

FCC Part 15B

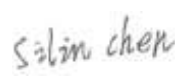
Measurement and Test Report

For

NEWSAN S.A.

Roque Perez 3650, Saavedra, Cdad. Autonoma de Buenos Aires, Argentina

FCC ID: 2AQAI-N601.

FCC Rule(s):	<u>FCC Part 15 Subpart B</u>
Product Description:	<u>FCC CERTIFICATION FOR MOBILE PHONE</u>
Tested Model:	<u>N601</u>
Report No.:	<u>STR18068385E-3</u>
Sample Receipt Date:	<u>2018-06-28</u>
Tested Date:	<u>2018-06-29 to 2018-09-05</u>
Issued Date:	<u>2018-09-06</u>
Tested By:	<u>Jason Su / Engineer</u> 
Reviewed By:	<u>Silin Chen / EMC Manager</u> 
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: NEWSAN S.A.
Address of applicant: Roque Perez 3650, Saavedra, Cdad. Autonoma de Buenos Aires, Argentina

Manufacturer: NEWSAN S.A.
Address of manufacturer: Roque Perez 3650, Saavedra, Cdad. Autonoma de Buenos Aires, Argentina

General Description of EUT	
Product Name:	FCC CERTIFICATION FOR MOBILE PHONE
Trade Name:	/
Model No.:	N601
Adding Model(s):	/
Note: The test data is gathered from a production sample, provided by the manufacturer.	

Technical Characteristics of EUT	
Rated Voltage:	DC 3.85V
Rated Current:	/
Rated Power:	/
Power Adapter Model:	Model: TN-050155U2 Input: AC100-240V 50/60Hz 0.25A Output: DC5V 1.55A
Lowest Internal Frequency:	13.56MHz
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 Subpart B: Unintentional Radiators

ANSI C63.4-2014: American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

IEEE Std 187TM-2003: IEEE Standard for Measurement Methods of Emissions from FM and Television Broadcast Receivers in the frequency range of 9kHz to 40GHz

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 C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology 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
TM1	Charging + Playing	AC120V 60Hz for adapter
TM2	Downloading	AC120V 60Hz for adapter
TM3	Camera	AC120V 60Hz for adapter
TM4	FM receiving	AC120V 60Hz for adapter
TM5	GPS receiving	AC120V 60Hz for adapter
Note: Conducted Emissions worst case at TM1-TM2; Radiated Emission above 1GHz worst case at TM1,TM5.FM mode worst case at 98MHz		

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB-C Cable	1.0	Shielded	Without Core
Earphone	1.2	Unshielded	Without Core

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	E445	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Radiated Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
Spectrum Analyzer	Agilent	E4407B	MY41440400	2018-05-22	2019-05-21
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2018-05-22	2019-05-21
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-05-22	2019-05-21
Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
Amplifier	C&D	PAP-1G18	2002	2018-05-22	2019-05-21
Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-05-22	2019-05-21
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-05-22	2019-05-21
Communication Tester	Rohde & Schwarz	CMW500	148650	2018-05-22	2019-05-21
Signal Generator	HP	8648A	3642U01277	2018-05-22	2019-05-21

2. SUMMARY OF TEST RESULTS

Description of Test	Result
§15.107 (a) Conducted Emission	Compliant
§15.109(a) Radiated Emission	Compliant

N/A: not applicable

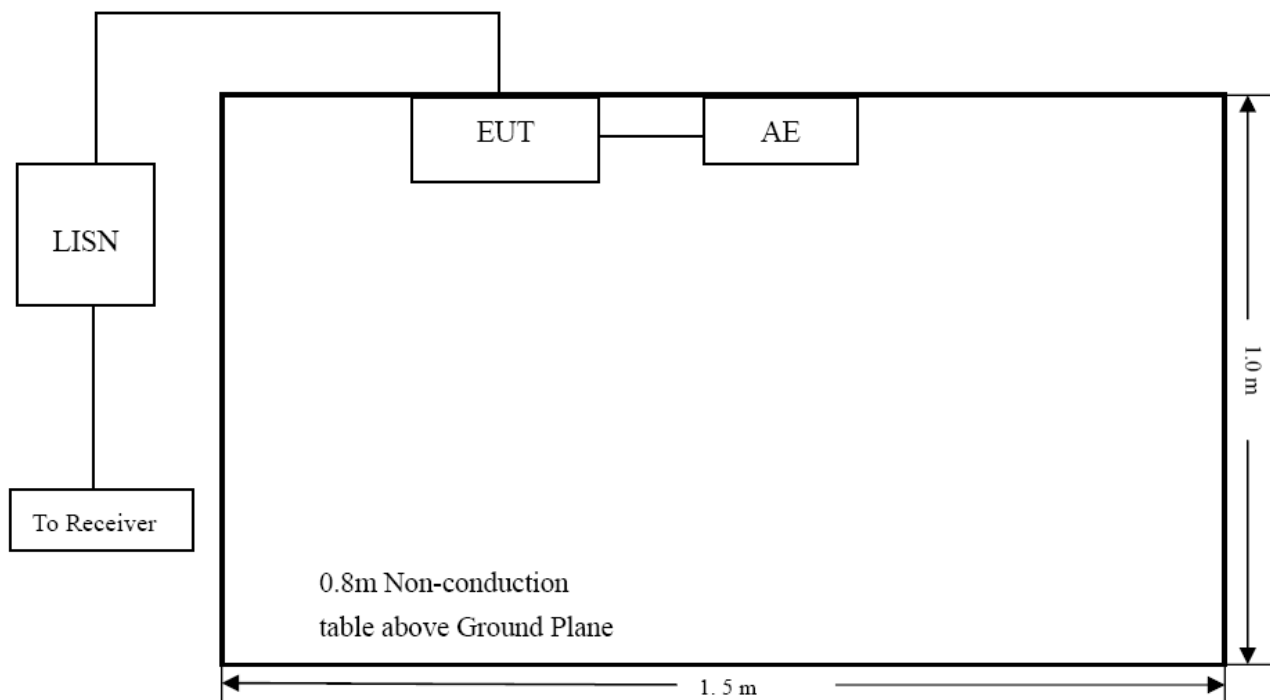
3. Conducted Emissions

3.1 Test Procedure

Test is conducting under the description of ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

FM test recorded to the IEEE Std 187TM-2003 Chapter 6

3.2 Basic Test Setup Block Diagram



3.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	52%
ATM Pressure:	1011 mbar

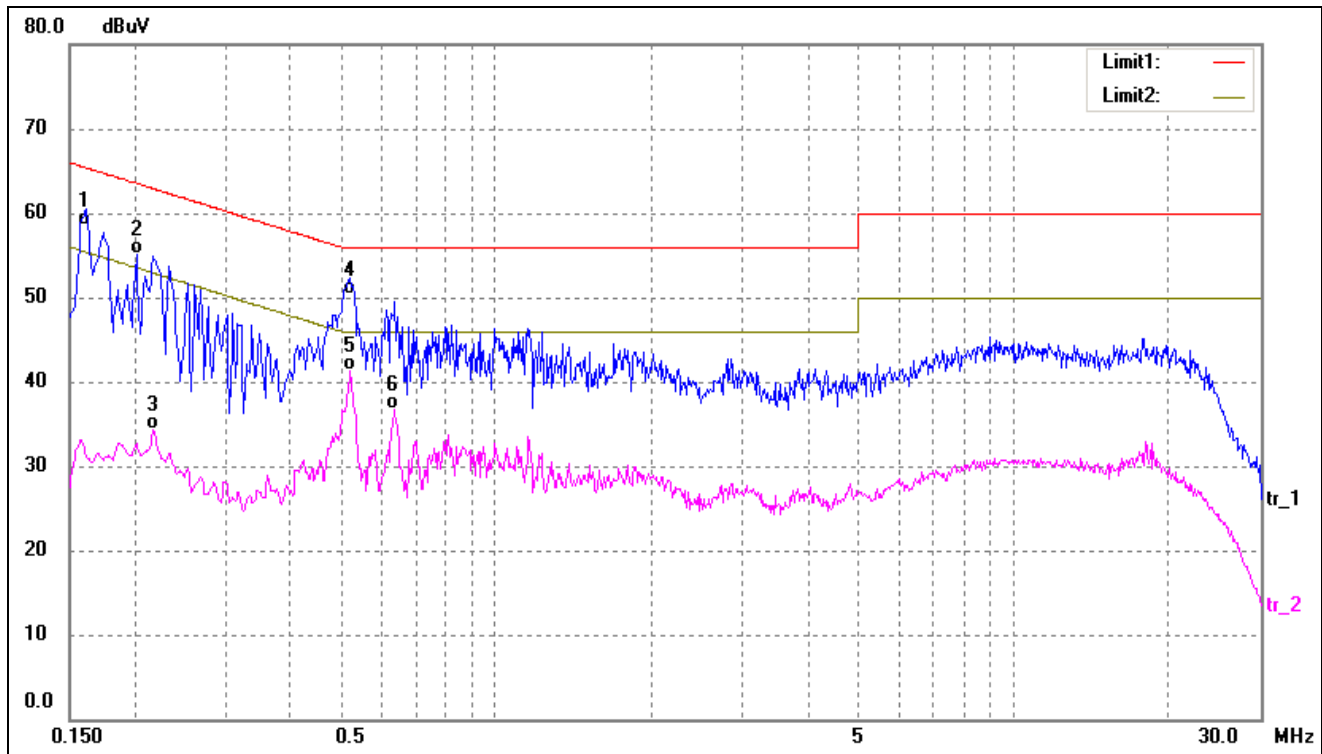
3.4 Summary of Test Results/Plots

According to the data in section 3.5, the EUT complied with the FCC Part 15.107(a) Conducted margin for a Class B device, with the *worst* margin reading of:

