



TESTING LABORATORY
CERTIFICATE#4323.01



FCC PART 15B MEASUREMENT AND TEST REPORT

For

Quanzhou Wouxun Electronics Co., Ltd.

Jiangnan High Technology Industry Park, No.928 Nanhuan Road, Quanzhou, Fujian, China

FCC ID: WVTWOUXUN23

Report Type: Original Report	Product Type: TWO-WAY RADIOS
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Quanzhou Wouxun Electronics Co., Ltd.
Test Model	KG-UV9D(Plus)
Series Model	KG-UV9D(E), KG-UV9D Mate, KG-UV9D Pro, KG-UV9T, KG-UV9T(Plus), KG-UV9T Pro, KG-UV9T Mate, KG-UV9P, KG-UV9P(Plus), KG-UV9P Pro, KG-UV9P Mate, KG-UV2Q, KG-UV2Q(Plus), KG-UV2Q Mate, KG-UV2Q Pro, KG-UV9H, KG-UV3Q, KG-UV9A, KG-UV9K, KG-UV9M, KG-UV9N, KG-UV10D, KG-UV10A, KG-UV10H, KG-UV10D(Plus), KG-UV10T, KG-UV10P, KG-UV10D Pro, KG-UV10D Mate, KG-UV10T(Plus), KG-A202, KG-A206, KG-A201, KG-A203, KG-A26, KG-A28, KG-A25, KG-A27, KG-A29, KG-Q332, KG-Q301, KG-Q331, KG-Q36, KG-Q38, KG-Q35, KG-Q37, KG-Q39
Model Difference	See Declaration letter
Product	TWO-WAY RADIOS
Rate Voltage	DC 7.4V from Battery and DC 12V from Adapter
Operating frequency range	TX:144-148MHz,420-450MHz RX:76-108MHz,108-136MHz,136-180MHz,230-250MHz,350-400MHz,400-512MHz, 700-824 MHz,849-869MHz, 894-960MHz
*Highest Operation Frequency	960 MHz

Adapter information:

Model: DSX-120050L-US

Input: AC 100-240V, 50/60Hz, 0.3A

Output: DC 12V, 0.5A

Note: The highest operating frequency was provided by the applicant.*

**All measurement and test data in this report was gathered from production sample serial number: RXM210322051-1. (Assigned by the BA CL. The EUT supplied by the applicant was received on 2021-03-22)*

Objective

This report is prepared on behalf of *Quanzhou Wouxun Electronics Co., Ltd.* in accordance with Part 2-Subpart J, and Part 15-Subparts A and B of the Federal Communication Commission’s rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15, Class B device.

Related Submittal(s)/Grant(s)

No related submittal(s).

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.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

Test mode 1: Charging (Worst case)

Test mode 2: Scan receiver mode

Test Mode 3: Receive at 76MHz

Test Mode 4: Receive at 92MHz

Test Mode 5: Receive at 108MHz

Test Mode 6: Receive at 122MHz

Test Mode 7: Receive at 136MHz

Test Mode 8: Receive at 158MHz

Test Mode 9: Receive at 180MHz

Test Mode 10: Receive at 230MHz

Test Mode 11: Receive at 240MHz

Test Mode 12: Receive at 250MHz

Test Mode 13: Receive at 350MHz

Test Mode 14: Receive at 375MHz

Test Mode 15: Receive at 400MHz

Test Mode 16: Receive at 456MHz

Test Mode 17: Receive at 512MHz

Test Mode 18: Receive at 700MHz

Test Mode 19: Receive at 762MHz

Test Mode 20: Receive at 823MHz

Test Mode 21: Receive at 850MHz

Test Mode 22: Receive at 859MHz

Test Mode 23: Receive at 868MHz

Test Mode 24: Receive at 895MHz

Test Mode 25: Receive at 927MHz

Test Mode 26: Receive at 960MHz

EUT Exercise Software

No exercise software.

Special Accessories

No special accessory was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

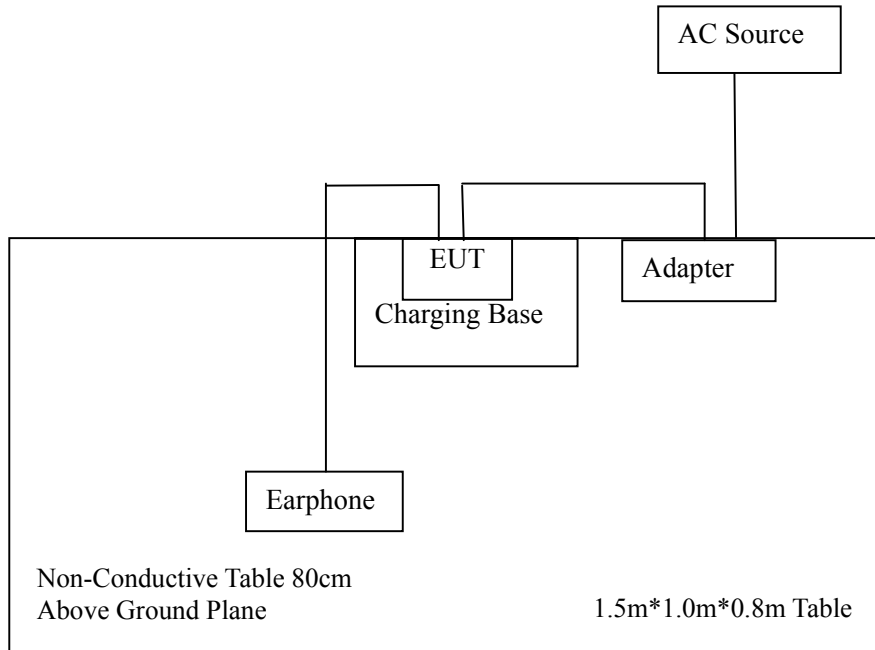
Manufacturer	Description	Model	Serial Number
WouXun	Earphone	/	/
Rohde & Schwarz	Signal Generator	E4428C	110390

External I/O Cable

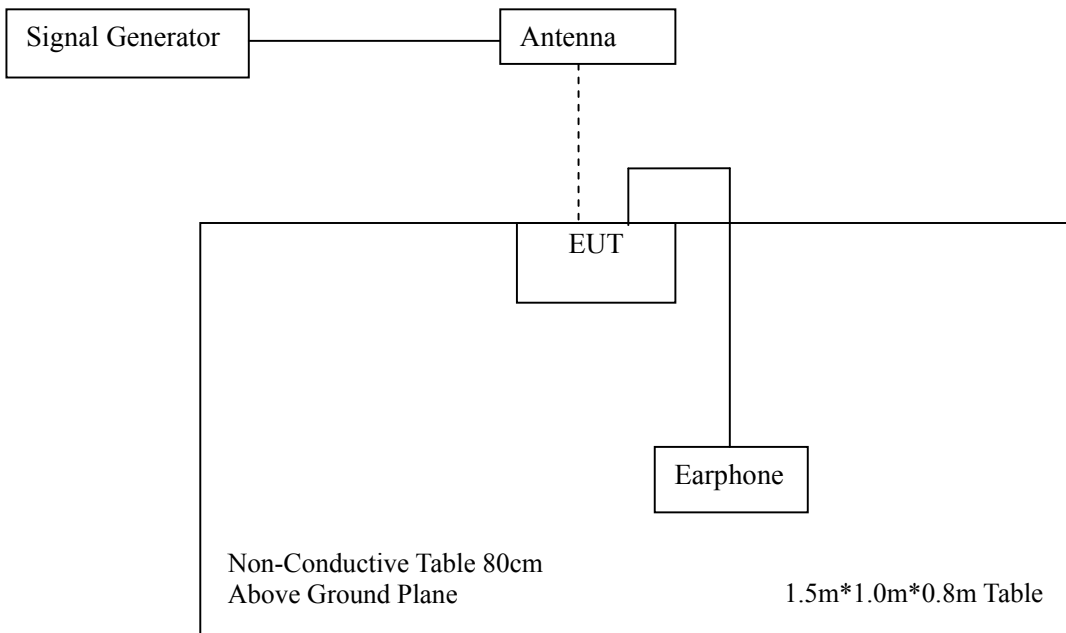
Cable Description	Length (m)	From Port	To Port
Power Cable1	1.0	Charging Base	Adapter
Power Cable2	1.0	Adapter	AC Source
Audio Cable	1.2	EUT	Earphone

Block Diagram of Radiated Test Setup

Test Mode 1:



Test Mode 2-26:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	Conducted Emissions	Compliant
§15.109	Radiated Emissions	Compliant
§15.111	Antenna Conducted Power for receivers	Compliant
§15.121(b)	Scanning receivers and frequency converters used with scanning receivers	Compliant

FCC §15.107 – CONDUCTED EMISSIONS

Applicable Standard

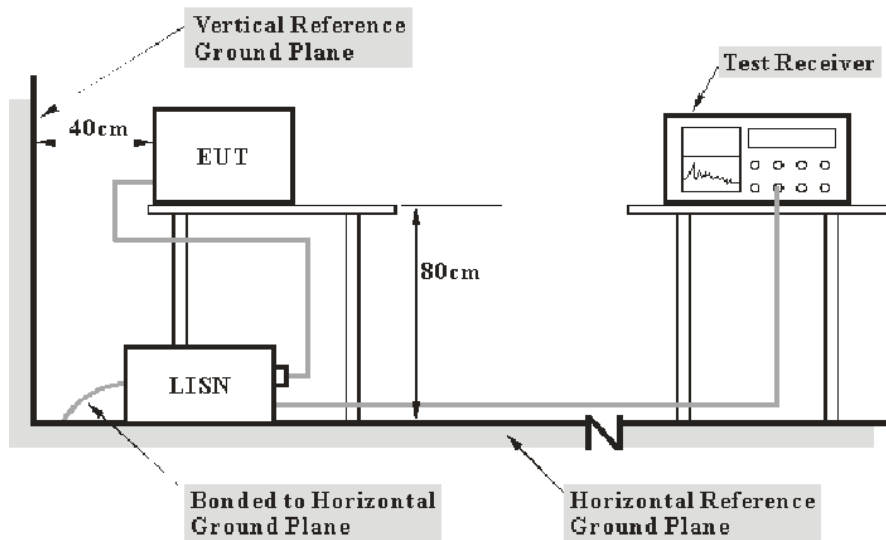
According to FCC§15.107

Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Item	Measurement Uncertainty	U_{cispr}
Conducted Emission	150kHz~30MHz	3.19 dB

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

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.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2020-07-28	2021-07-27
Rohde & Schwarz	LISN	ENV216	101115	2020-11-27	2021-11-26
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2020-08-10	2021-08-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2020-08-15	2021-08-14

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Factor & Over Limit Calculation

The Factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of 7dB means the emission is 7 dB above the limit. The equation for over limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)} - \text{Limit (dB}\mu\text{V)}$$

Test Data

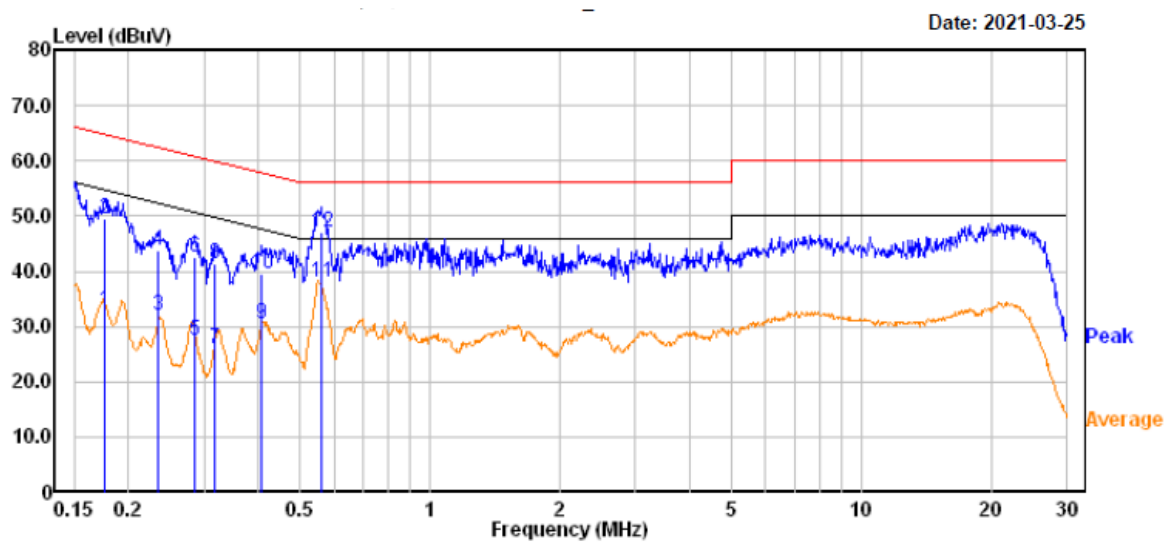
Environmental Conditions

Temperature:	24.2 °C
Relative Humidity:	46 %
ATM Pressure:	101.2 kPa

The testing was performed by Gerry Xing on 2021-03-25.

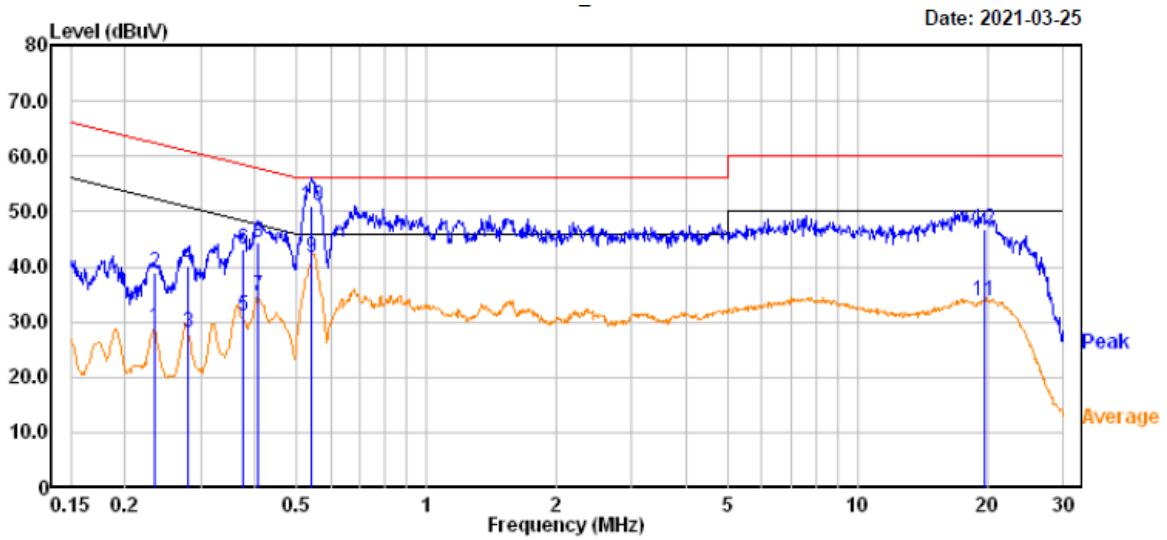
Test mode 1:

Line:



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.176	13.00	19.83	32.83	54.68	-21.85	Average
2	0.176	29.60	19.83	49.43	64.68	-15.25	QP
3	0.235	12.17	19.82	31.99	52.27	-20.28	Average
4	0.235	24.06	19.82	43.88	62.27	-18.39	QP
5	0.285	7.76	19.82	27.58	50.66	-23.08	Average
6	0.285	22.69	19.82	42.51	60.66	-18.15	QP
7	0.318	6.15	19.82	25.97	49.75	-23.78	Average
8	0.318	21.42	19.82	41.24	59.75	-18.51	QP
9	0.409	10.80	19.74	30.54	47.68	-17.14	Average
10	0.409	19.71	19.74	39.45	57.68	-18.23	QP
11	0.559	18.20	19.75	37.95	46.00	-8.05	Average
12	0.559	27.40	19.75	47.15	56.00	-8.85	QP

Neutral:



	Read Freq	Read Level	Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dB	
1	0.234	9.05	19.82	28.87	52.32	-23.45 Average
2	0.234	19.01	19.82	38.83	62.32	-23.49 QP
3	0.280	8.32	19.82	28.14	50.83	-22.69 Average
4	0.280	20.21	19.82	40.03	60.83	-20.80 QP
5	0.377	11.39	19.77	31.16	48.34	-17.18 Average
6	0.377	23.29	19.77	43.06	58.34	-15.28 QP
7	0.409	15.00	19.74	34.74	47.68	-12.94 Average
8	0.409	24.60	19.74	44.34	57.68	-13.34 QP
9	0.540	21.91	19.75	41.66	46.00	-4.34 Average
10	0.540	31.21	19.75	50.96	56.00	-5.04 QP
11	19.639	13.92	19.93	33.85	50.00	-16.15 Average
12	19.639	26.88	19.93	46.81	60.00	-13.19 QP

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

FCC §15.109 - RADIATED EMISSIONS

Applicable Standard

FCC §15.109

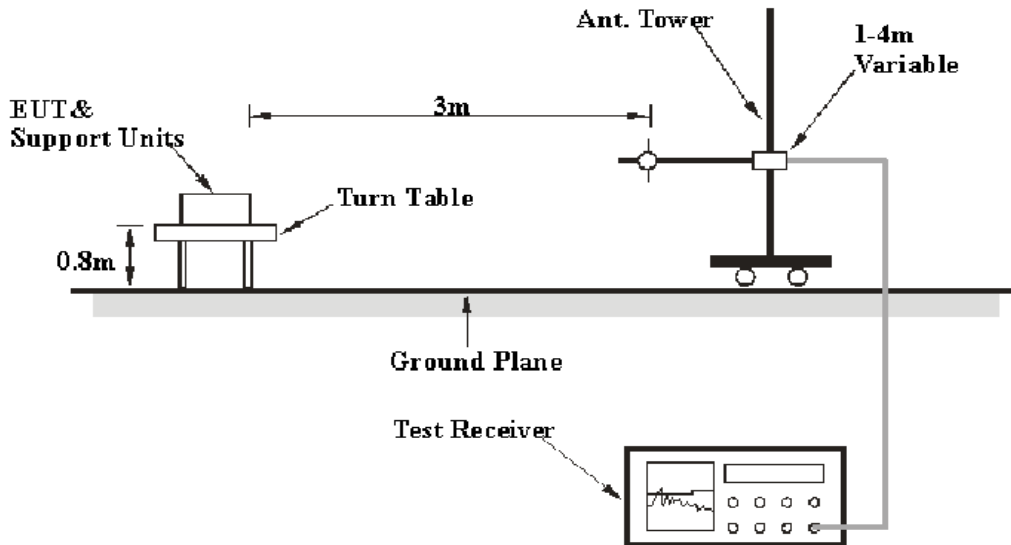
Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average) and system repeatability.

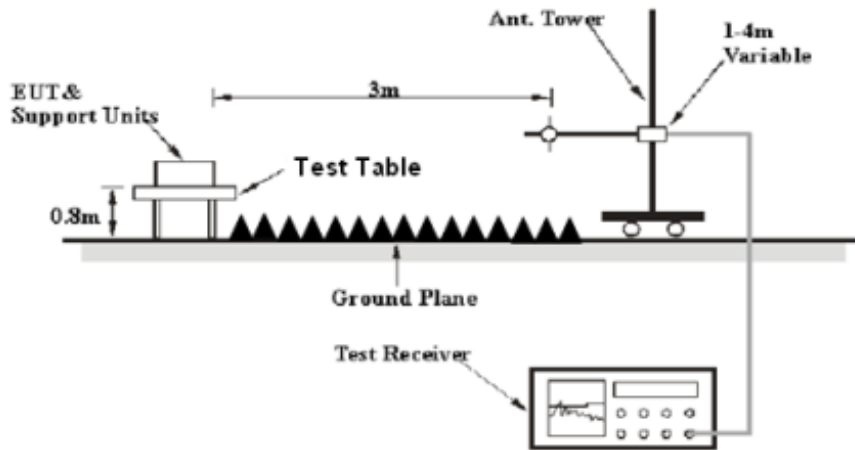
Item		Measurement Uncertainty	U_{cispr}
Radiated Emissions	30MHz~1GHz	6.11dB	6.3 dB
	1GHz~6GHz	4.45dB	5.2 dB

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

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.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30MHz – 1000 MHz	120 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	1MHz	AVG

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz, Peak and average detection mode above 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sonoma Instrument	Amplifier	310N	185700	2020-08-14	2021-08-13
Rohde & Schwarz	EMI Test Receiver	ESR	102454	2020-11-27	2021-11-26
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2020-08-05	2023-08-04
Albatross	Chamber 3#	3m-SAC 966	N/A	2019-07-02	2022-07-01
Audix	Test Software	e3	V9	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-11	011	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2020-08-15	2021-08-14
A.H. Systems, inc.	Amplifier	PAM-0118P	512	2020-08-14	2021-08-13
Albatross	Chamber 2#	3m-SAC 966	N/A	2019-05-08	2022-05-07
ETS	Horn Antenna	3115	9311-4159	2020-07-15	2023-07-14
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2020-04-01	2021-03-31
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-4	004	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-5	005	2020-08-15	2021-08-14

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Factor & Over Limit Calculation – For Below 1GHz

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)} - \text{Limit (dB}\mu\text{V)}$$

Corrected Amplitude & Margin Calculation – For Above 1GHz

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

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Data

Environmental Conditions

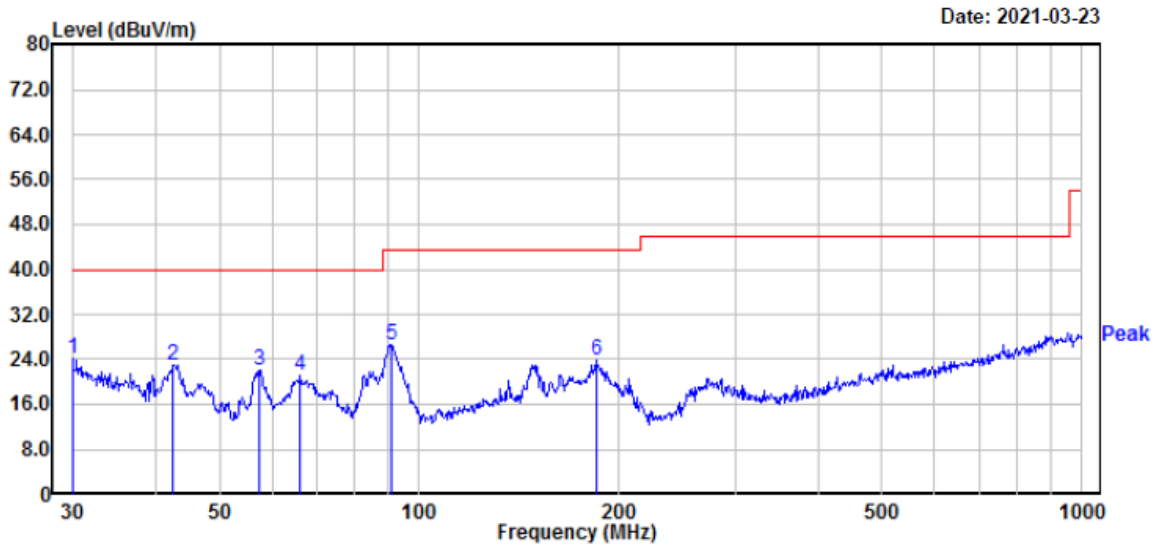
Temperature:	25.2 °C
Relative Humidity:	51 %
ATM Pressure:	101.5 kPa

The testing was performed by Gerry Xing from 2021-03-23 to 2021-03-26.

Test mode 1:

1)30MHz ~ 1GHz

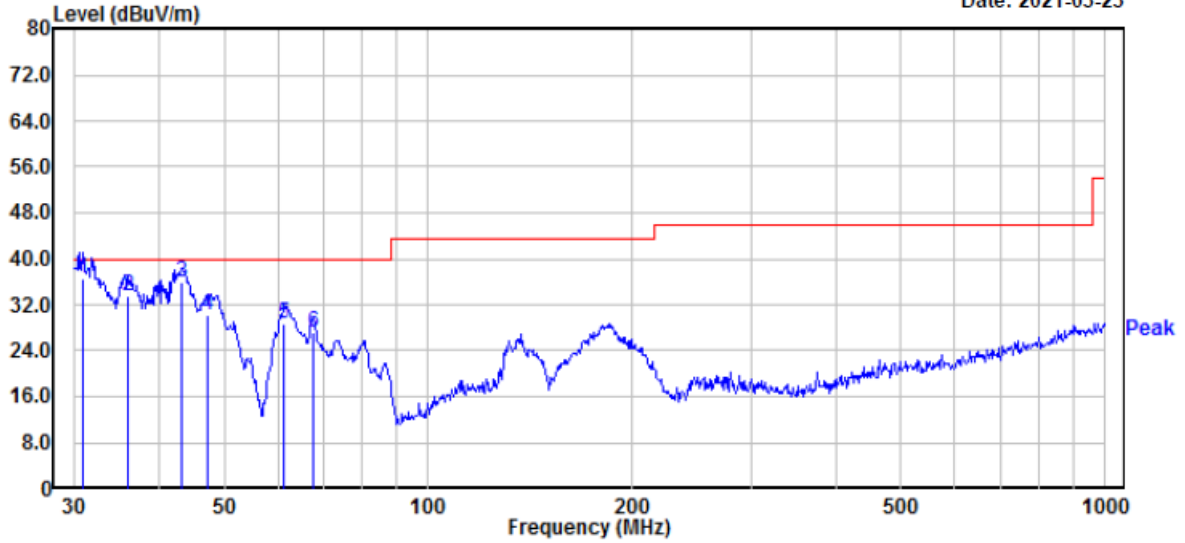
Horizontal:



	Read Freq	Read Level	Read Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.00	28.30	-4.24	24.06	40.00	-15.94	100	108	Peak
2	42.60	36.28	-13.30	22.98	40.00	-17.02	100	77	Peak
3	57.39	41.28	-19.27	22.01	40.00	-17.99	200	100	Peak
4	66.27	38.01	-16.88	21.13	40.00	-18.87	200	100	Peak
5	90.86	43.47	-16.99	26.48	43.50	-17.02	200	125	Peak
6	185.14	35.58	-11.88	23.70	43.50	-19.80	100	219	Peak

Vertical:

Date: 2021-03-23

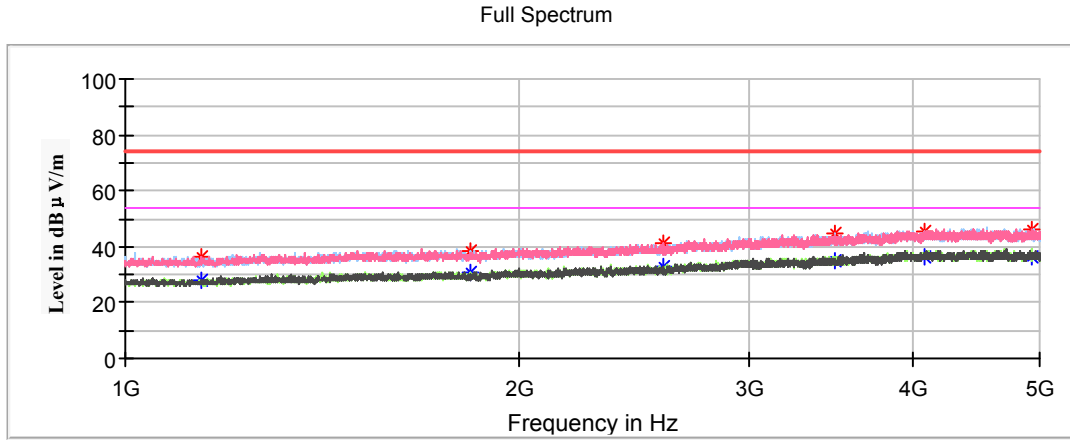


	Read Freq	Read Level	Factor	Limit Level	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	30.85	41.29	-4.83	36.46	40.00	-3.54	100	85 QP
2	36.13	42.20	-8.56	33.64	40.00	-6.36	100	135 QP
3	43.35	49.90	-13.85	36.05	40.00	-3.95	100	116 QP
4	47.16	46.40	-16.12	30.28	40.00	-9.72	100	31 QP
5	61.35	48.31	-19.70	28.61	40.00	-11.39	100	300 QP
6	67.68	43.90	-16.74	27.16	40.00	-12.84	100	214 QP

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBµV/m)	Average (dBµV/m)						
1143.200000	---	28.00	54.00	26.00	100.0	H	148.0	-11.6
1143.200000	36.66	---	74.00	37.34	100.0	H	148.0	-11.6
1838.000000	---	30.91	54.00	23.09	100.0	H	238.0	-8.2
1838.000000	38.73	---	74.00	35.27	100.0	H	238.0	-8.2
2574.400000	---	32.72	54.00	21.28	200.0	V	77.0	-5.4
2574.400000	41.59	---	74.00	32.41	200.0	V	77.0	-5.4
3482.400000	---	34.89	54.00	19.11	100.0	H	228.0	-1.8
3482.400000	44.76	---	74.00	29.24	100.0	H	228.0	-1.8
4078.000000	---	36.40	54.00	17.60	100.0	H	261.0	0.5
4078.000000	45.62	---	74.00	28.38	100.0	H	261.0	0.5
4934.400000	---	36.70	54.00	17.30	200.0	V	206.0	1.1
4934.400000	46.34	---	74.00	27.66	200.0	V	206.0	1.1

