RF TEST REPORT

Product Name: Smartphone

Model Name: A181

FCC ID: 2A9SN-A181

Issued For : INOI Limited

Office 302, Dominion Centre 43-59, Queens Road, East Wanchai, Hong Kong, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China

Report Number:	LGT22L018RF12
Sample Received Date:	Dec. 13, 2022
Date of Test:	Dec. 13, 2022~ Feb. 21, 2023
Date of Issue:	Feb. 21, 2023

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TEST REPORT CERTIFICATION

Applicant	INOI Limited
Address	Office 302, Dominion Centre 43-59, Queens Road, East Wanchai, Hong Kong, China
Manufacturer	INOI Limited
Address	Office 302, Dominion Centre 43-59, Queens Road, East Wanchai, Hong Kong, China
Product Name	Smartphone
Trademark	INOI
Model Name	A181
Sample Status:	Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.247, Subpart C ANSI C63.10-2013	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li
Technical Director

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Revision History

Rev.	Issue Date	Contents
00	Feb. 21, 2023	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247 (a)(2)	6dB Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.209	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.

1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF Output Power, Conducted	±0.71dB
2	Power Spectral Density, Conducted	±1.57 dB
3	Unwanted Emission, Conducted	±0.63dB
4	Conducted emission	±2.80dB
5	All Emissions, Radiated (0.009-30MHz)	±2.16dB
6	All Emissions, Radiated (30MHz-1GHz)	±4.40dB
7	All Emissions, Radiated (1GHz-18GHz)	±5.49dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name</td><td>Smartphone</td></tr>
<tr><td>Trademark</td><td>INOI</td></tr>
<tr><td>Model Name</td><td>A181</td></tr>
<tr><td>Series Model</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</td></tr>
<tr><td>Product Description</td><td>The EUT is a Smartphone
<table>
<tr><td>Operation Frequency:</td><td>802.11b/g/n: 2412~2462 MHz
802.11n (40MHz):2422~2452MHz</td></tr>
<tr><td>Modulation Type:</td><td>802.11b(DSSS):CCK,DQPSK,DBPSK
802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM
802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM</td></tr>
<tr><td>Number of Channel:</td><td>802.11b/g/n: 11CH
802.11n: 7CH</td></tr>
<tr><td>Antenna Designation:</td><td>PIFA Antenna</td></tr>
<tr><td>Antenna Gain(dBi):</td><td>1.13</td></tr>
</table></td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Adapter</td><td>Model: IN-C01/19
Input: 100-240V, 50/60Hz, 0.25A
Output: 5V, 1.5A</td></tr>
<tr><td>Battery</td><td>Capacity: 4000mAh
Rated Voltage: 3.85V</td></tr>
<tr><td>Hardware Version</td><td>N/A</td></tr>
<tr><td>Software Version</td><td>N/A</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the Note 1.</td></tr>
</table>

Note:

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

2.

Operation Frequency of channel			
802.11b/g/n(20MHz)		Channel List for 802.11n(40MHz)	
Channel	Frequency	Channel	Frequency
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447		
09	2452		
10	2457		
11	2462		

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, themiddle frequency, and the highest frequency of channel were selected to perform the test, and the selectedchannel see below:
Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)		For 802.11n (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452

3. KDB 662911 D01 Multiple Transmitter Output v02r01
2) Directional Gain Calculations for In-Band Measurements
a) Basic methodology with NANT transmit antennas, each with the same directional gain GAN T dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be com puted as follows:
(i) If any transmit signals are correlated with each other,
Directional gain = GANT + 10 log(NANT) dBi
(ii) If all transmit signals are completely uncorrelated with each other,
Directional gain = GANT

4

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	INOI	A181	PIFA antenna	N/A	1.13	WLAN Antenna

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

2.2 DESCRIPTION OF THE TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH9	MCS 0

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode13: Keeping TX + WLAN Link

2.3 TEST SOFTWARE AND POWER LEVEL

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

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_A Power Class	Software For Testing
WIFI(2.4G)	2.4G WIFI	802.11b	1.13	20	Engineering mode
		802.11g		20	
		802.11n(HT20)		20	
		802.11n(HT40)		20	
		802.11ax(HT20)		20	
		802.11ax(HT40)		20	

2.4 DESCRIPTION OF necessary accessories AND support units

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

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	INOI Limited	IN-C01/19	N/A	Input: 100-240V ~ 50/60Hz 0.25A Output: 5V, 1.5A
USB-A to USB-C Cable	N/A	N/A	N/A	1m, shielded, without ferrite core

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Earphone	N/A	39630078	N/A	N/A
Laptop	HUAWEI	HKF-16	N/A	N/A
HUAWEI MateDock 3	HUAWEI	CD12	N/A	N/A

Note:

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

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
Active loop Antenna	R&S	HFH2-Z2	POS871398181	2022.06.02	2024.06.01
Spectrum Analyzer	Keysight	N9010B	MY60242508	2022.04.29	2023.04.28
Bilog Antenna	SCHWARZBECK	VULB 9168	01447	2022.12.12	2024.12.11
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2024.06.01
Pre-amplifier(0.1M-3G Hz)	HP	8447D	2727A05655	2022.04.11	2023.04.10
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2022.04.13	2023.04.12
RE Cable (9K-1G)	N.A	R01	N.A	2022.05.05	2023.05.04
RE Cable (1-26G)	N.A	R02	N.A	2022.05.05	2023.05.04
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
LISN	COM-POWER	LI-115	02032	2022.04.13	2023.04.12
LISN	SCHWARZBECK	NNLK 8121	00847	2022.08.19	2023.08.18
CE Cable	N.A	C01	N.A	2022.05.05	2023.05.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2022.08.19	2023.08.18
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EZ-EMC(Ver.EMC-CON 3A1.1)				

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
Signal Analyzer	Keysight	N9010B	MY60242508	2022.04.29	2023.04.28
RF Automatic Test system	MTS	MW200-RFCB	MW220322LG	2022.04.29	2023.04.28
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2022.05.10	2023.05.09
Attenuator	eastsheep	90db	N.A	2022.04.29	2023.04.28
Testing Software	MTS 8310_2.0.0.0_MWRF-TEST				

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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

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

Note:

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

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

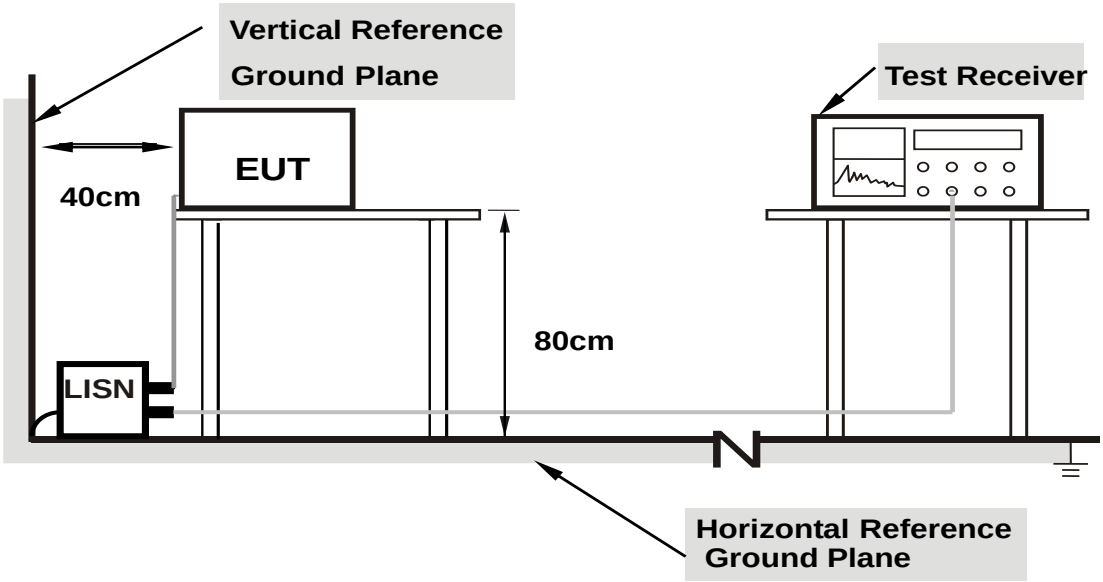
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

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

3.1.3 TEST SETUP



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

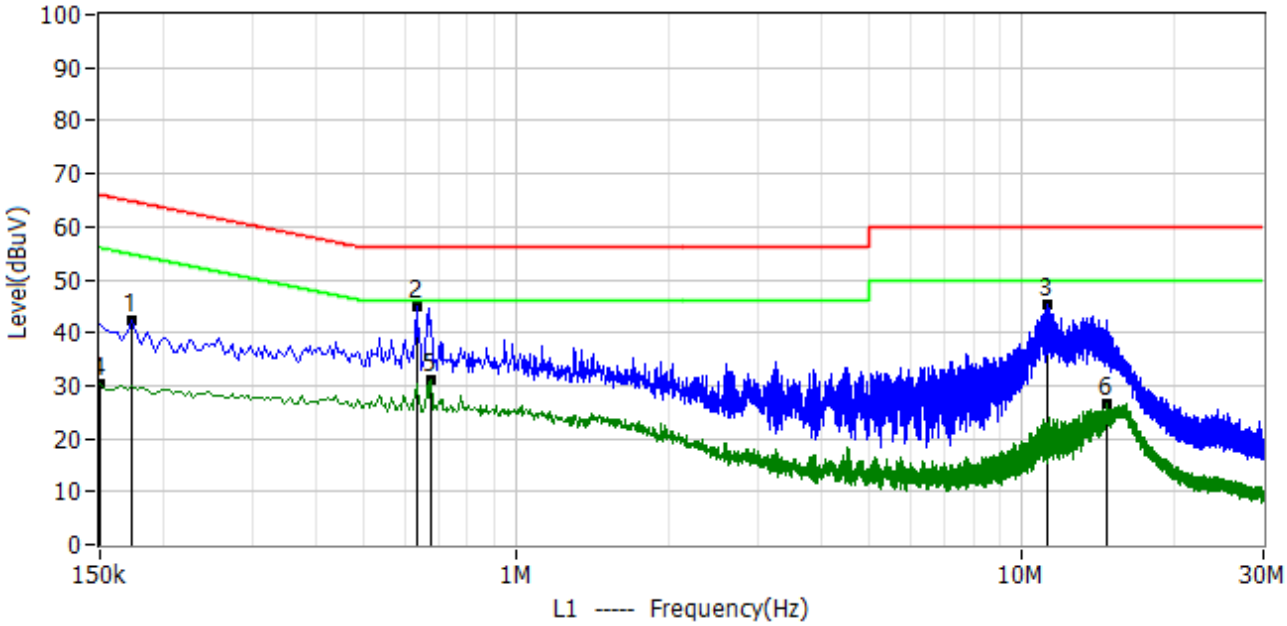
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.4 EUT OPERATING CONDITIONS

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

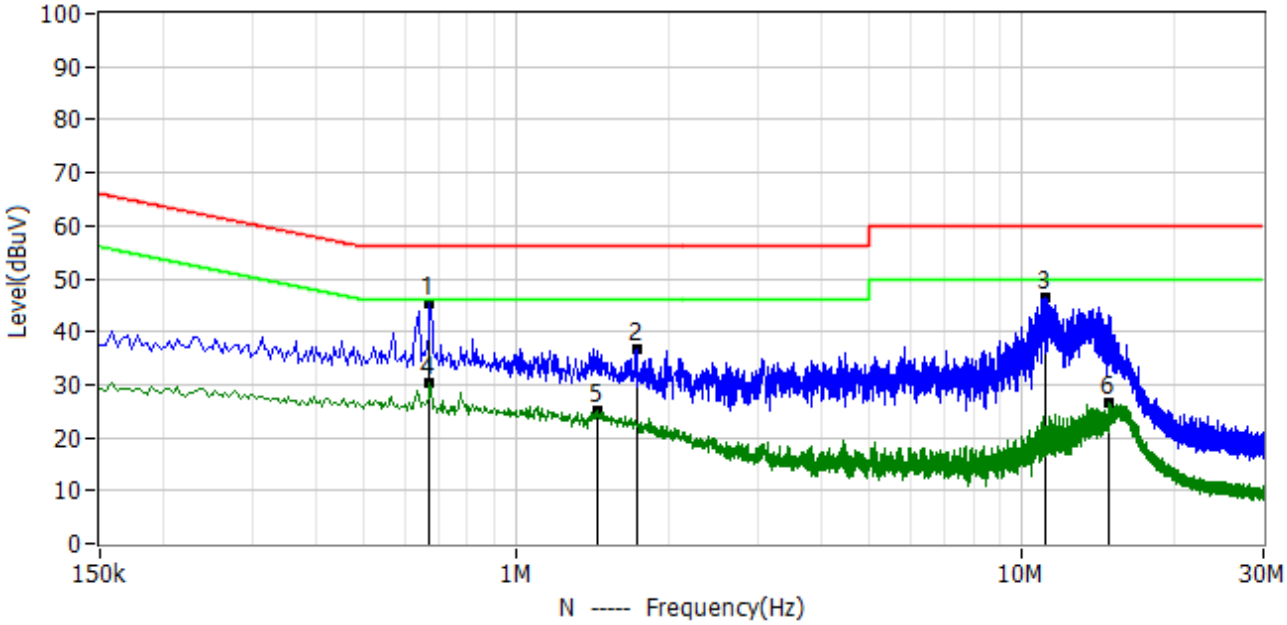
3.1.5 TEST RESULT

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 18.2℃
M/N: A181	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2022-12-20
Test Mode: TX 2.4G WIFI	
Note:	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	174.000kHz	31.68	10.50	42.18	64.77	-22.59	PK	L1
2*	634.000kHz	34.46	10.51	44.97	56.00	-11.03	PK	L1
3*	11.226MHz	34.35	10.98	45.33	60.00	-14.67	PK	L1
4*	150.000kHz	19.72	10.50	30.22	56.00	-25.78	AV	L1
5*	678.000kHz	20.44	10.51	30.95	46.00	-15.05	AV	L1
6*	14.706MHz	15.68	11.04	26.72	50.00	-23.28	AV	L1

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 18.2℃
M/N: A181	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2022-12-20
Test Mode: TX 2.4G WIFI	
Note:	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	674.000kHz	34.72	10.51	45.23	56.00	-10.77	PK	N
2*	1.726MHz	26.06	10.68	36.74	56.00	-19.26	PK	N
3*	11.110MHz	35.57	10.98	46.55	60.00	-13.45	PK	N
4*	674.000kHz	19.81	10.51	30.32	46.00	-15.68	AV	N
5*	1.442MHz	14.50	10.62	25.12	46.00	-20.88	AV	N
6*	14.886MHz	15.36	11.06	26.42	50.00	-23.58	AV	N

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

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

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2310 to 2430 MHz Upper Band Edge: 2445 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

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

3.2.2 TEST PROCEDURE

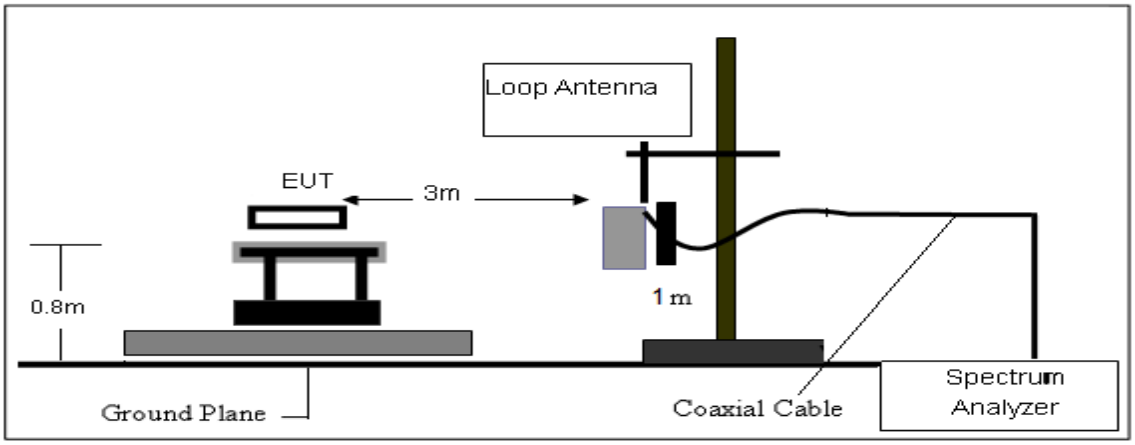
a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

