



FCC RADIO TEST REPORT

Applicant	:	Acer India PVT Limited
Address	:	Acer India PVT Limited, 6th Floor, Embassy Heights, No. 13, Magrath Road, Bangalore- 560025, India
Equipment	:	Wifi module
		WXT2JM2511, WXT2JM2511(ACER ALTOS EZBA65), WXT2JM2511(ACER ALTOS EZB65), WXT2JM2511(ALTOS EZBA65), WXT2JM2511(ALTOS EZB65), WXT2JM2511(ACER ALTOS EZBA75), WXT2JM2511(ACER ALTOS EZB75), WXT2JM2511(ALTOS EZBA75),
Model No.	:	WXT2JM2511(ALTOS EZB75), WXT2JM2511(ACER ALTOS EZBA86), WXT2JM2511(ACER ALTOS EZB86), WXT2JM2511(ALTOS EZBA86), WXT2JM2511(ALTOS EZB86), WXT2JM2511(ACER ALTOS EZBA98), WXT2JM2511(ACER ALTOS EZB98), WXT2JM2511(ALTOS EZBA98), WXT2JM2511(ALTOS EZB98)
Trade Name	:	ACER, ALTOS
FCC ID	:	2A94K-WXT2JM2511
Standard	:	FCC part 15 Subpart C §15.247

I HEREBY CERTIFY THAT:

The sample was received on Aug. 05, 2024 and the testing was completed on Aug. 21, 2024 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Leevin Li
Leevin Li /Supervisor



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History of this test report

Version No.	Report No	Date	Description
Rev.01	24080098-DRFCC03	Aug. 26 2024	Initial Issue



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)(2)	. 6dB Bandwidth	PASS
15.247(b)	. Maximum Peak Output Power	PASS
15.247(e)	. Power Spectral Density	PASS

Note: Deviations Yes No

*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.



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Equipment	Wifi module
Model Name	WXT2JM2511, WXT2JM2511(ACER ALTOS EZBA65), WXT2JM2511(ACER ALTOS EZB65), WXT2JM2511(ALTOS EZBA65), WXT2JM2511(ALTOS EZB65), WXT2JM2511(ACER ALTOS EZBA75), WXT2JM2511(ACER ALTOS EZB75), WXT2JM2511(ALTOS EZBA75), WXT2JM2511(ALTOS EZB75), WXT2JM2511(ACER ALTOS EZBA86), WXT2JM2511(ACER ALTOS EZB86), WXT2JM2511(ALTOS EZBA86), WXT2JM2511(ALTOS EZB86), WXT2JM2511(ACER ALTOS EZBA98), WXT2JM2511(ACER ALTOS EZB98), WXT2JM2511(ALTOS EZBA98), WXT2JM2511(ALTOS EZB98)
Model Discrepancy	All models are identical to each other except for model name and trade name. Model WXT2JM2511 is the representative for final test.
Frequency Range	BT/BLE/ WIFI 2.4G: 2400MHz-2483.5MHz WIFI 5G: 5150MHz-5250MHz, 5250MHz-5350MHz, 5470MHz -5725MHz, 5725MHz -5850MHz
Modulation Type	BT: GFSK, π/4-DQPSK, 8DPSK BLE: GFSK 2.4GHz 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 5GHz 802.11a/n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Data Rate	BT: GFSK:1Mbps, π/4-DQPSK: 2Mbps, 8DPSK:3Mbps BLE: GFSK: 1Mbps, 2Mbps, 125kbps, 500kbps WIFI 2.4GHz: 802.11b: 1, 2 ,5.5,11Mbps 802.11g: 6,9,12,18,24,36,48,54Mbps 802.11n: MCS0-MCS15, HT20/HT40 802.11ax: MCS0-MCS11, HE20/HE40 WIFI 5GHz: 802.11a: 6,9,12,18,24,36,48,54Mbps 802.11n: MCS0-MCS15, HT20/HT40 802.11ac: MCS0-MCS9, VHT20/40/80 802.11ax: MCS0-MCS11, HE20/HE40/HE80
Working Temperature	0°C to 60°C
EUT Power Rating:	5V±10%

Note:

1. EUT support Client mode without radar detection.
2. For more details, please refer to the User's manual of the EUT.



2.2 Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
*00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	*19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	*39	2480
12	2426	26	2454	--	--
13	2428	27	2456	--	--

Note: Channels remarked * are selected to perform test.



2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- b. The complete test system included support units and EUT for RF test.
- c. Run the test software “WCN_Combos_Tool.exe (Ver.: W2022)” under Windows 10 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
Mode 1	GFSK (1Mbps) for AC120V
Mode 2	GFSK (2Mbps) for AC120V
Mode 3	GFSK (125Kbps) for AC120V
Mode 4	GFSK (500Kbps) for AC120V
Mode 5	GFSK (2Mbps) for AC240V

caused “Test Mode 2 and CH00:2480” generated the worst case, it was reported as the final data.

Radiation Emissions (Below 1GHz)	
Test Mode	Operating Description
Mode 1	GFSK (1Mbps)
Mode 2	GFSK (2Mbps)
Mode 3	GFSK (125Kbps)
Mode 4	GFSK (500Kbps)

caused “Test Mode 2 and CH00:2480” generated the worst case, it was reported as the final data.

Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
Mode 1	GFSK (1Mbps)
Mode 2	GFSK (2Mbps)
Mode 3	GFSK (125Kbps)
Mode 4	GFSK (500Kbps)

caused “Test Mode 1~4” generated the worst case, they were reported as the final data.



2.4 Power Parameter Value of the test software

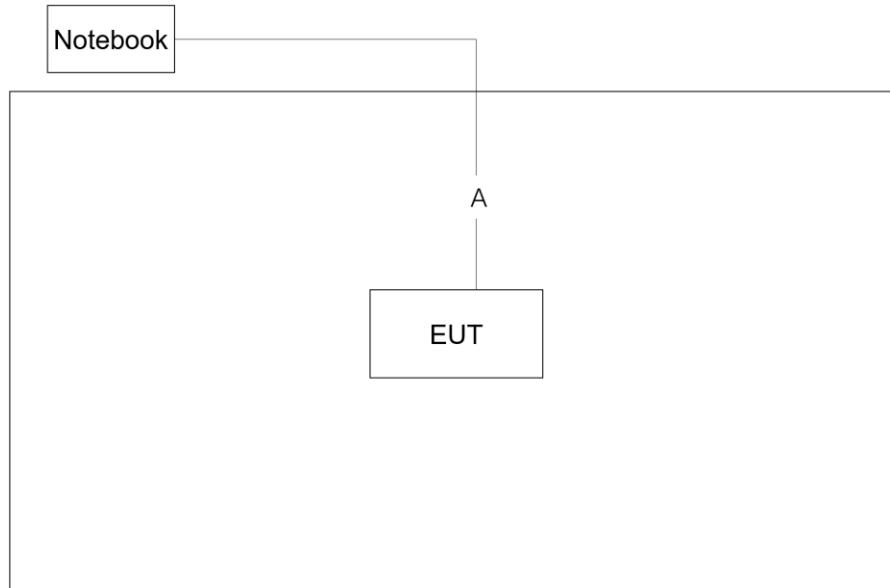
Mode	Frequency (MHz)	Power Setting
GFSK (1Mbps)	2402	7
	2440	7
	2480	7
GFSK (2Mbps)	2402	7
	2440	7
	2480	7
GFSK (125Kbps)	2402	7
	2440	7
	2480	7
GFSK (500Kbps)	2402	7
	2440	7
	2480	7



2.5 Description of Test System

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Notebook	SONY	PCG-71811P	27544574 7000251	Non-Shielded, 1.8m

Connection Diagram



Signal Cable Type	Quantity	Signal cable Description
A	1	USB Cable 5.0m Shielding



2.6 General Information of Test

Test Site	Cerpass Technology Corporation(Cerpass Laboratory) Address: Room 102, No. 5, Xing'an Road, Chang'an Town, Dongguan City, Guangdong Province Tel: +86-769-8547-1212 Fax: +86-769-8547-1912
FCC Designation No.:	CN1288
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 9 kHz 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-DG	2024/08/13	24°C / 55%	Amos Zhang
Radiated Emissions	3M01-DG	2024/08/12~2024/08/21	23~25°C / 50~58%	Amos Zhang
AC Power Line Conducted Emission	CON02-DG	2024/08/14	22°C / 60%	Amos Zhang

2.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2).

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±2.60dB
Radiated Spurious Emission(9KHz~30MHz)	±4.10dB
Radiated Spurious Emission(30MHz~1GHz)	±4.51dB
Radiated Spurious Emission(1GHz~18GHz)	±5.36dB
Radiated Spurious Emission(18GHz~40GHz)	±5.43dB
6dB Bandwidth&20dB Bandwidth	±4.8%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±0.94dB
Power Spectral Density	±1.01dB
Dwell Time / Deactivation Time	±3.5%



3. Test Equipment and Ancillaries Used for Tests

AC Power Line Conducted Emission					
Test Site	CON02-DG				
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
ESR·EMI TEST RECEIYER	R&S	ESR3	102728	2024/08/01	2025/07/31
Two-Line V-Network	R&S	ENV216	100325	2024/08/01	2025/07/31
LISN	SCHWARZBECK	NSLK 8127	8127749	2024/08/01	2025/07/31
Cable	Aoda	RG214	Cable-07	2024/08/01	2025/07/31
Temperature/ Humidity Meter	GEMLEAD	STH200A	N/A	2024/08/02	2025/08/01
Software	AUDIX	E3	Version: 8.14806b	N/A	N/A

Radiated Emissions					
Test Site	3M01-DG				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Test Receiver	R&S	ESCI	100565	2024/08/01	2025/07/31
Amplifier	EMCI	EMC330	980082	2024/01/03	2025/01/02
Loop Antenna	R&S	HFH2-Z2	100150	2024/01/03	2026/01/02
Bilog Antenna	Sunol Science	JB1	A072414-3	2023/06/18	2025/06/17
Preamplifier	Agilent	8449B	3008A02342	2024/08/01	2025/07/31
Preamplifier	COM-POWER	PA-840	711885	2024/01/03	2025/01/02
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120 D	9120D-619	2024/01/03	2026/01/02
Standard Gain Horn Antenna	TRC	HA-2640	18050	2024/01/03	2026/01/02
Standard Gain Horn Antenna	TRC	HA-1726	18051	2024/01/03	2026/01/02
FSQ Signal Analyzer	R&S	FSQ40	200012	2024/01/03	2025/01/02
Cable	EMCI	EM104-NM SM-8.5M	Cable-03	2024/08/01	2025/07/31
Cable	Jiuzhoubona	T-SMA	SMA48AL-70 00	2024/08/01	2025/07/31
Cable	CH-CoDesigh	CCXA81-S MAMNM-1 M	Cable-05	2024/08/01	2025/07/31
Cable	CH-CoDesigh	CCXA40-2.92-2.92-1M	21071954	2024/08/02	2025/08/01
Cable	CH-CoDesigh	CCX40-2.92 M-2.92M-9 M	21070892	2024/08/02	2025/08/01
Temperature/ Humidity Meter	GEMLEAD	STH200A	N/A	2024/08/02	2025/08/01
Software	AUDIX	E3	Version: 8.14806b	N/A	N/A



RF Conducted					
Test Site	RFC01-DG				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
MXA Signal Analyzer	KEYSIGHT	N9020A	US46220290	2024/01/03	2025/01/02
EXA Signal Analyzer	KEYSIGHT	N9010A	MY53400169	2024/01/03	2025/01/02
ESG VECTOR SIGNAL GENERATOR	Agilent	E4438C	MY45092582	2024/01/03	2025/01/02
MXG VECTOR SIGNAL GENERATOR	Agilent	N5182B	MY53050127	2024/01/03	2025/01/02
USB Wideband Power Sensor	Boonton	55006	9778	2024/08/02	2025/08/01
Temperature/ Humidity Meter	mingle	ETH529	N/A	2024/01/03	2025/01/02



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	Antenna Gain
PIFA Antenna	4.01dBi



5. Test of Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 6.2.2. 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 μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

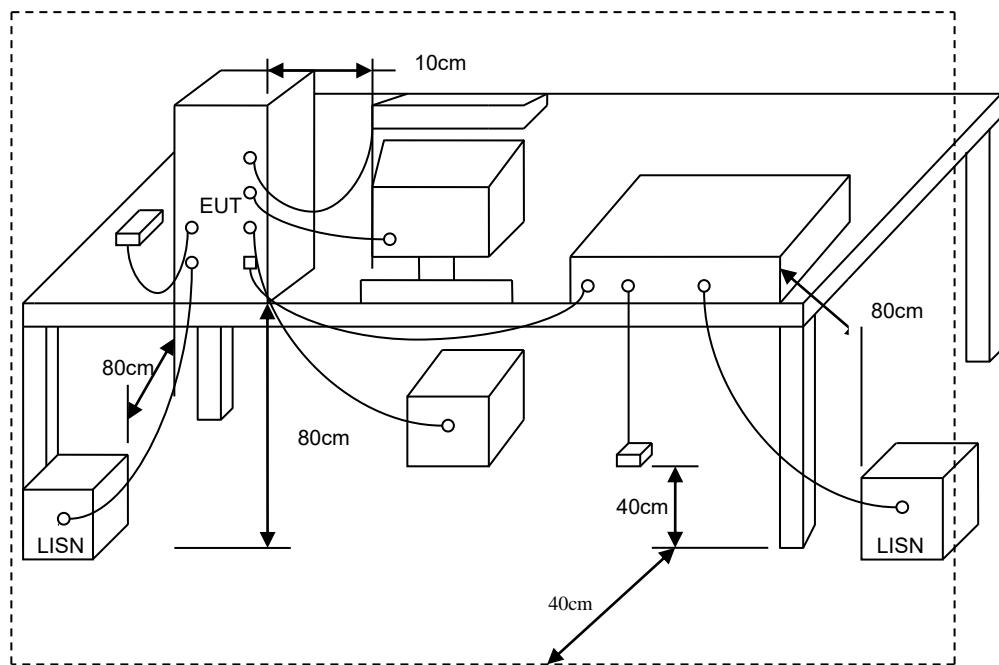
*Decreases with the logarithm of the frequency.

5.2 Test Procedures

- a. 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.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

