



CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
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TEST REPORT

Report No. : CTC20201488E15
FCC ID. : 2AXWR-LT-ZENTRON
Applicant. : LamasaTech Ltd.
Address. : Number33, North Tyne Industrial Estate, NE12 9SZ, United Kingdom
Manufacturer. : LamasaTech Ltd.
Address. : Number33, North Tyne Industrial Estate, NE12 9SZ, United Kingdom
Product Name : LT-Zentron
Trade Mark. : Lamasa
Model/Type reference : LT-Zentron8
Listed Model(s) : Please see the page 7
Standard : FCC CFR Title 47 Part 15 Subpart C
Date of receipt of test sample : Oct. 13, 2020
Date of testing : Oct. 13, 2020 to Nov. 12, 2020
Date of issue : Nov. 16, 2020
Result : PASS

Compiled by:
(Printed name + signature) Lucy Lan *Lucy Lan*

Supervised by:
(Printed name + signature) Miller Ma *Miller Ma*

Approved by:
(Printed name + signature) Walter Chen *Walter Chen*

Testing Laboratory Name : CTC Laboratories, Inc.
Address : 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15C](#): Intentional Radiators

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report Version

Revised No.	Date of issue	Description
01	Nov. 06, 2020	Original

1.3. Test Description

FCC Part 15 Subpart C			
Test Item	Standard Section	Result	Test Engineer
Conducted Emission	15.207	Pass	Lucy Lan
Radiated Emissions	15.209	Pass	Lucy Lan
Field Strength of the Fundamental	15.209	Pass	Lucy Lan
Occupied Bandwidth and 20dB Bandwidth	15.215	Pass	Lucy Lan
Antenna requirement	15.203	Pass	Lucy Lan

Note: N/A: Not applicable.

The measurement uncertainty is not included in the test result.



1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

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

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug. 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.



Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	25°C
Relative Humidity:	40%RH
Air Pressure:	101kPa

1.7. EUT Operation State

The EUT has been tested under typical operating condition. The Applicant provides software to control the EUT for staying in continuous transmitting mode for testing.



1. GENERAL INFORMATION

1.1. Client Information

Applicant:	LamasaTech Ltd.
Address:	Number33, North Tyne Industrial Estate, NE12 9SZ, United Kingdom
Manufacturer:	LamasaTech Ltd.
Address:	Number33, North Tyne Industrial Estate, NE12 9SZ, United Kingdom

1.2. General Description of EUT

Product Name:	LT-Zentron
Trade Mark:	Lamasa
Model/Type reference:	LT-Zentron8
Listed Model(s):	LD-AITemp-RTWALL, LD-AITemp-WallDevice, LD-AITemp-Device, LD-AITemp-DMKiosk, LD-AITemp-FMKiosk, LT-Zentron8-T-RTWALL, LT-Zentron8-T, LT-Zentron8-T-DESK, LT-Zentron8-T-FLOOR, LT-Zentron8-RTWALL, LT-Zentron8-DESK, LT-Zentron8-FLOOR, LT-Zentron15-RTWALL, LT-Zentron15, LT-Zentron15-DESK, LT-Zentron15-FLOOR, LT-Zentron15-T-RTWALL, LT-Zentron15-T, LT-Zentron15-T-DESK, LT-Zentron15-T-FLOOR
Model Difference:	Only the naming method differs between models.(LD-AITemp-RTWALL, LD-AITemp-WallDevice, LD-AITemp-Device, LD-AITemp-DMKiosk, LD-AITemp-FMKiosk. The above five models have no QR code scanning function)
Power supply:	12V=3A form AC/DC Adapter
Hardware version:	N/A
Software version:	N/A
RF Parameter	
Operation frequency:	125kHz, 134.2kHz
Antenna type:	PCB Antenna

1.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
/	/	/	/
Cable Information			
Name	Shielded Type	Ferrite Core	Length
/	/	/	/



1.4. Measurement Instruments List

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 27, 2020
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2021
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 27, 2020
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 27, 2020
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 27, 2020
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 27, 2020
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 27, 2020
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 27, 2020
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 27, 2020
10	Climate Chamber	ESPEC	MT3065	/	Dec. 27, 2020
11	300328 v2.1.1 test system	TONSCEND	v2.6	/	/
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 27, 2020
2	High pass filter	micro-tranics	HPM50111	142	Dec. 27, 2020
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 27, 2020
4	Ultra-Broadband Antenna	SchwarzBeck	BBHA9170	25841	Dec. 27, 2020
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 27, 2020
6	Loop Antenna	ETS	6507	146	Dec. 27, 2020
7	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 27, 2020
8	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 27, 2020
9	Pre-Amplifier	HP	8447D	1937A03050	Dec. 27, 2020
10	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 27, 2020
11	Antenna Mast	UC	UC3000	N/A	N/A
12	Turn Table	UC	UC3000	N/A	N/A
13	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 27, 2020
14	Cable Above 1GHz	Hubersuhner	SUCOFLEX102	DA1580	Dec. 27, 2020
15	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 27, 2020
16	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 27, 2020
17	RF Connection Cable	Chengdu E-Microwave	---	---	Dec. 27, 2020
18	High pass filter	Compliance Direction systems	BSU-6	34202	Dec. 27, 2020
19	Attenuator	Chengdu E-Microwave	EMCAXX-10RNZ-3	---	Dec. 27, 2020

Note:1. The Cal. Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.

2. TEST ITEM AND RESULTS

2.1. Conducted Emission

Limit

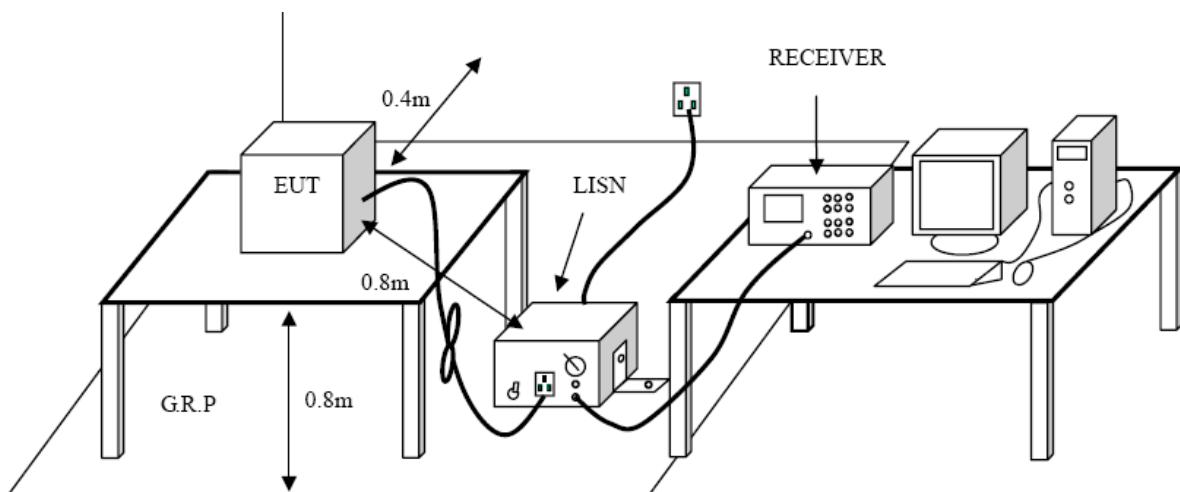
FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Configuration

