

TEST REPORT

Application No.: GZCR2303000238AT
Applicant: Lorex Technology Inc.
Address of Applicant: 250 Royal Crest Court, Markham, ON L3R 3S1 Canada
Manufacturer: Lorex Technology Inc.
Address of Manufacturer: 250 Royal Crest Court, Markham, ON L3R 3S1 Canada
Factory: Lorex Technology Inc.
Address of Factory: 250 Royal Crest Court, Markham, ON L3R 3S1 Canada
Equipment Under Test (EUT):
EUT Name: 4K Spotlight Outdoor Battery Security Camera
Model No.: U855AA-Z
Trade Mark: LOREX
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2023-03-06
Date of Test: 2023-03-22 to 2023-03-30
Date of Issue: 2023-04-18

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Ricky Liu
Manager



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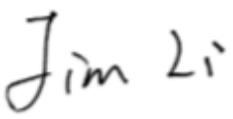
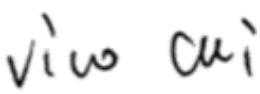
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-TRF-01 Rev 1.1

Report No.: GZCR230300023802

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Revision Record			
Version	Report No.	Date	Remark
01	GZCR230300023802	2023-04-18	Original

Authorized for issue by			
		 _____ Jim Li/Project Engineer	
		 _____ Vico Cui/Reviewer	

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.7 V powered by Lithium ion battery pack refer to section 4.2
Cable(s):	DC input ports
	SD card ports
Test Voltage:	AC 120 V, 60 Hz powered by AC/DC adapter refer to section 4.2
	802.11ah(2MHz): 905MHz to 925MHz;
Operation Frequency:	802.11ah(4MHz): 906MHz to 926MHz; 802.11ah(8MHz): 908MHz to 924MHz
Modulation Type:	BPSK, QPSK, QAM16, QAM64 802.11ah(2MHz): 11;
Number of Channels:	802.11ah(4MHz): 6; 802.11ah(8MHz): 3.
	802.11ah(2MHz): 2MHz;
Channel Spacing:	802.11ah(4MHz): 4MHz; 802.11ah(8MHz): 8MHz.
Antenna Type:	Integral Antenna
Antenna Gain:	2.16 dBi Max
Antenna Number:	1

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ
AC/DC Adapter	MEAN WELL	Model: RSP-75-5; Input: AC 100-240V, 0.9A, 50/60Hz; Output: DC 5V, 15A max.	/
Lithium ion battery pack	/	5800mAH, DC 3.7V, 21.46WH	/



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m); ±4.38dB (30MHz-1GHz; 10m); ± 5.12dB (1GHz-6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±5.00dB (3m); ±4.38dB (10m)
Radiated Spurious Emissions Above 1GHz	±5.12dB (1GHz-6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IEC60068-2-27 and Rules of procedure IEC60068-2-27, and the relevant IEC60068-2-27 Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2022-08-24	2023-08-23
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2022-09-09	2023-09-08
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Power Spectrum Density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A



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Conducted Band Edges Measurement

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Spurious Emissions

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2023-02-20	2024-02-19
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2022-04-20	2023-04-29
TRILOG Broadband Antenna (25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Times Microwave	BL03-NMNM-6	EMC2239	2022-05-18	2024-05-17
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A

Radiated Spurious Emissions Below 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2023-02-20	2024-02-19
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2022-04-20	2023-04-29
TRILOG Broadband Antenna (25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Times Microwave	BL03-NMNM-6	EMC2239	2022-05-18	2024-05-17
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A



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Radiated Spurious Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2022-12-16	2023-12-15
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2022-12-16	2023-12-15
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2022-12-16	2023-12-15
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2022-10-21	2023-10-20
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.16 dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

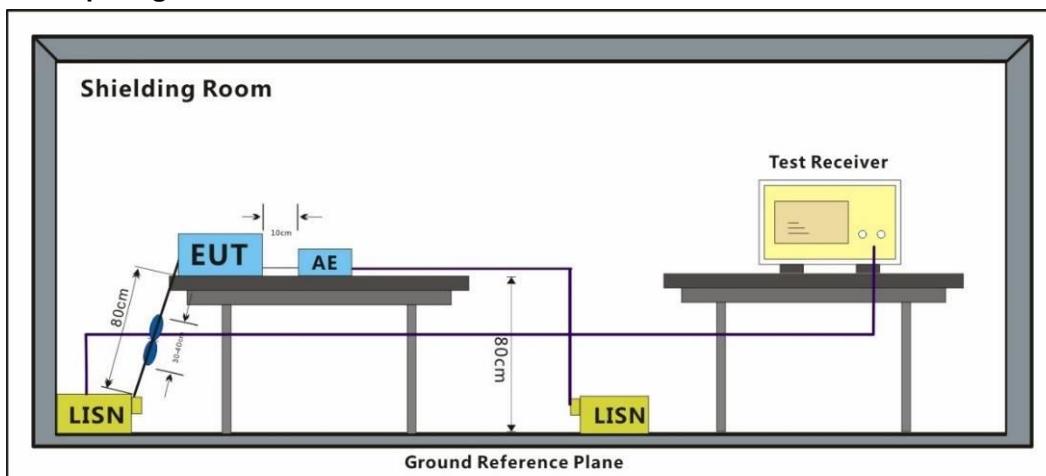
Operating Environment:

Temperature: 24.8 °C Humidity: 55.8 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode / Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

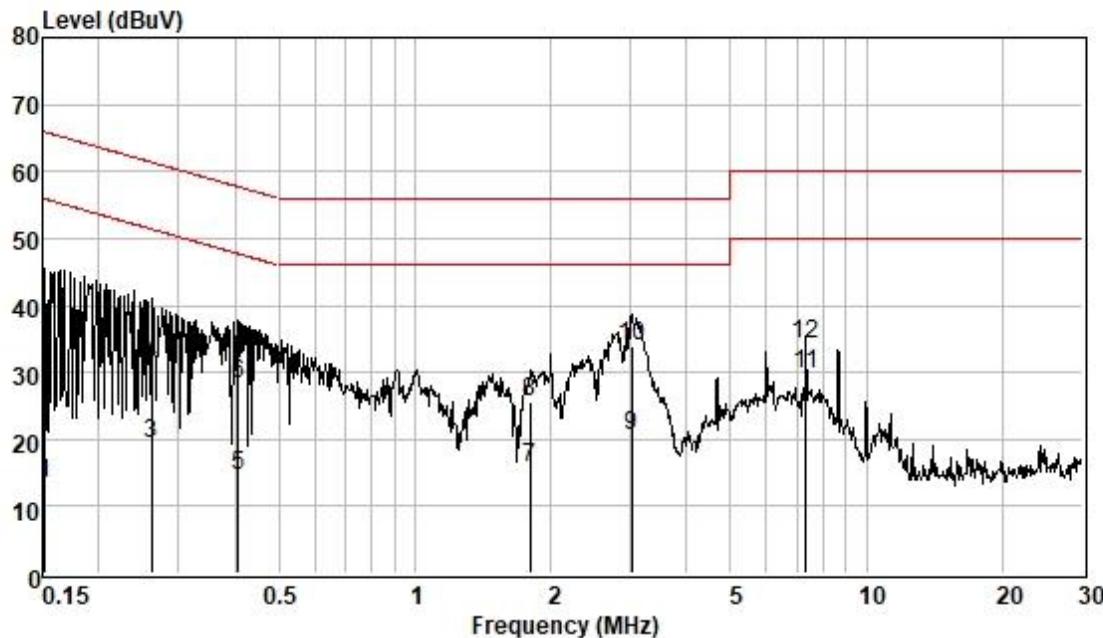
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 00; Line: Live line



Pol :LINE

Mode :

Model :

Power :

	Frequenc	Read	Cable	LISN	Measured	Limit	Over	Remark
	MHz	Level	Loss	Factor	Level	Line	Limit	dB
		dBuV	dB	dB	dBuV	dBuV		
1	0.152	3.60	0.06	9.61	13.27	55.91	-42.64	Average
2	0.152	26.61	0.06	9.61	36.28	65.91	-29.63	QP
3	0.262	9.75	0.06	9.61	19.42	51.38	-31.96	Average
4	0.262	21.50	0.06	9.61	31.17	61.38	-30.21	QP
5	0.406	4.96	0.06	9.59	14.61	47.73	-33.12	Average
6	0.406	18.48	0.06	9.59	28.13	57.73	-29.60	QP
7	1.800	6.04	0.11	9.62	15.77	46.00	-30.23	Average
8	1.800	15.75	0.11	9.62	25.48	56.00	-30.52	QP
9	3.025	10.75	0.14	9.63	20.52	46.00	-25.48	Average
10	3.025	24.00	0.14	9.63	33.77	56.00	-22.23	QP
11	7.329	20.03	0.20	9.66	29.89	50.00	-20.11	Average
12	7.329	24.39	0.20	9.66	34.25	60.00	-25.75	QP

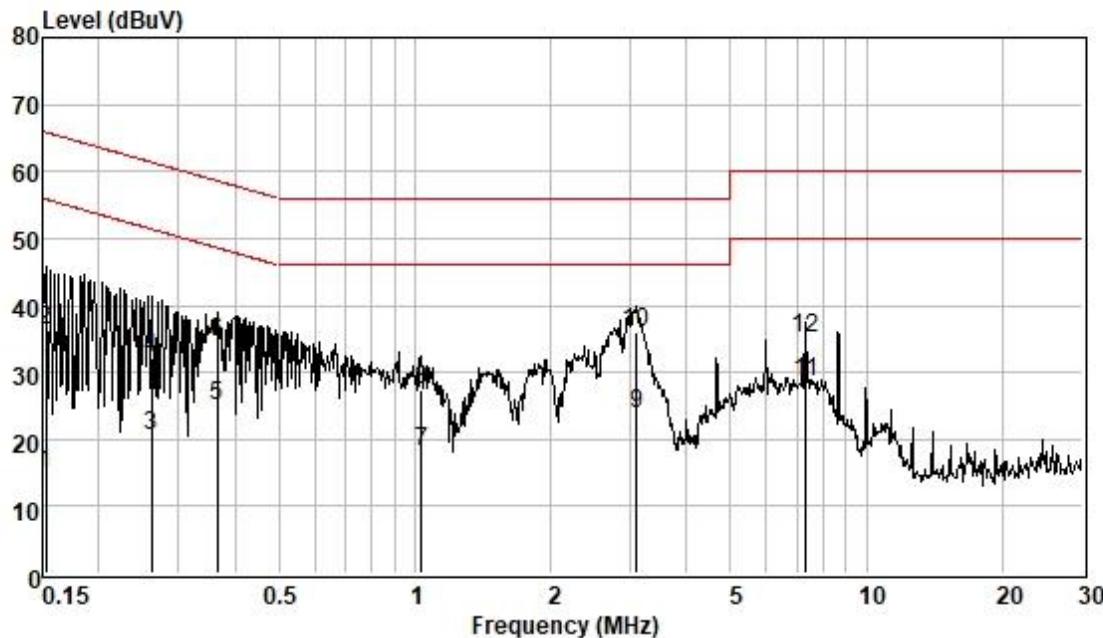
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Test Mode: 00; Line: Neutral Line



Pol :NEUTRAL

Mode :

Model :

Power :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.152	5.33	0.06	9.63	15.02	55.87	-40.85	Average
2	0.152	26.68	0.06	9.63	36.37	65.87	-29.50	QP
3	0.262	10.97	0.06	9.60	20.63	51.38	-30.75	Average
4	0.262	22.40	0.06	9.60	32.06	61.38	-29.32	QP
5	0.365	15.33	0.06	9.62	25.01	48.61	-23.60	Average
6	0.365	24.77	0.06	9.62	34.45	58.61	-24.16	QP
7	1.032	8.52	0.07	9.61	18.20	46.00	-27.80	Average
8	1.032	17.56	0.07	9.61	27.24	56.00	-28.76	QP
9	3.090	13.90	0.14	9.63	23.67	46.00	-22.33	Average
10	3.090	26.17	0.14	9.63	35.94	56.00	-20.06	QP
11	7.329	18.63	0.20	9.68	28.51	50.00	-21.49	Average
12	7.329	25.28	0.20	9.68	35.16	60.00	-24.84	QP

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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.2.1 E.U.T. Operation

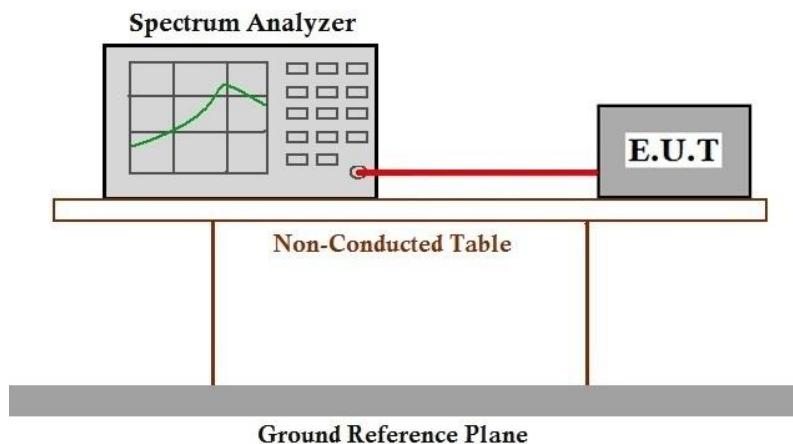
Operating Environment:

Temperature: 23.0 °C Humidity: 65.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

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7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥ 500 kHz

7.3.1 E.U.T. Operation

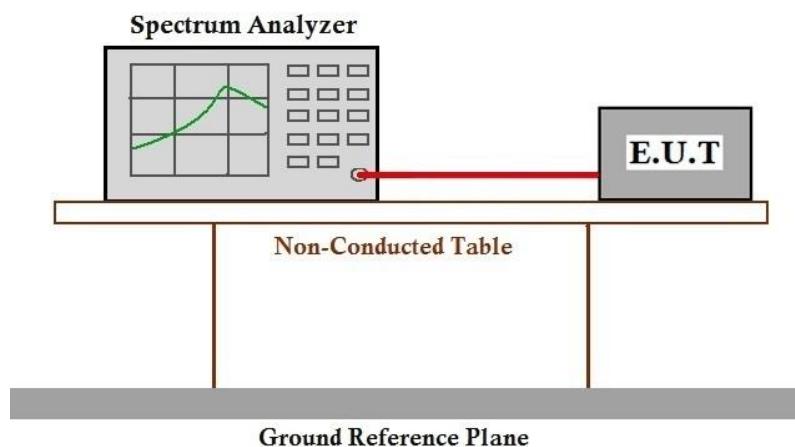
Operating Environment:

Temperature: 23.0 °C Humidity: 65.4 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode / Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.4 Power Spectrum Density

- Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2
Limit: ≤8dBm in any 3 kHz band during any time interval of continuous transmission

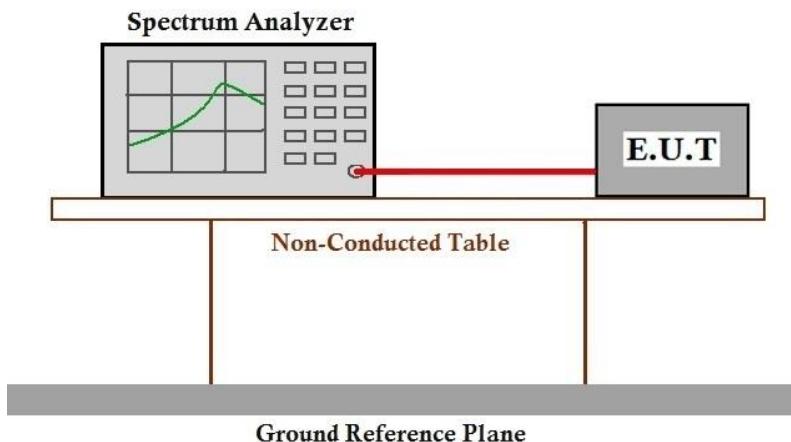
7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 23.0 °C Humidity: 65.4 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.5.1 E.U.T. Operation

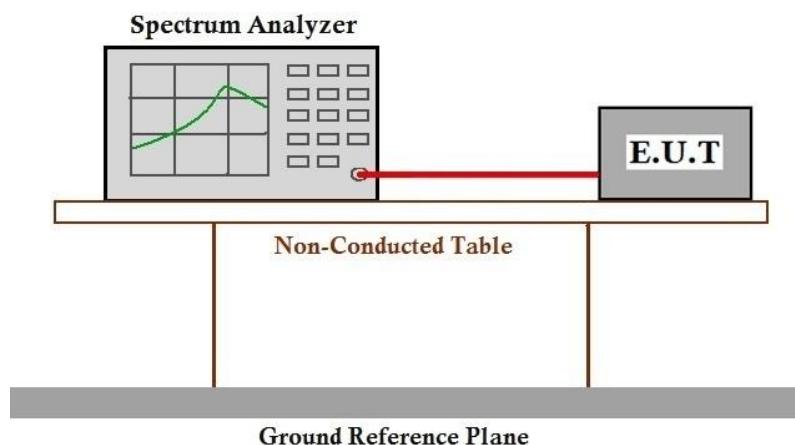
Operating Environment:

Temperature: 23.0 °C Humidity: 65.4 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.6.1 E.U.T. Operation

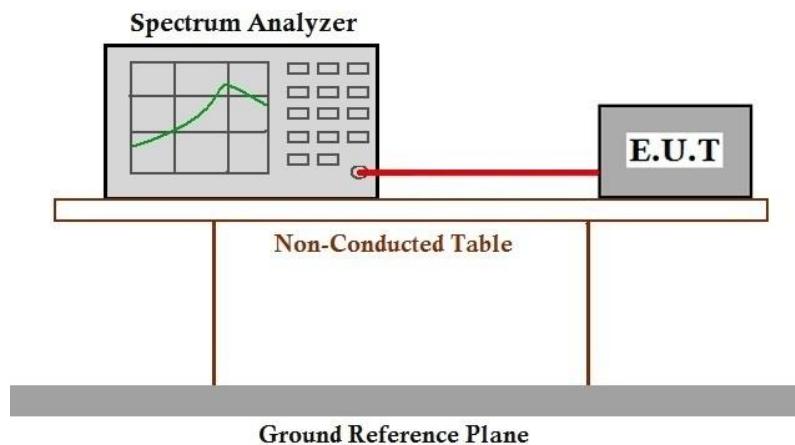
Operating Environment:

Temperature: 23.0 °C Humidity: 65.4 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Test Distance: 3 m

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

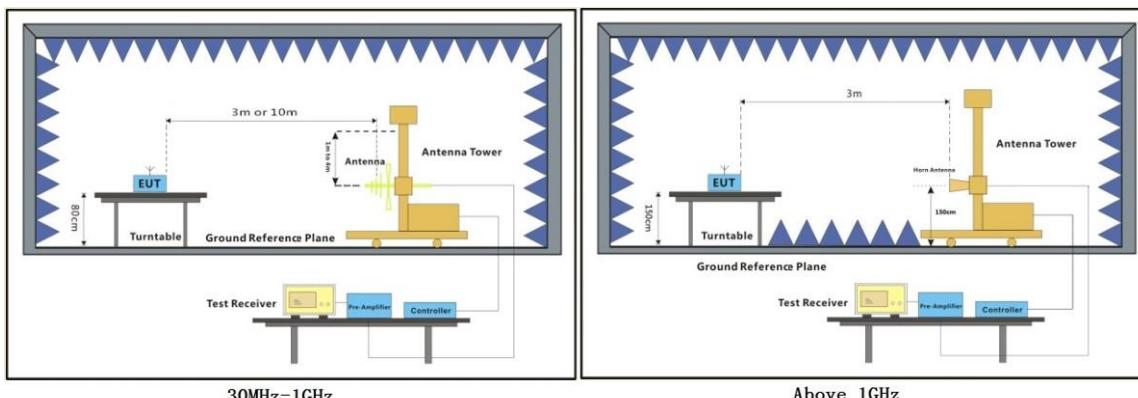
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C Humidity: 58.6 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode / Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.7.3 Test Setup Diagram

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7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

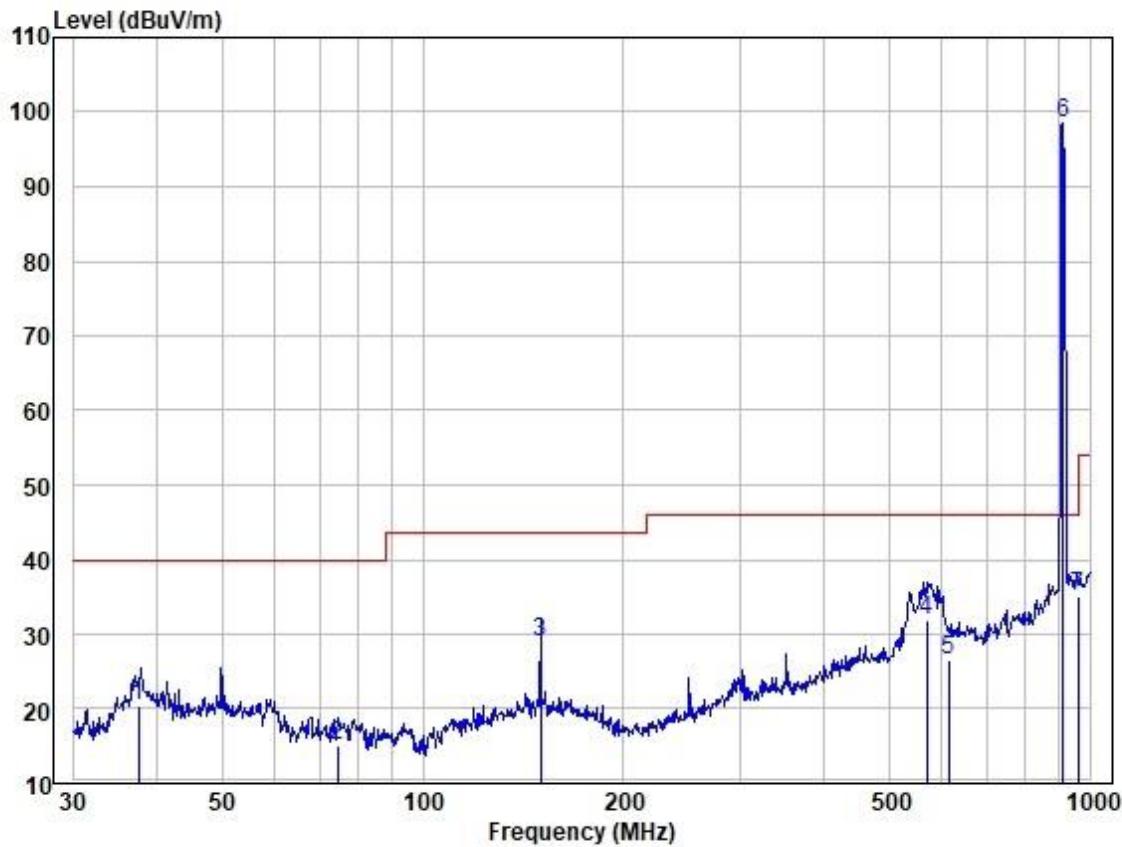
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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Test Mode: 00; Polarity: Vertical; Bandwidth:2MHz; Channel:Low



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : LOW

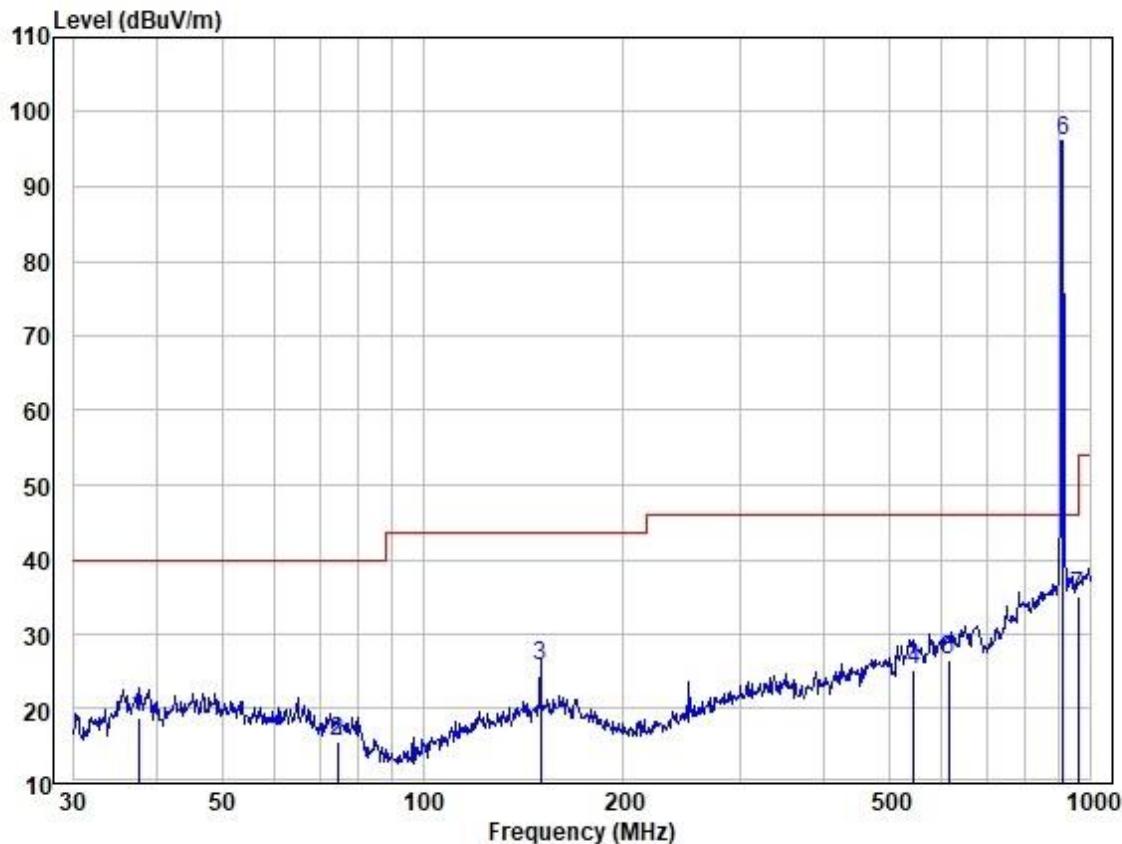
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	37.500	33.82	18.73	0.90	32.96	20.49	40.00	-19.51	VERTICAL QP
2	74.600	30.79	16.25	1.00	33.00	15.04	40.00	-24.96	VERTICAL QP
3	150.050	41.50	19.04	1.40	33.00	28.94	43.52	-14.58	VERTICAL QP
4	568.613	37.22	24.92	3.18	33.37	31.95	46.02	-14.07	VERTICAL QP
5	614.000	30.72	25.92	3.25	33.39	26.50	46.02	-19.52	VERTICAL QP
6	905.667	96.95	29.52	4.23	32.19	98.51	46.02	52.49	VERTICAL QP
7	960.000	32.81	29.74	4.10	31.64	35.01	46.02	-11.01	VERTICAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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Test Mode: 00; Polarity: Horizontal; Bandwidth:2MHz; Channel:Low