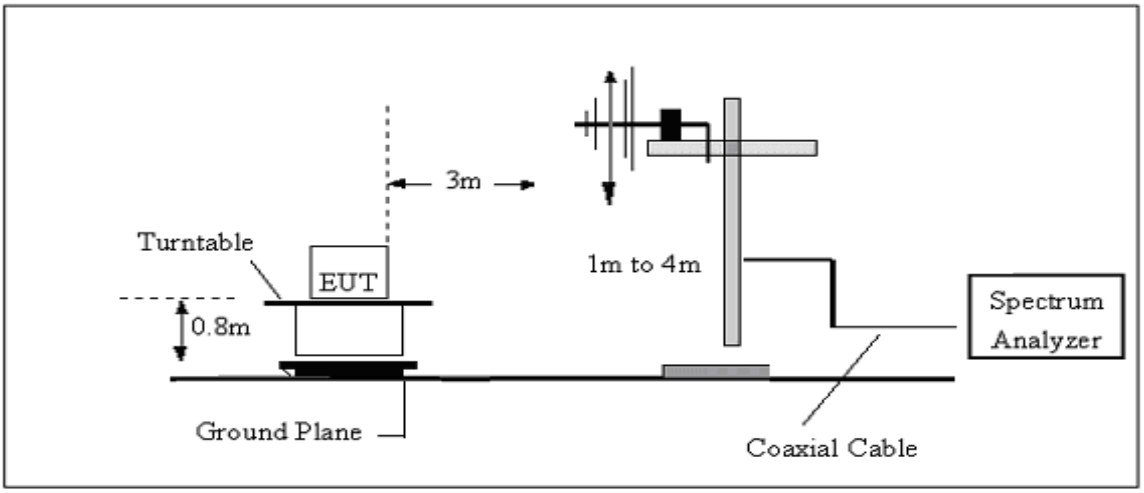
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 TEST SETUP

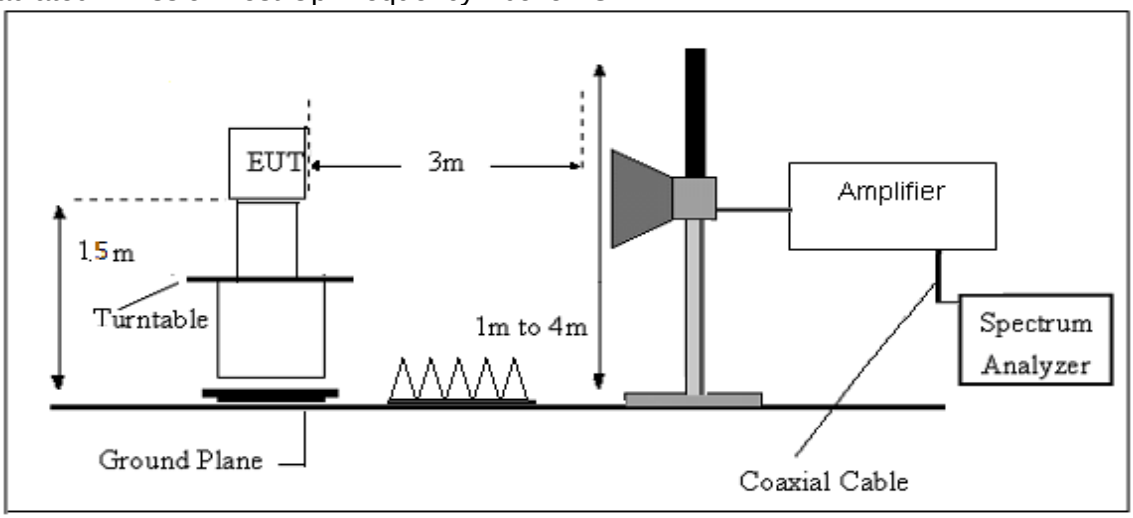
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.

3.2.5 FIELD STRENGTH CALCULATION

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

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

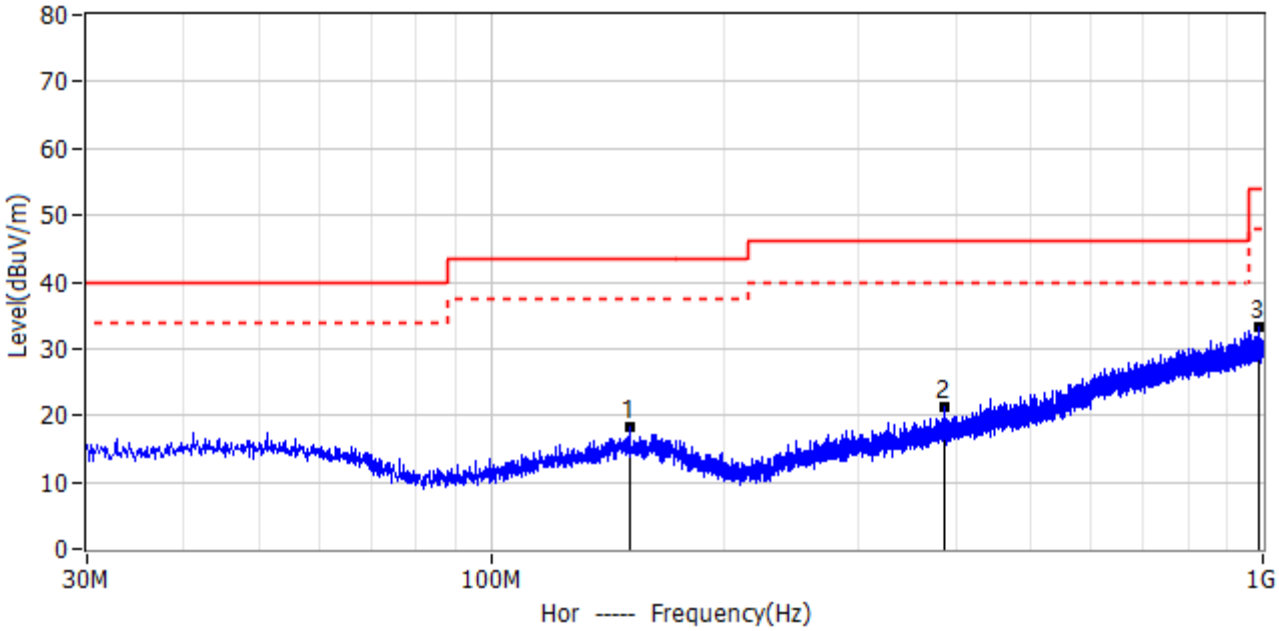
For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

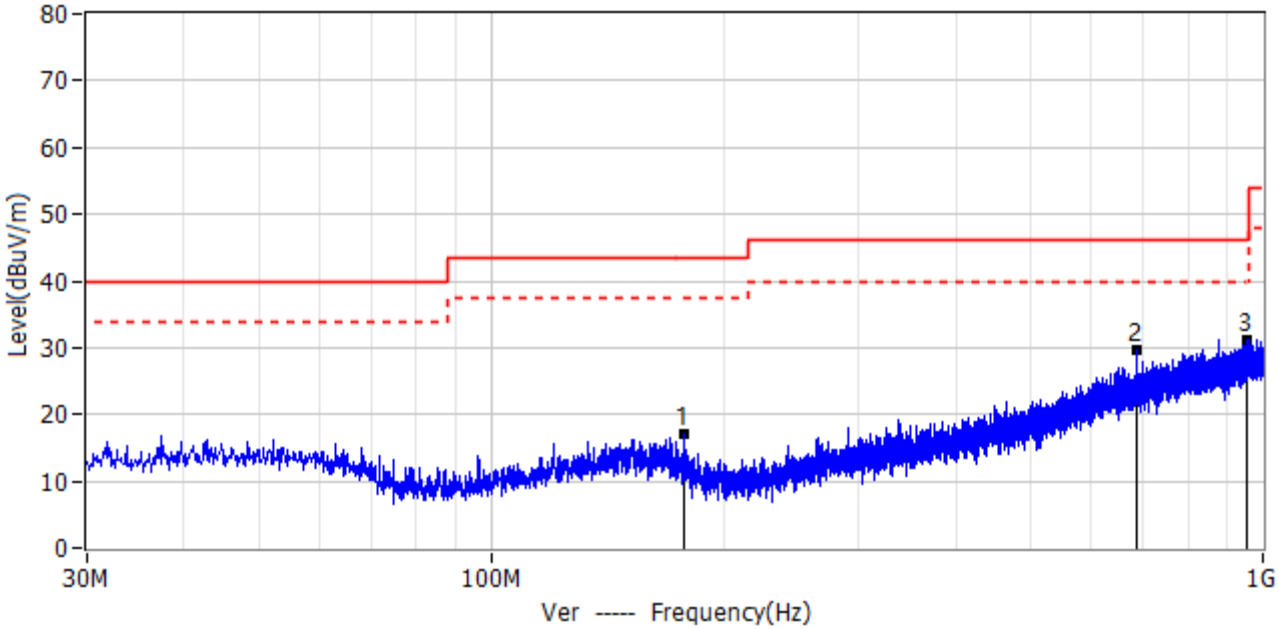
3.2.6 TEST RESULT

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 21.3℃
M/N: A181	Humidity: 43%RH
Test Voltage: AC 120V60Hz	Test Data: 2022-12-21
Test Mode: TX 2.4G WIFI	
Note:	



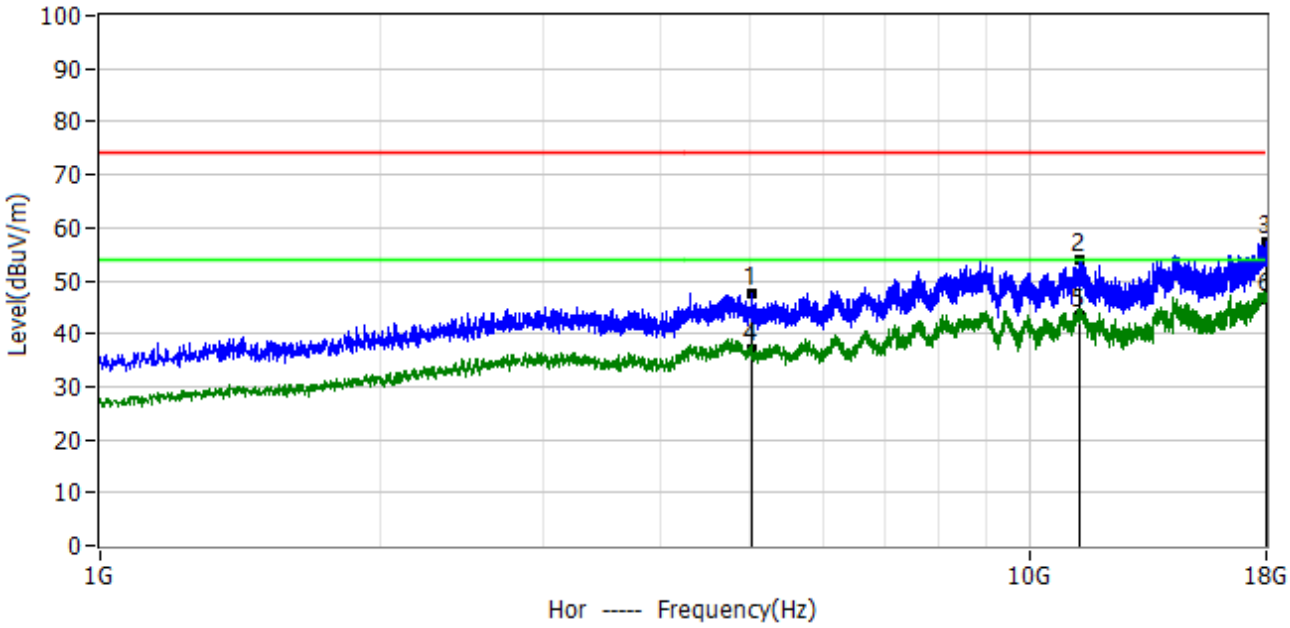
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	151.129MHz	4.15	14.20	18.35	43.50	-25.15	PK	Hor
2*	387.930MHz	4.39	16.77	21.16	46.00	-24.84	PK	Hor
3*	989.815MHz	5.34	27.86	33.20	54.00	-20.80	PK	Hor

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 21.3℃
M/N: A181	Humidity: 43%RH
Test Voltage: AC 120V60Hz	Test Data: 2022-12-21
Test Mode: TX 2.4G WIFI	
Note:	



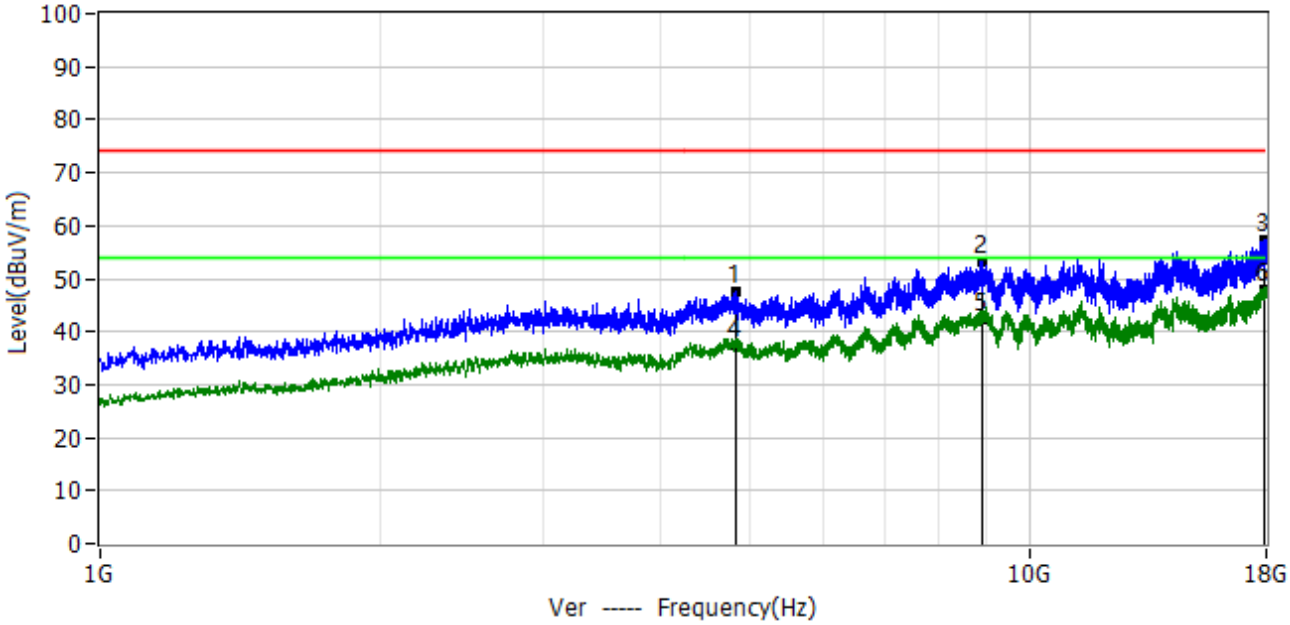
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	177.561MHz	4.17	12.85	17.02	43.50	-26.48	PK	Ver
2*	687.539MHz	6.24	23.39	29.63	46.00	-16.37	PK	Ver
3*	953.076MHz	3.36	27.75	31.11	46.00	-14.89	PK	Ver

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 24.2℃
M/N: A181	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2023-01-08
Test Mode: 802.11n40 2412	
Note:	