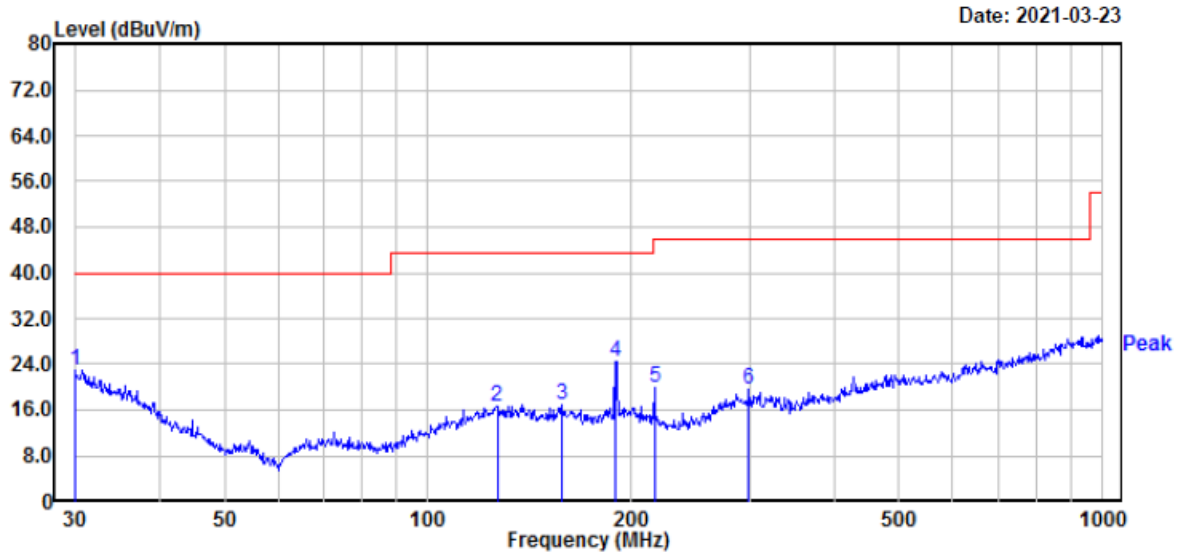
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 2:

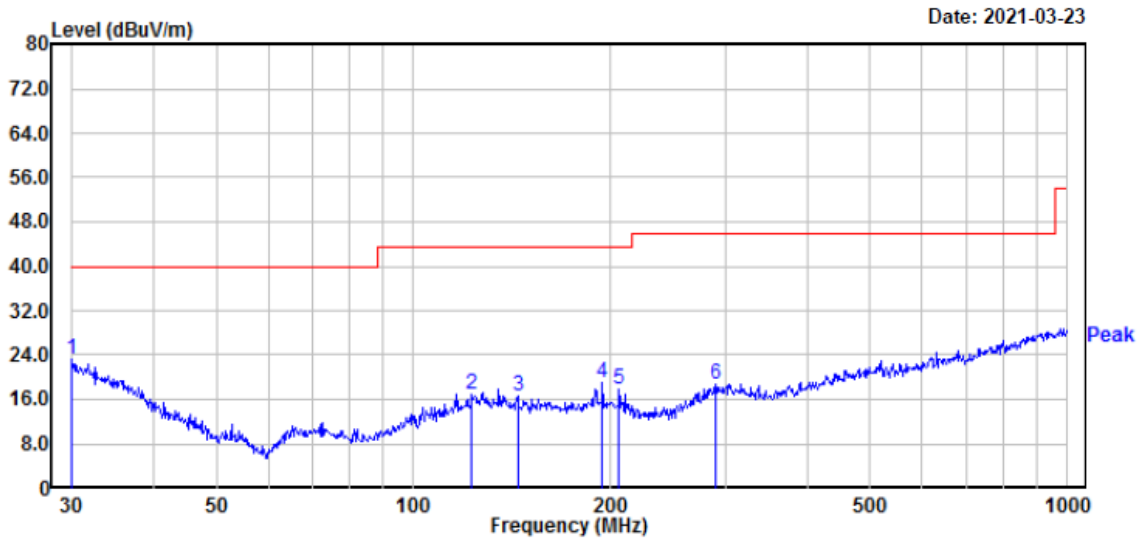
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.00	27.25	-4.24	23.01	40.00	-16.99	200	63	Peak
2	126.77	27.57	-10.87	16.70	43.50	-26.80	200	342	Peak
3	158.11	28.64	-11.61	17.03	43.50	-26.47	100	311	Peak
4	189.74	36.09	-11.61	24.48	43.50	-19.02	100	131	Peak
5	216.78	32.75	-12.70	20.05	46.00	-25.95	100	137	Peak
6	299.32	28.11	-8.63	19.48	46.00	-26.52	100	230	Peak

Vertical:



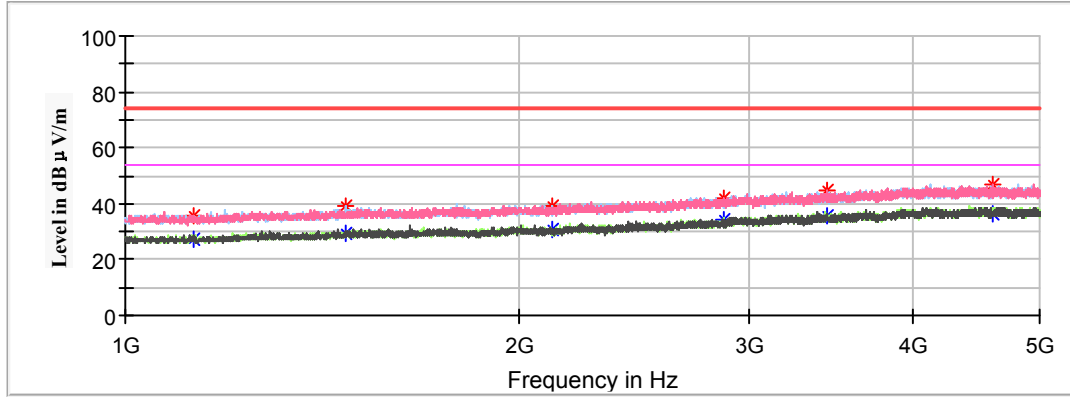
	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	27.68	-4.32	23.36	40.00	-16.64	200	0	Peak
2	122.83	28.12	-11.11	17.01	43.50	-26.49	100	29	Peak
3	144.33	28.34	-11.68	16.66	43.50	-26.84	200	136	Peak
4	194.45	30.48	-11.33	19.15	43.50	-24.35	200	218	Peak
5	206.40	29.38	-11.66	17.72	43.50	-25.78	200	181	Peak
6	290.02	27.73	-9.14	18.59	46.00	-27.41	100	166	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

Above 1 GHz:

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBµV/m)	Average (dBµV/m)						
1129.200000	---	27.50	54.00	26.50	100.0	H	254.0	-11.7
1129.200000	35.91	---	74.00	38.09	100.0	H	254.0	-11.7
1474.400000	---	29.35	54.00	24.65	100.0	H	9.0	-9.6
1474.400000	39.09	---	74.00	34.91	100.0	H	9.0	-9.6
2122.400000	---	30.77	54.00	23.23	200.0	H	330.0	-7.2
2122.400000	39.47	---	74.00	34.53	200.0	H	330.0	-7.2
2867.600000	---	34.58	54.00	19.42	100.0	V	280.0	-3.9
2867.600000	41.63	---	74.00	32.37	100.0	V	280.0	-3.9
3445.200000	---	35.52	54.00	18.48	100.0	H	84.0	-1.9
3445.200000	44.90	---	74.00	29.10	100.0	H	84.0	-1.9
4598.400000	---	36.65	54.00	17.35	200.0	V	270.0	1.0
4598.400000	46.53	---	74.00	27.47	200.0	V	270.0	1.0

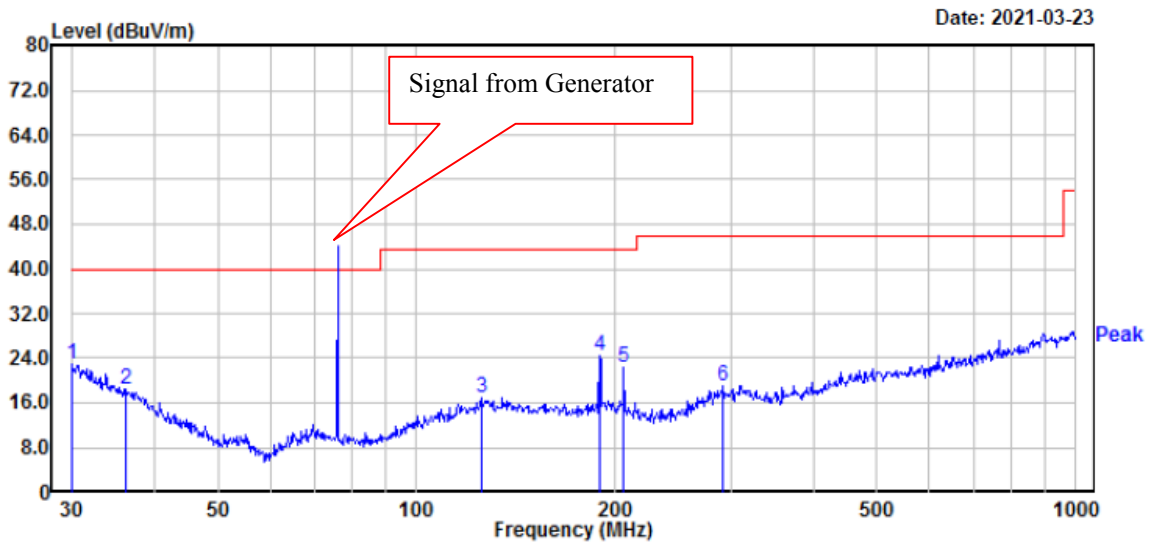
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 3:

1)30MHz ~ 1GHz

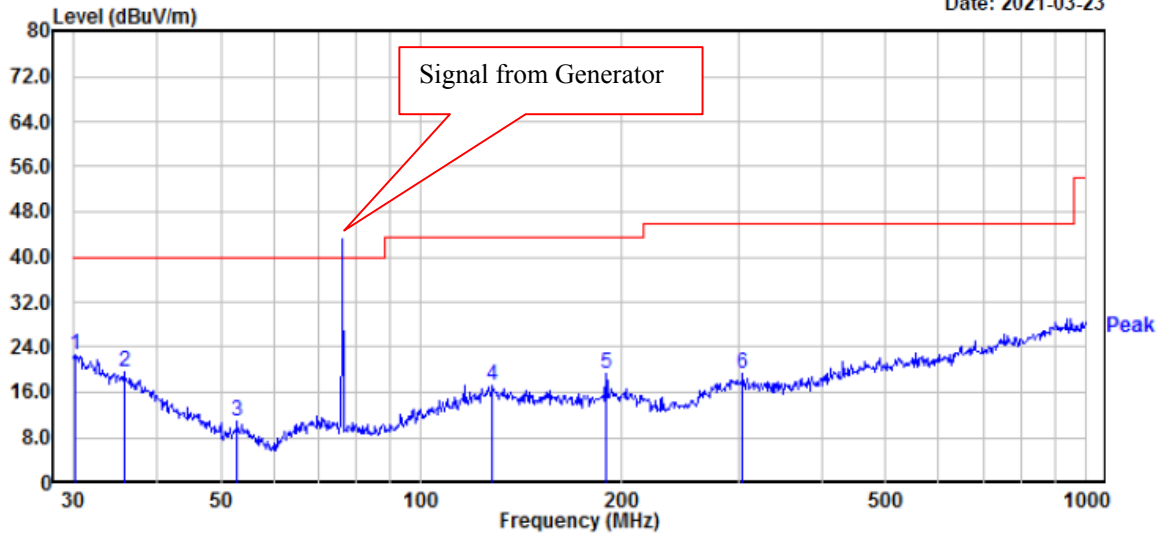
Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	27.41	-4.32	23.09	40.00	-16.91	200	307	Peak
2	36.25	27.08	-8.66	18.42	40.00	-21.58	100	341	Peak
3	125.45	27.76	-10.80	16.96	43.50	-26.54	100	298	Peak
4	189.74	36.15	-11.61	24.54	43.50	-18.96	200	143	Peak
5	206.40	34.10	-11.66	22.44	43.50	-21.06	100	206	Peak
6	292.06	27.91	-9.02	18.89	46.00	-27.11	100	1	Peak

Vertical:

Date: 2021-03-23

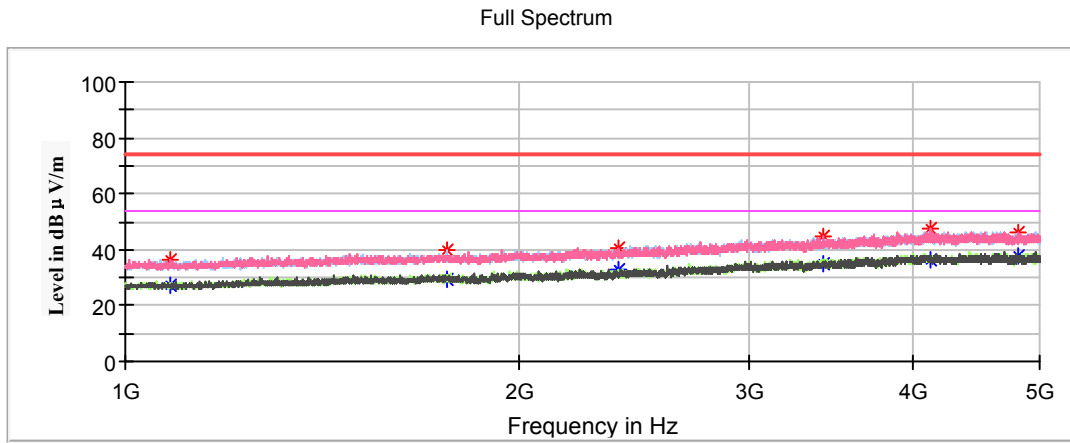


	Read Freq	Read Level	Factor	Limit Level	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	30.21	26.95	-4.39	22.56	40.00	-17.44	200	222 Peak
2	35.75	27.80	-8.28	19.52	40.00	-20.48	200	172 Peak
3	52.95	28.58	-17.79	10.79	40.00	-29.21	100	359 Peak
4	128.11	28.11	-10.93	17.18	43.50	-26.32	200	30 Peak
5	189.74	30.81	-11.61	19.20	43.50	-24.30	200	197 Peak
6	304.61	28.08	-8.67	19.41	46.00	-26.59	200	80 Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dB μ V/m)	Average (dB μ V/m)						
1083.200000	---	27.43	54.00	26.57	200.0	V	186.0	-12.0
1083.200000	36.45	---	74.00	37.55	200.0	V	186.0	-12.0
1758.800000	---	29.62	54.00	24.38	100.0	H	34.0	-8.5
1758.800000	39.77	---	74.00	34.23	100.0	H	34.0	-8.5
2378.800000	---	32.69	54.00	21.31	100.0	H	241.0	-6.3
2378.800000	40.71	---	74.00	33.29	100.0	H	241.0	-6.3
3420.400000	---	35.16	54.00	18.84	100.0	V	345.0	-2.0
3420.400000	44.75	---	74.00	29.25	100.0	V	345.0	-2.0
4128.400000	---	36.70	54.00	17.30	200.0	V	38.0	0.5
4128.400000	47.23	---	74.00	26.77	200.0	V	38.0	0.5
4819.600000	---	37.85	54.00	16.15	100.0	H	222.0	1.0
4819.600000	45.84	---	74.00	28.16	100.0	H	222.0	1.0

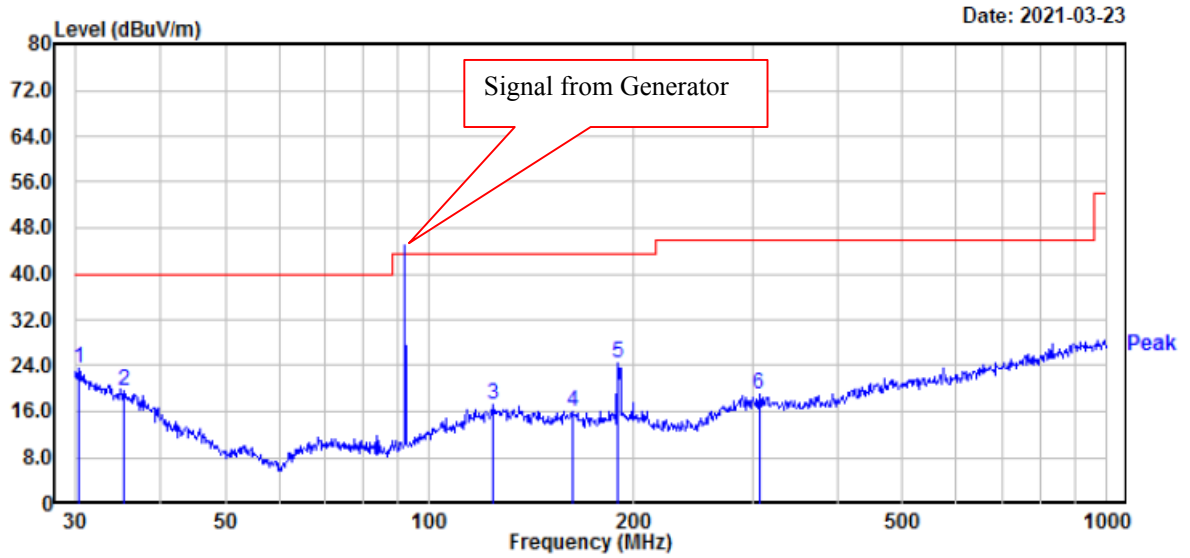
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 4:

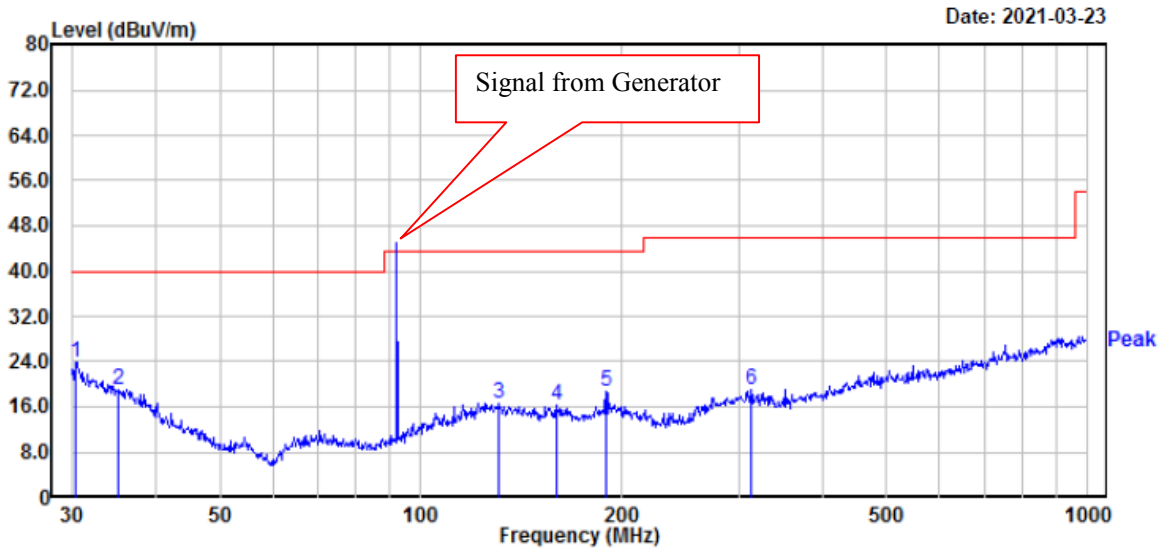
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.32	27.91	-4.47	23.44	40.00	-16.56	200	357	Peak
2	35.50	27.68	-8.11	19.57	40.00	-20.43	200	204	Peak
3	124.13	28.09	-10.91	17.18	43.50	-26.32	100	42	Peak
4	162.61	27.68	-11.69	15.99	43.50	-27.51	200	87	Peak
5	189.74	36.02	-11.61	24.41	43.50	-19.09	200	124	Peak
6	306.75	27.76	-8.71	19.05	46.00	-26.95	100	25	Peak

Vertical:

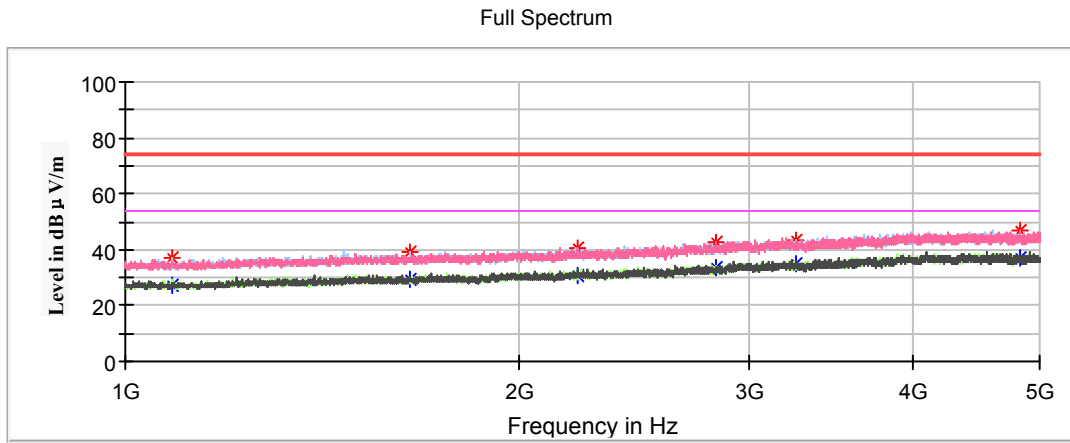


	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.32	28.21	-4.47	23.74	40.00	-16.26	200	356	Peak
2	35.25	27.08	-7.93	19.15	40.00	-20.85	200	294	Peak
3	131.30	27.69	-11.08	16.61	43.50	-26.89	100	311	Peak
4	160.35	27.75	-11.55	16.20	43.50	-27.30	100	105	Peak
5	189.74	30.25	-11.61	18.64	43.50	-24.86	200	190	Peak
6	313.28	27.79	-8.83	18.96	46.00	-27.04	200	331	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1086.000000	36.87	---	74.00	37.13	100.0	H	213.0	-12.0
1086.000000	---	27.44	54.00	26.56	100.0	H	213.0	-12.0
1651.200000	38.95	---	74.00	35.05	100.0	H	237.0	-8.9
1651.200000	---	29.33	54.00	24.67	100.0	H	237.0	-8.9
2216.000000	40.37	---	74.00	33.63	200.0	V	101.0	-6.9
2216.000000	---	30.98	54.00	23.02	200.0	V	101.0	-6.9
2825.200000	42.36	---	74.00	31.64	100.0	V	37.0	-4.1
2825.200000	---	33.42	54.00	20.58	100.0	V	37.0	-4.1
3256.800000	43.57	---	74.00	30.43	100.0	H	155.0	-2.5
3256.800000	---	35.21	54.00	18.79	100.0	H	155.0	-2.5
4829.200000	---	36.85	54.00	17.15	200.0	H	264.0	1.0
4829.200000	46.69	---	74.00	27.31	200.0	H	264.0	1.0

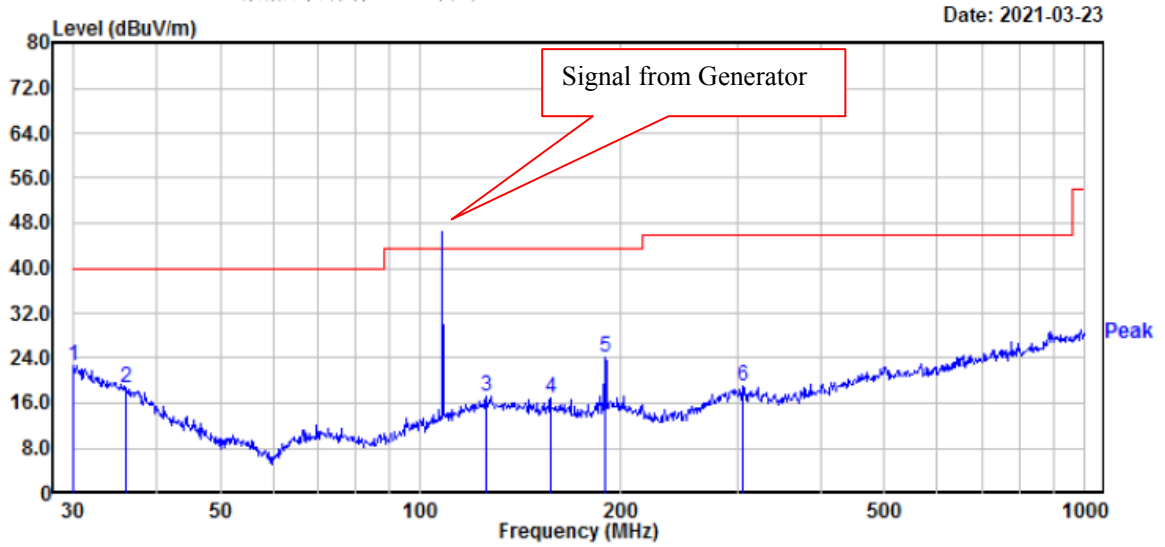
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 5:

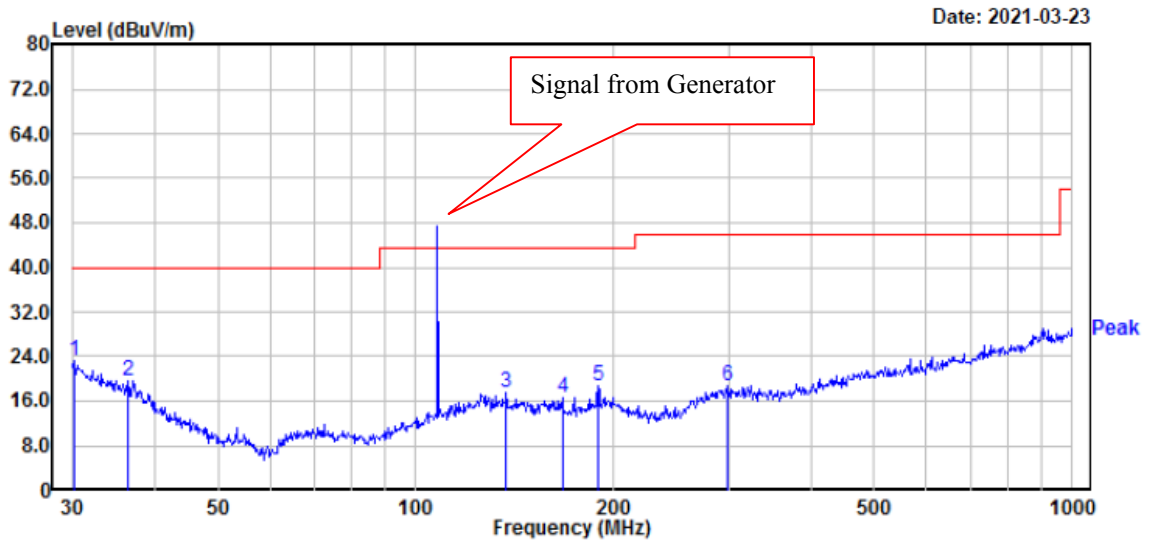
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.00	26.94	-4.24	22.70	40.00	-17.30	100	356	Peak
2	36.13	27.16	-8.56	18.60	40.00	-21.40	200	337	Peak
3	125.89	28.06	-10.83	17.23	43.50	-26.27	100	239	Peak
4	157.01	28.44	-11.66	16.78	43.50	-26.72	100	108	Peak
5	189.74	35.62	-11.61	24.01	43.50	-19.49	100	128	Peak
6	305.68	27.60	-8.70	18.90	46.00	-27.10	200	68	Peak

Vertical:

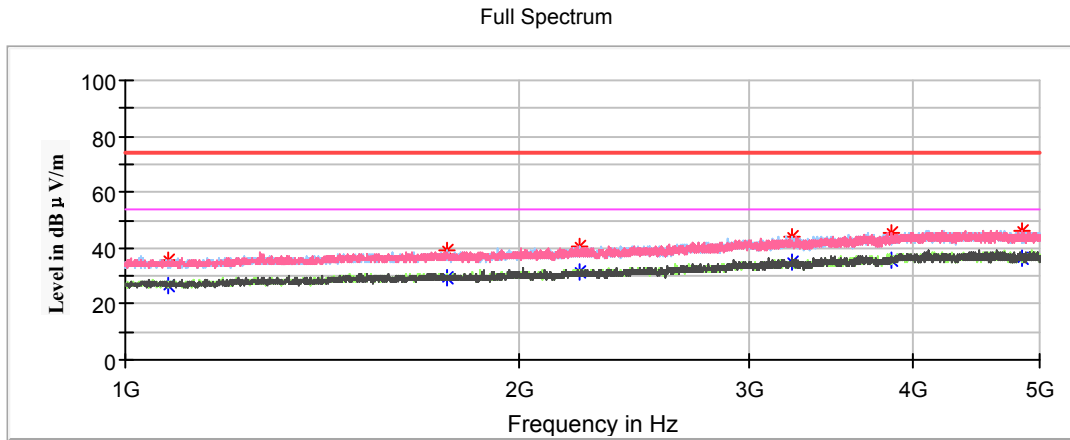


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.21	27.65	-4.39	23.26	40.00	-16.74	200	318	Peak
2	36.38	28.44	-8.75	19.69	40.00	-20.31	200	239	Peak
3	137.42	28.73	-11.37	17.36	43.50	-26.14	200	300	Peak
4	167.24	28.46	-11.99	16.47	43.50	-27.03	100	10	Peak
5	189.74	30.47	-11.61	18.86	43.50	-24.64	200	178	Peak
6	298.27	27.38	-8.68	18.70	46.00	-27.30	100	360	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1080.000000	---	26.74	54.00	27.26	200.0	V	292.0	-12.0
1080.000000	35.38	---	74.00	38.62	200.0	V	292.0	-12.0
1759.200000	---	29.63	54.00	24.37	100.0	H	247.0	-8.5
1759.200000	38.88	---	74.00	35.12	100.0	H	247.0	-8.5
2225.200000	---	31.60	54.00	22.40	200.0	V	231.0	-6.8
2225.200000	40.87	---	74.00	33.13	200.0	V	231.0	-6.8
3237.600000	---	34.86	54.00	19.14	100.0	H	285.0	-2.5
3237.600000	44.09	---	74.00	29.91	100.0	H	285.0	-2.5
3852.800000	---	35.88	54.00	18.12	200.0	H	280.0	-0.2
3852.800000	45.77	---	74.00	28.23	200.0	H	280.0	-0.2
4840.400000	---	36.42	54.00	17.58	100.0	V	178.0	1.0
4840.400000	46.29	---	74.00	27.71	100.0	V	178.0	1.0

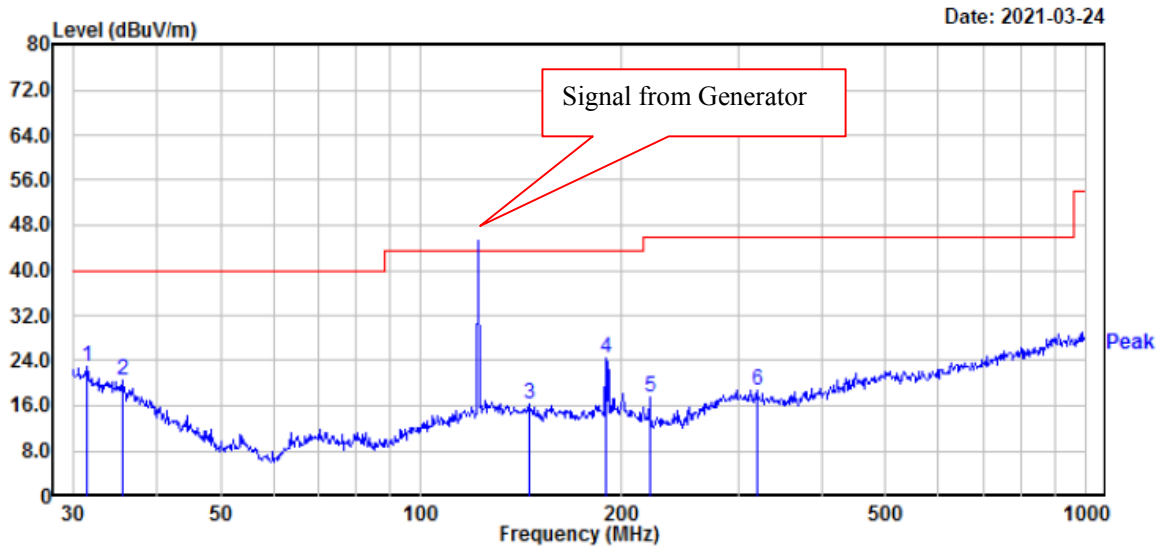
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 6:

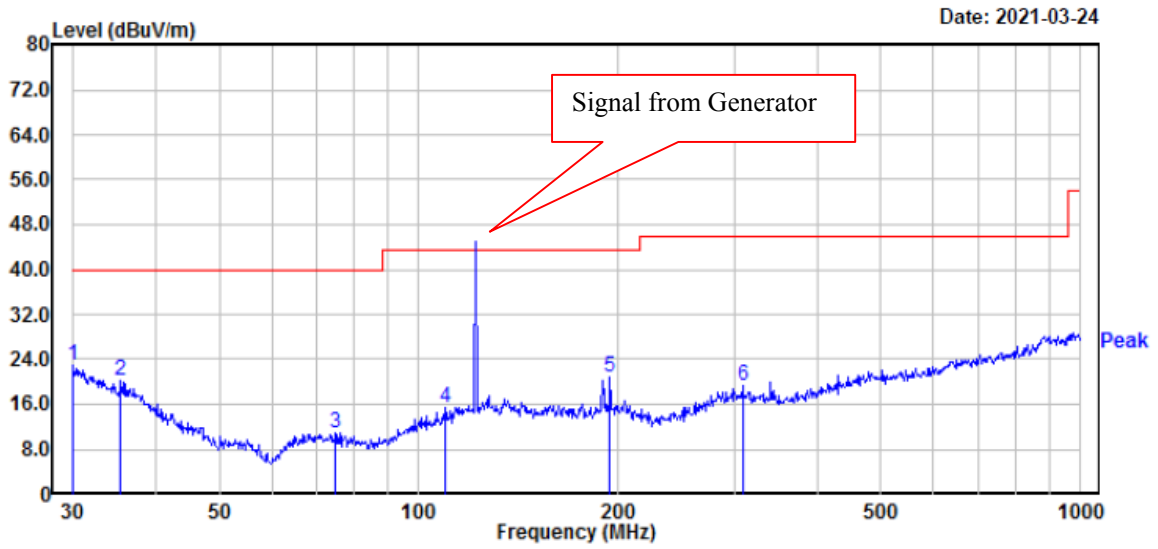
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	31.40	28.30	-5.22	23.08	40.00	-16.92	100	60	Peak
2	35.62	28.69	-8.19	20.50	40.00	-19.50	100	297	Peak
3	145.86	28.17	-11.74	16.43	43.50	-27.07	200	325	Peak
4	189.74	36.10	-11.61	24.49	43.50	-19.01	200	123	Peak
5	220.62	30.53	-13.08	17.45	46.00	-28.55	100	143	Peak
6	319.94	27.72	-8.96	18.76	46.00	-27.24	100	168	Peak

Vertical:

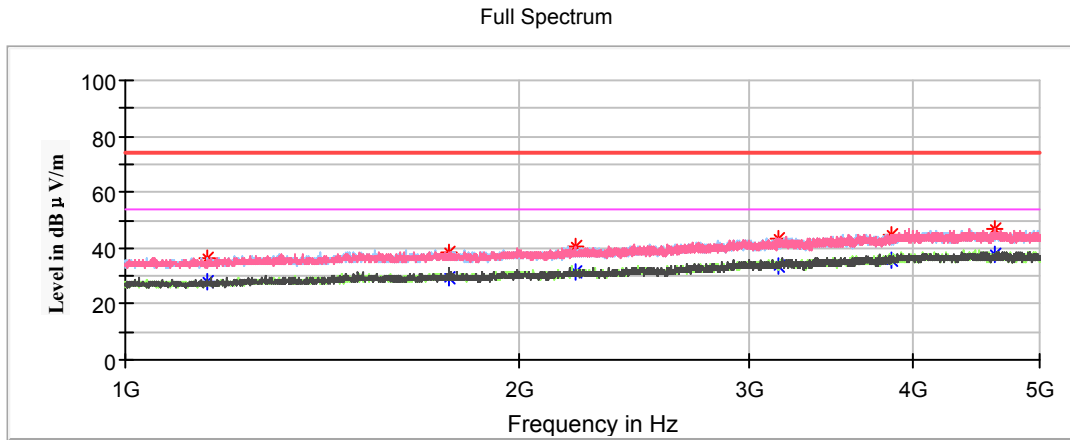


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.00	27.07	-4.24	22.83	40.00	-17.17	100	51	Peak
2	35.50	28.20	-8.11	20.09	40.00	-19.91	100	114	Peak
3	74.92	27.73	-16.79	10.94	40.00	-29.06	100	21	Peak
4	109.80	28.38	-13.07	15.31	43.50	-28.19	200	112	Peak
5	194.45	32.14	-11.33	20.81	43.50	-22.69	100	157	Peak
6	308.91	27.99	-8.75	19.24	46.00	-26.76	200	106	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1155.600000	---	27.82	54.00	26.18	200.0	H	76.0	-11.5
1155.600000	36.41	---	74.00	37.59	200.0	H	76.0	-11.5
1768.000000	---	29.64	54.00	24.36	200.0	V	100.0	-8.5
1768.000000	38.16	---	74.00	35.84	200.0	V	100.0	-8.5
2205.600000	---	31.27	54.00	22.73	200.0	H	43.0	-6.9
2205.600000	40.53	---	74.00	33.47	200.0	H	43.0	-6.9
3152.000000	---	33.51	54.00	20.49	100.0	H	332.0	-2.8
3152.000000	43.17	---	74.00	30.83	100.0	H	332.0	-2.8
3851.600000	---	35.65	54.00	18.35	200.0	H	296.0	-0.2
3851.600000	45.05	---	74.00	28.95	200.0	H	296.0	-0.2
4626.400000	---	37.79	54.00	16.21	200.0	V	2.0	1.0
4626.400000	47.07	---	74.00	26.93	200.0	V	2.0	1.0

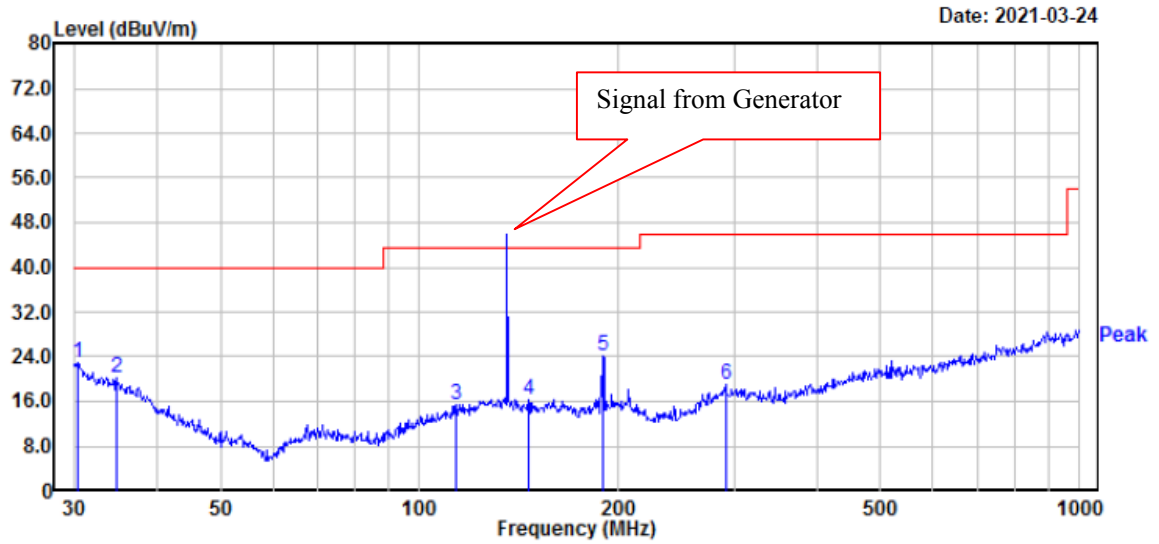
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 7:

1)30MHz ~ 1GHz

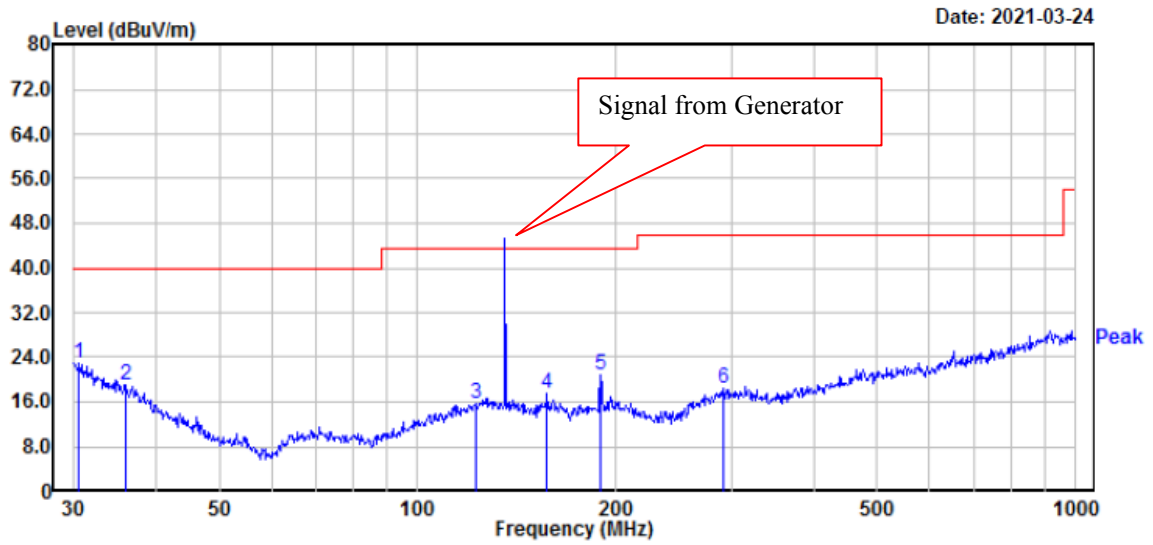
Horizontal:



Date: 2021-03-24

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.42	27.50	-4.54	22.96	40.00	-17.04	200	227	Peak
2	34.76	27.95	-7.57	20.38	40.00	-19.62	100	189	Peak
3	113.71	28.01	-12.48	15.53	43.50	-27.97	200	136	Peak
4	146.37	28.07	-11.77	16.30	43.50	-27.20	100	262	Peak
5	189.74	35.66	-11.61	24.05	43.50	-19.45	100	219	Peak
6	291.04	28.20	-9.08	19.12	46.00	-26.88	200	240	Peak

Vertical:

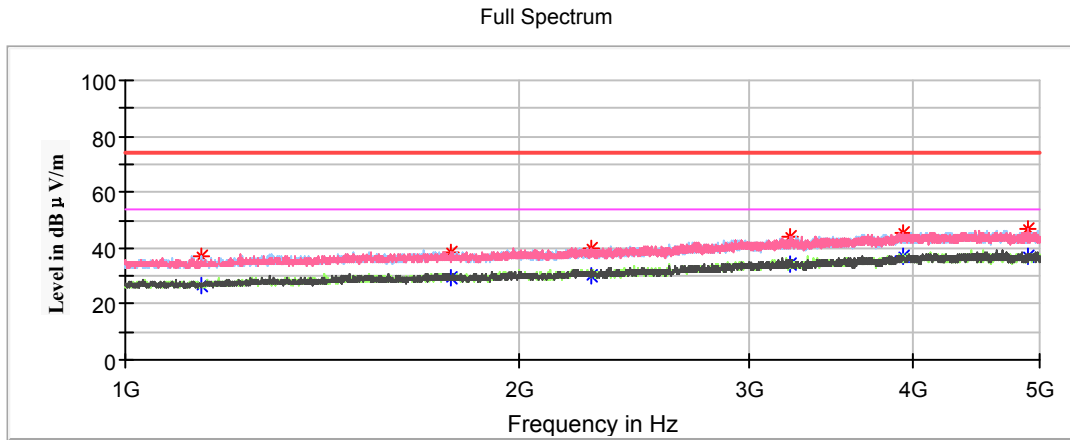


	Read Freq	Read Level	Factor	Limit Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.64	27.65	-4.68	22.97	40.00	-17.03	100	304	Peak
2	36.13	27.68	-8.56	19.12	40.00	-20.88	200	199	Peak
3	122.40	26.93	-11.17	15.76	43.50	-27.74	100	298	Peak
4	157.56	29.00	-11.62	17.38	43.50	-26.12	100	44	Peak
5	189.74	32.39	-11.61	20.78	43.50	-22.72	200	193	Peak
6	291.04	27.62	-9.08	18.54	46.00	-27.46	100	82	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1142.000000	37.28	---	74.00	36.72	200.0	H	19.0	-11.6
1142.000000	---	26.61	54.00	27.39	200.0	H	19.0	-11.6
1773.600000	38.70	---	74.00	35.30	100.0	V	307.0	-8.5
1773.600000	---	29.29	54.00	24.71	100.0	V	307.0	-8.5
2268.800000	40.10	---	74.00	33.90	200.0	V	42.0	-6.7
2268.800000	---	30.41	54.00	23.59	200.0	V	42.0	-6.7
3220.800000	---	33.93	54.00	20.07	200.0	V	305.0	-2.6
3220.800000	43.93	---	74.00	30.07	200.0	V	305.0	-2.6
3927.600000	---	36.80	54.00	17.20	200.0	V	33.0	0.1
3927.600000	45.54	---	74.00	28.46	200.0	V	33.0	0.1
4893.600000	---	37.39	54.00	16.61	200.0	H	292.0	1.1
4893.600000	46.52	---	74.00	27.48	200.0	H	292.0	1.1

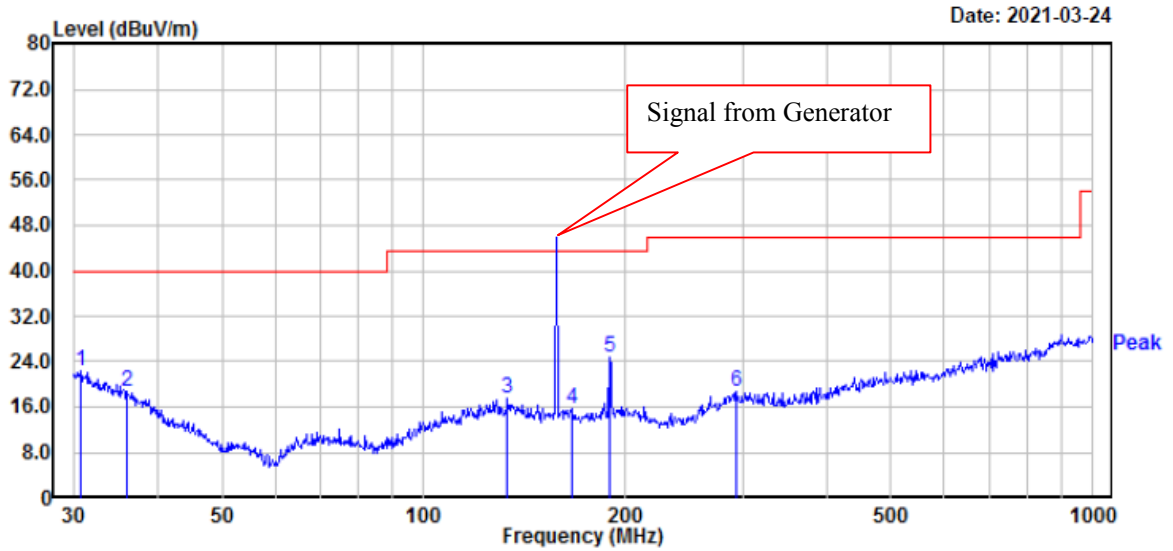
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 8:

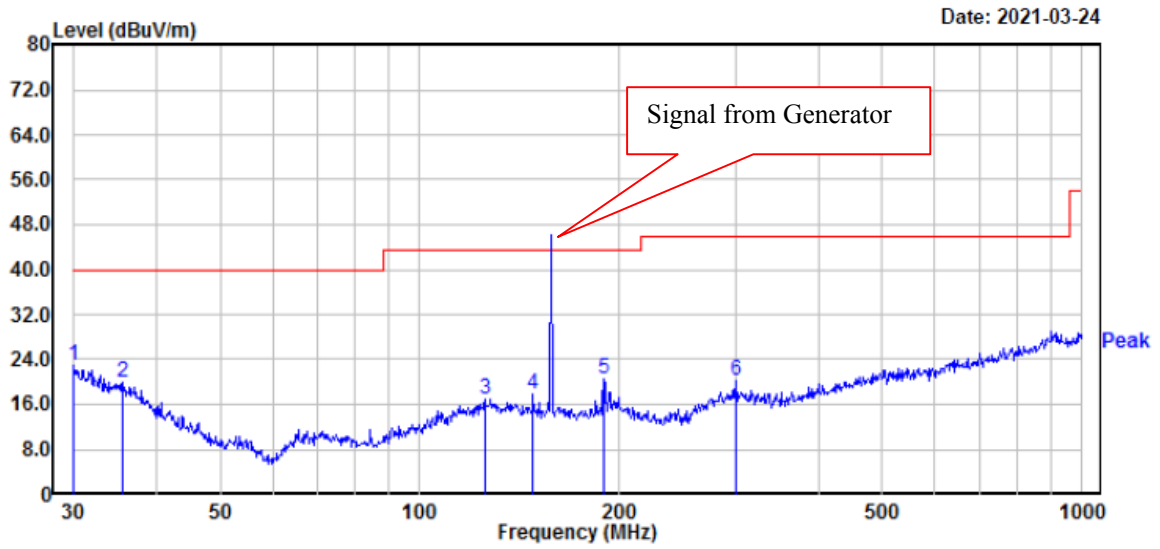
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.75	27.19	-4.76	22.43	40.00	-17.57	200	19	Peak
2	36.13	27.24	-8.56	18.68	40.00	-21.32	100	329	Peak
3	133.62	28.80	-11.19	17.61	43.50	-25.89	200	86	Peak
4	166.65	27.69	-11.94	15.75	43.50	-27.75	100	13	Peak
5	189.74	36.33	-11.61	24.72	43.50	-18.78	100	109	Peak
6	294.11	27.77	-8.91	18.86	46.00	-27.14	100	219	Peak

Vertical:

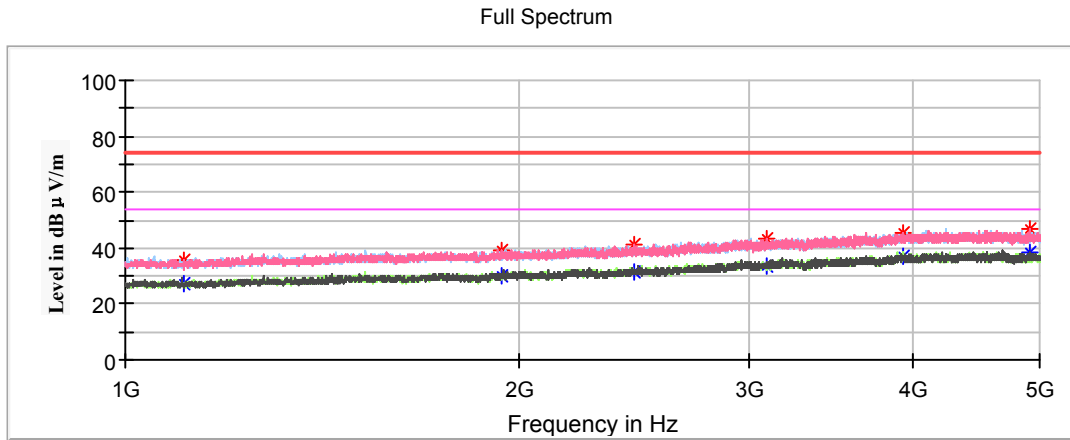


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	27.27	-4.32	22.95	40.00	-17.05	100	225	Peak
2	35.62	28.03	-8.19	19.84	40.00	-20.16	100	177	Peak
3	125.45	27.62	-10.80	16.82	43.50	-26.68	200	209	Peak
4	148.44	29.74	-11.87	17.87	43.50	-25.63	100	250	Peak
5	189.74	32.07	-11.61	20.46	43.50	-23.04	200	177	Peak
6	300.37	28.88	-8.59	20.29	46.00	-25.71	200	221	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1109.200000	---	27.52	54.00	26.48	100.0	V	328.0	-11.8
1109.200000	35.36	---	74.00	38.64	100.0	V	328.0	-11.8
1937.600000	---	30.15	54.00	23.85	100.0	V	281.0	-7.9
1937.600000	38.95	---	74.00	35.05	100.0	V	281.0	-7.9
2451.600000	---	31.59	54.00	22.41	100.0	V	323.0	-6.0
2451.600000	41.27	---	74.00	32.73	100.0	V	323.0	-6.0
3088.800000	---	33.40	54.00	20.60	200.0	H	272.0	-2.9
3088.800000	43.46	---	74.00	30.54	200.0	H	272.0	-2.9
3930.800000	---	36.91	54.00	17.09	100.0	V	351.0	0.1
3930.800000	45.33	---	74.00	28.67	100.0	V	351.0	0.1
4913.600000	---	38.16	54.00	15.84	100.0	V	62.0	1.1
4913.600000	46.77	---	74.00	27.23	100.0	V	62.0	1.1

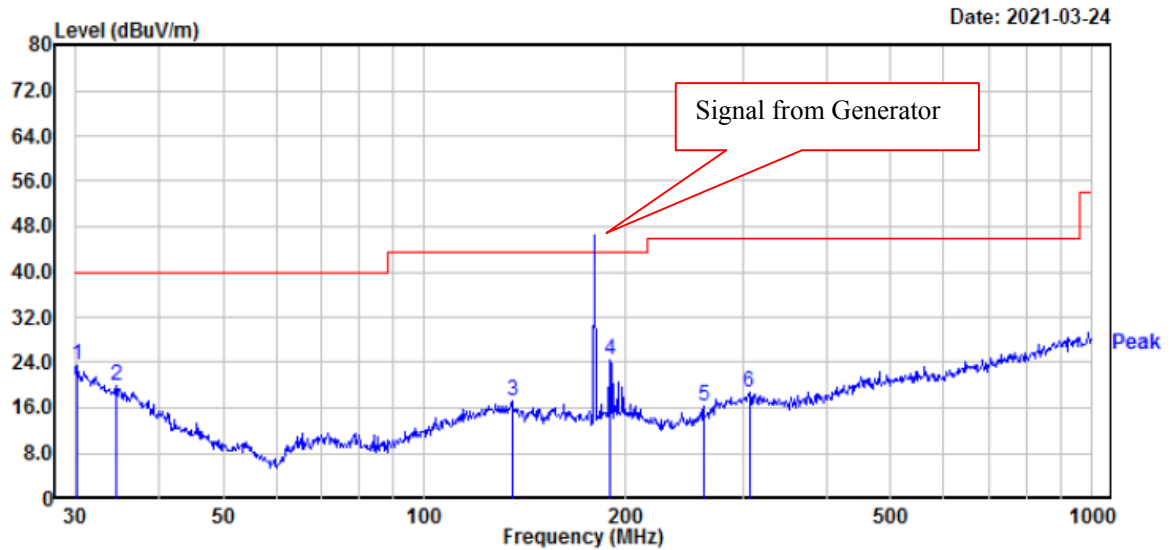
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 9:

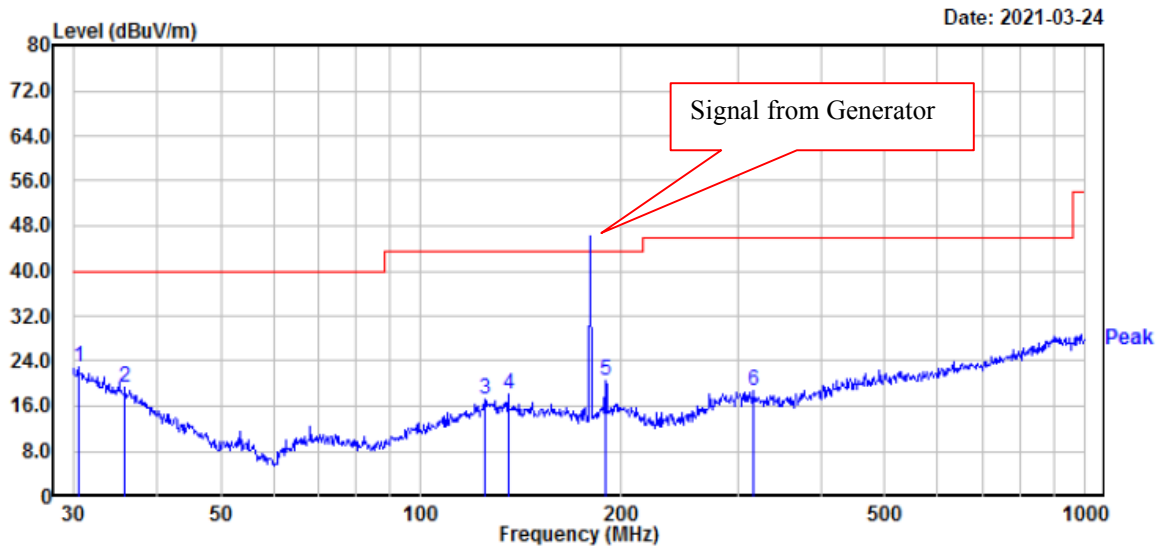
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.21	27.85	-4.39	23.46	40.00	-16.54	100	139	Peak
2	34.52	27.25	-7.40	19.85	40.00	-20.15	200	184	Peak
3	135.51	28.54	-11.28	17.26	43.50	-26.24	200	246	Peak
4	189.74	35.94	-11.61	24.33	43.50	-19.17	100	122	Peak
5	261.98	27.66	-11.47	16.19	46.00	-29.81	100	90	Peak
6	306.75	27.29	-8.71	18.58	46.00	-27.42	100	317	Peak