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : LOW

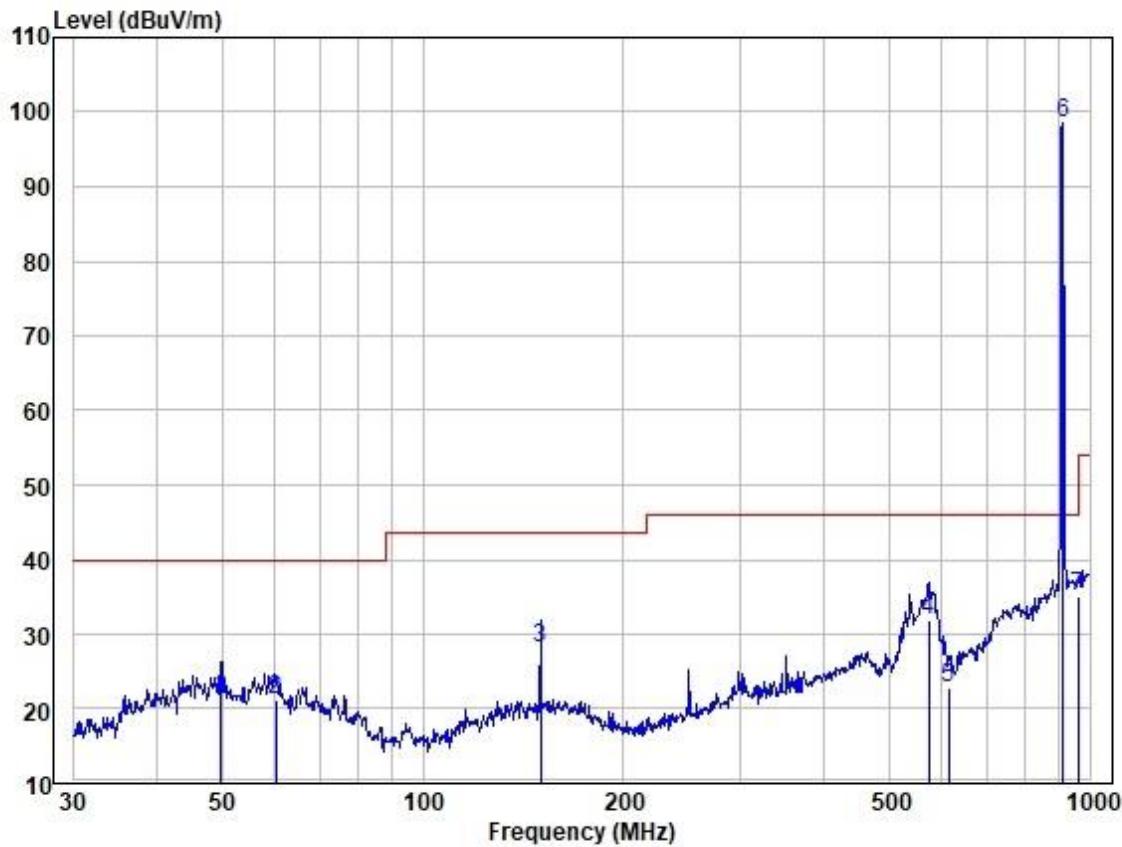
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	37.500	32.10	18.73	0.90	32.96	18.77	40.00	-21.23	HORIZONTAL QP
2	74.600	31.23	16.25	1.00	33.00	15.48	40.00	-24.52	HORIZONTAL QP
3	150.050	38.21	19.04	1.40	33.00	25.65	43.52	-17.87	HORIZONTAL QP
4	545.183	31.20	24.31	3.08	33.35	25.24	46.02	-20.78	HORIZONTAL QP
5	614.000	30.82	25.92	3.25	33.39	26.60	46.02	-19.42	HORIZONTAL QP
6	905.667	94.47	29.52	4.23	32.19	96.03	46.02	50.01	HORIZONTAL QP
7	960.000	32.81	29.74	4.10	31.64	35.01	46.02	-11.01	HORIZONTAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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Test Mode: 00; Polarity: Vertical; Bandwidth:2MHz; Channel:middle



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode : MID

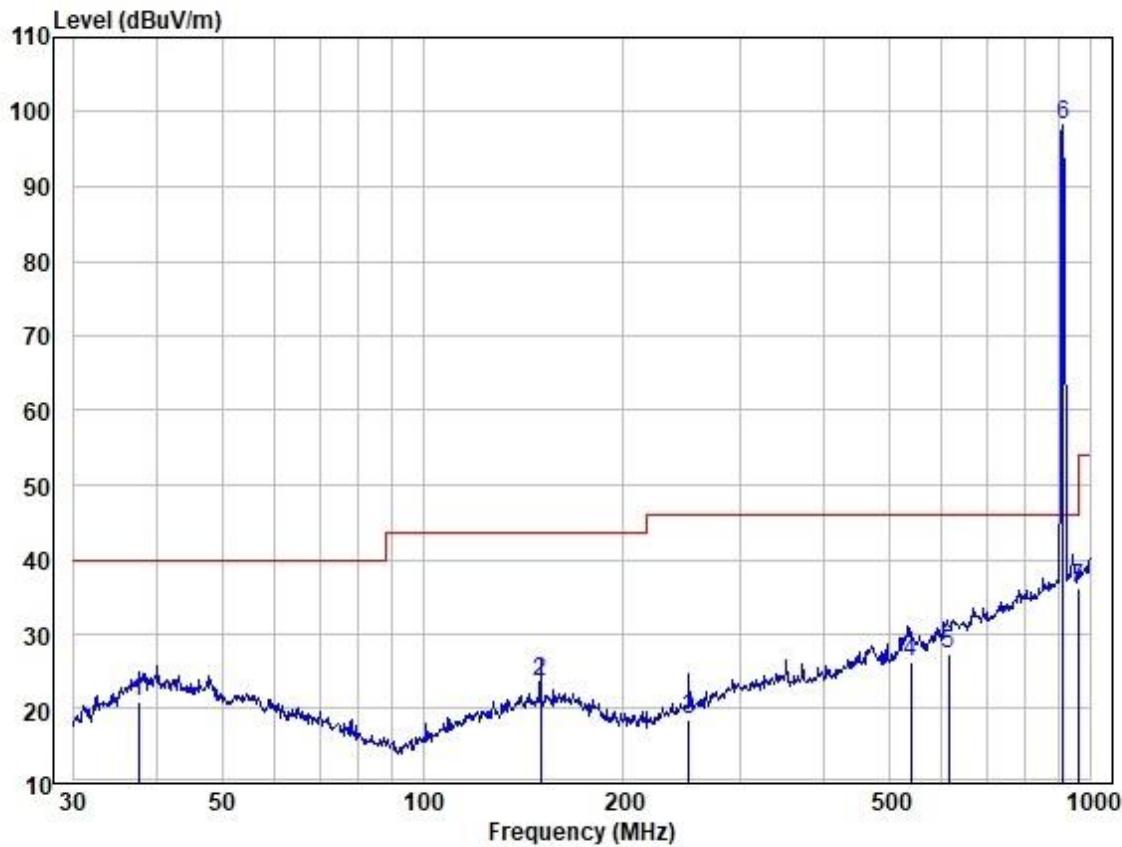
Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	49.881	34.16	19.53	0.70	33.00	21.39	40.00	-18.61	VERTICAL QP
2	60.280	34.44	18.79	0.90	33.00	21.13	40.00	-18.87	VERTICAL QP
3	150.050	40.80	19.04	1.40	33.00	28.24	43.52	-15.28	VERTICAL QP
4	572.614	36.99	25.07	3.19	33.37	31.88	46.02	-14.14	VERTICAL QP
5	614.000	26.91	25.92	3.25	33.39	22.69	46.02	-23.33	VERTICAL QP
6	915.667	97.08	29.52	4.23	32.19	98.64	46.02	52.62	VERTICAL QP
7	960.000	32.81	29.74	4.10	31.64	35.01	46.02	-11.01	VERTICAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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Test Mode: 00; Polarity: Horizontal; Bandwidth:2MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : MID

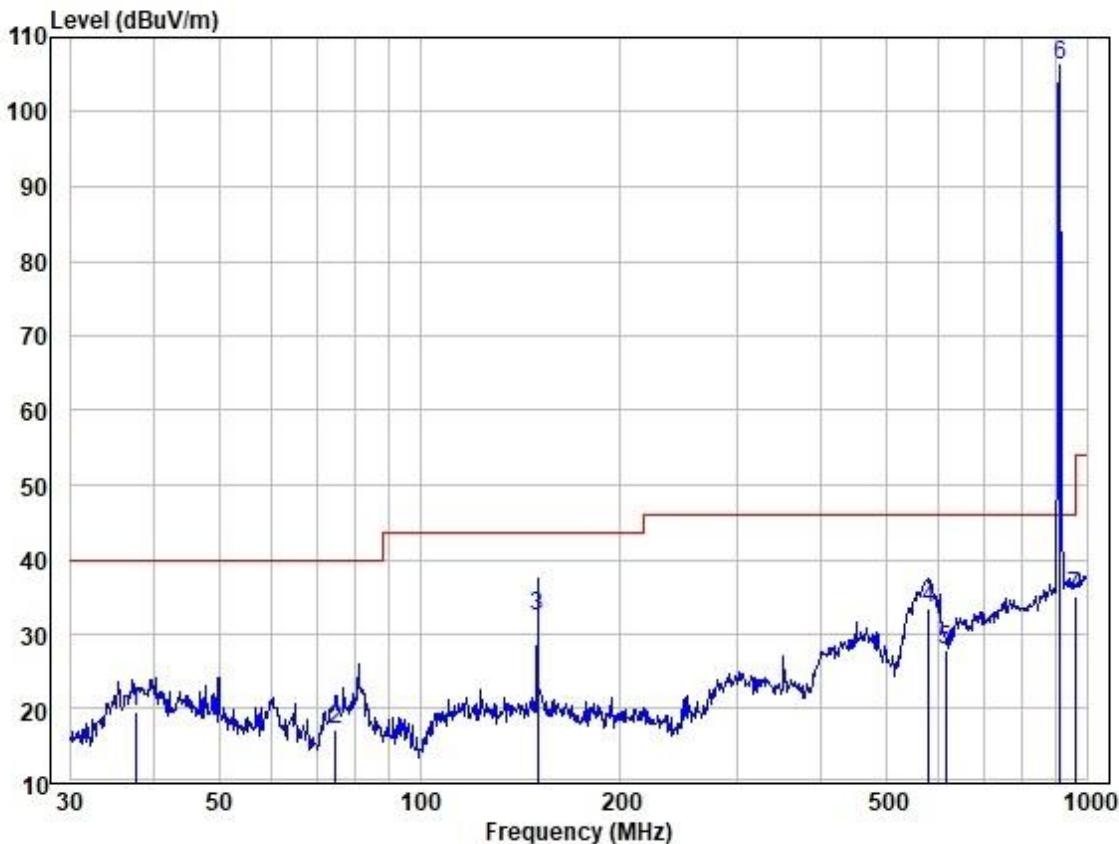
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	37.548	34.19	18.73	0.90	32.96	20.86	40.00	-19.14	HORIZONTAL QP
2	150.050	36.13	19.04	1.40	33.00	23.57	43.52	-19.95	HORIZONTAL QP
3	250.301	32.19	17.62	1.90	33.05	18.66	46.02	-27.36	HORIZONTAL QP
4	539.478	32.29	24.30	3.05	33.34	26.30	46.02	-19.72	HORIZONTAL QP
5	614.000	31.52	25.92	3.25	33.39	27.30	46.02	-18.72	HORIZONTAL QP
6	915.667	96.69	29.52	4.23	32.19	98.25	46.02	52.23	HORIZONTAL QP
7	960.000	33.81	29.74	4.10	31.64	36.01	46.02	-10.01	HORIZONTAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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Test Mode: 00; Polarity: Vertical; Bandwidth:2MHz; Channel:High



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : HIGH

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 37.500	32.98	18.73	0.90	32.96	19.65	40.00	-20.35	VERTICAL	QP
2 74.800	32.99	16.25	1.00	33.00	17.24	40.00	-22.76	VERTICAL	QP
3 150.050	45.00	19.04	1.40	33.00	32.44	43.52	-11.08	VERTICAL	QP
4 578.670	38.48	25.26	3.22	33.38	33.58	46.02	-12.44	VERTICAL	QP
5 614.000	32.12	25.92	3.25	33.39	27.90	46.02	-18.12	VERTICAL	QP
6 925.667	104.63	29.52	4.23	32.19	106.19	46.02	60.17	VERTICAL	QP
7 960.000	32.81	29.74	4.10	31.64	35.01	46.02	-11.01	VERTICAL	QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

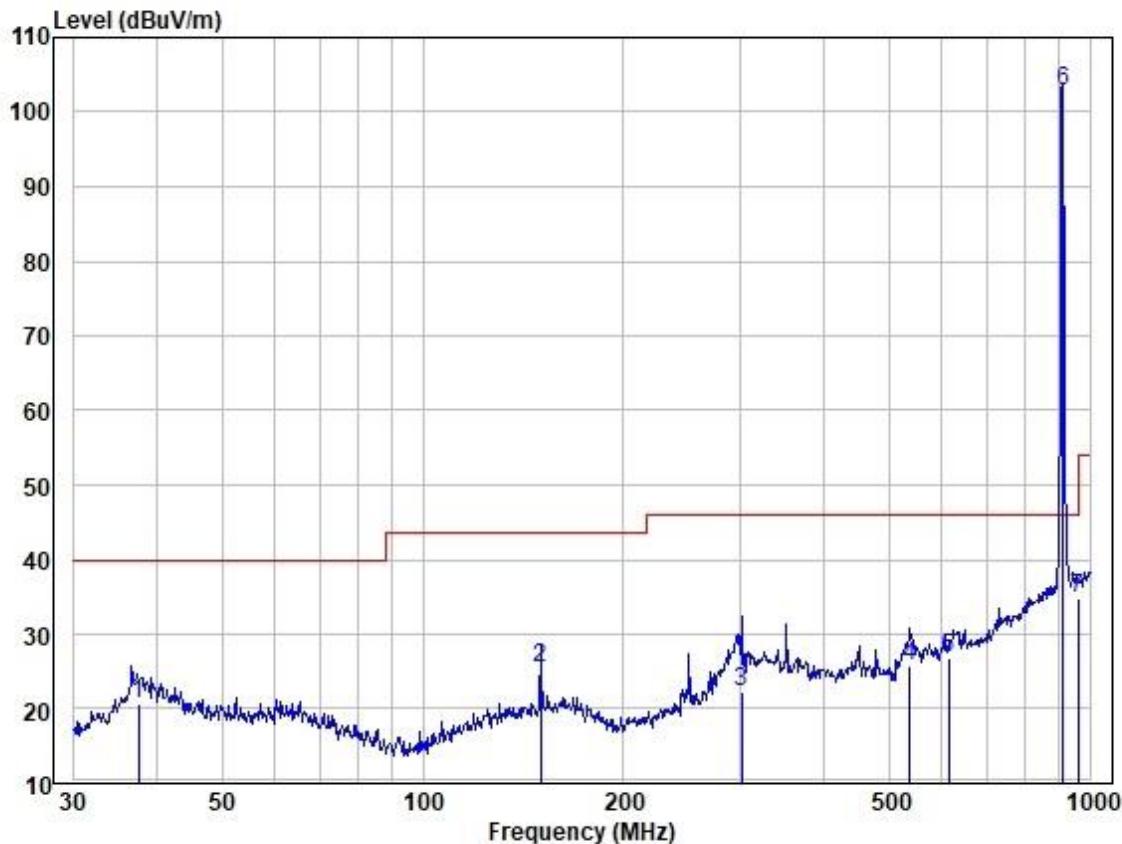
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Guangzhou Regional Technical Services Co.,Ltd. SGS-C Laboratory

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sbschina@sbs.com

Test Mode: 00; Polarity: Horizontal; Bandwidth:2MHz; Channel:High



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : HIGH

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	37.500	34.09	18.73	0.90	32.96	20.76	40.00	-19.24	HORIZONTAL QP
2	150.050	38.16	19.04	1.40	33.00	25.60	43.52	-17.92	HORIZONTAL QP
3	300.367	33.94	19.26	2.20	33.10	22.30	46.02	-23.72	HORIZONTAL QP
4	537.589	31.78	24.29	3.04	33.34	25.77	46.02	-20.25	HORIZONTAL QP
5	614.000	30.99	25.92	3.25	33.39	26.77	46.02	-19.25	HORIZONTAL QP
6	925.667	101.28	29.52	4.23	32.19	102.84	46.02	56.82	HORIZONTAL QP
7	960.000	32.61	29.74	4.10	31.64	34.81	46.02	-11.21	HORIZONTAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

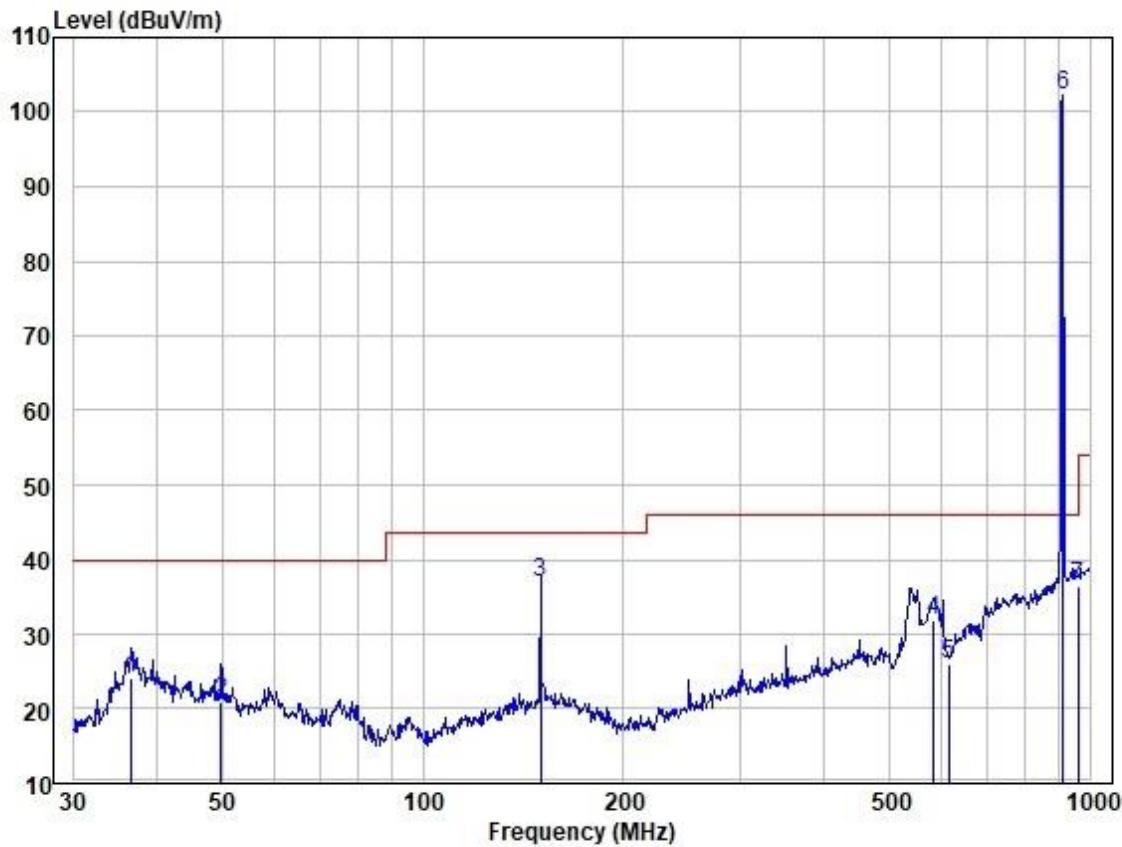
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Test Mode: 00; Polarity: Vertical; Bandwidth:4MHz; Channel:Low



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	36.637	37.84	18.59	0.70	32.96	24.17	40.00	-15.83	VERTICAL QP
2	49.881	33.64	19.53	0.70	33.00	20.87	40.00	-19.13	VERTICAL QP
3	150.050	49.56	19.04	1.40	33.00	37.00	43.52	-6.52	VERTICAL QP
4	582.743	36.65	25.31	3.23	33.38	31.81	46.02	-14.21	VERTICAL QP
5	614.000	30.21	25.92	3.25	33.39	25.99	46.02	-20.03	VERTICAL QP
6	906.667	100.79	29.52	4.23	32.19	102.35	46.02	56.33	VERTICAL QP
7	960.000	34.20	29.74	4.10	31.64	36.40	46.02	-9.62	VERTICAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

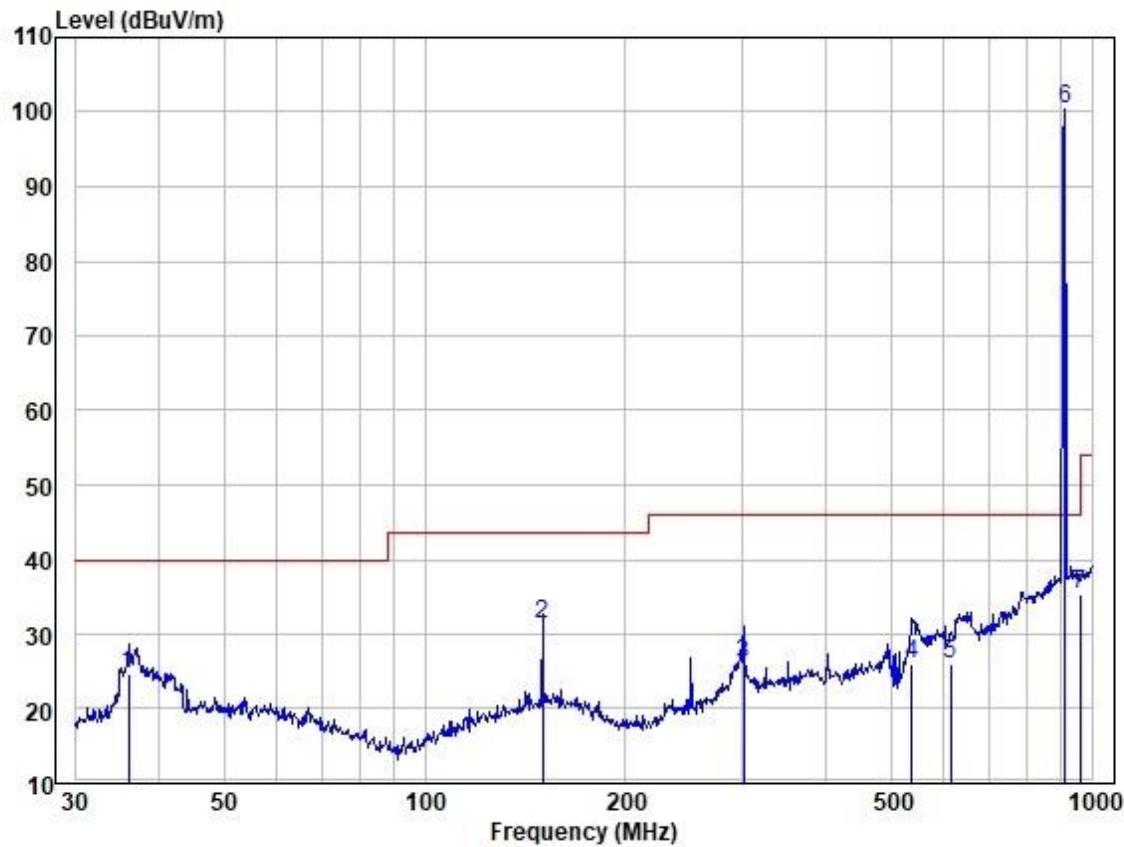
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Test Mode: 00; Polarity: Horizontal; Bandwidth:4MHz; Channel:Low



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 36.001	38.50	18.39	0.70	32.95	24.64	40.00	-15.36	HORIZONTAL	QP
2 150.050	44.00	19.04	1.40	33.00	31.44	43.52	-12.08	HORIZONTAL	QP
3 300.367	37.73	19.26	2.20	33.10	26.09	46.02	-19.93	HORIZONTAL	QP
4 537.589	32.01	24.29	3.04	33.34	26.00	46.02	-20.02	HORIZONTAL	QP
5 614.000	30.31	25.92	3.25	33.39	26.09	46.02	-19.93	HORIZONTAL	QP
6 906.667	98.89	29.52	4.23	32.19	100.45	46.02	54.43	HORIZONTAL	QP
7 960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	HORIZONTAL	QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

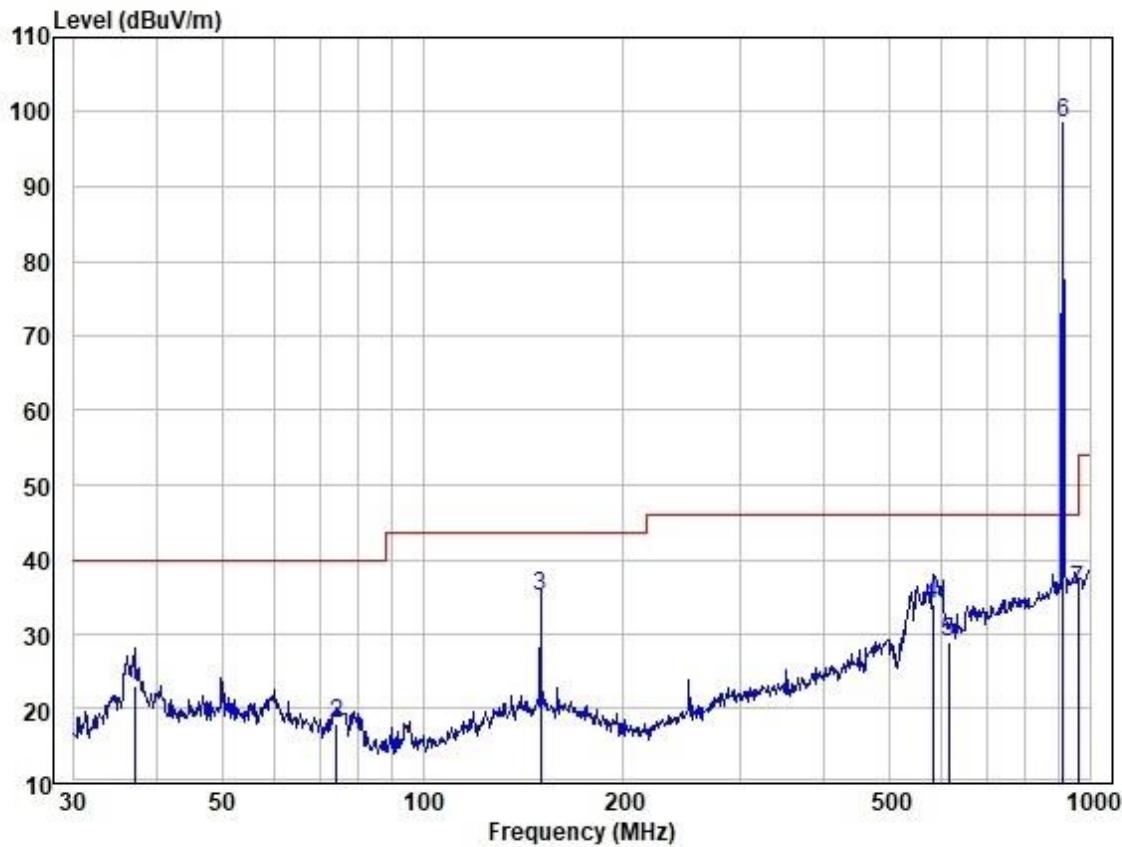
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Test Mode: 00; Polarity: Vertical; Bandwidth:4MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 37.025	36.83	18.59	0.70	32.96	23.16	40.00	-16.84	VERTICAL	QP
2 74.396	33.77	16.25	1.00	33.00	18.02	40.00	-21.98	VERTICAL	QP
3 150.050	47.75	19.04	1.40	33.00	35.19	43.52	-8.33	VERTICAL	QP
4 580.703	38.81	25.30	3.22	33.38	33.95	46.02	-12.07	VERTICAL	QP
5 614.000	33.21	25.92	3.25	33.39	28.99	46.02	-17.03	VERTICAL	QP
6 914.667	96.87	29.52	4.23	32.19	98.43	46.02	52.41	VERTICAL	QP
7 960.000	33.80	29.74	4.10	31.64	36.00	46.02	-10.02	VERTICAL	QP