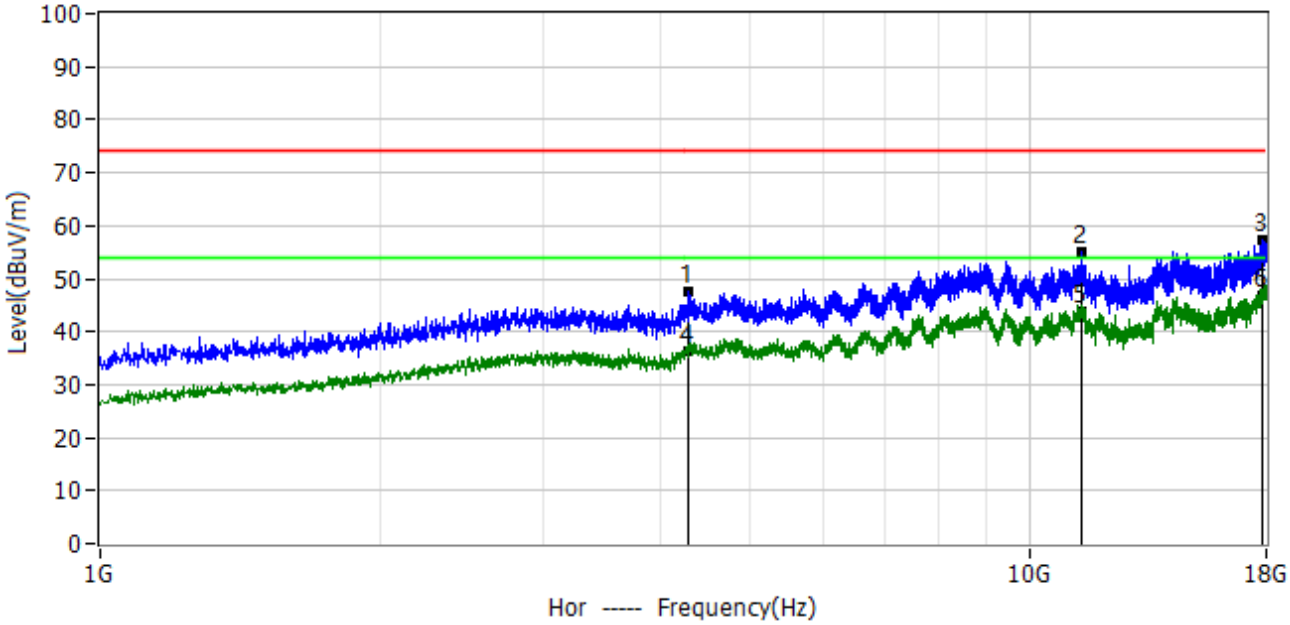
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	5.018GHz	53.84	-6.20	47.64	74.00	-26.36	PK	Hor
2*	11.353GHz	52.01	1.84	53.85	74.00	-20.15	PK	Hor
3*	17.966GHz	48.94	8.50	57.44	74.00	-16.56	PK	Hor
4*	5.018GHz	43.40	-6.20	37.20	54.00	-16.80	AV	Hor
5*	11.353GHz	41.56	1.84	43.40	54.00	-10.60	AV	Hor
6*	17.966GHz	38.10	8.50	46.60	54.00	-7.40	AV	Hor

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 24.2℃
M/N: A181	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2023-01-08
Test Mode: 802.11n40 2412	
Note:	



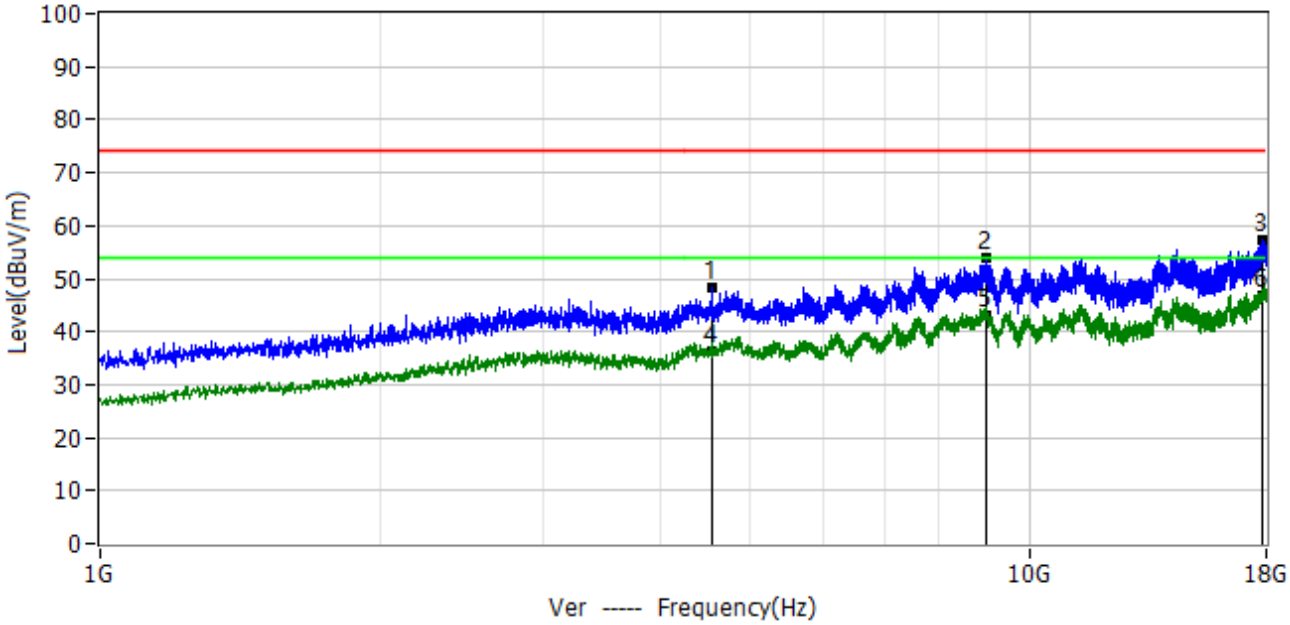
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4.838GHz	53.60	-6.02	47.58	74.00	-26.42	PK	Ver
2*	8.894GHz	54.80	-1.47	53.33	74.00	-20.67	PK	Ver
3*	17.949GHz	48.86	8.48	57.34	74.00	-16.66	PK	Ver
4*	4.838GHz	43.52	-6.02	37.50	54.00	-16.50	AV	Ver
5*	8.894GHz	43.97	-1.47	42.50	54.00	-11.50	AV	Ver
6*	17.949GHz	39.42	8.48	47.90	54.00	-6.10	AV	Ver

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 24.2℃
M/N: A181	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2023-01-08
Test Mode: 802.11n40 2437	
Note:	



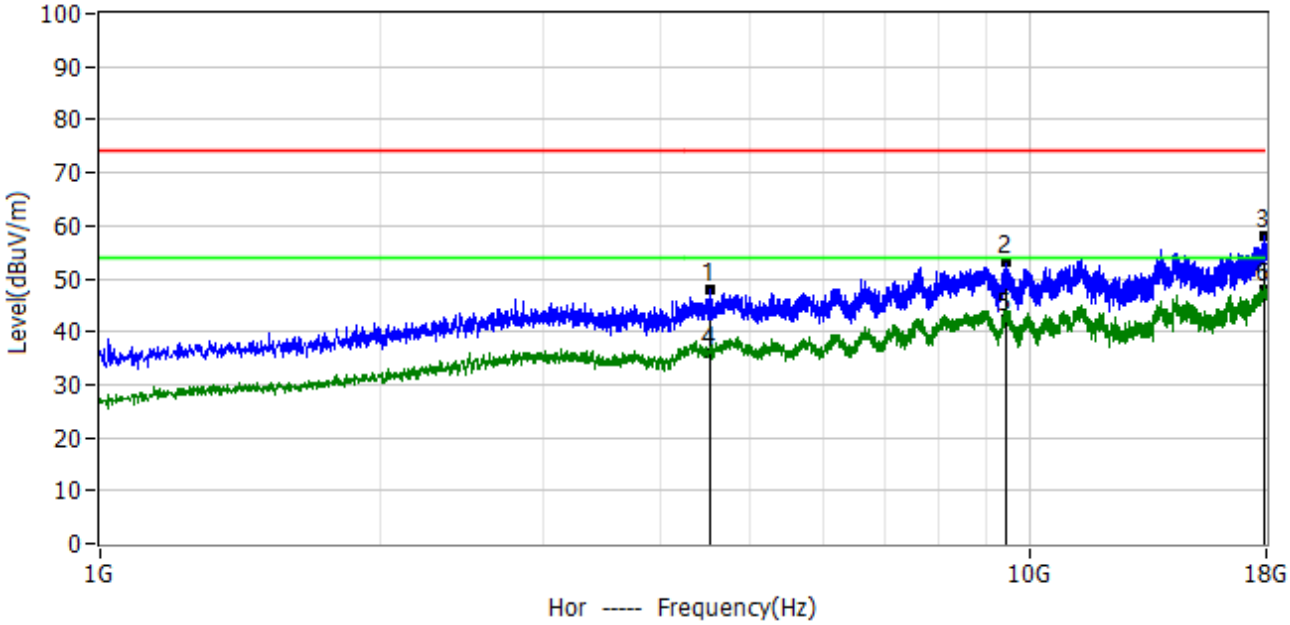
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4.302GHz	54.34	-6.59	47.75	74.00	-26.25	PK	Hor
2*	11.364GHz	53.28	1.84	55.12	74.00	-18.88	PK	Hor
3*	17.783GHz	48.89	8.37	57.26	74.00	-16.74	PK	Hor
4*	4.302GHz	42.79	-6.59	36.20	54.00	-17.80	AV	Hor
5*	11.364GHz	42.06	1.84	43.90	54.00	-10.10	AV	Hor
6*	17.783GHz	38.33	8.37	46.70	54.00	-7.30	AV	Hor

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 24.2℃
M/N: A181	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2023-01-08
Test Mode: 802.11n40 2437	
Note:	



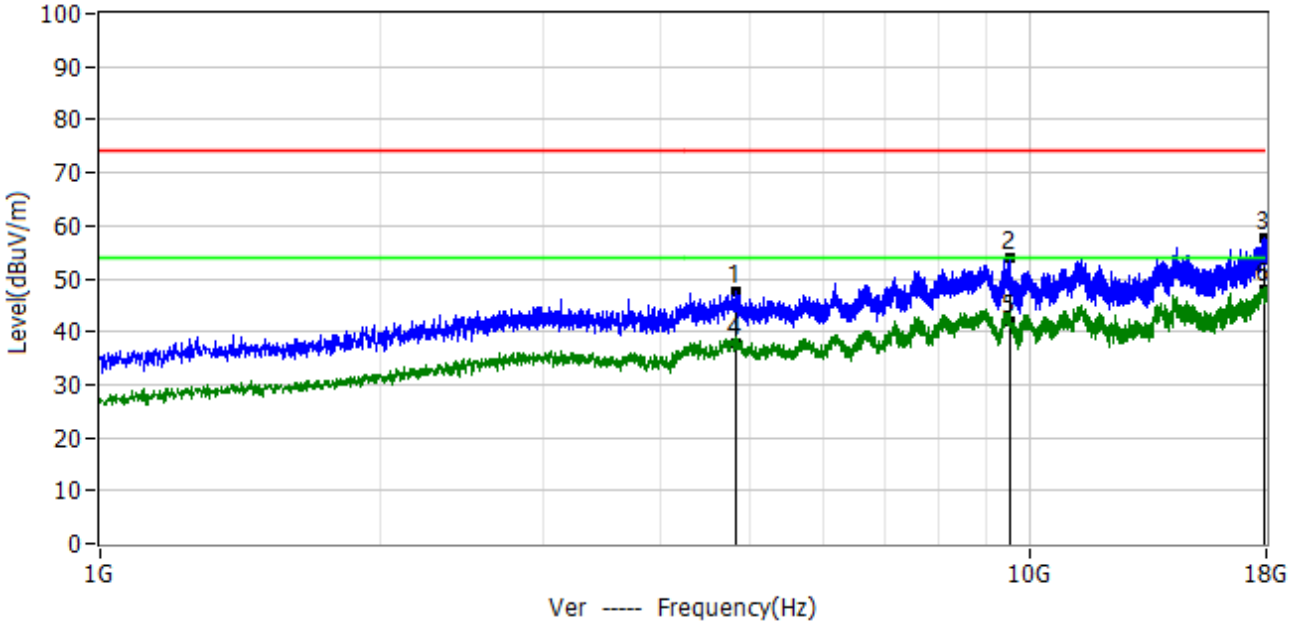
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4.551GHz	53.98	-5.79	48.19	74.00	-25.81	PK	Ver
2*	9.007GHz	54.97	-1.17	53.80	74.00	-20.20	PK	Ver
3*	17.841GHz	48.85	8.41	57.26	74.00	-16.74	PK	Ver
4*	4.551GHz	41.99	-5.79	36.20	54.00	-17.80	AV	Ver
5*	9.007GHz	44.07	-1.17	42.90	54.00	-11.10	AV	Ver
6*	17.841GHz	38.29	8.41	46.70	54.00	-7.30	AV	Ver

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 24.2℃
M/N: A181	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2023-01-08
Test Mode: 802.11n40 2462	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4.536GHz	53.83	-5.78	48.05	74.00	-25.95	PK	Hor
2*	9.441GHz	54.17	-1.17	53.00	74.00	-21.00	PK	Hor
3*	17.911GHz	49.50	8.46	57.96	74.00	-16.04	PK	Hor
4*	4.536GHz	41.78	-5.78	36.00	54.00	-18.00	AV	Hor
5*	9.441GHz	43.67	-1.17	42.50	54.00	-11.50	AV	Hor
6*	17.911GHz	39.44	8.46	47.90	54.00	-6.10	AV	Hor

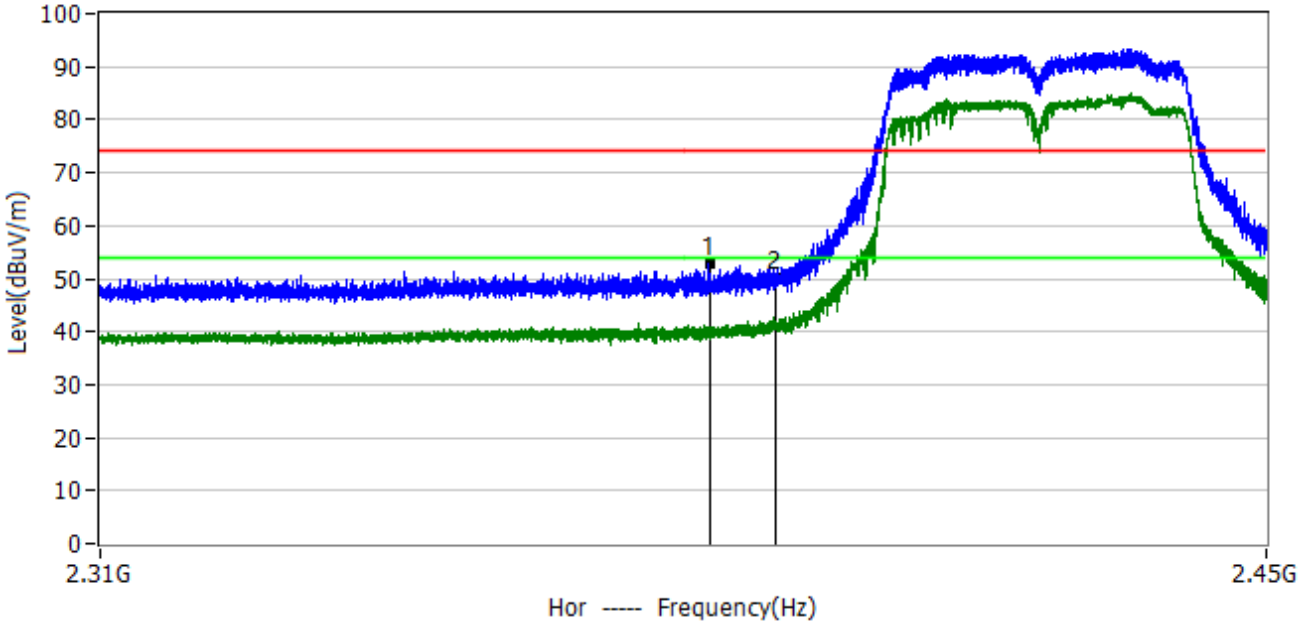
Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 24.2℃
M/N: A181	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2023-01-08
Test Mode: 802.11n40 2462	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4.834GHz	53.43	-6.01	47.42	74.00	-26.58	PK	Ver
2*	9.538GHz	55.26	-1.18	54.08	74.00	-19.92	PK	Ver
3*	17.904GHz	49.30	8.45	57.75	74.00	-16.25	PK	Ver
4*	4.834GHz	44.01	-6.01	38.00	54.00	-16.00	AV	Ver
5*	9.538GHz	43.18	-1.18	42.00	54.00	-12.00	AV	Ver
6*	17.904GHz	39.55	8.45	48.00	54.00	-6.00	AV	Ver

