



TEST REPORT

Reference No...... : WTX22X08156831W001
Applicant : Descartes Systems Group Inc.
Address : 105 Trafalgar Street, Floor 2, Nelson, Tasman 7011, New Zealand
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : COREInsight® Reader
Model No...... : RDR001
Standards : FCC PART 15.209
FCC Part 22, FCC Part 24E, FCC Part 27
Date of Receipt sample : 2022-08-01
Date of Test..... : 2022-08-01 to 2022-08-28
Date of Issue : 2022-08-28
Test Report Form No. : WTX_FCC PART25_001
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

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Tested by:

Mike Shi

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Silin Chen



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Report version

Version No.	Date of issue	Description
Rev.00	2022-08-28	Original
/	/	/

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	COREInsight® Reader
Trade Name:	/
Model No.:	RDR001
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Rated Voltage:	DC12V
Rated Current:	3A
Rated Power:	/
Power Adapter Model:	Model:ATS036T-W120V Input:100-240V ~ 50-60Hz 1A MAX Output:DC12V,3A
Lowest Internal Frequency:	24MHz
Highest Internal Frequency:	2480MHz
Classification of ITE:	Class B



1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.209: Radiated emission limits; general requirements.

FCC Rules Part 22: Private Land Mobile Radio Services.

FCC Rules Part 24: Public Mobile Services.

FCC Rules Part 27: Miscellaneous Wireless Communications Services.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.



1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List			
Test Mode	Description	Remark	Power Supply Mode
TM1	BLE 2440MHz	Radiated spurious emissions;	DC12V, 3A
TM2	LTE Band 2	Radiated spurious emissions;	DC12V, 3A
TM3	LTE Band 4	Radiated spurious emissions;	DC12V, 3A
TM4	LTE Band 5	Radiated spurious emissions;	DC12V, 3A
TM5	LTE Band 12	Radiated spurious emissions;	DC12V, 3A
TM6	LTE Band 13	Radiated spurious emissions;	DC12V, 3A
TM7	LTE Band 2 & BLE 2440MHz	Radiated spurious emissions; Co-location	DC12V, 3A
TM8	LTE Band 4 & BLE 2440MHz	Radiated spurious emissions; Co-location	DC12V, 3A
TM9	LTE Band 5 & BLE 2440MHz	Radiated spurious emissions; Co-location	DC12V, 3A
TM10	LTE Band 12 & BLE 2440MHz	Radiated spurious emissions; Co-location	DC12V, 3A
TM11	LTE Band 13 & BLE 2440MHz	Radiated spurious emissions; Co-location	DC12V, 3A



EUT Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	With / Without Chip
DC Cable	1.5	Unshielded	Without Ferrite	/

Special Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	With / Without Chip
/	/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

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1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Transmitter Spurious Emissions	Radiated	30-200MHz ±4.52dB
		0.2-1GHz ±5.56dB
		1-6GHz ±3.84dB
		6-30GHz ±3.92dB

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1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2022-03-22	2023-03-21
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2022-03-22	2023-03-21
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2022-03-25	2023-03-24
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2022-03-22	2023-03-21
SMET-1313	Spectrum Analyzer	Agilent	N9020A	MY54320548	2022-03-22	2023-03-21
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2022-03-22	2023-03-21
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2022-03-22	2023-03-21
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2022-03-22	2023-03-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/
☒ Chamber A: Below 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2022-01-07	2023-01-06
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2023-03-19
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-20	2023-03-19
☒ Chamber A: Above 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2022-03-22	2023-03-21
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91705	2021-04-27	2023-04-26



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SEMT-1216	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2022-03-25	2023-03-24
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2022-03-22	2023-03-21
☐ Chamber B:Below 1GHz						
SEMT-1068	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
SEMT-1067	Amplifier	Agilent	8447D	2944A10179	2022-03-22	2023-03-21
SEMT-1066	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2022-03-22	2023-03-21
☐ Chamber C:Below 1GHz						
SEMT-1319	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2022-01-07	2023-01-06
SEMT-1343	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2023-05-27
SEMT-1333	Amplifier	HP	8447F	2944A03869	2022-03-22	2023-03-21
☐ Conducted Room 1#						
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2022-03-21	2023-03-20
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2022-03-25	2023-03-24
SEMT-1003	AC LISN	Schwarz beck	NSLK8126	8126-224	2022-03-22	2023-03-21
☐ Conducted Room 2#						
SEMT-1334	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2022-03-22	2023-03-21
SEMT-1336	LISN	Rohde & Schwarz	ENV 216	100097	2022-03-22	2023-03-21

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing.



2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.209(a)	Radiated Spurious Emissions	Compliant
§22.917(a), §24.238(a), §27.53(h)	Spurious Radiation Emissions	Compliant

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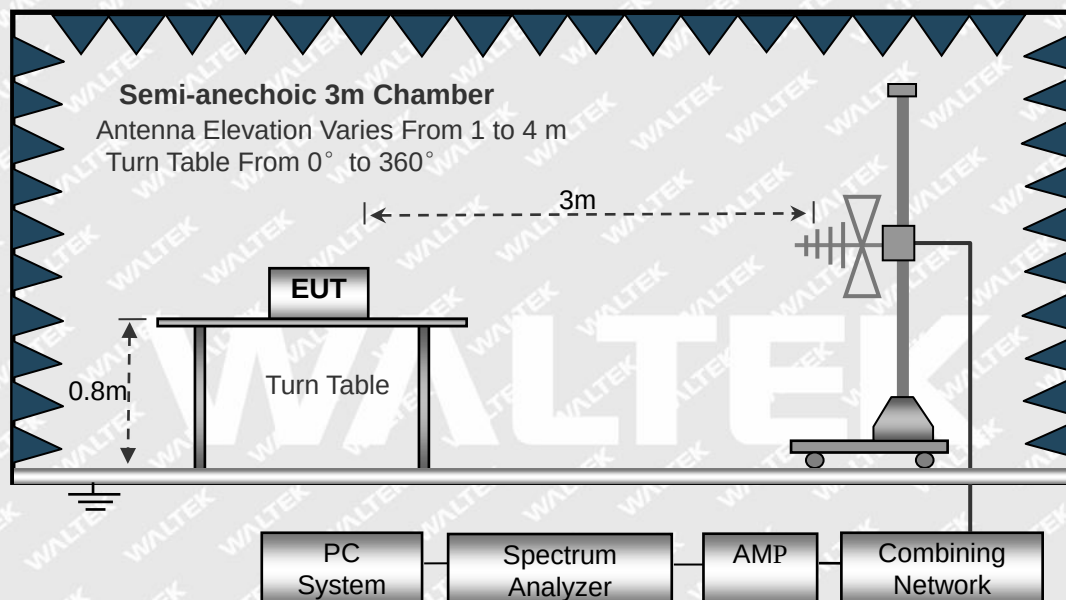


3. RADIATED SPURIOUS EMISSIONS

3.1 Test Procedure

The specification used was to FCC Part 15.209(a) & FCC Part 22.917(a) & FCC Part 24.238(a) & FCC Part 27.53(h) limits. The limits used for FCC Part 15.209 for spurious emissions are (74dBuV/m peak & 54dBuV/m average) and the limits used for FCC Part 22.917(a) & 24.238(a) & 27.53(h), are 82.2dBuV/m. (For more information see clause (3) in FCC Part 22.917(a) & 24.238(a) & 27.53(h).

3.2 Block Diagram of Test Setup





3.3 Test Receiver Setup

Frequency :9kHz-30MHz

RBW=10KHz,

VBW =30KHz

Sweep time= Auto

Trace = max hold

Detector function = peak

Frequency :30MHz-1GHz

RBW=120KHz,

VBW=300KHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency :Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Trace = max hold

Detector function = peak, AV

3.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15(or Part 25) Limit}$$

3.5 Environmental Conditions

Temperature:	22.5 °C
Relative Humidity:	54 %
ATM Pressure:	1011 mbar

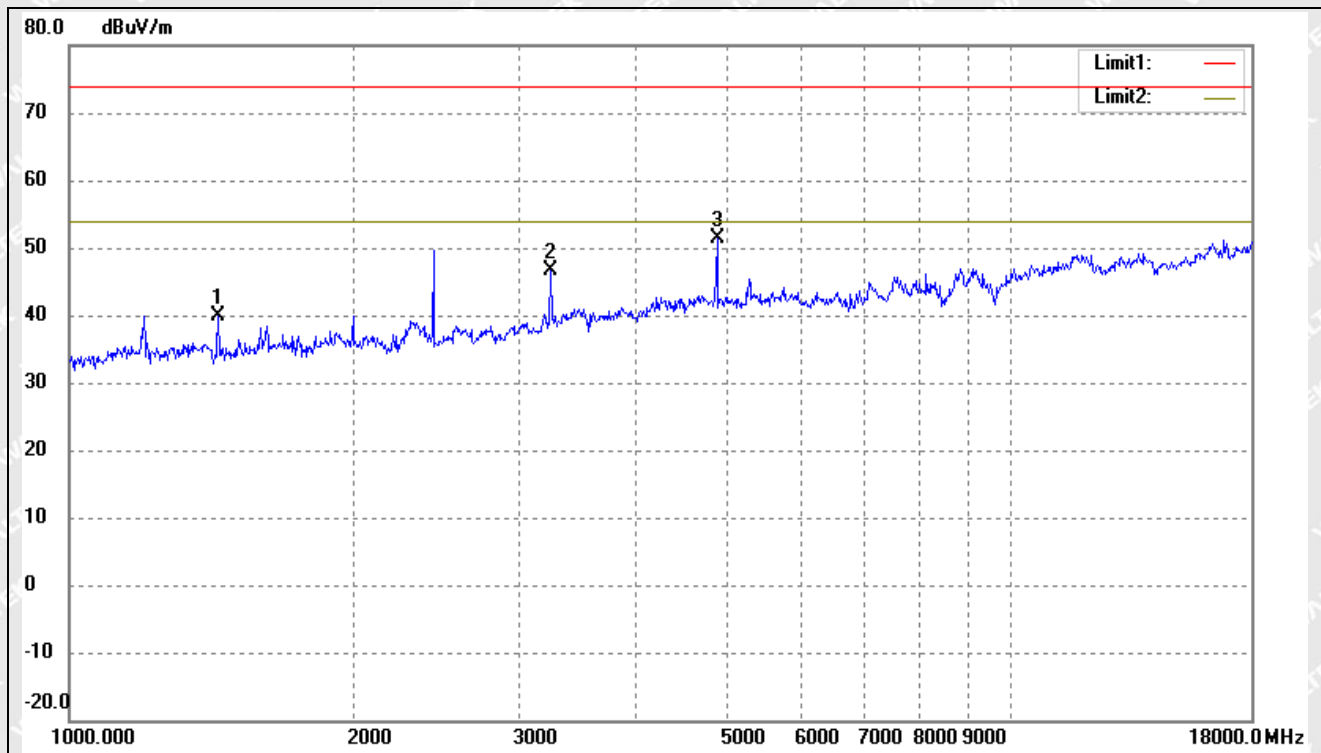
3.6 Summary of Test Results

Please find the results below:



Above 1GHz

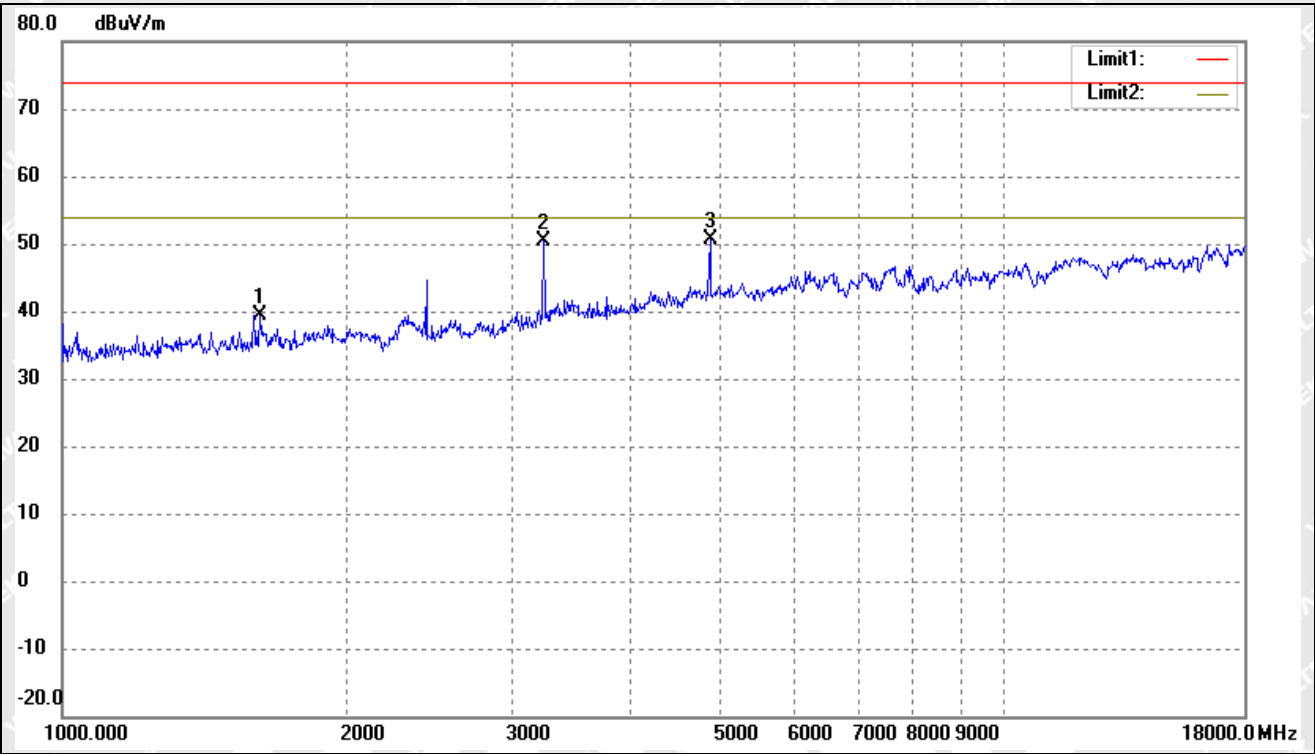
Test mode:	TM1	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1439.343	51.79	-11.85	39.94	74.00	-34.06	-	-	peak
2	3242.619	53.24	-6.59	46.65	74.00	-27.35	-	-	peak
3	4874.043	54.08	-2.73	51.35	74.00	-22.65	-	-	peak



