



Certificate #4312.01

TEST REPORT

Product Name: Smart Door Station
Trade Mark: GRANDSTREAM
Model No.: GDS3725
Add Model No.: GDS3726
Report Number: 25052718150RFC-2
Test Standards: FCC 47 CFR Part 15 Subpart C
FCC ID: YZZGDS3725
Test Result: PASS
Date of Issue: July 25, 2025

Prepared for:

Grandstream Networks, Inc.
126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

Prepared by:

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July 25, 2025

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Version

Version No.	Date	Description
V1.0	July 25, 2025	Original



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CONTENTS

1. GENERAL INFORMATION	4
1.1 CLIENT INFORMATION	4
1.2 EUT INFORMATION	4
1.2.1 GENERAL DESCRIPTION OF EUT	4
1.2.2 DESCRIPTION OF ACCESSORIES	4
1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	4
1.4 OTHER INFORMATION	5
1.5 DESCRIPTION OF SUPPORT UNITS	5
1.6 TEST LOCATION	5
1.7 TEST FACILITY	5
1.8 DEVIATION FROM STANDARDS	6
1.9 ABNORMALITIES FROM STANDARD CONDITIONS	6
1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER	6
1.11 MEASUREMENT UNCERTAINTY	6
2. TEST SUMMARY	7
3. EQUIPMENT LIST	8
4. TEST CONFIGURATION	9
4.1 ENVIRONMENTAL CONDITIONS FOR TESTING	9
4.1.1 NORMAL OR EXTREME TEST CONDITIONS	9
4.1.2 RECORD OF NORMAL ENVIRONMENT AND TEST SAMPLE	9
4.2 TEST CHANNELS	9
4.3 EUT TEST STATUS	9
4.4 TEST SETUP	10
4.4.1 FOR RADIATED EMISSIONS TEST SETUP	10
4.4.2 FOR CONDUCTED EMISSIONS TEST SETUP	11
4.4.3 FOR CONDUCTED RF TEST SETUP	11
4.5 SYSTEM TEST CONFIGURATION	13
5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION	14
5.1 REFERENCE DOCUMENTS FOR TESTING	14
5.2 ANTENNA REQUIREMENT	14
5.3 20DB BANDWIDTH	14
5.4 THE FIELD STRENGTH OF ANY EMISSIONS APPEARING OUTSIDE OF THE 13.110-14.010 MHz BAND	17
5.5 FUNDAMENTAL FIELD STRENGTH AND EMISSION MASK 13.110 MHz TO 14.010 MHz	27
5.6 FREQUENCY TOLERANCE	29
5.7 CONDUCTED EMISSION	31
APPENDIX 1 PHOTOS OF TEST SETUP	38
APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS	38

1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Grandstream Networks, Inc.
Address of Applicant:	126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Manufacturer:	Grandstream Networks, Inc.
Address of Manufacturer:	126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Smart Door Station	
Model No.:	GDS3725	
Add Model No.:	GDS3726	
Trade Mark:	GRANDSTREAM	
DUT Stage:	Identical Prototype	
EUT Supports Function: (Provided by the customer)	2.4 GHz ISM Band:	Bluetooth V5.2
	NFC:	13.553 MHz to 13.567 MHz
	RF ID:	13.553 MHz to 13.567 MHz 125 kHz
Sample Received Date:	June 12, 2025	
Sample Tested Date:	June 24, 2025 to July 14, 2025	

Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.

1.2.2 Description of Accessories

Others
Wall Bracket, 13.56MHz RFID Cards

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Range:	13.110 MHz to 14.010 MHz
Nominal Operating Frequency:	13.56 MHz
Work in Modes:	Card Emulation
NFC Type:	☒ NFC A Type
	☒ NFC B Type
	☒ NFC F Type
Max. Data Rates:	212 Kbps
Type of Modulation:	ASK
Number of Channels:	1
Antenna Type:	Coil Antenna
Maximum Field Strength:	57.8 dBμV/m at 3 meter
Normal Test Voltage:	12 Vdc
Extreme Test Voltage:	11.4 to 12.6 Vdc
Extreme Test Temperature:	-30 °C to +60 °C
Nominal Operating Frequency:	125kHz

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Type of Modulation:	ASK
Antenna Type:	Coil Antenna

1.4 OTHER INFORMATION

None

1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Serial Number	Supplied by
Notebook	DELL	Latitude 3400	16238087894	UnionTrust
Mouse	DELL	MS111	CN-011D3V-738	UnionTrust
Power over Ethernet Injector	Cisco	MA-INJ-4	QS-6593-01N A02	UnionTrust
Switching Power Adapter	FSP	FSP025-1AD207A	0213A03K	UnionTrust

1.6 TEST LOCATION

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1.7 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

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1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	±3.2 dB
2	Conducted emission 150kHz-30MHz	±2.7 dB
3	Radiated emission 9kHz-30MHz	±4.7 dB
4	Radiated emission 30MHz-1GHz	±4.6 dB
5	Radiated emission 1GHz-18GHz	±4.4 dB
6	Radiated emission 18GHz-40GHz	±4.6 dB
7	Occupied Bandwidth	± 1.86 %
8	Radio Frequency	± 7 x 10 ⁻⁸

2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart C Test Cases			
Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203	N/A	PASS
Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
The field strength of any emissions appearing outside of the 13.110-14.010 MHz band	FCC 47 CFR Part 15 Subpart C Section 15.225(d) /15.209	ANSI C63.10-2013	PASS
Fundamental Field Strength and Emission Mask 13.110 MHz to 14.010 MHz	FCC 47 CFR Part 15 Subpart C Section 15.227(a) (b) (c) /15.205	ANSI C63.10-2013	PASS
20DB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.215(c)	ANSI C63.10-2013	PASS
Frequency Tolerance	FCC 47 CFR Part 15 Subpart C Section 15.225(e)	ANSI C63.10-2013	PASS
Disclaimer and Explanations: The declared of product specification and data (e.g., antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.			

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Receiver	R&S	ESIB26	100114	25-Oct-2024	24-Oct-2025
☒	Loop Antenna	ETS-LINDGREN	6502	00202525	28-Oct-2024	27-Oct-2025
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	29-Oct-2024	28-Oct-2025
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	29-Oct-2024	28-Oct-2025
☒	Preamplifier	HP	8447F	2805A02960	25-Oct-2024	24-Oct-2025
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	Receiver	R&S	ESC13	1166.5950.03	25-Oct-2024	24-Oct-2025
☒	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	25-Oct-2024	24-Oct-2025
☒	LISN	R&S	EVN216	3560.6550.12	26-Sep-2024	25-Sep-2025
☐	LISN	ETS-Lindgren	3816/2SH	00201088	25-Oct-2024	24-Oct-2025
☒	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1		

RF Conducted Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	Spectrum analyzer	R&S	FSV40-N	101653	28-Mar-2025	27-Mar-2026
☒	Loop Antenna	ETS-LINDGREN	6502	00202525	28-Oct-2024	27-Oct-2025
☒	DC Source	KIKUSUI	PWR400L	LK003024	19-Jul-2024	18-Jul-2025
☒	Temp & Humidity chamber	Votisch	VT4002	58566133290020	28-Mar-2025	27-Mar-2026

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Test Environment	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
TN/VN	+15 to +35	12	20 to 75
TL/VL	-30	11.4	20 to 75
TH/VL	+60	11.4	20 to 75
TL/VH	-30	12.6	20 to 75
TH/VH	+60	12.6	20 to 75

Remark:

- The EUT just work in such extreme temperature of -30 °C to +60 °C and the extreme voltage of 11.4 V to 12.6 V, so here the EUT is tested in the temperature of -30 °C to +60 °C and the voltage of 11.4 V to 12.6 V.
- VN: Normal Voltage; TN: Normal Temperature;
TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

4.1.2 Record of Normal Environment and Test Sample

Test Item	Temp. (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
Conducted Emission	24.8	57.2	99.6	S202506126230-ZJB02/5	Linson Xie
The field strength of any emissions appearing outside of the 13.110-14.010 MHz band	23.8	46.4	100.1	S202506126230-ZJB03/5	David Du
Fundamental Field Strength and Emission Mask 13.110 MHz to 14.010 MHz					
20DB Bandwidth					
Radiated Spurious Emissions	25.1	61.2	99.7	S202506126230-ZJB05/5	Fire Huo

4.2 TEST CHANNELS

Frequency	Test RF Channel
13.553 MHz to 13.567 MHz	Channel 1
	13.56 MHz
119 kHz to 140 kHz	Channel 1
	125 kHz

4.3 EUT TEST STATUS

Frequency	Tx Function	Description
13.56 MHz 125 kHz	1Tx	1. Keep the EUT in continuously transmitting during the test.

