




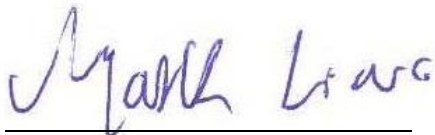
# FCC RADIO TEST REPORT

Applicant : Elo Touch Solutions, Inc.  
Address : 670 N. McCarthy Blvd., Suite 100 Milpitas,  
CA 95035 USA  
Equipment : Touch All-In-One Computer  
Model No. : ESY15I1D-C  
Trade Name : Elo or   
FCC ID. : RBWESY15I1DC

**I HEREBY CERTIFY THAT :**

The sample was received on Jun. 28, 2021 and the testing was completed on Sep. 11, 2021 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:



Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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# 1. Summary of Test Procedure and Test Results

## 1.1 Applicable Standards

**ANSI C63.10:2013**

**FCC Rules and Regulations Part 15 Subpart C §15.247**

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	PASS
15.207	. AC Power Line Conducted Emission	PASS
15.209 15.205	. Radiated Spurious Emission	PASS
15.247(d)	. Conducted Spurious Emission	PASS
15.247(a)(1)	. Channel Carrier Frequencies Separation	PASS
15.247(a)(1)	. 20dB Bandwidth	PASS
15.247(a)(1)	. Dwell Time	PASS
15.247(b)	. Number of Hopping Channels	PASS
15.247(b)	. Peak Output Power Measurement Data	PASS
2.1091	. Radio Frequency Exposure	PASS

\* The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement.

\*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(21050212-TEFV01).



## 2. Test Configuration of Equipment under Test

### 2.1 Feature of Equipment under Test

Frequency Range	BT / BLE: 2402MHz~2480MHz 802.11b/g/n: 2412MHz~2462MHz 802.11a/n/ac: 5180MHz~5240MHz, 5260MHz~5320MHz, 5500MHz~5720MHz, 5745MHz~5825MHz
Modulation Type	BT: GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK WLAN: 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	DSSS, OFDM, FHSS, DTS
Data Rate	BT: GFSK: 1Mbps, $\pi/4$ -DQPSK: 2Mbps, 8DPSK: 3Mbps BLE: GFSK: 1Mbps WLAN: 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	Slot Antenna
Antenna Gain	For BT / BLE: 2402-2480MHz: ANT A: 2.91dBi For WLAN: 2412MHz~2462MHz: ANT A: 2.91dBi, ANT B: 3.91dBi 5180MHz~5240MHz: ANT A: 2.52dBi, ANT B: 2.01dBi 5260MHz~5320MHz: ANT A: 2.52dBi, ANT B: 2.01dBi 5500MHz~5720MHz: ANT A: 2.68dBi, ANT B: 2.56dBi 5745MHz~5825MHz: ANT A: 1.97dBi, ANT B: 1.92dBi
Adapter	Brand: Delta Electronics Inc. Model: ADP-65JH HB
Power Cord	Brand: HONHLIN Model:HL-013+HL-052
I/O Hub	Brand: Elo Model: KIT, USBC-IO-DONGLE-POWER-BRICK
Firmware Number	SWEP_sdm660la302_01.061.02.p_01
Serial Number	KEX-DLCP07

Note:

1. EUT support TPC Function.
2. WLAN and BT can simultaneously transmission.
3. EUT support Client Mode without Radar Detection.
4. For more details, please refer to the User's manual of the EUT.



### 2.2 Carrier Frequency of Channes

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
<b>*00</b>	<b>2402</b>	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	<b>*78</b>	<b>2480</b>
19	2421	<b>*39</b>	<b>2441</b>	59	2461	---	---

Note: Channels remarked \* are selected to perform test.



### 2.3 Test Mode & Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10
- b. The complete test system included Notebook and EUT for RF test.
- c. An executive program, " QRCT ver. 4.0.00129.0" under Windows OS system was executed to transmit and receive data via Bluetooth.
- d. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	GFSK (1Mbps)
2	$\pi/4$ -DQPSK (2Mbps)
3	8DPSK (3Mbps)
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiation Emissions (9KHz ~30MHz & 30MHz ~ 1GHz)	
Test Mode	Operating Description
1	GFSK (1Mbps)
2	$\pi/4$ -DQPSK (2Mbps)
3	8DPSK (3Mbps)
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	GFSK (1Mbps)
2	$\pi/4$ -DQPSK (2Mbps)
3	8DPSK (3Mbps)
caused "Test Mode 1, 3" generated the worst case, they were reported as the final data.	

Modulation Type	TX CONFIGURATION
GFSK	1TX
$\pi/4$ -DQPSK	1TX
8DPSK	1TX





## 2.4 Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
Micro USB Cable	kolin	EX-DLCP07	1m / NS	N/A



## 2.5 General Information of Test

Test Site	<b>Cerpass Technology Corporation Test Laboratory</b> Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2021/07/25~2021/09/11	22.8~23.7°C / 41~54%	Nick Guan
Radiated Emissions	3M02-NK	2021/07/22~2021/08/20	23~24°C / 42~44%	Nick Guan
AC Power Line Conducted Emission	CON01-NK	2021/08/28	27°C / 49%	Nick Guan

## 2.6 Measurement Uncertainty

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.63dB
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.6dB
Radiated Spurious Emission(1GHz~40GHz)	±6.6dB
6dB Bandwidth	±4.4%
26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±1.8dB
Duty Cycle	±1.5%



### 3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	369	2021/04/26	2022/04/25
Active Loop Antenna	EMCO	6507	40855	2021/06/10	2022/06/09
Horn Antenna	EMCO	3115	31601	2020/10/16	2021/10/15
Horn Antenna	EMCO	3116	31974	2020/09/24	2021/09/23
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2021/06/30	2022/06/29
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2021/07/14	2022/07/13
Preamplifier	EM Electronics corp.	EM330	60658	2020/10/20	2021/10/19
Preamplifier	EM Electronics corp.	EM330	60660	2021/03/18	2022/03/17
Preamplifier	Agilent	8449B	3008A01954	2021/03/22	2022/03/21
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2020/11/06	2021/11/05
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2021/04/12	2022/04/11
Cable-0.5m(1G-18G)	EMEC	EM104-SMSM-0.5M	CCE1354	2021/05/06	2022/05/05
Cable-3m(1G-18G)	EMEC	EM104-SMSM-3M	CCE1355	2021/05/06	2022/05/05
Cable-8m(1G-18G)	EMEC	EM104-SMSM-8M	CCE1356	2021/05/06	2022/05/05
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2021/04/03	2022/04/02
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2021/04/09	2022/04/08
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50314	2021/04/08	2022/04/07
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130605	2020/09/18	2021/09/17
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2021/07/14	2022/07/13
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2020/12/25	2021/12/24
Attenuator	KEYSIGHT	8491B	MY39250703	2021/04/09	2022/04/08
Power Meter	Anritsu	ML2495A	1224005	2021/04/14	2022/04/13
Power Sensor	Anritsu	MA2411B	1207295	2021/04/14	2022/04/13



Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Serial No</b>	<b>Calibration Date</b>	<b>Valid Date</b>
EMI Receiver	ROHDE & SCHWARZ	ESCI	100821	2020/09/11	2021/09/10
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-516	2020/09/26	2021/09/25
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101933	2020/09/17	2021/09/16
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130605	2020/09/18	2021/09/17
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



## 4. Antenna Requirements

### 4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 4.2 Antenna Construction and Directional Gain

Antenna Type	Slot Antenna
Antenna Gain	2.91Bi



## 5. Test of AC Power Line Conducted Emission

### 5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

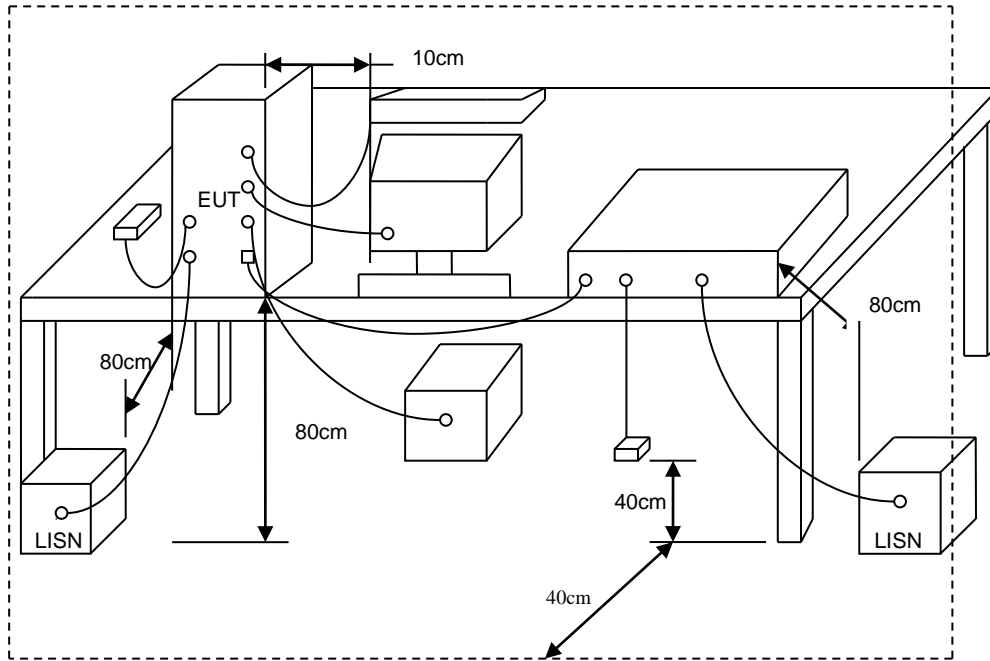
\*Decreases with the logarithm of the frequency.

### 5.2 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



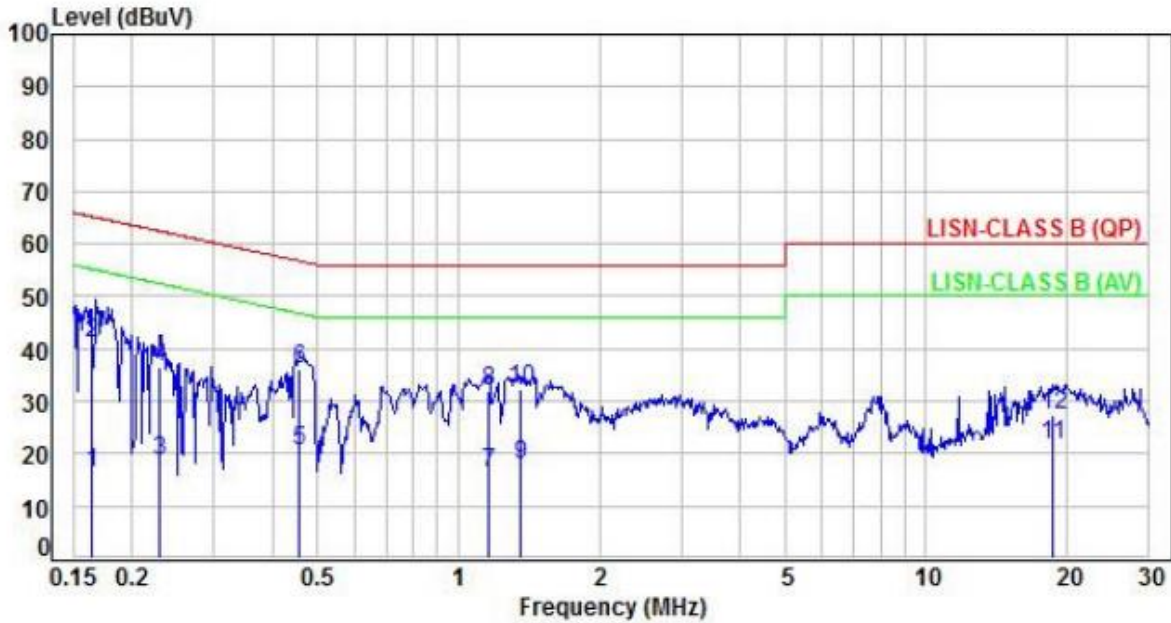
### 5.3 Typical Test Setup





5.4 Test Result and Data

Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 1		:



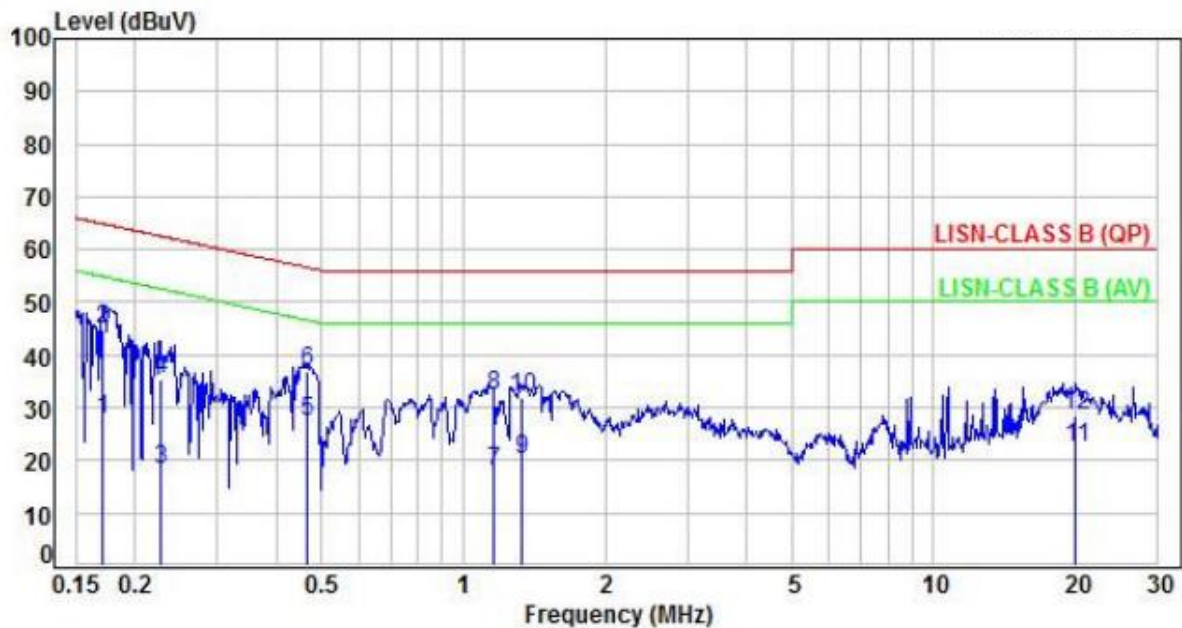
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.96	6.35	16.31	55.23	-38.92	Average	P
2	0.16	9.96	30.96	40.92	65.23	-24.31	QP	P
3	0.23	9.96	8.58	18.54	52.50	-33.96	Average	P
4	0.23	9.96	26.37	36.33	62.50	-26.17	QP	P
5	0.45	9.97	10.45	20.42	46.80	-26.38	Average	P
6	0.45	9.97	26.15	36.12	56.80	-20.68	QP	P
7	1.16	10.05	6.18	16.23	46.00	-29.77	Average	P
8	1.16	10.05	21.83	31.88	56.00	-24.12	QP	P
9	1.36	10.06	7.91	17.97	46.00	-28.03	Average	P
10	1.36	10.06	22.43	32.49	56.00	-23.51	QP	P
11	18.69	11.21	10.35	21.56	50.00	-28.44	Average	P
12	18.69	11.21	16.24	27.45	60.00	-32.55	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss





Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.17	9.97	17.70	27.67	54.93	-27.26	Average	P
2	0.17	9.97	35.02	44.99	64.93	-19.94	QP	P
3	0.23	9.97	8.10	18.07	52.59	-34.52	Average	P
4	0.23	9.97	25.28	35.25	62.59	-27.34	QP	P
5	0.46	9.98	17.28	27.26	46.63	-19.37	Average	P
6	0.46	9.98	27.07	37.05	56.63	-19.58	QP	P
7	1.16	10.04	7.92	17.96	46.00	-28.04	Average	P
8	1.16	10.04	22.33	32.37	56.00	-23.63	QP	P
9	1.33	10.05	9.98	20.03	46.00	-25.97	Average	P
10	1.33	10.05	22.04	32.09	56.00	-23.91	QP	P
11	20.08	11.10	11.28	22.38	50.00	-27.62	Average	P
12	20.08	11.10	17.30	28.40	60.00	-31.60	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



## 6. Test of Radiated Spurious Emission

### 6.1 Test Limit

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. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/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



## 6.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

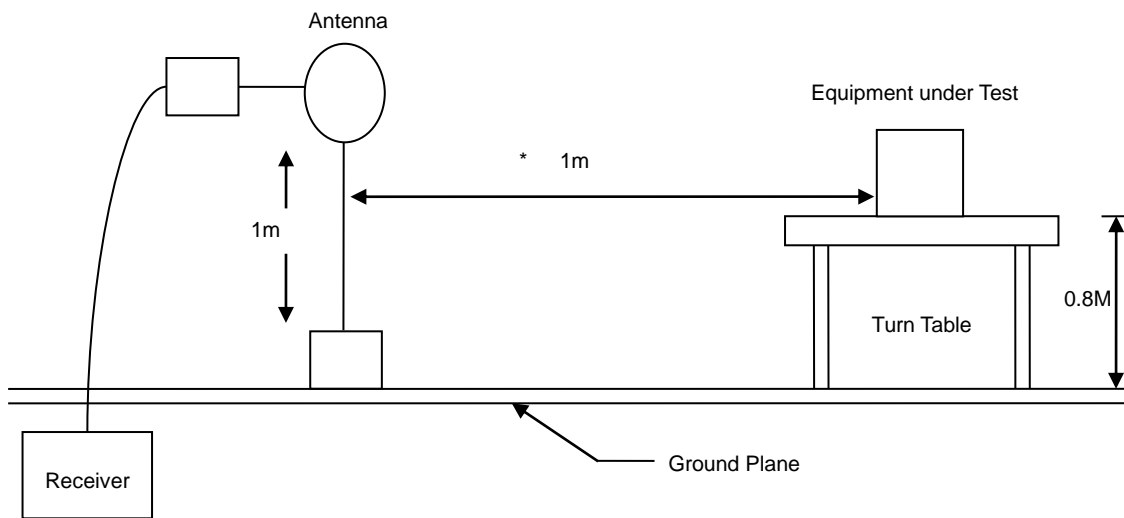
Note:

1. The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.  
(Y-AXIS is the worst.)
2. Due to the test software function limit the operation band setting(200dBuV/m).  
There's no corresponding limitation in the actual test item.

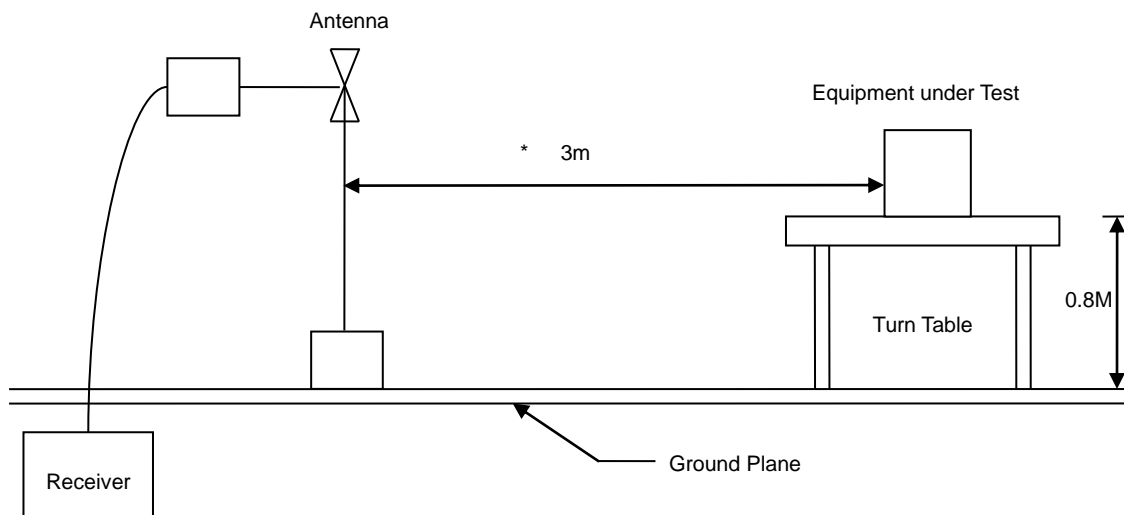


### 6.3 Typical Test Setup

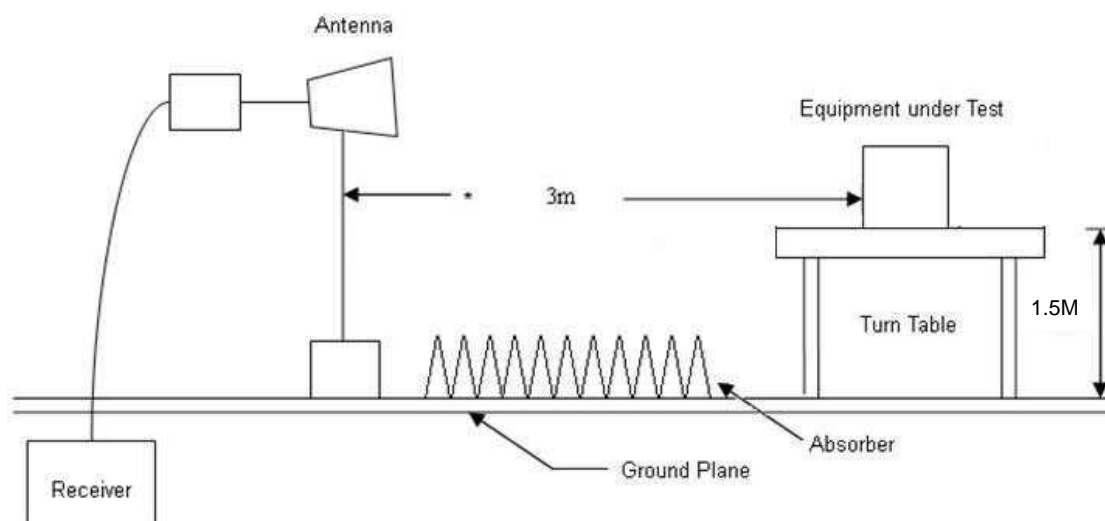
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



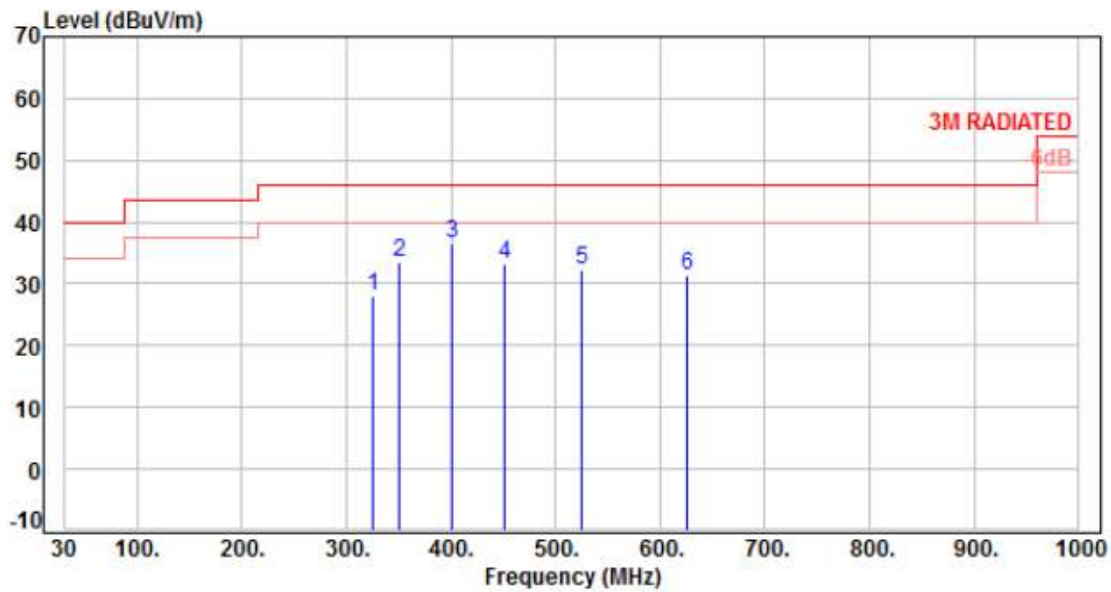


### 6.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz-30MHz spurious emission is under limit 20dB more.

### 6.5 Test Result and Data (30MHz ~ 1GHz)

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1		

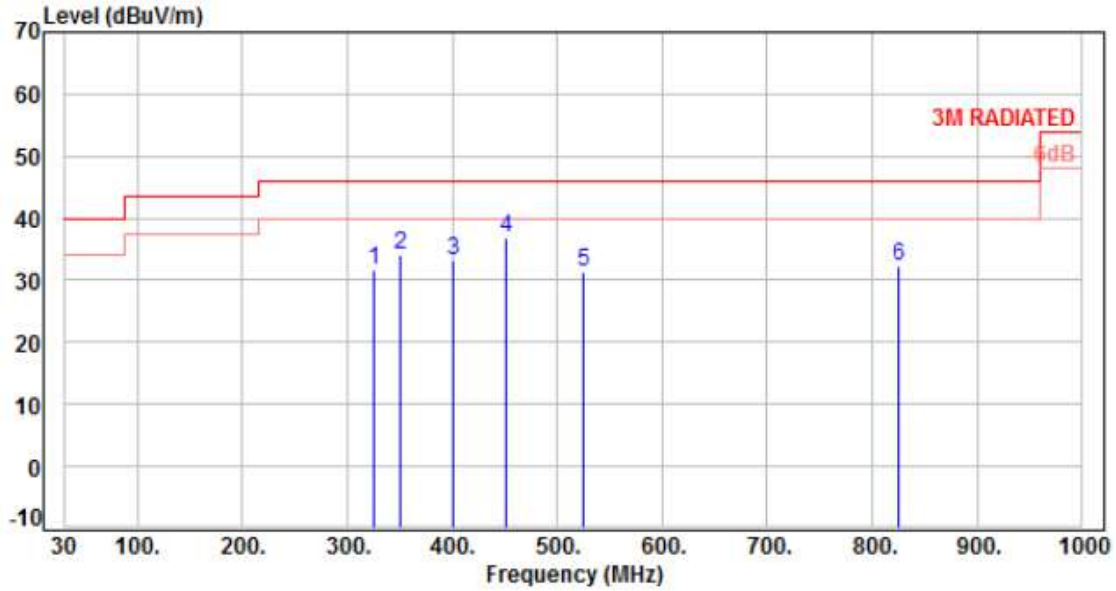


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	324.74	-9.01	37.11	28.10	46.00	-17.90	Peak	400	0	P
2	350.35	-8.41	41.84	33.43	46.00	-12.57	Peak	400	0	P
3	400.54	-7.05	43.62	36.57	46.00	-9.43	Peak	400	0	P
4	450.74	-5.78	38.97	33.19	46.00	-12.81	Peak	400	0	P
5	524.65	-4.10	36.48	32.38	46.00	-13.62	Peak	400	0	P
6	625.52	-2.03	33.35	31.32	46.00	-14.68	Peak	400	0	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1		:



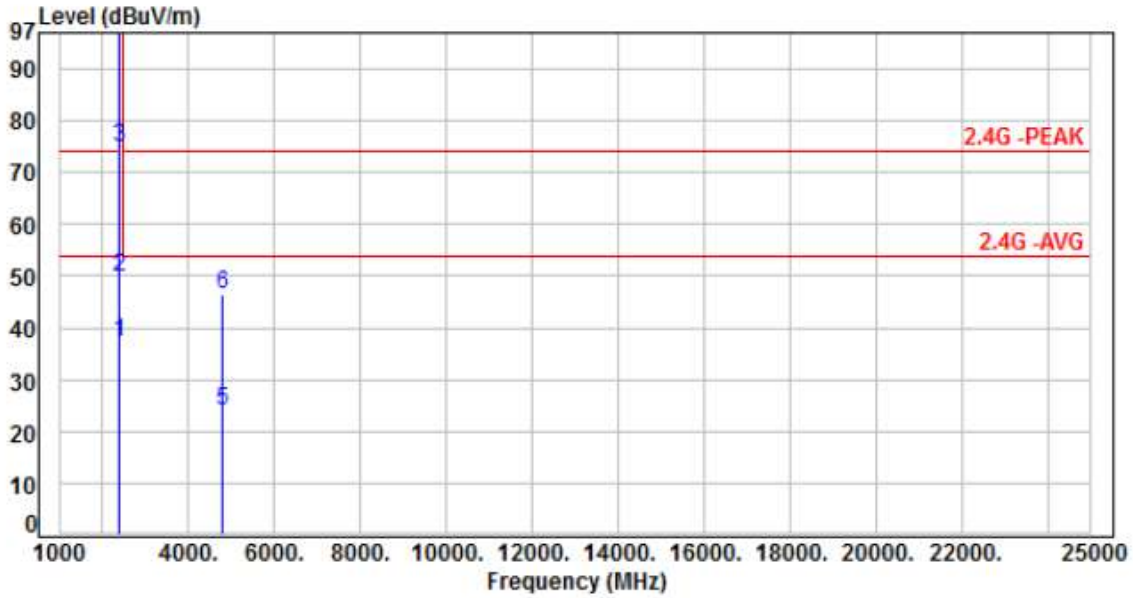
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	324.84	-9.00	40.77	31.77	46.00	-14.23	Peak	400	360	P
2	350.48	-8.41	42.57	34.16	46.00	-11.84	Peak	400	360	P
3	400.74	-7.05	40.12	33.07	46.00	-12.93	Peak	400	360	P
4	450.48	-5.78	42.59	36.81	46.00	-9.19	Peak	400	360	P
5	524.86	-4.09	35.33	31.24	46.00	-14.76	Peak	400	360	P
6	825.44	1.02	31.26	32.28	46.00	-13.72	Peak	400	360	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



### 6.6 Test Result and Data (1GHz ~ 25GHz)

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH00		:

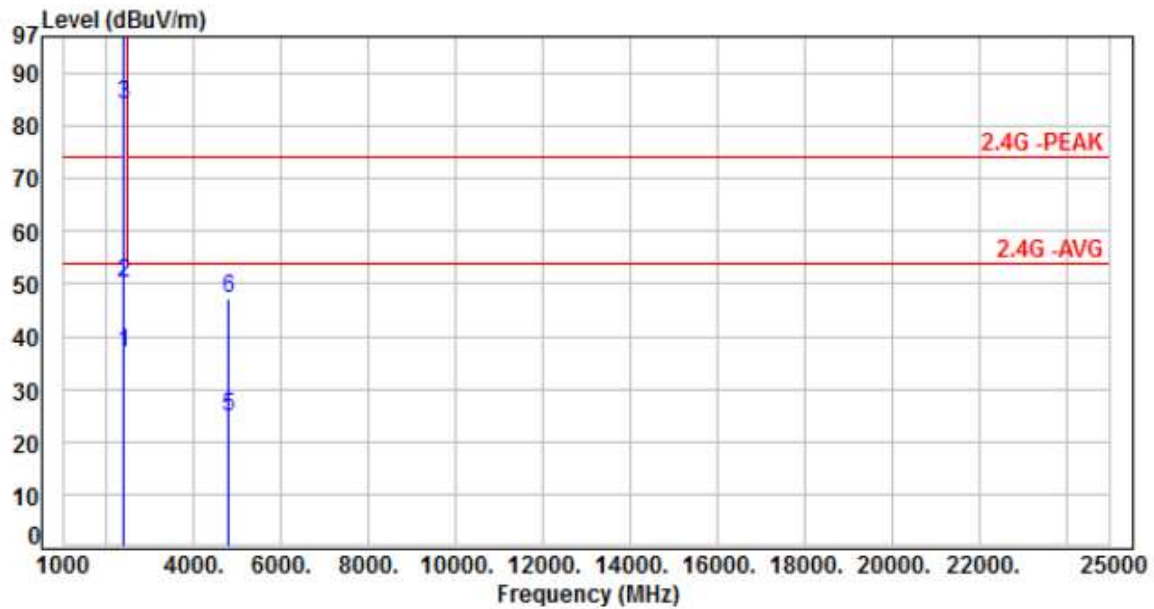


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.62	40.79	37.17	54.00	-16.83	Average	373	291	P
2	2390.00	-3.62	53.25	49.63	74.00	-24.37	Peak	373	291	P
3	2402.00	-3.61	78.59	74.98	200.00	-125.02	Average	373	291	P
4	2402.00	-3.61	101.09	97.48	200.00	-102.52	Peak	373	291	P
5	4804.00	3.66	20.45	24.11	54.00	-29.89	Average	100	314	P
6	4804.00	3.66	42.95	46.61	74.00	-27.39	Peak	100	314	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH00		:



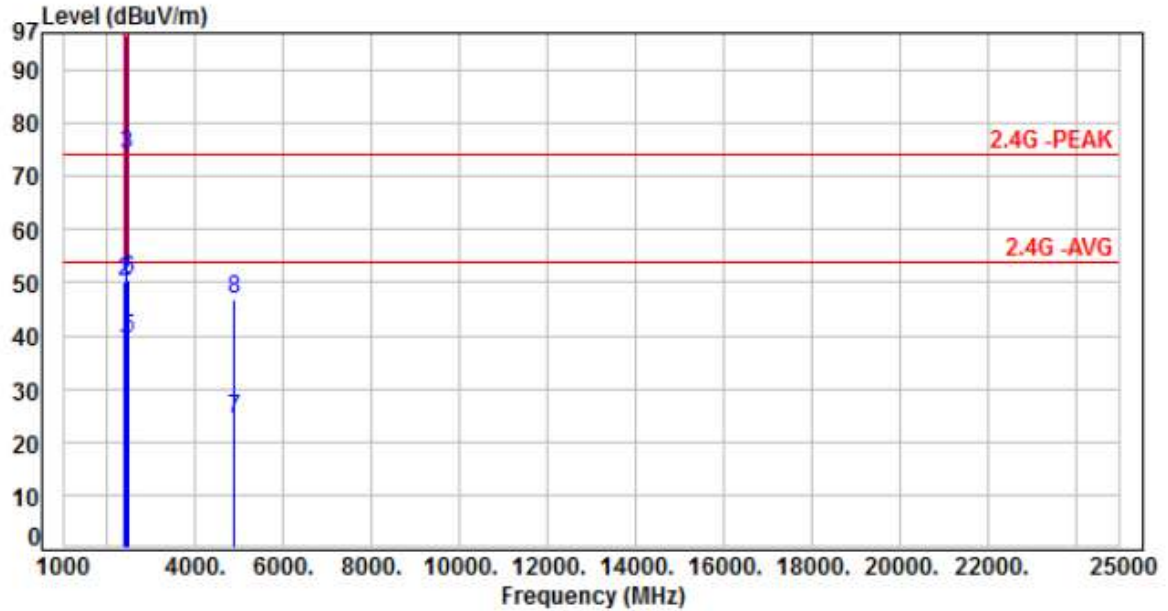
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.62	40.62	37.00	54.00	-17.00	Average	232	308	P
2	2390.00	-3.62	53.84	50.22	74.00	-23.78	Peak	232	308	P
3	2402.00	-3.61	87.66	84.05	200.00	-115.95	Average	232	308	P
4	2402.00	-3.61	110.16	106.55	200.00	-93.45	Peak	232	308	P
5	4804.00	3.66	21.22	24.88	54.00	-29.12	Average	100	293	P
6	4804.00	3.66	43.72	47.38	74.00	-26.62	Peak	100	293	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH39		:

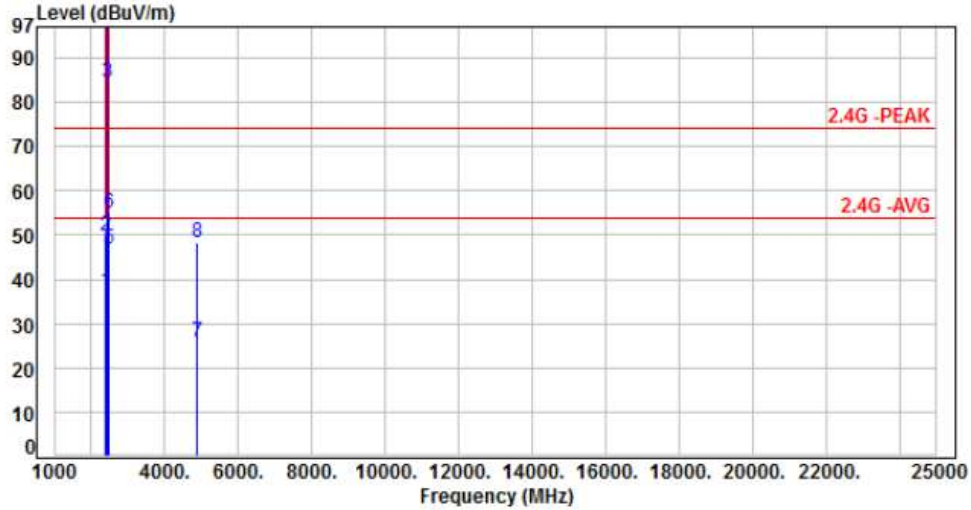


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.62	40.81	37.19	54.00	-16.81	Average	333	288	P
2	2390.00	-3.62	53.61	49.99	74.00	-24.01	Peak	333	288	P
3	2441.00	-3.57	77.59	74.02	200.00	-125.98	Average	333	288	P
4	2441.00	-3.57	100.09	96.52	200.00	-103.48	Peak	333	288	P
5	2483.50	-3.40	42.84	39.44	54.00	-14.56	Average	333	288	P
6	2483.50	-3.40	54.03	50.63	74.00	-23.37	Peak	333	288	P
7	4882.00	3.91	20.28	24.19	54.00	-29.81	Average	100	233	P
8	4882.00	3.91	42.78	46.69	74.00	-27.31	Peak	100	233	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH39		:

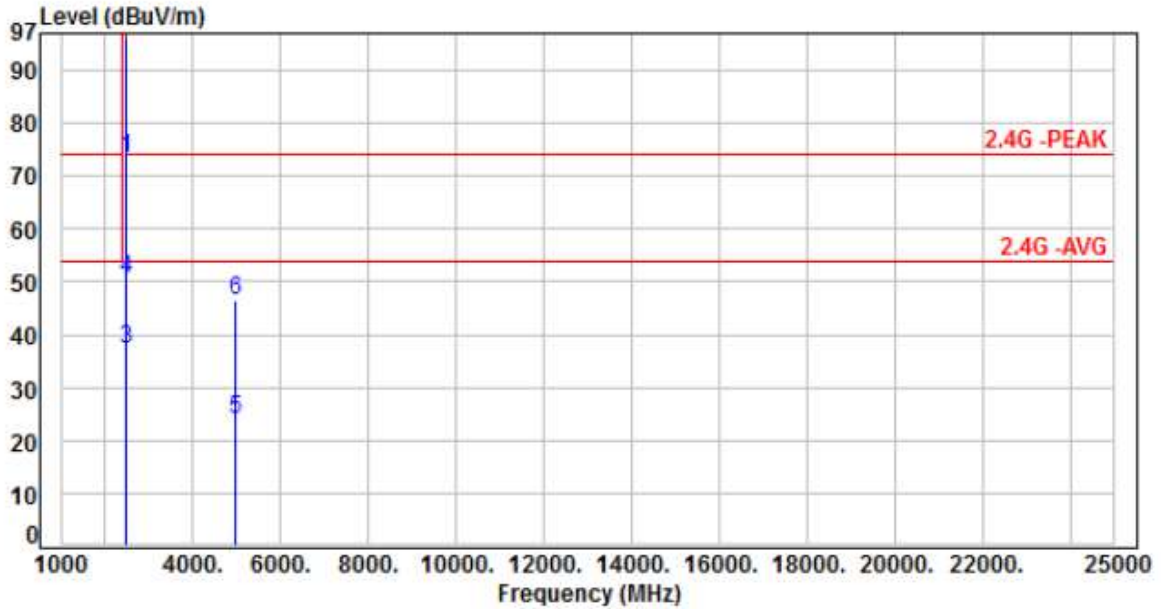


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.62	40.91	37.29	54.00	-16.71	Average	176	302	P
2	2390.00	-3.62	53.31	49.69	74.00	-24.31	Peak	176	302	P
3	2441.00	-3.57	88.09	84.52	200.00	-115.48	Average	176	302	P
4	2441.00	-3.57	110.59	107.02	200.00	-92.98	Peak	176	302	P
5	2483.50	-3.40	50.23	46.83	54.00	-7.17	Average	176	302	P
6	2483.50	-3.40	58.47	55.07	74.00	-18.93	Peak	176	302	P
7	4882.00	3.91	21.84	25.75	54.00	-28.25	Average	103	316	P
8	4882.00	3.91	44.34	48.25	74.00	-25.75	Peak	103	316	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH78		:

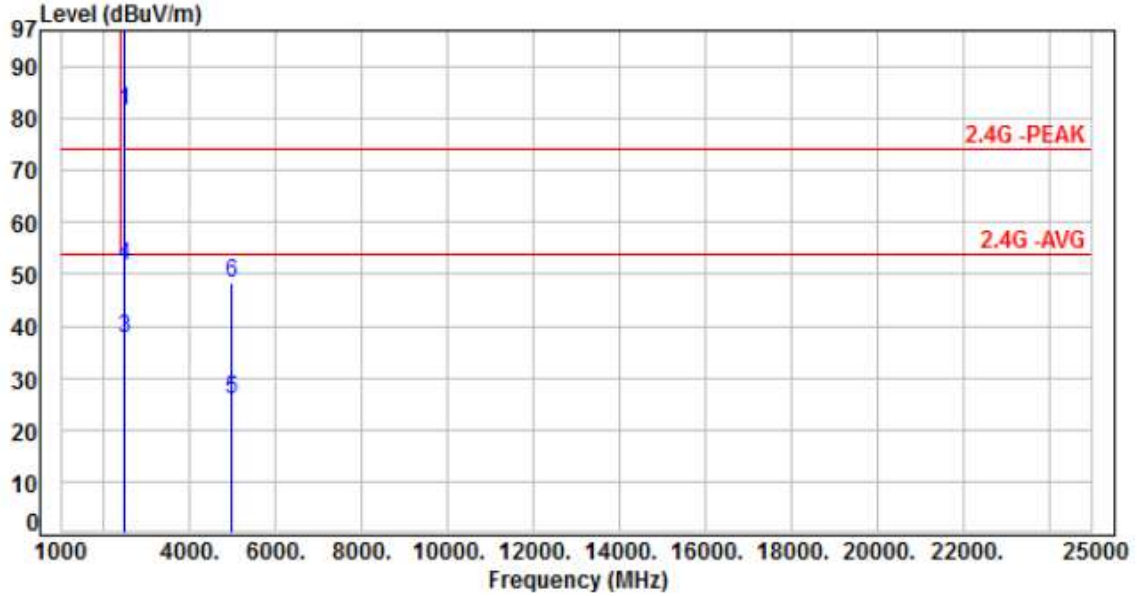


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-3.41	76.87	73.46	200.00	-126.54	Average	364	265	P
2	2480.00	-3.41	99.37	95.96	200.00	-104.04	Peak	364	265	P
3	2483.50	-3.40	40.73	37.33	54.00	-16.67	Average	364	265	P
4	2483.50	-3.40	53.84	50.44	74.00	-23.56	Peak	364	265	P
5	4960.00	4.27	19.86	24.13	54.00	-29.87	Average	100	276	P
6	4960.00	4.27	42.36	46.63	74.00	-27.37	Peak	100	276	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH78		:

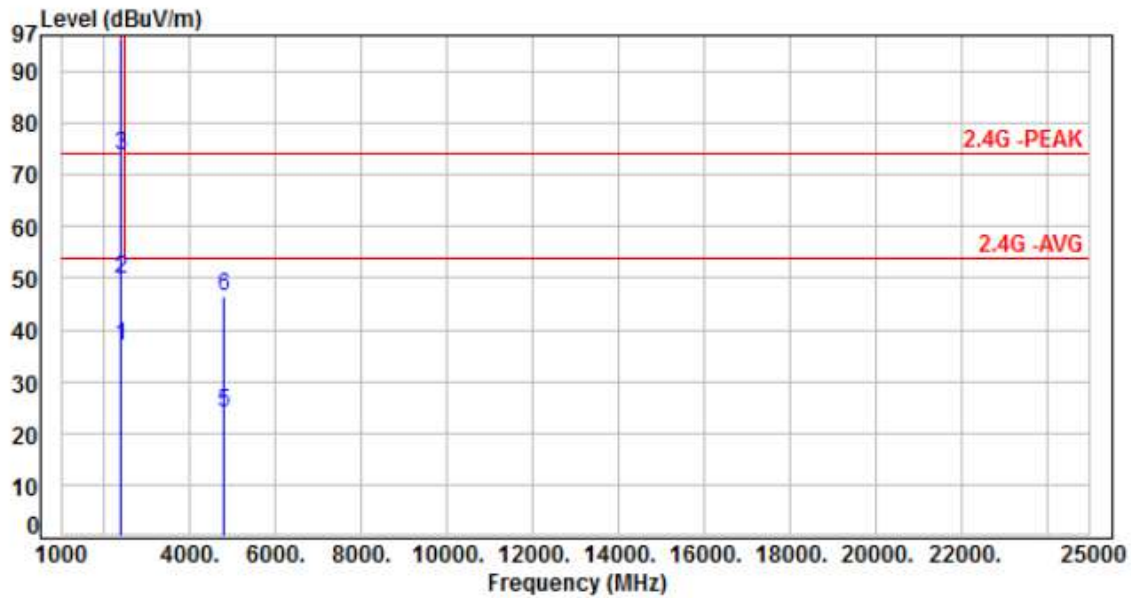


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-3.41	85.05	81.64	200.00	-118.36	Average	195	304	P
2	2480.00	-3.41	107.55	104.14	200.00	-95.86	Peak	195	304	P
3	2483.50	-3.40	40.90	37.50	54.00	-16.50	Average	195	304	P
4	2483.50	-3.40	54.92	51.52	74.00	-22.48	Peak	195	304	P
5	4960.00	4.27	21.49	25.76	54.00	-28.24	Average	122	328	P
6	4960.00	4.27	43.99	48.26	74.00	-25.74	Peak	122	328	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH00		:

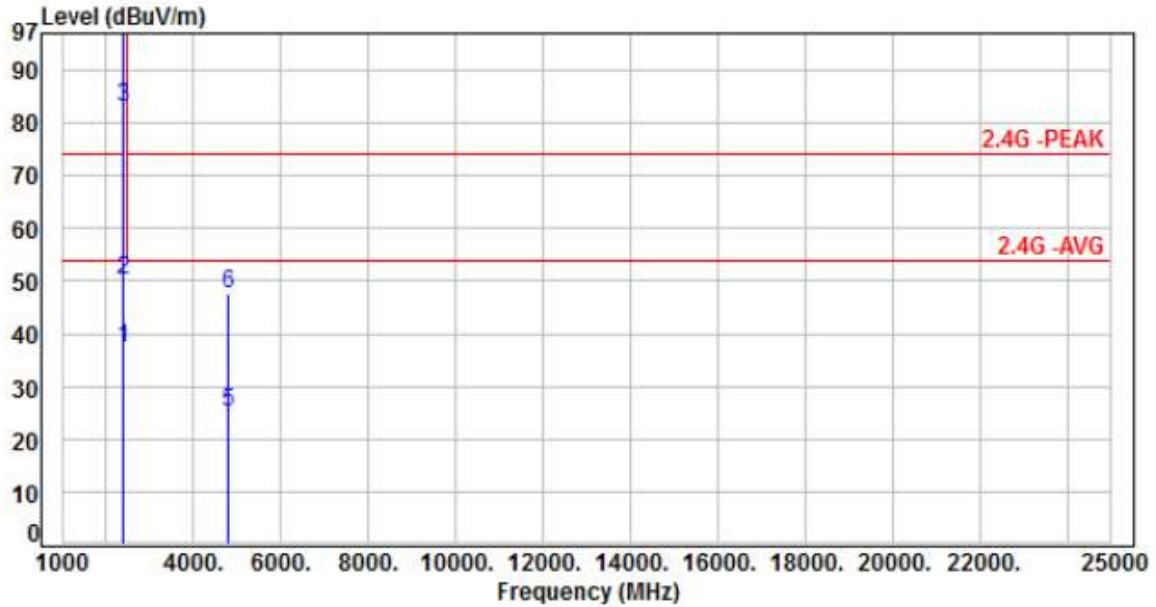


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.62	40.63	37.01	54.00	-16.99	Average	375	281	P
2	2390.00	-3.62	53.23	49.61	74.00	-24.39	Peak	375	281	P
3	2402.00	-3.61	77.32	73.71	200.00	-126.29	Average	375	281	P
4	2402.00	-3.61	99.82	96.21	200.00	-103.79	Peak	375	281	P
5	4804.00	3.66	20.32	23.98	54.00	-30.02	Average	100	241	P
6	4804.00	3.66	42.82	46.48	74.00	-27.52	Peak	100	241	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH00		:

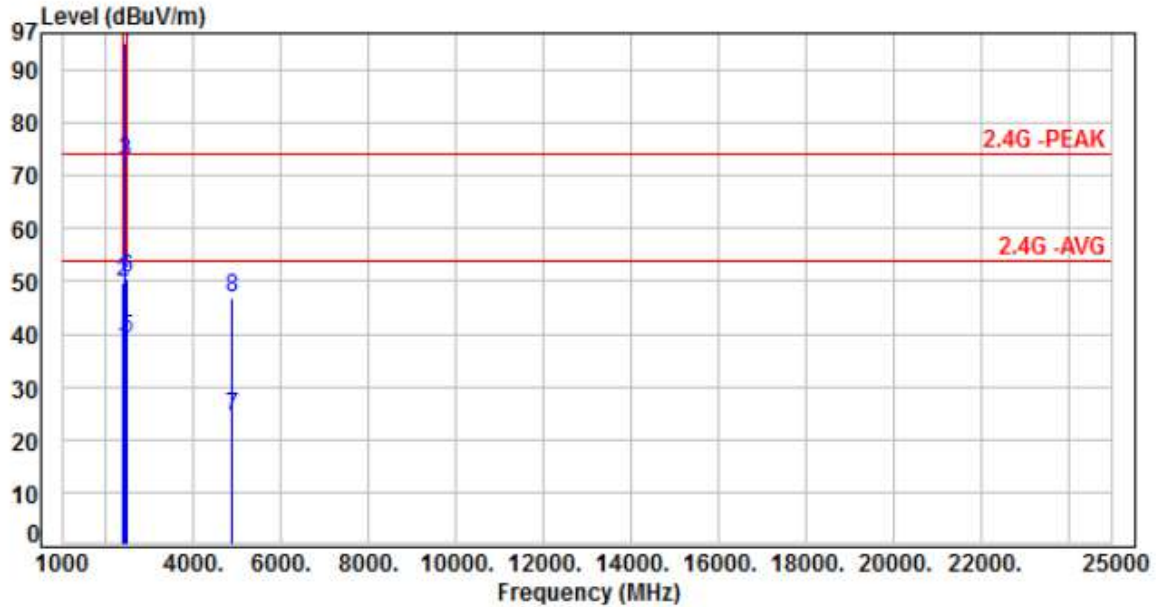


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.62	40.79	37.17	54.00	-16.83	Average	230	307	P
2	2390.00	-3.62	53.62	50.00	74.00	-24.00	Peak	230	307	P
3	2402.00	-3.61	86.73	83.12	200.00	-116.88	Average	230	307	P
4	2402.00	-3.61	109.23	105.62	200.00	-94.38	Peak	230	307	P
5	4804.00	3.66	21.43	25.09	54.00	-28.91	Average	100	292	P
6	4804.00	3.66	43.93	47.59	74.00	-26.41	Peak	100	292	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH39		:

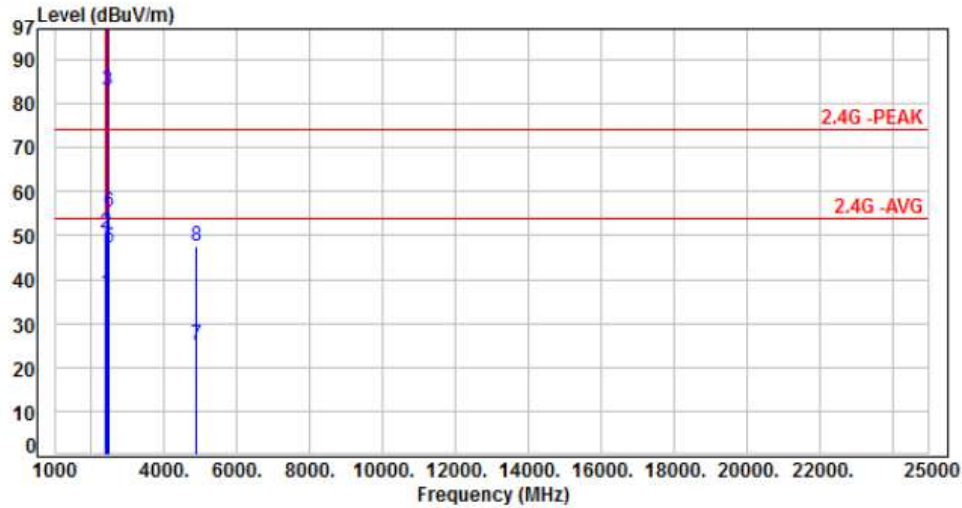


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.62	40.71	37.09	54.00	-16.91	Average	332	285	P
2	2390.00	-3.62	53.35	49.73	74.00	-24.27	Peak	332	285	P
3	2441.00	-3.57	76.16	72.59	200.00	-127.41	Average	332	285	P
4	2441.00	-3.57	98.66	95.09	200.00	-104.91	Peak	332	285	P
5	2483.50	-3.40	42.47	39.07	54.00	-14.93	Average	332	285	P
6	2483.50	-3.40	53.88	50.48	74.00	-23.52	Peak	332	285	P
7	4882.00	3.91	20.33	24.24	54.00	-29.76	Average	100	241	P
8	4882.00	3.91	42.83	46.74	74.00	-27.26	Peak	100	241	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH39		:



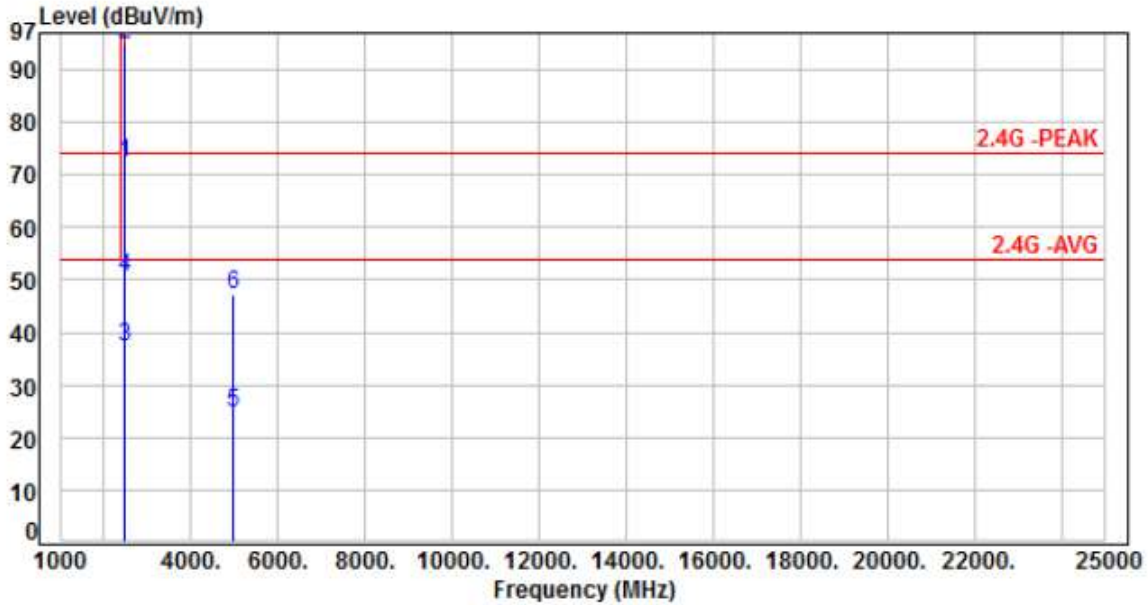
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.62	40.68	37.06	54.00	-16.94	Average	176	301	P
2	2390.00	-3.62	54.02	50.40	74.00	-23.60	Peak	176	301	P
3	2441.00	-3.57	86.61	83.04	200.00	-116.96	Average	176	301	P
4	2441.00	-3.57	109.11	105.54	200.00	-94.46	Peak	176	301	P
5	2483.50	-3.40	50.44	47.04	54.00	-6.96	Average	176	301	P
6	2483.50	-3.40	58.55	55.15	74.00	-18.85	Peak	176	301	P
7	4882.00	3.91	21.03	24.94	54.00	-29.06	Average	100	294	P
8	4882.00	3.91	43.53	47.44	74.00	-26.56	Peak	100	294	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH78		:

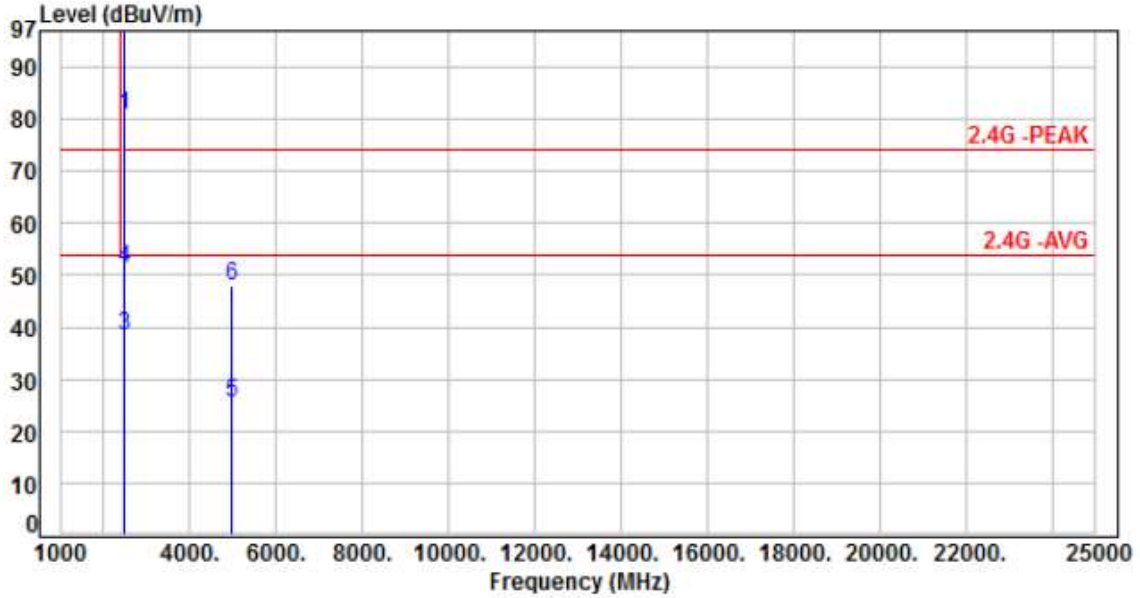


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-3.41	75.73	72.32	200.00	-127.68	Average	364	266	P
2	2480.00	-3.41	98.23	94.82	200.00	-105.18	Peak	364	266	P
3	2483.50	-3.40	40.73	37.33	54.00	-16.67	Average	364	266	P
4	2483.50	-3.40	53.99	50.59	74.00	-23.41	Peak	364	266	P
5	4960.00	4.27	20.29	24.56	54.00	-29.44	Average	100	208	P
6	4960.00	4.27	42.79	47.06	74.00	-26.94	Peak	100	208	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH78		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-3.41	84.21	80.80	200.00	-119.20	Average	194	303	P
2	2480.00	-3.41	106.71	103.30	200.00	-96.70	Peak	194	303	P
3	2483.50	-3.40	41.69	38.29	54.00	-15.71	Average	194	303	P
4	2483.50	-3.40	54.84	51.44	74.00	-22.56	Peak	194	303	P
5	4960.00	4.27	21.03	25.30	54.00	-28.70	Average	100	277	P
6	4960.00	4.27	43.53	47.80	74.00	-26.20	Peak	100	277	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



### 6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

\*\* : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



## 7. Test of Conducted Spurious Emission

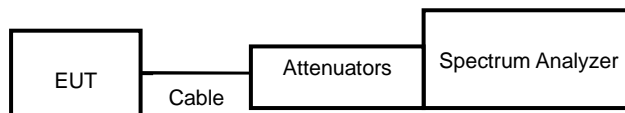
### 7.1 Test Limit

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 7.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. The band edges was measured and recorded.