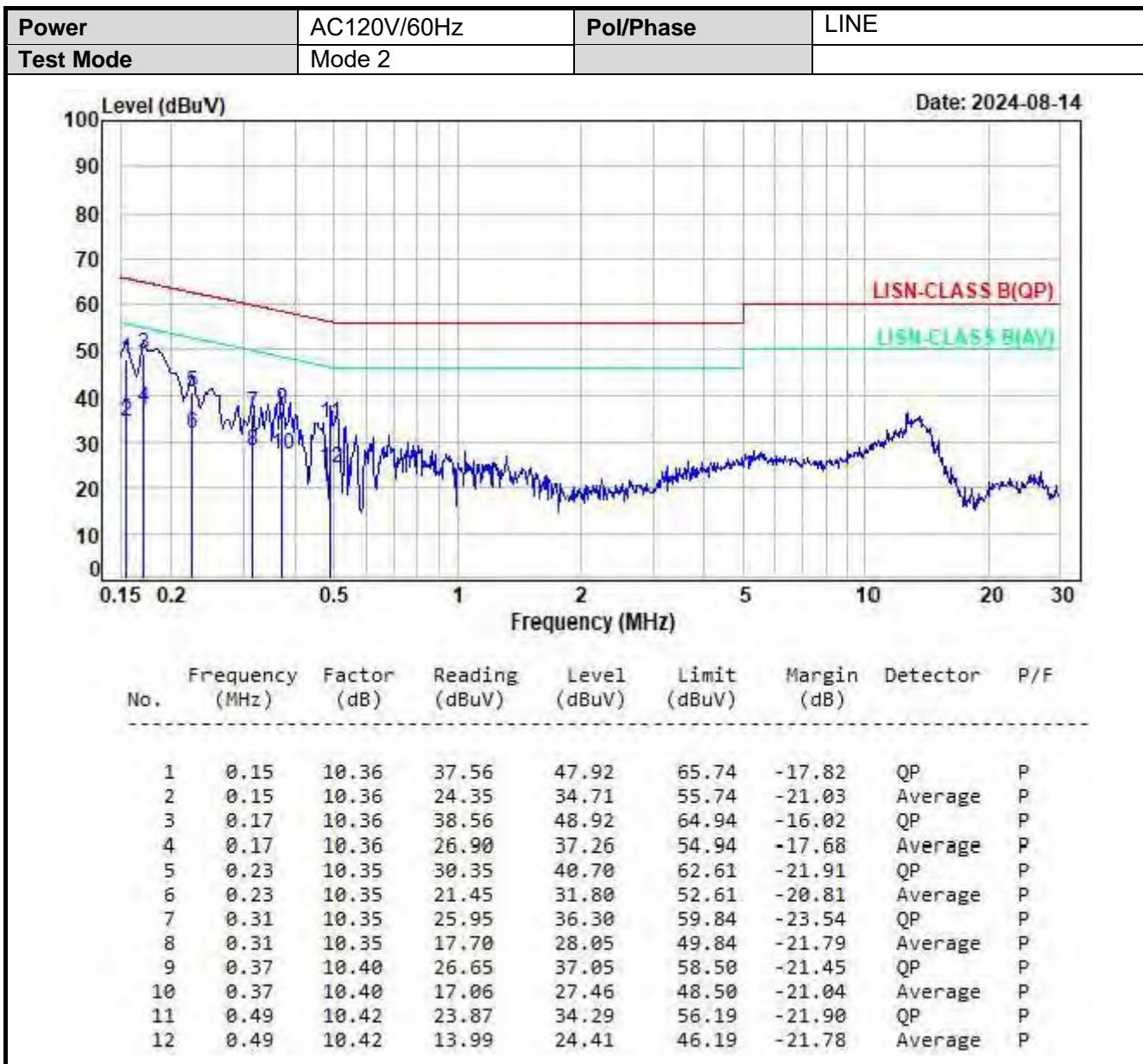


5.3 Typical Test Setup





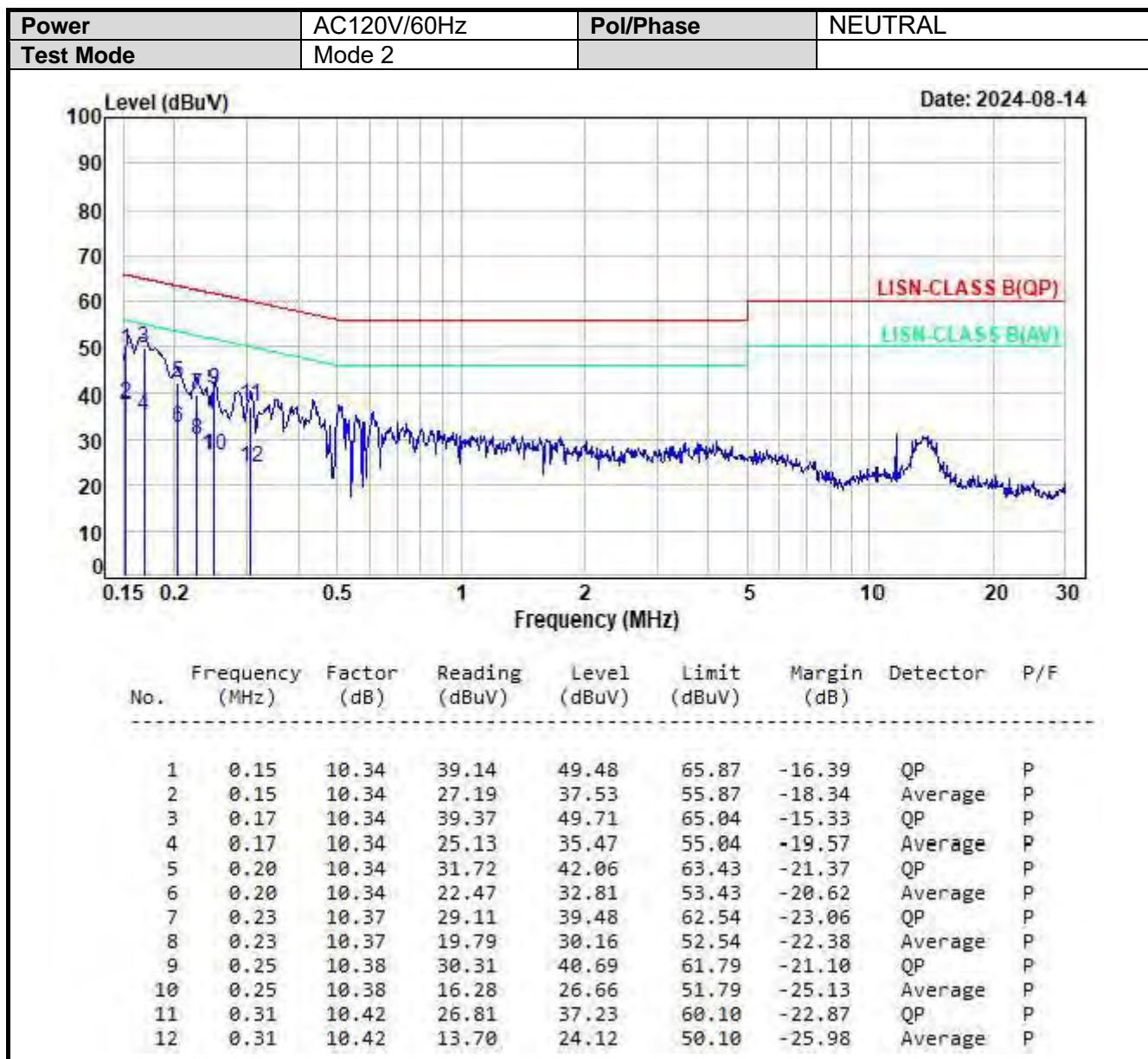
5.4 Test Result and Data



Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or Current Probe) Factor + Cable Loss + Attenuator



Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or Current Probe) Factor + Cable Loss + Attenuator



6. Test of Spurious Emission (Radiated)

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

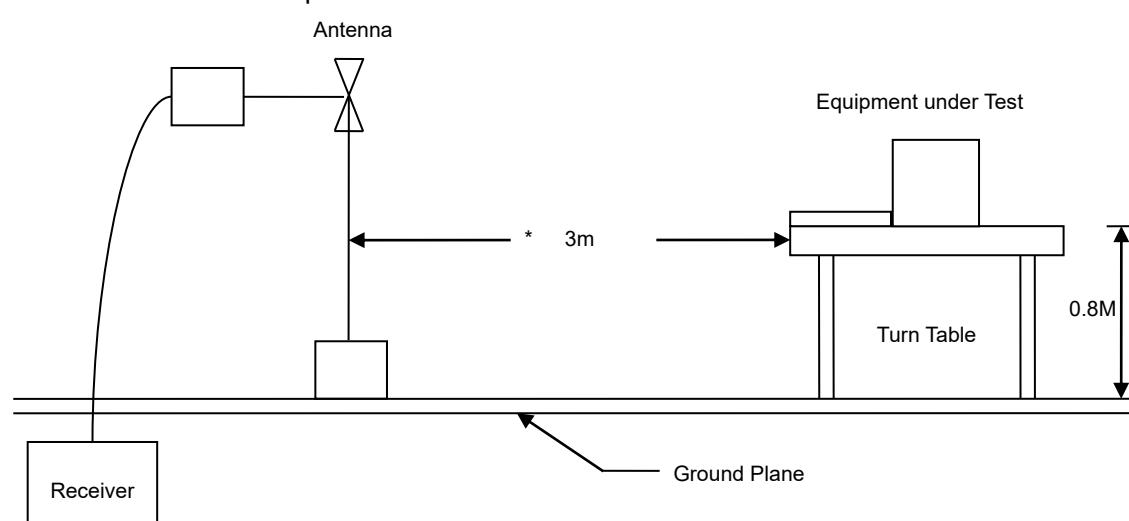
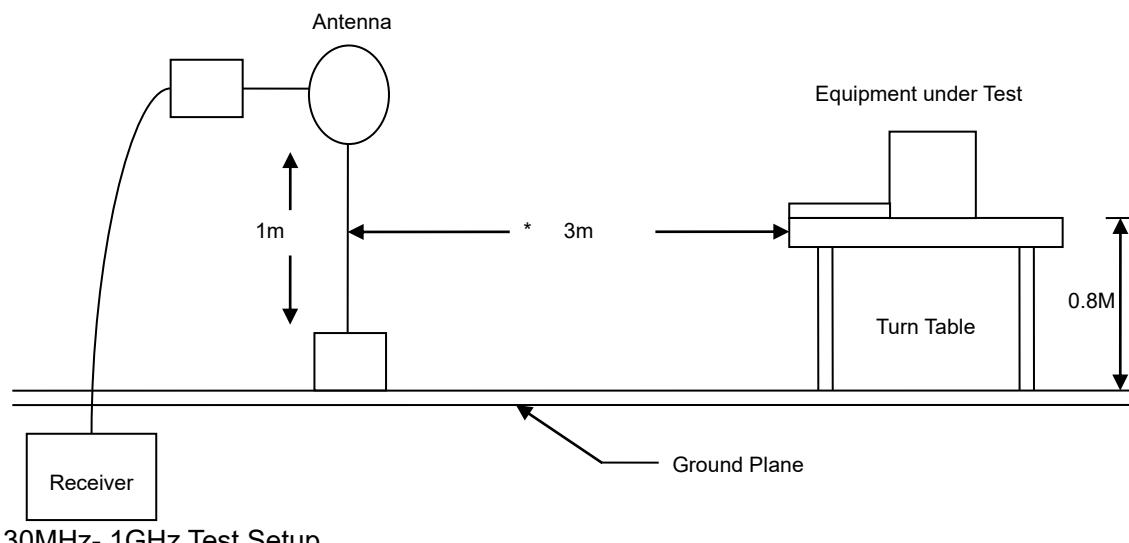
- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.(X AXIS is the worst.)

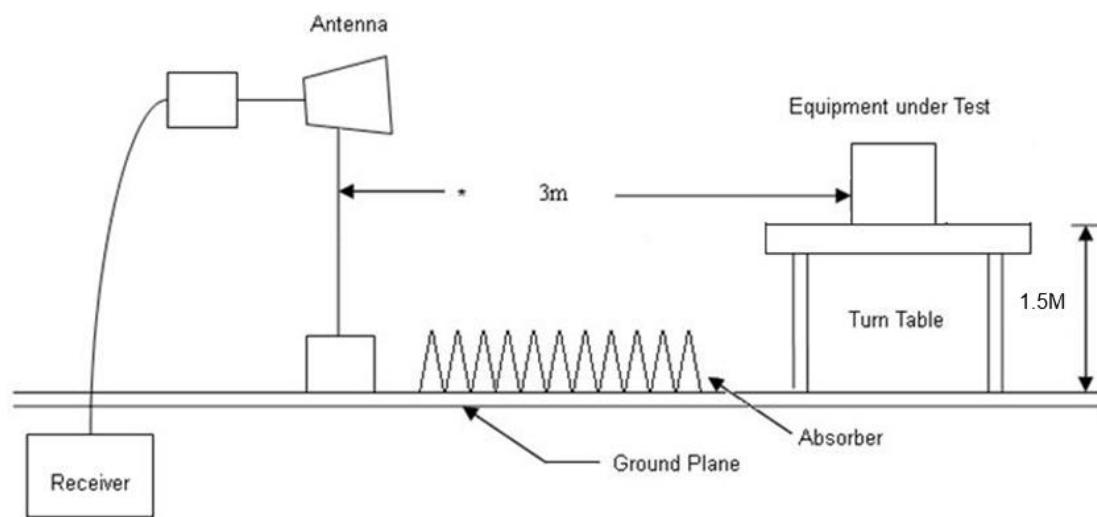


6.3 Typical Test Setup

Below 30MHz test setup



Above 1GHz Test Setup

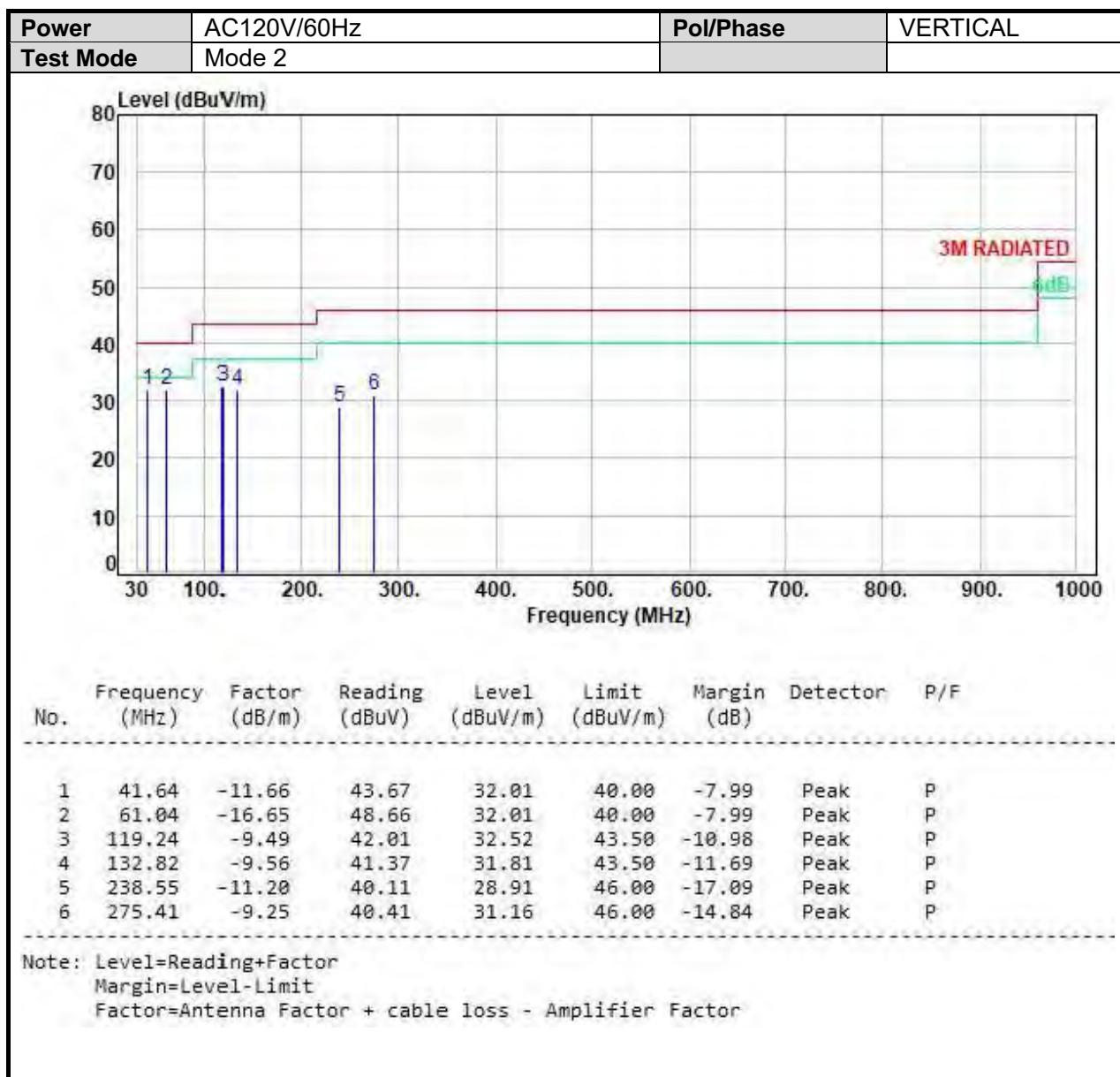


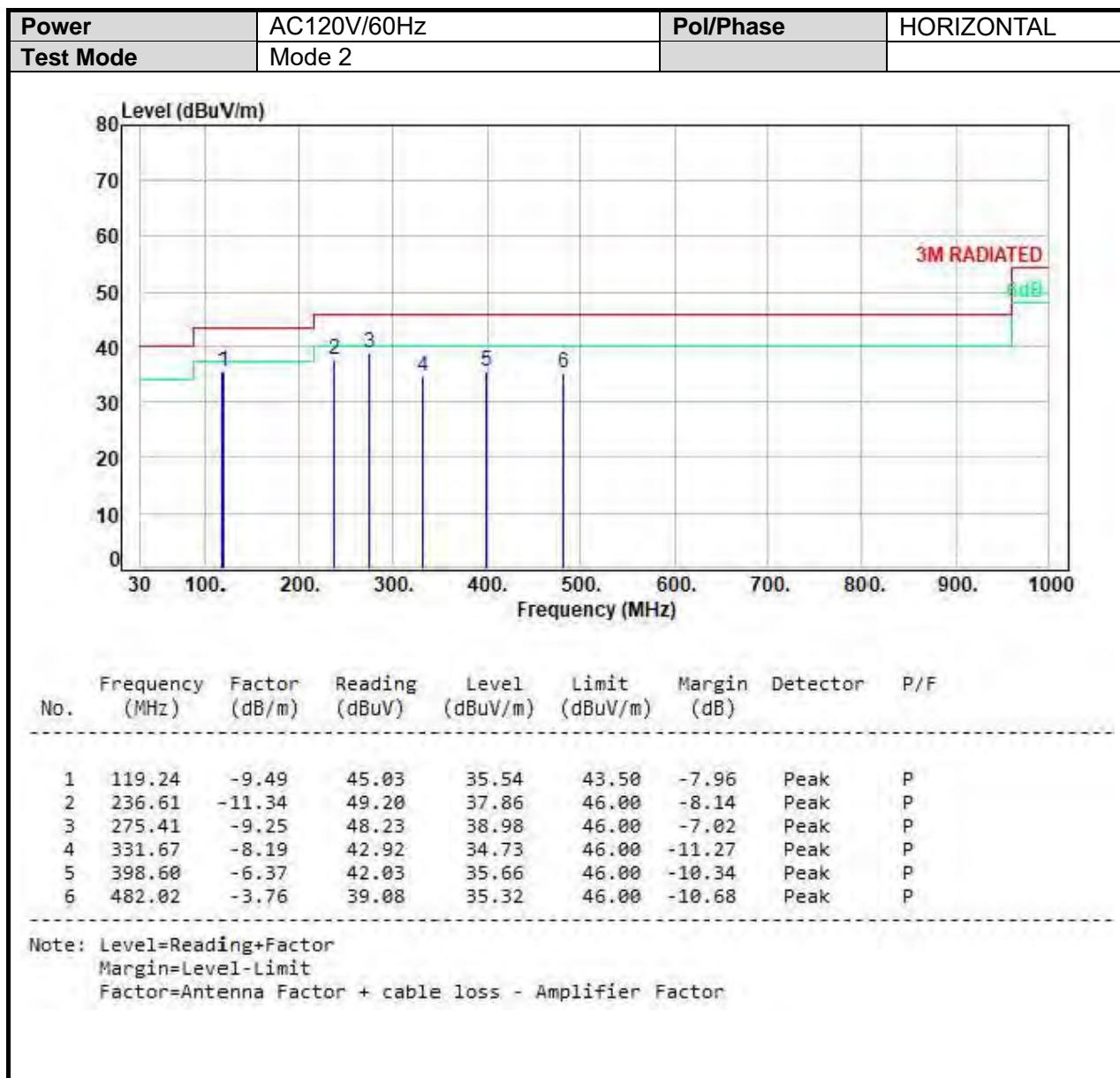


6.4 Test Result and Data (9kHz ~ 30MHz)

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

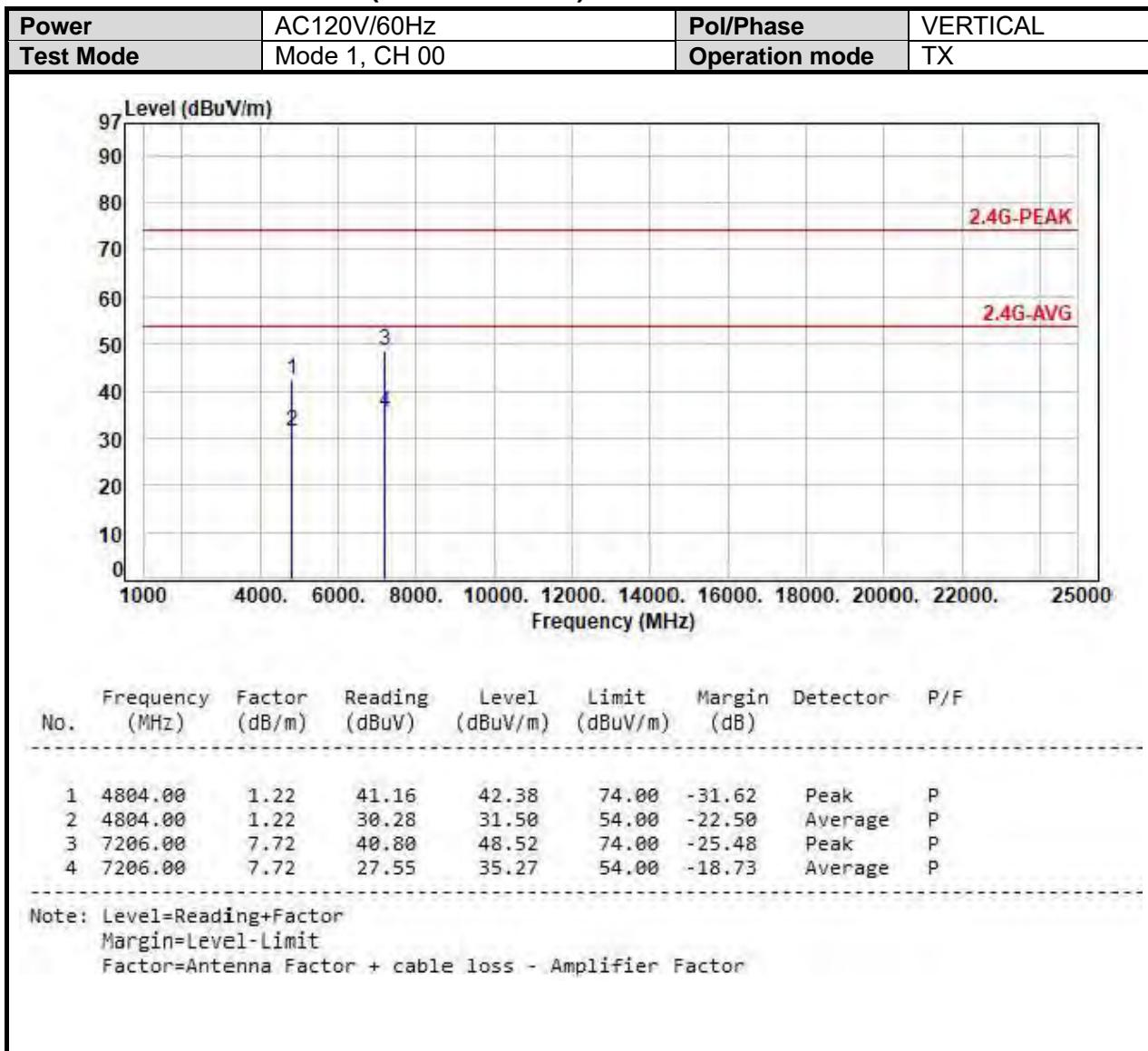
6.5 Test Result and Data (30MHz ~ 1GHz)