-3.74 dB at 0.5299 MHz in the **Line, QP** detector, **TM1** mode, 0.15-30MHz

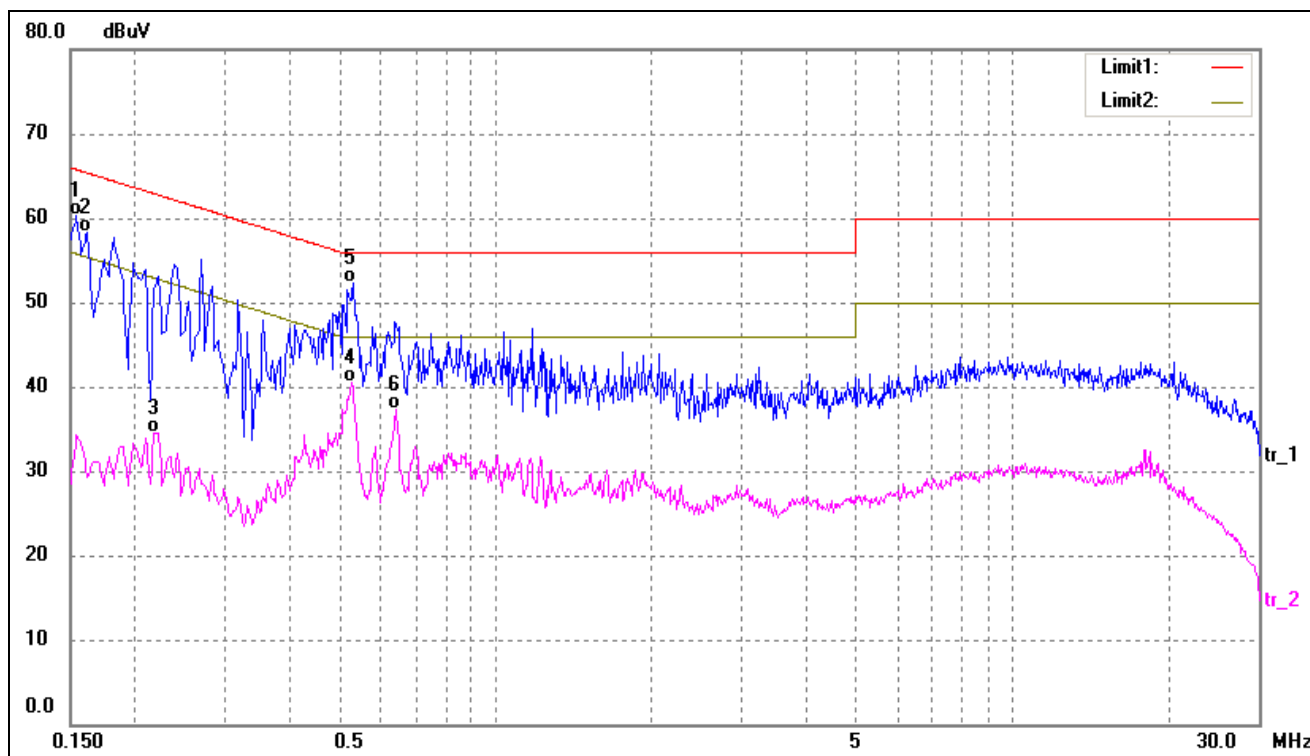
3.5 Conducted Emissions Test Data

Test mode:	TM1	Polarity:	Line
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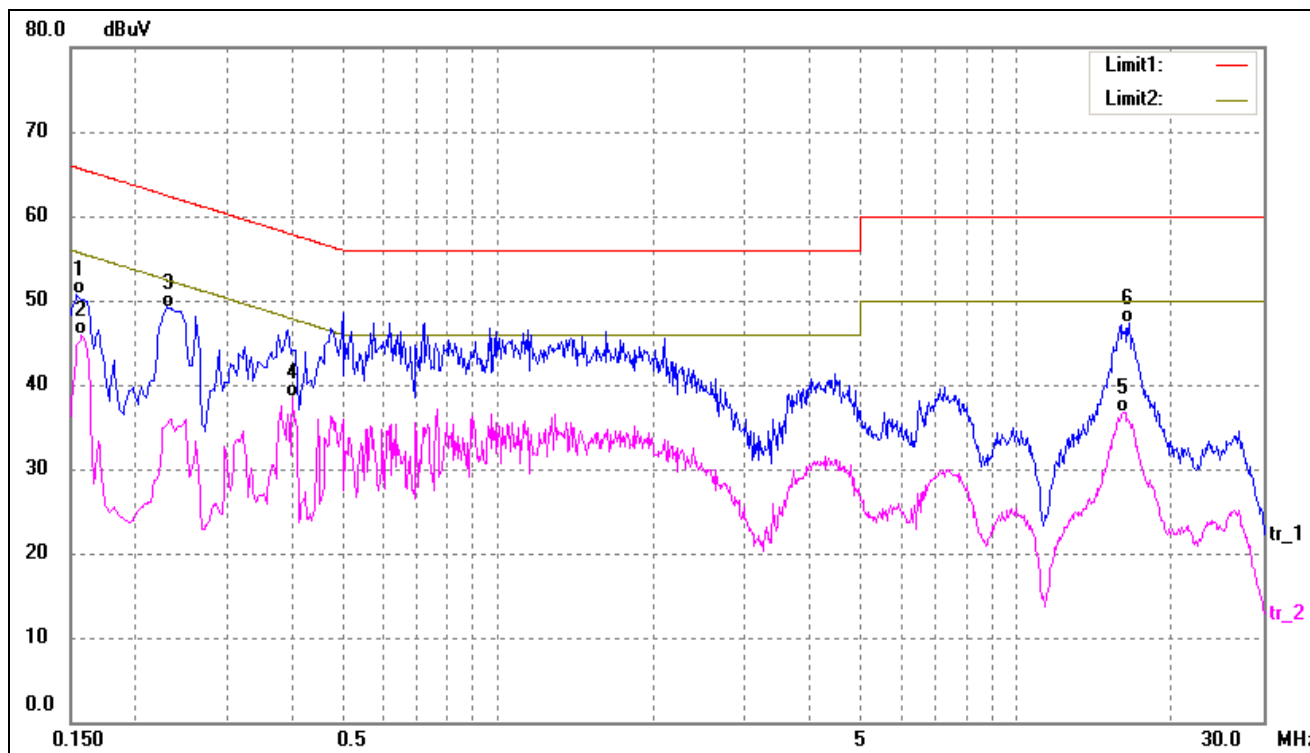
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1620	48.34	10.10	58.44	65.36	-6.92	QP
2	0.2020	44.99	10.12	55.11	63.52	-8.41	QP
3	0.2180	24.23	10.13	34.36	52.89	-18.53	AVG
4	0.5220	39.92	10.30	50.22	56.00	-5.78	QP
5*	0.5220	30.94	10.30	41.24	46.00	-4.76	AVG
6	0.6340	26.36	10.36	36.72	46.00	-9.28	AVG

Test mode:	TM1	Polarity:	Neutral
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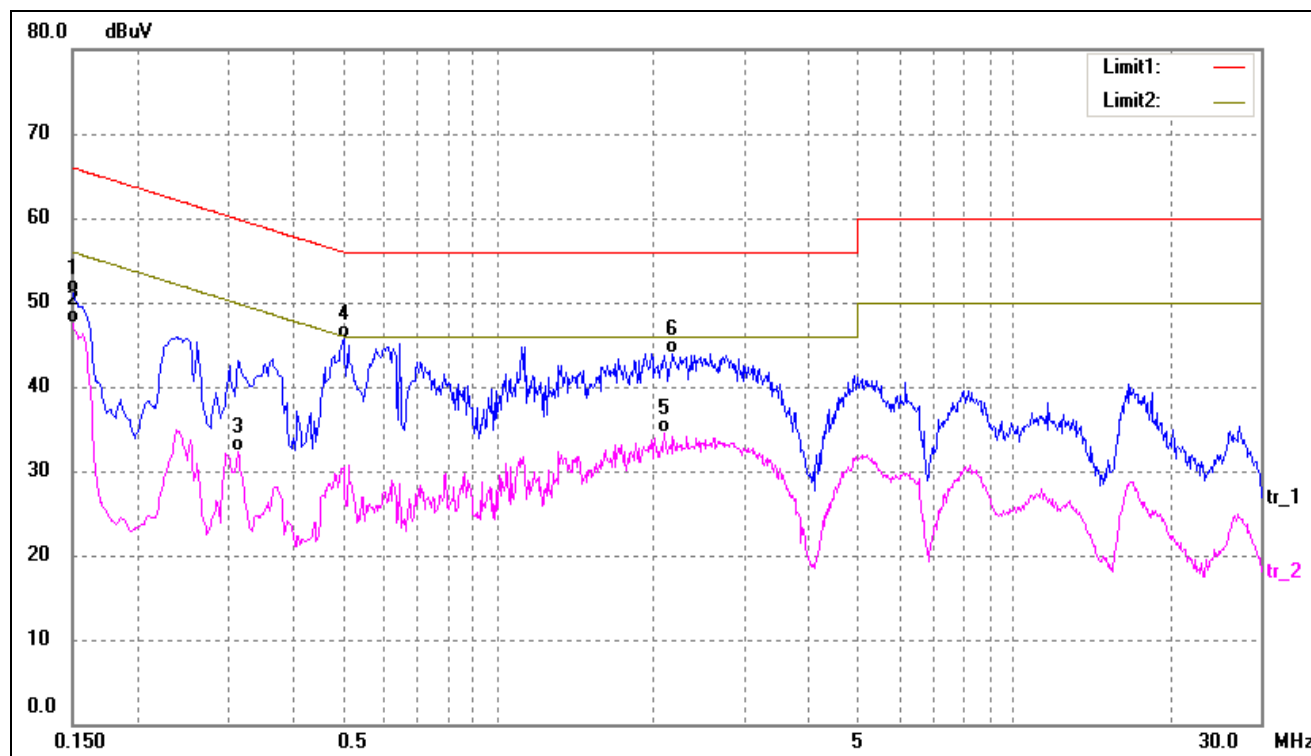
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	50.16	10.10	60.26	65.78	-5.52	QP
2	0.1620	48.23	10.10	58.33	65.36	-7.03	QP
3	0.2180	24.43	10.13	34.56	52.89	-18.33	AVG
4	0.5260	30.14	10.30	40.44	46.00	-5.56	AVG
5*	0.5299	41.96	10.30	52.26	56.00	-3.74	QP
6	0.6419	26.98	10.36	37.34	46.00	-8.66	AVG

