



Certificate #4338.01



Radio Test Report

Report No.: STS2511091W01

Issued for

Aeotec Limited

OFFICE 4 10/F KWAN CHART TOWER NO. 6 TONNOCHY
ROAD WANCHAI, Hong Kong, China

Product Name: Door Window Sensor 8, aerQ
Temperature & Humidity Sensor 8

Brand Name: Aeotec

Model Name: ZWA055-A

Series Model(s): ZWA057-A

FCC ID: 2AOGIZWA055

Test Standards: FCC Part15.249

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Aeotec Limited
Address.....: OFFICE 4 10/F KWAN CHART TOWER NO. 6 TONNOCHY ROAD WANCHAI, Hong Kong, China
Manufacturer's Name: Alightum Tech Ltd.
Address.....: Floor 6, Building A, Wanhe Technology Building, No.7, Huitong Road, Fenghuang Community, Fenghuang Street, Guangming District, Shenzhen, China

Product Description

Product Name: Door Window Sensor 8, aerQ Temperature & Humidity Sensor 8
Brand Name: Aeotec
Model Name: ZWA055-A
Series Model(s): ZWA057-A
Standards.....: FCC Part 15.249
Test Procedure: ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test.....:
Date of receipt of test item.....: 12 Nov. 2025
Date of performance of tests ..: 12 Nov. 2025 ~ 09 Dec. 2025
Date of Issue.....: 09 Dec. 2025
Test Result: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	09 Dec. 2025	STS2511091W01	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.249 , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.203	Antenna Requirement	Pass	--
15.249	Radiated Spurious Emission	Pass	--
15.249	Radiated Band Edge Emission	Pass	--
15.249	Field Strength of fundamental	Pass	--
15.215(c)	20dB Bandwidth	Pass	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. :101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.751\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.888\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.48\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 2.52\text{dB}$
5	All emissions, radiated 1G-18GHz	$\pm 3.48\text{dB}$
6	All emissions, radiated >18GHz	$\pm 4.18\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.48\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.52\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.6\%$
10	Power Spectral Density, conducted	$\pm 1.214\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Door Window Sensor 8, aerQ Temperature & Humidity Sensor 8	
Brand Name	Aeotec	
Model Name	ZWA055-A	
Series Model(s)	ZWA057-A	
Model Difference	ZWA055 is a full-function product. Compared with ZWA057, it adds a magnet block accessory in hardware and a door magnetic sensor based on Hall check in software functionality.	
Product Description	The EUT is a Door Window Sensor 8, aerQ Temperature & Humidity Sensor 8	
	Operation Frequency:	908.40MHz /908.42MHz /912.00MHz / 916.00MHz /920.00MHz
	Modulation Type:	FSK
	Antenna Designation:	spring antenna
	Antenna Gain(Peak):	908.40~920MHz: 0.75dBi
Based on the application, features, or specification exhibited in User Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User Manual.		
Power Rating	Input: DC 5V 1A	
	DC 3V(By non-rechargeable lithium battery)	
Adapter	N/A	
Battery	Model:CR14250 Normal Voltage:3V Capacity: 800mAh	
Hardware version number	AB	
Software version number	V1.00	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2.

Channel List	
Channel	Frequency
1	908.40 MHz
2	908.42 MHz
3	912.00 MHz
4	916.00 MHz
5	920.00 MHz



3.

Test channel List		
Test Channel	EUT Channel	Test Frequency
lowest	CH01	908.40 MHz
middle	CH03	912.00 MHz
highest	CH05	920.00 MHz

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Pretest Mode	Description	Data/Modulation
Mode 1	TX/CH01	FSK
Mode 2	TX/CH03	FSK
Mode 3	TX/CH05	FSK

Note:

(1) All above mode have been measurement, only worst data was reported.

For AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 6 : Keeping TX

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

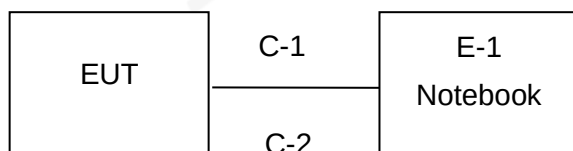
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
Other SRD	908.40MHz	FSK	0.75	25	sscom 5.13.1
	908.42MHz	FSK		25	
	912.00MHz	FSK		25	
	916.00 MHz	FSK		25	
	920.00MHz	FSK		25	



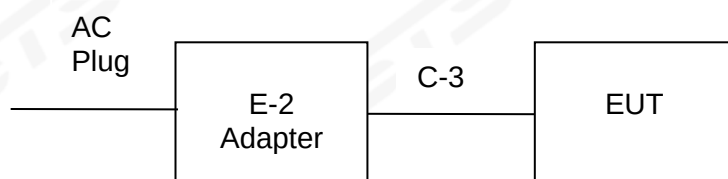
2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters.

Radiated Spurious Emission Test



Conducted Emission Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Notebook	DELL	Inspiron 3501	N/A
E-2	Adapter	ZTC	NB-A515A	N/A
C-1	Serial port board	XES	WTYZK	N/A
C-2	USB Cable	MI	RYEW3A	N/A
C-3	USB Cable	ZTC	NB-A515A	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-2	Shielded	NO	150cm	N/A
C-3	Shielded	NO	100cm	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENG FENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
Conduction Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limiter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2025.02.22	2026.02.21
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

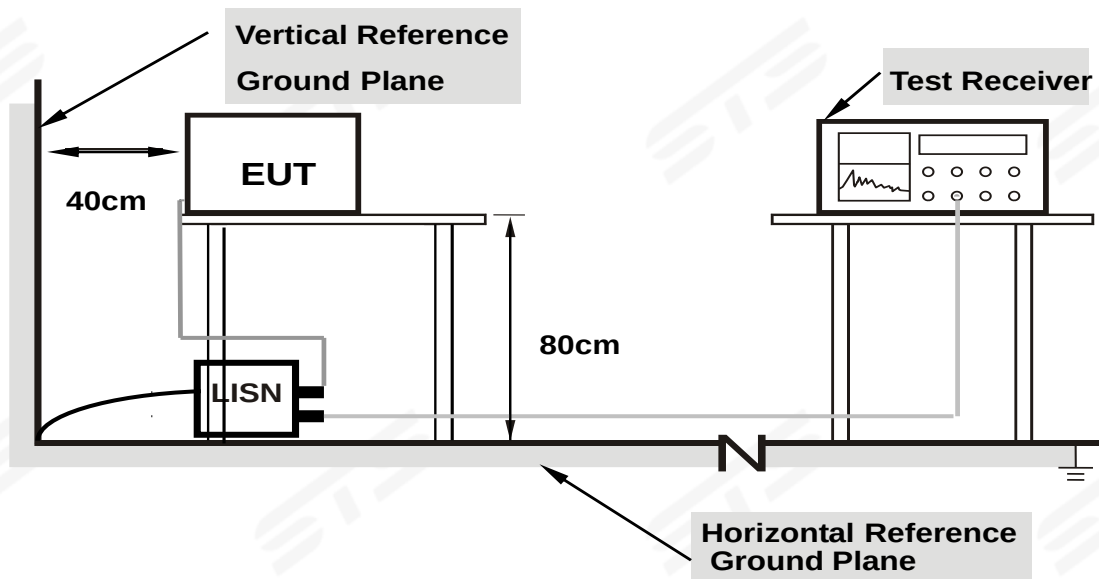
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



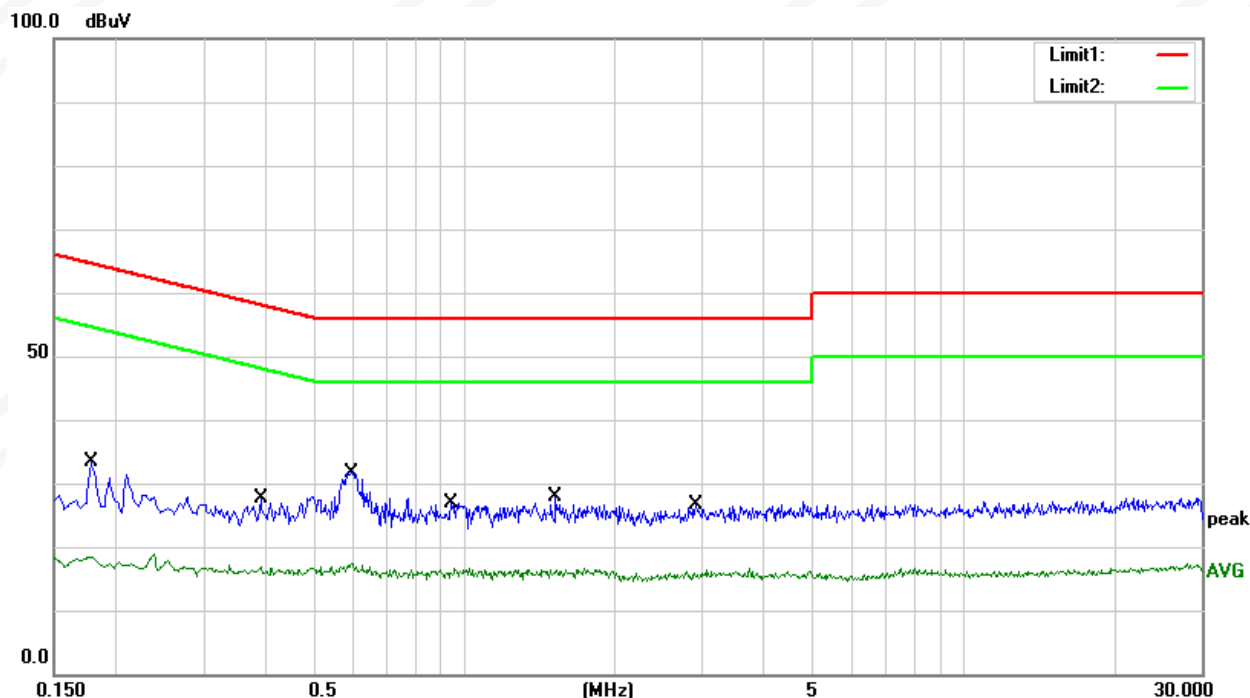
3.1.5 TEST RESULT

Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 6		

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor(dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
1	0.1780	13.39	19.89	33.28	64.58	-31.30	QP
2	0.1780	-0.90	19.89	18.99	54.58	-35.59	AVG
3	0.3900	7.75	19.79	27.54	58.06	-30.52	QP
4	0.3900	-2.79	19.79	17.00	48.06	-31.06	AVG
5	0.5940	11.93	19.81	31.74	56.00	-24.26	QP
6	0.5940	-2.32	19.81	17.49	46.00	-28.51	AVG
7	0.9420	7.02	19.81	26.83	56.00	-29.17	QP
8	0.9420	-3.13	19.81	16.68	46.00	-29.32	AVG
9	1.5260	8.02	19.80	27.82	56.00	-28.18	QP
10	1.5260	-3.28	19.80	16.52	46.00	-29.48	AVG
11	2.9060	6.75	19.82	26.57	56.00	-29.43	QP
12	2.9060	-3.39	19.82	16.43	46.00	-29.57	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit



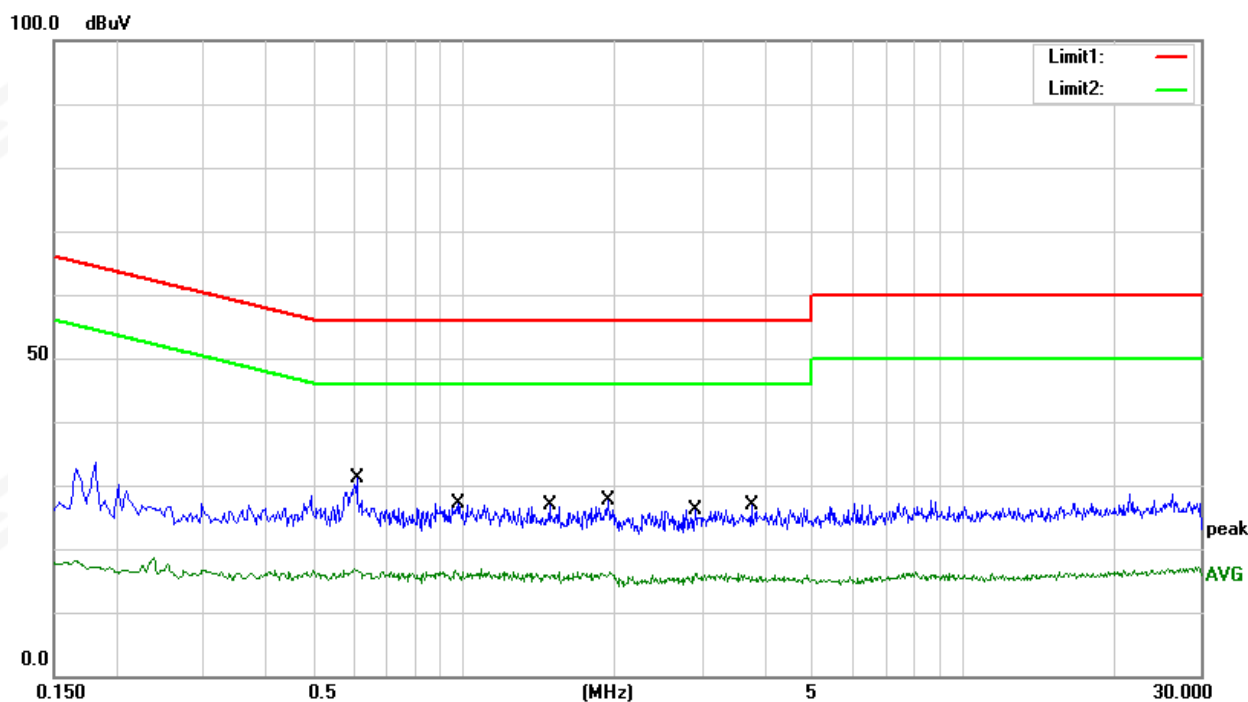


Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 6		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.6100	11.28	19.80	31.08	56.00	-24.92	QP
2	0.6100	-3.05	19.80	16.75	46.00	-29.25	AVG
3	0.9740	7.40	19.81	27.21	56.00	-28.79	QP
4	0.9740	-3.00	19.81	16.81	46.00	-29.19	AVG
5	1.4860	6.97	19.80	26.77	56.00	-29.23	QP
6	1.4860	-3.50	19.80	16.30	46.00	-29.70	AVG
7	1.9460	7.88	19.78	27.66	56.00	-28.34	QP
8	1.9460	-3.40	19.78	16.38	46.00	-29.62	AVG
9	2.9140	6.39	19.81	26.20	56.00	-29.80	QP
10	2.9140	-3.66	19.81	16.15	46.00	-29.85	AVG
11	3.7700	7.06	19.82	26.88	56.00	-29.12	QP
12	3.7700	-3.70	19.82	16.12	46.00	-29.88	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.249 and the Part 15.209(a) limit in the table below has to be followed.

