



REPORT No.: SZ25040205W04

TEST REPORT

APPLICANT : Shenzhen Chainway Information
Technology Co., Ltd

PRODUCT NAME : Mobile Data Terminal

MODEL NAME : MC51

BRAND NAME : CHAINWAY

FCC ID : 2AC6AMC51

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2025-05-13

TEST DATE : 2025-05-14 to 2025-08-06

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DIRECTORY

1. Summary of Test Result	4
1.1. Testing Applied Standards	4
1.2. Test Equipment List	5
1.3. Measurement Uncertainty	7
1.4. Testing Laboratory	7
2. General Description	8
2.1. Information of Applicant and Manufacturer	8
2.2. Information of EUT	8
2.3. Channel List of EUT	10
2.4. Test Configuration of EUT	11
2.5. Test Conditions	11
2.6. Test Setup Layout Diagram	11
3. Test Results	14
3.1. Antenna Requirement	14
3.2. Duty Cycle of Test Signal	15
3.3. Maximum Peak Conducted Output Power	16
3.4. Maximum Average Conducted Output Power	17
3.5. 6 dB Bandwidth	18
3.6. Conducted Spurious Emissions and Band Edge	19
3.7. Power Spectral Density	20
3.8. Conducted Emission	21
3.9. Restricted Frequency Bands	22
3.10. Radiated Emission	23
Annex A Test Data and Result	25



REPORT No.: SZ25040205W04

Change History		
Version	Date	Reason for change
1.0	2025-10-20	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	/
2	N/A	Duty Cycle of Test Signal	Jun. 05, 2025	Zhu Peihong	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	Jun. 05, 2025	Zhu Peihong	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	Jun. 05, 2025	Zhu Peihong	PASS	/
5	15.247(a)	Bandwidth	Jun. 05, 2025	Zhu Peihong	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	Jun. 05, 2025	Zhu Peihong	PASS	/
7	15.247(e)	Power Spectral Density	Jun. 05, 2025	Zhu Peihong	PASS	/
8	15.207	Conducted Emission	May 14, 2025 to Aug. 06, 2025	Wang Yapeng Fan Shengquan	PASS	/
9	15.247(d)	Restricted Frequency Bands	Jun. 04, 2025 to Jul. 25, 2025	Gao Jianrou	PASS	/
10	15.209, 15.247(d)	Radiated Emission	Jun. 04, 2025 to Jul. 25, 2025	Gao Jianrou	PASS	/

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2020 and KDB 558074 D01 v05r02.

Note 2: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".

1.1. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:



- 47 CFR Part 15 Subpart C Radio Frequency Devices

1.2. Test Equipment List

1.2.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2025.01.15	2026.01.14
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.2.2 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	101052	ESPI	R&S	2024.05.30	2025.05.29
				2025.05.15	2026.05.14
LISN	103131	ENV 216	R&S	2025.03.20	2026.03.19
RF Coaxial Cable (DC-100MHz)	EMC-CE-00514	N/A	N/A	2025.05.06	2026.05.05

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
JS32-RE	Tonscend	5.0.0
TS+ -[JS32-CE]	Tonscend	2.5.0.0

**1.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna - Bi-Log	01267	VULB 9163	Schwarzbeck	2024.07.26	2025.07.25
				2025.07.16	2026.07.15
Test Antenna - Loop	00131	FMZB1519B	Schwarzbeck	2024.09.19	2025.09.18
Test Antenna – Horn	9120D-963	BBHA 9120D	Schwarzbeck	2024.05.22	2025.05.21
				2025.05.16	2026.05.15
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.03	2025.06.02
				2025.06.20	2026.06.19
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.09.11	2025.09.10
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.04.19	2028.04.18
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29



1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Peak Output Power	$\pm 2.22\text{dB}$	Confidence levels of 95%
Power Spectral Density	$\pm 2.22\text{dB}$	Confidence levels of 95%
Bandwidth	$\pm 5\%$	Confidence levels of 95%
Conducted Spurious Emission	$\pm 2.77\text{dB}$	Confidence levels of 95%
Restricted Frequency Bands	$\pm 5\%$	Confidence levels of 95%
Radiated Emission	$\pm 2.95\text{dB}$	Confidence levels of 95%
Conducted Emission	$\pm 2.44\text{dB}$	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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FCC Designation Number:	CN1192
FCC Test Firm Registration Number:	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant:	Shenzhen Chainway Information Technology Co., Ltd
Applicant Address:	9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Chainway Information Technology Co., Ltd
Manufacturer Address:	9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China

2.2. Information of EUT

Product Name:	Mobile Data Terminal	
Sample No.:	1#, 10#, 14#	
Hardware Version:	MC51_Hardware_version	
Software Version:	MC51_Software_version	
Equipment Type:	Bluetooth LE	
Bluetooth Version:	5.2	
Modulation Type:	GFSK	
Data Rate:	1Mbps, 2Mbps	
Operating Frequency Range:	2402MHz-2480MHz	
Antenna Type:	PIFA Antenna	
Antenna Gain:	2.4dBi	
Accessory Information:	Battery 1	
	Brand Name:	BOB
	Model No.:	MC51
	Serial No.:	N/A
	Capacity:	4800mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Dongguan Bob Electronics Co., Ltd

Accessory Information:	Battery 2	
	Brand Name:	UTILITY
	Model No.:	MC51
	Serial No.:	N/A
	Capacity:	4800mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	SHEN ZHEN UTILITY ENERGY CO.,LTD.
	Battery 3	
	Brand Name:	BOB
	Model No.:	471120-50mAh
	Serial No.:	N/A
	Capacity:	50mAh
	Rated Voltage:	3.7V
	Charge Limit:	4.2V
	Manufacturer:	Dongguan Bob Electronics Co., Ltd
	AC Adapter	
	Brand Name:	YING YUAN
	Model No.:	DBS15Q
	Serial No.:	N/A
	Rated Output:	5V=3A; 9V=2A; 12V=1.5A;
	Rated Input:	100-240V~50/60Hz, 0.5A
	Manufacturer:	SHENZHEN SHI YING YUAN ELECTRONICS CO LTD
	USB Cable	
	Model No.:	K422-08251-H0
	Manufacturer:	Dongguan Chuantuo Electronics Co., Ltd

Note 1: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



2.3.Channel List of EUT

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Note 1: The black bold channels were selected for test.

2.4. Test Configuration of EUT

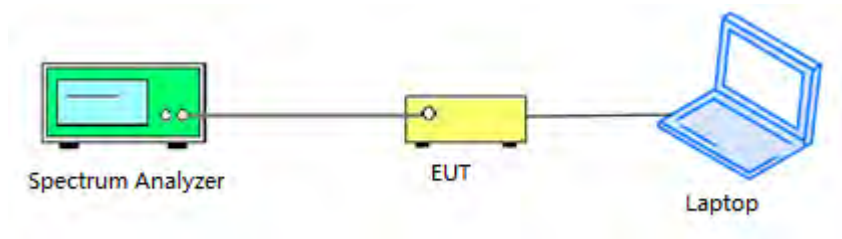
The EUT is controlled by dedicated software to transmit at the default maximum power level.

2.5. Test Conditions

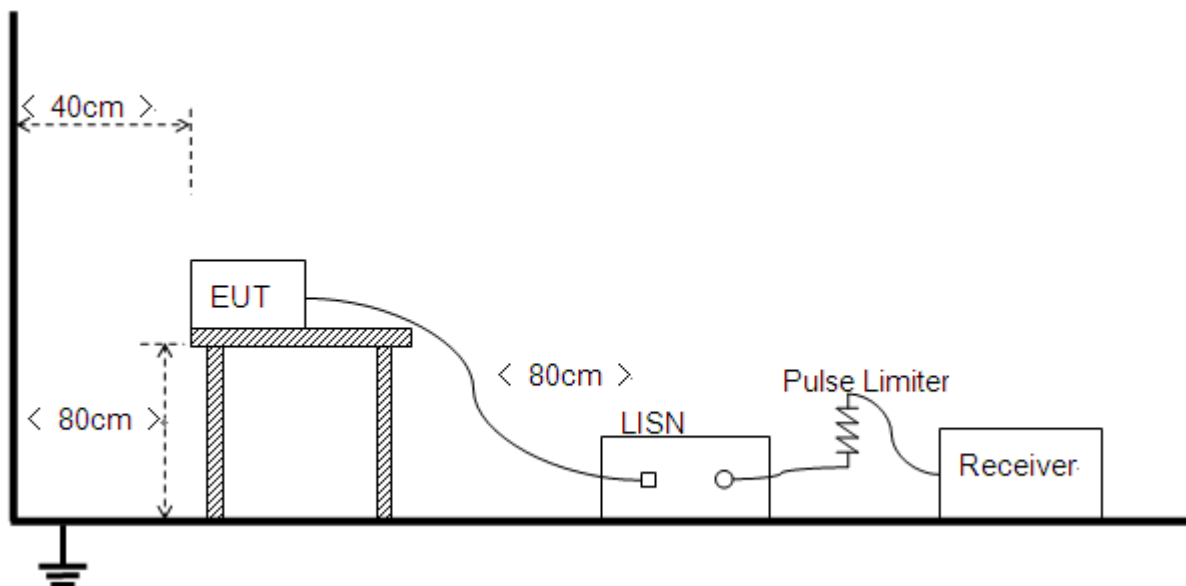
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

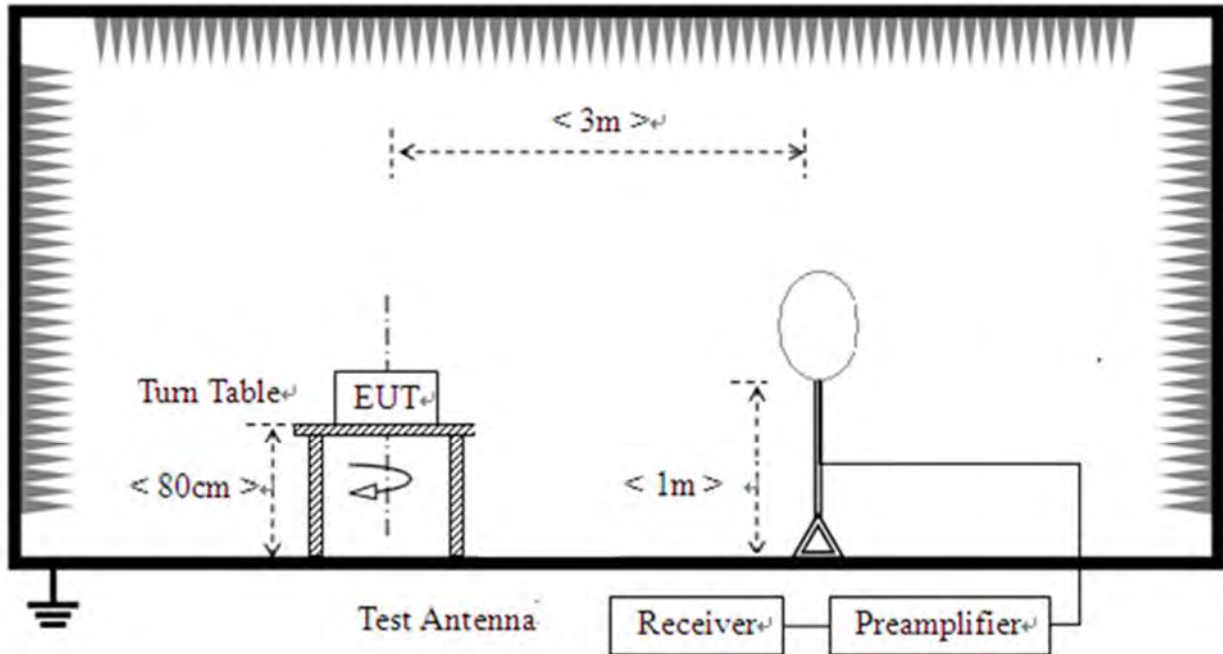


2.6.2. Conducted Emission Measurement

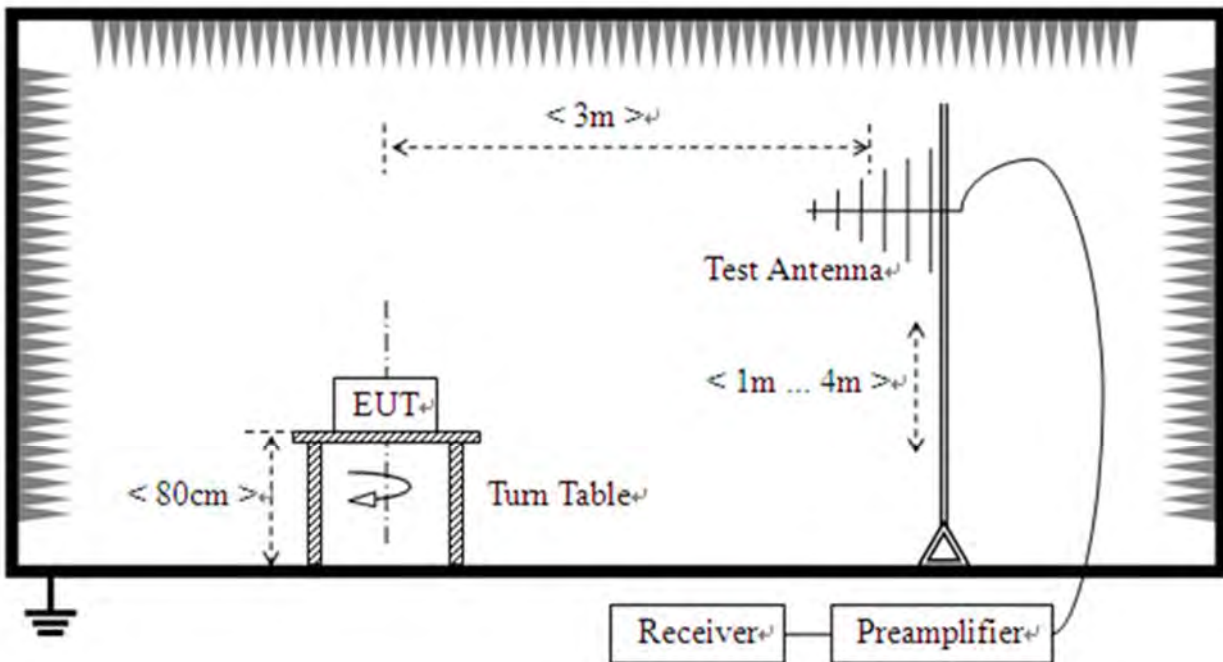


2.6.3.Radiation Measurement

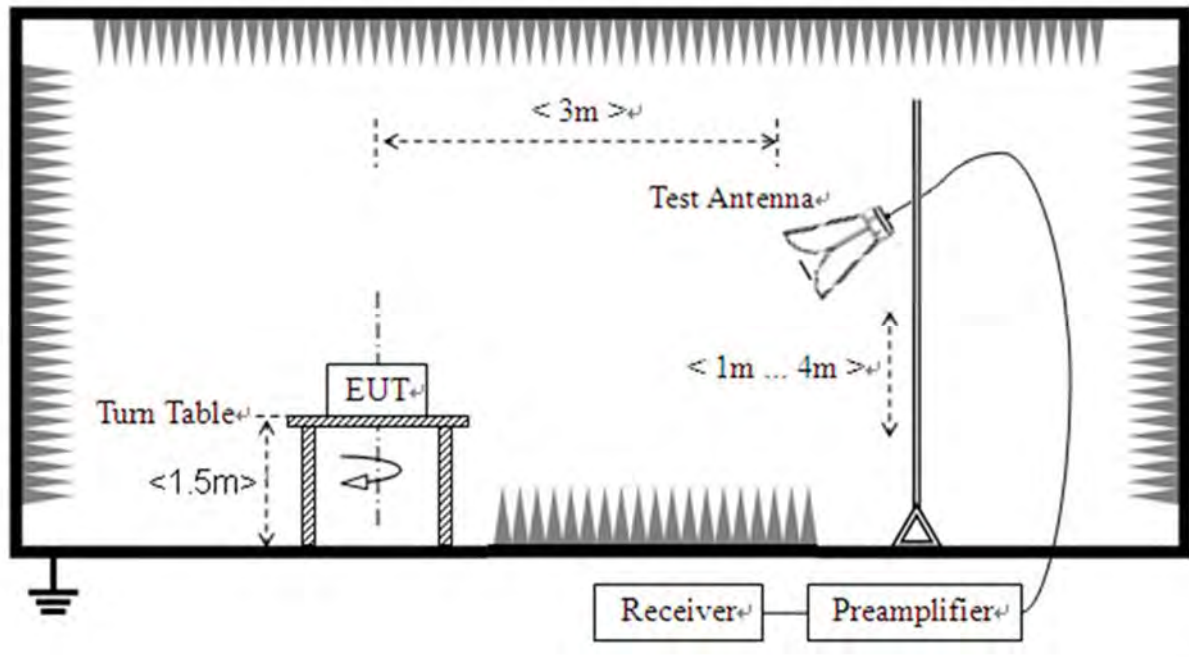
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz





3. Test Results

3.1. Antenna Requirement

3.1.1. Requirement

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.

3.1.2. Test Result

Antenna location	Antenna Type	Coupling Method
☒ Internal ☐ External	☐ FPC Antenna ☐ Spring Antenna ☐ Ceramic Antenna ☐ Integrated Antenna ☐ Dipole Antenna ☐ PCB Antenna ☒ PIFA Antenna ☐ Inverted F Antenna	☐ I-PEX Connector ☐ SMA Connector ☐ RP-SMA Connector ☒ Metal Shrapnel ☐ Layout

3.2. Duty Cycle of Test Signal

3.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration(T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e.,no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; otherwise, the duty cycle is considered to be non constant.

3.2.2. Test Result

Refer to Annex A.1 in this report.



3.3. Maximum Peak Conducted Output Power

3.3.1. 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.

3.3.2. Test Procedures

KDB 558074 Section 8.3.1 was used in order to prove compliance.

3.3.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4. Test Result

Refer to Annex A.2 in this report.



3.4. Maximum Average Conducted Output Power

3.4.1. 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 average conducted output power of the intentional radiator shall not exceed 1 Watt.

3.4.2. Test Procedures

KDB 558074 Section 8.3.2 was used in order to prove compliance.

3.4.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.4. Test Result

Refer to Annex A.3 in this report.



3.5.6 dB Bandwidth

3.5.1.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 6dB bandwidth shall be at least 500 kHz.