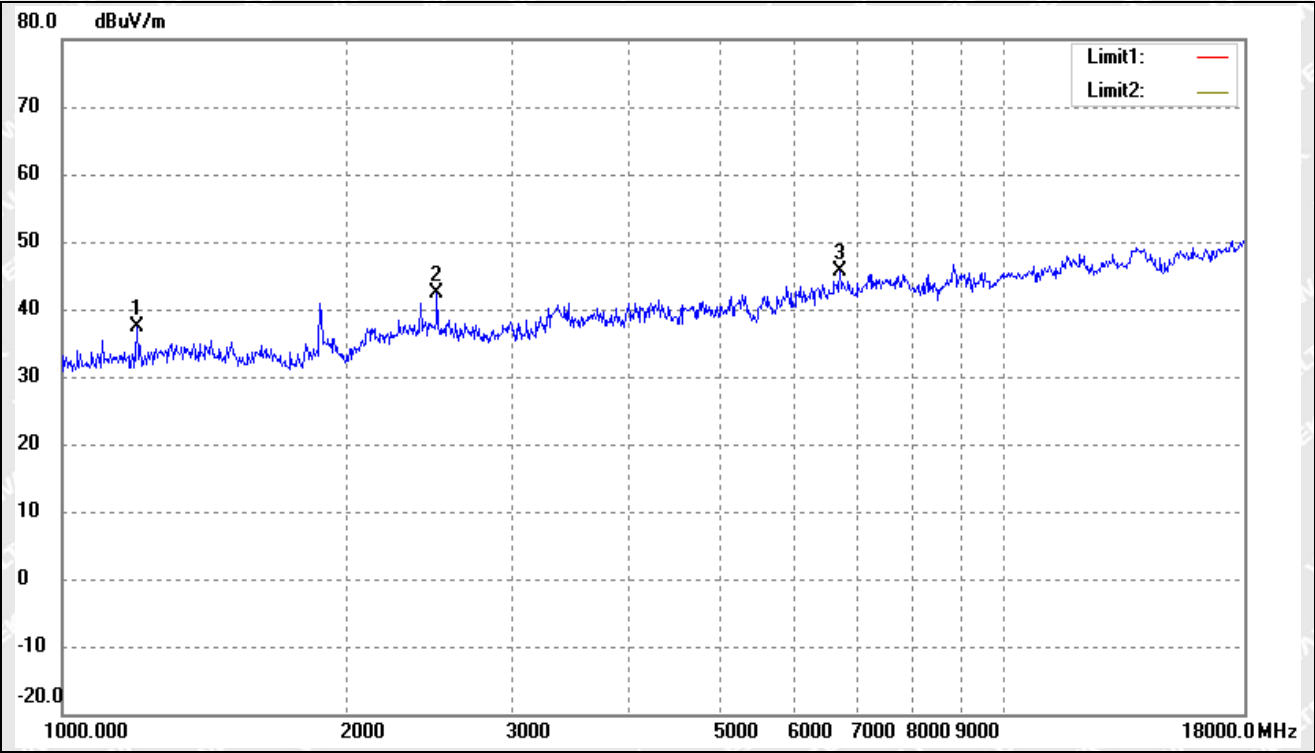
Test mode:	TM1	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1620.431	50.51	-11.18	39.33	74.00	-34.67	-	-	peak
2	3242.619	56.98	-6.59	50.39	74.00	-23.61	-	-	peak
3	4874.043	53.45	-2.73	50.72	74.00	-23.28	-	-	peak



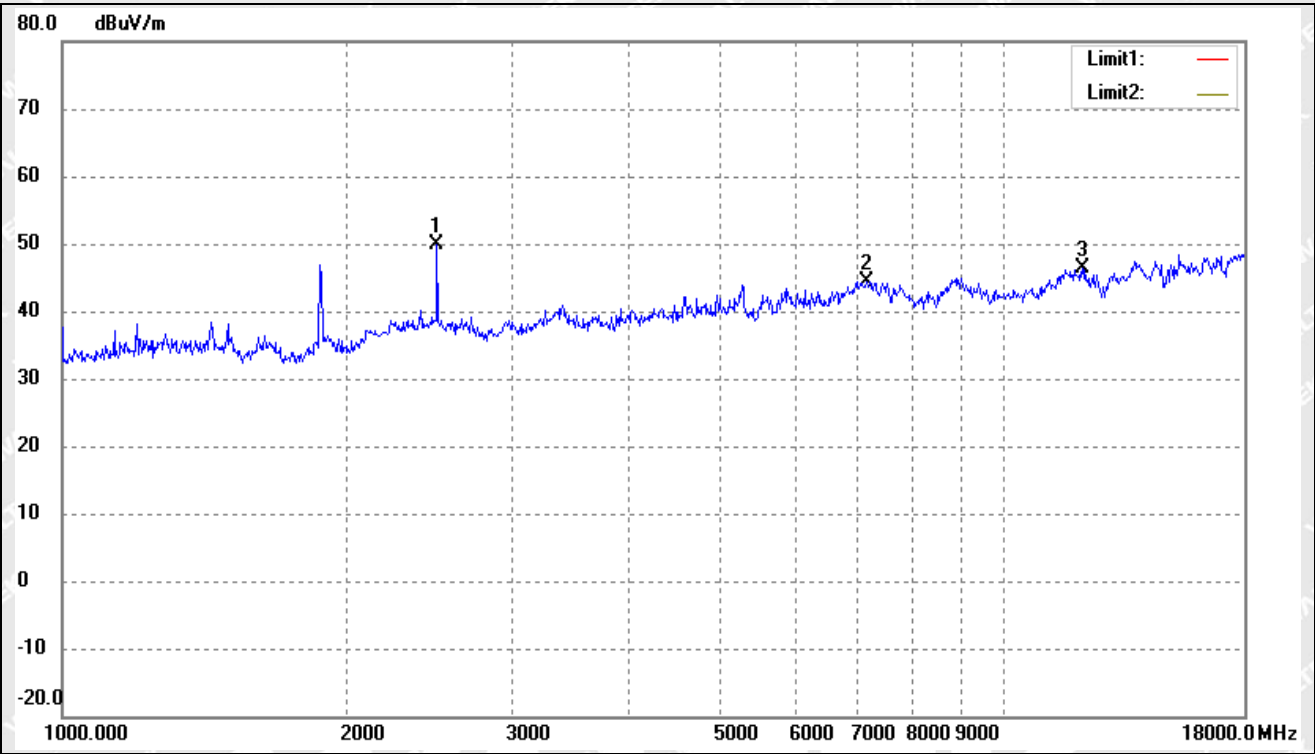
Test mode:	TM2	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1199.726	50.24	-12.90	37.34	82.2	-44.86	-	-	peak
2	2499.893	50.51	-8.08	42.43	82.2	-39.77	-	-	peak
3	6698.373	44.45	1.26	45.71	82.2	-36.49	-	-	peak



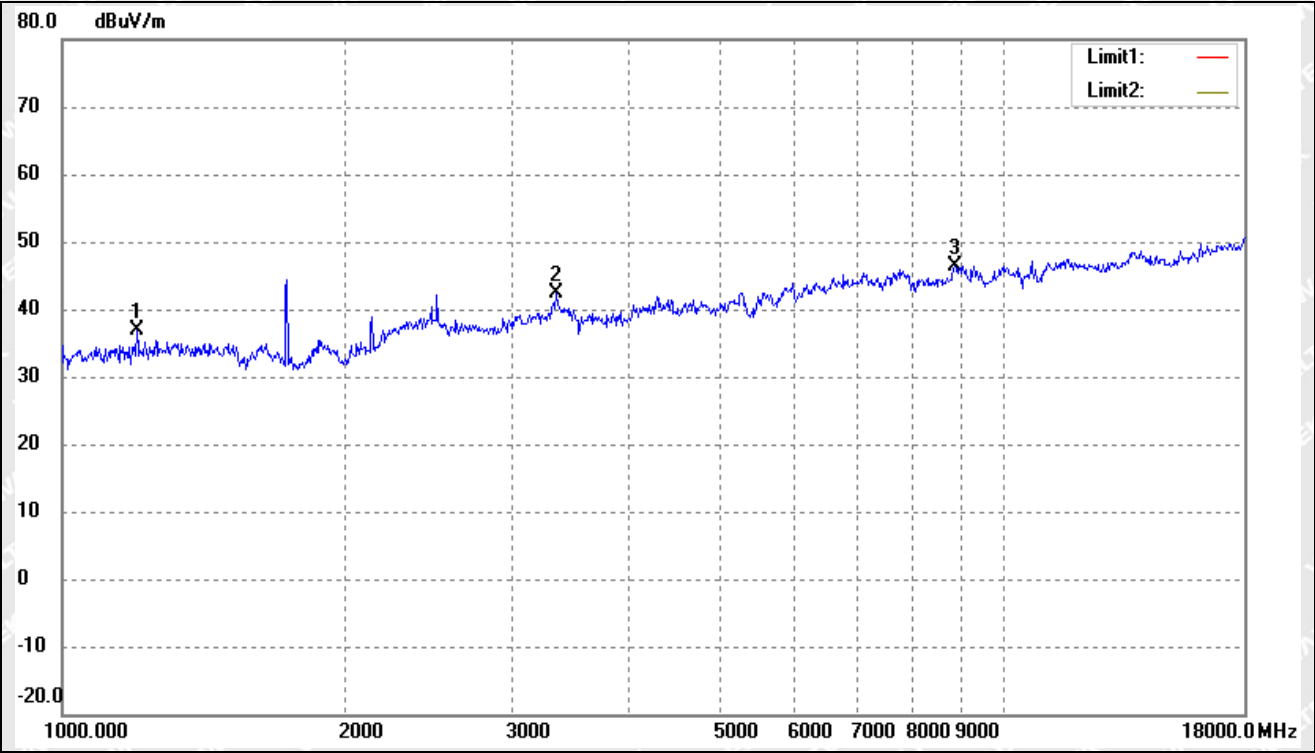
Test mode:	TM2	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	2499.893	58.06	-8.08	49.98	82.2	-32.22	-	-	peak
2	7138.144	41.98	2.48	44.46	82.2	-37.74	-	-	peak
3	12114.352	36.48	9.80	46.28	82.2	-35.92	-	-	peak



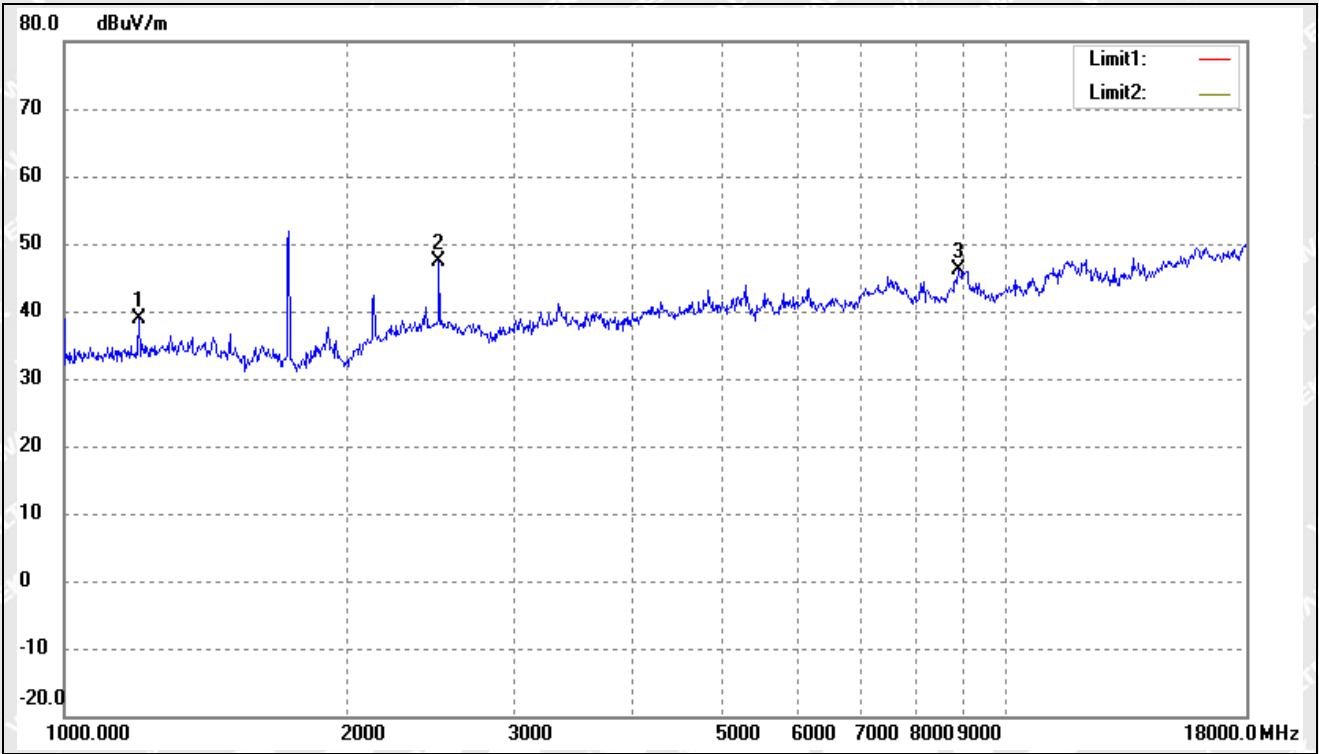
Test mode:	TM3	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1199.726	49.71	-12.90	36.81	82.2	-45.39	-	-	peak
2	3347.371	48.55	-6.20	42.35	82.2	-39.85	-	-	peak
3	8866.061	40.76	5.58	46.34	82.2	-35.86	-	-	peak