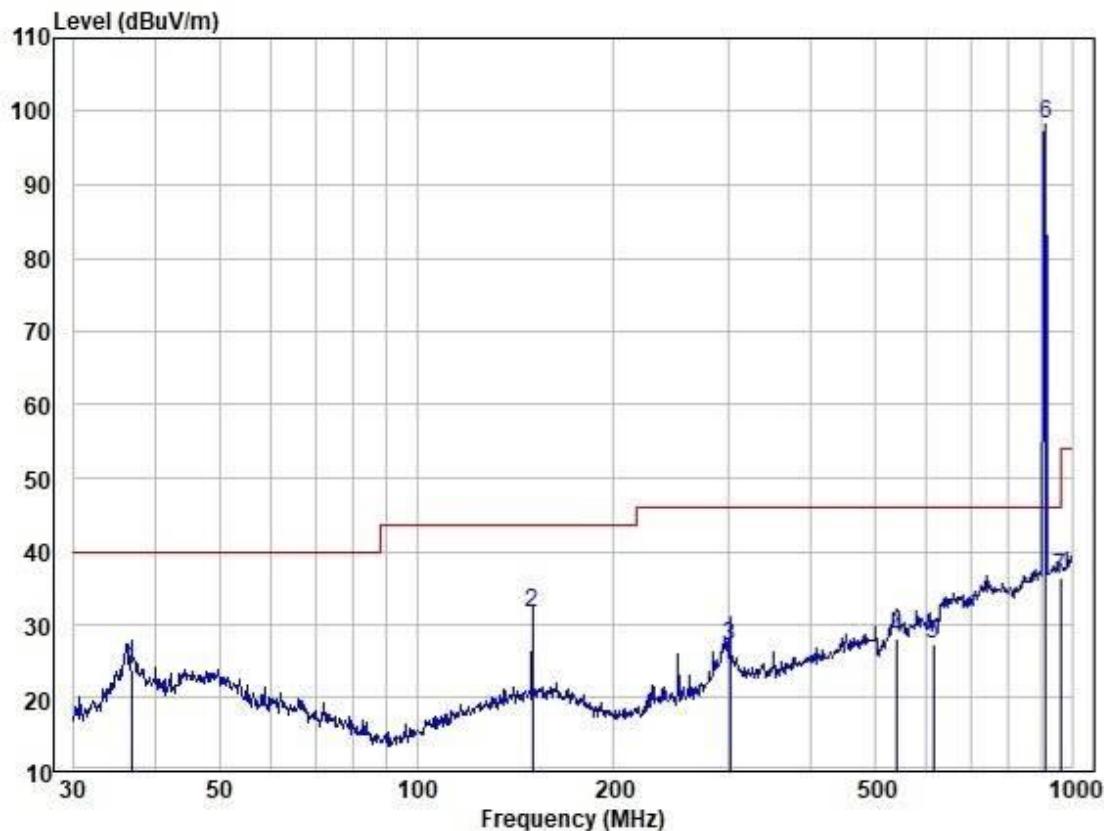
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Test Mode: 00; Polarity: Horizontal; Bandwidth:4MHz; Channel:middle



Site : 966 Chamber

Job :

Model :

Power :

Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 36.766	37.45	18.59	0.70	32.96	23.78	40.00	-16.22	HORIZONTAL	QP
2 150.050	44.21	19.04	1.40	33.00	31.65	43.52	-11.87	HORIZONTAL	QP
3 300.367	38.77	19.26	2.20	33.10	27.13	46.02	-18.89	HORIZONTAL	QP
4 541.373	34.07	24.31	3.06	33.34	28.10	46.02	-17.92	HORIZONTAL	QP
5 614.000	31.51	25.92	3.25	33.39	27.29	46.02	-18.73	HORIZONTAL	QP
6 914.667	96.75	29.52	4.23	32.19	98.31	46.02	52.29	HORIZONTAL	QP
7 960.000	34.20	29.74	4.10	31.64	36.40	46.02	-9.62	HORIZONTAL	QP

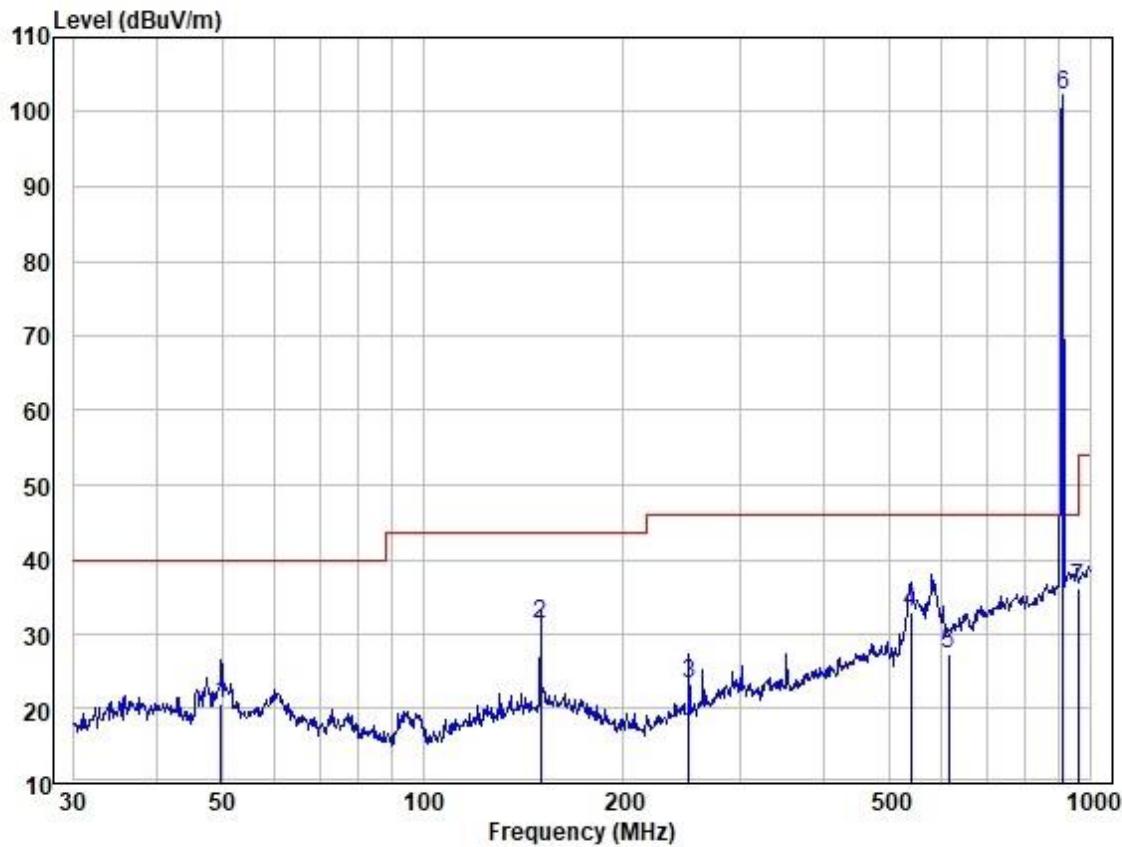
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Test Mode: 00; Polarity: Vertical; Bandwidth:4MHz; Channel:High



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	49.881	33.38	19.53	0.70	33.00	20.61	40.00	-19.39	VERTICAL QP
2	150.050	43.80	19.04	1.40	33.00	31.24	43.52	-12.28	VERTICAL QP
3	250.301	36.83	17.62	1.90	33.05	23.30	46.02	-22.72	VERTICAL QP
4	539.478	38.91	24.30	3.05	33.34	32.92	46.02	-13.10	VERTICAL QP
5	614.000	31.57	25.92	3.25	33.39	27.35	46.02	-18.67	VERTICAL QP
6	926.667	100.83	29.52	4.23	32.19	102.39	46.02	56.37	VERTICAL QP
7	960.000	33.94	29.74	4.10	31.64	36.14	46.02	-9.88	VERTICAL QP

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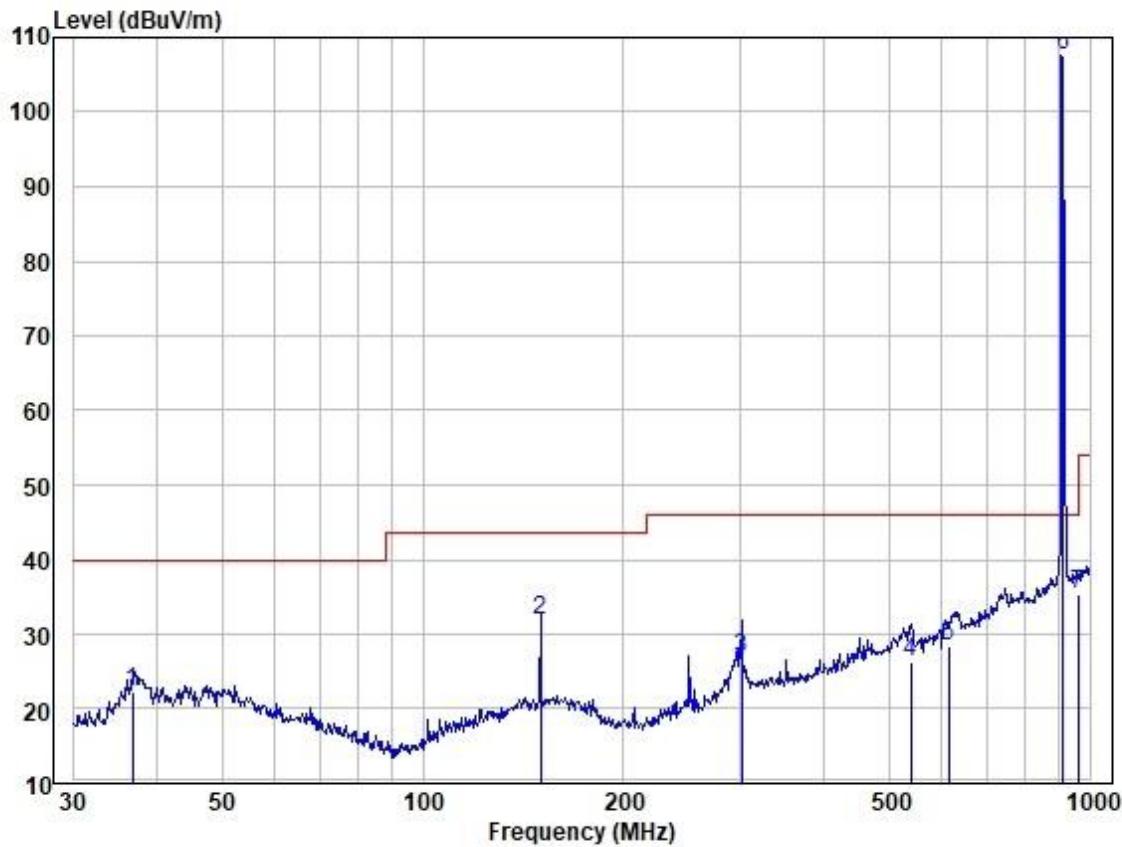
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Test Mode: 00; Polarity: Horizontal; Bandwidth:4MHz; Channel:High



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	36.766	35.81	18.59	0.70	32.96	22.14	40.00	-17.86	HORIZONTAL QP
2	150.050	44.52	19.04	1.40	33.00	31.96	43.52	-11.56	HORIZONTAL QP
3	300.367	38.41	19.26	2.20	33.10	26.77	46.02	-19.25	HORIZONTAL QP
4	539.478	32.38	24.30	3.05	33.34	26.39	46.02	-19.63	HORIZONTAL QP
5	614.000	32.51	25.92	3.25	33.39	28.29	46.02	-17.73	HORIZONTAL QP
6	926.667	106.04	29.52	4.23	32.19	107.60	46.02	61.58	HORIZONTAL QP
7	960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	HORIZONTAL QP

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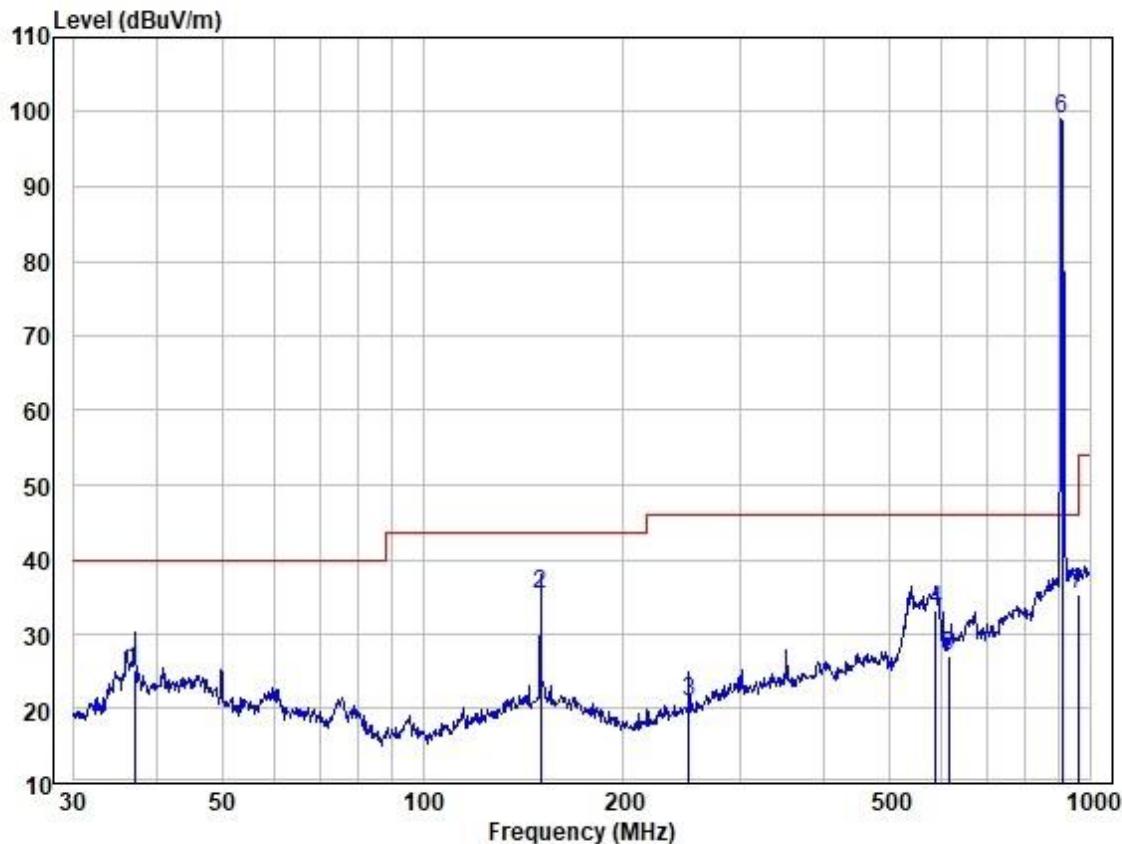
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Test Mode: 00; Polarity: Vertical; Bandwidth:8MHz; Channel:Low



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 37.025	38.92	18.59	0.70	32.96	25.25	40.00	-14.75	VERTICAL	QP
2 150.050	48.00	19.04	1.40	33.00	35.44	43.52	-8.08	VERTICAL	QP
3 250.301	34.50	17.62	1.90	33.05	20.97	46.02	-25.05	VERTICAL	QP
4 586.844	38.11	25.33	3.25	33.39	33.30	46.02	-12.72	VERTICAL	QP
5 614.000	31.41	25.92	3.25	33.39	27.19	46.02	-18.83	VERTICAL	QP
6 908.667	97.59	29.48	4.22	32.22	99.07	46.02	53.05	VERTICAL	QP
7 960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	VERTICAL	QP

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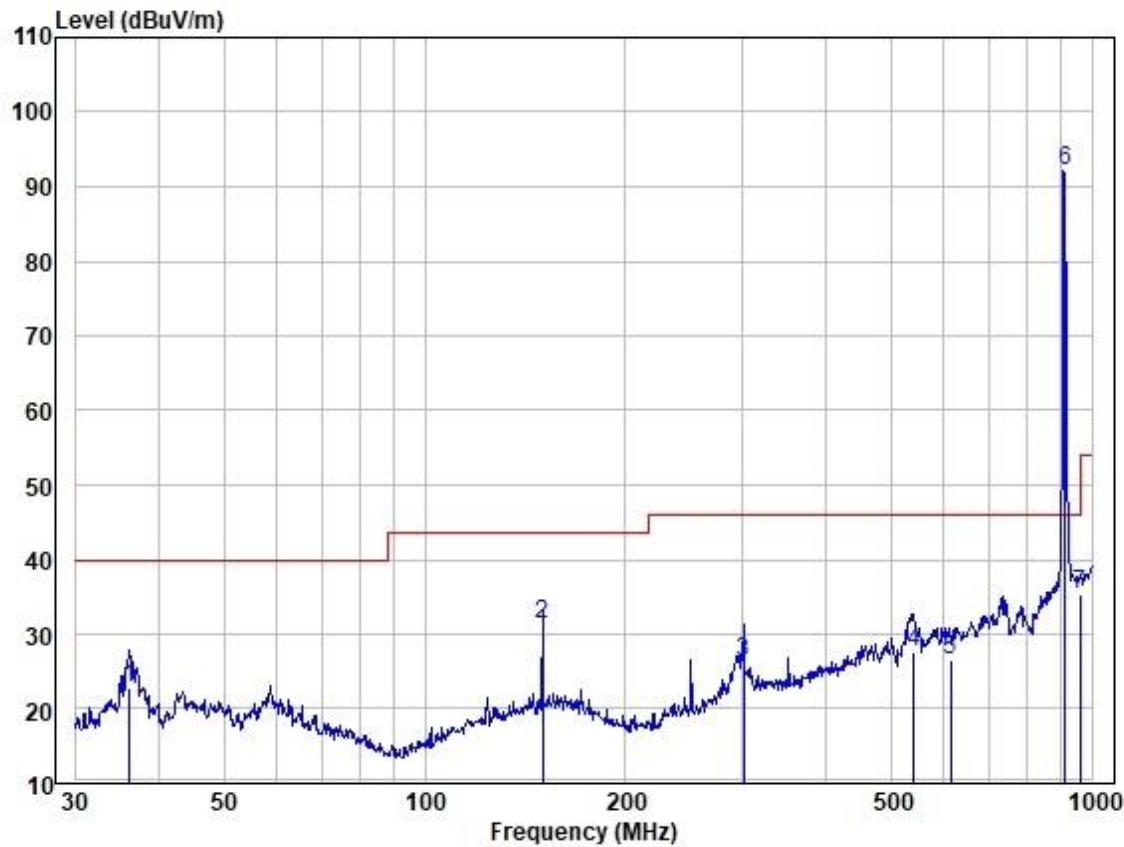
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Test Mode: 00; Polarity: Horizontal; Bandwidth:8MHz; Channel:Low



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

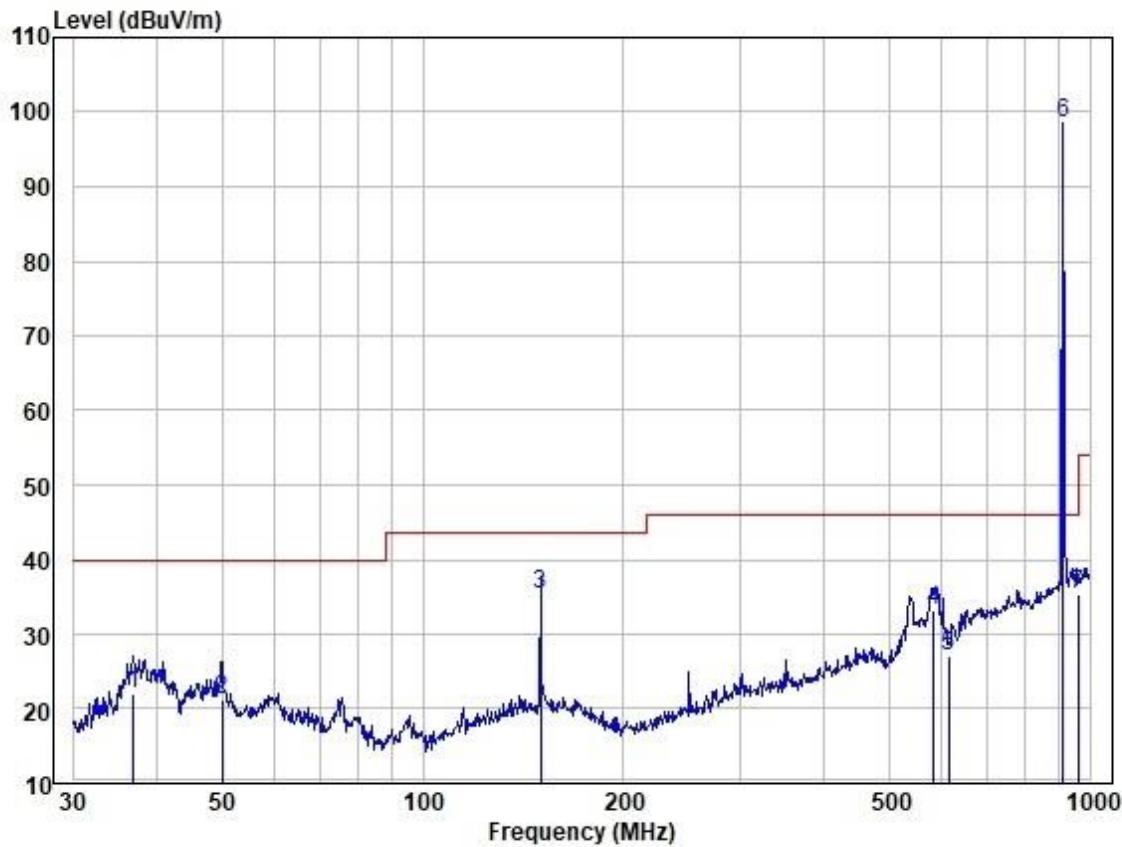
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	36.127	36.62	18.39	0.70	32.95	22.76	40.00	-17.24	HORIZONTAL QP
2	150.050	44.00	19.04	1.40	33.00	31.44	43.52	-12.08	HORIZONTAL QP
3	300.367	37.87	19.26	2.20	33.10	26.23	46.02	-19.79	HORIZONTAL QP
4	541.373	33.62	24.31	3.06	33.34	27.65	46.02	-18.37	HORIZONTAL QP
5	614.000	30.81	25.92	3.25	33.39	26.59	46.02	-19.43	HORIZONTAL QP
6	908.667	90.53	29.52	4.23	32.19	92.09	46.02	46.07	HORIZONTAL QP
7	960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	HORIZONTAL QP

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Test Mode: 00; Polarity: Vertical; Bandwidth:8MHz; Channel:middle



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode :

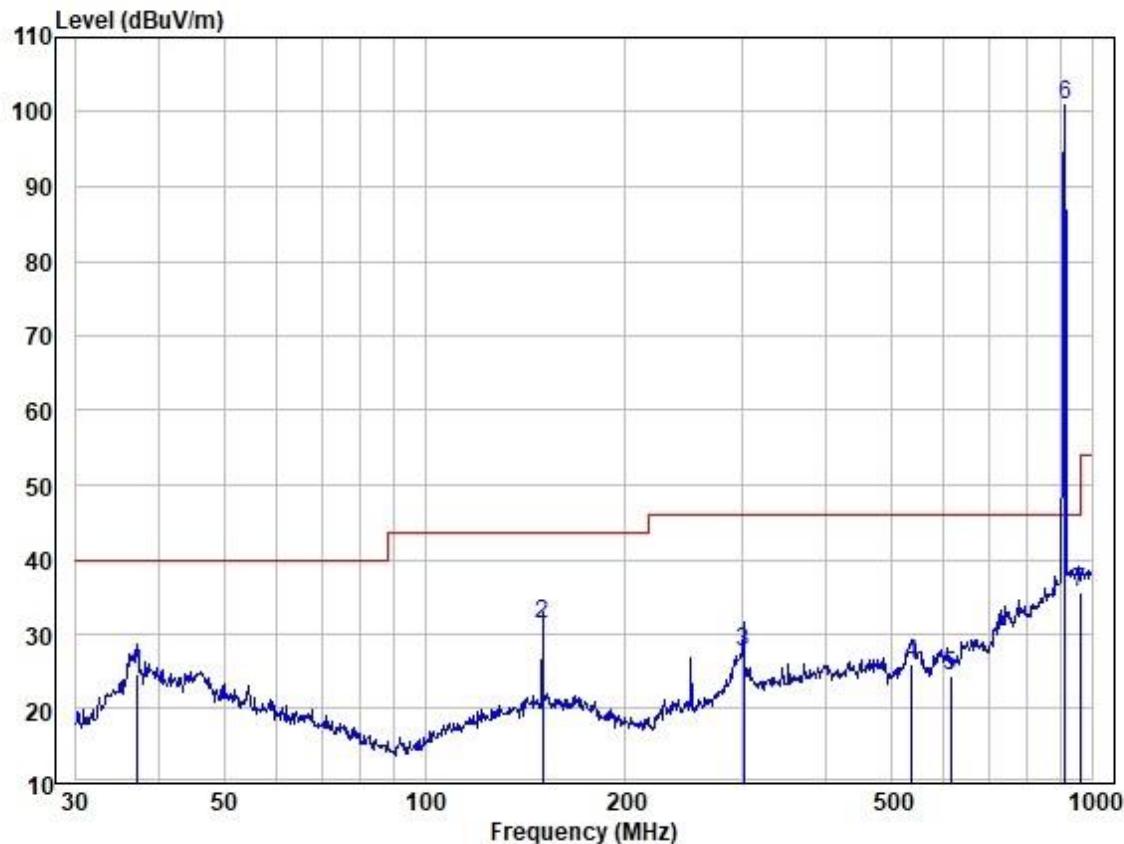
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 36.895	35.63	18.59	0.70	32.96	21.96	40.00	-18.04	VERTICAL	QP
2 50.057	34.03	19.55	0.70	33.00	21.28	40.00	-18.72	VERTICAL	QP
3 150.050	48.00	19.04	1.40	33.00	35.44	43.52	-8.08	VERTICAL	QP
4 582.743	38.09	25.31	3.23	33.38	33.25	46.02	-12.77	VERTICAL	QP
5 614.000	31.26	25.92	3.25	33.39	26.99	46.02	-19.03	VERTICAL	QP
6 916.667	97.02	29.52	4.23	32.19	98.58	46.02	52.56	VERTICAL	Peak
7 960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	VERTICAL	QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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Test Mode: 00; Polarity: Horizontal; Bandwidth:8MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	37.155	38.40	18.59	0.70	32.96	24.73	40.00	-15.27	HORIZONTAL QP
2	150.050	44.00	19.04	1.40	33.00	31.44	43.52	-12.08	HORIZONTAL QP
3	300.367	39.16	19.26	2.20	33.10	27.52	46.02	-18.50	HORIZONTAL QP
4	537.589	32.12	24.29	3.04	33.34	26.11	46.02	-19.91	HORIZONTAL QP
5	614.000	28.51	25.92	3.25	33.39	24.29	46.02	-21.73	HORIZONTAL QP
6	916.667	99.36	29.52	4.23	32.19	100.92	46.02	54.90	HORIZONTAL QP
7	960.000	33.40	29.74	4.10	31.64	35.60	46.02	-10.42	HORIZONTAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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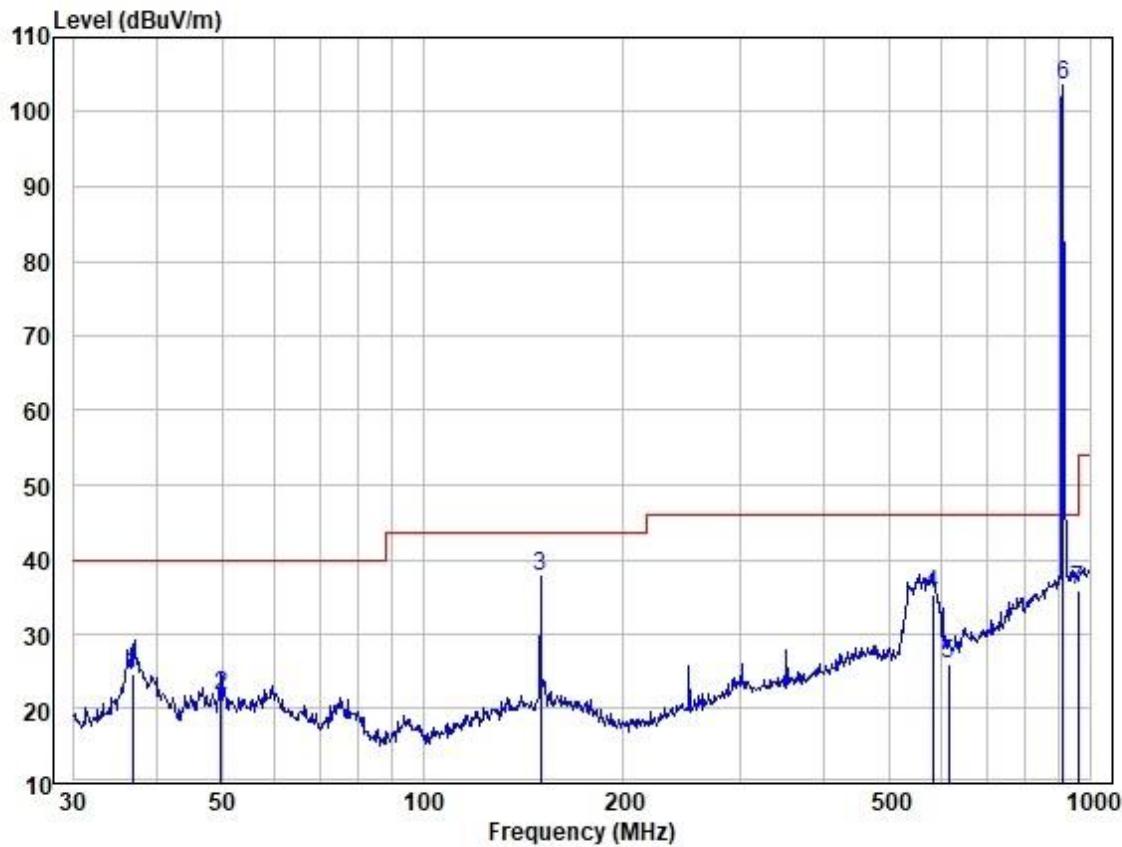
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Test Mode: 00; Polarity: Vertical; Bandwidth:8MHz; Channel:High