### 7.3 Test Setup Layout



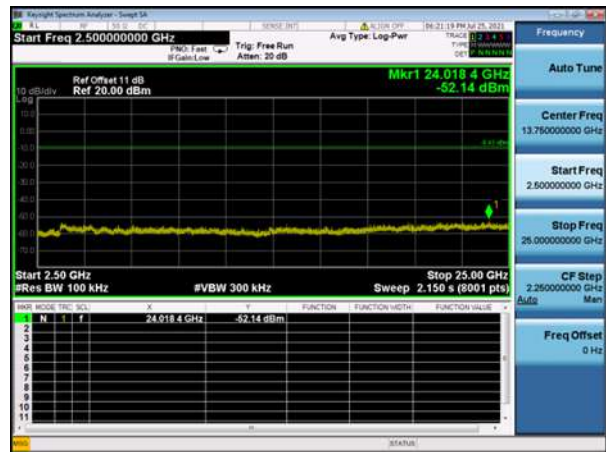
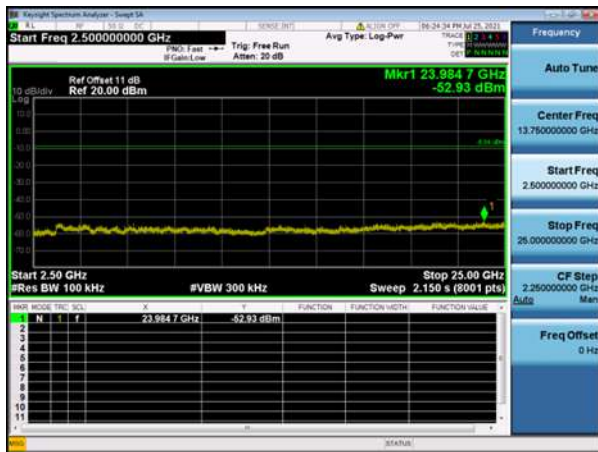
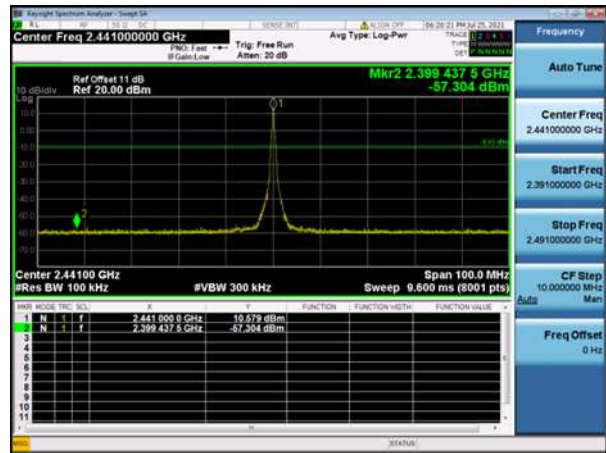
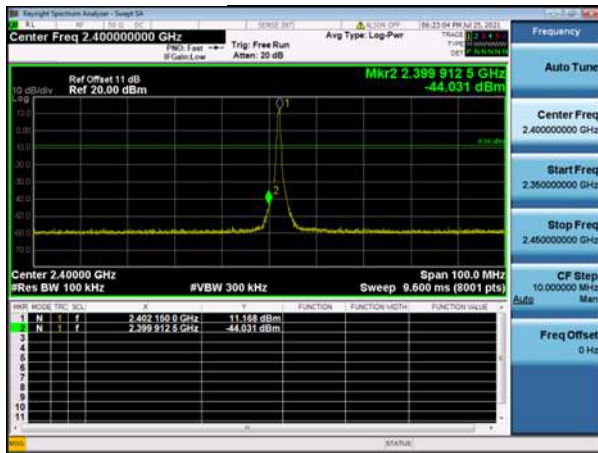
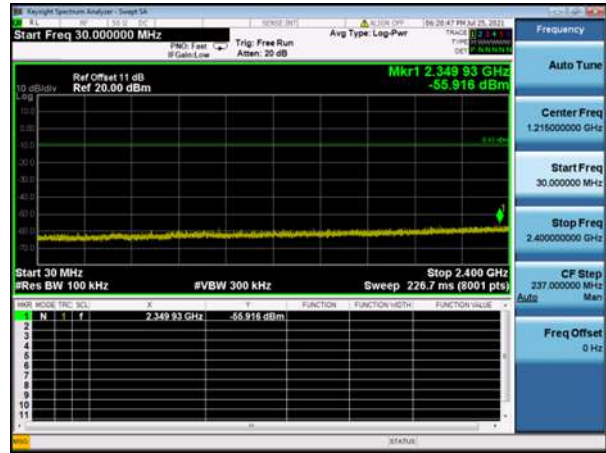
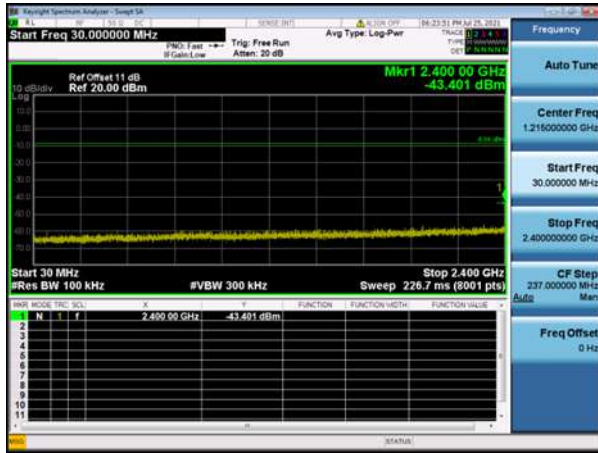
### 7.4 Test Result and Data

Note: Test plots refer to the following pages.



Modulation Type: GFSK (1Mbps)  
Channel: 00

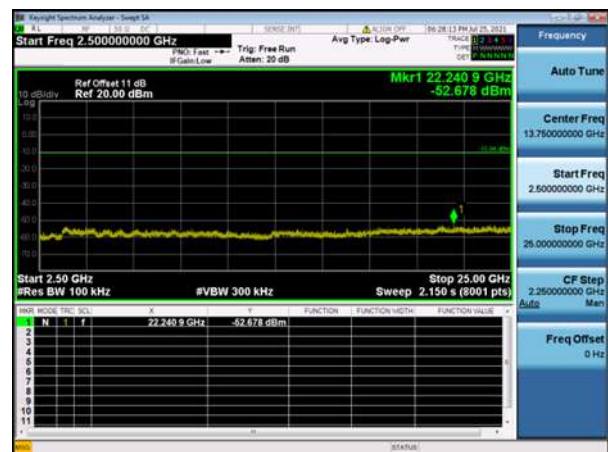
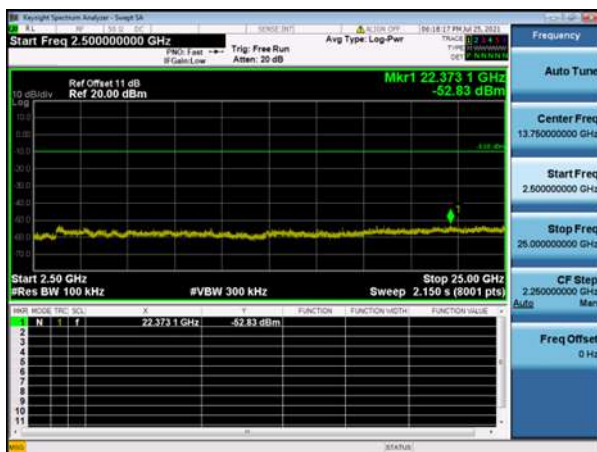
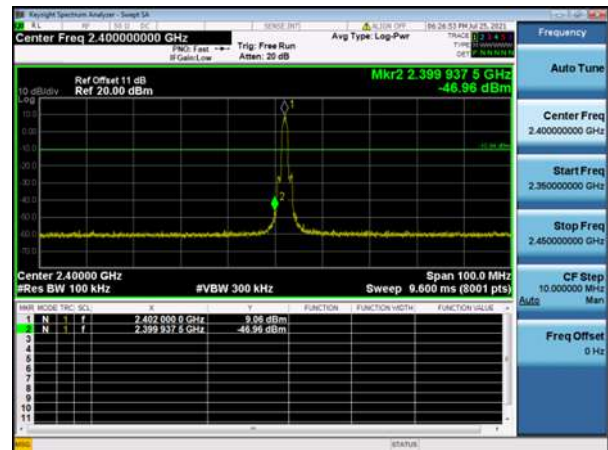
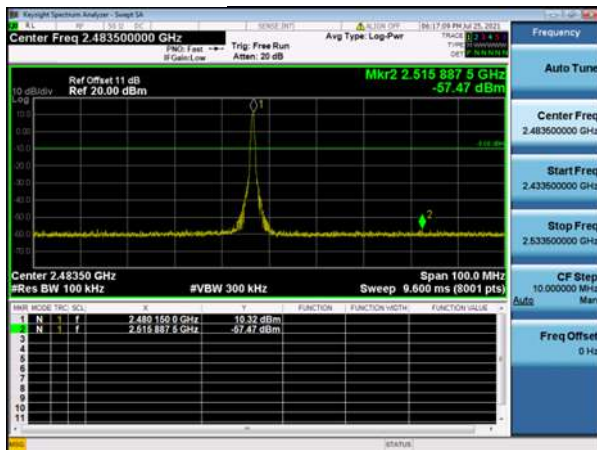
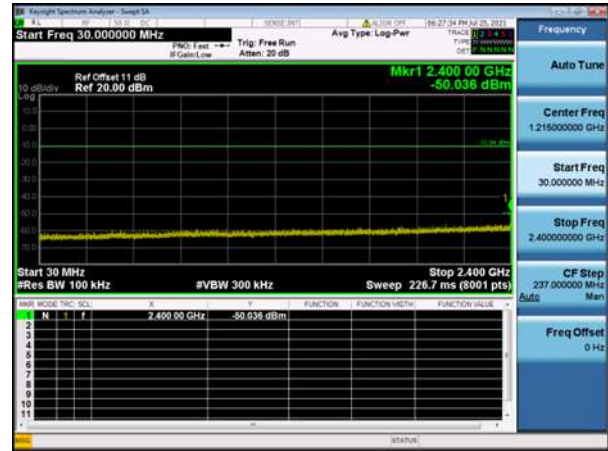
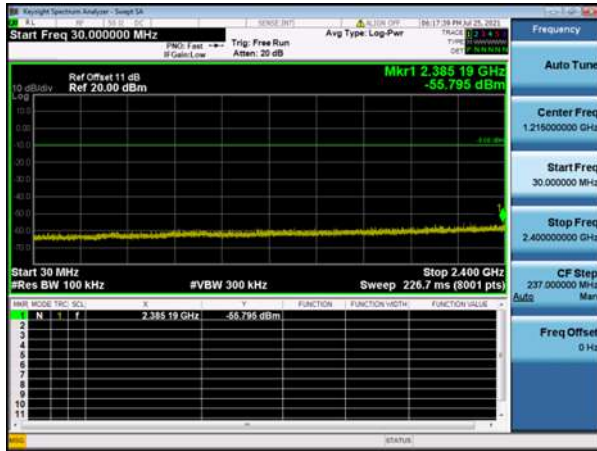
Modulation Type: GFSK (1Mbps)  
Channel: 39





Modulation Type: GFSK (1Mbps)  
Channel: 78

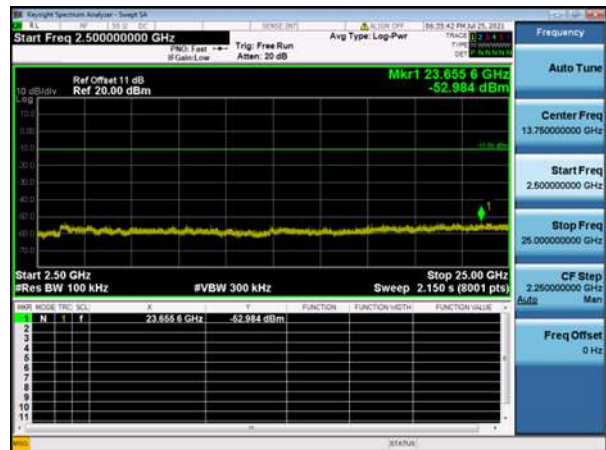
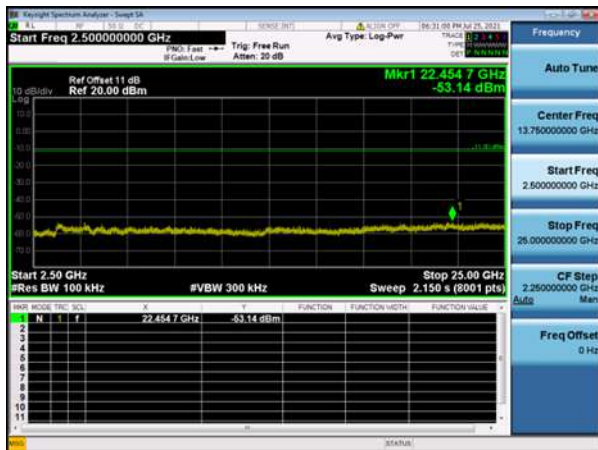
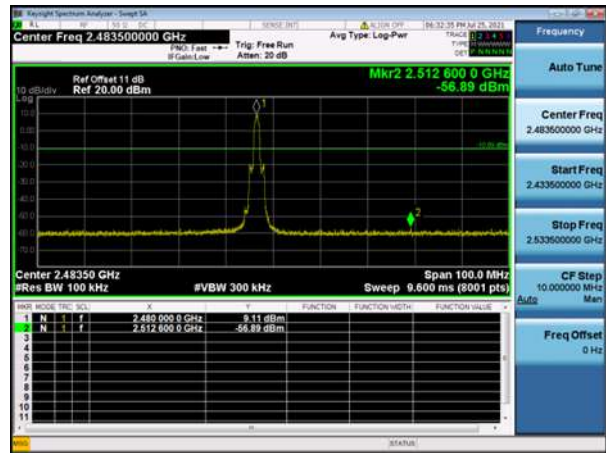
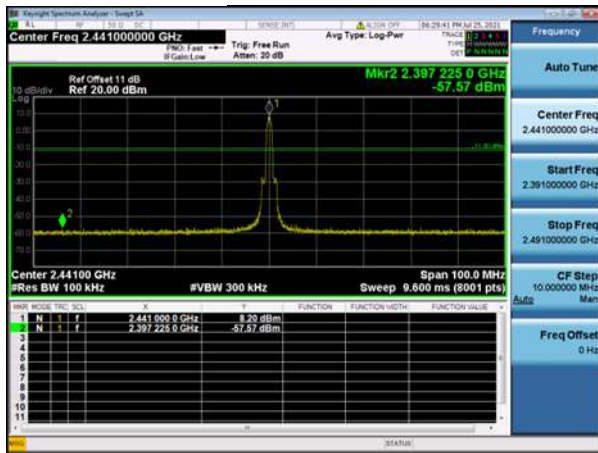
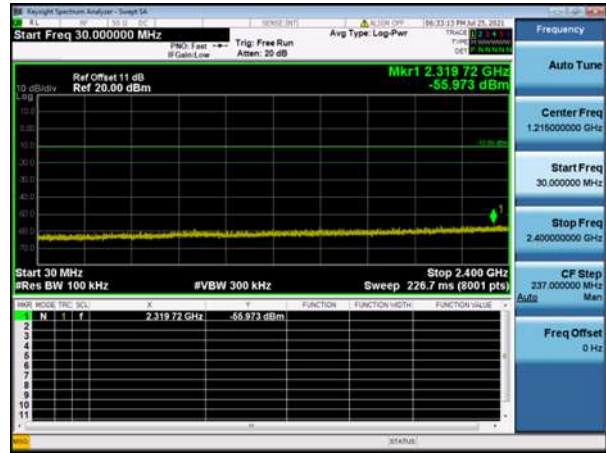
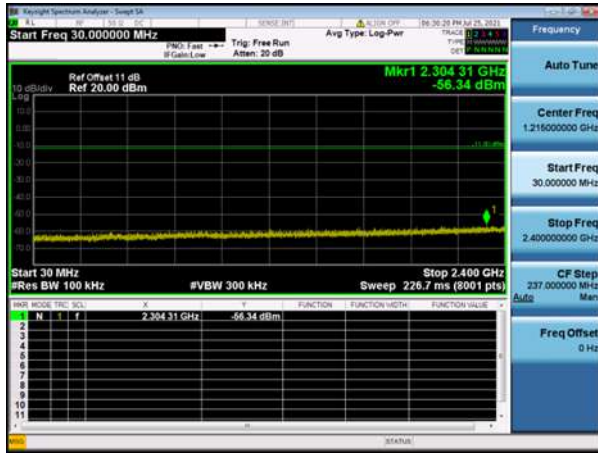
Modulation Type:  $\pi/4$ -DQPSK (2Mbps)  
Channel: 00