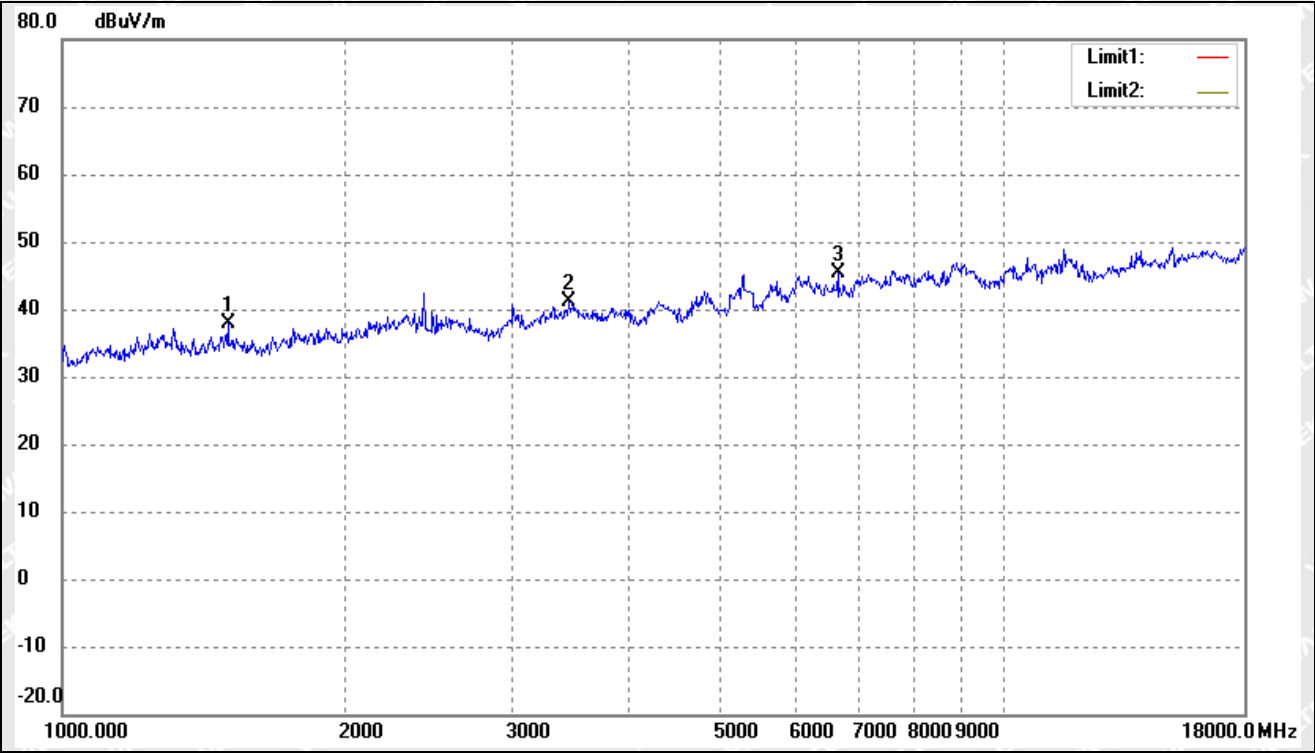
Test mode:	TM3	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1199.726	51.77	-12.90	38.87	82.2	-43.33	-	-	peak
2	2499.893	55.41	-8.08	47.33	82.2	-34.87	-	-	peak
3	8891.725	40.29	5.75	46.04	82.2	-36.16	-	-	peak



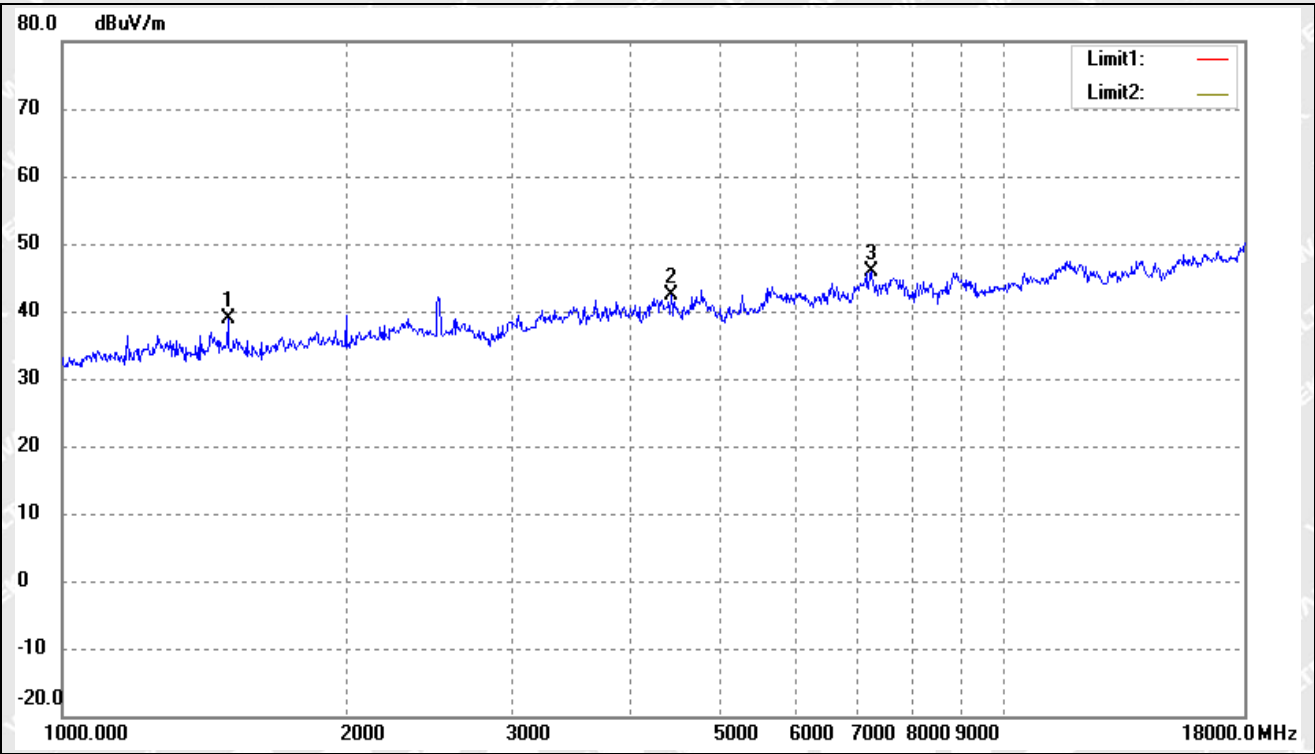
Test mode:	TM4	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1498.781	49.48	-11.58	37.90	82.2	-44.30	-	-	peak
2	3455.508	46.87	-5.81	41.06	82.2	-41.14	-	-	peak
3	6659.763	44.15	1.16	45.31	82.2	-36.89	-	-	peak



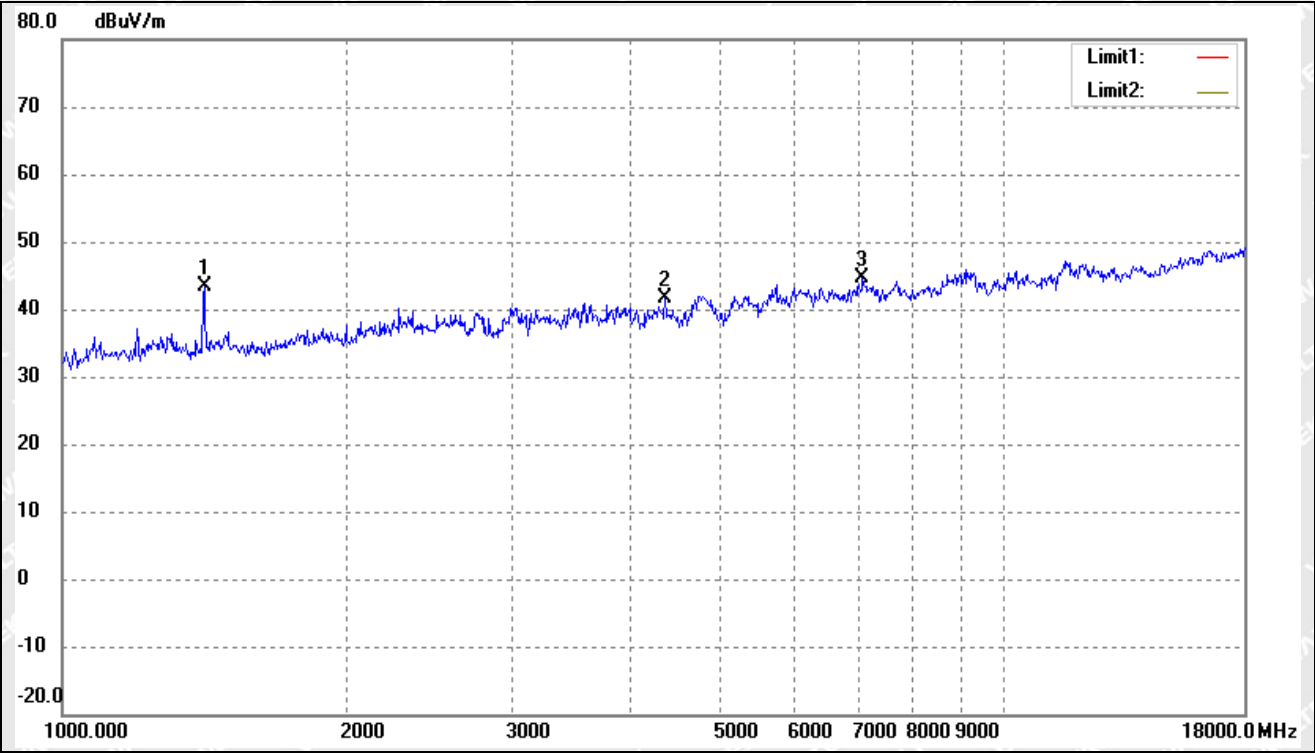
Test mode:	TM4	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1498.781	50.43	-11.58	38.85	82.2	-43.35	-	-	peak
2	4430.628	46.18	-3.76	42.42	82.2	-39.78	-	-	peak
3	7221.150	43.21	2.78	45.99	82.2	-36.21	-	-	peak



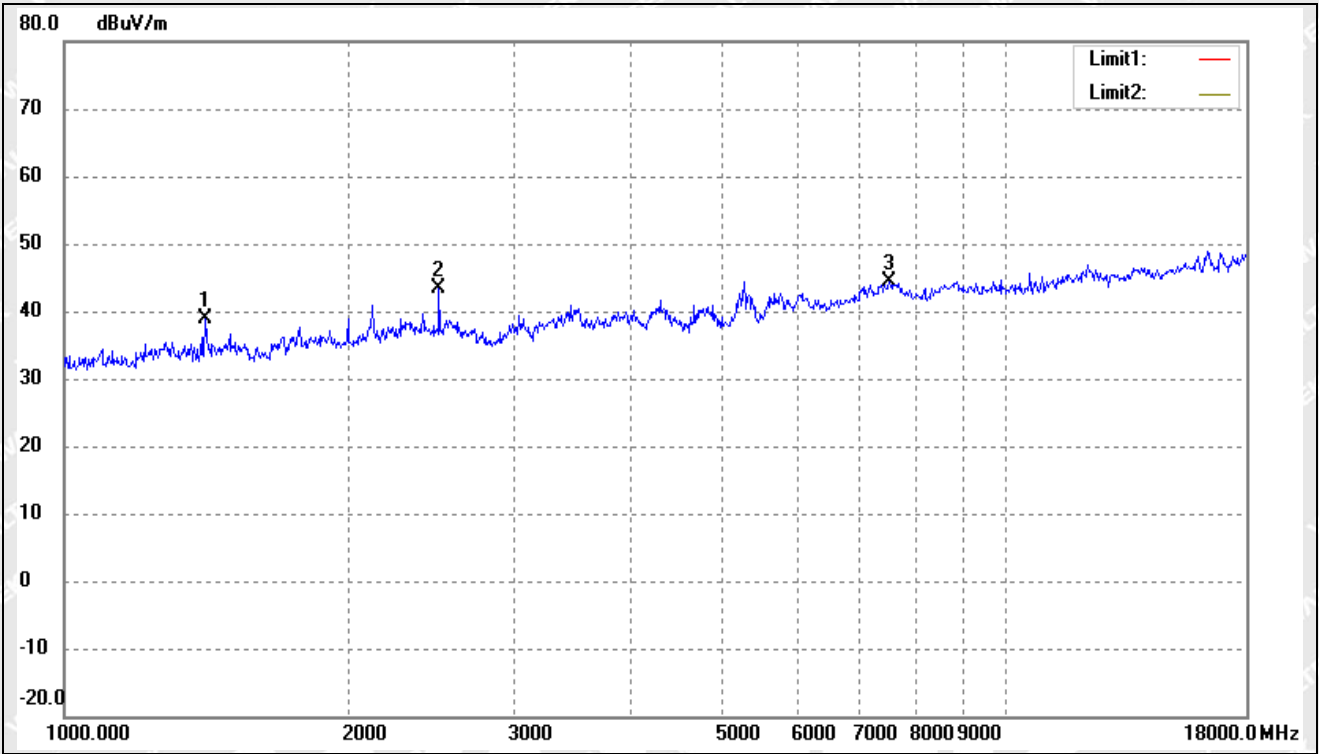
Test mode:	TM5	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1414.597	55.41	-11.96	43.45	82.2	-38.75	-	-	peak
2	4367.058	45.65	-4.05	41.60	82.2	-40.60	-	-	peak
3	7076.516	42.30	2.27	44.57	82.2	-37.63	-	-	peak