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

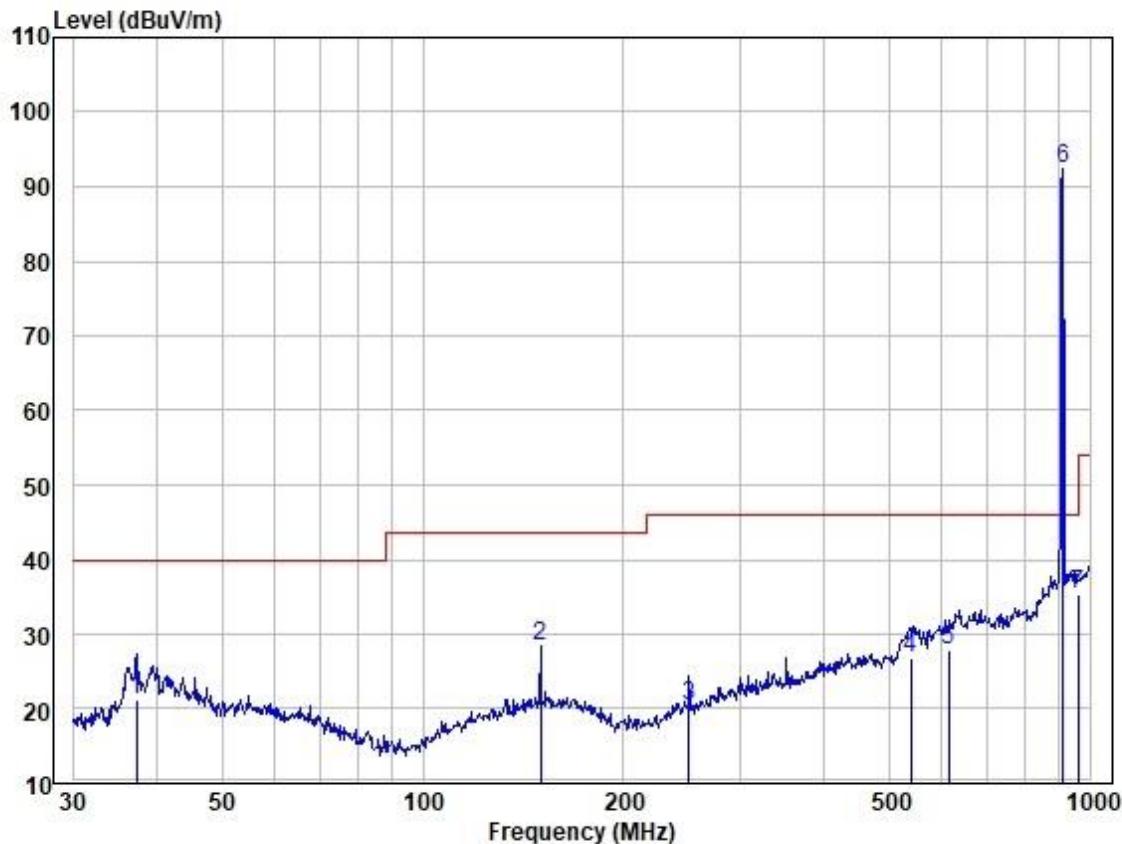
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	36.766	38.40	18.59	0.70	32.96	24.73	40.00	-15.27	VERTICAL QP
2	49.881	34.44	19.53	0.70	33.00	21.67	40.00	-18.33	VERTICAL QP
3	150.050	50.33	19.04	1.40	33.00	37.77	43.52	-5.75	VERTICAL QP
4	580.703	40.16	25.30	3.22	33.38	35.30	46.02	-10.72	VERTICAL QP
5	614.000	30.31	25.92	3.25	33.39	26.09	46.02	-19.93	VERTICAL QP
6	924.667	102.14	29.52	4.23	32.19	103.70	46.02	57.68	VERTICAL QP
7	960.000	33.60	29.74	4.10	31.64	35.80	46.02	-10.22	VERTICAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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Test Mode: 00; Polarity: Horizontal; Bandwidth:8MHz; Channel:High



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	37.285	34.62	18.73	0.90	32.96	21.29	40.00	-18.71	HORIZONTAL QP
2	150.050	40.93	19.04	1.40	33.00	28.37	43.52	-15.15	HORIZONTAL QP
3	250.301	34.03	17.62	1.90	33.05	20.50	46.02	-25.52	HORIZONTAL QP
4	539.478	32.76	24.30	3.05	33.34	26.77	46.02	-19.25	HORIZONTAL QP
5	614.000	32.21	25.92	3.25	33.39	27.99	46.02	-18.03	HORIZONTAL QP
6	924.667	90.80	29.52	4.23	32.19	92.36	46.02	46.34	HORIZONTAL QP
7	960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	HORIZONTAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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7.8 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

Test Distance: 3 m

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.8.1 E.U.T. Operation

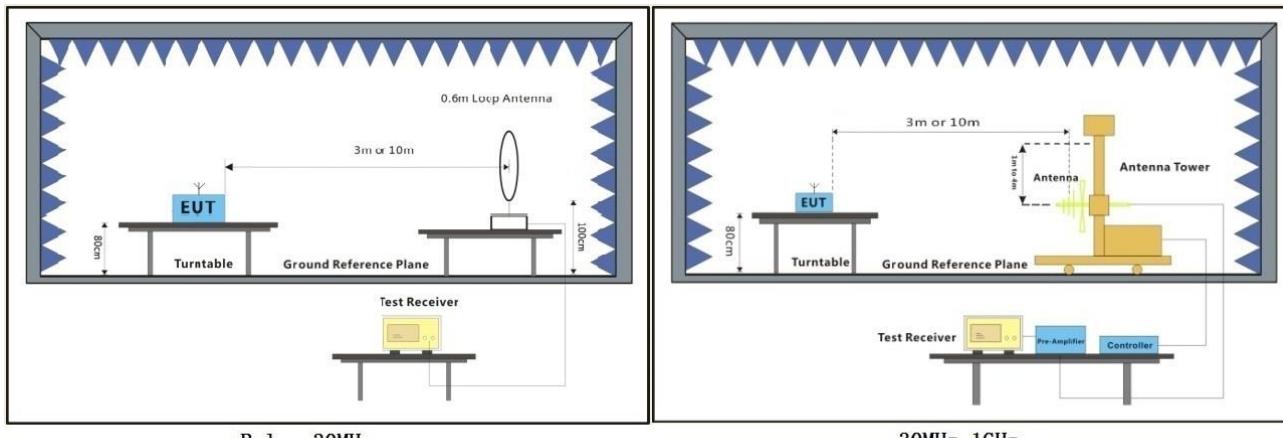
Operating Environment:

Temperature: 23.6 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Mode Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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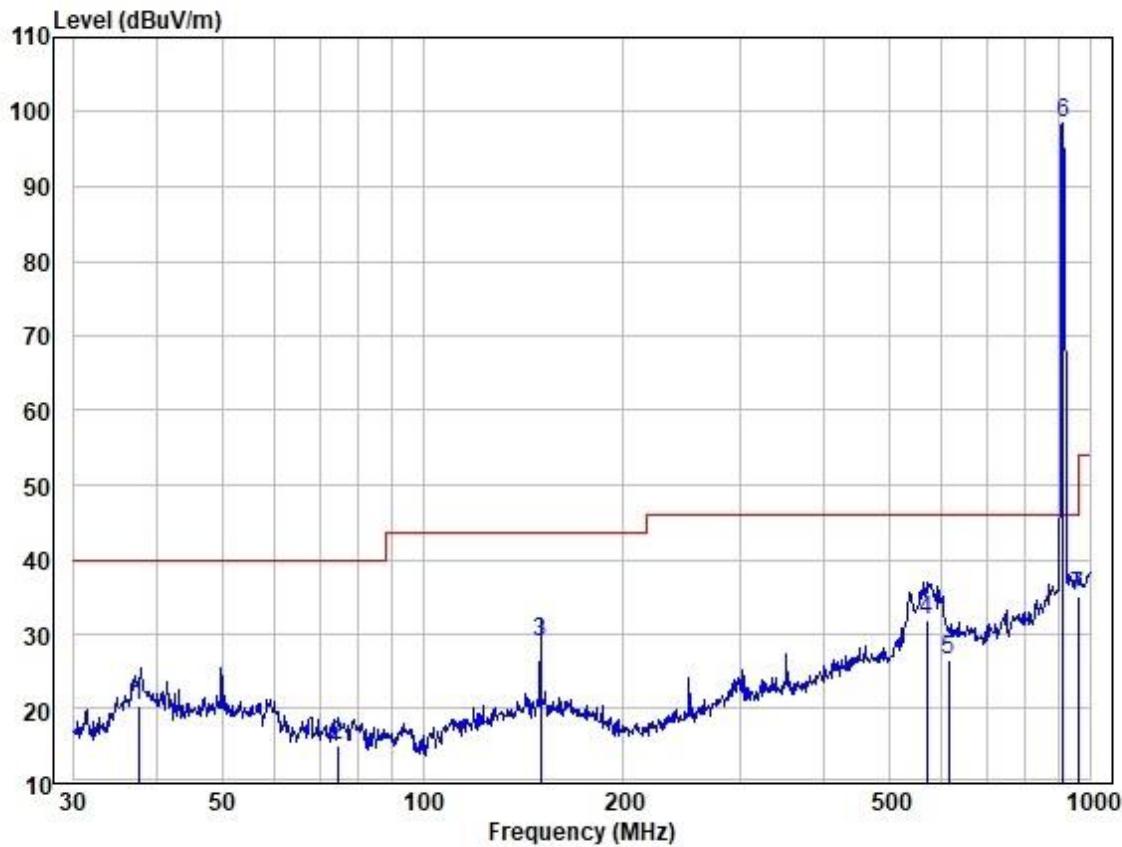
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Test Mode: 00; Polarity: Vertical; Bandwidth:2MHz; Channel:Low



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode : LOW

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	37.500	33.82	18.73	0.90	32.96	20.49	40.00	-19.51	VERTICAL QP
2	74.600	30.79	16.25	1.00	33.00	15.04	40.00	-24.96	VERTICAL QP
3	150.050	41.50	19.04	1.40	33.00	28.94	43.52	-14.58	VERTICAL QP
4	568.613	37.22	24.92	3.18	33.37	31.95	46.02	-14.07	VERTICAL QP
5	614.000	30.72	25.92	3.25	33.39	26.50	46.02	-19.52	VERTICAL QP
6	905.667	96.95	29.52	4.23	32.19	98.51	46.02	52.49	VERTICAL QP
7	960.000	32.81	29.74	4.10	31.64	35.01	46.02	-11.01	VERTICAL QP

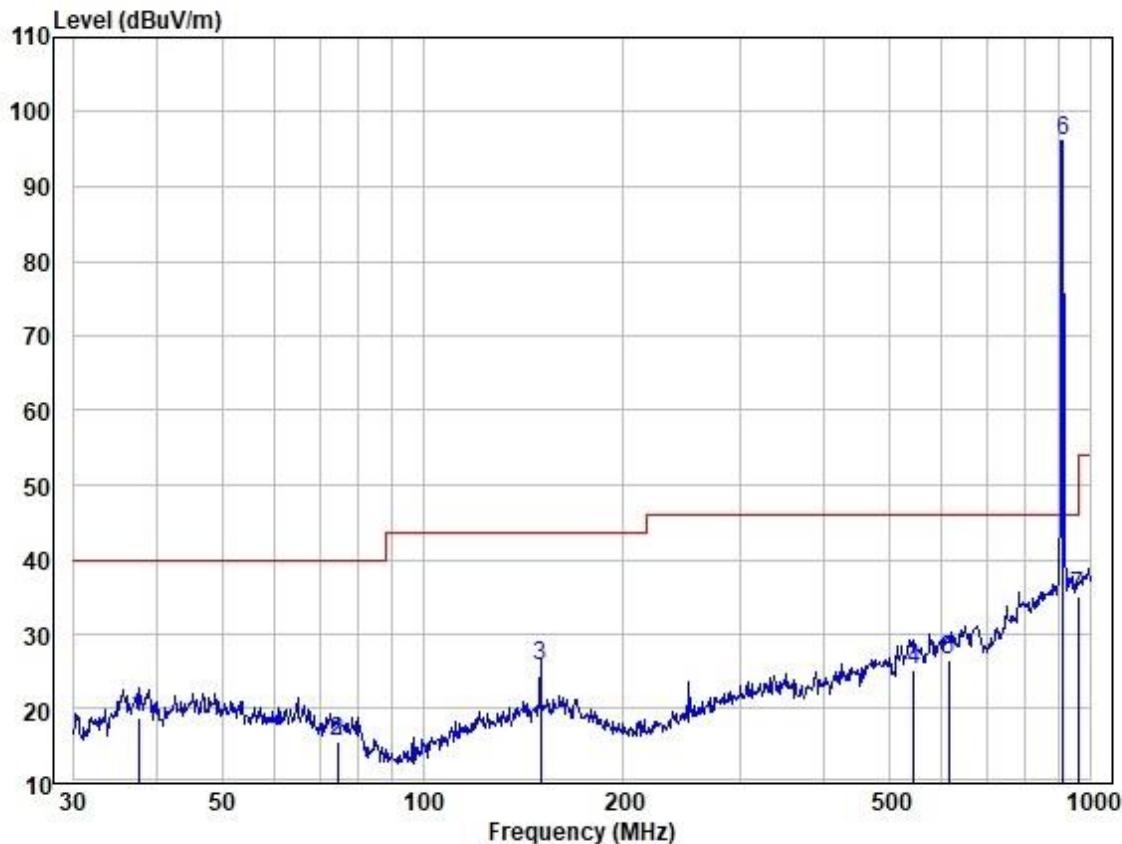
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Test Mode: 00; Polarity: Horizontal; Bandwidth:2MHz; Channel:Low



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode : LOW

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	37.500	32.10	18.73	0.90	32.96	18.77	40.00	-21.23	HORIZONTAL QP
2	74.600	31.23	16.25	1.00	33.00	15.48	40.00	-24.52	HORIZONTAL QP
3	150.050	38.21	19.04	1.40	33.00	25.65	43.52	-17.87	HORIZONTAL QP
4	545.183	31.20	24.31	3.08	33.35	25.24	46.02	-20.78	HORIZONTAL QP
5	614.000	30.82	25.92	3.25	33.39	26.60	46.02	-19.42	HORIZONTAL QP
6	905.667	94.47	29.52	4.23	32.19	96.03	46.02	50.01	HORIZONTAL QP
7	960.000	32.81	29.74	4.10	31.64	35.01	46.02	-11.01	HORIZONTAL QP

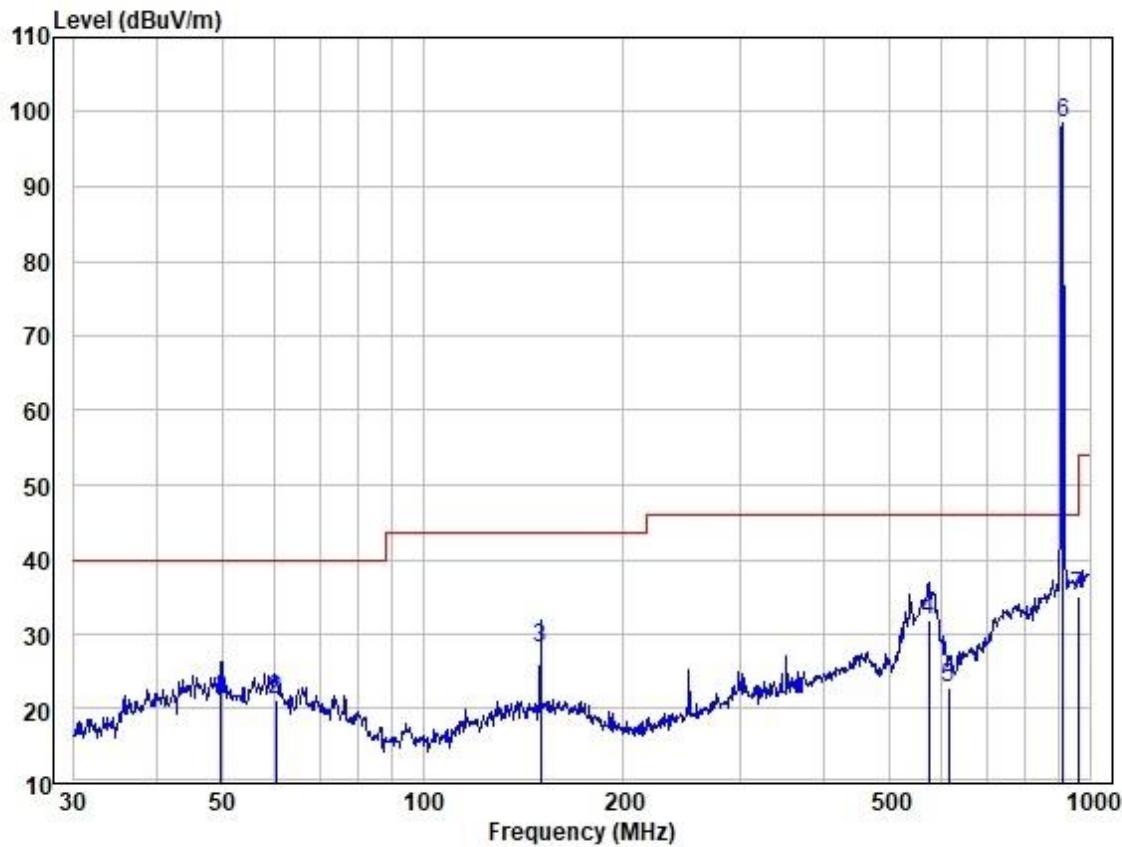
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Test Mode: 00; Polarity: Vertical; Bandwidth:2MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : MID

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	49.881	34.16	19.53	0.70	33.00	21.39	40.00	-18.61	VERTICAL QP
2	60.280	34.44	18.79	0.90	33.00	21.13	40.00	-18.87	VERTICAL QP
3	150.050	40.80	19.04	1.40	33.00	28.24	43.52	-15.28	VERTICAL QP
4	572.614	36.99	25.07	3.19	33.37	31.88	46.02	-14.14	VERTICAL QP
5	614.000	26.91	25.92	3.25	33.39	22.69	46.02	-23.33	VERTICAL QP
6	915.667	97.08	29.52	4.23	32.19	98.64	46.02	52.62	VERTICAL QP
7	960.000	32.81	29.74	4.10	31.64	35.01	46.02	-11.01	VERTICAL QP

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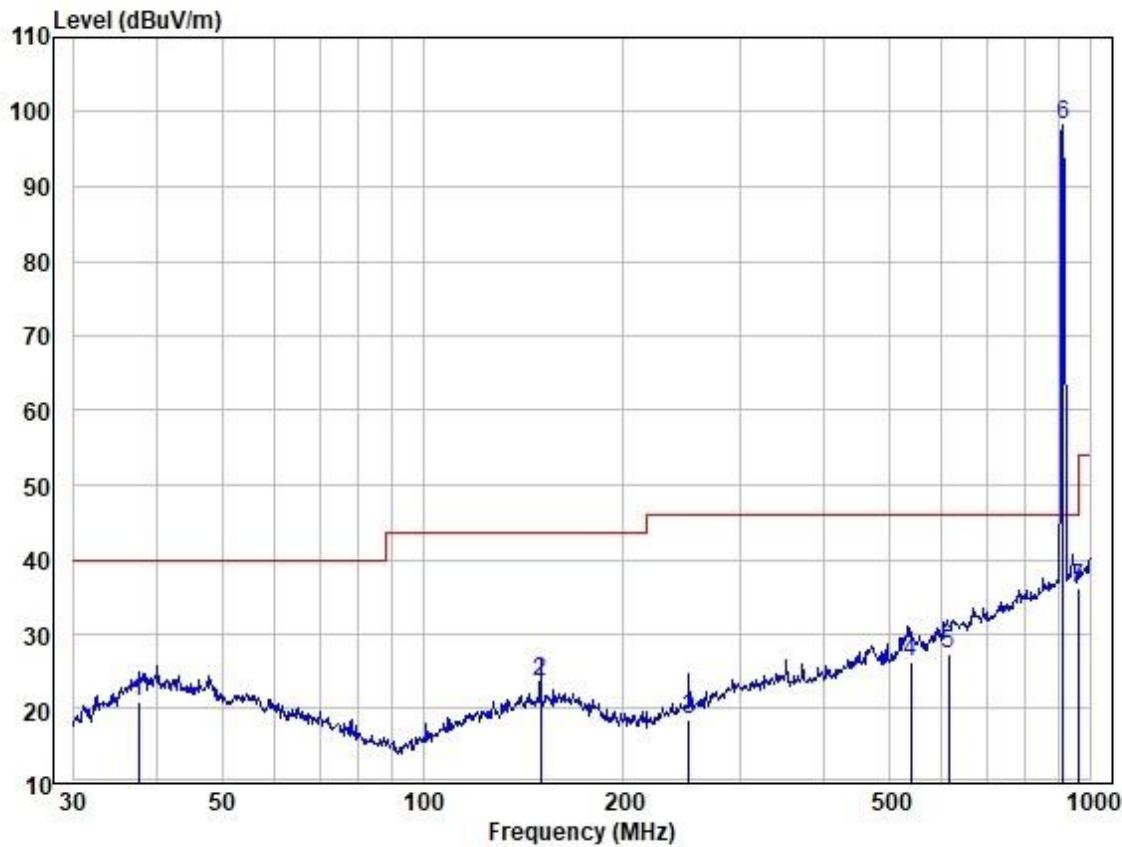


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Test Mode: 00; Polarity: Horizontal; Bandwidth:2MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : MID

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	37.548	34.19	18.73	0.90	32.96	20.86	40.00	-19.14	HORIZONTAL QP
2	150.050	36.13	19.04	1.40	33.00	23.57	43.52	-19.95	HORIZONTAL QP
3	250.301	32.19	17.62	1.90	33.05	18.66	46.02	-27.36	HORIZONTAL QP
4	539.478	32.29	24.30	3.05	33.34	26.30	46.02	-19.72	HORIZONTAL QP
5	614.000	31.52	25.92	3.25	33.39	27.30	46.02	-18.72	HORIZONTAL QP
6	915.667	96.69	29.52	4.23	32.19	98.25	46.02	52.23	HORIZONTAL QP
7	960.000	33.81	29.74	4.10	31.64	36.01	46.02	-10.01	HORIZONTAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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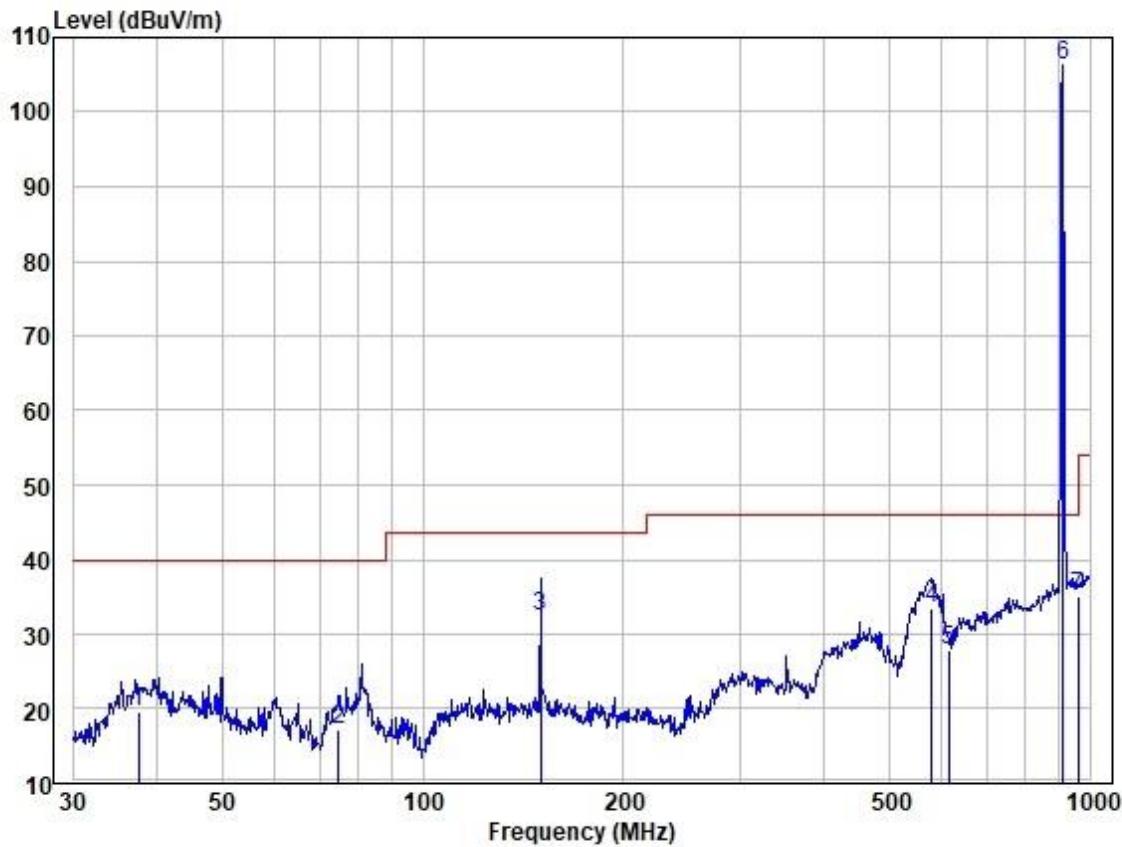
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Test Mode: 00; Polarity: Vertical; Bandwidth:2MHz; Channel:High



