



REPORT No.: SZ24060101W01

TEST REPORT

APPLICANT : Anker Innovations Limited

PRODUCT NAME : eufy Smart Lock E31

MODEL NAME : T85F0

BRAND NAME : eufy

FCC ID : 2AOKB-T85F0

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2024-06-13

TEST DATE : 2024-06-25 to 2024-07-17

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REPORT No.: SZ24060101W01

Change History		
Version	Date	Reason for change
1.0	2024-07-29	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	N/A	Duty Cycle of Test Signal	Jun. 25, 2024	Li Zikai	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Jun. 25, 2024	Li Zikai	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Jun. 25, 2024	Li Zikai	PASS	No deviation
5	15.247(a)	Bandwidth	Jun. 25, 2024	Li Zikai	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Jun. 25, 2024	Li Zikai	PASS	No deviation
7	15.247(e)	Power Spectral Density	Jun. 25, 2024	Li Zikai	PASS	No deviation
8	15.207	Conducted Emission	Jun. 25 to 27, 2024	Wen Zhe	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Jul. 17, 2024	Yang Lian	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Jul. 17, 2024	Yang Lian	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



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	2024.02.19	2025.02.18
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	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	MY56400093	N9038A	KEYSIGHT	2024.01.25	2025.01.24
LISN	8127449	NSLK 8127	Schwarzbeck	2024.02.02	2025.02.01
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2024.05.30	2025.05.29
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	N/A	N/A

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
TS+ -[JS36-RSE]	Tonscend	V3.0.0.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**1.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	N/A	N/A
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	N/A	N/A
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09



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
Telephone	+86 755 36698555
Facsimile	+86 755 36698525
FCC Designation Number	CN1192
FCC Test Firm Registration Number	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	Anker Innovations Limited
Applicant Address	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Manufacturer	Anker Innovations Limited
Manufacturer Address	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong

2.2. Information of EUT

Product Name:	eufy Smart Lock E31	
Sample No.:	1#	
Hardware Version:	V1	
Software Version:	V1.0.0.6	
Equipment Type:	Bluetooth LE	
Bluetooth Version:	5.0	
Modulation Type:	GFSK	
Data Rate:	1Mbps, 2Mbps	
Operating Frequency Range:	2402MHz-2480MHz	
Antenna Type:	PCB Antenna	
Antenna Gain:	3.7dBi	
Accessory Information:	Battery	
	Brand Name:	fuji
	Model No.:	T8520S
	Serial No.:	N/A
	Capacity:	10000mAh
	Rated Voltage:	3.6V
	Charge Limit:	4.2V
	Manufacturer:	FUJI ELECTRONICS (SHENZHEN) CO., LTD.

Note 1: We use the dedicated software to control the EUT continuous transmission.

Note 2: 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

Test mode is used to control the EUT under the maximum power level during test.

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

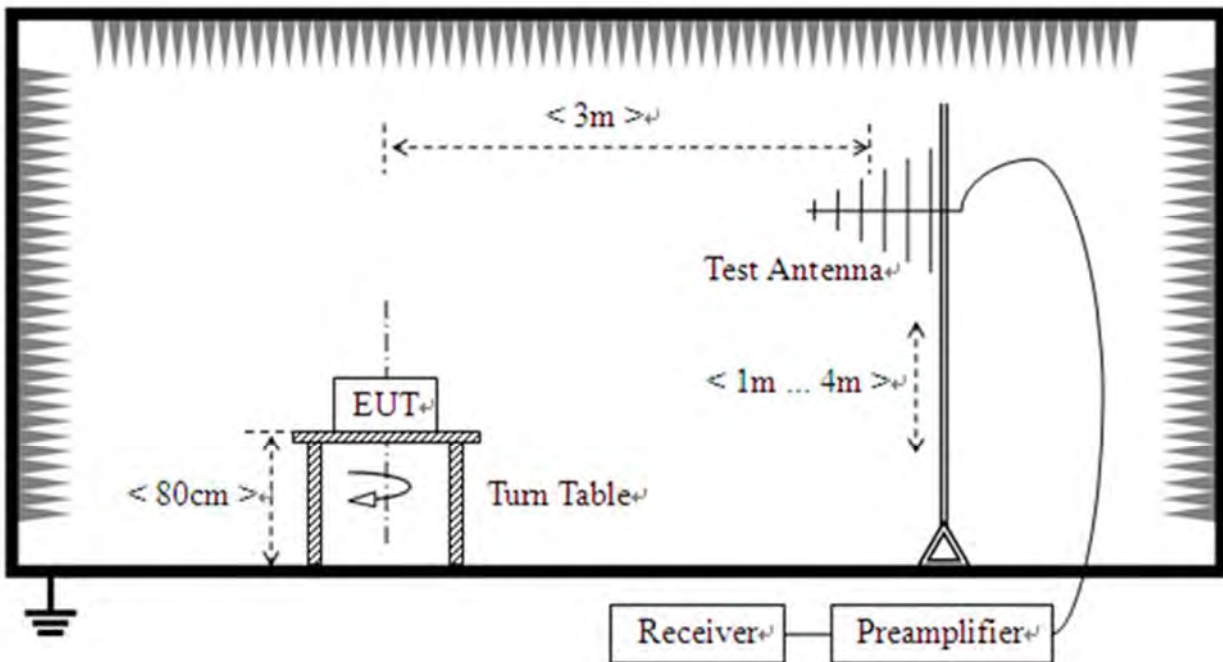


2.6.3.Radiation Measurement

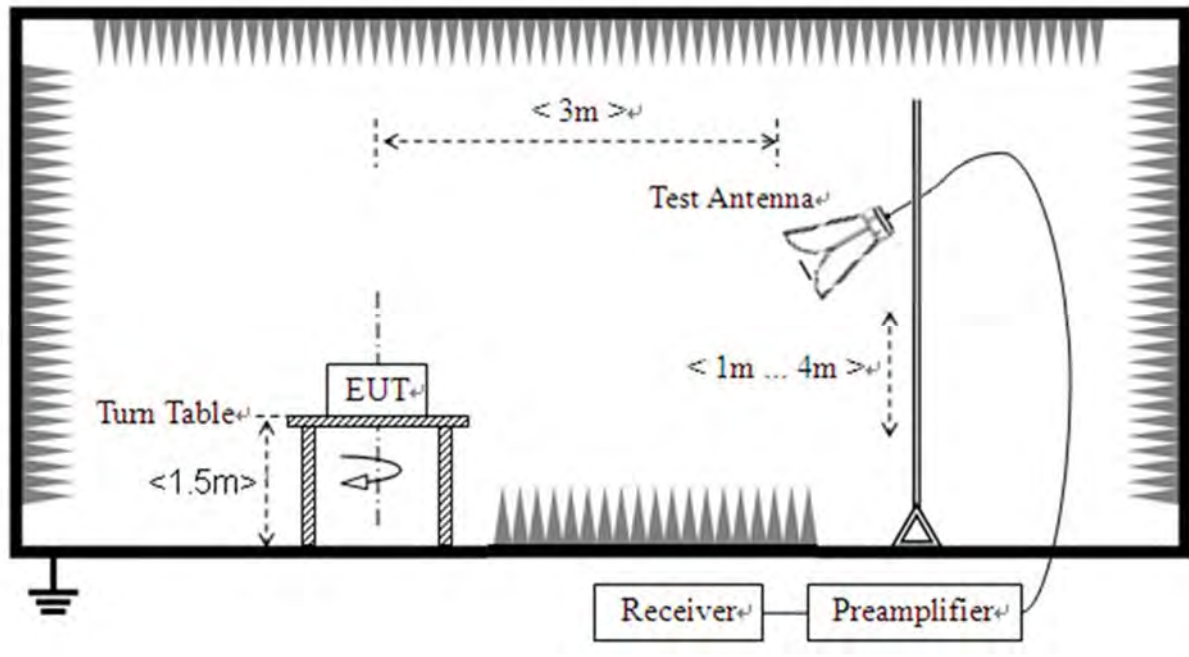
1) For radiated emissions from 9kHz to 30MHz



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	☐ 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: 2013.

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

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.



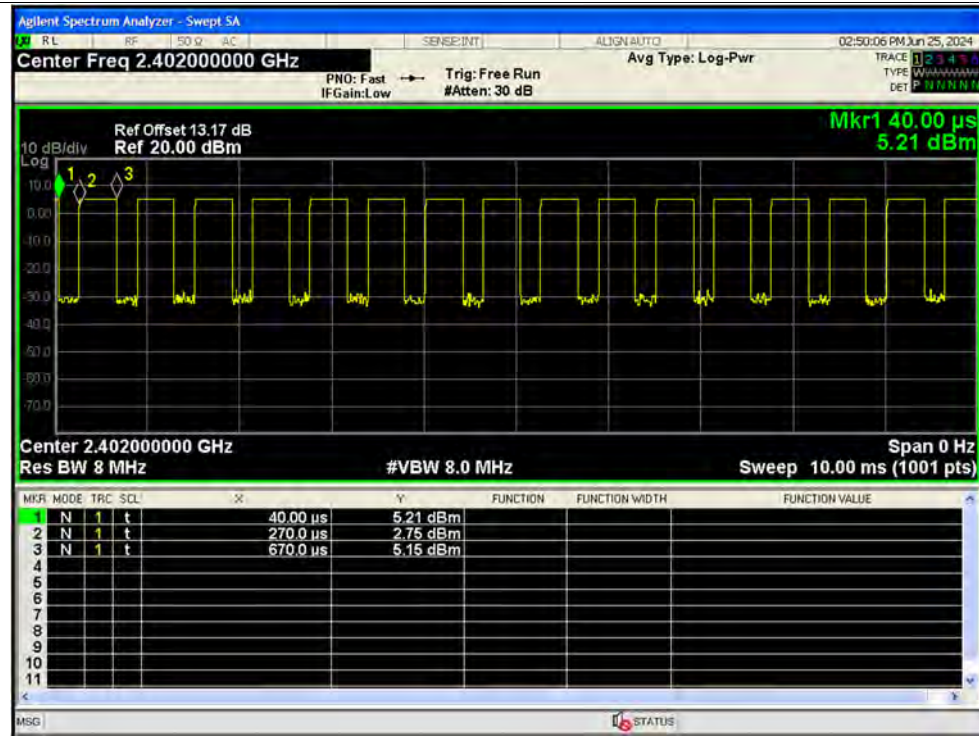
Annex A Test Data and Result

A.1. Duty Cycle of Test Signal

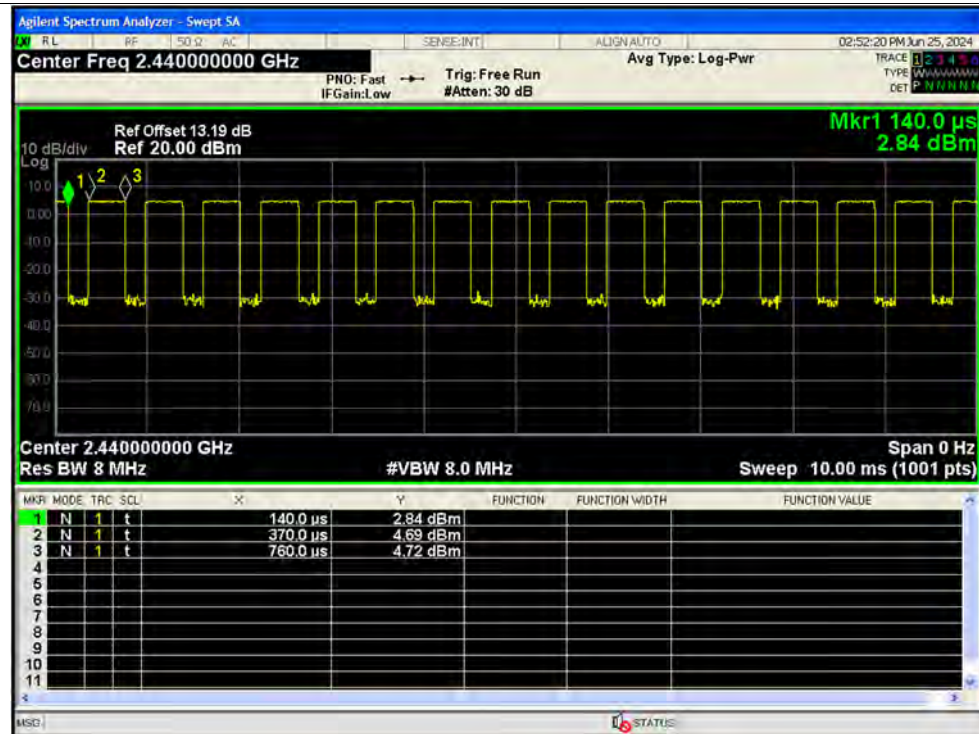
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	63.49	1.97	2.5
NVNT	BLE 1M	2440	Ant1	62.9	2.01	2.56
NVNT	BLE 1M	2480	Ant1	62.9	2.01	2.56
NVNT	BLE 2M	2402	Ant1	33.33	4.77	4.76
NVNT	BLE 2M	2440	Ant1	33.33	4.77	4.76
NVNT	BLE 2M	2480	Ant1	33.33	4.77	4.76