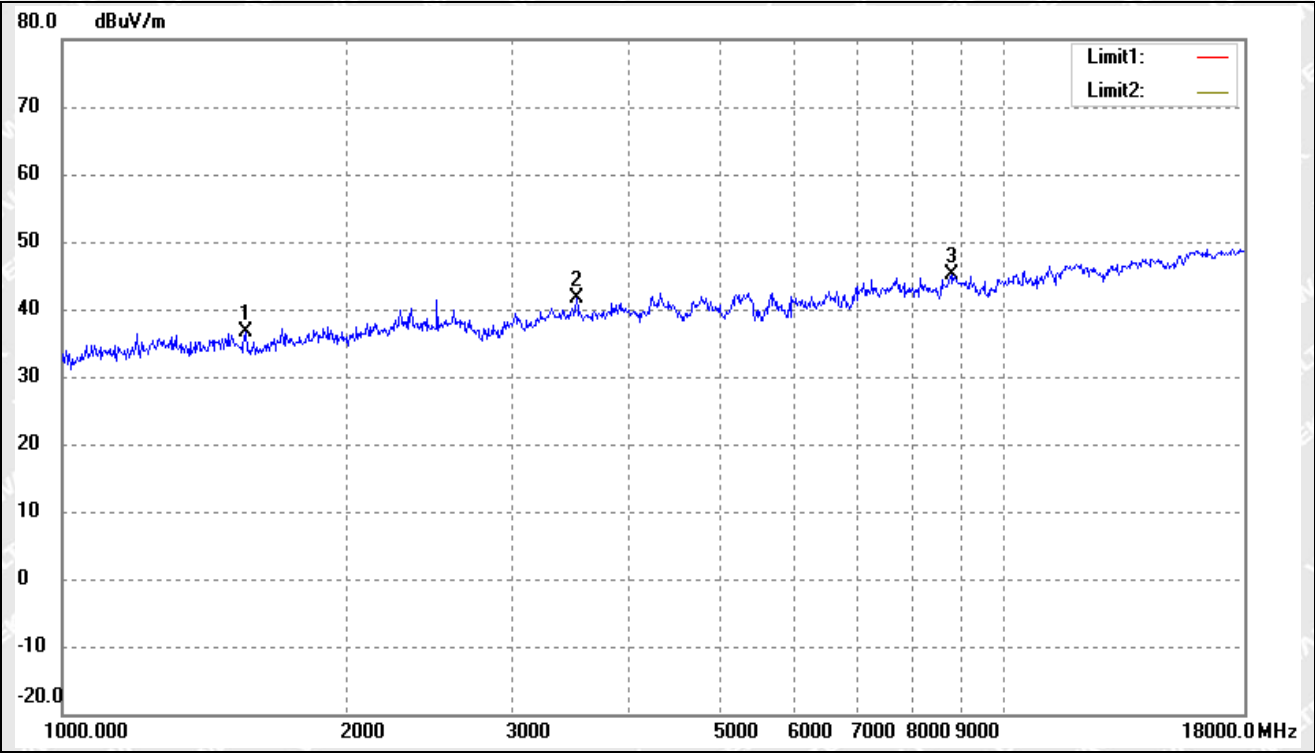
Test mode:	TM5	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1410.514	50.79	-11.97	38.82	82.2	-43.38	-	-	peak
2	2499.893	51.47	-8.08	43.39	82.2	-38.81	-	-	peak
3	7519.348	40.57	3.73	44.30	82.2	-37.90	-	-	peak



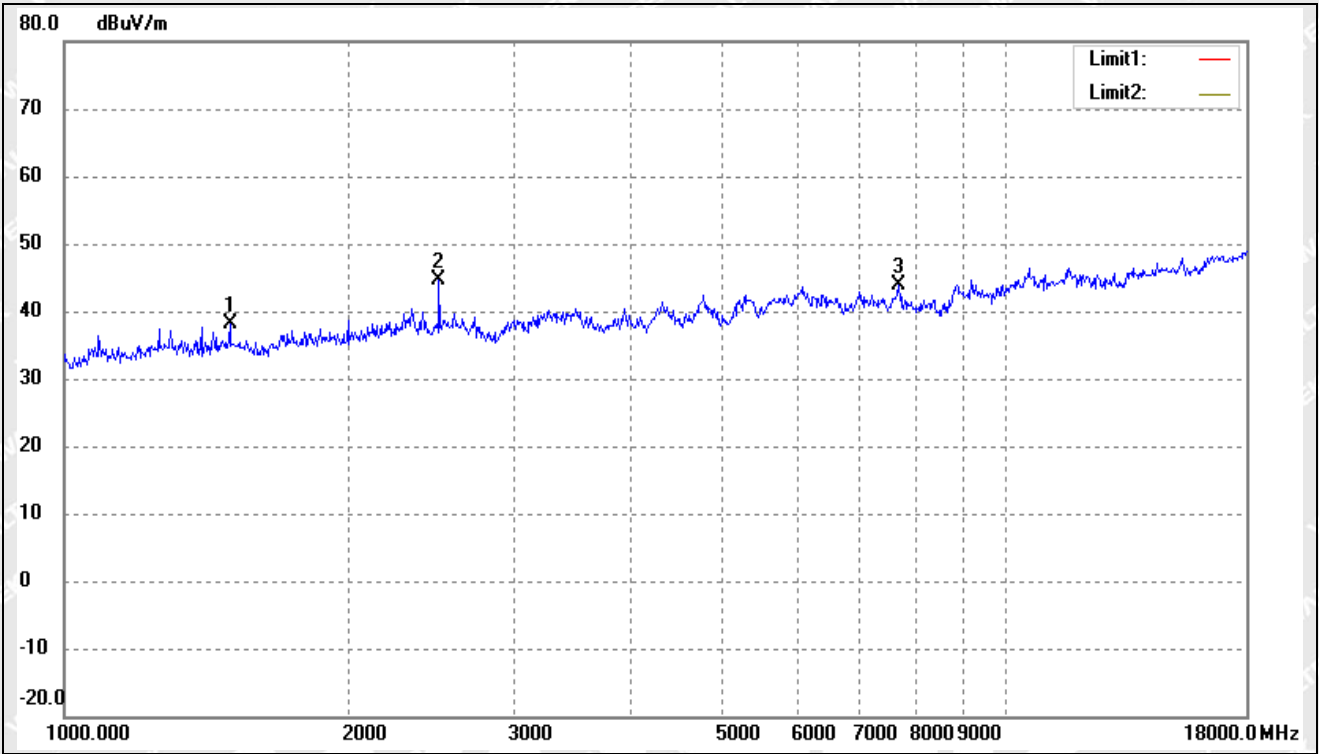
Test mode:	TM6	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1565.191	48.03	-11.36	36.67	82.2	-45.53	-	-	peak
2	3515.957	47.40	-5.65	41.75	82.2	-40.45	-	-	peak
3	8789.515	40.10	5.07	45.17	82.2	-37.03	-	-	peak



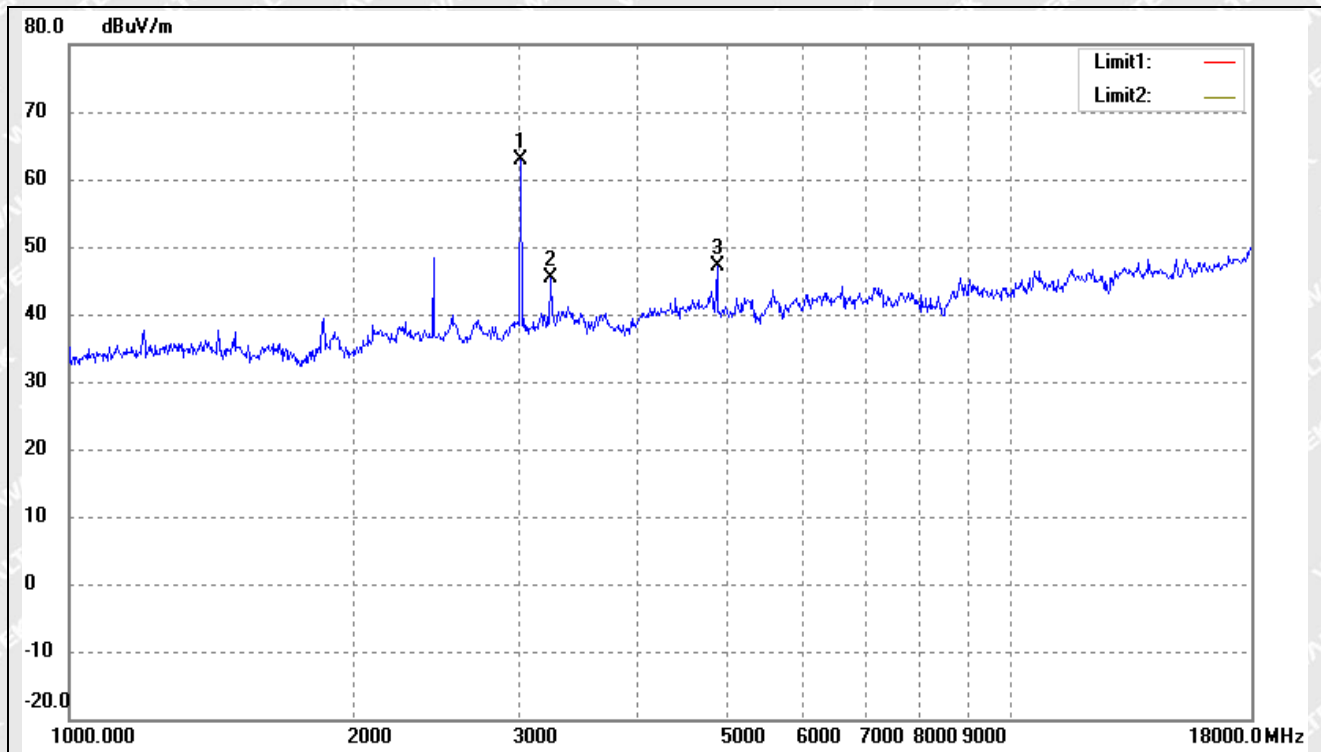
Test mode:	TM6	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1498.781	49.71	-11.58	38.13	82.2	-44.07	-	-	peak
2	2499.893	52.81	-8.08	44.73	82.2	-37.47	-	-	peak
3	7695.244	40.30	3.46	43.76	82.2	-38.44	-	-	peak



Test mode:	TM7	Polarity:	Horizontal
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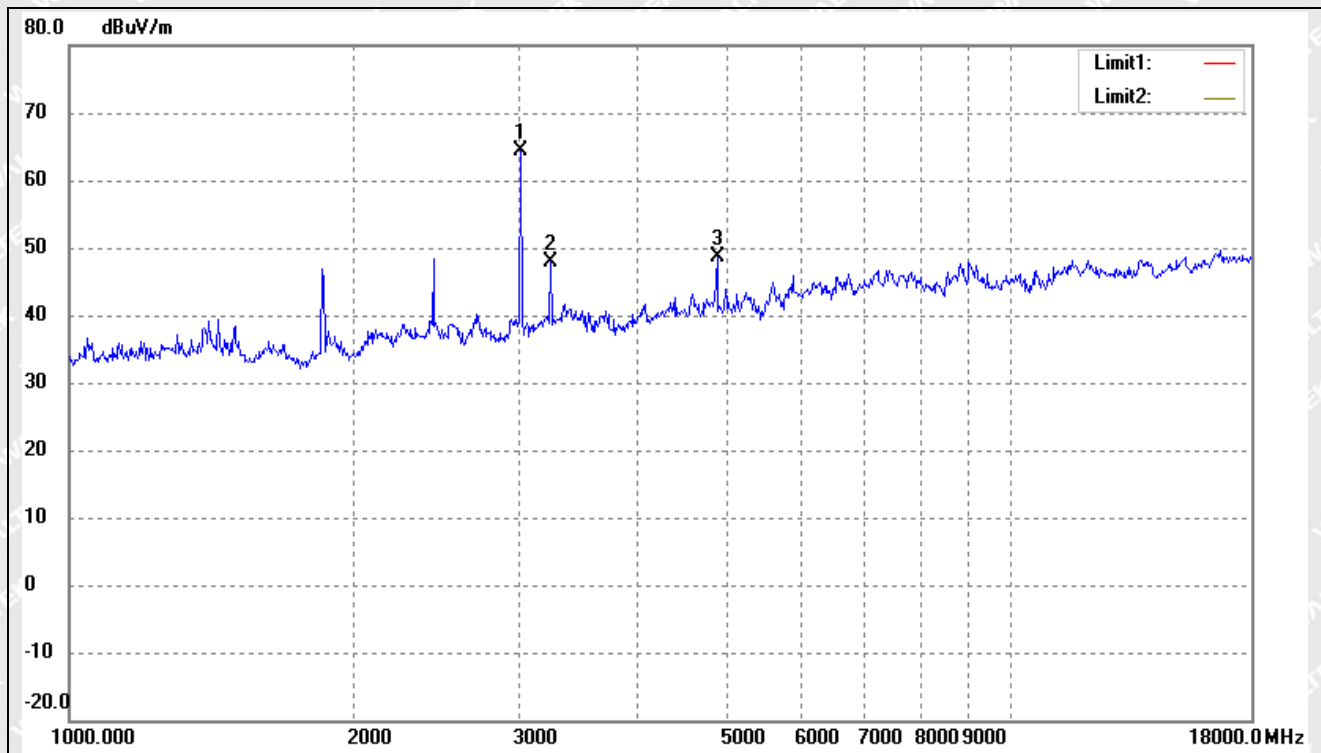


No.	Frequency	Reading	Correct	Result	Limit 15.209	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	3016.575	70.17	-7.41	62.76	82.2	-19.44	-	-	peak
2	3242.619	52.04	-6.59	45.45	74.00	-28.55	-	-	peak
3	4874.043	49.93	-2.73	47.20	74.00	-26.80	-	-	peak

No.	Frequency	Reading	Correct	Result	Limit 24.229	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	3016.575	70.17	-7.41	62.76	82.2	-19.44	-	-	peak
2	3242.619	52.04	-6.59	45.45	82.2	-36.75	-	-	peak
3	4874.043	49.93	-2.73	47.2	82.2	-35.00	-	-	peak



Test mode:	TM7	Polarity:	Vertical
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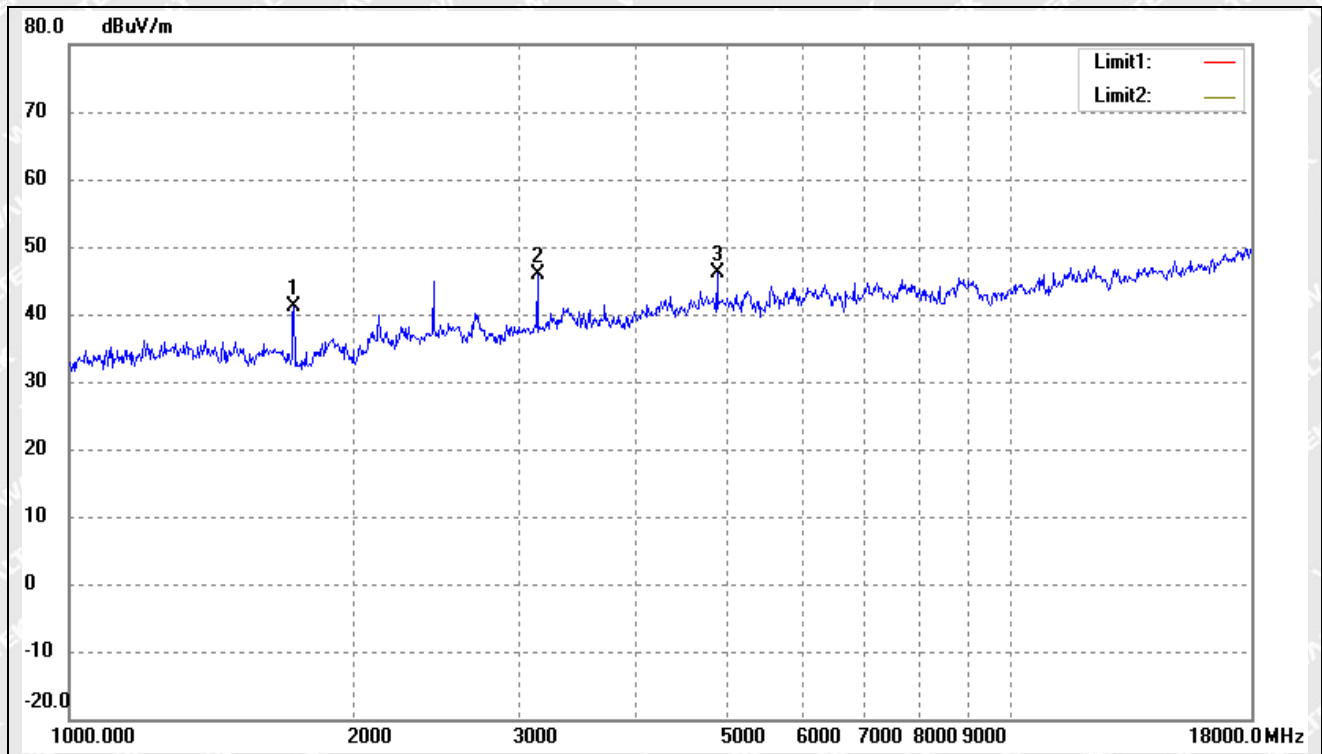