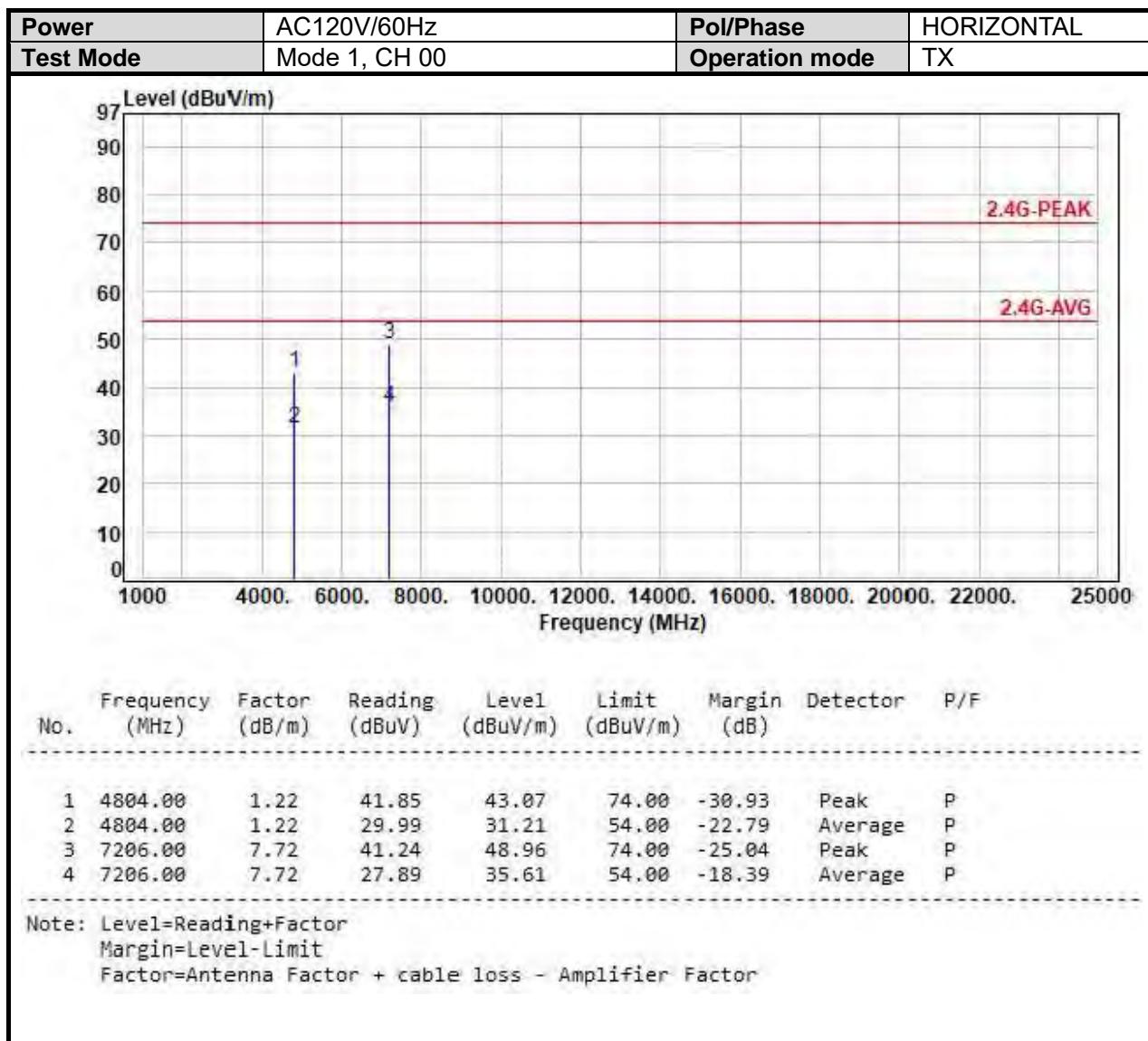


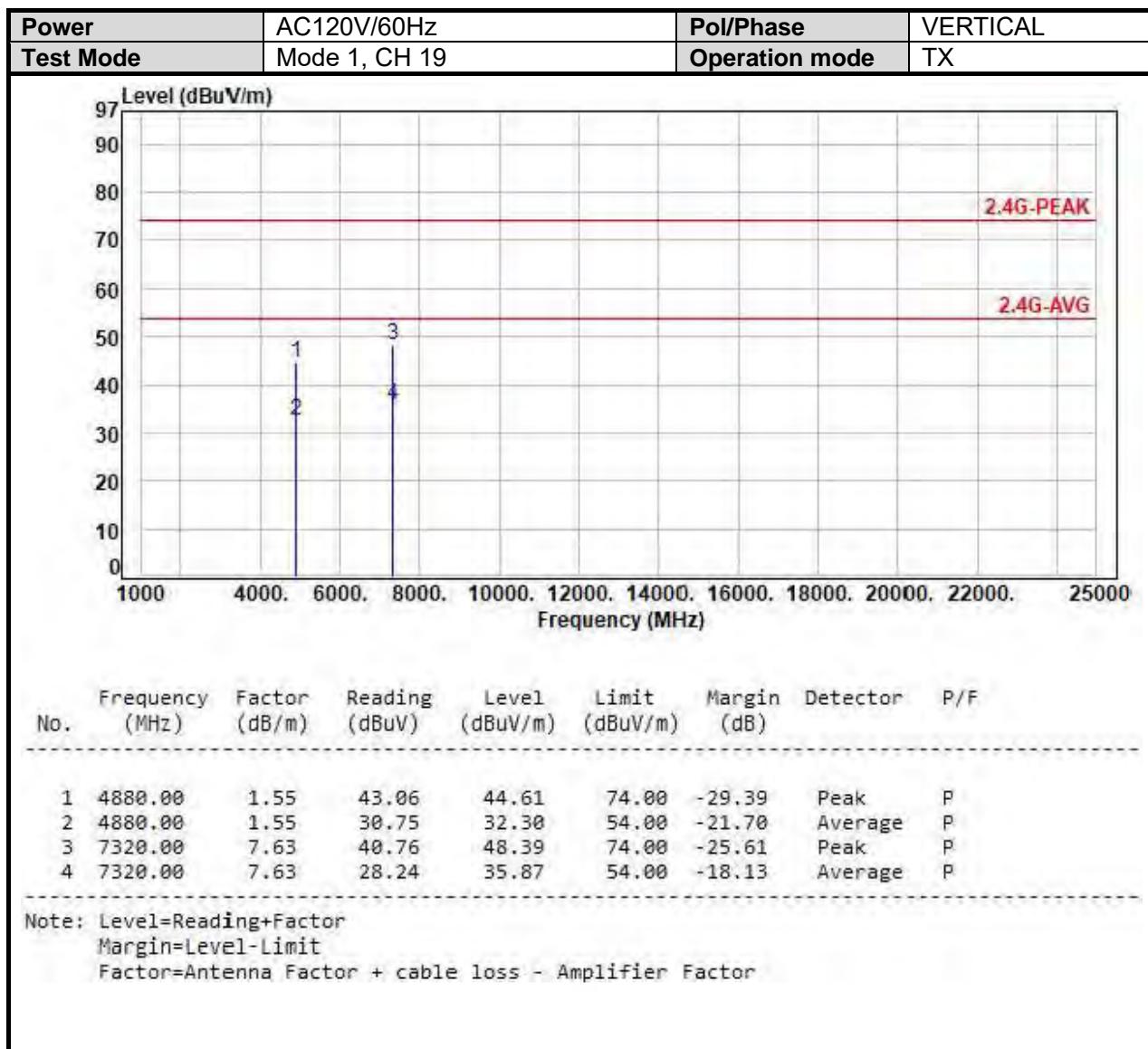


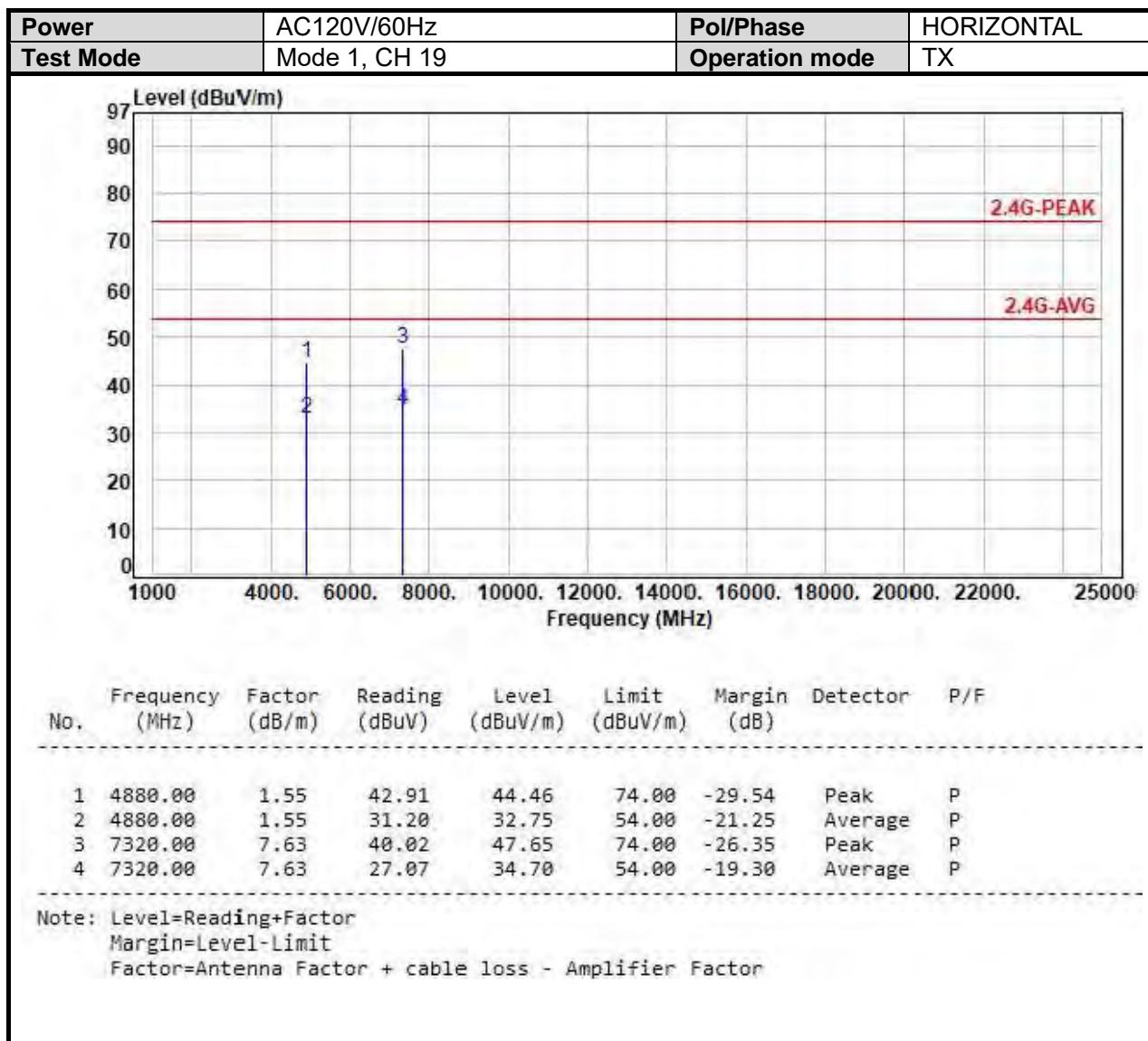


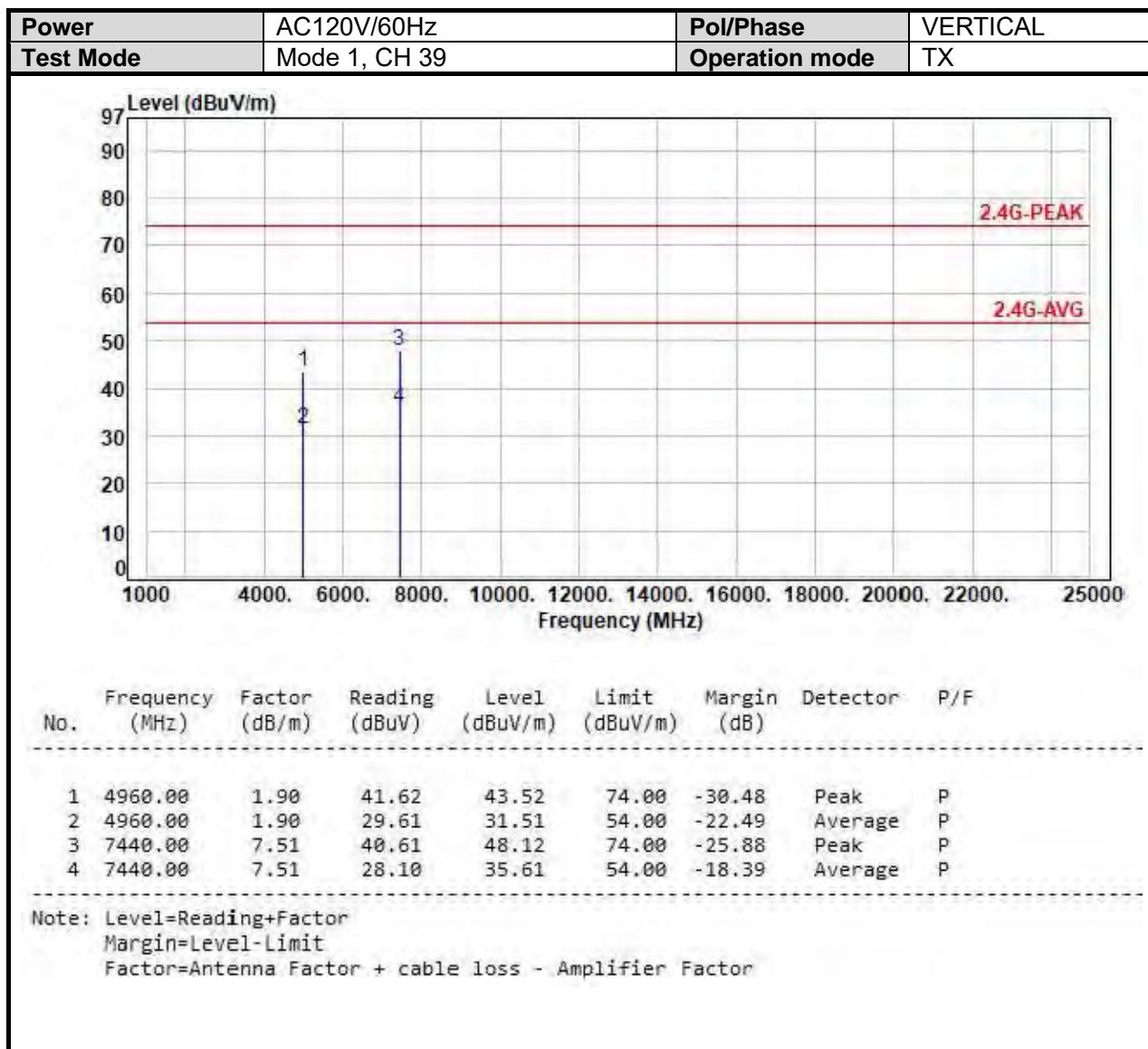
6.6 Test Result and Data (1GHz ~ 25GHz)