Test Graphs

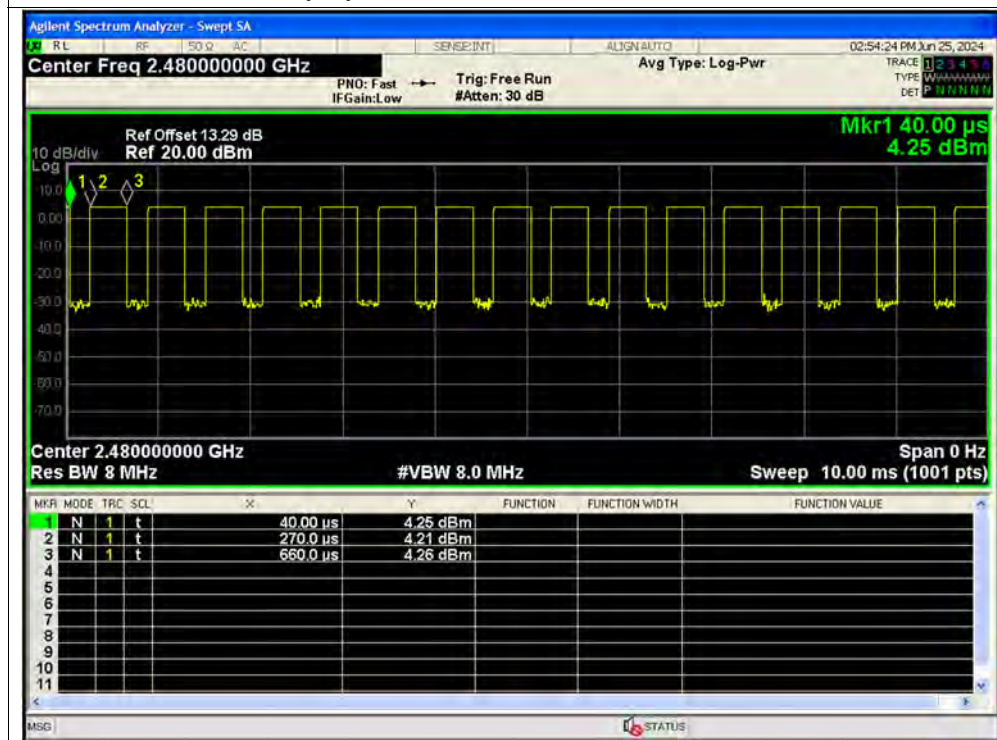
Duty Cycle NVNT BLE 1M 2402MHz Ant1



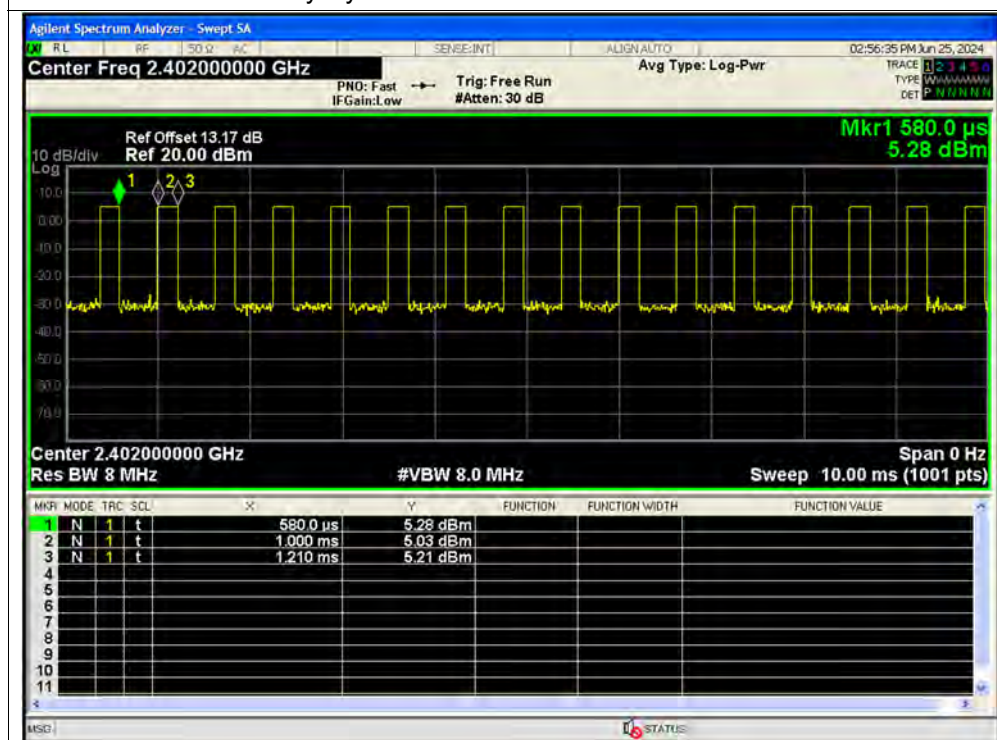
Duty Cycle NVNT BLE 1M 2440MHz Ant1



Duty Cycle NVNT BLE 1M 2480MHz Ant1

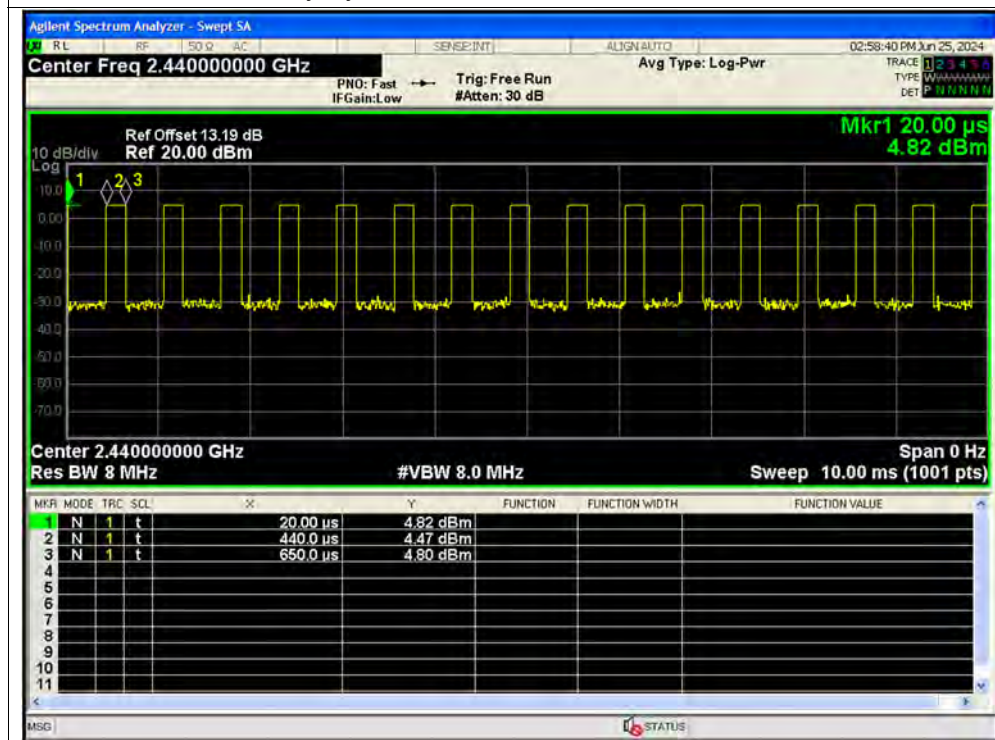


Duty Cycle NVNT BLE 2M 2402MHz Ant1

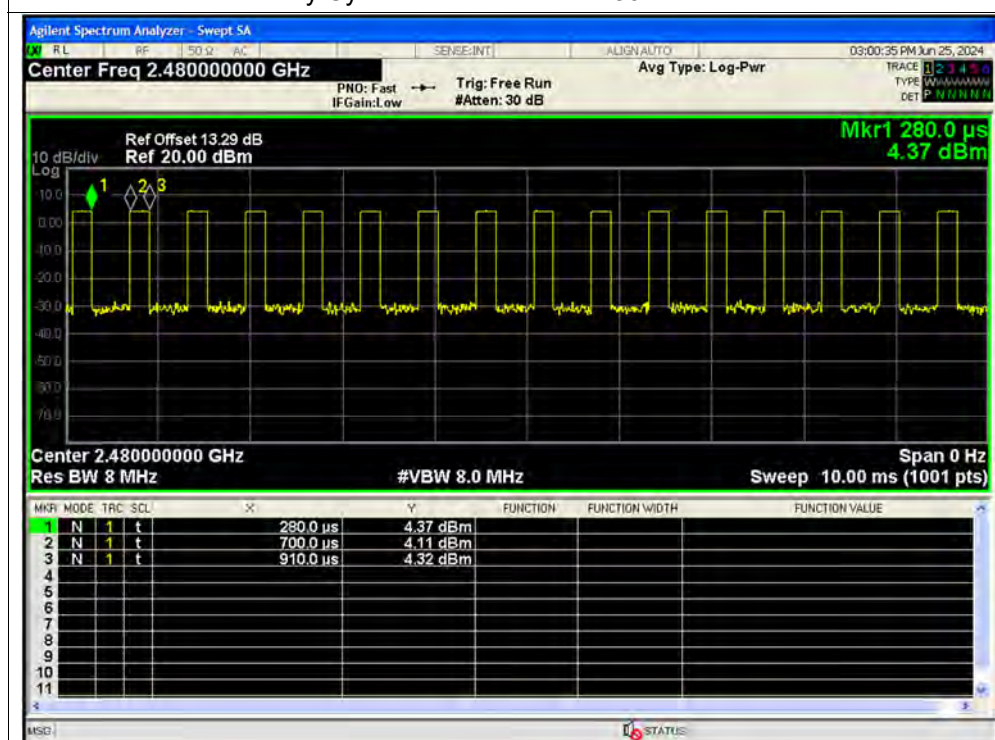




Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



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

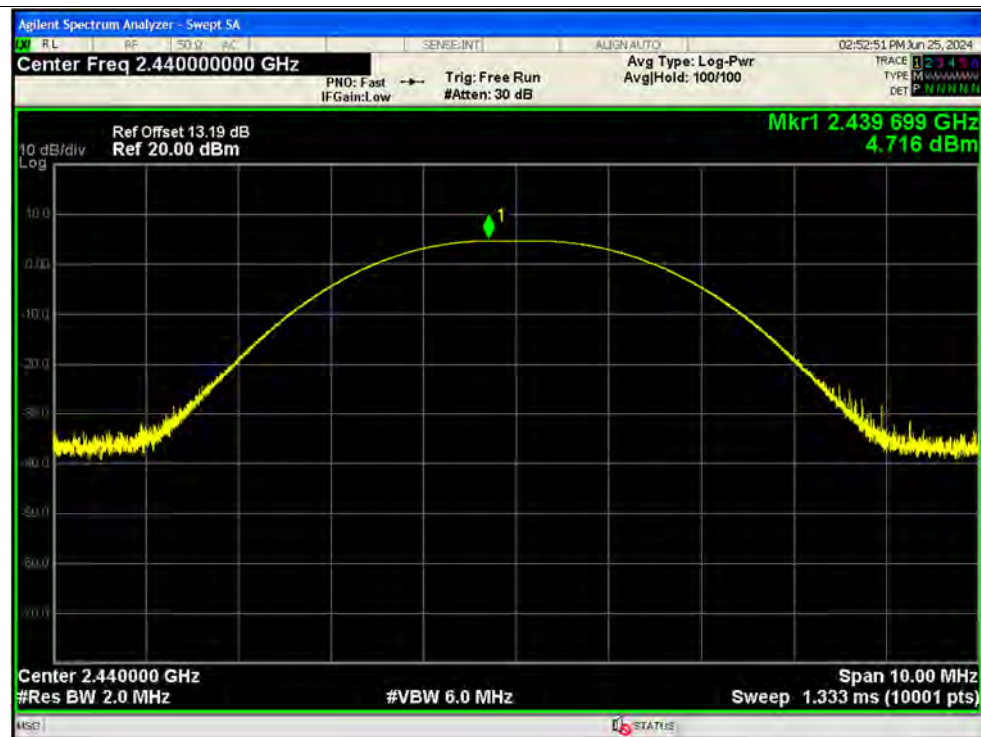
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	5.15	0	5.15	0.00327	30	Pass
NVNT	BLE 1M	2440	Ant1	4.72	0	4.72	0.00296	30	Pass
NVNT	BLE 1M	2480	Ant1	4.2	0	4.2	0.00263	30	Pass
NVNT	BLE 2M	2402	Ant1	5.18	0	5.18	0.0033	30	Pass
NVNT	BLE 2M	2440	Ant1	4.74	0	4.74	0.00298	30	Pass
NVNT	BLE 2M	2480	Ant1	4.23	0	4.23	0.00265	30	Pass

Test Graphs

Peak Power NVNT BLE 1M 2402MHz Ant1



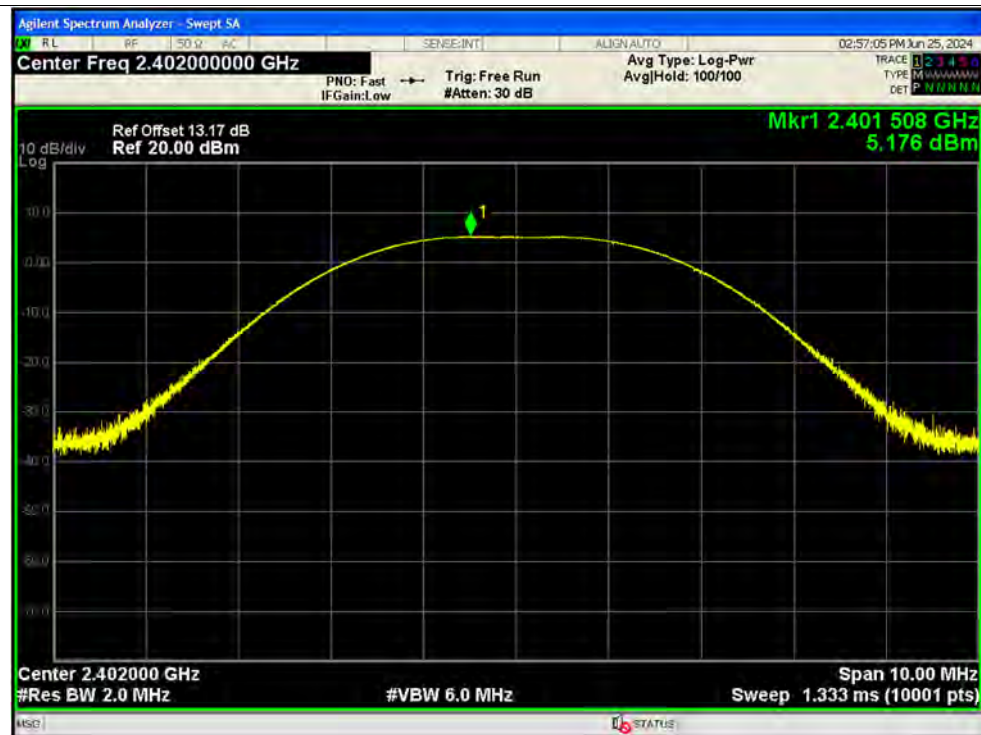
Peak Power NVNT BLE 1M 2440MHz Ant1



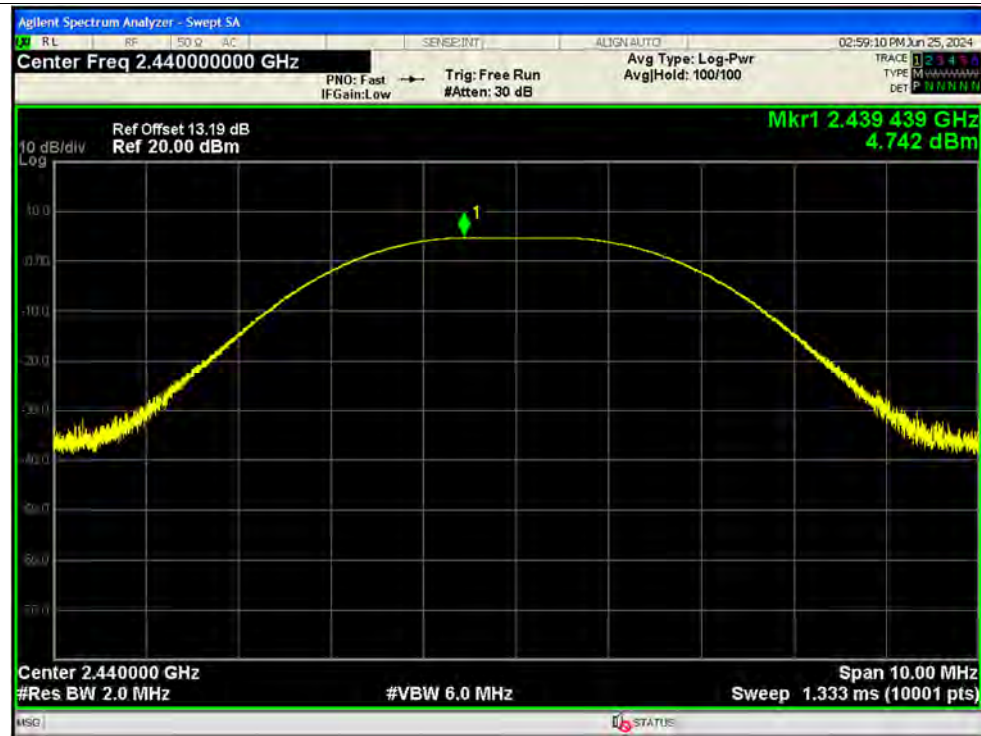
Peak Power NVNT BLE 1M 2480MHz Ant1



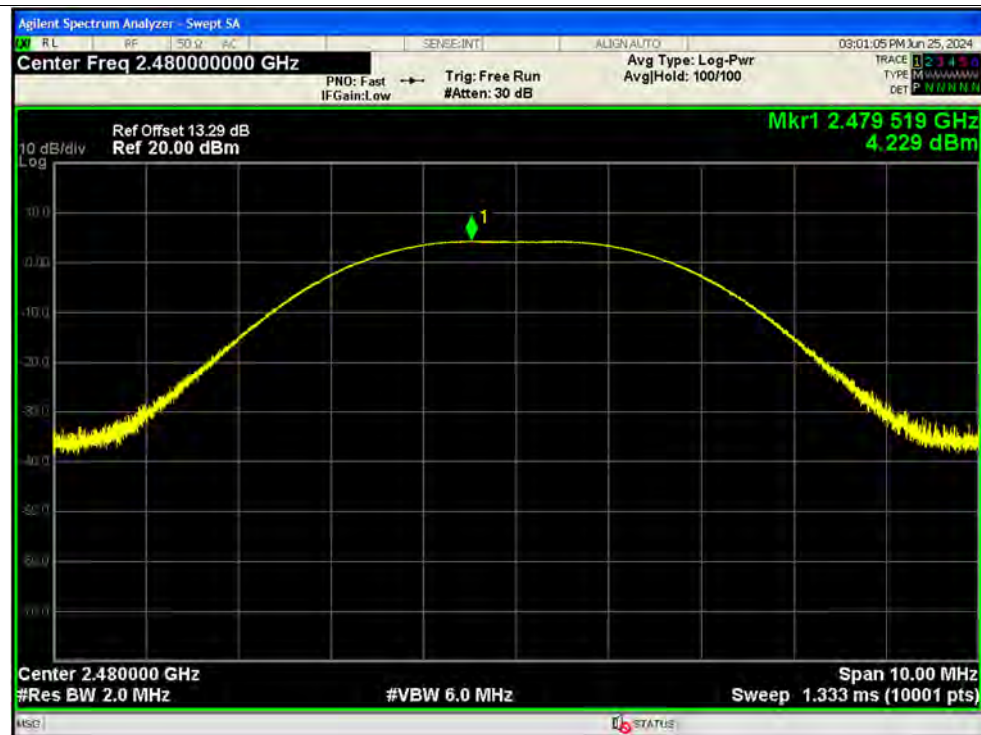
Peak Power NVNT BLE 2M 2402MHz Ant1



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	2.92	1.97	4.89	0.00308	30	Pass
NVNT	BLE 1M	2440	Ant1	2.58	2.01	4.59	0.00288	30	Pass
NVNT	BLE 1M	2480	Ant1	1.96	2.01	3.97	0.00249	30	Pass
NVNT	BLE 2M	2402	Ant1	0.18	4.77	4.95	0.00313	30	Pass
NVNT	BLE 2M	2440	Ant1	-0.2	4.77	4.57	0.00286	30	Pass
NVNT	BLE 2M	2480	Ant1	-0.67	4.77	4.1	0.00257	30	Pass