3.5.1.Test Procedures

The steps for the first option are as follows:

- a) Set analyzer center frequency to channel center frequency
- b) Set RBW to 100kHz
- c) Set VBW to 300kHz
- d) Detector = peak.
- e) Trace mode = max hold
- f) Sweep time = auto couple
- g) Allow the trace to fully stabilize
- h) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., $RBW = 100 \text{ kHz}$, $VBW \geq 3 \times RBW$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq 6 \text{ dB}$.

3.5.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.3.Test Result

Refer to Annex A.4 in this report.



3.6. Conducted Spurious Emissions and Band Edge

3.6.1. Requirement

According to FCC section 15.247(d), 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.

3.6.2. Test Procedures

KDB 558074 Section 8.5 and 8.7 was used in order to prove compliance.

3.6.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.6.4. Test Result

Refer to Annex A.5 and A.6 in this report.

3.7. Power Spectral Density

3.7.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

3.7.2. Test Procedures

The measured power spectral density was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for PSD test:

- a) Set analyzer center frequency to channel center frequency
- b) Set span to 1.5 times DTS
- c) Set RBW to 3kHz
- d) Set VBW to 10kHz
- e) Detector = peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum amplitude level within the RBW

3.7.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.7.4. Test Result

Refer to Annex A.7 in this report.

3.8. Conducted Emission

3.8.1. 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:

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

3.8.2. Test Procedures

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 C63.10.

3.8.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.8.4. Test Result

Refer to Annex A.8 in this report.

3.9. Restricted Frequency Bands

3.9.1. Requirement

According to FCC section 15.247(d), 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. In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

3.9.2. Test Procedures

The EUT 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.

For the Test Antenna:

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.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

3.9.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4. Test Result

Refer to Annex A.9 in this report.

3.10. Radiated Emission

3.10.1.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 ($\mu\text{V/m}$)	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

Note1: 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.

Note2: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).



3.10.2.Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

3.10.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.10.4.Test Result

Refer to Annex A.10 in this report.



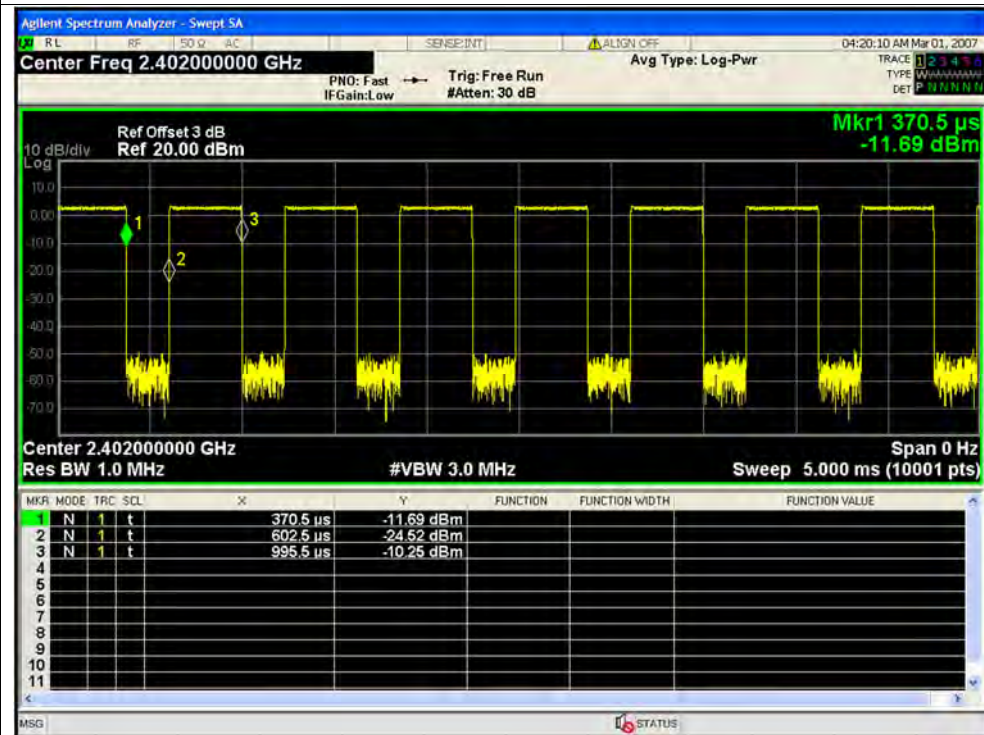
Annex A Test Data and Result

A.1. Duty Cycle of Test Signal

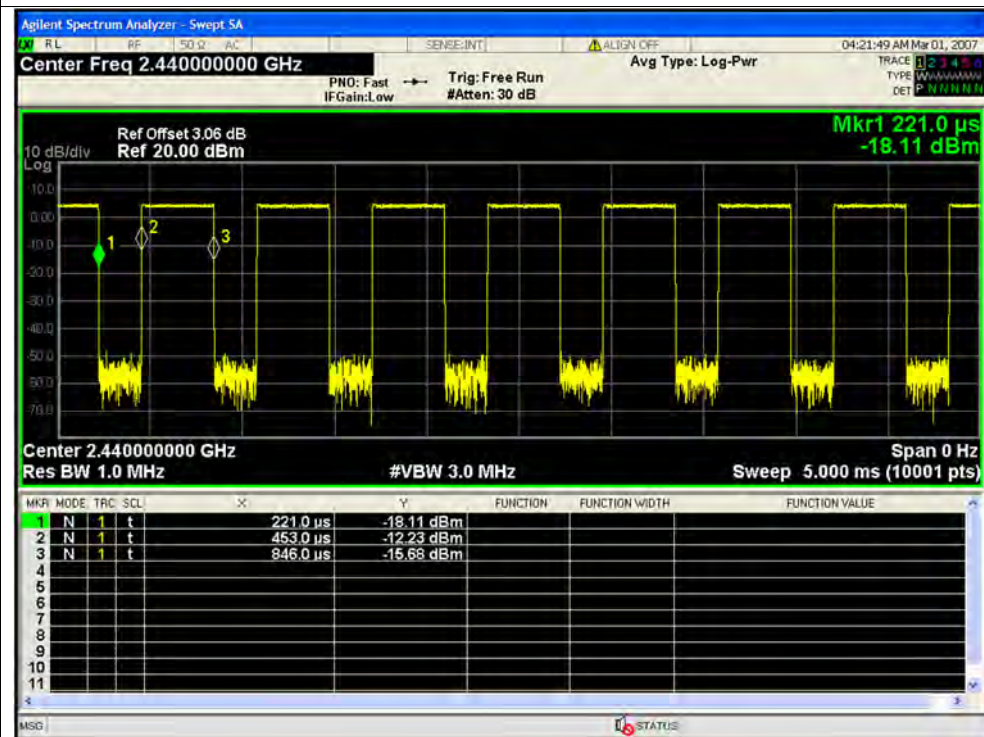
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	62.88	2.01	2.54
NVNT	BLE 1M	2440	Ant1	62.88	2.01	2.54
NVNT	BLE 1M	2480	Ant1	62.88	2.01	2.54
NVNT	BLE 2M	2402	Ant1	33.44	4.76	4.78
NVNT	BLE 2M	2440	Ant1	33.49	4.75	4.77
NVNT	BLE 2M	2480	Ant1	33.41	4.76	4.78

Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1

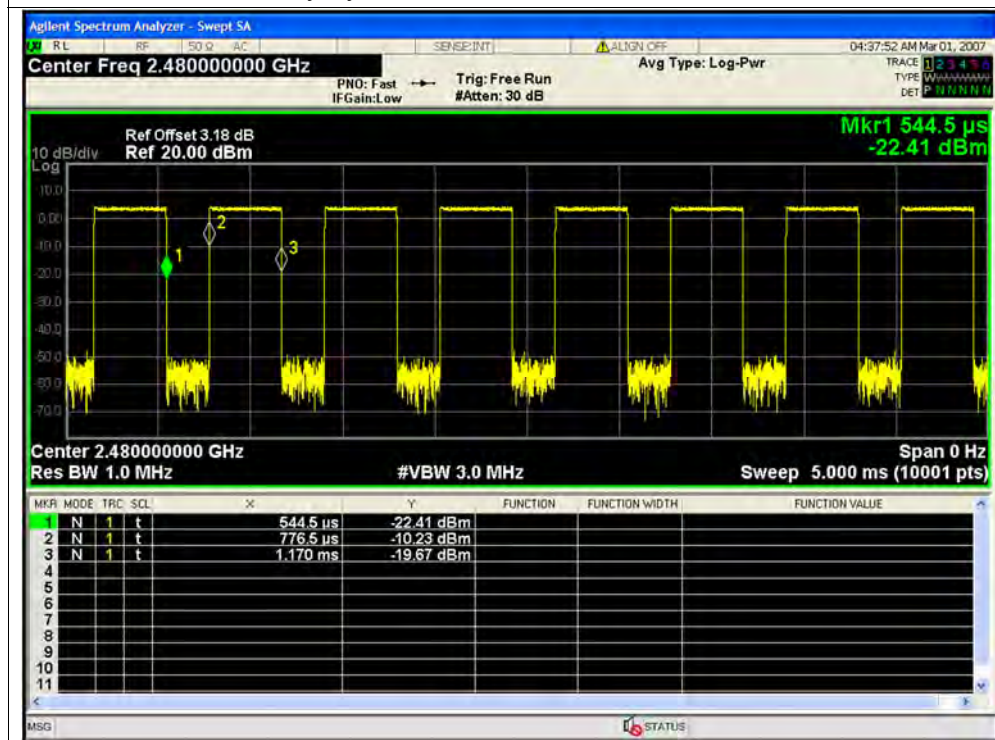


Duty Cycle NVNT BLE 1M 2440MHz Ant1

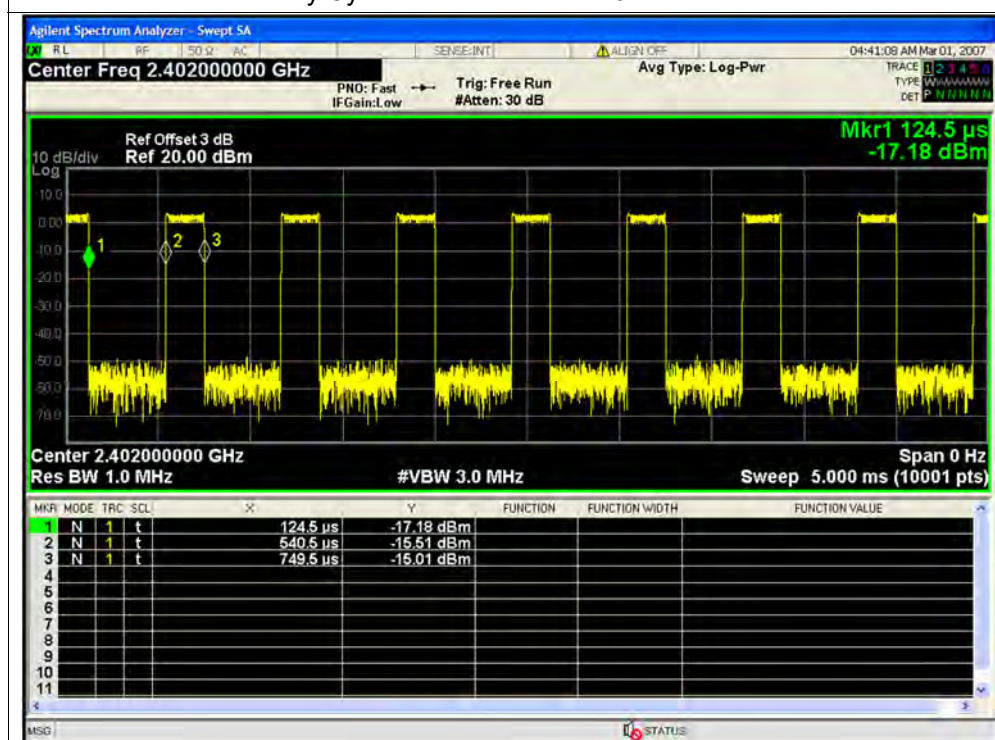




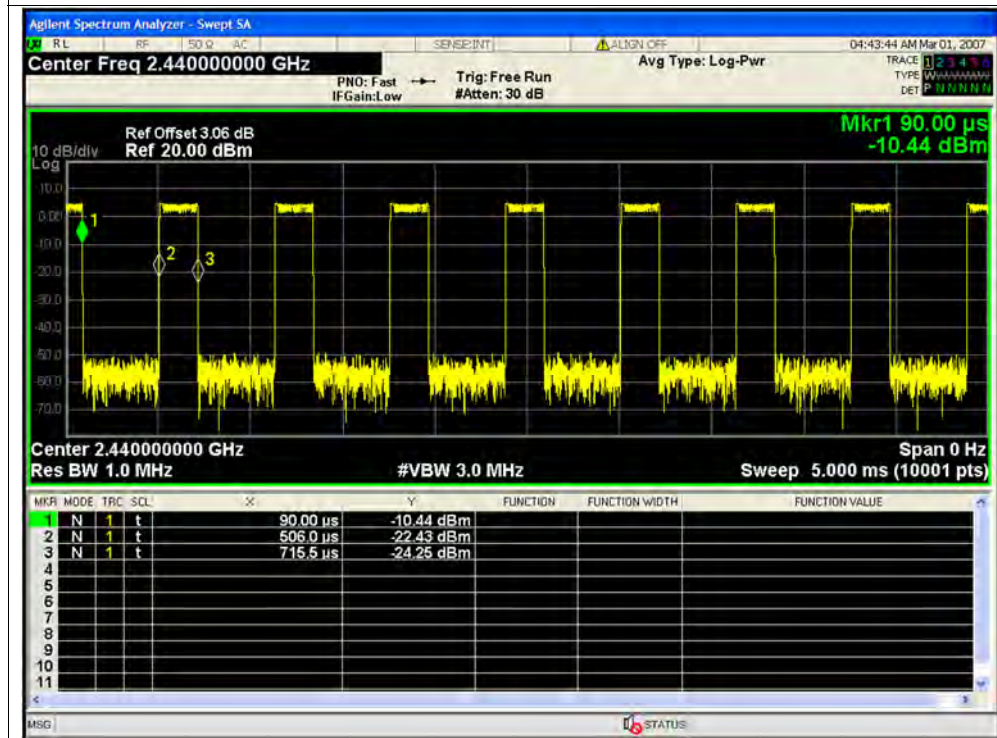
Duty Cycle NVNT BLE 1M 2480MHz Ant1



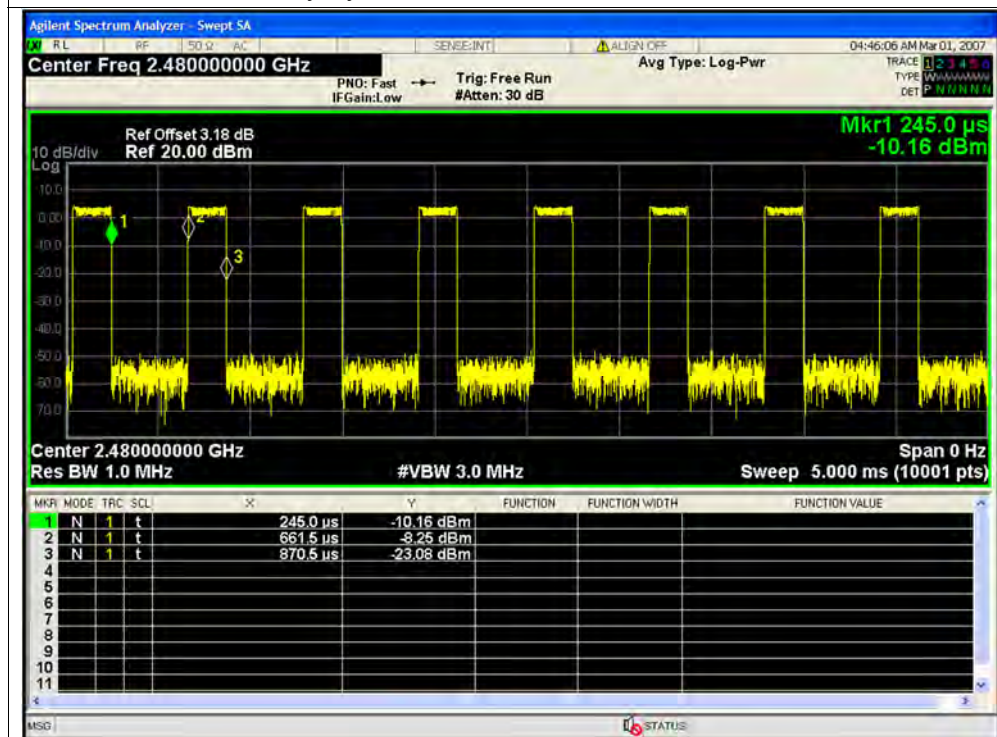
Duty Cycle NVNT BLE 2M 2402MHz Ant1



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1

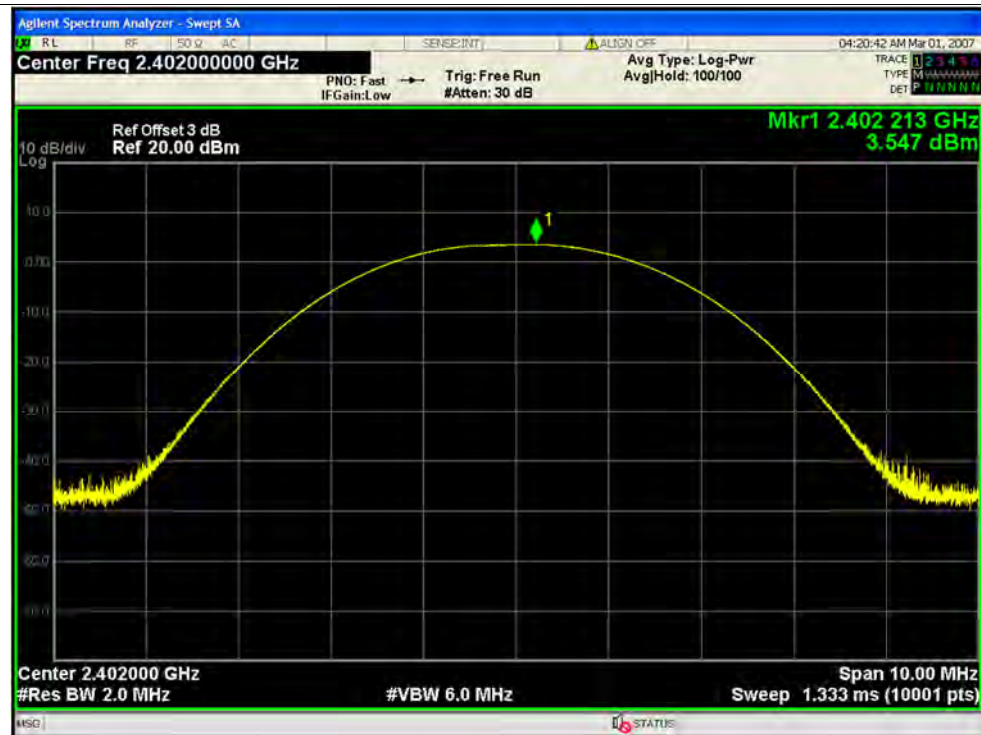


**A.2. Maximum Peak Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	3.55	0	3.55	0.00226	30	Pass
NVNT	BLE 1M	2440	Ant1	4.92	0	4.92	0.0031	30	Pass
NVNT	BLE 1M	2480	Ant1	4.28	0	4.28	0.00268	30	Pass
NVNT	BLE 2M	2402	Ant1	3.64	0	3.64	0.00231	30	Pass
NVNT	BLE 2M	2440	Ant1	5.01	0	5.01	0.00317	30	Pass
NVNT	BLE 2M	2480	Ant1	4.33	0	4.33	0.00271	30	Pass