Standard FCC 15.209

Frequencies (MHz)	Field Strength (micorvolts/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
Above 1000	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	3

Standard FCC 15.249

Frequency of Emission (MHz)	Field Strength of fundamental (millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
900~928	50	500
2400~2483.5	50	500
5725~5875	50	500
24000~242500	250	2500

Notes:

- (1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.
- (2) Emission level (dBuV/m) =20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7



6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

Spectrum Parameter	Setting
Detector	Peak/AV
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB (emission in restricted band)	>20BW
VB (emission in restricted band)	=3xRB

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
	90kHz~110kHz / RB 200Hz for QP
	110kHz~490kHz / RB 200Hz for PK & AV
	490kHz~30MHz / RB 9kHz for QP
	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

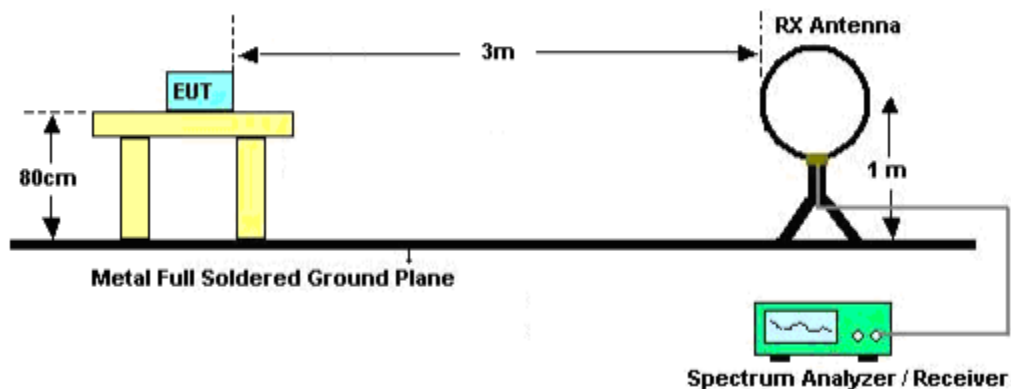
- a. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Below 1GHz)
- b. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Above 1GHz)
- c. The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform (Below 1GHz)
- f. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform. (Above 1GHz)
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

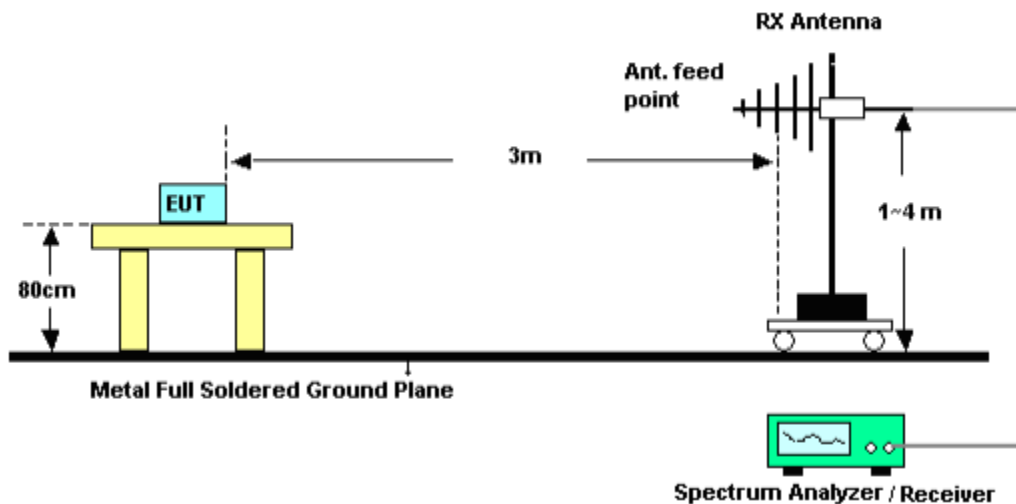
No deviation

3.2.4 TEST SETUP

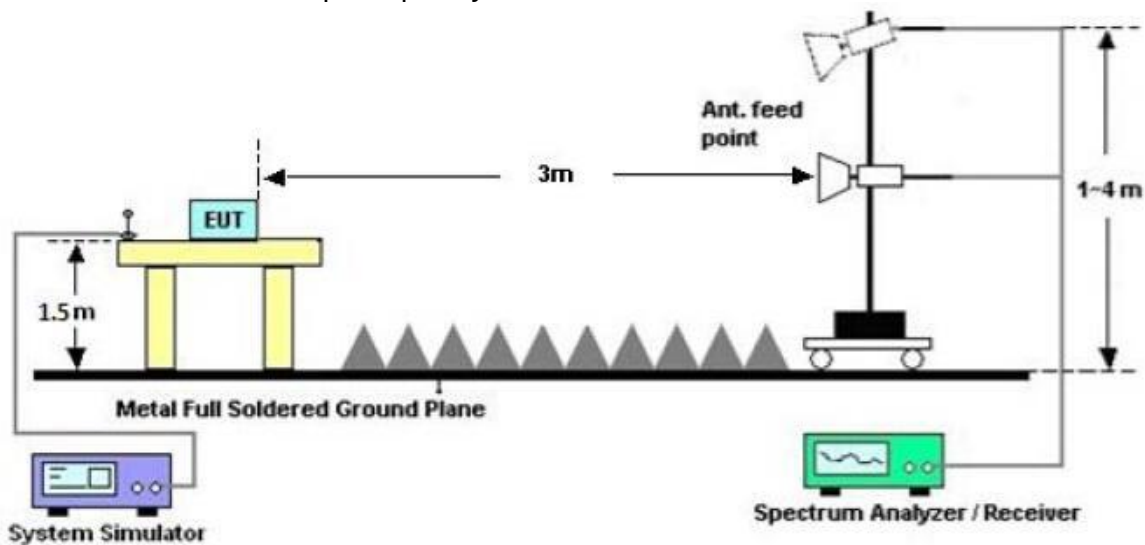
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

Margin=PL-PK L or AL- AV L; Margin only shown the worst case.

Where

PR = Peak Reading

AR = Average Reading

PL = Peak Level

AL = Average Level

AF = Antenna Factor

PK L = Peak Limit

AV L = AV Limit

For example

Frequency	PR	AR	AF	PL	AL	PK L	AV L	Margin
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	(dBμV/m)	(dB)
2178	40.23	30.31	9.83	50.06	40.14	74.00	54.00	-13.86



3.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Below 30 MHz

Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3V	Polarization:	---
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



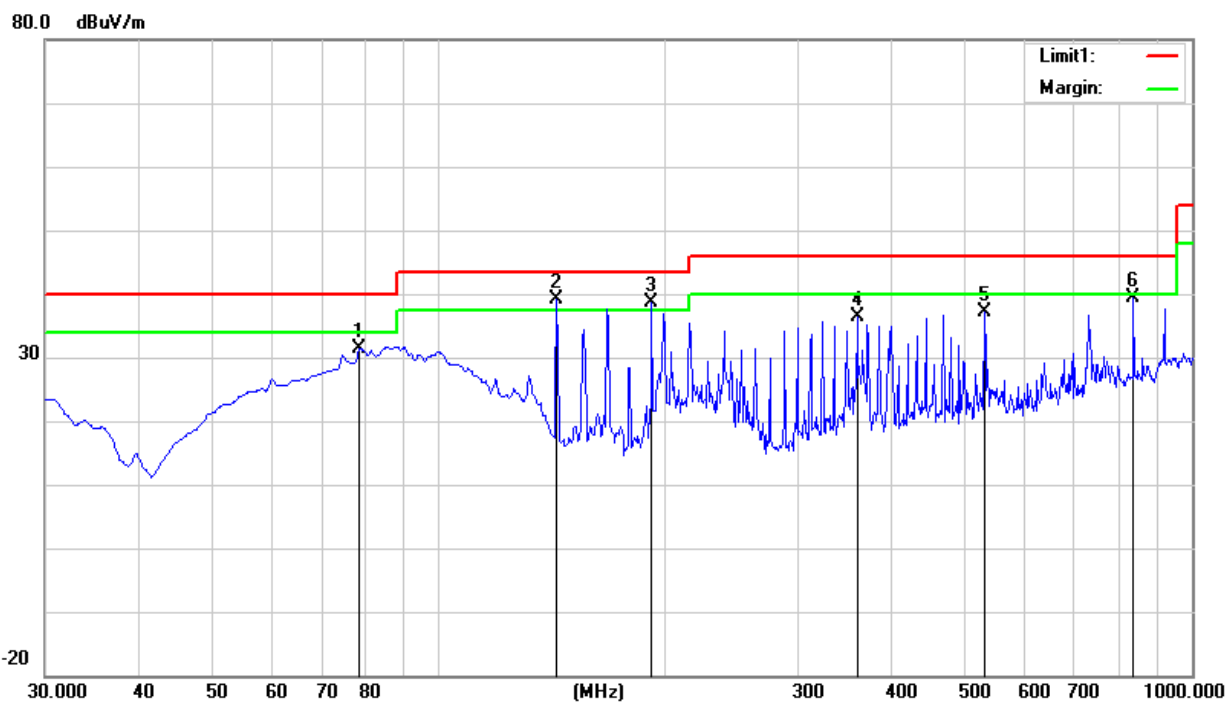
Between 30MHz – 1000 MHz Radiation Spurious

Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3V	Phase:	Horizontal
Test Mode:	900MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	78.5000	54.60	-23.32	31.28	40.00	-8.72	peak
2	143.4900	57.26	-18.23	39.03	43.50	-4.47	peak
3	191.9900	59.62	-21.04	38.58	43.50	-4.92	peak
4	359.8000	49.17	-12.87	36.30	46.00	-9.70	peak
5	531.4900	44.53	-7.37	37.16	46.00	-8.84	peak
6	837.0400	39.93	-0.46	39.47	46.00	-6.53	peak

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain





Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3V	Phase:	Vertical
Test Mode:	900MHz		

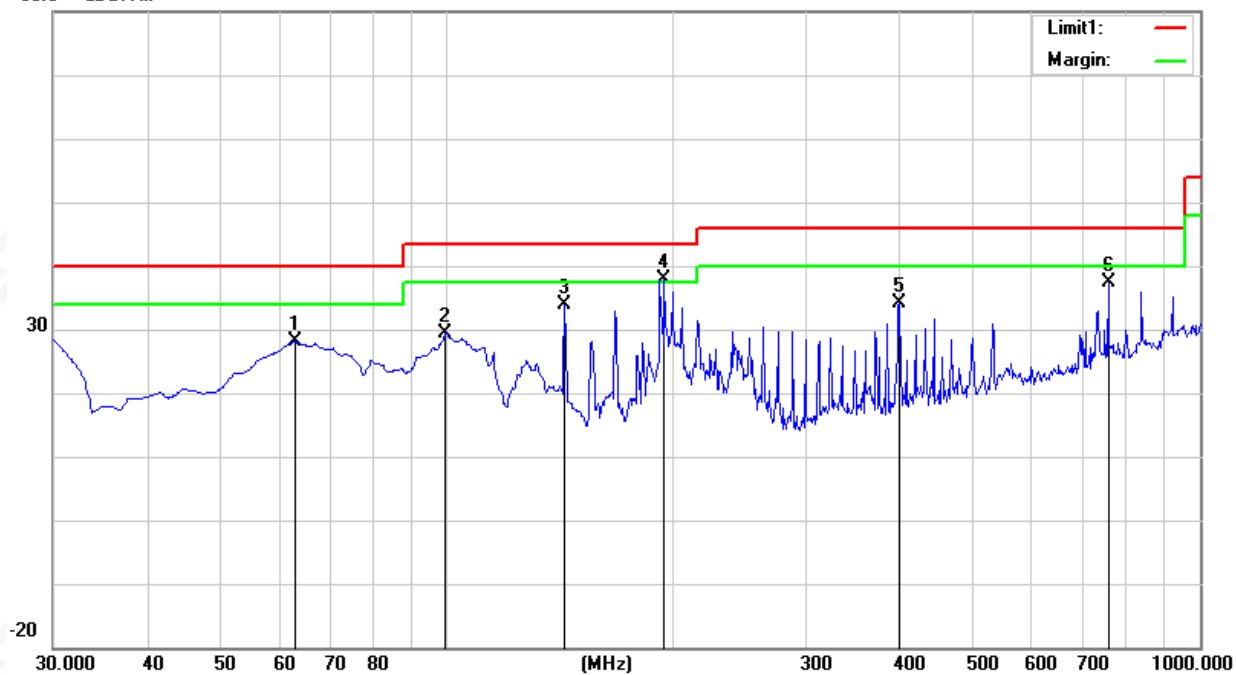
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	62.9800	53.76	-25.70	28.06	40.00	-11.94	peak
2	99.8400	49.44	-20.15	29.29	43.50	-14.21	peak
3	143.4900	52.02	-18.23	33.79	43.50	-9.71	peak
4	194.9000	58.90	-21.14	37.76	43.50	-5.74	peak
5	399.5700	45.29	-11.16	34.13	46.00	-11.87	peak
6	757.5000	39.53	-2.17	37.36	46.00	-8.64	peak