Test mode:	TM2	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	40.62	10.10	50.72	65.78	-15.06	QP
2	0.1580	35.74	10.10	45.84	55.56	-9.72	AVG
3	0.2316	38.98	10.14	49.12	62.39	-13.27	QP
4*	0.4020	28.33	10.25	38.58	47.81	-9.23	AVG
5	16.0700	25.73	11.06	36.79	50.00	-13.21	AVG
6	16.5380	36.26	11.08	47.34	60.00	-12.66	QP

Test mode:	TM2	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	41.02	10.10	51.12	65.99	-14.87	QP
2*	0.1500	37.42	10.10	47.52	55.99	-8.47	AVG
3	0.3140	22.10	10.20	32.30	49.86	-17.56	AVG
4	0.5020	35.48	10.29	45.77	56.00	-10.23	QP
5	2.1099	23.79	10.62	34.41	46.00	-11.59	AVG
6	2.1860	33.36	10.62	43.98	56.00	-12.02	QP

4. RADIATED EMISSION

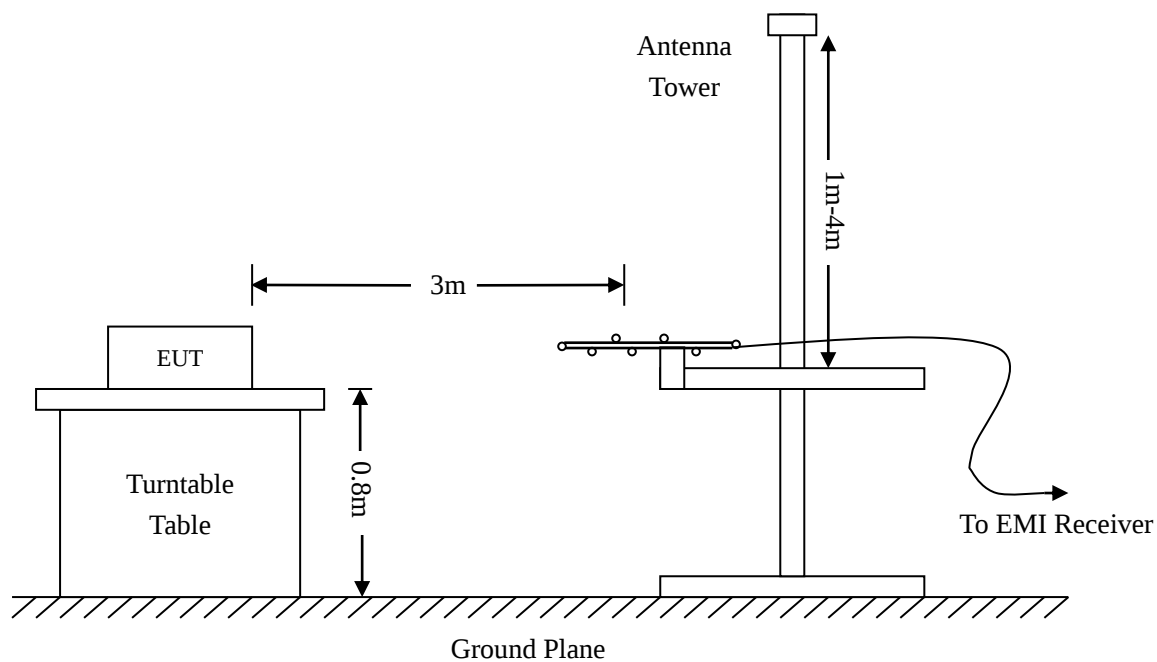
4.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.109 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

FM test recorded to the IEEE Std 187TM-2003 Chapter 7.



4.2 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

4.3 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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} - \text{Corr. Factor}$$

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

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15.109(a) Limit}$$

4.4 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	55 %
ATM Pressure:	1011 mbar

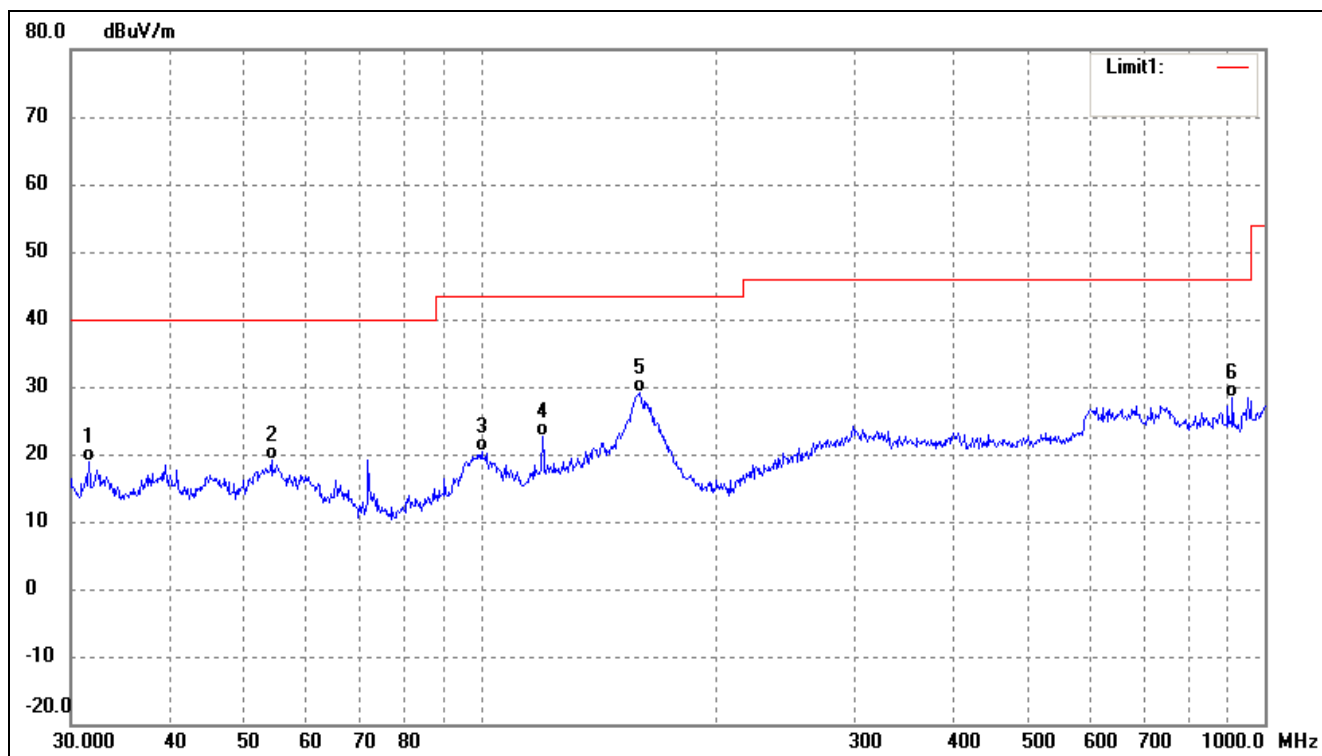
4.5 Summary of Test Results/Plots

According to the data, the EUT complied with the FCC Part 15.109(a) rule, and had the worst margin of:

-6.42 dB at 65.8031 MHz in the Horizontal polarization, TM2 mode, 9 kHz to 13 GHz, 3Meters