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode : HIGH

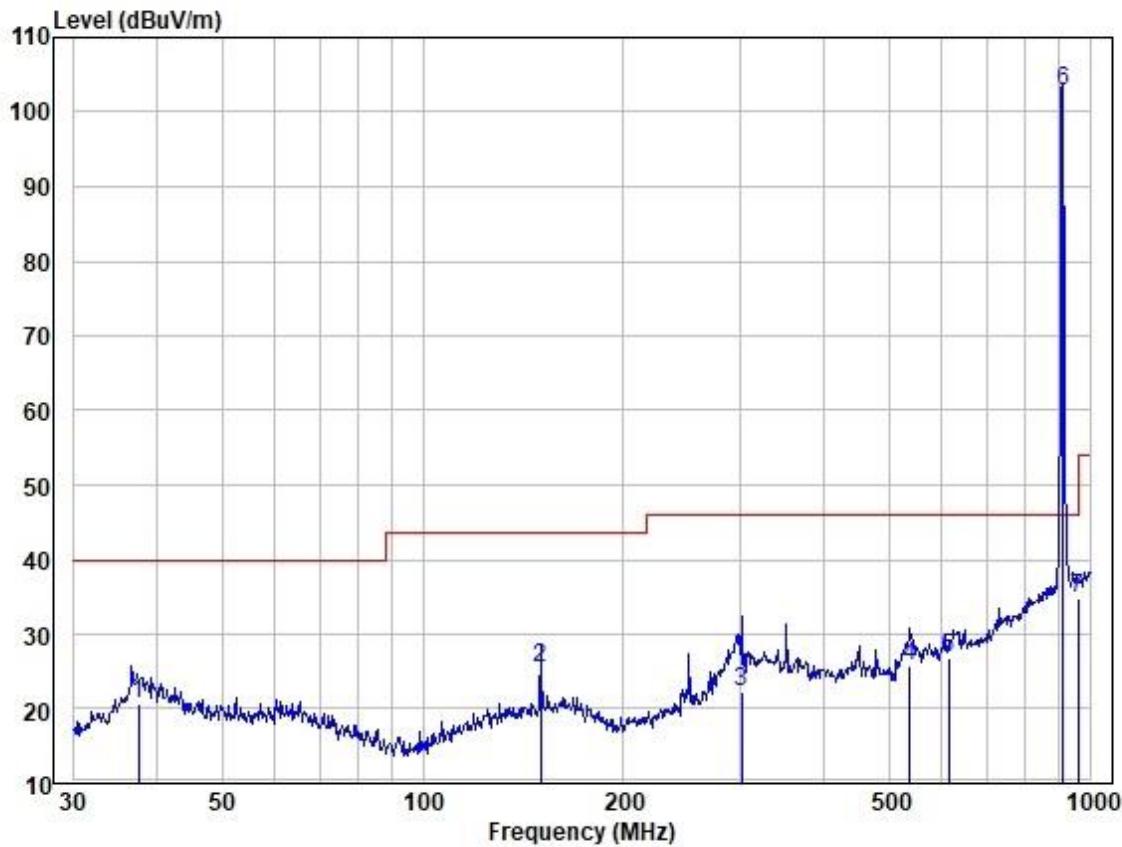
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	37.500	32.98	18.73	0.90	32.96	19.65	40.00	-20.35	VERTICAL QP
2	74.800	32.99	16.25	1.00	33.00	17.24	40.00	-22.76	VERTICAL QP
3	150.050	45.00	19.04	1.40	33.00	32.44	43.52	-11.08	VERTICAL QP
4	578.670	38.48	25.26	3.22	33.38	33.58	46.02	-12.44	VERTICAL QP
5	614.000	32.12	25.92	3.25	33.39	27.90	46.02	-18.12	VERTICAL QP
6	925.667	104.63	29.52	4.23	32.19	106.19	46.02	60.17	VERTICAL QP
7	960.000	32.81	29.74	4.10	31.64	35.01	46.02	-11.01	VERTICAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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Test Mode: 00; Polarity: Horizontal; Bandwidth:2MHz; Channel:High



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : HIGH

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 37.500	34.09	18.73	0.90	32.96	20.76	40.00	-19.24	HORIZONTAL	QP
2 150.050	38.16	19.04	1.40	33.00	25.60	43.52	-17.92	HORIZONTAL	QP
3 300.367	33.94	19.26	2.20	33.10	22.30	46.02	-23.72	HORIZONTAL	QP
4 537.589	31.78	24.29	3.04	33.34	25.77	46.02	-20.25	HORIZONTAL	QP
5 614.000	30.99	25.92	3.25	33.39	26.77	46.02	-19.25	HORIZONTAL	QP
6 925.667	101.28	29.52	4.23	32.19	102.84	46.02	56.82	HORIZONTAL	QP
7 960.000	32.61	29.74	4.10	31.64	34.81	46.02	-11.21	HORIZONTAL	QP

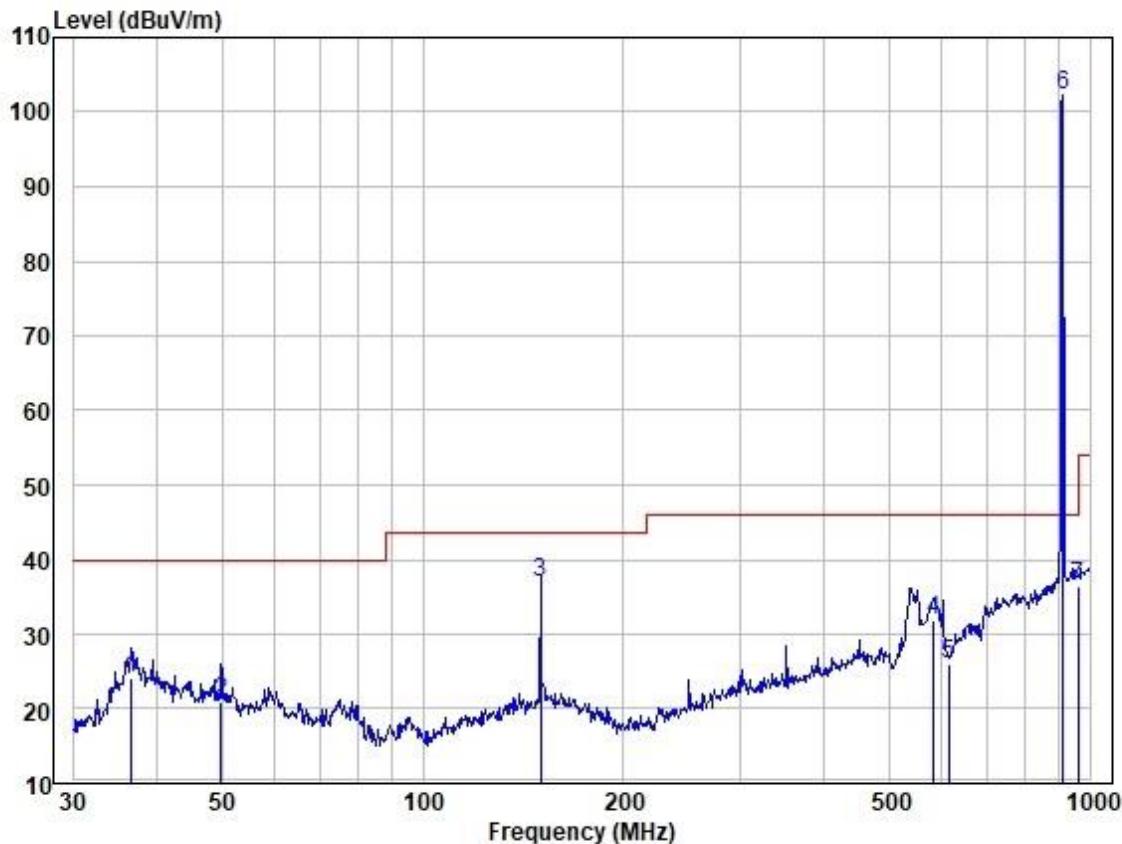
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Test Mode: 00; Polarity: Vertical; Bandwidth:4MHz; Channel:Low



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	36.637	37.84	18.59	0.70	32.96	24.17	40.00	-15.83	VERTICAL QP
2	49.881	33.64	19.53	0.70	33.00	20.87	40.00	-19.13	VERTICAL QP
3	150.050	49.56	19.04	1.40	33.00	37.00	43.52	-6.52	VERTICAL QP
4	582.743	36.65	25.31	3.23	33.38	31.81	46.02	-14.21	VERTICAL QP
5	614.000	30.21	25.92	3.25	33.39	25.99	46.02	-20.03	VERTICAL QP
6	906.667	100.79	29.52	4.23	32.19	102.35	46.02	56.33	VERTICAL QP
7	960.000	34.20	29.74	4.10	31.64	36.40	46.02	-9.62	VERTICAL QP

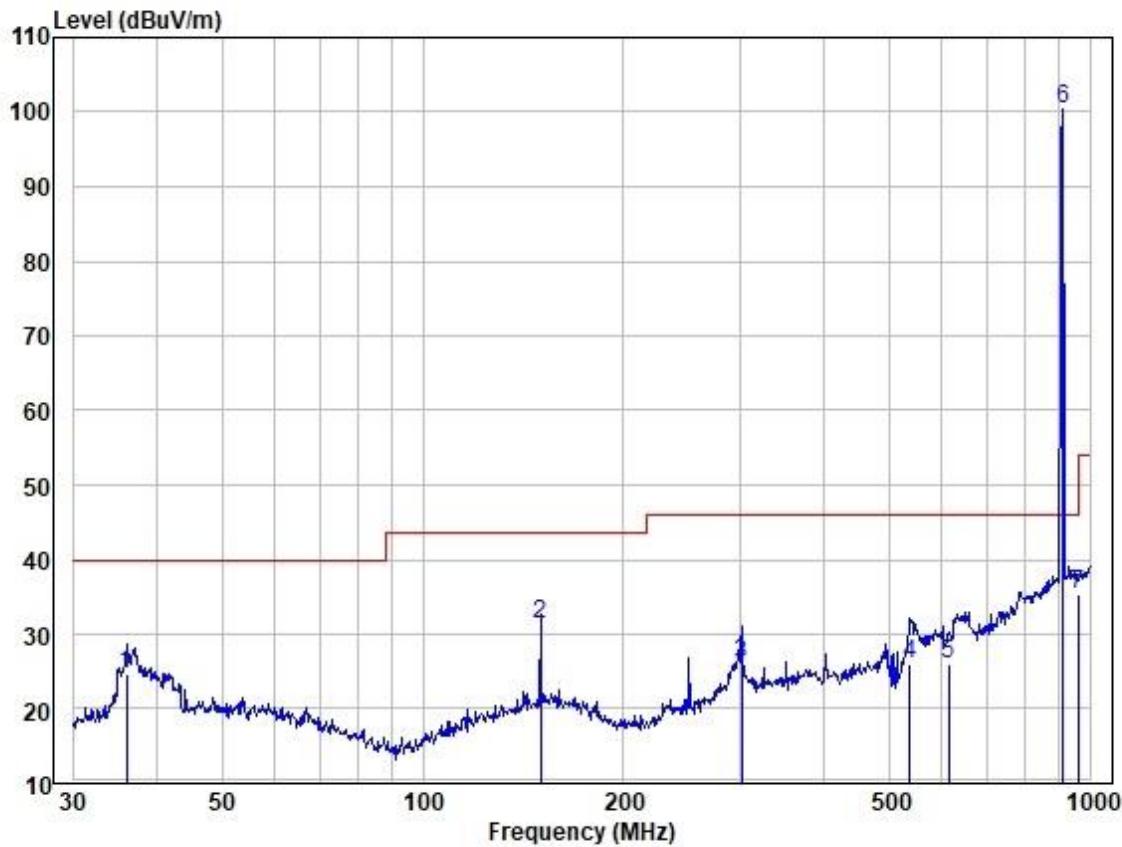
*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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Test Mode: 00; Polarity: Horizontal; Bandwidth:4MHz; Channel:Low



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 36.001	38.50	18.39	0.70	32.95	24.64	40.00	-15.36	HORIZONTAL	QP
2 150.050	44.00	19.04	1.40	33.00	31.44	43.52	-12.08	HORIZONTAL	QP
3 300.367	37.73	19.26	2.20	33.10	26.09	46.02	-19.93	HORIZONTAL	QP
4 537.589	32.01	24.29	3.04	33.34	26.00	46.02	-20.02	HORIZONTAL	QP
5 614.000	30.31	25.92	3.25	33.39	26.09	46.02	-19.93	HORIZONTAL	QP
6 906.667	98.89	29.52	4.23	32.19	100.45	46.02	54.43	HORIZONTAL	QP
7 960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	HORIZONTAL	QP

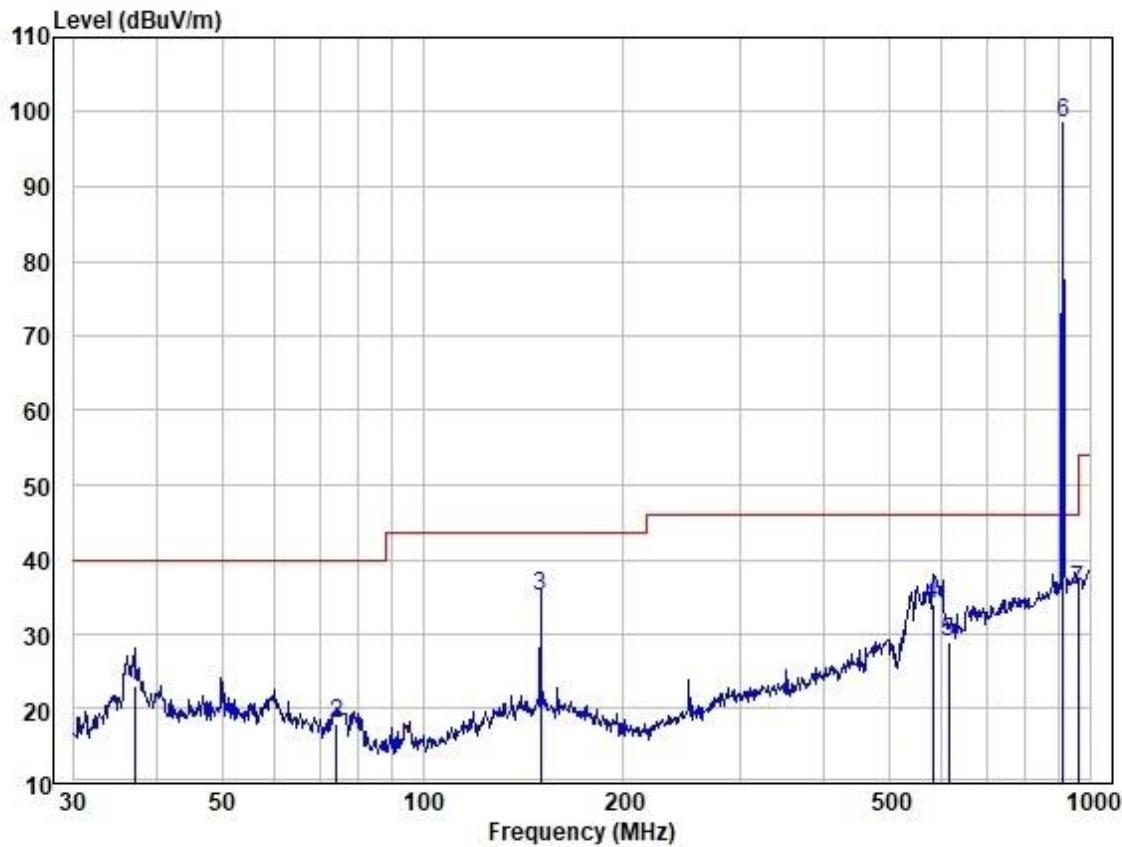
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Test Mode: 00; Polarity: Vertical; Bandwidth:4MHz; Channel:middle



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode :

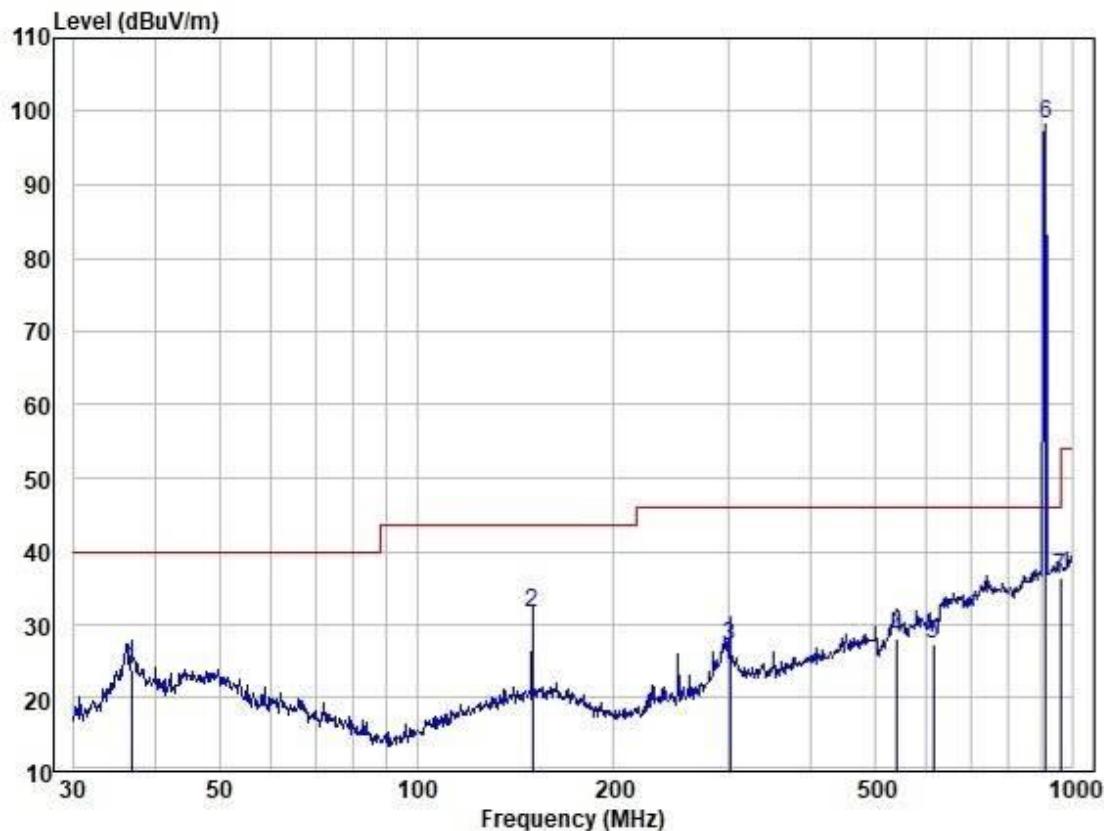
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	37.025	36.83	18.59	0.70	32.96	23.16	40.00	-16.84	VERTICAL QP
2	74.396	33.77	16.25	1.00	33.00	18.02	40.00	-21.98	VERTICAL QP
3	150.050	47.75	19.04	1.40	33.00	35.19	43.52	-8.33	VERTICAL QP
4	580.703	38.81	25.30	3.22	33.38	33.95	46.02	-12.07	VERTICAL QP
5	614.000	33.21	25.92	3.25	33.39	28.99	46.02	-17.03	VERTICAL QP
6	914.667	96.87	29.52	4.23	32.19	98.43	46.02	52.41	VERTICAL QP
7	960.000	33.80	29.74	4.10	31.64	36.00	46.02	-10.02	VERTICAL QP

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Test Mode: 00; Polarity: Horizontal; Bandwidth:4MHz; Channel:middle



Site : 966 Chamber

Job :

Model :

Power :

Test Mode :

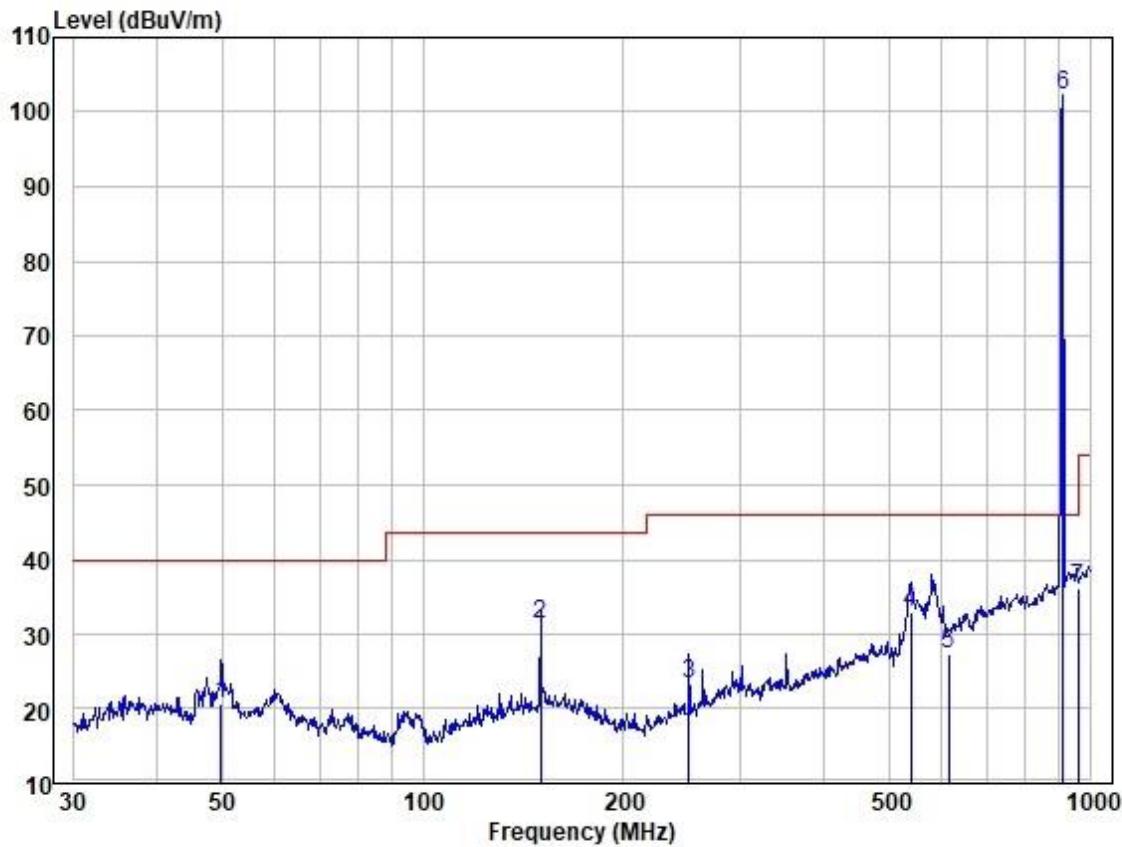
Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 36.766	37.45	18.59	0.70	32.96	23.78	40.00	-16.22	HORIZONTAL	QP
2 150.050	44.21	19.04	1.40	33.00	31.65	43.52	-11.87	HORIZONTAL	QP
3 300.367	38.77	19.26	2.20	33.10	27.13	46.02	-18.89	HORIZONTAL	QP
4 541.373	34.07	24.31	3.06	33.34	28.10	46.02	-17.92	HORIZONTAL	QP
5 614.000	31.51	25.92	3.25	33.39	27.29	46.02	-18.73	HORIZONTAL	QP
6 914.667	96.75	29.52	4.23	32.19	98.31	46.02	52.29	HORIZONTAL	QP
7 960.000	34.20	29.74	4.10	31.64	36.40	46.02	-9.62	HORIZONTAL	QP

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Test Mode: 00; Polarity: Vertical; Bandwidth:4MHz; Channel:High



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

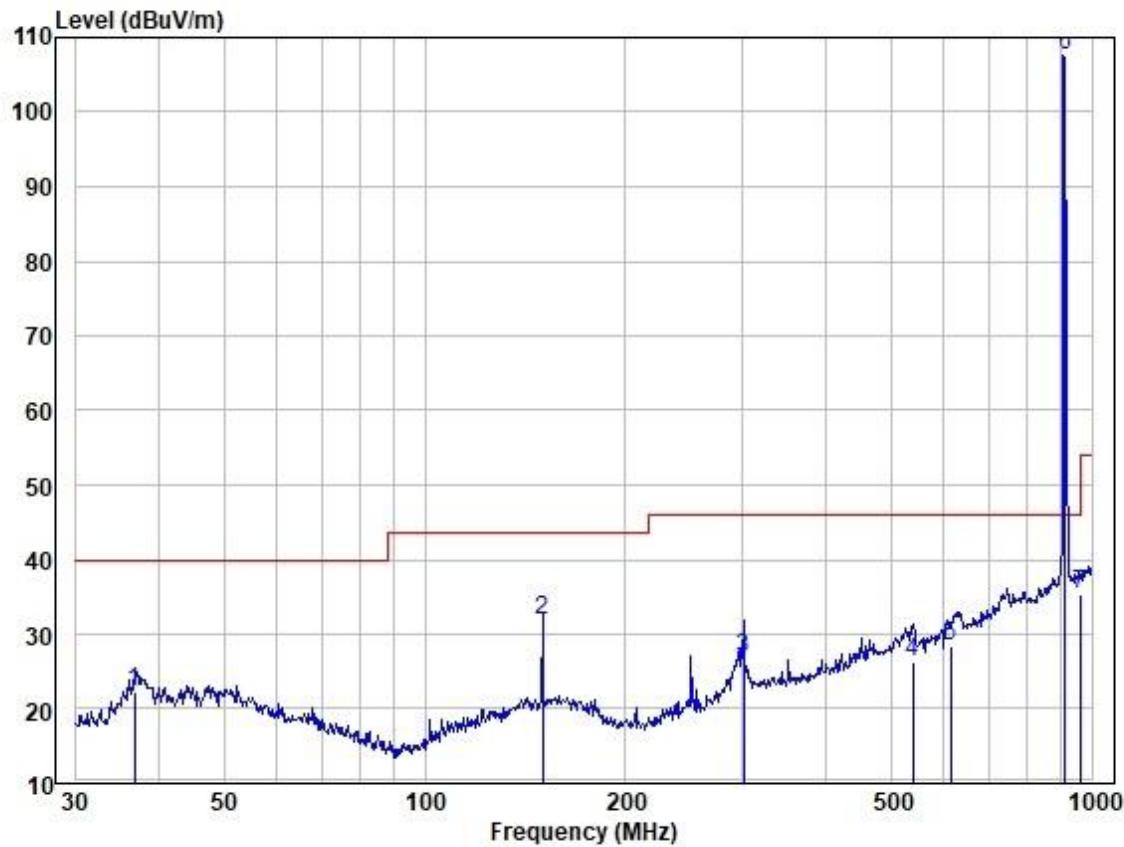
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	49.881	33.38	19.53	0.70	33.00	20.61	40.00	-19.39	VERTICAL QP
2	150.050	43.80	19.04	1.40	33.00	31.24	43.52	-12.28	VERTICAL QP
3	250.301	36.83	17.62	1.90	33.05	23.30	46.02	-22.72	VERTICAL QP
4	539.478	38.91	24.30	3.05	33.34	32.92	46.02	-13.10	VERTICAL QP
5	614.000	31.57	25.92	3.25	33.39	27.35	46.02	-18.67	VERTICAL QP
6	926.667	100.83	29.52	4.23	32.19	102.39	46.02	56.37	VERTICAL QP
7	960.000	33.94	29.74	4.10	31.64	36.14	46.02	-9.88	VERTICAL QP

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Test Mode: 00; Polarity: Horizontal; Bandwidth:4MHz; Channel:High



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	36.766	35.81	18.59	0.70	32.96	22.14	40.00	-17.86	HORIZONTAL QP
2	150.050	44.52	19.04	1.40	33.00	31.96	43.52	-11.56	HORIZONTAL QP
3	300.367	38.41	19.26	2.20	33.10	26.77	46.02	-19.25	HORIZONTAL QP
4	539.478	32.38	24.30	3.05	33.34	26.39	46.02	-19.63	HORIZONTAL QP
5	614.000	32.51	25.92	3.25	33.39	28.29	46.02	-17.73	HORIZONTAL QP
6	926.667	106.04	29.52	4.23	32.19	107.60	46.02	61.58	HORIZONTAL QP
7	960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	HORIZONTAL QP