Test Graphs

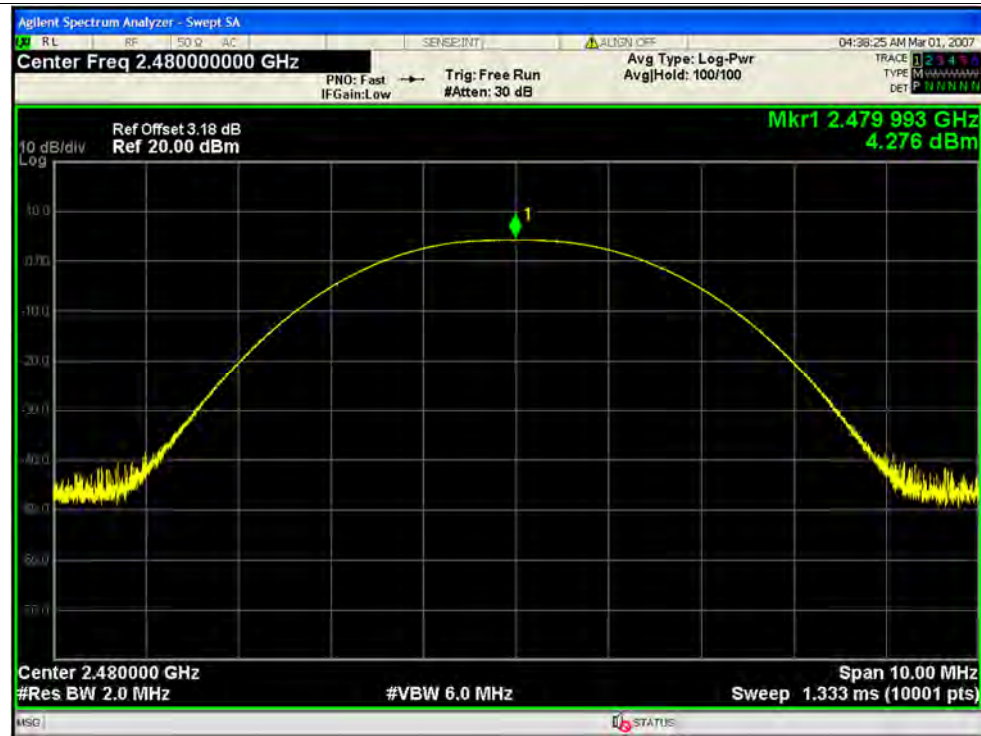
Peak Power NVNT BLE 1M 2402MHz Ant1



Peak Power NVNT BLE 1M 2440MHz Ant1



Peak Power NVNT BLE 1M 2480MHz Ant1



Peak Power NVNT BLE 2M 2402MHz Ant1



Peak Power NVNT BLE 2M 2440MHz Ant1



Peak Power NVNT BLE 2M 2480MHz Ant1



**A.3. Maximum Average Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.07	2.01	3.08	0.00203	30	Pass
NVNT	BLE 1M	2440	Ant1	2.55	2.01	4.56	0.00286	30	Pass
NVNT	BLE 1M	2480	Ant1	1.75	2.01	3.76	0.00238	30	Pass
NVNT	BLE 2M	2402	Ant1	-1.62	4.76	3.14	0.00206	30	Pass
NVNT	BLE 2M	2440	Ant1	-0.21	4.75	4.54	0.00284	30	Pass
NVNT	BLE 2M	2480	Ant1	-0.75	4.76	4.01	0.00252	30	Pass



Test Graphs

Average Power NVNT BLE 1M 2402MHz Ant1

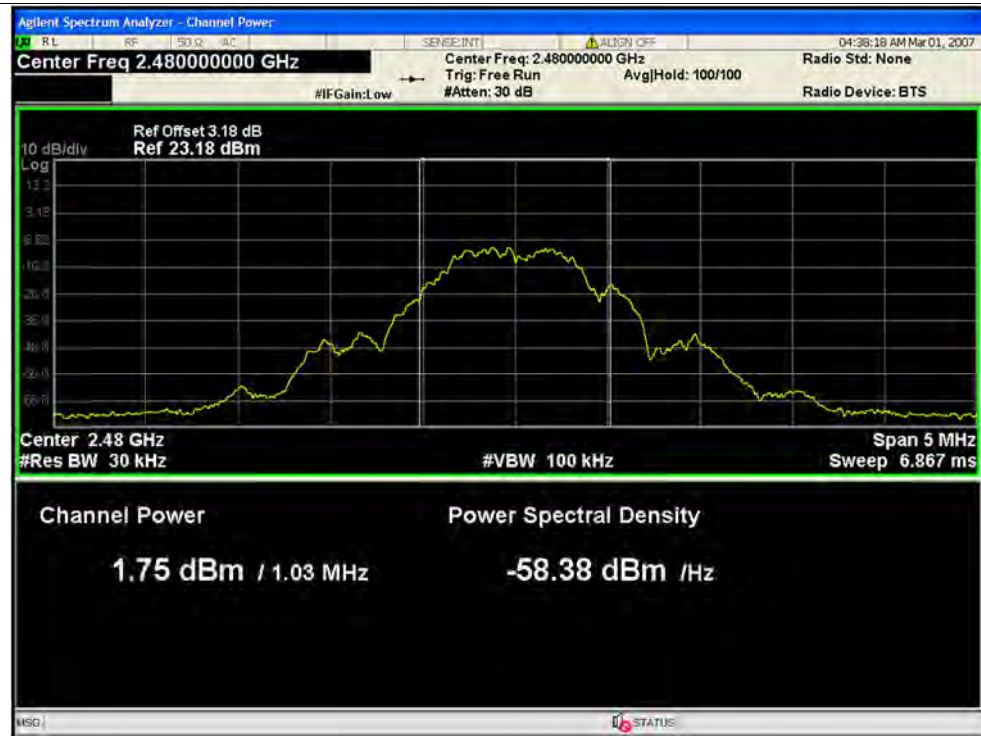


Average Power NVNT BLE 1M 2440MHz Ant1





Average Power NVNT BLE 1M 2480MHz Ant1



Average Power NVNT BLE 2M 2402MHz Ant1





Average Power NVNT BLE 2M 2440MHz Ant1



Average Power NVNT BLE 2M 2480MHz Ant1



**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6575	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6519	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6512	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.071	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.133	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.267	0.5	Pass



Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



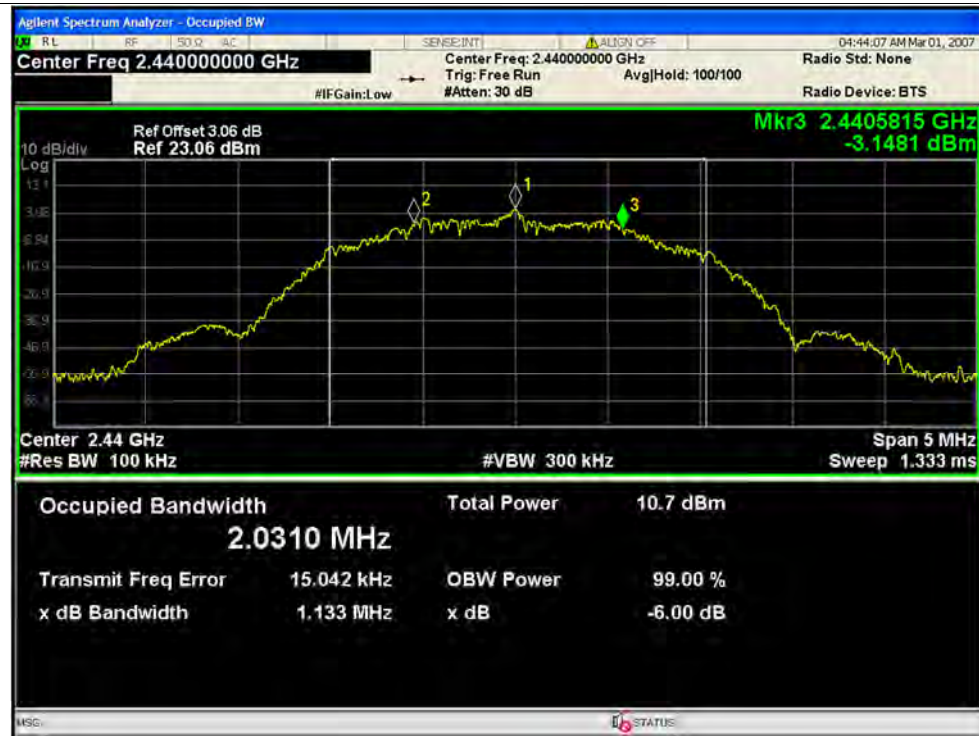
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



**A.5. Conducted Spurious Emissions**

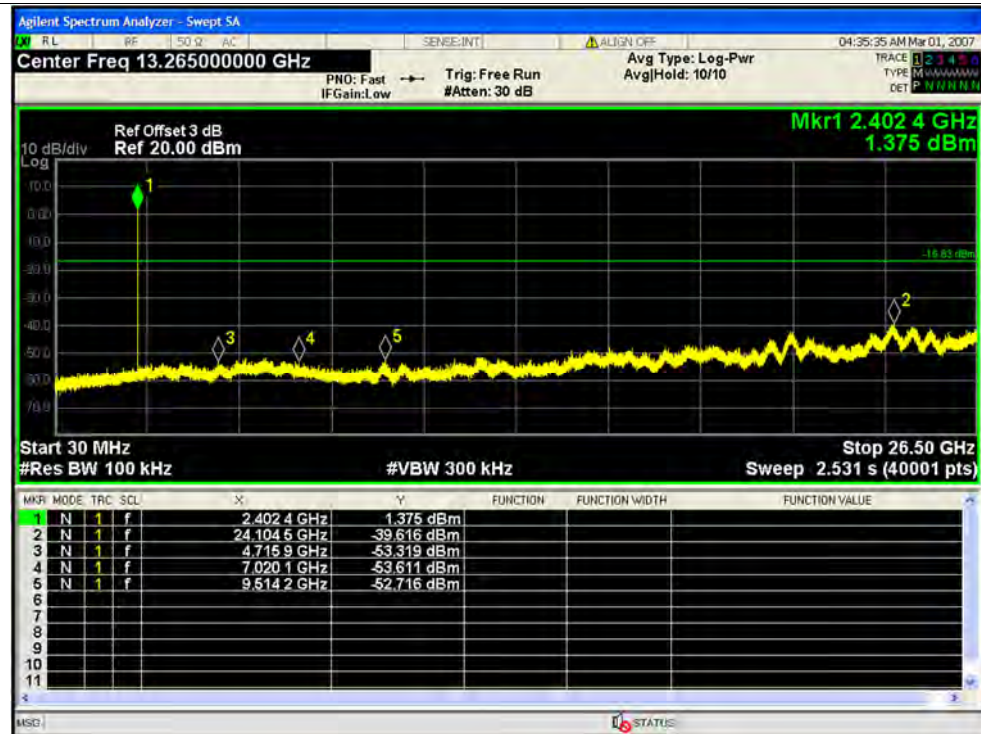
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-42.79	-20	Pass
NVNT	BLE 1M	2440	Ant1	-43.47	-20	Pass
NVNT	BLE 1M	2480	Ant1	-42.94	-20	Pass
NVNT	BLE 2M	2402	Ant1	-42.21	-20	Pass
NVNT	BLE 2M	2440	Ant1	-44.08	-20	Pass
NVNT	BLE 2M	2480	Ant1	-42.71	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



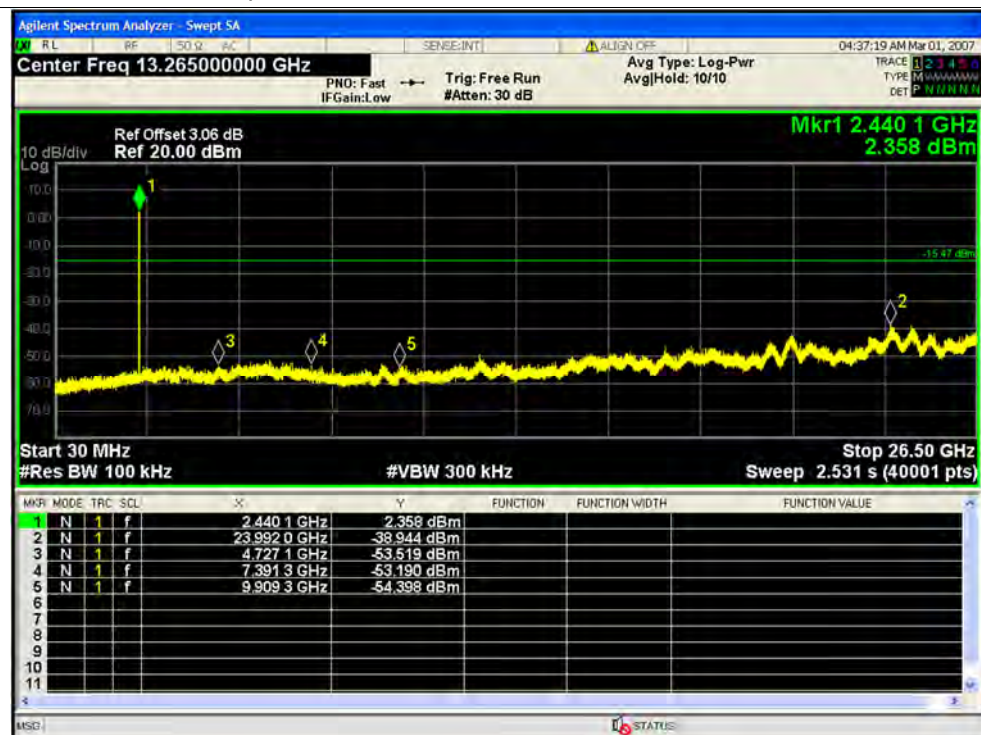
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



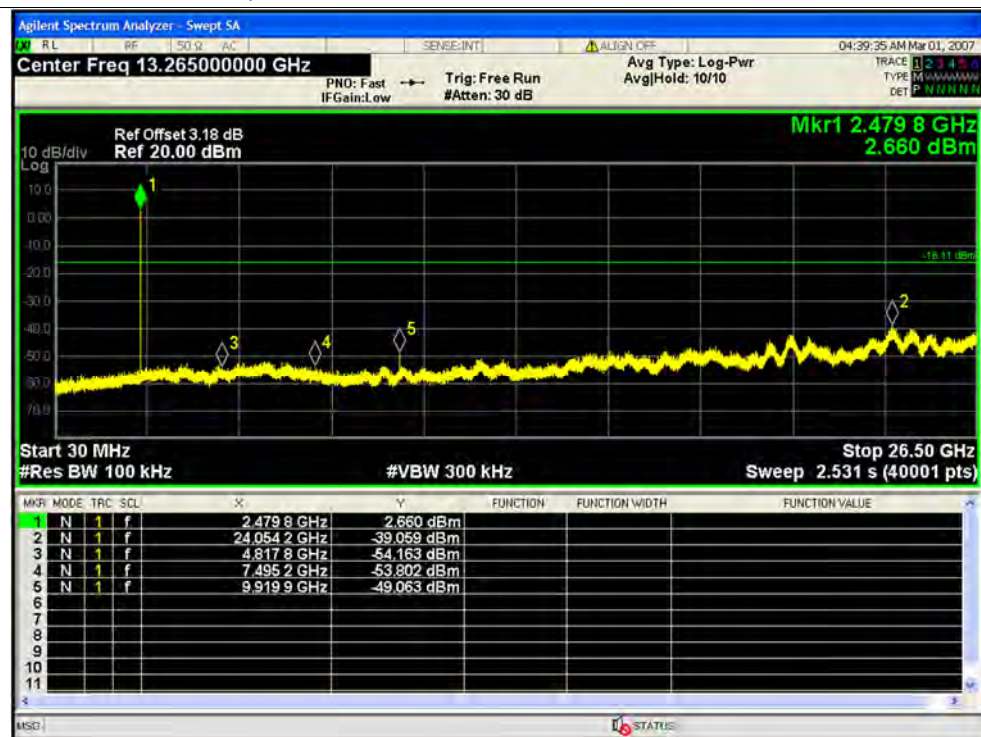
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



