



FCC PART 15C TEST REPORT

Issued to

SZ DJI TECHNOLOGY CO.,LTD

For

5.8G Transmitter

Model Name: PVT581
 Trade Name: DJI
 Brand Name: DJI
 FCC ID: SS3-201309581
 Standard: 47 CFR Part 15 Subpart C
 Test date: 2013-9-3 to 2013-9-26
 Issue date: 2013-9-26

By
Shenzhen MORLAB Communication Technology Co., Ltd.



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Date 2013.9.26

Date

2013.9.26

Date

2013.9.26



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Change History		
Issue	Date	Reason for change
1.0	September 26, 2013	First edition

1. General Information

1.1. EUT Description

EUT Type: 5.8G Transmitter
 Serial No.....: (n.a, marked #1 by test site)
 Hardware Version.....: V2.0
 Software Version: V1.0
 Applicant: SZ DJI TECHNOLOGY CO.,LTD
 Room 613、 614, 6/F, HKUST SZ IER Bldg, No.9 Yuexing 1st Rd
 Hi-Tech Park(South), Nanshan District, Shenzhen, Guangdong,
 China
 Manufacturer: SZ DJI TECHNOLOGY CO.,LTD(Baoan Branch)
 Room 311~320,Office Bldg.,Zhongyuntai Industrial Park,Songbai
 Rd.,Shiyan Town, Bao'an District, Shenzhen, Guangdong, China
 Frequency Range.....: 5728MHz~5844MHz
 Channel Number.....: 16
 Modulation Type: GFSK
 Antenna Type.....: Dipole Antenna
 Antenna Gain.....: 2.0dBi

Note 1: For a more detailed description, please refer to Specification or User’s Manual supplied by the applicant and/or manufacturer.

Note 2: The antenna connector of EUT is designed with permanent attachment and no consideration of replacement.

Channel list			
Channel No.	Frequency/MHz	Channel No.	Frequency/MHz
1	5728	9	5793
2	5733	10	5801
3	5742	11	5804
4	5750	12	5810
5	5757	13	5818
6	5759	14	5827
7	5773	15	5835
8	5784	16	5844

1.2. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-12 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	15.203	Antenna Requirement	PASS
2	15.247(b)	Peak Output Power	PASS
3	15.247(a)	Bandwidth	PASS
4	15.247(d)	Conducted Spurious Emission and Band edge	PASS
5	15.207	Conducted Emission	N/A
6	15.209 ,15.247(d)	Radiated Emission	PASS
7	15.247(e)	Power spectral density (PSD)	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.4 2009.

These RF tests were performed according to the method of measurements prescribed in KDB558074 D01 V02 10/04/2012.

1.3. Facilities and Accreditations

1.3.1. Facilities

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10 2009, ANSI C63.4 2009 and CISPR Publication 22; the FCC registration number is 695796.

1.3.2. Test Environment Conditions

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR Part 15C Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 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 shall be considered sufficient to comply with the provisions of this section.

2.1.2. Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Peak Output Power

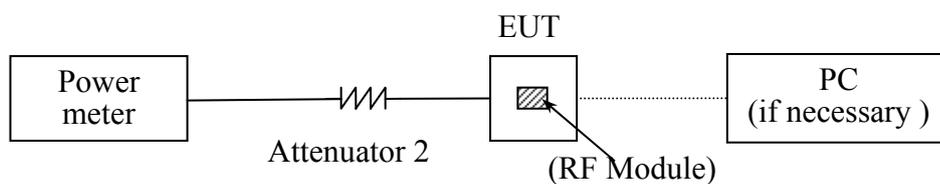
2.2.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

2.2.2. Test Description

The measured output power was calculated by the reading of the Power Meter and calibration.

A. Test Setup:



The EUT (Equipment under the test) which is powered by the Battery is coupled to the Power Meter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in power meter.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EPM Series Power Meter	Agilent	E4418B	GB43318055	2013.05.12	2014.05.11
Power Sensor	Agilent	8482A	MY41091706	2013.05.12	2014.05.11

2.2.3. Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	5728	17.26	0.053211	30	1	PASS
8	5784	17.39	0.054828			PASS
16	5844	17.69	0.058749			PASS

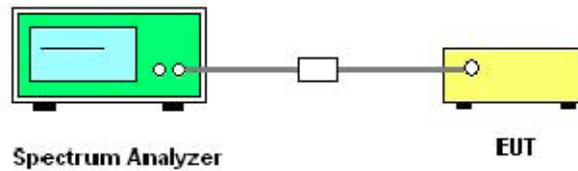
2.3. Bandwidth

2.3.1. Requirement

According to FCC section 15.247(a) (2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

2.3.2. Test Description

A. Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4447A	US62552411	2013.05.12	2014.05.11

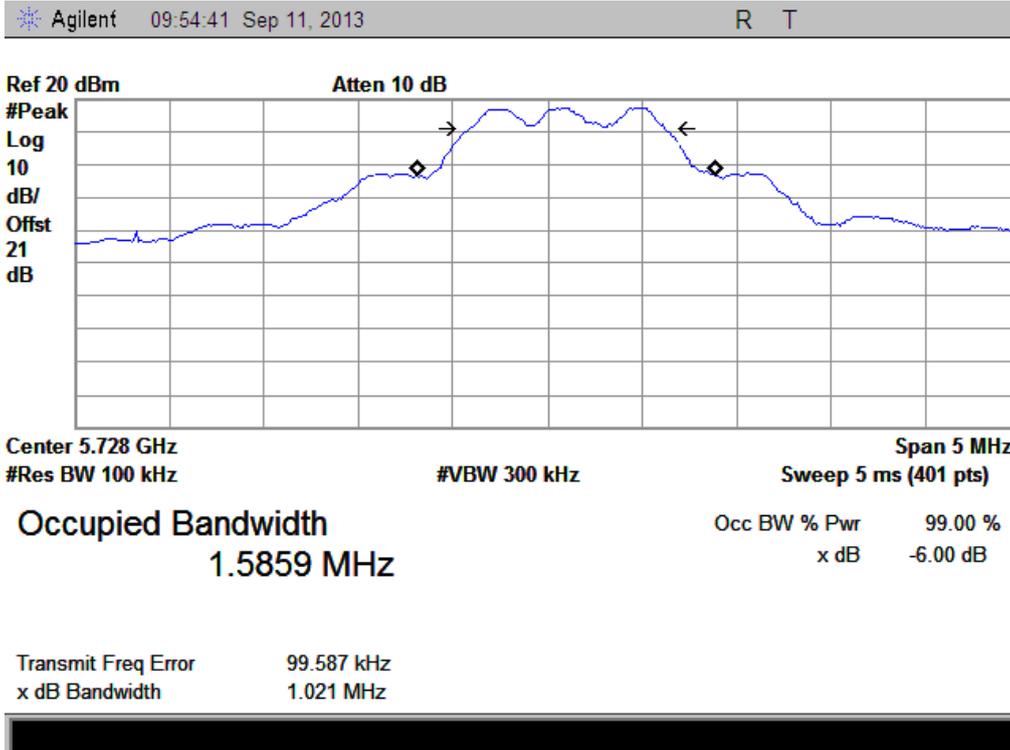
2.3.3. Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

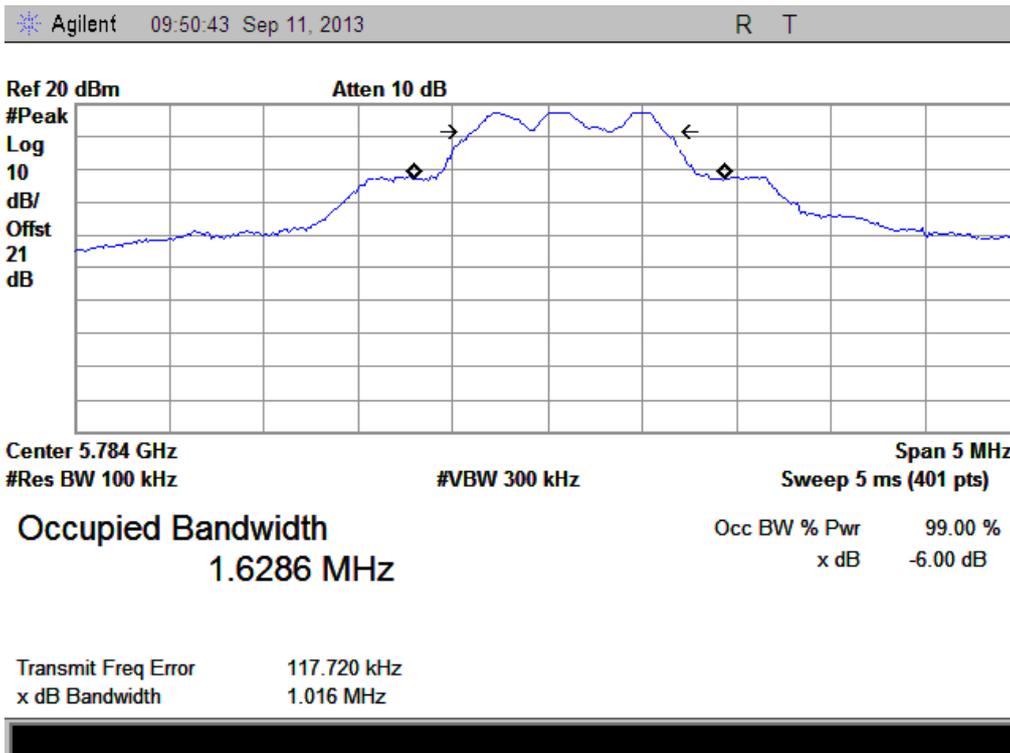
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Refer to Plot	Limits(kHz)	Result
1	5728	1.021	Plot A	≥ 500	PASS
8	5784	1.016	Plot B	≥ 500	PASS
16	5844	1.036	Plot C	≥ 500	PASS

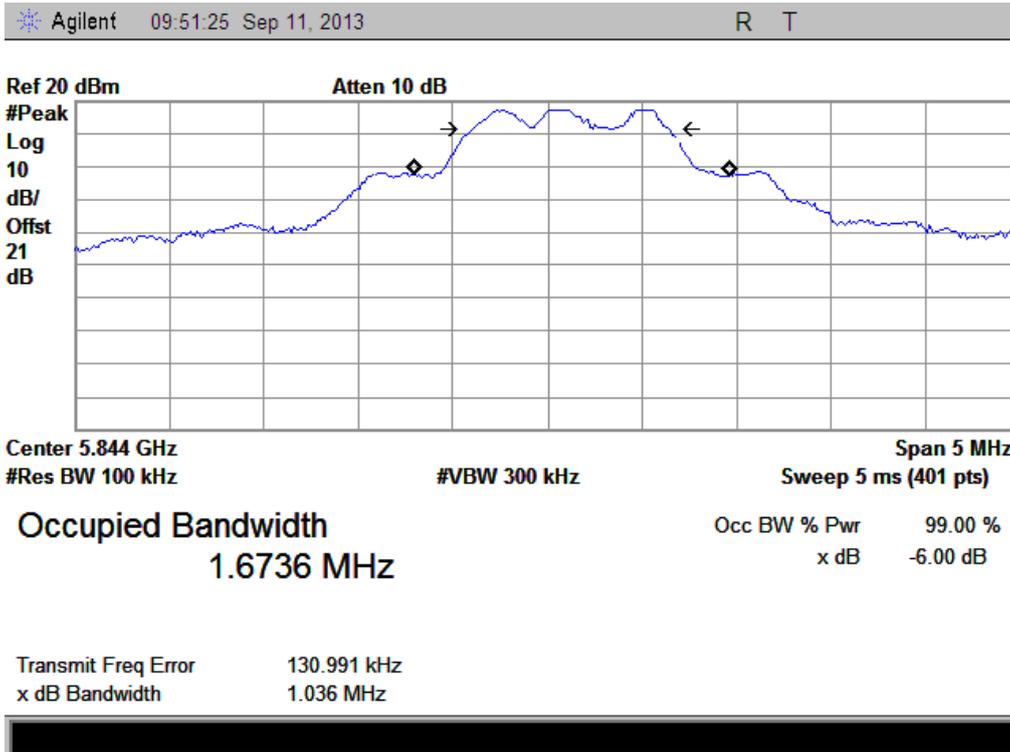
B. Test Plots



(Plot A: Channel 1: 2405.376MHz)