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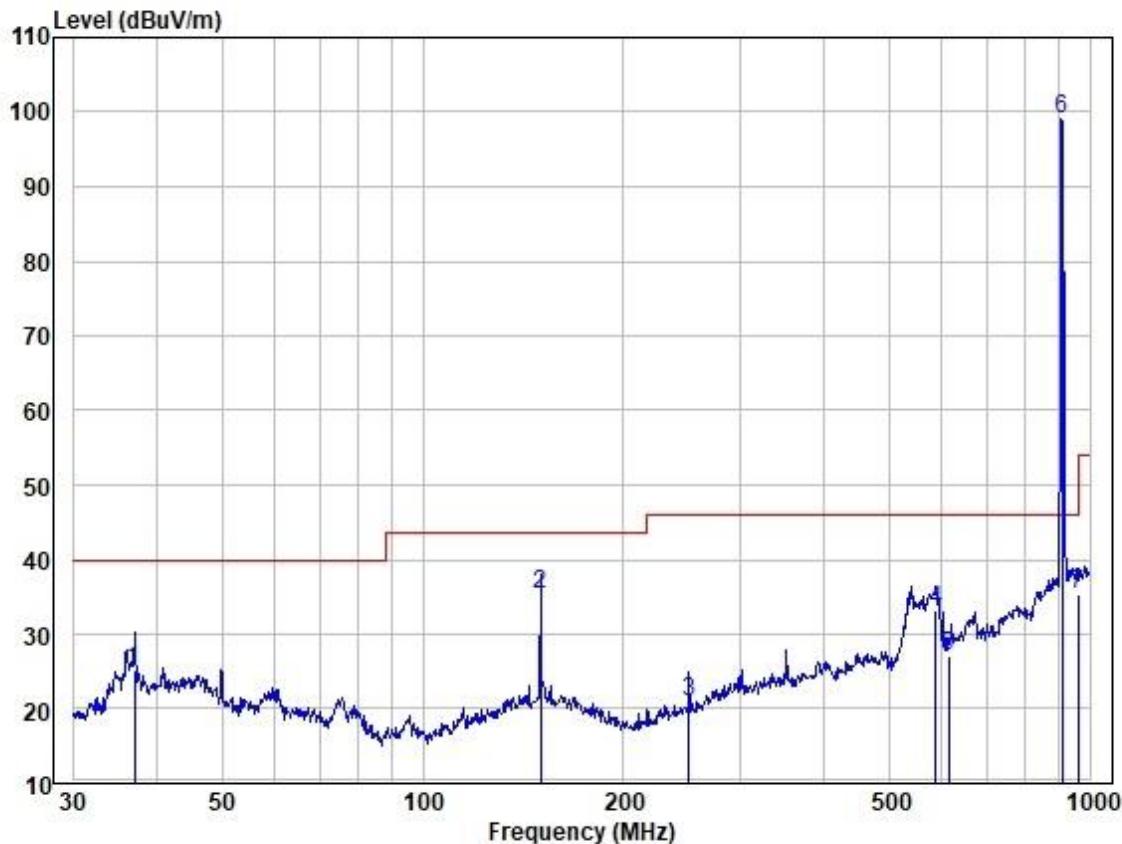
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Test Mode: 00; Polarity: Vertical; Bandwidth:8MHz; Channel:Low



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

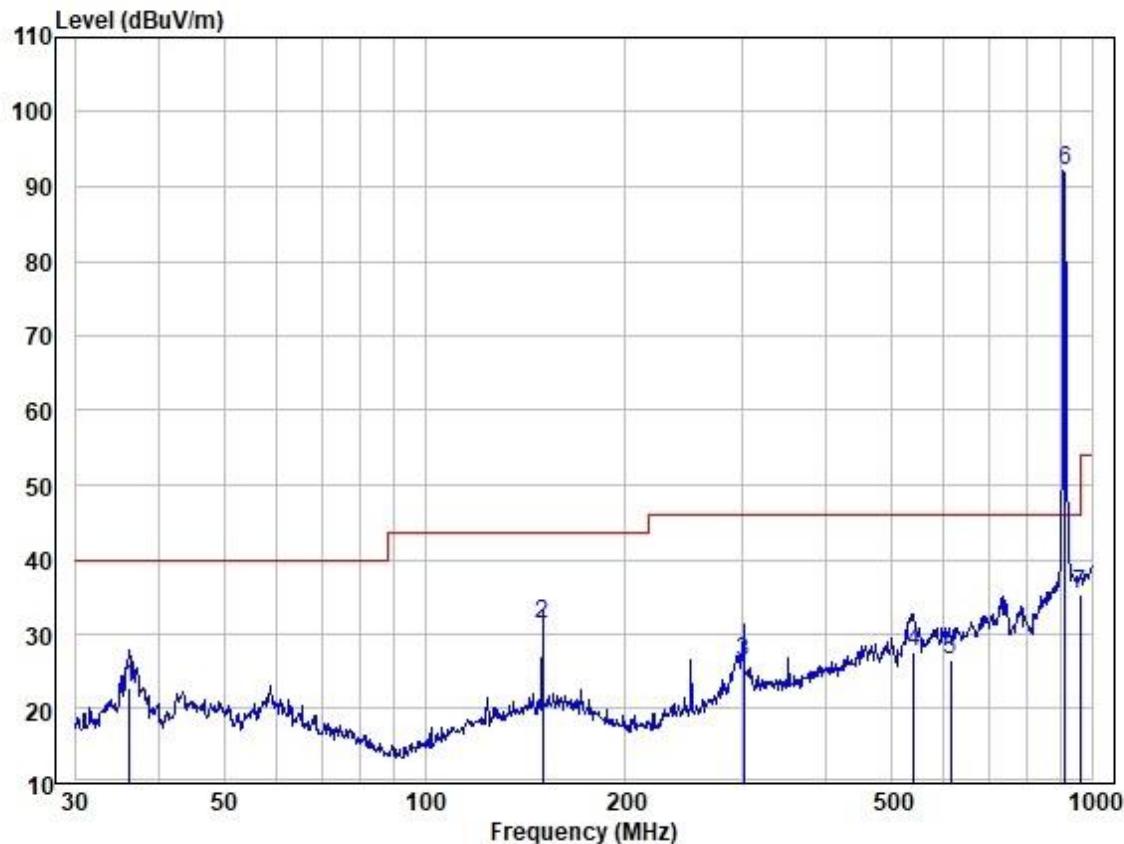
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 37.025	38.92	18.59	0.70	32.96	25.25	40.00	-14.75	VERTICAL	QP
2 150.050	48.00	19.04	1.40	33.00	35.44	43.52	-8.08	VERTICAL	QP
3 250.301	34.50	17.62	1.90	33.05	20.97	46.02	-25.05	VERTICAL	QP
4 586.844	38.11	25.33	3.25	33.39	33.30	46.02	-12.72	VERTICAL	QP
5 614.000	31.41	25.92	3.25	33.39	27.19	46.02	-18.83	VERTICAL	QP
6 908.667	97.59	29.48	4.22	32.22	99.07	46.02	53.05	VERTICAL	QP
7 960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	VERTICAL	QP

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Test Mode: 00; Polarity: Horizontal; Bandwidth:8MHz; Channel:Low



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode :

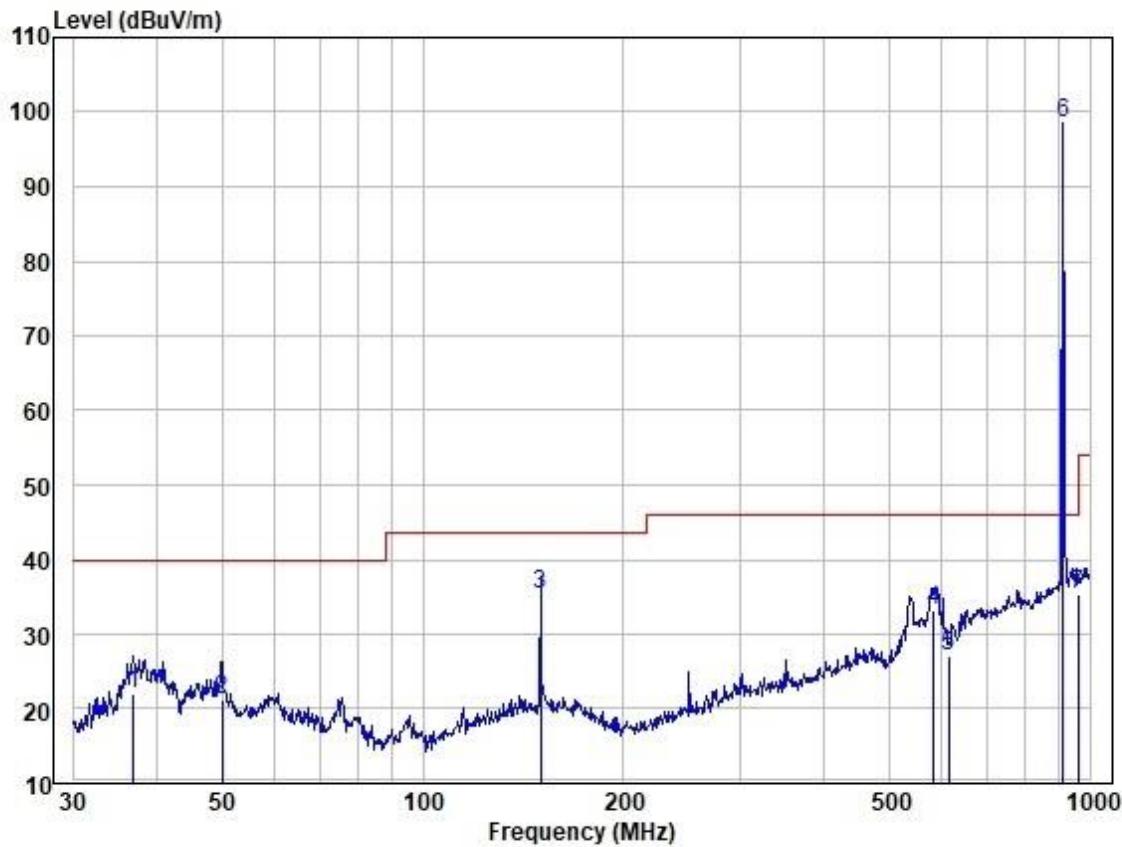
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 36.127	36.62	18.39	0.70	32.95	22.76	40.00	-17.24	HORIZONTAL	QP
2 150.050	44.00	19.04	1.40	33.00	31.44	43.52	-12.08	HORIZONTAL	QP
3 300.367	37.87	19.26	2.20	33.10	26.23	46.02	-19.79	HORIZONTAL	QP
4 541.373	33.62	24.31	3.06	33.34	27.65	46.02	-18.37	HORIZONTAL	QP
5 614.000	30.81	25.92	3.25	33.39	26.59	46.02	-19.43	HORIZONTAL	QP
6 908.667	90.53	29.52	4.23	32.19	92.09	46.02	46.07	HORIZONTAL	QP
7 960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	HORIZONTAL	QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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Test Mode: 00; Polarity: Vertical; Bandwidth:8MHz; Channel:middle



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 36.895	35.63	18.59	0.70	32.96	21.96	40.00	-18.04	VERTICAL	QP
2 50.057	34.03	19.55	0.70	33.00	21.28	40.00	-18.72	VERTICAL	QP
3 150.050	48.00	19.04	1.40	33.00	35.44	43.52	-8.08	VERTICAL	QP
4 582.743	38.09	25.31	3.23	33.38	33.25	46.02	-12.77	VERTICAL	QP
5 614.000	31.26	25.92	3.25	33.39	26.99	46.02	-19.03	VERTICAL	QP
6 916.667	97.02	29.52	4.23	32.19	98.58	46.02	52.56	VERTICAL	Peak
7 960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	VERTICAL	QP

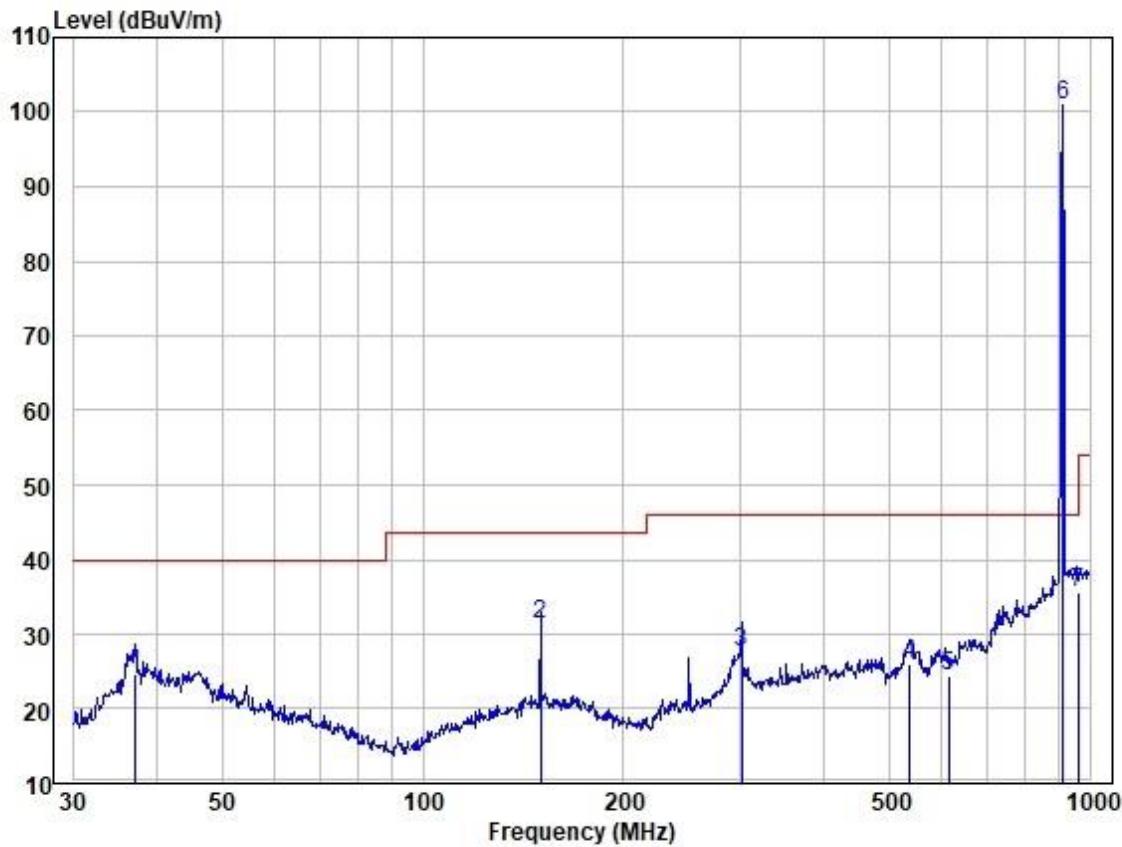
*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.



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Test Mode: 00; Polarity: Horizontal; Bandwidth:8MHz; Channel:middle



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	37.155	38.40	18.59	0.70	32.96	24.73	40.00	-15.27	HORIZONTAL QP
2	150.050	44.00	19.04	1.40	33.00	31.44	43.52	-12.08	HORIZONTAL QP
3	300.367	39.16	19.26	2.20	33.10	27.52	46.02	-18.50	HORIZONTAL QP
4	537.589	32.12	24.29	3.04	33.34	26.11	46.02	-19.91	HORIZONTAL QP
5	614.000	28.51	25.92	3.25	33.39	24.29	46.02	-21.73	HORIZONTAL QP
6	916.667	99.36	29.52	4.23	32.19	100.92	46.02	54.90	HORIZONTAL QP
7	960.000	33.40	29.74	4.10	31.64	35.60	46.02	-10.42	HORIZONTAL QP

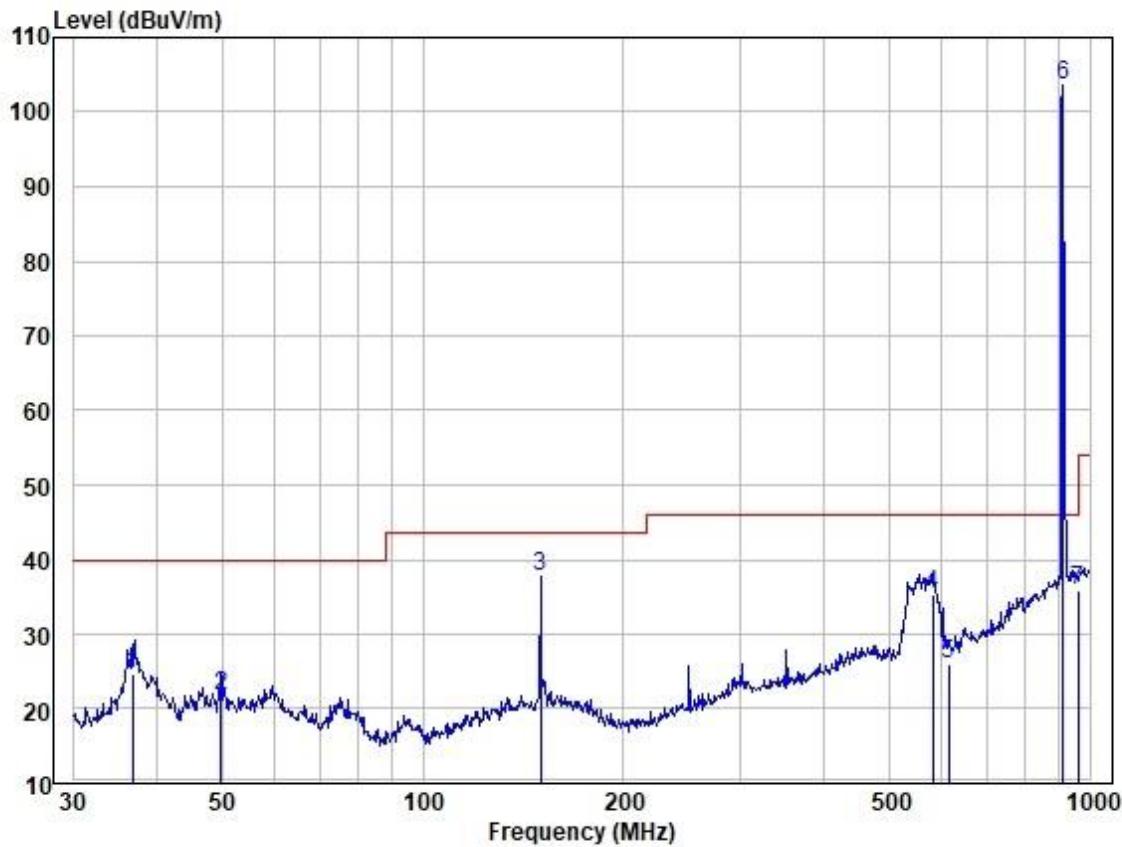
*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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Test Mode: 00; Polarity: Vertical; Bandwidth:8MHz; Channel:High



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	36.766	38.40	18.59	0.70	32.96	24.73	40.00	-15.27	VERTICAL QP
2	49.881	34.44	19.53	0.70	33.00	21.67	40.00	-18.33	VERTICAL QP
3	150.050	50.33	19.04	1.40	33.00	37.77	43.52	-5.75	VERTICAL QP
4	580.703	40.16	25.30	3.22	33.38	35.30	46.02	-10.72	VERTICAL QP
5	614.000	30.31	25.92	3.25	33.39	26.09	46.02	-19.93	VERTICAL QP
6	924.667	102.14	29.52	4.23	32.19	103.70	46.02	57.68	VERTICAL QP
7	960.000	33.60	29.74	4.10	31.64	35.80	46.02	-10.22	VERTICAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

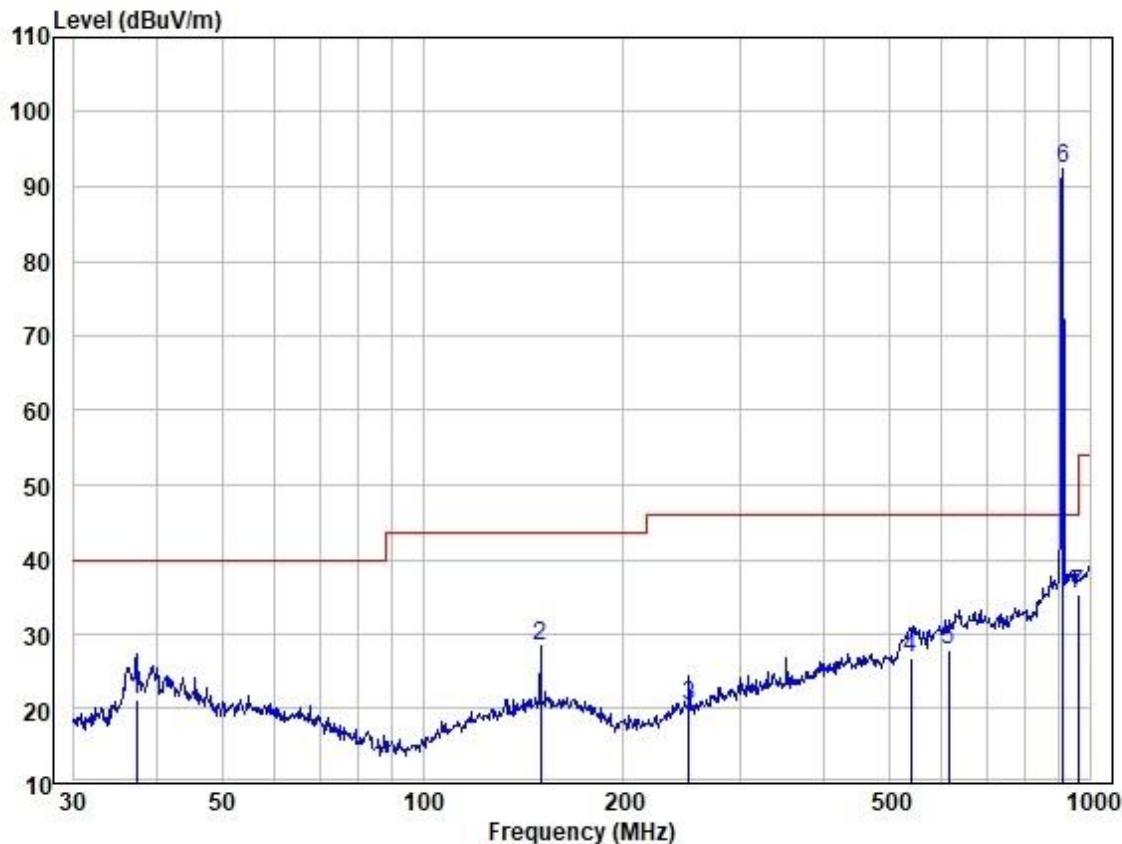
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Test Mode: 00; Polarity: Horizontal; Bandwidth:8MHz; Channel:High



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	37.285	34.62	18.73	0.90	32.96	21.29	40.00	-18.71	HORIZONTAL QP
2	150.050	40.93	19.04	1.40	33.00	28.37	43.52	-15.15	HORIZONTAL QP
3	250.301	34.03	17.62	1.90	33.05	20.50	46.02	-25.52	HORIZONTAL QP
4	539.478	32.76	24.30	3.05	33.34	26.77	46.02	-19.25	HORIZONTAL QP
5	614.000	32.21	25.92	3.25	33.39	27.99	46.02	-18.03	HORIZONTAL QP
6	924.667	90.80	29.52	4.23	32.19	92.36	46.02	46.34	HORIZONTAL QP
7	960.000	33.20	29.74	4.10	31.64	35.40	46.02	-10.62	HORIZONTAL QP

*Remark: Point 6 is the fundamental frequency of the EUT which is evaluated in section 7.2 of this test report.

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7.9 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.9.1 E.U.T. Operation

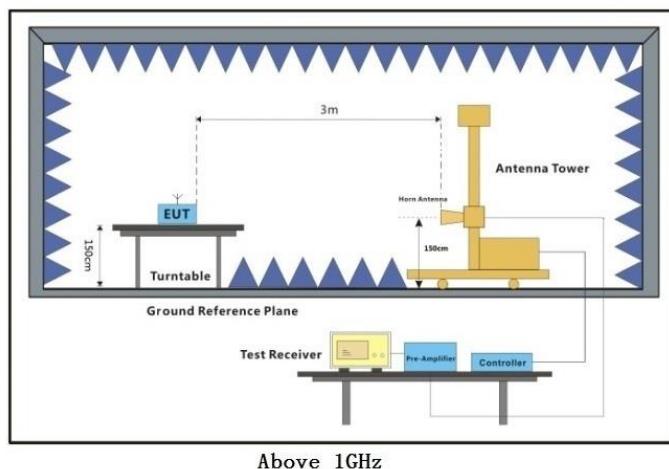
Operating Environment:

Temperature: 22.1 °C Humidity: 58.6 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Mode	Final test	Description
	Code	
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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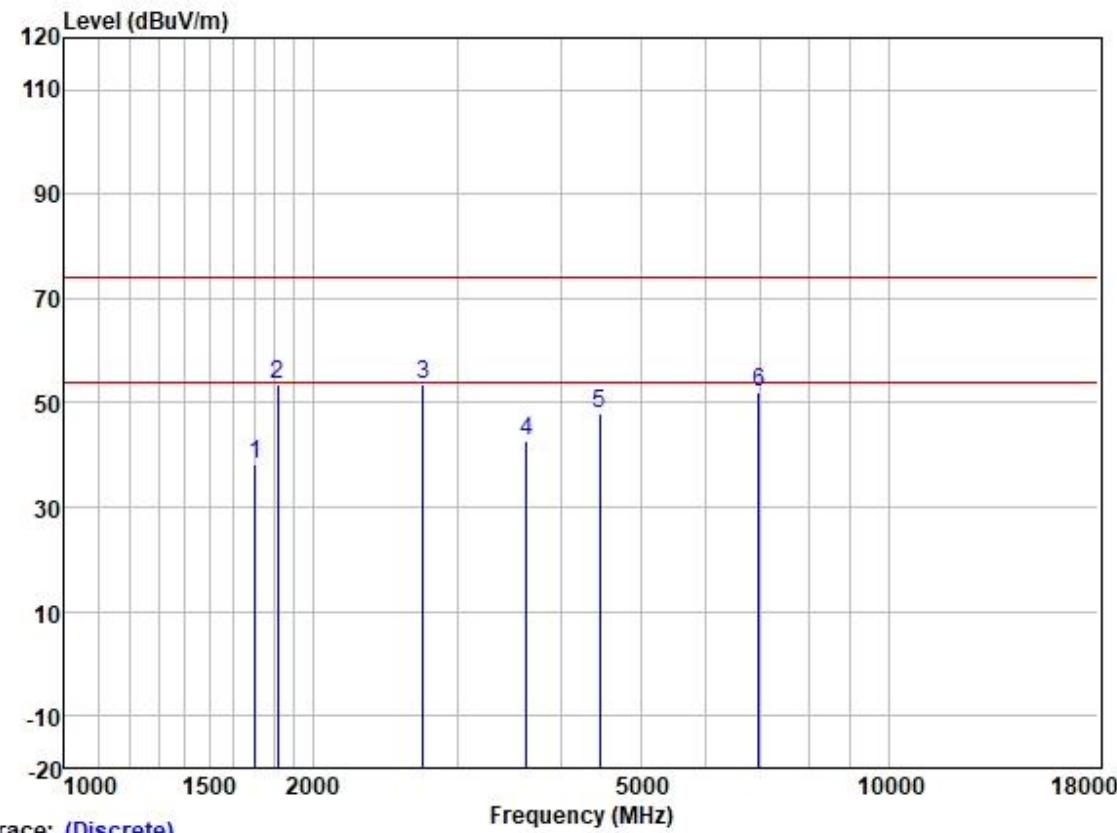
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Test Mode: 00; Polarity: Vertical; Bandwidth:2MHz; Channel:Low