Test Graphs

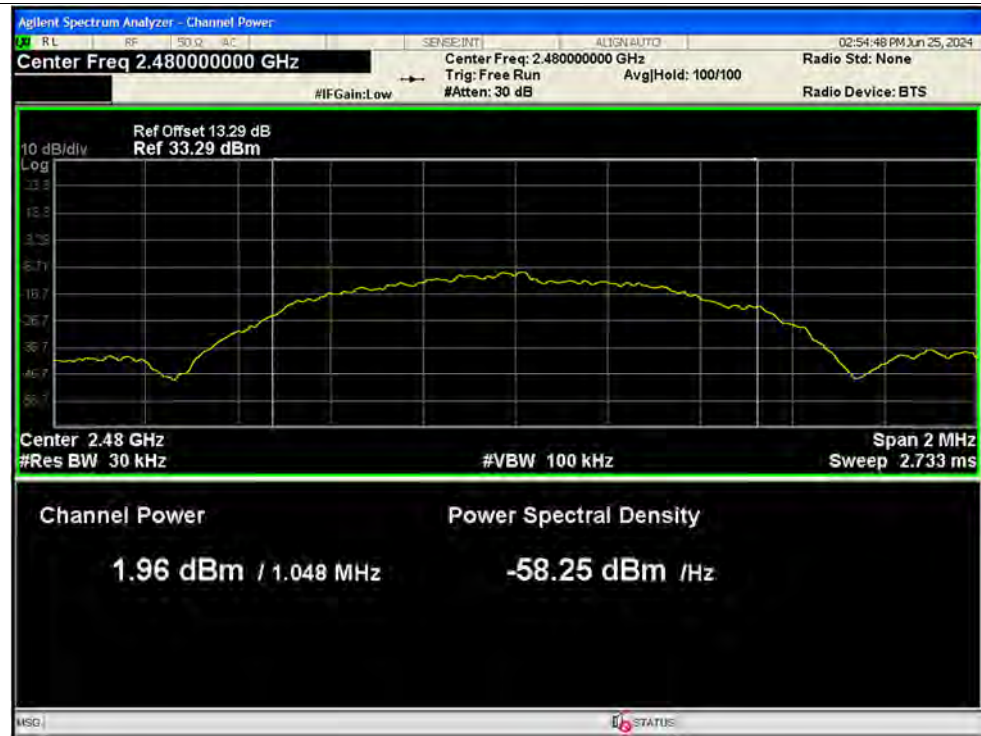
Average Power NVNT BLE 1M 2402MHz Ant1



Average Power NVNT BLE 1M 2440MHz Ant1



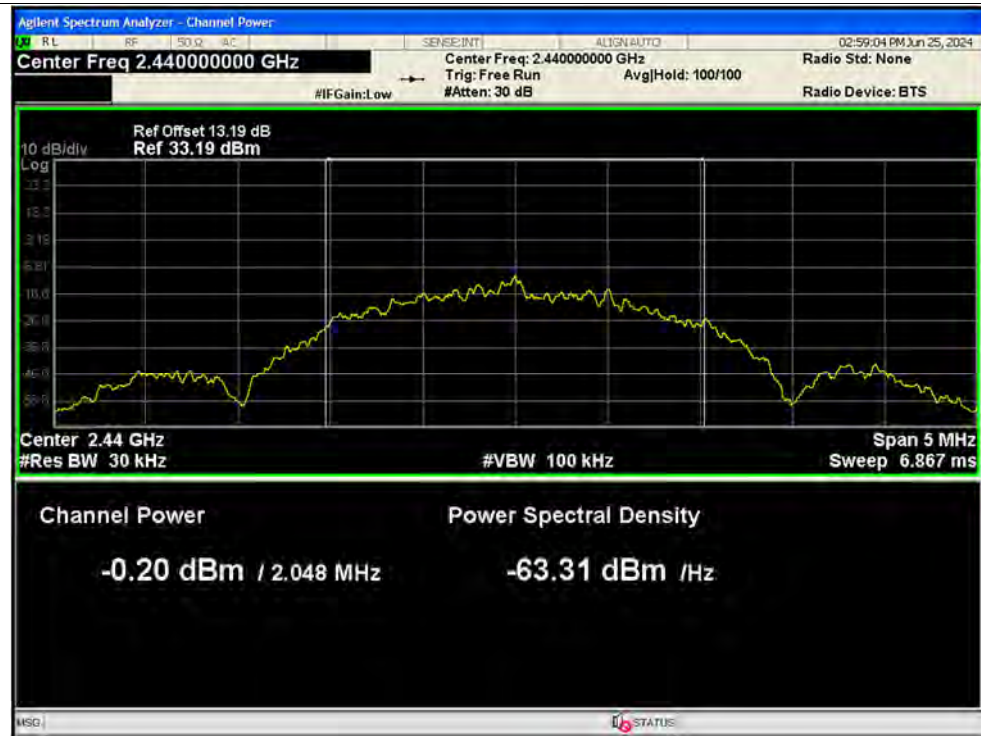
Average Power NVNT BLE 1M 2480MHz Ant1



Average Power NVNT BLE 2M 2402MHz Ant1



Average Power NVNT BLE 2M 2440MHz Ant1



Average Power NVNT BLE 2M 2480MHz Ant1

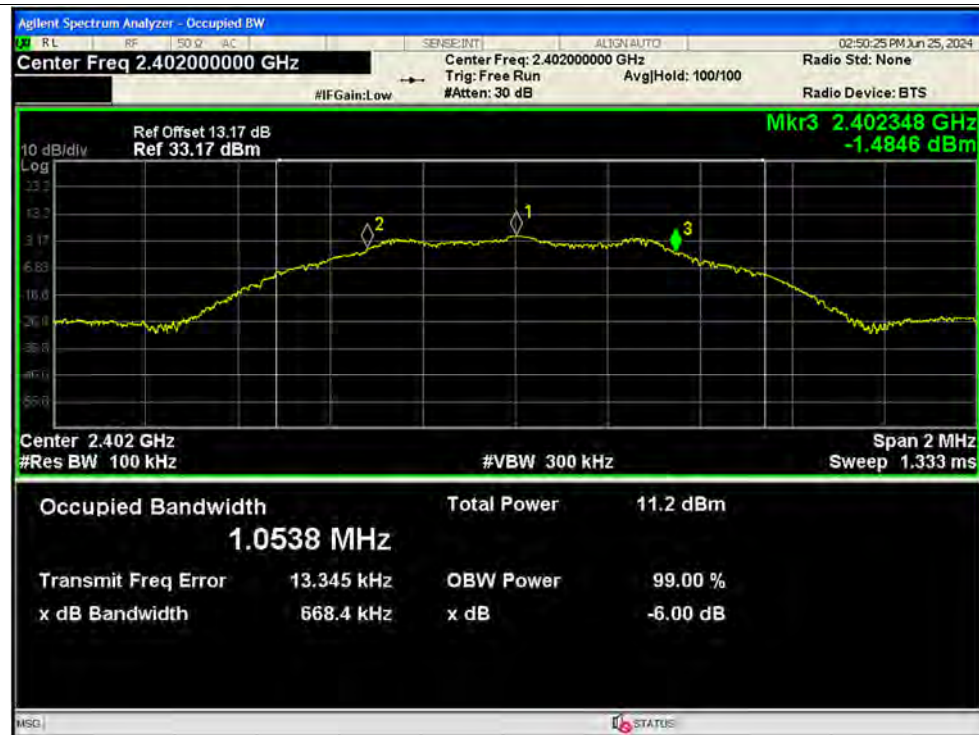


**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.668	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.669	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.673	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.124	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.108	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.077	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





REPORT No.: SZ24060101W01

A.5. Conducted Spurious Emissions

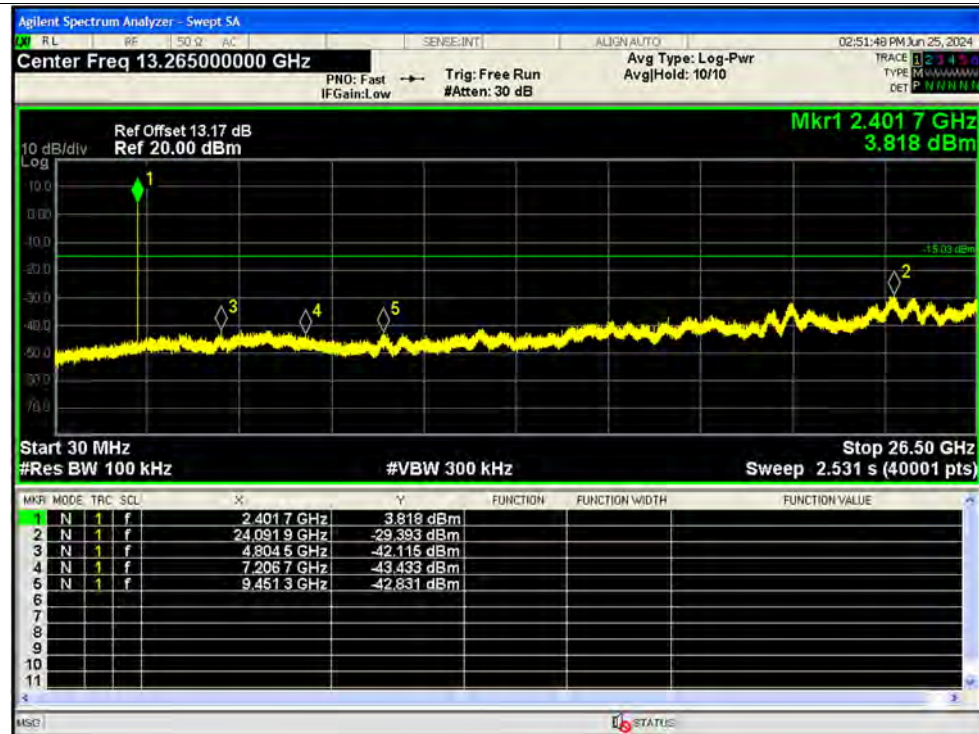
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-34.36	-20	Pass
NVNT	BLE 1M	2440	Ant1	-32.39	-20	Pass
NVNT	BLE 1M	2480	Ant1	-32.81	-20	Pass
NVNT	BLE 2M	2402	Ant1	-33.92	-20	Pass
NVNT	BLE 2M	2440	Ant1	-33.51	-20	Pass
NVNT	BLE 2M	2480	Ant1	-32.39	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



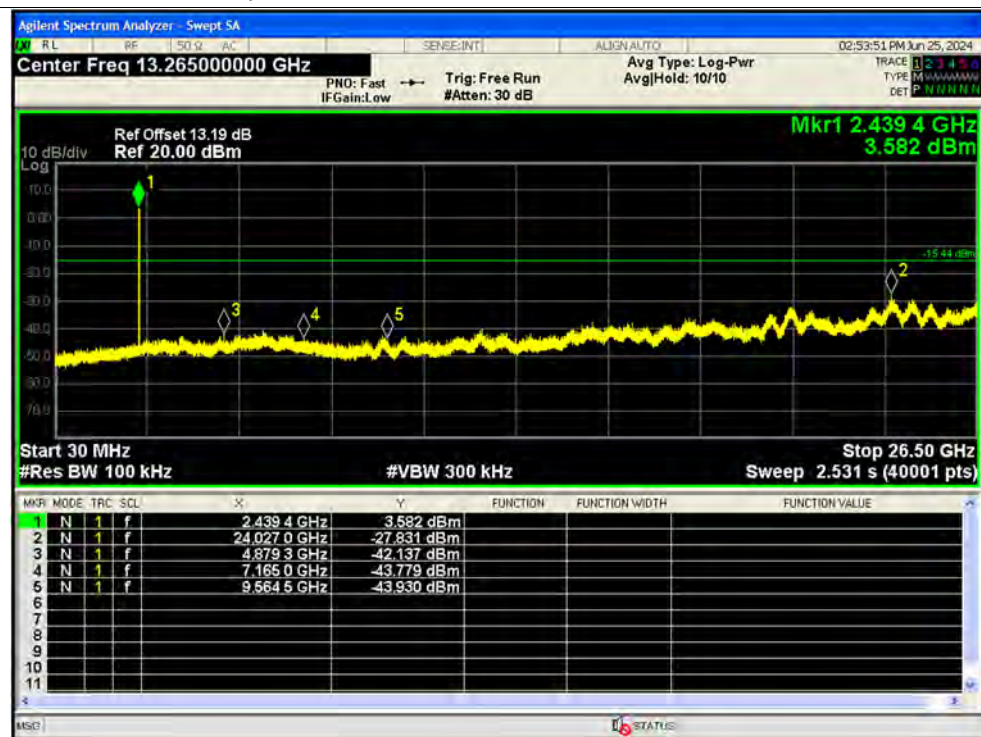
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



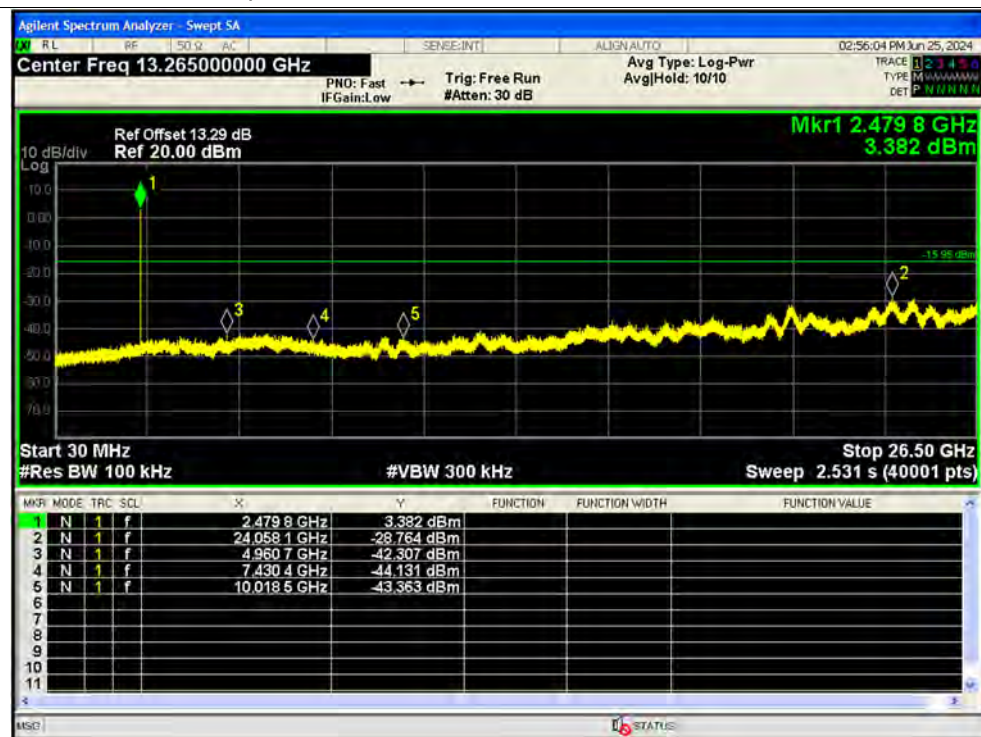
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



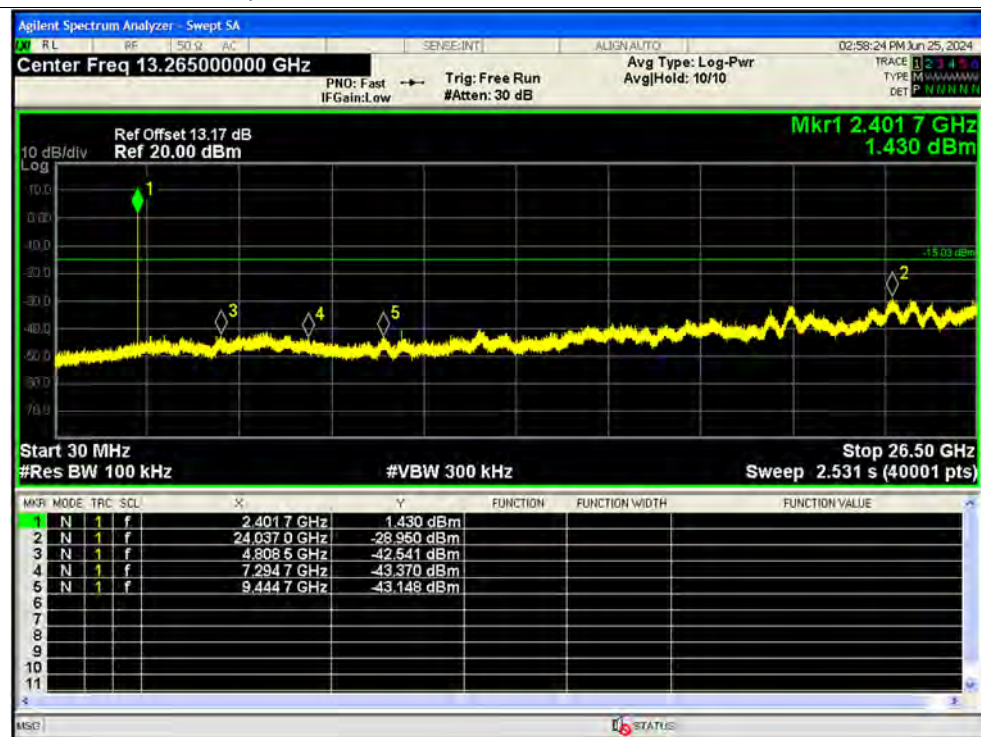
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