4.4 TEST SETUP

4.4.1 For Radiated Emissions test setup

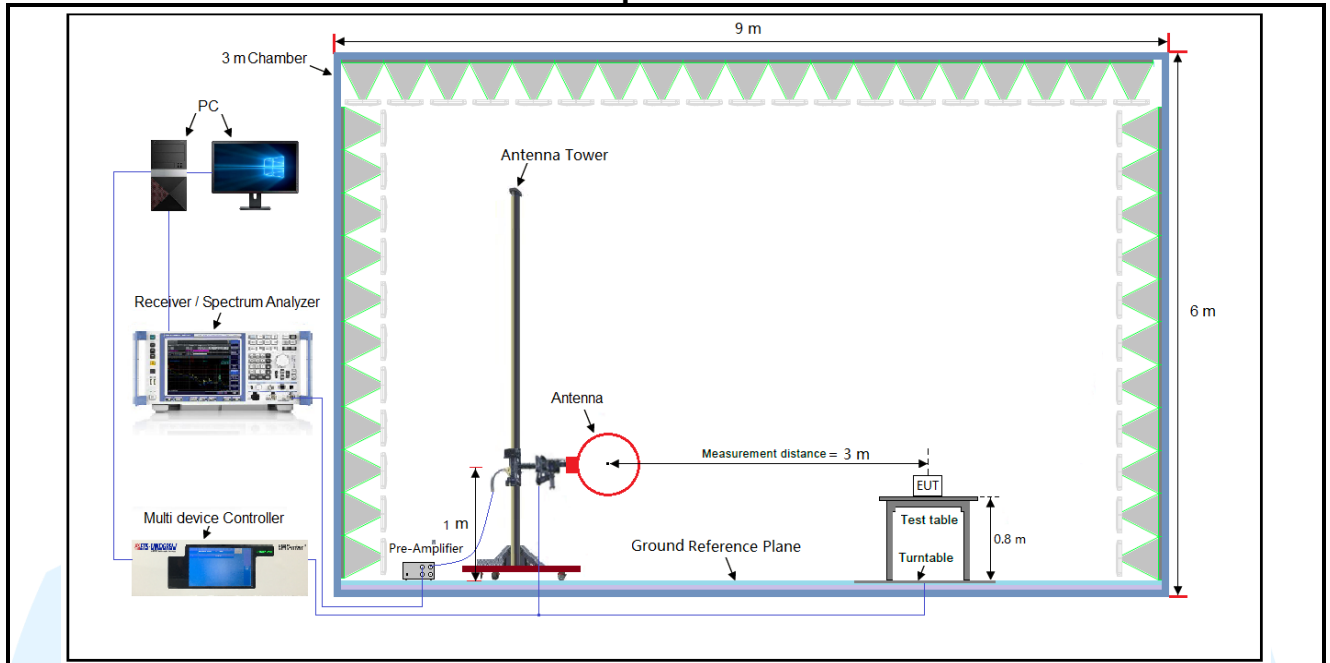


Figure 1. Below 30MHz

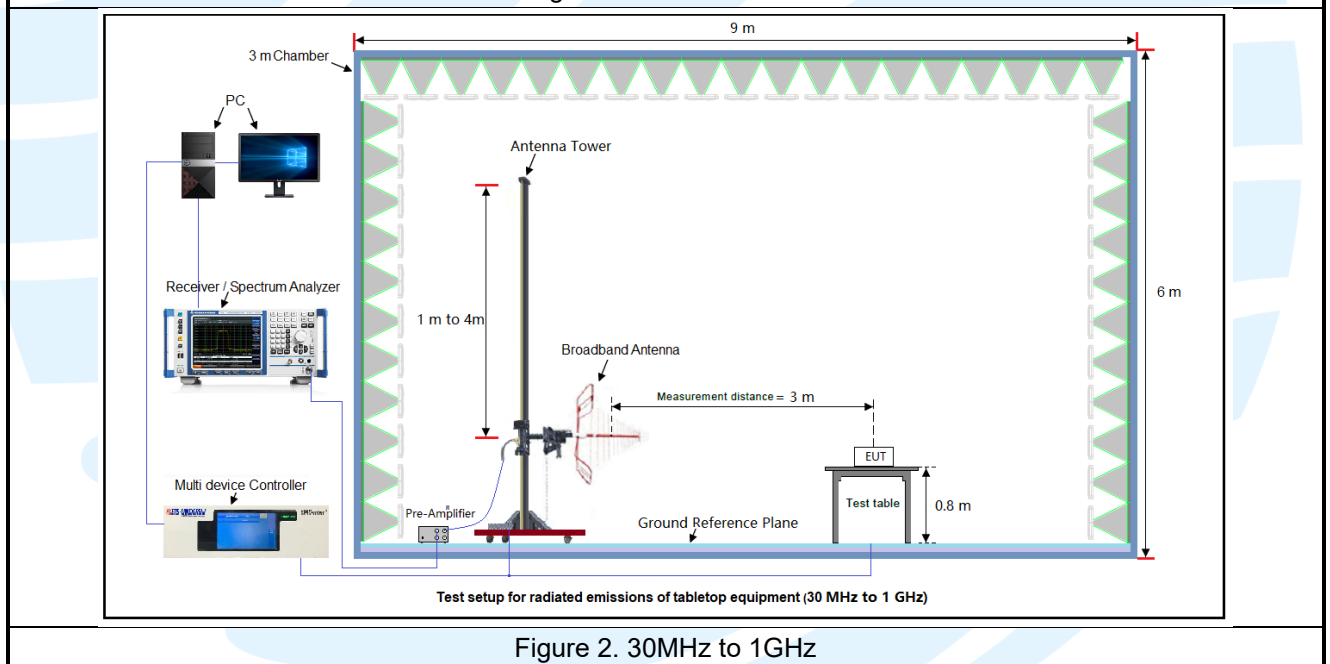
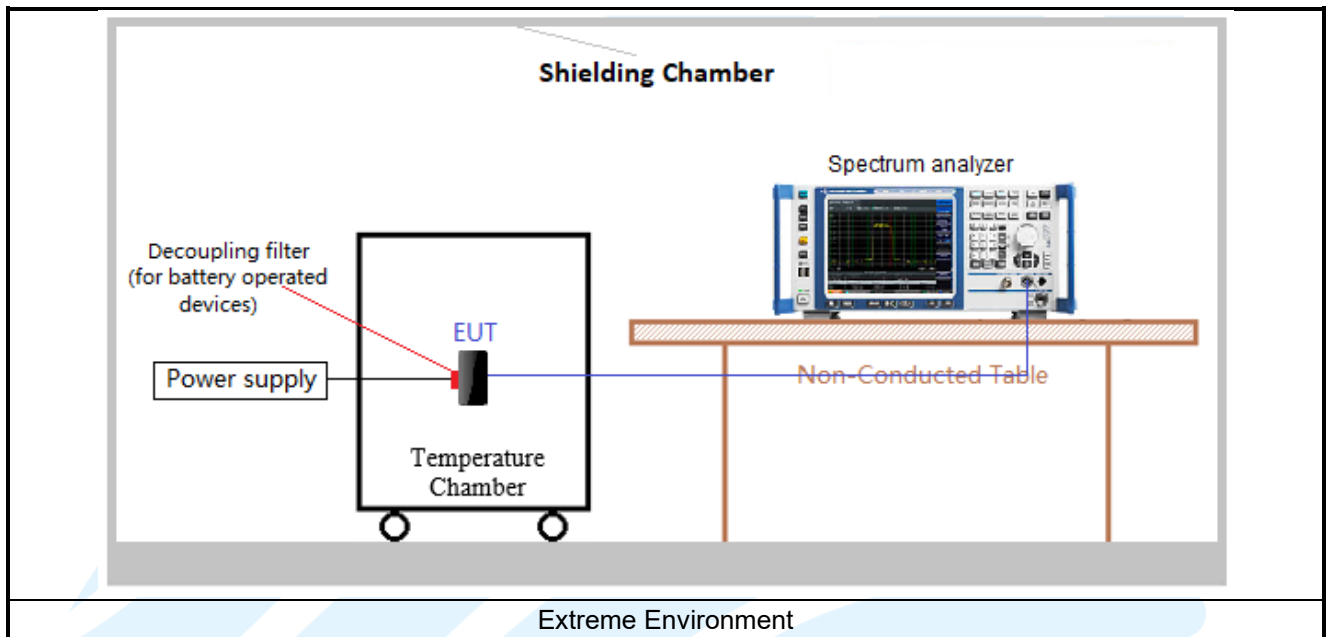


Figure 2. 30MHz to 1GHz

The diagram illustrates the experimental setup within a Shielding Room. On the left, a PC is connected to a Receiver, which is in turn connected to a Pulse Limiter. A Ground Reference Plane is indicated below the equipment. The Pulse Limiter is connected to LISN 1, which is connected to the AC Mains. LISN 1 is positioned 80 cm from the Test table. The Test table holds two EUT/AE units, each 10 cm apart from each other and 10 cm from the EUT/AE PSU. The Test table is 40 cm high and has an Insulation ≤ 0.15 m. LISN 2 is connected to the AC Mains and is positioned 80 cm from the Test table. The entire setup is enclosed in a Shielding Room.

The diagram illustrates a Shielding Chamber setup. A Spectrum analyzer is connected to an EUT (Equipment Under Test) via a cable. Both are placed on a Non-Conducted Table. The entire setup is enclosed within a Shielding Chamber, which is situated in a Normal Environment.



4.5 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. Only the worst case data were recorded in this test report.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 15	Radio Frequency Devices
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

5.2 ANTENNA REQUIREMENT

Standard Requirement
15.203 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.
EUT Antenna: This product has a permanent antenna, fulfill the requirement of this section.

5.3 20DB BANDWIDTH

Test Requirement:	FCC 47 CFR Part 15 Subpart C Section 15.215 (c)
Test Method:	ANSI C63.10
Limit:	Operation within the band 13.110 MHz to 14.010 MHz
Requirement:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be. Demonstrated by measuring the radiated emissions.
Test Procedure:	Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Use the following spectrum analyzer settings: - The spectrum analyzer center frequency is set to the nominal EUT channel center frequency - Span = approximately 2 to 5 times the OBW - RBW = 1% to 5% of the OBW - VBW $\geq 3 \times$ RBW - Sweep = auto; - Detector function = peak - Trace = max hold - All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down bandwidth of the emission. Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.
Test Setup:	Refer to section 4.5.3 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Transmitter mode
Test Results:	Pass

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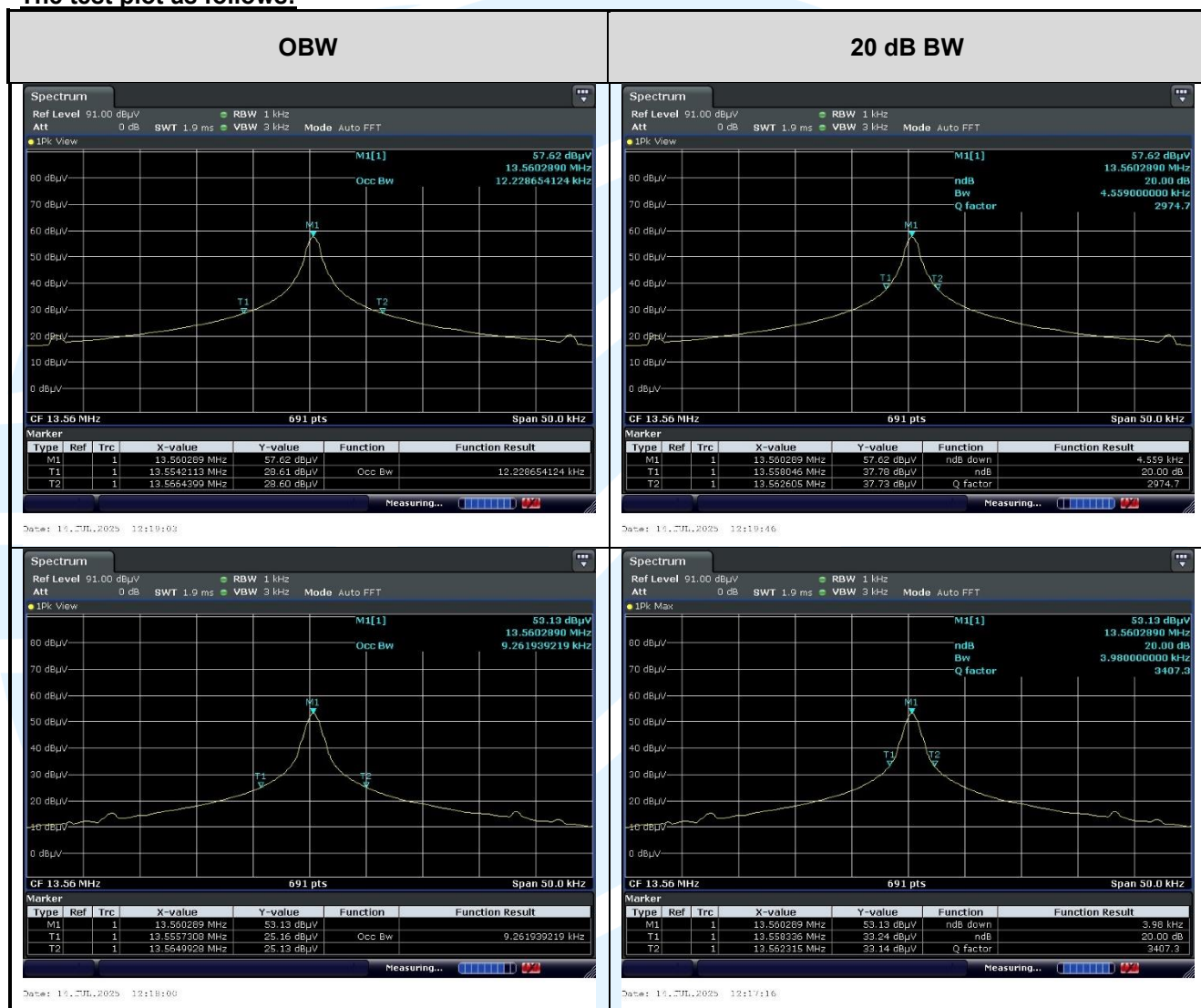
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Test Frequency	OBW (kHz)	20 dB BW (kHz)	Limit
13.56 MHz A Type	12.22	4.559	Operation within the band 13.110 MHz to 14.010 MHz
13.56 MHz F Type	9.26	3.980	
125 kHz	2.66	1.259	N/A