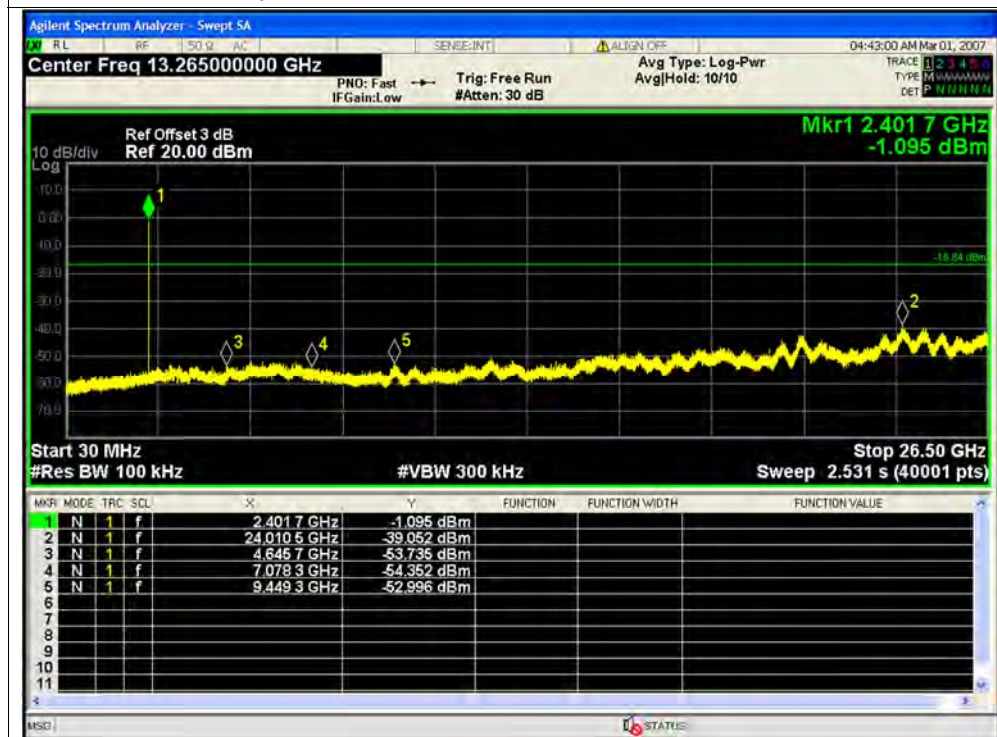
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



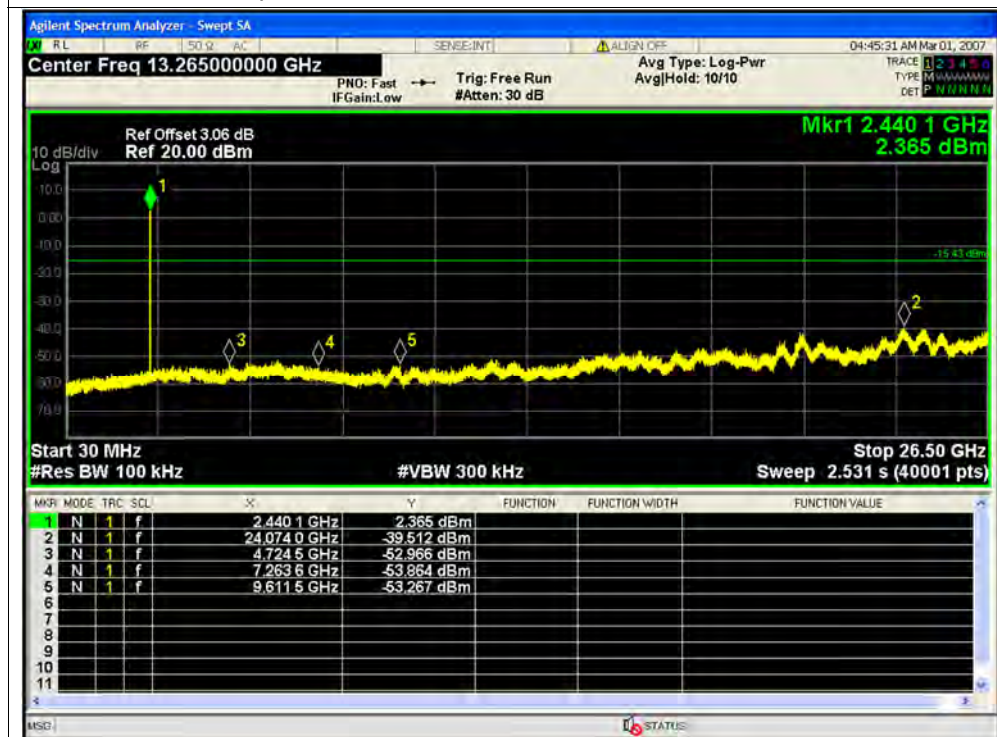
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



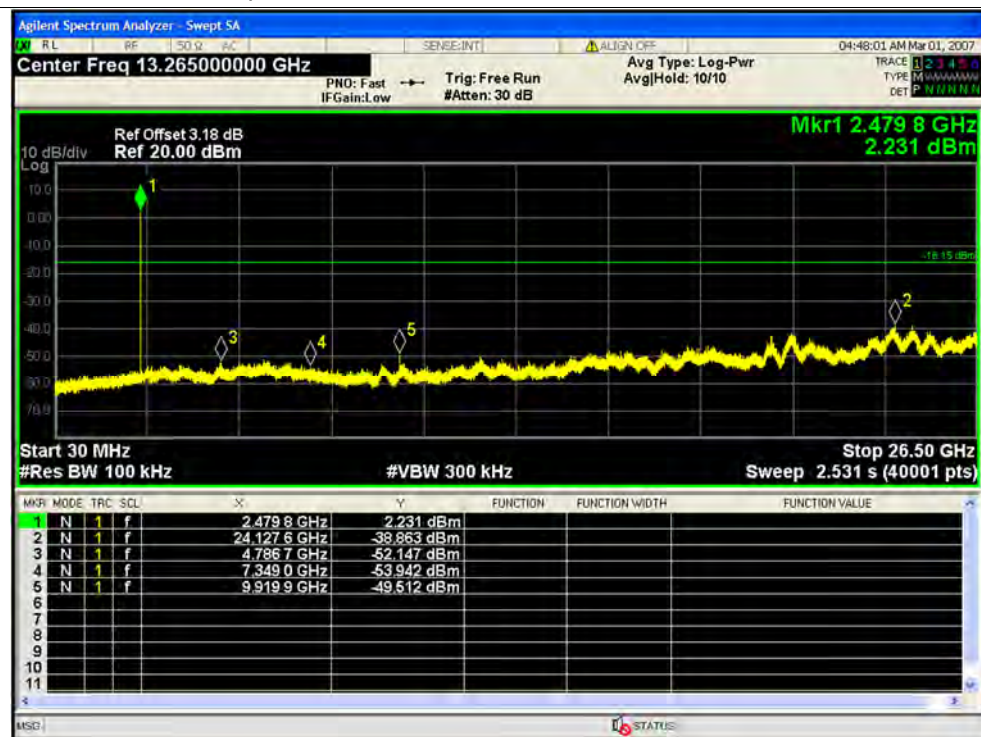
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission





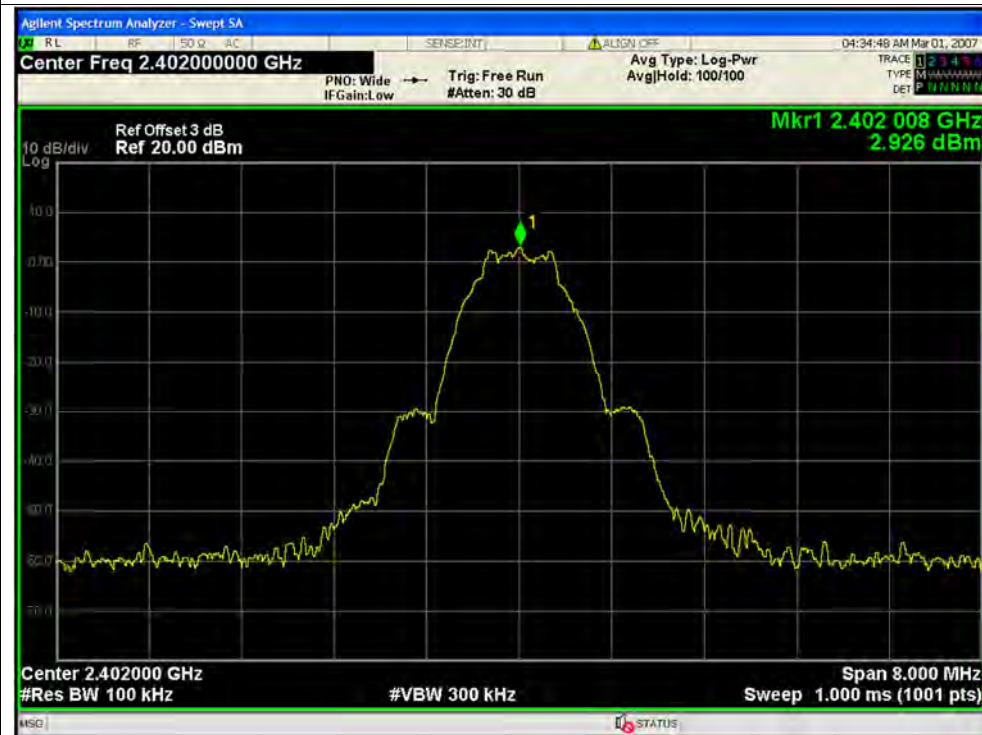
REPORT No.: SZ25040205W04

A.6. Band Edge

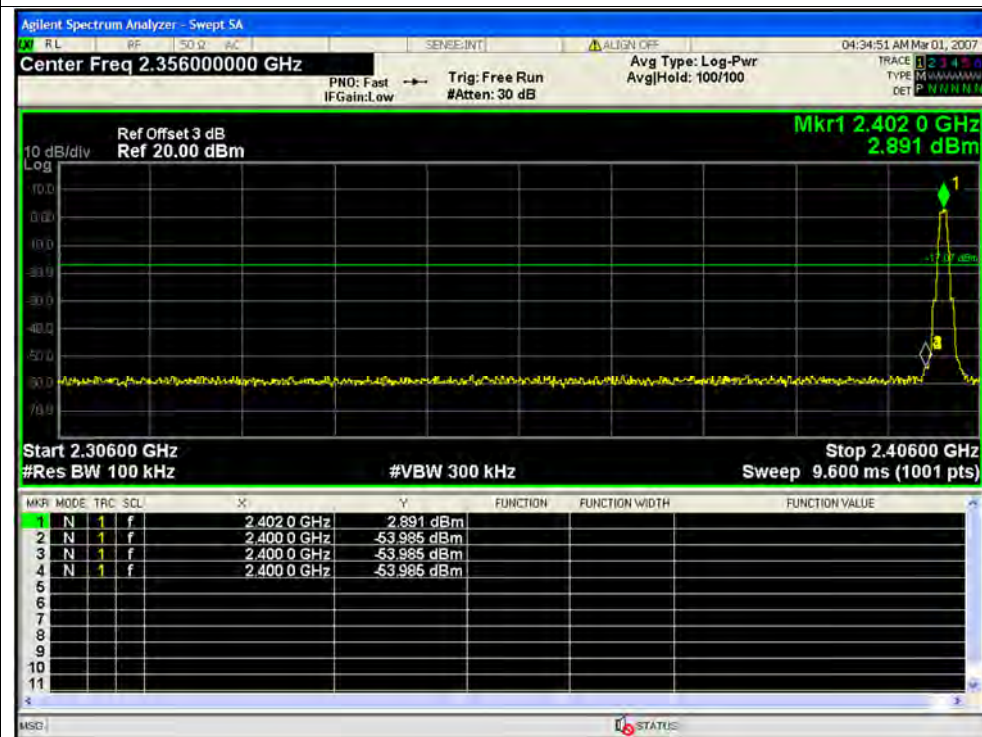
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-56.91	-20	Pass
NVNT	BLE 1M	2480	Ant1	-59.82	-20	Pass
NVNT	BLE 2M	2402	Ant1	-49.07	-20	Pass
NVNT	BLE 2M	2480	Ant1	-59.75	-20	Pass

Test Graphs

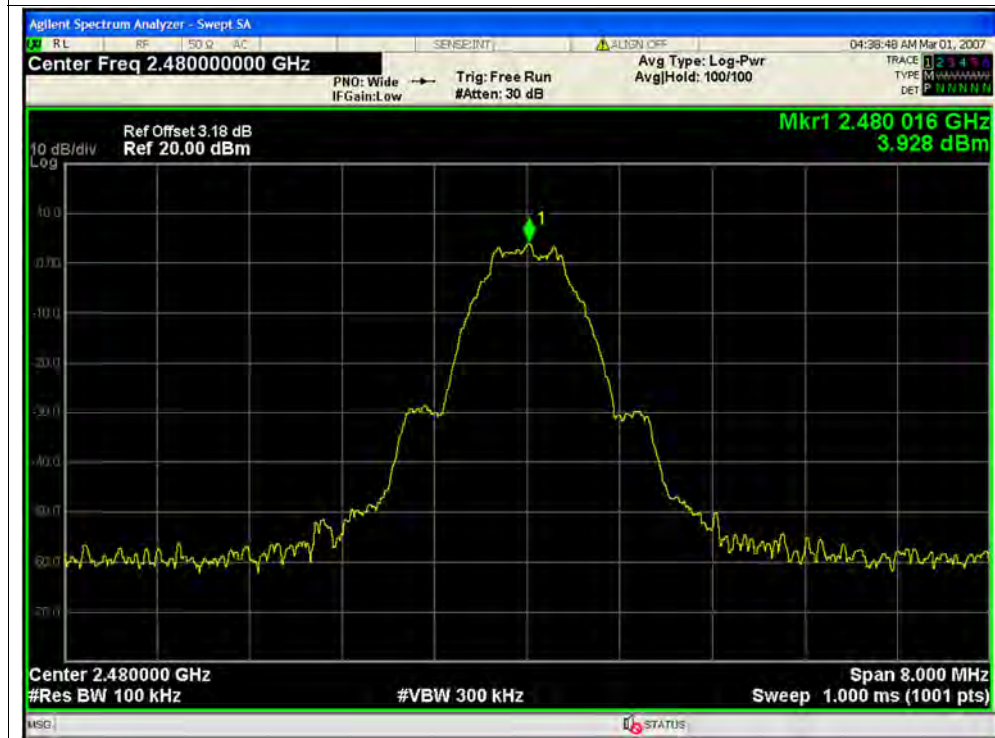
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



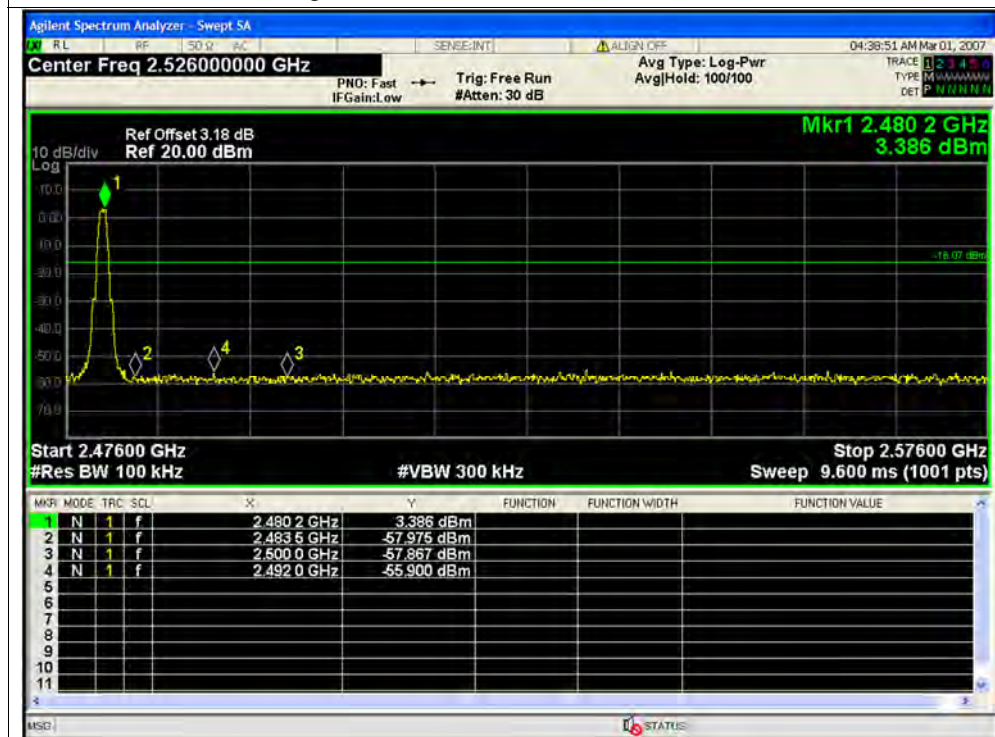
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



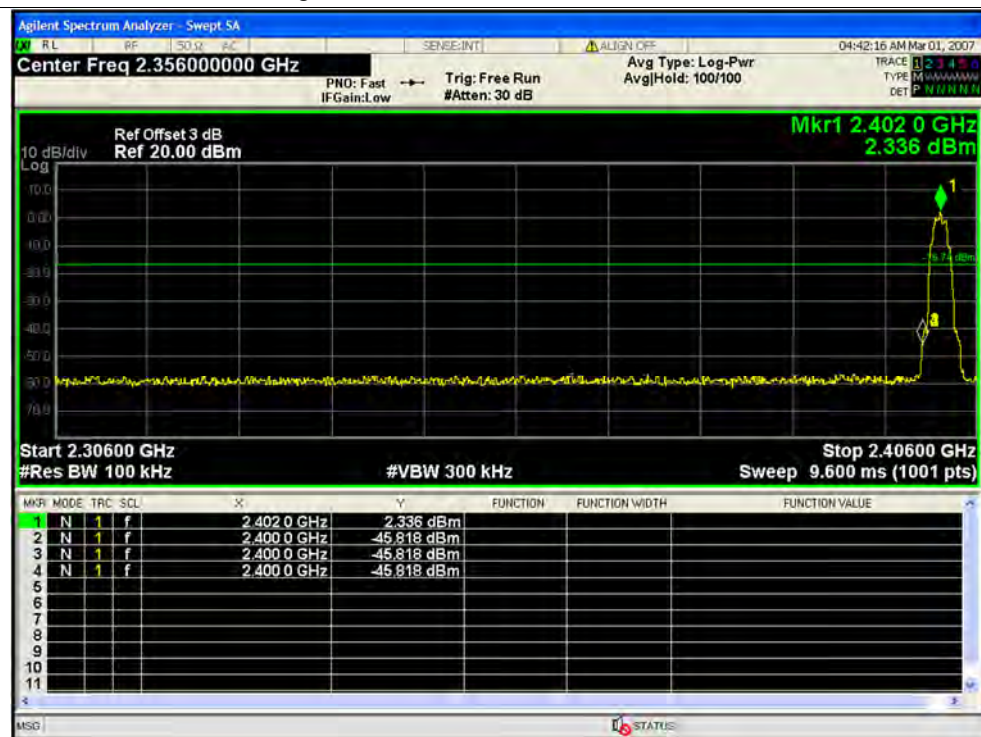
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