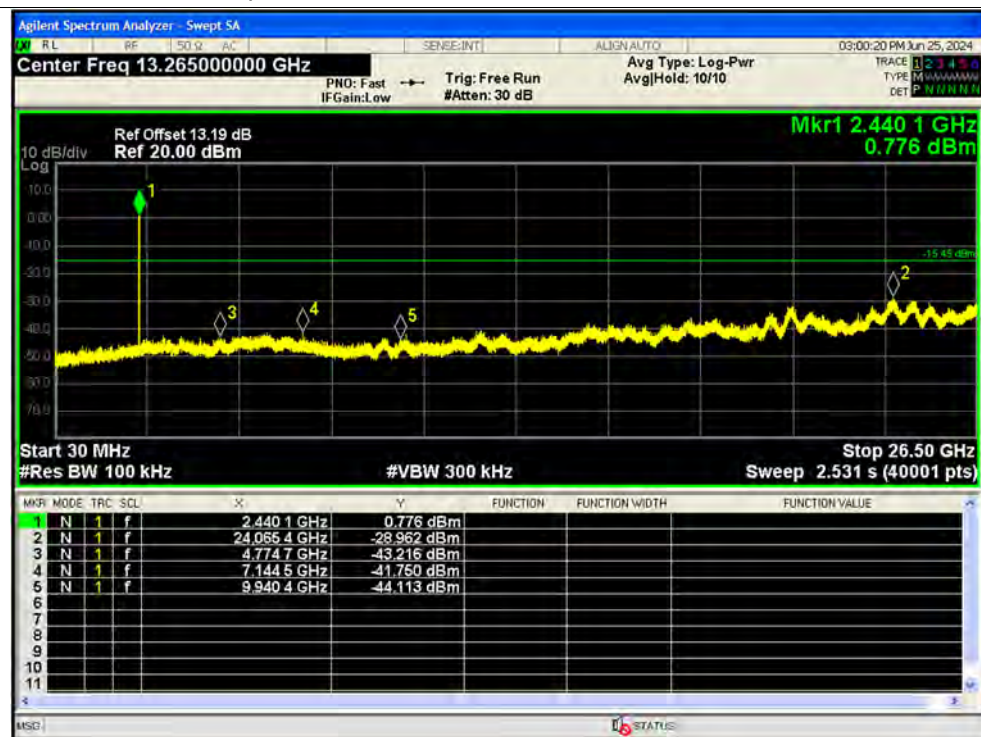
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



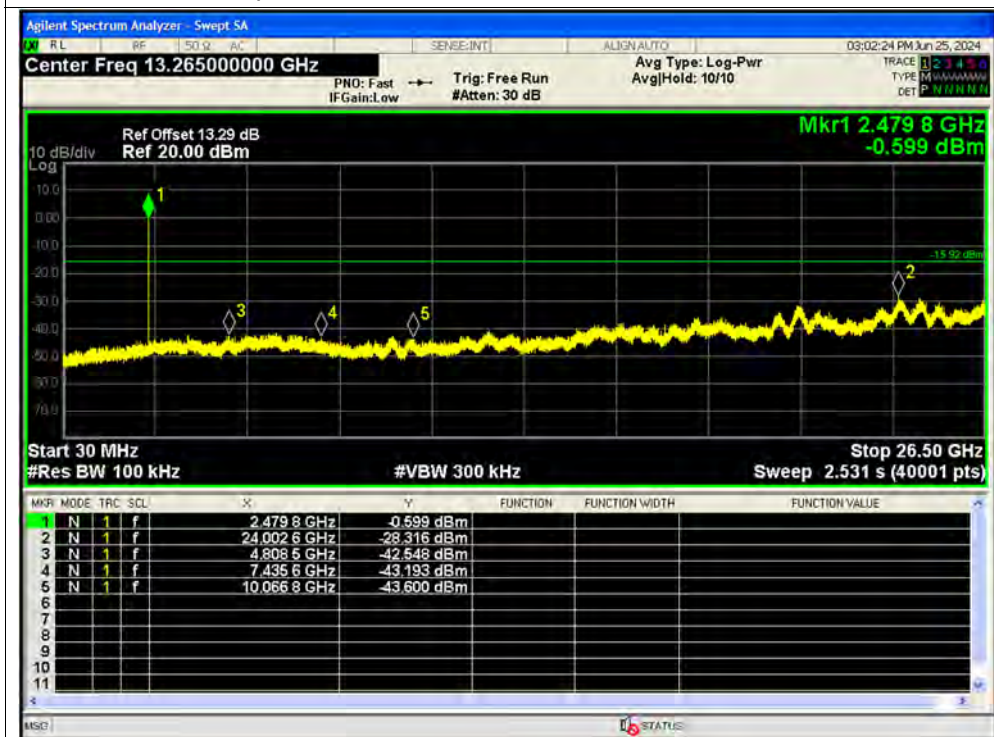
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission





REPORT No.: SZ24060101W01

A.6. Band Edge

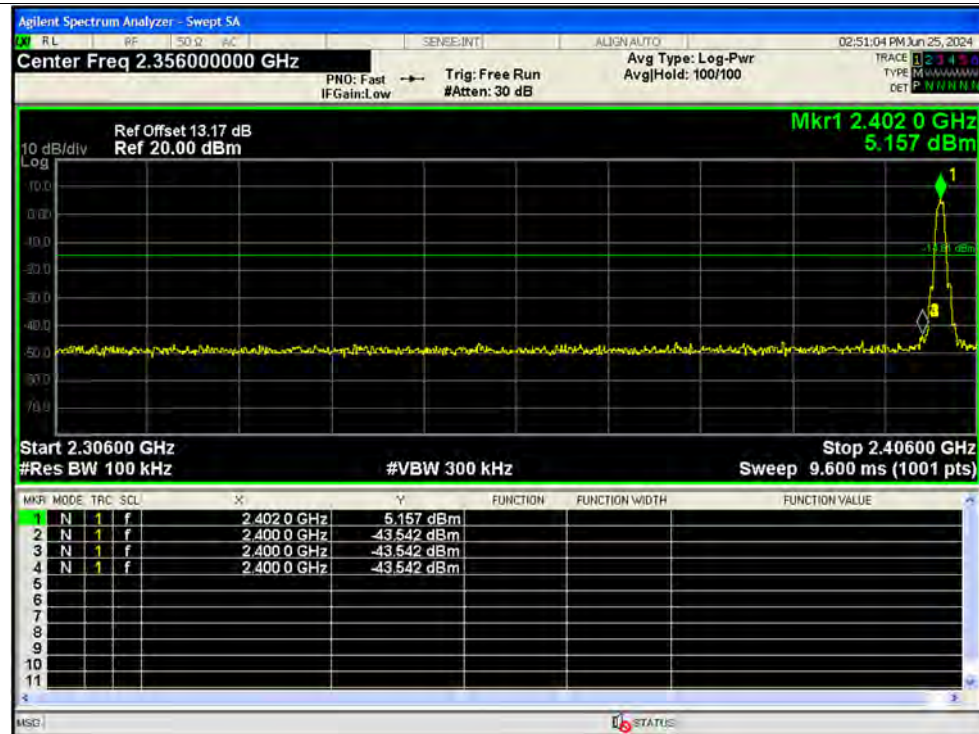
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-48.73	-20	Pass
NVNT	BLE 1M	2480	Ant1	-49.54	-20	Pass
NVNT	BLE 2M	2402	Ant1	-32.27	-20	Pass
NVNT	BLE 2M	2480	Ant1	-49.78	-20	Pass

Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



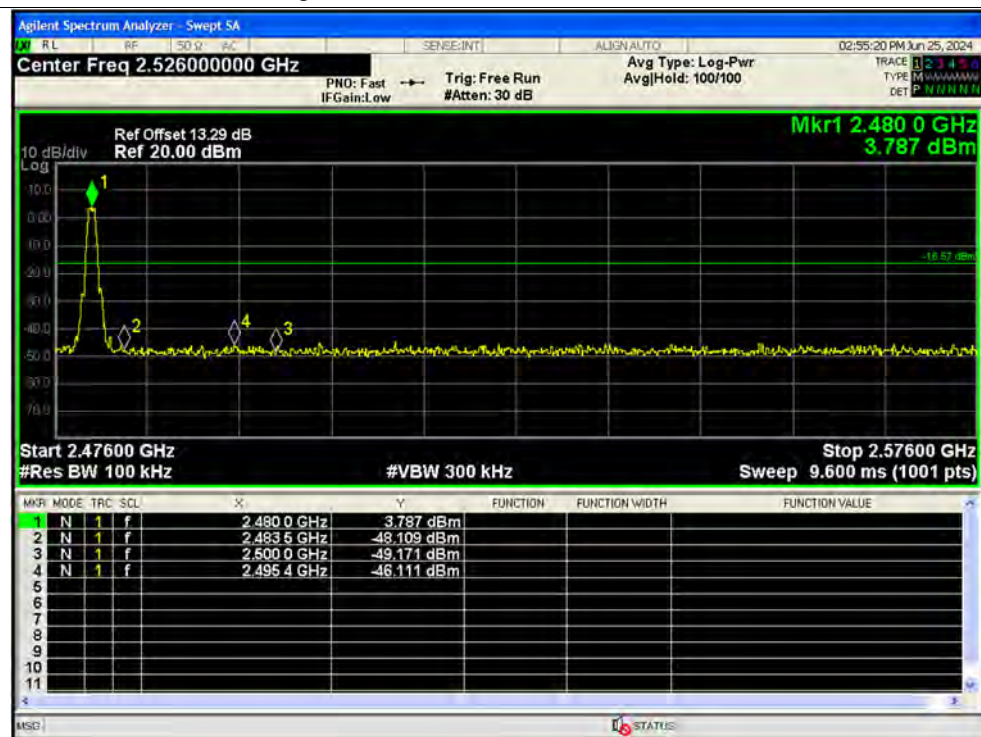
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



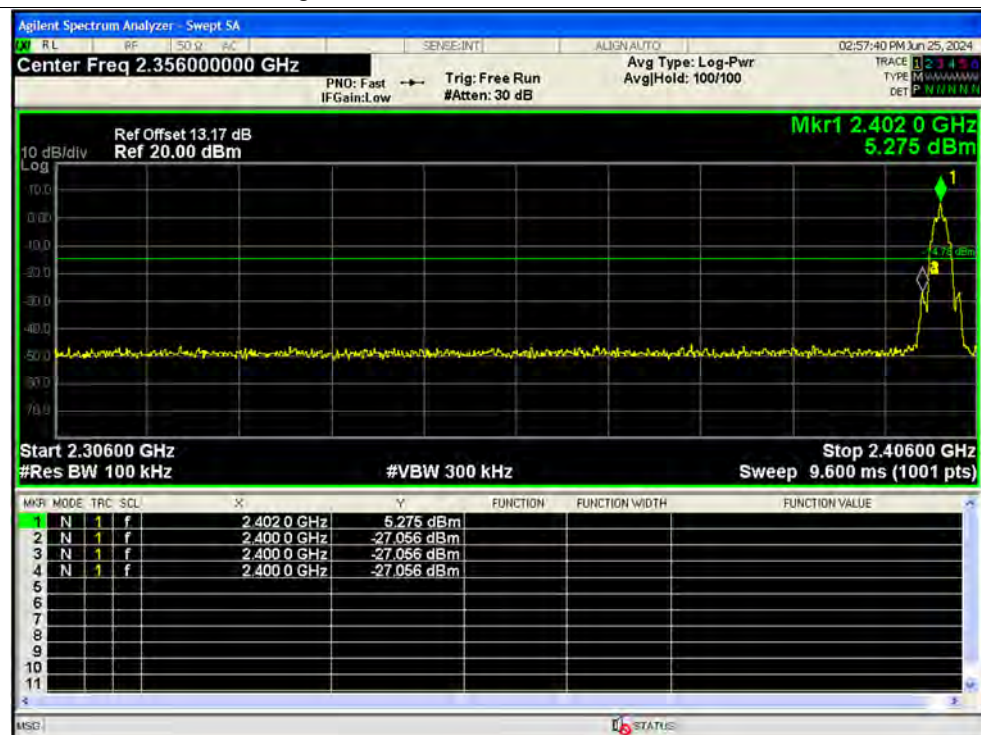
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



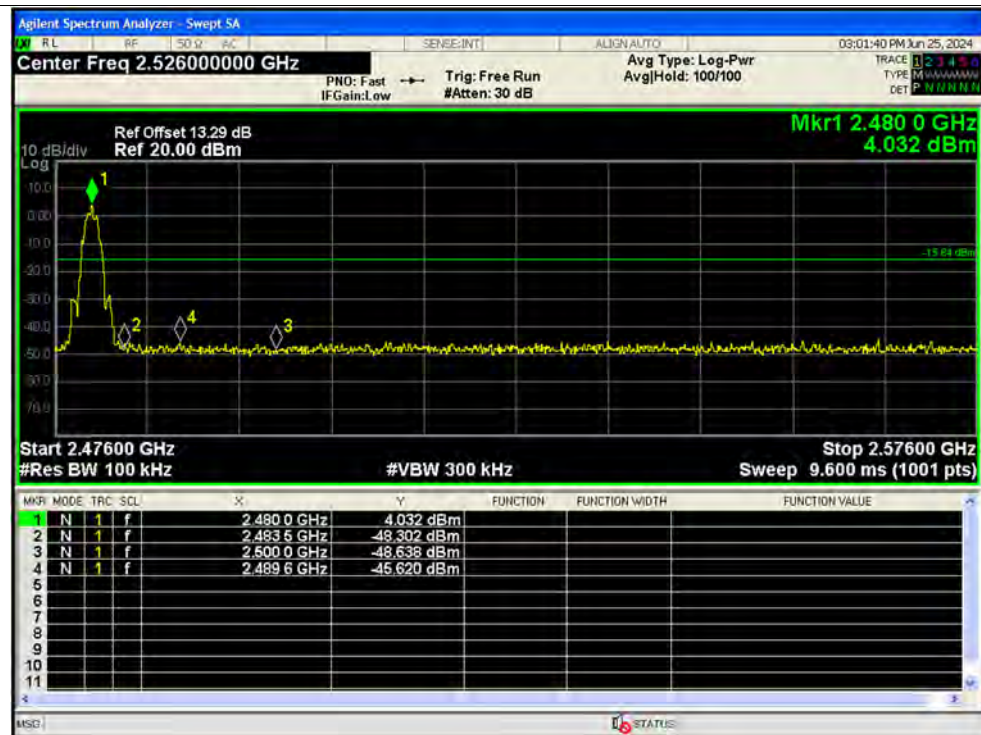
Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission

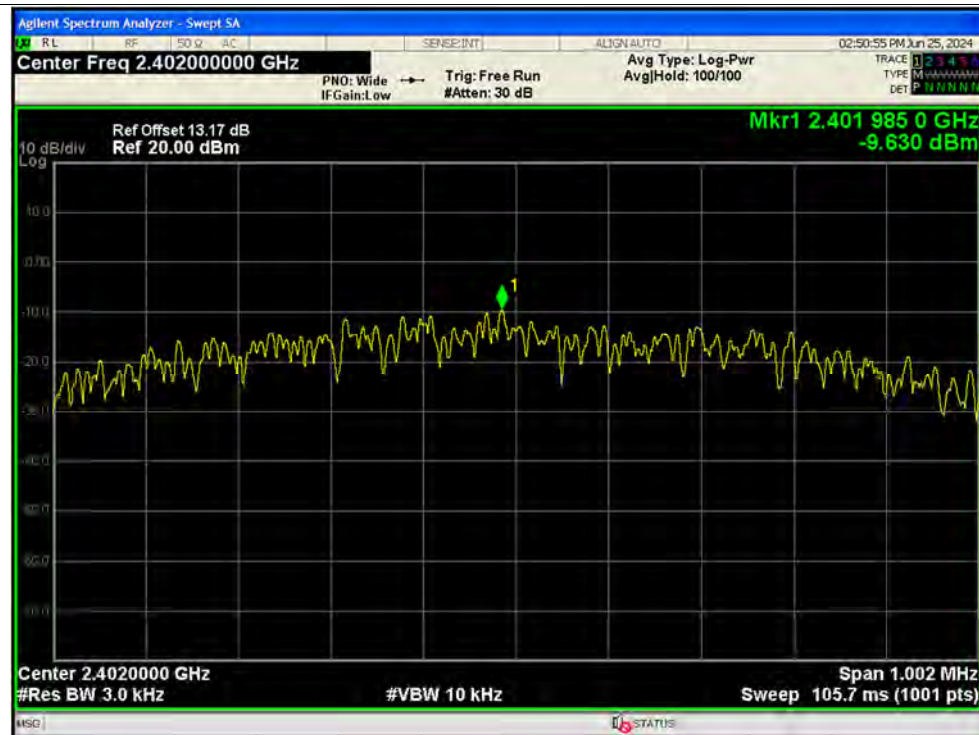


**A.7. Power Spectral Density**

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	-9.63	0	-9.63	8	Pass
NVNT	BLE 1M	2440	Ant1	-10.29	0	-10.29	8	Pass
NVNT	BLE 1M	2480	Ant1	-11.11	0	-11.11	8	Pass
NVNT	BLE 2M	2402	Ant1	-12.23	0	-12.23	8	Pass
NVNT	BLE 2M	2440	Ant1	-12.76	0	-12.76	8	Pass
NVNT	BLE 2M	2480	Ant1	-13.53	0	-13.53	8	Pass