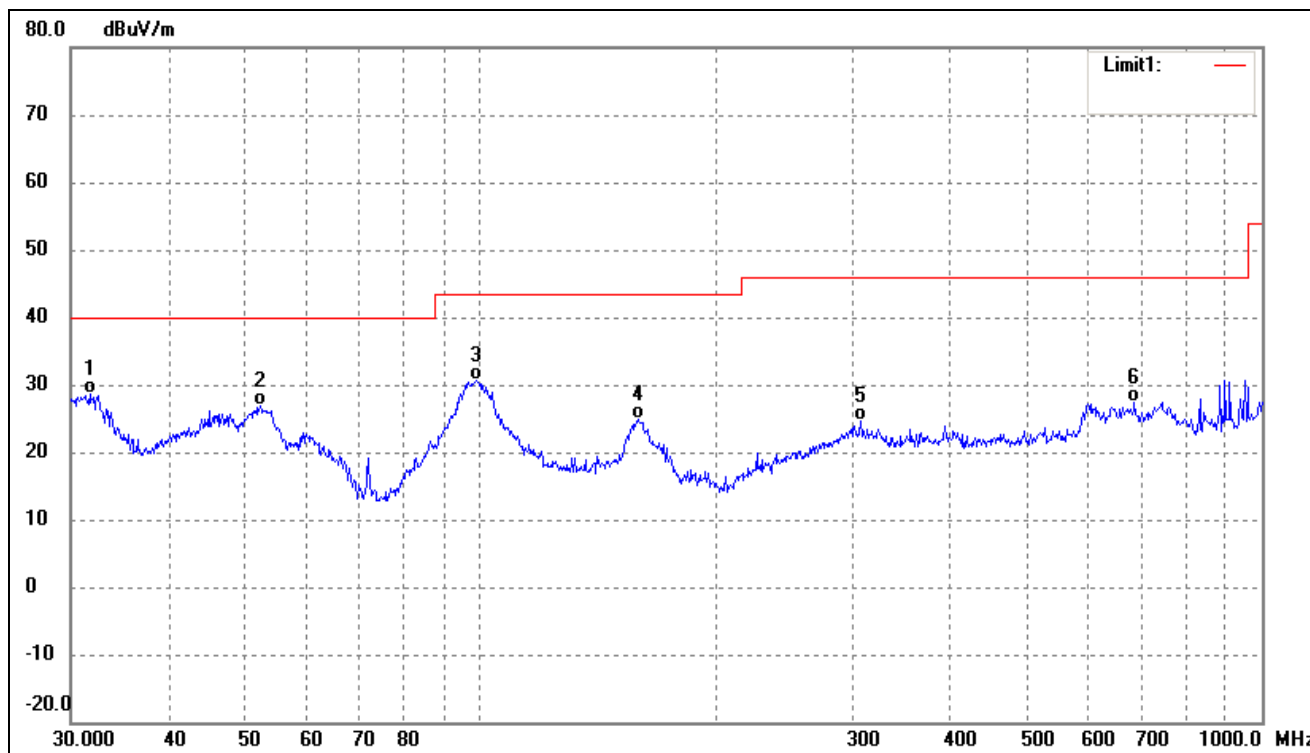
➤ Below 1GHz

Test mode:	TM1	Polarity:	Horizontal
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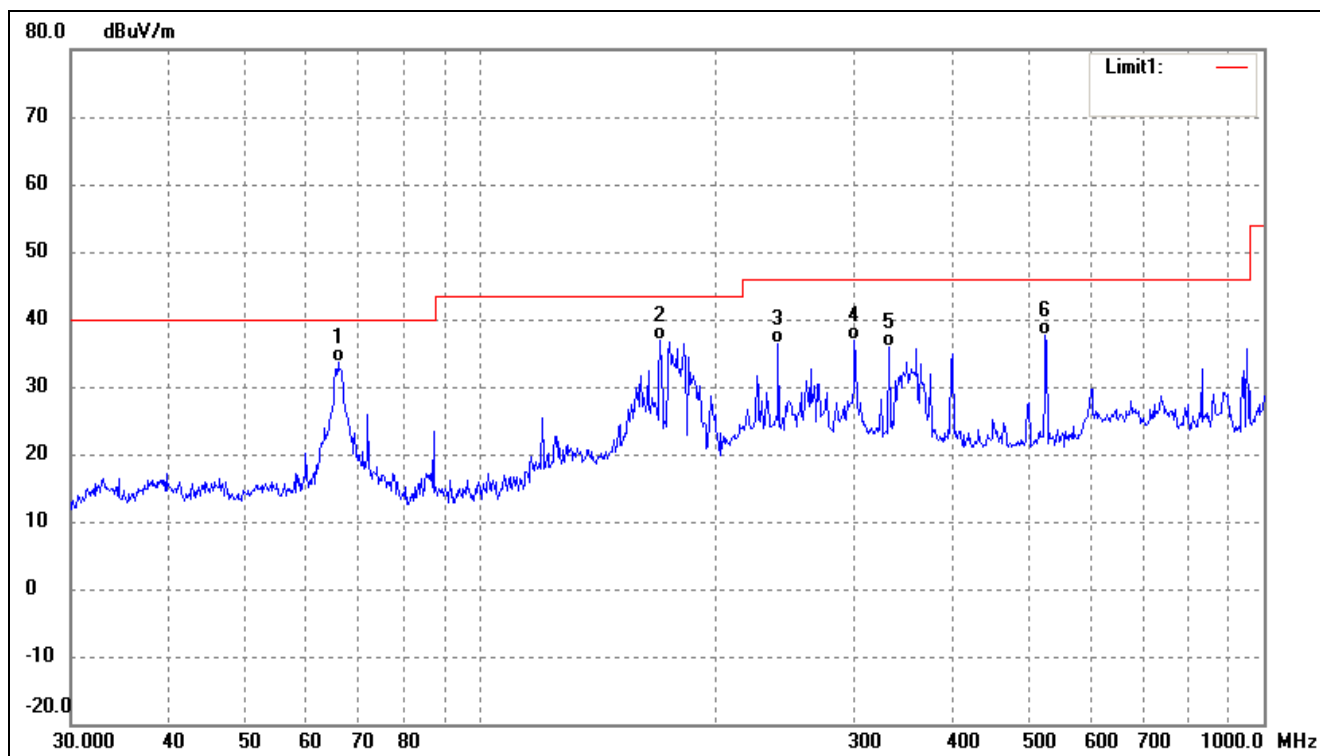
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	31.6202	38.79	-19.89	18.90	40.00	-21.10	258	100	QP
2	54.0711	37.53	-18.44	19.09	40.00	-20.91	94	100	QP
3	100.2286	38.41	-18.09	20.32	43.50	-23.18	219	100	QP
4	119.8556	40.42	-17.86	22.56	43.50	-20.94	108	100	QP
5	159.2251	48.89	-19.73	29.16	43.50	-14.34	245	100	QP
6	909.6667	32.91	-4.51	28.40	46.00	-17.60	282	100	QP

Test mode:	TM1	Polarity:	Vertical
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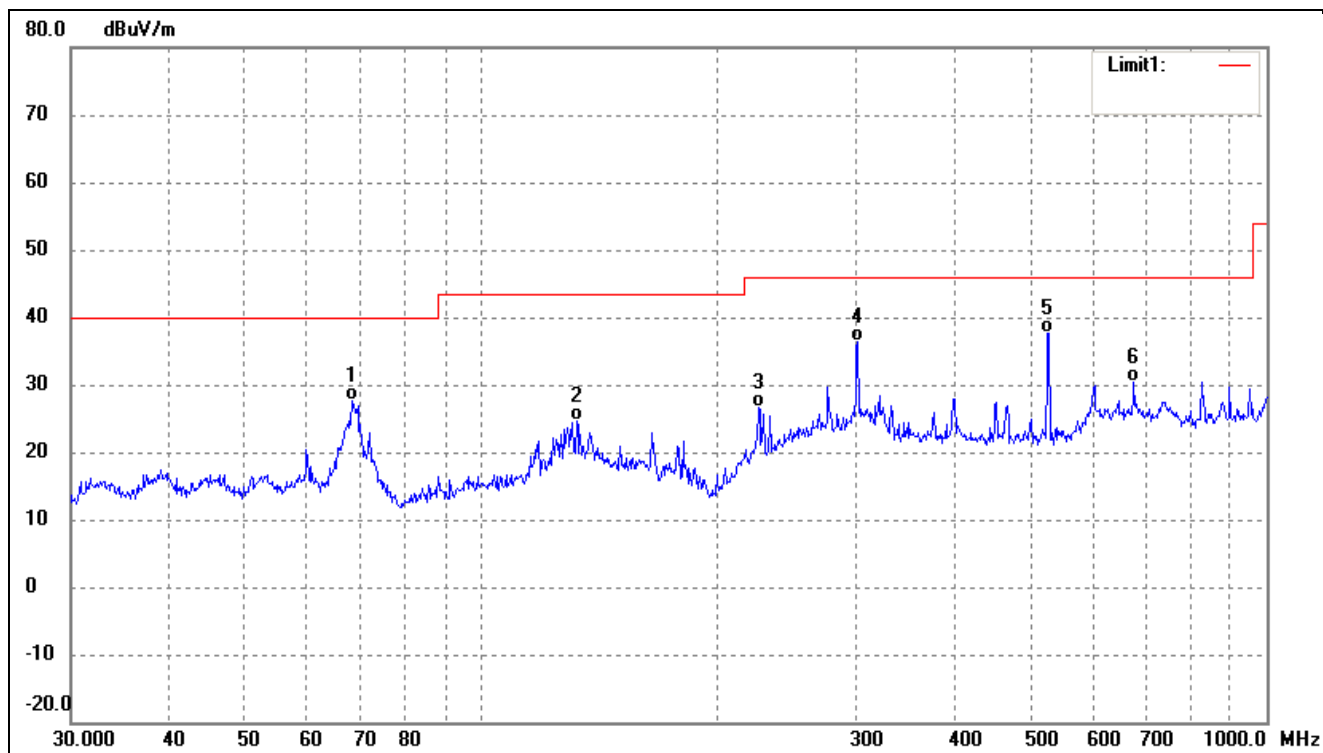
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	31.7313	48.60	-19.87	28.73	40.00	-11.27	330	100	QP
2	52.3913	45.29	-18.51	26.78	40.00	-13.22	92	100	QP
3	99.1797	48.90	-18.23	30.67	43.50	-12.83	109	100	QP
4	159.7844	44.61	-19.75	24.86	43.50	-18.64	116	100	QP
5	306.7537	32.51	-7.91	24.60	46.00	-21.40	58	100	QP
6	687.1507	30.66	-3.19	27.47	46.00	-18.53	319	100	QP