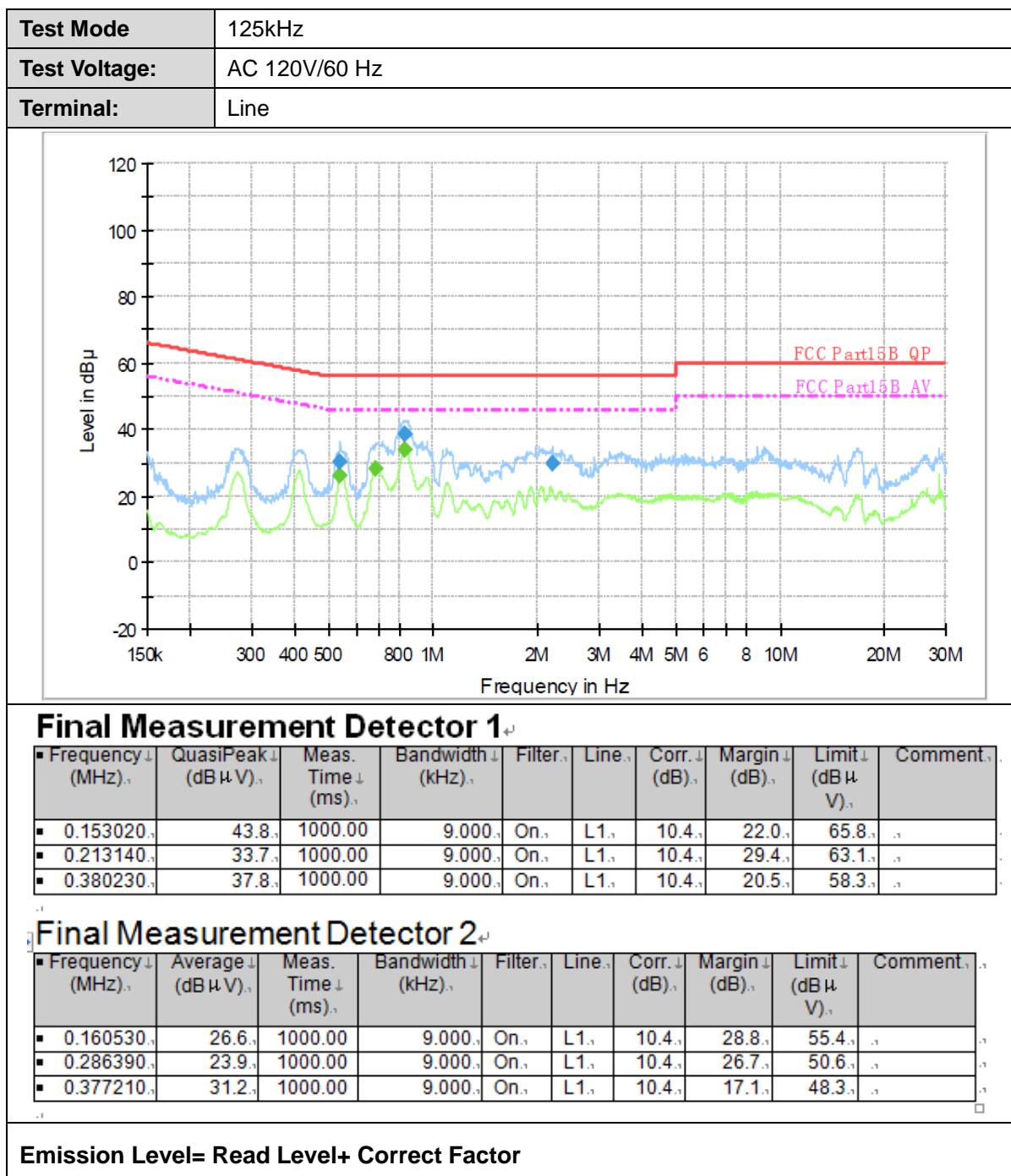


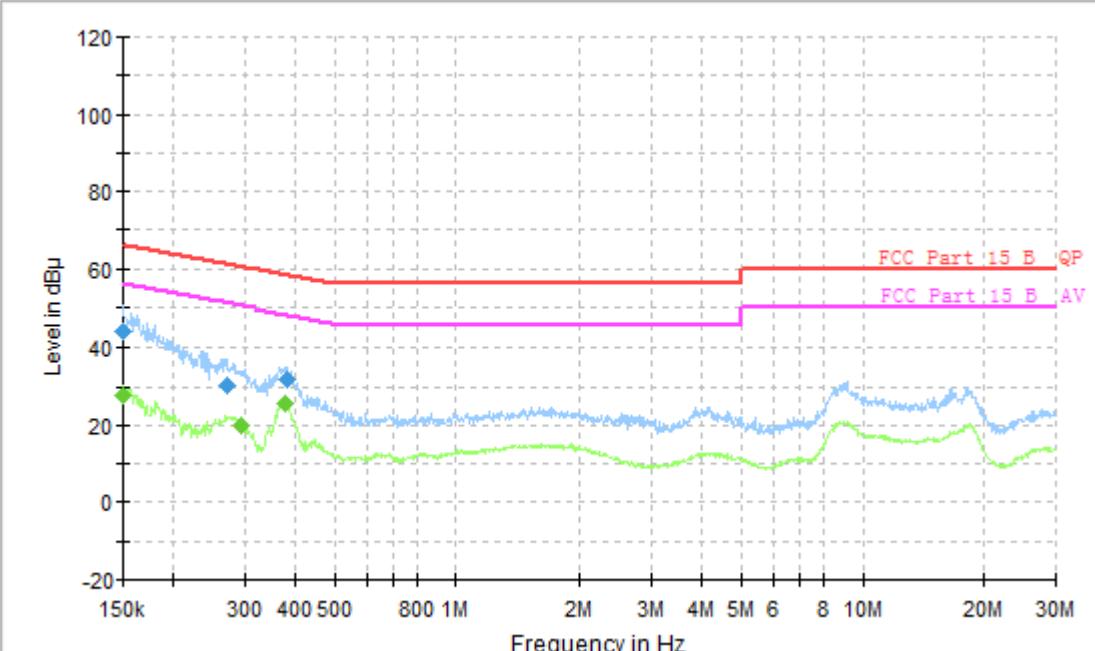
Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment.
The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

Test Mode:

Please refer to the clause 1.7.

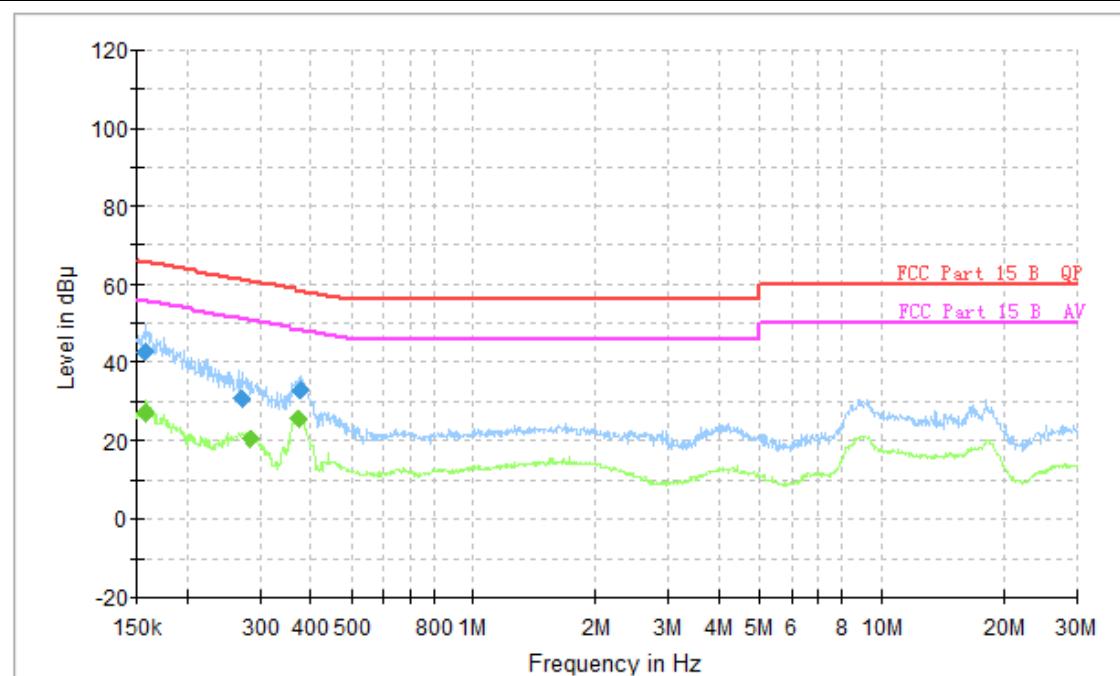
Test Results
Remark: Both high and low voltages have been tested to show only the worst low voltages test data


Test Mode	125kHz																																								
Test Voltage:	AC 120V/60 Hz																																								
Terminal:	Neutral																																								
																																									
Final Measurement Detector 1 <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>QuasiPeak (dB μV)</th> <th>Meas. Time (ms)</th> <th>Bandwidth (kHz)</th> <th>Filter</th> <th>Line</th> <th>Corr. (dB)</th> <th>Margin (dB)</th> <th>Limit (dB μV)</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0.150000</td> <td>44.5</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>10.7</td> <td>21.5</td> <td>66.0</td> <td></td> </tr> <tr> <td>0.270820</td> <td>30.4</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>10.7</td> <td>30.7</td> <td>61.1</td> <td></td> </tr> <tr> <td>0.383280</td> <td>32.0</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>10.7</td> <td>26.2</td> <td>58.2</td> <td></td> </tr> </tbody> </table>		Frequency (MHz)	QuasiPeak (dB μV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)	Comment	0.150000	44.5	1000.00	9.000	On	N	10.7	21.5	66.0		0.270820	30.4	1000.00	9.000	On	N	10.7	30.7	61.1		0.383280	32.0	1000.00	9.000	On	N	10.7	26.2	58.2	
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Final Measurement Detector 2 <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Average (dB μV)</th> <th>Meas. Time (ms)</th> <th>Bandwidth (kHz)</th> <th>Filter</th> <th>Line</th> <th>Corr. (dB)</th> <th>Margin (dB)</th> <th>Limit (dB μV)</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0.150600</td> <td>27.9</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>10.7</td> <td>28.1</td> <td>56.0</td> <td></td> </tr> <tr> <td>0.292160</td> <td>20.1</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>10.7</td> <td>30.4</td> <td>50.5</td> <td></td> </tr> <tr> <td>0.375700</td> <td>25.7</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>10.7</td> <td>22.7</td> <td>48.4</td> <td></td> </tr> </tbody> </table>		Frequency (MHz)	Average (dB μV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)	Comment	0.150600	27.9	1000.00	9.000	On	N	10.7	28.1	56.0		0.292160	20.1	1000.00	9.000	On	N	10.7	30.4	50.5		0.375700	25.7	1000.00	9.000	On	N	10.7	22.7	48.4	
Frequency (MHz)	Average (dB μV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)	Comment																																
0.150600	27.9	1000.00	9.000	On	N	10.7	28.1	56.0																																	
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0.375700	25.7	1000.00	9.000	On	N	10.7	22.7	48.4																																	
Emission Level= Read Level+ Correct Factor																																									



Test Mode	134.2kHz								
Test Voltage:	AC 120V/60 Hz								
Terminal:	Line								
Final Measurement Detector 1									
■ Frequency ↓ (MHz)	QuasiPeak ↓ (dB μV)	Meas. Time ↓ (ms)	Bandwidth ↓ (kHz)	Filter	Line	Corr. ↓ (dB)	Margin ↓ (dB)	Limit ↓ (dB μV)	Comment
■ 0.152410	42.6	1000.00	9.000	On	L1	10.4	23.3	65.9	
■ 0.275180	31.8	1000.00	9.000	On	L1	10.4	29.2	61.0	
■ 0.381750	36.7	1000.00	9.000	On	L1	10.4	21.5	58.2	
Final Measurement Detector 2									
■ Frequency ↓ (MHz)	Average ↓ (dB μV)	Meas. Time ↓ (ms)	Bandwidth ↓ (kHz)	Filter	Line	Corr. ↓ (dB)	Margin ↓ (dB)	Limit ↓ (dB μV)	Comment
■ 0.154250	25.9	1000.00	9.000	On	L1	10.4	29.9	55.8	
■ 0.380230	31.3	1000.00	9.000	On	L1	10.4	17.0	48.3	
■ 18.270400	19.6	1000.00	9.000	On	L1	10.8	30.4	50.0	
Emission Level= Read Level+ Correct Factor									