Remark:

3. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$

4. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor (cable loss)} - \text{Amplifier gain}$

80.0 dBuV/m





Above 1G Radiation Spurious

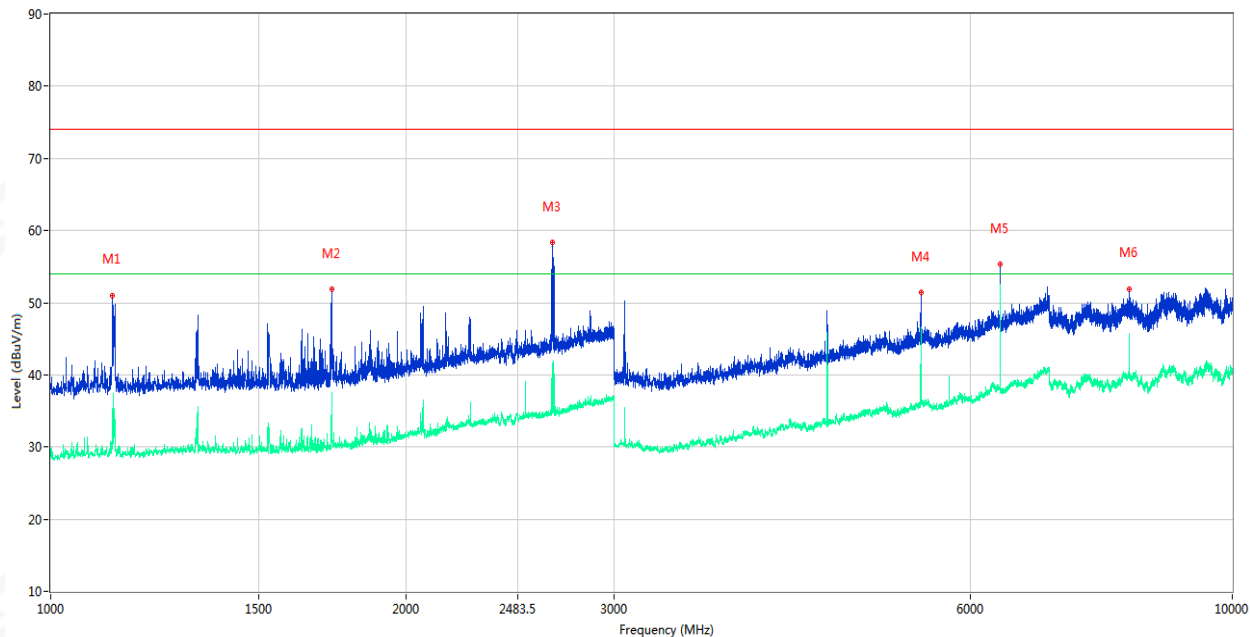
908.40MHz

Horizontal

No	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1128.000	51.04	-1.71	74.0	22.96	Peak	207.10	100	Horizontal	Pass
1**	1128.000	35.29	-1.71	54.0	18.71	AV	207.10	100	Horizontal	Pass
2	1730.500	51.89	-0.70	74.0	22.11	Peak	137.50	100	Horizontal	Pass
2**	1730.500	37.62	-0.70	54.0	16.38	AV	137.50	100	Horizontal	Pass
3	2659.500	58.33	3.98	74.0	15.67	Peak	123.00	100	Horizontal	Pass
3**	2659.500	41.58	3.98	54.0	12.42	AV	123.00	100	Horizontal	Pass
4	5450.000	51.38	-4.87	74.0	22.62	Peak	59.50	100	Horizontal	Pass
4**	5450.000	46.68	-4.87	54.0	7.32	AV	59.50	100	Horizontal	Pass
5	6359.000	55.38	-1.96	74.0	18.62	Peak	22.30	100	Horizontal	Pass
5**	6359.000	52.55	-1.96	54.0	1.45	AV	22.30	100	Horizontal	Pass
6	8176.000	51.95	-0.48	74.0	22.05	Peak	263.30	100	Horizontal	Pass
6**	8176.000	45.27	-0.48	54.0	8.73	AV	263.30	100	Horizontal	Pass

Note: The peak value is less than the AV limit, so AV data does not need to be tested.

RE_FCC Test Case_FCC 15C 1GHz-10GHz



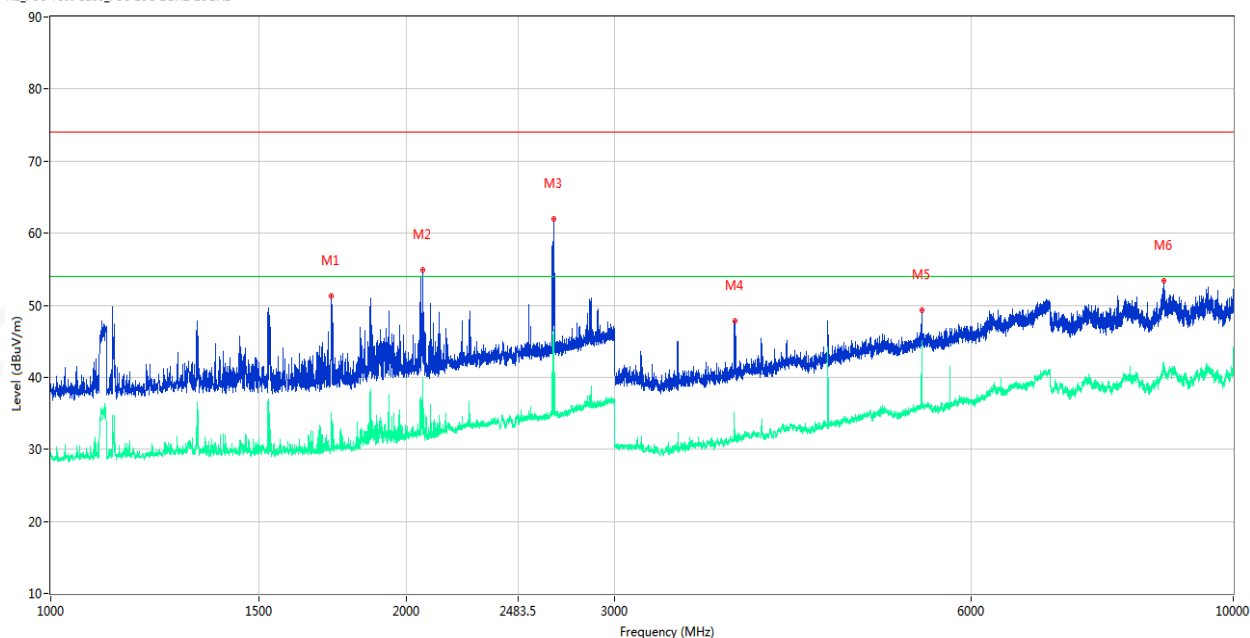


Vertical

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detect or	Table (Degree)	Height (cm)	Antenna	Verdict
1	1725.500	51.28	-0.75	74.0	22.72	Peak	150.20	100	Vertical	Pass
1**	1725.500	35.21	-0.75	54.0	18.79	AV	150.20	100	Vertical	Pass
2	2063.000	54.92	0.83	74.0	19.08	Peak	103.40	100	Vertical	Pass
2**	2063.000	39.86	0.83	54.0	14.14	AV	103.40	100	Vertical	Pass
3	2662.500	61.95	3.98	74.0	12.05	Peak	90.70	100	Vertical	Pass
3**	2662.500	46.56	3.98	54.0	7.44	AV	90.70	100	Vertical	Pass
4	3793.000	47.85	-10.61	74.0	26.15	Peak	234.20	100	Vertical	Pass
4**	3793.000	32.71	-10.61	54.0	21.29	AV	234.20	100	Vertical	Pass
5	5450.000	49.34	-4.87	74.0	24.66	Peak	5.30	100	Vertical	Pass
5**	5450.000	45.11	-4.87	54.0	8.89	AV	5.30	100	Vertical	Pass
6	8737.000	53.32	0.22	74.0	20.68	Peak	126.40	100	Vertical	Pass
6**	8737.000	40.73	0.22	54.0	13.27	AV	126.40	100	Vertical	Pass

Note: The peak value is less than the AV limit, so AV data does not need to be tested.

RE_FCC Test Case_FCC 15C 1GHz-10GHz





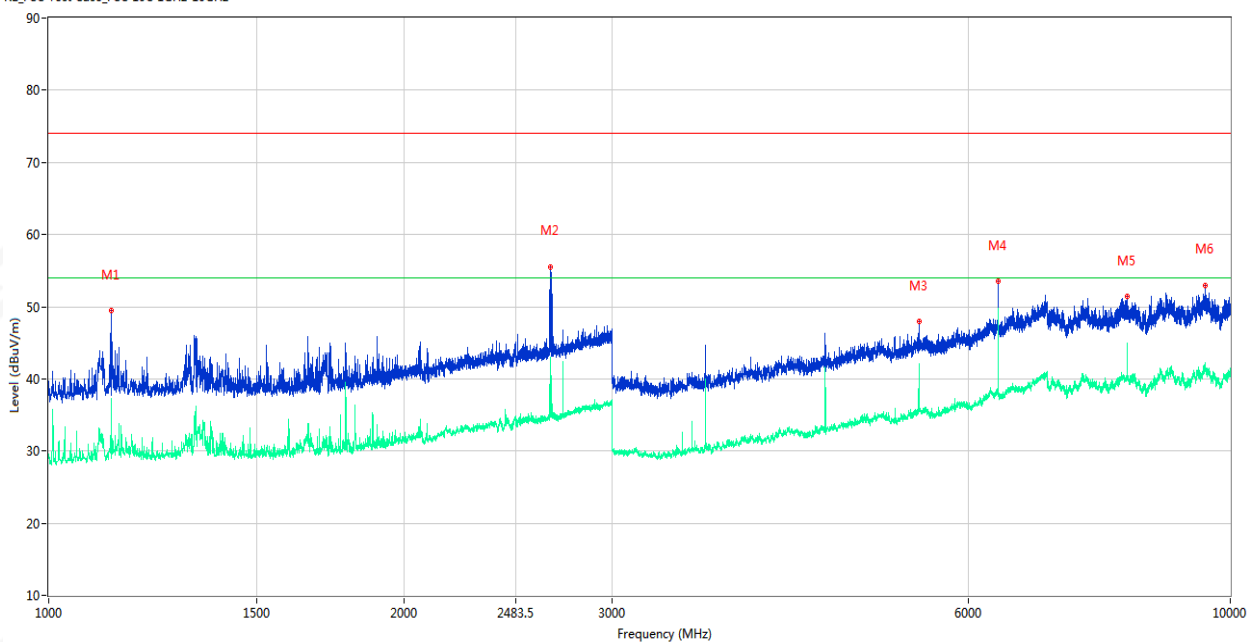
908.42MHz

Horizontal

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1130.000	49.51	-1.71	74.0	24.49	Peak	143.80	100	Horizontal	Pass
1**	1130.000	37.22	-1.71	54.0	16.78	AV	143.80	100	Horizontal	Pass
2	2656.500	55.56	3.98	74.0	18.44	Peak	134.90	100	Horizontal	Pass
2**	2656.500	38.72	3.98	54.0	15.28	AV	134.90	100	Horizontal	Pass
3	5450.000	47.92	-4.87	74.0	26.08	Peak	191.50	100	Horizontal	Pass
3**	5450.000	41.90	-4.87	54.0	12.10	AV	191.50	100	Horizontal	Pass
4	6359.000	53.48	-1.96	74.0	20.52	Peak	308.20	100	Horizontal	Pass
4**	6359.000	49.80	-1.96	54.0	4.20	AV	308.20	100	Horizontal	Pass
5	8175.250	51.36	-0.48	74.0	22.64	Peak	312.70	100	Horizontal	Pass
5**	8175.250	44.90	-0.48	54.0	9.10	AV	312.70	100	Horizontal	Pass
6	9522.250	52.99	1.33	74.0	21.01	Peak	170.20	100	Horizontal	Pass
6**	9522.250	41.68	1.33	54.0	12.32	AV	170.20	100	Horizontal	Pass

Note: The peak value is less than the AV limit, so AV data does not need to be tested.