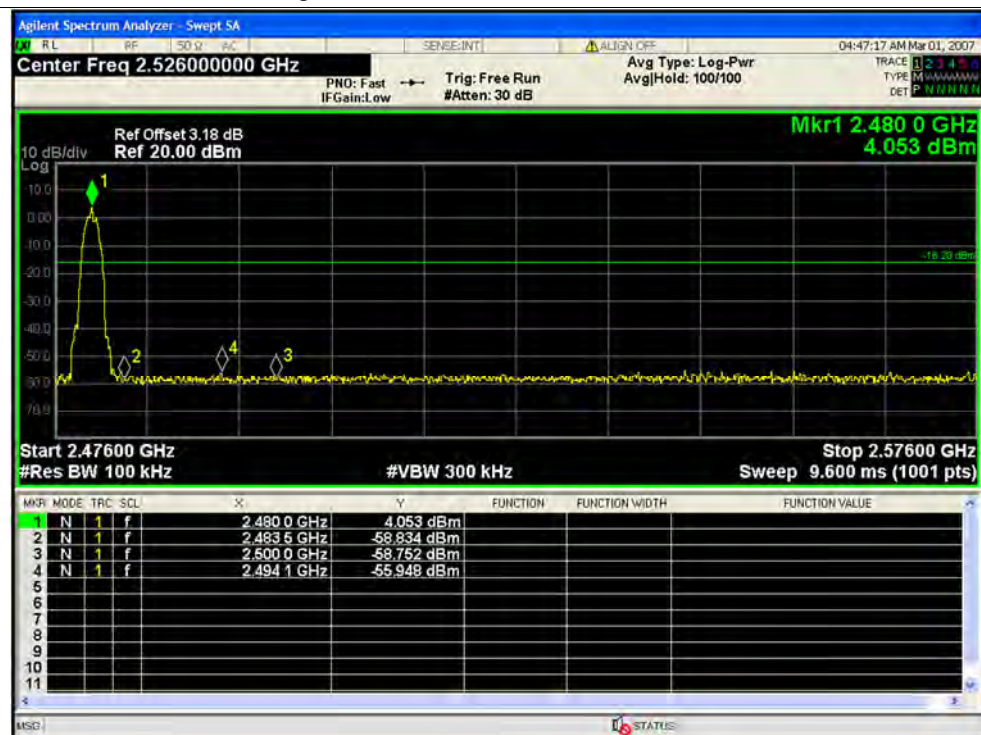
Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



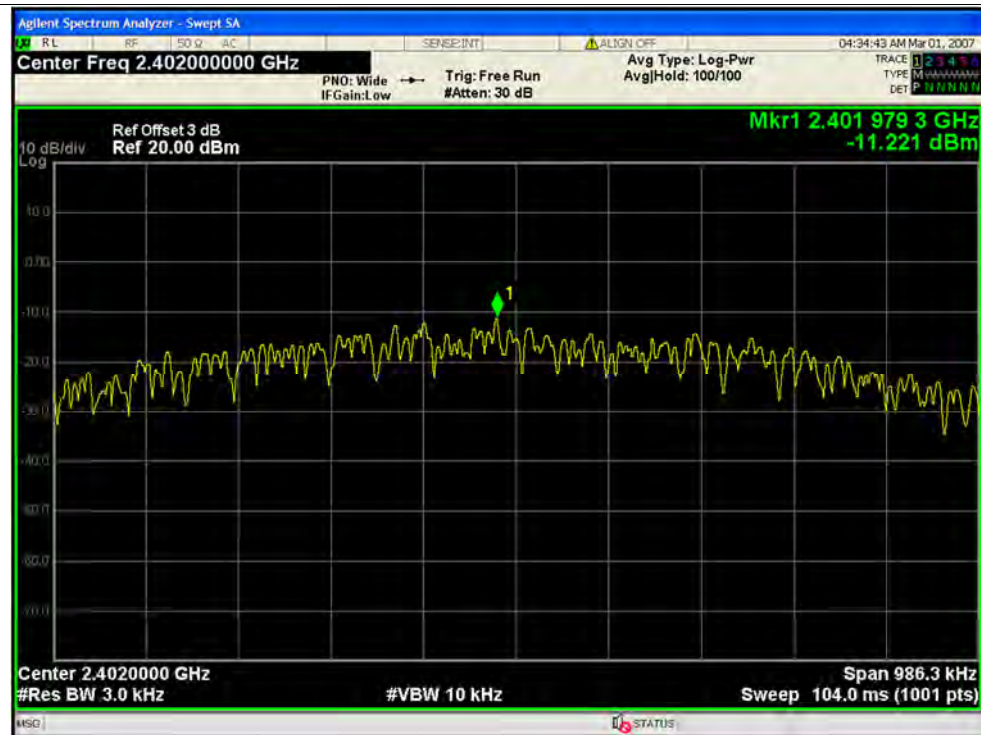
**A.7. Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-11.22	0	-11.22	8	Pass
NVNT	BLE 1M	2440	Ant1	-9.84	0	-9.84	8	Pass
NVNT	BLE 1M	2480	Ant1	-10.52	0	-10.52	8	Pass
NVNT	BLE 2M	2402	Ant1	-13.93	0	-13.93	8	Pass
NVNT	BLE 2M	2440	Ant1	-12.52	0	-12.52	8	Pass
NVNT	BLE 2M	2480	Ant1	-13.19	0	-13.19	8	Pass

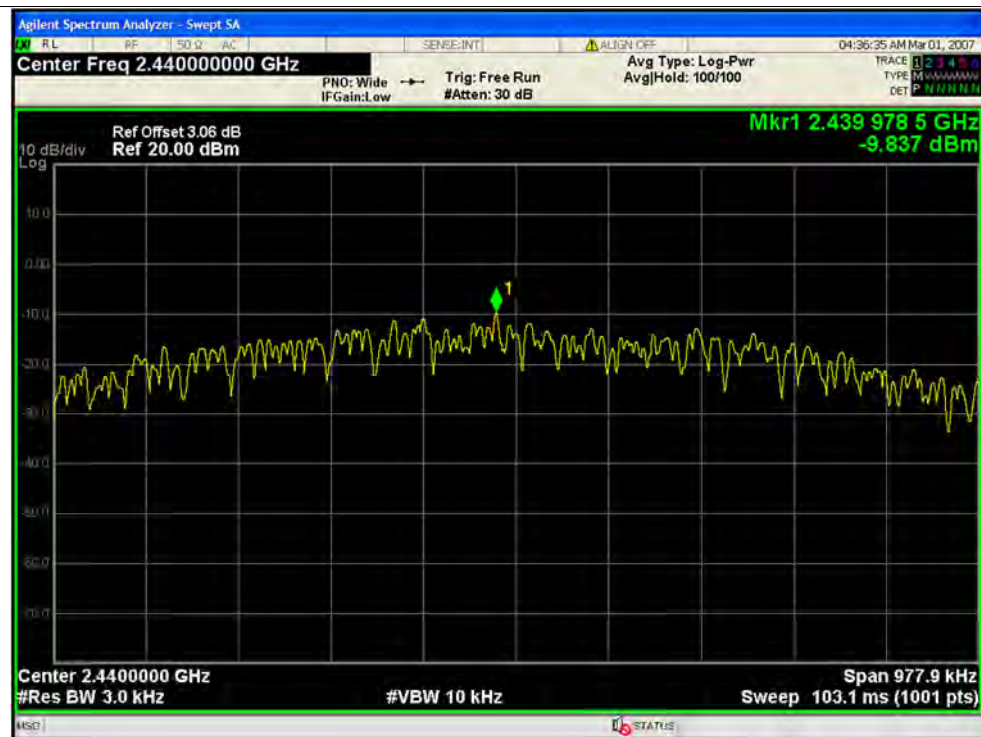


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

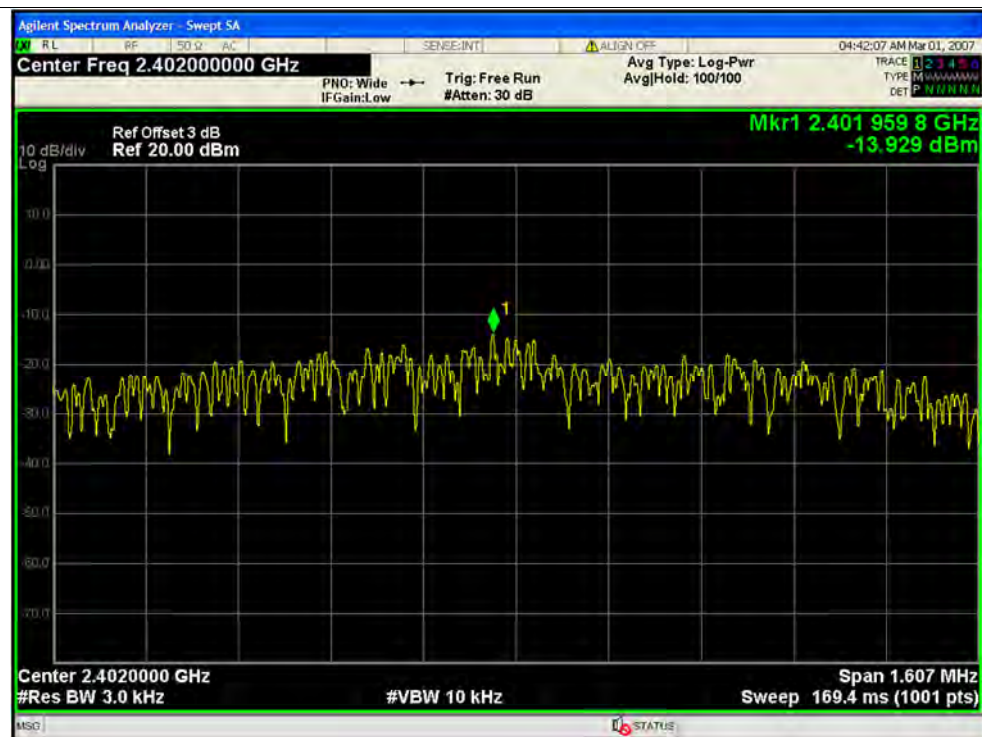




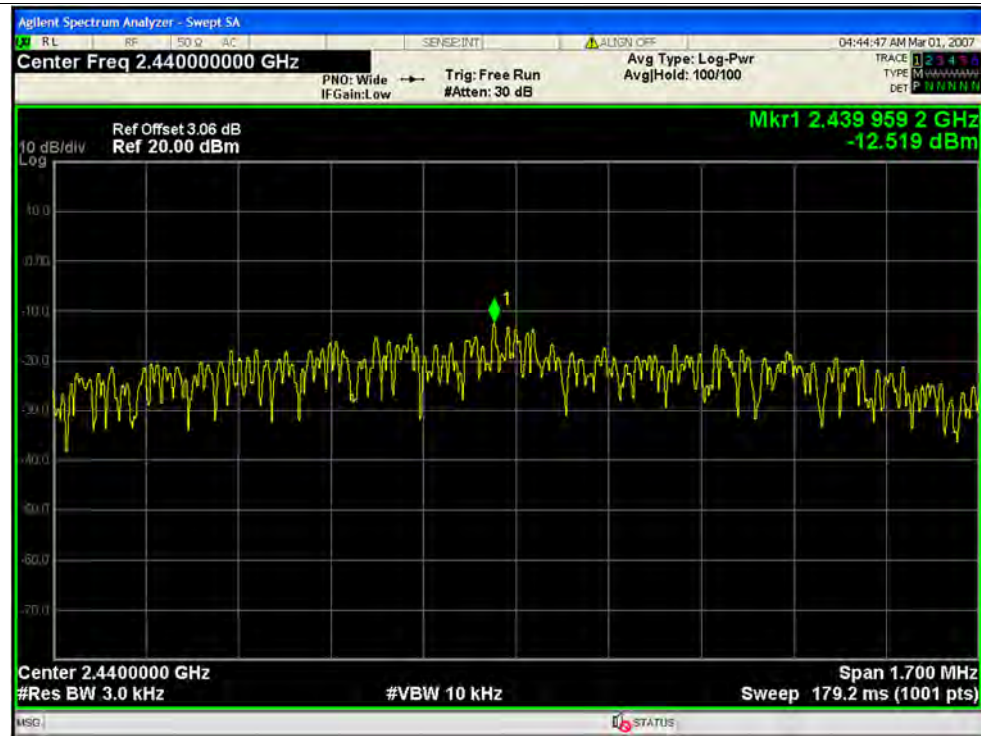
PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1





A.8. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+Adapetr+Data cable+BLE TX

Test voltage: AC 120V/60Hz

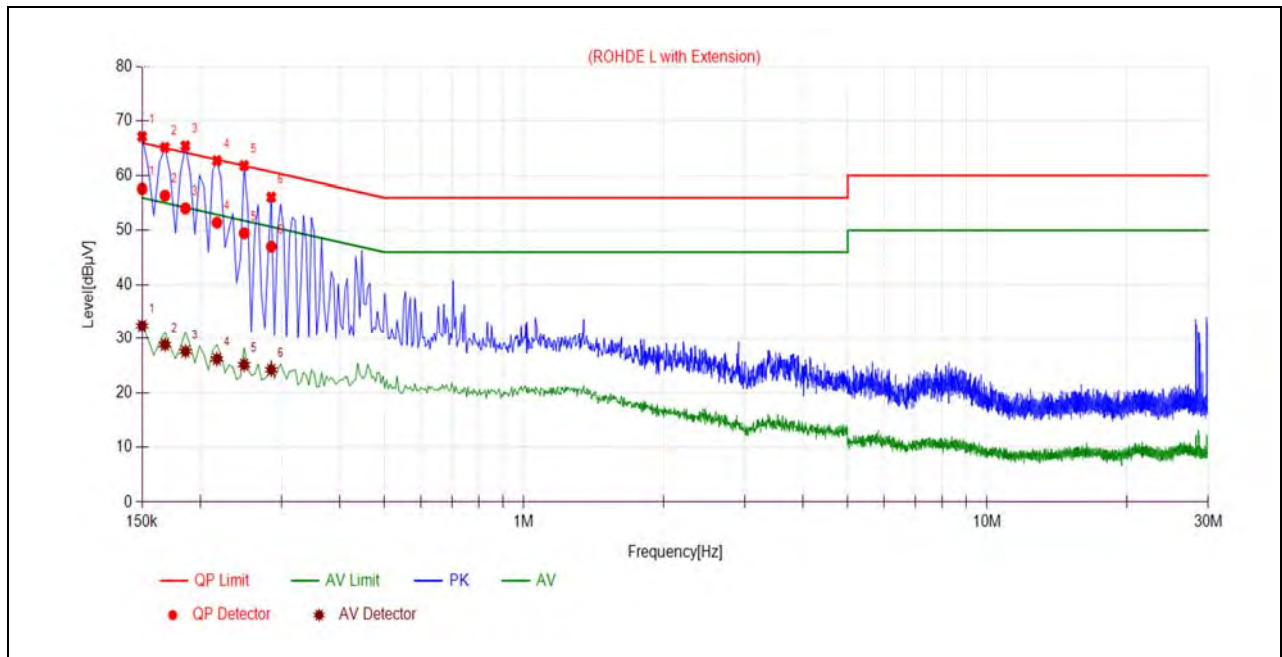
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

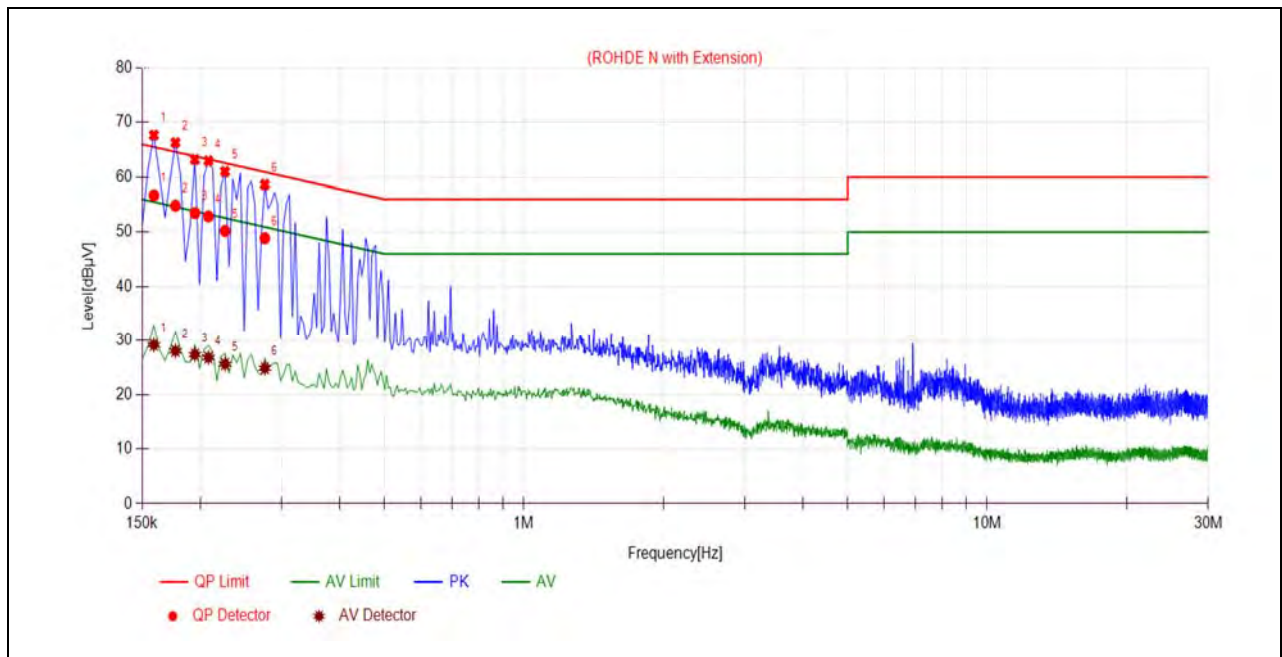
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	57.60	32.43	66.00	56.00	Line	PASS
2	0.1680	56.40	28.81	65.06	55.06		PASS
3	0.1860	54.06	27.56	64.21	54.21		PASS
4	0.2175	51.43	26.16	62.91	52.91		PASS
5	0.2490	49.48	25.12	61.79	51.79		PASS
6	0.2850	47.03	24.18	60.67	50.67		PASS