Test Mode	134.2kHz
Test Voltage:	AC 120V/60 Hz
Terminal:	Neutral



Final Measurement Detector 1

Frequency ↓ (MHz),	QuasiPeak ↓ (dB μ V),	Meas. Time ↓ (ms),	Bandwidth ↓ (kHz),	Filter,,	Line,,	Corr. ↓ (dB),	Margin ↓ (dB),	Limit ↓ (dB μ V),	Comment,,
0.157360,,	42.8,,	1000.00,,	9.000,,	On,,	N,,	10.7,,	22.8,,	65.6,,	..,
0.269740,,	30.8,,	1000.00,,	9.000,,	On,,	N,,	10.7,,	30.3,,	61.1,,	..,
0.378720,,	32.7,,	1000.00,,	9.000,,	On,,	N,,	10.7,,	25.6,,	58.3,,	..,

Final Measurement Detector 2

Frequency ↓ (MHz),	Average ↓ (dB μ V),	Meas. Time ↓ (ms),	Bandwidth ↓ (kHz),	Filter,,	Line,,	Corr. ↓ (dB),	Margin ↓ (dB),	Limit ↓ (dB μ V),	Comment,,
0.157360,,	27.1,,	1000.00,,	9.000,,	On,,	N,,	10.7,,	28.5,,	55.6,,	..,
0.282980,,	20.6,,	1000.00,,	9.000,,	On,,	N,,	10.7,,	30.1,,	50.7,,	..,
0.374210,,	25.4,,	1000.00,,	9.000,,	On,,	N,,	10.7,,	23.0,,	48.4,,	..,

Emission Level= Read Level+ Correct Factor

2.2. Radiated Emission

FCC Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/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

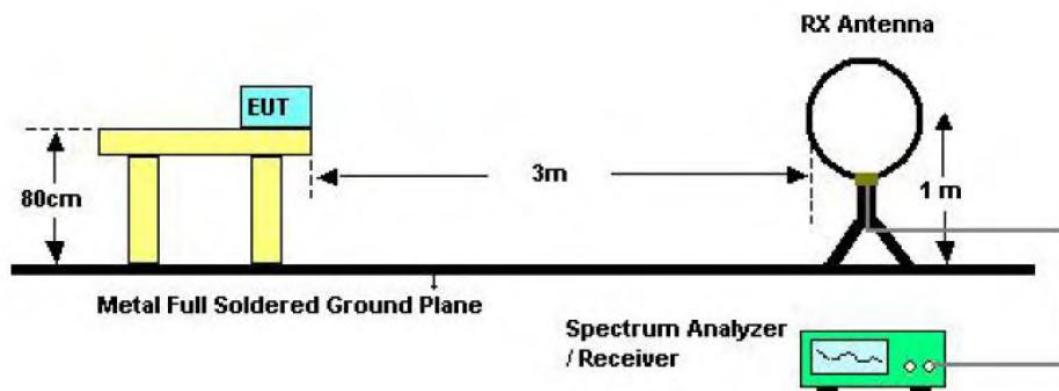
Radiated Emission Limit (Above 1000MHz)

Frequency (MHz)	Distance Meters(at 3m)	
	Peak	Average
Above 1000	74	54

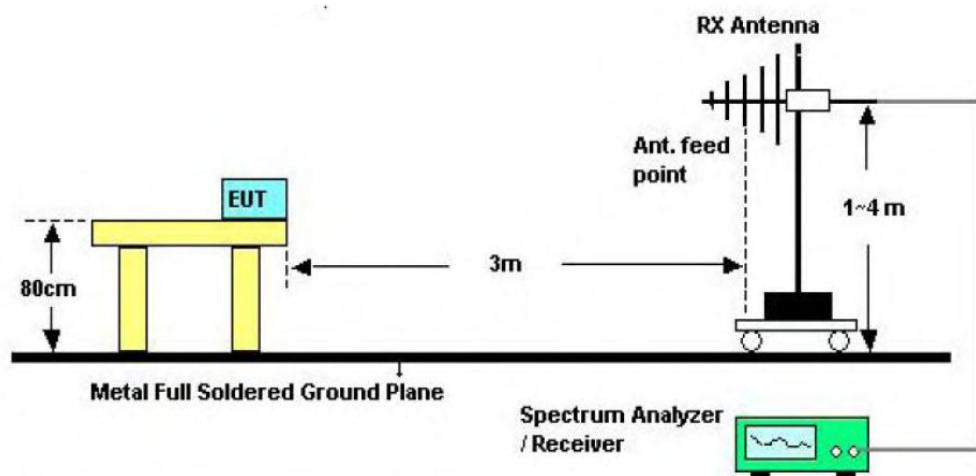
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

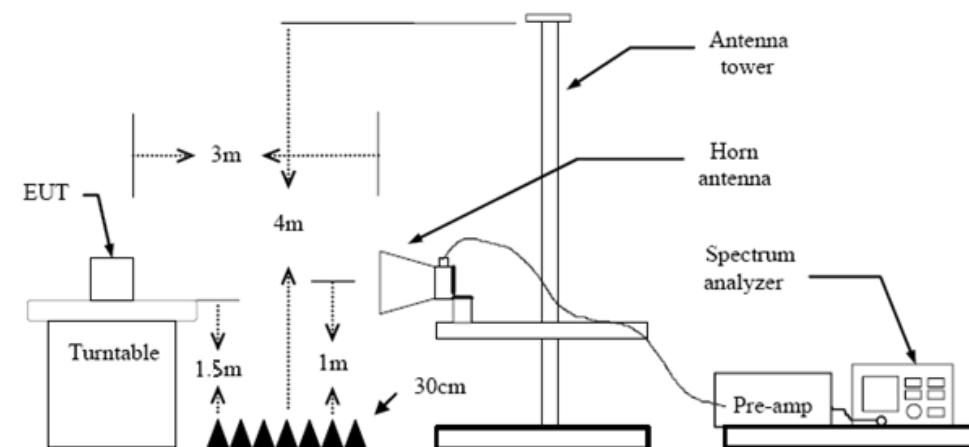
Test Configuration



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW=3MHz RMS detector for Average value.

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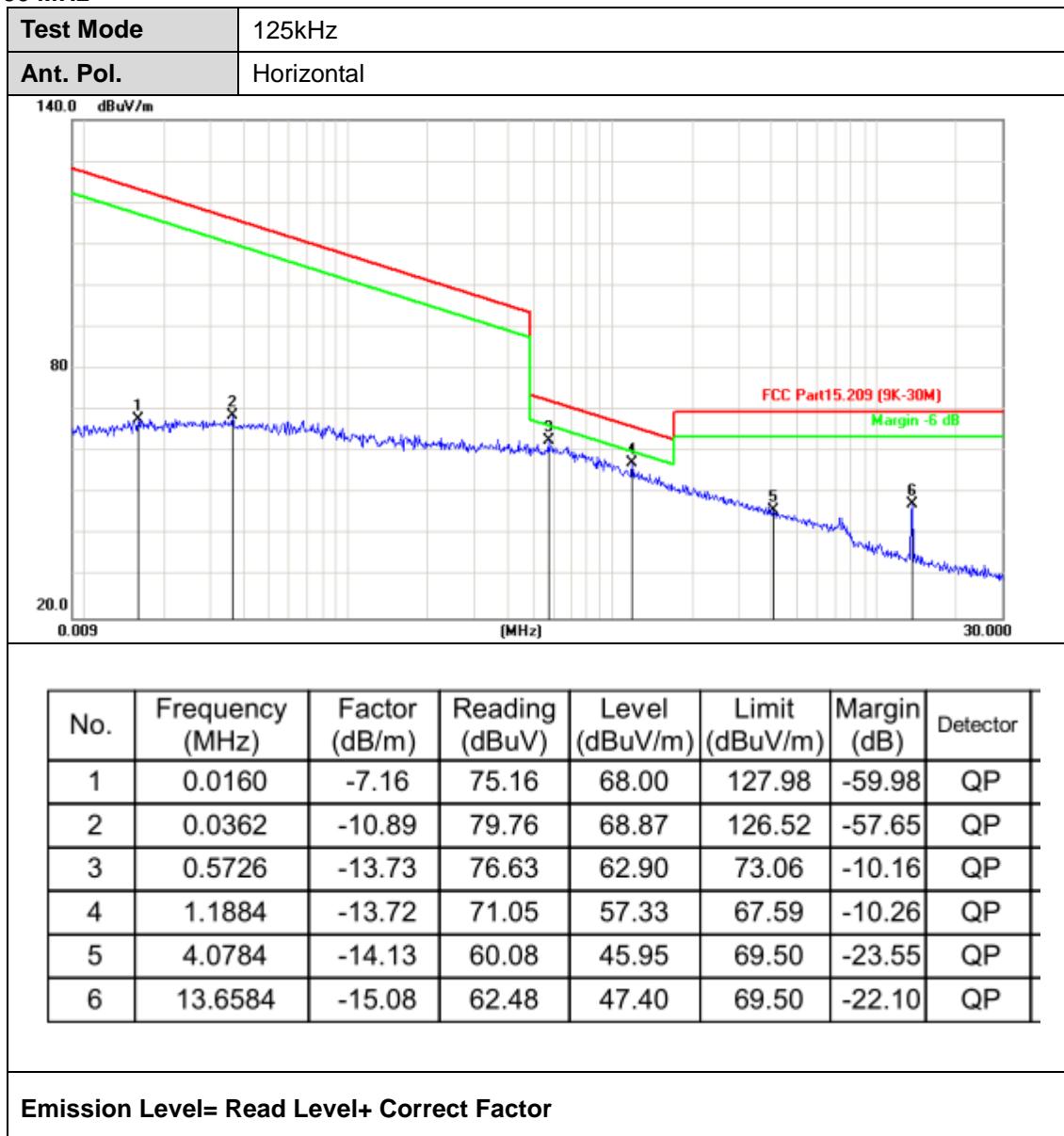
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 [Http://www.sz-ctc.org.cn](http://www.sz-ctc.org.cn)