Test mode:	TM2	Polarity:	Horizontal
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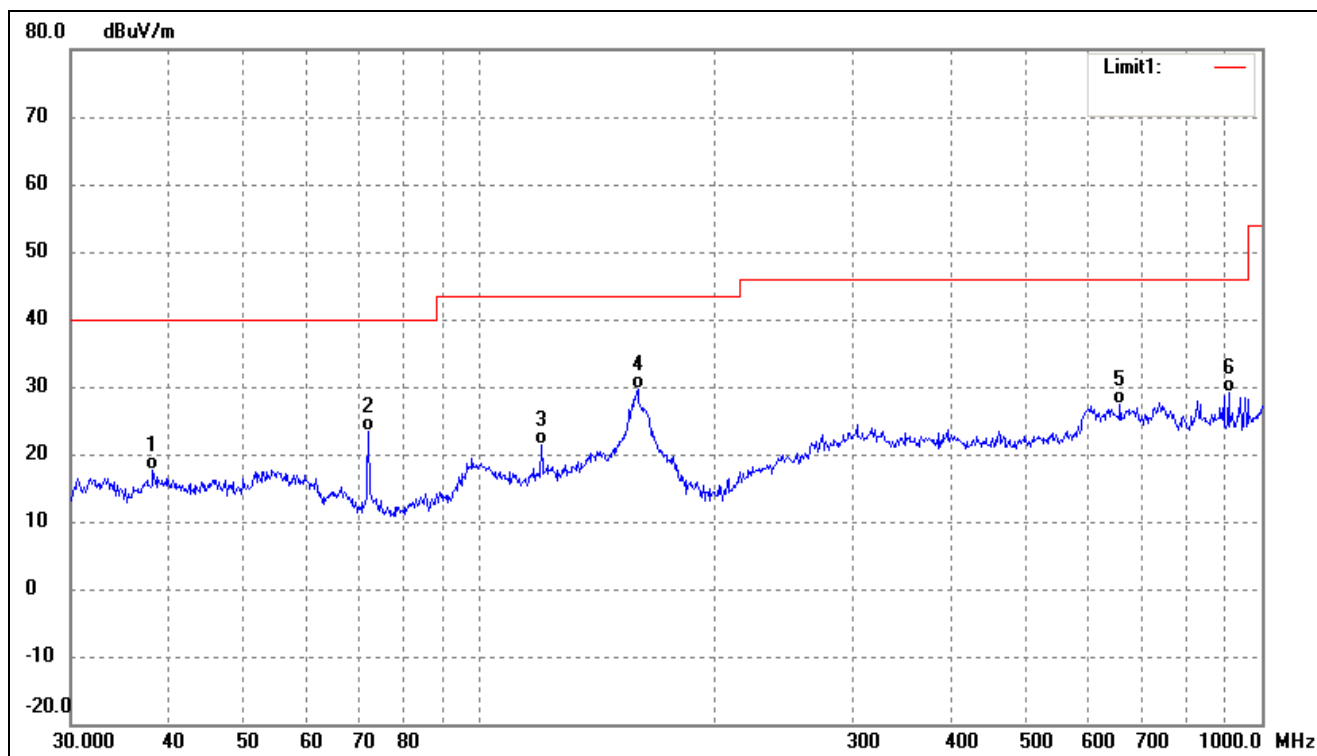
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	65.8031	53.08	-19.50	33.58	40.00	-6.42	325	100	QP
2	169.5990	56.51	-19.68	36.83	43.50	-6.67	322	100	QP
3	239.9874	48.33	-11.91	36.42	46.00	-9.58	60	100	QP
4	300.3673	44.73	-7.91	36.82	46.00	-9.18	181	100	QP
5	332.5187	44.26	-8.37	35.89	46.00	-10.11	124	100	QP
6	526.3967	44.87	-7.28	37.59	46.00	-8.41	203	100	QP

Test mode:	TM2	Polarity:	Vertical
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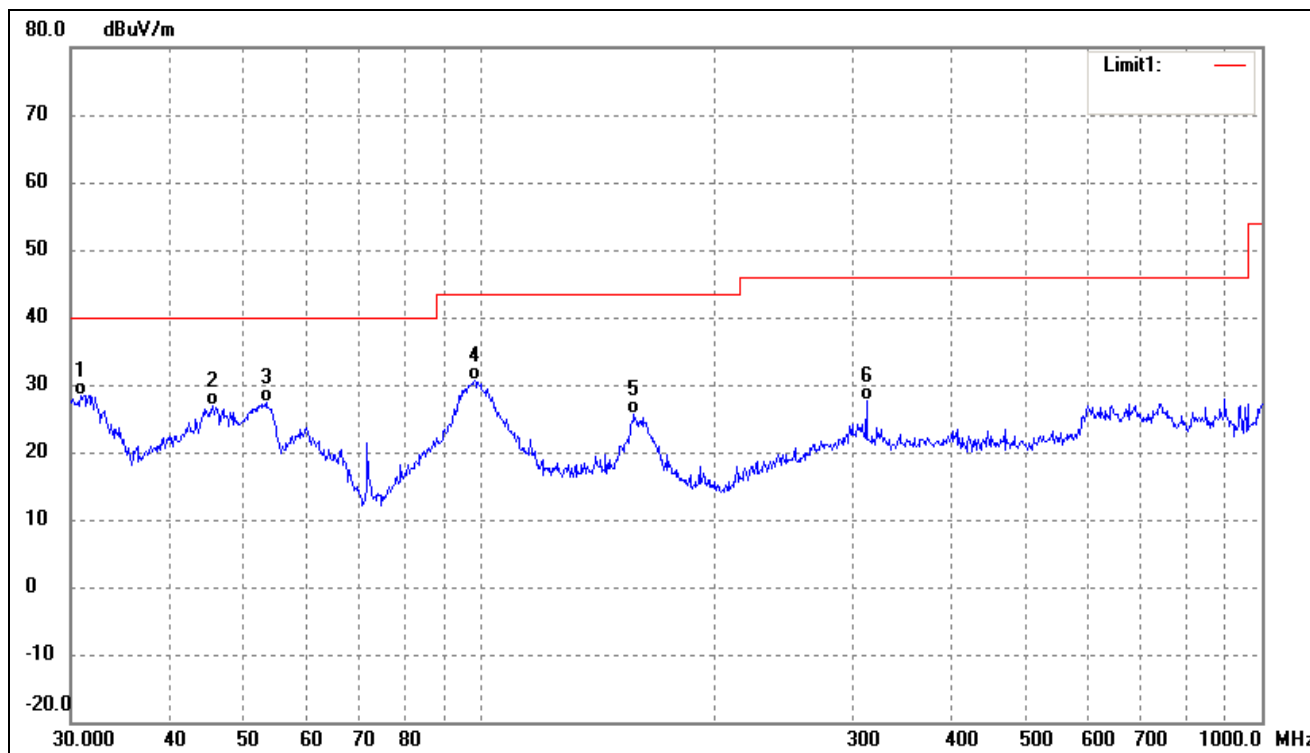
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	68.3908	47.77	-20.08	27.69	40.00	-12.31	278	100	QP
2	132.2206	43.15	-18.64	24.51	43.50	-18.99	210	100	QP
3	225.3080	39.84	-13.22	26.62	46.00	-19.38	81	100	QP
4	301.4224	44.40	-7.91	36.49	46.00	-9.51	143	100	QP
5	526.3967	44.95	-7.28	37.67	46.00	-8.33	127	100	QP
6	677.5798	33.08	-2.77	30.31	46.00	-15.69	264	100	QP