(N Phase)

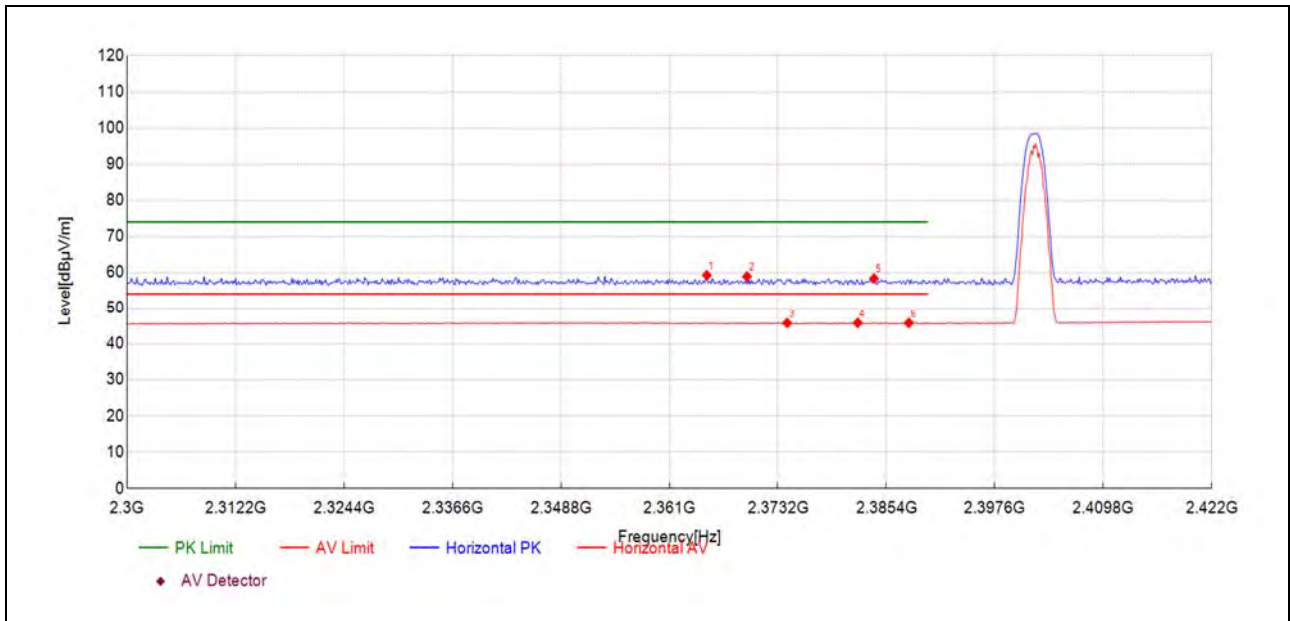
No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1590	56.72	29.17	65.52	55.52	Neutral	PASS
2	0.1770	54.83	28.04	64.63	54.63		PASS
3	0.1950	53.49	27.35	63.82	53.82		PASS
4	0.2085	52.87	26.79	63.26	53.26		PASS
5	0.2265	50.22	25.60	62.58	52.58		PASS
6	0.2760	48.88	24.84	60.94	50.94		PASS

A.9. Restricted Frequency Bands

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Horizontal) was recorded in this test report.

1Mbps

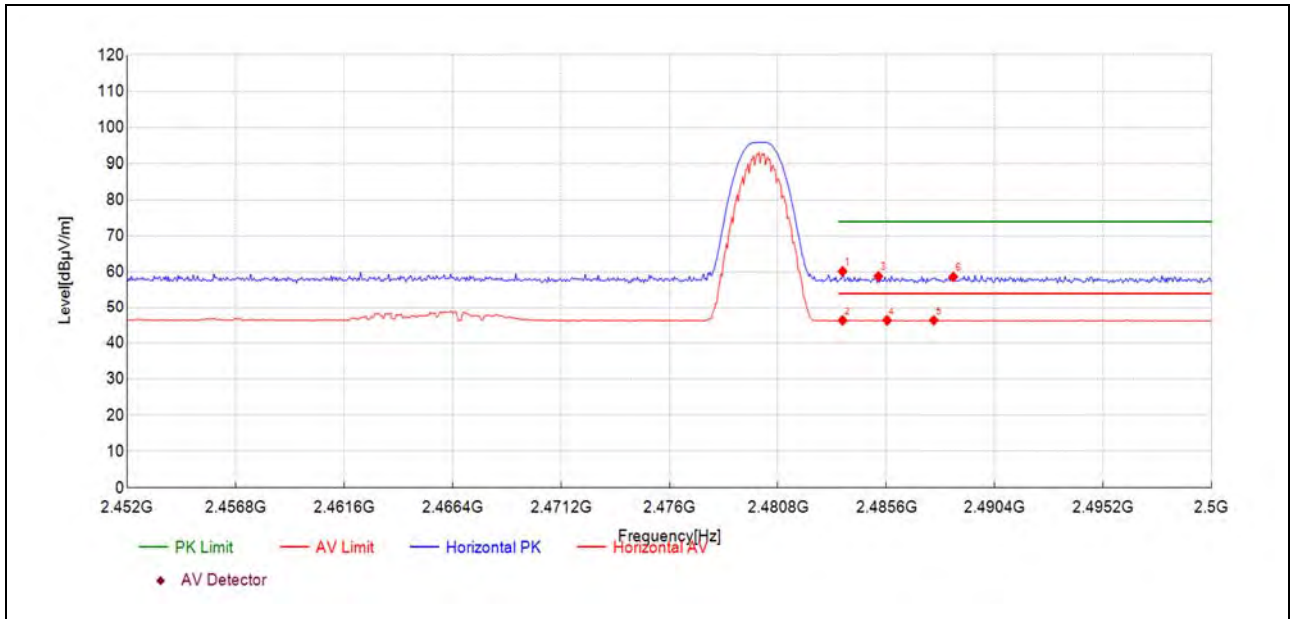
Plot for Channel 0



Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2365.21	21.8	59.27	37.470	74.00	14.73	150	276	PK	PASS
2369.73	21.4	58.90	37.470	74.00	15.10	150	56	PK	PASS
2374.25	8.3	45.79	37.480	54.00	8.21	150	276	AV	PASS
2382.19	8.4	45.85	37.480	54.00	8.15	150	219	AV	PASS
2384.02	20.9	58.35	37.490	74.00	15.65	150	232	PK	PASS
2387.93	8.3	45.83	37.490	54.00	8.17	150	307	AV	PASS



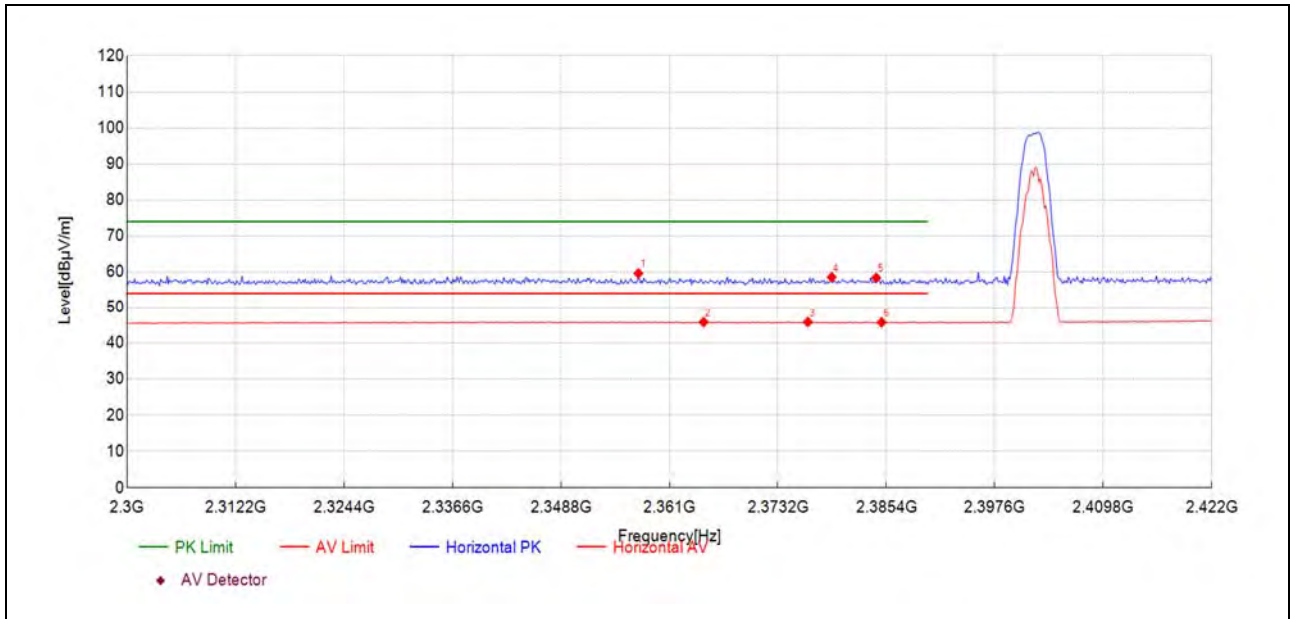
Plot for Channel 39



Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.66	21.9	60.21	38.280	74.00	13.79	150	297	PK	PASS
2483.66	8.0	46.31	38.280	54.00	7.69	150	102	AV	PASS
2485.25	20.6	58.84	38.270	74.00	15.16	150	208	PK	PASS
2485.63	8.1	46.33	38.270	54.00	7.67	150	204	AV	PASS
2487.70	8.1	46.34	38.270	54.00	7.66	150	332	AV	PASS
2488.56	20.4	58.66	38.270	74.00	15.34	150	350	PK	PASS

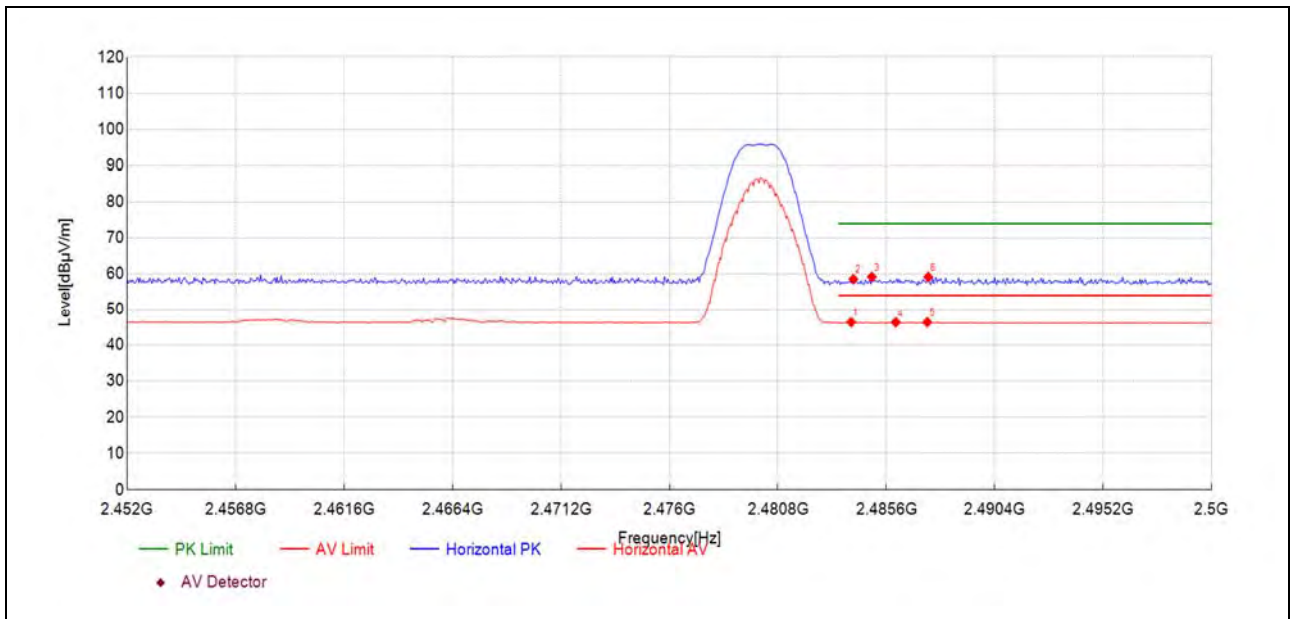
**2Mbps**

Plot for Channel 0



Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2357.52	22.2	59.63	37.460	74.00	14.37	150	18	PK	PASS
2364.85	8.4	45.85	37.470	54.00	8.15	150	176	AV	PASS
2376.57	8.4	45.89	37.480	54.00	8.11	150	9	AV	PASS
2379.26	21.1	58.54	37.480	74.00	15.46	150	248	PK	PASS
2384.26	20.9	58.38	37.490	74.00	15.62	150	234	PK	PASS
2384.87	8.3	45.77	37.490	54.00	8.23	150	221	AV	PASS

Plot for Channel 39



Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.05	8.1	46.40	38.270	54.00	7.60	150	125	AV	PASS
2484.14	20.3	58.58	38.270	74.00	15.42	150	152	PK	PASS
2484.96	20.9	59.21	38.270	74.00	14.79	150	355	PK	PASS
2486.02	8.1	46.37	38.280	54.00	7.63	150	285	AV	PASS
2487.41	8.1	46.39	38.270	54.00	7.61	150	245	AV	PASS
2487.46	20.9	59.18	38.270	74.00	14.82	150	6	PK	PASS



A.10. Radiated Emission

According to ANSI C63.10, 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 (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

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.

Note1: 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.

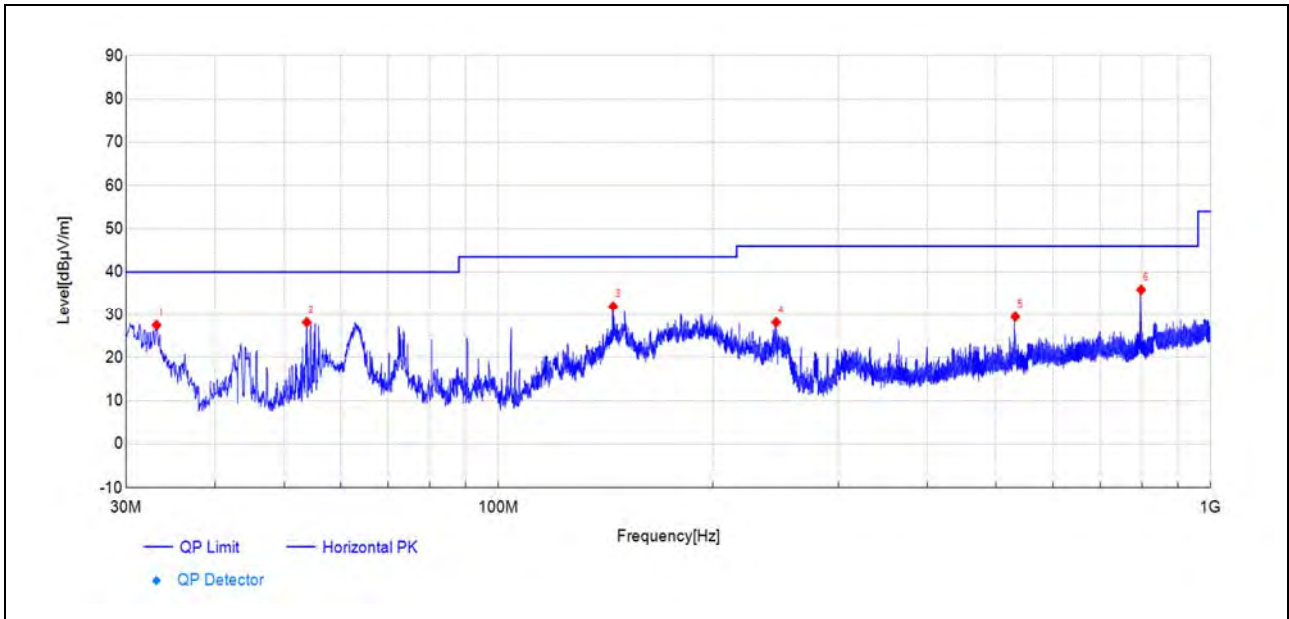
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note4: All test modes were considered and evaluated respectively by performing full test, only the worst data were recorded.