Test Graphs

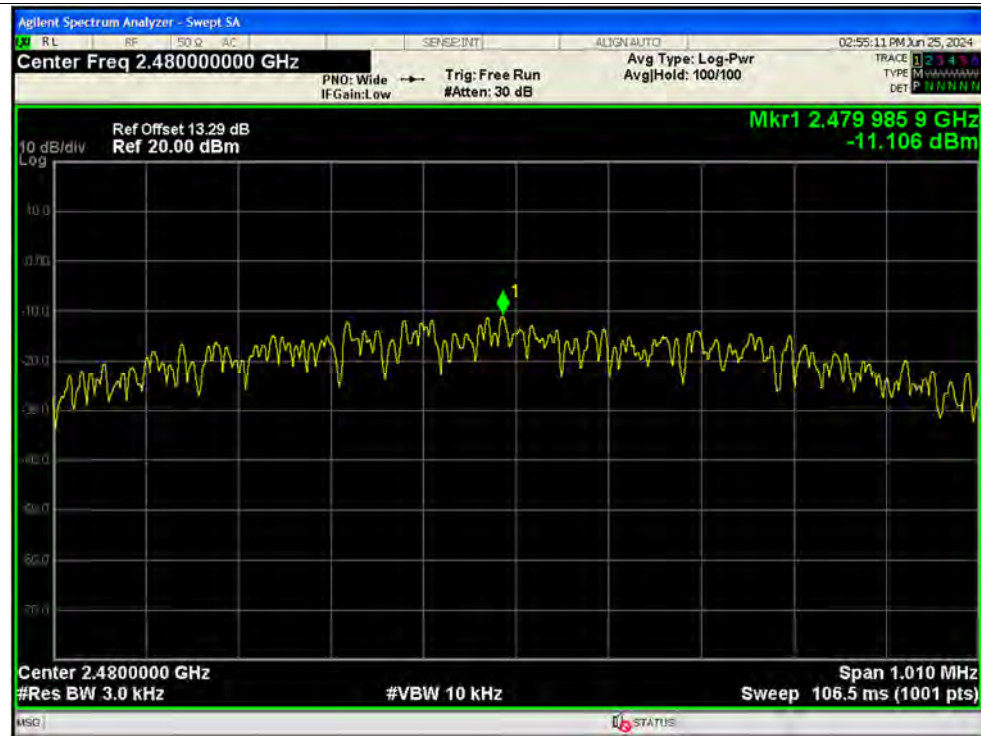
PSD NVNT BLE 1M 2402MHz Ant1



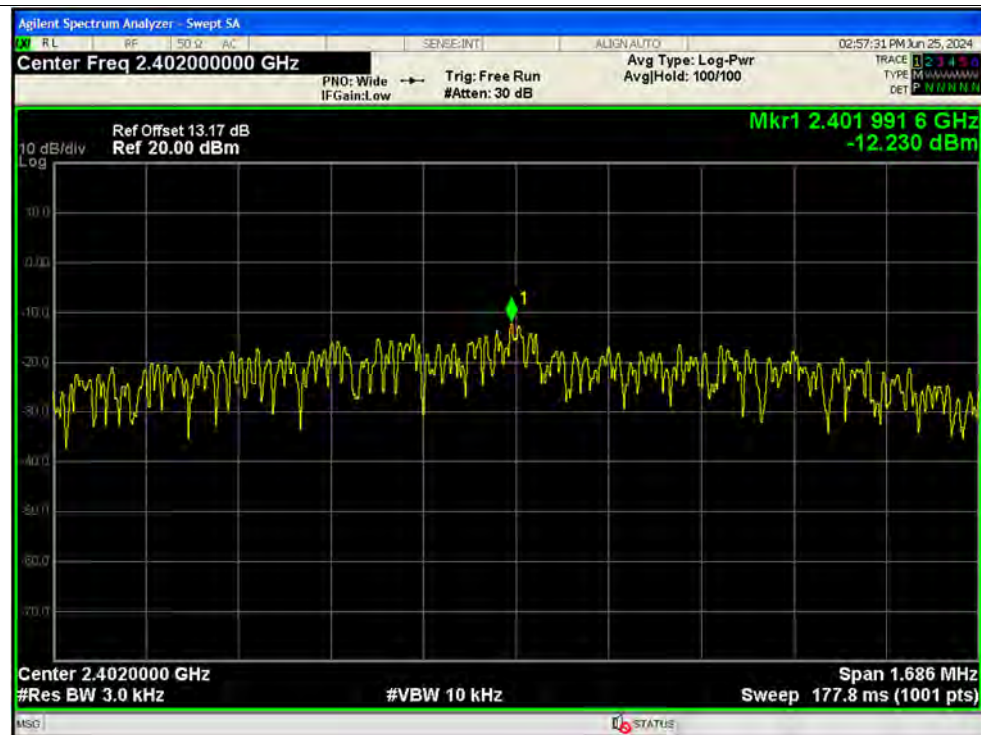
PSD NVNT BLE 1M 2440MHz Ant1



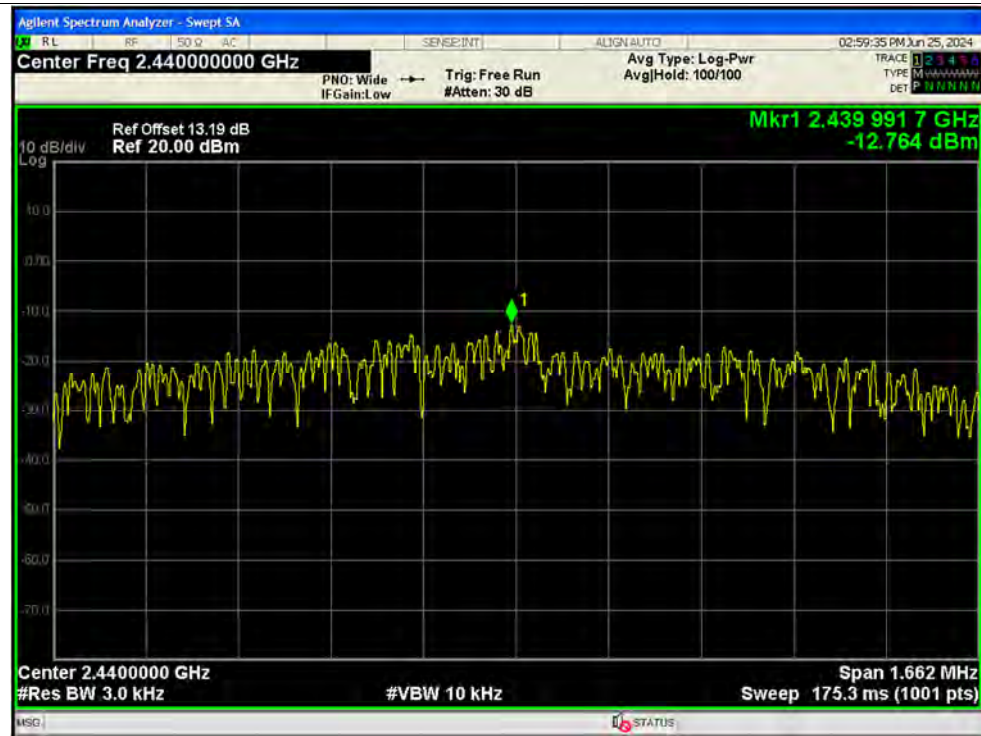
PSD NVNT BLE 1M 2480MHz Ant1



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 + Adapter + USB cable + PC + BT TX

Test voltage: AC 120V/60Hz

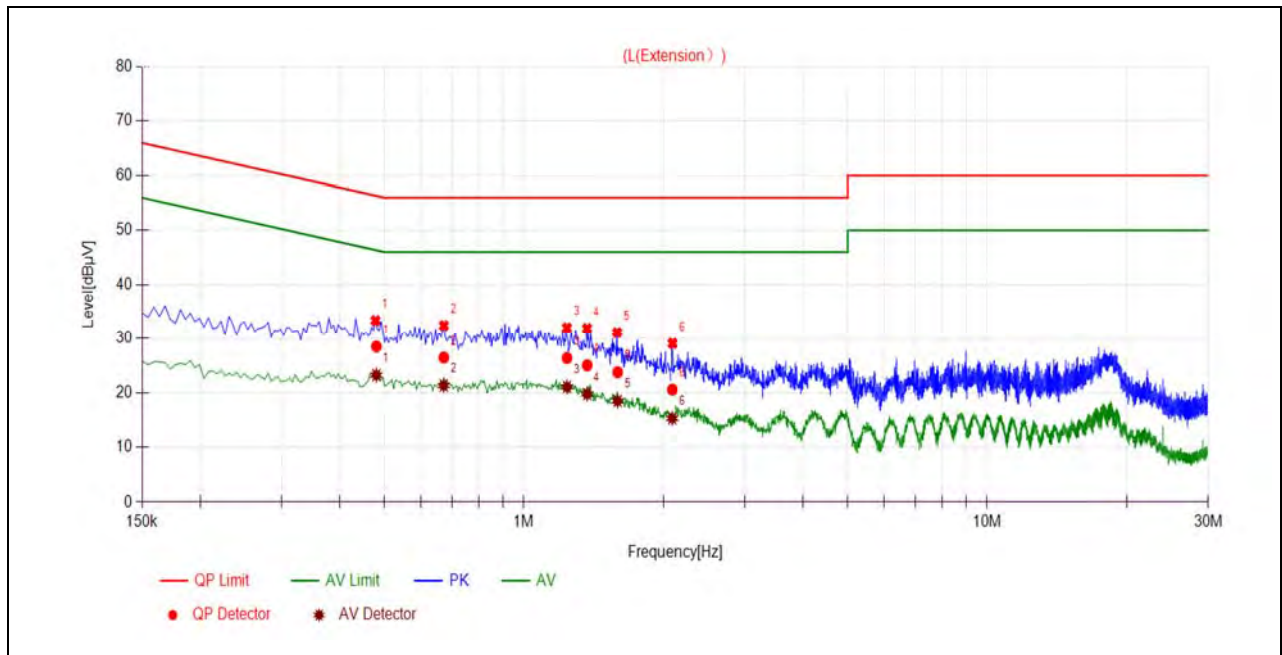
The measurement results are obtained as below:

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

U_R : Receiver Reading

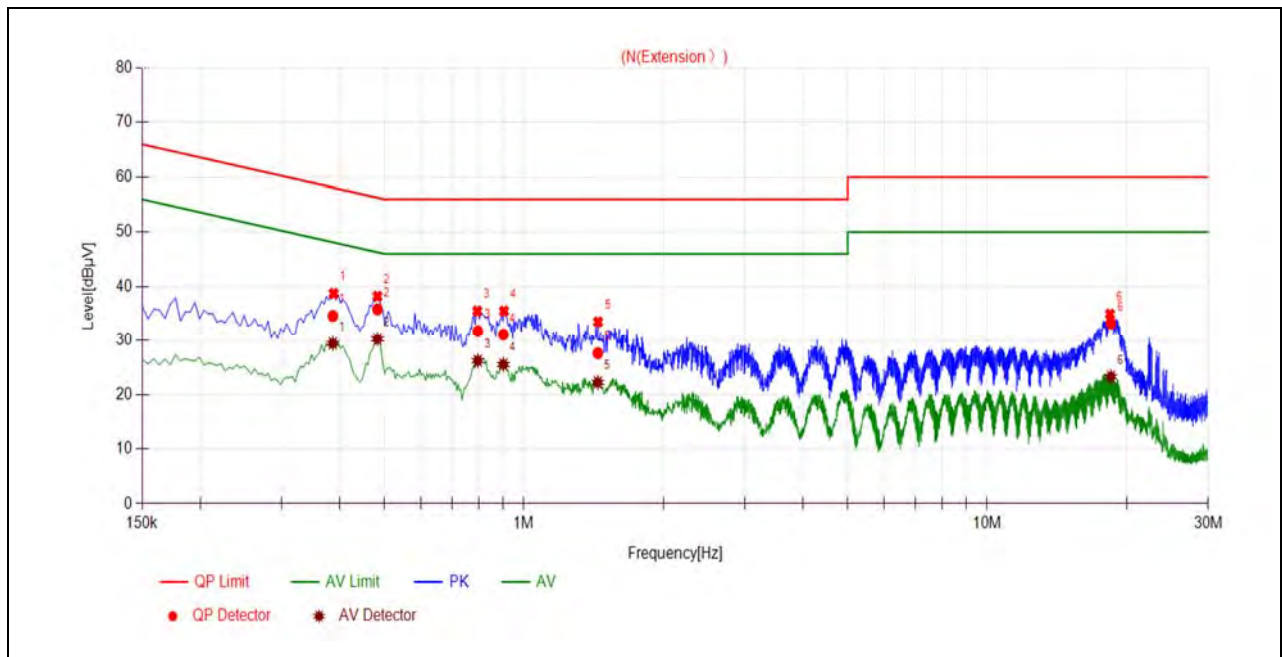
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.4804	28.49	23.21	56.33	46.33	Line	PASS
2	0.6716	26.45	21.30	56.00	46.00		PASS
3	1.2390	26.36	21.05	56.00	46.00		PASS
4	1.3700	25.01	19.72	56.00	46.00		PASS
5	1.5940	23.74	18.46	56.00	46.00		PASS
6	2.0906	20.54	15.28	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.3870	34.59	29.43	58.13	48.13	Neutral	PASS
2	0.4831	35.82	30.25	56.29	46.29		PASS
3	0.7953	31.76	26.22	56.00	46.00		PASS
4	0.9031	31.12	25.54	56.00	46.00		PASS
5	1.4446	27.61	22.21	56.00	46.00		PASS
6	18.4954	33.19	23.26	60.00	50.00		PASS



A.9. Restricted Frequency Bands

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

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

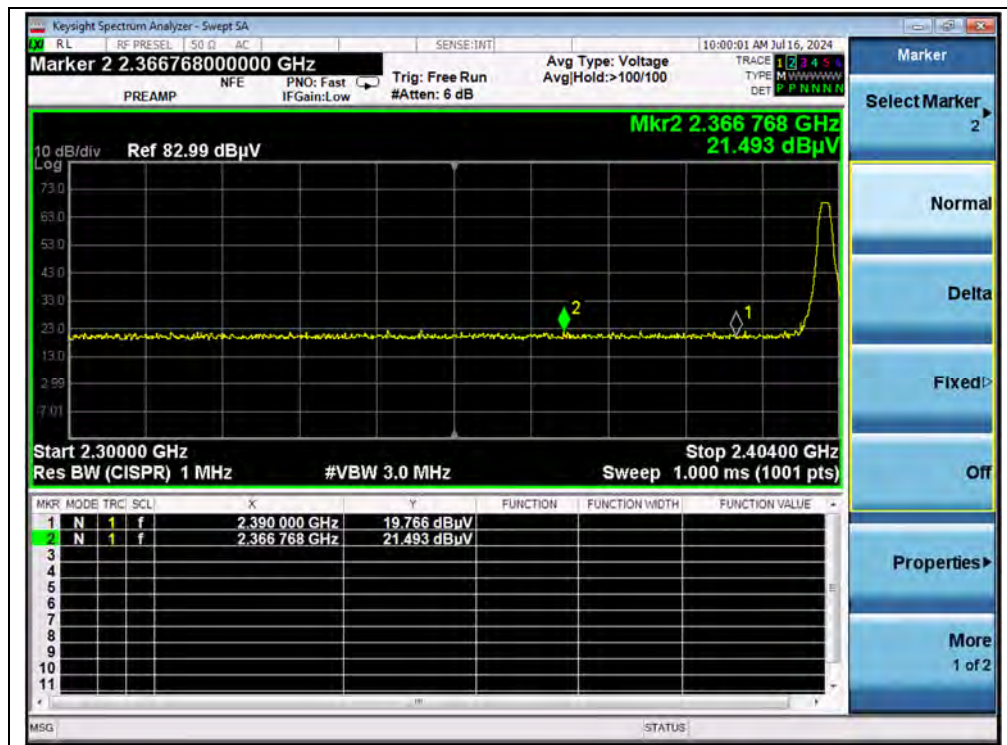
G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