Modulation Type:  $\pi/4$ -DQPSK (2Mbps)  
Channel: 39

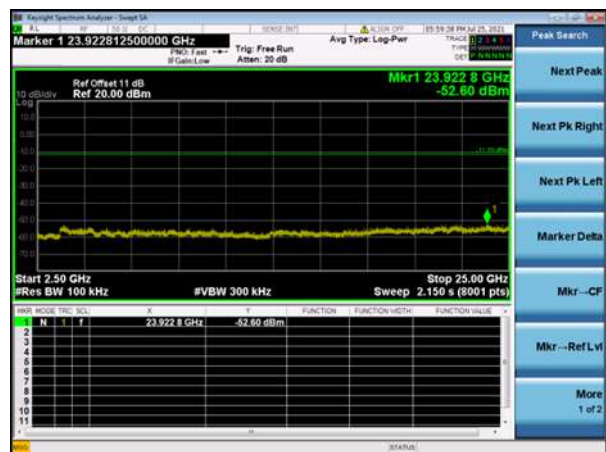
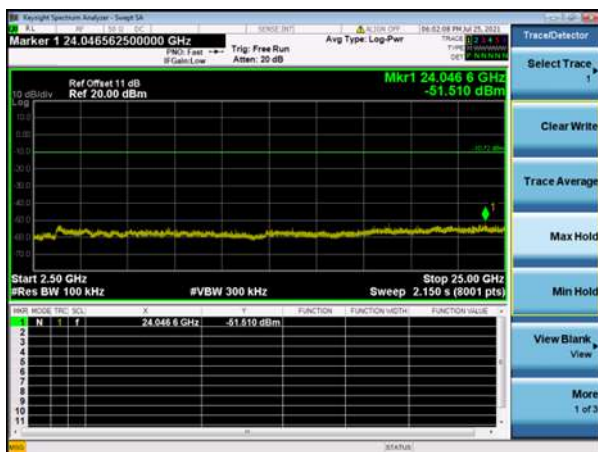
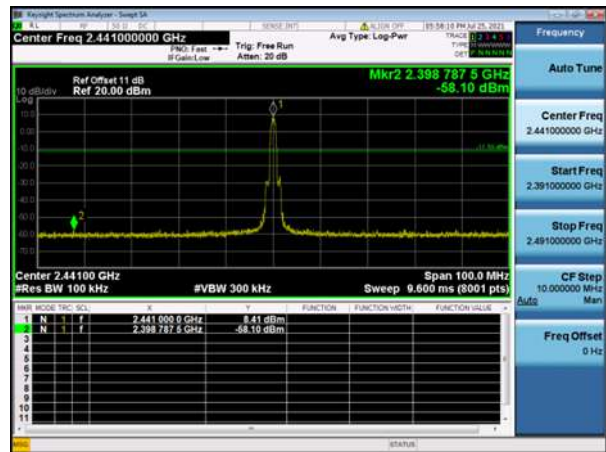
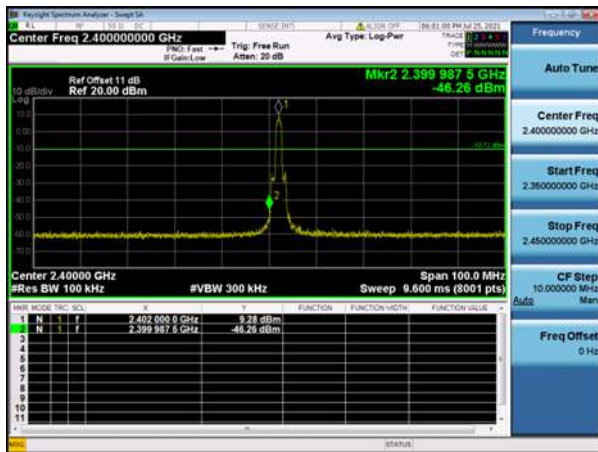
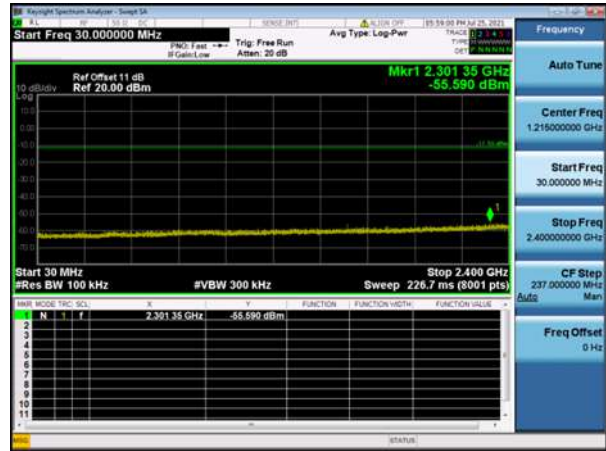
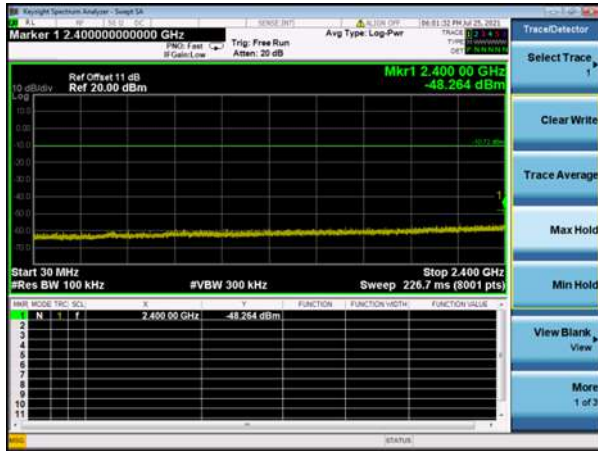
Modulation Type:  $\pi/4$ -DQPSK (2Mbps)  
Channel: 78





Modulation Type: 8DPSK (3Mbps)  
Channel: 00

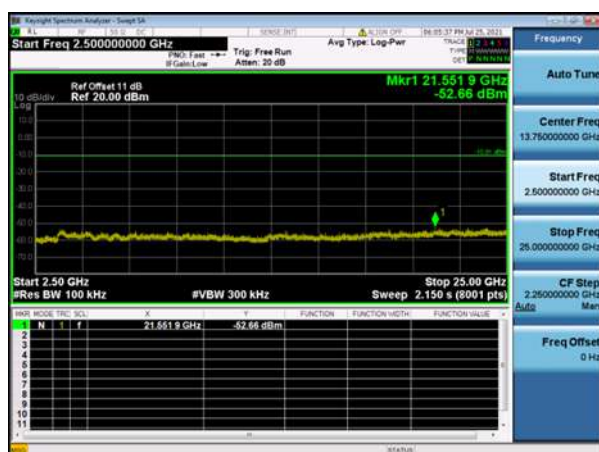
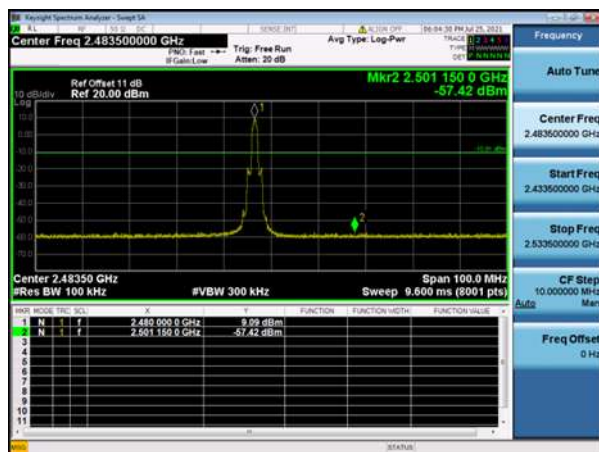
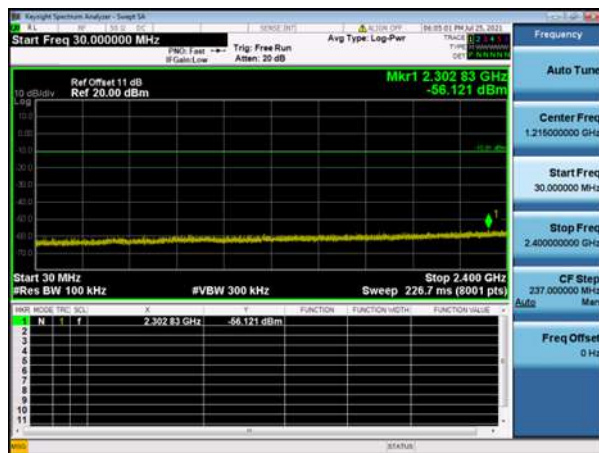
Modulation Type: 8DPSK (3Mbps)  
Channel: 39







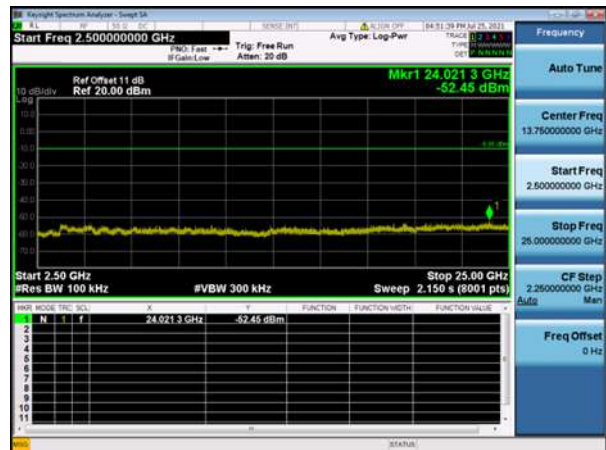
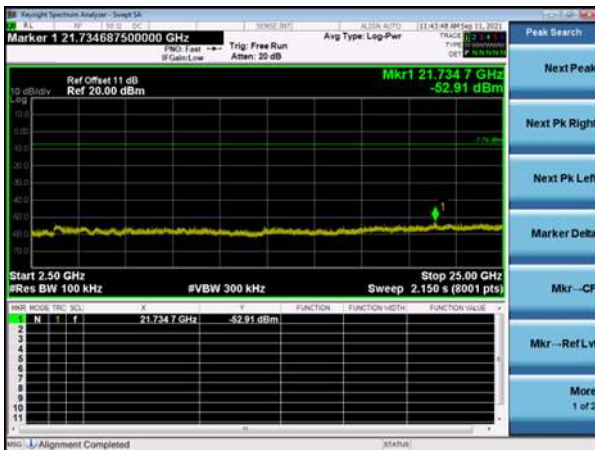
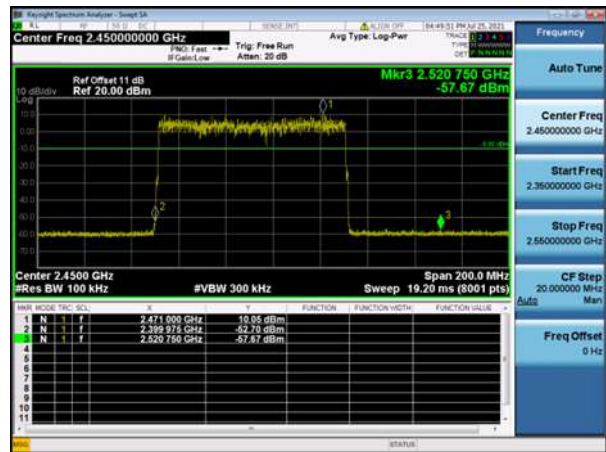
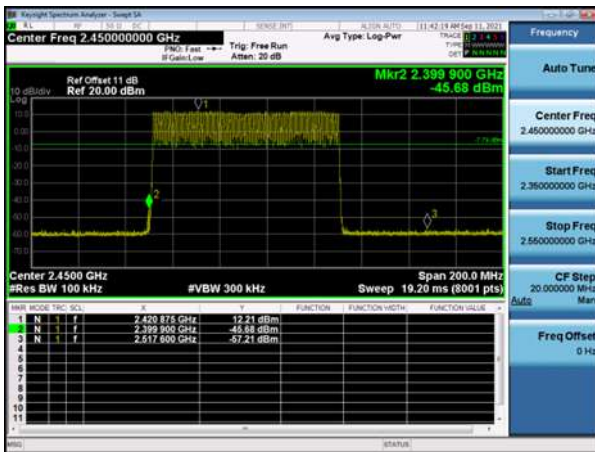
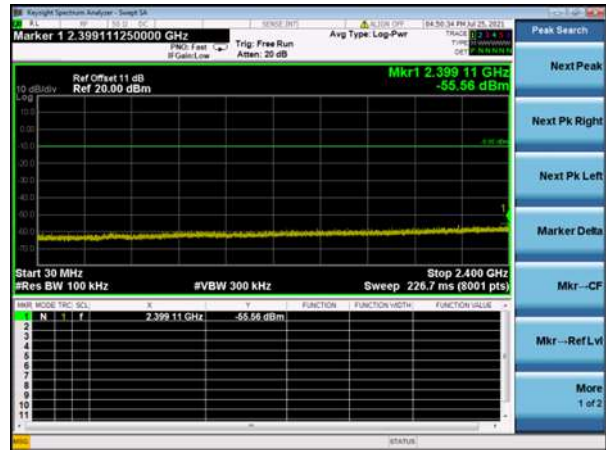
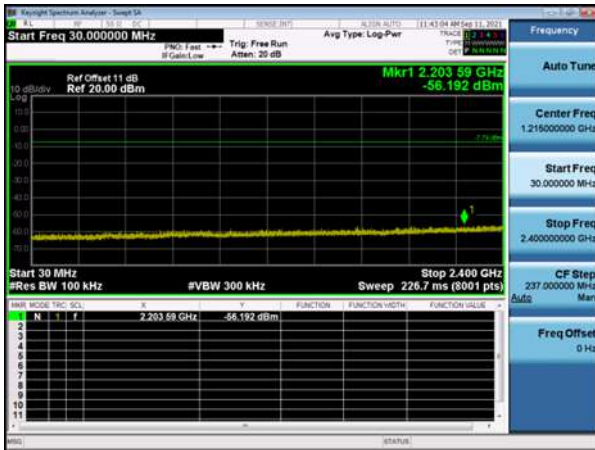
Modulation Type: 8DPSK (3Mbps)  
Channel: 78