Test mode:	TM3	Polarity:	Horizontal
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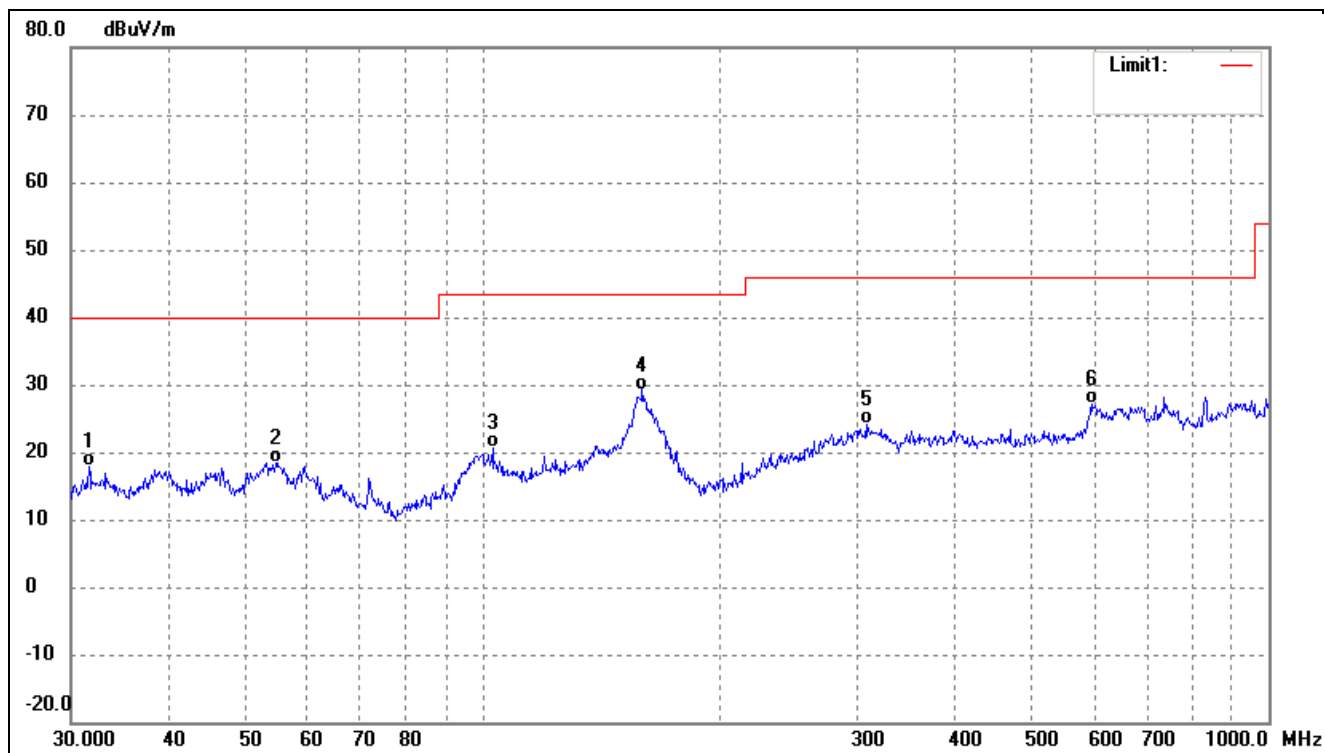
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.2120	36.41	-18.82	17.59	40.00	-22.41	103	100	QP
2	72.0843	44.14	-20.69	23.45	40.00	-16.55	106	100	QP
3	119.8556	39.12	-17.86	21.26	43.50	-22.24	72	100	QP
4	159.2251	49.39	-19.73	29.66	43.50	-13.84	136	100	QP
5	658.8362	31.01	-3.72	27.29	46.00	-18.71	229	100	QP
6	906.4824	33.55	-4.31	29.24	46.00	-16.76	154	100	QP

Test mode:	TM3	Polarity:	Vertical
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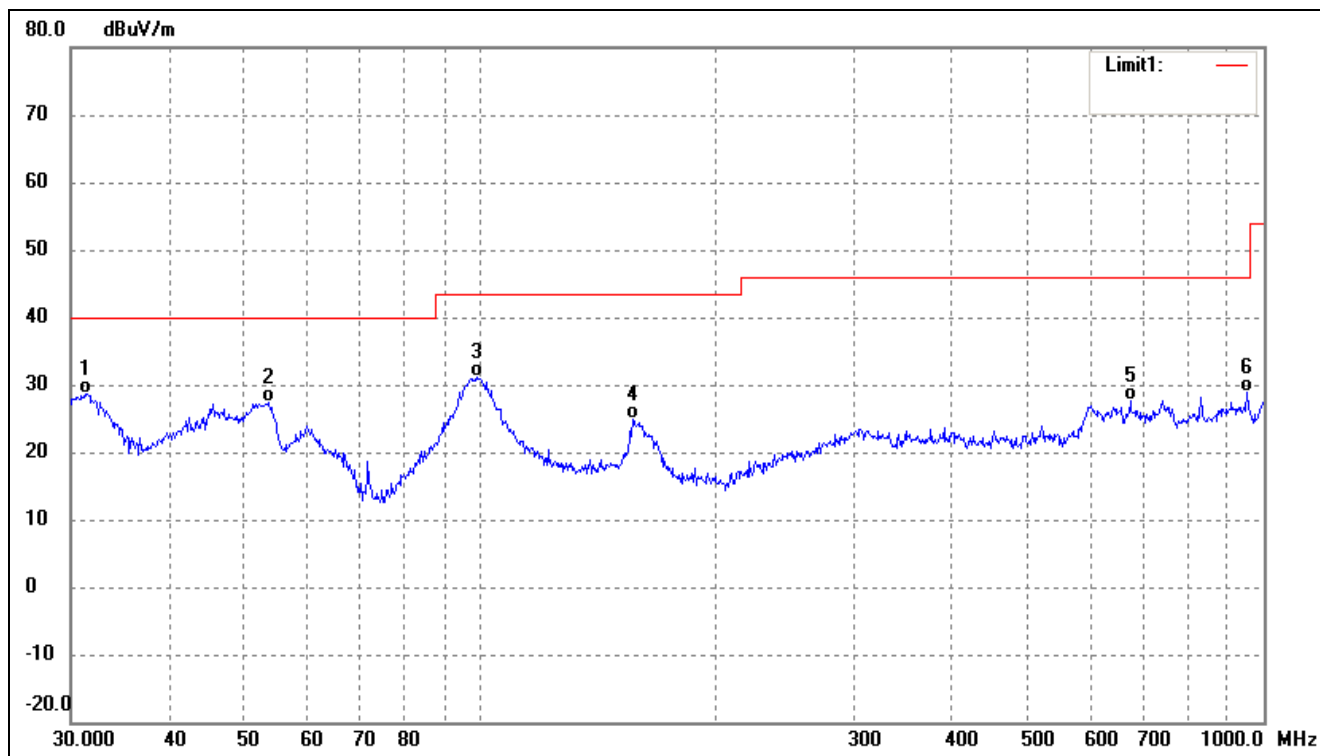
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	30.9619	48.50	-20.00	28.50	40.00	-11.50	52	100	QP
2	45.5348	45.48	-18.57	26.91	40.00	-13.09	167	100	QP
3	53.3179	45.84	-18.47	27.37	40.00	-12.63	81	100	QP
4	98.4866	48.88	-18.35	30.53	43.50	-12.97	106	100	QP
5	157.5589	45.25	-19.66	25.59	43.50	-17.91	228	100	QP
6	312.1794	35.45	-7.92	27.53	46.00	-18.47	148	100	QP

Test mode:	TM4	Polarity:	Horizontal
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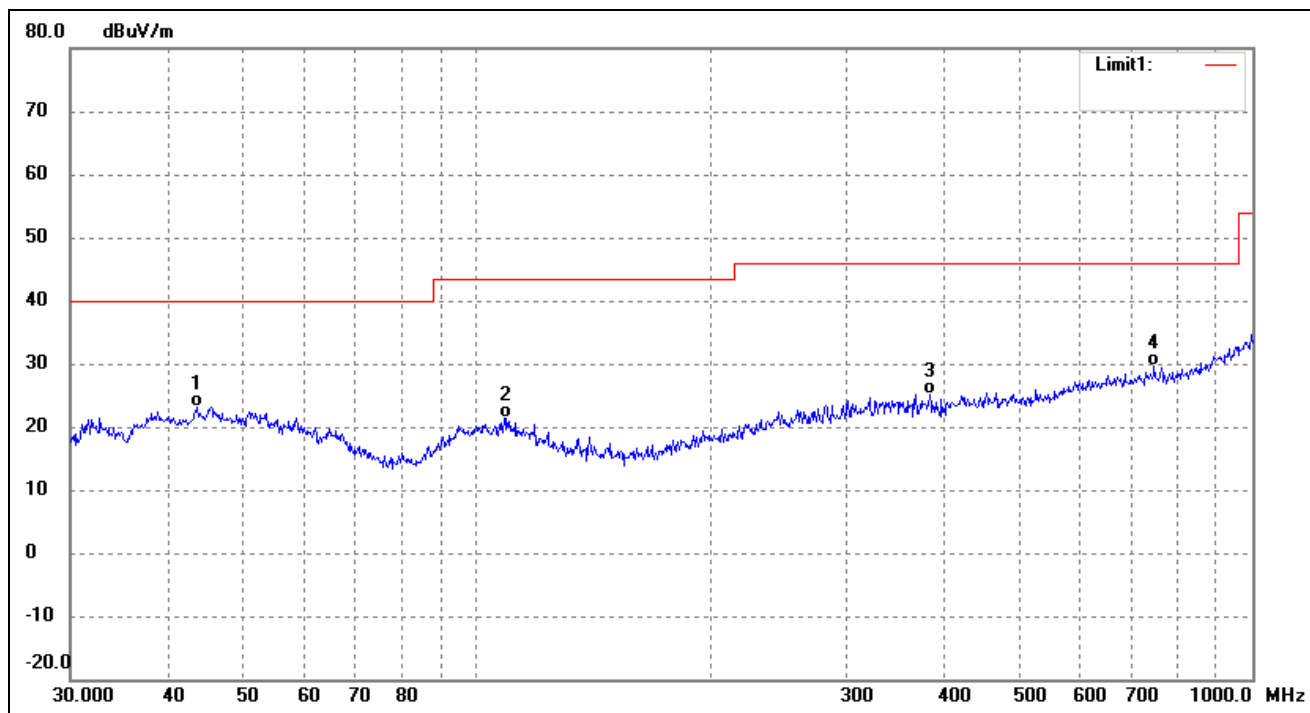
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	31.6202	37.68	-19.89	17.79	40.00	-22.21	159	100	QP
2	54.6429	36.91	-18.41	18.50	40.00	-21.50	292	100	QP
3	103.0800	38.75	-18.06	20.69	43.50	-22.81	70	100	QP
4	159.7844	49.00	-19.75	29.25	43.50	-14.25	138	100	QP
5	307.8313	32.00	-7.91	24.09	46.00	-21.91	166	100	QP
6	595.1329	30.52	-3.44	27.08	46.00	-18.92	163	100	QP