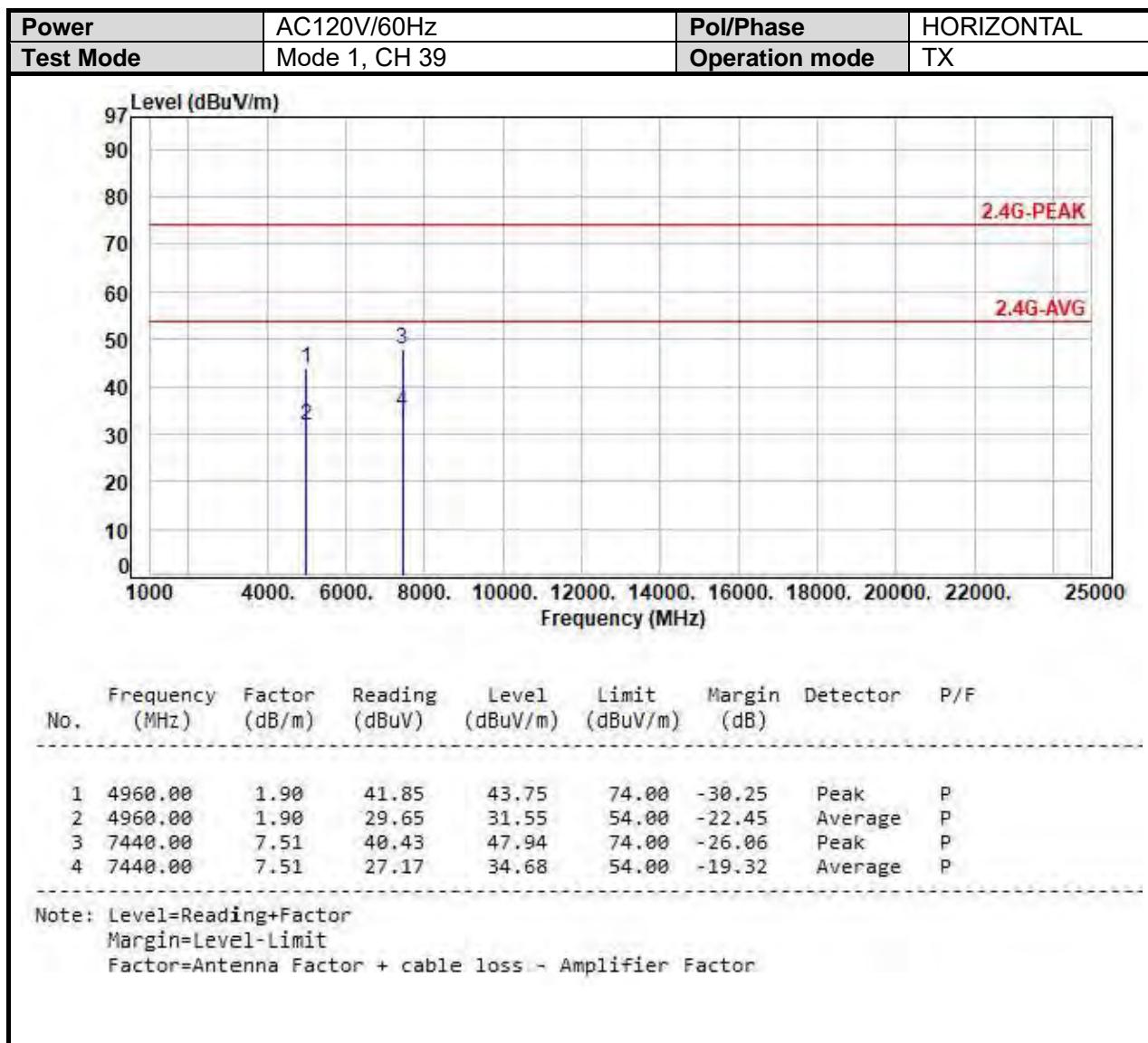


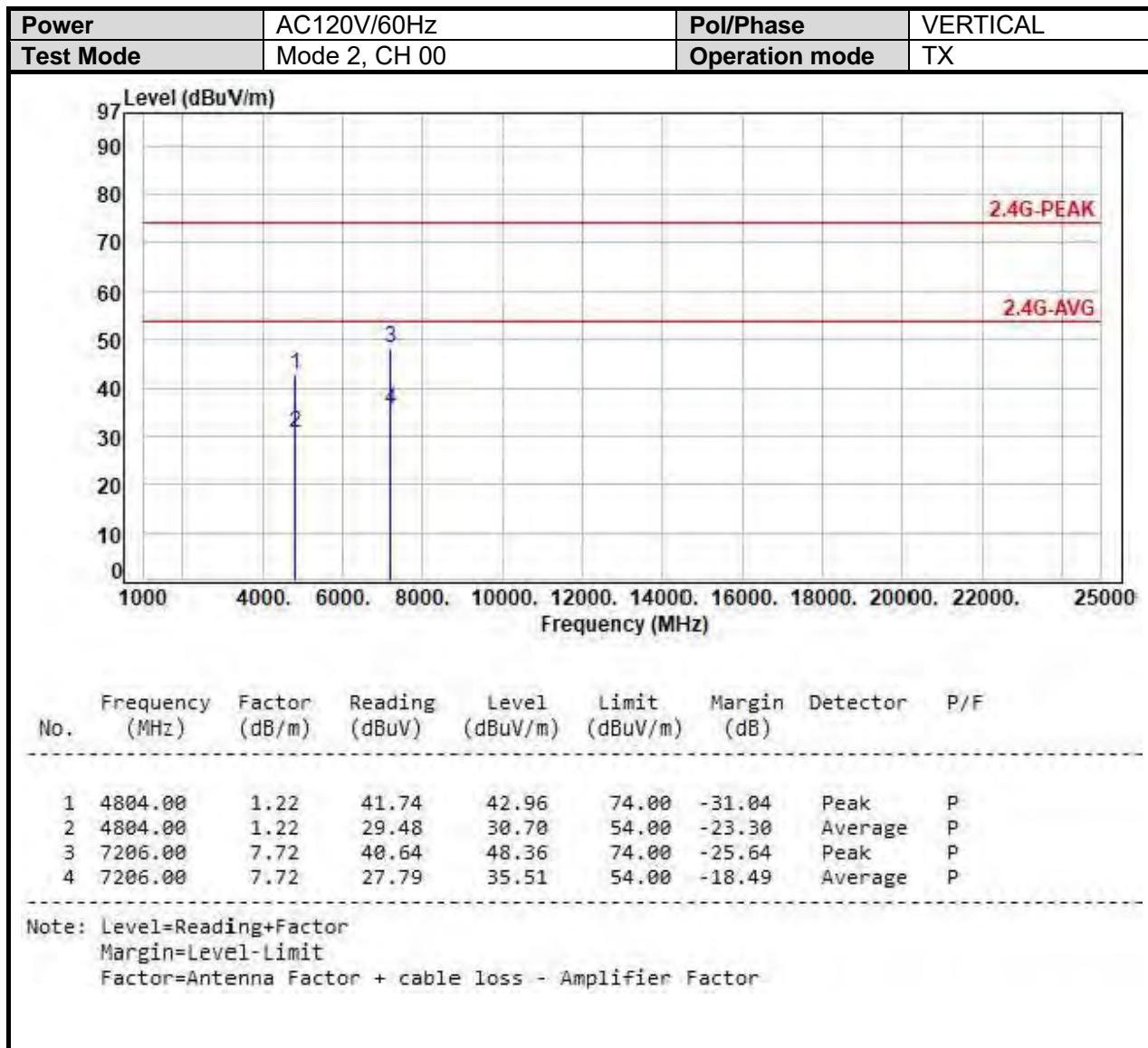


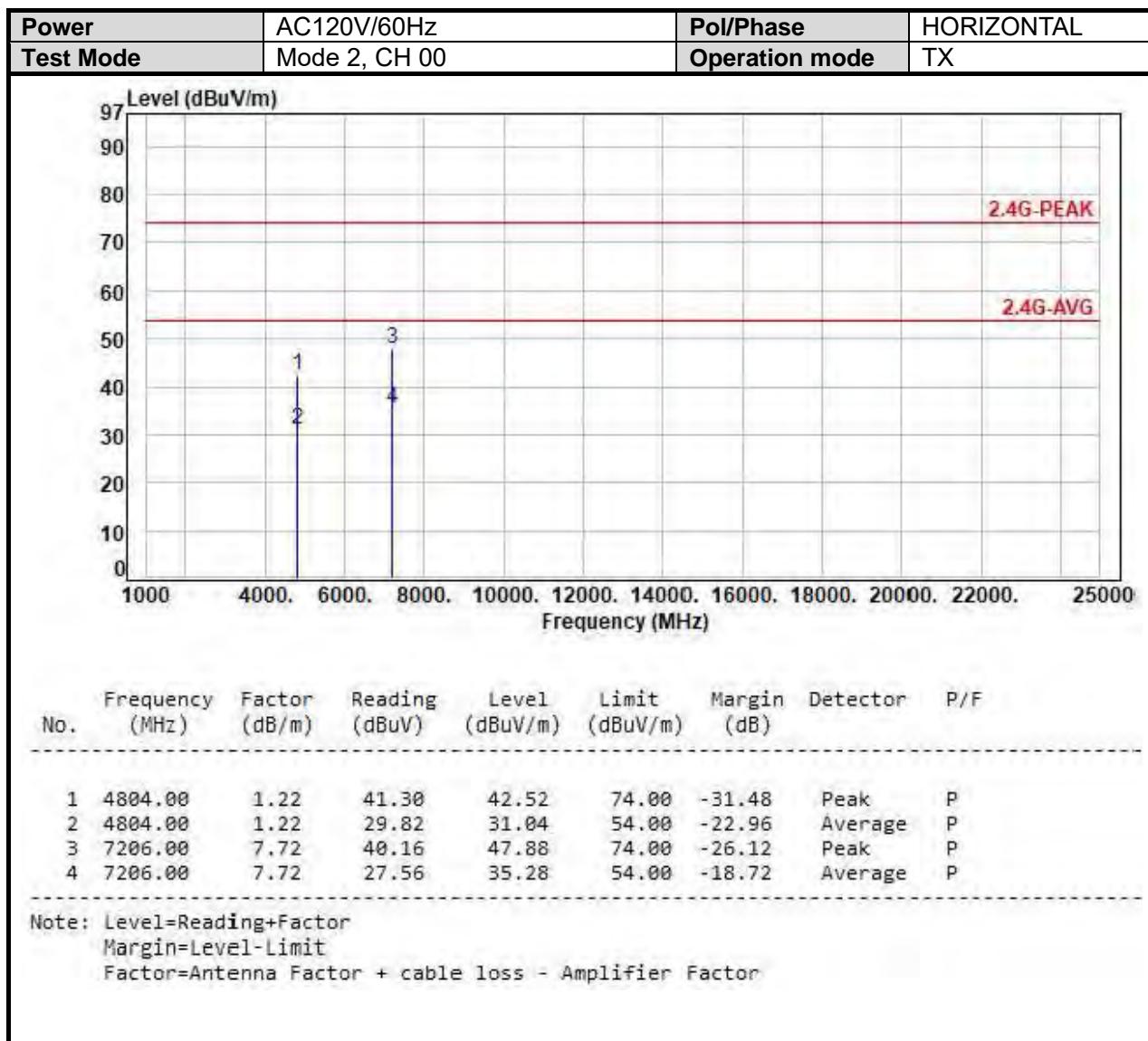


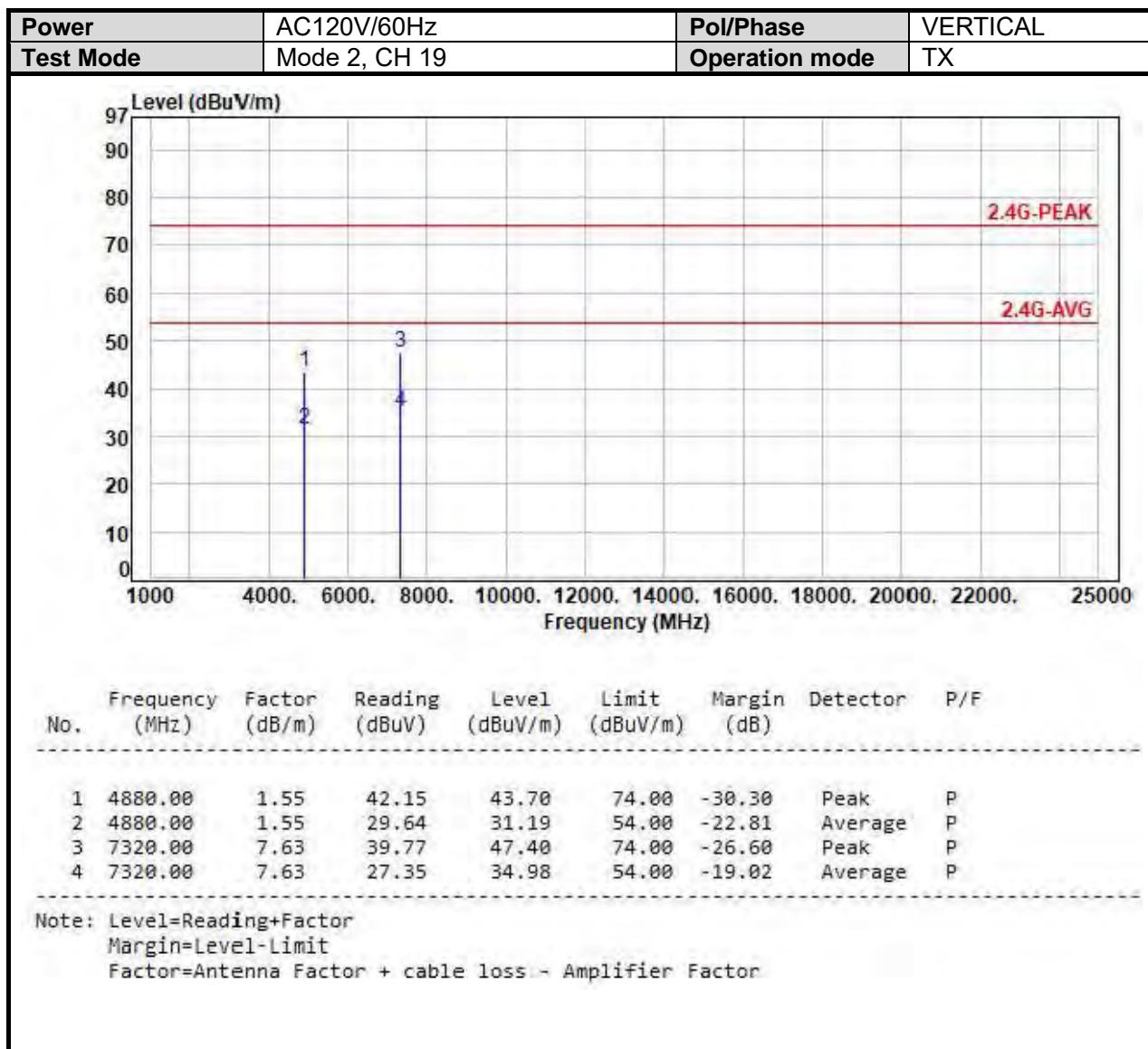


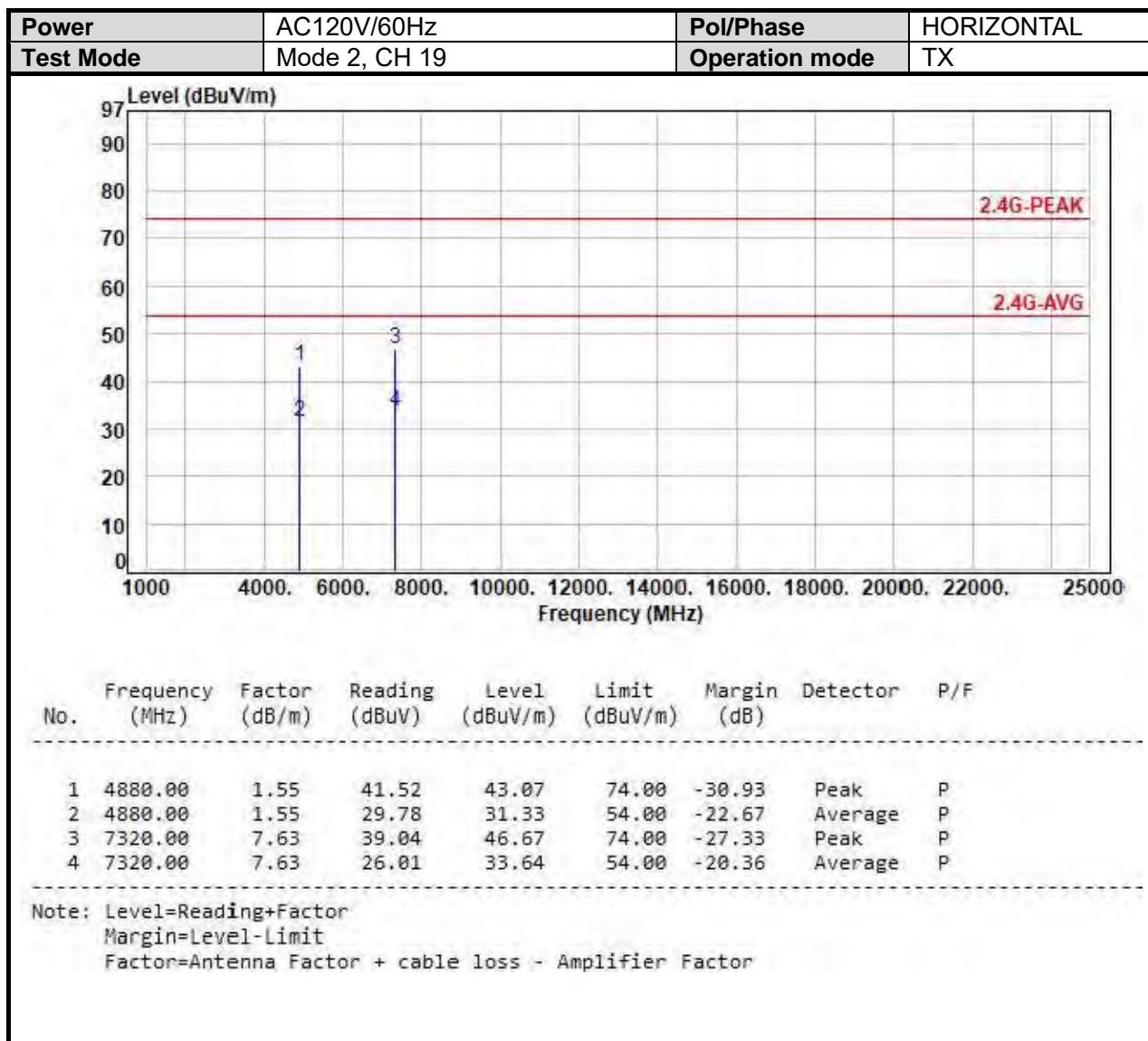


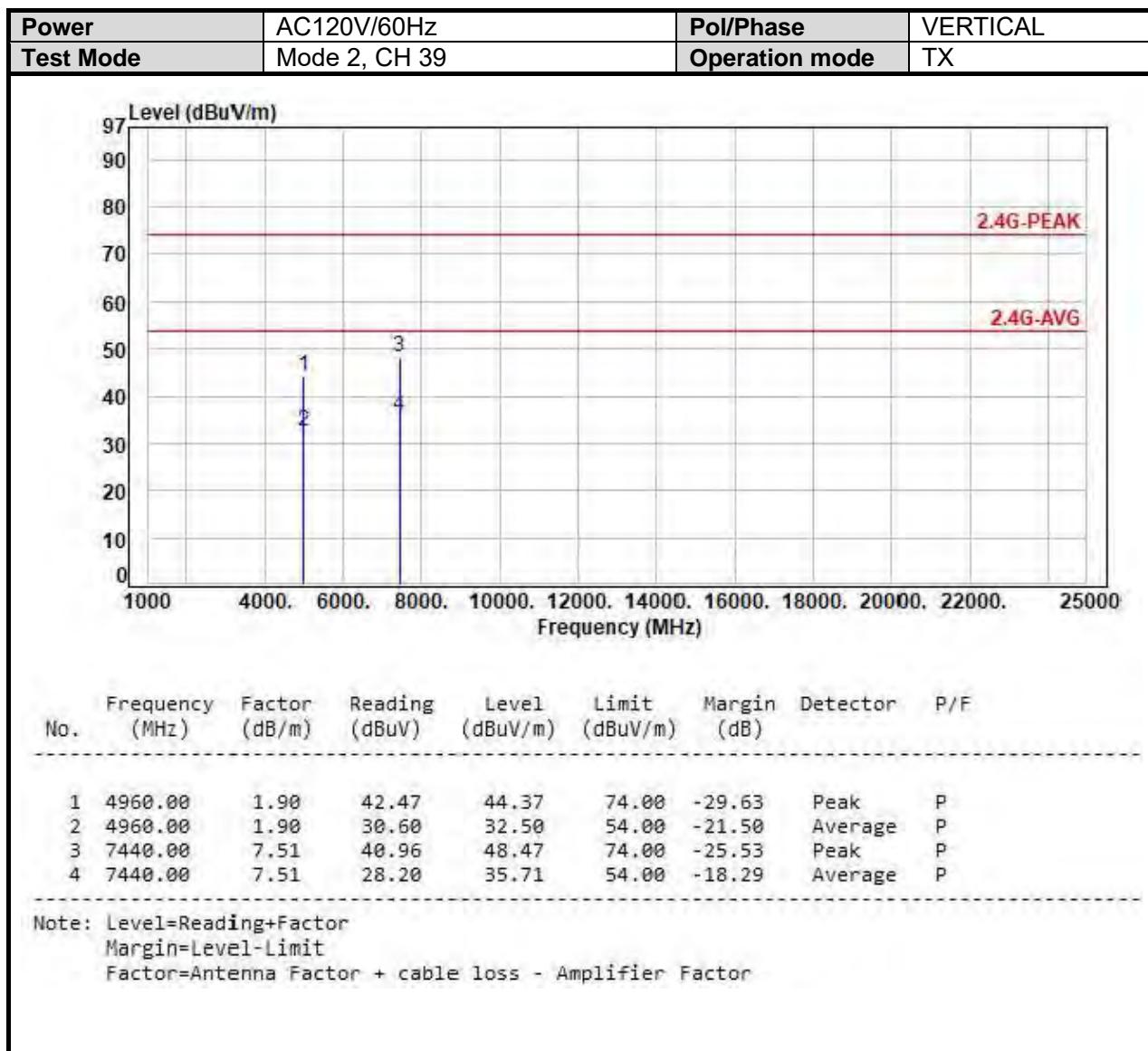