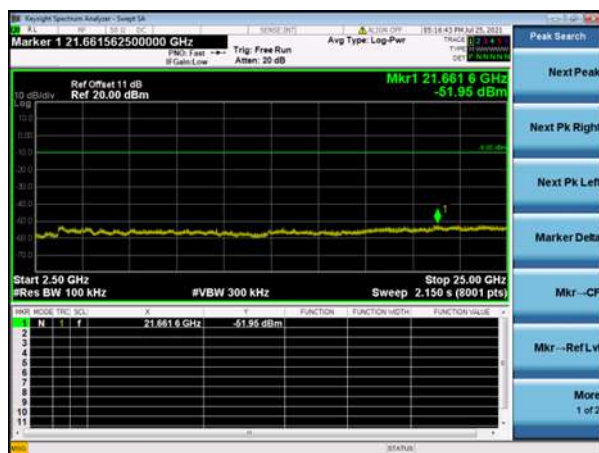
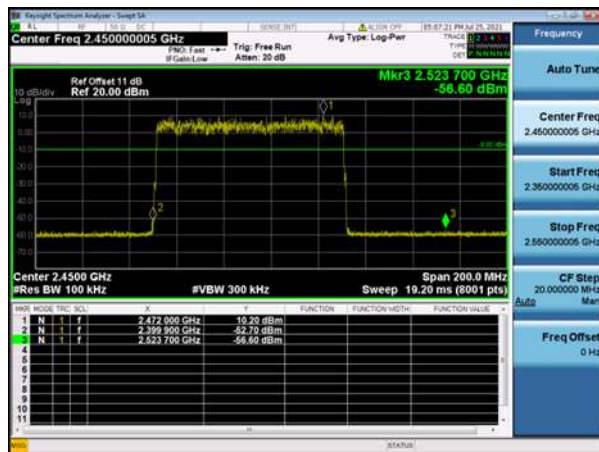
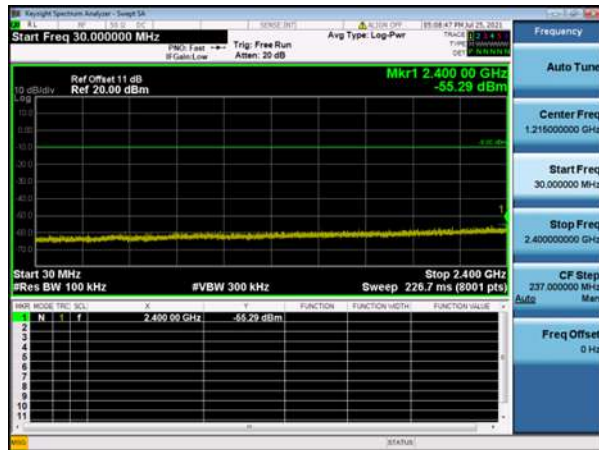
Hopping Mode: Modulation Type: GFSK

Modulation Type:  $\pi/4$ -DQPSK





Modulation Type: 8DPSK





## 8. 20dB Bandwidth Measurement Data

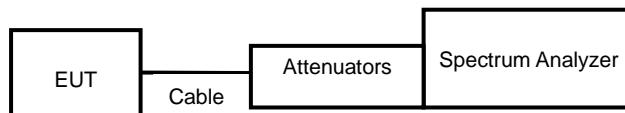
### 8.1 Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### 8.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 1~5% of the 20dB bandwidth and VBW to approximately three time RBW..
- c. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

### 8.3 Test Setup Layout





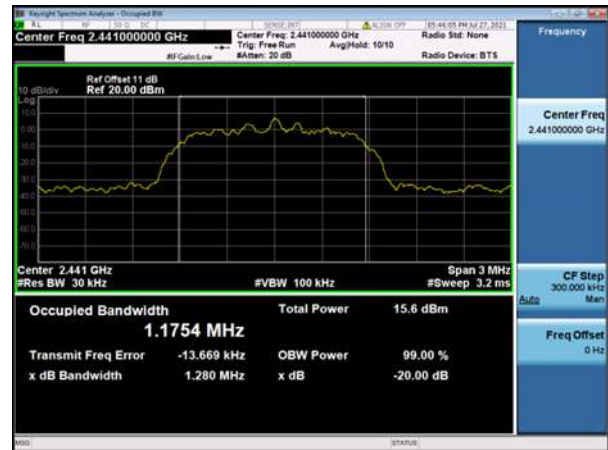
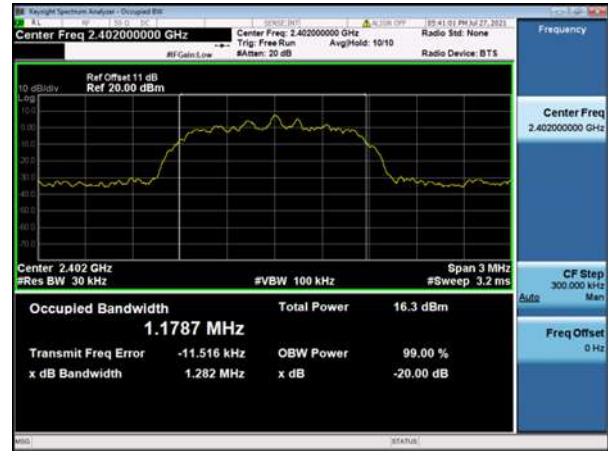
### 8.4 Test Result and Data

Modulation Type	Channel	Frequency (MHz)	20dB Bandwidth (MHz)	2/3 20dB Bandwidth (MHz)
GFSK	0	2402	0.936	0.624
	39	2441	0.936	0.624
	78	2480	0.936	0.624
$\pi/4$ -DQPSK	0	2402	1.282	0.855
	39	2441	1.280	0.853
	78	2480	1.283	0.855
8DPSK	0	2402	1.296	0.864
	39	2441	1.296	0.864
	78	2480	1.297	0.865



Modulation Type: GFSK (1Mbps)  
Channel: 00

Modulation Type:  $\pi/4$ -DQPSK (2Mbps)  
Channel: 00



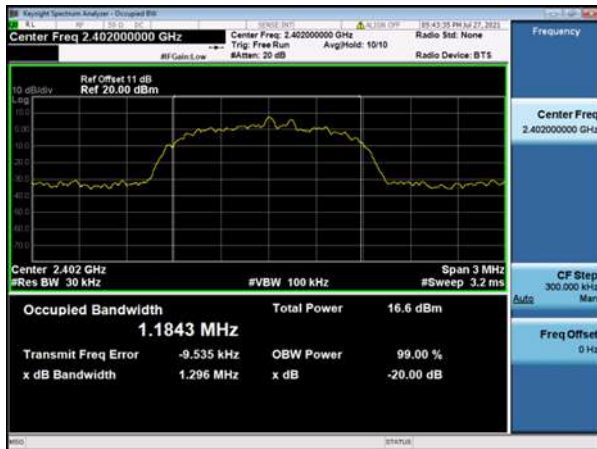
CH78

CH78

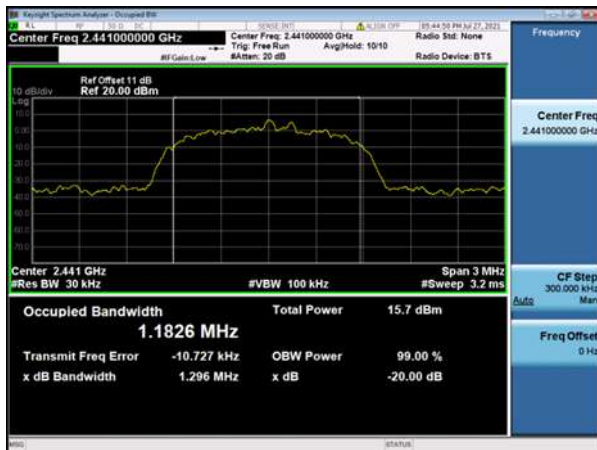




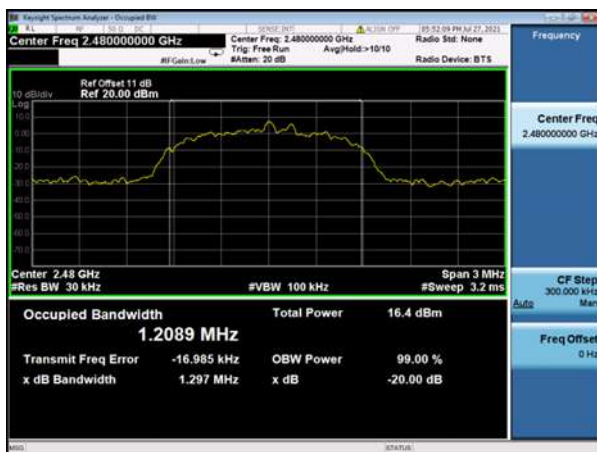
Modulation Type: 8DPSK (3Mbps)  
Channel: 00



CH39



CH78





## 9. Frequencies Separation

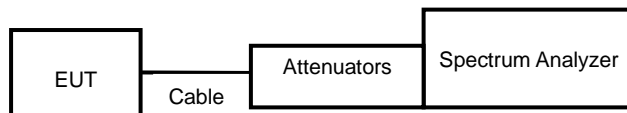
### 9.1 Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

### 9.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- c. By using the MaxHold function record the separation of two adjacent channels.
- d. Measure the frequency difference of these two adjacent channels.

### 9.3 Test Setup Layout





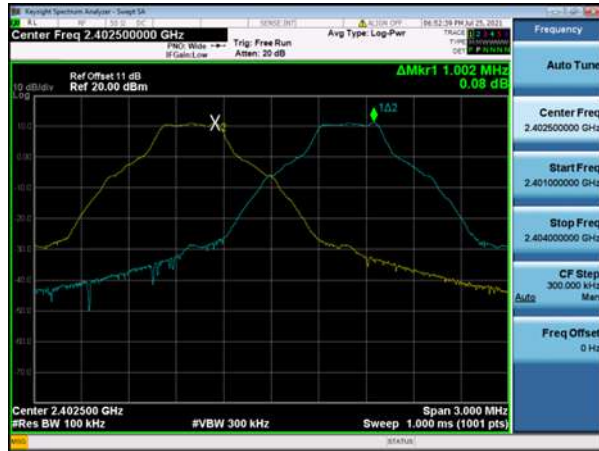


### 9.4 Test Result and Data

Modulation Type	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
GFSK	0	2402	1.002	0.624
	39	2441	1.002	0.624
	78	2480	1.002	0.624
$\pi/4$ -DQPSK	0	2402	1.002	0.855
	39	2441	1.002	0.853
	78	2480	1.002	0.855
8DPSK	0	2402	1.002	0.864
	39	2441	1.002	0.864
	78	2480	1.002	0.865



Modulation Type: GFSK (1Mbps)  
Channel: 00



Modulation Type:  $\pi/4$ -DQPSK (2Mbps)  
Channel: 00



CH39



CH39



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CH78





Modulation Type: 8DPSK (3Mbps)  
Channel: 00



CH39



CH78





## 10. Dwell Time on each channel

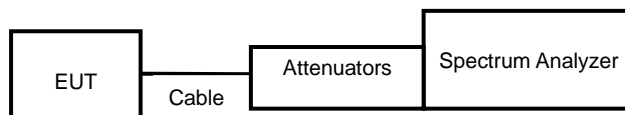
### 10.1 Test Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

### 10.2 Test Procedures

1. The transmitter output was connected to the spectrum analyzer.
2. Adjust the center frequency to measure frequency, then set zero span mode.
2. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz.
4. Measure the time duration of one transmission on the measured frequency.

### 10.3 Test Setup Layout



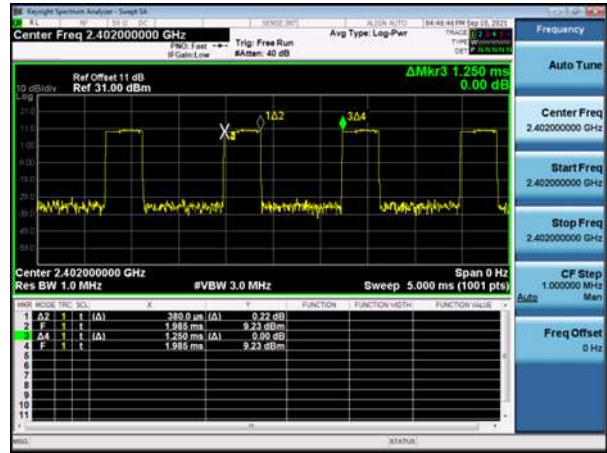
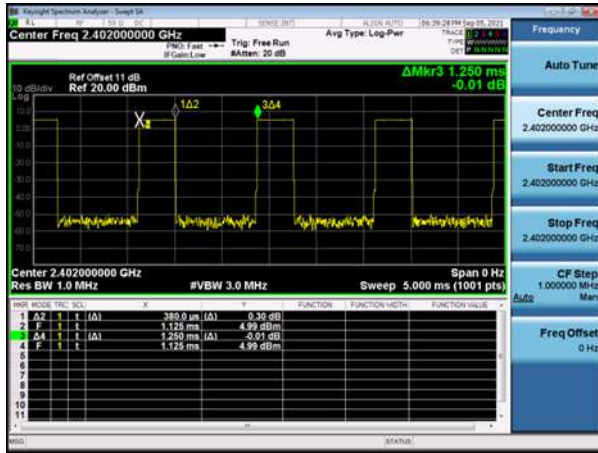
**10.4 Test Result and Data**

Modulation Type	Frequency (MHz)	Length of transmission time (ms)	Number of transmission in a 31.6 (79 Hopping*0.4)	Dwell Time (ms)	Limit (ms)
GFSK-DH1	2402	0.380	320.00	121.60	400
GFSK-DH3	2402	1.635	160.00	261.60	400
GFSK-DH5	2402	2.880	106.67	307.20	400
$\pi/4$ -DQPSK-DH1	2402	0.380	320.00	121.60	400
$\pi/4$ -DQPSK-DH3	2402	1.635	160.00	261.60	400
$\pi/4$ -DQPSK-DH5	2402	2.880	106.67	307.20	400
8DPSK-DH1	2402	0.380	320.00	121.60	400
8DPSK-DH3	2402	1.635	160.00	261.60	400
8DPSK-DH5	2402	2.880	106.67	307.20	400
Modulation Type	Frequency (MHz)	Length of transmission time (ms)	Number of transmission in a 8 (20 Hopping*0.4)	Dwell Time (ms)	Limit (ms)
AFH-DH1	2402-2421	0.380	160.00	60.80	400
AFH-DH3	2402-2421	1.635	80.00	130.80	400
AFH-DH5	2402-2421	2.890	53.33	154.12	400