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	3016.575	71.72	-7.41	64.31	82.2	-17.89	-	-	peak
2	3242.619	54.59	-6.59	48.00	74.00	-26.00	-	-	peak
3	4874.043	51.40	-2.73	48.67	74.00	-25.33	-	-	peak

No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	3016.575	71.72	-7.41	64.31	82.2	-17.89	-	-	peak
2	3242.619	54.59	-6.59	48	82.2	-34.20	-	-	peak
3	4874.043	51.4	-2.73	48.67	82.2	-33.53	-	-	peak



Test mode:	TM8	Polarity:	Horizontal
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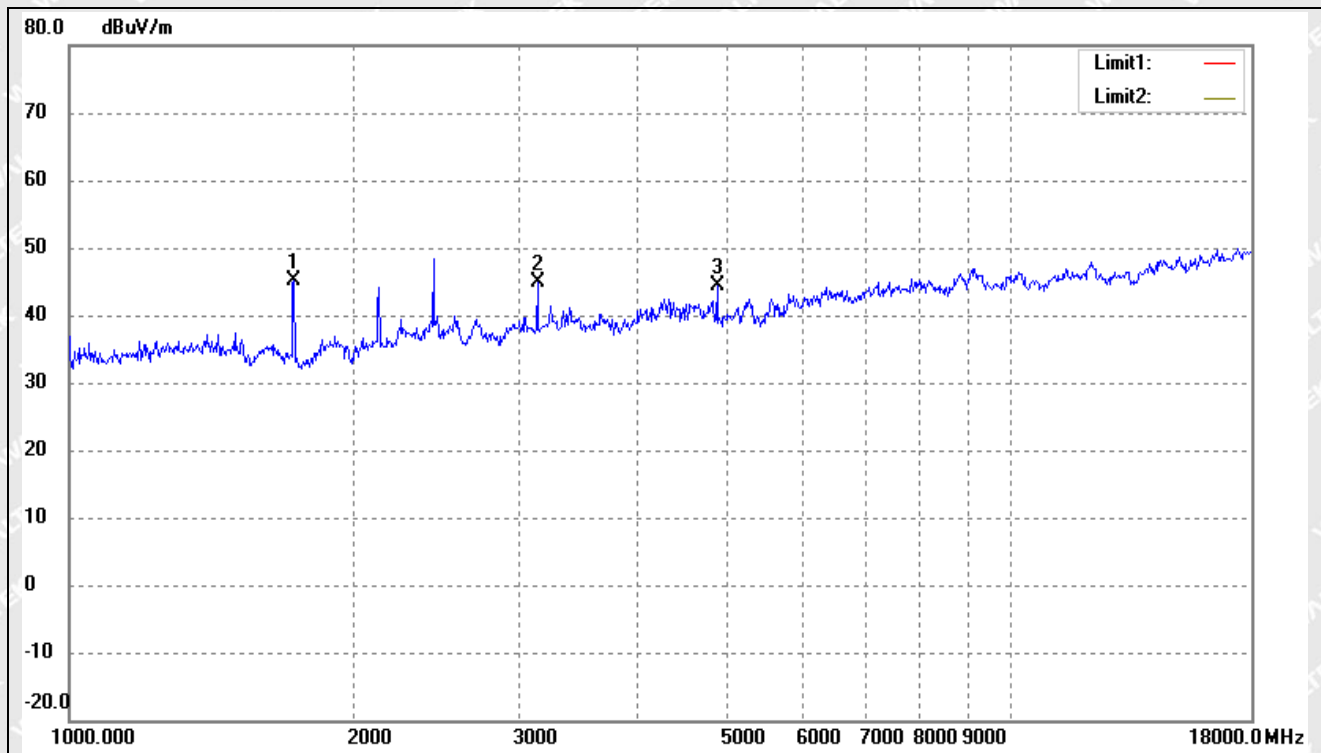


No.	Frequency	Reading	Correct	Result	Limit 15.209	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1731.816	51.95	-10.80	41.15	74.00	-32.85	-	-	peak
2	3141.144	52.73	-6.96	45.77	74.00	-28.23	-	-	peak
3	4874.043	48.85	-2.73	46.12	74.00	-27.88	-	-	peak

No.	Frequency	Reading	Correct	Result	Limit 27.5	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1731.816	51.95	-10.8	41.15	82.2	-41.05	-	-	peak
2	3141.144	52.73	-6.96	45.77	82.2	-36.43	-	-	peak
3	4874.043	48.85	-2.73	46.12	82.2	-36.08	-	-	peak



Test mode:	TM8	Polarity:	Vertical
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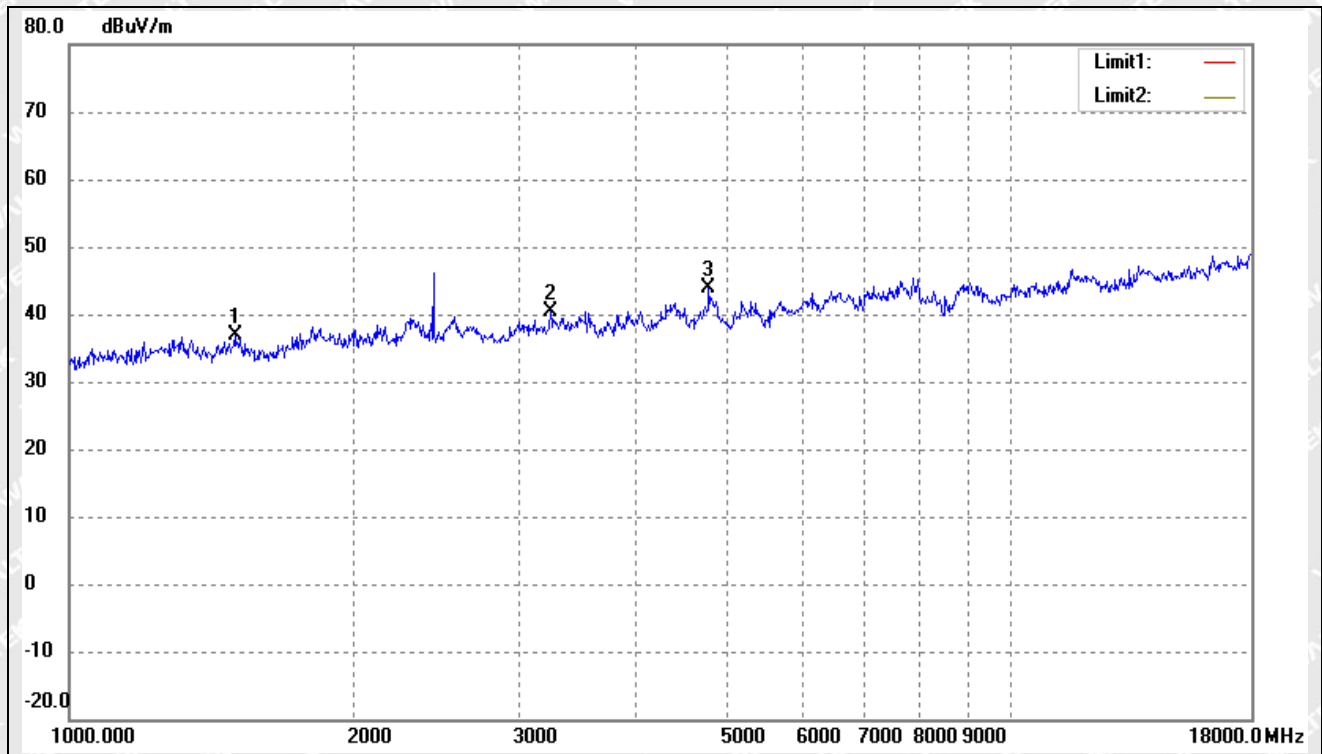


No.	Frequency	Reading	Correct	Result	Limit 15.209	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1731.816	56.03	-10.80	45.23	74.00	-28.77	-	-	peak
2	3141.144	51.83	-6.96	44.87	74.00	-29.13	-	-	peak
3	4874.043	47.07	-2.73	44.34	74.00	-29.66	-	-	peak

No.	Frequency	Reading	Correct	Result	Limit 27.5	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1731.816	56.03	-10.8	45.23	82.2	-36.97	-	-	peak
2	3141.144	51.83	-6.96	44.87	82.2	-37.33	-	-	peak
3	4874.043	47.07	-2.73	44.34	82.2	-37.86	-	-	peak



Test mode:	TM9	Polarity:	Horizontal
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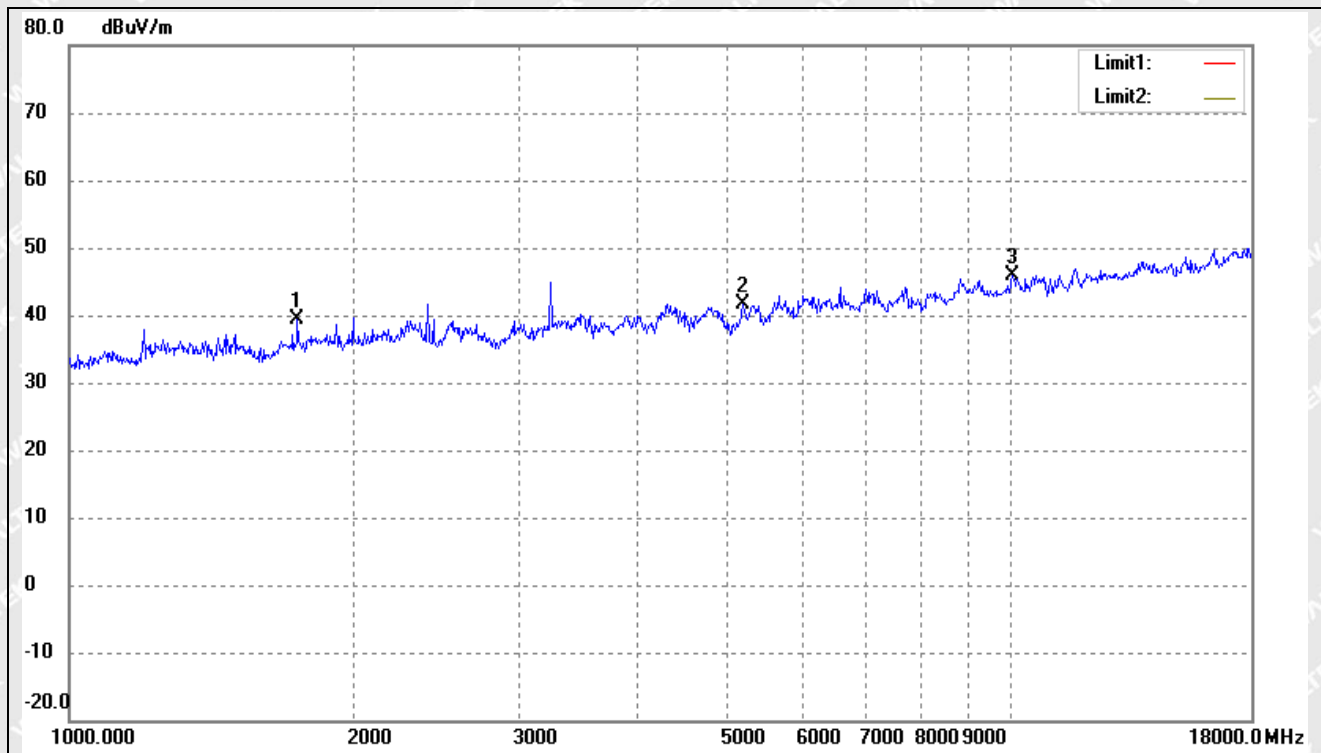


No.	Frequency	Reading	Correct	Result	Limit 15.209	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1498.781	48.39	-11.58	36.81	74.00	-37.19	-	-	peak
2	3242.619	47.08	-6.59	40.49	74.00	-33.51	-	-	peak
3	4776.419	46.75	-2.91	43.84	74.00	-30.16	-	-	peak

No.	Frequency	Reading	Correct	Result	Limit 22.905	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1498.781	48.39	-11.58	36.81	74.00	-37.19	-	-	peak
2	3242.619	47.08	-6.59	40.49	74.00	-33.51	-	-	peak
3	4776.419	46.75	-2.91	43.84	74.00	-30.16	-	-	peak