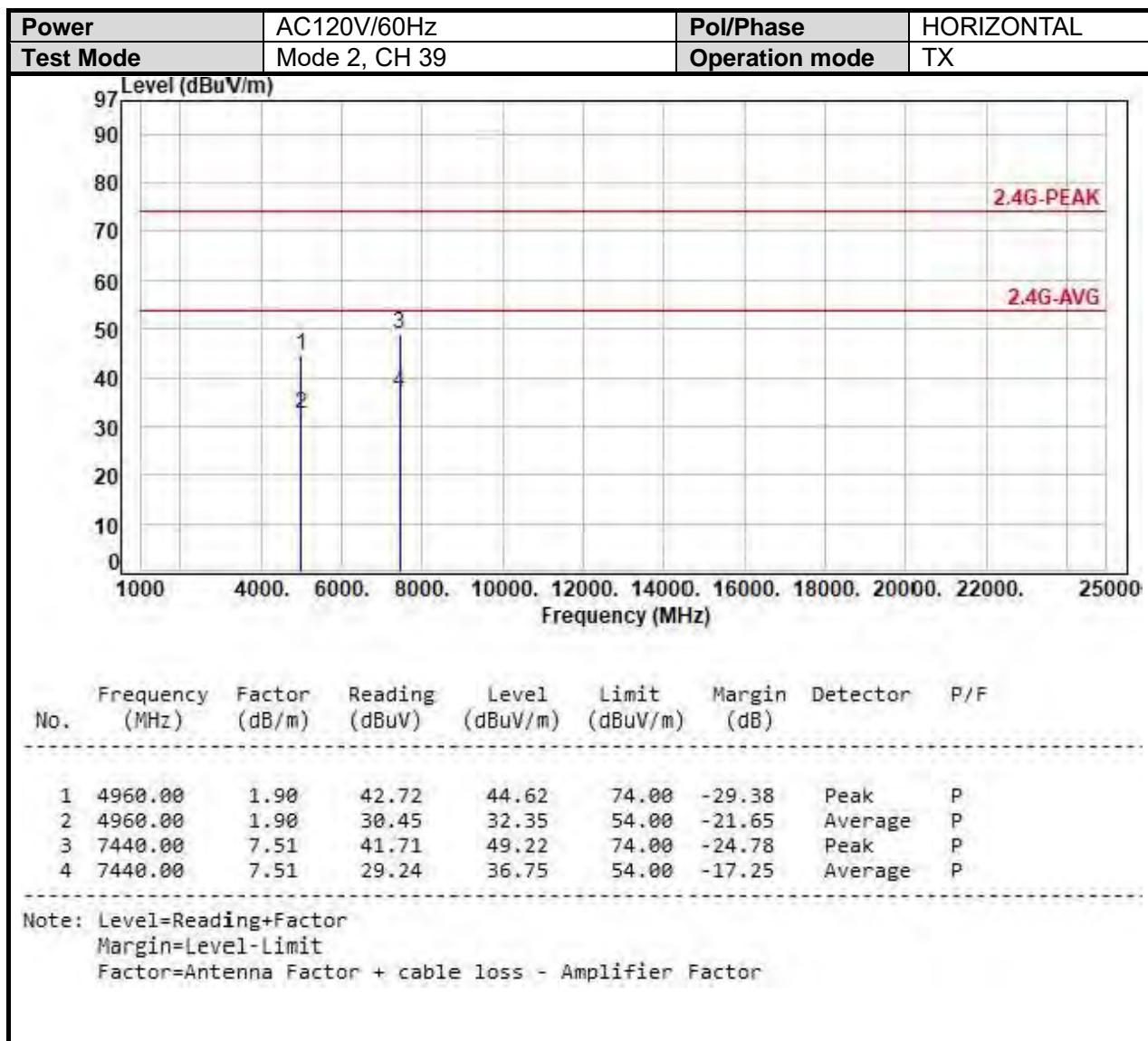


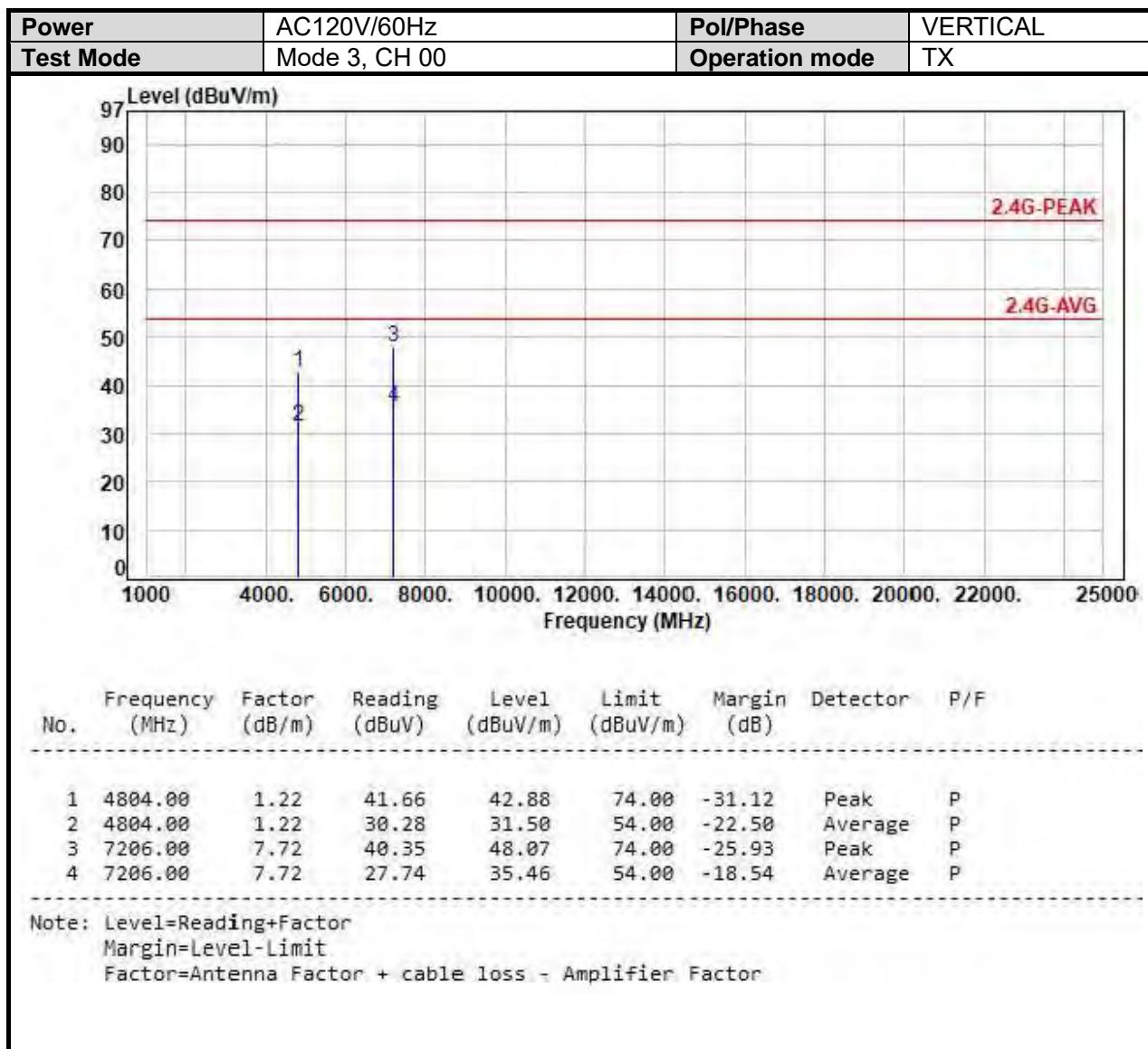


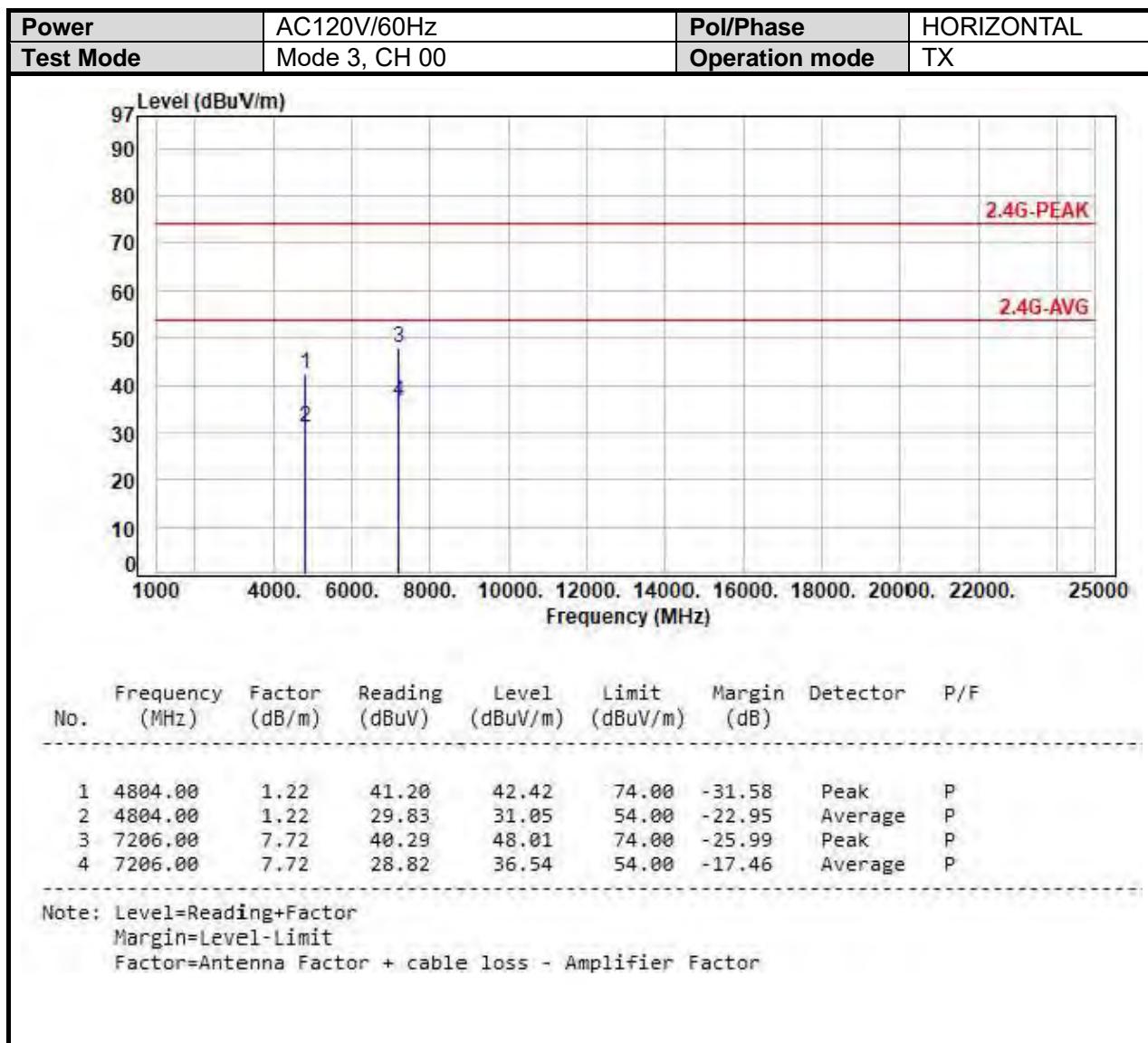


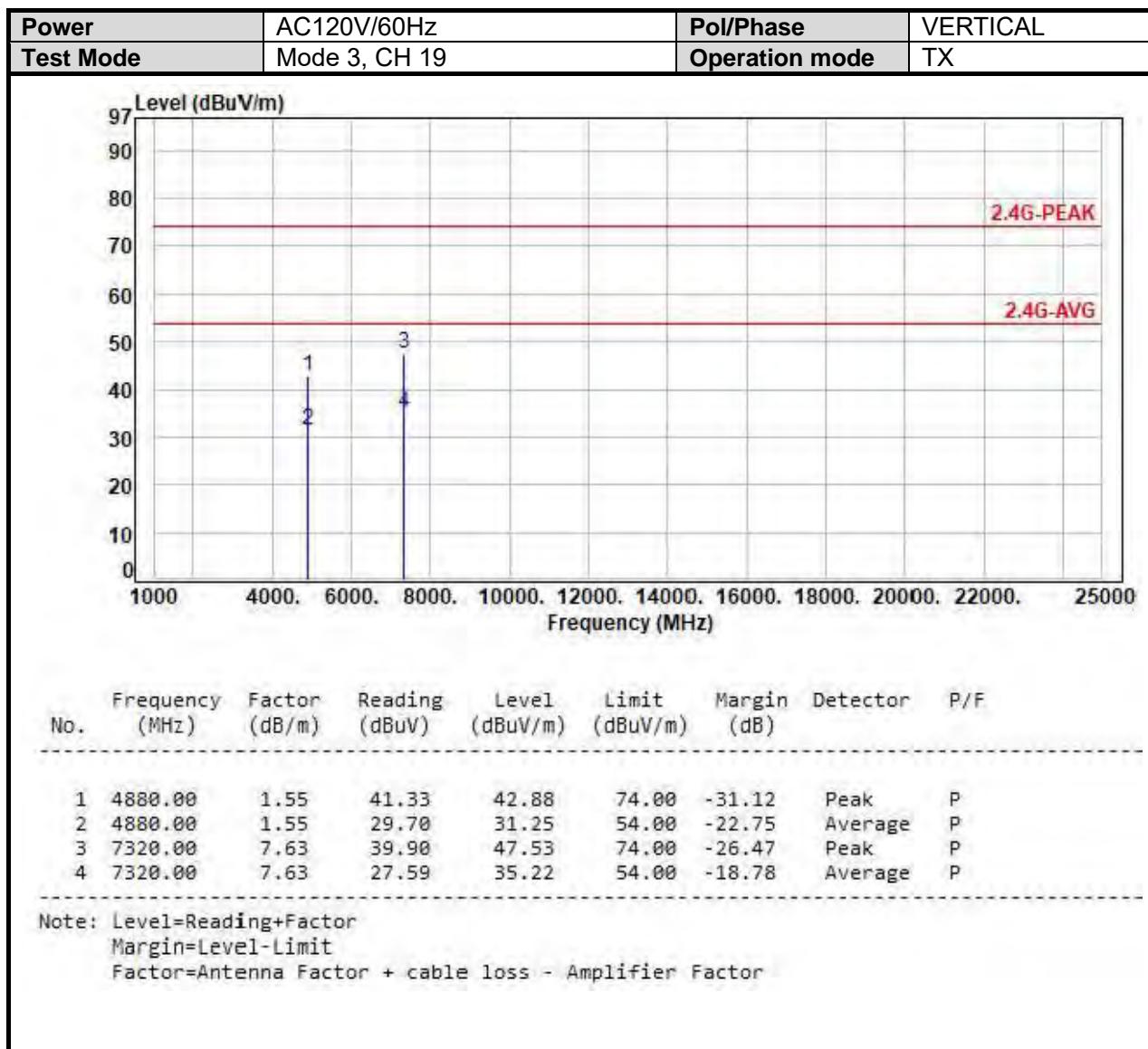


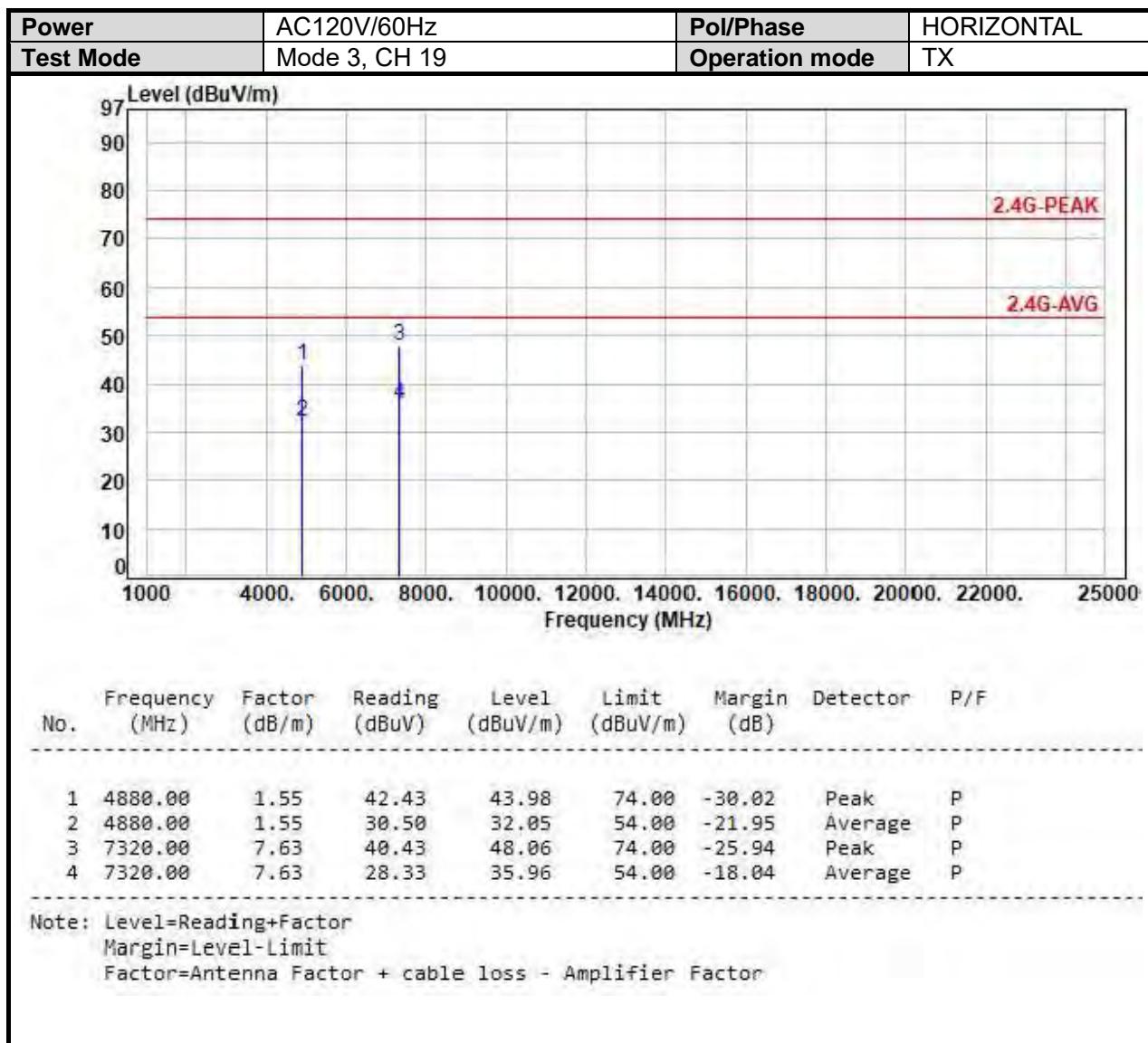


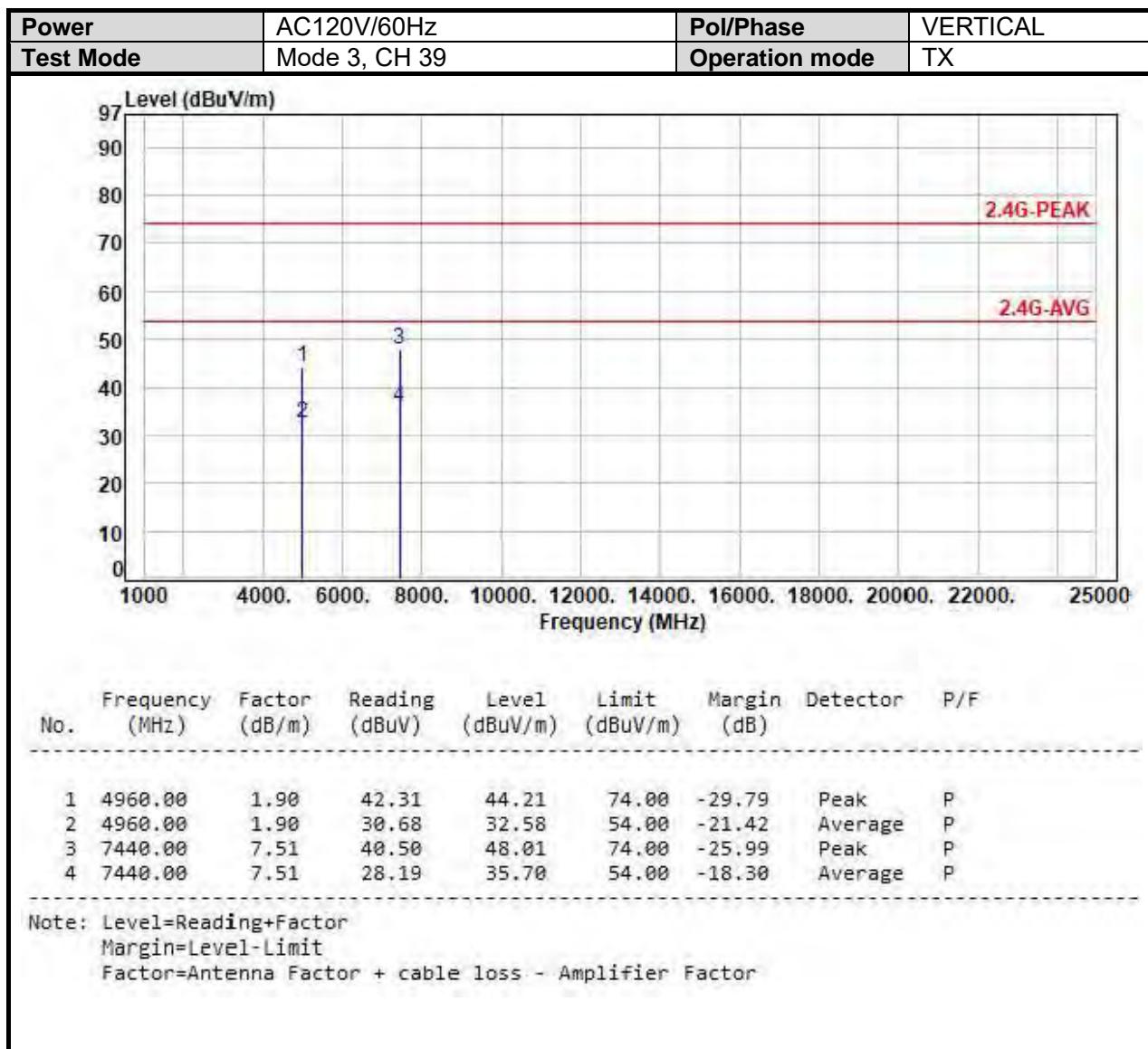


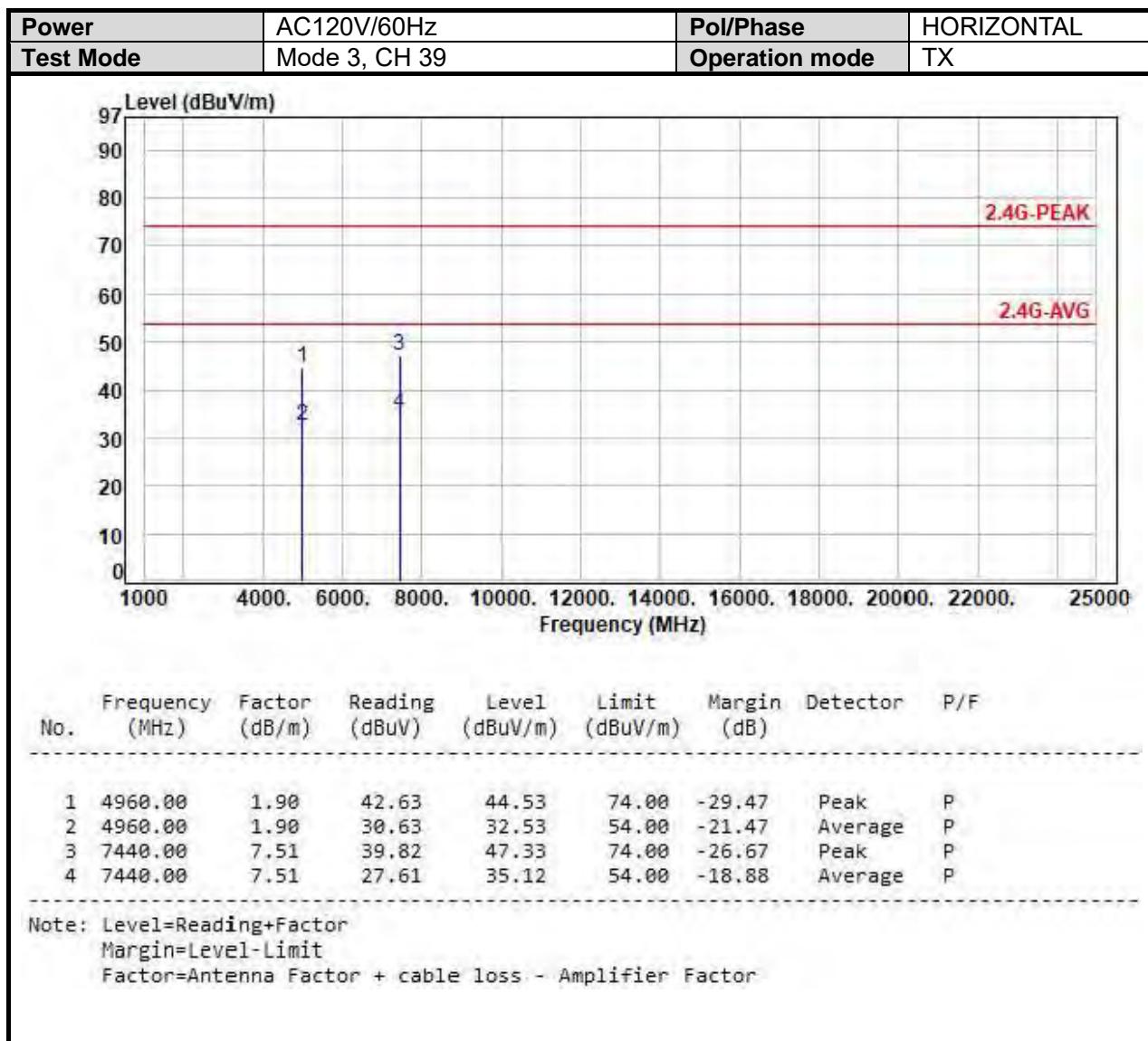