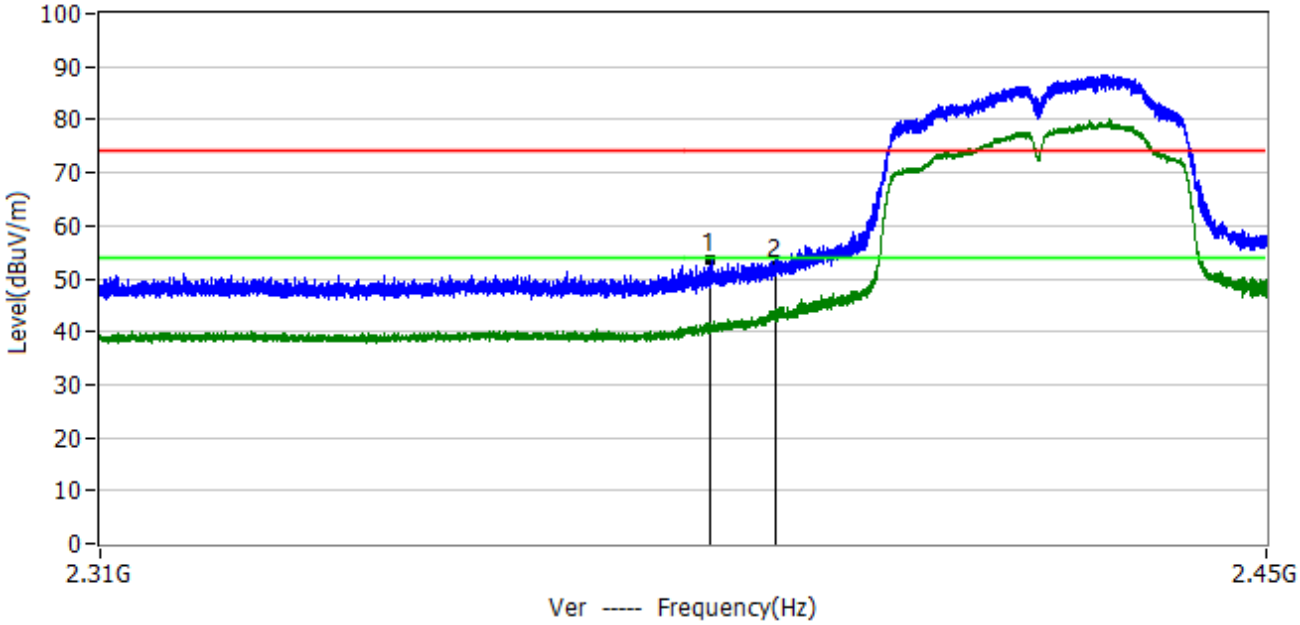
3.2.7 TEST RESULTS(Band edge Requirements)

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 21.2℃
M/N: A181	Humidity: 63%RH
Test Voltage: Battery	Test Data: 2023-01-11
Test Mode: 802.11n40 2422	
Note:	



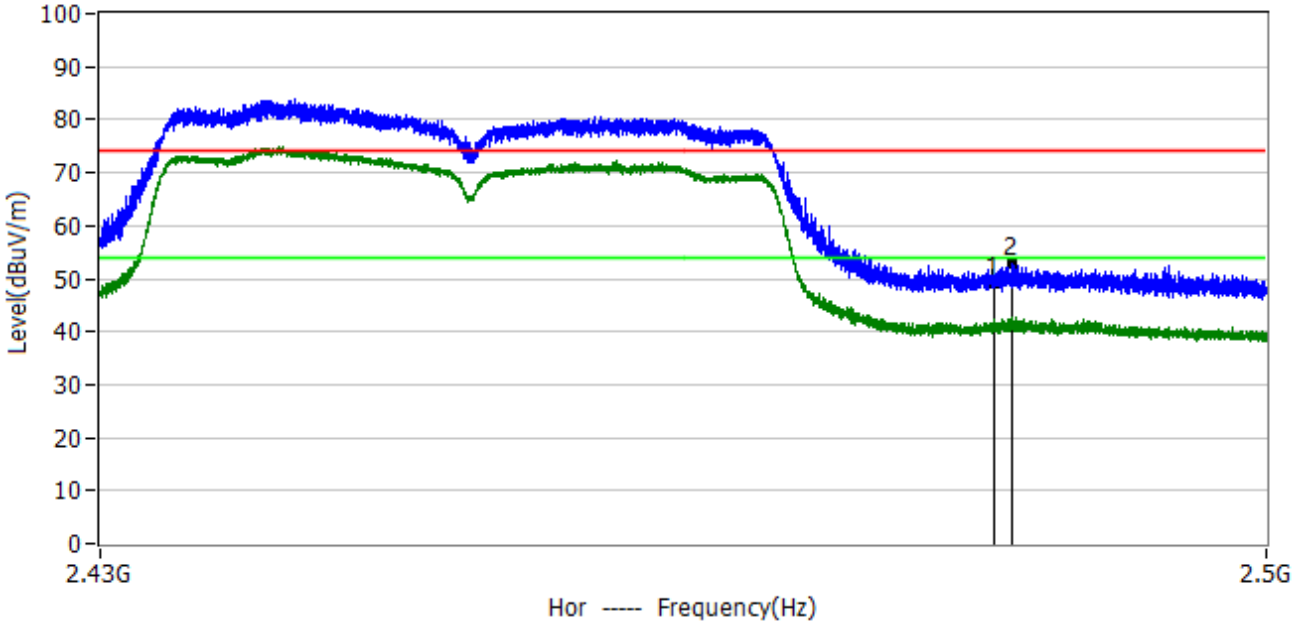
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3821GHz	18.69	33.97	52.66	74.00	-21.34	PK	Hor
2*	2.3900GHz	16.25	33.95	50.20	74.00	-23.80	PK	Hor

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 21.2℃
M/N: A181	Humidity: 63%RH
Test Voltage: Battery	Test Data: 2023-01-11
Test Mode: 802.11n40 2422	
Note:	



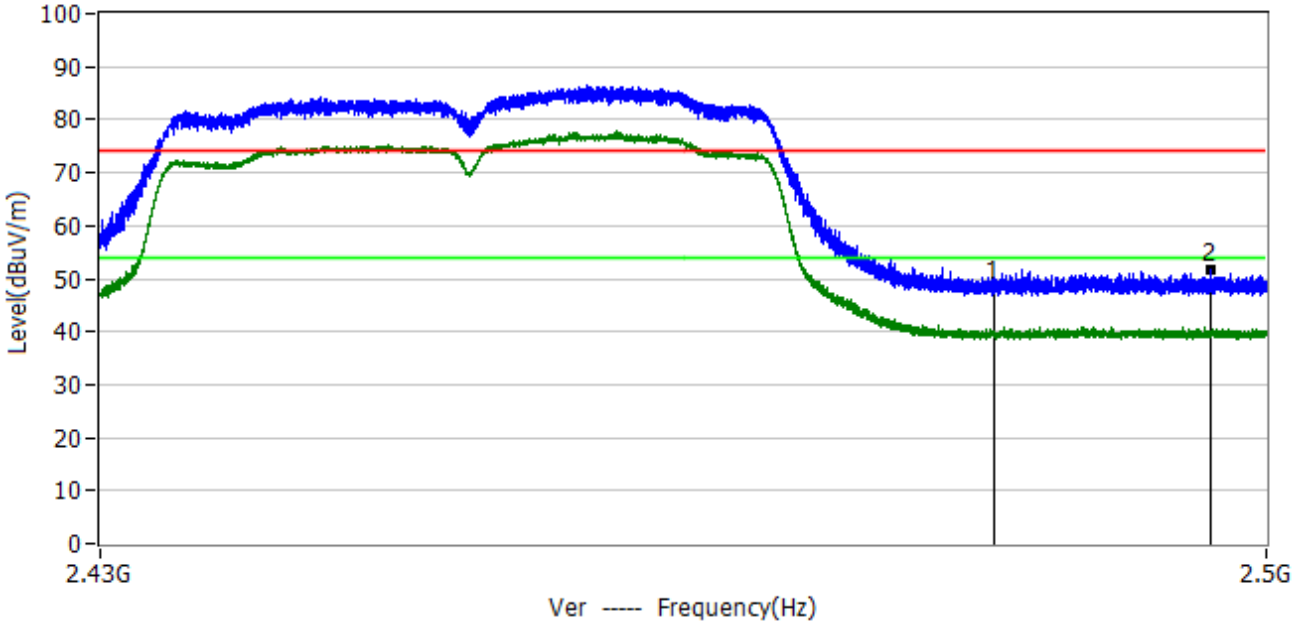
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3823GHz	19.57	33.97	53.54	74.00	-20.46	PK	Ver
2*	2.3900GHz	18.35	33.95	52.30	74.00	-21.70	PK	Ver

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 21.2℃
M/N: A181	Humidity: 63%RH
Test Voltage: Battery	Test Data: 2023-01-11
Test Mode: 802.11n40 2452	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	15.07	34.13	49.20	74.00	-24.80	PK	Hor
2*	2.4846GHz	18.69	34.13	52.82	74.00	-21.18	PK	Hor

Project: LGT22L018	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 21.2℃
M/N: A181	Humidity: 63%RH
Test Voltage: Battery	Test Data: 2023-01-11
Test Mode: 802.11n40 2452	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	14.37	34.13	48.50	74.00	-25.50	PK	Ver
2*	2.4966GHz	17.57	34.16	51.73	74.00	-22.27	PK	Ver

4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

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.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2432 MHz Upper Band Edge: 2442 to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP

The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.
Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.6 TEST RESULTS

For the measurement records, refer to the appendix I.

5. POWER SPECTRAL DENSITY TEST

5.1 LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤8 dBm (RBW ≥3KHz)	2400-2483.5	PASS

5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the 100 kHz ≥ RBW ≥3 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

5.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.6 TEST RESULTS

For the measurement records, refer to the appendix I.

6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	≥500KHz (6dB bandwidth)	2400-2483.5	PASS

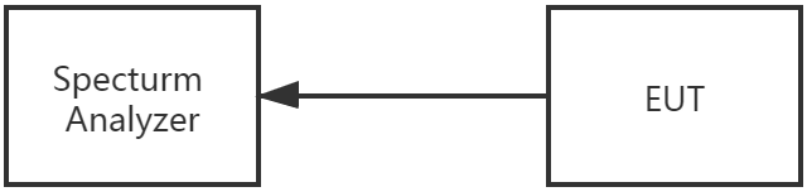
6.2 TEST PROCEDURE

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 above (i.e., RBW = 100 kHz, VBW≥3RBW, 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≥6 dB.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.6 TEST RESULTS

For the measurement records, refer to the appendix I.

7. PEAK OUTPUT POWER TEST

7.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW ≥ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ [3 × RBW].
c) Set span ≥ [3 × RBW].
d) Sweep time = auto couple.
e) Detector = peak.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

a) Set the RBW = 1 MHz.
b) Set the VBW ≥ [3 × RBW].
c) Set the span ≥ [1.5 × DTS bandwidth].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

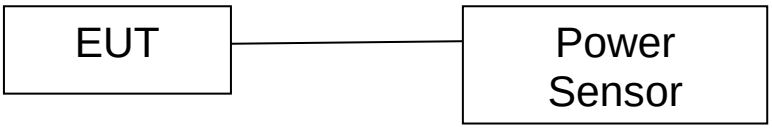
PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

7.6 TEST RESULTS

For the measurement records, refer to the appendix I.

8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device.

8.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.

APPENDIX I:TEST RESULTS

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	87.84	0.56	1.36
NVNT	b	2437	Ant1	87.86	0.56	1.36
NVNT	b	2462	Ant1	87.84	0.56	1.36
NVNT	g	2412	Ant1	56.8	2.46	8.55
NVNT	g	2437	Ant1	56.8	2.46	8.55
NVNT	g	2462	Ant1	56.8	2.46	8.55
NVNT	n20	2412	Ant1	56.69	2.46	8.58
NVNT	n20	2437	Ant1	56.69	2.46	8.58
NVNT	n20	2462	Ant1	56.72	2.46	8.62
NVNT	n40	2422	Ant1	46.67	3.31	12.99
NVNT	n40	2437	Ant1	46.67	3.31	12.99
NVNT	n40	2452	Ant1	46.67	3.31	12.99

Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

Duty Cycle NVNT b 2437MHz Ant1

Duty Cycle NVNT b 2462MHz Ant1

Duty Cycle NVNT g 2412MHz Ant1

Duty Cycle NVNT g 2437MHz Ant1

Duty Cycle NVNT g 2462MHz Ant1

Duty Cycle NVNT n20 2412MHz Ant1

Duty Cycle NVNT n20 2437MHz Ant1

Duty Cycle NVNT n20 2462MHz Ant1

Duty Cycle NVNT n40 2422MHz Ant1

Duty Cycle NVNT n40 2437MHz Ant1

Duty Cycle NVNT n40 2452MHz Ant1

Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.7	30	Pass
NVNT	b	2437	Ant1	18.77	30	Pass
NVNT	b	2462	Ant1	17.36	30	Pass
NVNT	g	2412	Ant1	21.55	30	Pass
NVNT	g	2437	Ant1	22.61	30	Pass
NVNT	g	2462	Ant1	21.34	30	Pass
NVNT	n20	2412	Ant1	21.57	30	Pass
NVNT	n20	2437	Ant1	22.25	30	Pass
NVNT	n20	2462	Ant1	21.49	30	Pass
NVNT	n40	2422	Ant1	21.81	30	Pass
NVNT	n40	2437	Ant1	22.94	30	Pass
NVNT	n40	2452	Ant1	21.7	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.13	0.5	Pass
NVNT	b	2437	Ant1	9.103	0.5	Pass
NVNT	b	2462	Ant1	10.037	0.5	Pass
NVNT	g	2412	Ant1	15.462	0.5	Pass
NVNT	g	2437	Ant1	15.378	0.5	Pass
NVNT	g	2462	Ant1	16.076	0.5	Pass
NVNT	n20	2412	Ant1	16.19	0.5	Pass
NVNT	n20	2437	Ant1	15.525	0.5	Pass
NVNT	n20	2462	Ant1	15.856	0.5	Pass
NVNT	n40	2422	Ant1	35.128	0.5	Pass
NVNT	n40	2437	Ant1	35.382	0.5	Pass
NVNT	n40	2452	Ant1	35.13	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