(Plot B: Channel 18: 2440.192MHz)



(Plot C: Channel 36: 2477.056MHz)

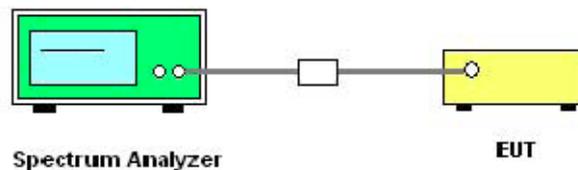
2.4. Conducted Spurious Emissions and Band Edge

2.4.1. Requirement

According to FCC section 15.247(c), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

2.4.2. Test Description

A. Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4447A	US62552411	2013.05.12	2014.05.11

2.4.3. Test Result

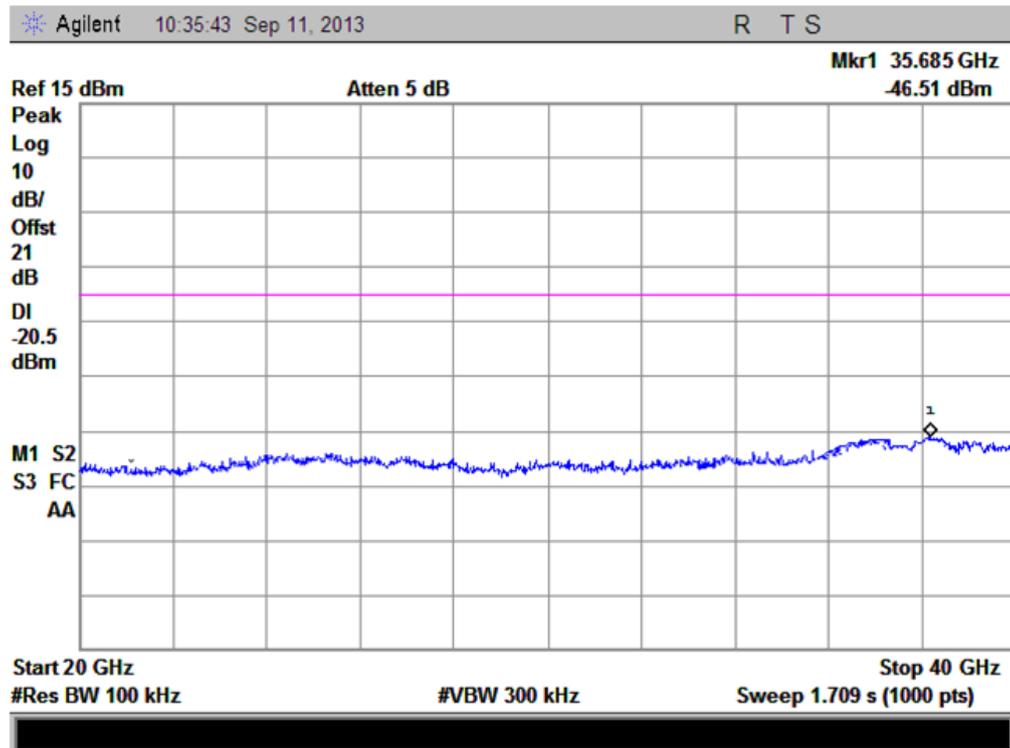
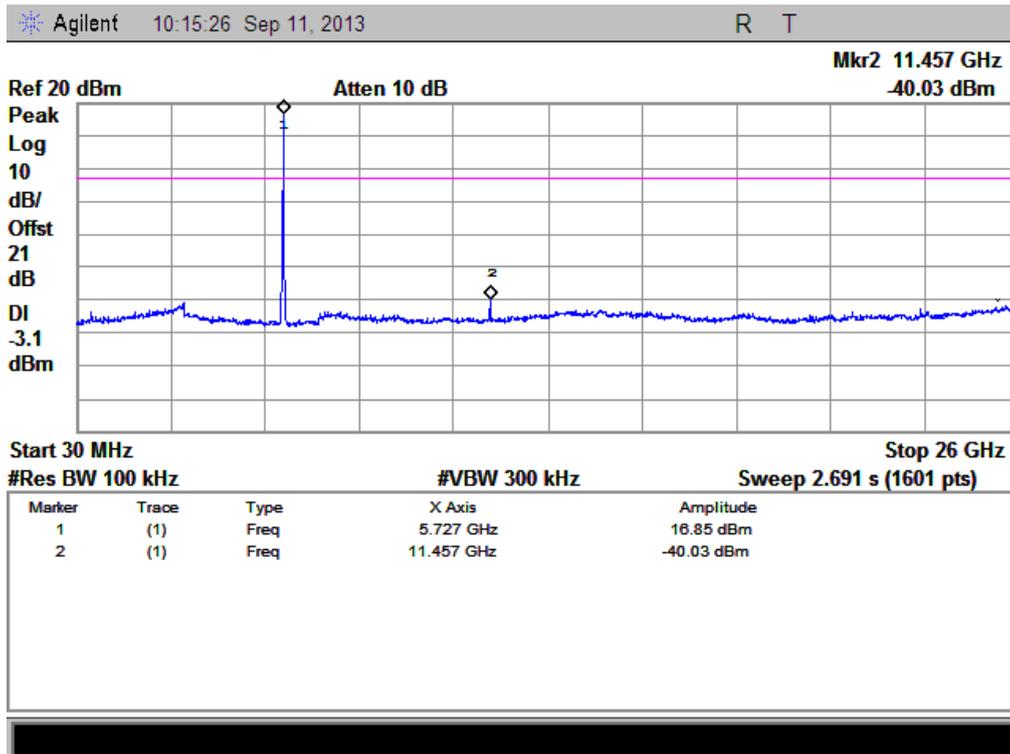
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

A. Test Verdict:

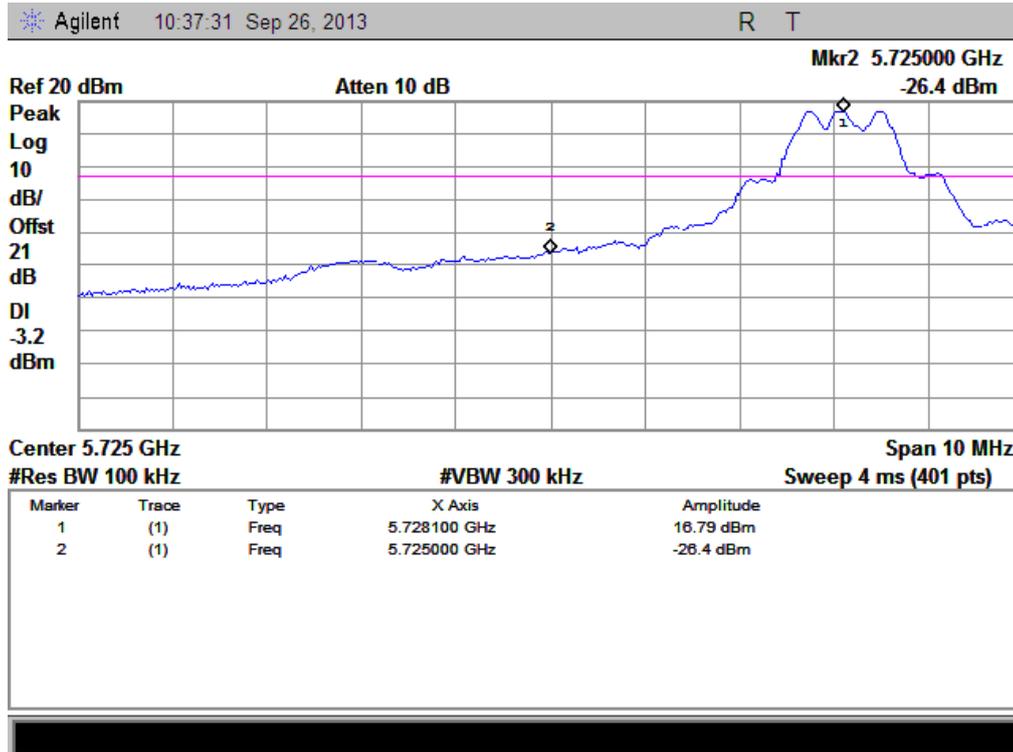
Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Refer to Plot	Limit (dBm)		Verdict
				Carrier Level	Calculated -20dBc Limit	
1	5728	-40.03	Plot A.1	16.85	-3.10	PASS
8	5784	-41.46	Plot B.1	17.04	-3.00	PASS
16	5844	-37.24	Plot C.1	17.17	-2.80	PASS

B. Test Plots:

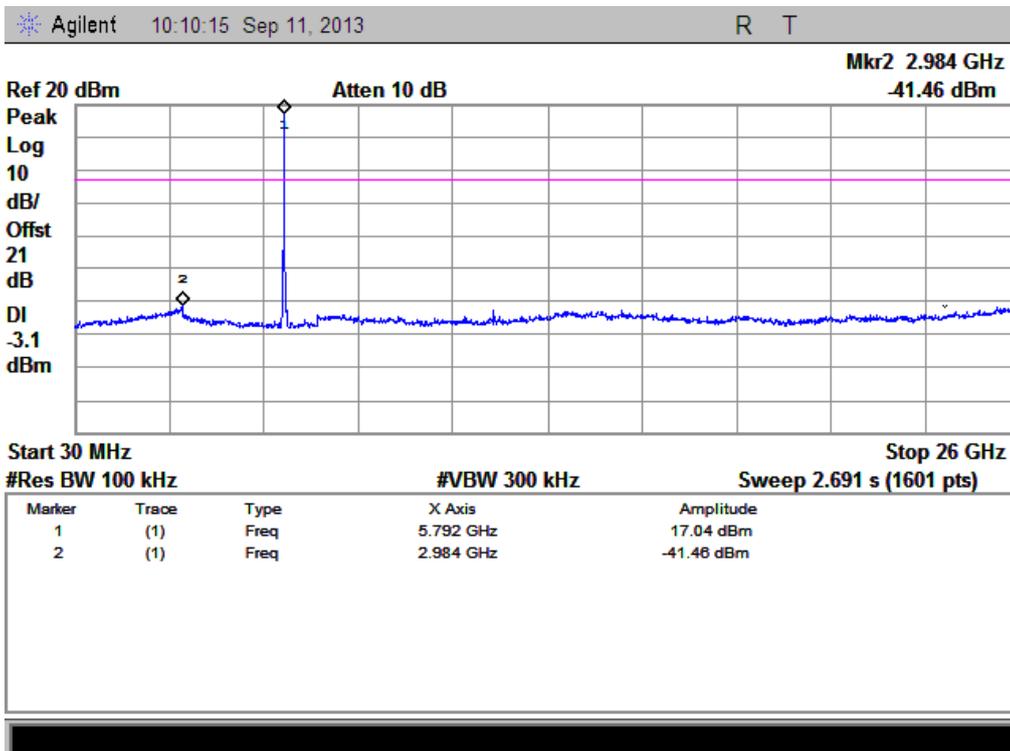
Note: the power of the Module transmitting frequency should be ignored.