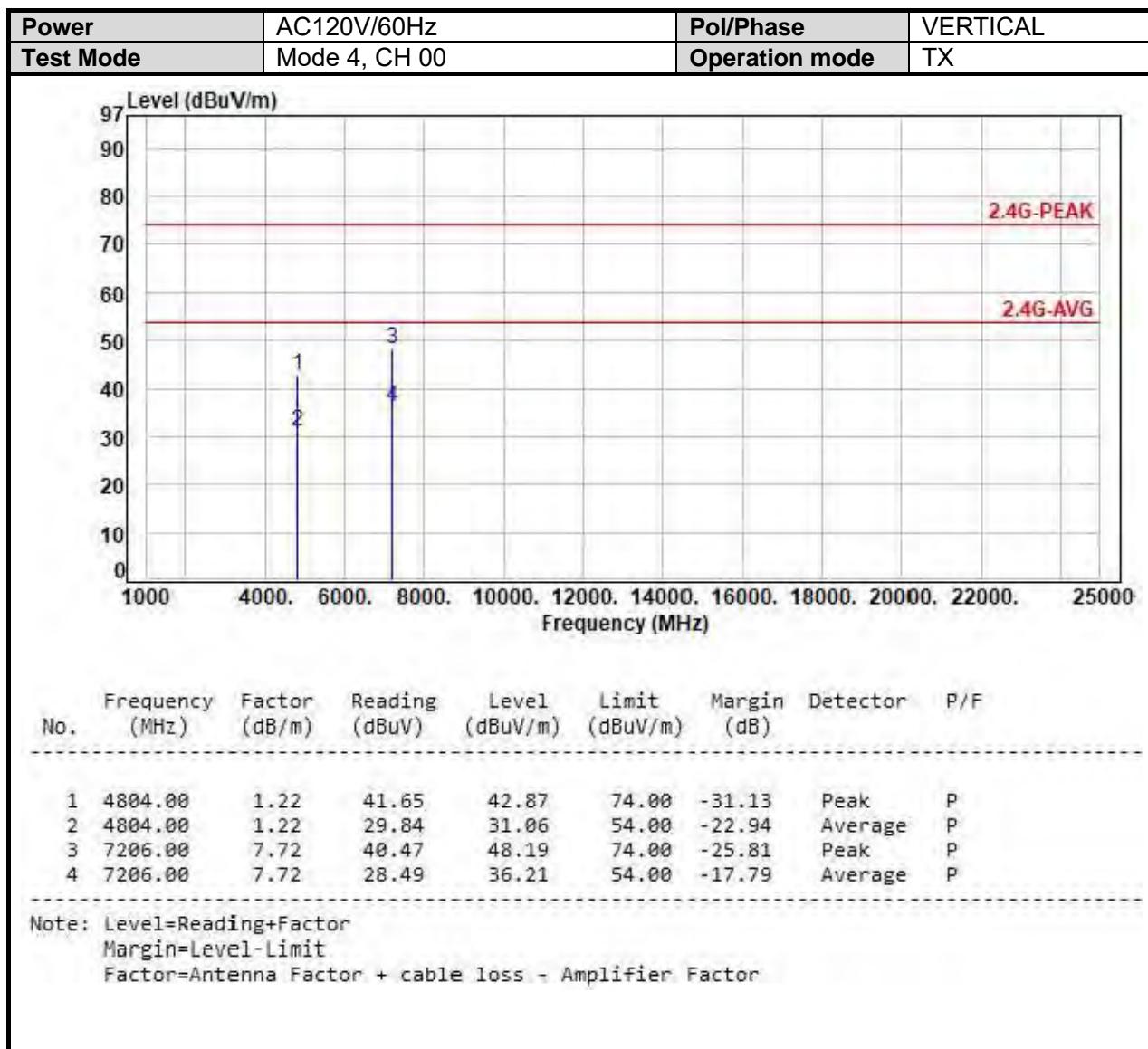


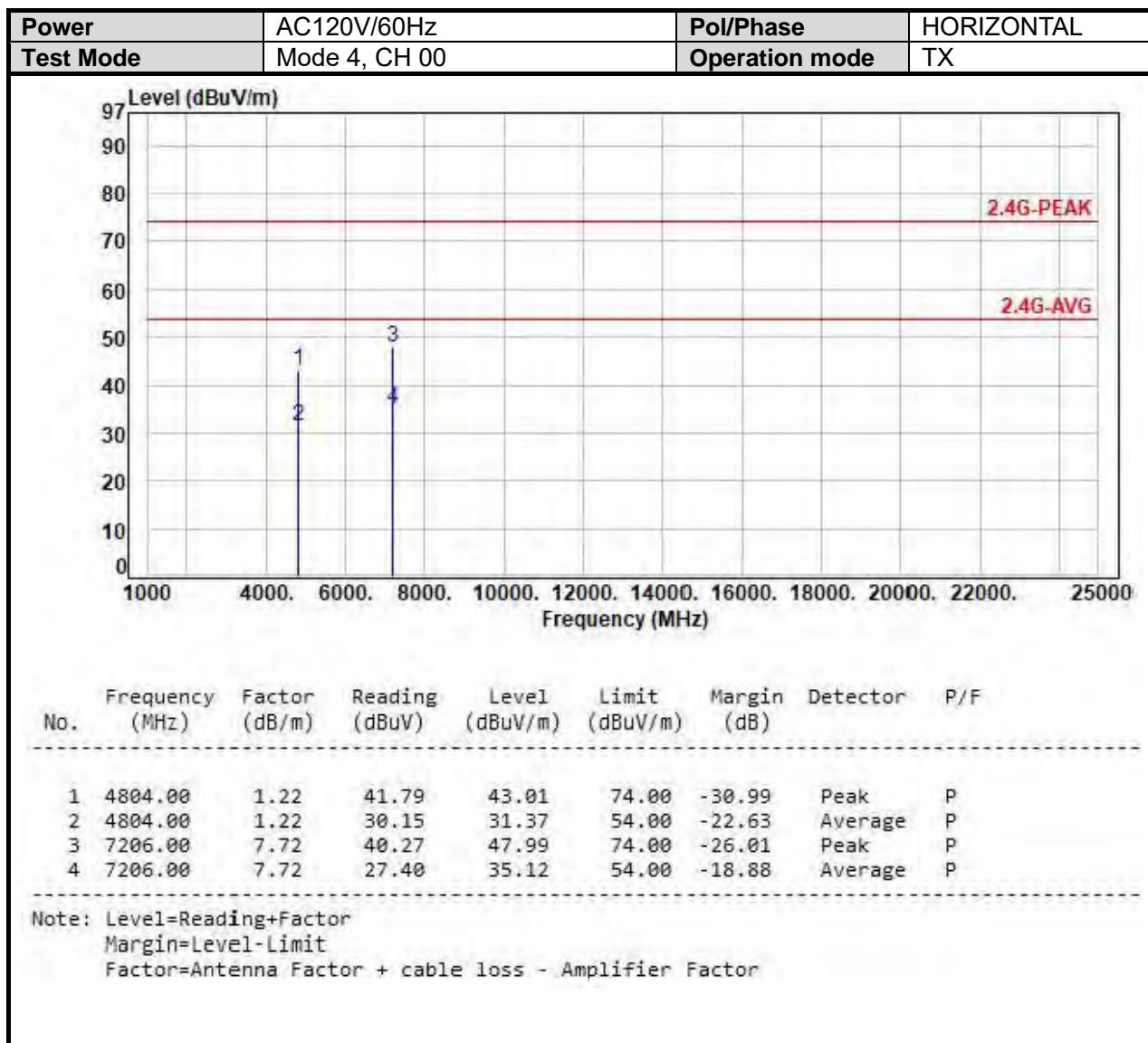


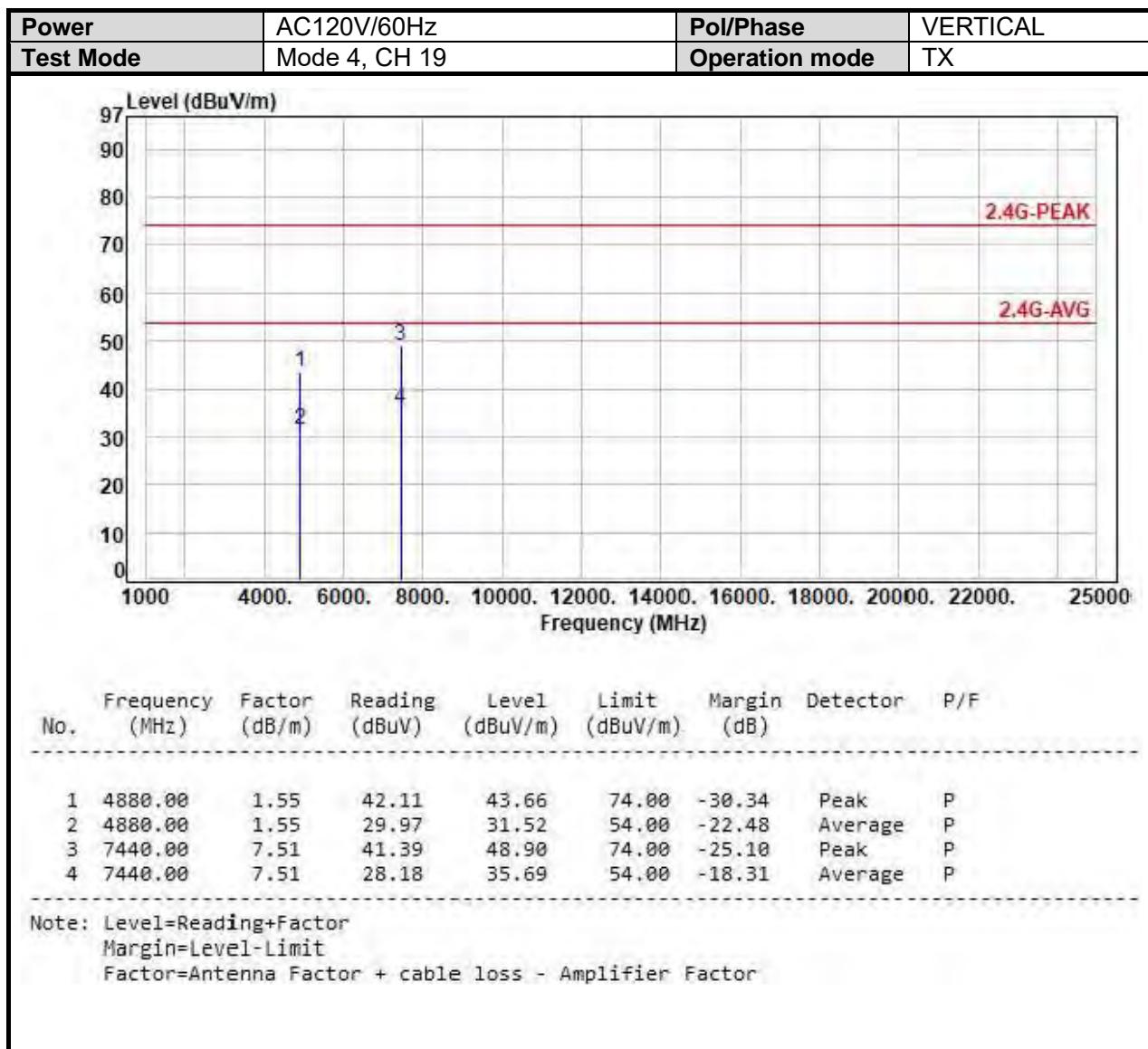


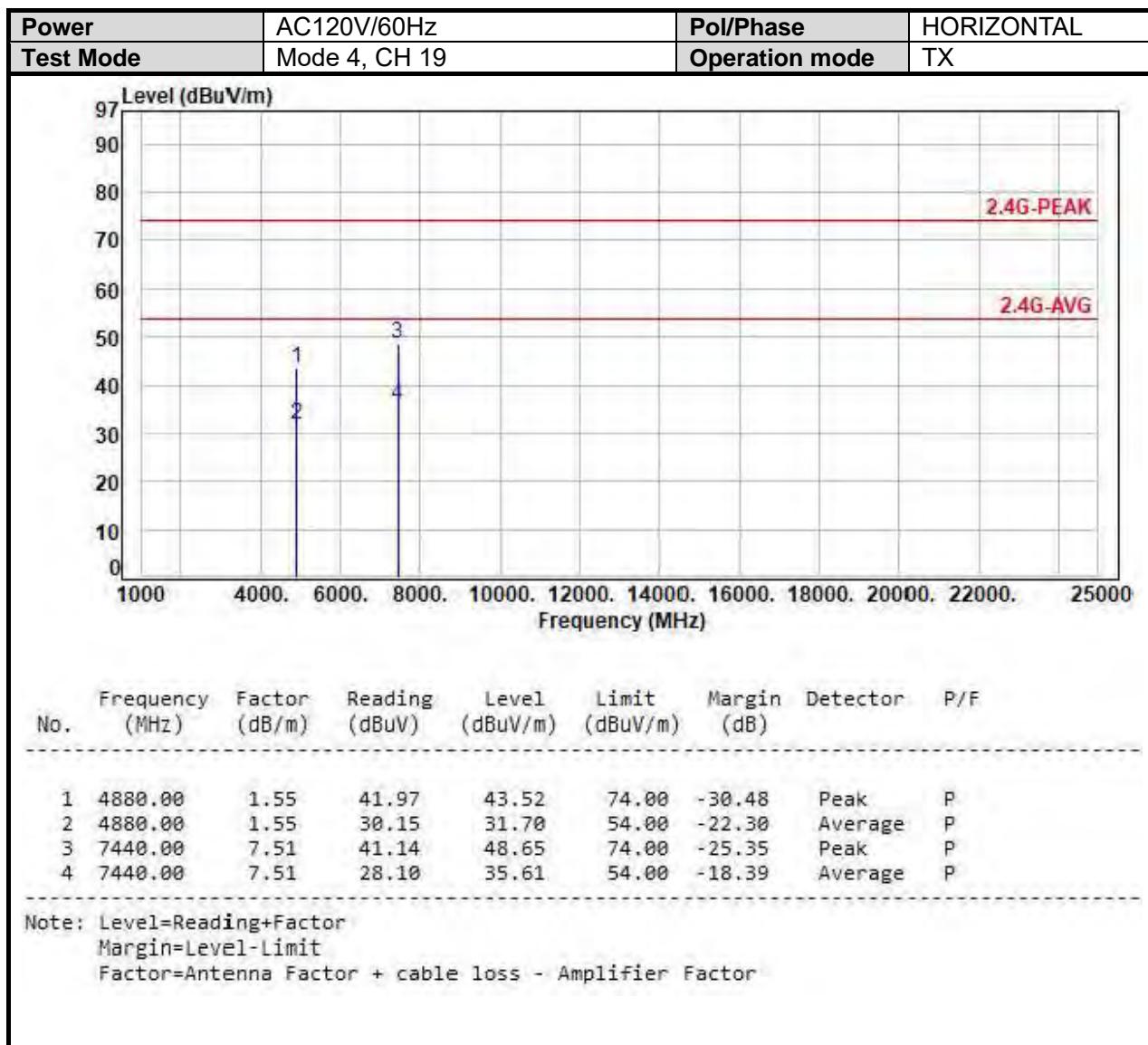


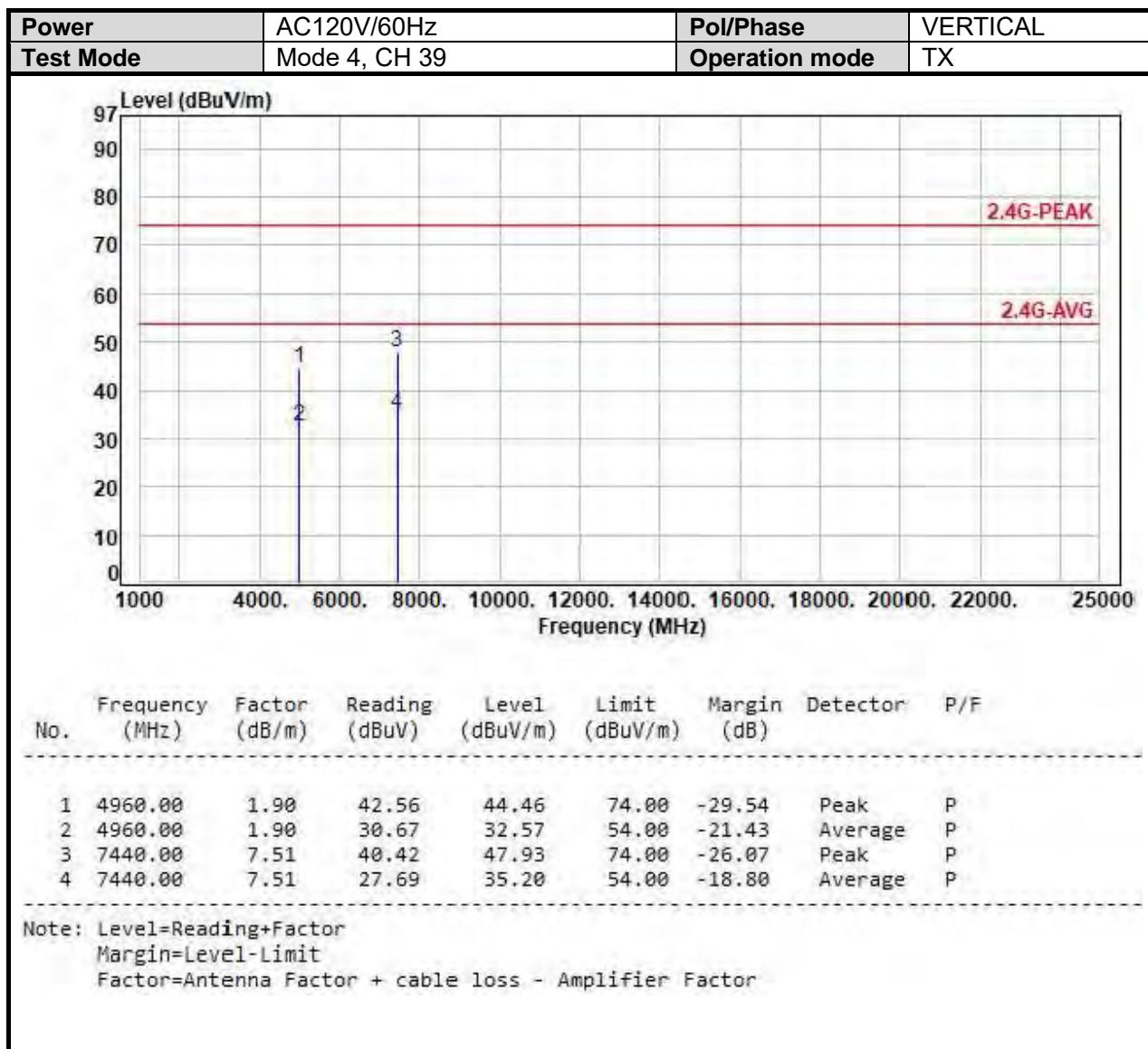


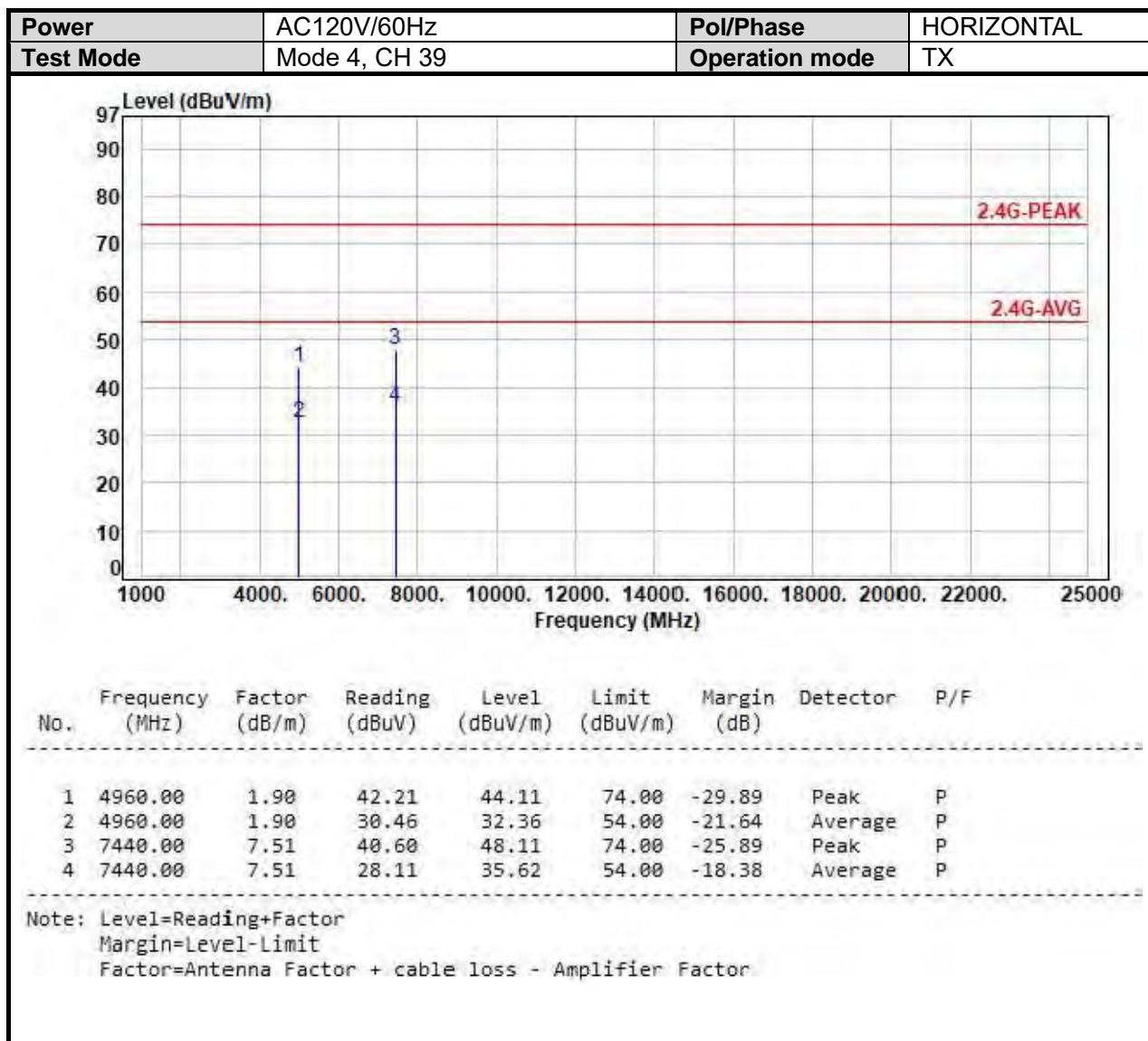