Test mode:	TM9	Polarity:	Vertical
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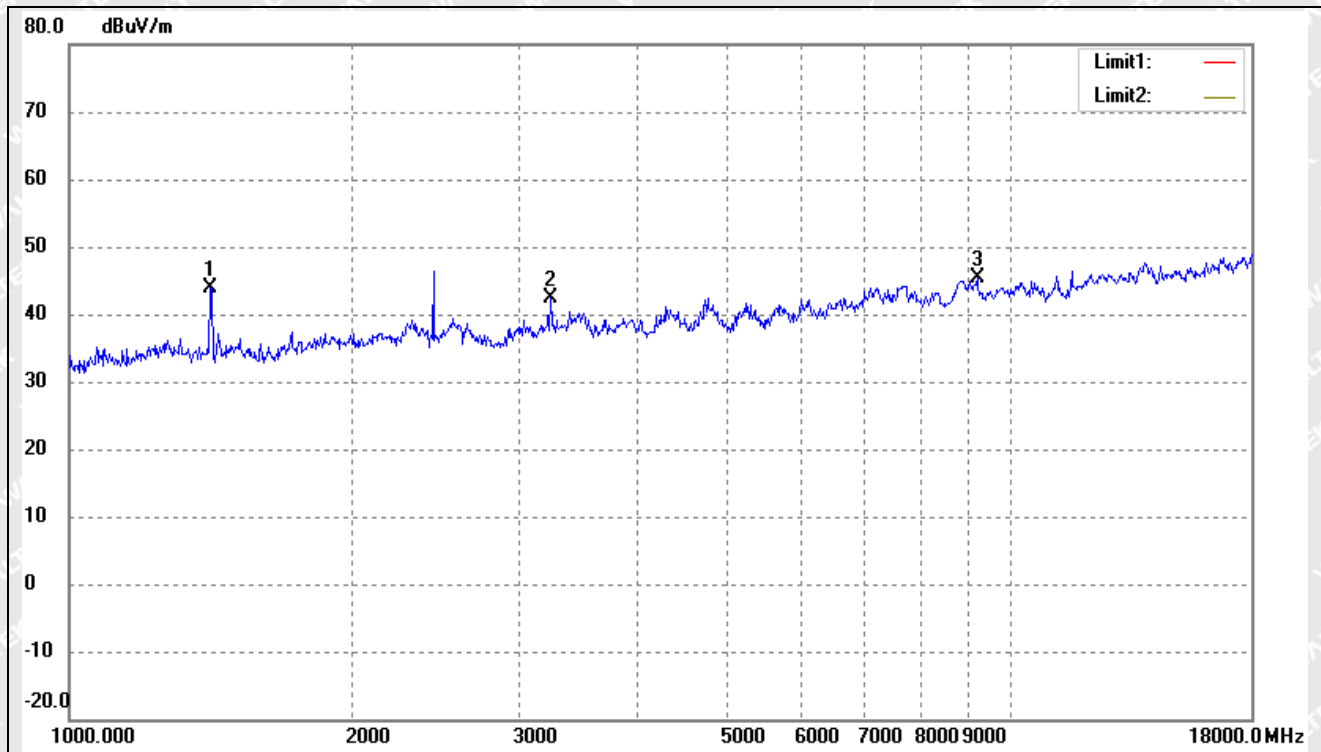


No.	Frequency	Reading	Correct	Result	Limit 15.209	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1746.898	50.16	-10.76	39.40	74.00	-34.60	-	-	peak
2	5194.041	43.81	-2.15	41.66	74.00	-32.34	-	-	peak
3	10039.393	39.80	6.11	45.91	74.00	-28.09	-	-	peak

No.	Frequency	Reading	Correct	Result	Limit 22.905	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1746.898	50.16	-10.76	39.40	82.20	-42.80	-	-	peak
2	5194.041	43.81	-2.15	41.66	82.20	-40.54	-	-	peak
3	10039.393	39.80	6.11	45.91	82.20	-36.29	-	-	peak



Test mode:	TM10	Polarity:	Horizontal
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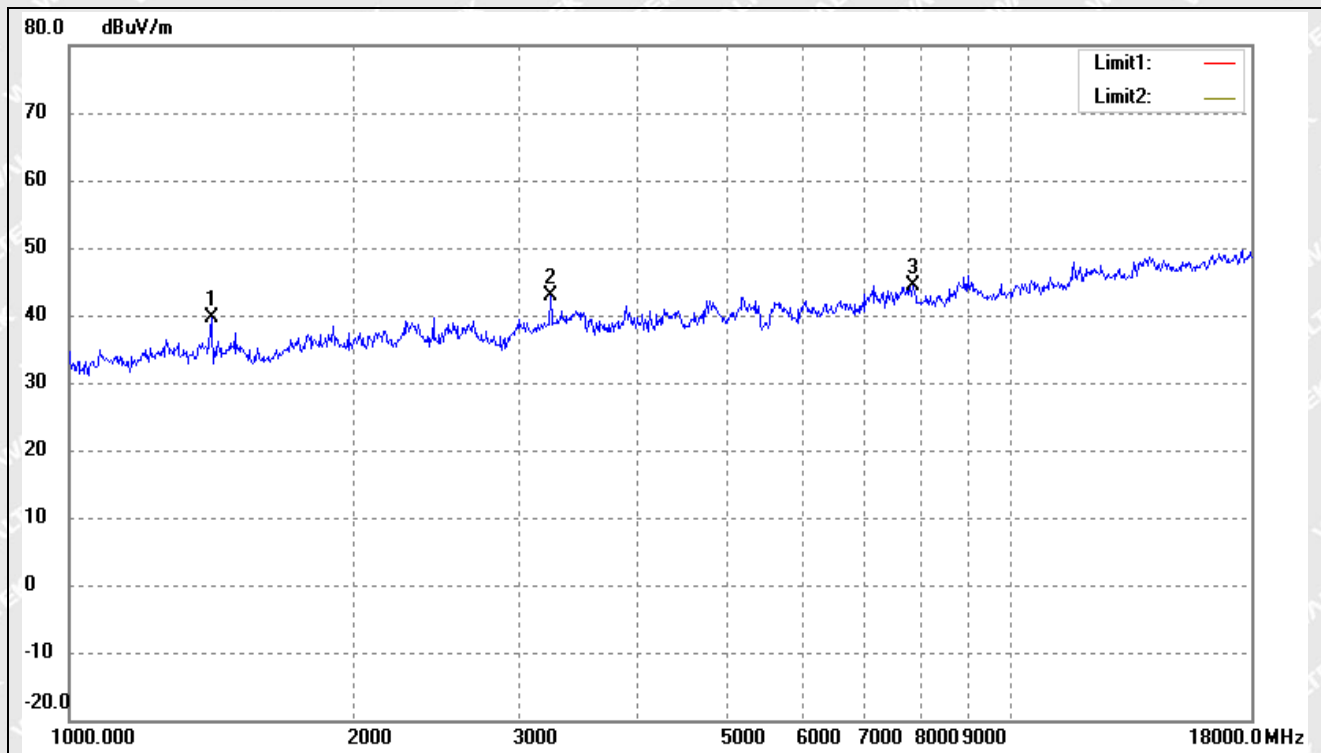


No.	Frequency	Reading	Correct	Result	Limit 15.209	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1410.514	55.76	-11.97	43.79	74.00	-30.21	-	-	peak
2	3242.619	49.00	-6.59	42.41	74.00	-31.59	-	-	peak
3	9205.540	39.63	5.68	45.31	74.00	-28.69	-	-	peak

No.	Frequency	Reading	Correct	Result	Limit 27.5	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1410.514	55.76	-11.97	43.79	82.20	-38.41	-	-	peak
2	3242.619	49.00	-6.59	42.41	82.20	-39.79	-	-	peak
3	9205.540	39.63	5.68	45.31	82.20	-36.89	-	-	peak



Test mode:	TM10	Polarity:	Vertical
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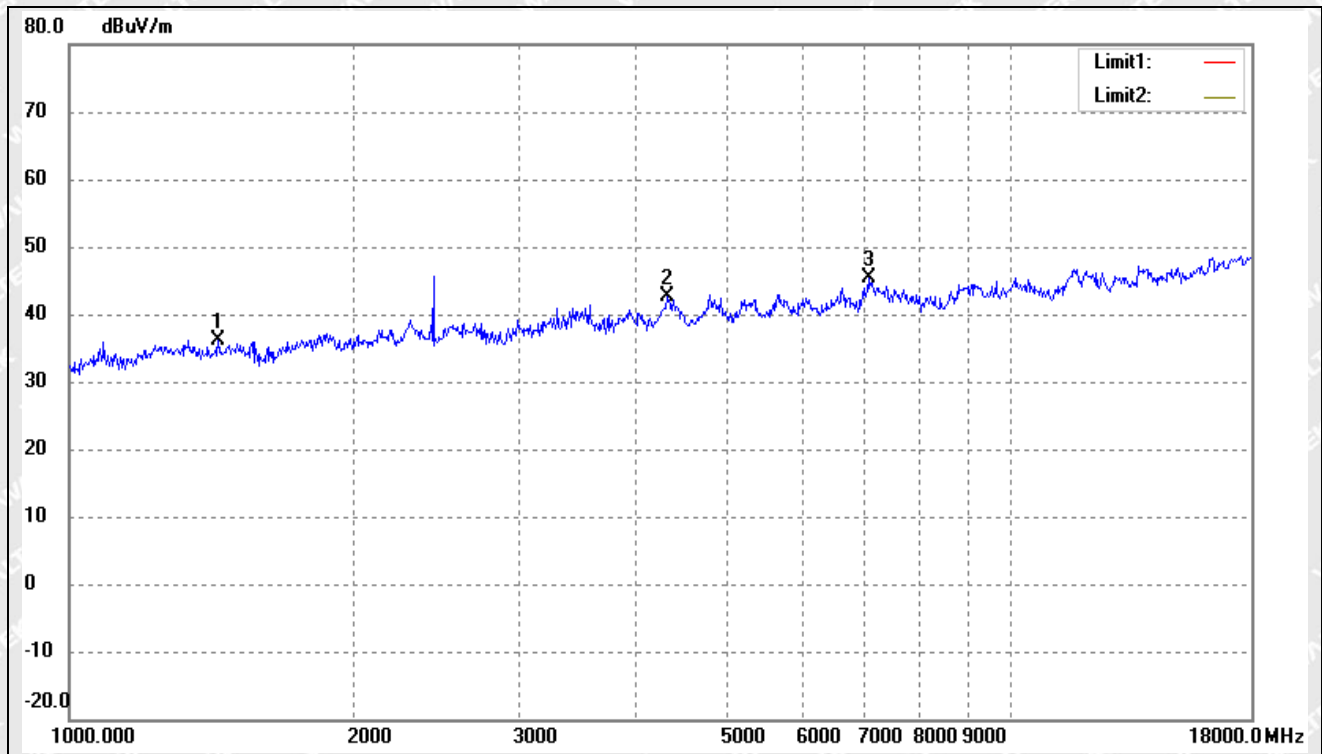


No.	Frequency	Reading	Correct	Result	Limit 15.209	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1414.597	51.66	-11.96	39.70	74.00	-34.30	-	-	peak
2	3242.619	49.42	-6.59	42.83	74.00	-31.17	-	-	peak
3	7875.254	41.18	3.19	44.37	74.00	-29.63	-	-	peak

No.	Frequency	Reading	Correct	Result	Limit 27.5	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1414.597	51.66	-11.96	39.70	82.20	-42.50	-	-	peak
2	3242.619	49.42	-6.59	42.83	82.20	-39.37	-	-	peak
3	7875.254	41.18	3.19	44.37	82.20	-37.83	-	-	peak



Test mode:	TM11	Polarity:	Horizontal
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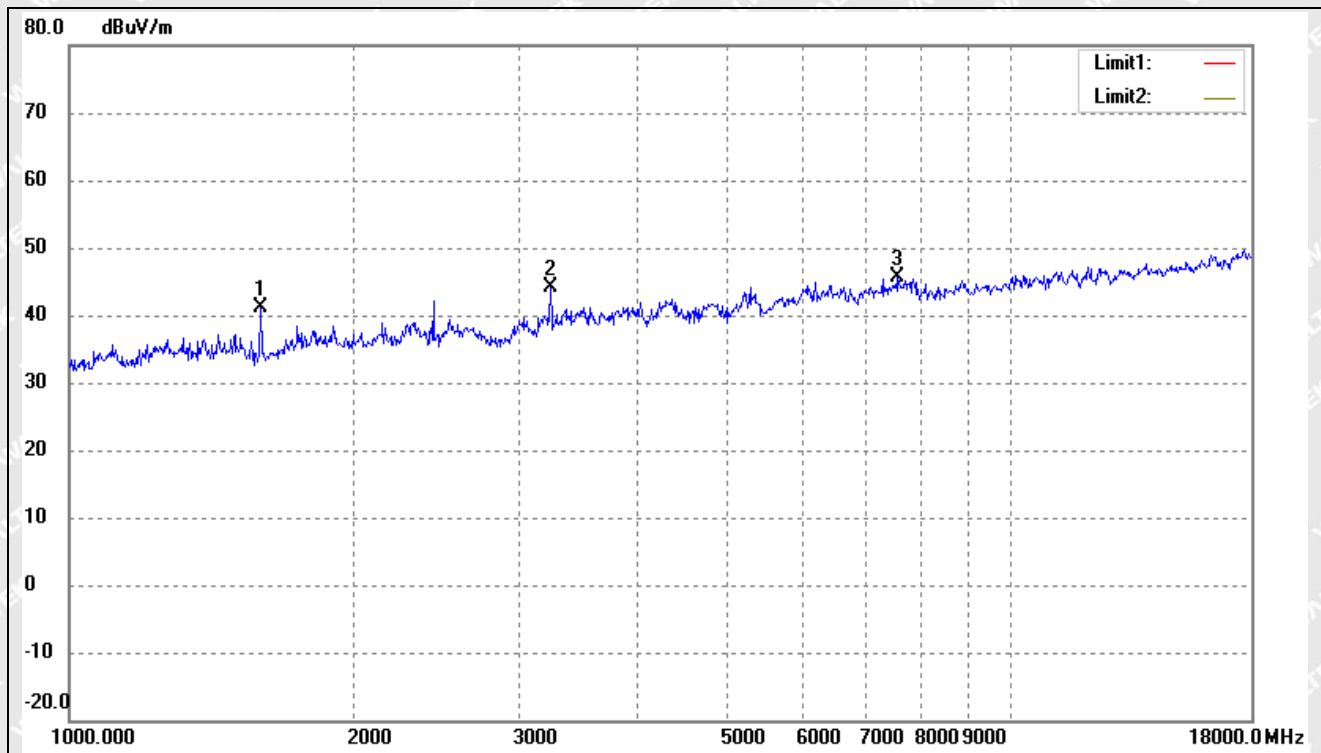


No.	Frequency	Reading	Correct	Result	Limit 15.209	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1439.343	48.00	-11.85	36.15	74.00	-37.85	-	-	peak
2	4316.859	46.84	-4.27	42.57	74.00	-31.43	-	-	peak
3	7056.092	43.10	2.20	45.30	74.00	-28.70	-	-	peak