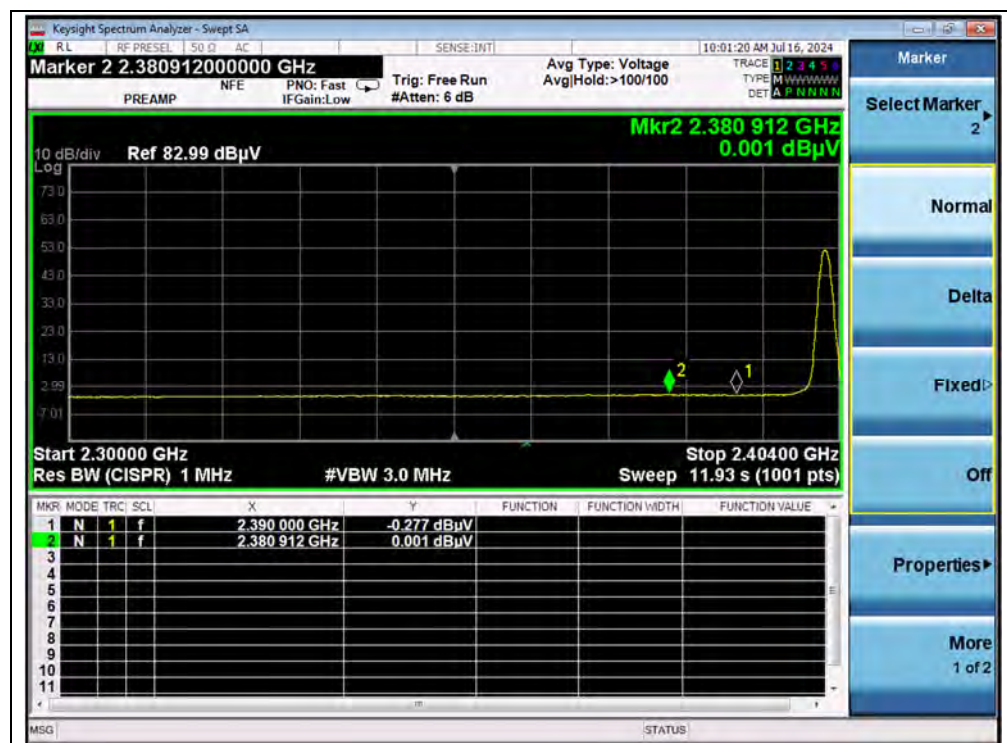
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

1Mbps

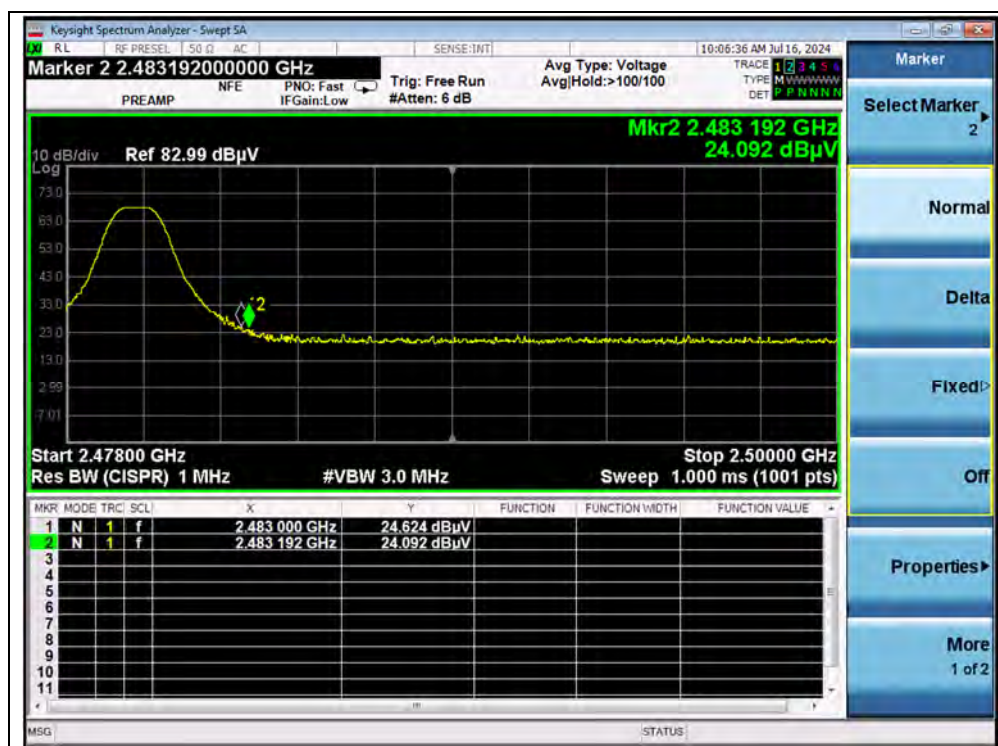
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2366.77	PK	21.49	5.78	27.50	54.77	74	PASS
0	2389.091	AV	0.00	5.78	27.50	33.28	54	PASS
39	2483.00	PK	24.62	5.78	27.50	57.90	74	PASS
39	2483.04	AV	0.51	5.78	27.50	33.79	54	PASS



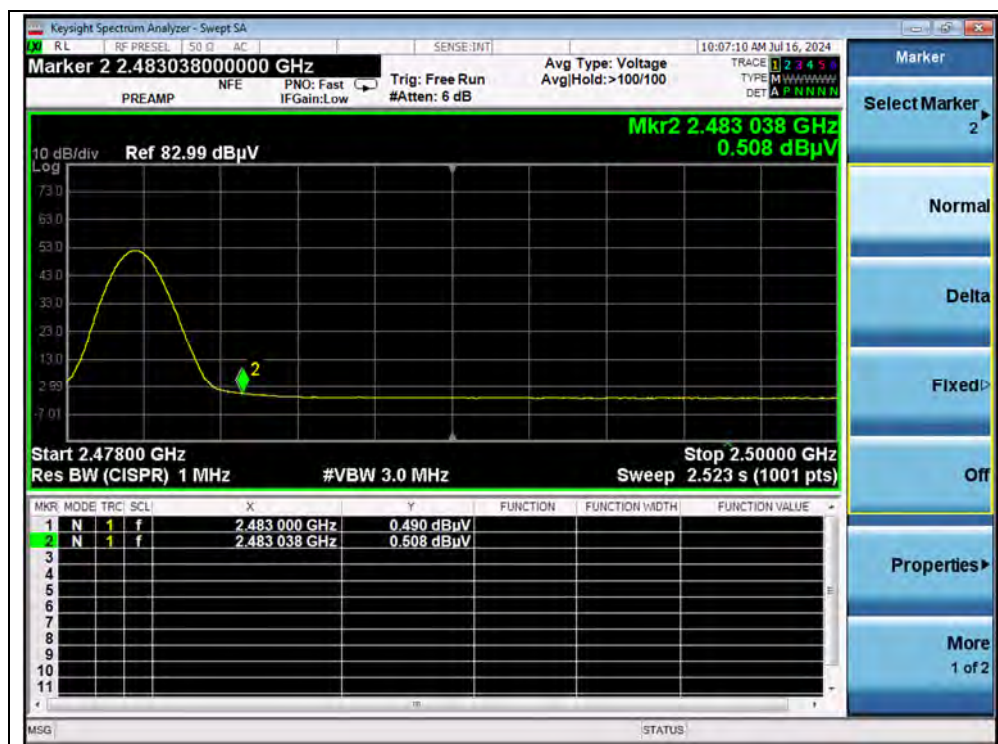
(Peak, Channel 0)



(AVERAGE, Channel 0)



(PEAK, Channel 39)

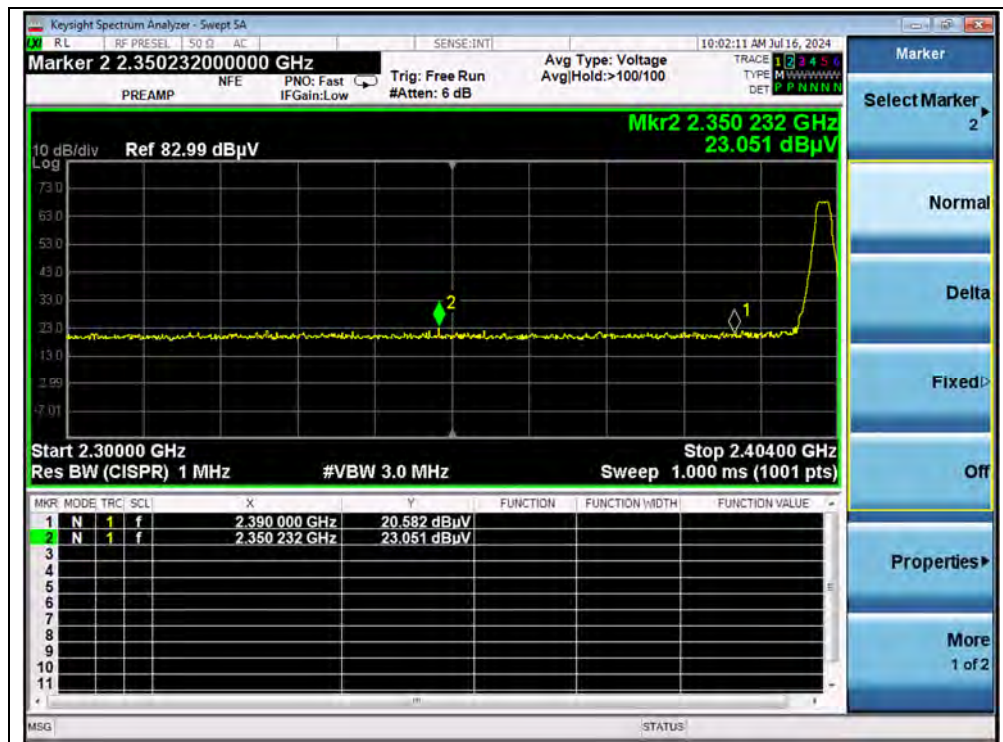


(AVERAGE, Channel 39)



2Mbps

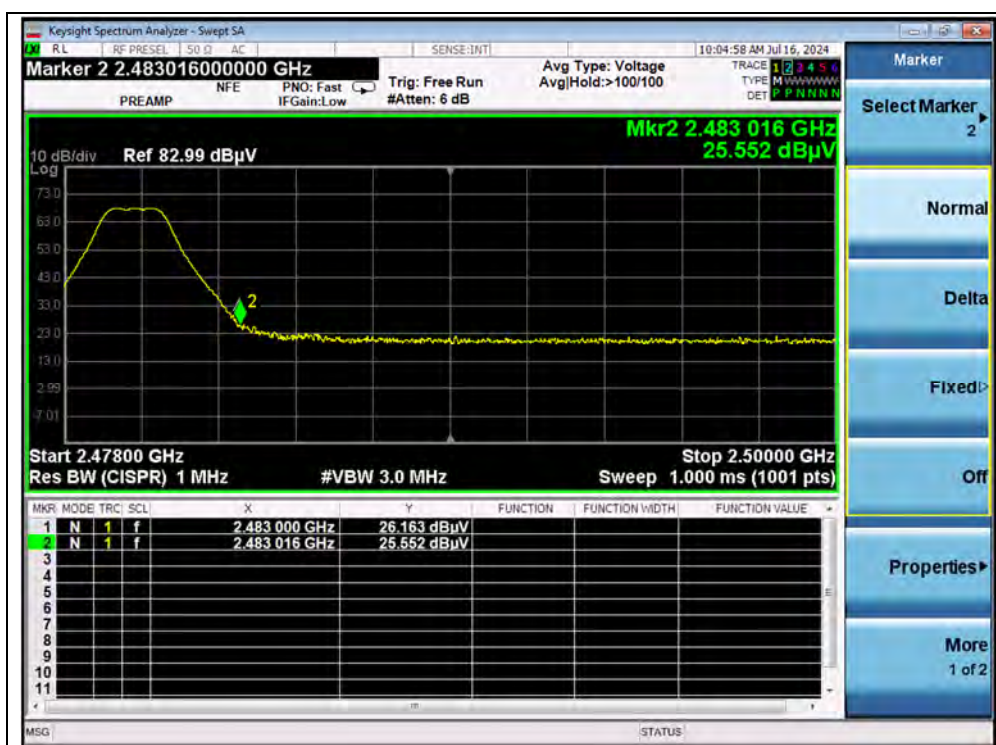
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2350.23	PK	23.05	5.78	27.50	56.33	74	PASS
0	2382.06	AV	-0.04	5.78	27.50	33.24	54	PASS
39	2483.00	PK	26.16	5.78	27.50	59.44	74	PASS
39	2483.00	AV	2.31	5.78	27.50	35.59	54	PASS



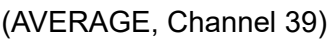
(PEAK, Channel 0)



(AVERAGE, Channel 0)



(PEAK, Channel 39)





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.

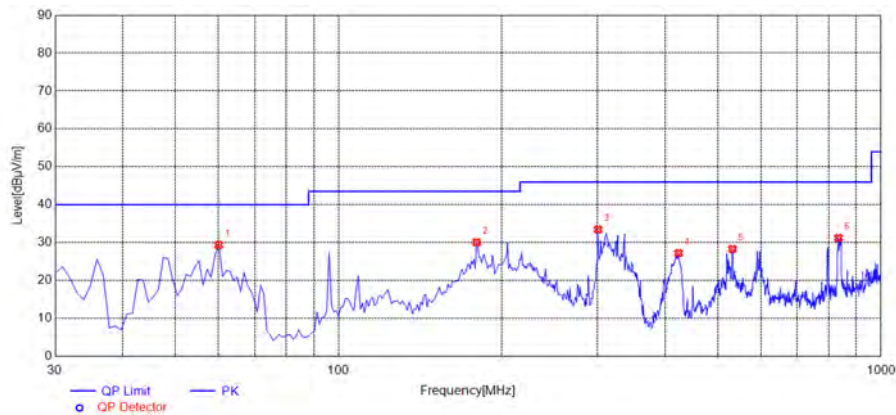
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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.

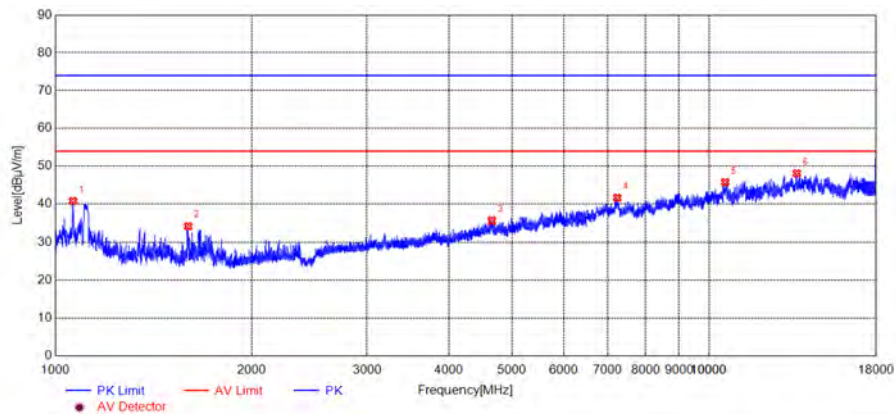
**1Mbps**

Plot for Channel 0



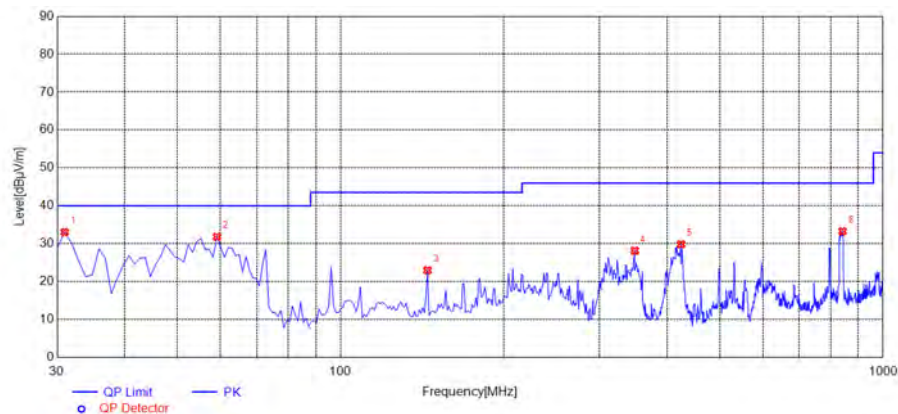
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
60.1001	29.38	-30.55	40.00	Horizontal	PASS
179.5295	30.07	-33.59	43.50	Horizontal	PASS
300.9009	33.45	-29.20	46.00	Horizontal	PASS
423.2432	27.25	-25.57	46.00	Horizontal	PASS
531.9920	28.32	-23.63	46.00	Horizontal	PASS
834.9349	31.23	-19.93	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