The test plot as follows:





5.4 THE FIELD STRENGTH OF ANY EMISSIONS APPEARING OUTSIDE BAND

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.225(d) /15.209

Test Method: ANSI C63.10-2013 Section 6.6.4.3

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

Spurious Emissions

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBμV/m) = 20 log Emission level (μV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, 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 Below 30MHz, the measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

Field strength limit for 13.56MHz	= 15848 μV/m	at 30m
	= 84 dBμV/m	at 30m
	= 84 dBμV/m + 40log(30/3) dB	at 3m
	= 124 dBμV/m	at 3m

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.

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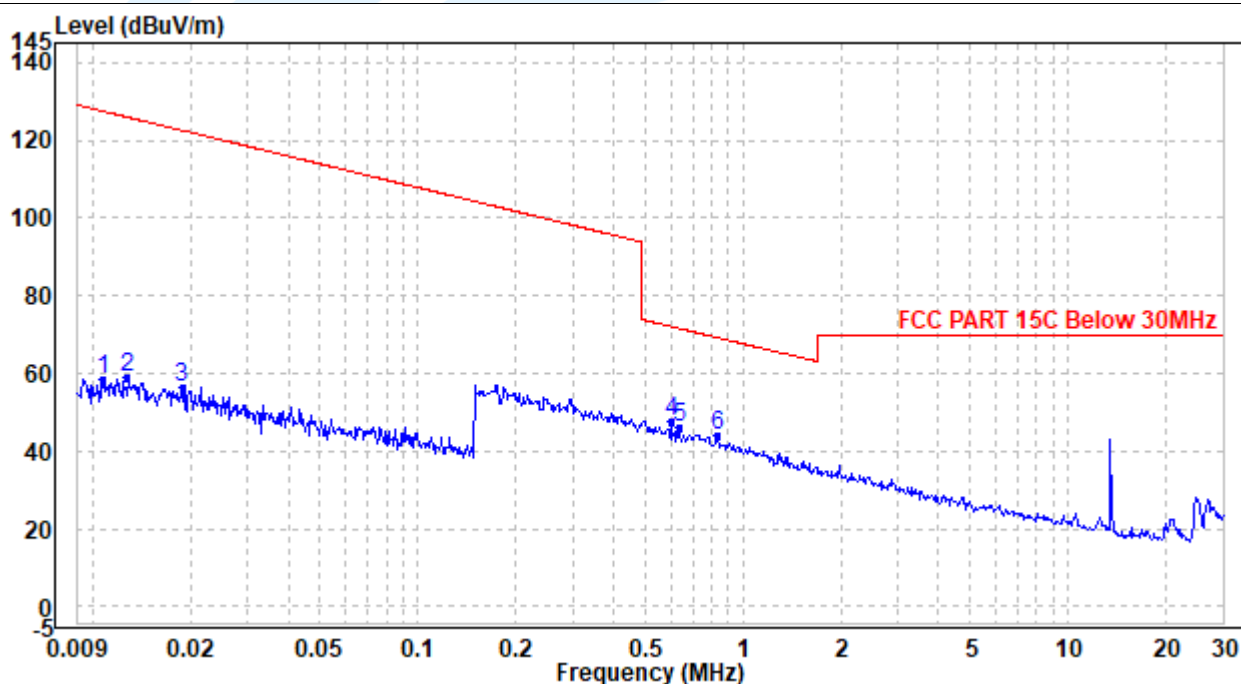
- 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions 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.
- 7) The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.(for portable and mobile devices)

Equipment Used: Refer to section 3 for details.

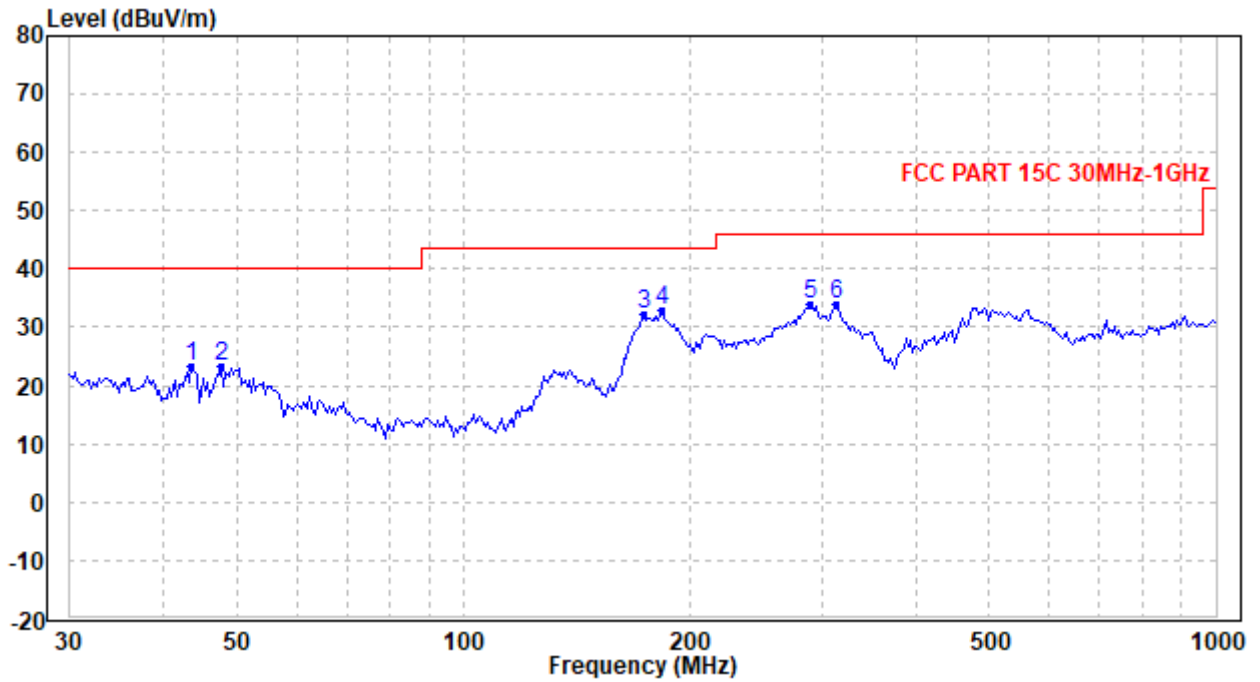
Test Result: Pass

Radiated Emission Test Data (9 kHz ~ 30 MHz):

Fundamental 13.56MHz A Type



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.011	70.13	-11.51	58.62	127.46	-68.84	Peak
2	0.013	70.96	-12.10	58.86	125.87	-67.01	Peak
3	0.019	70.12	-13.76	56.36	122.50	-66.14	Peak
4	0.603	65.92	-18.39	47.53	72.01	-24.48	Peak
5	0.636	64.17	-18.39	45.78	71.55	-25.77	Peak
6	0.838	62.23	-18.38	43.85	69.15	-25.30	Peak
7	0.011	70.13	-11.51	58.62	127.46	-68.84	Peak

Radiated Emission Test Data (30 MHz ~ 1 GHz):
Horizontal


No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	43.538	35.34	-12.09	23.25	40.00	-16.75	Peak
2	47.703	37.13	-13.71	23.42	40.00	-16.58	Peak
3	173.815	43.25	-11.11	32.14	43.50	-11.36	Peak
4	183.866	44.28	-11.50	32.78	43.50	-10.72	Peak
5	288.284	41.03	-6.96	34.07	46.00	-11.93	Peak
6	313.648	40.05	-6.12	33.93	46.00	-12.07	Peak

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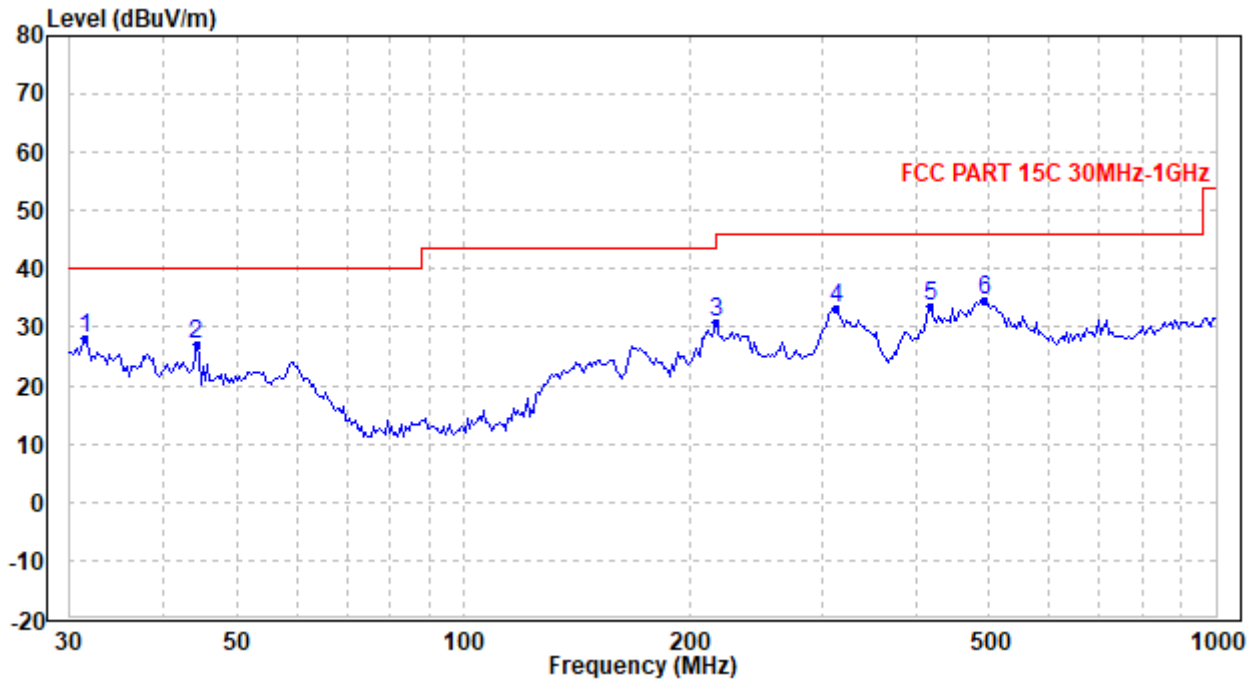
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Vertical