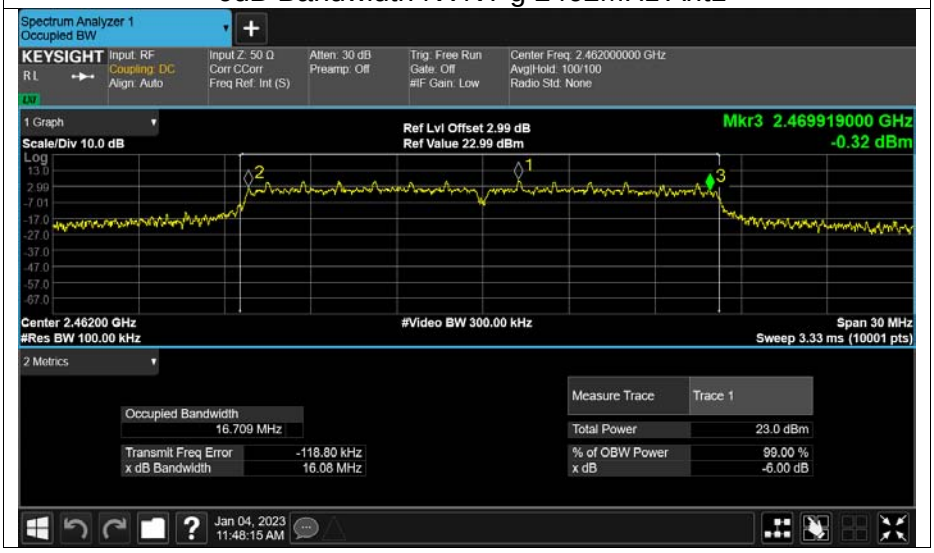
-6dB Bandwidth NVNT b 2437MHz Ant1

-6dB Bandwidth NVNT b 2462MHz Ant1

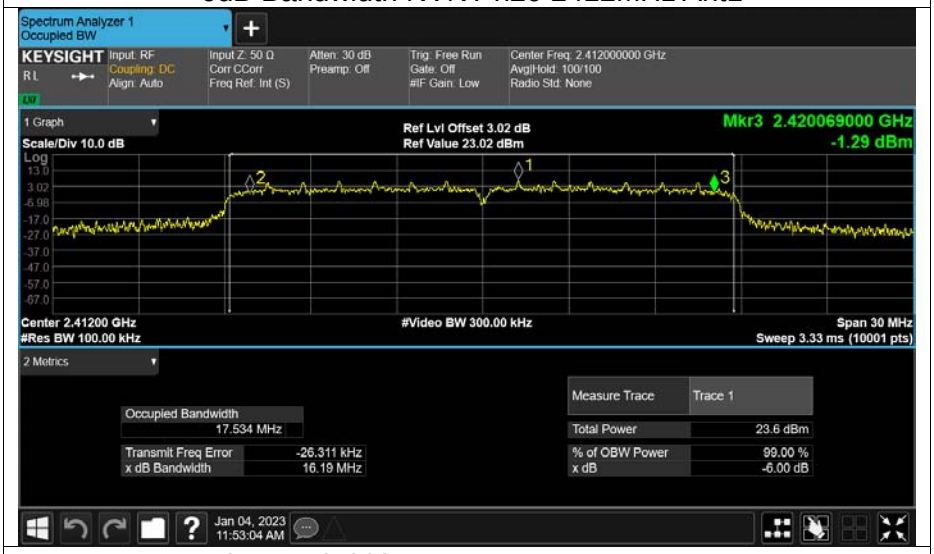
-6dB Bandwidth NVNT g 2412MHz Ant1

-6dB Bandwidth NVNT g 2437MHz Ant1

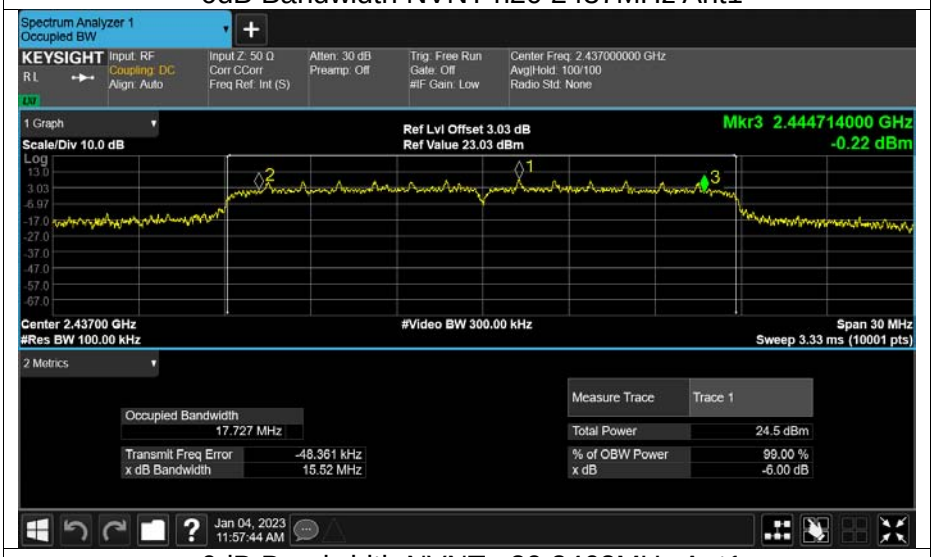
-6dB Bandwidth NVNT g 2462MHz Ant1



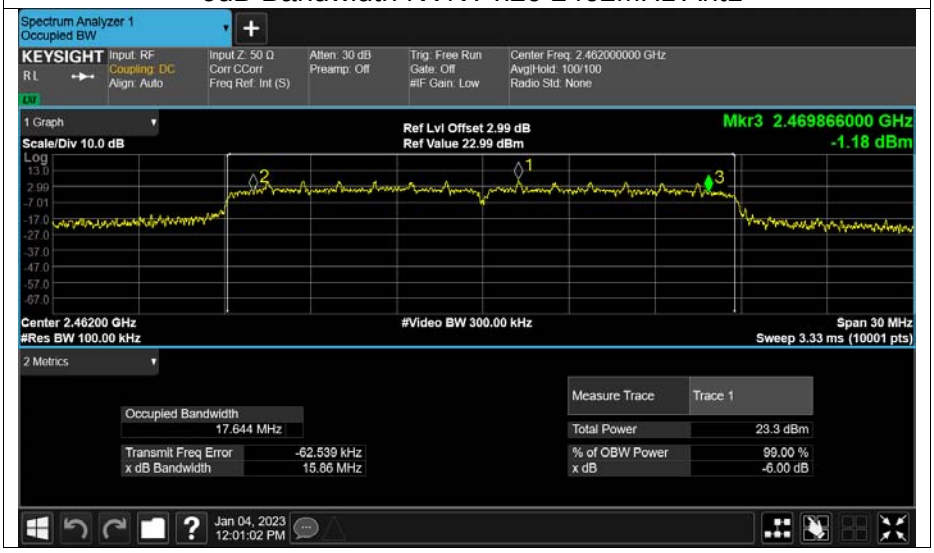
-6dB Bandwidth NVNT n20 2412MHz Ant1



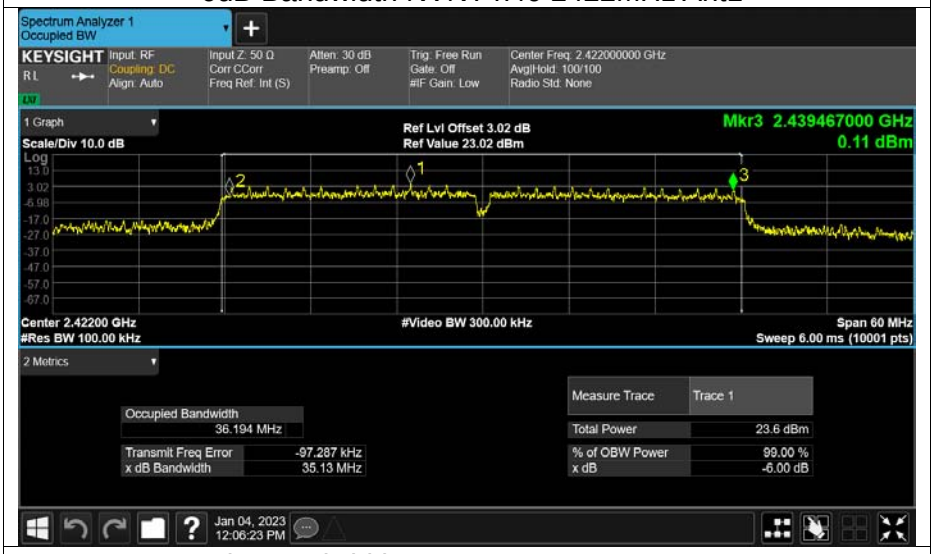
-6dB Bandwidth NVNT n20 2437MHz Ant1



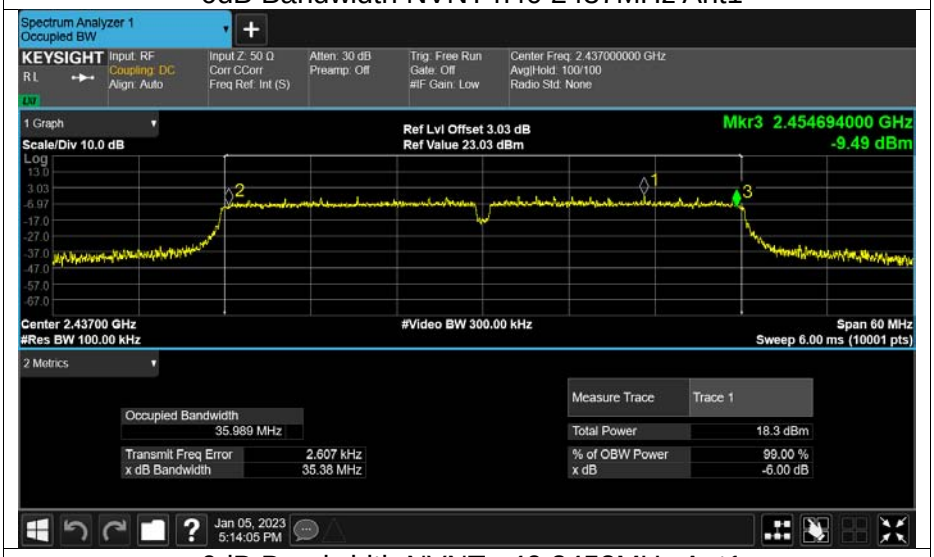
-6dB Bandwidth NVNT n20 2462MHz Ant1



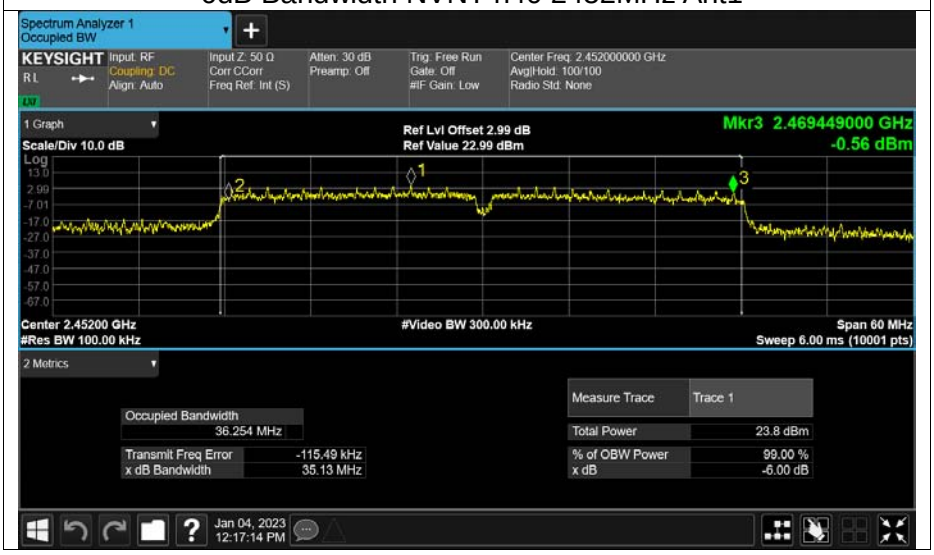
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



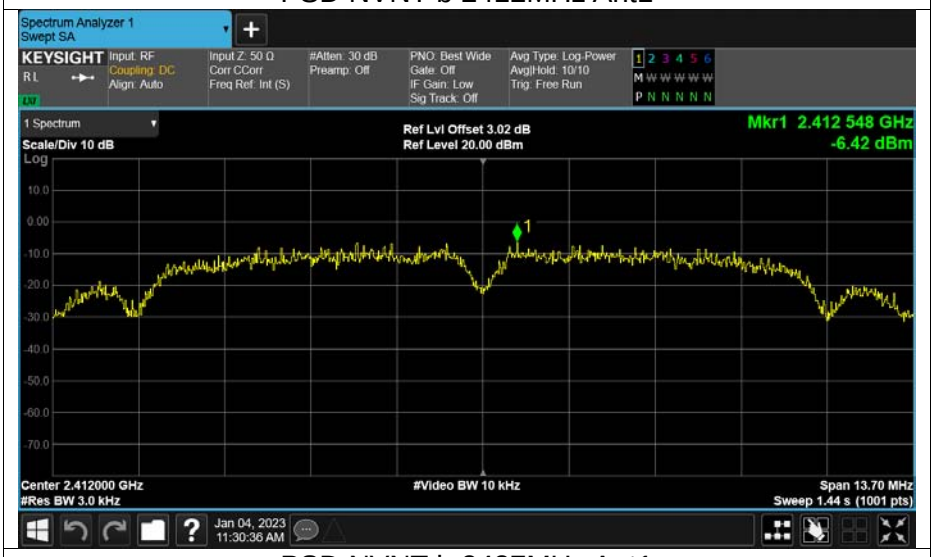
-6dB Bandwidth NVNT n40 2452MHz Ant1



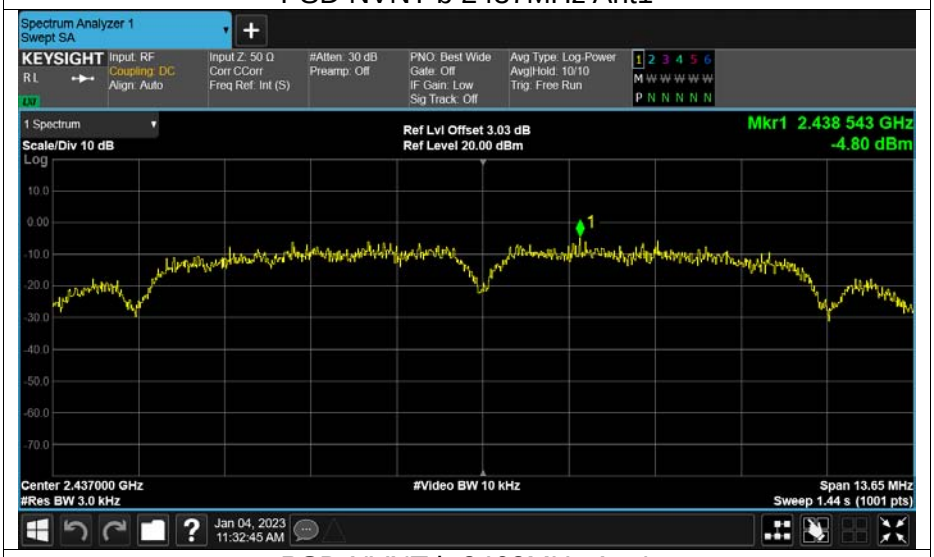
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-6.42	8	Pass
NVNT	b	2437	Ant1	-4.8	8	Pass
NVNT	b	2462	Ant1	-7.16	8	Pass
NVNT	g	2412	Ant1	-8.77	8	Pass
NVNT	g	2437	Ant1	-8.34	8	Pass
NVNT	g	2462	Ant1	-9.67	8	Pass
NVNT	n20	2412	Ant1	-9.26	8	Pass
NVNT	n20	2437	Ant1	-8.92	8	Pass
NVNT	n20	2462	Ant1	-9.4	8	Pass
NVNT	n40	2422	Ant1	-11.24	8	Pass
NVNT	n40	2437	Ant1	-10.49	8	Pass
NVNT	n40	2452	Ant1	-10.82	8	Pass