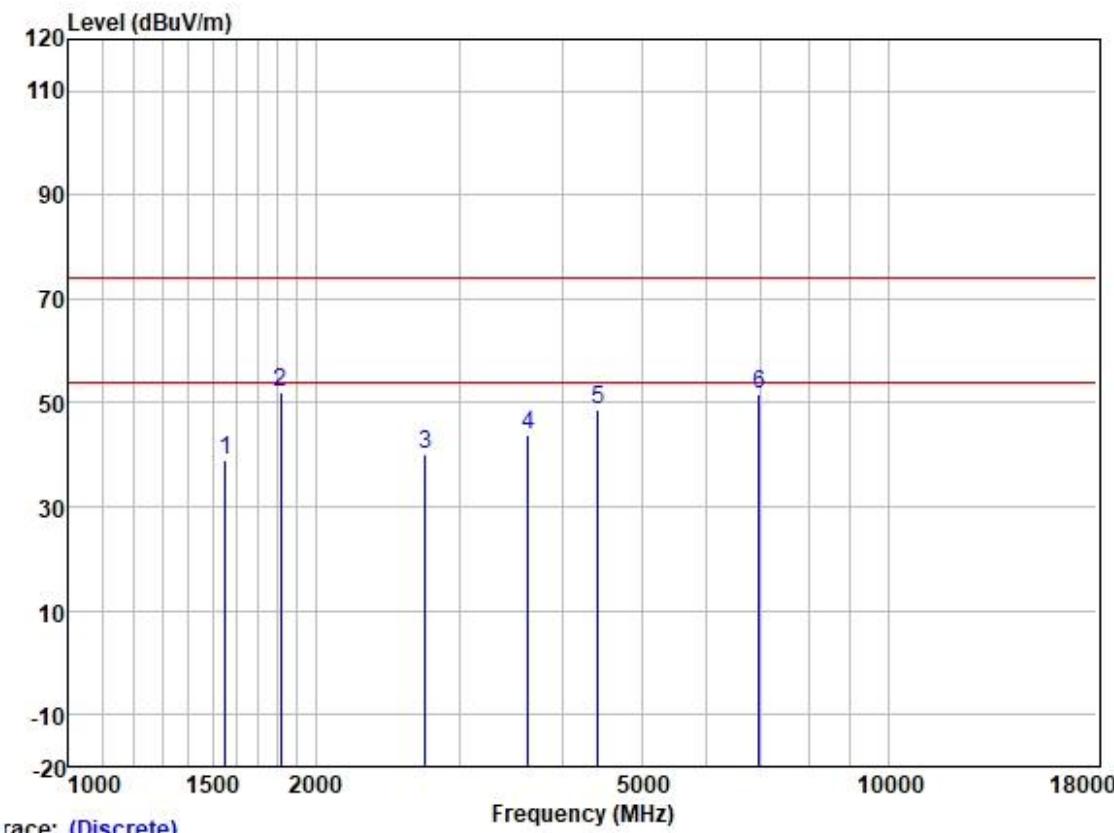
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dB _{UV}	dB/m	dB	dB	dB _{UV} /m	dB _{UV} /m	dB		
1 1702.042	47.67	25.15	3.36	37.92	38.26	74.00	-35.74	VERTICAL	peak
2 1816.000	61.73	25.92	3.75	37.91	53.49	74.00	-20.51	VERTICAL	peak
3 2724.000	60.31	28.25	2.74	37.59	53.71	74.00	-20.29	VERTICAL	peak
4 3632.000	45.75	29.36	4.45	36.92	42.64	74.00	-31.36	VERTICAL	peak
5 4456.315	45.39	34.00	5.35	36.83	47.91	74.00	-26.09	VERTICAL	peak
6 6954.852	47.60	35.04	6.40	37.09	51.95	74.00	-22.05	VERTICAL	peak

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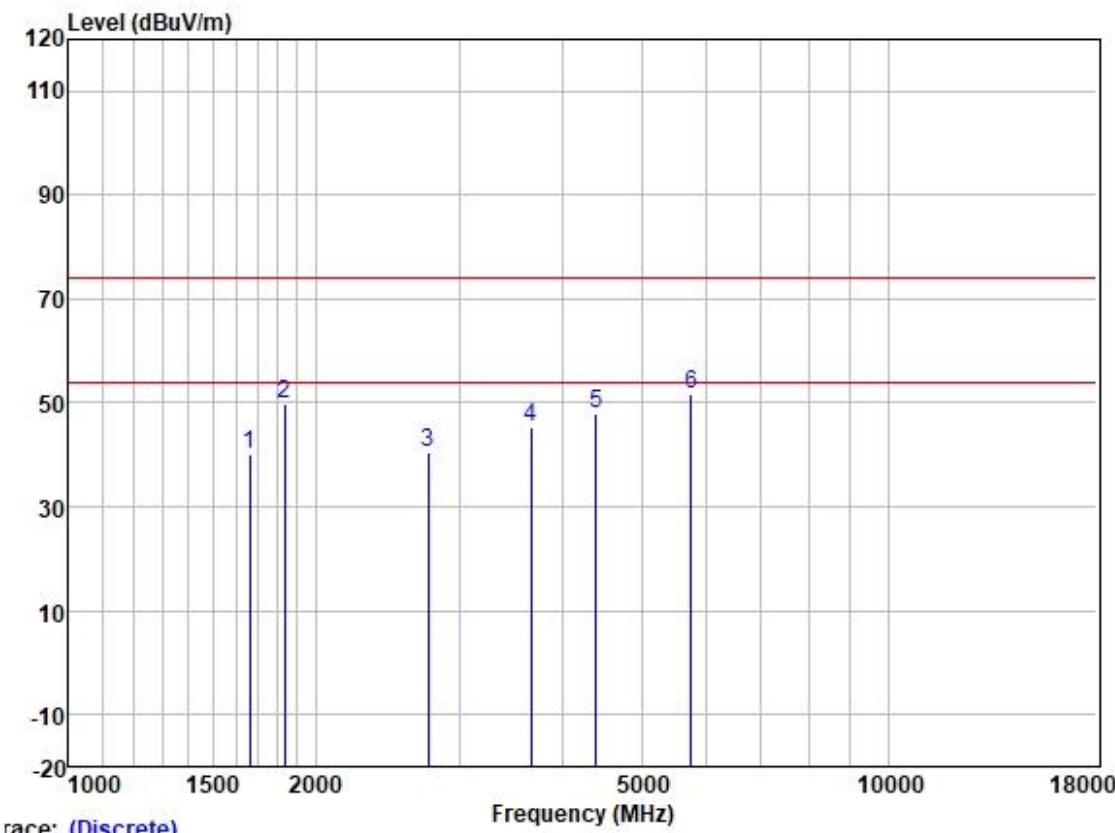
Test Mode: 00; Polarity: Horizontal; Bandwidth:2MHz; Channel:Low



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Test Mode: 00; Polarity: Vertical; Bandwidth:2MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Freq	Level	Antenna Factor	Loss	Preamp Factor	Level				
MHz	dBuV	dB/m		dB		dBuV/m	dBuV/m	dB		
1 1663.137	50.10	24.93		3.18	37.93	40.28	74.00	-33.72	VERTICAL	peak
2 1832.000	57.92	25.98		3.87	37.91	49.86	74.00	-24.14	VERTICAL	peak
3 2748.000	46.73	28.33		2.85	37.57	40.34	74.00	-33.66	VERTICAL	peak
4 3664.000	48.23	29.47		4.47	36.91	45.26	74.00	-28.74	VERTICAL	peak
5 4405.090	45.60	33.74		5.37	36.82	47.89	74.00	-26.11	VERTICAL	peak
6 5746.982	50.44	32.65		5.70	36.99	51.80	74.00	-22.20	VERTICAL	peak

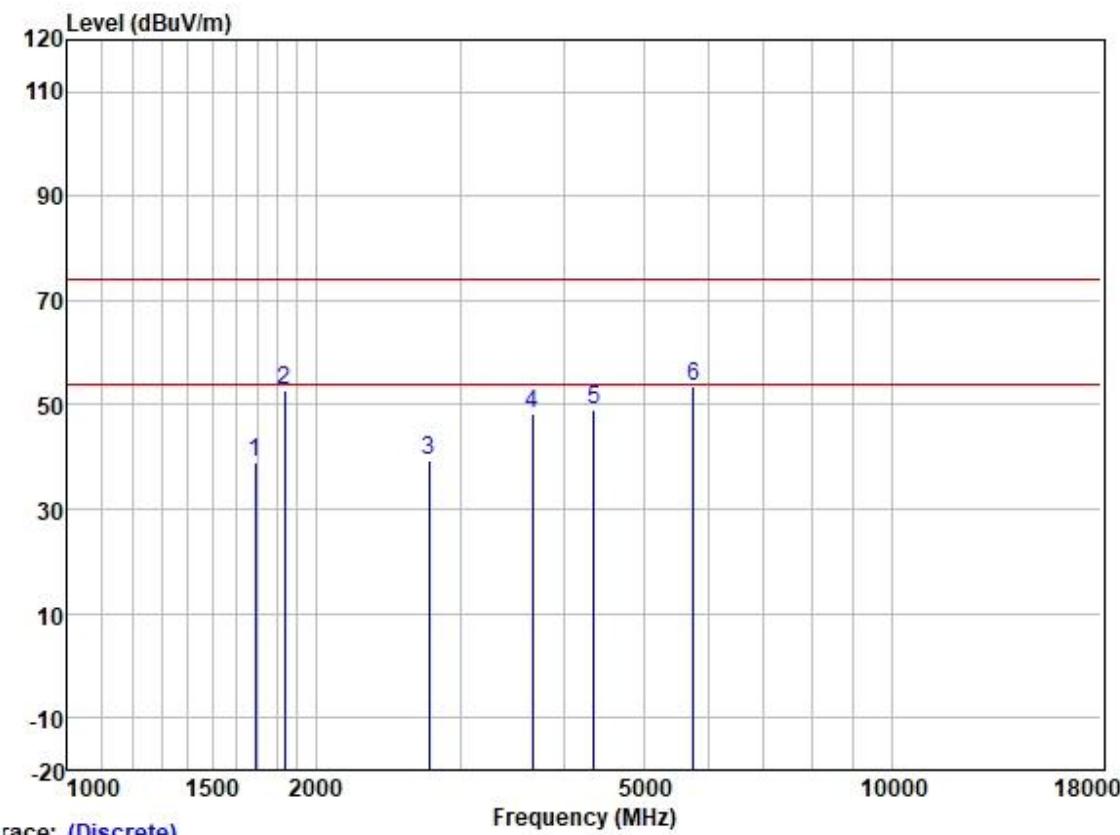
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Test Mode: 00; Polarity: Horizontal; Bandwidth:2MHz; Channel:middle



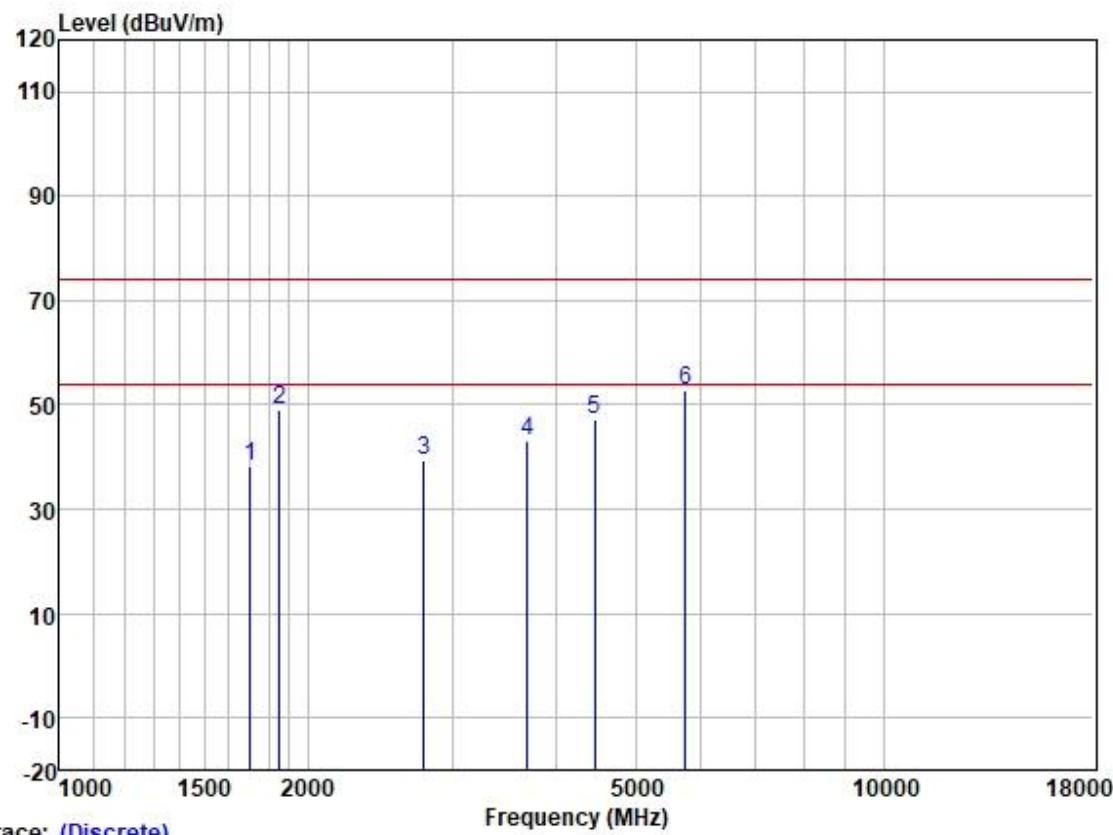
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dB _{UV}	dB/m	dB	dB	dB _{UV} /m	dB _{UV} /m	dB				
1	1692.231	48.34	25.09	3.30	37.93	38.80	74.00	-35.20	HORIZONTAL	peak	
2	1832.000	60.81	25.98	3.87	37.91	52.75	74.00	-21.25	HORIZONTAL	peak	
3	2748.000	45.57	28.33	2.85	37.57	39.18	74.00	-34.82	HORIZONTAL	peak	
4	3664.000	51.26	29.47	4.47	36.91	48.29	74.00	-25.71	HORIZONTAL	peak	
5	4354.454	47.06	33.43	5.34	36.82	49.01	74.00	-24.99	HORIZONTAL	peak	
6	5746.982	52.16	32.65	5.70	36.99	53.52	74.00	-20.48	HORIZONTAL	peak	

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Test Mode: 00; Polarity: Vertical; Bandwidth:2MHz; Channel:High



trace: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss					
MHz	dB _{UV}	dB/m	dB	dB	dB _{UV} /m	dB _{UV} /m	dB	
1 1702.042	47.55	25.15	3.36	37.92	38.14	74.00	-35.86	VERTICAL peak
2 1848.000	56.95	26.04	4.00	37.91	49.08	74.00	-24.92	VERTICAL peak
3 2772.000	45.62	28.39	2.98	37.57	39.42	74.00	-34.58	VERTICAL peak
4 3696.000	45.89	29.60	4.49	36.89	43.09	74.00	-30.91	VERTICAL peak
5 4456.315	44.77	34.00	5.35	36.83	47.29	74.00	-26.71	VERTICAL peak
6 5746.982	51.60	32.65	5.70	36.99	52.96	74.00	-21.04	VERTICAL peak

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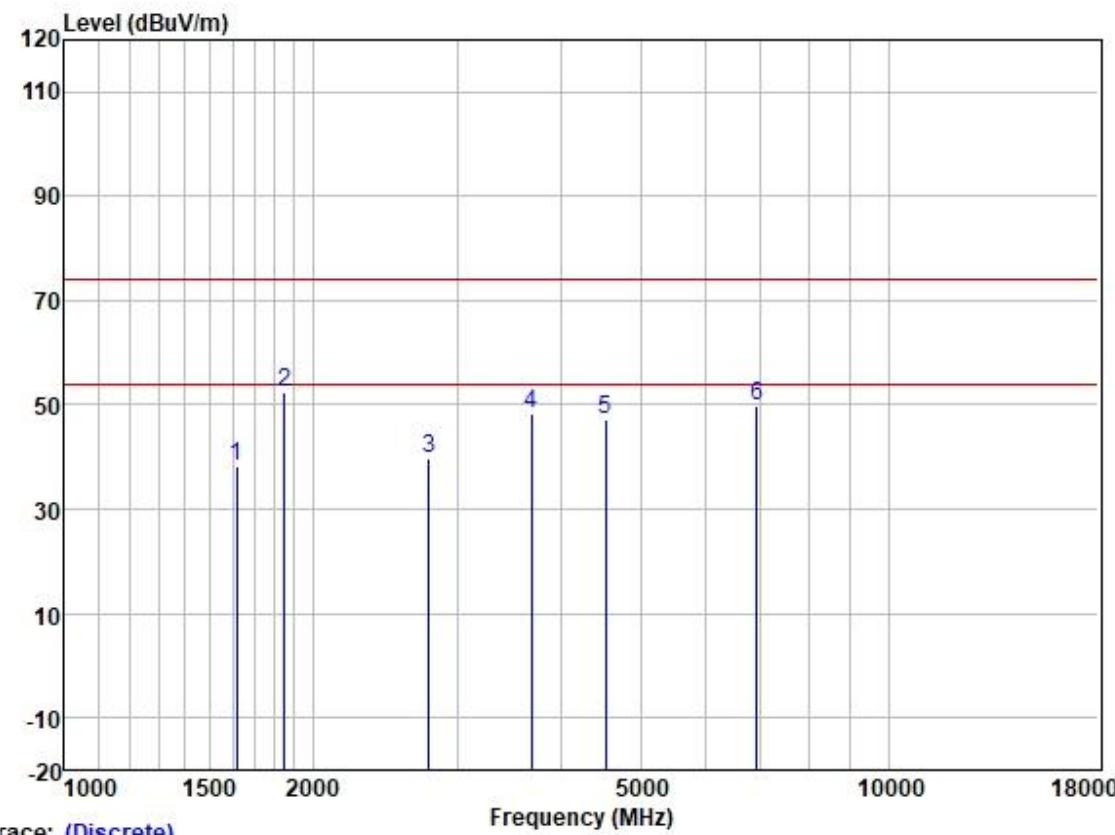
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Test Mode: 00; Polarity: Horizontal; Bandwidth:2MHz; Channel:High



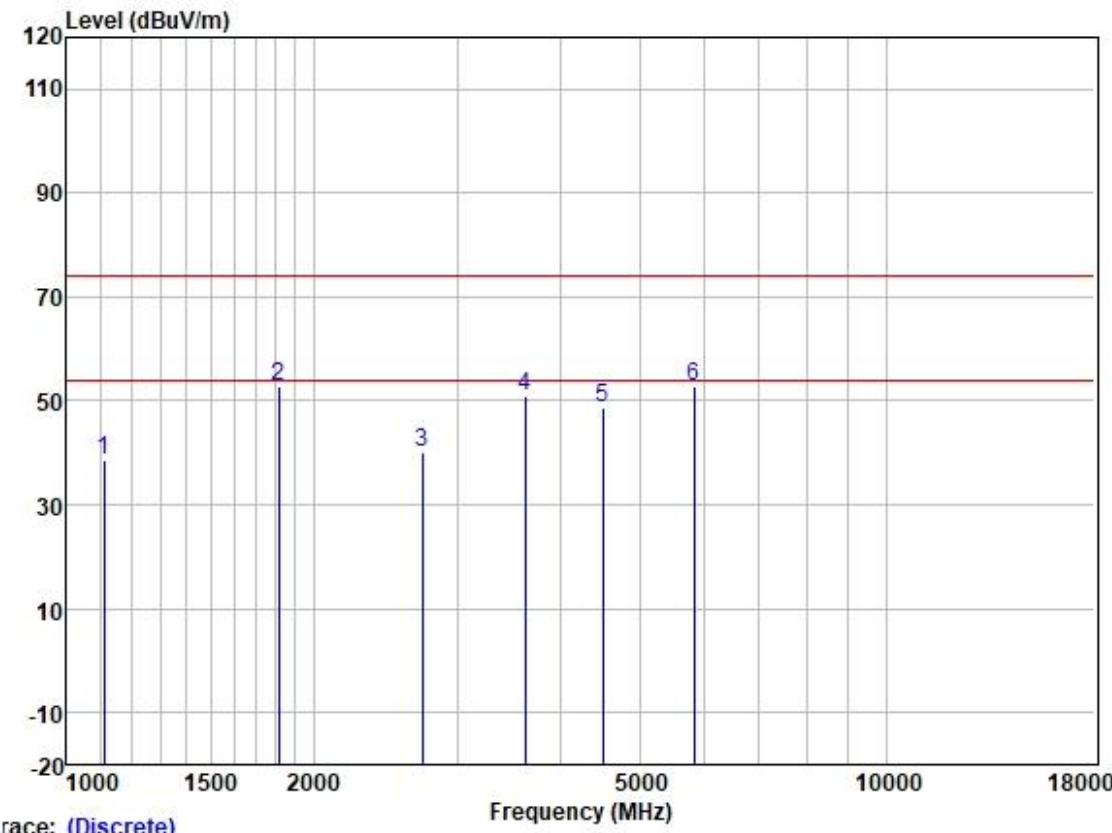
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dB _{UV} /m	dB _{UV} /m	dB	Line	Limit	Pol/Phase
MHz	dB _{UV}	dB/m	dB	dB	dB _{UV} /m	dB _{UV} /m	dB	Line	Limit	Pol/Phase	Remark
1	1615.754	48.51	24.74	3.04	37.93	38.36	74.00	-35.64	HORIZONTAL	peak	
2	1848.000	60.19	26.04	4.00	37.91	52.32	74.00	-21.68	HORIZONTAL	peak	
3	2772.000	45.91	28.39	2.98	37.57	39.71	74.00	-34.29	HORIZONTAL	peak	
4	3682.374	51.05	29.55	4.49	36.90	48.19	74.00	-25.81	HORIZONTAL	peak	
5	4534.271	44.59	34.17	5.31	36.84	47.23	74.00	-26.77	HORIZONTAL	Peak	
6	6914.763	45.59	34.97	6.39	37.08	49.87	74.00	-24.13	HORIZONTAL	peak	

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Test Mode: 00; Polarity: Vertical; Bandwidth:4MHz; Channel:Low



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level	Line	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m		
1 1109.660	51.49	22.71	2.51	37.99	38.72	74.00	-35.28	VERTICAL peak
2 1812.000	61.16	25.92	3.75	37.91	52.92	74.00	-21.08	VERTICAL peak
3 2718.000	46.64	28.22	2.71	37.61	39.96	74.00	-34.04	VERTICAL peak
4 3624.000	54.05	29.33	4.44	36.92	50.90	74.00	-23.10	VERTICAL peak
5 4508.136	46.15	34.17	5.32	36.83	48.81	74.00	-25.19	VERTICAL Peak
6 5830.640	51.33	32.67	5.74	36.99	52.75	74.00	-21.25	VERTICAL peak

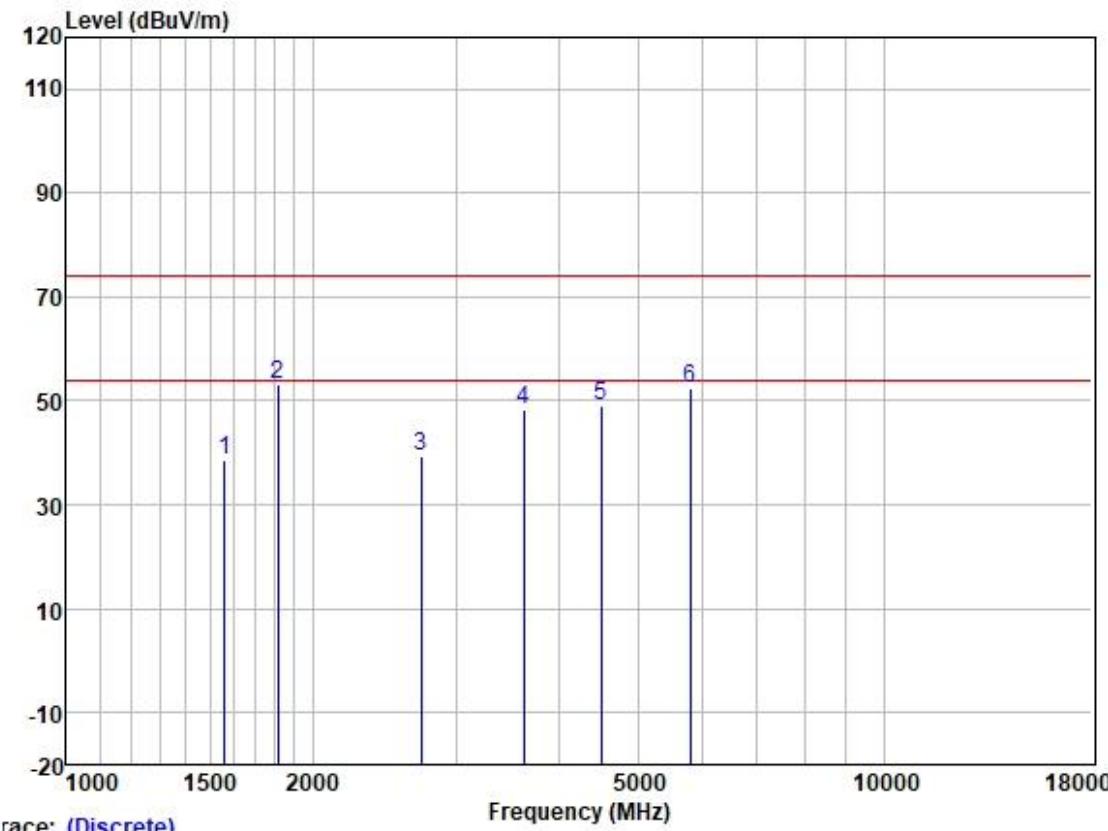
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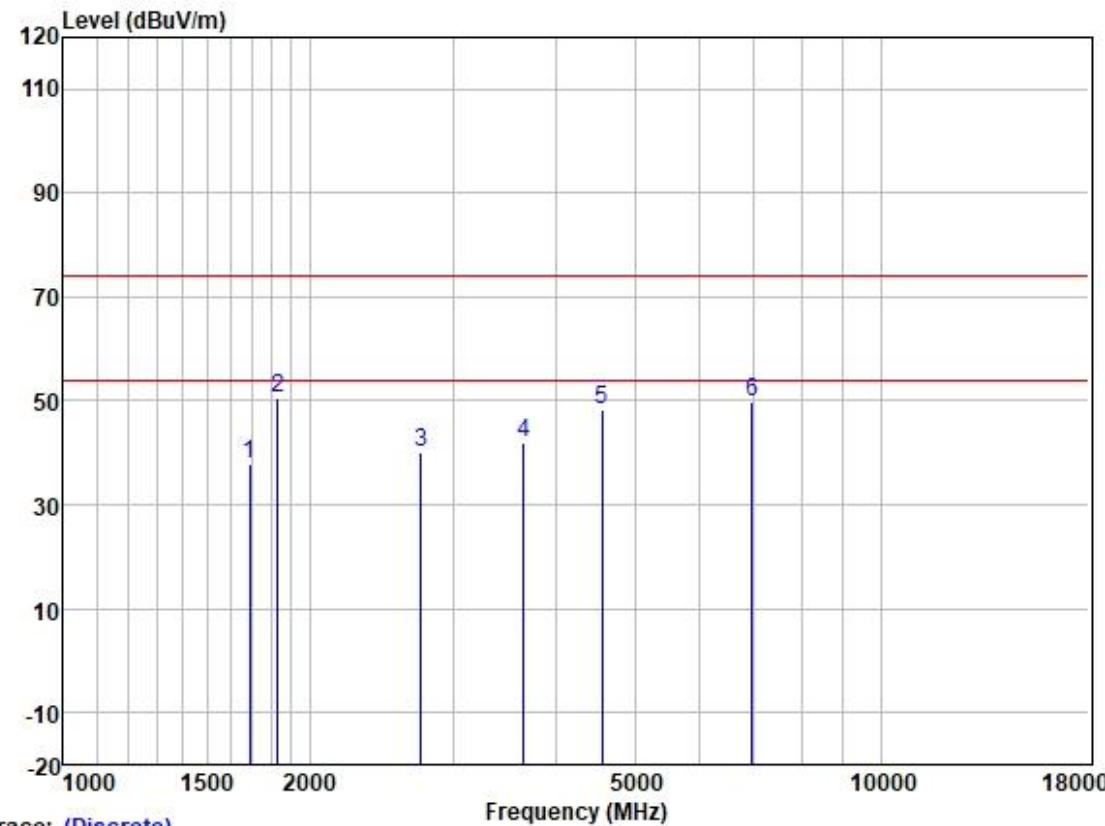
Test Mode: 00; Polarity: Horizontal; Bandwidth:4MHz; Channel:Low