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.513	34.66	-6.57	28.09	40.00	-11.91	Peak
2	44.154	40.12	-13.01	27.11	40.00	-12.89	Peak
3	216.120	41.02	-10.09	30.93	46.00	-15.07	Peak
4	313.648	39.51	-6.12	33.39	46.00	-12.61	Peak
5	418.378	36.87	-3.29	33.58	46.00	-12.42	Peak
6	491.770	35.81	-1.23	34.58	46.00	-11.42	Peak

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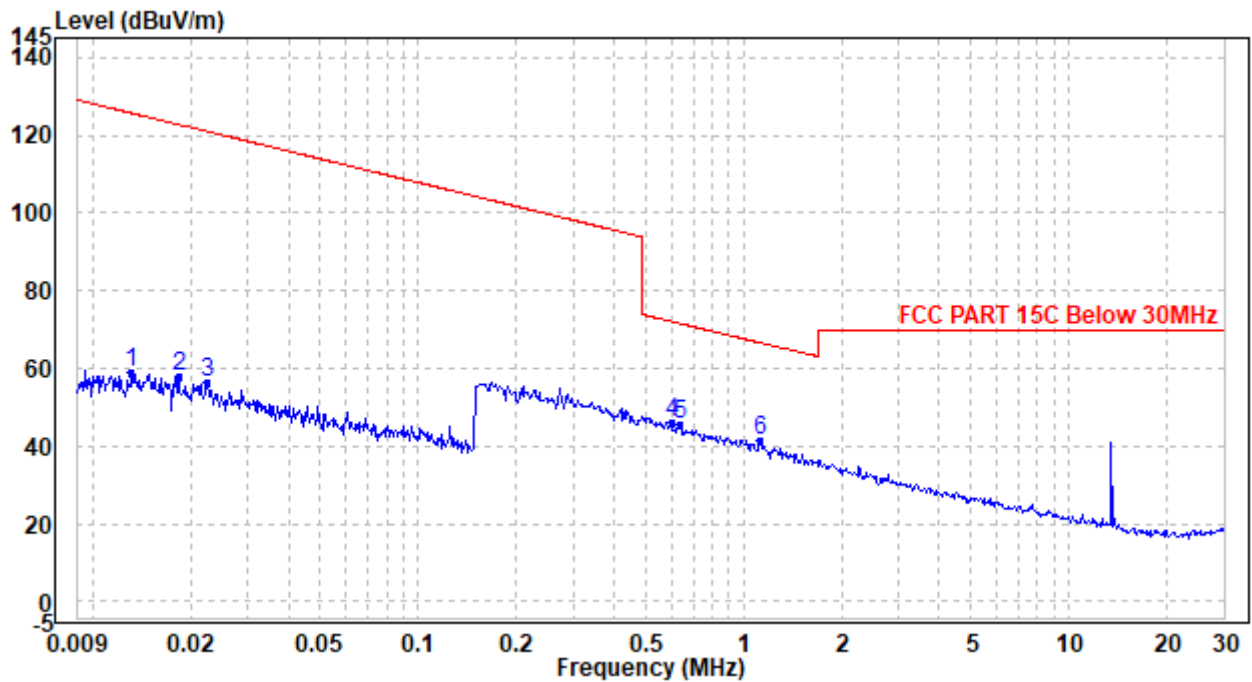
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Radiated Emission Test Data (9 kHz ~ 30 MHz):**Fundamental 13.56MHz F Type**

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.013	71.31	-12.18	59.13	125.67	-66.54	Peak
2	0.018	71.54	-13.62	57.92	122.74	-64.82	Peak
3	0.023	70.96	-14.79	56.17	120.91	-64.74	Peak
4	0.603	64.29	-18.39	45.90	72.01	-26.11	Peak
5	0.642	63.90	-18.39	45.51	71.45	-25.94	Peak
6	1.128	59.84	-18.37	41.47	66.58	-25.11	Peak
7	0.013	71.31	-12.18	59.13	125.67	-66.54	Peak

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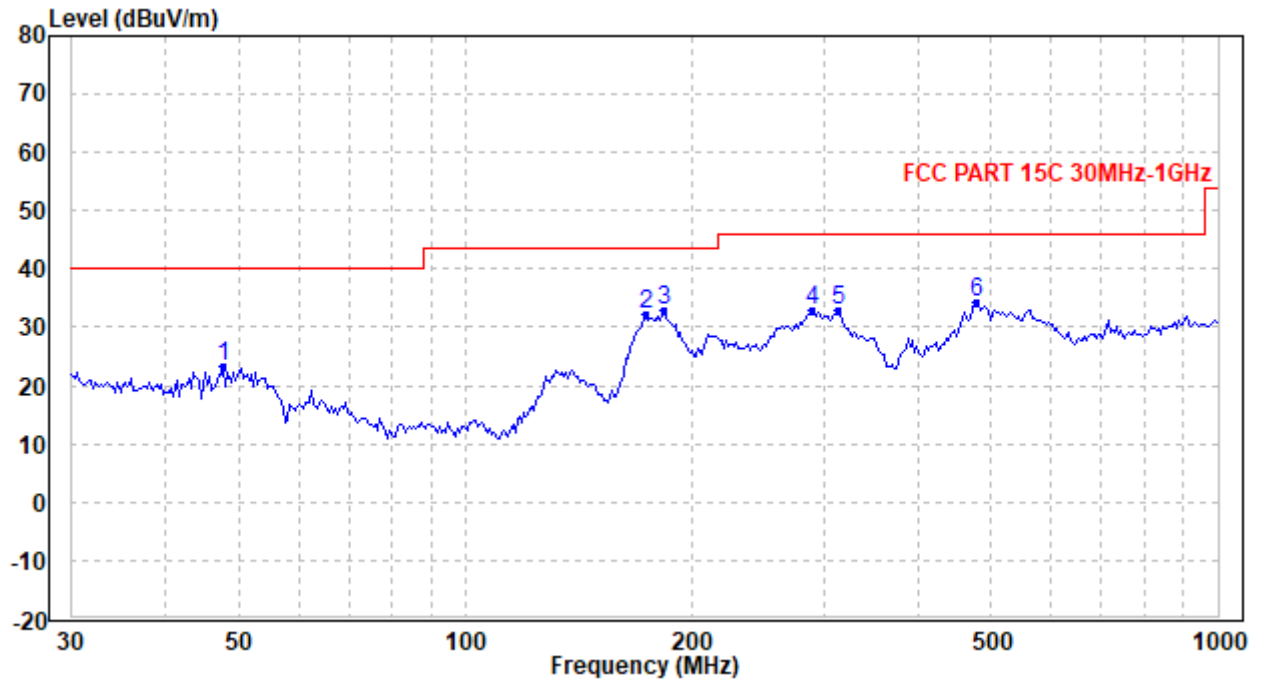
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Radiated Emission Test Data (30 MHz ~ 1 GHz):**Horizontal**

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	47.703	37.13	-13.71	23.42	40.00	-16.58	Peak
2	173.815	43.25	-11.11	32.14	43.50	-11.36	Peak
3	183.866	44.28	-11.50	32.78	43.50	-10.72	Peak
4	288.284	40.03	-6.96	33.07	46.00	-12.93	Peak
5	313.648	39.05	-6.12	32.93	46.00	-13.07	Peak
6	478.139	35.94	-1.66	34.28	46.00	-11.72	Peak