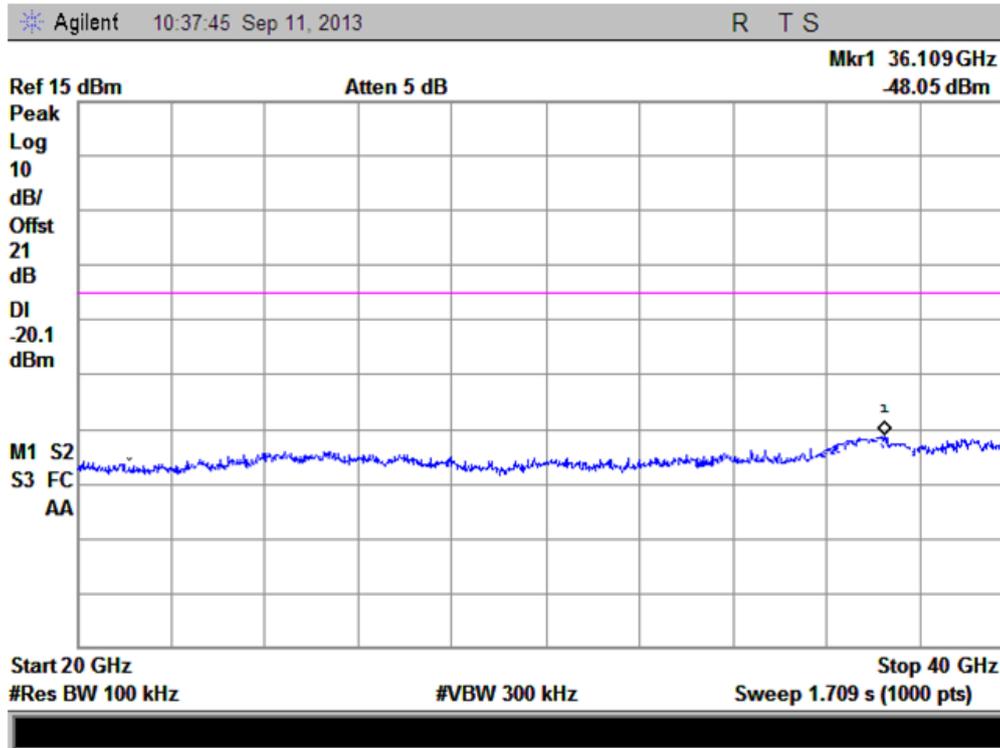


(Plot A.1: Channel = 1, 30MHz to 40GHz)

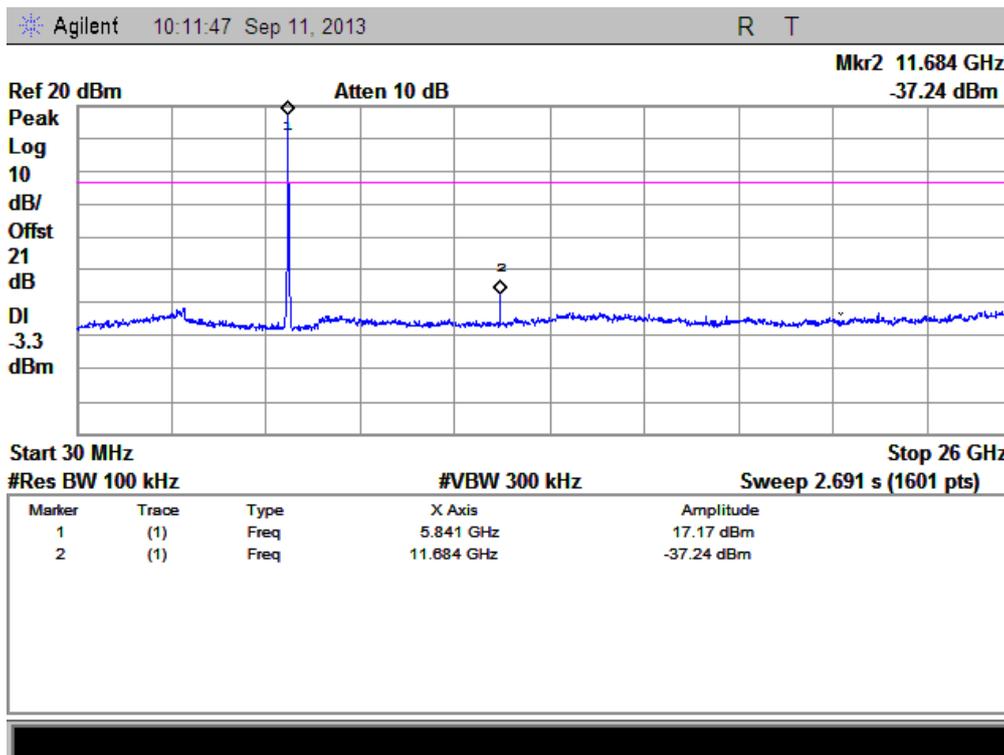


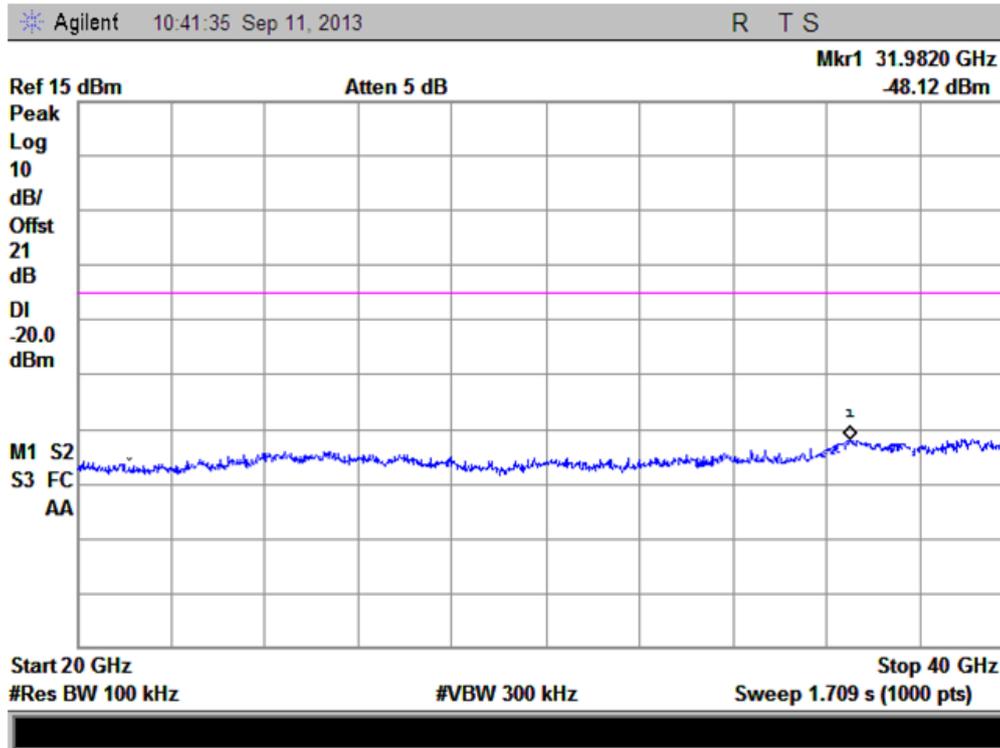
(Band edge @Channel = 1)



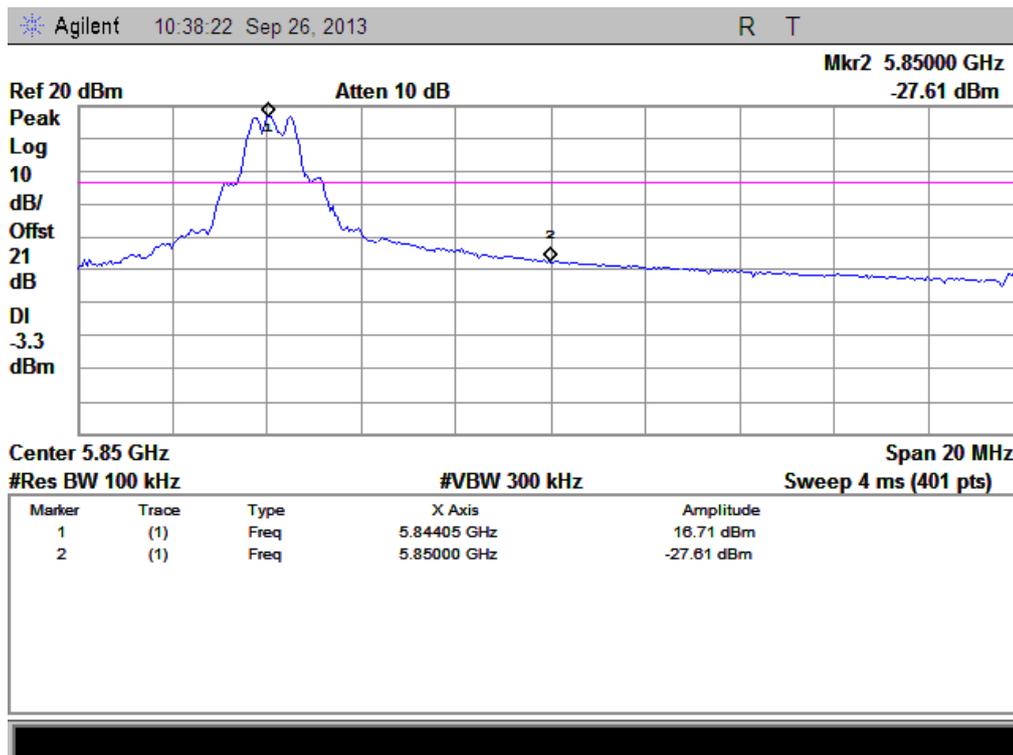


(Plot B.1: Channel = 18, 30MHz to 40GHz)





(Plot C.1: Channel = 36, 30MHz to 40GHz)



(Band edge @Channel = 36)