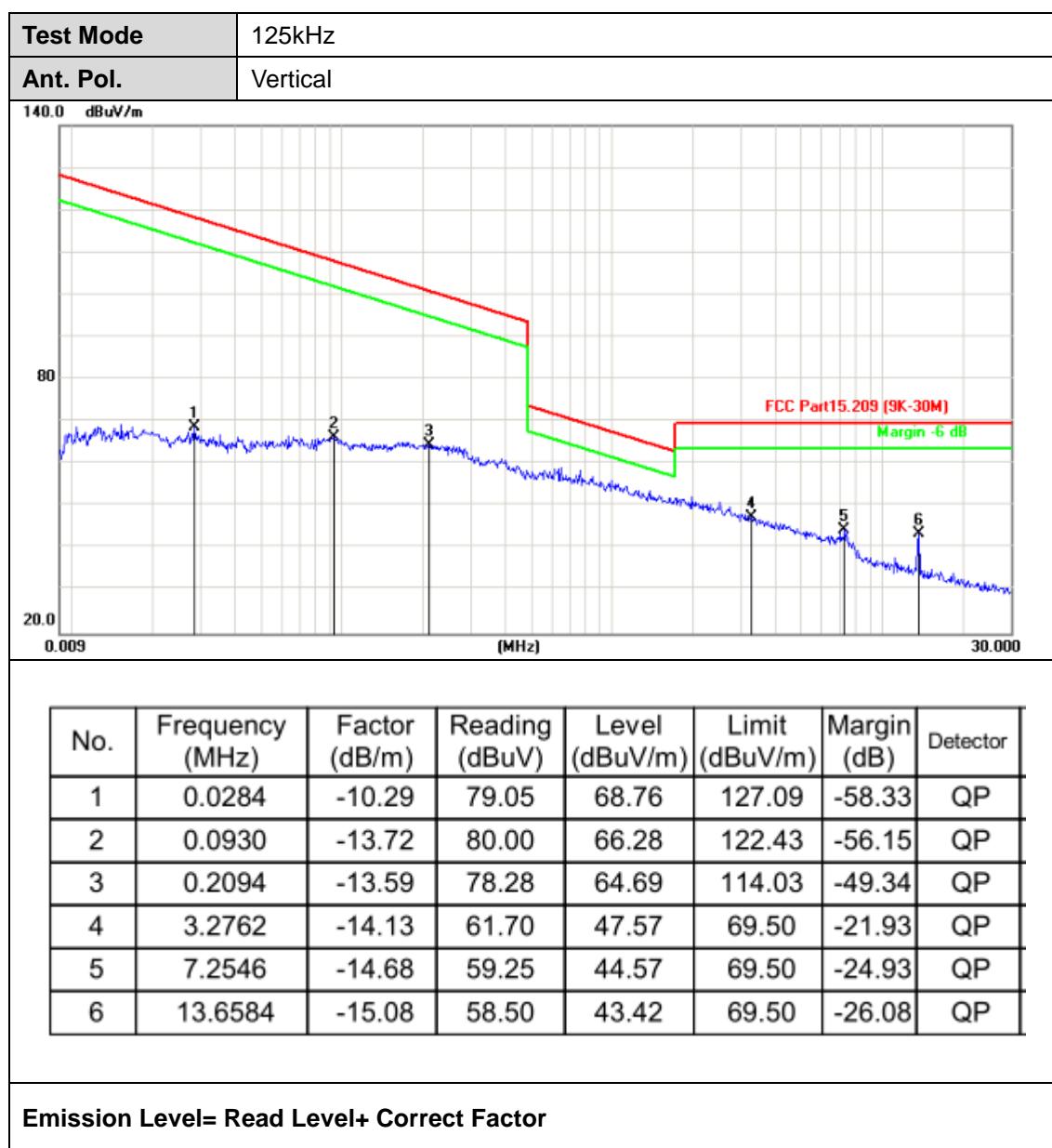
Test Mode

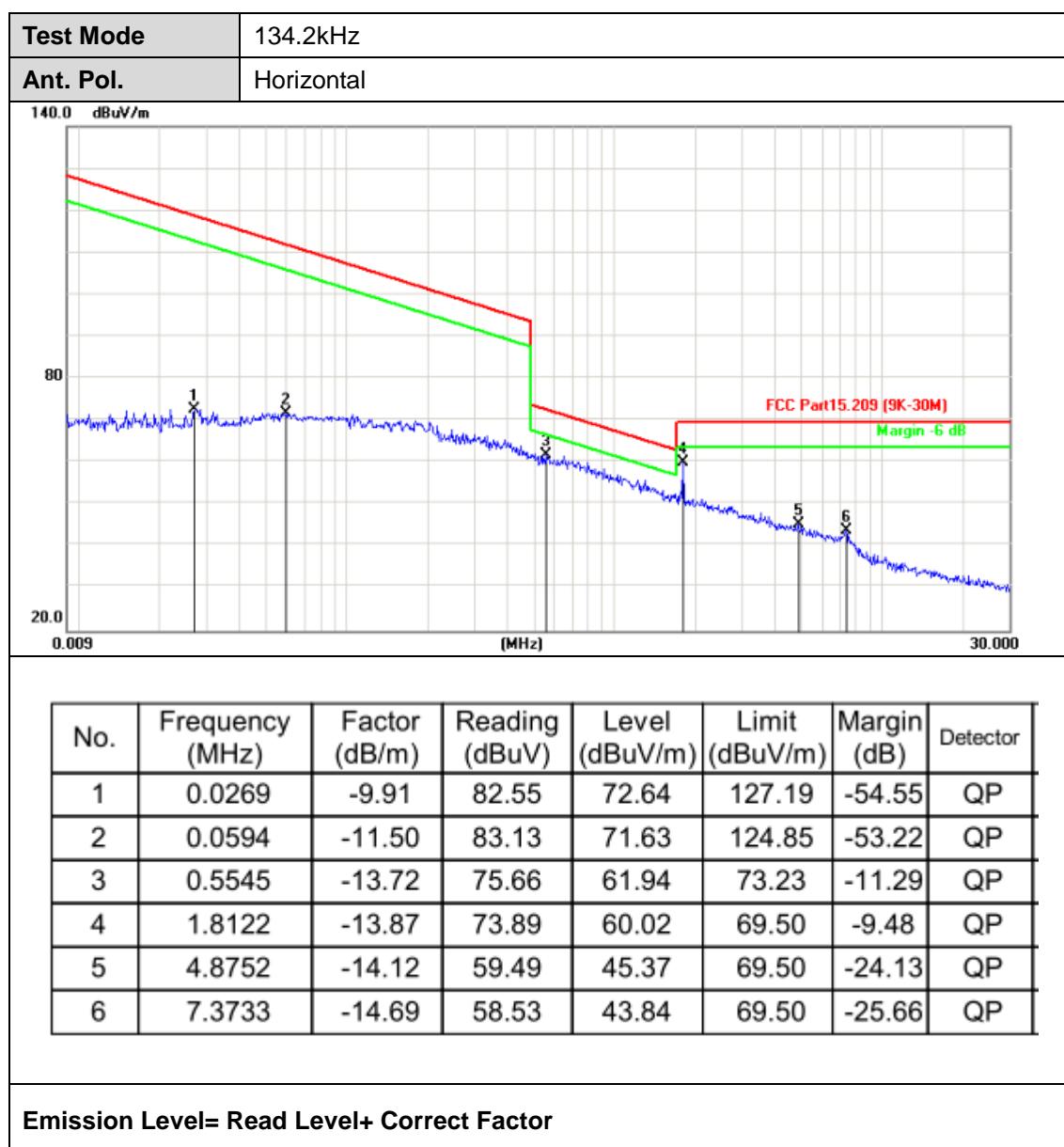
Please refer to the clause 1.7.