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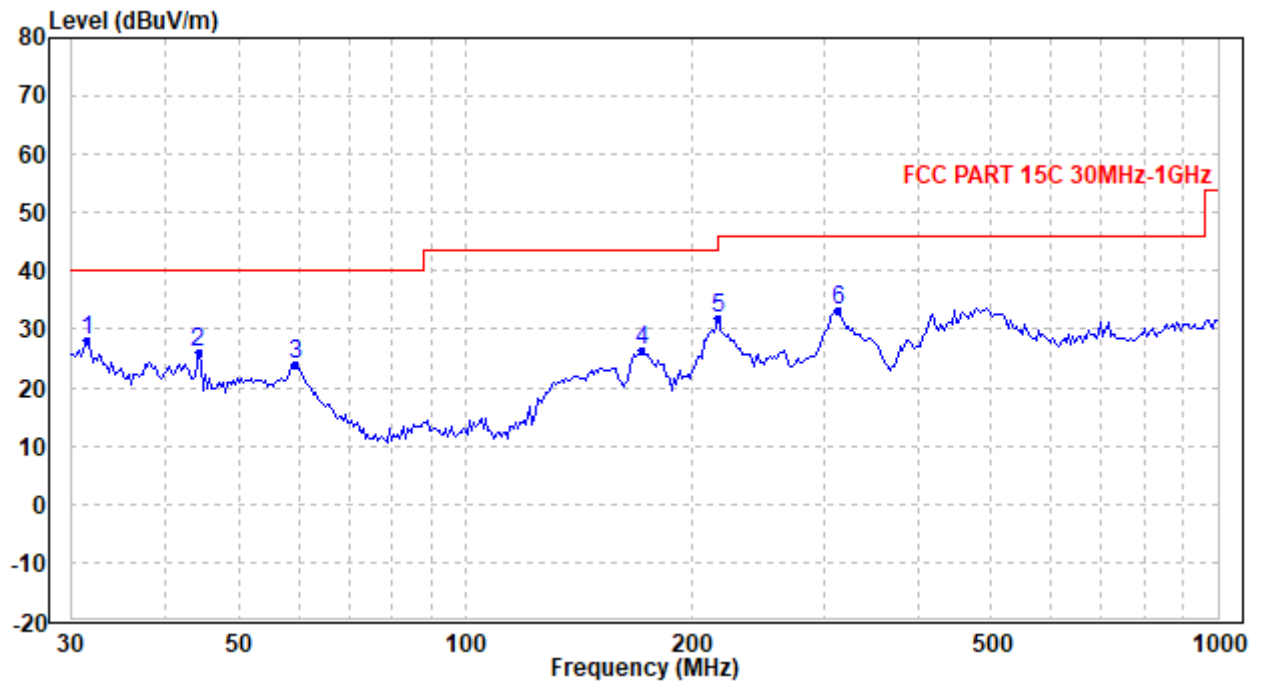
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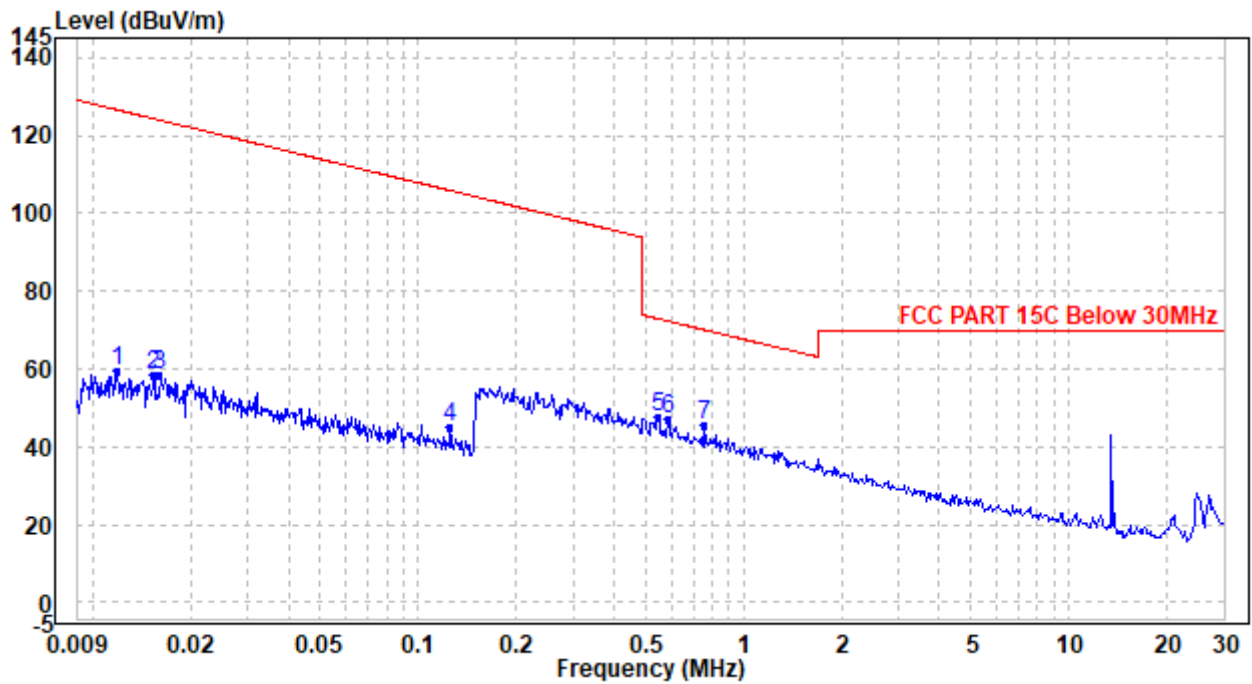
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Vertical



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.513	34.66	-6.57	28.09	40.00	-11.91	Peak
2	44.154	39.12	-13.01	26.11	40.00	-13.89	Peak
3	59.313	40.70	-16.64	24.06	40.00	-15.94	Peak
4	171.389	37.82	-11.56	26.26	43.50	-17.24	Peak
5	216.120	42.02	-10.09	31.93	46.00	-14.07	Peak
6	313.648	39.51	-6.12	33.39	46.00	-12.61	Peak

Radiated Emission Test Data (9 kHz ~ 30 MHz):
Fundamental 125kHz
Horizontal


No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.012	71.50	-11.83	59.67	126.57	-66.90	Peak
2	0.015	71.05	-12.80	58.25	124.28	-66.03	Peak
3	0.016	71.24	-12.99	58.25	123.89	-65.64	Peak
4	0.125	63.17	-18.17	45.00	105.83	-60.83	Peak
5	0.548	66.05	-18.39	47.66	72.83	-25.17	Peak
6	0.584	65.65	-18.39	47.26	72.28	-25.02	Peak
7	0.761	63.65	-18.39	45.26	69.98	-24.72	Peak

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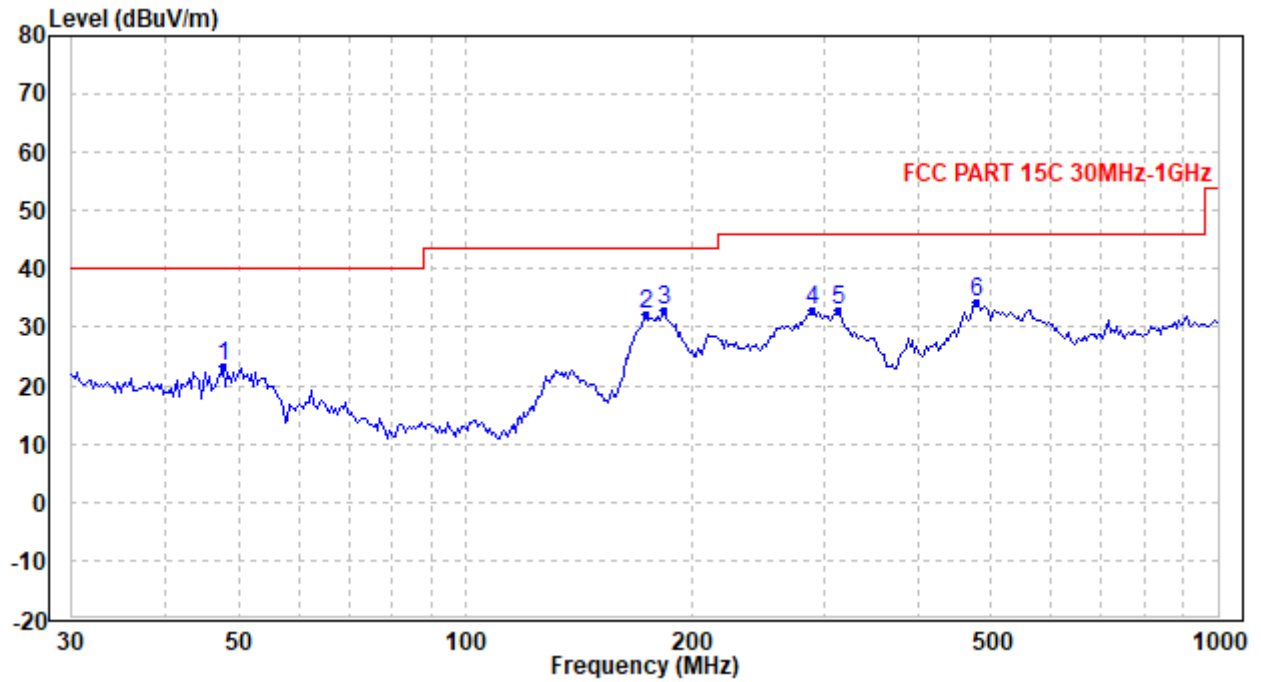
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Radiated Emission Test Data (30 MHz ~ 1 GHz):**Horizontal**

No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.703	37.13	-13.71	23.42	40.00	-16.58	Peak
2	173.815	43.25	-11.11	32.14	43.50	-11.36	Peak
3	183.866	44.28	-11.50	32.78	43.50	-10.72	Peak
4	288.284	40.03	-6.96	33.07	46.00	-12.93	Peak
5	313.648	39.05	-6.12	32.93	46.00	-13.07	Peak
6	478.139	35.94	-1.66	34.28	46.00	-11.72	Peak

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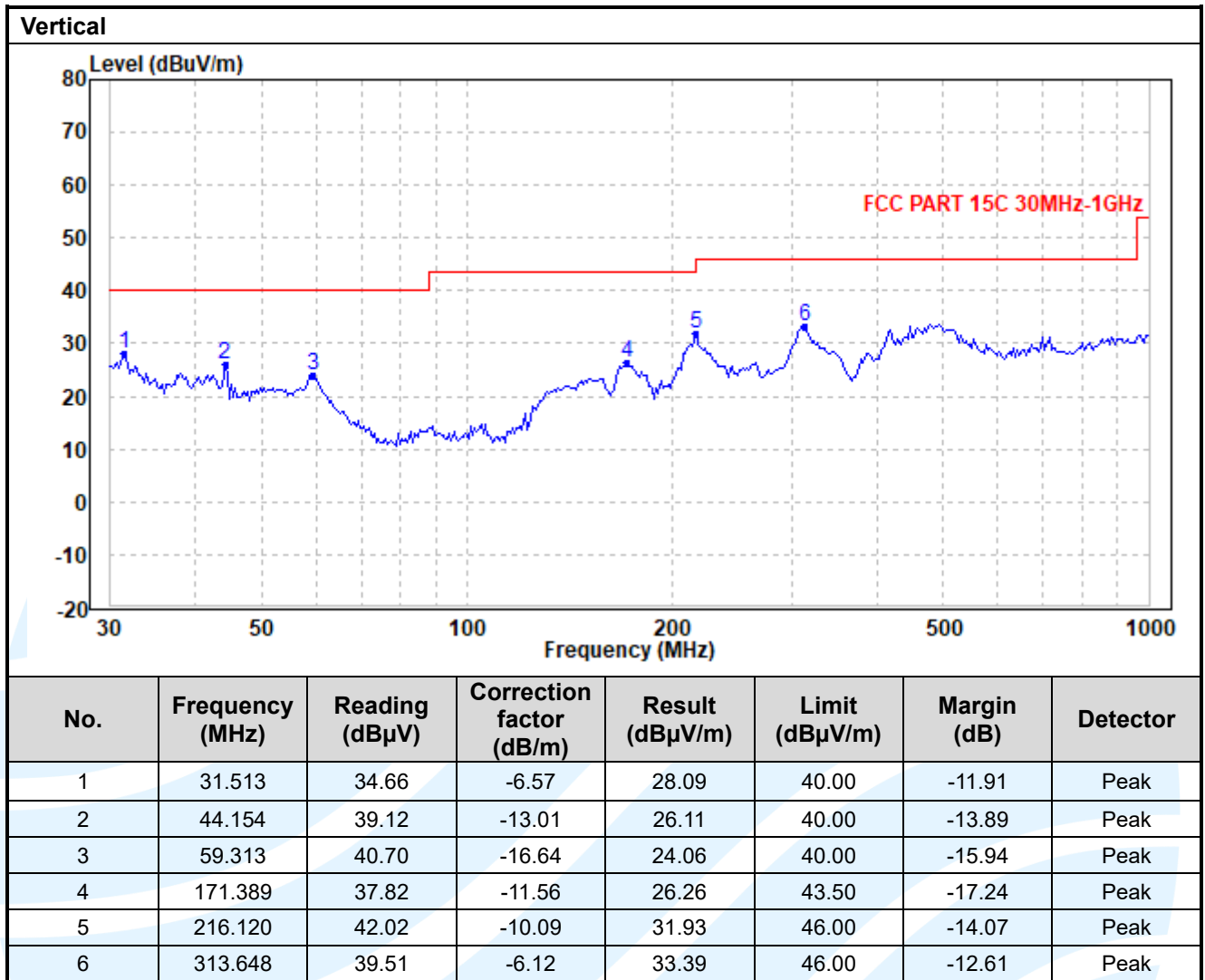
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Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit

5.5 FUNDAMENTAL FIELD STRENGTH AND EMISSION MASK 13.110 MHZ TO 14.010 MHZ

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.227(a) (b) (c) /15.205

Test Method: ANSI C63.10

Limits:

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

Remark:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. For Below 30MHz, the measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

Field strength limit for 13.56MHz	=	15848 μV/m	at 30m
	=	84 dBμV/m	at 30m
	=	84 dBμV/m + 40log(30/3) dB	at 3m
	=	124 dBμV/m	at 3m

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

As the radiation test, set the RBW=10kHz VBW=30kHz, observed the outside band of 13.110 MHz to 14.010 MHz, than mark the higher-level emission for comparing with the FCC rules.

Equipment Used: Refer to section 3 for details.

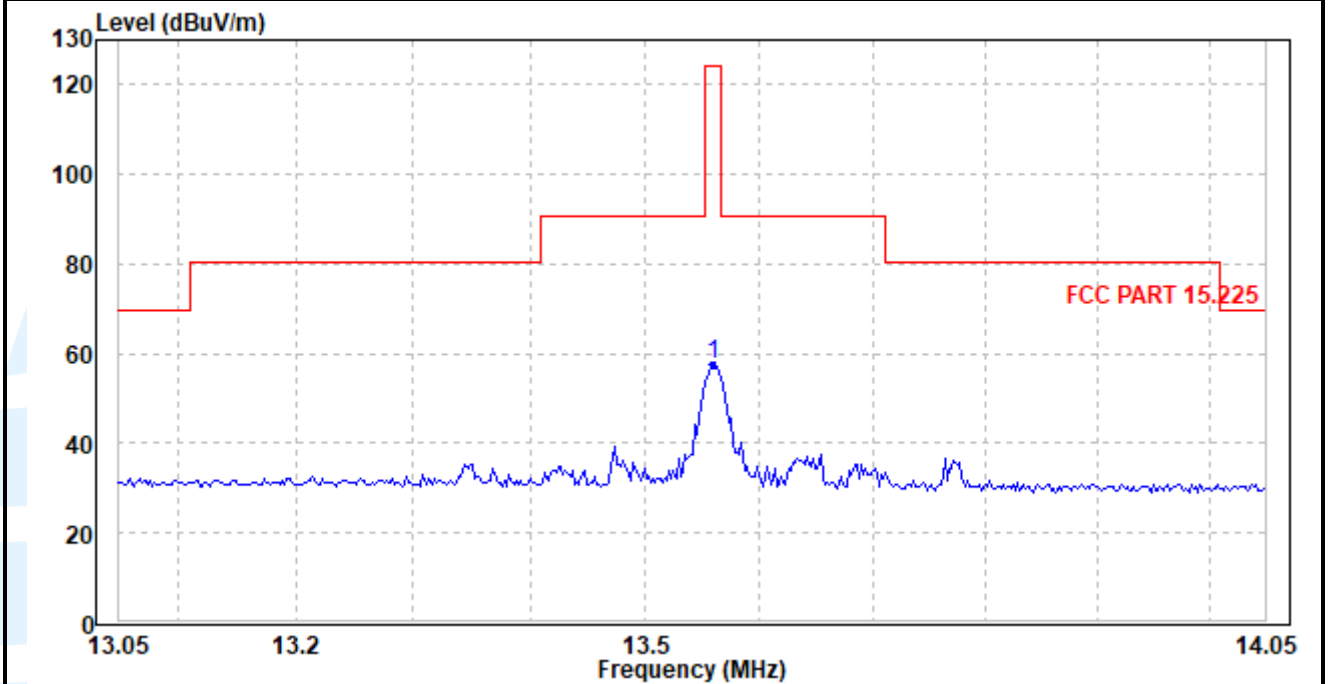
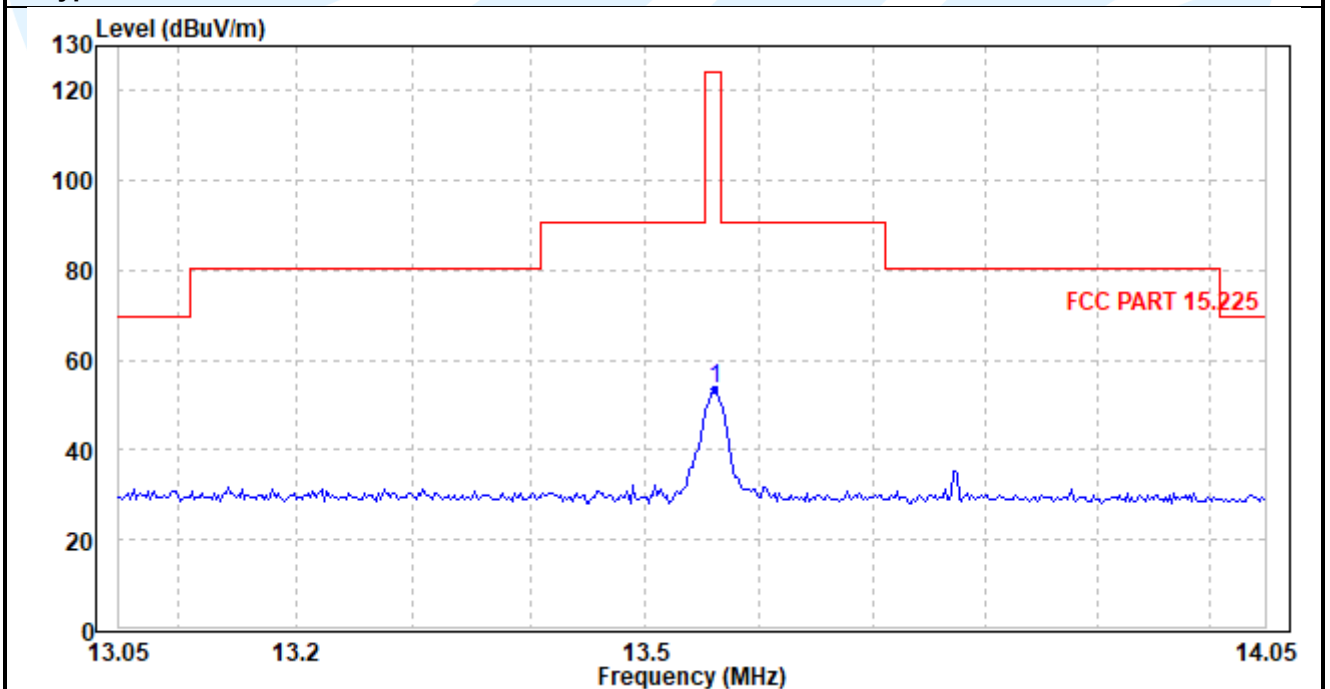
Test Result: Pass

Maximum Field Strength:

Fundamental frequency (MHz)	Detector	Result at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
13.56 A Type	Peak	57.8	124	66.2
13.56 F Type	Peak	53.48	124	70.52

Emission Mask:

The worst-case test plots as below.
A Type


F Type

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5.6 FREQUENCY TOLERANCE

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.225(e)

Test Method: ANSI C63.10-2013

Limits:

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test Setup: Refer to section 4.5.3 for details.

Test Procedures:

- 1) The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- 2) Turn the EUT on and couple its output to a spectrum analyzer.
- 3) Turn the EUT off and set the chamber to the highest temperature specified.
- 4) Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- 5) Repeat step c) and d) with the temperature chamber set to the lowest temperature.
- 6) The test chamber was allowed to stabilize at $+20$ degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

Frequency Tolerance VS Temperature and Voltage Fundamental 13.56MHz A Type									
Temp.(°C)	Voltage	Test time (minutes)							
		0	2	5	10	0	2	5	10
		Measured Frequency (MHz)				Frequency Drift (%)			
50	VN	13.56029	13.56067	13.56102	13.56106	0.0021	0.0049	0.0075	0.0078
40	VN	13.56031	13.5609	13.56035	13.56128	0.0023	0.0066	0.0026	0.0094
30	VN	13.56074	13.56117	13.5609	13.56049	0.0055	0.0086	0.0066	0.0036
20	VN	13.56089	13.56125	13.56122	13.56067	0.0066	0.0092	0.0090	0.0049
	VL	13.56091	13.56046	13.56038	13.5611	0.0067	0.0034	0.0028	0.0081
	VH	13.5606	13.56065	13.56047	13.56061	0.0044	0.0048	0.0035	0.0045
10	VN	13.56058	13.56063	13.56089	13.56101	0.0043	0.0046	0.0066	0.0074
0	VN	13.56126	13.56093	13.56035	13.5609	0.0093	0.0069	0.0026	0.0066
-10	VN	13.56113	13.56072	13.56119	13.56094	0.0083	0.0053	0.0088	0.0069
-20	VN	13.56064	13.56117	13.56093	13.56104	0.0047	0.0086	0.0069	0.0077
Limit: $\pm 0.01\%$									

Frequency Tolerance VS Temperature and Voltage Fundamental 13.56MHz F Type									
Temp.(°C)	Voltage	Test time (minutes)							
		0	2	5	10	0	2	5	10
		Measured Frequency (MHz)				Frequency Drift (%)			
50	VN	13.56028	13.56123	13.56093	13.5611	0.0021	0.0091	0.0069	0.0081
40	VN	13.56037	13.56083	13.56103	13.56106	0.0027	0.0061	0.0076	0.0078
30	VN	13.56049	13.56114	13.56076	13.56051	0.0036	0.0084	0.0056	0.0038
20	VN	13.56054	13.56033	13.56072	13.56083	0.0040	0.0024	0.0053	0.0061
	VL	13.56108	13.56048	13.56049	13.5605	0.0080	0.0035	0.0036	0.0037
	VH	13.56076	13.56061	13.56064	13.56072	0.0056	0.0045	0.0047	0.0053
10	VN	13.5612	13.56115	13.56028	13.56117	0.0088	0.0085	0.0021	0.0086
0	VN	13.56034	13.5611	13.56094	13.56109	0.0025	0.0081	0.0069	0.0080
-10	VN	13.5608	13.56121	13.56079	13.56051	0.0059	0.0089	0.0058	0.0038
-20	VN	13.56093	13.56033	13.56044	13.56036	0.0069	0.0024	0.0032	0.0027
Limit: ±0.01 %									

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5.7 CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.207

Test Method: ANSI C63.10-2013 Section 6.2

Limits:

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.5.2 for details.