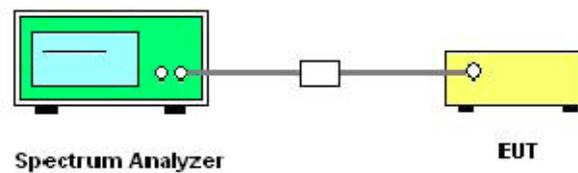
2.5. Power spectral density (PSD)

2.5.1. Requirement

According to FCC section 15.247(e), the same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

2.5.2. Test Description

A. Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4447A	US62552411	2013.05.12	2014.05.11

2.5.3. Test Result

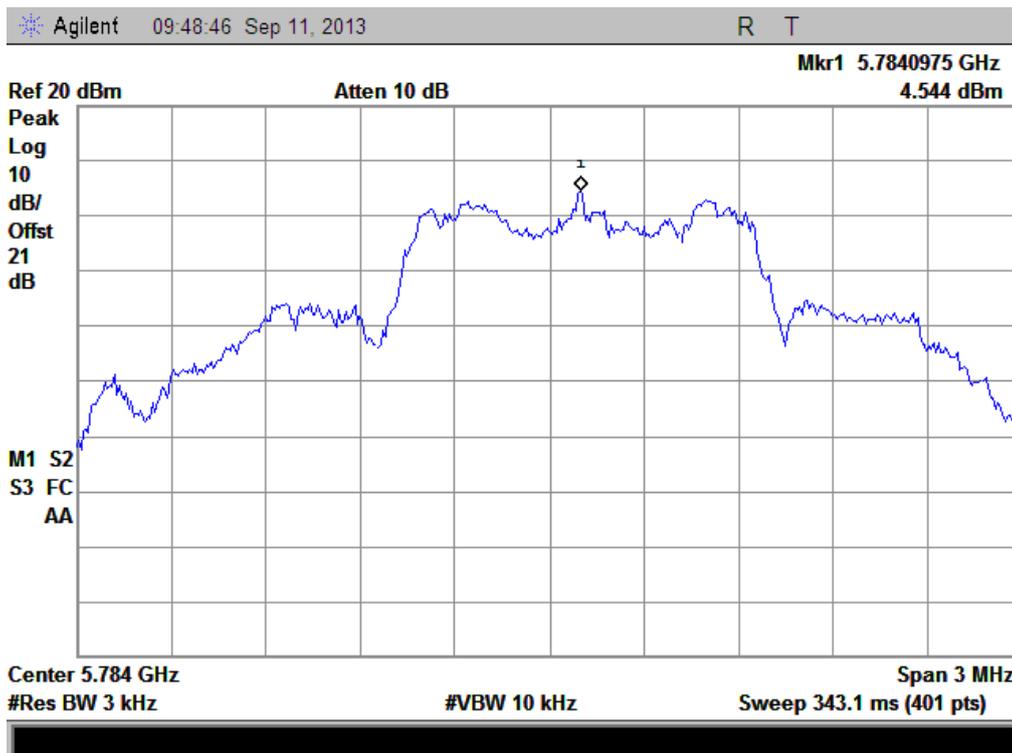
A. Test Verdict:

Spectral power density (dBm/3kHz)					
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Refer to Plot	Limit (dBm/3kHz)	Verdict
1	5728	4.615	Plot A	8	PASS
8	5784	4.544	Plot B	8	PASS
16	5844	5.759	Plot C	8	PASS
Measurement uncertainty: ± 1.3 dB					

B. Test Plots:



(Plot A: Channel = 1)



(Plot B: Channel = 18)



(Plot C: Channel = 36)

2.6. Conducted Emission

2.6.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

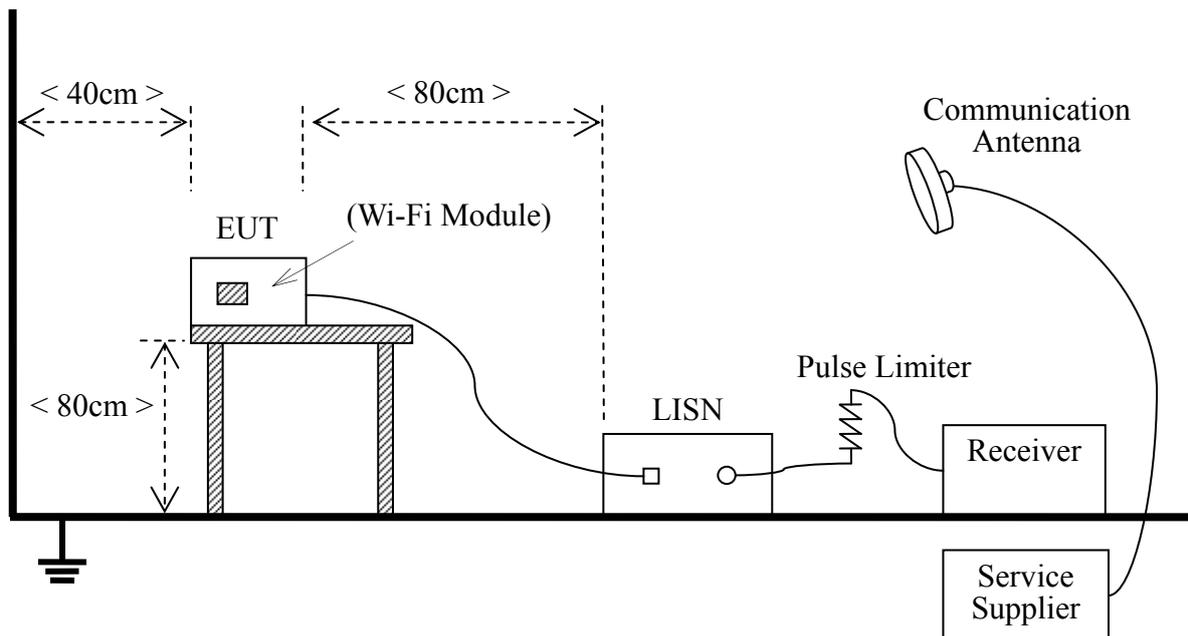
Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.6.2. Test Description

A. Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.4:2009

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Receiver	Agilent	E7405A	US44210471	2013.05.12	2014.05.11

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
LISN	Schwarzbeck	NSLK 8127	812744	2013.05.12	2014.05.11
Service Supplier	R&S	CMU200	100448	2013.05.12	2014.05.11
Pulse Limiter (20dB)	Schwarzbeck	VTSD 9561-D	9391	(n.a.)	(n.a.)

2.6.3. Test Result

The EUT is designed can not to be connected to the public utility (AC) power line, so conducted emission is unnecessary.

2.7. Radiated Emission

2.7.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
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

Note:

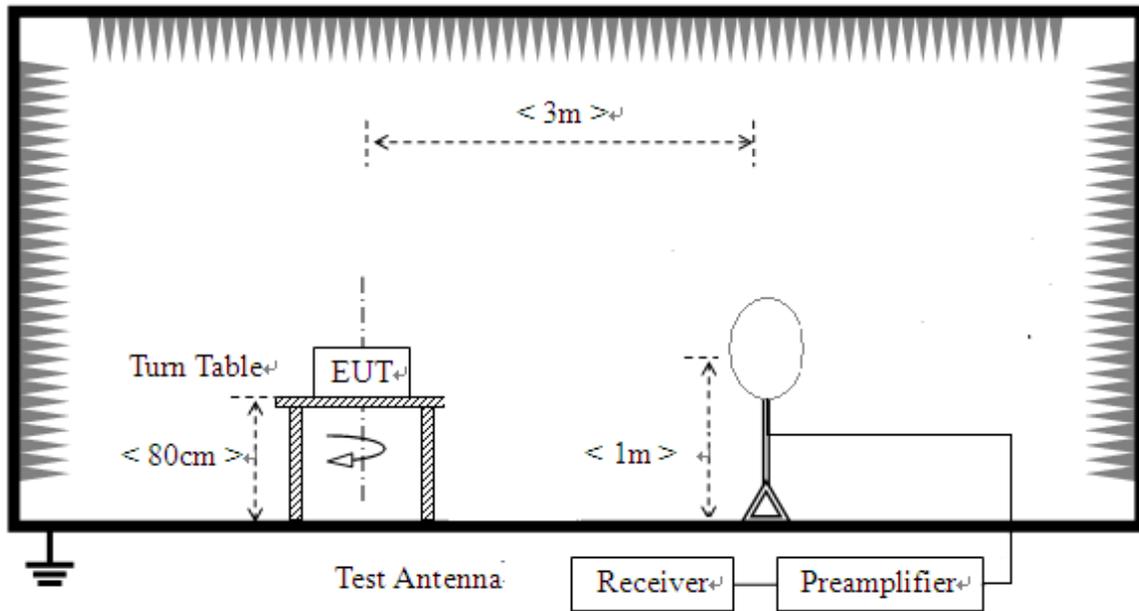
1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