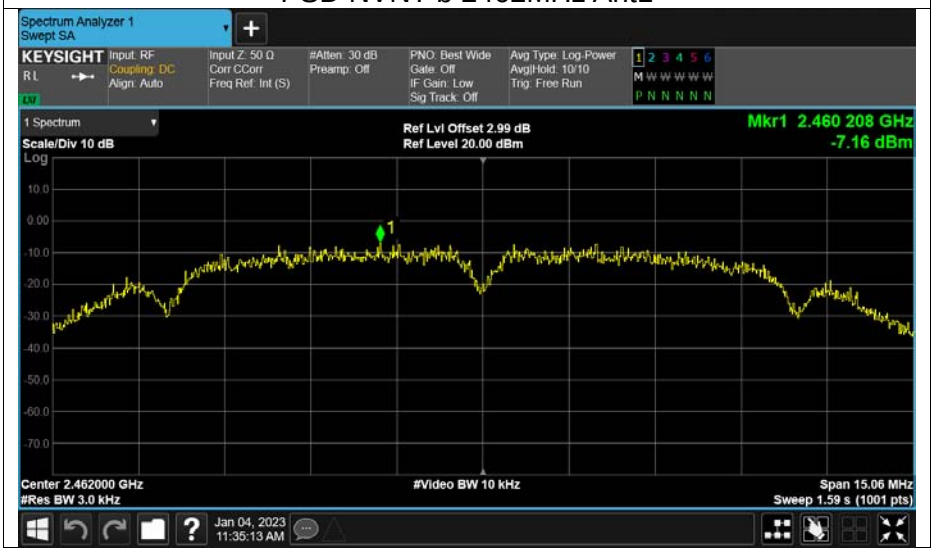
Test Graphs
PSD NVNT b 2412MHz Ant1



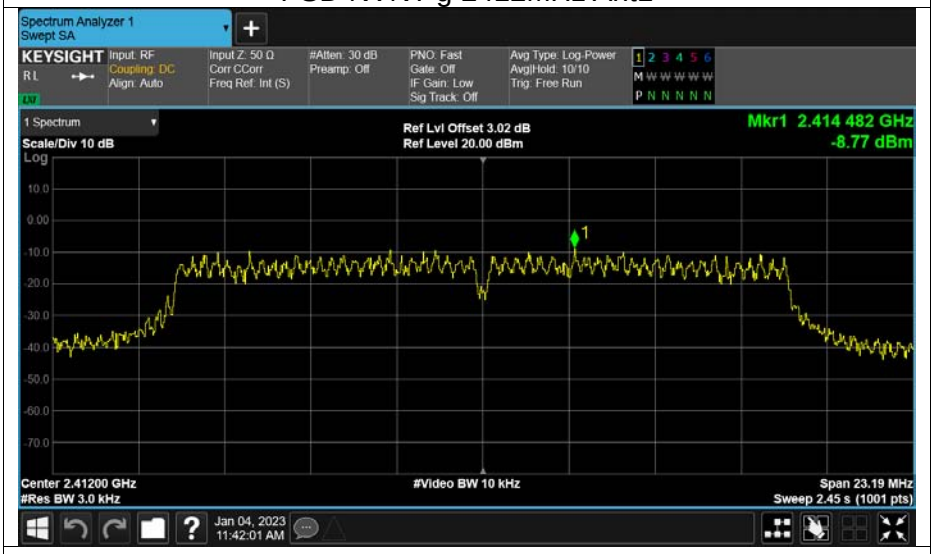
PSD NVNT b 2437MHz Ant1



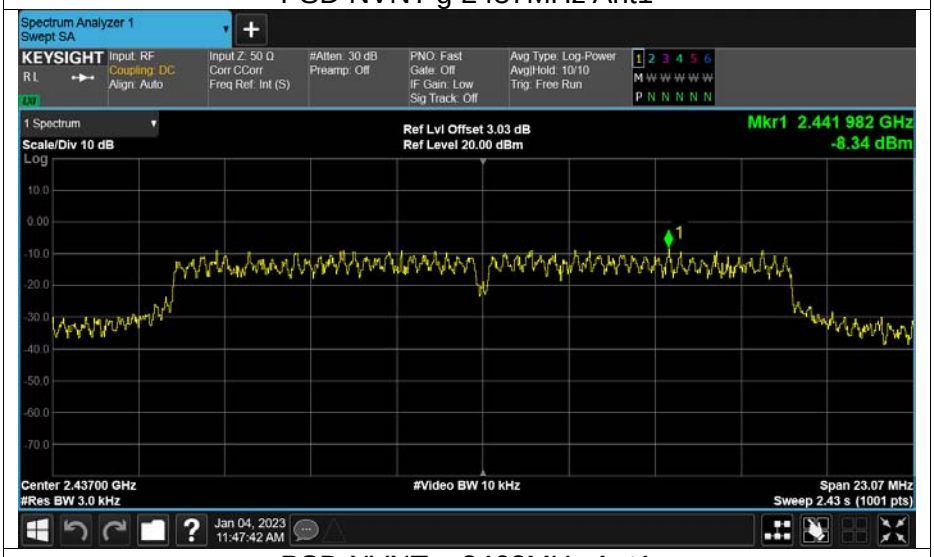
PSD NVNT b 2462MHz Ant1



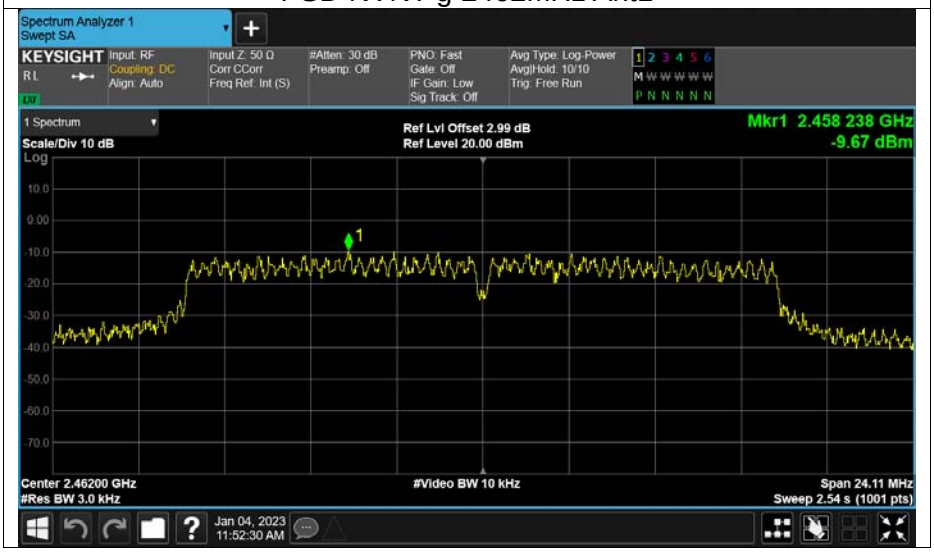
PSD NVNT g 2412MHz Ant1



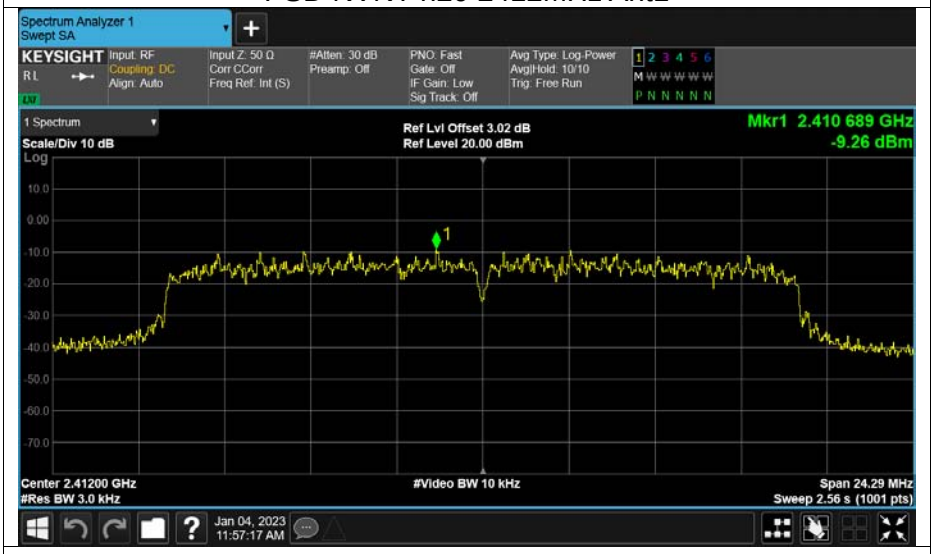
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

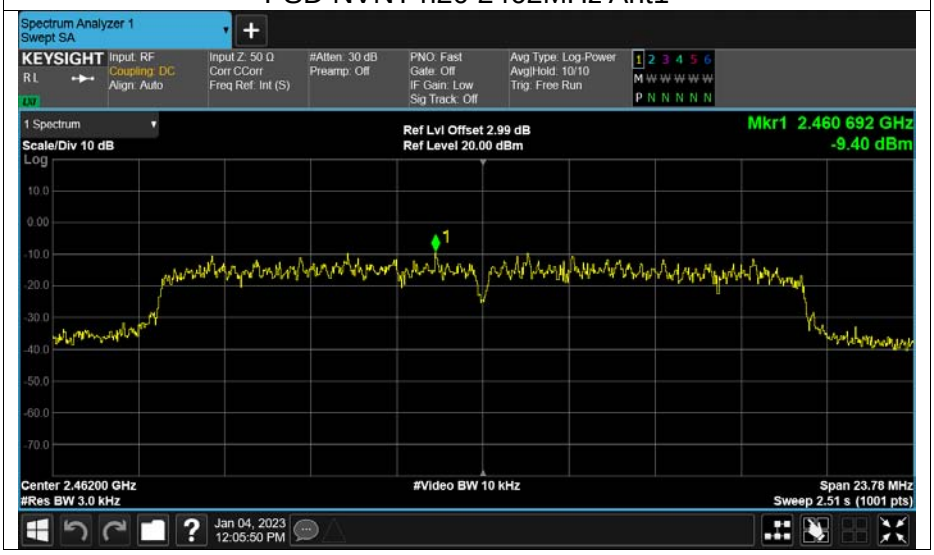


PSD NVNT n20 2412MHz Ant1

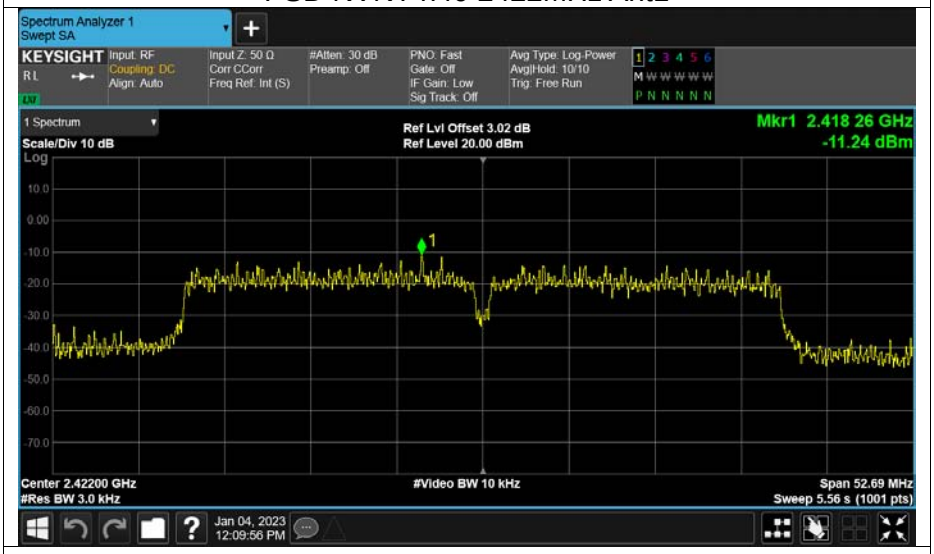


PSD NVNT n20 2437MHz Ant1

PSD NVNT n20 2462MHz Ant1

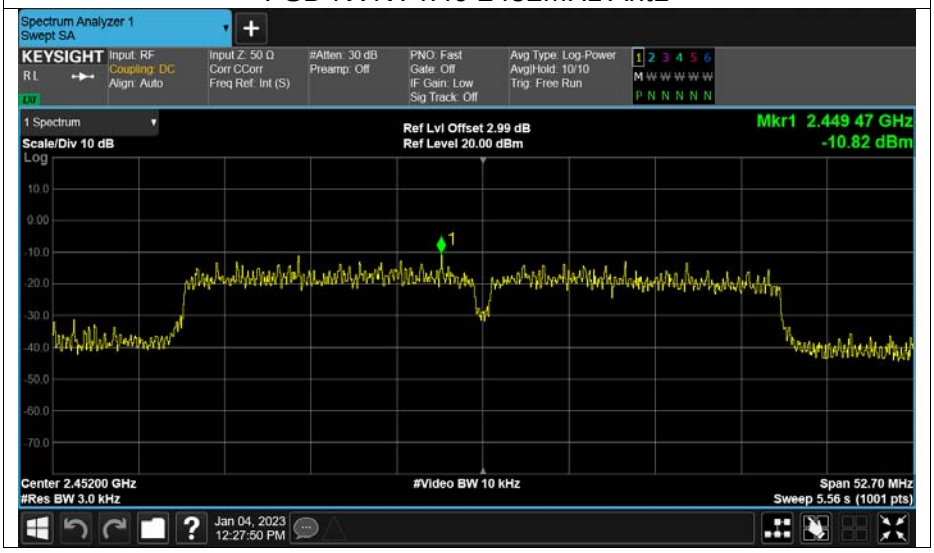


PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1

PSD NVNT n40 2452MHz Ant1



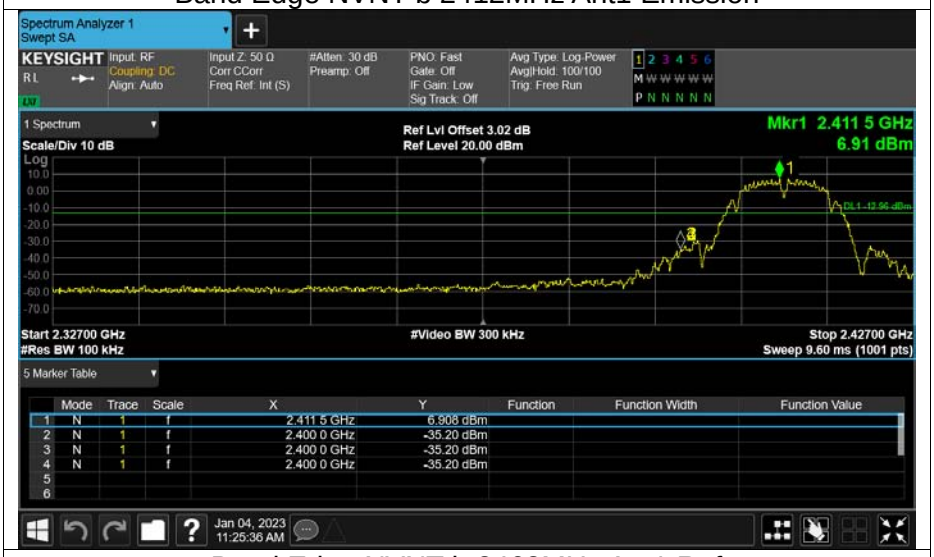
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.24	-20	Pass
NVNT	b	2462	Ant1	-56.87	-20	Pass
NVNT	g	2412	Ant1	-25.93	-20	Pass
NVNT	g	2462	Ant1	-36.21	-20	Pass
NVNT	n20	2412	Ant1	-25.84	-20	Pass
NVNT	n20	2462	Ant1	-36.15	-20	Pass
NVNT	n40	2422	Ant1	-22.49	-20	Pass
NVNT	n40	2452	Ant1	-26.1	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref

Band Edge NVNT b 2462MHz Ant1 Emission

Band Edge NVNT g 2412MHz Ant1 Ref

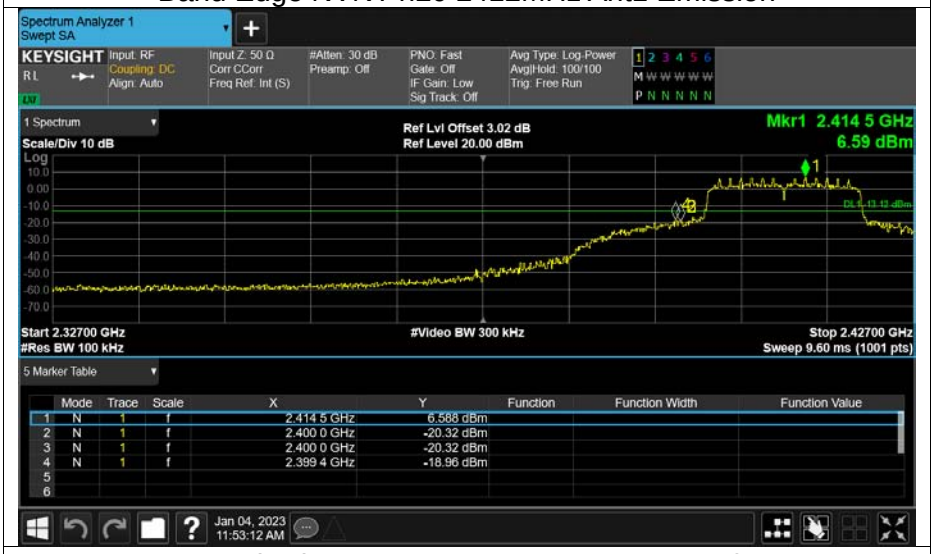
Band Edge NVNT g 2412MHz Ant1 Emission

Band Edge NVNT g 2462MHz Ant1 Ref

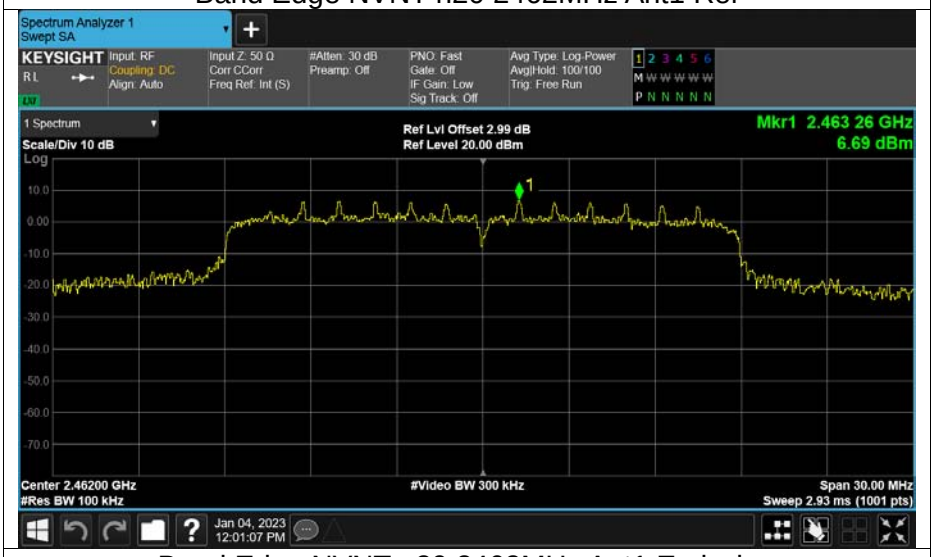
Band Edge NVNT g 2462MHz Ant1 Emission

Band Edge NVNT n20 2412MHz Ant1 Ref

Band Edge NVNT n20 2412MHz Ant1 Emission

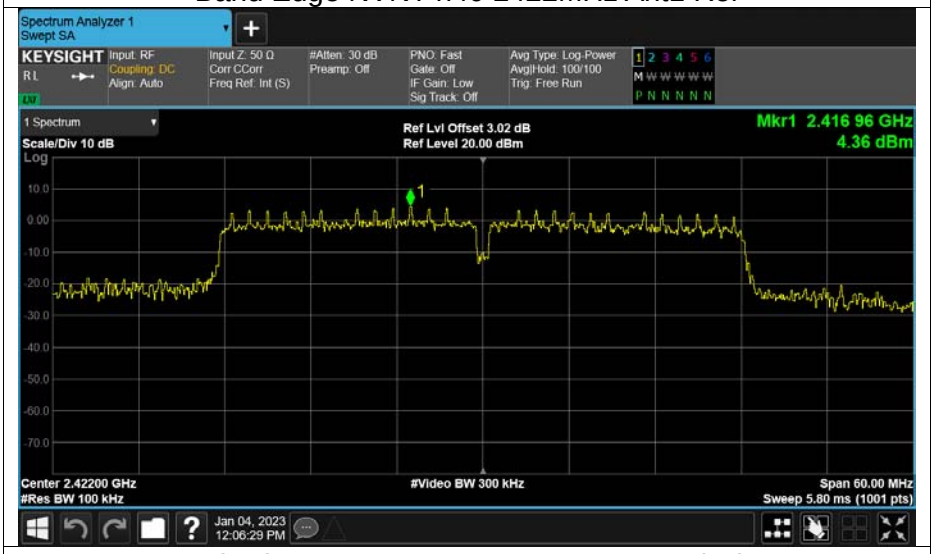


Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission

Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission

Band Edge NVNT n40 2452MHz Ant1 Ref

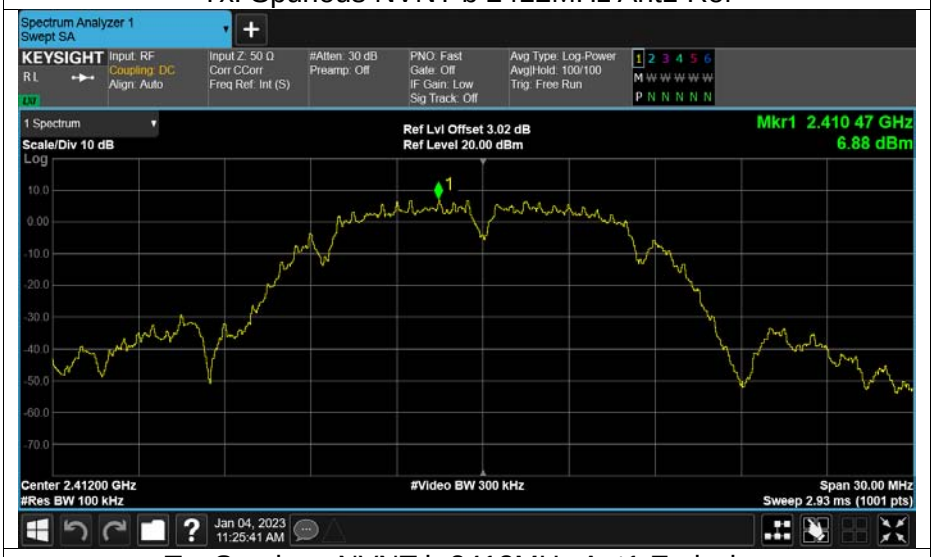
Band Edge NVNT n40 2452MHz Ant1 Emission

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.53	-20	Pass
NVNT	b	2437	Ant1	-45.75	-20	Pass
NVNT	b	2462	Ant1	-41.23	-20	Pass
NVNT	g	2412	Ant1	-49.48	-20	Pass
NVNT	g	2437	Ant1	-28.82	-20	Pass
NVNT	g	2462	Ant1	-28.86	-20	Pass
NVNT	n20	2412	Ant1	-48.44	-20	Pass
NVNT	n20	2437	Ant1	-43.6	-20	Pass
NVNT	n20	2462	Ant1	-41.43	-20	Pass
NVNT	n40	2422	Ant1	-46.39	-20	Pass
NVNT	n40	2437	Ant1	-44.01	-20	Pass
NVNT	n40	2452	Ant1	-40.29	-20	Pass

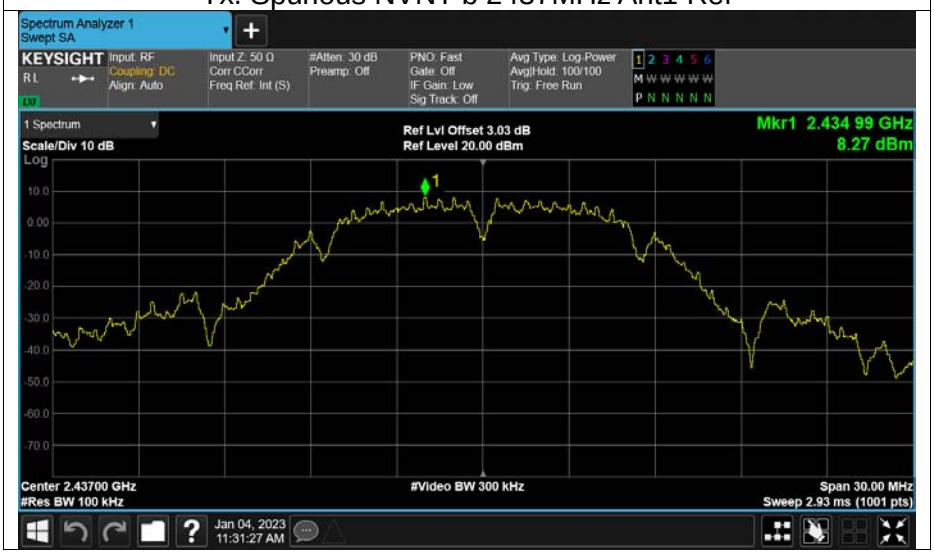
Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



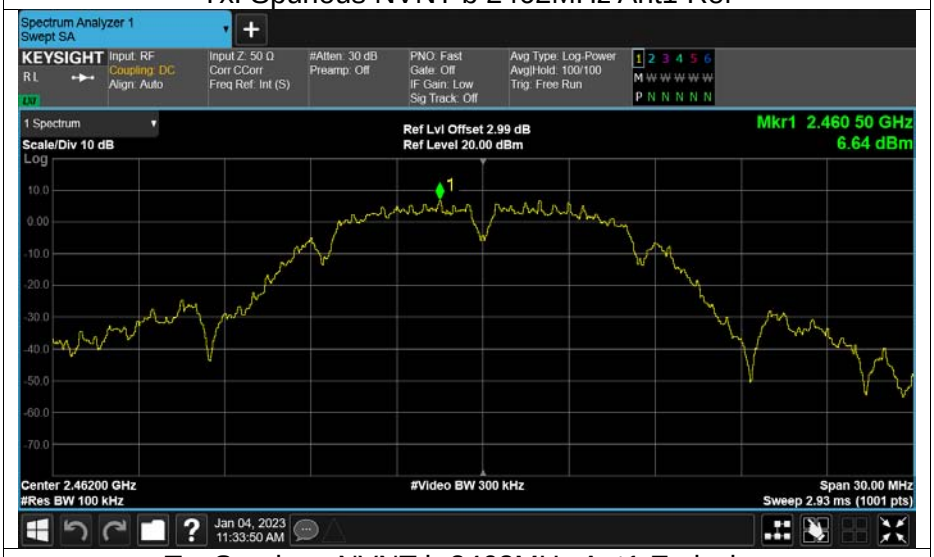
Tx. Spurious NVNT b 2412MHz Ant1 Emission

Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission

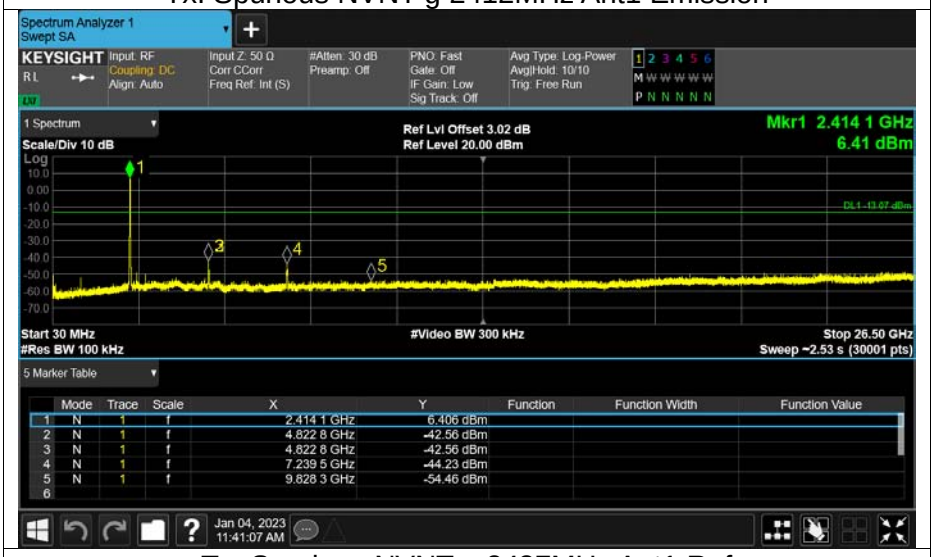
Tx. Spurious NVNT b 2462MHz Ant1 Ref



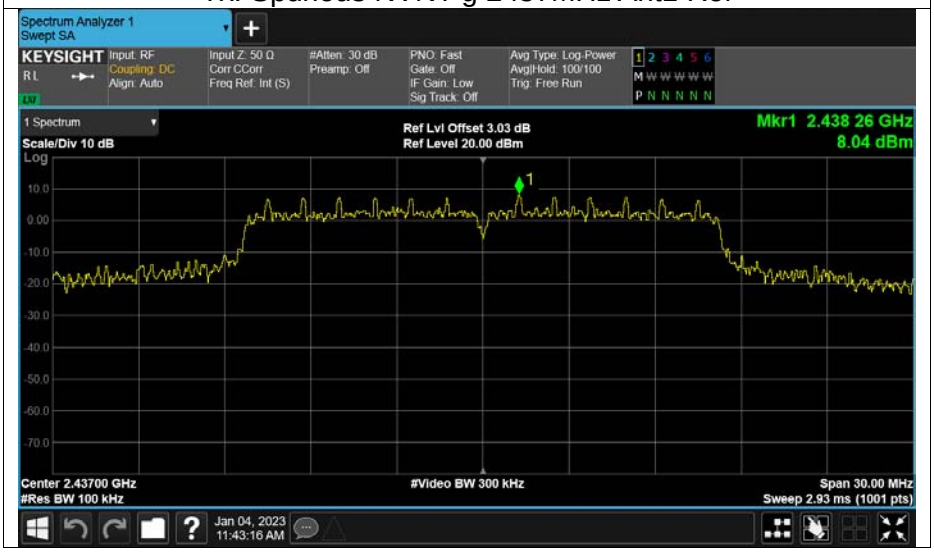
Tx. Spurious NVNT b 2462MHz Ant1 Emission