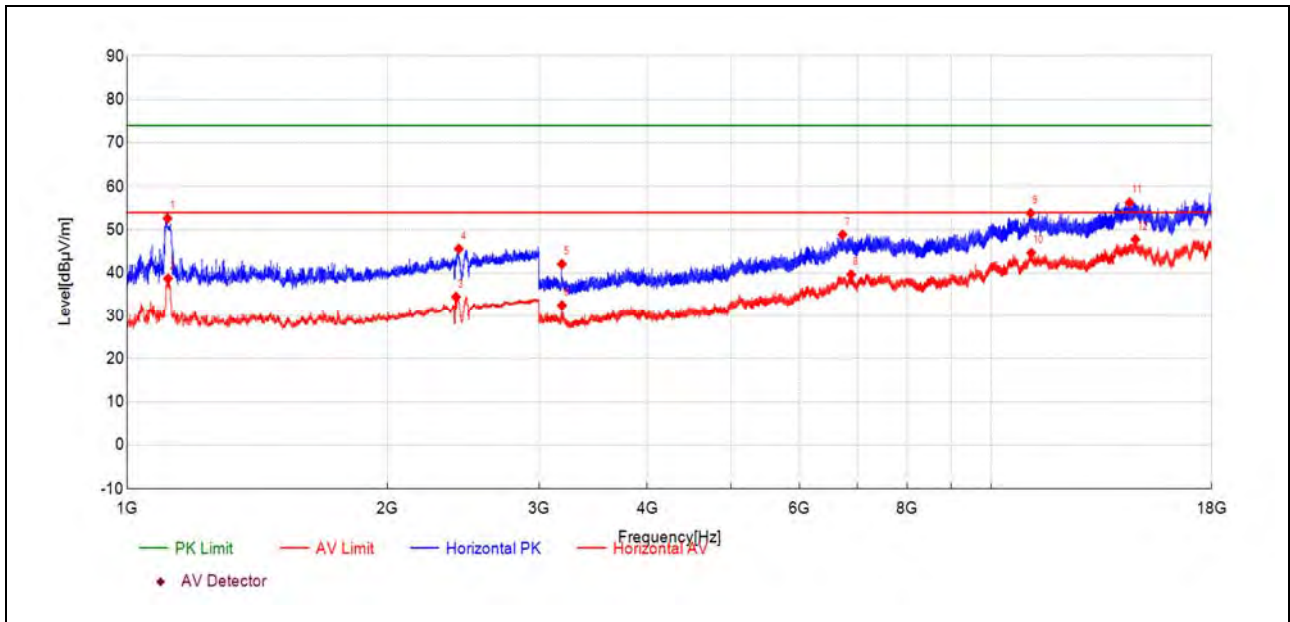
1Mbps

Plot for Channel 0



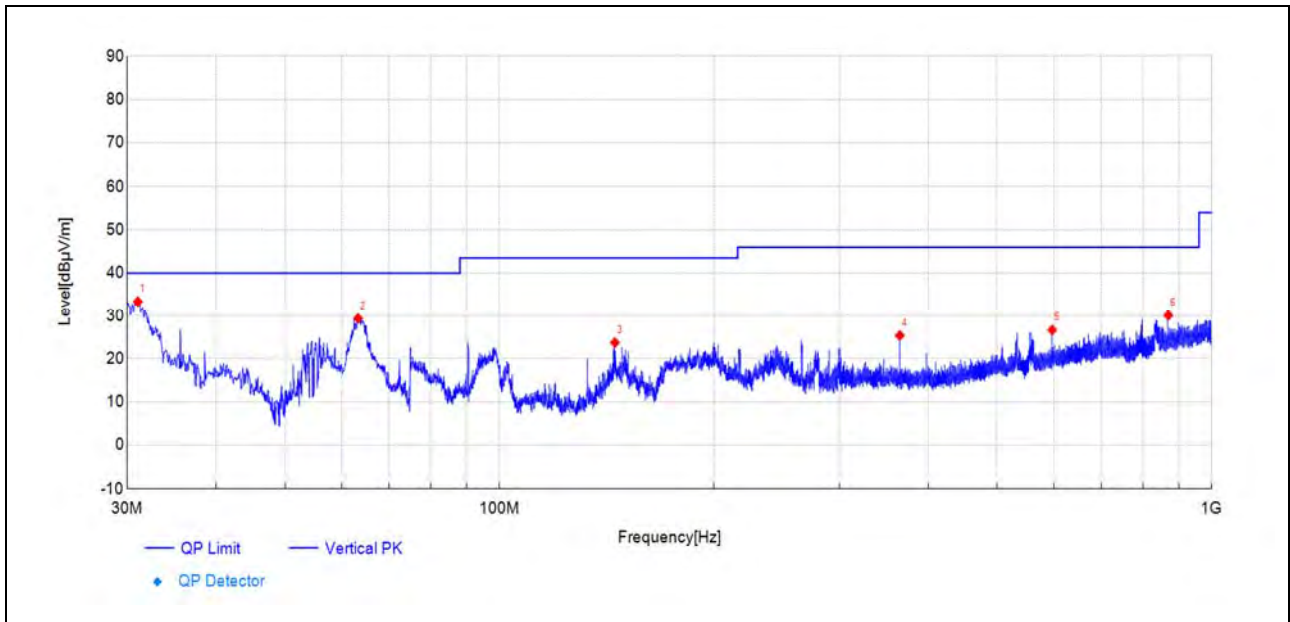
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
33.10	57.9	27.51	-30.400	40.00	12.49	150	45	PK	PASS
53.81	55.8	28.15	-27.600	40.00	11.85	150	351	PK	PASS
144.90	63.4	31.96	-31.430	43.50	11.54	150	79	PK	PASS
245.40	55.6	28.15	-27.440	46.00	17.85	150	338	PK	PASS
531.61	48.4	29.48	-18.960	46.00	16.52	150	351	PK	PASS
798.57	50.5	35.87	-14.590	46.00	10.13	150	139	PK	PASS



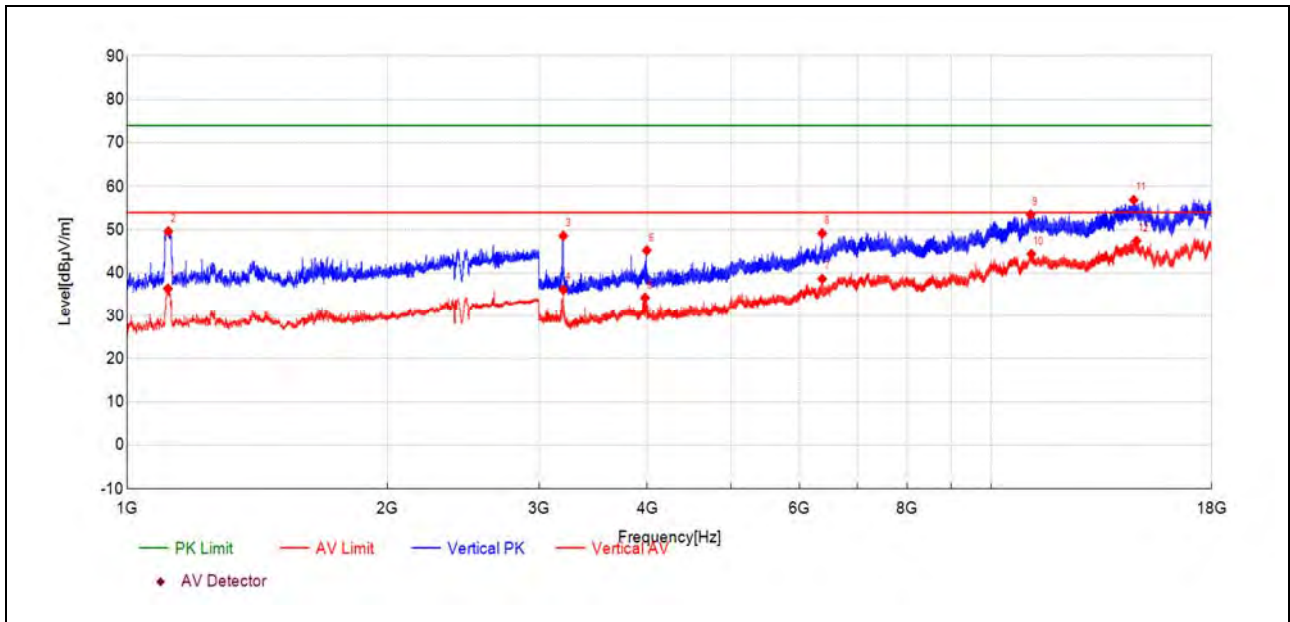
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1114.02	54.9	52.66	-2.230	74.00	21.34	150	164	PK	PASS
1115.62	41.0	38.76	-2.220	54.00	15.24	150	164	AV	PASS
2402.68	29.2	34.47	5.260	54.00	19.53	150	153	AV	PASS
2421.08	40.1	45.61	5.540	74.00	28.39	150	54	PK	PASS
3186.01	52.8	42.10	-10.720	74.00	31.90	150	64	PK	PASS
3186.43	43.2	32.49	-10.720	54.00	21.51	150	50	AV	PASS
6729.96	44.8	48.89	4.080	74.00	25.11	150	291	PK	PASS
6886.83	35.9	39.66	3.750	54.00	14.34	150	90	AV	PASS
11107.95	39.8	53.86	14.030	74.00	20.14	150	319	PK	PASS
11128.95	30.8	44.68	13.910	54.00	9.32	150	357	AV	PASS
14463.76	36.9	56.32	19.400	74.00	17.68	150	238	PK	PASS
14686.62	27.2	47.79	20.560	54.00	6.21	150	130	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

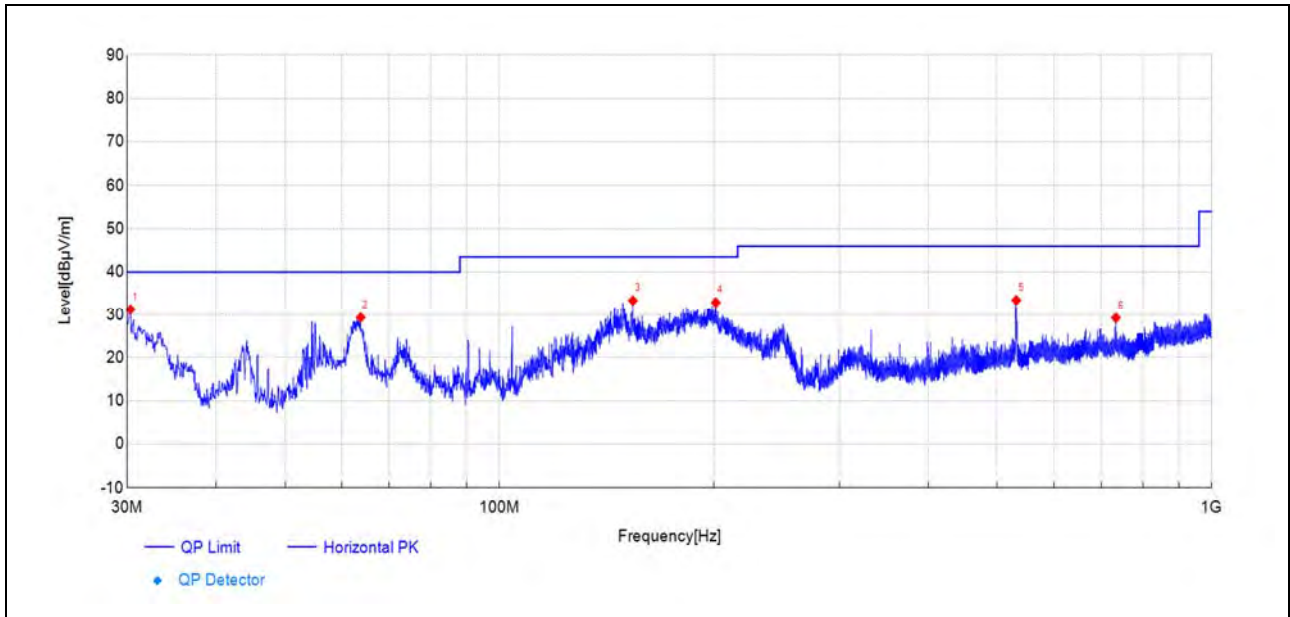
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
31.07	64.1	33.36	-30.690	40.00	6.64	150	109	PK	PASS
63.32	58.4	29.34	-29.080	40.00	10.66	150	49	PK	PASS
145.24	55.2	23.70	-31.540	43.50	19.80	150	352	PK	PASS
364.76	48.8	25.36	-23.420	46.00	20.64	150	16	PK	PASS
597.04	44.0	26.63	-17.380	46.00	19.37	150	56	PK	PASS
869.04	42.5	30.06	-12.430	46.00	15.94	150	190	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

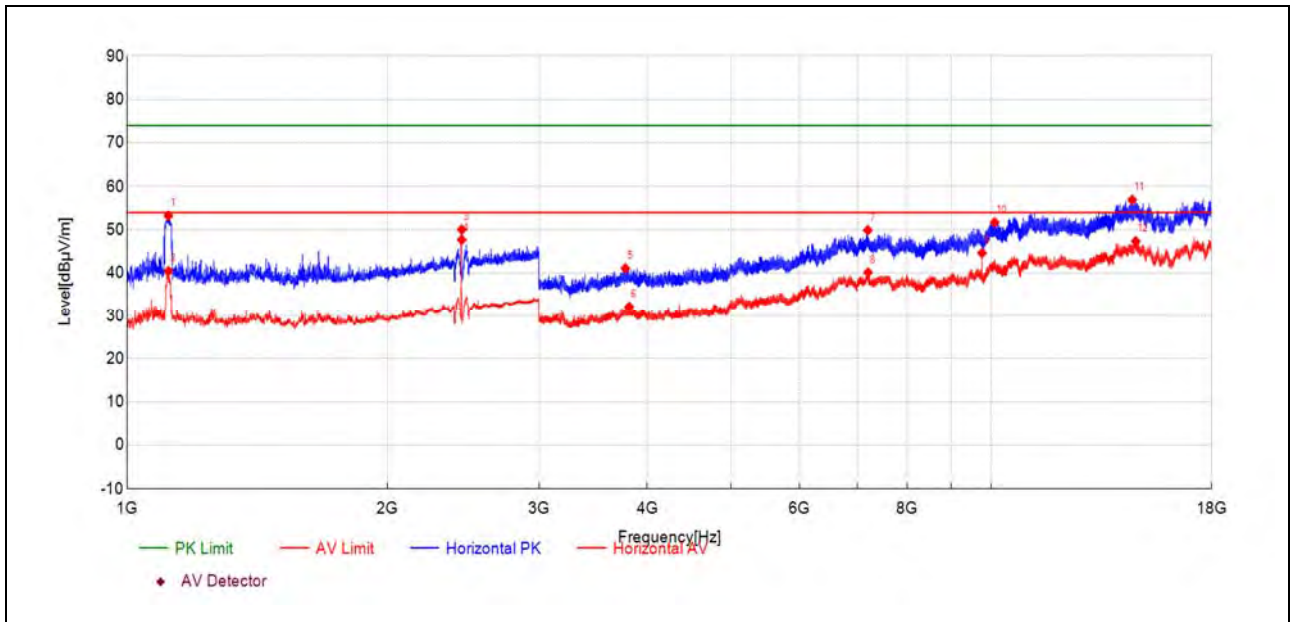
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1115.22	38.6	36.40	-2.230	54.00	17.60	150	141	AV	PASS
1116.42	51.9	49.67	-2.220	74.00	24.33	150	153	PK	PASS
3198.43	59.5	48.62	-10.830	74.00	25.38	150	307	PK	PASS
3198.86	47.0	36.14	-10.840	54.00	17.86	150	307	AV	PASS
3976.74	42.2	34.27	-7.970	54.00	19.73	150	90	AV	PASS
3994.74	53.4	45.24	-8.110	74.00	28.76	150	105	PK	PASS
6374.67	37.5	38.63	1.100	54.00	15.37	150	252	AV	PASS
6374.67	48.1	49.20	1.100	74.00	24.80	150	252	PK	PASS
11108.37	39.5	53.53	14.030	74.00	20.47	150	36	PK	PASS
11133.23	30.6	44.43	13.880	54.00	9.57	150	105	AV	PASS
14622.76	36.5	56.90	20.400	74.00	17.10	150	334	PK	PASS
14738.48	27.2	47.46	20.270	54.00	6.54	150	171	AV	PASS

Plot for Channel 19



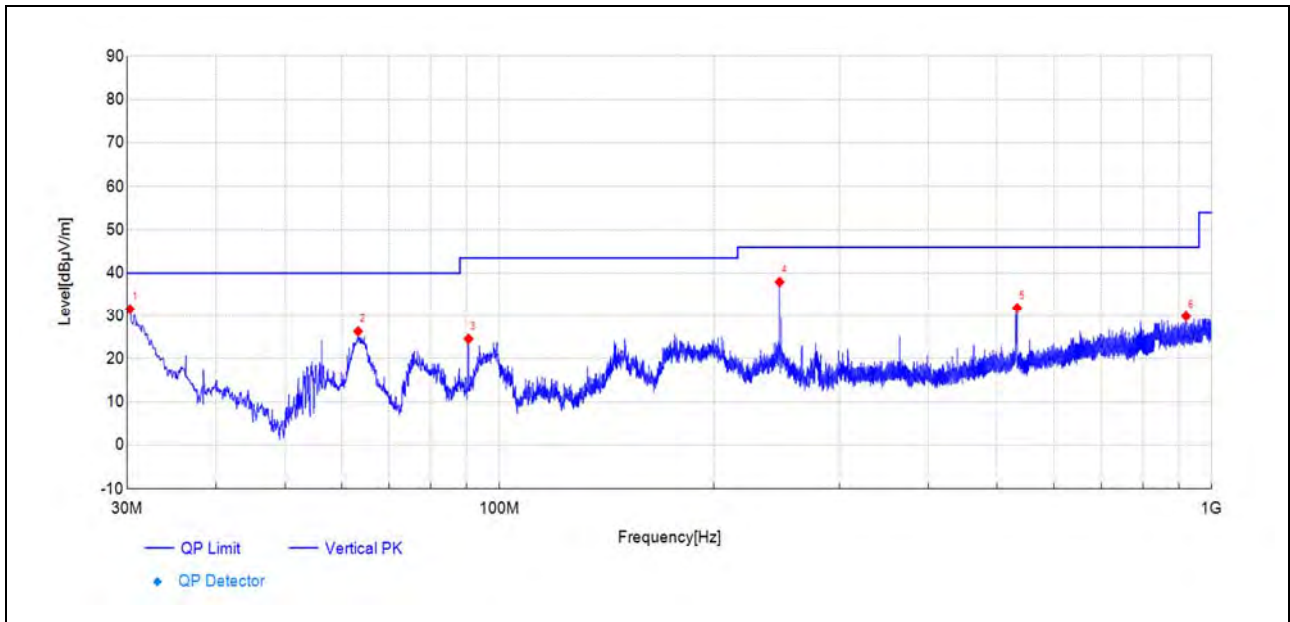
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
30.34	62.0	31.25	-30.790	40.00	8.75	150	61	PK	PASS
63.85	58.5	29.31	-29.190	40.00	10.69	150	33	PK	PASS
153.92	65.0	33.36	-31.670	43.50	10.14	150	81	PK	PASS
201.26	61.8	32.89	-28.930	43.50	10.61	150	175	PK	PASS
531.56	52.4	33.44	-18.950	46.00	12.56	150	101	PK	PASS
733.58	44.3	29.23	-15.090	46.00	16.77	150	134	PK	PASS