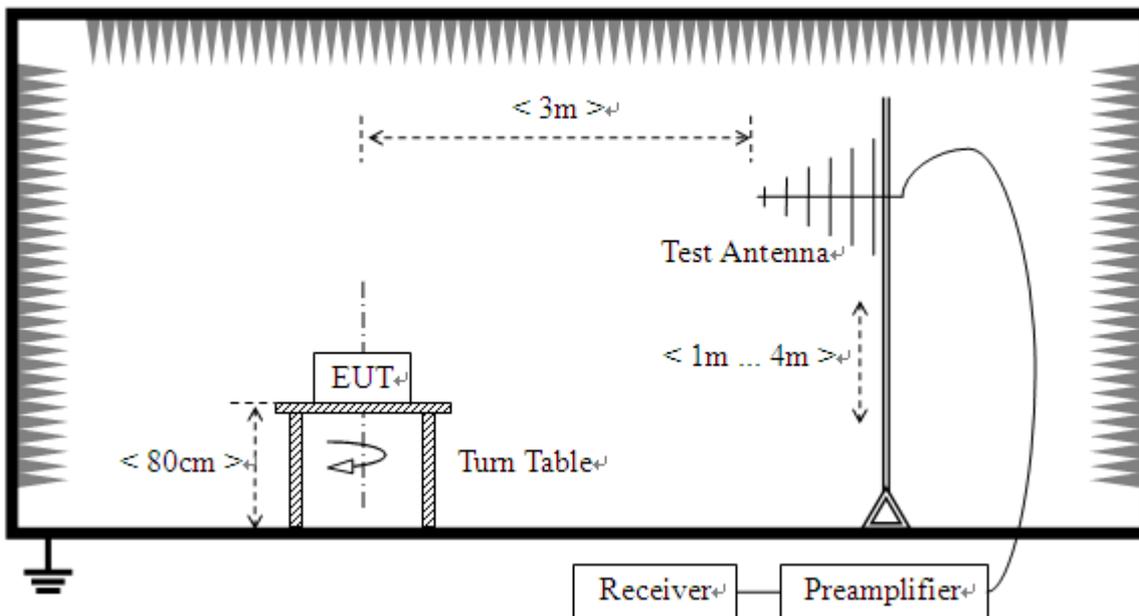
2.7.2. Test Description

A. Test Setup:

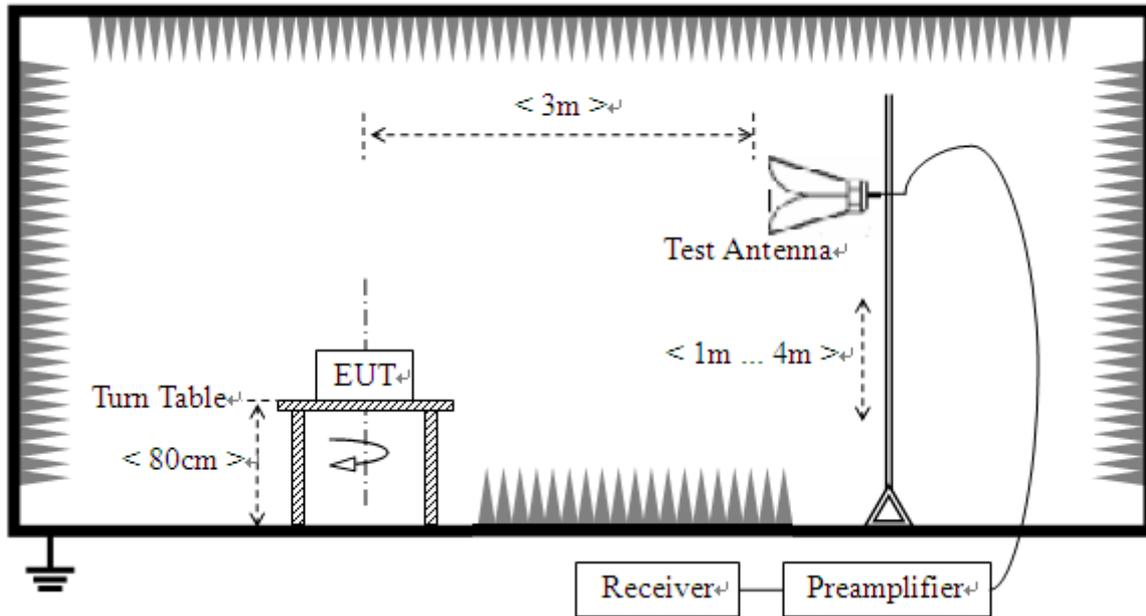
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2009). The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4.

The EUT of the EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and controlled by the Wireless Router via a Common Antenna, and is set to operate under hopping-on test mode.

For the Test Antenna:

- (a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 2GHz) and Horn Test Antenna (above 2GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4447A	US62552411	2013.05.12	2014.05.11
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2013.05.12	2014.05.11
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2013.05.12	2014.05.11
Test Antenna - Horn	Schwarzbeck	BBHA 9120D	9120D-963	2013.05.12	2014.05.11

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Test Antenna - Horn	R&S	HL050S7	71688	2013.05.12	2014.05.11
Test Antenna - Horn	Schwarzbeck	BBHA9170	9170-872	2013.05.12	2014.05.11
Test Antenna -Loop	Schwarzbeck	FMZB 1519	1519-022	2013.05.12	2014.05.11

2.7.3. Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

$$E \text{ [dB } \mu \text{ V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

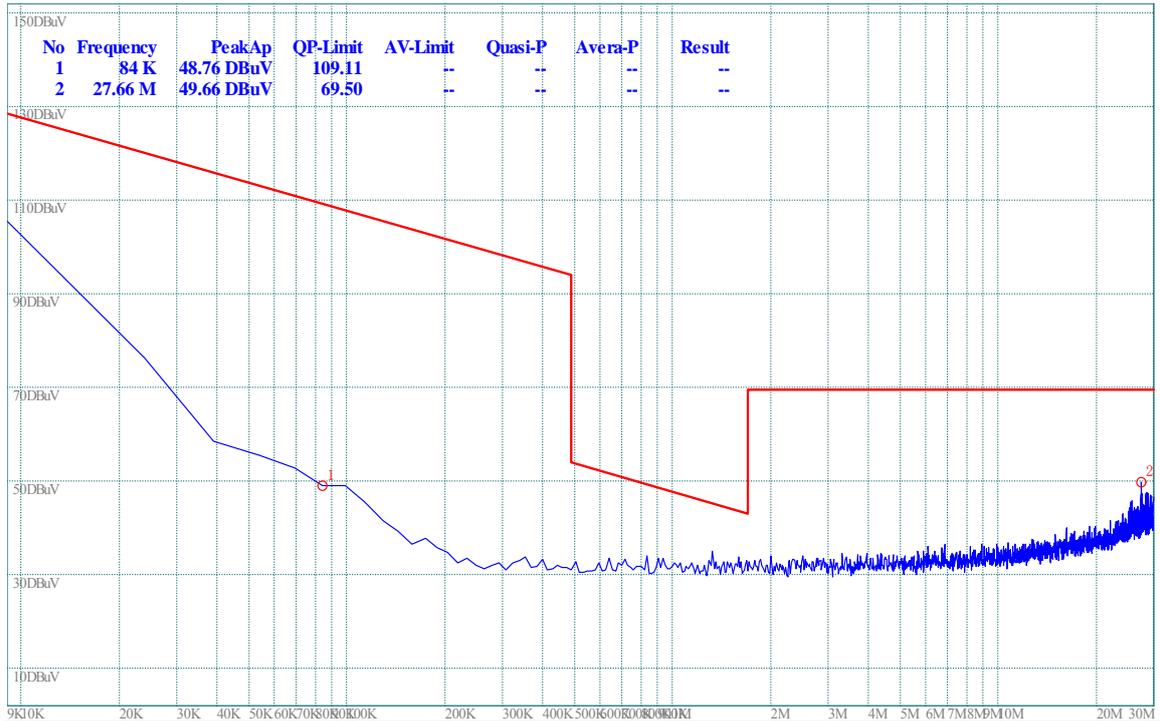
During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

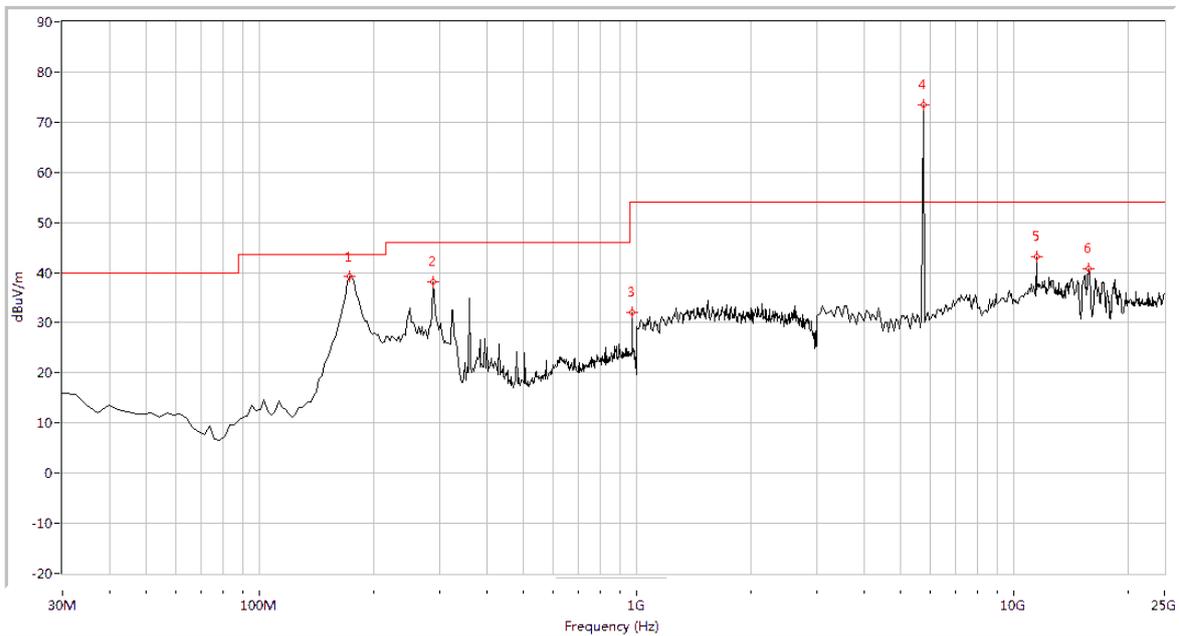
2.7.3.1. Test mode

A. Test Plots for the Whole Measurement Frequency Range:

Plots for Channel = 1

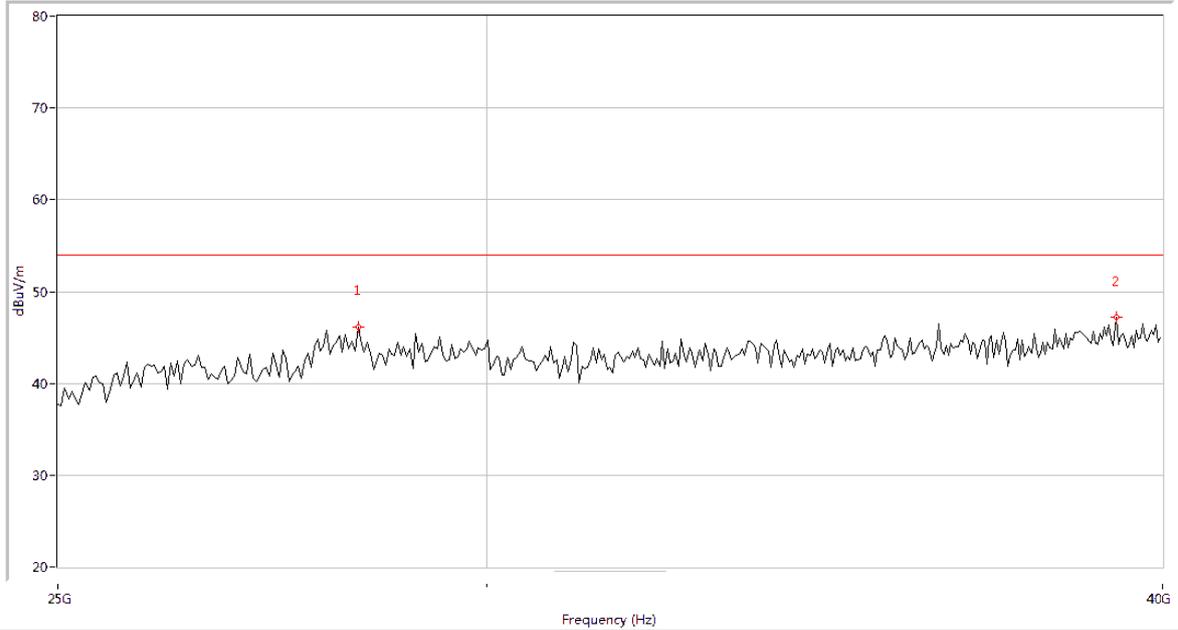


(Plot A.1: 9kHz to 30MHz)