RE_FCC Test Case_FCC 15C 1GHz-10GHz



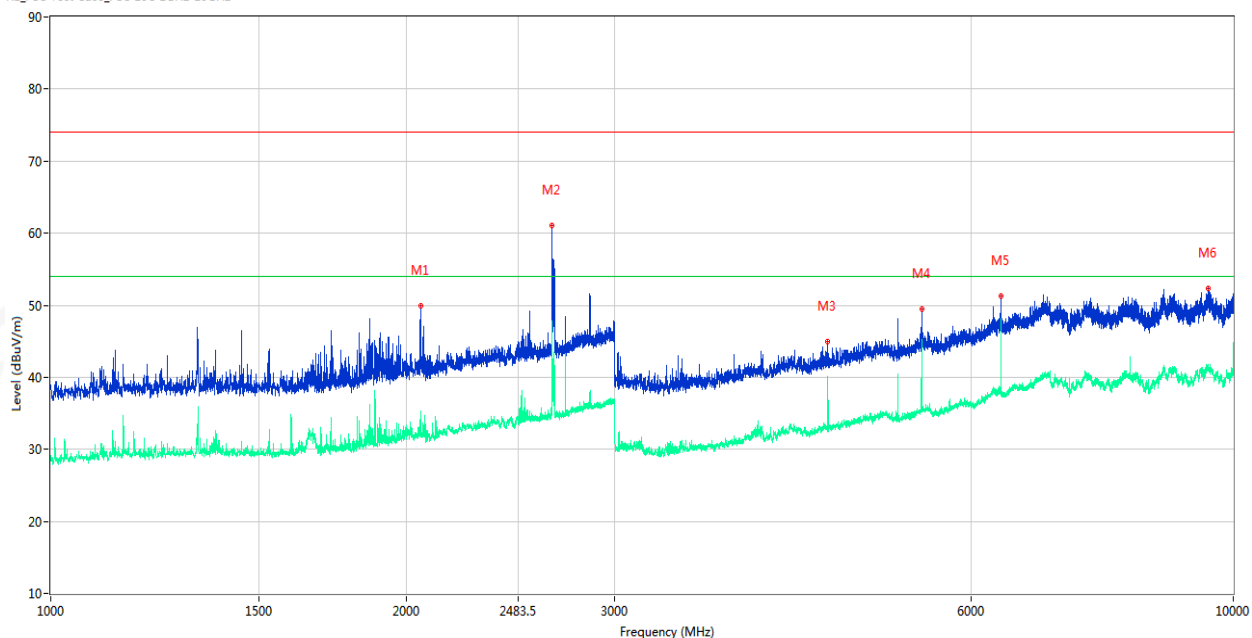


Vertical

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2057.000	49.92	0.82	74.0	24.08	Peak	117.30	100	Vertical	Pass
1**	2057.000	35.35	0.82	54.0	18.65	AV	117.30	100	Vertical	Pass
2	2655.000	61.00	3.98	74.0	13.00	Peak	96.90	100	Vertical	Pass
2**	2655.000	47.88	3.98	54.0	6.12	AV	96.90	100	Vertical	Pass
3	4542.000	44.95	-7.83	74.0	29.05	Peak	339.10	100	Vertical	Pass
3**	4542.000	40.11	-7.83	54.0	13.89	AV	339.10	100	Vertical	Pass
4	5450.000	49.45	-4.87	74.0	24.55	Peak	29.60	100	Vertical	Pass
4**	5450.000	44.39	-4.87	54.0	9.61	AV	29.60	100	Vertical	Pass
5	6359.000	51.27	-1.96	74.0	22.73	Peak	74.60	100	Vertical	Pass
5**	6359.000	48.12	-1.96	54.0	5.88	AV	74.60	100	Vertical	Pass
6	9526.000	52.34	1.30	74.0	21.66	Peak	3.30	100	Vertical	Pass
6**	9526.000	41.43	1.30	54.0	12.57	AV	3.30	100	Vertical	Pass

Note: The peak value is less than the AV limit, so AV data does not need to be tested.

RE_FCC Test Case_FCC 15C 1GHz-10GHz





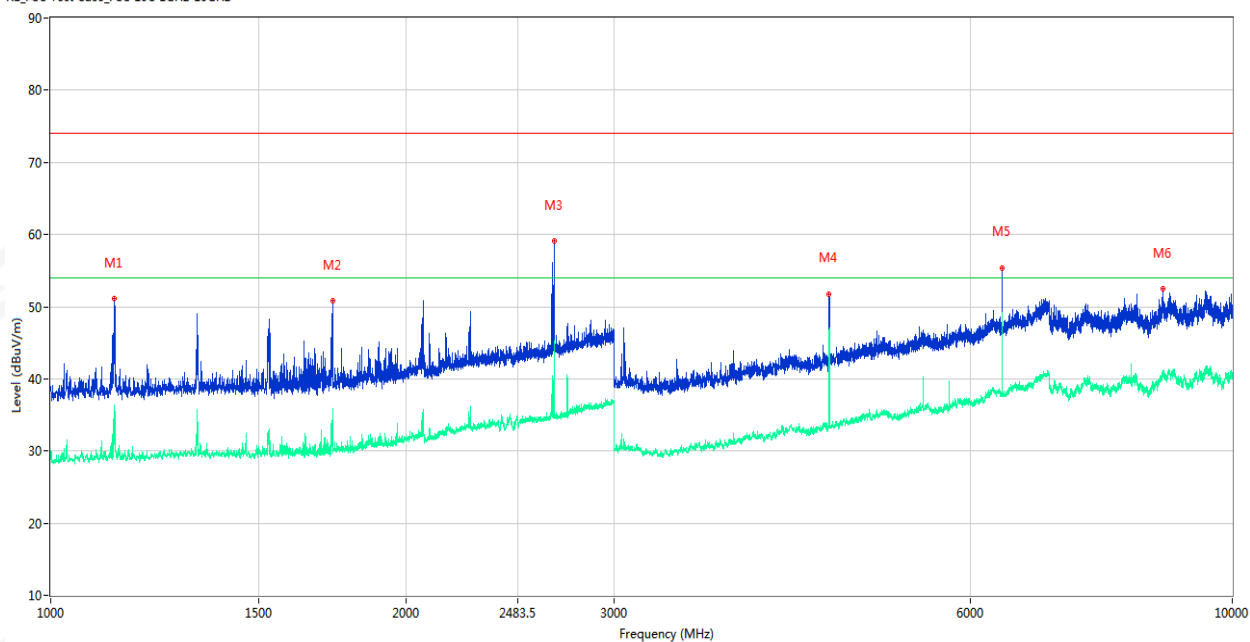
912.00MHz

Horizontal

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1132.500	51.06	-1.70	74.0	22.94	Peak	198.20	100	Horizontal	Pass
1**	1132.500	36.41	-1.70	54.0	17.59	AV	198.20	100	Horizontal	Pass
2	1731.500	50.78	-0.69	74.0	23.22	Peak	142.80	100	Horizontal	Pass
2**	1731.500	35.93	-0.69	54.0	18.07	AV	142.80	100	Horizontal	Pass
3	2666.000	59.05	3.98	74.0	14.95	Peak	129.70	100	Horizontal	Pass
3**	2666.000	45.31	3.98	54.0	8.69	AV	129.70	100	Horizontal	Pass
4	4559.000	51.80	-7.82	74.0	22.20	Peak	219.00	100	Horizontal	Pass
4**	4559.000	46.71	-7.82	54.0	7.29	AV	219.00	100	Horizontal	Pass
5	6386.000	55.41	-1.96	74.0	18.59	Peak	14.70	100	Horizontal	Pass
5**	6386.000	48.82	-1.96	54.0	5.18	AV	14.70	100	Horizontal	Pass
6	8734.000	52.46	0.23	74.0	21.54	Peak	309.90	100	Horizontal	Pass
6**	8734.000	40.82	0.23	54.0	13.18	AV	309.90	100	Horizontal	Pass

Note: The peak value is less than the AV limit, so AV data does not need to be tested.

RE_FCC Test Case_FCC 15C 1GHz-10GHz



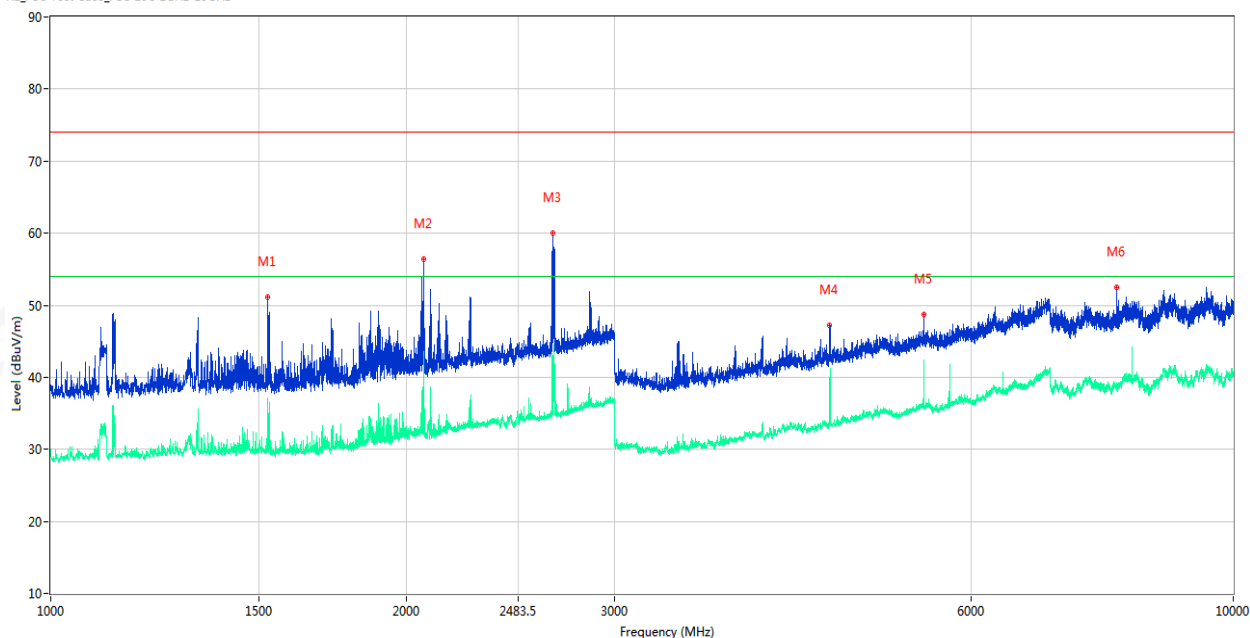


Vertical

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1526.000	51.11	-1.07	74.0	22.89	Peak	181.10	100	Vertical	Pass
1**	1526.000	37.11	-1.07	54.0	16.89	AV	181.10	100	Vertical	Pass
2	2066.000	56.37	0.83	74.0	17.63	Peak	105.20	100	Vertical	Pass
2**	2066.000	43.40	0.83	54.0	10.60	AV	105.20	100	Vertical	Pass
3	2657.000	60.04	3.98	74.0	13.96	Peak	96.60	100	Vertical	Pass
3**	2657.000	42.93	3.98	54.0	11.07	AV	96.60	100	Vertical	Pass
4	4559.000	47.17	-7.82	74.0	26.83	Peak	187.80	100	Vertical	Pass
4**	4559.000	39.91	-7.82	54.0	14.09	AV	187.80	100	Vertical	Pass
5	5474.000	48.76	-4.76	74.0	25.24	Peak	141.70	100	Vertical	Pass
5**	5474.000	39.61	-4.76	54.0	14.39	AV	141.70	100	Vertical	Pass
6	7972.750	52.42	-0.87	74.0	21.58	Peak	212.30	100	Vertical	Pass
6**	7972.750	39.24	-0.87	54.0	14.76	AV	212.30	100	Vertical	Pass

Note: The peak value is less than the AV limit, so AV data does not need to be tested.

RE_FCC Test Case_FCC 15C 1GHz-10GHz





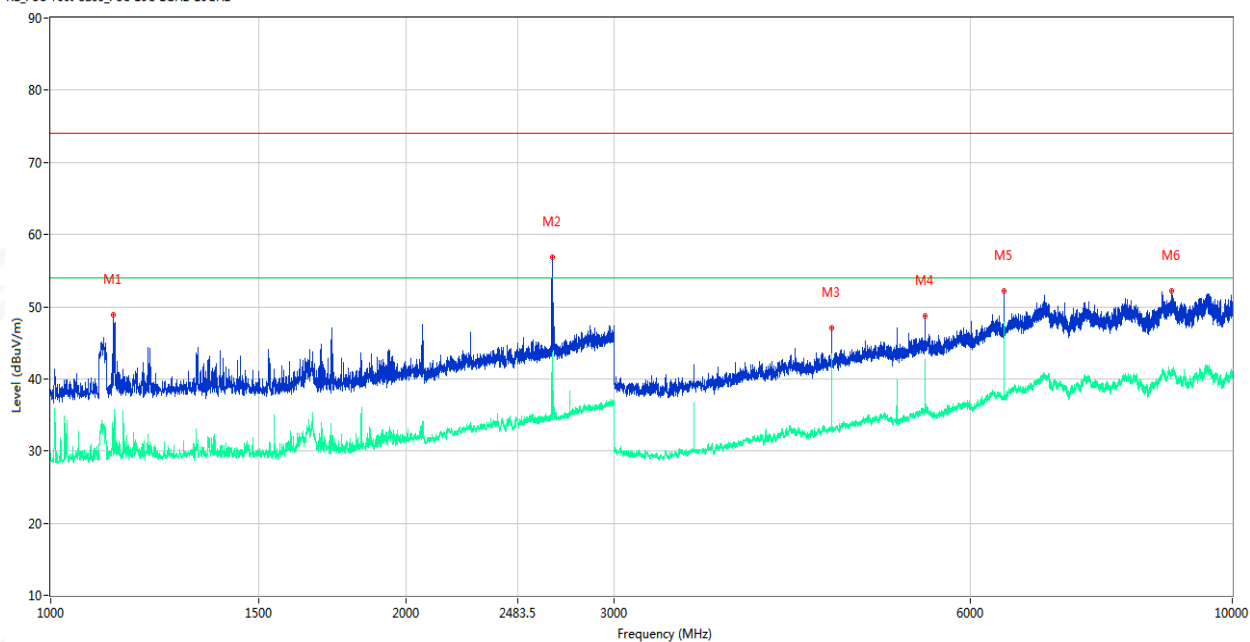
916.00MHz

Horizontal

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1130.000	48.84	-1.71	74.0	25.16	Peak	146.20	100	Horizontal	Pass
1**	1130.000	33.24	-1.71	54.0	20.76	AV	146.20	100	Horizontal	Pass
2	2656.000	56.85	3.98	74.0	17.15	Peak	134.30	100	Horizontal	Pass
2**	2656.000	43.59	3.98	54.0	10.41	AV	134.30	100	Horizontal	Pass
3	4580.000	46.99	-7.81	74.0	27.01	Peak	344.00	100	Horizontal	Pass
3**	4580.000	43.43	-7.81	54.0	10.57	AV	344.00	100	Horizontal	Pass
4	5499.000	48.73	-4.65	74.0	25.27	Peak	194.00	100	Horizontal	Pass
4**	5499.000	41.61	-4.65	54.0	12.39	AV	194.00	100	Horizontal	Pass
5	6413.000	52.11	-1.86	74.0	21.89	Peak	236.80	100	Horizontal	Pass
5**	6413.000	44.83	-1.86	54.0	9.17	AV	236.80	100	Horizontal	Pass
6	8892.250	52.23	1.54	74.0	21.77	Peak	180.40	100	Horizontal	Pass
6**	8892.250	40.84	1.54	54.0	13.16	AV	180.40	100	Horizontal	Pass

Note: The peak value is less than the AV limit, so AV data does not need to be tested.