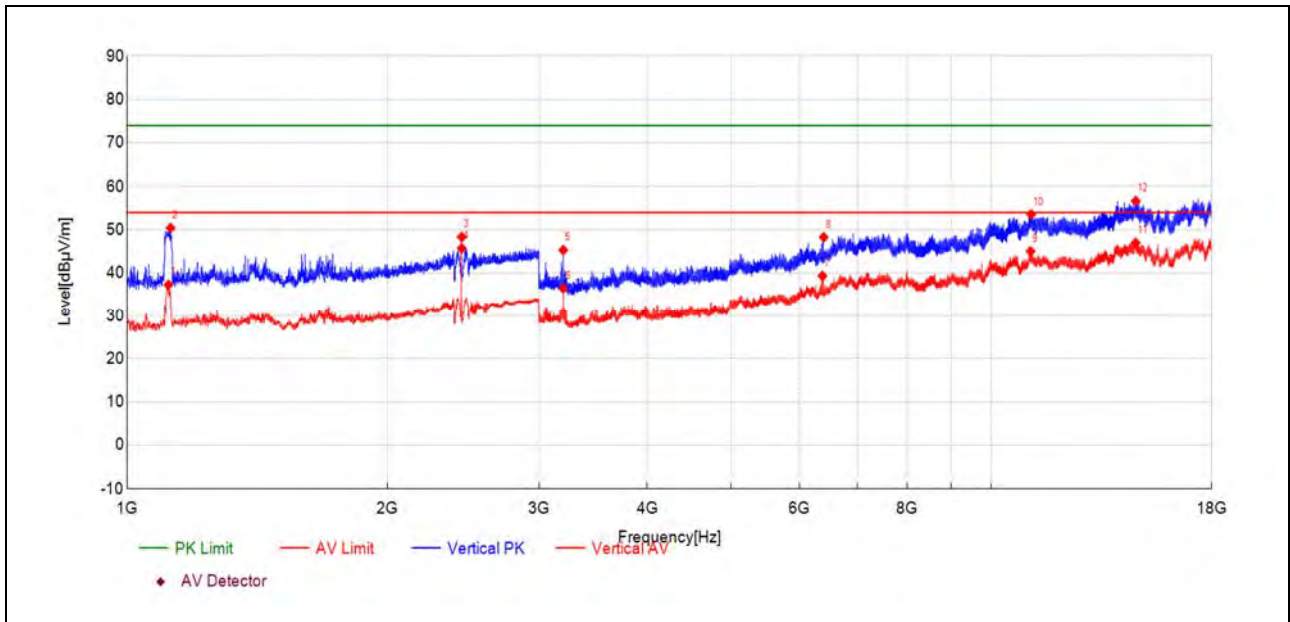
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1116.42	55.5	53.29	-2.220	74.00	20.71	150	157	PK	PASS
1116.82	42.7	40.45	-2.220	54.00	13.55	150	157	AV	PASS
2439.89	44.2	50.06	5.820	-	-	150	151	PK	PASS
2440.29	41.9	47.70	5.820	-	-	150	151	AV	PASS
3774.02	49.4	41.09	-8.330	74.00	32.91	150	308	PK	PASS
3811.74	40.3	32.14	-8.190	54.00	21.86	150	89	AV	PASS
7199.26	44.8	49.92	5.110	74.00	24.08	150	334	PK	PASS
7203.12	35.1	40.14	5.070	54.00	13.86	150	9	AV	PASS
9760.48	35.6	44.65	9.030	54.00	9.35	150	171	AV	PASS
10094.35	41.0	51.74	10.700	74.00	22.26	150	24	PK	PASS
14562.76	36.8	56.93	20.130	74.00	17.07	150	77	PK	PASS
14699.48	26.8	47.39	20.600	54.00	6.61	150	240	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

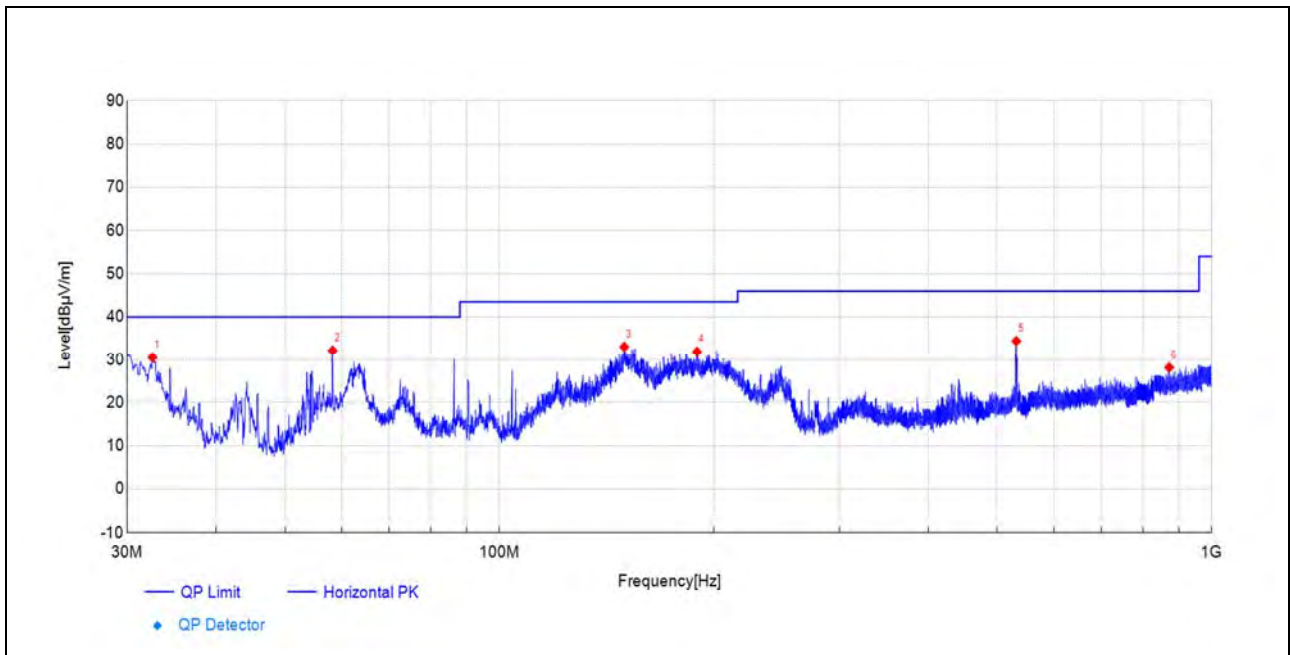
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
30.29	62.3	31.55	-30.790	40.00	8.45	150	22	PK	PASS
63.32	55.4	26.30	-29.080	40.00	13.70	150	22	PK	PASS
90.48	56.0	24.55	-31.470	43.50	18.95	150	178	PK	PASS
247.34	65.4	37.94	-27.460	46.00	8.06	150	131	PK	PASS
533.16	50.9	31.84	-19.020	46.00	14.16	150	212	PK	PASS
920.46	41.4	29.83	-11.530	46.00	16.17	150	97	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

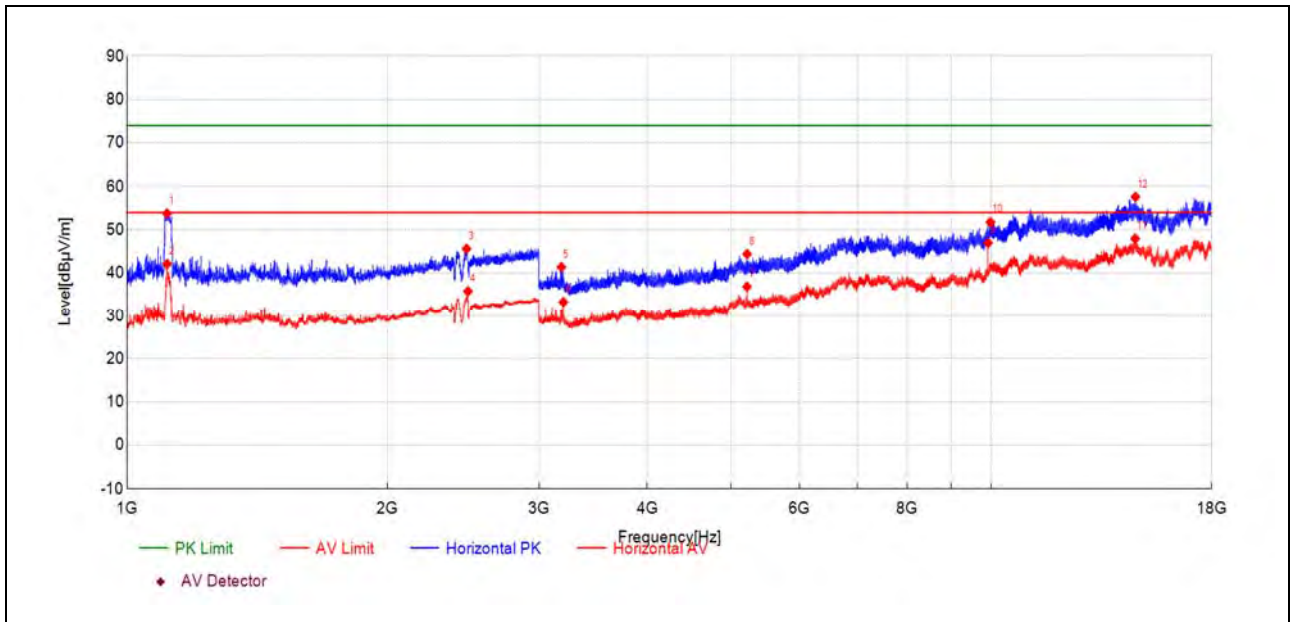
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1116.82	39.5	37.29	-2.220	54.00	16.71	150	152	AV	PASS
1123.22	52.6	50.45	-2.160	74.00	23.55	150	146	PK	PASS
2439.89	42.5	48.36	5.820	-	-	150	74	PK	NA
2440.29	39.9	45.76	5.820	-	-	150	74	AV	NA
3197.58	56.1	45.30	-10.830	74.00	28.70	150	307	PK	PASS
3198.01	47.3	36.43	-10.830	54.00	17.57	150	307	AV	PASS
6379.38	38.3	39.35	1.080	54.00	14.65	150	186	AV	PASS
6399.95	47.3	48.28	1.000	74.00	25.72	150	24	PK	PASS
11110.09	31.0	45.05	14.020	54.00	8.95	150	172	AV	PASS
11125.09	39.7	53.59	13.920	74.00	20.41	150	240	PK	PASS
14694.76	26.4	47.02	20.580	54.00	6.98	150	280	AV	PASS
14701.19	36.1	56.69	20.590	74.00	17.31	150	64	PK	PASS

Plot for Channel 39



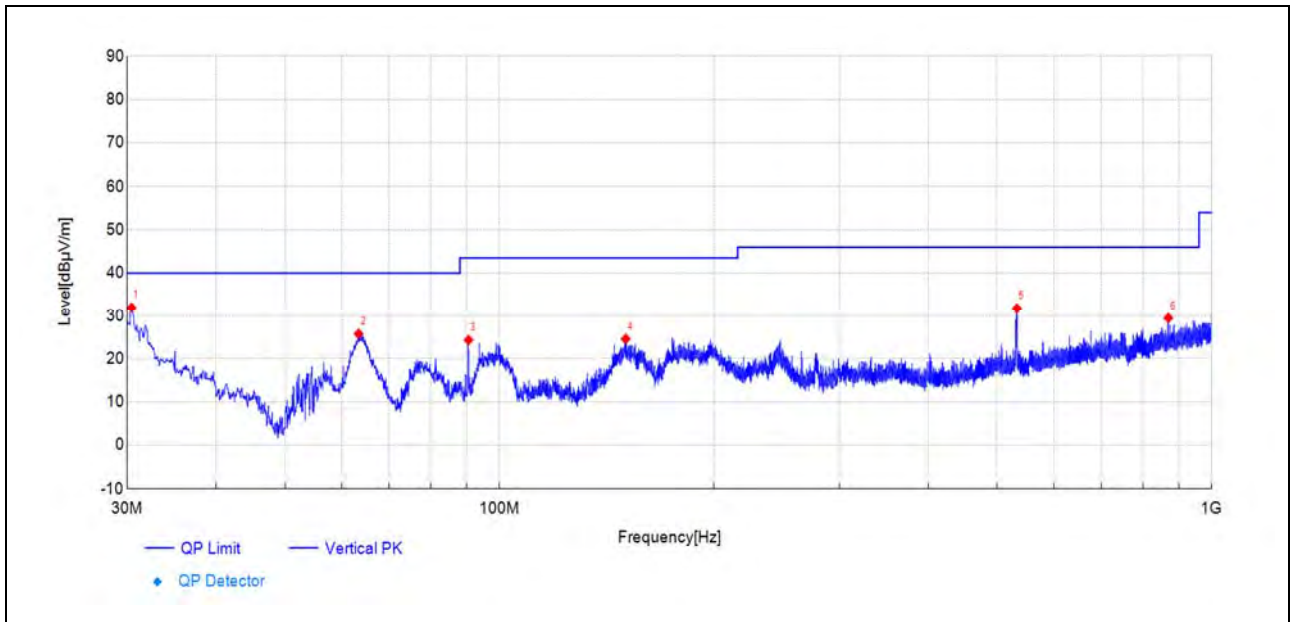
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
32.57	61.0	30.51	-30.470	40.00	9.49	150	104	PK	PASS
58.33	60.4	32.16	-28.240	40.00	7.84	150	77	PK	PASS
149.70	64.6	33.04	-31.550	43.50	10.46	150	70	PK	PASS
189.38	61.9	31.88	-29.990	43.50	11.62	150	144	PK	PASS
531.71	53.3	34.39	-18.950	46.00	11.61	150	104	PK	PASS
871.61	40.5	28.13	-12.360	46.00	17.87	150	131	PK	PASS



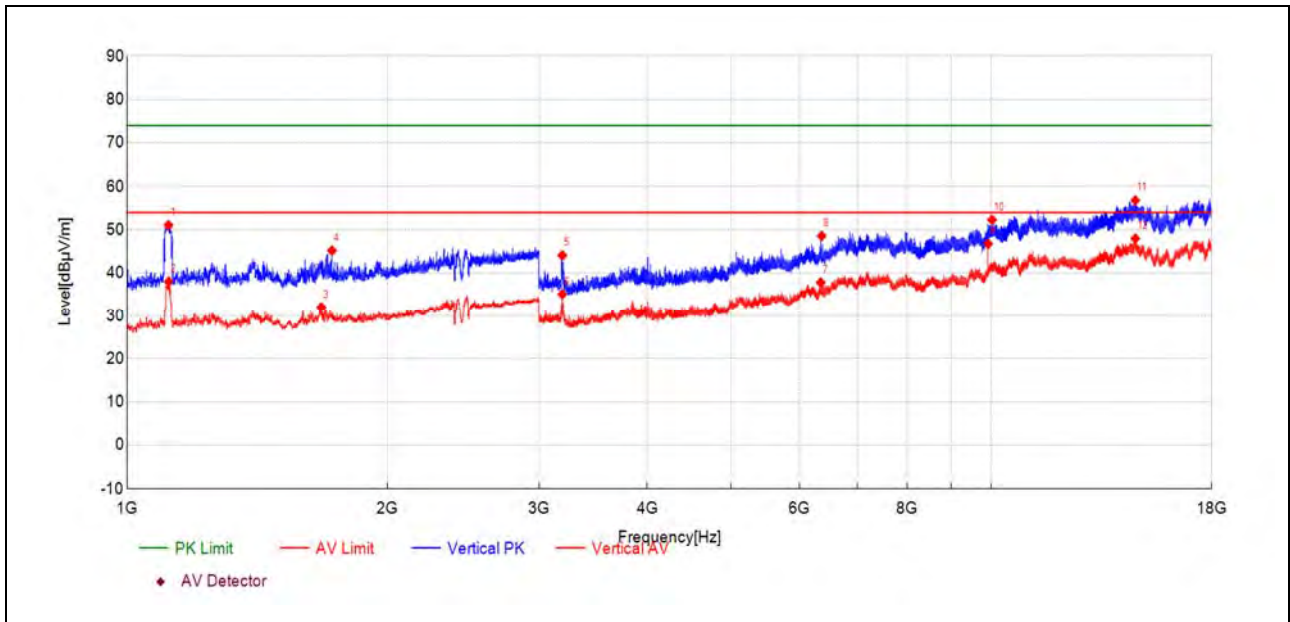
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1112.42	56.0	53.78	-2.250	74.00	20.22	150	157	PK	PASS
1112.82	44.3	42.10	-2.240	54.00	11.90	150	157	AV	PASS
2471.09	39.7	45.64	5.920	74.00	28.36	150	146	PK	PASS
2480.70	29.9	35.77	5.890	54.00	18.23	150	152	AV	PASS
3182.15	52.1	41.40	-10.690	74.00	32.60	150	49	PK	PASS
3198.86	44.1	33.25	-10.840	54.00	20.75	150	187	AV	PASS
5218.35	40.2	36.84	-3.350	54.00	17.16	150	64	AV	PASS
5219.21	47.8	44.42	-3.340	74.00	29.58	150	358	PK	PASS
9920.34	37.6	46.96	9.370	54.00	7.04	150	281	AV	PASS
9981.20	41.6	51.81	10.210	74.00	22.19	150	268	PK	PASS
14679.33	27.4	47.96	20.550	54.00	6.04	150	240	AV	PASS
14688.76	37.1	57.64	20.570	74.00	16.36	150	158	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
30.44	62.7	31.92	-30.780	40.00	8.08	150	188	PK	PASS
63.42	54.9	25.75	-29.100	40.00	14.25	150	351	PK	PASS
90.48	55.8	24.31	-31.470	43.50	19.19	150	161	PK	PASS
150.38	56.2	24.55	-31.690	43.50	18.95	150	351	PK	PASS
532.73	50.7	31.73	-19.000	46.00	14.27	150	215	PK	PASS
869.04	41.9	29.43	-12.430	46.00	16.57	150	120	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1116.82	53.3	51.07	-2.220	74.00	22.93	150	141	PK	PASS
1117.62	40.2	38.00	-2.200	54.00	16.00	150	158	AV	PASS
1678.54	31.9	32.03	0.110	54.00	21.97	150	141	AV	PASS
1726.55	44.8	45.22	0.460	74.00	28.78	150	146	PK	PASS
3189.43	54.9	44.10	-10.750	74.00	29.90	150	171	PK	PASS
3189.86	45.9	35.10	-10.760	54.00	18.90	150	158	AV	PASS
6349.38	36.6	37.82	1.190	54.00	16.18	150	171	AV	PASS
6365.67	47.5	48.60	1.140	74.00	25.40	150	24	PK	PASS
9920.34	37.4	46.75	9.370	54.00	7.25	150	253	AV	PASS
10024.06	41.7	52.33	10.610	74.00	21.67	150	308	PK	PASS
14681.48	36.3	56.84	20.550	74.00	17.16	150	118	PK	PASS
14684.48	27.4	48.00	20.560	54.00	6.00	150	77	AV	PASS

END OF REPORT