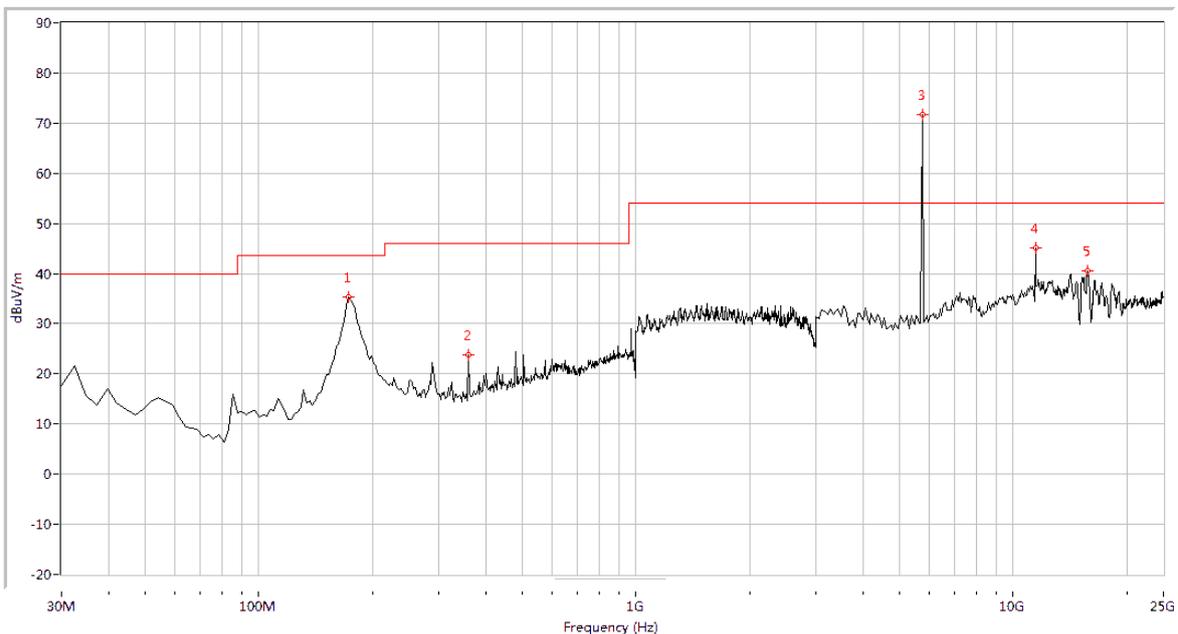
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
172.718	39.16	37.11	39.05	N.A	43.5	N.A	Horizontal	PASS
288.828	38.26	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
970.973	32.16	N.A	N.A	N.A	54.0	N.A	Horizontal	PASS
5728.000	73.36	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
11448.878	43.11	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
15783.042	40.72	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Plot A.2: Antenna Horizontal, 30MHz to 25GHz)



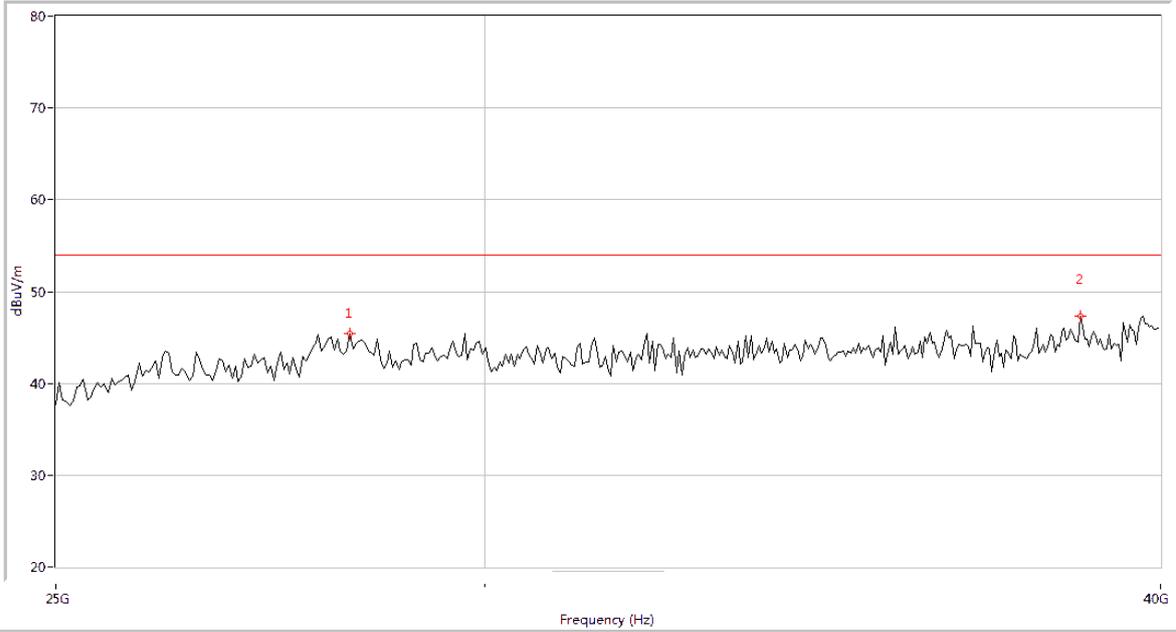
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
28403.998	46.18	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
39214.467	47.18	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Plot A.3: Antenna Horizontal, 25GHz to 40GHz)



Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
172.718	35.37	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
358.978	23.79	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
5784.000	71.70	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
11448.878	45.08	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
15728.180	40.49	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

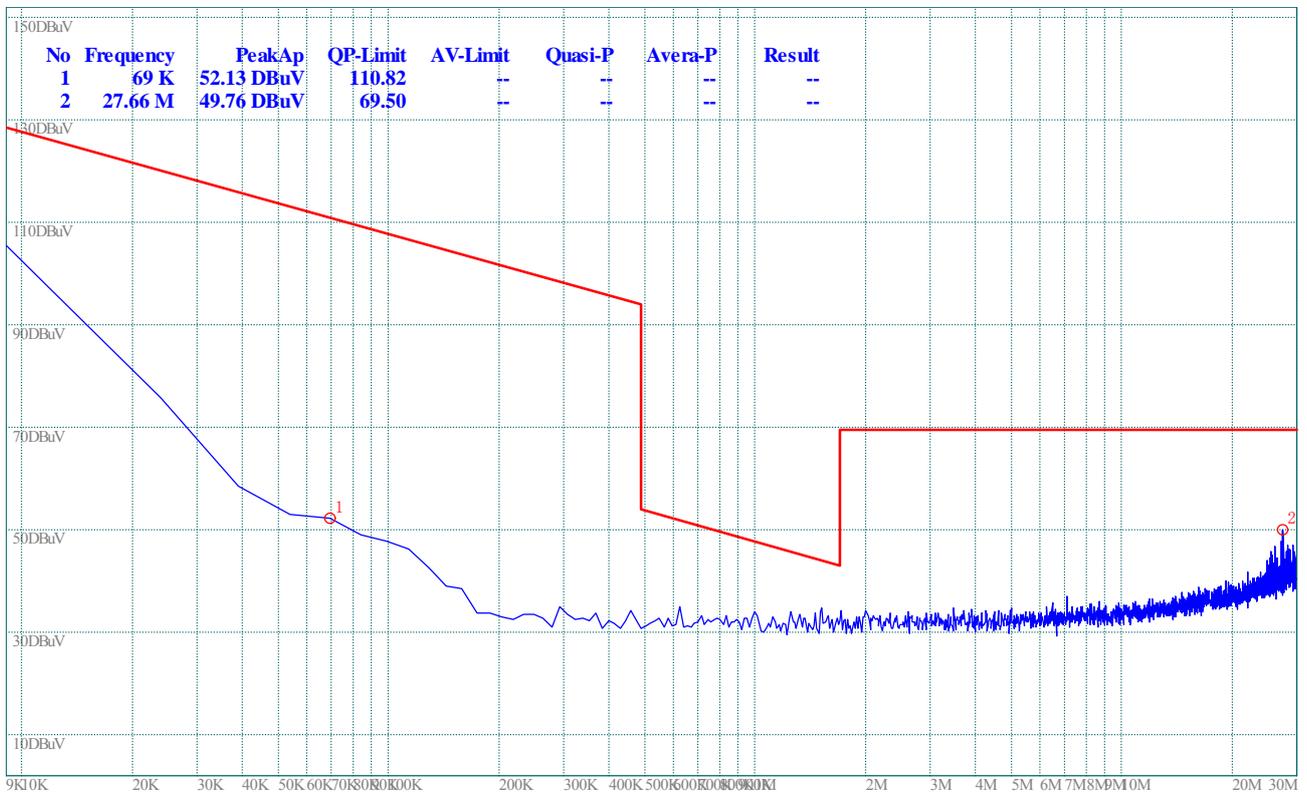
(Plot A.4: Antenna Vertical, 30MHz to 25GHz)



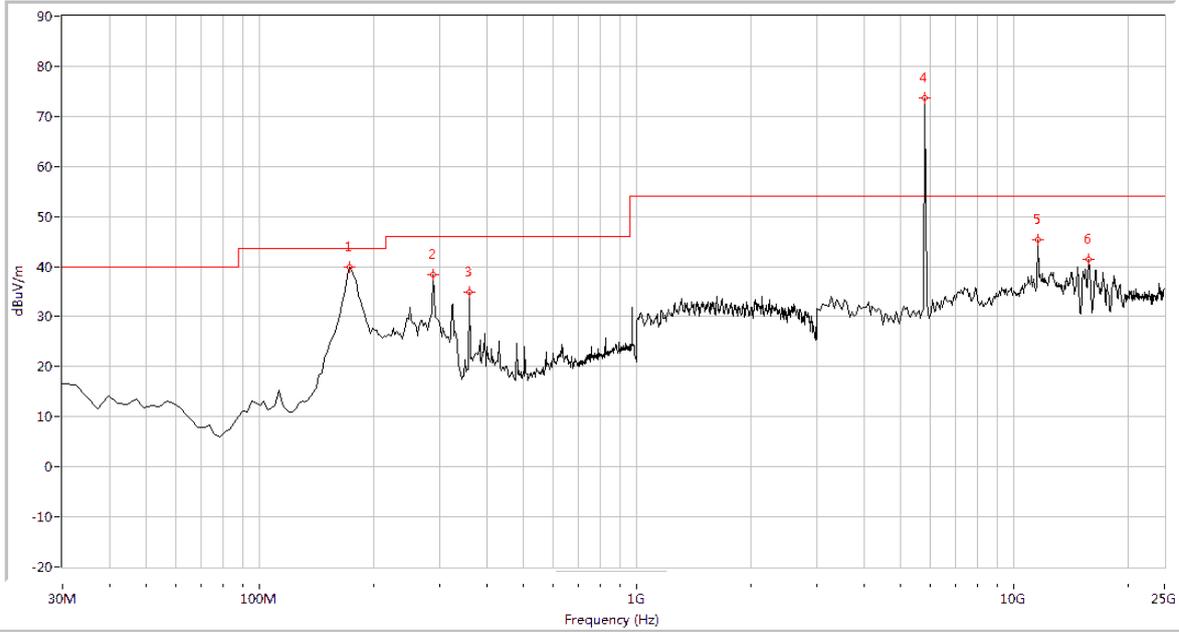
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
28302.918	45.38	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
38625.337	47.34	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Plot A.5: Antenna Vertical, 25GHz to 40GHz)