RE_FCC Test Case_FCC 15C 1GHz-10GHz



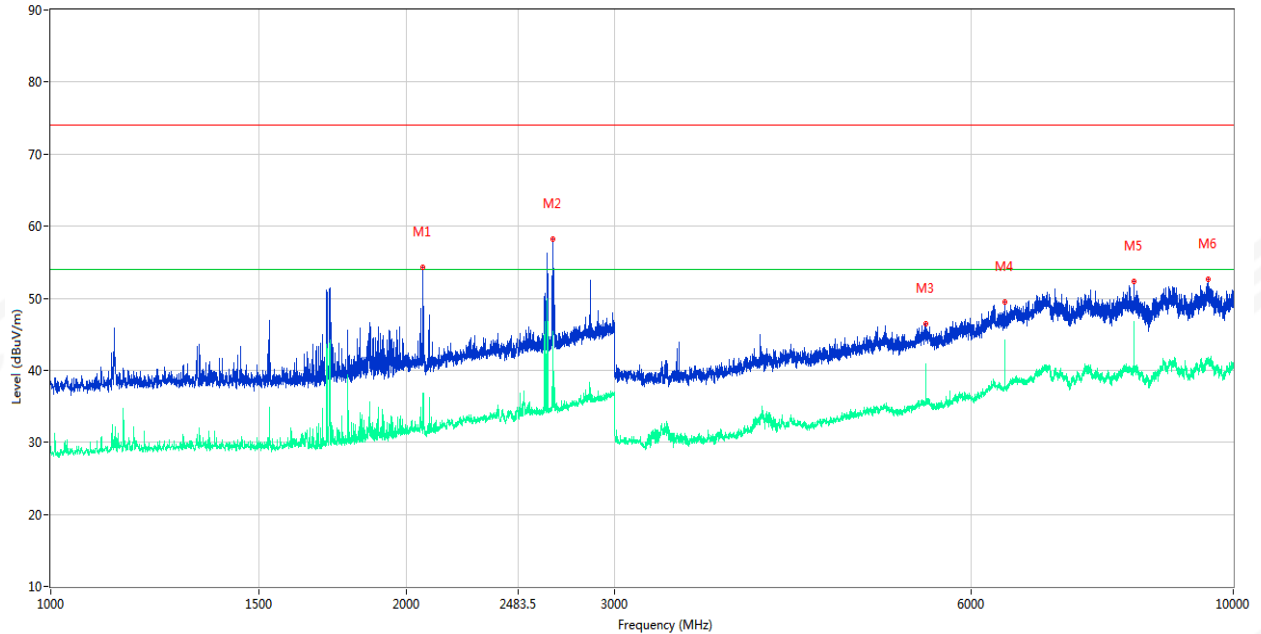


Vertical

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2064.500	54.24	0.83	74.0	19.76	Peak	107.00	100	Vertical	Pass
1**	2064.500	36.82	0.83	54.0	17.18	AV	107.00	100	Vertical	Pass
2	2658.500	58.16	3.98	74.0	15.84	Peak	315.30	100	Vertical	Pass
2**	2658.500	45.41	3.98	54.0	8.59	AV	315.30	100	Vertical	Pass
3	5496.000	46.43	-4.67	74.0	27.57	Peak	359.20	100	Vertical	Pass
3**	5496.000	40.88	-4.67	54.0	13.12	AV	359.20	100	Vertical	Pass
4	6412.000	49.51	-1.86	74.0	24.49	Peak	244.70	100	Vertical	Pass
4**	6412.000	44.18	-1.86	54.0	9.82	AV	244.70	100	Vertical	Pass
5	8243.500	52.30	-0.47	74.0	21.70	Peak	79.40	100	Vertical	Pass
5**	8243.500	46.47	-0.47	54.0	7.53	AV	79.40	100	Vertical	Pass
6	9516.250	52.58	1.39	74.0	21.42	Peak	360.00	100	Vertical	Pass
6**	9516.250	41.72	1.39	54.0	12.28	AV	360.00	100	Vertical	Pass

Note: The peak value is less than the AV limit, so AV data does not need to be tested.

RE_FCC Test Case_FCC 15C 1GHz-10GHz





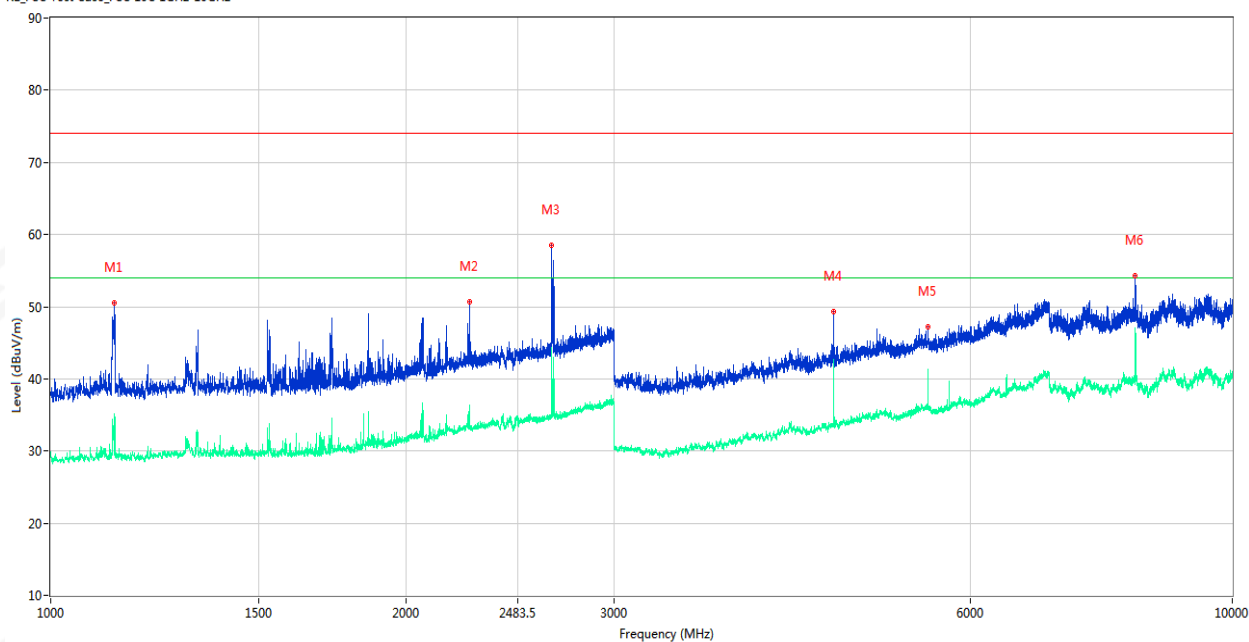
920.00MHz

Horizontal

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1131.000	50.57	-1.71	74.0	23.43	Peak	206.30	100	Horizontal	Pass
1**	1131.000	35.22	-1.71	54.0	18.78	AV	206.30	100	Horizontal	Pass
2	2262.500	50.72	2.18	74.0	23.28	Peak	90.60	100	Horizontal	Pass
2**	2262.500	36.39	2.18	54.0	17.61	AV	90.60	100	Horizontal	Pass
3	2654.500	58.55	3.98	74.0	15.45	Peak	121.80	100	Horizontal	Pass
3**	2654.500	44.36	3.98	54.0	9.64	AV	121.80	100	Horizontal	Pass
4	4601.000	49.31	-7.80	74.0	24.69	Peak	8.70	100	Horizontal	Pass
4**	4601.000	42.62	-7.80	54.0	11.38	AV	8.70	100	Horizontal	Pass
5	5524.000	47.29	-4.70	74.0	26.71	Peak	321.90	100	Horizontal	Pass
5**	5524.000	41.33	-4.70	54.0	12.67	AV	321.90	100	Horizontal	Pass
6	8278.000	54.31	-0.34	74.0	19.69	Peak	239.00	100	Horizontal	Pass
6**	8278.000	47.06	-0.34	54.0	6.94	AV	239.00	100	Horizontal	Pass

Note: The peak value is less than the AV limit, so AV data does not need to be tested.

RE_FCC Test Case_FCC 15C 1GHz-10GHz



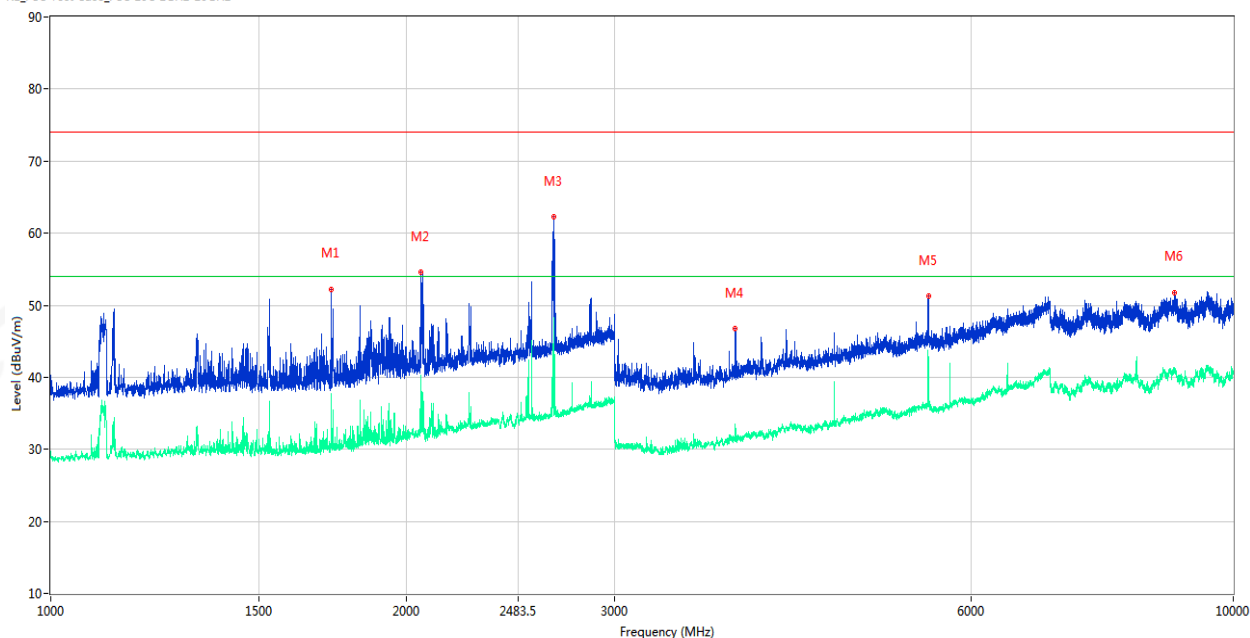


Vertical

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1727.000	52.25	-0.73	74.0	21.75	Peak	150.30	100	Vertical	Pass
1**	1727.000	37.69	-0.73	54.0	16.31	AV	150.30	100	Vertical	Pass
2	2056.500	54.63	0.82	74.0	19.37	Peak	97.80	100	Vertical	Pass
2**	2056.500	40.22	0.82	54.0	13.78	AV	97.80	100	Vertical	Pass
3	2661.000	62.29	3.98	74.0	11.71	Peak	93.30	100	Vertical	Pass
3**	2661.000	48.23	3.98	54.0	5.77	AV	93.30	100	Vertical	Pass
4	3792.000	46.76	-10.61	74.0	27.24	Peak	126.30	100	Vertical	Pass
4**	3792.000	33.51	-10.61	54.0	20.49	AV	126.30	100	Vertical	Pass
5	5522.000	51.21	-4.69	74.0	22.79	Peak	6.30	100	Vertical	Pass
5**	5522.000	42.18	-4.69	54.0	11.82	AV	6.30	100	Vertical	Pass
6	8914.750	51.79	1.39	74.0	22.21	Peak	214.60	100	Vertical	Pass
6**	8914.750	41.13	1.39	54.0	12.87	AV	214.60	100	Vertical	Pass

Note: The peak value is less than the AV limit, so AV data does not need to be tested.