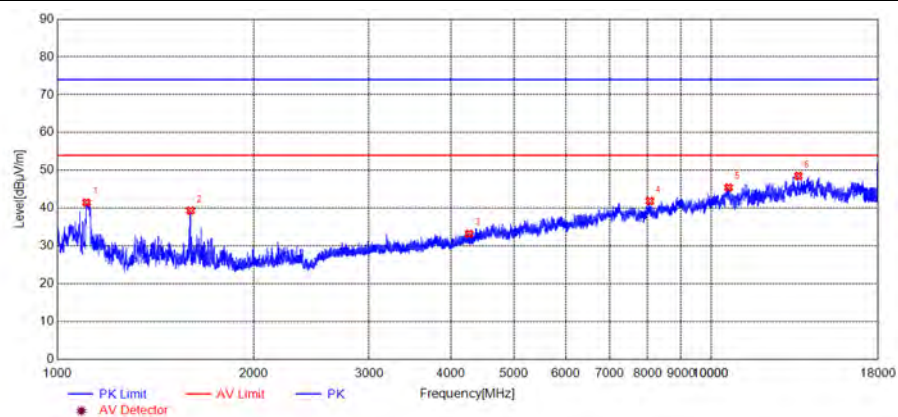
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1065.0065	40.80	-24.18	74.00	Horizontal	PASS
1597.5598	34.31	-23.61	74.00	Horizontal	PASS
4654.8655	35.73	-11.25	74.00	Horizontal	PASS
7237.3237	41.67	-3.16	74.00	Horizontal	PASS
10584.4584	45.79	2.15	74.00	Horizontal	PASS
13614.7615	48.16	6.81	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
30.9710	33.06	-32.94	40.00	Vertical	PASS
59.1291	31.83	-30.37	40.00	Vertical	PASS
144.5746	22.99	-35.33	43.50	Vertical	PASS
348.4785	28.18	-27.26	46.00	Vertical	PASS
424.2142	29.86	-25.54	46.00	Vertical	PASS
841.7317	33.27	-19.87	46.00	Vertical	PASS

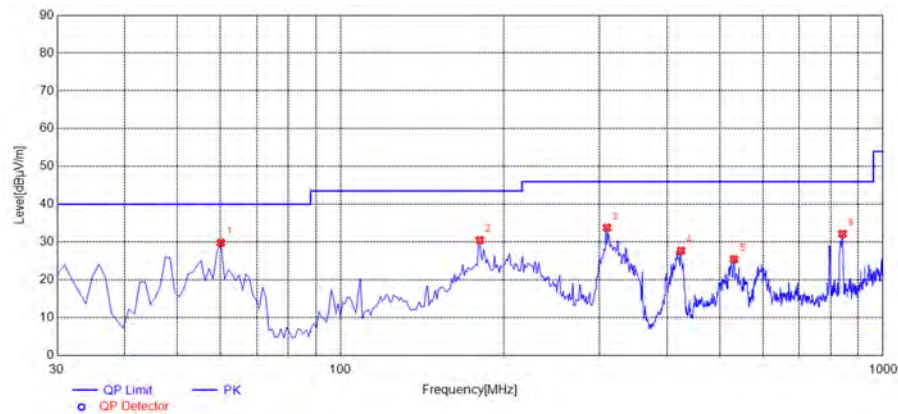
(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1109.5110	41.49	-24.24	74.00	Vertical	PASS
1600.0600	39.36	-23.59	74.00	Vertical	PASS
4264.3264	33.22	-13.69	74.00	Vertical	PASS
8060.6061	41.88	-3.12	74.00	Vertical	PASS
10631.2631	45.47	2.51	74.00	Vertical	PASS
13599.1599	48.55	7.62	74.00	Vertical	PASS

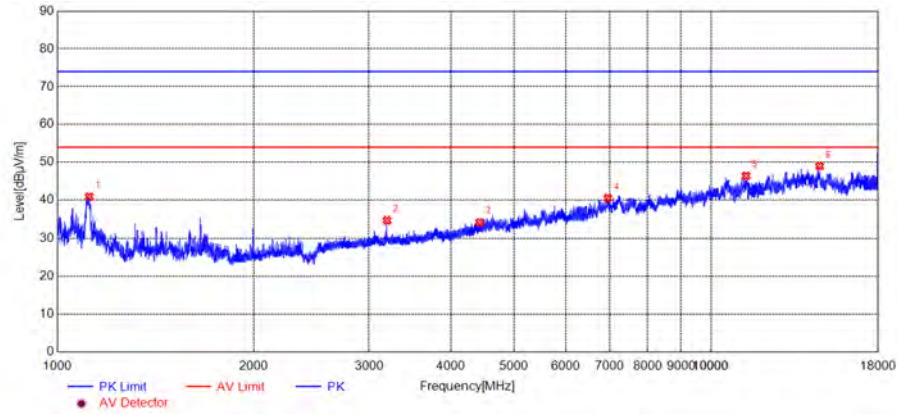
(Antenna Vertical, 1GHz to 18GHz)

Plot for Channel 19



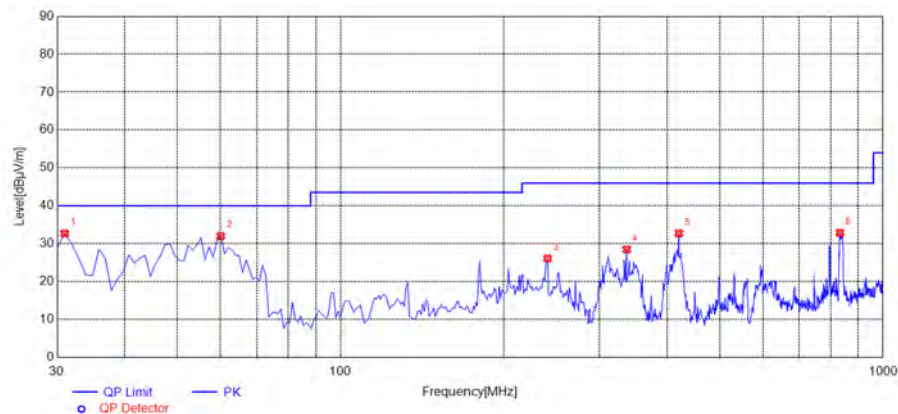
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
60.1001	29.83	-30.55	40.00	Horizontal	PASS
180.5005	30.55	-33.61	43.50	Horizontal	PASS
309.6396	33.79	-28.89	46.00	Horizontal	PASS
424.2142	27.72	-25.54	46.00	Horizontal	PASS
531.0210	25.47	-23.63	46.00	Horizontal	PASS
841.7317	32.19	-19.87	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



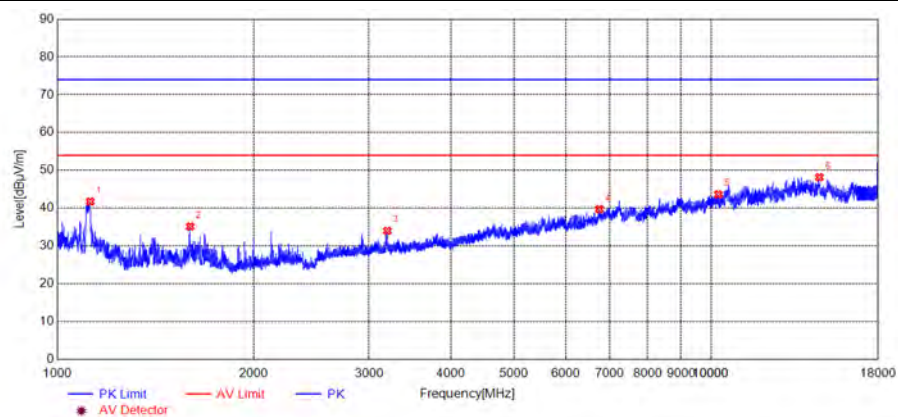
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1119.5120	40.91	-24.07	74.00	Horizontal	PASS
3194.7195	34.80	-17.34	74.00	Horizontal	PASS
4427.8428	34.29	-13.13	74.00	Horizontal	PASS
6954.0954	40.49	-4.62	74.00	Horizontal	PASS
11309.3309	46.43	3.17	74.00	Horizontal	PASS
14652.8653	49.01	7.74	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
30.9710	32.69	-32.94	40.00	Vertical	PASS
60.1001	32.02	-30.55	40.00	Vertical	PASS
240.7007	26.12	-30.63	46.00	Vertical	PASS
336.8268	28.50	-27.79	46.00	Vertical	PASS
420.3303	32.74	-25.68	46.00	Vertical	PASS
832.9930	32.90	-19.96	46.00	Vertical	PASS

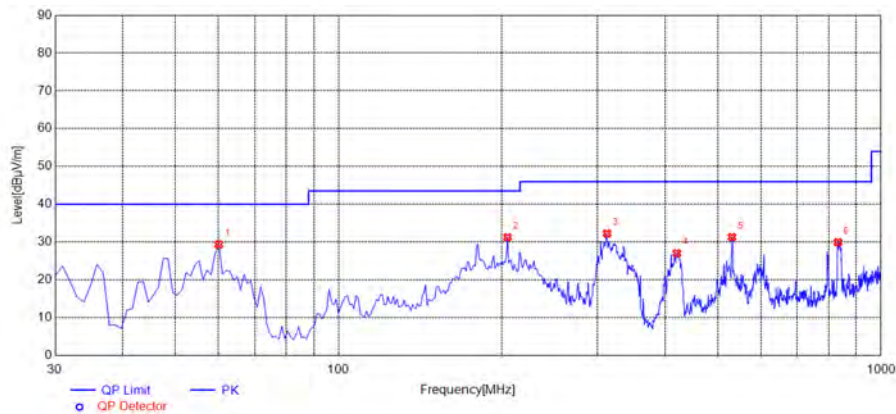
(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1123.5124	41.78	-24.00	74.00	Vertical	PASS
1597.5598	35.15	-23.61	74.00	Vertical	PASS
3198.7199	34.02	-17.29	74.00	Vertical	PASS
6750.0750	39.77	-4.99	74.00	Vertical	PASS
10258.0258	43.64	1.46	74.00	Vertical	PASS
14638.4638	48.19	7.56	74.00	Vertical	PASS

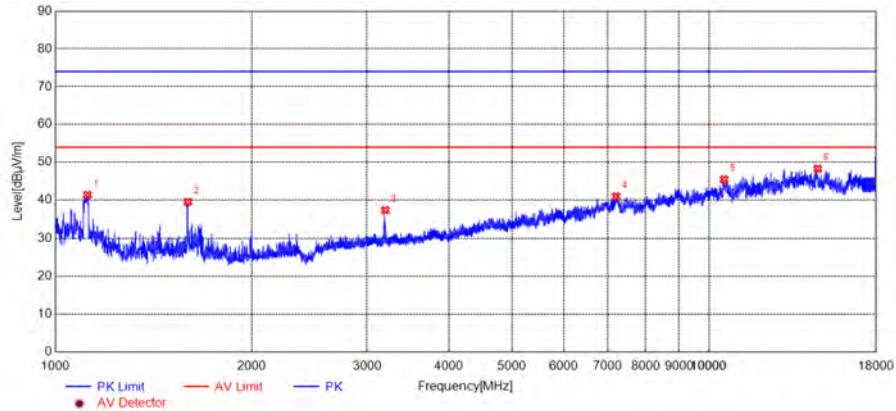
(Antenna Vertical, 1GHz to 18GHz)

Plot for Channel 39



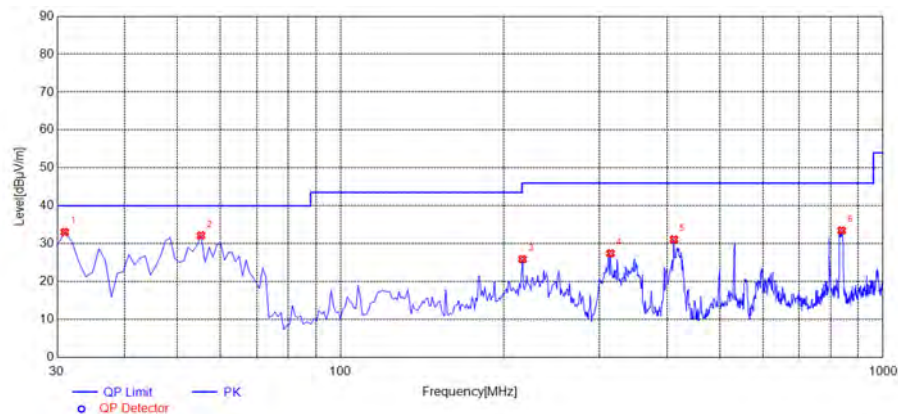
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
60.1001	29.37	-30.55	40.00	Horizontal	PASS
204.7748	31.27	-31.71	43.50	Horizontal	PASS
312.5526	32.26	-28.84	46.00	Horizontal	PASS
420.3303	27.07	-25.68	46.00	Horizontal	PASS
531.0210	31.31	-23.63	46.00	Horizontal	PASS
832.9930	29.97	-19.96	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



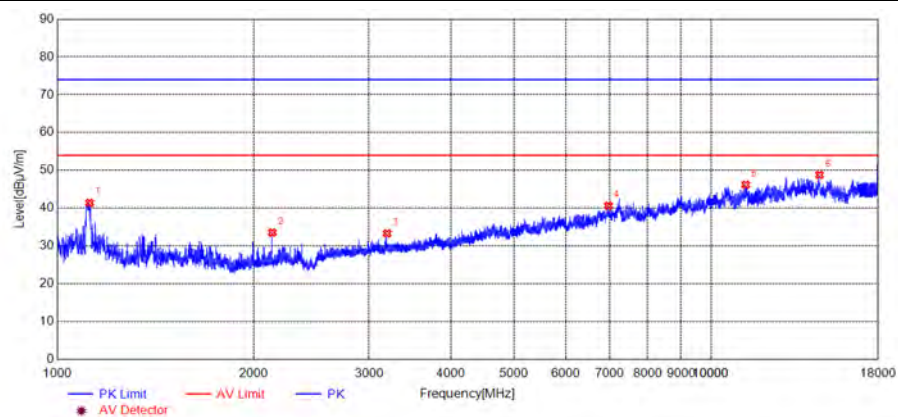
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1120.5121	41.37	-24.06	74.00	Horizontal	PASS
1595.5596	39.52	-23.63	74.00	Horizontal	PASS
3197.7198	37.37	-17.30	74.00	Horizontal	PASS
7213.3213	40.99	-3.70	74.00	Horizontal	PASS
10543.6544	45.48	3.01	74.00	Horizontal	PASS
14660.0660	48.30	7.49	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
30.9710	33.09	-32.94	40.00	Vertical	PASS
55.2452	32.19	-29.38	40.00	Vertical	PASS
216.4264	25.92	-31.89	46.00	Vertical	PASS
314.4945	27.46	-28.82	46.00	Vertical	PASS
411.5916	31.13	-25.93	46.00	Vertical	PASS
838.8188	33.48	-19.88	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)

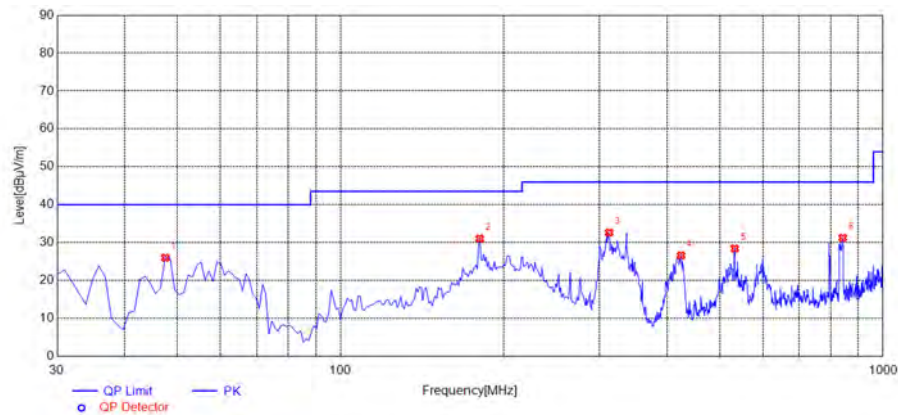


Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1121.0121	41.43	-24.05	74.00	Vertical	PASS
2132.6133	33.57	-21.58	74.00	Vertical	PASS
3195.2195	33.35	-17.33	74.00	Vertical	PASS
6967.2967	40.67	-4.61	74.00	Vertical	PASS
11300.9301	46.19	3.00	74.00	Vertical	PASS
14648.0648	48.80	7.79	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