Test Procedures:

Test frequency range :150KHz-30MHz

- 7) The mains terminal disturbance voltage test was conducted in a shielded room.
- 8) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω 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.
- 9) 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,
- 10) 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.
- 11) 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.

Equipment Used: Refer to section 3 for details.

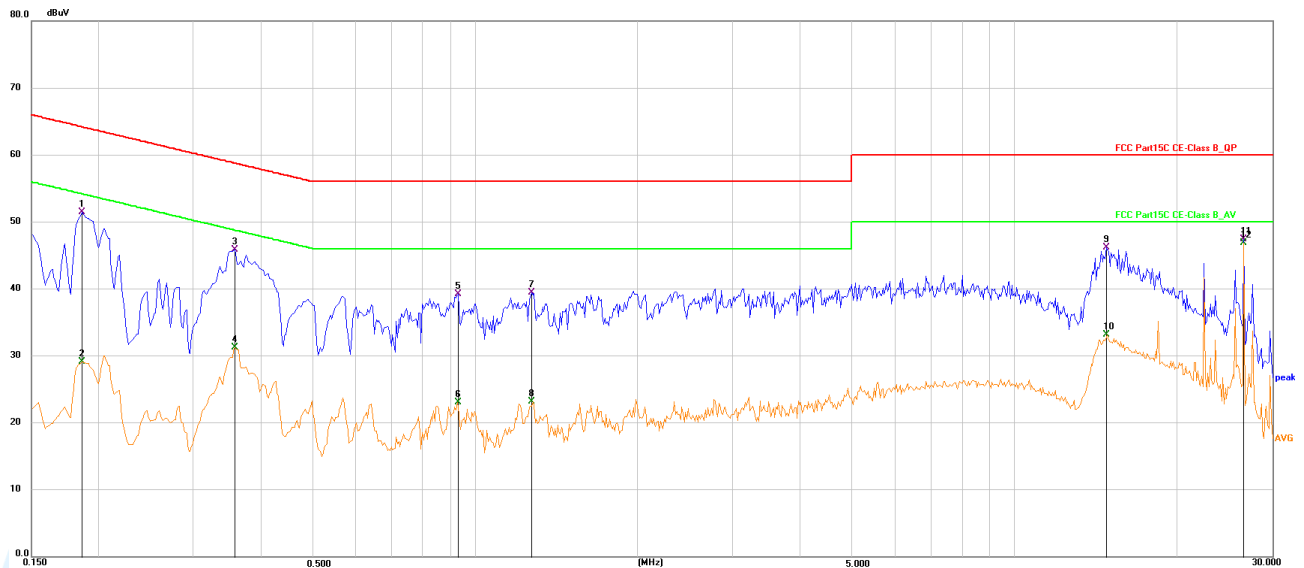
Test Result: Pass

The worst measurement data as follows:

Quasi Peak and Average:

Mode: Fundamental 13.56MHz A Type

Live Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor(dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1861	41.61	9.79	51.40	64.21	-12.81	QP
2	0.1861	19.30	9.79	29.09	54.21	-25.12	AVG
3	0.3572	36.04	9.77	45.81	58.80	-12.99	QP
4	0.3572	21.45	9.77	31.22	48.80	-17.58	AVG
5	0.9284	29.53	9.71	39.24	56.00	-16.76	QP
6	0.9284	13.34	9.71	23.05	46.00	-22.95	AVG
7	1.2750	29.76	9.71	39.47	56.00	-16.53	QP
8	1.2750	13.47	9.71	23.18	46.00	-22.82	AVG
9	14.7794	36.34	9.80	46.14	60.00	-13.86	QP
10	14.7794	23.33	9.80	33.13	50.00	-16.87	AVG
11	26.6233	37.48	9.89	47.37	60.00	-12.63	QP
12	26.6233	36.93	9.89	46.82	50.00	-3.18	AVG

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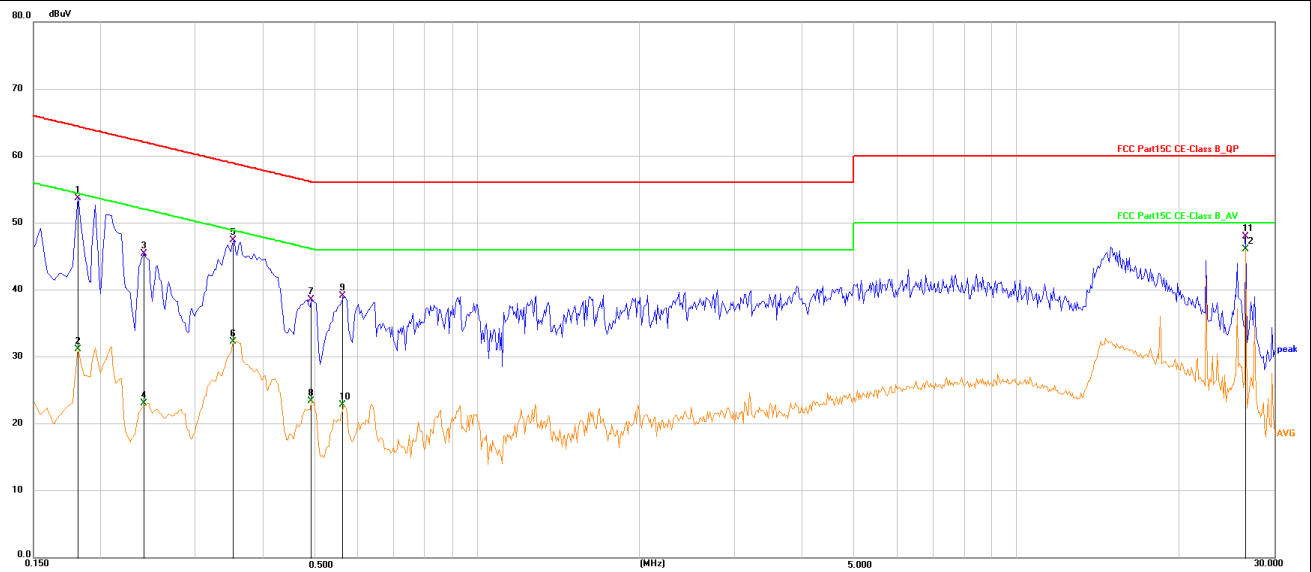
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Neutral Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor(dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1814	43.92	9.78	53.70	64.42	-10.72	QP
2	0.1814	21.38	9.78	31.16	54.42	-23.26	AVG
3	0.2403	35.62	9.78	45.40	62.09	-16.69	QP
4	0.2403	13.30	9.78	23.08	52.09	-29.01	AVG
5	0.3537	37.63	9.75	47.38	58.88	-11.50	QP
6	0.3537	22.51	9.75	32.26	48.88	-16.62	AVG
7	0.4914	28.72	9.77	38.49	56.14	-17.65	QP
8	0.4914	13.60	9.77	23.37	46.14	-22.77	AVG
9	0.5639	29.38	9.75	39.13	56.00	-16.87	QP
10	0.5639	13.10	9.75	22.85	46.00	-23.15	AVG
11	26.5580	38.11	9.90	48.01	60.00	-11.99	QP
12	26.5580	36.19	9.90	46.09	50.00	-3.91	AVG

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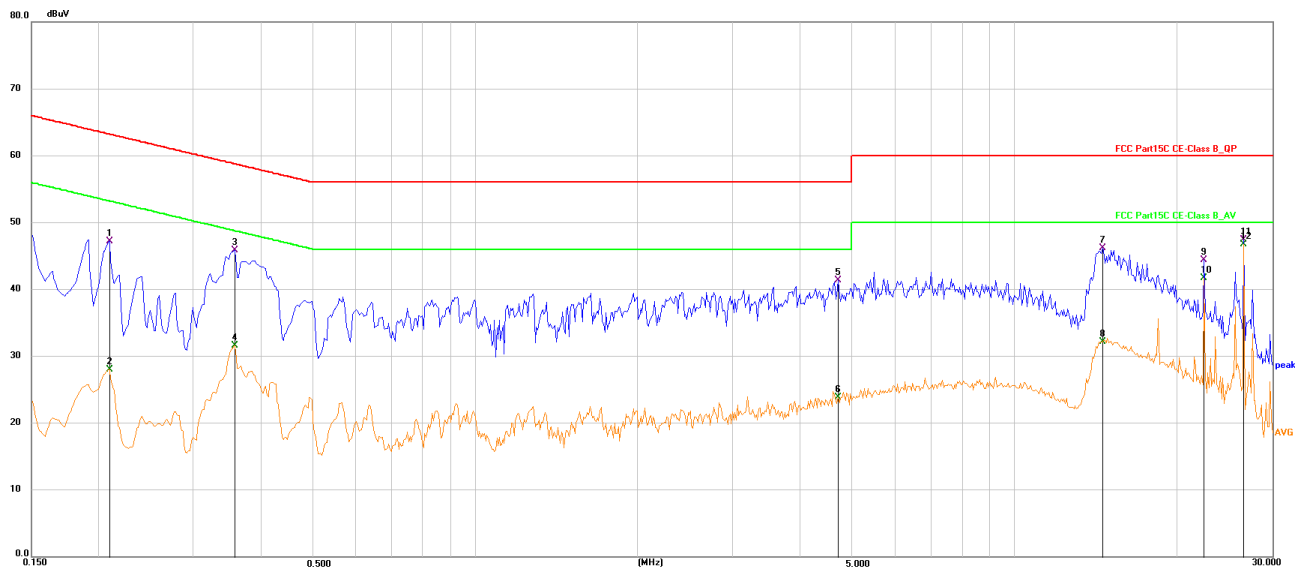
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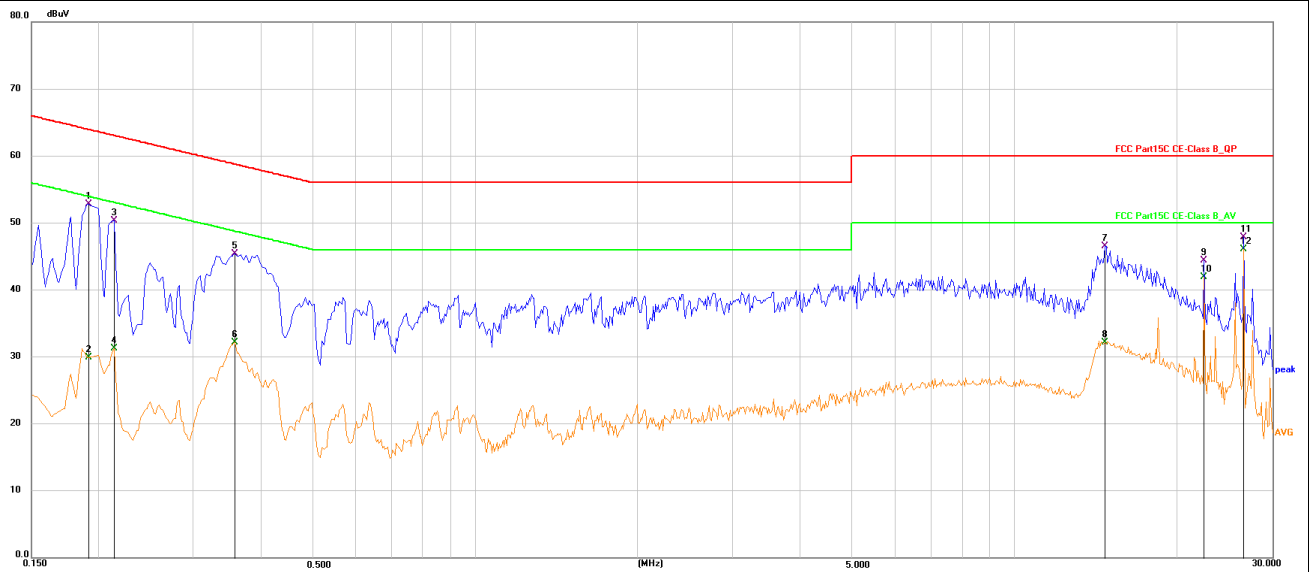
Quasi Peak and Average:
Mode: Fundamental 13.56MHz F Type