RE_FCC Test Case_FCC 15C 1GHz-10GHz





Duty cycle

Ton (ms)	Tp (ms)	Duty cycle(%)	Duty Factor
7	255	2.75%	31.23

Note: Duty Factor=20*LOG10(1/(Ton/Tp))

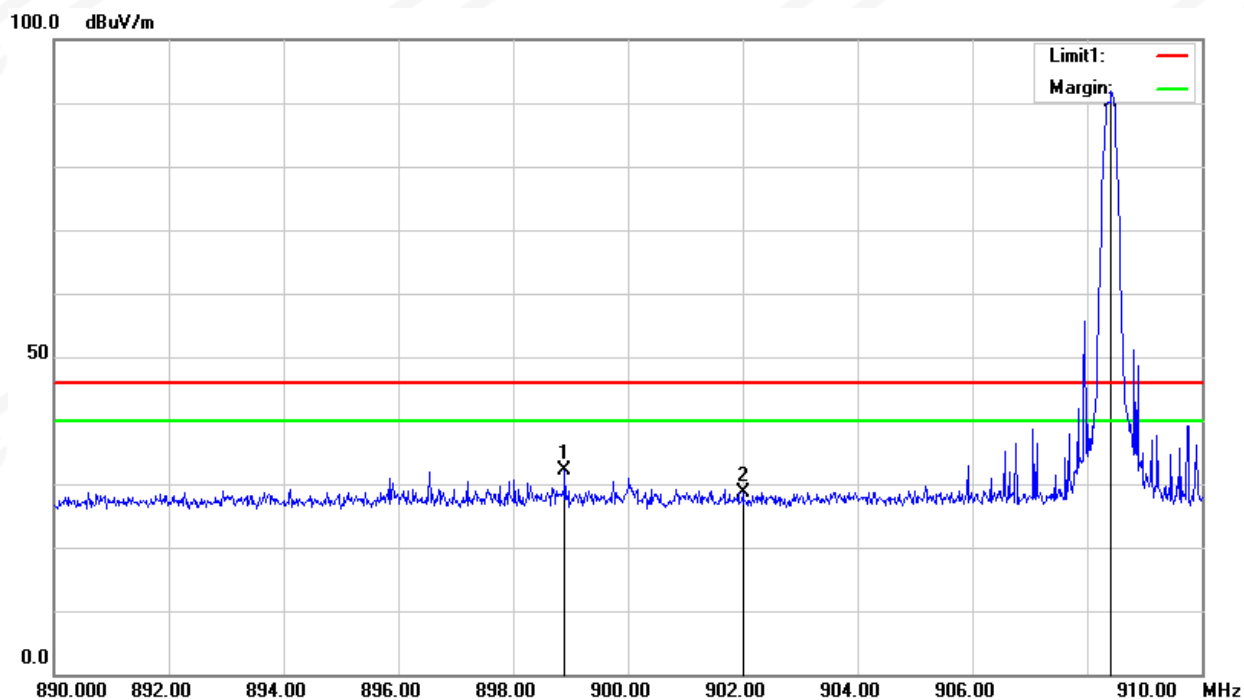




(Radiation Band edge)

908.40MHz

Horizontal



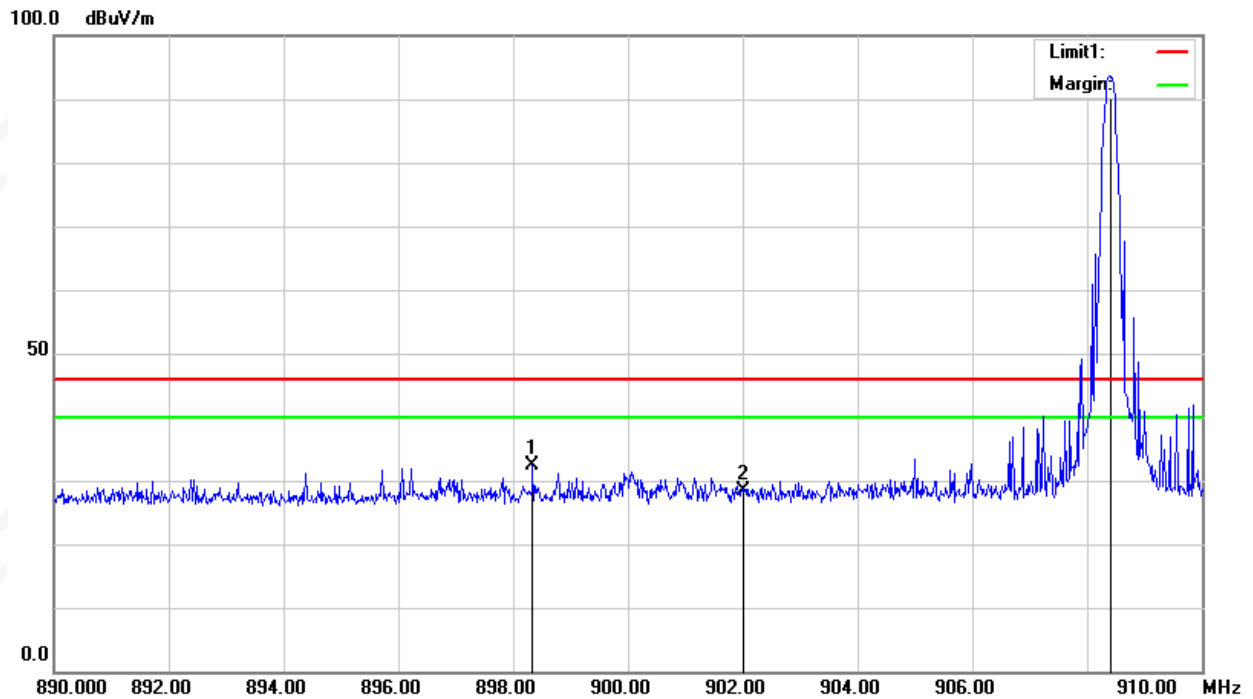
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	898.9000	32.51	-0.48	32.03	46.00	-13.97	peak
2	902.0000	28.97	-0.40	28.57	46.00	-17.43	peak

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3	908.4000	90.39	-0.23	-	90.16	94	-3.84	QP



Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	898.3400	32.84	-0.49	32.35	46.00	-13.65	peak
2	902.0000	28.74	-0.40	28.34	46.00	-17.66	peak

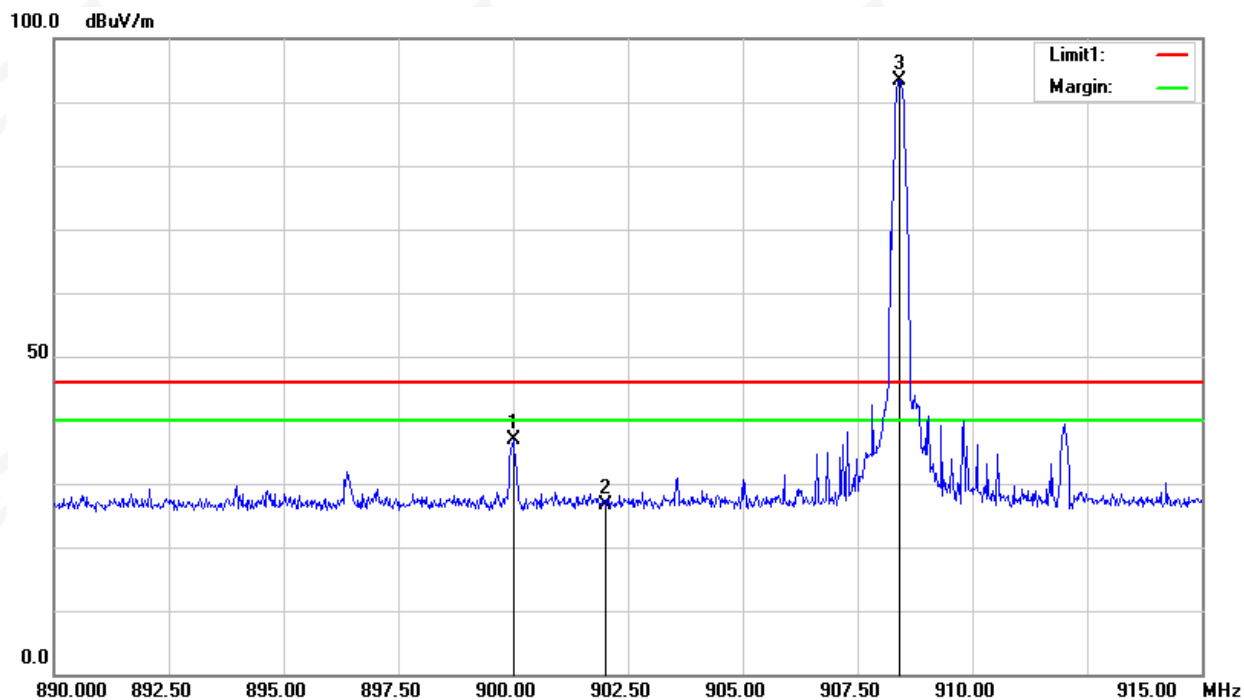
Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3	908.4000	93.70	-0.23	-	93.47	94	-0.53	QP



908.42MHz

Horizontal



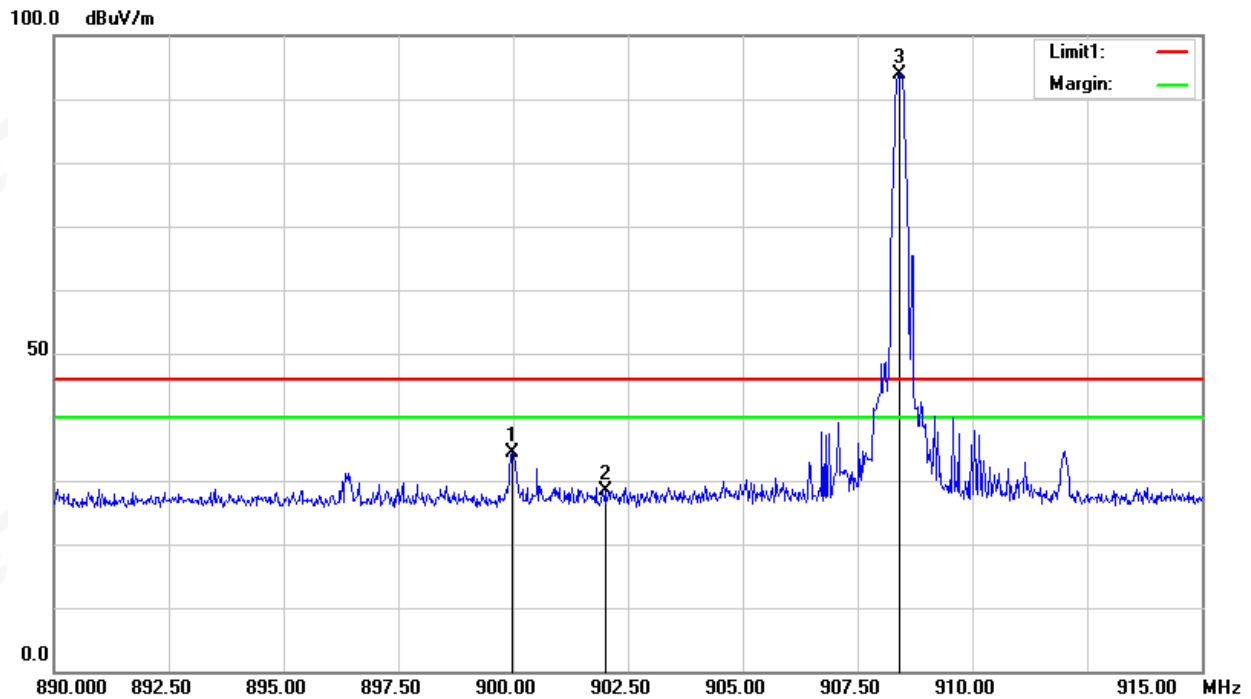
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	900.0000	37.29	-0.45	36.84	46.00	-9.16	peak
2	902.0000	27.03	-0.40	26.63	46.00	-19.37	peak

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3	908.4200	93.60	-0.22	-	93.38	94	-0.62	QP



Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	899.9750	34.80	-0.45	34.35	46.00	-11.65	peak
2	902.0000	28.86	-0.40	28.46	46.00	-17.54	peak

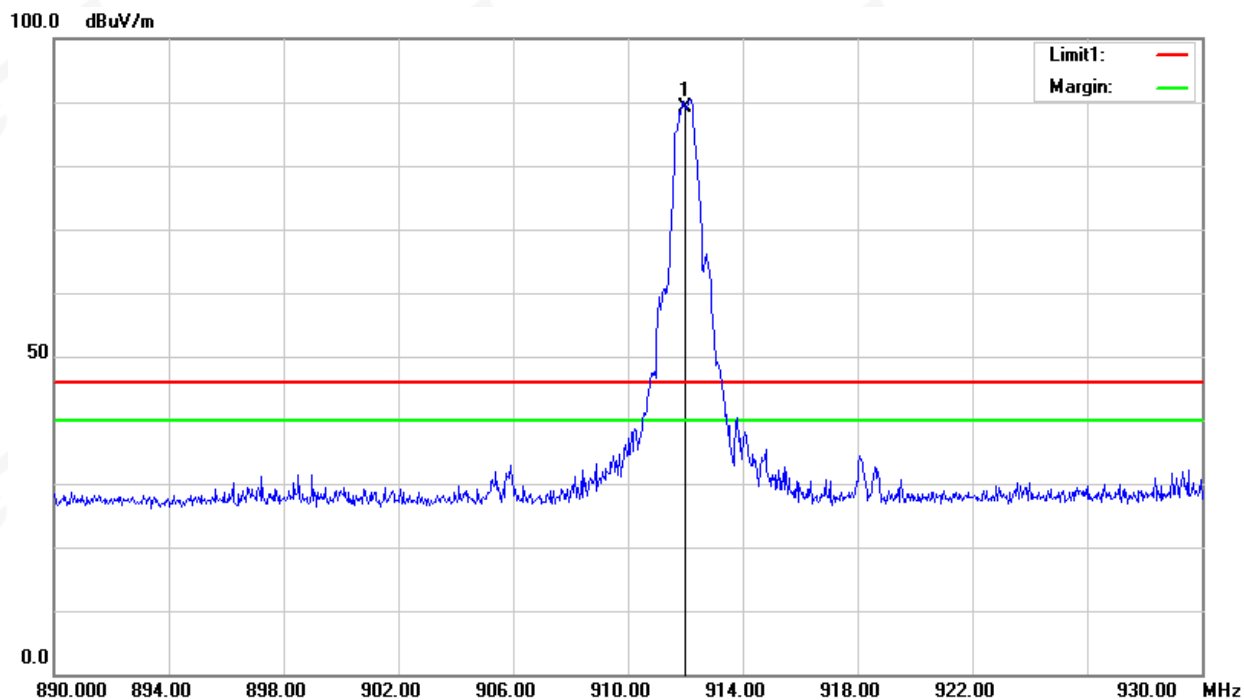
Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3	908.4200	94.13	-0.22	-	93.91	94	-0.09	QP