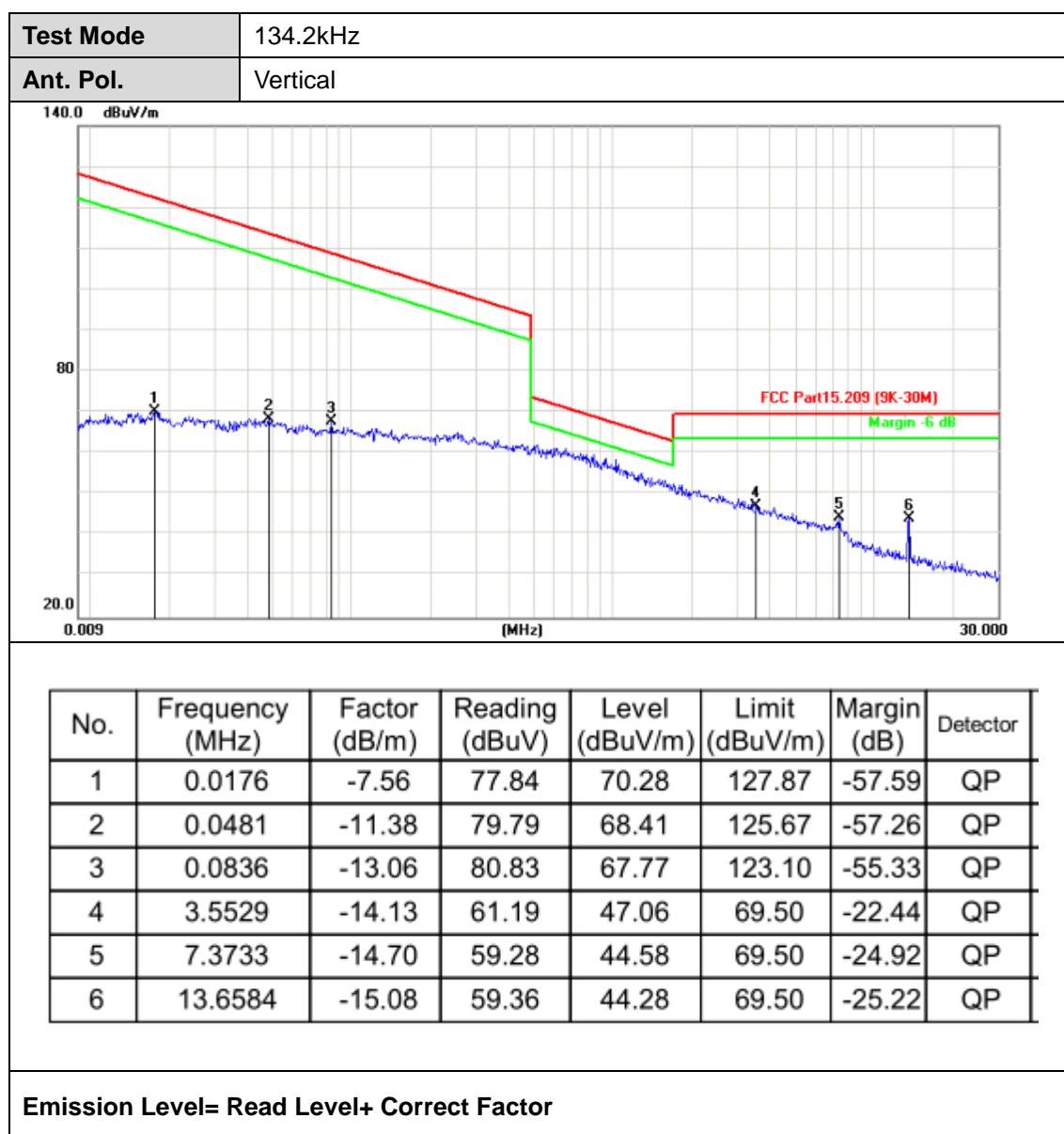
Test Result

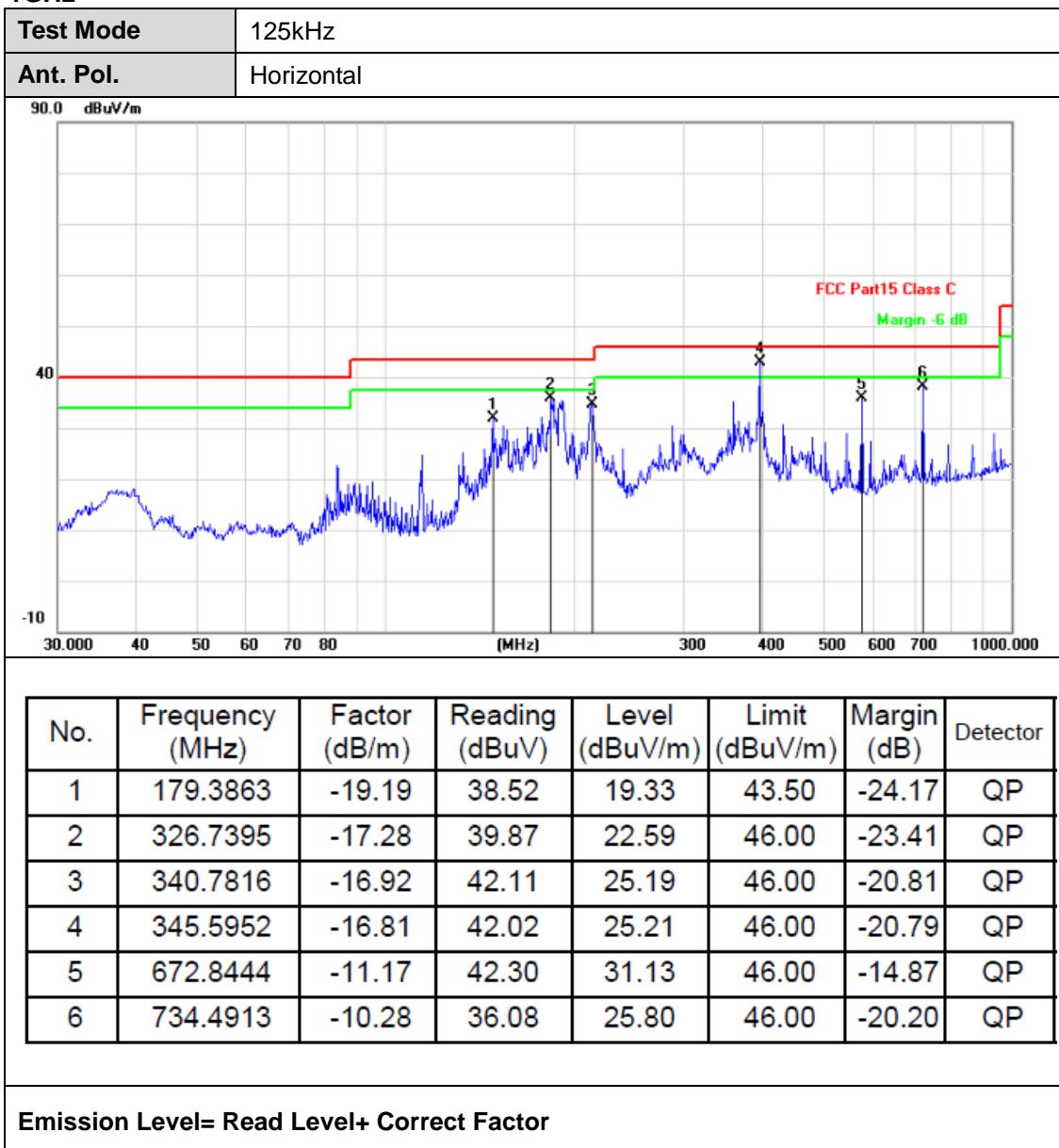
9 KHz~30 MHz

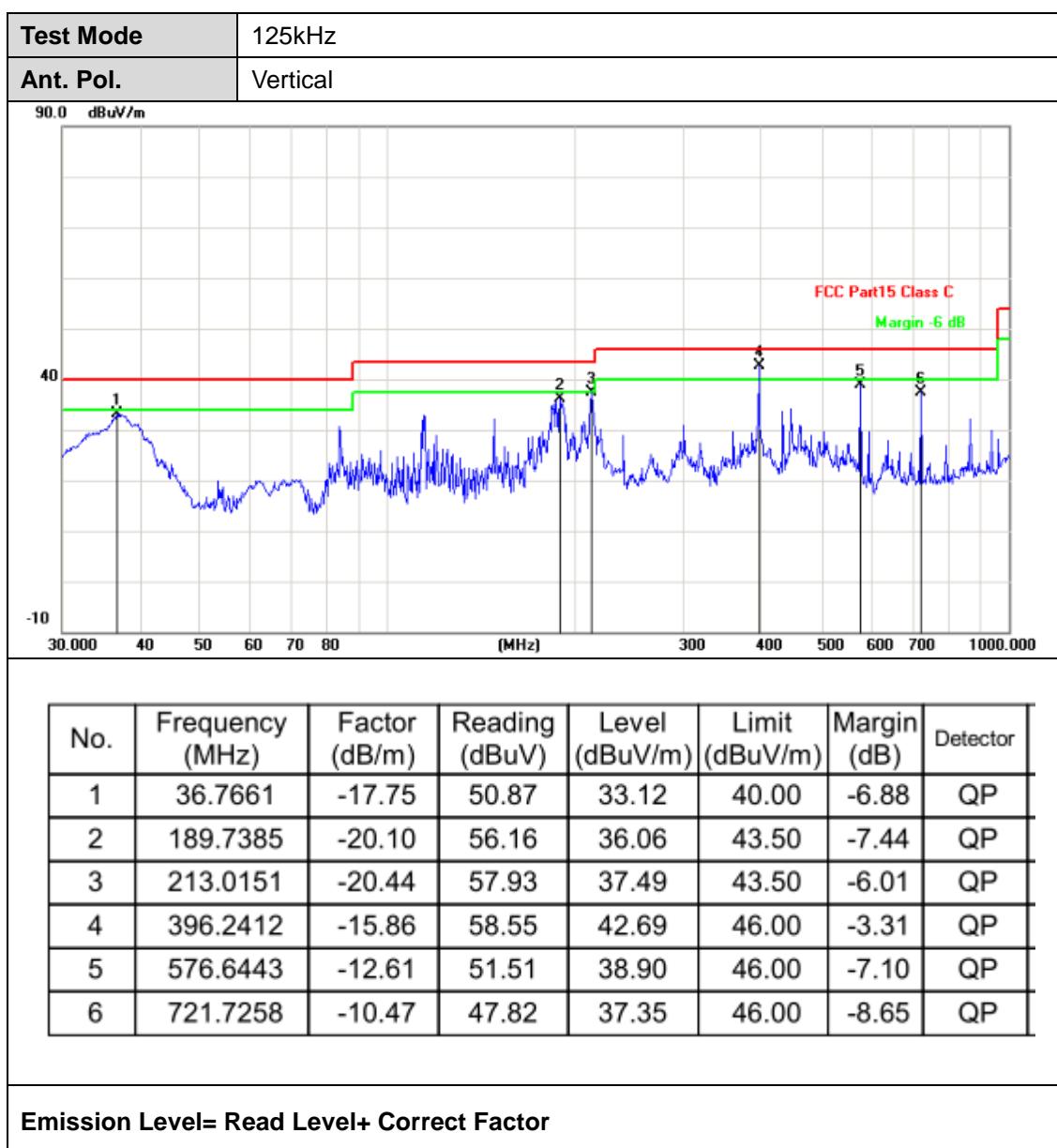


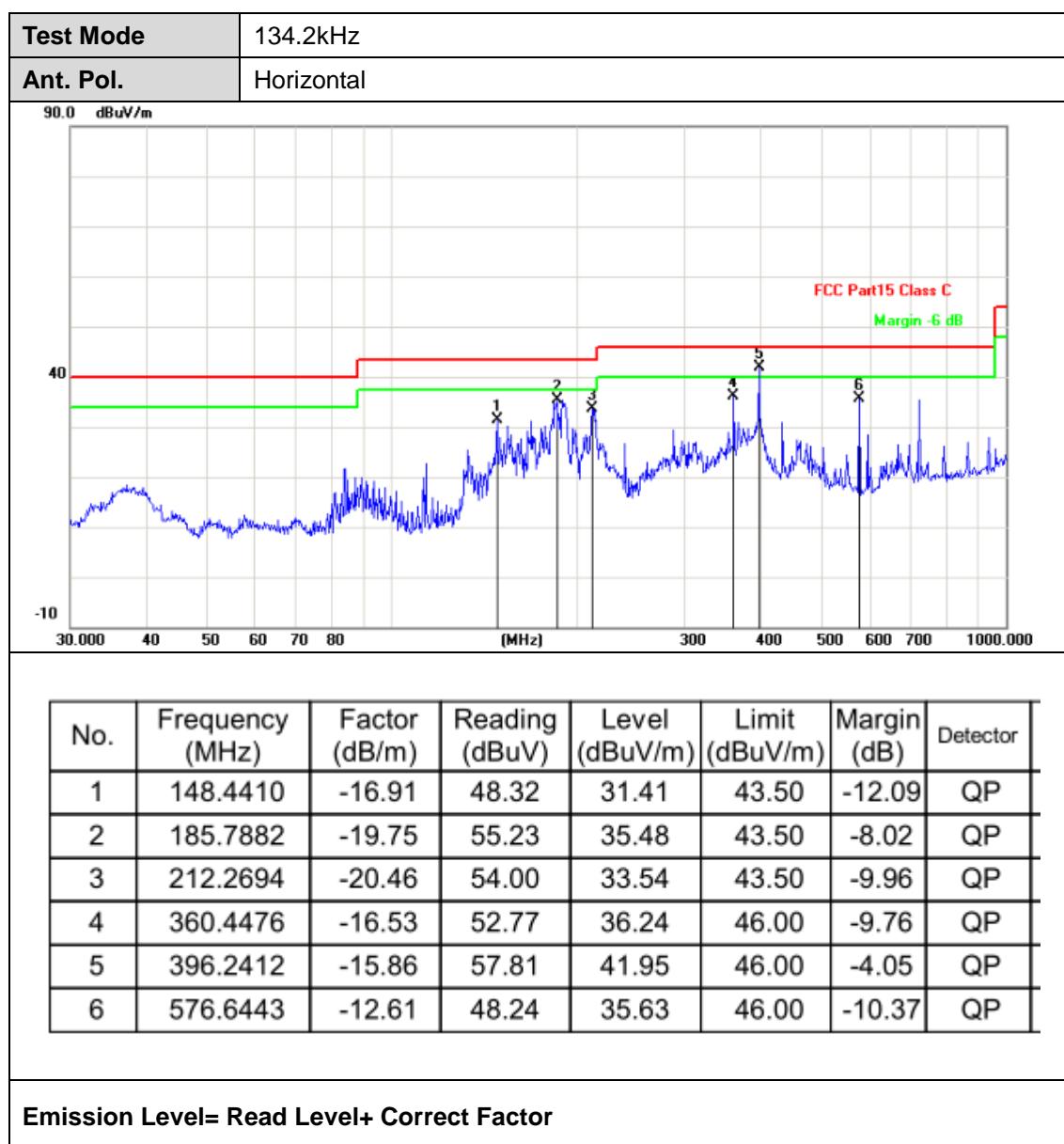


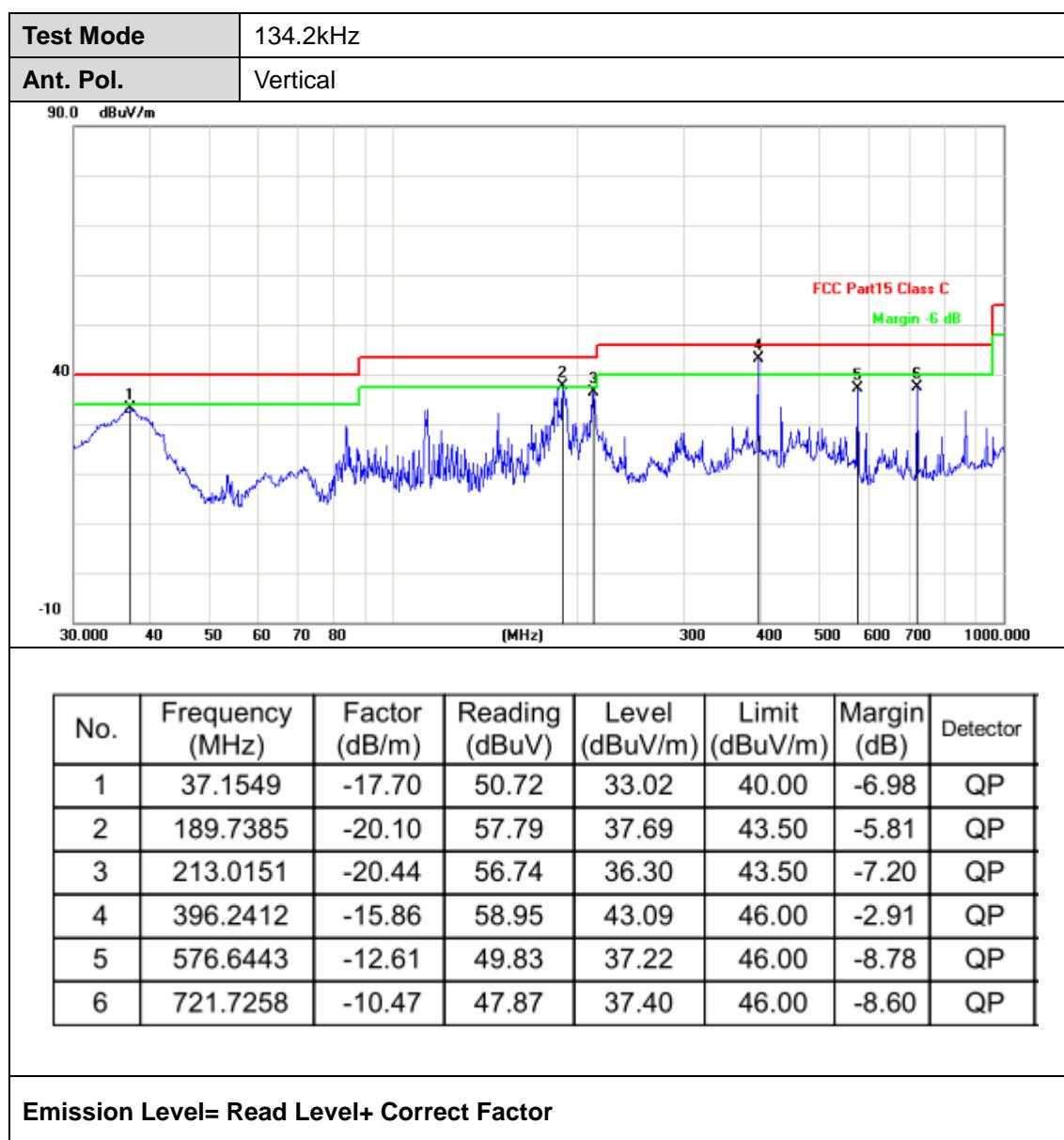




30MHz-1GHz








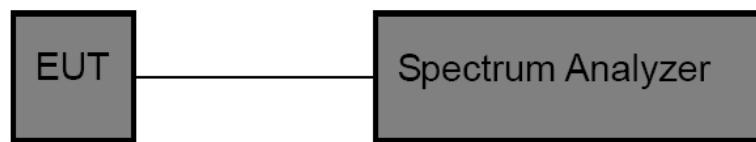
2.3. Occupied Bandwidth 20 dB Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.215

Intentional radiators must be designed to ensure that the 20dB emission bandwidth in the specific band.