Live Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor(dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.2094	37.35	9.80	47.15	63.23	-16.08	QP
2	0.2094	18.24	9.80	28.04	53.23	-25.19	AVG
3	0.3577	36.07	9.77	45.84	58.78	-12.94	QP
4	0.3577	21.77	9.77	31.54	48.78	-17.24	AVG
5	4.6964	31.57	9.75	41.32	56.00	-14.68	QP
6	4.6964	14.13	9.75	23.88	46.00	-22.12	AVG
7	14.5171	36.34	9.80	46.14	60.00	-13.86	QP
8	14.5171	22.36	9.80	32.16	50.00	-17.84	AVG
9	22.4163	34.49	9.91	44.40	60.00	-15.60	QP
10	22.4163	31.73	9.91	41.64	50.00	-8.36	AVG
11	26.5581	37.57	9.89	47.46	60.00	-12.54	QP
12	26.5581	36.86	9.89	46.75	50.00	-3.25	AVG

Neutral Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor(dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1905	43.02	9.77	52.79	64.01	-11.22	QP
2	0.1905	20.14	9.77	29.91	54.01	-24.10	AVG
3	0.2130	40.57	9.77	50.34	63.09	-12.75	QP
4	0.2130	21.52	9.77	31.29	53.09	-21.80	AVG
5	0.3570	35.62	9.76	45.38	58.80	-13.42	QP
6	0.3570	22.41	9.76	32.17	48.80	-16.63	AVG
7	14.7480	36.76	9.77	46.53	60.00	-13.47	QP
8	14.7480	22.32	9.77	32.09	50.00	-17.91	AVG
9	22.5285	34.51	9.88	44.39	60.00	-15.61	QP
10	22.5285	31.98	9.88	41.86	50.00	-8.14	AVG
11	26.6234	37.96	9.90	47.86	60.00	-12.14	QP
12	26.6234	36.17	9.90	46.07	50.00	-3.93	AVG

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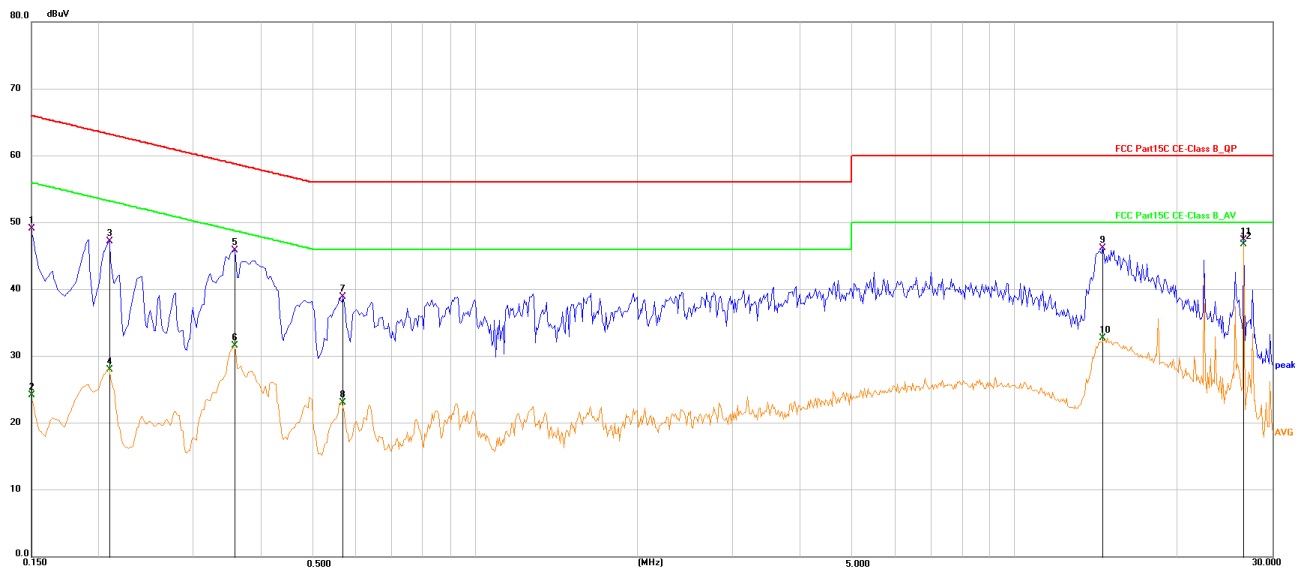
E-mail: info@uttlab.com

<http://www.uttlab.com>

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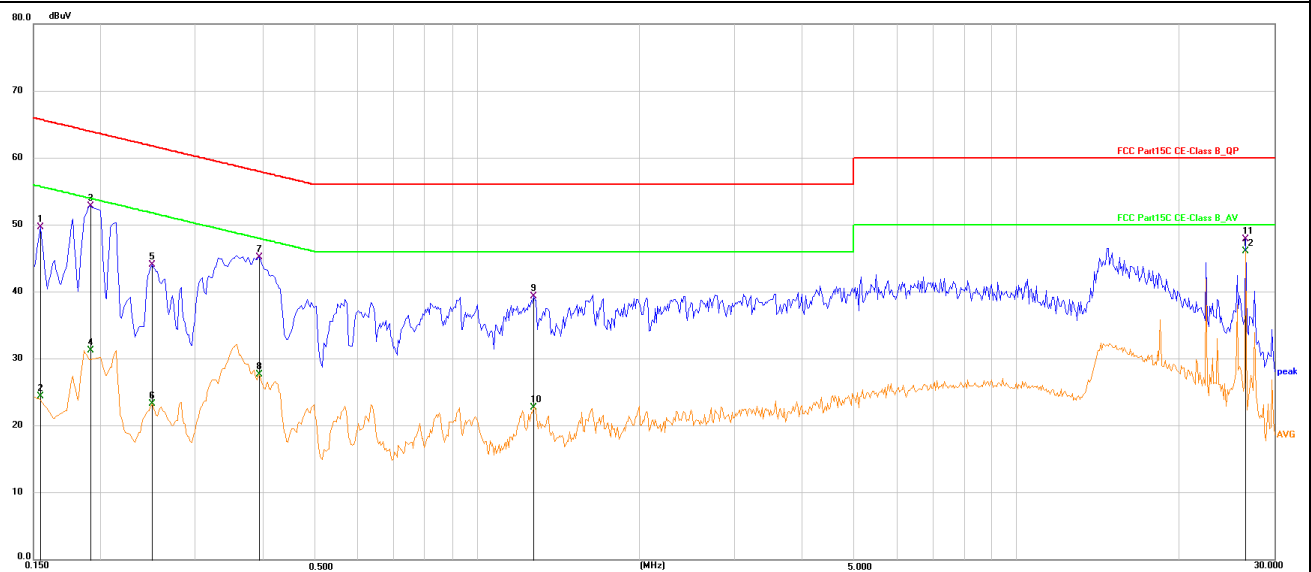
**Quasi Peak and Average:
Fundamental 125kHz**

Live Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor(dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1500	39.18	9.88	49.06	66.00	-16.94	QP
2	0.1500	14.30	9.88	24.18	56.00	-31.82	AVG
3	0.2094	37.35	9.80	47.15	63.23	-16.08	QP
4	0.2094	18.24	9.80	28.04	53.23	-25.19	AVG
5	0.3574	36.07	9.77	45.84	58.79	-12.95	QP
6	0.3574	21.77	9.77	31.54	48.79	-17.25	AVG
7	0.5670	29.09	9.79	38.88	56.00	-17.12	QP
8	0.5670	13.24	9.79	23.03	46.00	-22.97	AVG
9	14.5170	36.34	9.80	46.14	60.00	-13.86	QP
10	14.5170	22.95	9.80	32.75	50.00	-17.25	AVG
11	26.5580	37.57	9.89	47.46	60.00	-12.54	QP
12	26.5580	36.86	9.89	46.75	50.00	-3.25	AVG

Neutral Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor(dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1544	39.86	9.82	49.68	65.76	-16.08	QP
2	0.1544	14.59	9.82	24.41	55.76	-31.35	AVG
3	0.1905	43.02	9.77	52.79	64.01	-11.22	QP
4	0.1905	21.49	9.77	31.26	54.01	-22.75	AVG
5	0.2490	34.24	9.79	44.03	61.79	-17.76	QP
6	0.2490	13.53	9.79	23.32	51.79	-28.47	AVG
7	0.3930	35.39	9.78	45.17	58.00	-12.83	QP
8	0.3930	17.90	9.78	27.68	48.00	-20.32	AVG
9	1.2702	29.58	9.75	39.33	56.00	-16.67	QP
10	1.2702	12.95	9.75	22.70	46.00	-23.30	AVG
11	26.6234	37.96	9.90	47.86	60.00	-12.14	QP
12	26.6234	36.17	9.90	46.07	50.00	-3.93	AVG

Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