912.00MHz

Horizontal

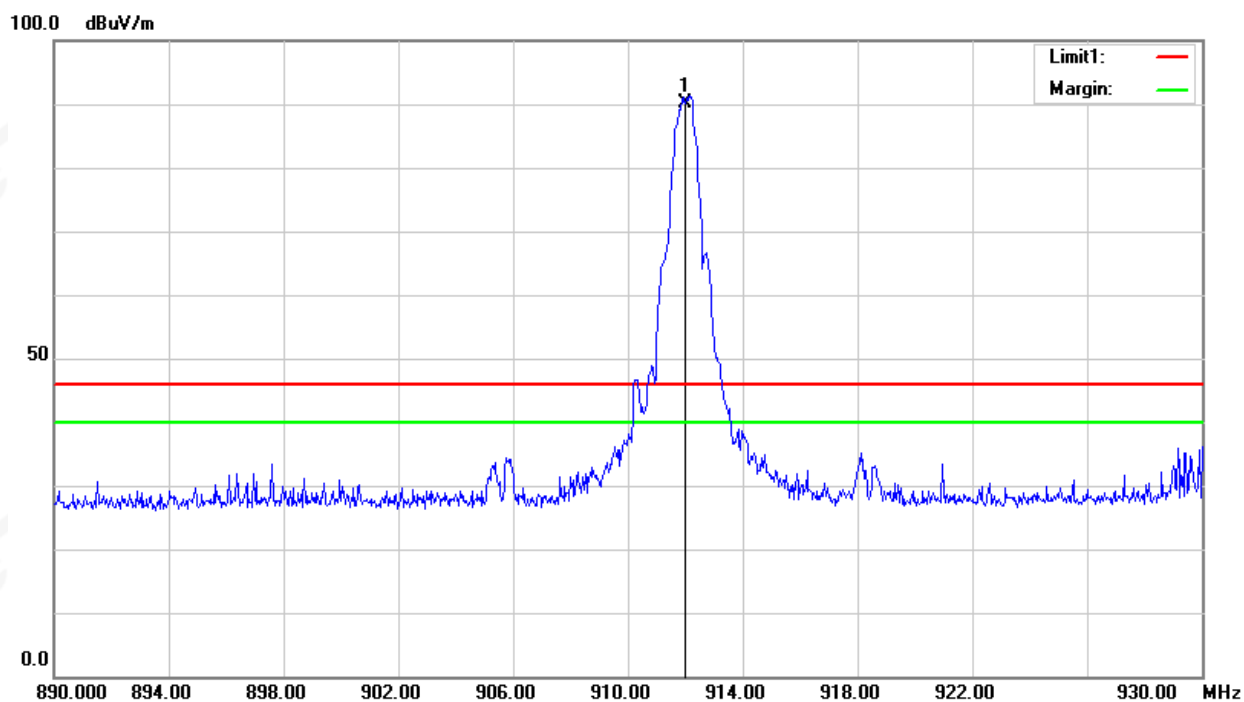


Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	912.0000	89.36	-0.16	-	89.20	94	-4.80	QP



Vertical



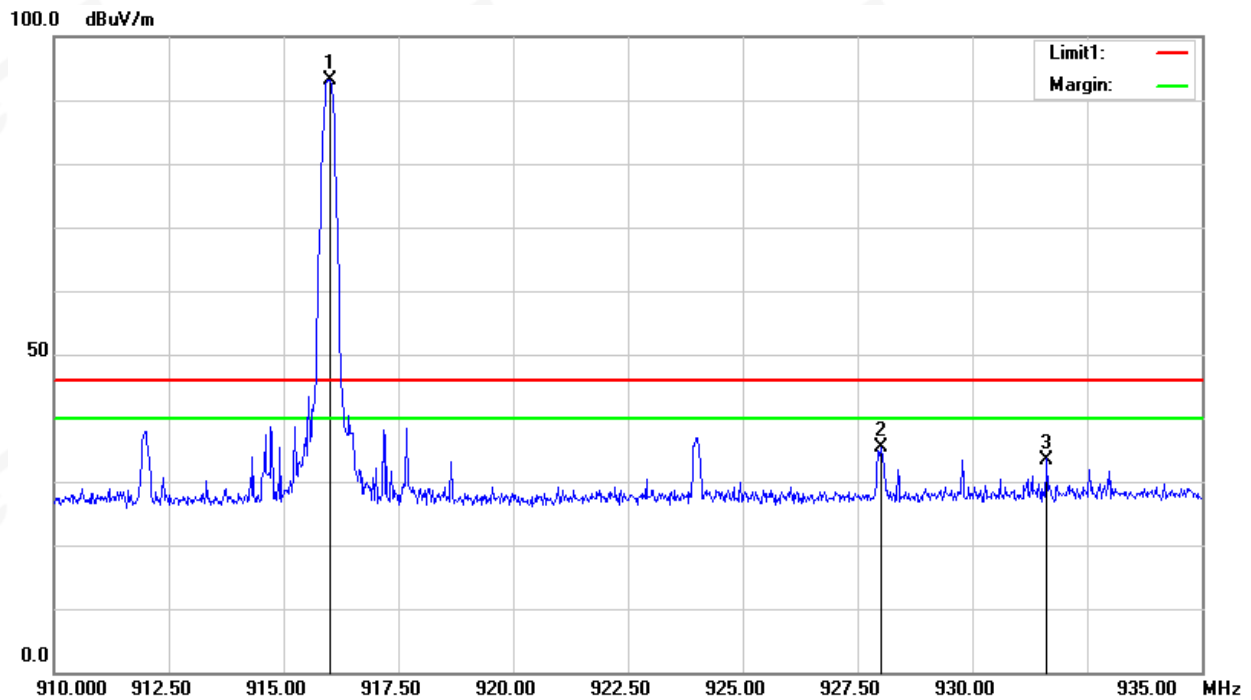
Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	912.0000	90.25	-0.16	-	90.09	94	-3.94	QP



916.00MHz

Horizontal



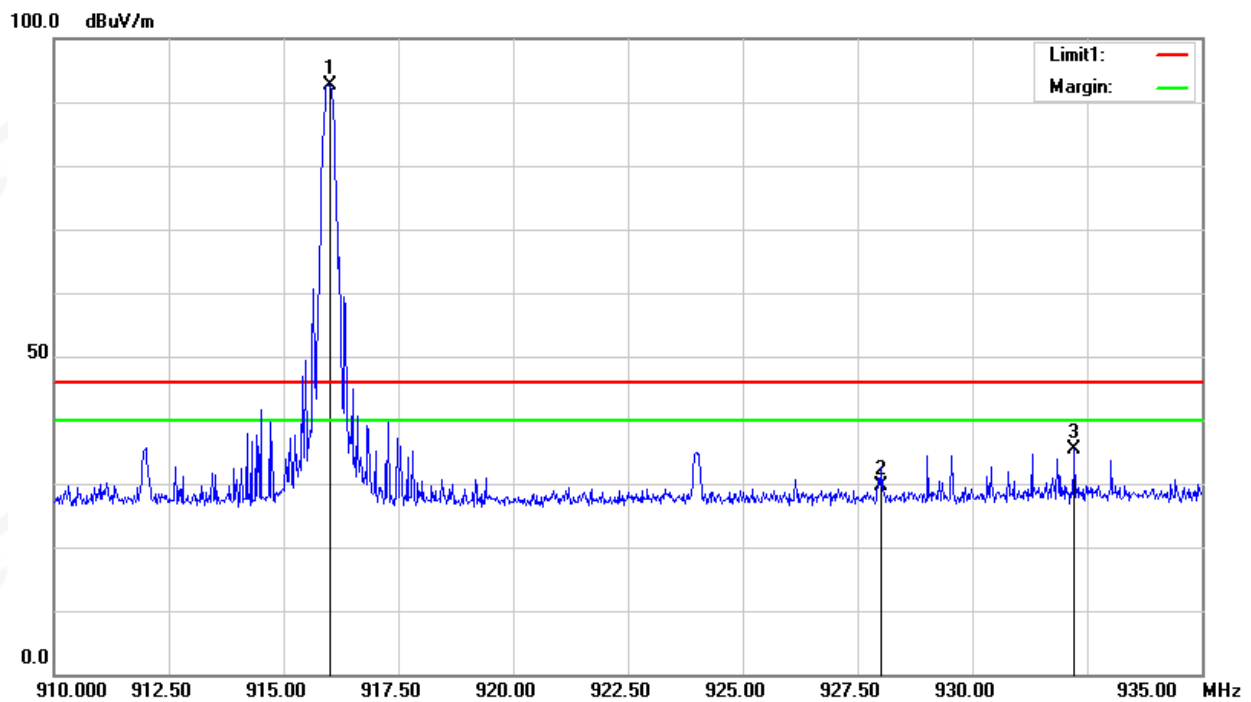
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2	928.0000	34.90	0.43	35.33	46.00	-10.67	peak
3	931.6250	32.82	0.68	33.50	46.00	-12.50	peak

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	916.0000	93.22	-0.09	-	93.13	94	-0.87	QP



Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2	928.0000	29.27	0.43	29.70	46.00	-16.30	peak
3	932.2250	34.66	0.73	35.39	46.00	-10.61	peak

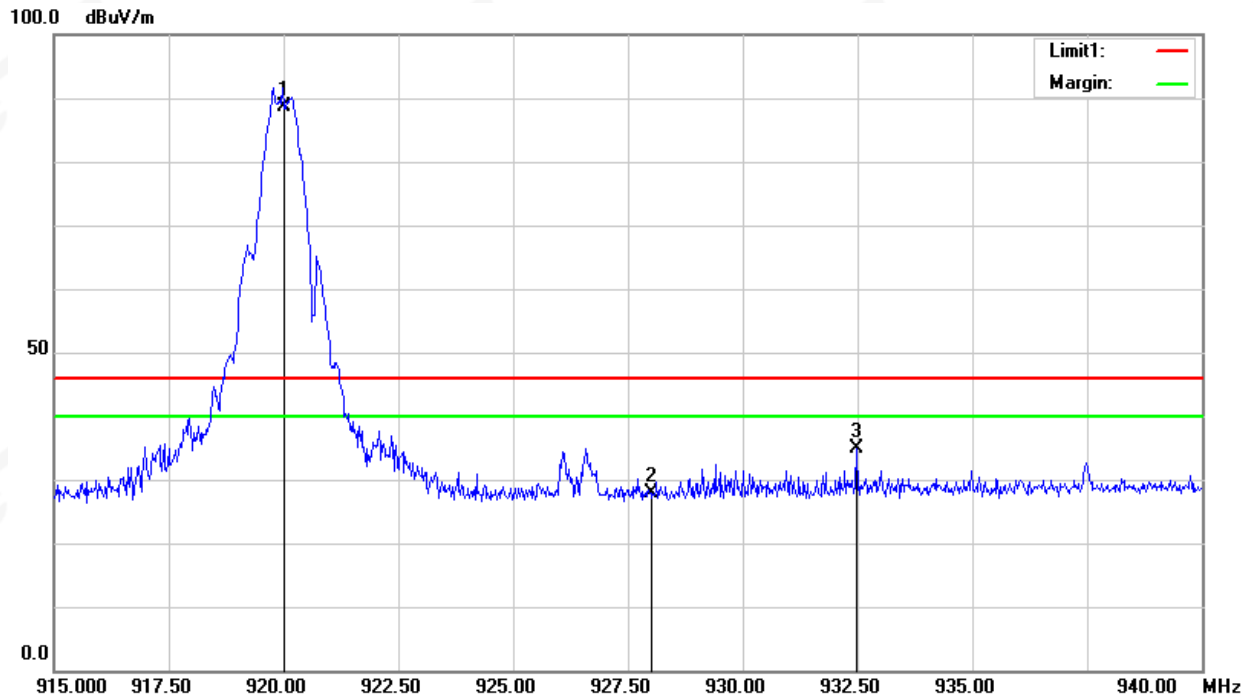
Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	916.0000	92.81	-0.09	-	92.72	94	-1.28	QP