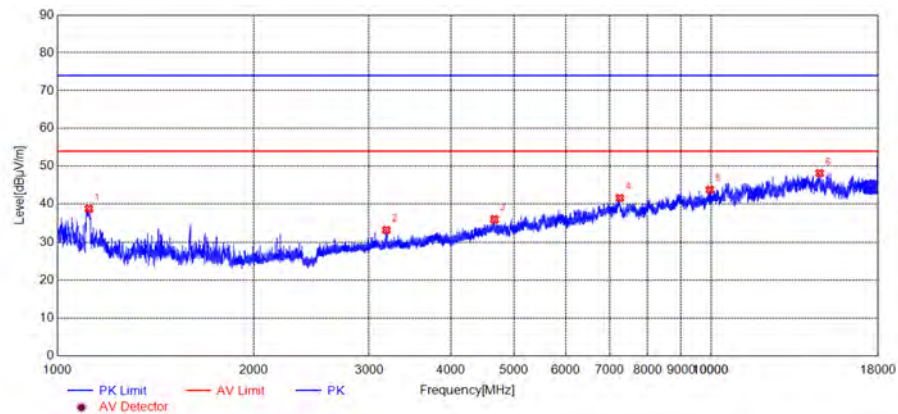
**2Mbps**

Plot for Channel 0



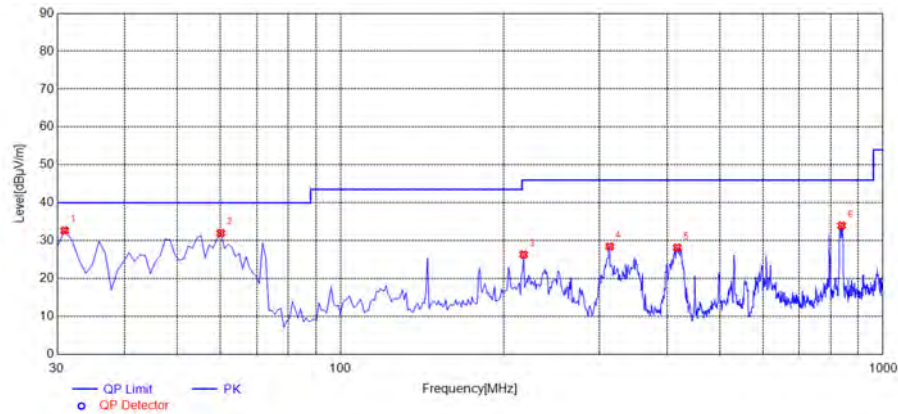
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
47.4775	26.00	-29.00	40.00	Horizontal	PASS
180.5005	31.06	-33.61	43.50	Horizontal	PASS
312.5526	32.65	-28.84	46.00	Horizontal	PASS
424.2142	26.61	-25.54	46.00	Horizontal	PASS
532.9630	28.45	-23.62	46.00	Horizontal	PASS
842.7027	31.23	-19.87	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



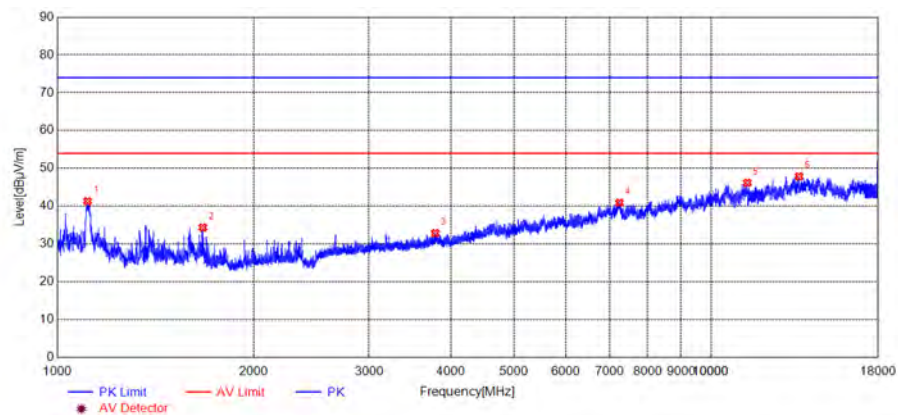
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1118.5119	38.77	-24.09	74.00	Horizontal	PASS
3187.2187	33.31	-17.42	74.00	Horizontal	PASS
4663.3663	36.02	-11.40	74.00	Horizontal	PASS
7252.9253	41.61	-2.98	74.00	Horizontal	PASS
9956.7957	43.83	0.14	74.00	Horizontal	PASS
14656.4656	48.18	7.61	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
30.9710	32.68	-32.94	40.00	Vertical	PASS
60.1001	32.04	-30.55	40.00	Vertical	PASS
217.3974	26.36	-31.85	46.00	Vertical	PASS
313.5235	28.49	-28.83	46.00	Vertical	PASS
417.4174	28.19	-25.77	46.00	Vertical	PASS
838.8188	33.99	-19.88	46.00	Vertical	PASS

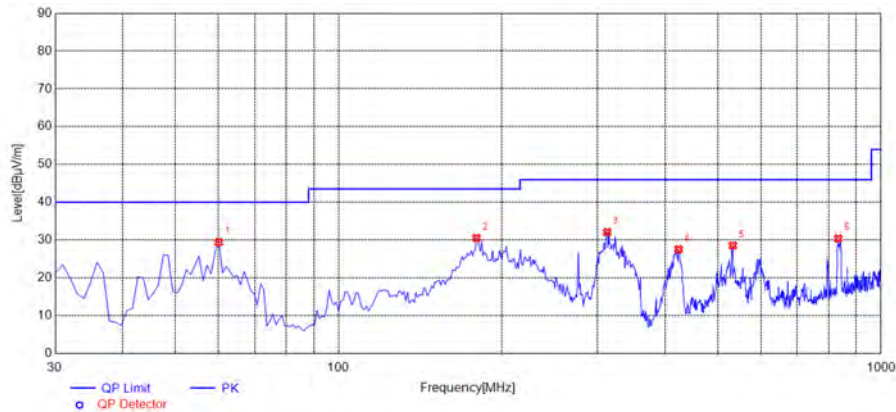
(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1113.0113	41.32	-24.18	74.00	Vertical	PASS
1670.0670	34.37	-23.66	74.00	Vertical	PASS
3787.7788	32.86	-15.13	74.00	Vertical	PASS
7239.7240	40.90	-3.11	74.00	Vertical	PASS
11358.5359	46.19	3.74	74.00	Vertical	PASS
13630.3630	47.88	5.92	74.00	Vertical	PASS

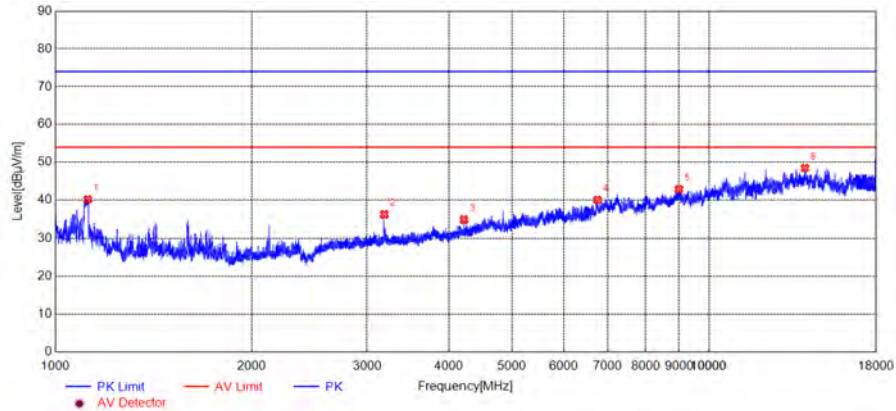
(Antenna Vertical, 1GHz to 18GHz)

Plot for Channel 19



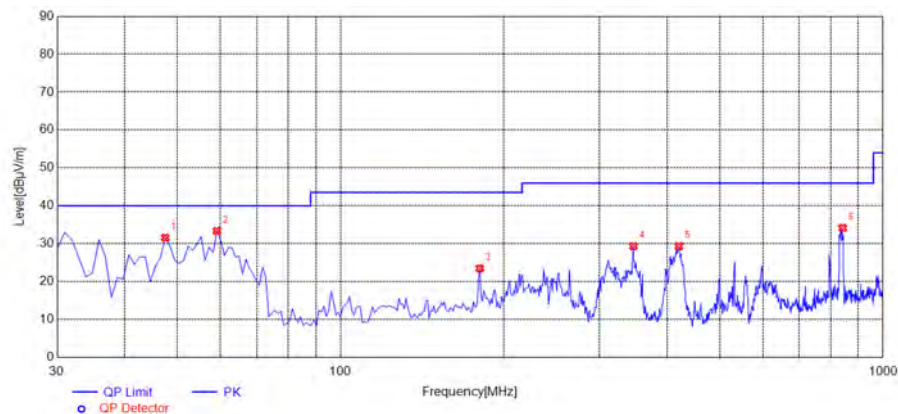
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
60.1001	29.46	-30.55	40.00	Horizontal	PASS
179.5295	30.57	-33.59	43.50	Horizontal	PASS
312.5526	32.12	-28.84	46.00	Horizontal	PASS
423.2432	27.58	-25.57	46.00	Horizontal	PASS
532.9630	28.58	-23.62	46.00	Horizontal	PASS
833.9640	30.43	-19.94	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



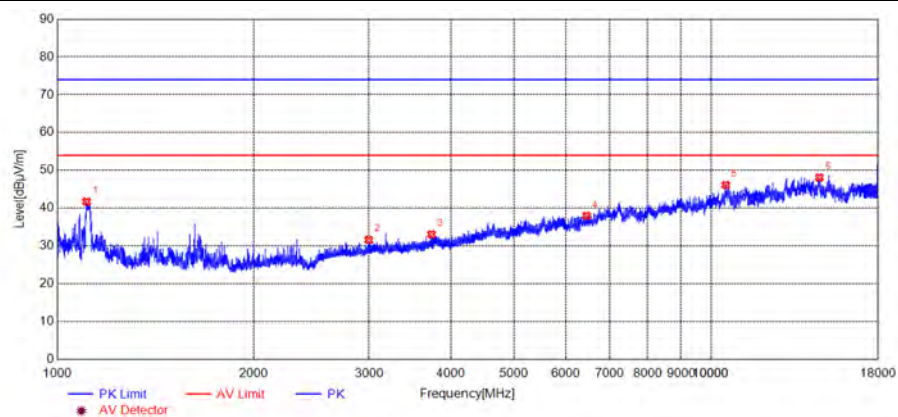
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1121.5122	40.20	-24.04	74.00	Horizontal	PASS
3186.2186	36.27	-17.43	74.00	Horizontal	PASS
4220.8221	34.92	-13.71	74.00	Horizontal	PASS
6752.4752	40.06	-5.05	74.00	Horizontal	PASS
8993.0993	42.88	-0.87	74.00	Horizontal	PASS
14015.6016	48.51	5.93	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
47.4775	31.59	-29.00	40.00	Vertical	PASS
59.1291	33.37	-30.37	40.00	Vertical	PASS
180.5005	23.51	-33.61	43.50	Vertical	PASS
346.5365	29.36	-27.35	46.00	Vertical	PASS
420.3303	29.34	-25.68	46.00	Vertical	PASS
842.7027	34.19	-19.87	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)

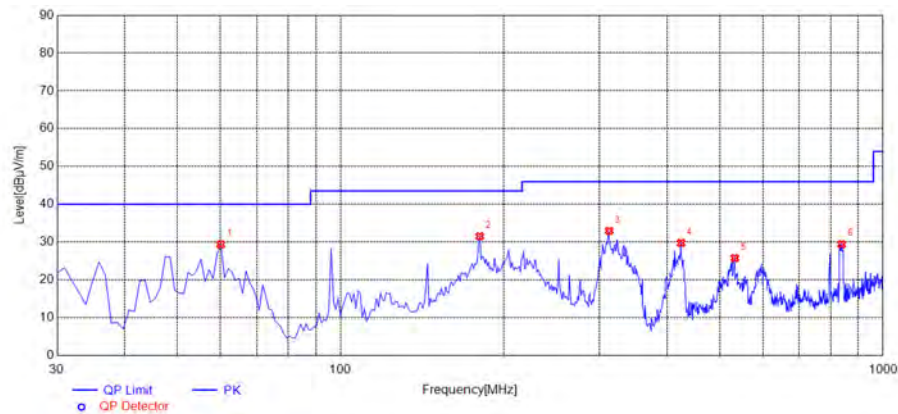


Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1109.5110	41.73	-24.24	74.00	Vertical	PASS
2995.6996	31.64	-18.26	74.00	Vertical	PASS
3736.7737	33.09	-15.81	74.00	Vertical	PASS
6453.6454	38.00	-6.94	74.00	Vertical	PASS
10530.4530	46.13	2.46	74.00	Vertical	PASS
14640.8641	48.10	7.62	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

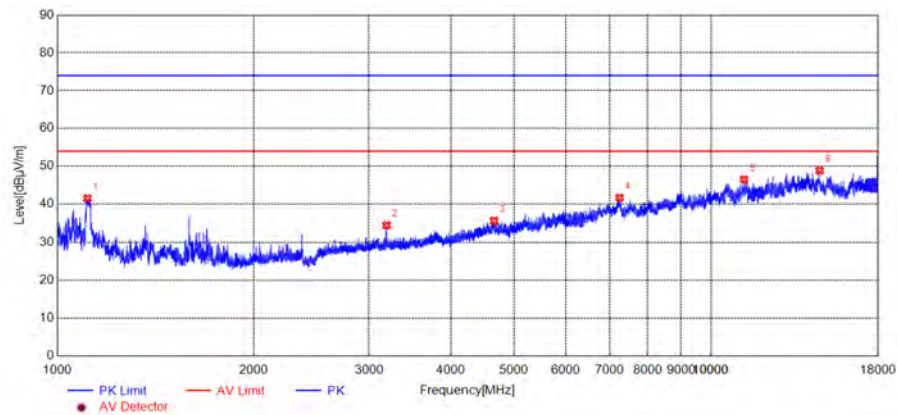


Plot for Channel 39



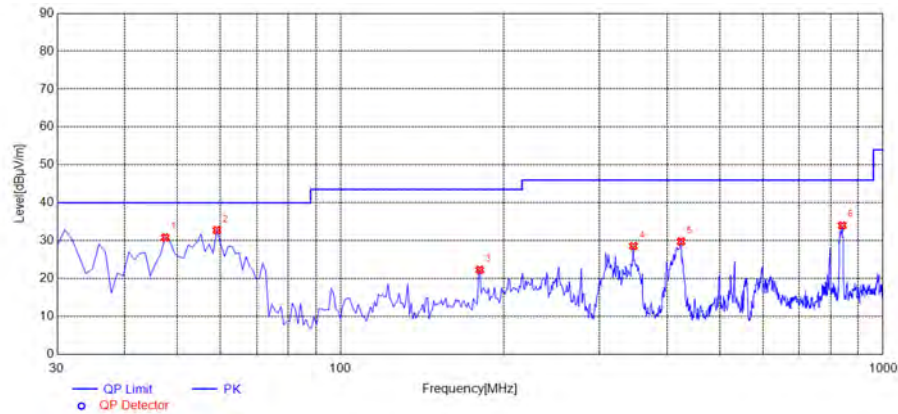
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
60.1001	29.38	-30.55	40.00	Horizontal	PASS
180.5005	31.55	-33.61	43.50	Horizontal	PASS
312.5526	32.96	-28.84	46.00	Horizontal	PASS
424.2142	29.79	-25.54	46.00	Horizontal	PASS
532.9630	25.78	-23.62	46.00	Horizontal	PASS
838.8188	29.43	-19.88	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



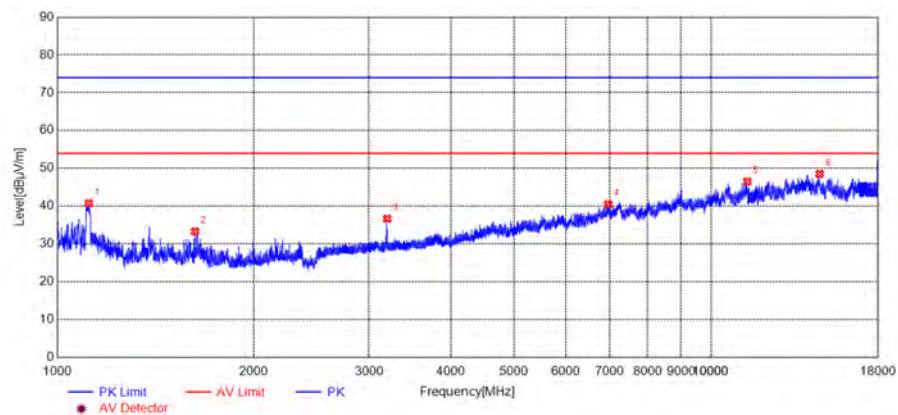
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1112.5113	41.55	-24.19	74.00	Horizontal	PASS
3191.2191	34.59	-17.37	74.00	Horizontal	PASS
4657.3657	35.65	-11.30	74.00	Horizontal	PASS
7244.5245	41.67	-3.00	74.00	Horizontal	PASS
11230.1230	46.52	3.48	74.00	Horizontal	PASS
14652.8653	48.89	7.74	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
47.4775	30.86	-29.00	40.00	Vertical	PASS
59.1291	32.78	-30.37	40.00	Vertical	PASS
180.5005	22.33	-33.61	43.50	Vertical	PASS
346.5365	28.58	-27.35	46.00	Vertical	PASS
424.2142	29.79	-25.54	46.00	Vertical	PASS
840.7608	34.02	-19.86	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1118.0118	40.75	-24.10	74.00	Vertical	PASS
1625.0625	33.34	-23.61	74.00	Vertical	PASS
3197.2197	36.71	-17.31	74.00	Vertical	PASS
6962.4963	40.50	-4.61	74.00	Vertical	PASS
11363.3363	46.54	3.58	74.00	Vertical	PASS
14658.8659	48.54	7.53	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

END OF REPORT