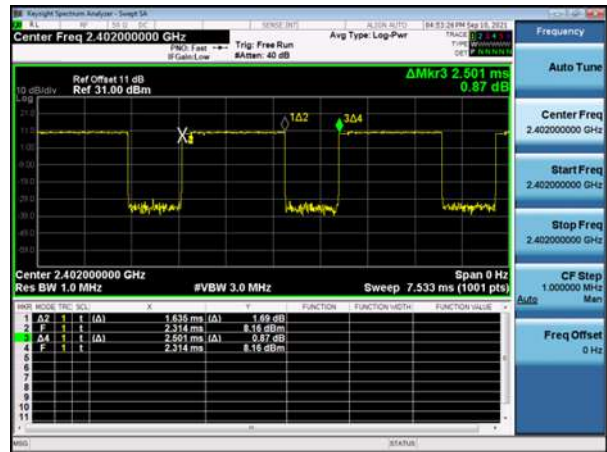
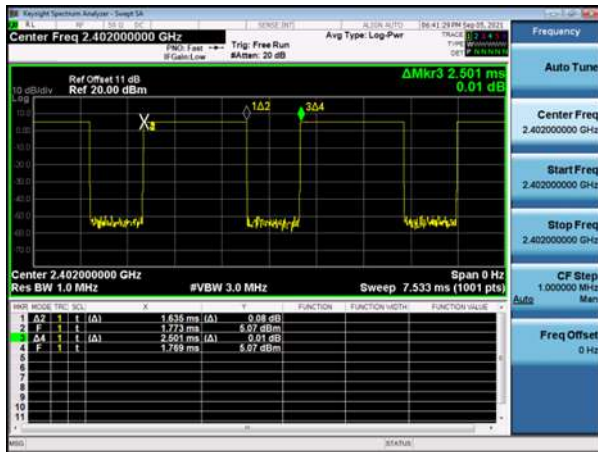
Modulation Type: GFSK (1Mbps)  
Channel: 00

Modulation Type:  $\pi/4$ -DQPSK (2Mbps)  
Channel: 00



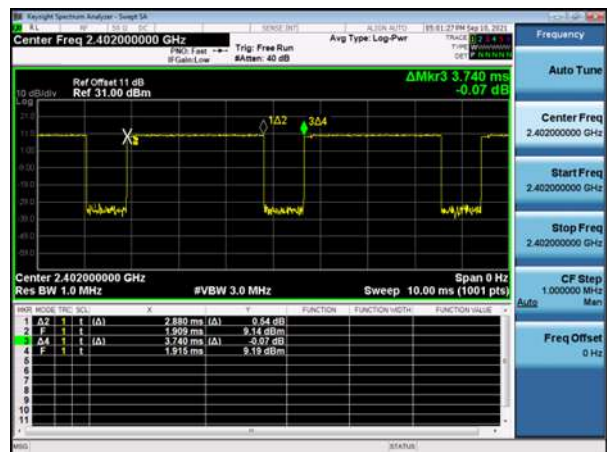
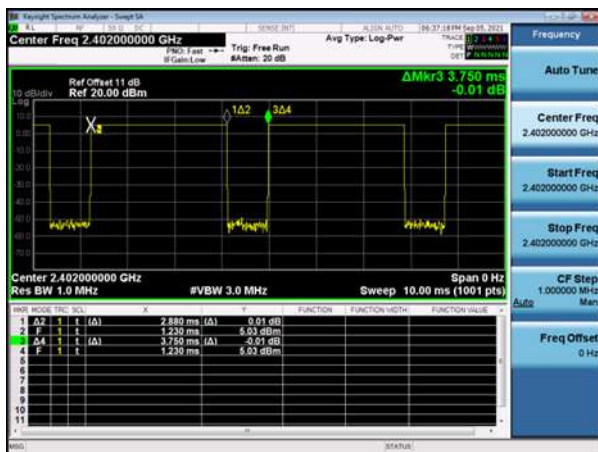
CH39

CH39



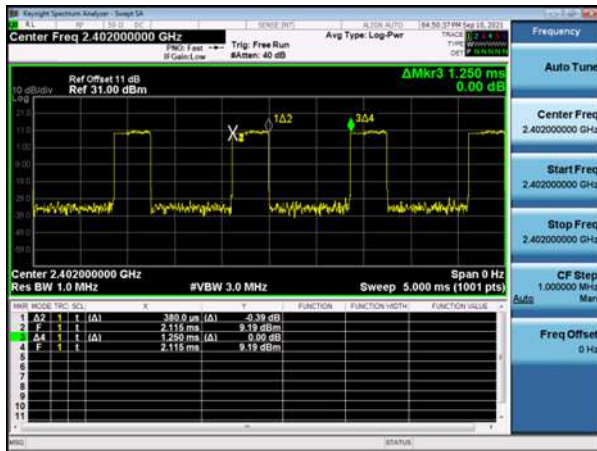
CH78

CH78

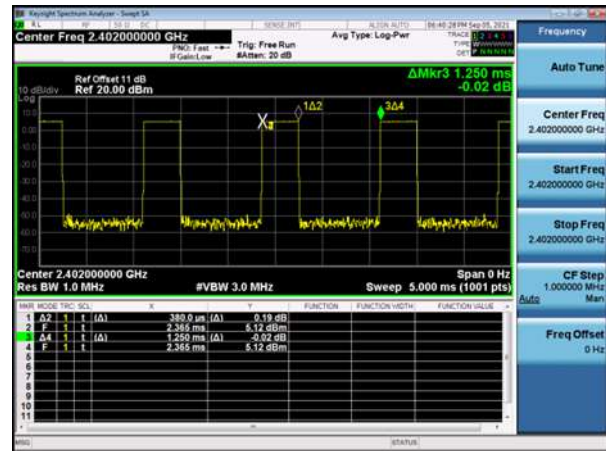




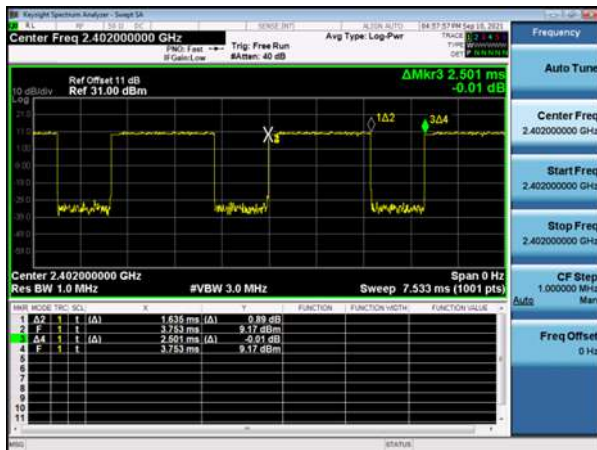
Modulation Type: 8DPSK (3Mbps)  
Channel: 00



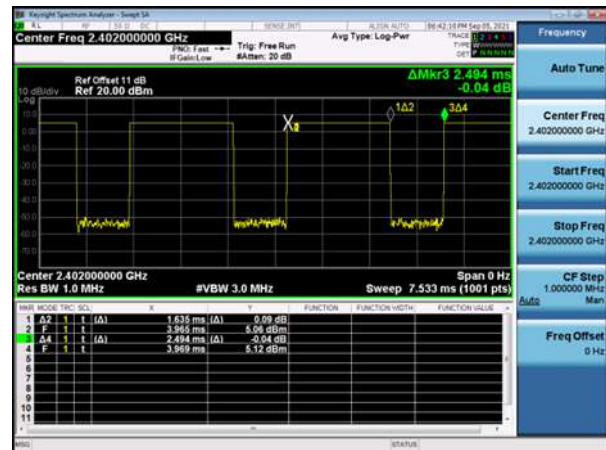
Modulation Type: AFH (DH1)



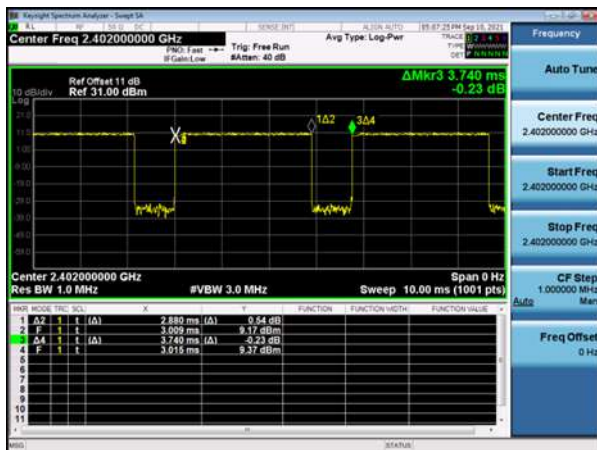
CH39



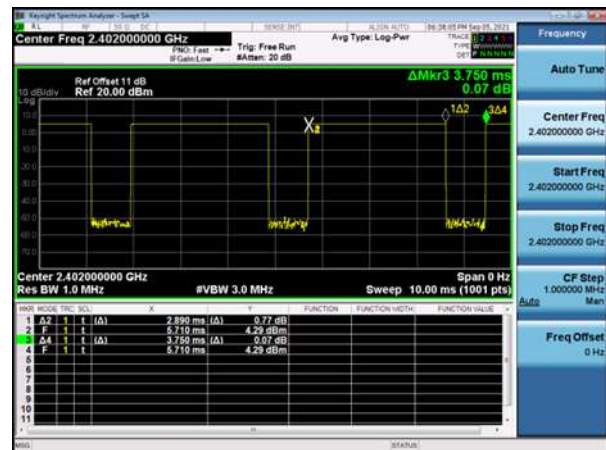
Modulation Type: AFH (DH3)



CH78



Modulation Type: AFH (DH5)





## 11. Number of Hopping Channels

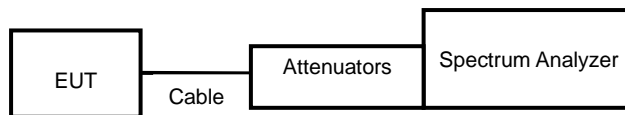
### 11.1 Test Limit

Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels.

### 11.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. 2. Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- c. 3. Set the MaxHold function, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been record.

### 11.3 Test Setup Layout



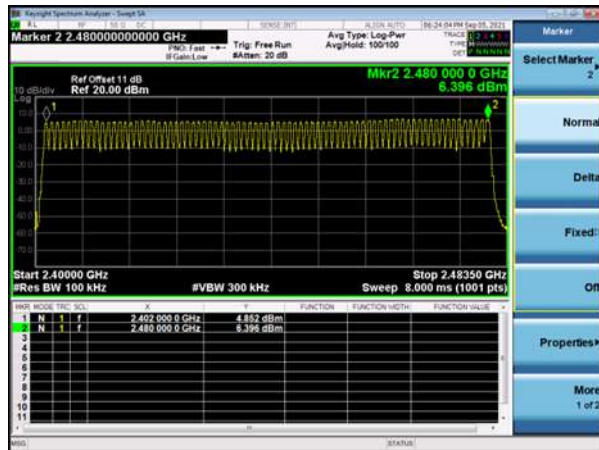
### 11.4 Test Result and Data

Modulation Type	Hopping Channels
GFSK	79
$\pi/4$ -DQPSK	79
8DPSK	79

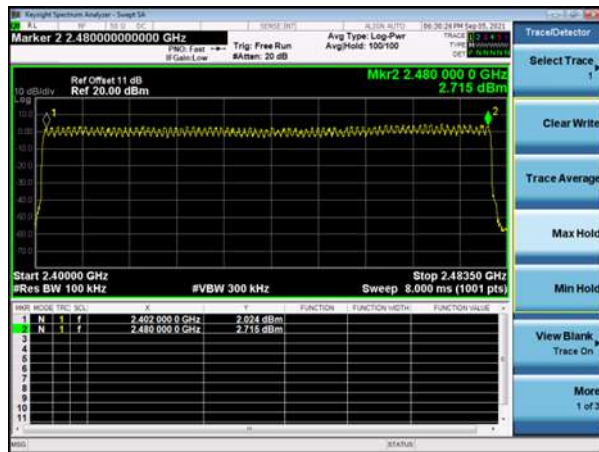




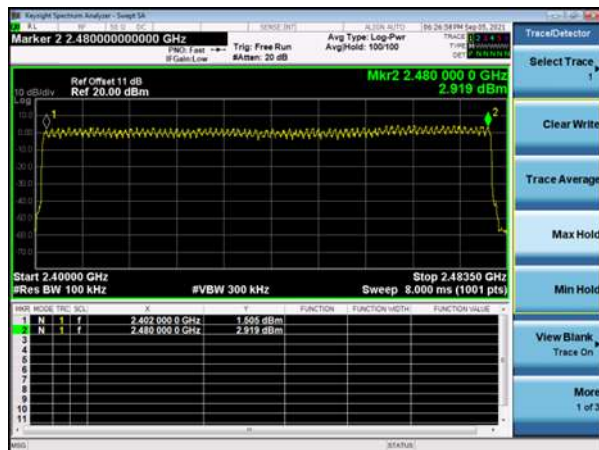
Modulation Type: GFSK (1Mbps)



Modulation Type:  $\pi/4$ -DQPSK (2Mbps)



Modulation Type: 8DPSK (3Mbps)





## 12. Maximum Peak Output Power

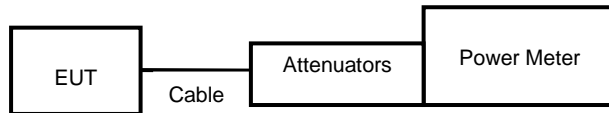
### 12.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

### 12.2 Test Procedures

The antenna port( RF output )of the EUT was connected to the input( RF input )of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

### 12.3 Test Setup Layout



**12.4 Test Result and Data**

Modulation Type	Setting	Channel	Frequency (MHz)	PK Output Power (dBm)	PK Output Power (mW)
GFSK	9	0	2402	10.83	12.106
	9	39	2441	10.08	10.186
	9	78	2480	9.98	9.954
$\pi/4$ -DQPSK	9	0	2402	10.70	11.749
	9	39	2441	9.90	9.772
	9	78	2480	9.70	9.333
8DPSK	9	0	2402	10.41	10.990
	9	39	2441	9.32	8.551
	9	78	2480	9.80	9.550

Modulation Type	Setting	Channel	Frequency (MHz)	AV Output Power (dBm)	AV Output Power (mW)
GFSK	9	0	2402	10.71	11.776
	9	39	2441	9.95	9.886
	9	78	2480	9.83	9.616
$\pi/4$ -DQPSK	9	0	2402	8.93	7.816
	9	39	2441	7.87	6.124
	9	78	2480	8.17	6.561
8DPSK	9	0	2402	8.10	6.457
	9	39	2441	6.95	4.955
	9	78	2480	8.26	6.699

\*Note: Average power is for reference only.

## AFH Mode

Modulation Type	Setting	Channel	Frequency (MHz)	PK Output Power (dBm)	PK Output Power (mW)
GFSK	9	0-19	2402-2421	10.81	12.050
$\pi/4$ -DQPSK	9	0-19	2402-2421	10.67	11.668
8DPSK	9	0-19	2402-2421	10.39	10.940

## AFH Mode

Modulation Type	Setting	Channel	Frequency (MHz)	AV Output Power (dBm)	AV Output Power (mW)
GFSK	9	0-19	2402-2421	10.68	11.695
$\pi/4$ -DQPSK	9	0-19	2402-2421	8.91	7.780
8DPSK	9	0-19	2402-2421	8.07	6.412

\*Note: Average power is for reference only.