Test mode:	TM4	Polarity:	Vertical
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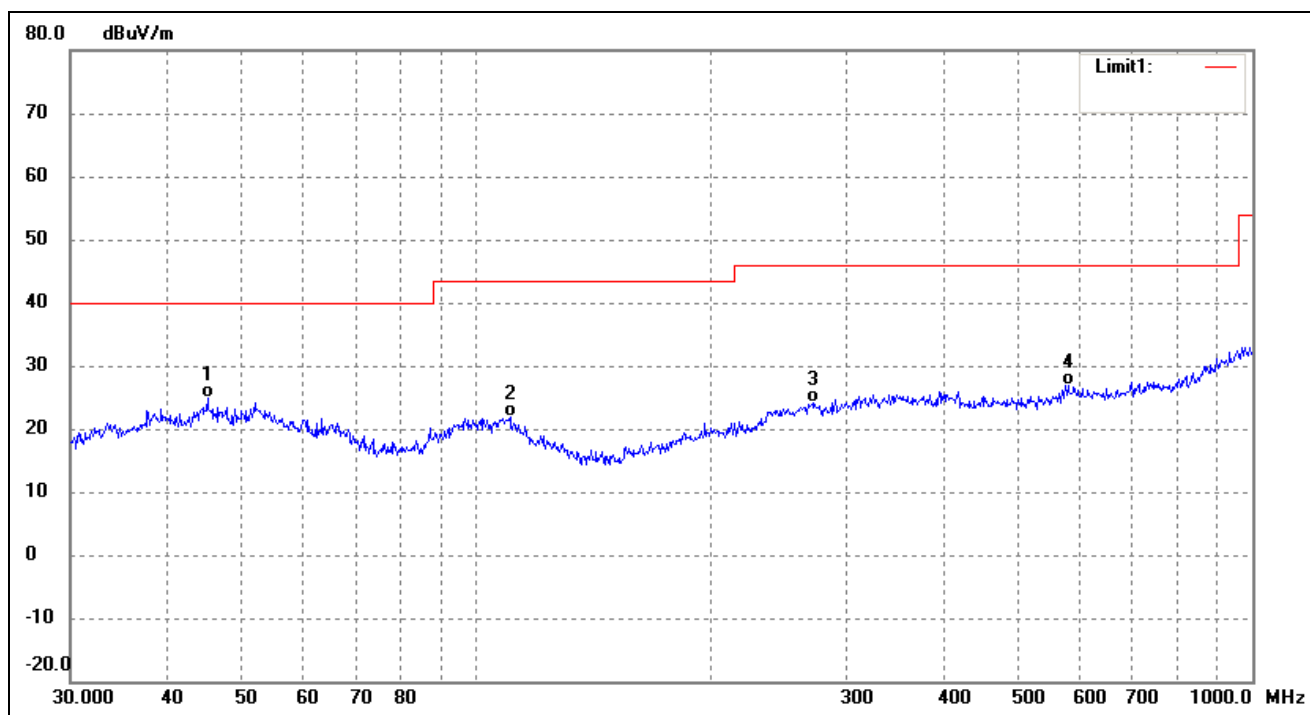
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	31.2893	48.47	-19.95	28.52	40.00	-11.48	180	100	QP
2	53.6932	45.86	-18.45	27.41	40.00	-12.59	132	100	QP
3	98.8326	49.48	-18.30	31.18	43.50	-12.32	96	100	QP
4	156.4578	44.52	-19.61	24.91	43.50	-18.59	191	100	QP
5	675.2080	30.54	-2.91	27.63	46.00	-18.37	146	100	QP
6	952.0937	32.80	-3.98	28.82	46.00	-17.18	196	100	QP

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	43.6584	36.22	-13.09	23.13	40.00	-16.87	162	100	QP
2	109.4116	35.34	-13.93	21.41	43.50	-22.09	144	100	QP
3	383.9318	31.85	-6.67	25.18	46.00	-20.82	77	100	QP
4	747.4826	31.41	-1.78	29.63	46.00	-16.37	126	100	QP

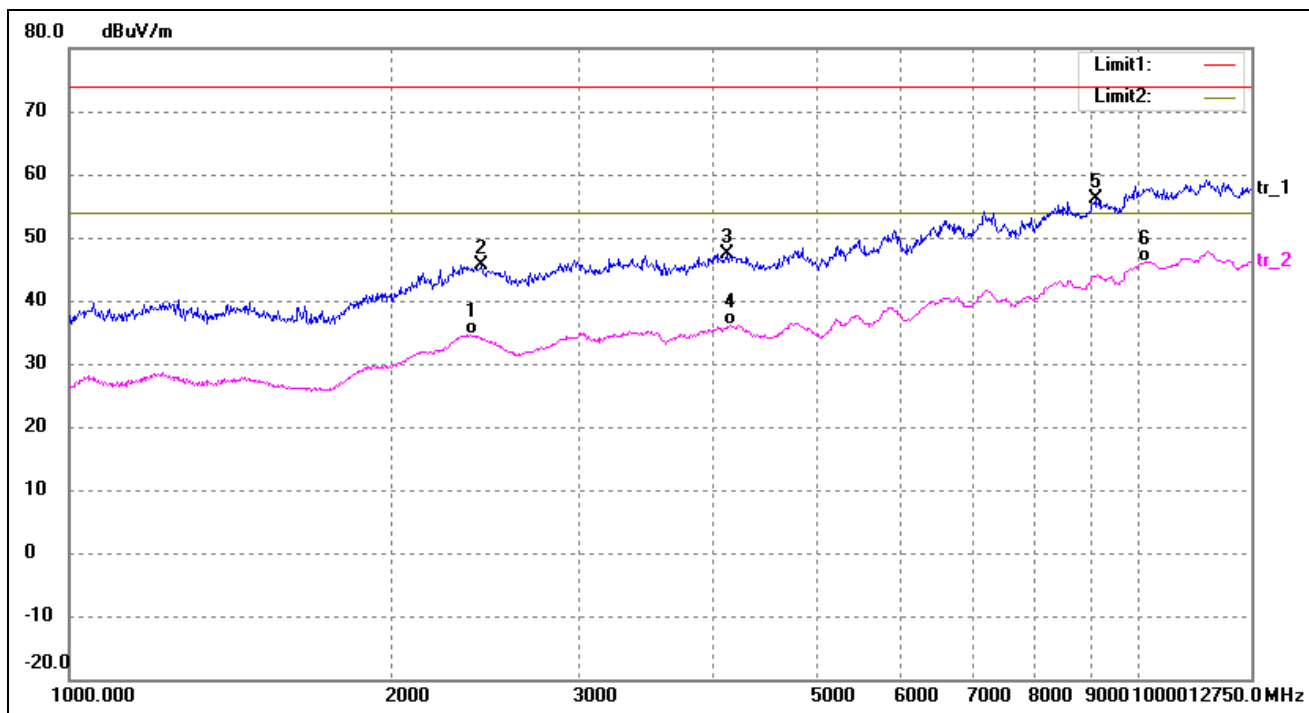
Test mode:	TM5	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.0583	37.95	-12.97	24.98	40.00	-15.02	185	100	QP
2	110.5687	35.99	-14.01	21.98	43.50	-21.52	111	100	QP
3	271.3245	32.83	-8.73	24.10	46.00	-21.90	201	100	QP
4	578.6698	31.22	-4.45	26.77	46.00	-19.23	265	100	QP