Plot for Channel = 8

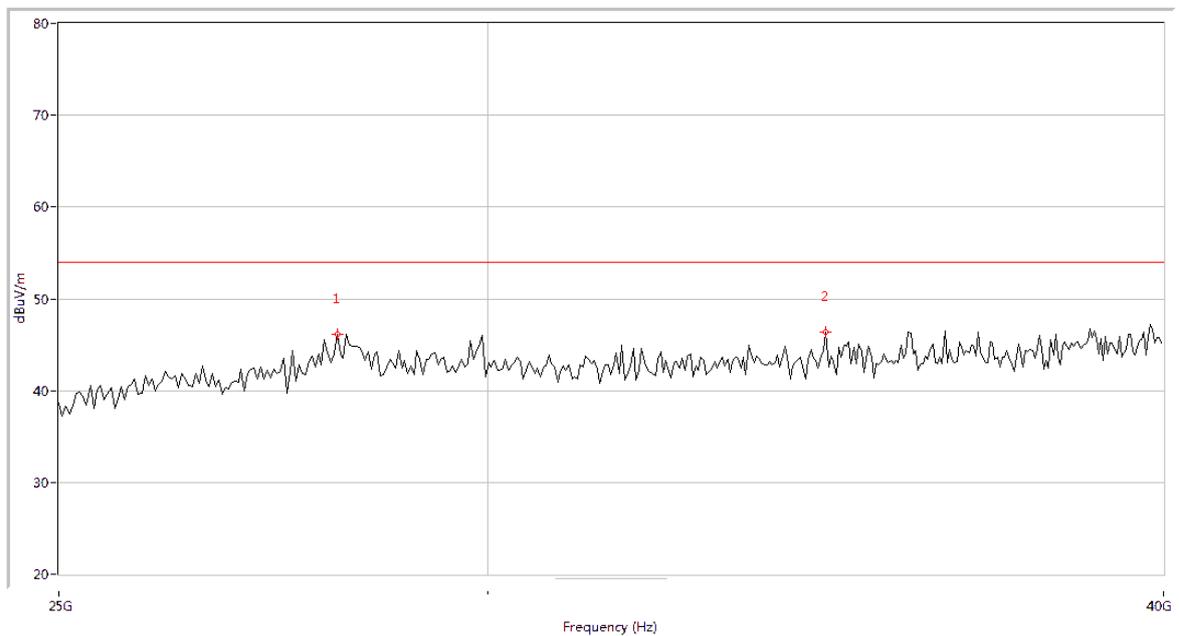


(Plot B.1: 9kHz to 30MHz)



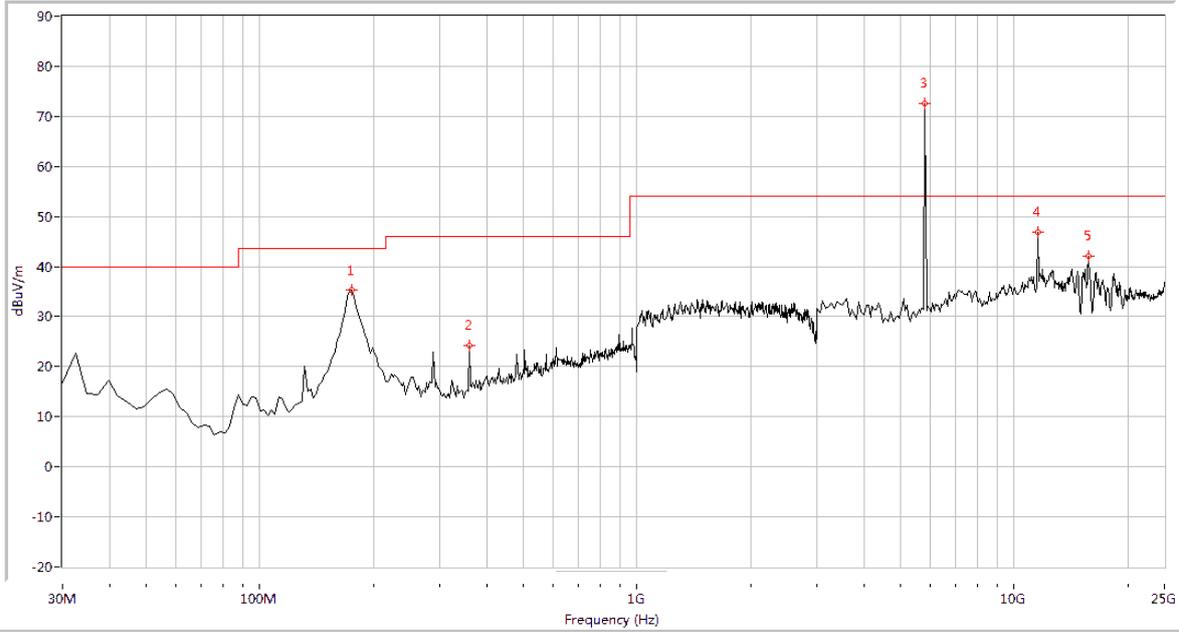
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
172.718	39.80	35.77	39.07	N.A	43.5	N.A	Horizontal	PASS
288.828	38.46	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
358.978	34.97	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
5784.000	73.75	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
11558.603	45.42	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
15783.042	41.48	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Plot B.2: Antenna Horizontal, 30MHz to 25GHz)



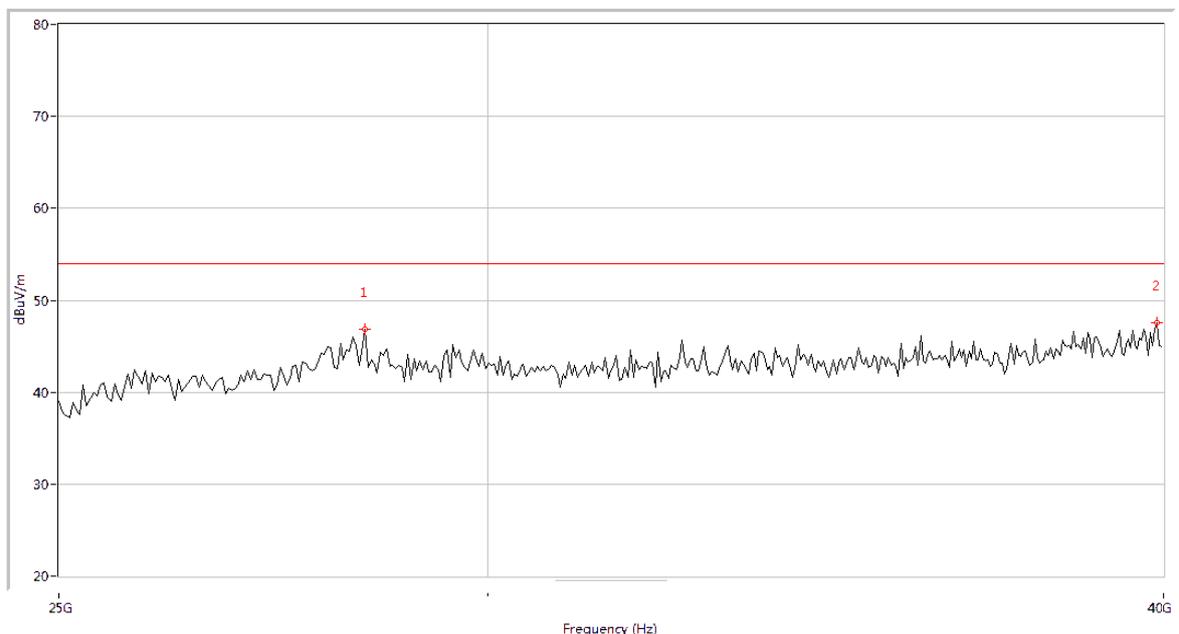
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
28142.214	46.13	N.A	N.A	74.0	N.A	74.0	Horizontal	PASS
34655.087	46.34	N.A	N.A	74.0	N.A	74.0	Horizontal	PASS

(Plot B.3: Antenna Horizontal, 25GHz to 40GHz)



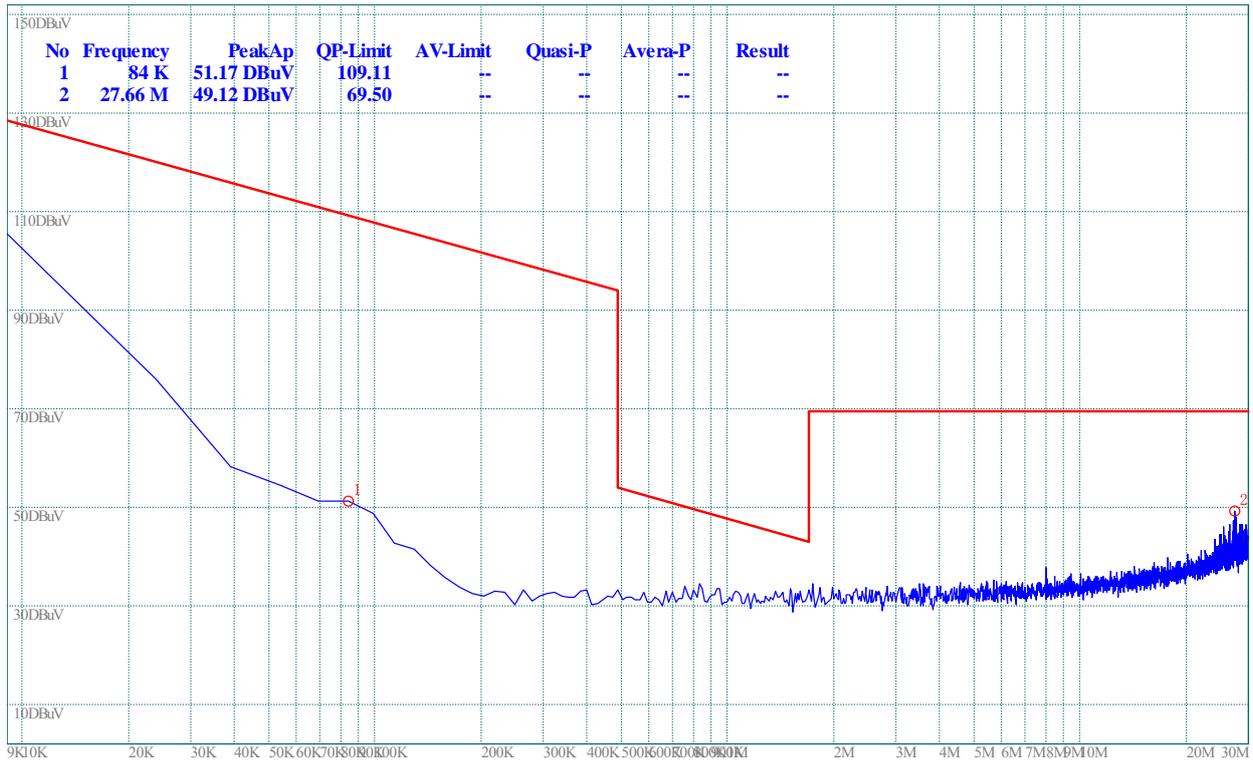
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
175.137	35.37	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
358.978	24.13	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
5754.000	72.68	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
11558.603	46.86	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
15728.180	42.17	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Plot B.4: Antenna Vertical, 30MHz to 25GHz)