Tx. Spurious NVNT g 2412MHz Ant1 Ref

Tx. Spurious NVNT g 2412MHz Ant1 Emission

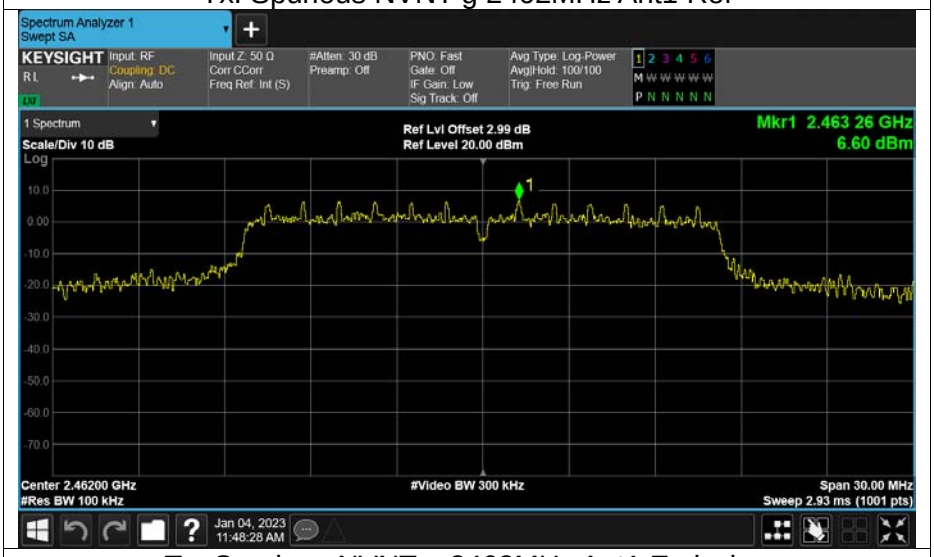


Tx. Spurious NVNT g 2437MHz Ant1 Ref



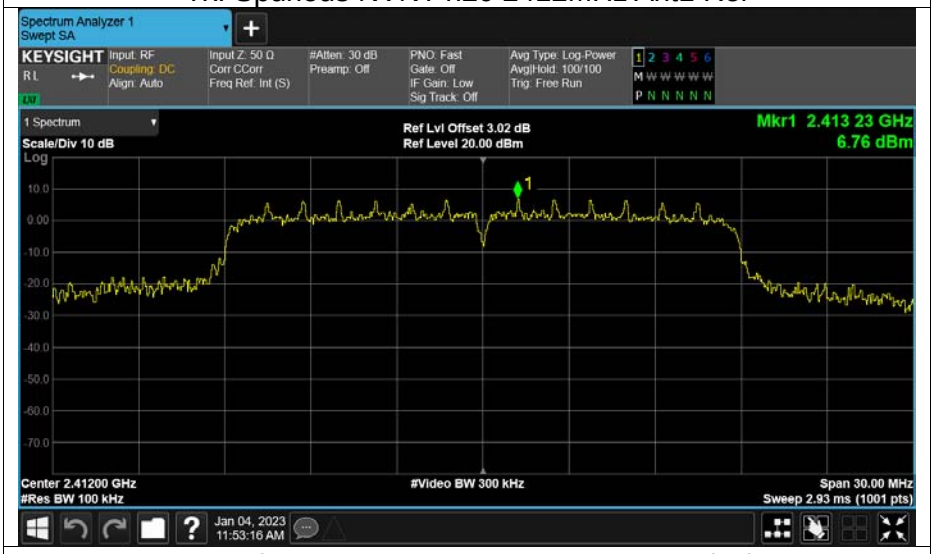
Tx. Spurious NVNT g 2437MHz Ant1 Emission

Tx. Spurious NVNT g 2462MHz Ant1 Ref



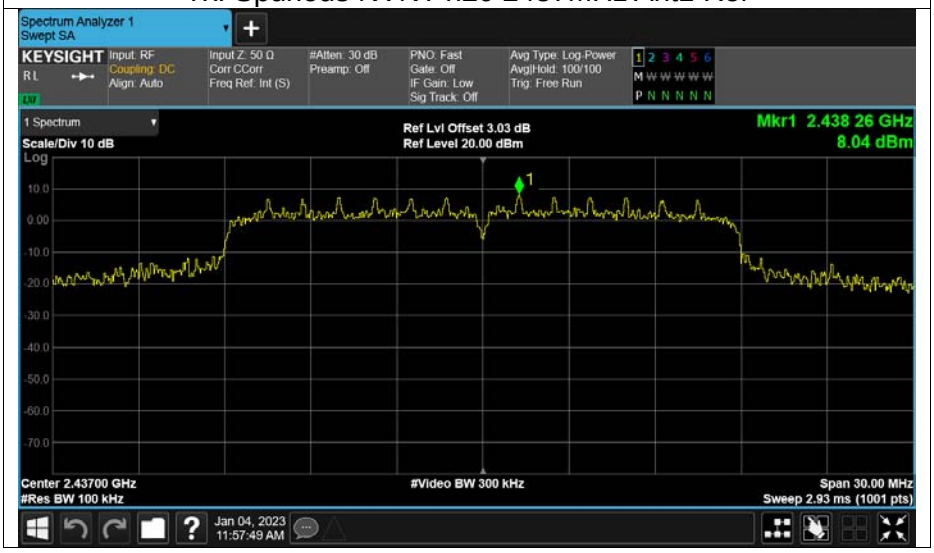
Tx. Spurious NVNT g 2462MHz Ant1 Emission

Tx. Spurious NVNT n20 2412MHz Ant1 Ref



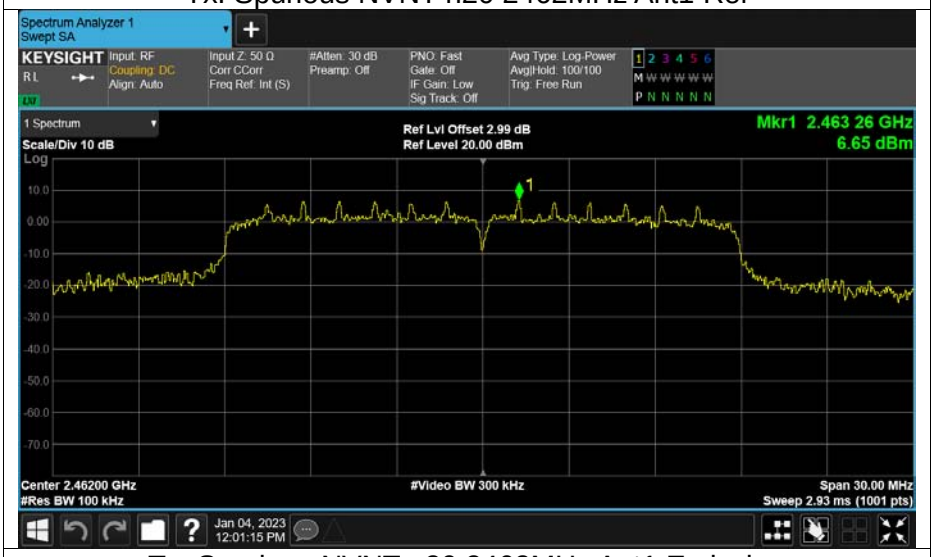
Tx. Spurious NVNT n20 2412MHz Ant1 Emission

Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission

Tx. Spurious NVNT n20 2462MHz Ant1 Ref

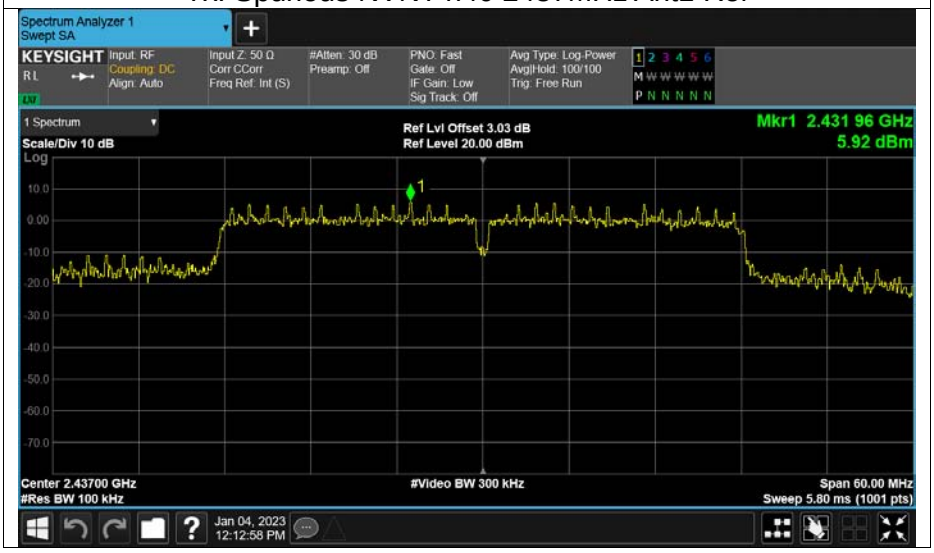


Tx. Spurious NVNT n20 2462MHz Ant1 Emission

Tx. Spurious NVNT n40 2422MHz Ant1 Ref

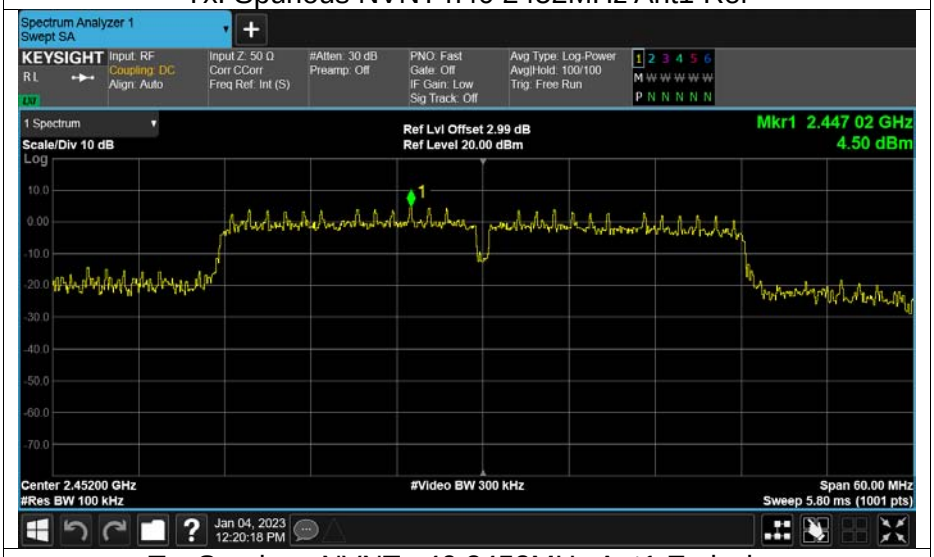
Tx. Spurious NVNT n40 2422MHz Ant1 Emission

Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission

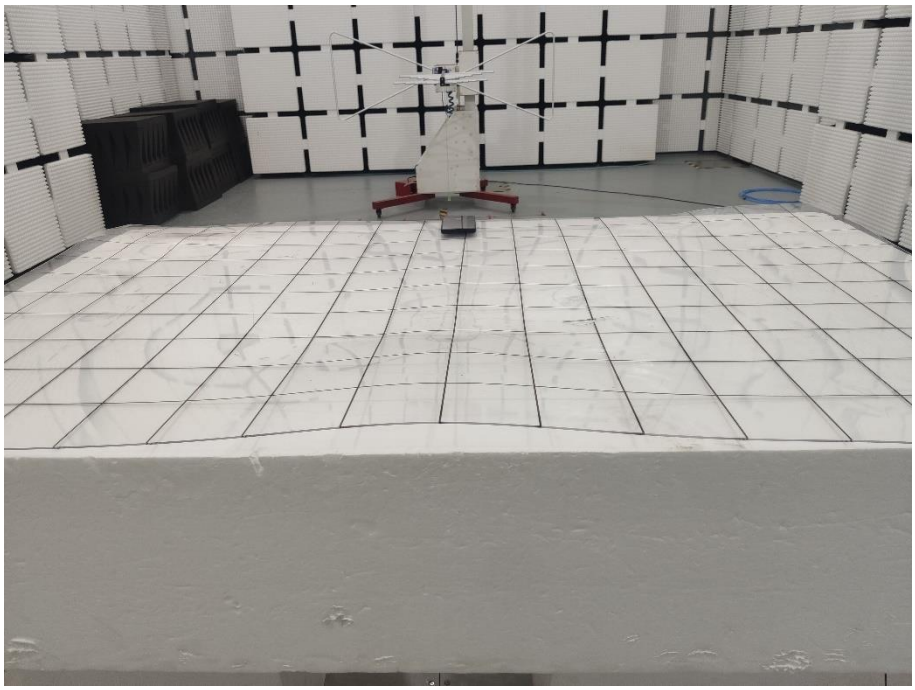
Tx. Spurious NVNT n40 2452MHz Ant1 Ref



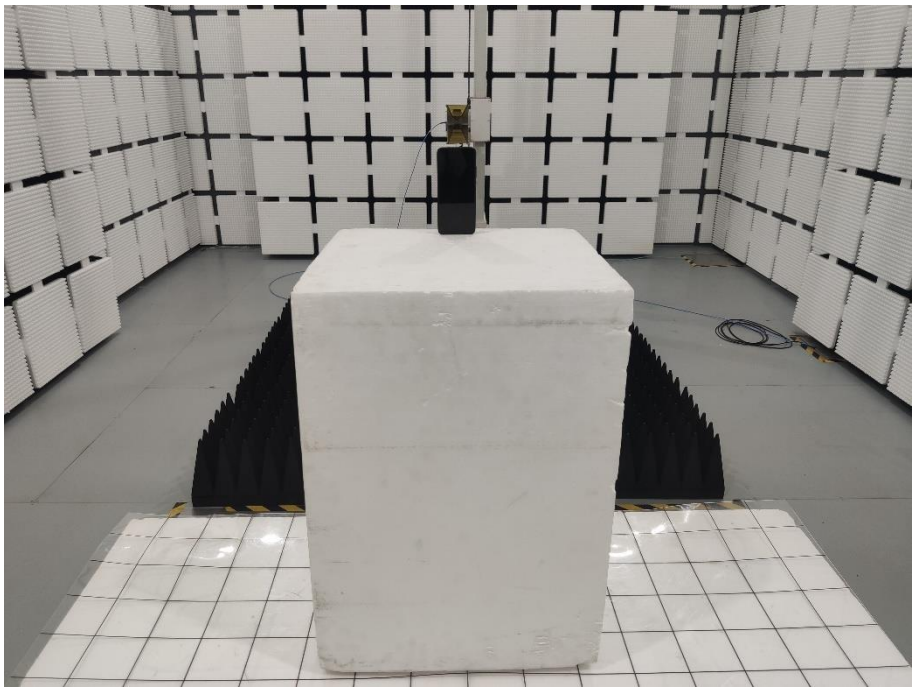
Tx. Spurious NVNT n40 2452MHz Ant1 Emission

APPENDIX II:PHOTOS OF TEST SETUP

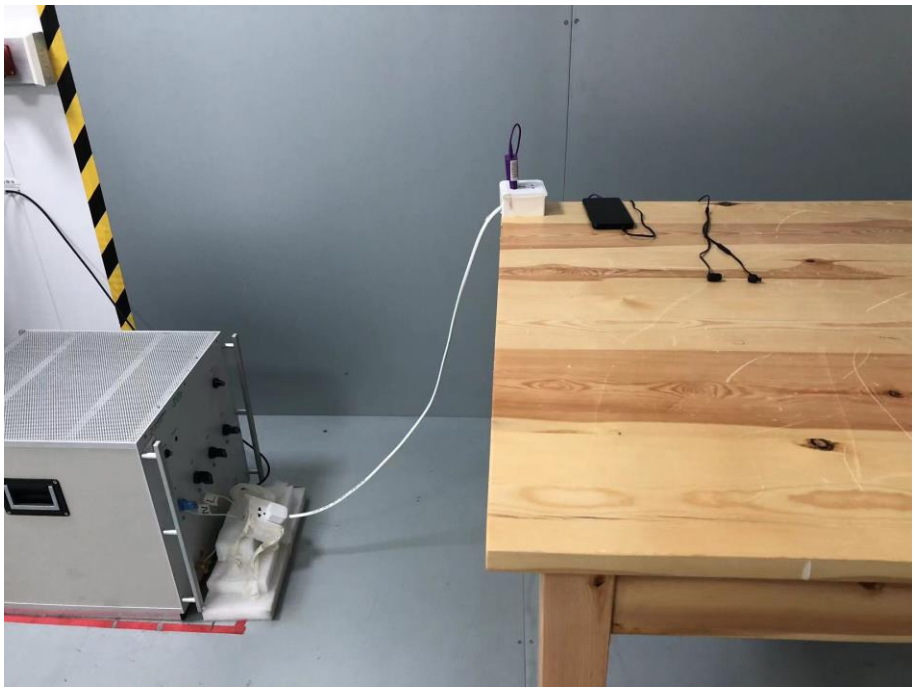
Radiated Spurious Emission Test Setup Photo - Below 1GHz



Radiated Spurious Emission Test Setup Photo - Above 1GHz



Conducted Emission Test Setup Photo



※※※※※END OF THE REPORT※※※※※