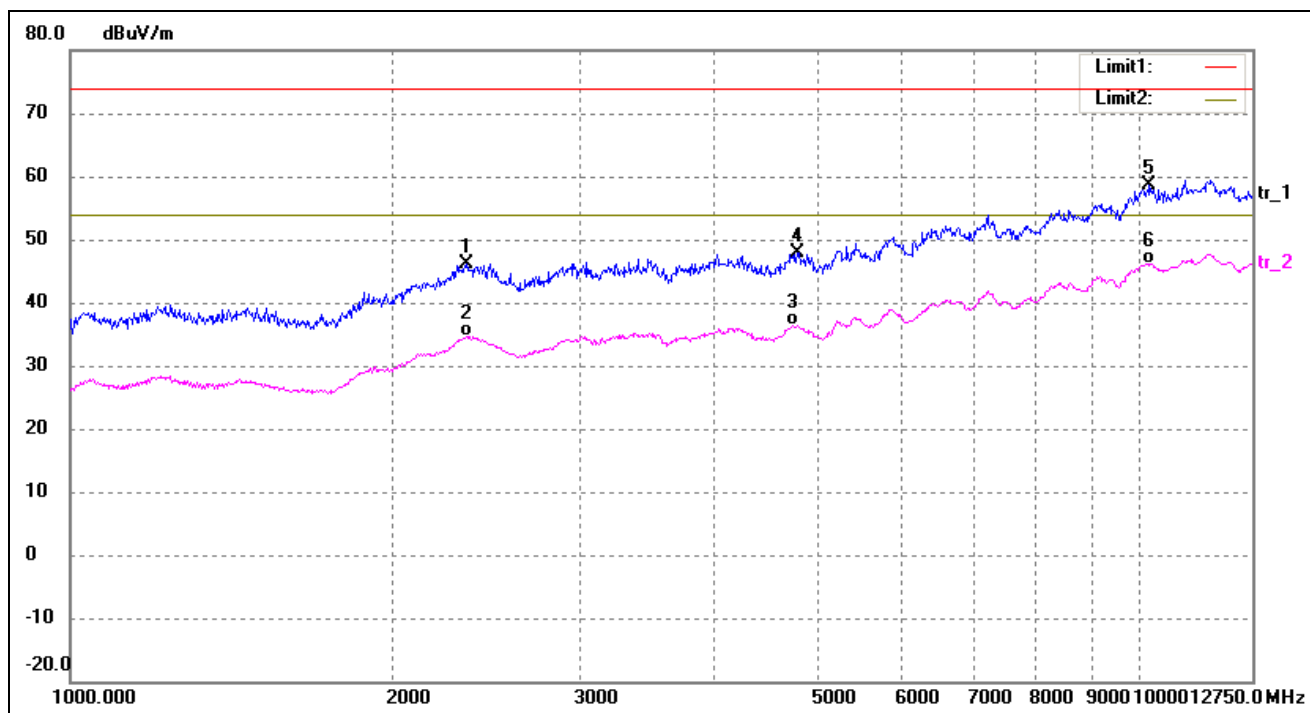
➤ Above 1GHz

Test mode:	TM1(worst case)	Polarity:	Horizontal
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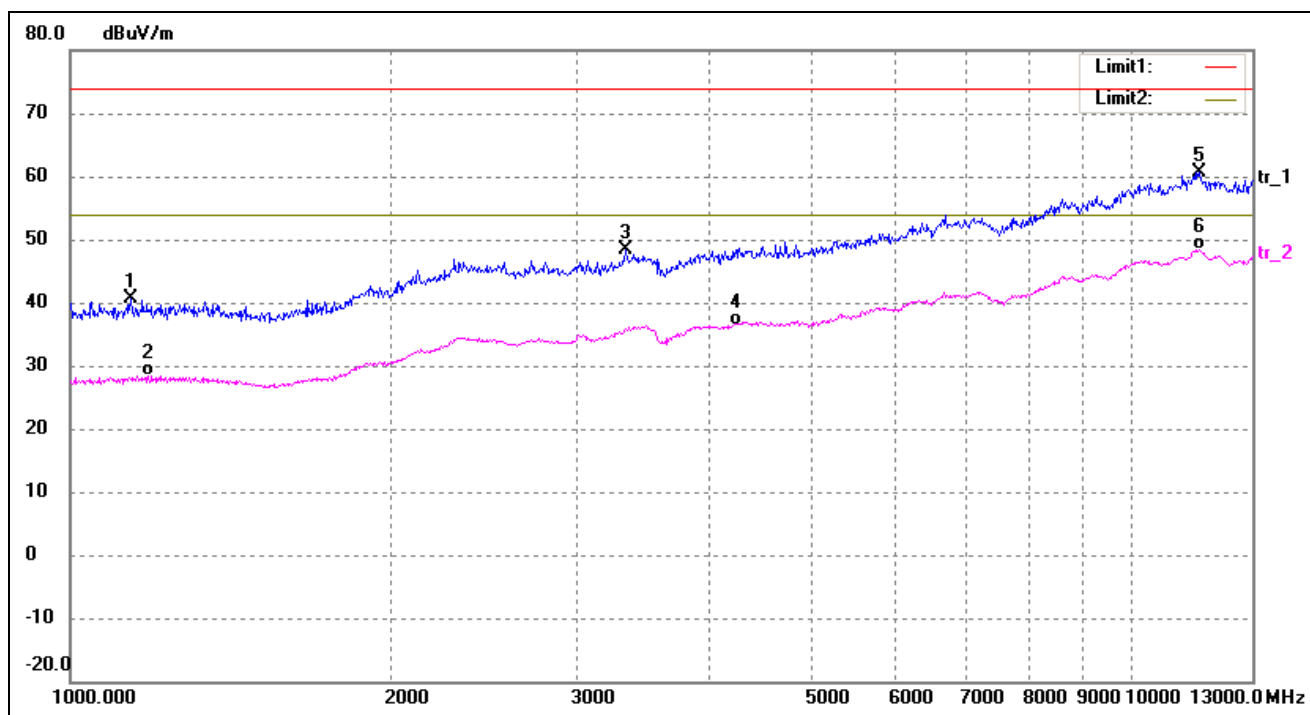
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	2370.107	42.01	-7.43	34.58	54.00	-19.42	215	100	AVG
2	2431.213	52.77	-7.07	45.70	74.00	-28.30	21	100	peak
3	4128.280	52.06	-4.66	47.40	74.00	-26.60	223	100	peak
4	4149.351	40.70	-4.61	36.09	54.00	-17.91	125	100	AVG
5	9111.352	51.64	4.47	56.11	74.00	-17.89	37	100	peak
6	10139.447	38.99	7.14	46.13	54.00	-7.87	178	100	AVG

Test mode:	TM1(worst case)	Polarity:	Vertical
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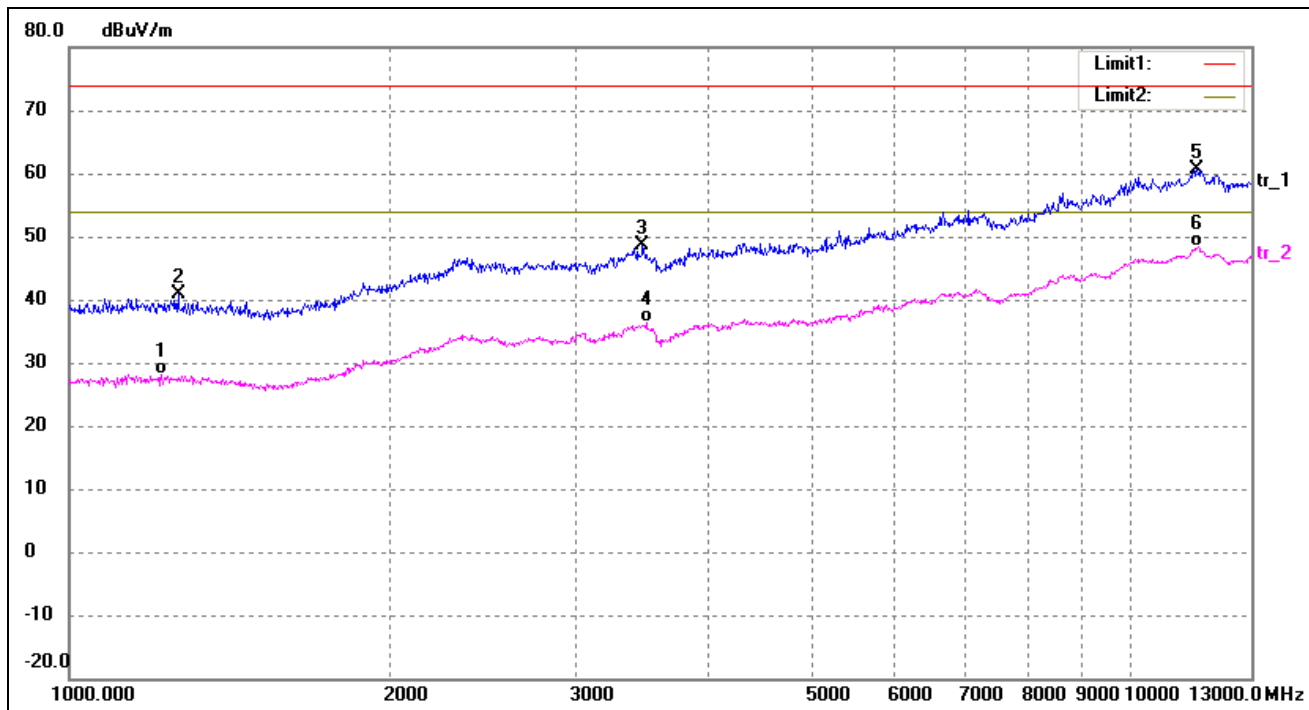
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	2346.097	53.81	-7.57	46.24	74.00	-27.76	121	100	peak
2	2352.076	42.14	-7.54	34.60	54.00	-19.40	165	100	AVG
3	4736.600	39.87	-3.58	36.29	54.00	-17.71	21	100	AVG
4	4785.075	51.37	-3.54	47.83	74.00	-26.17	198	100	peak
5	10217.174	51.60	7.13	58.73	74.00	-15.27	210	100	peak
6	10217.174	39.01	7.13	46.14	54.00	-7.86	159	100	AVG

Test mode:	TM5(worst case)	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	1139.754	54.57	-13.98	40.59	74.00	-33.41	94	100	peak
2	1184.460	42.31	-13.97	28.34	54.00	-25.66	75	100	AVG
3	3338.515	54.26	-5.77	48.49	74.00	-25.51	25	100	peak
4	4216.210	40.85	-4.45	36.40	54.00	-17.60	183	100	AVG
5	11582.862	51.76	8.97	60.73	74.00	-13.27	252	100	peak
6	11582.862	39.33	8.97	48.30	54.00	-5.70	147	100	AVG

Test mode:	TM5(worst case)	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	1221.483	42.06	-13.92	28.14	54.00	-25.86	223	100	AVG
2	1266.143	54.66	-13.81	40.85	74.00	-33.15	132	100	peak
3	3469.465	54.42	-5.72	48.70	74.00	-25.30	89	100	peak
4	3496.265	42.06	-5.71	36.35	54.00	-17.65	254	100	AVG
5	11553.191	51.55	8.99	60.54	74.00	-13.46	134	100	peak
6	11582.862	39.38	8.97	48.35	54.00	-5.65	226	100	AVG

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