Test Configuration



Test Procedure

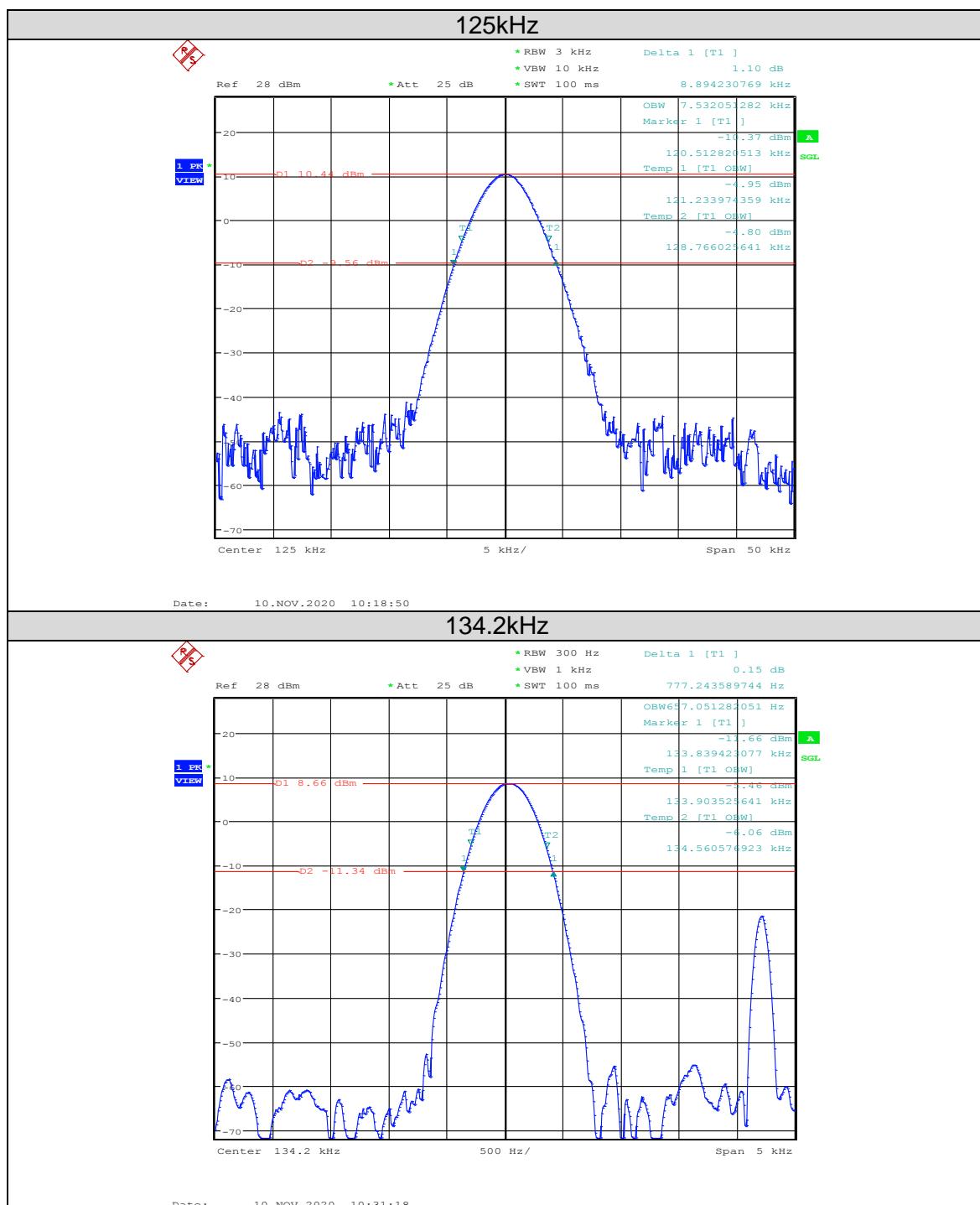
1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
 - (1) Set RBW \geq 1% of the 20 dB bandwidth.
 - (2) Set the video bandwidth (VBW) \geq RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

Test Mode

Please refer to the clause 1.7.

Test Results

Channel Frequency(kHz)	Occupied Bandwidth (kHz)	20dB Bandwidth (kHz)	Result
125	7.53	8.89	PASS
134.2	657.05	0.78	PASS



2.4. Field Strength of the Fundamental

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.209

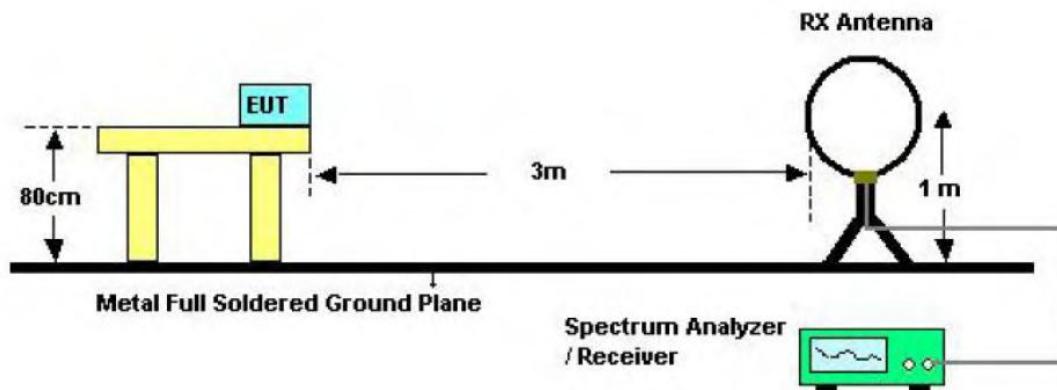
Limit for frequency below 30MHz:

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009~0.490	2400/F(kHz)	300	Quasi-peak
0.490~1.705	24000/F(kHz)	30	Quasi-peak
1.705~30.0	30	30	Quasi-peak