No.	Frequency	Reading	Correct	Result	Limit 27.5	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1439.343	48.00	-11.85	36.15	82.20	-46.05	-	-	peak
2	4316.859	46.84	-4.27	42.57	82.20	-39.63	-	-	peak
3	7056.092	43.10	2.20	45.30	82.20	-36.90	-	-	peak



Test mode:	TM11	Polarity:	Vertical
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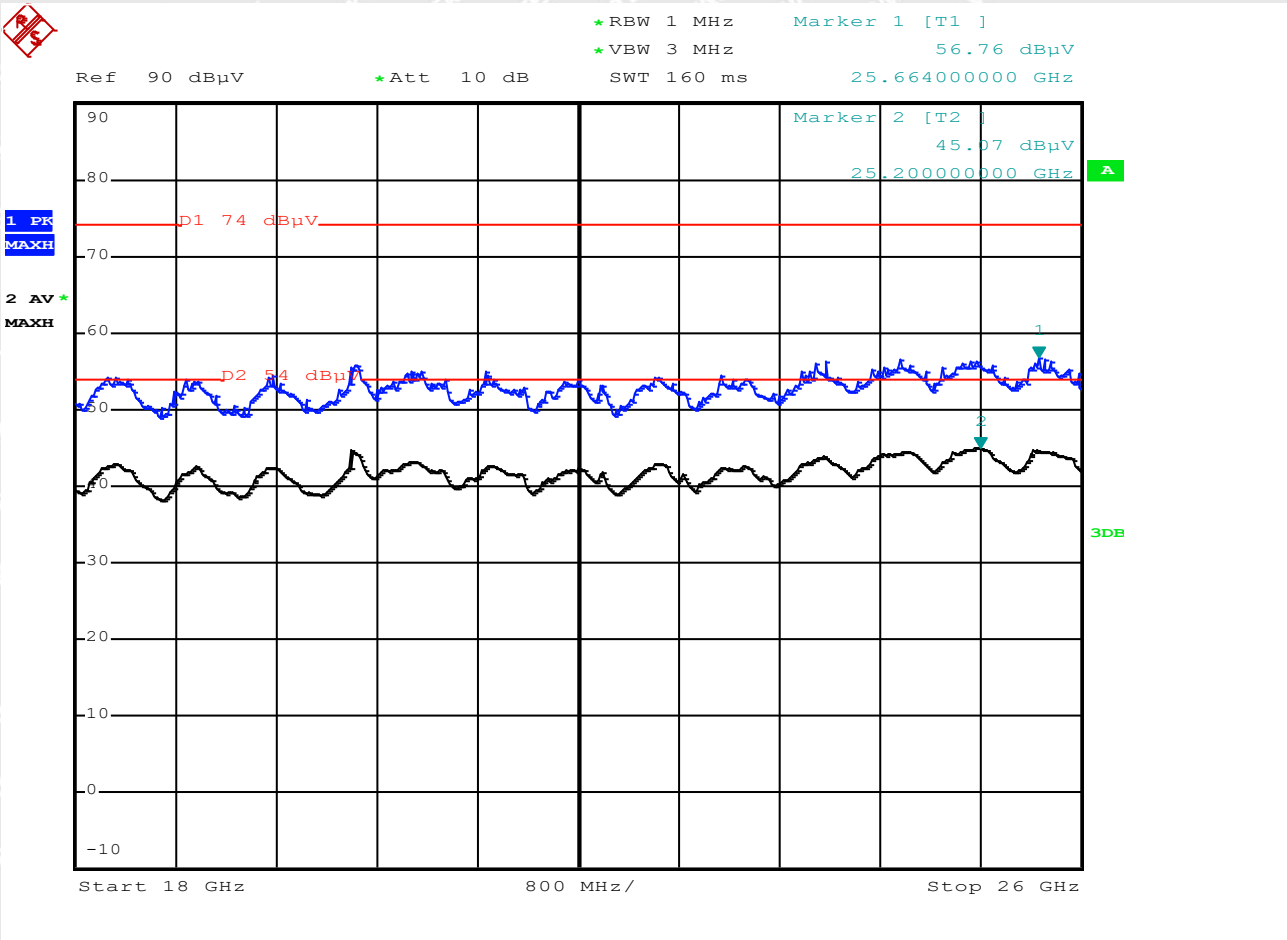
No.	Frequency	Reading	Correct	Result	Limit 15.209	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1597.181	52.41	-11.26	41.15	74.00	-32.85	-	-	peak
2	3242.619	50.77	-6.59	44.18	74.00	-29.82	-	-	peak
3	7584.833	42.06	3.63	45.69	74.00	-28.31	-	-	peak

No.	Frequency	Reading	Correct	Result	Limit 27.5	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	1597.181	52.41	-11.26	41.15	82.20	-41.05	-	-	peak
2	3242.619	50.77	-6.59	44.18	82.20	-38.02	-	-	peak
3	7584.833	42.06	3.63	45.69	82.20	-36.51	-	-	peak



Above 18GHz

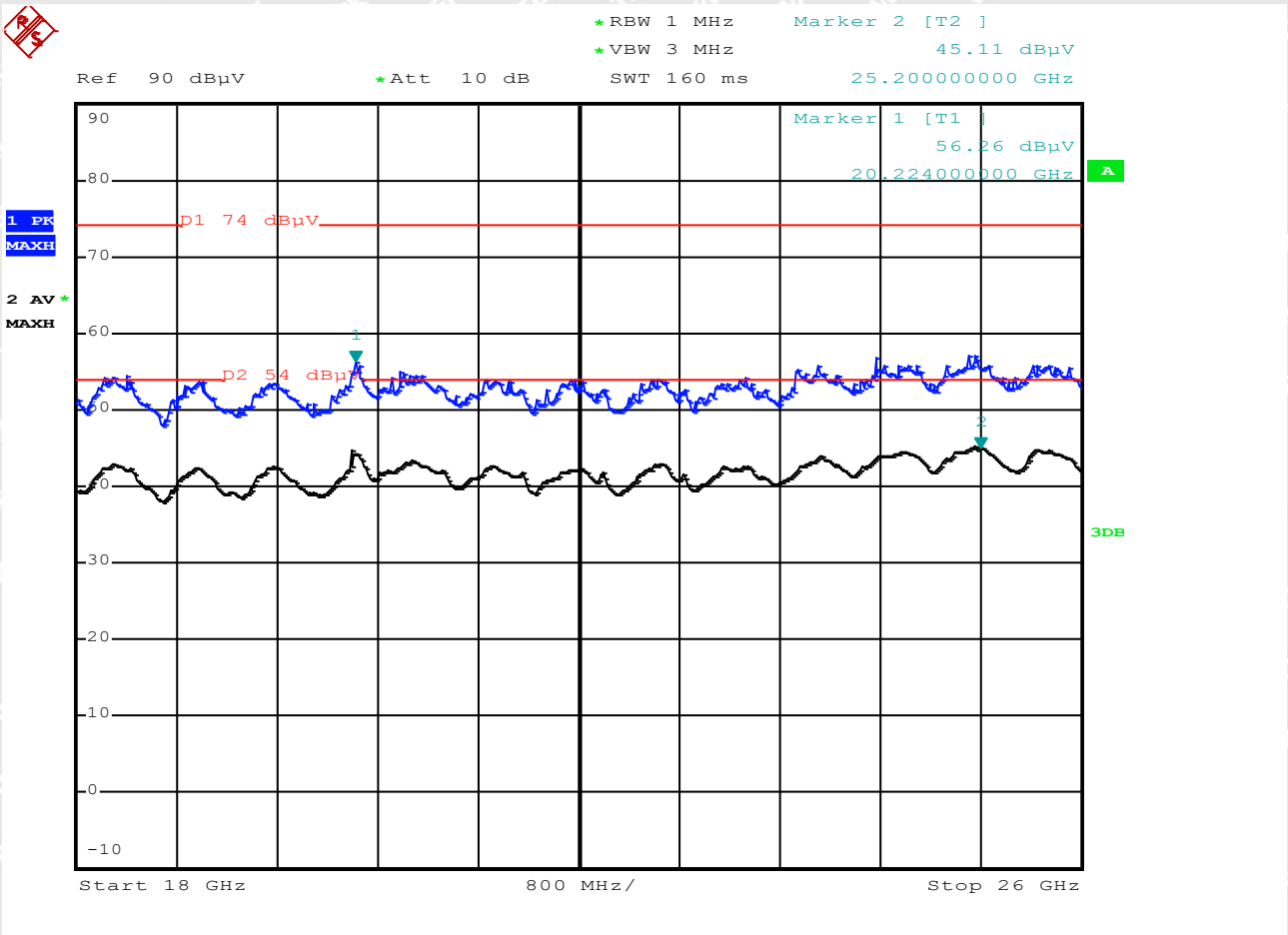
Test mode:	TM1	Polarity:	Horizontal
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No.	Frequency (GHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	25.664	56.76	74.00	-17.24	-	-	peak
2	25.200	45.07	54.00	-8.93	-	-	AVG



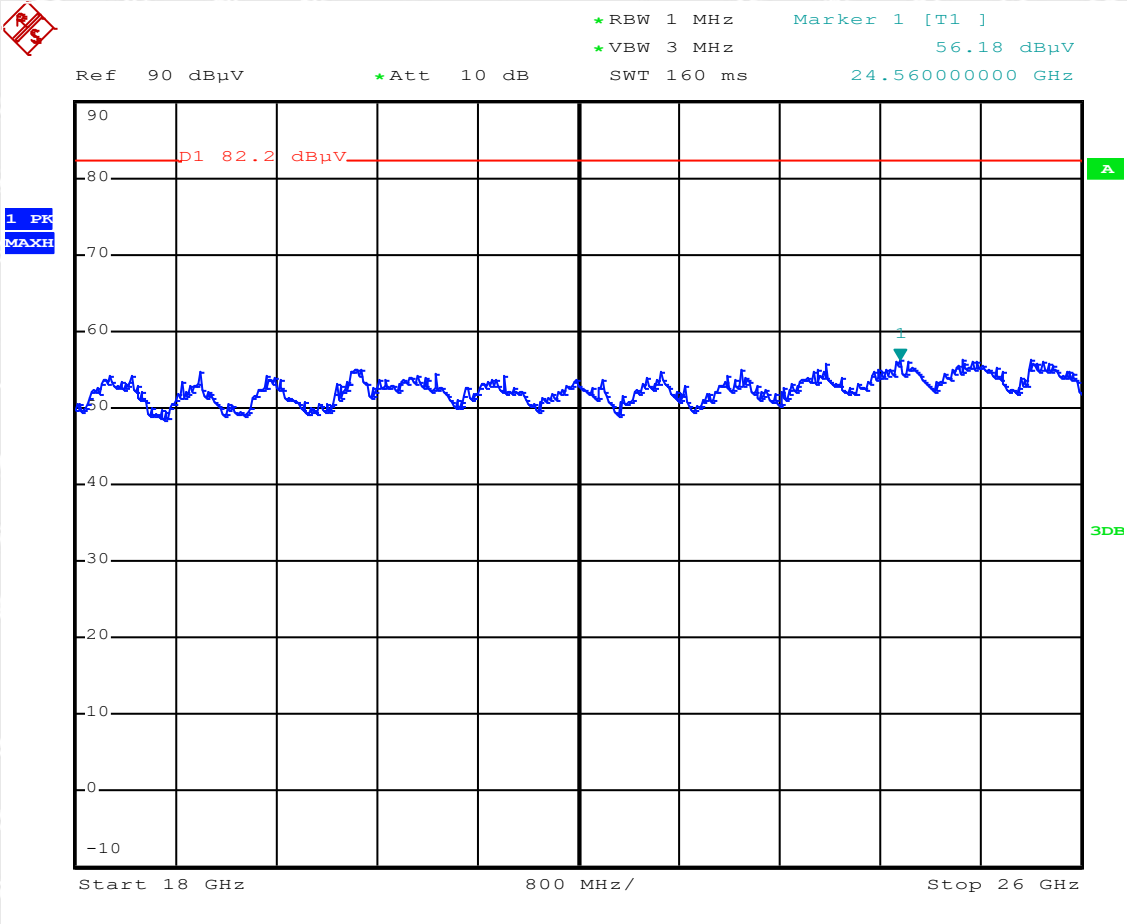
Test mode:	TM1	Polarity:	Vertical
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No.	Frequency (GHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	20.224	56.26	74.00	-17.74	-	-	peak
2	25.200	45.11	54.00	-8.89	-	-	AVG