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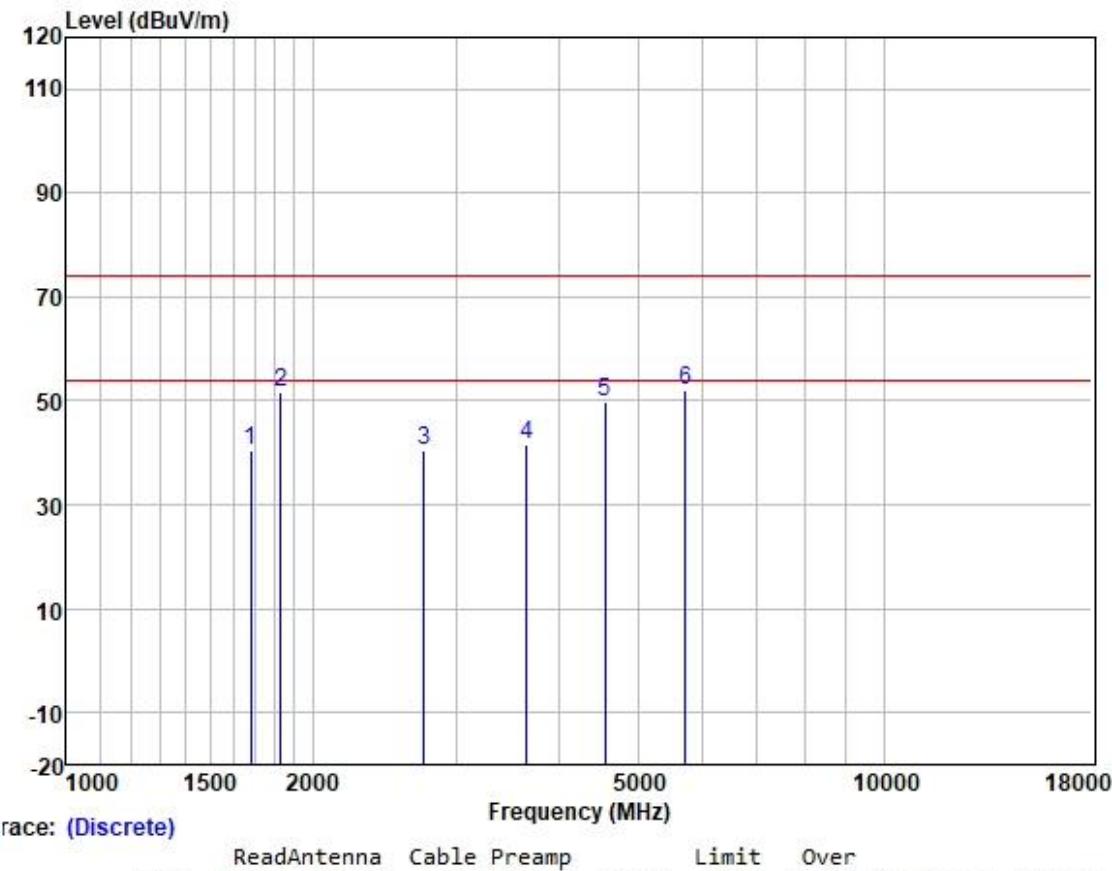
Test Mode: 00; Polarity: Vertical; Bandwidth:4MHz; Channel:middle



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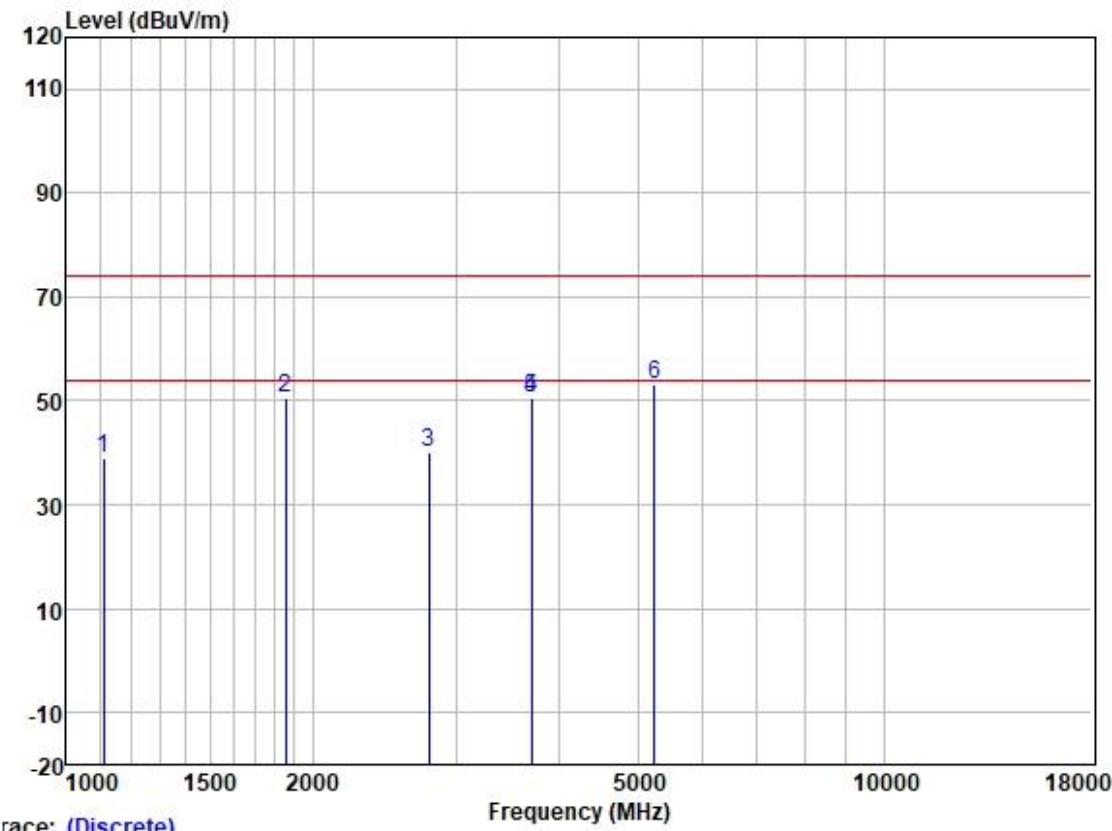
Test Mode: 00; Polarity: Horizontal; Bandwidth:4MHz; Channel:middle



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Test Mode: 00; Polarity: Vertical; Bandwidth:4MHz; Channel:High



Race: (Discrete)	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1109.660	51.88	22.71	2.51	37.99	39.11	74.00	-34.89	VERTICAL	peak	
2	1852.000	58.56	26.05	4.04	37.91	50.74	74.00	-23.26	VERTICAL	peak	
3	2778.000	46.18	28.39	2.98	37.55	40.00	74.00	-34.00	VERTICAL	peak	
4	3703.723	53.19	29.65	4.50	36.89	50.45	74.00	-23.55	VERTICAL	peak	
5	3704.000	53.19	29.65	4.50	36.89	50.45	74.00	-23.55	VERTICAL	peak	
6	5239.274	51.40	33.45	5.37	36.94	53.28	74.00	-20.72	VERTICAL	peak	

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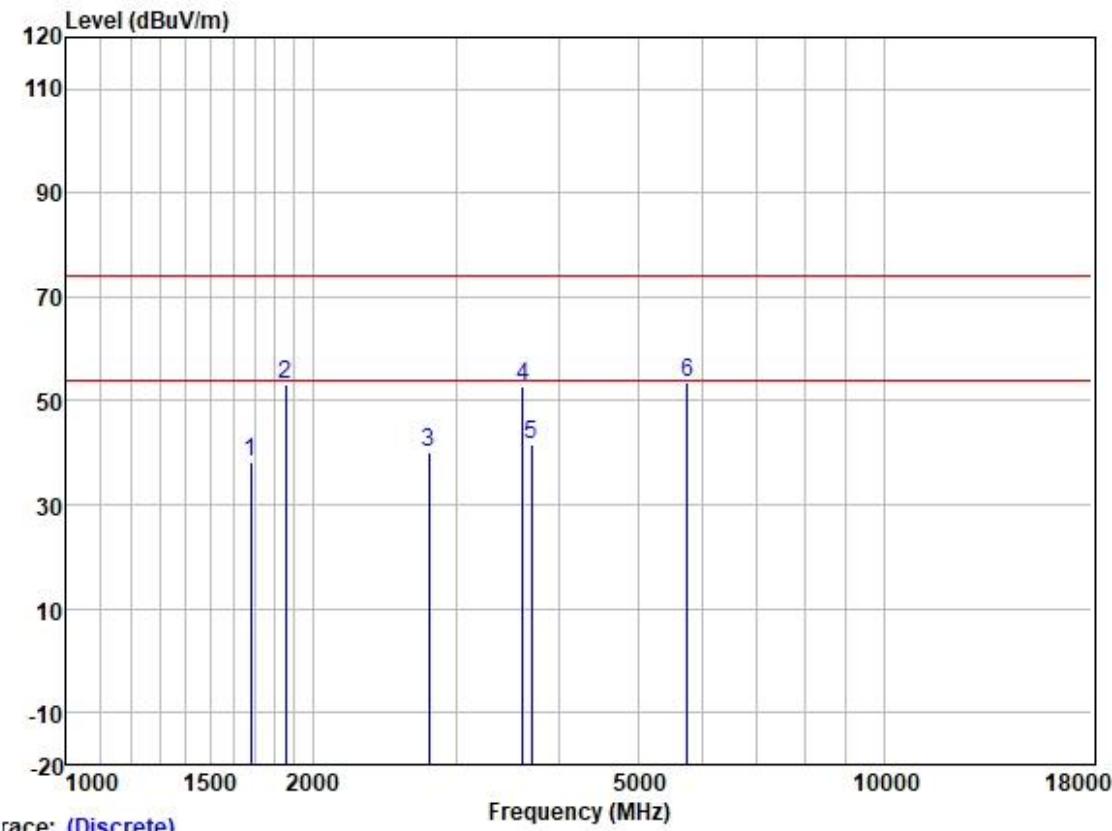


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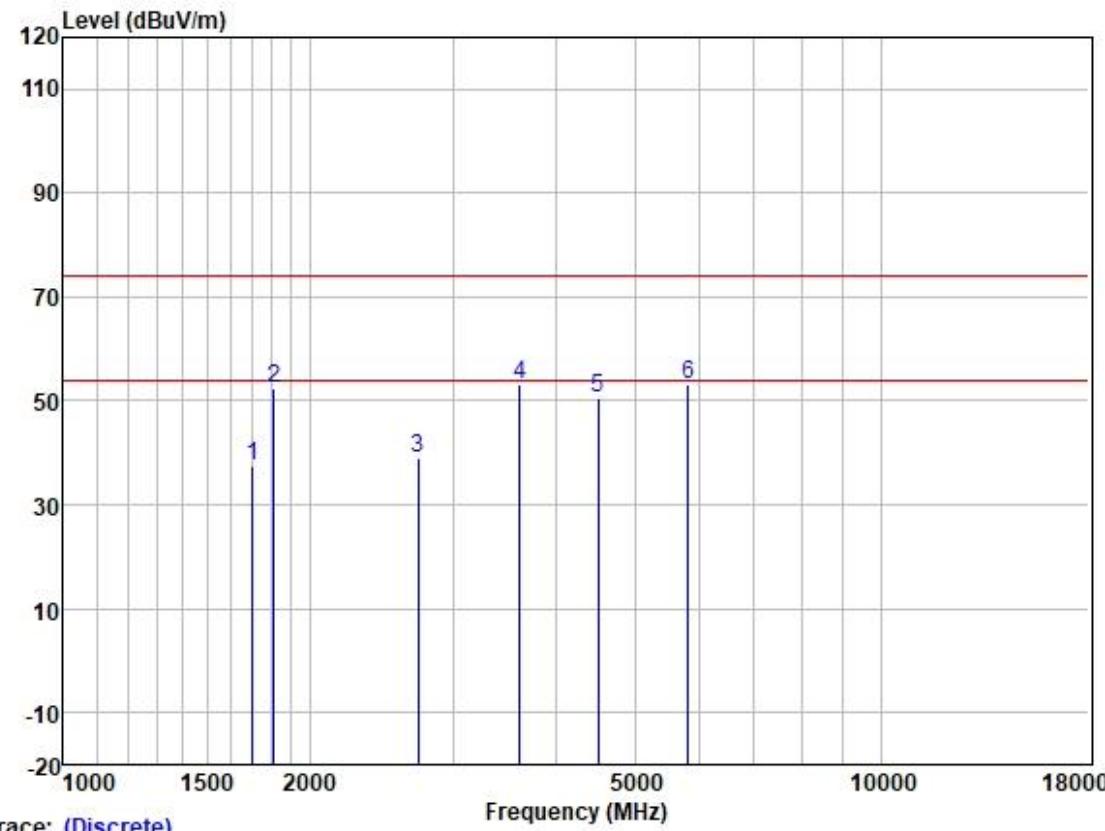
Test Mode: 00; Polarity: Horizontal; Bandwidth:4MHz; Channel:High



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Test Mode: 00; Polarity: Vertical; Bandwidth:8MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 1702.042	46.98	25.15	3.36	37.92	37.57	74.00	-36.43	VERTICAL	peak	
2 1810.000	60.80	25.90	3.72	37.91	52.51	74.00	-21.49	VERTICAL	peak	
3 2715.000	45.57	28.22	2.71	37.61	38.89	74.00	-35.11	VERTICAL	peak	
4 3620.000	56.47	29.33	4.44	36.92	53.32	74.00	-20.68	VERTICAL	peak	
5 4508.136	47.87	34.17	5.32	36.83	50.53	74.00	-23.47	VERTICAL	peak	
6 5813.812	51.68	32.67	5.71	36.99	53.07	74.00	-20.93	VERTICAL	peak	

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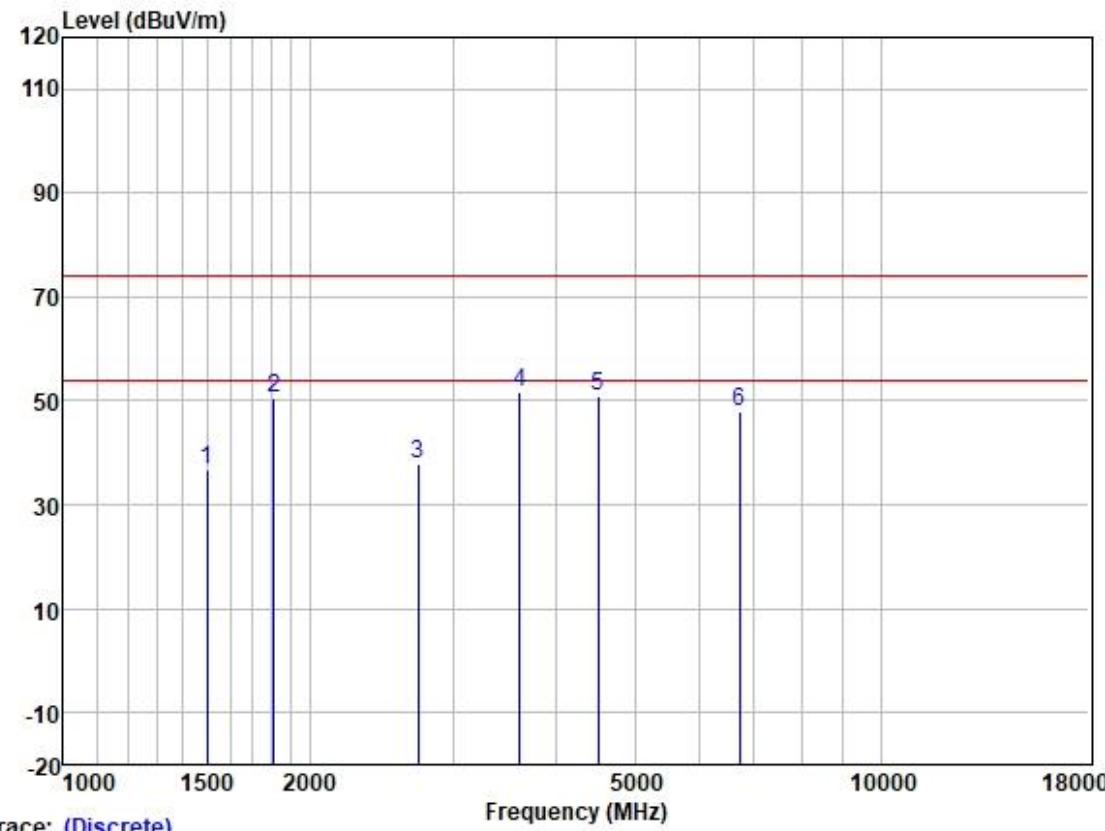
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Test Mode: 00; Polarity: Horizontal; Bandwidth:8MHz; Channel:Low



Index: (Discrete)	Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
		Level	Factor	Loss	Factor	Level	Line				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1498.781	47.41	24.43	2.89	37.95	36.78	74.00	-37.22	HORIZONTAL	peak	
2	1810.000	58.67	25.90	3.72	37.91	50.38	74.00	-23.62	HORIZONTAL	peak	
3	2715.000	44.71	28.22	2.71	37.61	38.03	74.00	-35.97	HORIZONTAL	peak	
4	3620.000	54.90	29.33	4.44	36.92	51.75	74.00	-22.25	HORIZONTAL	peak	
5	4508.136	48.20	34.17	5.32	36.83	50.86	74.00	-23.14	HORIZONTAL	peak	
6	6717.762	44.19	34.42	6.29	37.05	47.85	74.00	-26.15	HORIZONTAL	peak	

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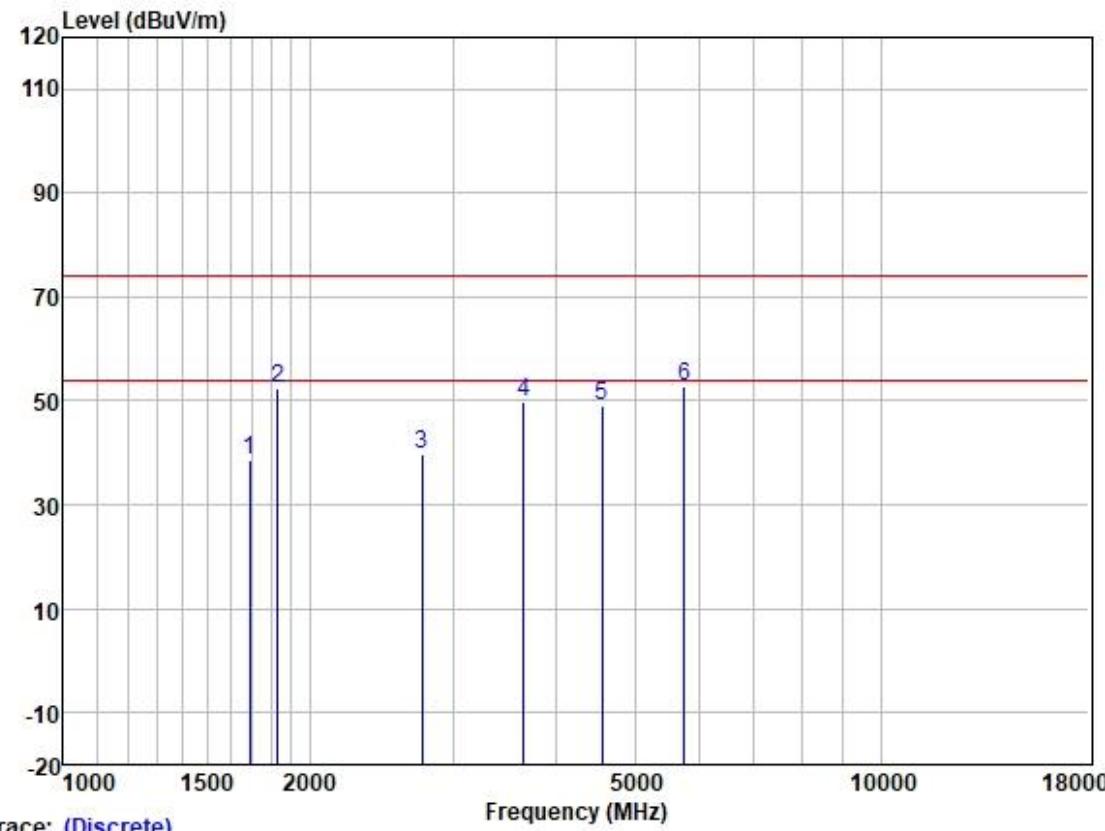
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Test Mode: 00; Polarity: Vertical; Bandwidth:8MHz; Channel:middle



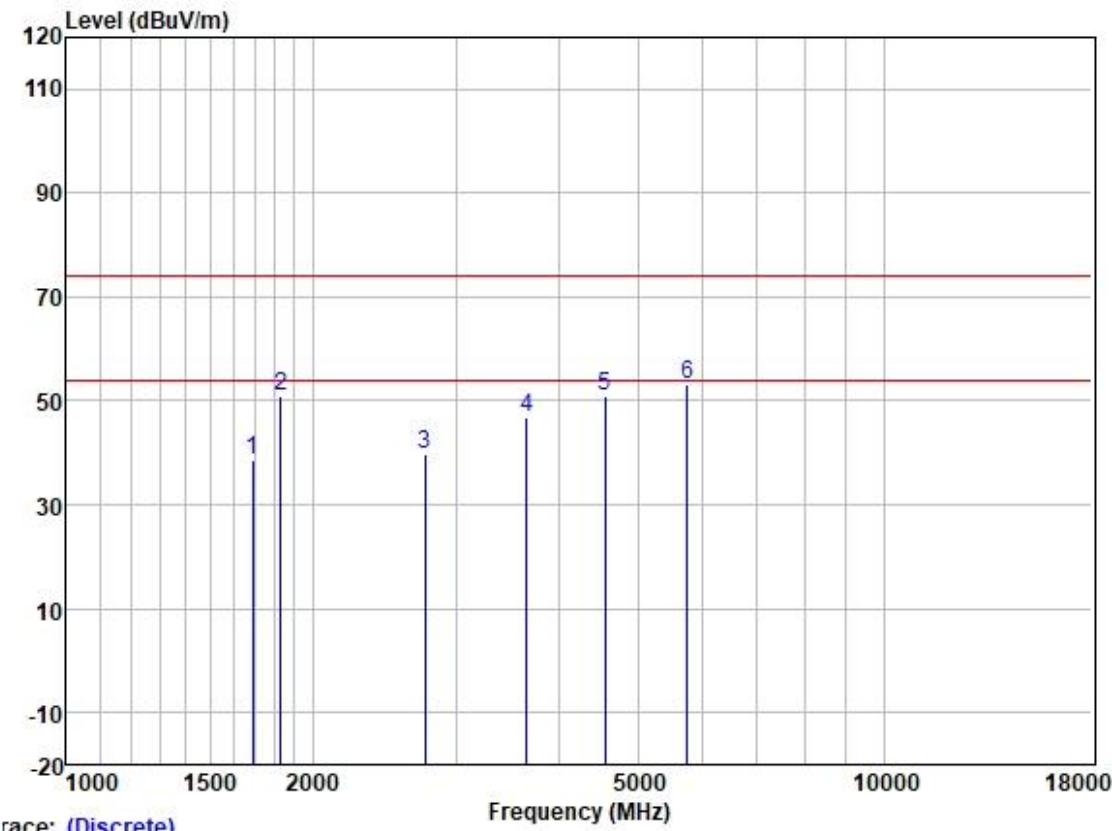
Race: (Discrete)	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Antenna	Loss	Factor	Level					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1692.231	48.06	25.09	3.30	37.93	38.52	74.00	-35.48	VERTICAL	peak	
2	1830.000	60.33	25.98	3.87	37.91	52.27	74.00	-21.73	VERTICAL	peak	
3	2745.000	46.24	28.30	2.81	37.59	39.76	74.00	-34.24	VERTICAL	peak	
4	3660.000	52.93	29.47	4.47	36.91	49.96	74.00	-24.04	VERTICAL	peak	
5	4560.559	46.38	34.17	5.30	36.84	49.01	74.00	-24.99	VERTICAL	peak	
6	5746.982	51.57	32.65	5.70	36.99	52.93	74.00	-21.07	VERTICAL	peak	

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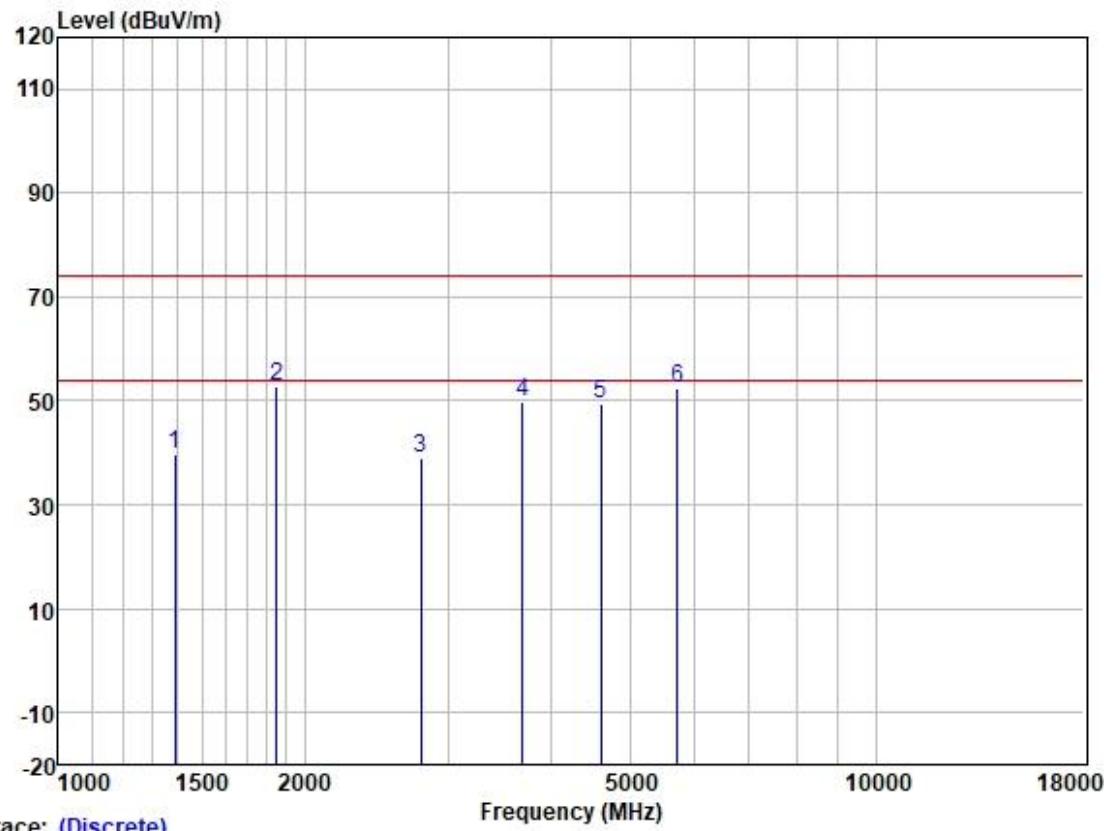
Test Mode: 00; Polarity: Horizontal; Bandwidth:8MHz; Channel:middle



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Test Mode: 00; Polarity: Vertical; Bandwidth:8MHz; Channel:High



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