Vertical:

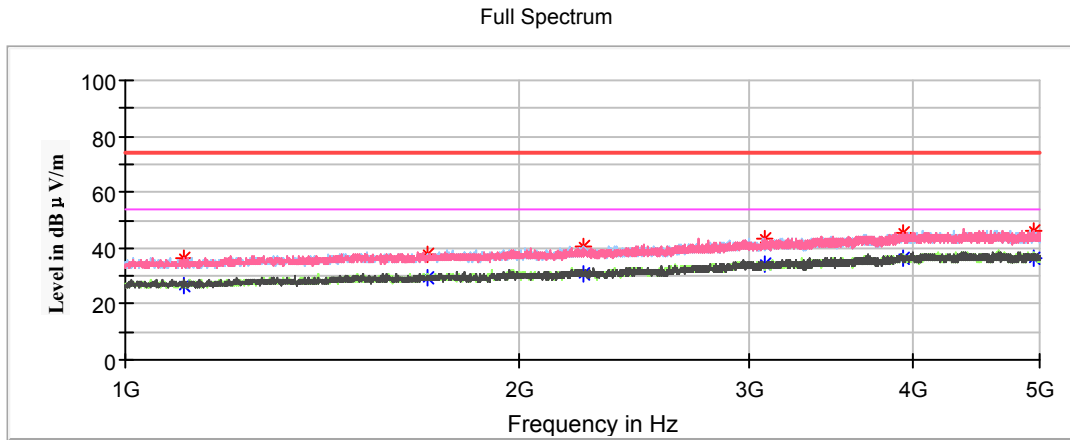


	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.53	27.48	-4.61	22.87	40.00	-17.13	100	151	Peak
2	35.87	27.67	-8.38	19.29	40.00	-20.71	100	13	Peak
3	124.57	28.12	-10.85	17.27	43.50	-26.23	200	4	Peak
4	135.51	29.25	-11.28	17.97	43.50	-25.53	200	30	Peak
5	189.74	32.10	-11.61	20.49	43.50	-23.01	200	178	Peak
6	317.70	27.67	-8.92	18.75	46.00	-27.25	100	249	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1109.200000	---	26.89	54.00	27.11	200.0	H	328.0	-11.8
1109.200000	36.23	---	74.00	37.77	200.0	H	328.0	-11.8
1702.800000	---	29.38	54.00	24.62	100.0	V	310.0	-8.7
1702.800000	37.75	---	74.00	36.25	100.0	V	310.0	-8.7
2236.800000	---	30.65	54.00	23.35	100.0	H	3.0	-6.8
2236.800000	40.75	---	74.00	33.25	100.0	H	3.0	-6.8
3081.200000	---	34.37	54.00	19.63	100.0	H	83.0	-3.0
3081.200000	43.18	---	74.00	30.82	100.0	H	83.0	-3.0
3935.600000	---	36.70	54.00	17.30	100.0	V	310.0	0.1
3935.600000	45.25	---	74.00	28.75	100.0	V	310.0	0.1
4949.200000	---	36.67	54.00	17.33	100.0	H	3.0	1.1
4949.200000	45.87	---	74.00	28.13	100.0	H	3.0	1.1

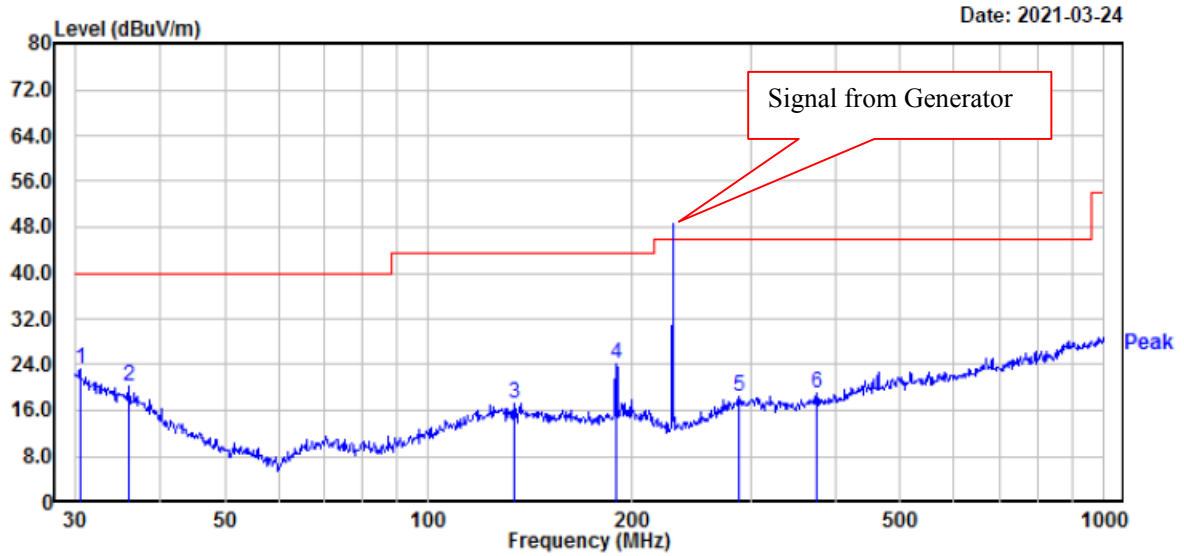
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 10:

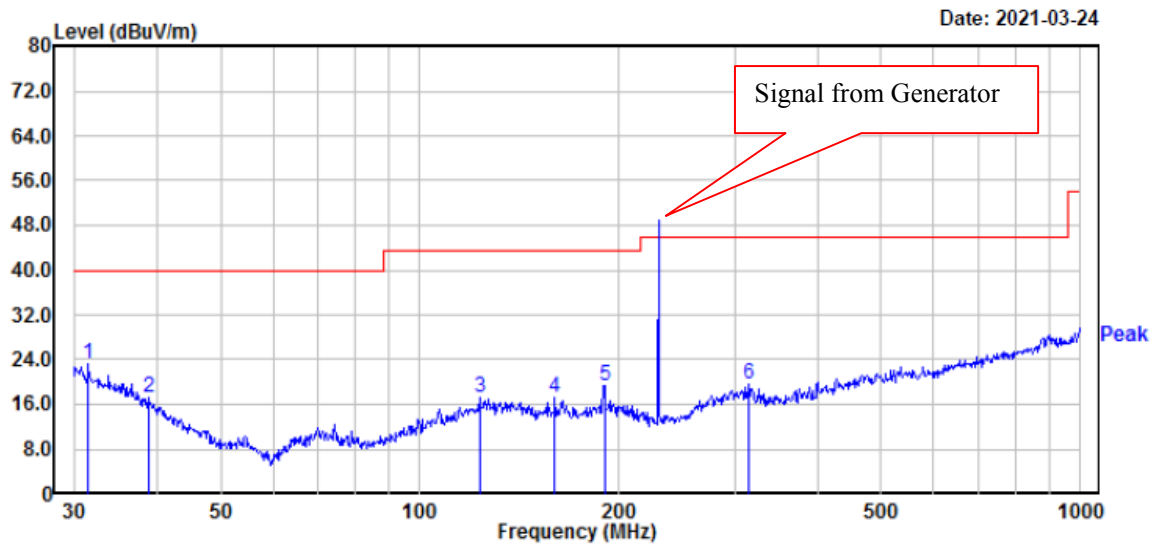
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.53	27.85	-4.61	23.24	40.00	-16.76	100	30	Peak
2	36.13	28.78	-8.56	20.22	40.00	-19.78	100	3	Peak
3	134.09	28.31	-11.21	17.10	43.50	-26.40	100	36	Peak
4	189.74	35.66	-11.61	24.05	43.50	-19.45	100	134	Peak
5	289.00	27.63	-9.20	18.43	46.00	-27.57	200	34	Peak
6	375.94	28.04	-8.90	19.14	46.00	-26.86	200	287	Peak

Vertical:

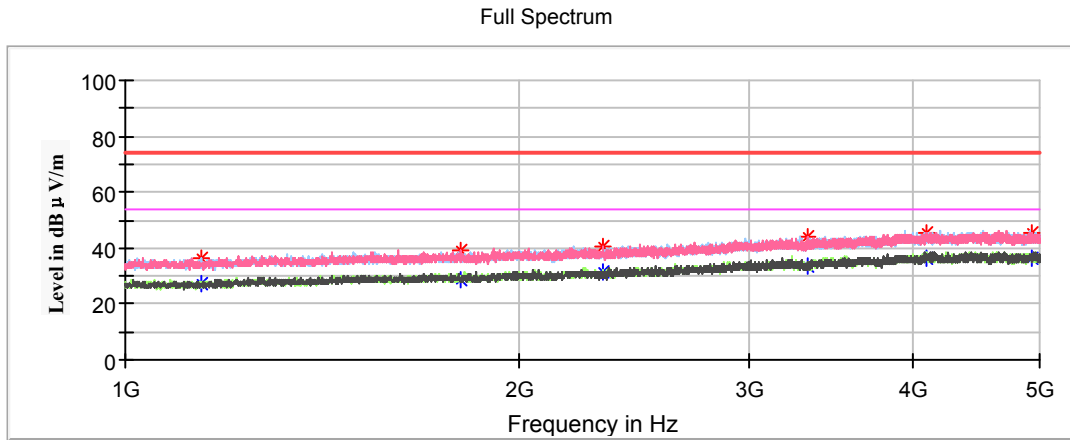


	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	31.51	28.44	-5.30	23.14	40.00	-16.86	100	244	Peak
2	38.89	27.69	-10.58	17.11	40.00	-22.89	200	36	Peak
3	123.27	28.11	-11.04	17.07	43.50	-26.43	200	25	Peak
4	160.35	28.63	-11.55	17.08	43.50	-26.42	200	74	Peak
5	190.41	31.02	-11.56	19.46	43.50	-24.04	200	172	Peak
6	315.48	28.36	-8.88	19.48	46.00	-26.52	200	12	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1143.200000	---	27.36	54.00	26.64	100.0	H	302.0	-11.6
1143.200000	36.50	---	74.00	37.50	100.0	H	302.0	-11.6
1802.400000	---	28.67	54.00	25.33	200.0	V	358.0	-8.4
1802.400000	38.98	---	74.00	35.02	200.0	V	358.0	-8.4
2320.800000	---	31.43	54.00	22.57	100.0	V	114.0	-6.5
2320.800000	40.21	---	74.00	33.79	100.0	V	114.0	-6.5
3322.000000	---	33.72	54.00	20.28	100.0	V	36.0	-2.3
3322.000000	44.03	---	74.00	29.97	100.0	V	36.0	-2.3
4099.600000	---	36.60	54.00	17.40	100.0	H	145.0	0.5
4099.600000	45.54	---	74.00	28.46	100.0	H	145.0	0.5
4932.400000	---	36.58	54.00	17.42	100.0	V	94.0	1.1
4932.400000	45.66	---	74.00	28.34	100.0	V	94.0	1.1

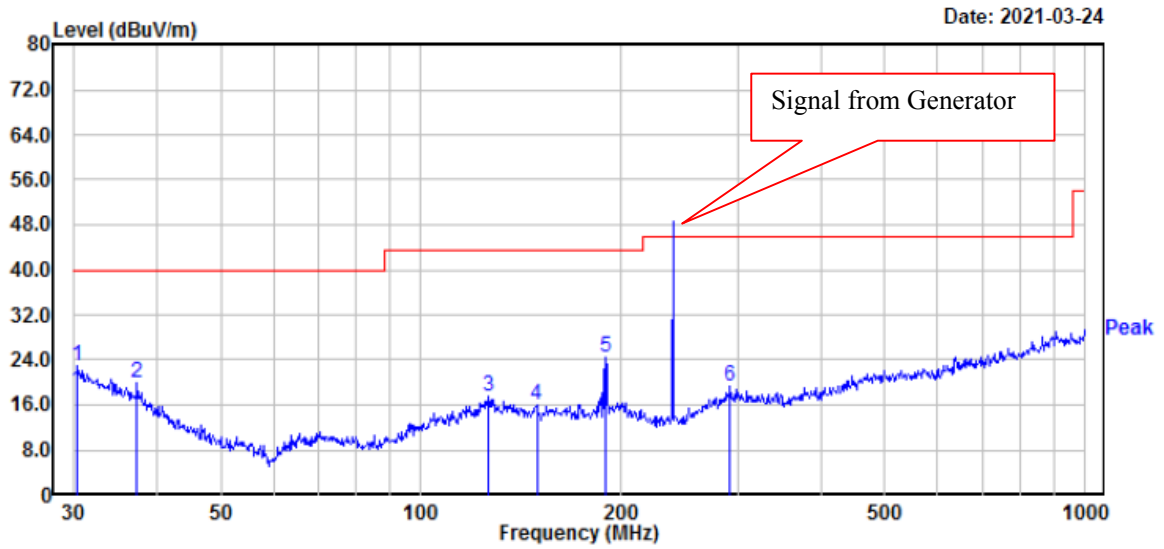
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode II:

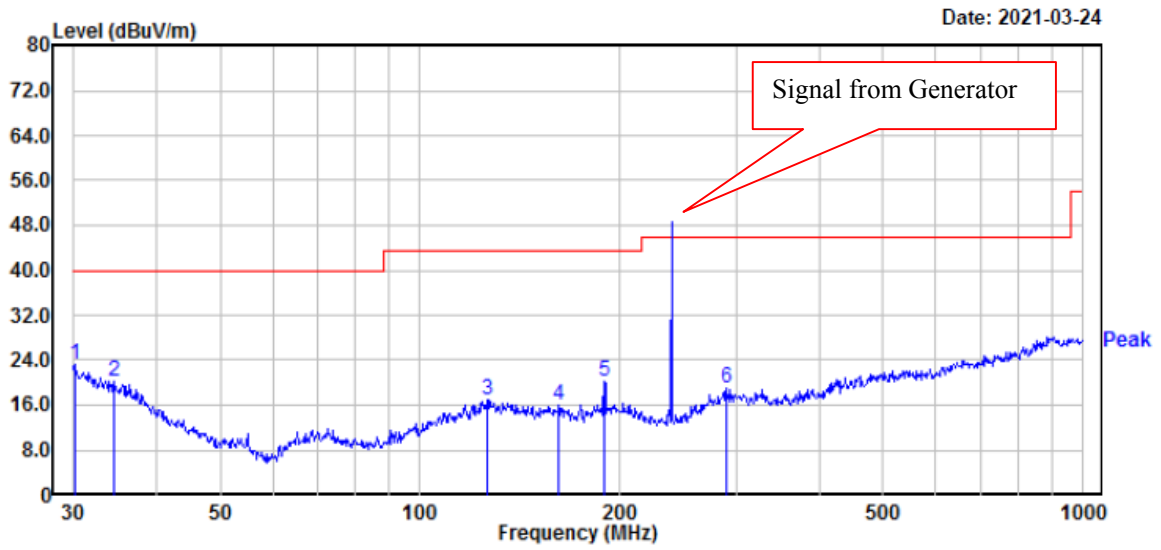
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.42	27.50	-4.54	22.96	40.00	-17.04	100	27	Peak
2	37.42	29.57	-9.51	20.06	40.00	-19.94	200	63	Peak
3	126.33	28.48	-10.85	17.63	43.50	-25.87	100	325	Peak
4	149.49	27.89	-11.91	15.98	43.50	-27.52	100	253	Peak
5	189.74	35.92	-11.61	24.31	43.50	-19.19	100	212	Peak
6	292.06	28.38	-9.02	19.36	46.00	-26.64	200	195	Peak

Vertical:

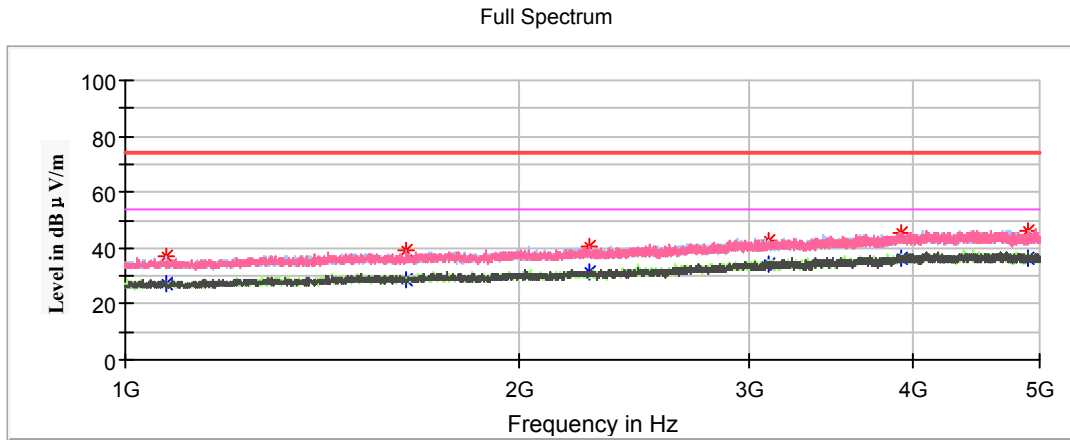


	Read		Limit	Over	Apos	Tpos		
Freq	Level	Factor	Level	Line	Limit		Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.21	27.59	-4.39	23.20	40.00	-16.80	100	199 Peak
2	34.64	27.61	-7.48	20.13	40.00	-19.87	200	148 Peak
3	126.33	27.78	-10.85	16.93	43.50	-26.57	100	242 Peak
4	162.04	27.64	-11.66	15.98	43.50	-27.52	100	70 Peak
5	189.74	31.76	-11.61	20.15	43.50	-23.35	100	155 Peak
6	290.02	28.13	-9.14	18.99	46.00	-27.01	100	285 Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1073.200000	---	27.23	54.00	26.77	200.0	H	44.0	-12.0
1073.200000	37.08	---	74.00	36.92	200.0	H	44.0	-12.0
1638.400000	---	28.84	54.00	25.16	200.0	V	45.0	-8.9
1638.400000	38.92	---	74.00	35.08	200.0	V	45.0	-8.9
2264.400000	---	31.39	54.00	22.61	100.0	V	270.0	-6.7
2264.400000	40.27	---	74.00	33.73	100.0	V	270.0	-6.7
3100.800000	---	34.53	54.00	19.47	100.0	V	44.0	-2.9
3100.800000	42.83	---	74.00	31.17	100.0	V	44.0	-2.9
3915.600000	---	36.67	54.00	17.33	200.0	H	152.0	0.0
3915.600000	45.52	---	74.00	28.48	200.0	H	152.0	0.0
4906.000000	---	36.40	54.00	17.60	200.0	H	113.0	1.1
4906.000000	46.14	---	74.00	27.86	200.0	H	113.0	1.1

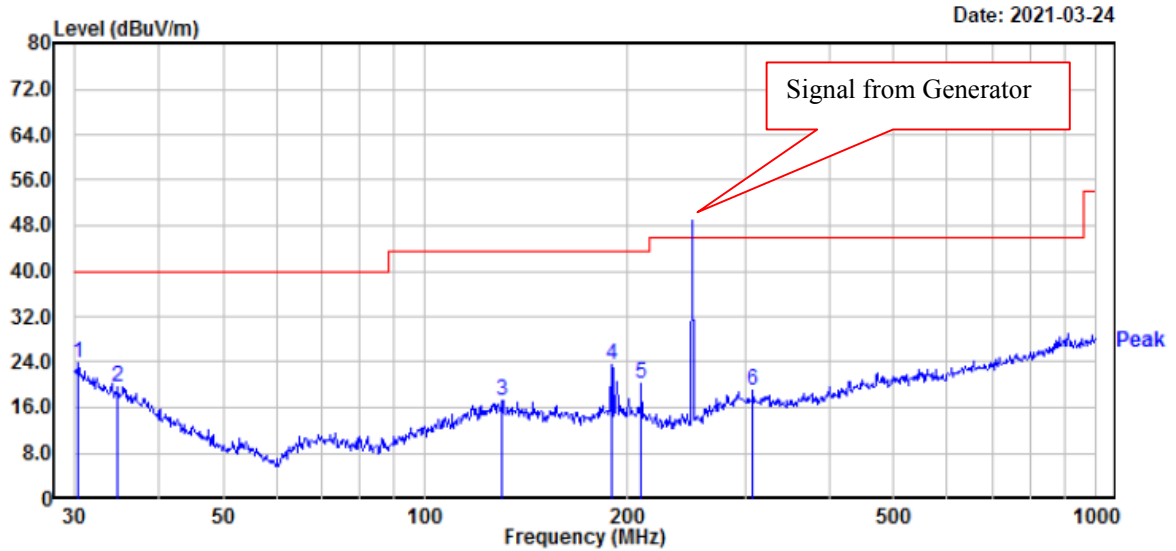
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 12:

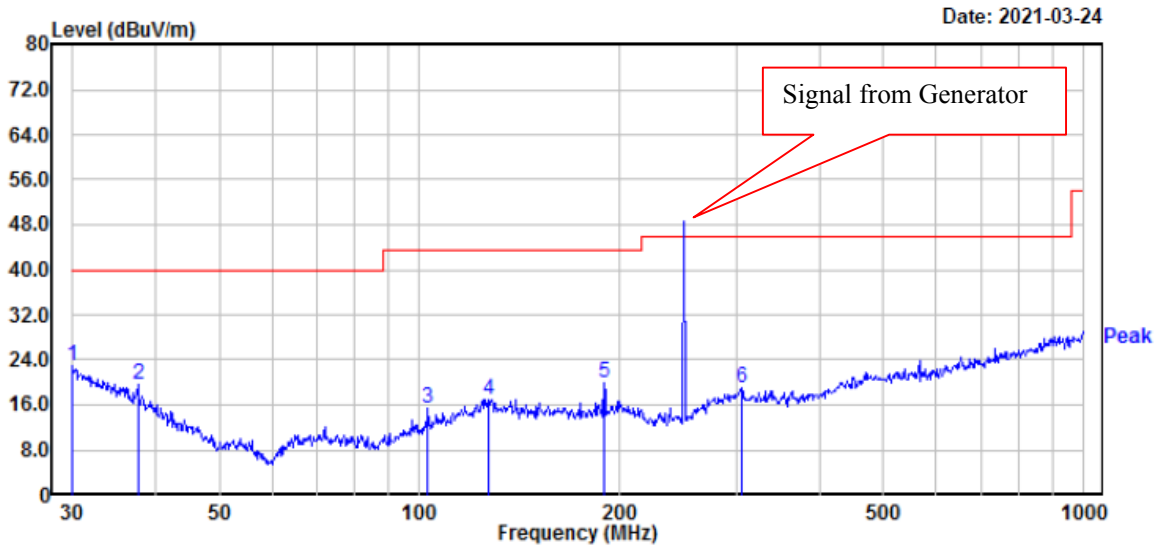
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.42	28.34	-4.54	23.80	40.00	-16.20	100	353	Peak
2	34.88	27.30	-7.66	19.64	40.00	-20.36	100	44	Peak
3	130.38	28.24	-11.04	17.20	43.50	-26.30	100	124	Peak
4	189.74	35.28	-11.61	23.67	43.50	-19.83	100	130	Peak
5	210.05	32.25	-12.03	20.22	43.50	-23.28	100	206	Peak
6	307.83	27.78	-8.73	19.05	46.00	-26.95	100	136	Peak

Vertical:

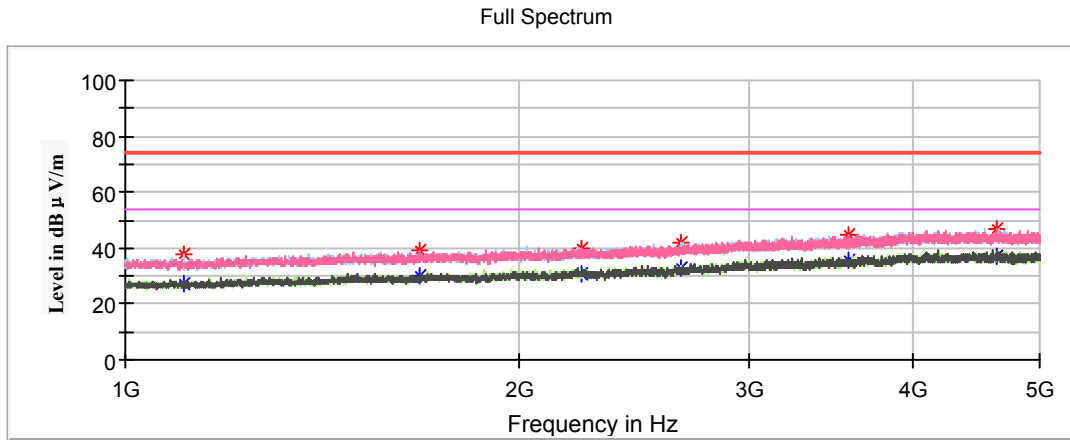


	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.00	27.16	-4.24	22.92	40.00	-17.08	100	39	Peak
2	37.68	29.30	-9.69	19.61	40.00	-20.39	100	9	Peak
3	103.08	29.34	-14.07	15.27	43.50	-28.23	100	77	Peak
4	127.22	27.81	-10.89	16.92	43.50	-26.58	100	56	Peak
5	189.74	31.47	-11.61	19.86	43.50	-23.64	200	188	Peak
6	305.68	27.66	-8.70	18.96	46.00	-27.04	100	194	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1108.800000	---	27.10	54.00	26.90	200.0	H	224.0	-11.8
1108.800000	37.58	---	74.00	36.42	200.0	H	224.0	-11.8
1676.400000	---	29.87	54.00	24.13	100.0	V	97.0	-8.8
1676.400000	38.87	---	74.00	35.13	100.0	V	97.0	-8.8
2230.800000	---	30.90	54.00	23.10	200.0	V	286.0	-6.8
2230.800000	39.95	---	74.00	34.05	200.0	V	286.0	-6.8
2662.400000	---	32.73	54.00	21.27	100.0	H	116.0	-5.0
2662.400000	42.12	---	74.00	31.88	100.0	H	116.0	-5.0
3573.200000	---	35.69	54.00	18.31	200.0	V	45.0	-1.5
3573.200000	44.56	---	74.00	29.44	200.0	V	45.0	-1.5
4631.200000	---	37.30	54.00	16.70	100.0	V	284.0	1.0
4631.200000	46.75	---	74.00	27.25	100.0	V	284.0	1.0

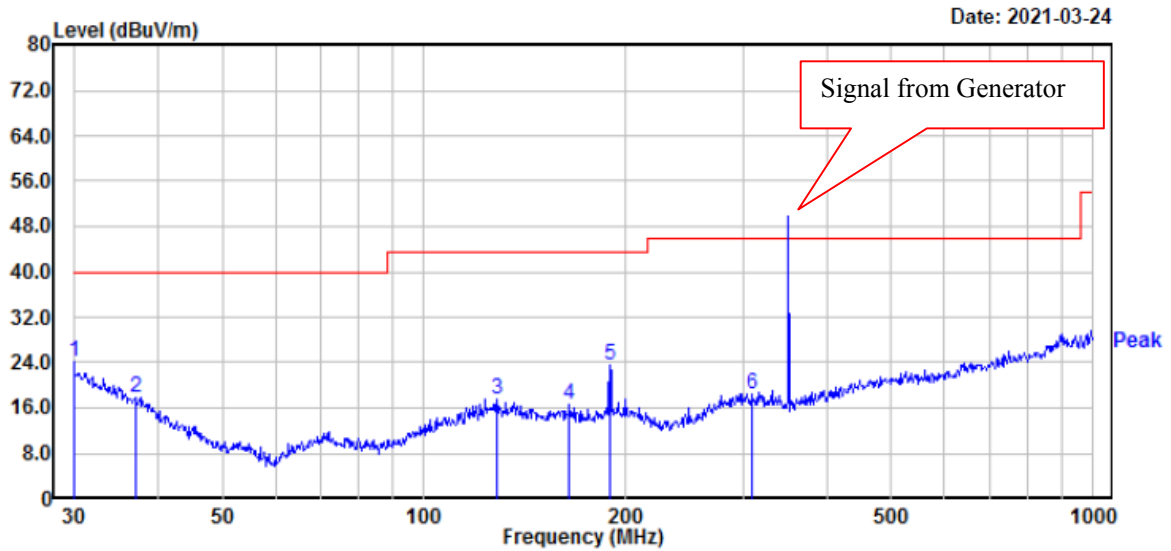
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 13:

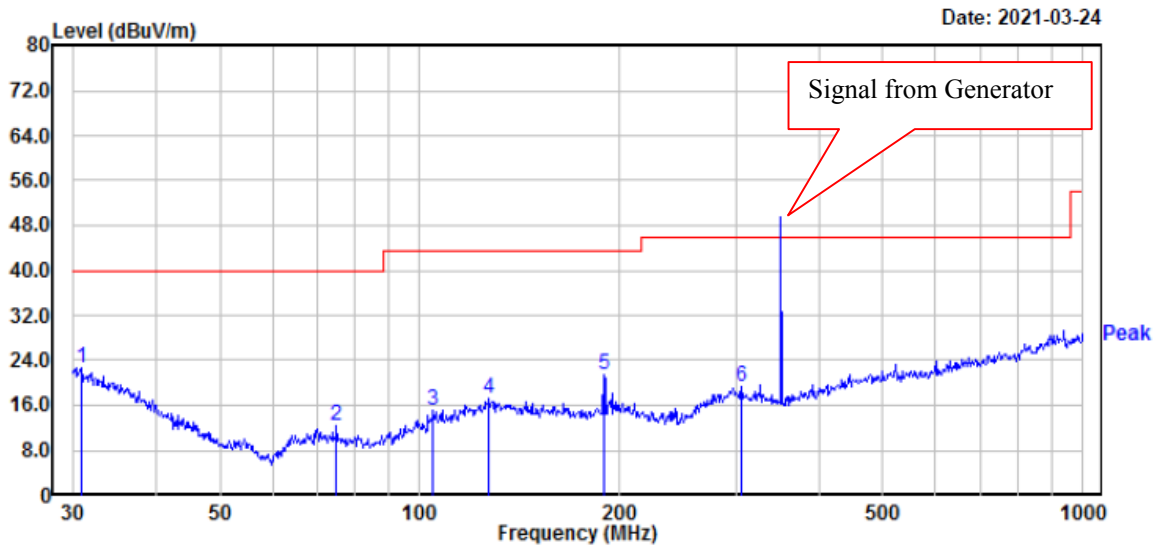
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.00	28.32	-4.24	24.08	40.00	-15.92	100	285	Peak
2	37.02	27.17	-9.22	17.95	40.00	-22.05	200	210	Peak
3	128.56	28.59	-10.96	17.63	43.50	-25.87	100	262	Peak
4	164.91	28.38	-11.83	16.55	43.50	-26.95	100	47	Peak
5	189.74	35.24	-11.61	23.63	43.50	-19.87	100	115	Peak
6	310.00	27.31	-8.77	18.54	46.00	-27.46	200	265	Peak

Vertical:

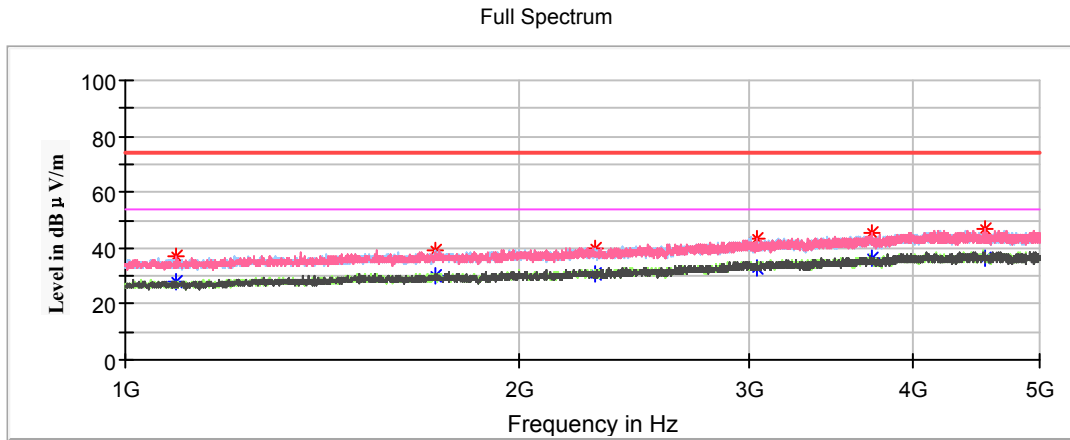


	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.85	27.53	-4.83	22.70	40.00	-17.30	100	243	Peak
2	74.92	29.25	-16.79	12.46	40.00	-27.54	200	84	Peak
3	104.90	28.76	-13.79	14.97	43.50	-28.53	100	34	Peak
4	127.22	28.19	-10.89	17.30	43.50	-26.20	100	36	Peak
5	189.74	32.90	-11.61	21.29	43.50	-22.21	200	180	Peak
6	305.68	28.10	-8.70	19.40	46.00	-26.60	100	207	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1095.200000	36.95	---	74.00	37.05	200.0	V	7.0	-11.9
1095.200000	---	27.69	54.00	26.31	200.0	V	7.0	-11.9
1722.800000	39.23	---	74.00	34.77	200.0	H	0.0	-8.6
1722.800000	---	30.41	54.00	23.59	200.0	H	0.0	-8.6
2282.800000	40.20	---	74.00	33.80	200.0	H	4.0	-6.6
2282.800000	---	30.91	54.00	23.09	200.0	H	4.0	-6.6
3036.400000	43.46	---	74.00	30.54	200.0	V	306.0	-3.1
3036.400000	---	33.18	54.00	20.82	200.0	V	306.0	-3.1
3728.000000	45.57	---	74.00	28.43	100.0	V	48.0	-0.8
3728.000000	---	36.71	54.00	17.29	100.0	V	48.0	-0.8
4537.200000	---	36.30	54.00	17.70	200.0	H	108.0	0.9
4537.200000	47.18	---	74.00	26.82	200.0	H	108.0	0.9

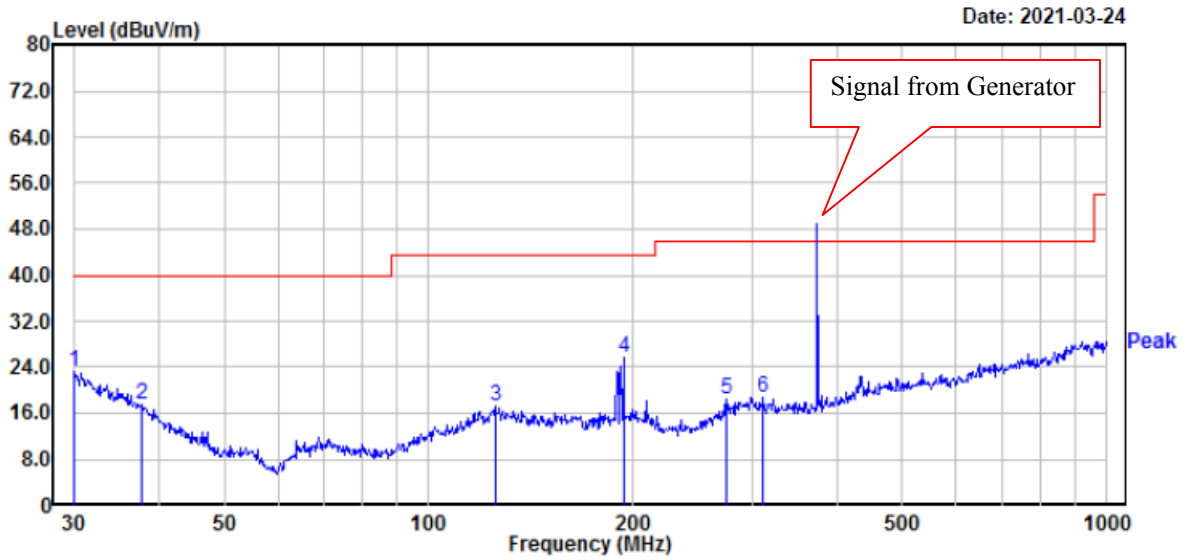
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 14:

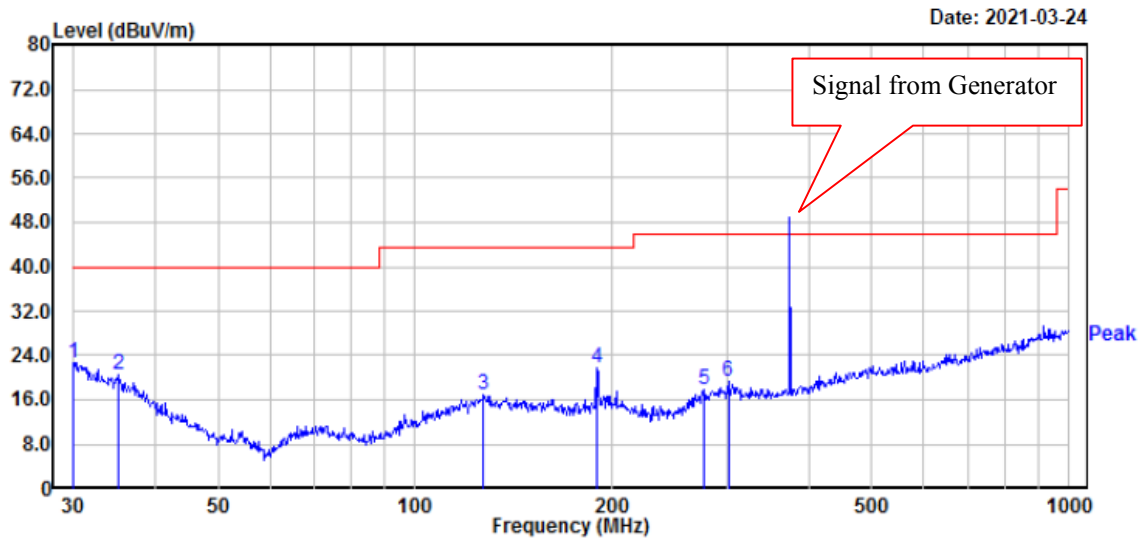
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	27.46	-4.32	23.14	40.00	-16.86	100	11	Peak
2	37.68	27.24	-9.69	17.55	40.00	-22.45	100	164	Peak
3	125.45	27.97	-10.80	17.17	43.50	-26.33	100	226	Peak
4	193.77	36.93	-11.37	25.56	43.50	-17.94	100	207	Peak
5	275.16	28.51	-9.95	18.56	46.00	-27.44	200	173	Peak
6	312.18	27.51	-8.81	18.70	46.00	-27.30	200	253	Peak

Vertical:

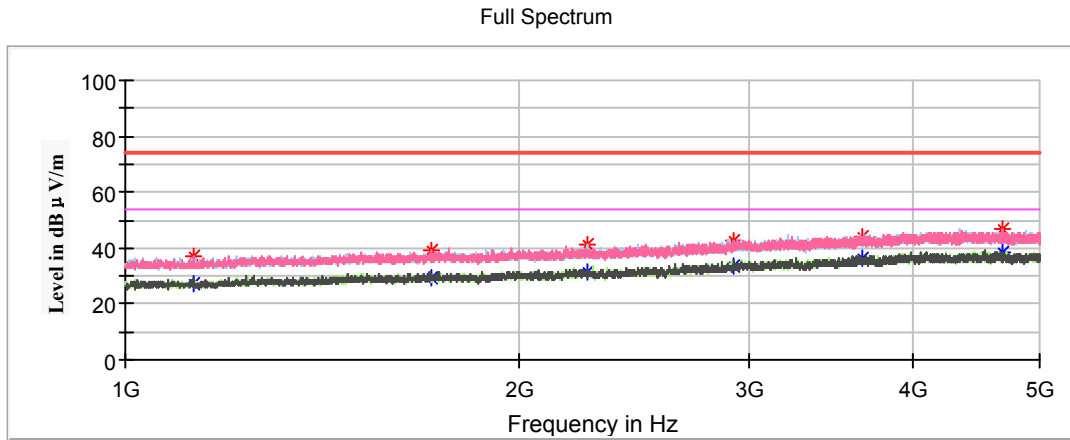


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	27.11	-4.32	22.79	40.00	-17.21	100	101	Peak
2	35.25	28.32	-7.93	20.39	40.00	-19.61	100	193	Peak
3	127.22	27.72	-10.89	16.83	43.50	-26.67	100	311	Peak
4	189.74	33.33	-11.61	21.72	43.50	-21.78	200	177	Peak
5	277.09	27.61	-9.85	17.76	46.00	-28.24	100	77	Peak
6	301.42	27.82	-8.61	19.21	46.00	-26.79	100	29	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1128.400000	---	27.17	54.00	26.83	200.0	H	7.0	-11.7
1128.400000	36.80	---	74.00	37.20	200.0	H	7.0	-11.7
1715.600000	---	29.22	54.00	24.78	100.0	V	84.0	-8.7
1715.600000	39.28	---	74.00	34.72	100.0	V	84.0	-8.7
2252.400000	---	31.54	54.00	22.46	100.0	H	136.0	-6.7
2252.400000	41.23	---	74.00	32.77	100.0	H	136.0	-6.7
2916.000000	---	33.29	54.00	20.71	100.0	H	341.0	-3.6
2916.000000	42.56	---	74.00	31.44	100.0	H	341.0	-3.6
3658.400000	---	36.04	54.00	17.96	100.0	H	292.0	-1.1
3658.400000	44.35	---	74.00	29.65	100.0	H	292.0	-1.1
4689.200000	---	38.40	54.00	15.60	100.0	V	93.0	1.0
4689.200000	46.68	---	74.00	27.32	100.0	V	93.0	1.0

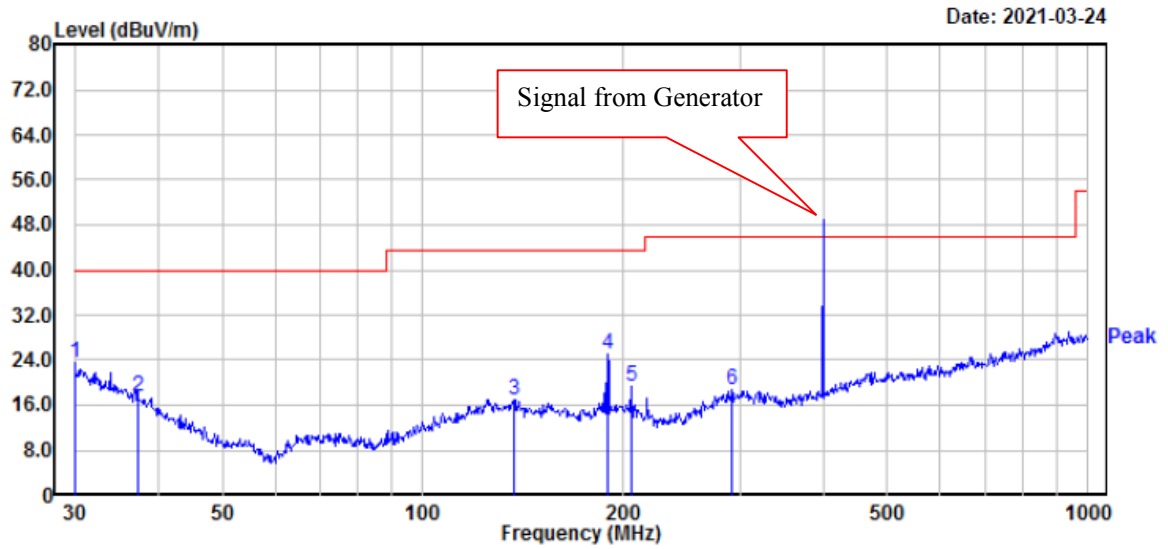
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 15:

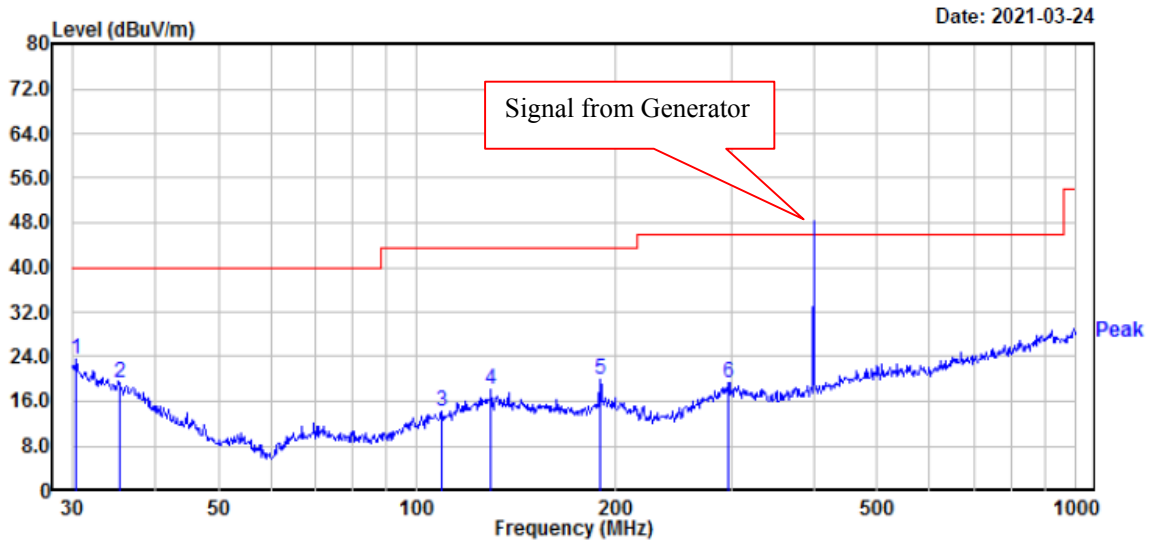
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Read Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.00	27.69	-4.24	23.45	40.00	-16.55	200	265	Peak
2	37.42	27.09	-9.51	17.58	40.00	-22.42	200	271	Peak
3	136.94	28.36	-11.34	17.02	43.50	-26.48	200	259	Peak
4	189.74	36.61	-11.61	25.00	43.50	-18.50	100	206	Peak
5	205.68	31.01	-11.58	19.43	43.50	-24.07	200	62	Peak
6	292.06	27.75	-9.02	18.73	46.00	-27.27	200	56	Peak

Vertical:

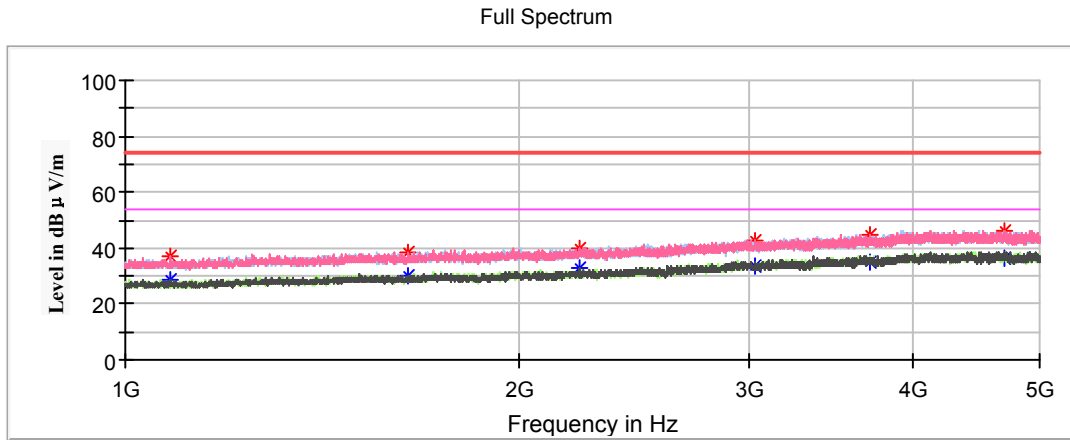


	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.42	28.11	-4.54	23.57	40.00	-16.43	100	247	Peak
2	35.38	27.45	-8.02	19.43	40.00	-20.57	100	77	Peak
3	109.03	27.33	-13.18	14.15	43.50	-29.35	200	37	Peak
4	129.47	28.99	-10.99	18.00	43.50	-25.50	200	246	Peak
5	189.74	31.60	-11.61	19.99	43.50	-23.51	200	178	Peak
6	296.18	28.21	-8.80	19.41	46.00	-26.59	200	23	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1083.200000	---	28.57	54.00	25.43	200.0	V	214.0	-12.0
1083.200000	37.01	---	74.00	36.99	200.0	V	214.0	-12.0
1647.200000	---	29.75	54.00	24.25	200.0	V	331.0	-8.9
1647.200000	38.65	---	74.00	35.35	200.0	V	331.0	-8.9
2226.400000	---	32.59	54.00	21.41	200.0	V	243.0	-6.8
2226.400000	40.06	---	74.00	33.94	200.0	V	243.0	-6.8
3028.000000	---	33.55	54.00	20.45	200.0	V	350.0	-3.1
3028.000000	42.47	---	74.00	31.53	200.0	V	350.0	-3.1
3705.200000	---	34.95	54.00	19.05	200.0	V	146.0	-0.9
3705.200000	44.52	---	74.00	29.48	200.0	V	146.0	-0.9
4708.400000	---	36.32	54.00	17.68	100.0	V	84.0	1.0
4708.400000	45.85	---	74.00	28.15	100.0	V	84.0	1.0

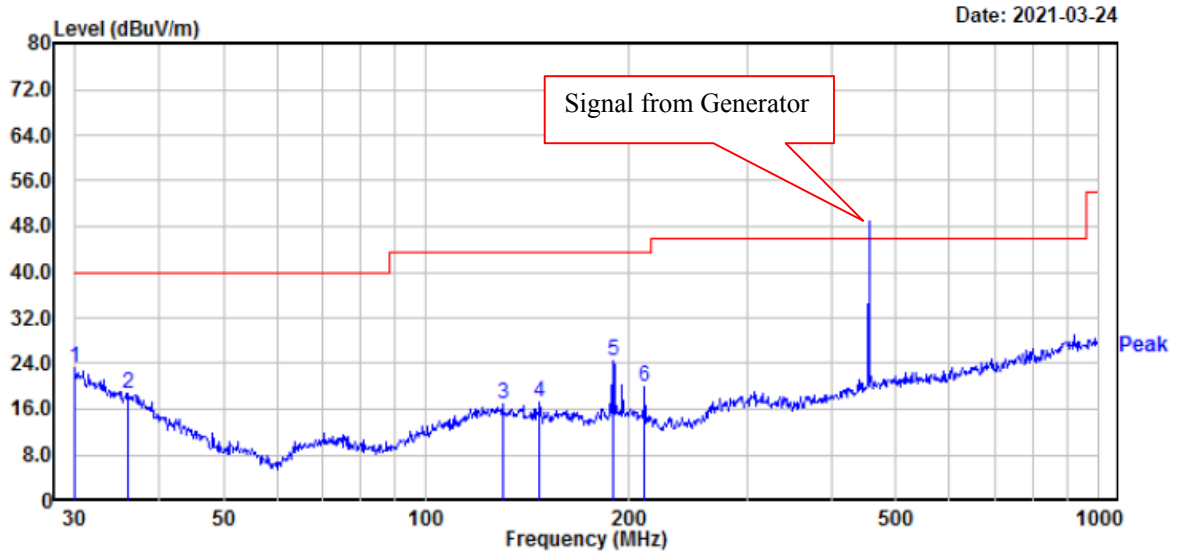
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 16:

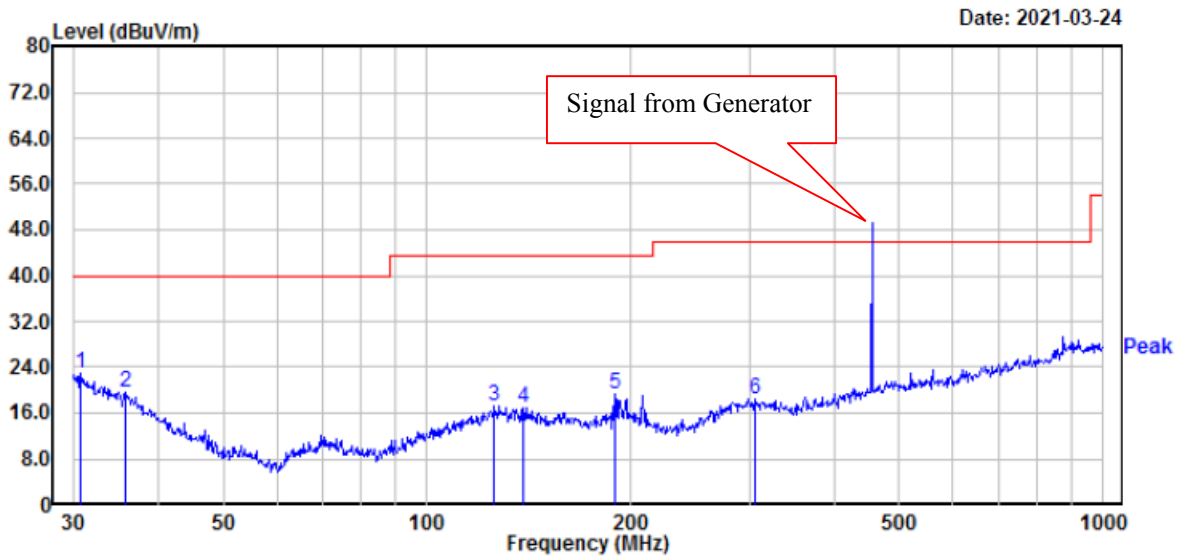
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	27.66	-4.32	23.34	40.00	-16.66	100	280	Peak
2	36.13	27.32	-8.56	18.76	40.00	-21.24	100	218	Peak
3	129.92	27.84	-11.02	16.82	43.50	-26.68	200	38	Peak
4	147.40	28.99	-11.81	17.18	43.50	-26.32	100	255	Peak
5	189.74	36.12	-11.61	24.51	43.50	-18.99	100	218	Peak
6	211.53	32.22	-12.17	20.05	43.50	-23.45	100	206	Peak

Vertical:

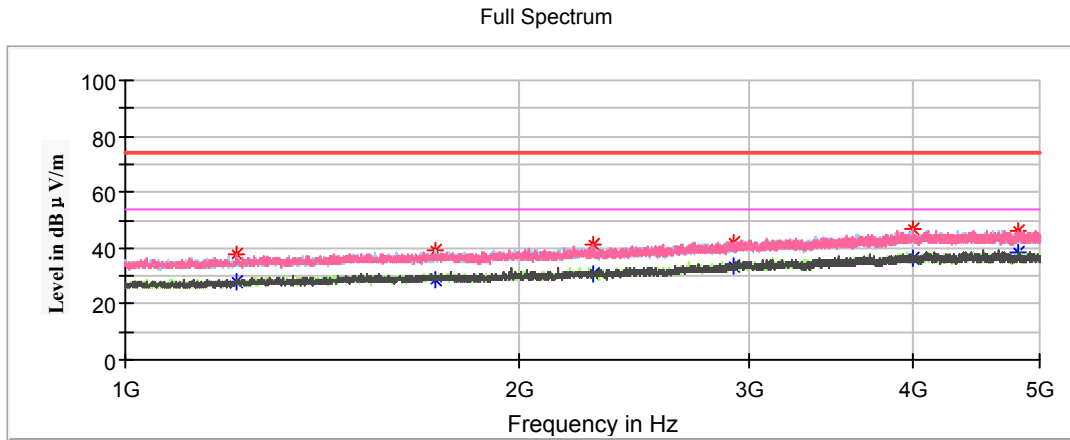


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.75	27.57	-4.76	22.81	40.00	-17.19	100	24	Peak
2	35.75	27.82	-8.28	19.54	40.00	-20.46	200	269	Peak
3	125.89	28.15	-10.83	17.32	43.50	-26.18	200	1	Peak
4	138.87	28.37	-11.42	16.95	43.50	-26.55	100	55	Peak
5	189.74	30.90	-11.61	19.29	43.50	-24.21	100	341	Peak
6	305.68	27.02	-8.70	18.32	46.00	-27.68	200	221	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1214.800000	37.62	---	74.00	36.38	200.0	V	267.0	-11.2
1214.800000	---	27.79	54.00	26.21	200.0	V	267.0	-11.2
1724.800000	38.84	---	74.00	35.16	200.0	H	185.0	-8.6
1724.800000	---	29.01	54.00	24.99	200.0	H	185.0	-8.6
2275.200000	40.99	---	74.00	33.01	100.0	V	185.0	-6.6
2275.200000	---	30.90	54.00	23.10	100.0	V	185.0	-6.6
2919.200000	42.25	---	74.00	31.75	200.0	V	335.0	-3.6
2919.200000	---	33.87	54.00	20.13	200.0	V	335.0	-3.6
4004.800000	---	36.30	54.00	17.70	200.0	V	257.0	0.4
4004.800000	46.62	---	74.00	27.38	200.0	V	257.0	0.4
4817.600000	---	38.21	54.00	15.79	200.0	V	130.0	1.0
4817.600000	46.23	---	74.00	27.77	200.0	V	130.0	1.0

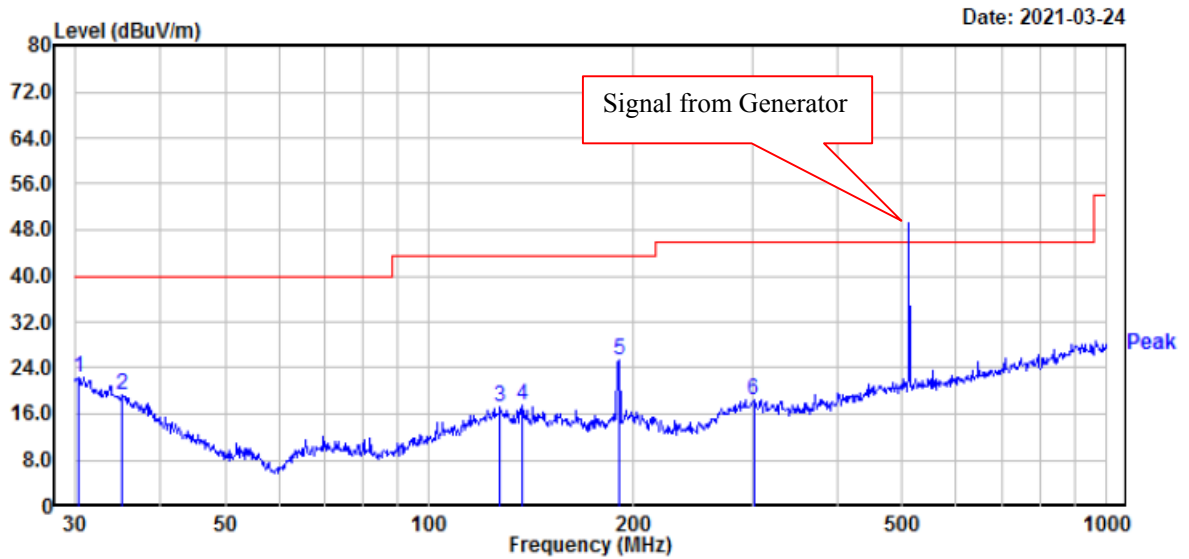
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 17:

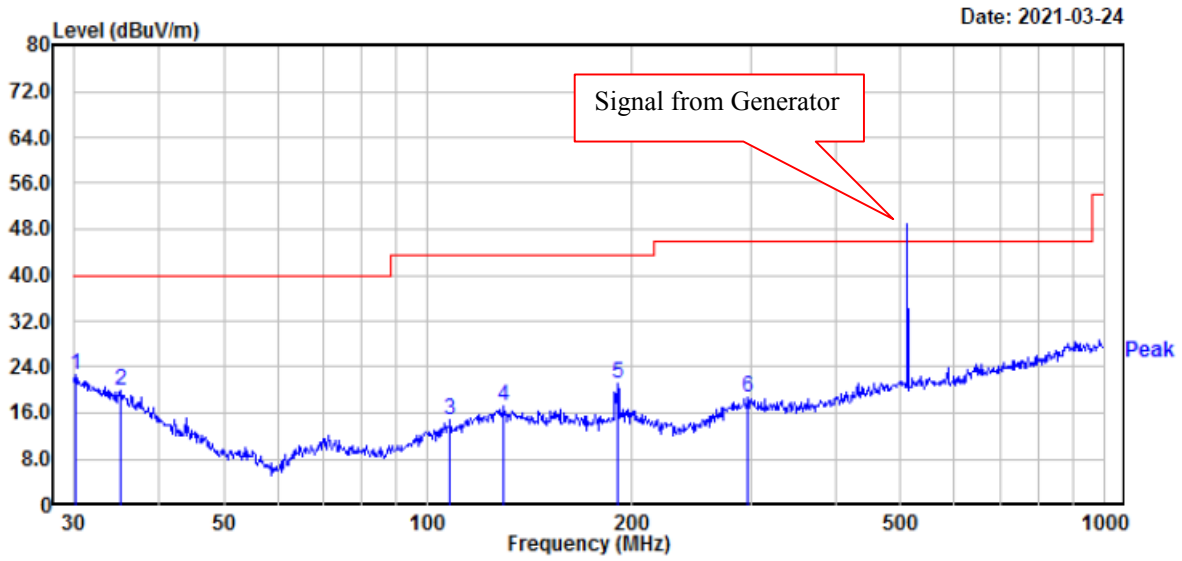
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.32	26.88	-4.47	22.41	40.00	-17.59	200	258	Peak
2	35.25	27.34	-7.93	19.41	40.00	-20.59	200	56	Peak
3	127.22	28.18	-10.89	17.29	43.50	-26.21	200	247	Peak
4	137.42	29.00	-11.37	17.63	43.50	-25.87	200	99	Peak
5	191.07	36.92	-11.53	25.39	43.50	-18.11	100	217	Peak
6	301.42	27.01	-8.61	18.40	46.00	-27.60	100	235	Peak

Vertical:

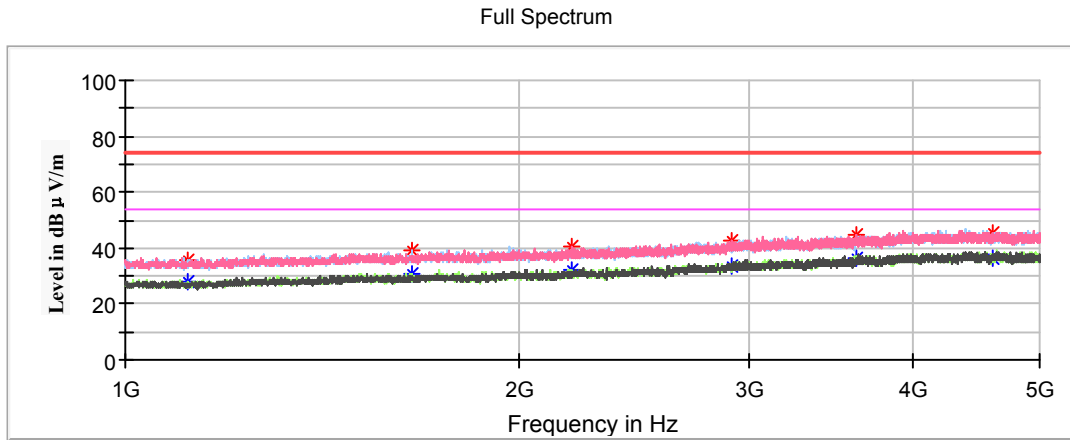


	Read			Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	30.21	27.07	-4.39	22.68	40.00	-17.32	100	302 Peak
2	35.13	27.73	-7.83	19.90	40.00	-20.10	200	69 Peak
3	107.89	28.12	-13.35	14.77	43.50	-28.73	100	254 Peak
4	129.47	28.20	-10.99	17.21	43.50	-26.29	100	23 Peak
5	190.41	32.59	-11.56	21.03	43.50	-22.47	200	187 Peak
6	297.22	27.43	-8.74	18.69	46.00	-27.31	200	244 Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1115.200000	---	27.99	54.00	26.01	100.0	H	282.0	-11.8
1115.200000	35.86	---	74.00	38.14	100.0	H	282.0	-11.8
1656.400000	---	30.50	54.00	23.50	100.0	H	0.0	-8.9
1656.400000	39.46	---	74.00	34.54	100.0	H	0.0	-8.9
2198.000000	---	32.28	54.00	21.72	100.0	H	272.0	-6.9
2198.000000	40.31	---	74.00	33.69	100.0	H	272.0	-6.9
2903.600000	---	33.30	54.00	20.70	200.0	V	243.0	-3.7
2903.600000	42.36	---	74.00	31.64	200.0	V	243.0	-3.7
3624.400000	---	36.12	54.00	17.88	100.0	V	220.0	-1.2
3624.400000	44.72	---	74.00	29.28	100.0	V	220.0	-1.2
4598.400000	---	36.08	54.00	17.92	200.0	H	2.0	1.0
4598.400000	45.67	---	74.00	28.33	200.0	H	2.0	1.0

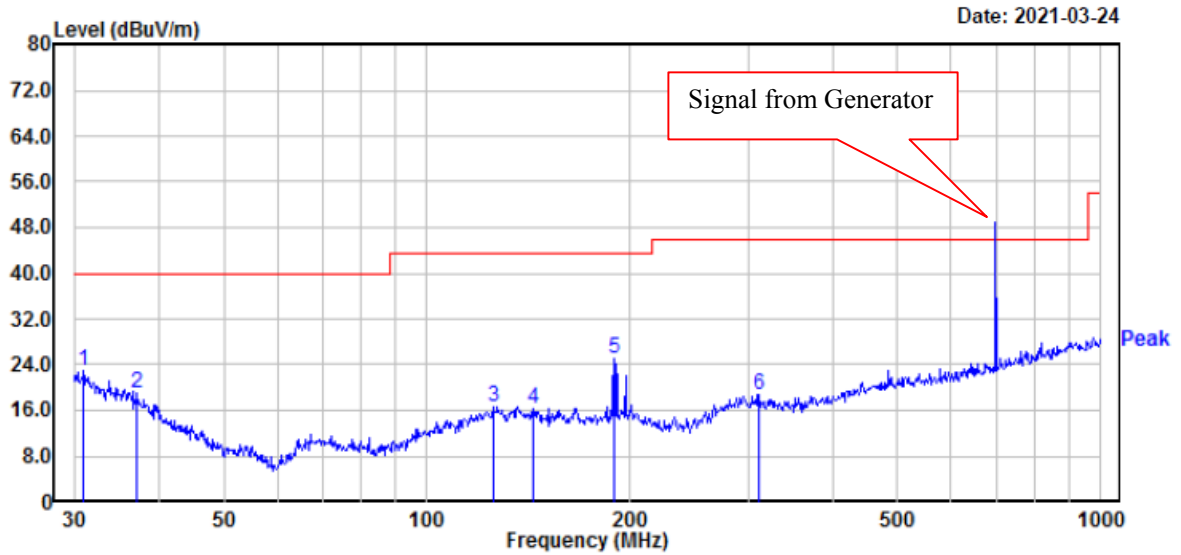
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 18:

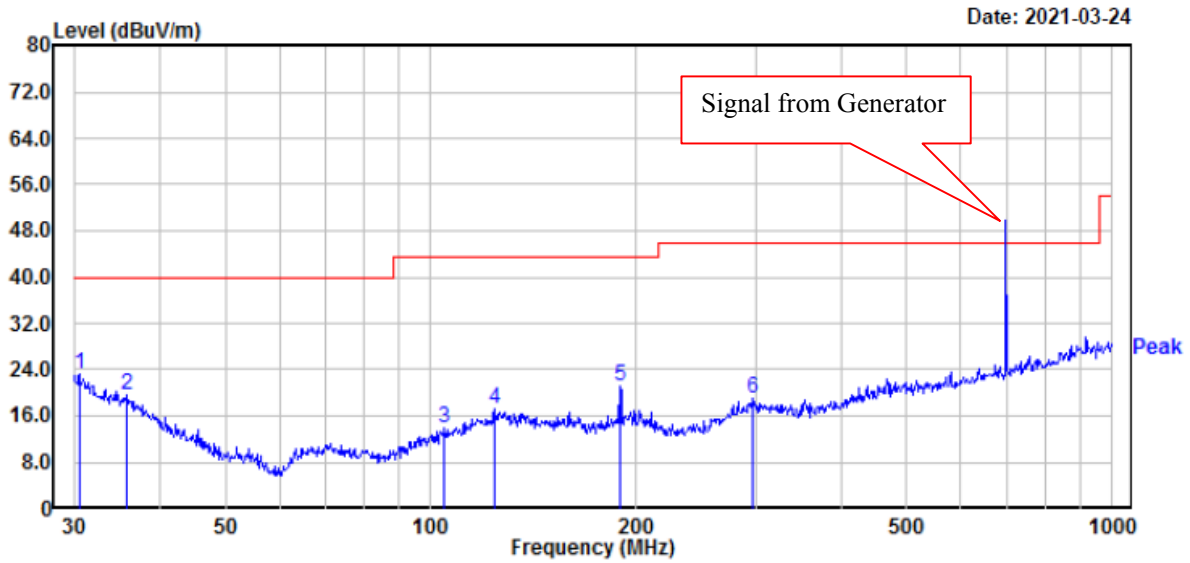
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.96	27.79	-4.91	22.88	40.00	-17.12	200	151	Peak
2	37.15	28.37	-9.31	19.06	40.00	-20.94	200	275	Peak
3	125.45	27.52	-10.80	16.72	43.50	-26.78	100	251	Peak
4	143.83	28.09	-11.65	16.44	43.50	-27.06	200	61	Peak
5	189.74	36.65	-11.61	25.04	43.50	-18.46	200	228	Peak
6	312.18	27.54	-8.81	18.73	46.00	-27.27	100	188	Peak

Vertical:

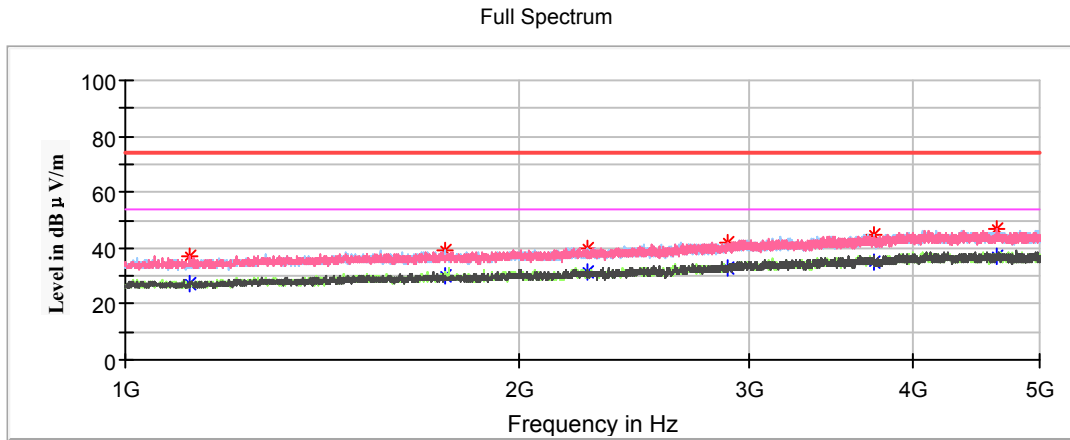


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.53	27.73	-4.61	23.12	40.00	-16.88	200	272	Peak
2	35.75	27.95	-8.28	19.67	40.00	-20.33	200	19	Peak
3	104.90	27.55	-13.79	13.76	43.50	-29.74	100	34	Peak
4	124.13	28.06	-10.91	17.15	43.50	-26.35	200	308	Peak
5	189.74	32.77	-11.61	21.16	43.50	-22.34	200	192	Peak
6	296.18	27.71	-8.80	18.91	46.00	-27.09	100	197	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1118.400000	---	27.11	54.00	26.89	100.0	V	244.0	-11.8
1118.400000	36.81	---	74.00	37.19	100.0	V	244.0	-11.8
1754.000000	---	29.87	54.00	24.13	200.0	V	7.0	-8.5
1754.000000	39.43	---	74.00	34.57	200.0	V	7.0	-8.5
2254.000000	---	31.47	54.00	22.53	200.0	H	122.0	-6.7
2254.000000	40.13	---	74.00	33.87	200.0	H	122.0	-6.7
2886.800000	---	32.91	54.00	21.09	100.0	V	68.0	-3.8
2886.800000	41.67	---	74.00	32.33	100.0	V	68.0	-3.8
3733.600000	---	35.08	54.00	18.92	200.0	H	191.0	-0.8
3733.600000	44.63	---	74.00	29.37	200.0	H	191.0	-0.8
4630.400000	---	37.28	54.00	16.72	100.0	V	49.0	1.0
4630.400000	46.67	---	74.00	27.33	100.0	V	49.0	1.0

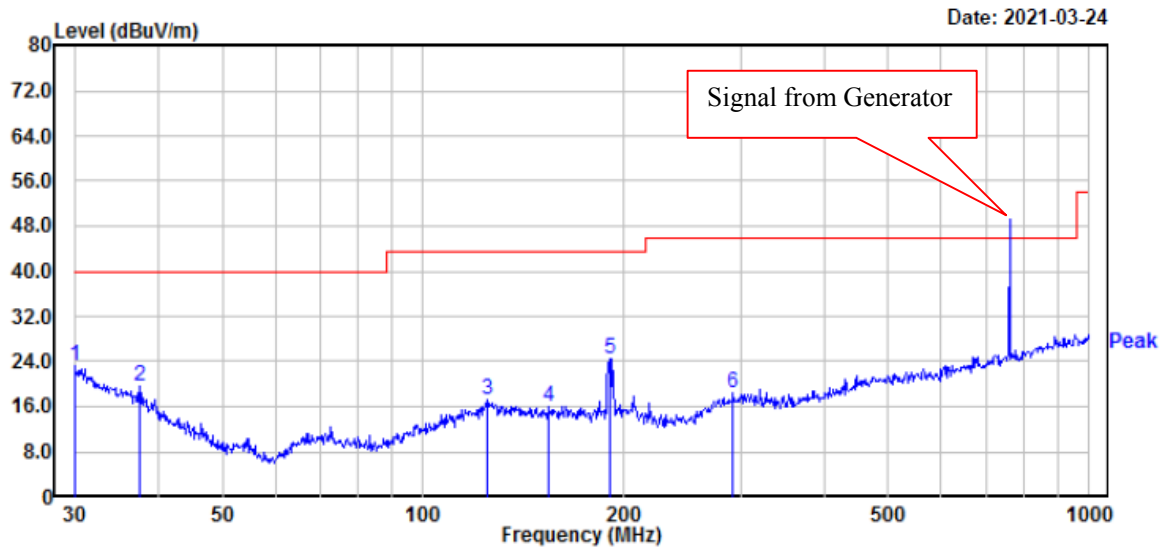
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 19:

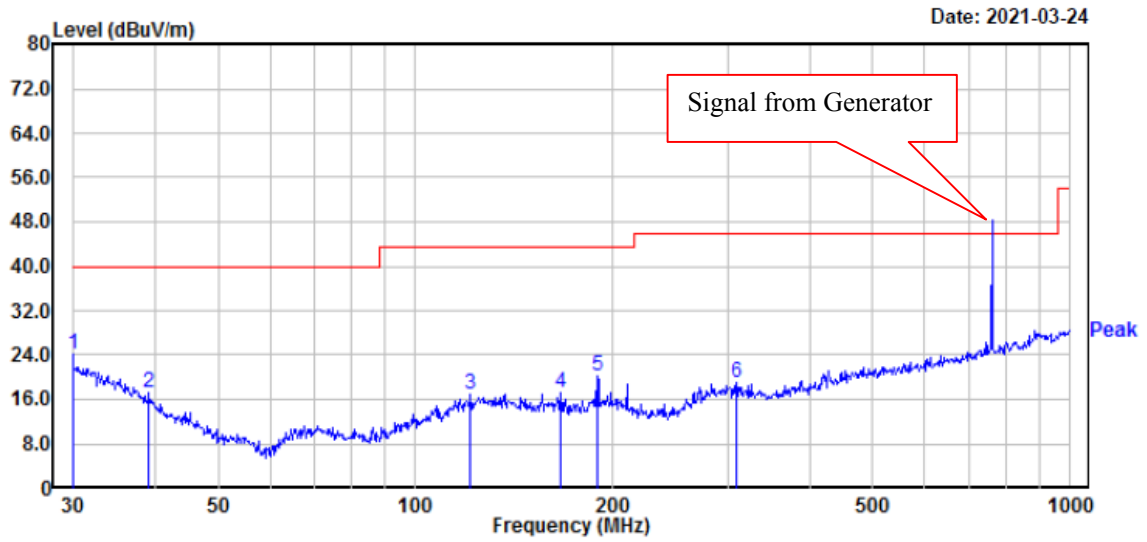
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.00	27.55	-4.24	23.31	40.00	-16.69	100	67	Peak
2	37.55	29.29	-9.60	19.69	40.00	-20.31	200	6	Peak
3	124.57	28.15	-10.85	17.30	43.50	-26.20	200	174	Peak
4	154.82	27.89	-11.74	16.15	43.50	-27.35	200	125	Peak
5	190.41	36.02	-11.56	24.46	43.50	-19.04	100	108	Peak
6	292.06	27.30	-9.02	18.28	46.00	-27.72	100	151	Peak

Vertical:

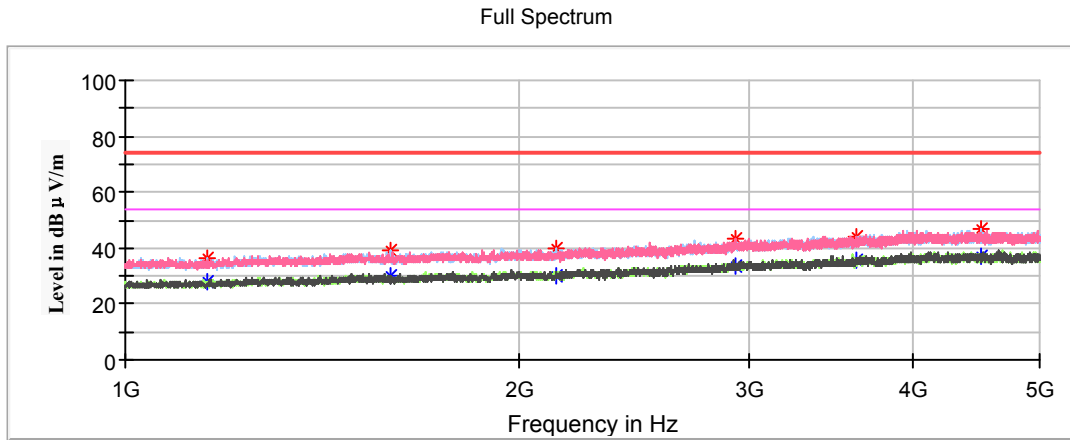


	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.00	28.32	-4.24	24.08	40.00	-15.92	200	165	Peak
2	39.16	27.85	-10.78	17.07	40.00	-22.93	100	64	Peak
3	121.55	28.26	-11.30	16.96	43.50	-26.54	100	274	Peak
4	166.65	29.11	-11.94	17.17	43.50	-26.33	200	324	Peak
5	189.74	31.89	-11.61	20.28	43.50	-23.22	200	171	Peak
6	310.00	27.77	-8.77	19.00	46.00	-27.00	100	125	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1156.400000	---	28.14	54.00	25.86	100.0	H	135.0	-11.5
1156.400000	36.60	---	74.00	37.40	100.0	H	135.0	-11.5
1595.600000	---	30.17	54.00	23.83	200.0	H	35.0	-9.1
1595.600000	39.39	---	74.00	34.61	200.0	H	35.0	-9.1
2137.200000	---	29.98	54.00	24.02	200.0	H	358.0	-7.2
2137.200000	39.99	---	74.00	34.01	200.0	H	358.0	-7.2
2927.600000	---	33.79	54.00	20.21	100.0	H	358.0	-3.6
2927.600000	43.31	---	74.00	30.69	100.0	H	358.0	-3.6
3620.400000	---	35.82	54.00	18.18	100.0	V	336.0	-1.3
3620.400000	44.21	---	74.00	29.79	100.0	V	336.0	-1.3
4506.800000	---	37.07	54.00	16.93	100.0	V	244.0	0.9
4506.800000	46.56	---	74.00	27.44	100.0	V	244.0	0.9

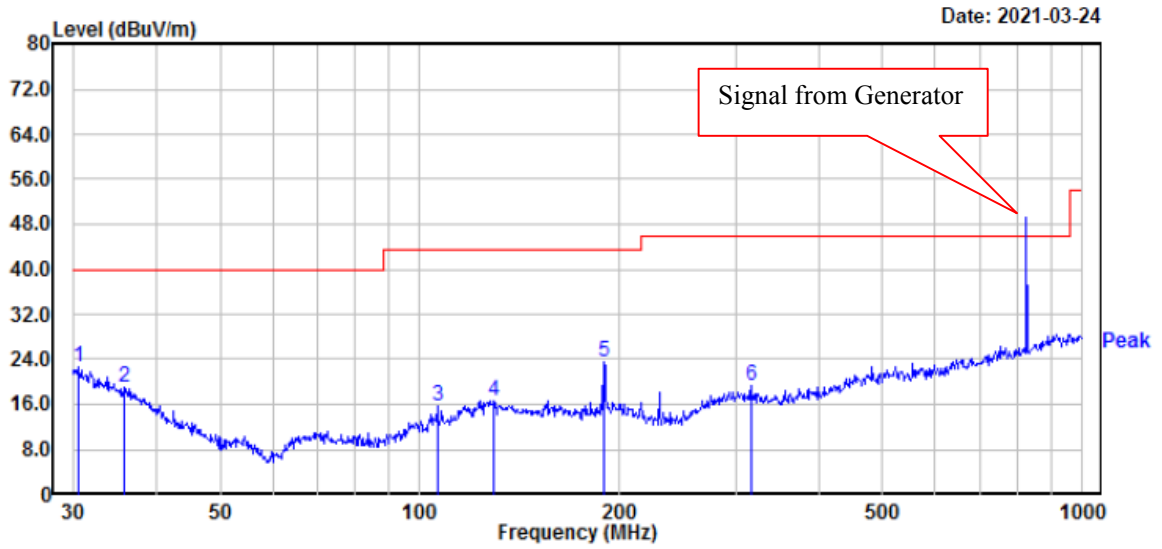
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 20:

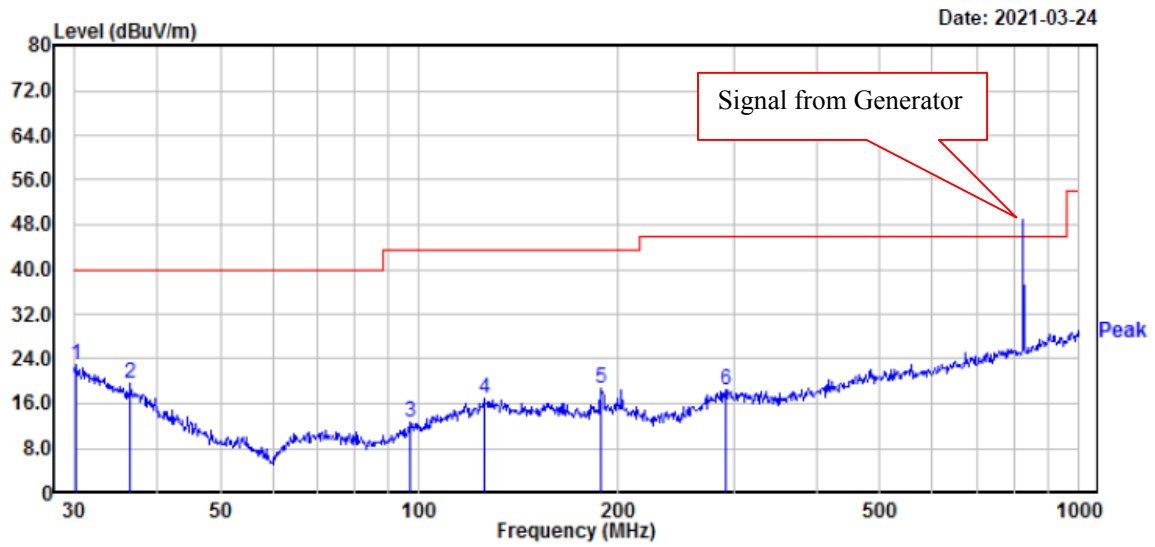
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.64	27.23	-4.68	22.55	40.00	-17.45	200	142	Peak
2	35.75	27.23	-8.28	18.95	40.00	-21.05	200	257	Peak
3	106.39	29.21	-13.58	15.63	43.50	-27.87	100	174	Peak
4	129.47	27.62	-10.99	16.63	43.50	-26.87	200	257	Peak
5	189.74	35.29	-11.61	23.68	43.50	-19.82	200	227	Peak
6	316.59	28.11	-8.89	19.22	46.00	-26.78	100	20	Peak

Vertical:

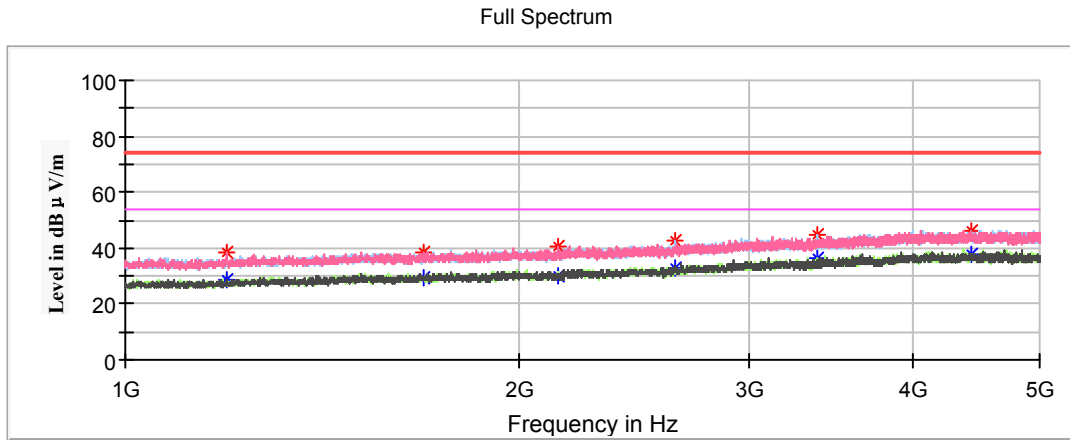


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.21	27.19	-4.39	22.80	40.00	-17.20	100	212	Peak
2	36.51	28.57	-8.84	19.73	40.00	-20.27	200	271	Peak
3	96.77	28.06	-15.40	12.66	43.50	-30.84	100	59	Peak
4	125.45	27.85	-10.80	17.05	43.50	-26.45	200	246	Peak
5	189.07	30.27	-11.65	18.62	43.50	-24.88	200	216	Peak
6	291.04	27.45	-9.08	18.37	46.00	-27.63	100	40	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1194.800000	---	28.40	54.00	25.60	200.0	V	106.0	-11.3
1194.800000	38.23	---	74.00	35.77	200.0	V	106.0	-11.3
1691.600000	---	29.38	54.00	24.62	100.0	H	213.0	-8.7
1691.600000	38.42	---	74.00	35.58	100.0	H	213.0	-8.7
2140.400000	---	30.04	54.00	23.96	100.0	H	301.0	-7.1
2140.400000	40.28	---	74.00	33.72	100.0	H	301.0	-7.1
2632.800000	---	32.98	54.00	21.02	200.0	H	84.0	-5.1
2632.800000	42.32	---	74.00	31.68	200.0	H	84.0	-5.1
3384.000000	---	36.25	54.00	17.75	100.0	H	352.0	-2.1
3384.000000	44.84	---	74.00	29.16	100.0	H	352.0	-2.1
4435.600000	---	37.60	54.00	16.40	100.0	V	325.0	0.9
4435.600000	46.39	---	74.00	27.61	100.0	V	325.0	0.9