920.00MHz

Horizontal



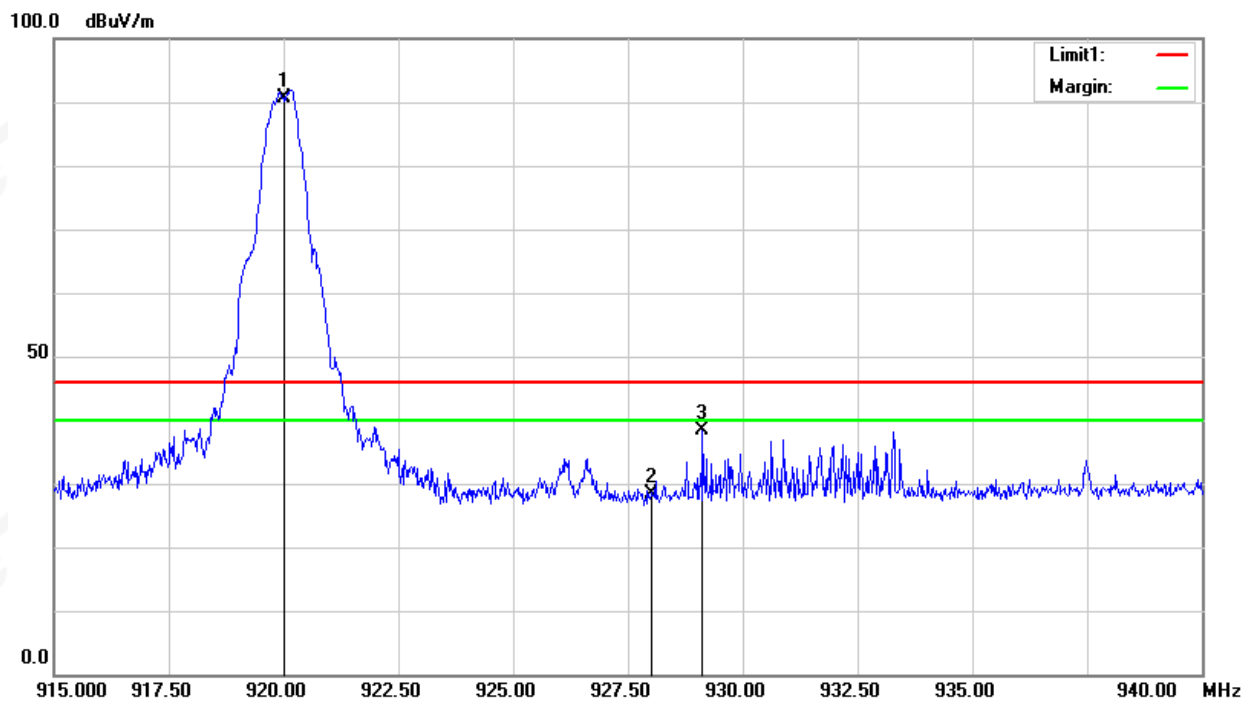
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2	928.0000	27.47	0.43	27.90	46.00	-18.10	peak
3	932.4750	34.20	0.75	34.95	46.00	-11.05	peak

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	920.0000	88.72	-0.02	-	88.70	94	-5.30	QP



Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2	928.0000	27.89	0.43	28.32	46.00	-17.68	peak
3	929.1250	37.82	0.50	38.32	46.00	-7.68	peak

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	920.0000	90.70	-0.02	-	90.68	94	-3.32	QP



4. BANDWIDTH TEST

4.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting : RBW= 1% to 5% OBW, VBW $\geq$ RBW, Sweep time = Auto.

4.2 TEST SETUP



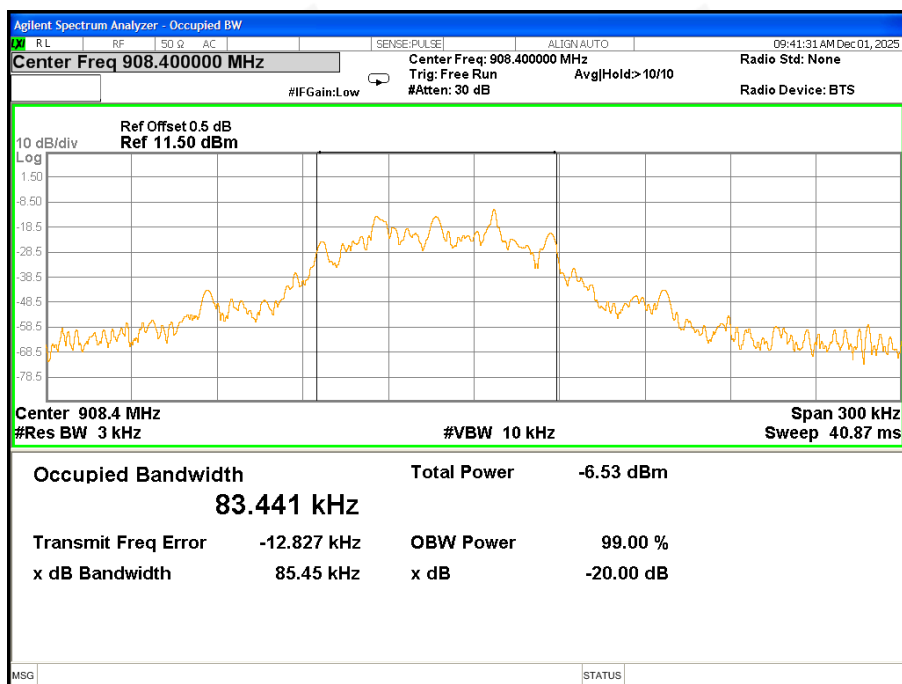
4.3 EUT OPERATION CONDITIONS TX mode.



4.4 TEST RESULTS

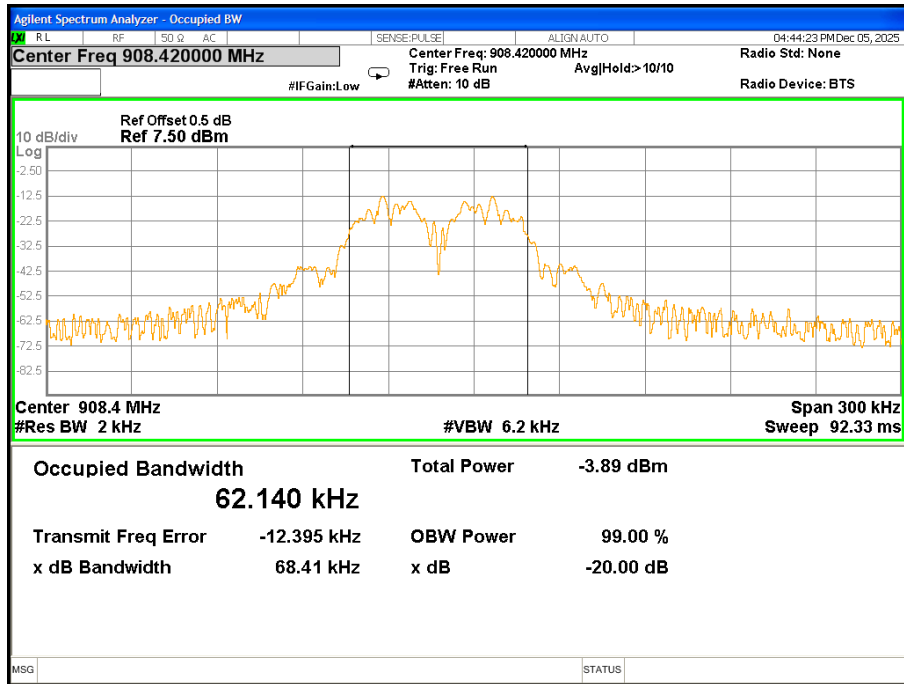
Test Channel	Frequency(MHz)	20dB Bandwidth(KHz)	99% Bandwidth(KHz)
CH01	908.4	85.45	83.441
CH02	908.42	68.41	62.14
CH03	912	1030	910.57
CH04	916	106.6	109.83
CH05	920	994.4	898.72

CH01

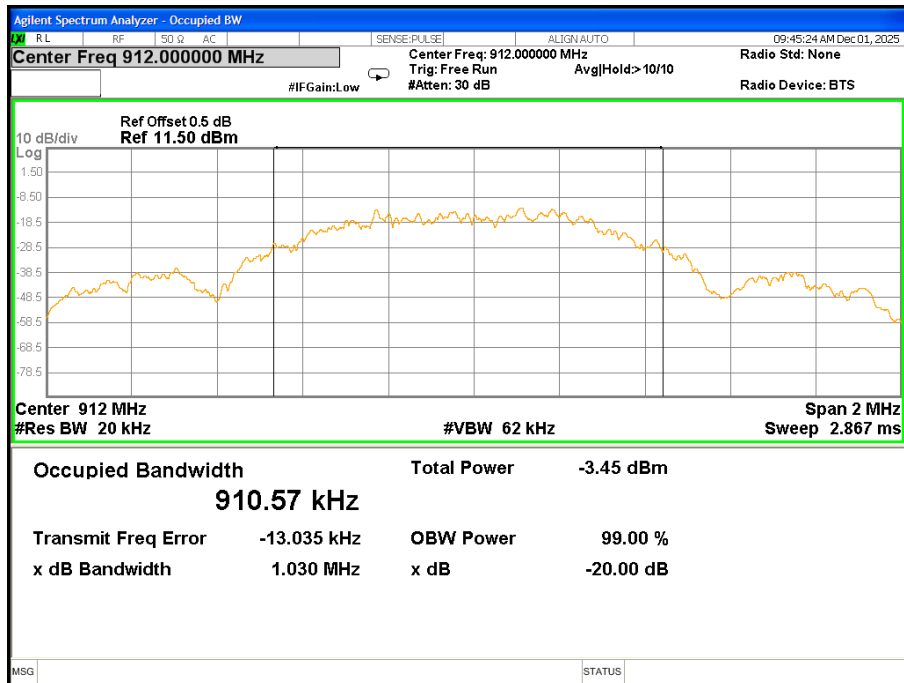




CH02

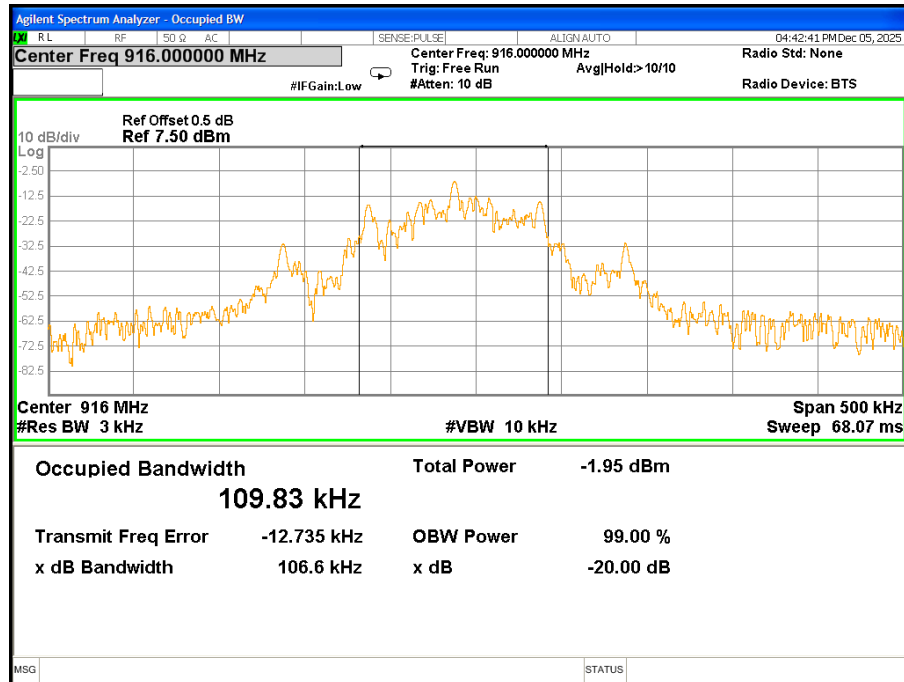


CH03



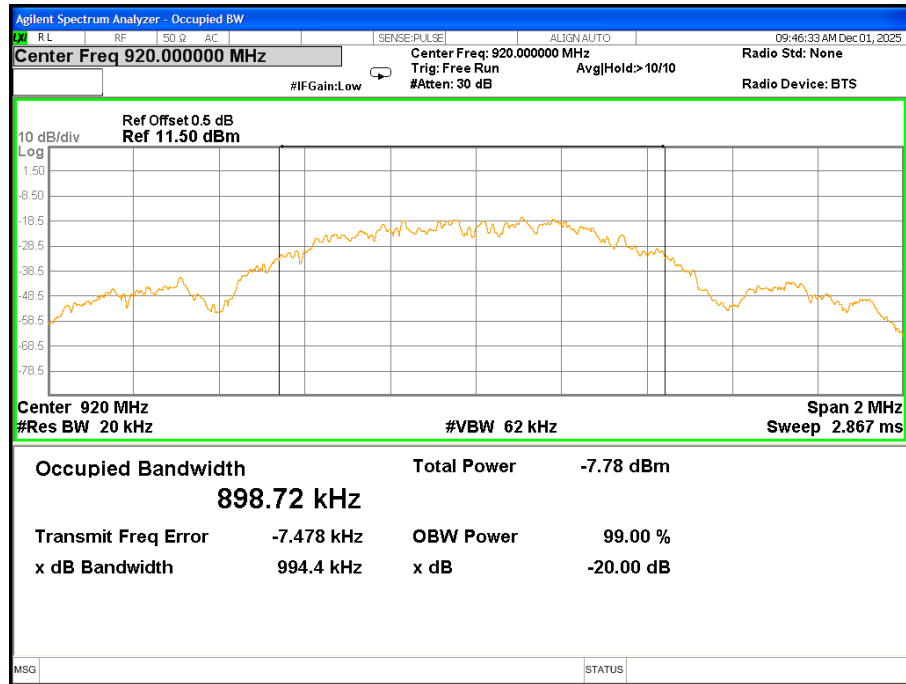


CH04





CH05





5. ANTENNA REQUIREMENT

5.1 STANDARD REQUIREMENT

According to the FCC Part 15 Paragraph 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.

5.2 EUT ANTENNA

The EUT antenna is spring Antenna. It conforms to the standard requirements.



APPENDIX- PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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