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

Test Configuration



Below 30MHz Test Setup

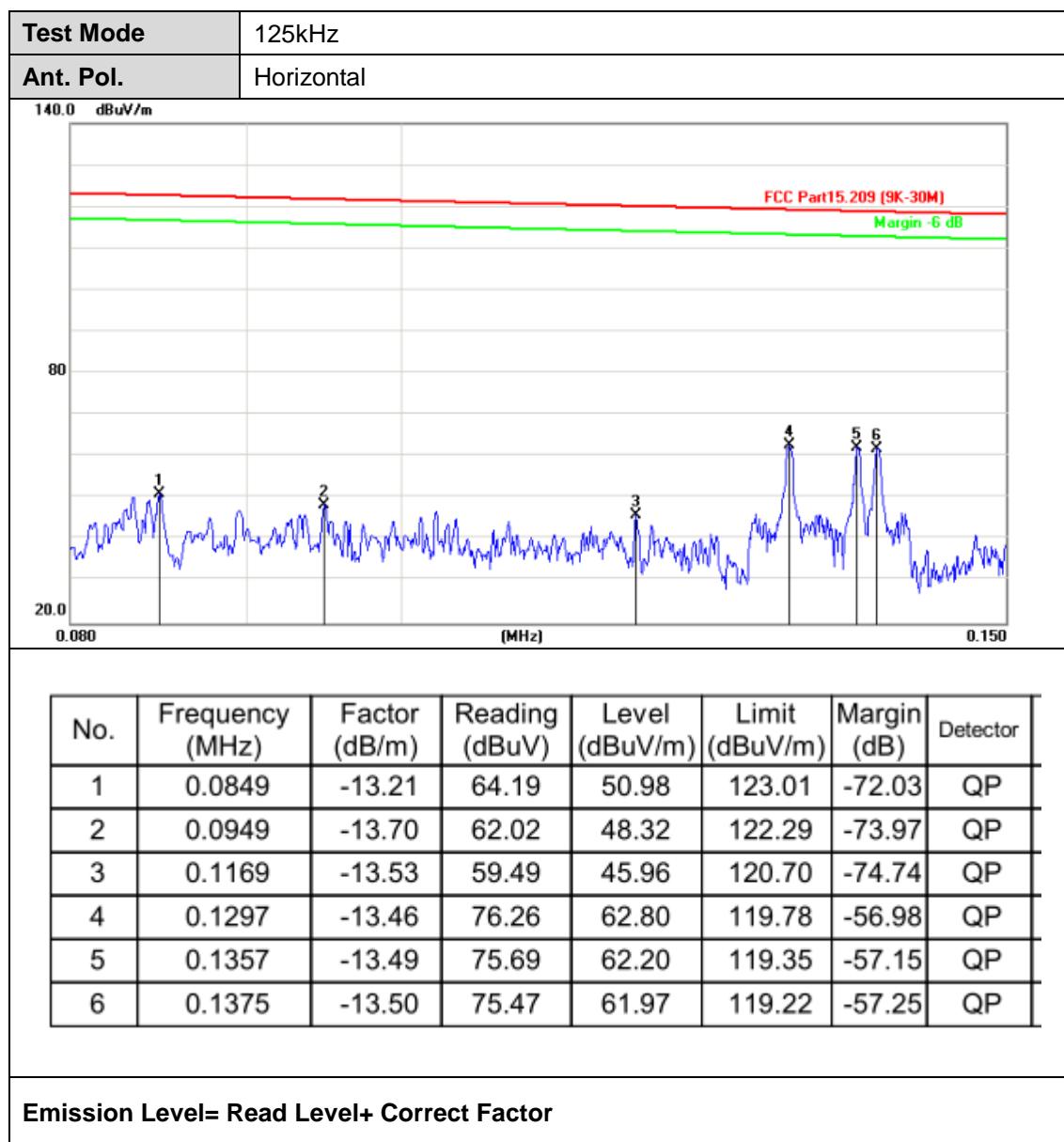
Test Procedure

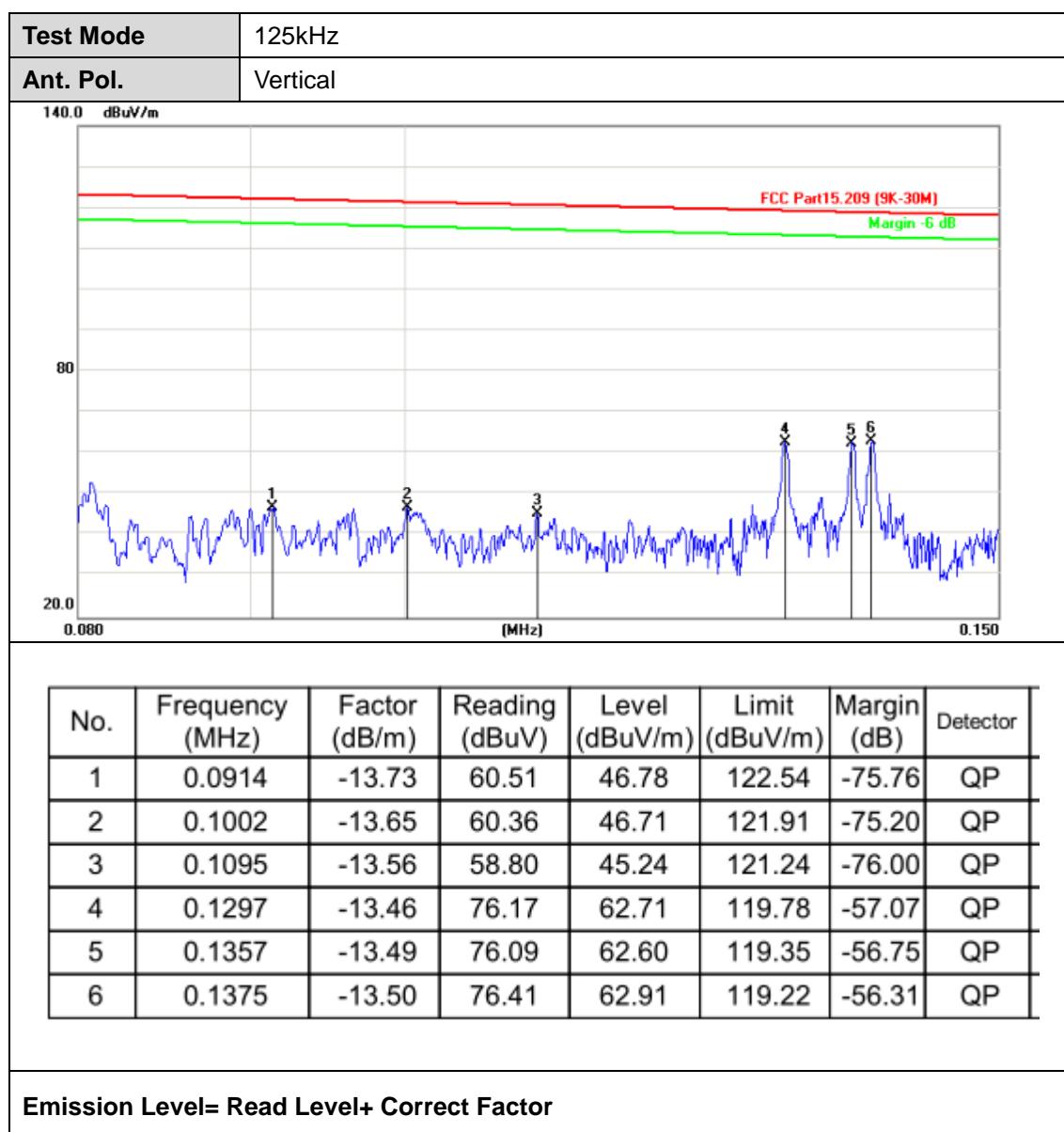
1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

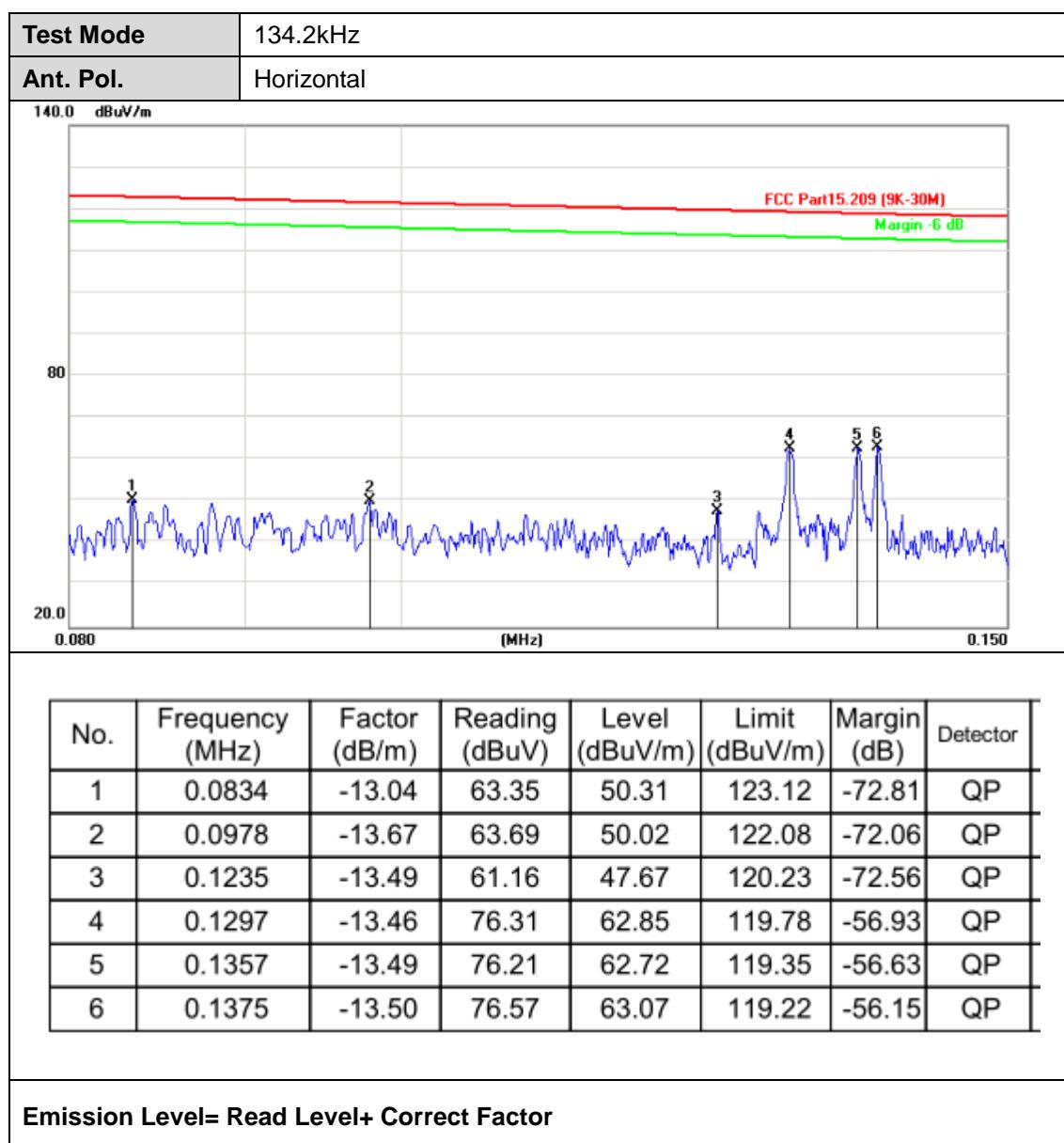
Test Mode

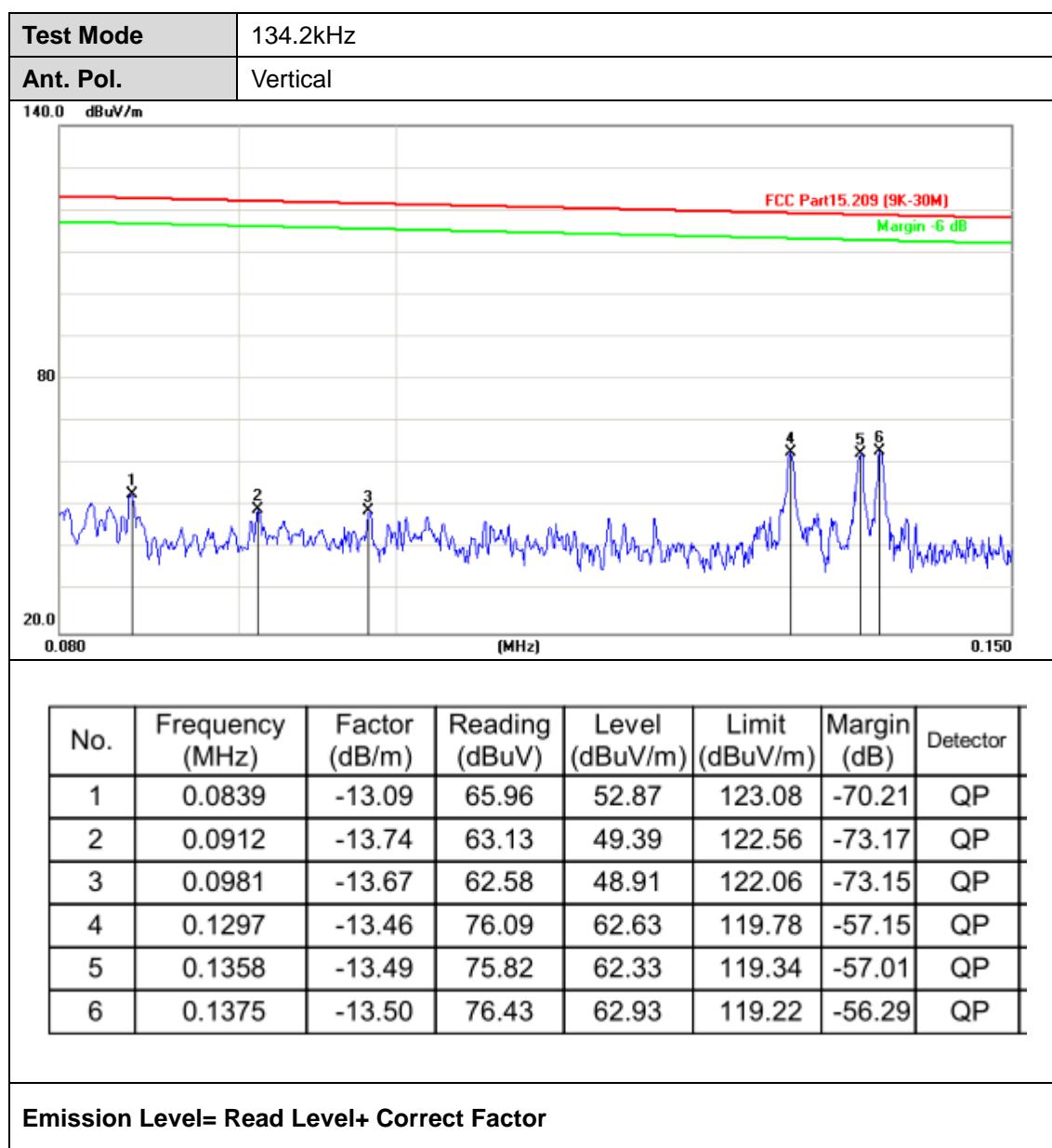
Please refer to the clause 1.7.

Test Result











2.5. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.

*****THE END*****