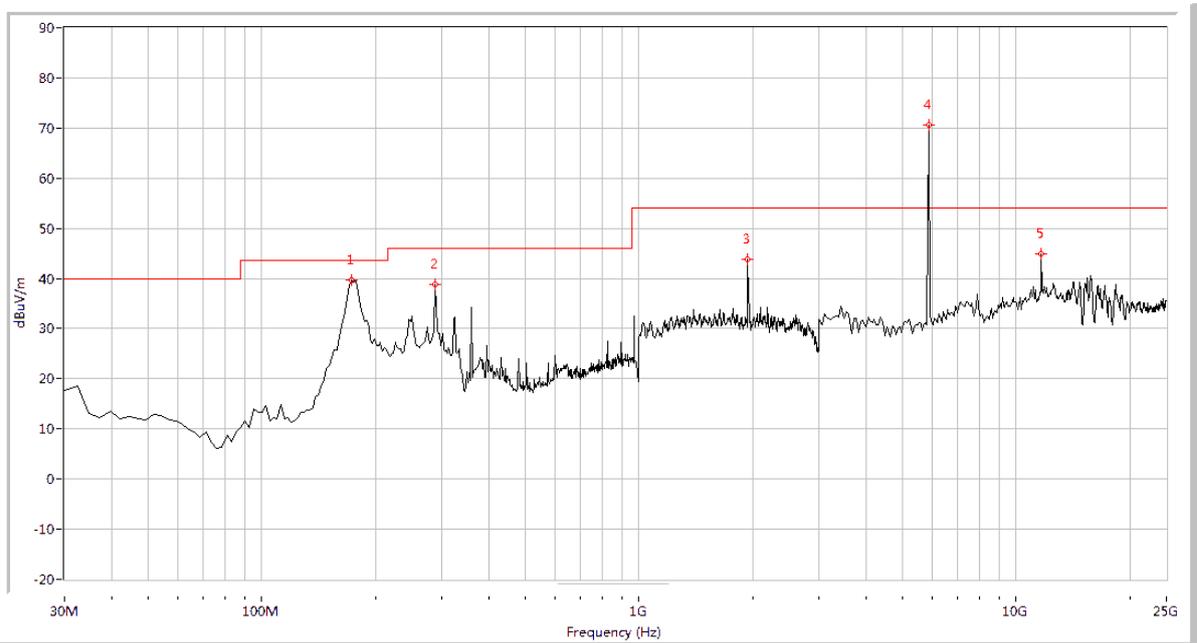


Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
28239.177	45.73	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
38760.559	48.64	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Plot B.5: Antenna Vertical, 30MHz to 25GHz)

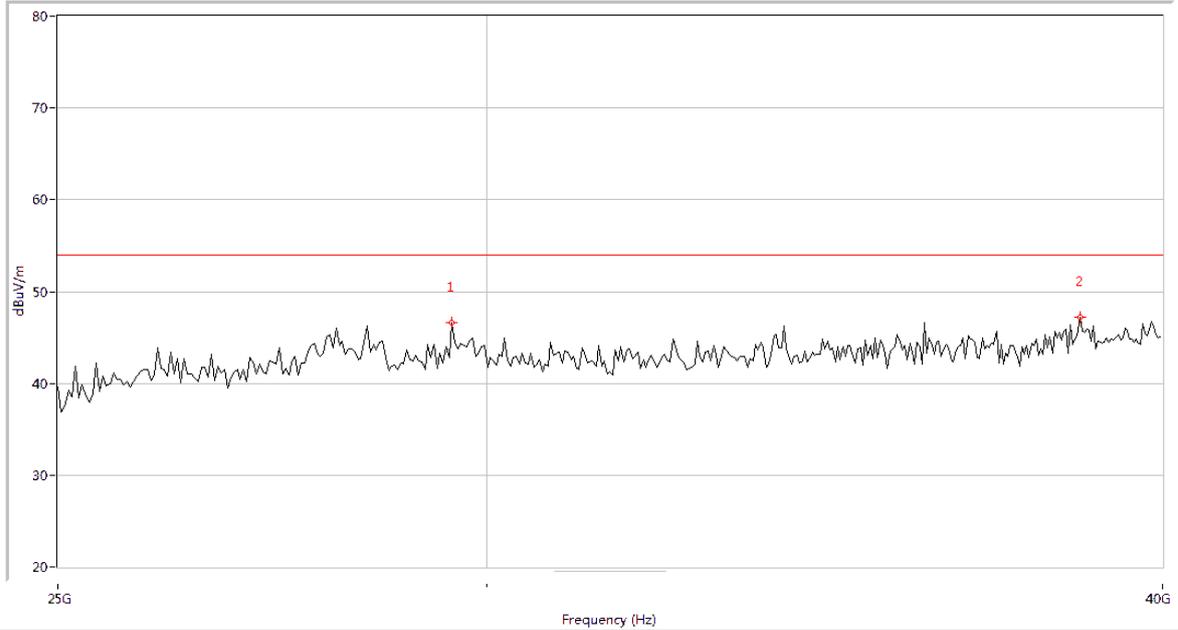
Plot for Channel = 16


(Plot C.1: 9kHz to 30MHz)



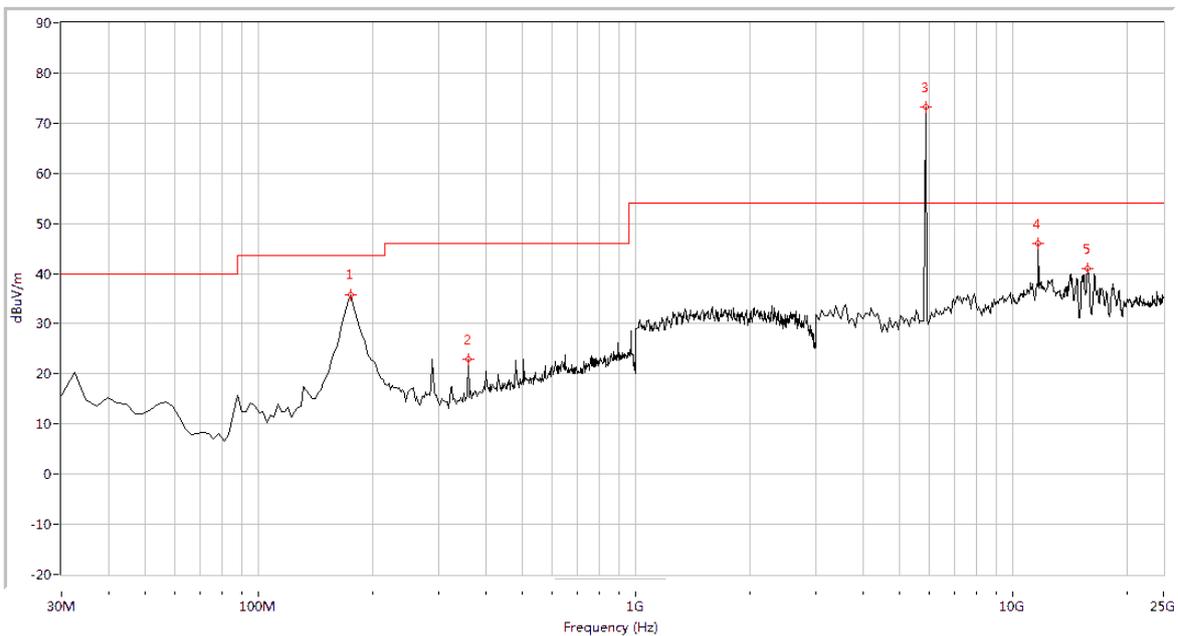
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
172.718	39.79	36.48	38.74	N.A	43.5	N.A	Horizontal	PASS
288.828	38.92	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
1937.656	43.73	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
5852.868	70.65	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
11668.329	44.91	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Plot C.2: Antenna Horizontal, 30MHz to 25GHz)



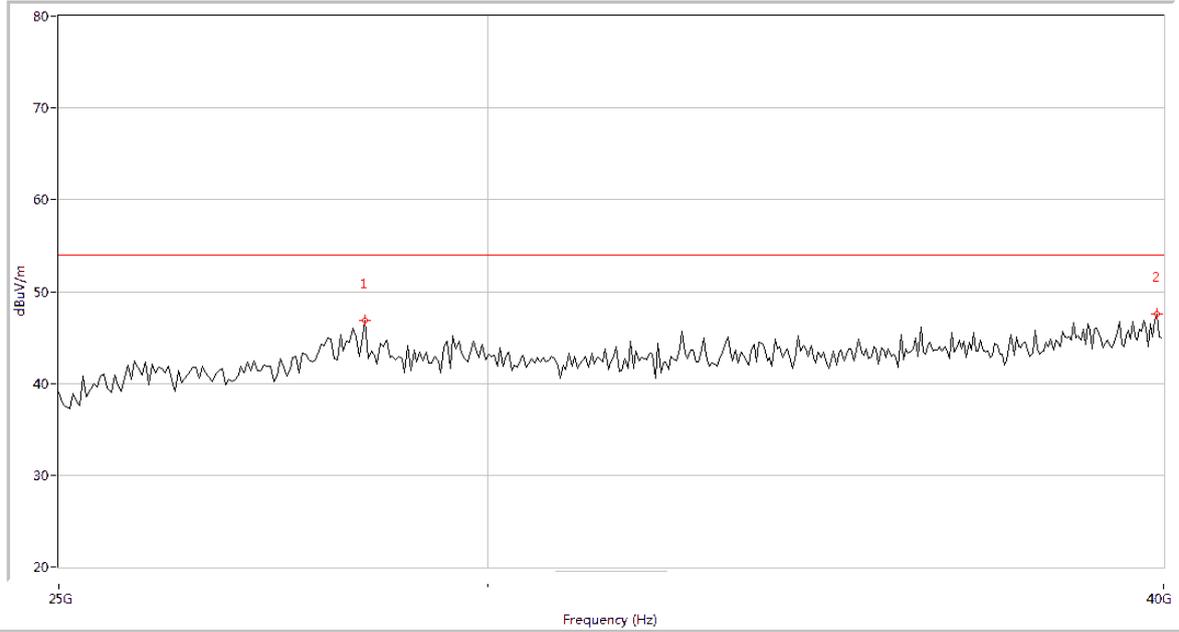
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
29561.359	46.61	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
38621.596	47.22	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Plot C.3: Antenna Horizontal, 25GHz to 40GHz)



Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
175.137	35.70	33.52	35.14	N.A	43.5	N.A	Vertical	PASS
358.978	22.86	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
5852.868	73.26	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
11668.329	45.96	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
15728.180	41.00	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Plot C.4: Antenna Vertical, 30MHz to 25GHz)



Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
28437.880	46.82	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
39848.778	47.54	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Plot C.5: Antenna Vertical, 25GHz to 40GHz)

**** END OF REPORT ****