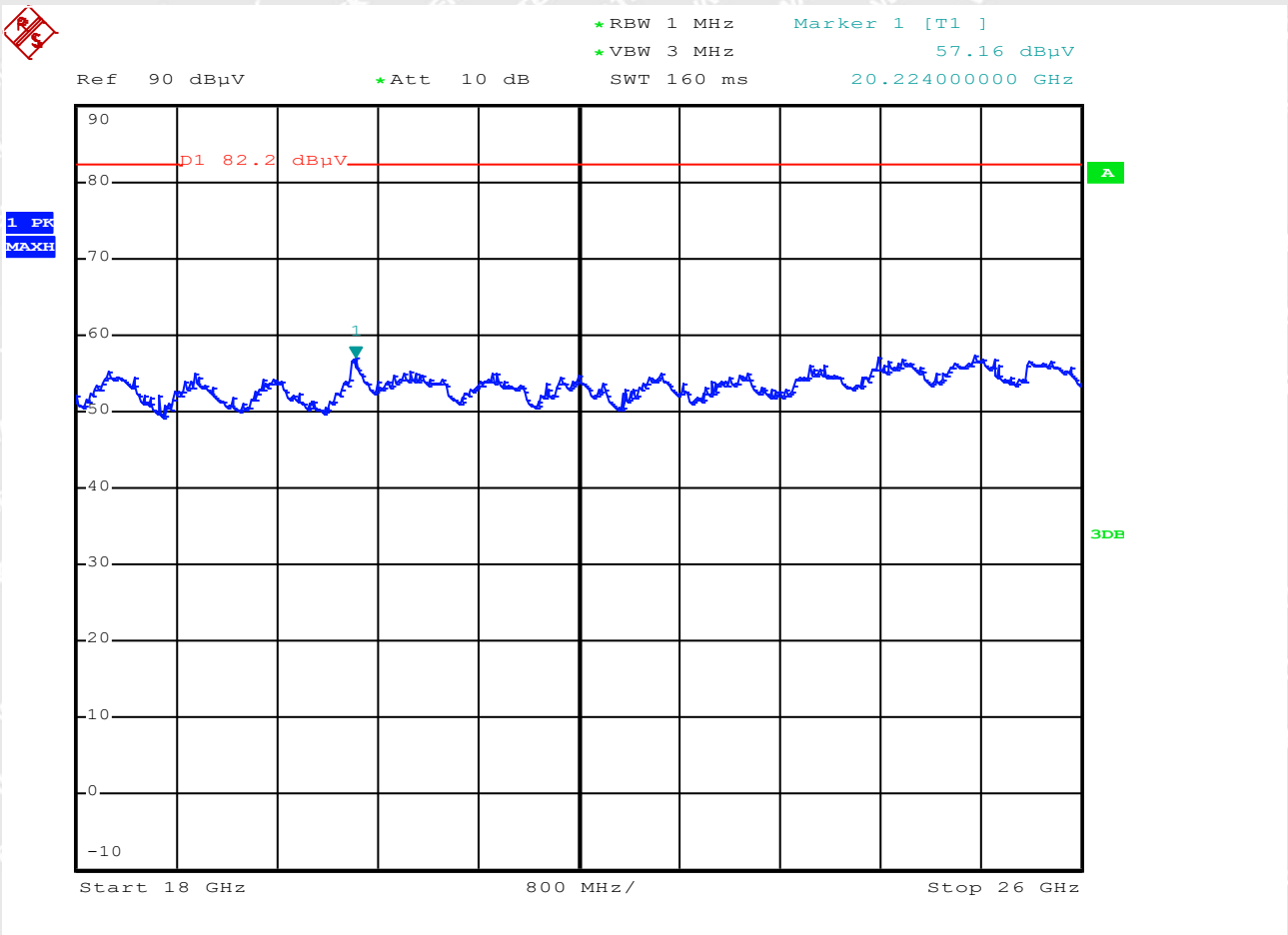
Test mode:	TM2	Polarity:	Horizontal
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No.	Frequency	Result	Limit	Margin	Degree	Height	Remark
	(GHz)	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	24.560	56.18	82.2	-26.02	-	-	peak



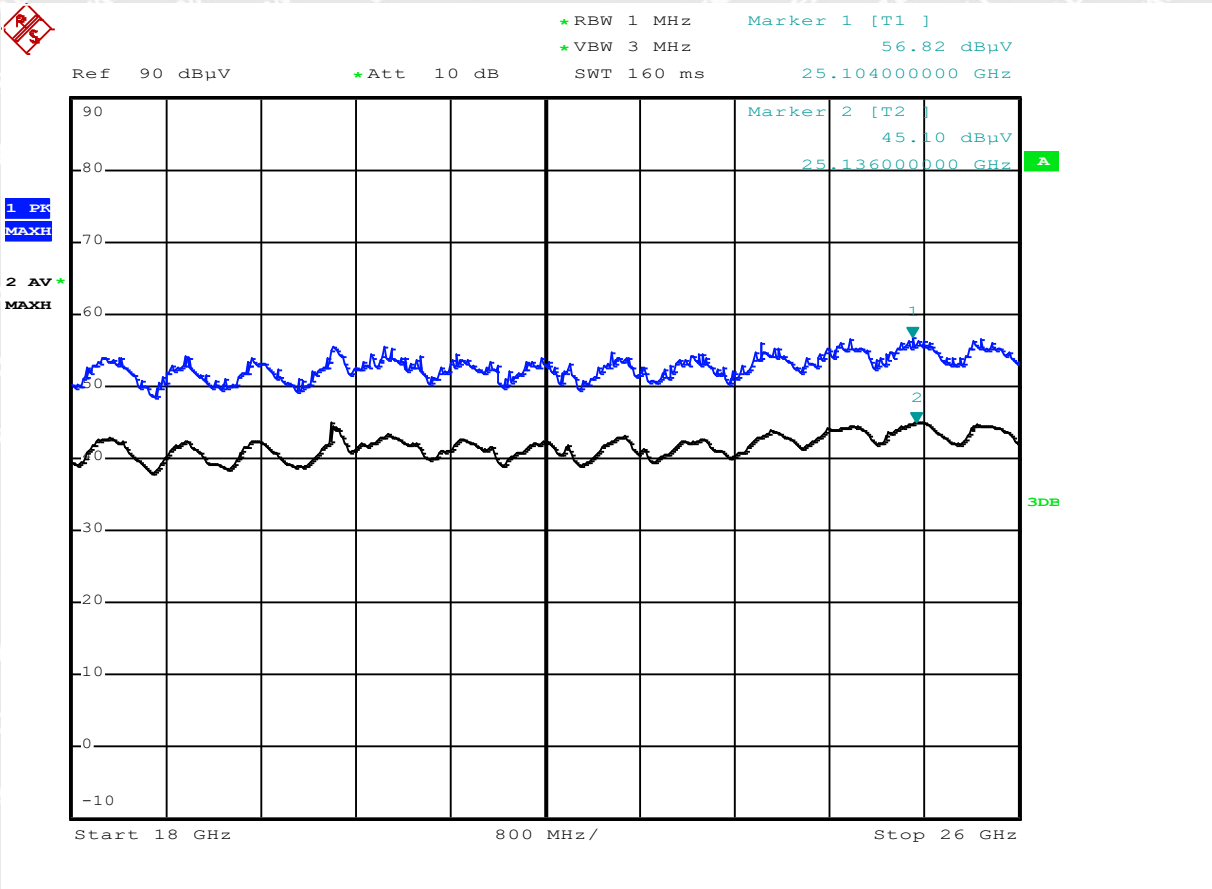
Test mode:	TM2	Polarity:	Vertical
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No.	Frequency (GHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	20.224	57.16	82.2	-25.04	-	-	peak



Test mode:	TM7	Polarity:	Horizontal
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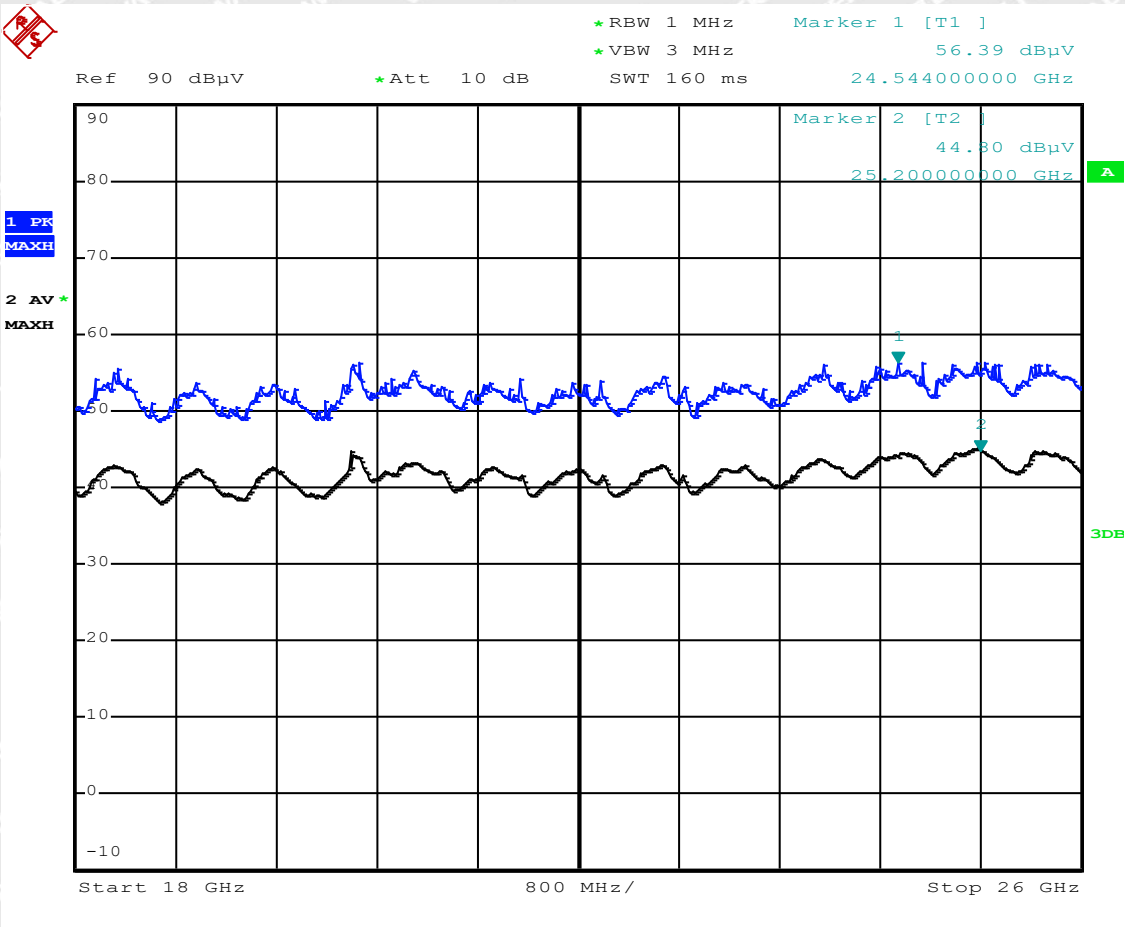


No.	Frequency	Result	Limit	Margin	Degree	Height	Remark
	(GHz)	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	25.104	56.82	74.00	-17.18	--	--	peak
2	25.136	45.10	54.00	-8.90	--	--	AVG

No.	Frequency	Result	Limit	Margin	Degree	Height	Remark
	(GHz)	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	25.104	56.82	82.20	-25.38	--	--	peak
2	25.136	45.10	82.20	-37.10	--	--	AVG



Test mode:	TM7	Polarity:	Vertical
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No.	Frequency	Result	Limit	Margin	Degree	Height	Remark
	(GHz)	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
			15.209				
			15.209				
1	24.544	56.39	74.00	-17.61	-	-	peak
2	25.300	44.80	54.00	-9.20	-	-	AVG

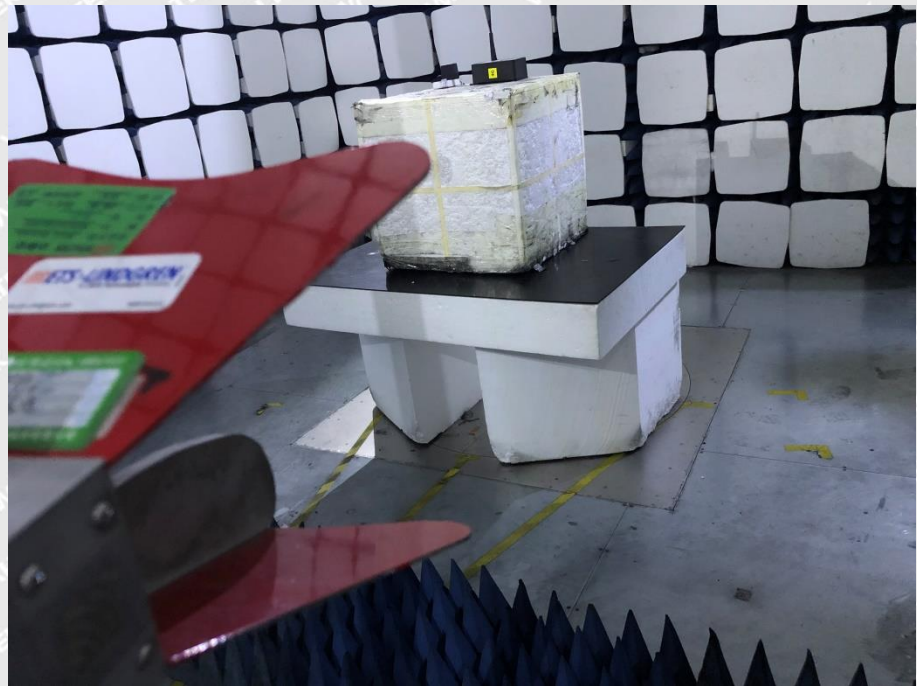
No.	Frequency	Result	Limit	Margin	Degree	Height	Remark
	(GHz)	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
			24.229				
			15.209				
1	24.544	56.39	82.20	-25.81	-	-	peak
2	25.300	44.8	82.20	-37.40	-	-	AVG

Remark:“-”Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

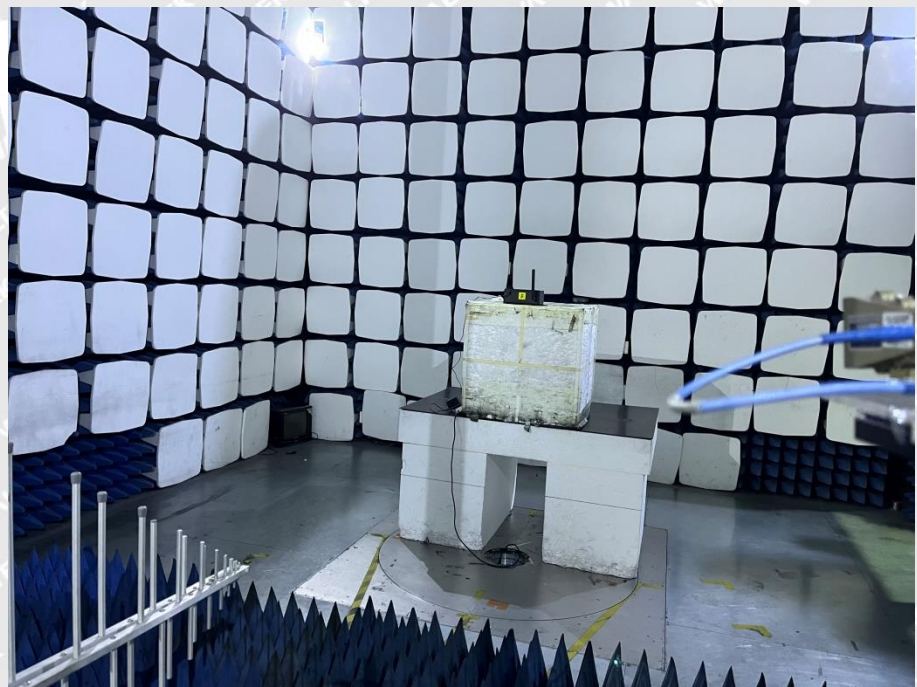


EXHIBIT 1 - TEST SETUP PHOTOGRAPHS

**Radiation Emission Test
View (Above 1GHz)**



**Radiation Emission Test
View (Above 18GHz)**



***** END OF REPORT *****