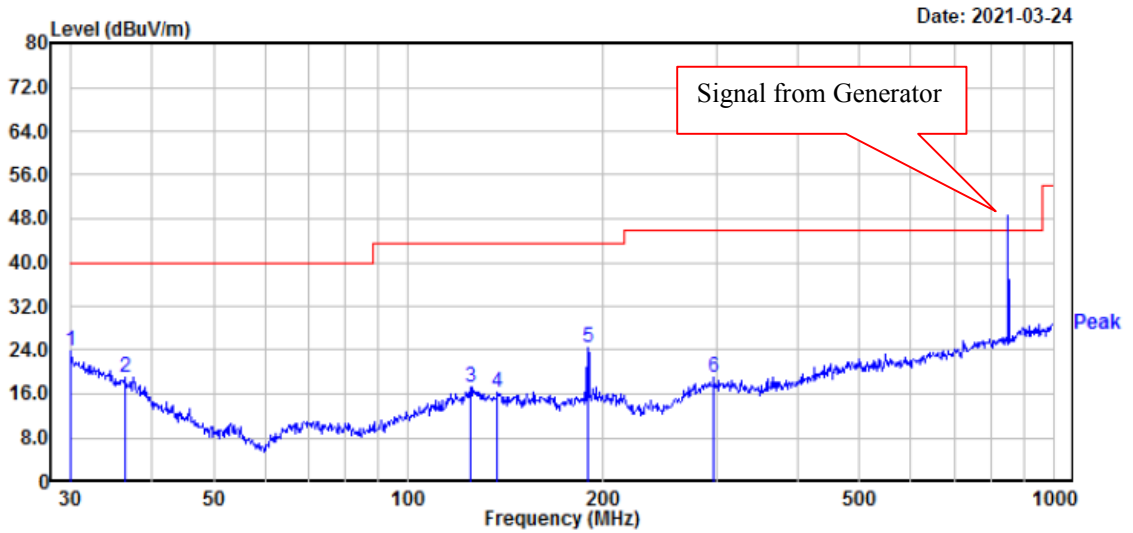
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 21:

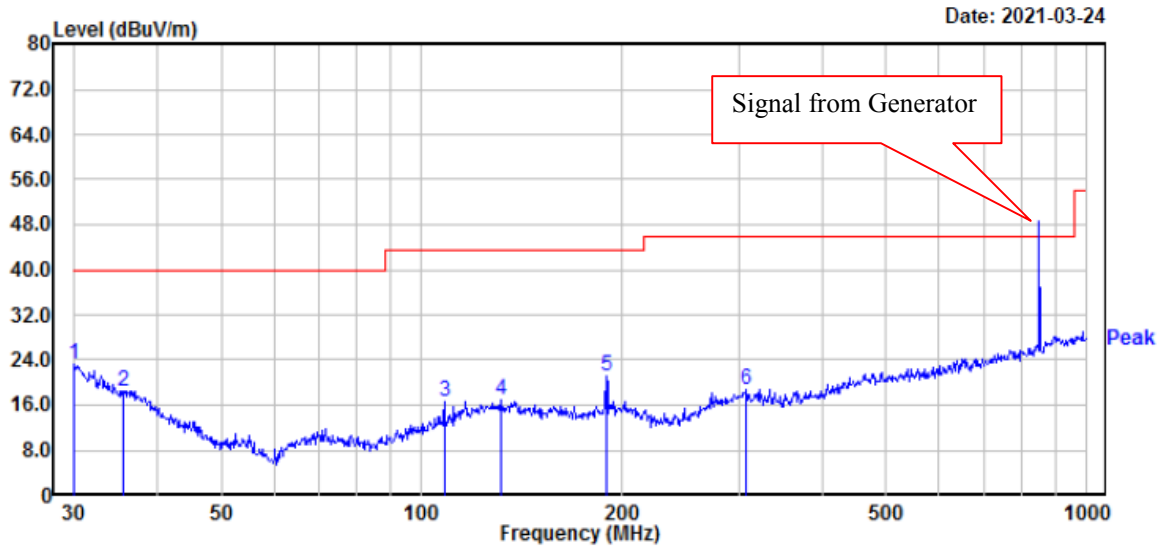
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Read Factor	Limit Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	28.02	-4.32	23.70	40.00	-16.30	200	117	Peak
2	36.51	27.99	-8.84	19.15	40.00	-20.85	100	1	Peak
3	124.57	28.14	-10.85	17.29	43.50	-26.21	200	99	Peak
4	137.42	27.80	-11.37	16.43	43.50	-27.07	100	101	Peak
5	189.74	36.06	-11.61	24.45	43.50	-19.05	100	126	Peak
6	297.22	27.70	-8.74	18.96	46.00	-27.04	200	178	Peak

Vertical:

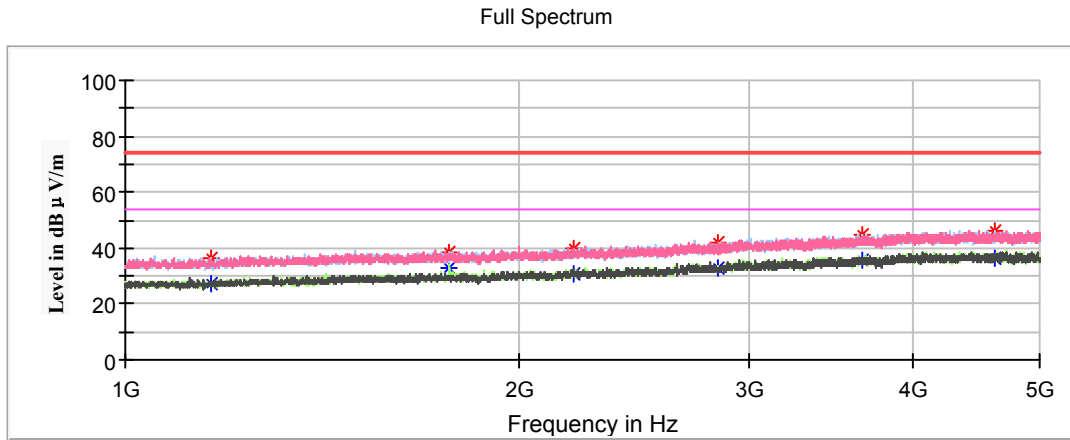


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	27.53	-4.32	23.21	40.00	-16.79	200	311	Peak
2	35.62	26.66	-8.19	18.47	40.00	-21.53	100	208	Peak
3	108.27	30.04	-13.30	16.74	43.50	-26.76	200	299	Peak
4	131.76	28.06	-11.10	16.96	43.50	-26.54	200	330	Peak
5	189.74	32.65	-11.61	21.04	43.50	-22.46	200	190	Peak
6	307.83	27.48	-8.73	18.75	46.00	-27.25	200	23	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1161.600000	---	27.54	54.00	26.46	200.0	V	129.0	-11.5
1161.600000	36.10	---	74.00	37.90	200.0	V	129.0	-11.5
1770.000000	---	33.00	54.00	21.00	200.0	H	205.0	-8.5
1770.000000	38.61	---	74.00	35.39	200.0	H	205.0	-8.5
2202.000000	---	30.76	54.00	23.24	200.0	H	127.0	-6.9
2202.000000	39.76	---	74.00	34.24	200.0	H	127.0	-6.9
2835.600000	---	32.88	54.00	21.12	100.0	H	188.0	-4.1
2835.600000	42.03	---	74.00	31.97	100.0	H	188.0	-4.1
3657.600000	---	35.78	54.00	18.22	200.0	V	159.0	-1.1
3657.600000	44.95	---	74.00	29.05	200.0	V	159.0	-1.1
4626.000000	---	36.48	54.00	17.52	100.0	V	26.0	1.0
4626.000000	46.13	---	74.00	27.87	100.0	V	26.0	1.0

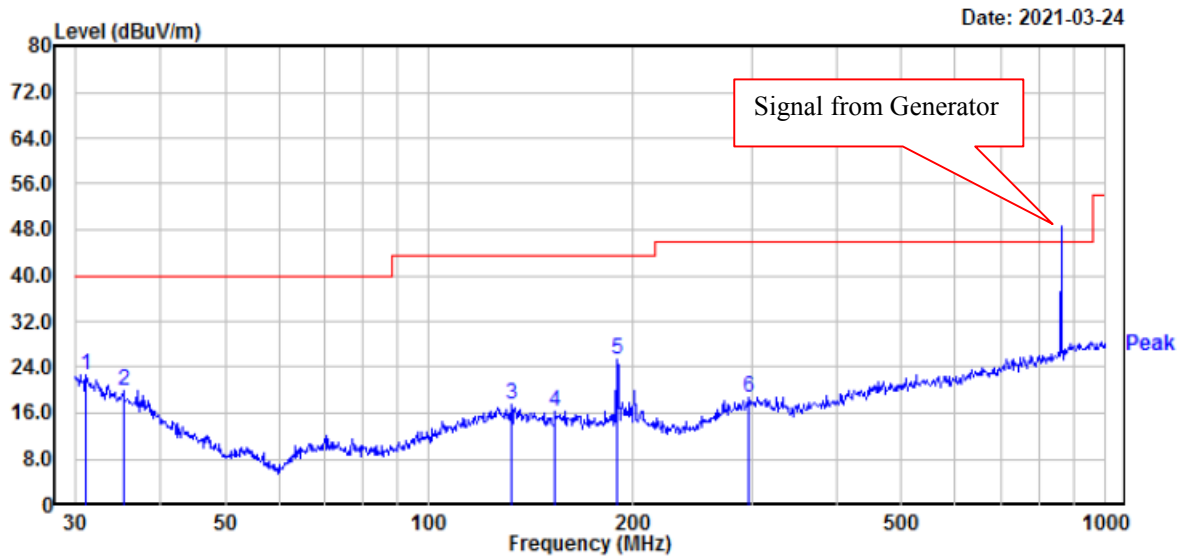
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 22:

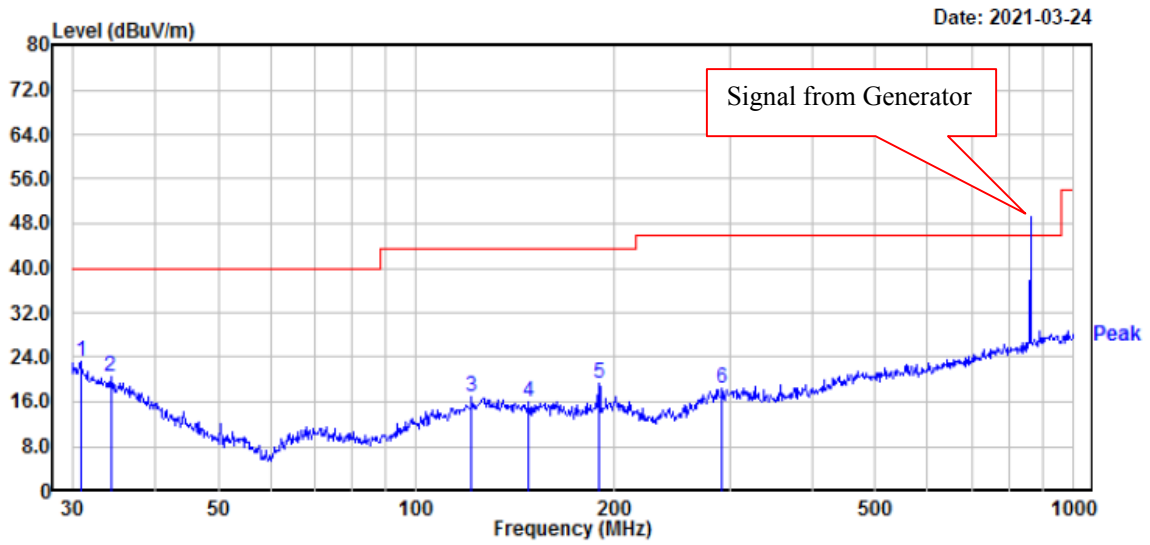
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	31.18	27.79	-5.07	22.72	40.00	-17.28	200	25	Peak
2	35.38	27.87	-8.02	19.85	40.00	-20.15	100	274	Peak
3	132.22	28.57	-11.13	17.44	43.50	-26.06	100	279	Peak
4	153.74	28.11	-11.79	16.32	43.50	-27.18	100	98	Peak
5	189.74	36.91	-11.61	25.30	43.50	-18.20	100	122	Peak
6	296.18	27.43	-8.80	18.63	46.00	-27.37	200	294	Peak

Vertical:

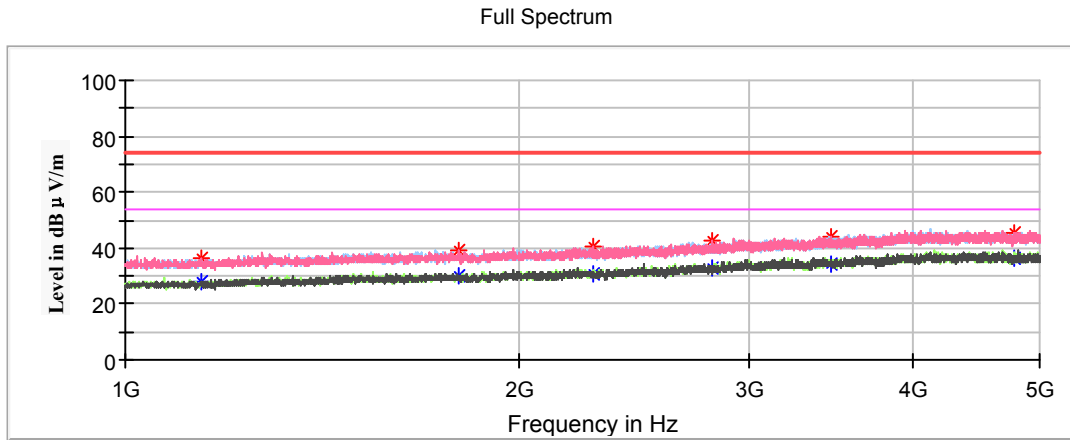


	Read	Limit	Over	APos	TPos	Remark			
Freq	Level	Factor	Level	Line	Limit				
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB				
1	30.85	28.12	-4.83	23.29	40.00	-16.71	100	53	Peak
2	34.28	27.73	-7.24	20.49	40.00	-19.51	100	175	Peak
3	121.55	28.08	-11.30	16.78	43.50	-26.72	100	236	Peak
4	148.44	27.93	-11.87	16.06	43.50	-27.44	200	154	Peak
5	189.74	31.08	-11.61	19.47	43.50	-24.03	200	154	Peak
6	292.06	27.47	-9.02	18.45	46.00	-27.55	200	361	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1141.600000	---	27.69	54.00	26.31	200.0	V	331.0	-11.6
1141.600000	36.28	---	74.00	37.72	200.0	V	331.0	-11.6
1797.200000	---	30.24	54.00	23.76	200.0	V	86.0	-8.4
1797.200000	39.24	---	74.00	34.76	200.0	V	86.0	-8.4
2276.000000	---	30.56	54.00	23.44	100.0	H	243.0	-6.6
2276.000000	40.35	---	74.00	33.65	100.0	H	243.0	-6.6
2807.600000	---	33.01	54.00	20.99	200.0	H	35.0	-4.2
2807.600000	42.35	---	74.00	31.65	200.0	H	35.0	-4.2
3467.600000	---	34.52	54.00	19.48	100.0	V	35.0	-1.9
3467.600000	44.28	---	74.00	29.72	100.0	V	35.0	-1.9
4779.600000	---	36.21	54.00	17.79	200.0	V	321.0	1.0
4779.600000	45.48	---	74.00	28.52	200.0	V	321.0	1.0

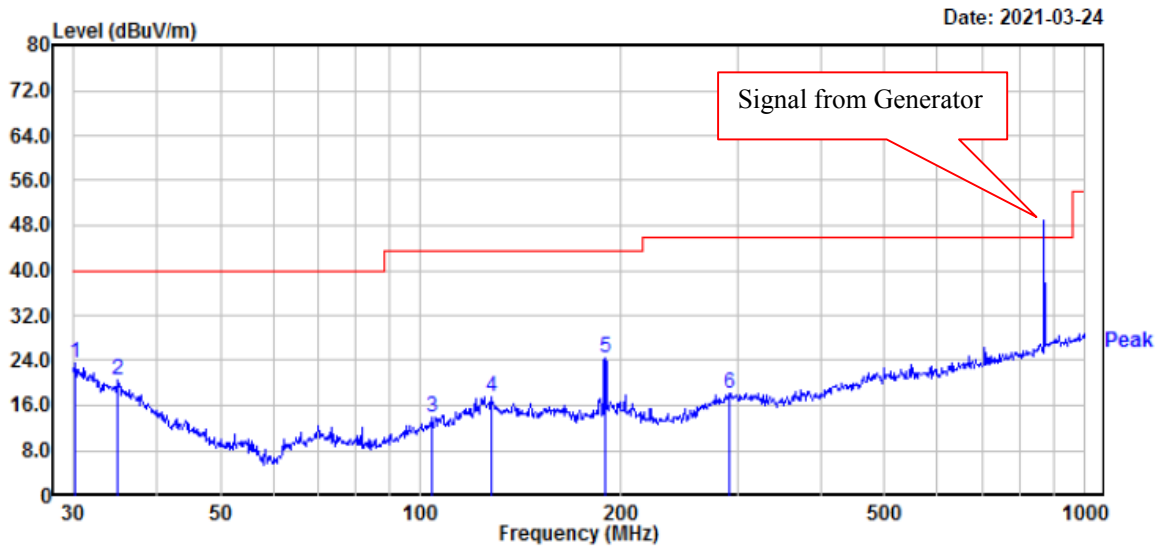
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 23:

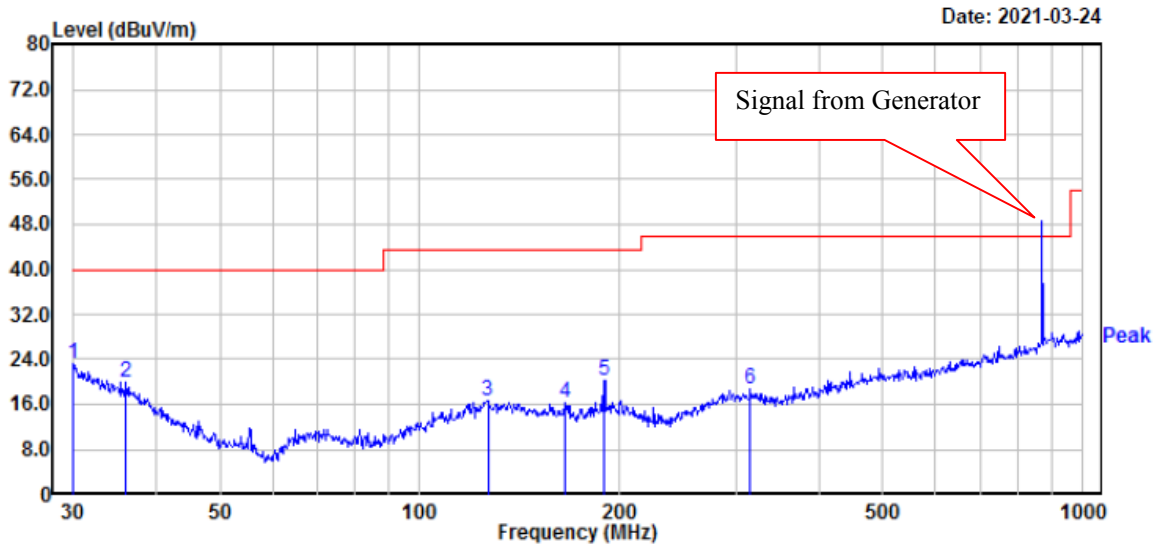
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.21	27.95	-4.39	23.56	40.00	-16.44	200	350	Peak
2	35.00	28.33	-7.74	20.59	40.00	-19.41	100	25	Peak
3	103.81	27.82	-13.96	13.86	43.50	-29.64	100	67	Peak
4	128.11	28.52	-10.93	17.59	43.50	-25.91	100	269	Peak
5	189.74	36.15	-11.61	24.54	43.50	-18.96	100	128	Peak
6	291.04	27.28	-9.08	18.20	46.00	-27.80	200	313	Peak

Vertical:

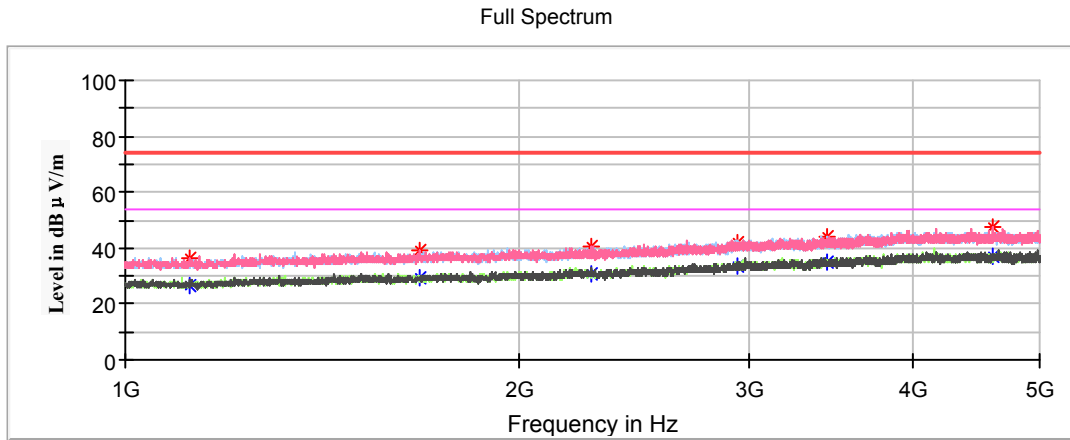


	Freq	Read Level	Factor	Level	Limit	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	27.64	-4.32	23.32	40.00	-16.68	100	292	Peak
2	36.13	28.57	-8.56	20.01	40.00	-19.99	100	189	Peak
3	126.77	27.50	-10.87	16.63	43.50	-26.87	200	38	Peak
4	165.49	28.27	-11.87	16.40	43.50	-27.10	200	44	Peak
5	189.74	31.84	-11.61	20.23	43.50	-23.27	200	185	Peak
6	315.48	27.50	-8.88	18.62	46.00	-27.38	200	315	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1119.200000	---	26.77	54.00	27.23	200.0	V	7.0	-11.8
1119.200000	36.53	---	74.00	37.47	200.0	V	7.0	-11.8
1680.800000	---	29.61	54.00	24.39	200.0	V	45.0	-8.8
1680.800000	39.09	---	74.00	34.91	200.0	V	45.0	-8.8
2274.000000	---	30.88	54.00	23.12	200.0	V	311.0	-6.7
2274.000000	40.35	---	74.00	33.65	200.0	V	311.0	-6.7
2932.400000	---	33.58	54.00	20.42	200.0	H	43.0	-3.5
2932.400000	42.23	---	74.00	31.77	200.0	H	43.0	-3.5
3443.200000	---	34.77	54.00	19.23	200.0	H	273.0	-1.9
3443.200000	44.14	---	74.00	29.86	200.0	H	273.0	-1.9
4599.200000	---	36.80	54.00	17.20	100.0	H	292.0	1.0
4599.200000	47.25	---	74.00	26.75	100.0	H	292.0	1.0

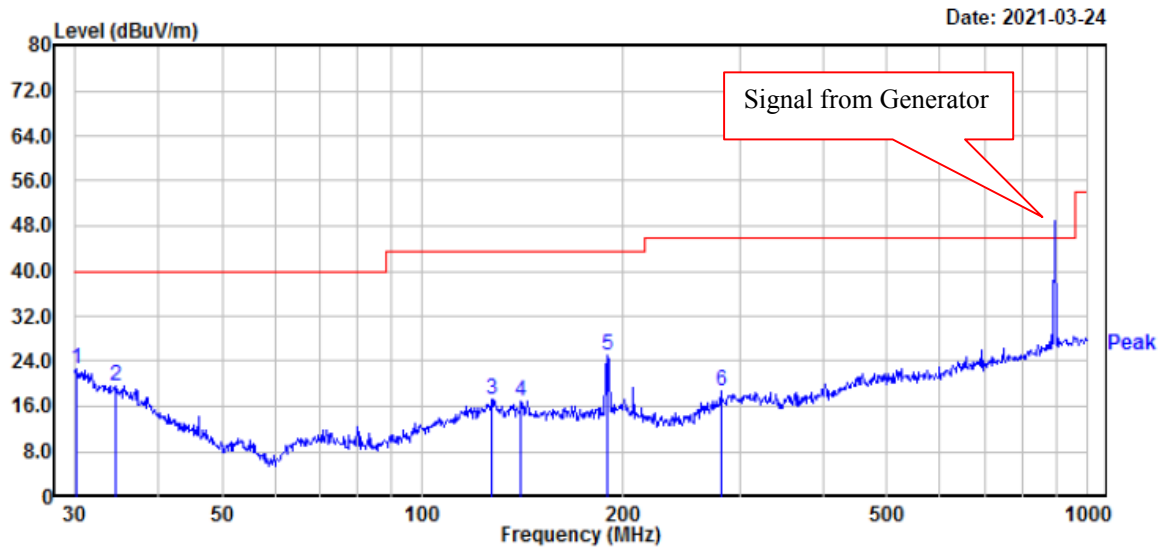
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 24:

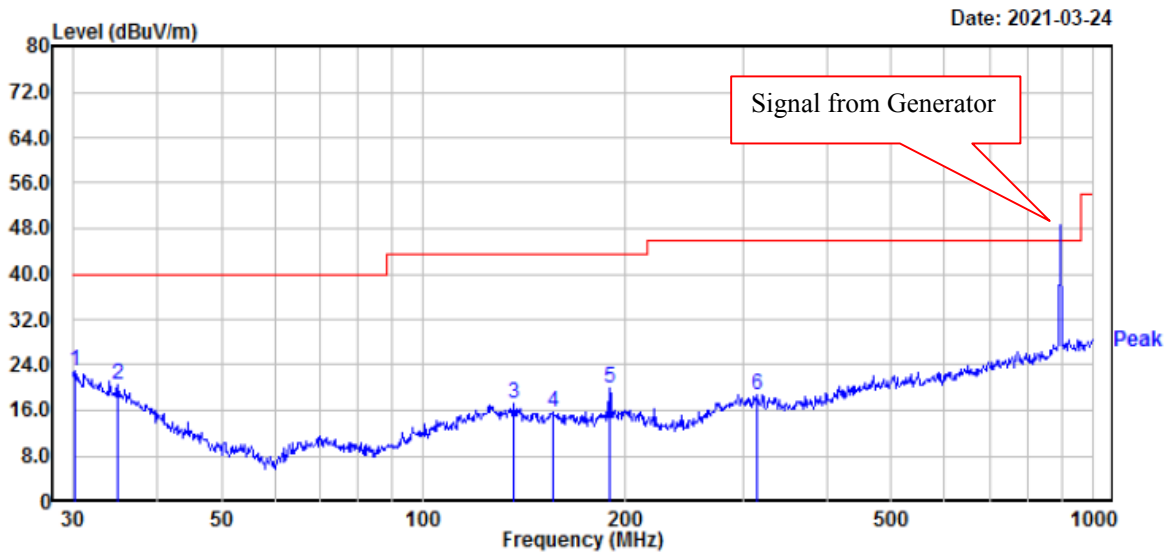
1)30MHz ~ 1GHz

Horizontal:



	Read			Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	30.21	27.05	-4.39	22.66	40.00	-17.34	200	128 Peak
2	34.52	27.11	-7.40	19.71	40.00	-20.29	200	36 Peak
3	127.22	28.15	-10.89	17.26	43.50	-26.24	100	85 Peak
4	140.84	28.51	-11.51	17.00	43.50	-26.50	200	244 Peak
5	189.74	36.58	-11.61	24.97	43.50	-18.53	100	110 Peak
6	281.01	28.44	-9.63	18.81	46.00	-27.19	100	49 Peak

Vertical:

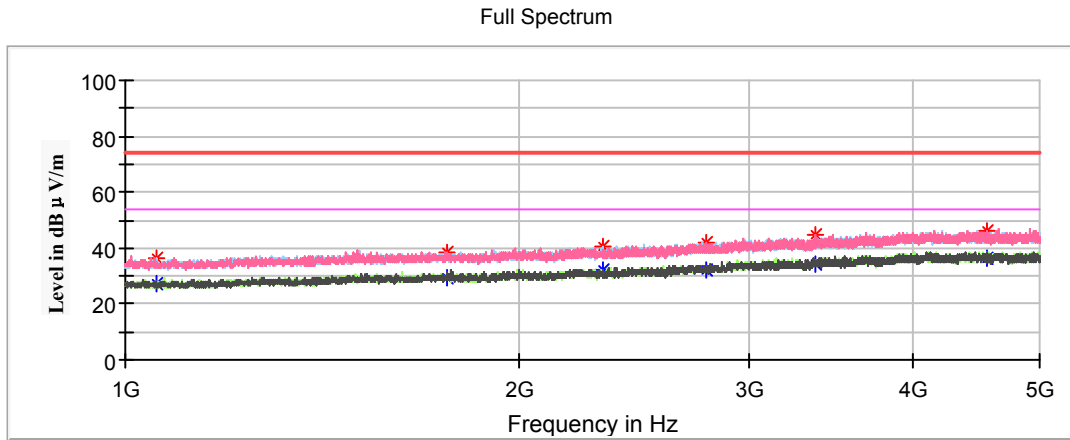


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.21	27.28	-4.39	22.89	40.00	-17.11	100	329	Peak
2	35.00	28.26	-7.74	20.52	40.00	-19.48	100	84	Peak
3	136.46	28.62	-11.32	17.30	43.50	-26.20	200	148	Peak
4	155.91	27.43	-11.70	15.73	43.50	-27.77	200	52	Peak
5	189.74	31.54	-11.61	19.93	43.50	-23.57	200	166	Peak
6	314.38	27.47	-8.85	18.62	46.00	-27.38	200	233	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1057.200000	---	27.02	54.00	26.98	100.0	H	160.0	-12.1
1057.200000	36.45	---	74.00	37.55	100.0	H	160.0	-12.1
1759.200000	---	29.32	54.00	24.68	100.0	H	277.0	-8.5
1759.200000	38.17	---	74.00	35.83	100.0	H	277.0	-8.5
2314.400000	---	32.36	54.00	21.64	200.0	H	64.0	-6.5
2314.400000	40.72	---	74.00	33.28	200.0	H	64.0	-6.5
2779.600000	---	32.30	54.00	21.70	100.0	V	15.0	-4.3
2779.600000	42.28	---	74.00	31.72	100.0	V	15.0	-4.3
3366.400000	---	33.93	54.00	20.07	200.0	V	80.0	-2.2
3366.400000	44.60	---	74.00	29.40	200.0	V	80.0	-2.2
4562.000000	---	36.66	54.00	17.34	200.0	H	214.0	0.9
4562.000000	46.28	---	74.00	27.72	200.0	H	214.0	0.9

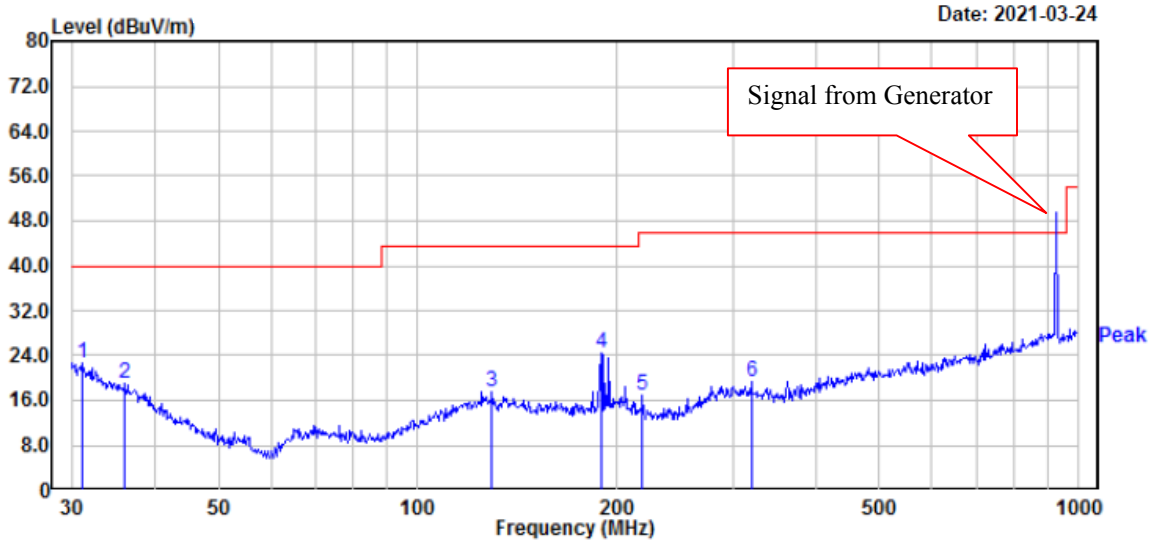
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 25:

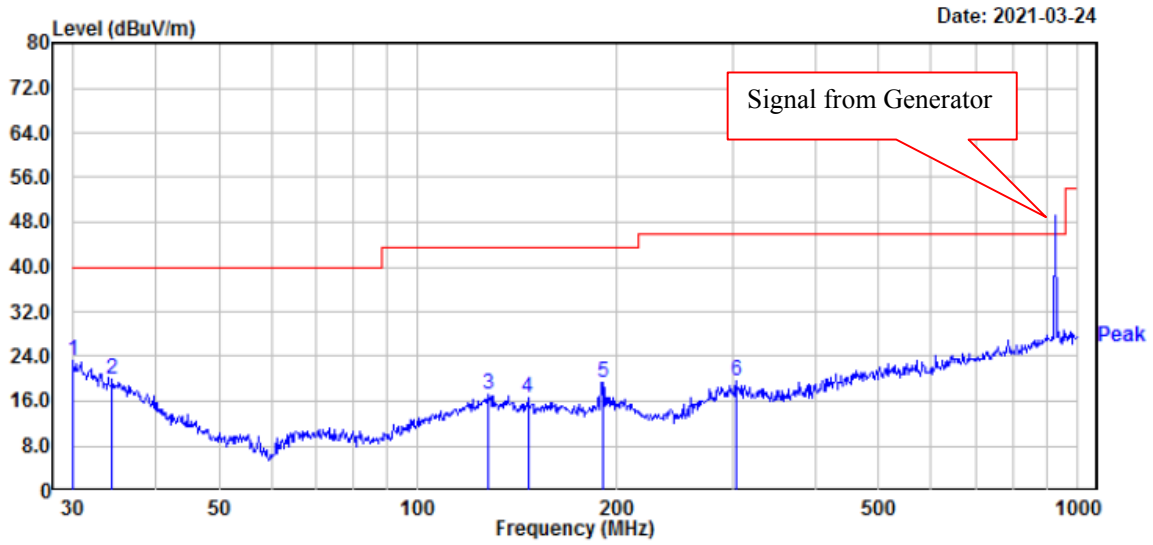
1)30MHz ~ 1GHz

Horizontal:



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	31.18	27.79	-5.07	22.72	40.00	-17.28	200	324	Peak
2	36.13	27.52	-8.56	18.96	40.00	-21.04	200	53	Peak
3	129.47	28.64	-10.99	17.65	43.50	-25.85	100	360	Peak
4	189.74	36.20	-11.61	24.59	43.50	-18.91	100	213	Peak
5	219.08	29.74	-12.93	16.81	46.00	-29.19	200	215	Peak
6	319.94	28.27	-8.96	19.31	46.00	-26.69	200	331	Peak

Vertical:

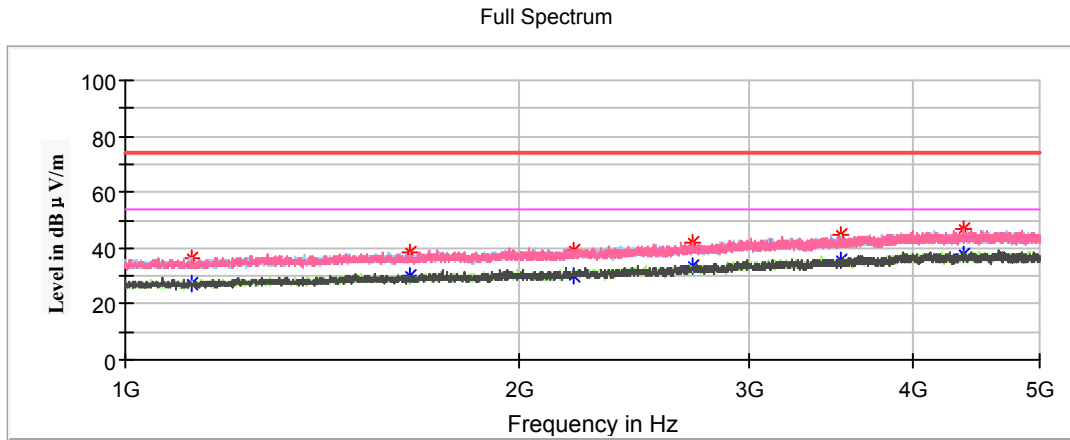


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Apos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	27.71	-4.32	23.39	40.00	-16.61	200	85	Peak
2	34.40	27.22	-7.32	19.90	40.00	-20.10	100	232	Peak
3	128.11	28.27	-10.93	17.34	43.50	-26.16	200	349	Peak
4	146.89	28.34	-11.80	16.54	43.50	-26.96	100	311	Peak
5	190.41	31.00	-11.56	19.44	43.50	-24.06	200	190	Peak
6	303.54	28.20	-8.65	19.55	46.00	-26.45	100	226	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1122.800000	---	27.30	54.00	26.70	200.0	V	286.0	-11.7
1122.800000	36.51	---	74.00	37.49	200.0	V	286.0	-11.7
1648.800000	---	29.76	54.00	24.24	200.0	V	247.0	-8.9
1648.800000	38.69	---	74.00	35.31	200.0	V	247.0	-8.9
2204.000000	---	30.39	54.00	23.61	200.0	H	2.0	-6.9
2204.000000	39.45	---	74.00	34.55	200.0	H	2.0	-6.9
2711.600000	---	33.27	54.00	20.73	200.0	H	118.0	-4.7
2711.600000	41.77	---	74.00	32.23	200.0	H	118.0	-4.7
3522.400000	---	35.84	54.00	18.16	100.0	V	7.0	-1.7
3522.400000	44.48	---	74.00	29.52	100.0	V	7.0	-1.7
4368.800000	---	37.86	54.00	16.14	100.0	V	205.0	0.8
4368.800000	46.89	---	74.00	27.11	100.0	V	205.0	0.8

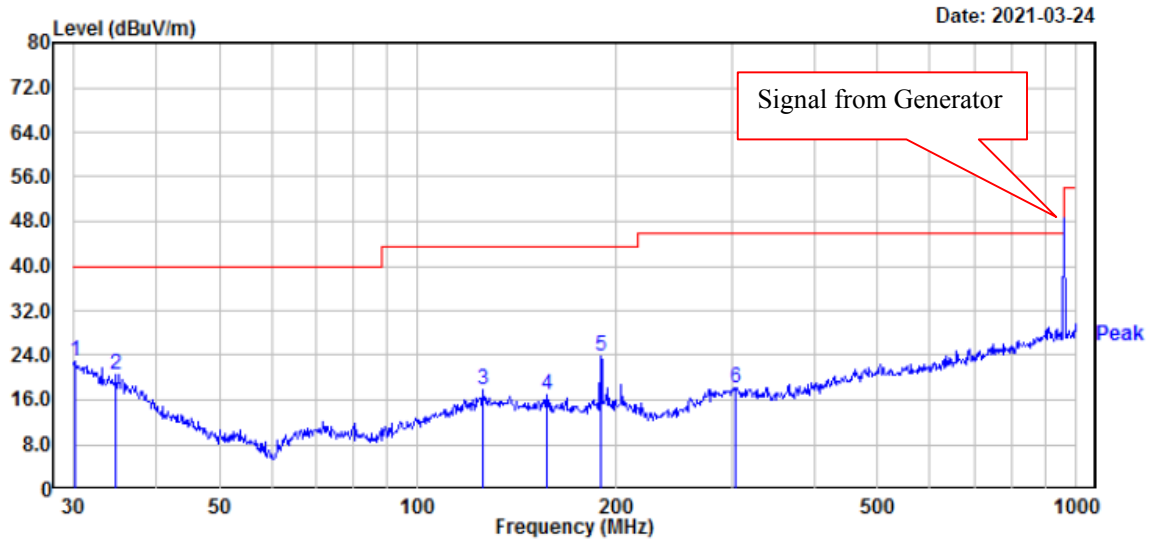
Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

Test mode 26:

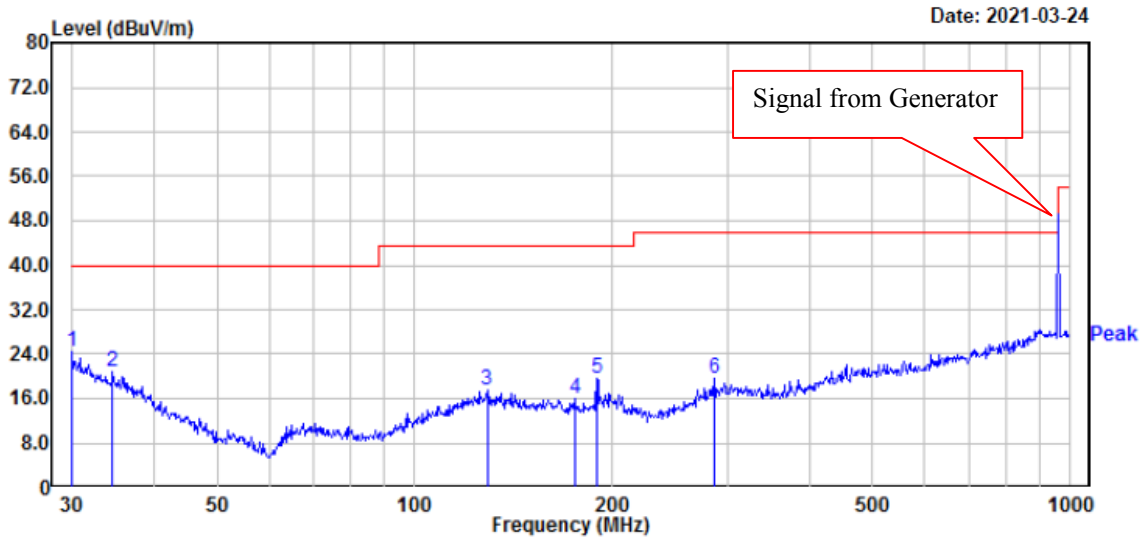
1)30MHz ~ 1GHz

Horizontal:



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.21	27.28	-4.39	22.89	40.00	-17.11	100	146	Peak
2	34.88	28.11	-7.66	20.45	40.00	-19.55	100	61	Peak
3	125.45	28.63	-10.80	17.83	43.50	-25.67	100	16	Peak
4	157.56	28.67	-11.62	17.05	43.50	-26.45	100	24	Peak
5	189.74	35.34	-11.61	23.73	43.50	-19.77	100	213	Peak
6	303.54	26.81	-8.65	18.16	46.00	-27.84	100	56	Peak

Vertical:

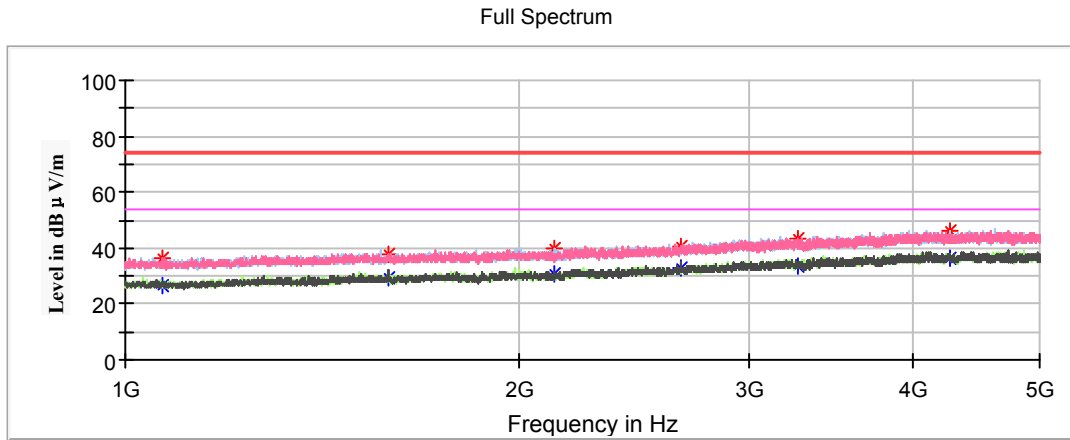


	Read Freq	Read Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.11	28.69	-4.32	24.37	40.00	-15.63	200	185	Peak
2	34.64	28.23	-7.48	20.75	40.00	-19.25	200	86	Peak
3	129.01	28.58	-10.97	17.61	43.50	-25.89	100	89	Peak
4	175.65	28.33	-12.42	15.91	43.50	-27.59	200	265	Peak
5	189.74	31.30	-11.61	19.69	43.50	-23.81	200	172	Peak
6	285.98	29.08	-9.36	19.72	46.00	-26.28	100	127	Peak

Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

2) Above 1 GHz:



Frequency (MHz)	Corrected Amplitude		Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
	Max Peak (dBμV/m)	Average (dBμV/m)						
1068.000000	---	26.84	54.00	27.16	100.0	V	136.0	-12.1
1068.000000	36.44	---	74.00	37.56	100.0	V	136.0	-12.1
1588.000000	---	29.05	54.00	24.95	200.0	V	276.0	-9.1
1588.000000	37.76	---	74.00	36.24	200.0	V	276.0	-9.1
2130.800000	---	30.54	54.00	23.46	200.0	H	58.0	-7.2
2130.800000	39.59	---	74.00	34.41	200.0	H	58.0	-7.2
2657.600000	---	32.60	54.00	21.40	200.0	V	169.0	-5.0
2657.600000	40.68	---	74.00	33.32	200.0	V	169.0	-5.0
3267.200000	---	33.25	54.00	20.75	100.0	V	146.0	-2.4
3267.200000	43.51	---	74.00	30.49	100.0	V	146.0	-2.4
4275.200000	---	36.56	54.00	17.44	200.0	H	78.0	0.7
4275.200000	45.87	---	74.00	28.13	200.0	H	78.0	0.7

Note:

- 1) Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain
- 2) Margin = Limit - Corrected Amplitude

FCC §15.111 - ANTENNA CONDUCTED POWER FOR RECEIVERS

Applicable Standard

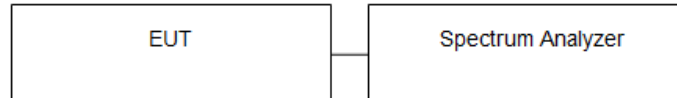
FCC §15.111

Limit

The antenna conducted power of the receiver as defined in §15.111 shall not exceed the values given in the following tables

Frequency Range	Limit
9 kHz to 5 GHz	2.0 nW (-57 dBm)

EUT Setup



Test Procedure

1. The receiver antenna terminal connected to a spectrum analyzer.
2. The test data of the worst case condition (mode 2) was reported on the following Data page.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESIB26	100146/026	2020-12-14	2021-12-13
WouXun	RF Cable	WouXun C01	C01	Each Time	/

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

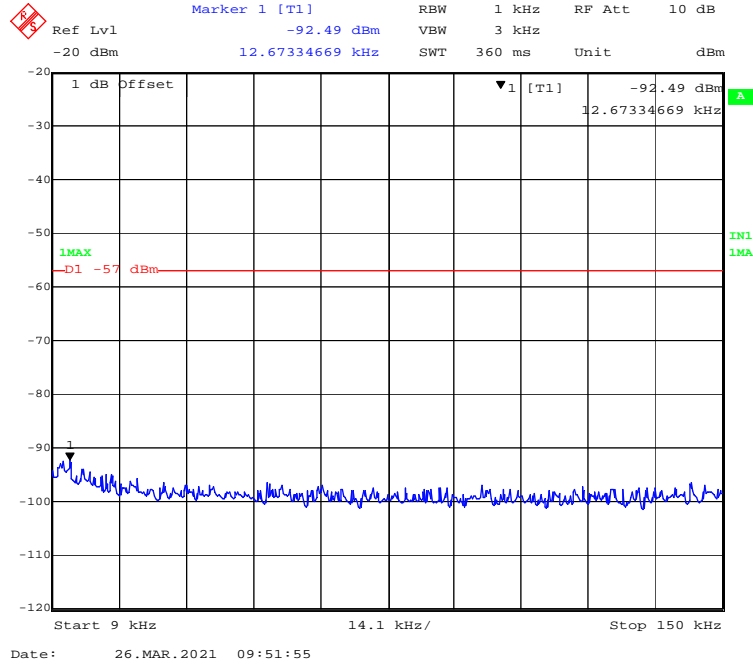
Environmental Conditions

Temperature:	25.2 °C
Relative Humidity:	51 %
ATM Pressure:	101.5 kPa

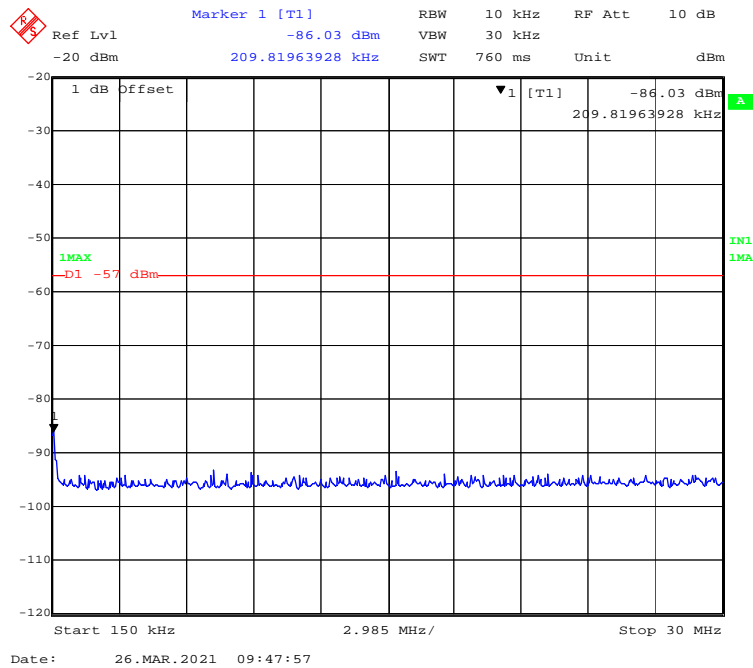
The testing was performed by Gerry Xing from 2021-03-26 to 2021-04-01.

Test mode: Scan receiver mode

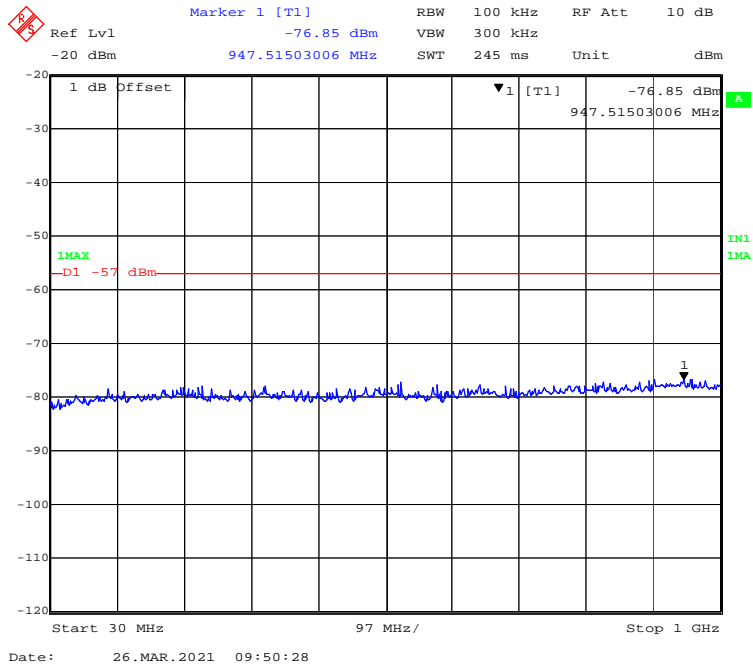
Conducted Measurement (9 kHz to 150 kHz)



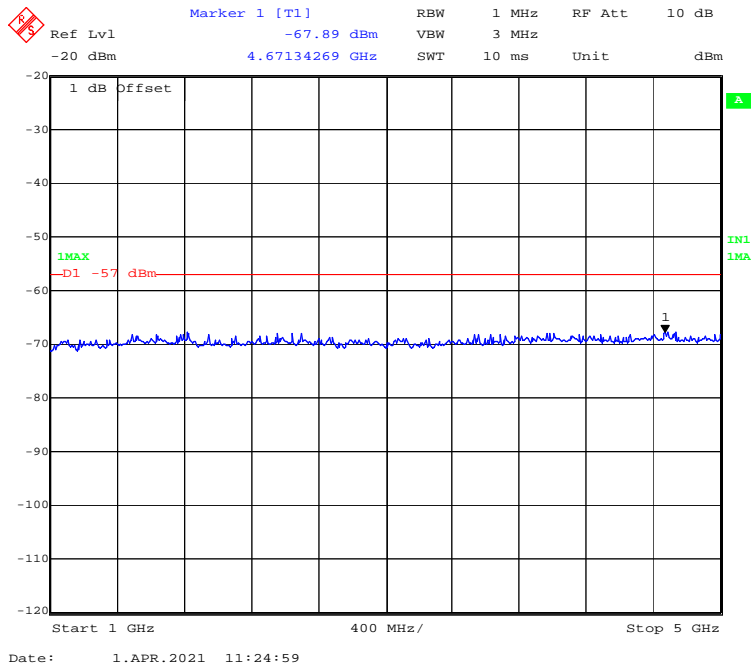
Conducted Measurement (150 kHz to 30MHz)



Conducted Measurement (30MHz to 1GHz)



Conducted Measurement (1GHz to 5GHz)



FCC §15.121(b) - SCANNING RECEIVERS AND FREQUENCY CONVERTERS USED WITH SCANNING RECEIVERS

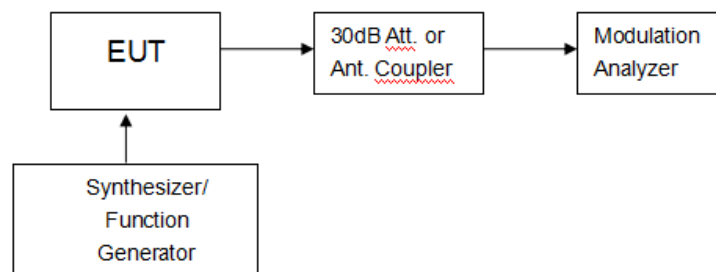
Applicable Standard

FCC §15.121(b)

Limit

Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

EUT Setup



Test Procedure

Test Procedure

- 1) Connected the EUT as shown in the above block diagram.
- 2) Apply a RF signal to the receiver input port at lowest, middle and highest channel frequencies of receiver operation band.
- 3) Adjust the audio output level of the receiver to it's rated value with the distortion less than 10%.
- 4) Adjust the RF Signal Generator Output Power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB. This output level of the RF SG at each channel frequency is the sensitivity of the receiver.
- 5) Select the lowest or worse-case sensitivity level for all of the bands as the reference sensitivity.
- 6) Adjust the RF Signal Generator output to a level of +60 dB above the reference sensitivity obtained in step 5) and its frequency to the frequency points in the cellular band.
- 7) Set the Receiver squelch to threshold, the signal required to open the squelch must be lower than the reference sensitivity level.
- 8) Set the receiver in a scanning mode and allow it to scan through it's complete receiving range.
- 9) If the receiver unsquelched or stopped on any frequency, receiving at this frequency, then adjust the signal generator output level until 12 dB SINAD is produced, this level is the spurious value and the difference between the reference sensitivity and the spurious value is the rejection ratio and must be at least 38dB.
- 10) Repeat above procedure at the frequencies 824, 836.0, and 849 MHz for the mobile band, and 869, 881.5, and 894 MHz for the cellular base band.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Narda	Attenuator	30dB	030	2020-08-15	2021-08-14
Rohde & Schwarz	SMBV100A Vector Signal Generator	SMBV100A	261558	2020-07-28	2021-07-27
HP	RF communication test SET.	8920B	079	2020-04-01	2021-03-31
WouXun	RF Cable	WouXun C01	C01	Each Time	/

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	25.2 °C
Relative Humidity:	51 %
ATM Pressure:	101.5 kPa

The testing was performed by Gerry Xing on 2021-03-26.

Test mode: Operating

EUT's Scanning Frequency Range (MHz)	Test Frequencies of Cellular Band (MHz)	Measurement Result (dB)	Limit (dB)
76-108	824, 836.0, 849, 869, 881.5, 894	51	>38
108-136	824, 836.0, 849, 869, 881.5, 894	48	>38
136-180	824, 836.0, 849, 869, 881.5, 894	47	>38
230-250	824, 836.0, 849, 869, 881.5, 894	50	>38
350-400	824, 836.0, 849, 869, 881.5, 894	54	>38
400-512	824, 836.0, 849, 869, 881.5, 894	45	>38
700-824	824, 836.0, 849, 869, 881.5, 894	47	>38
849-869	824, 836.0, 849, 869, 881.5, 894	49	>38
894-960	824, 836.0, 849, 869, 881.5, 894	48	>38

Note: Only the worst test result was recorded.

Declarations

1: BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

2: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

3: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

4: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

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