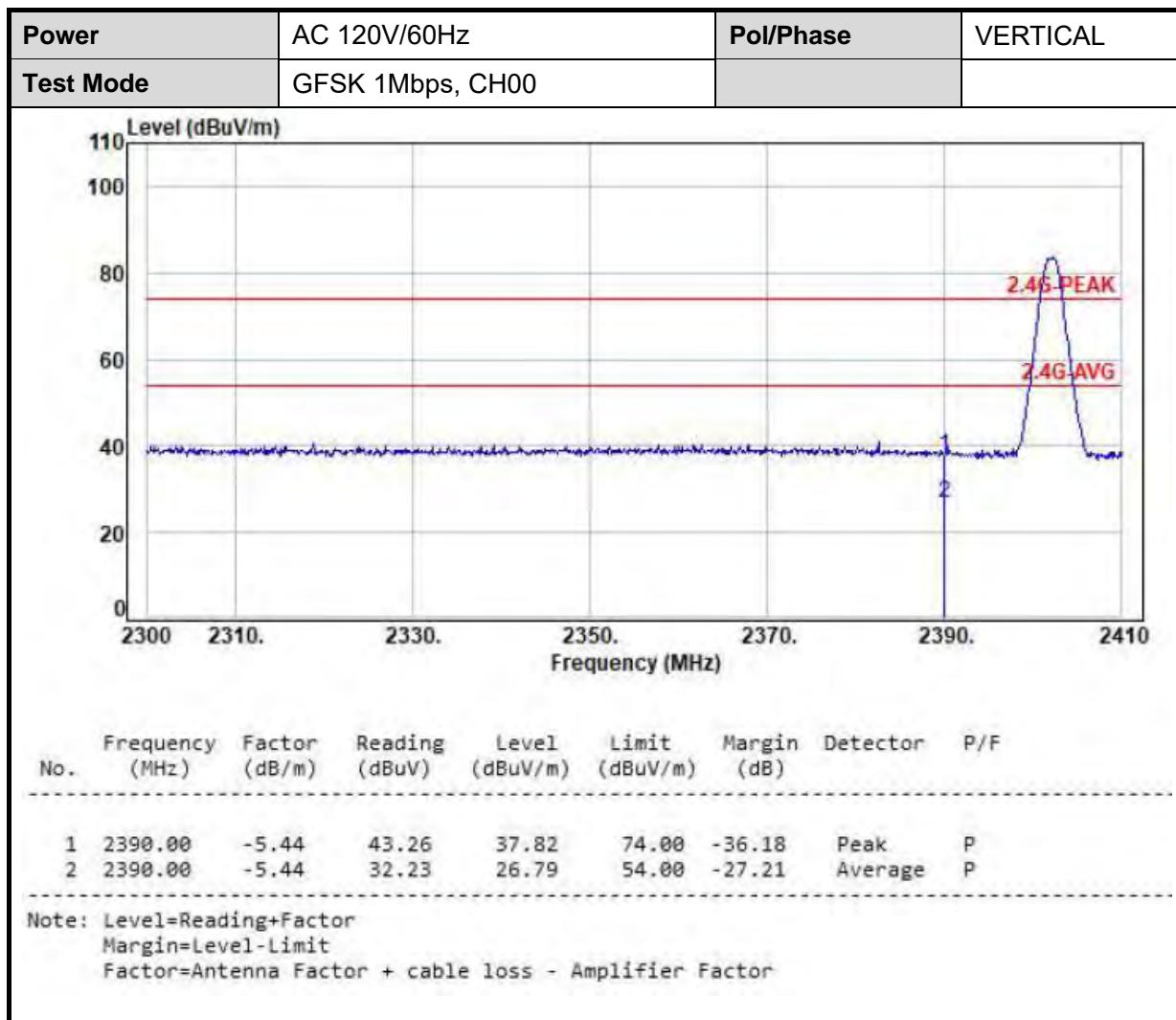


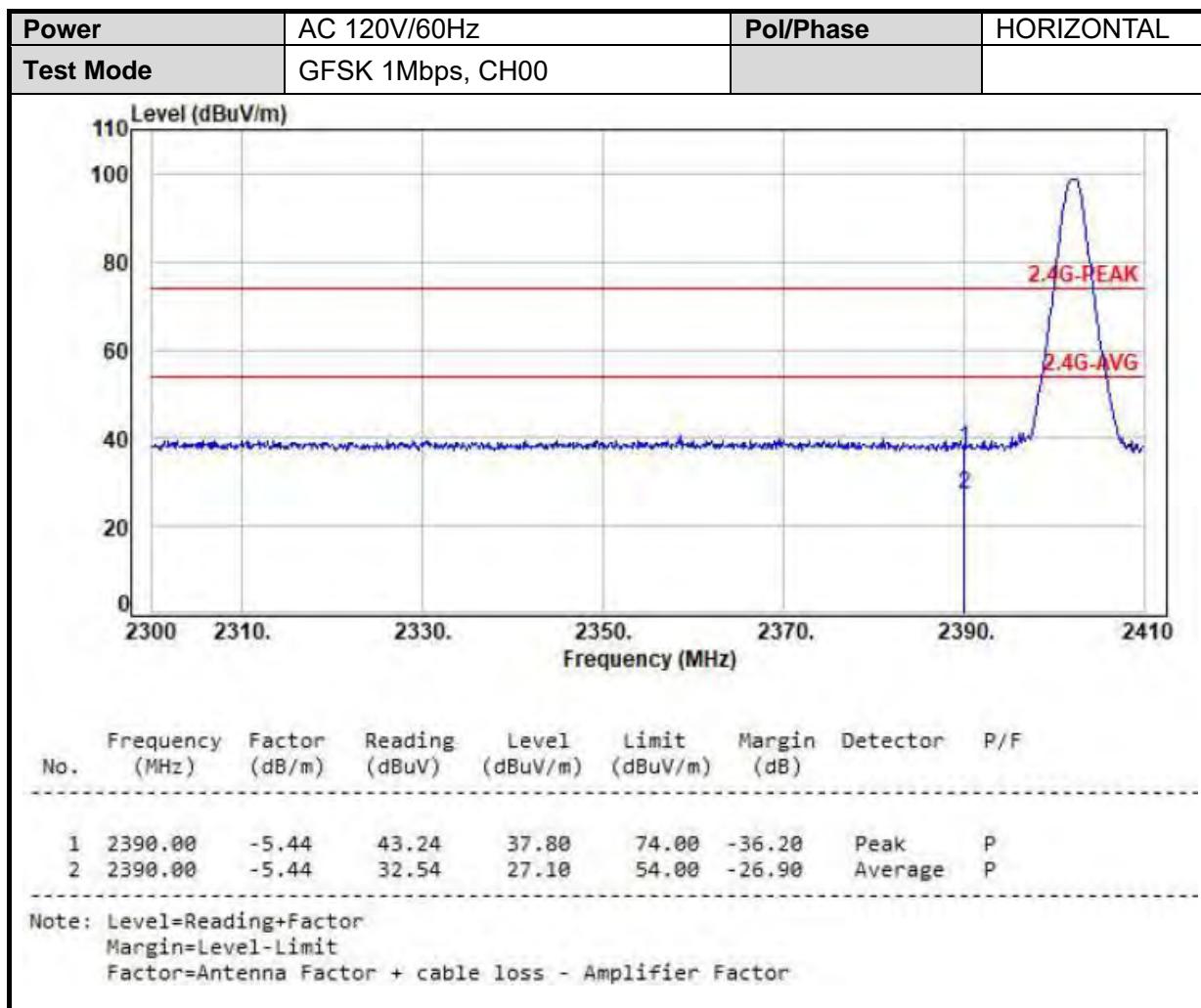
6.7 Restricted Bands of Operation

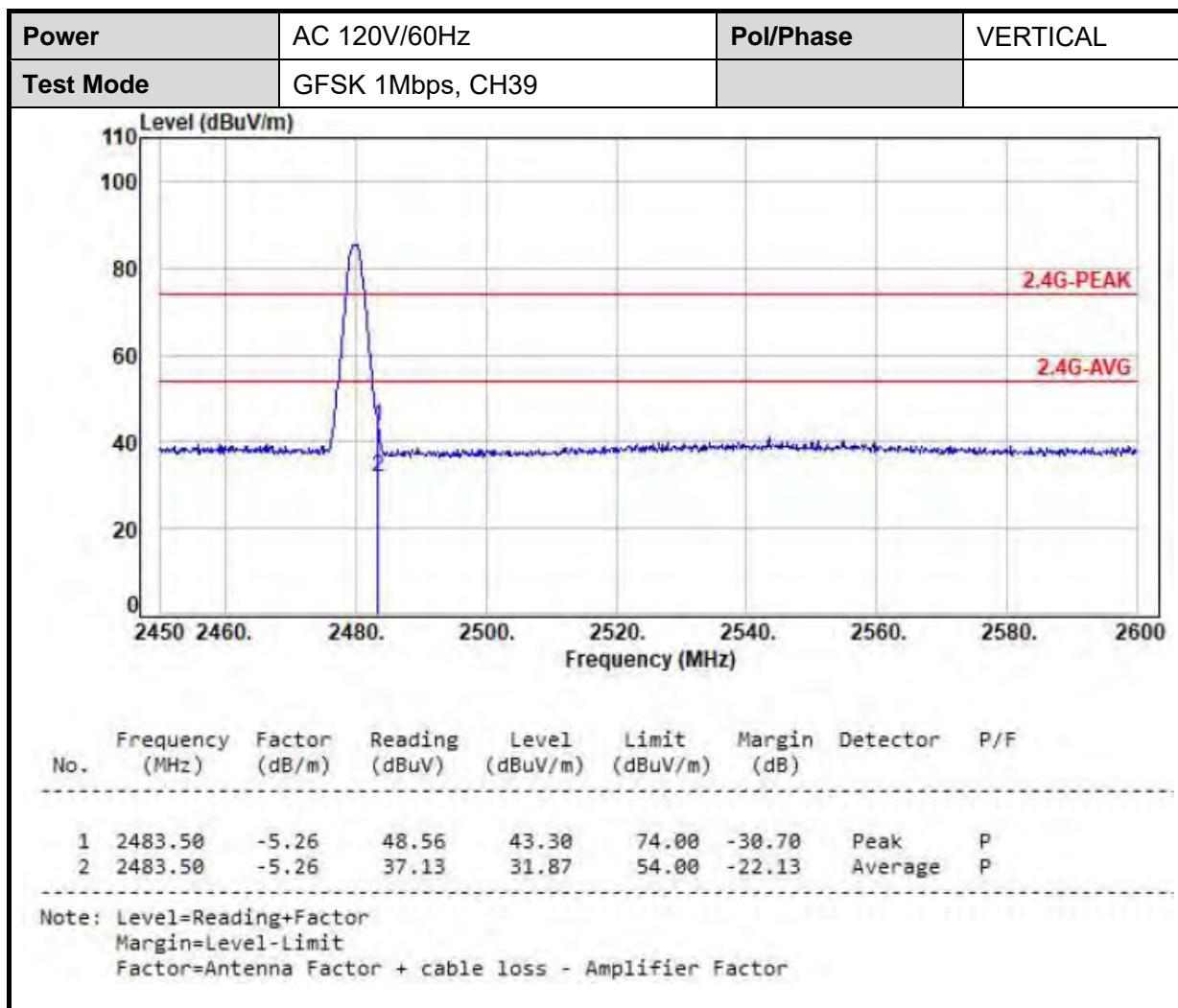
Only spurious emissions are permitted in any of the frequency bands listed below:

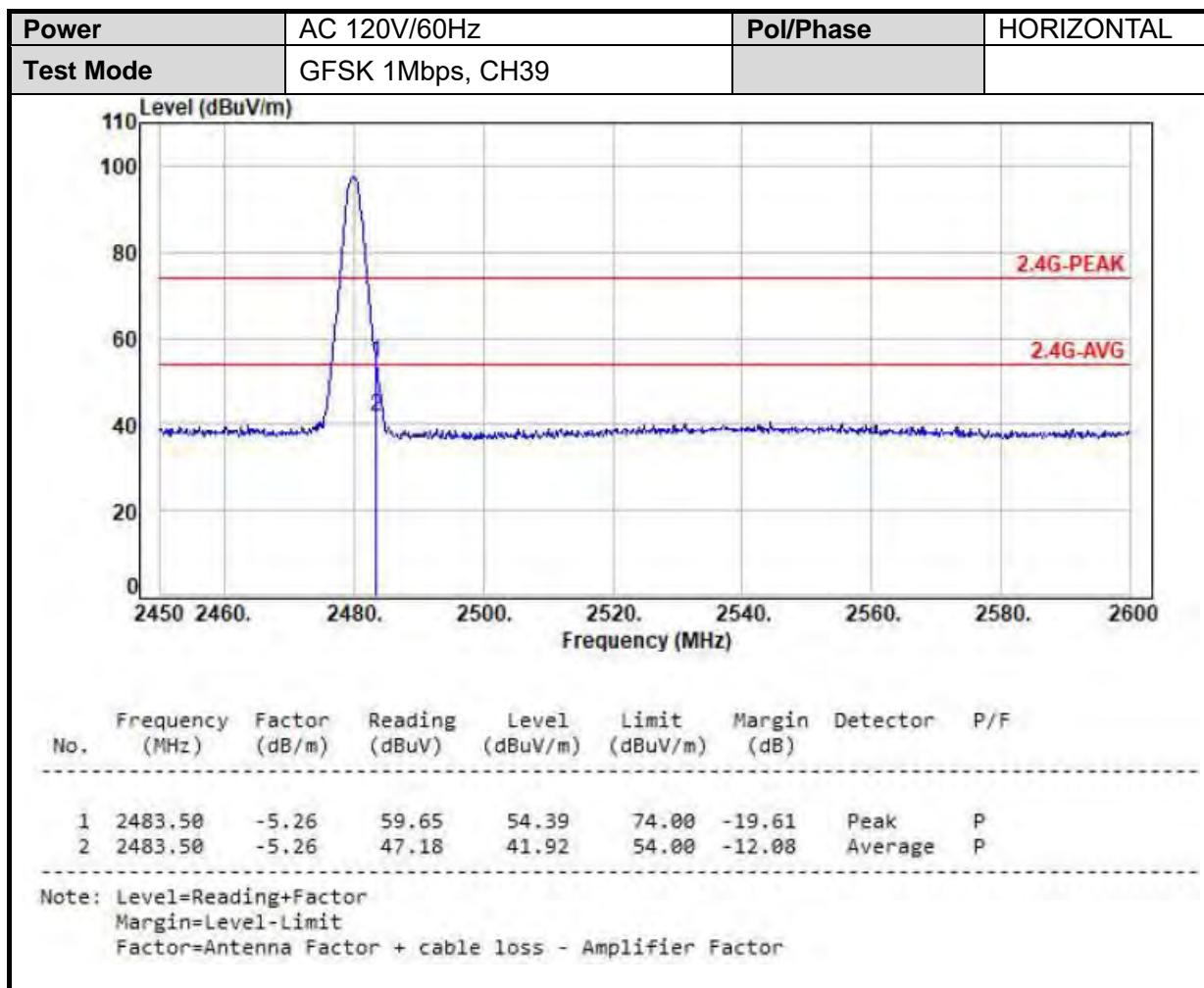
MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	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			

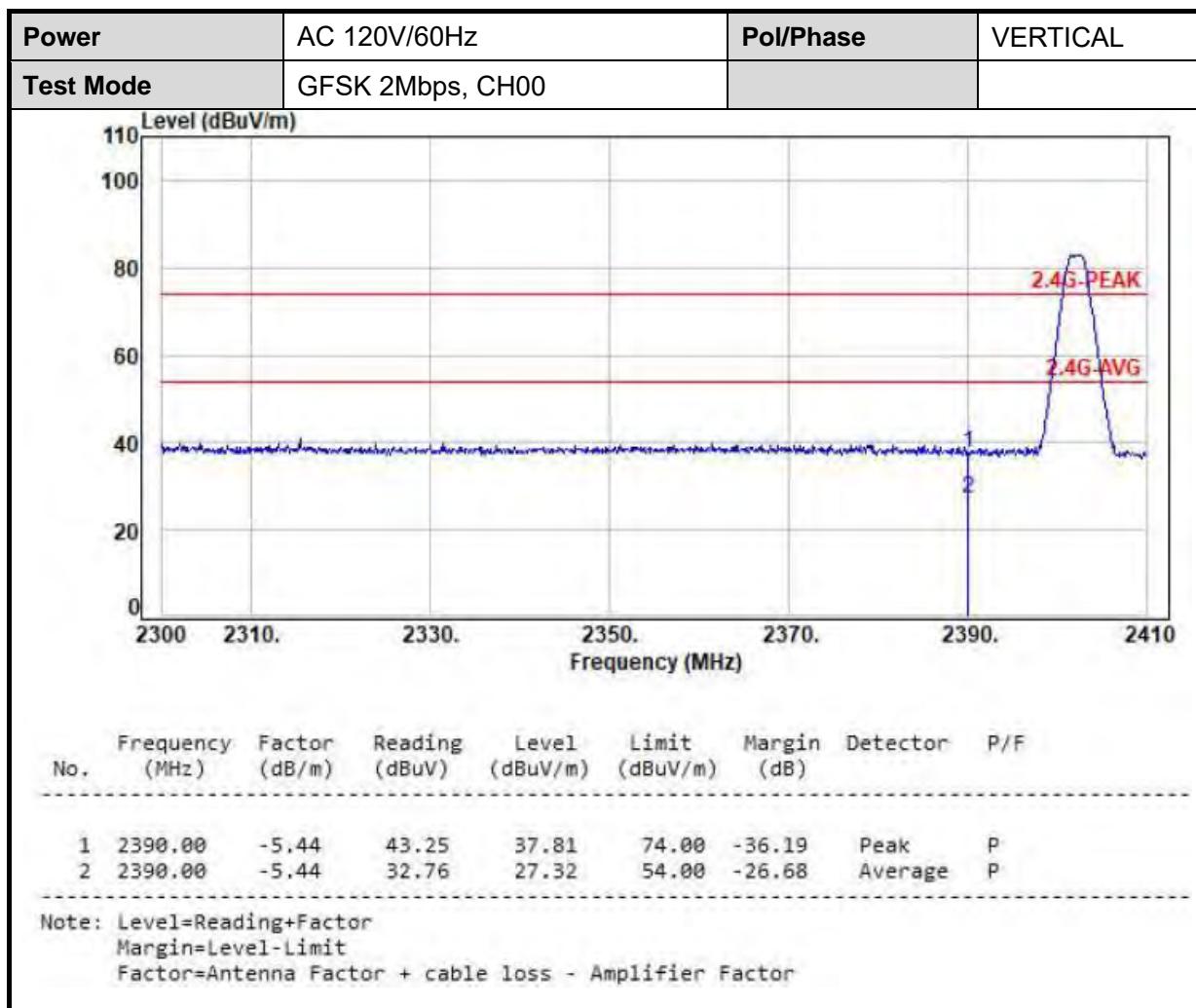
**: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

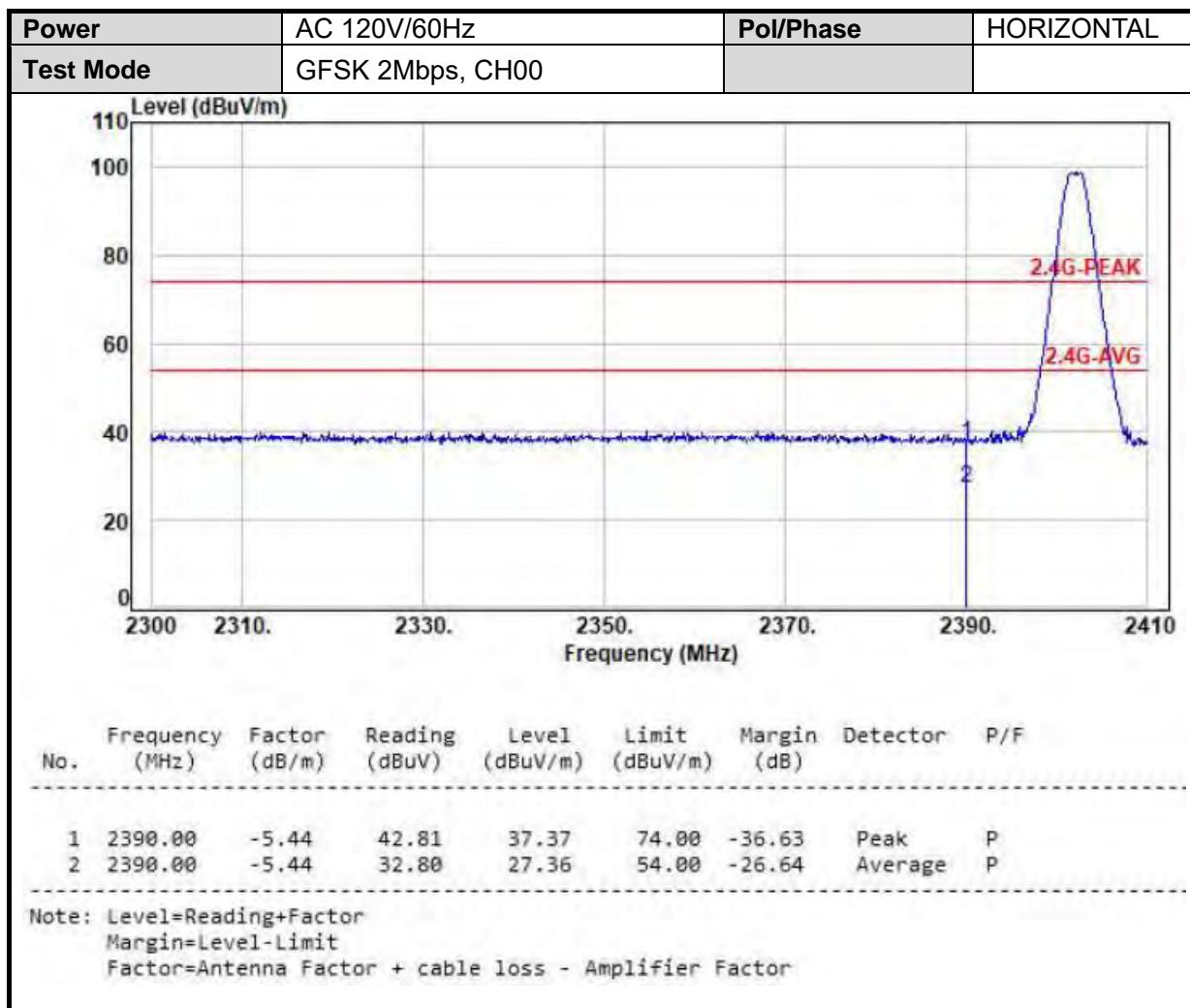


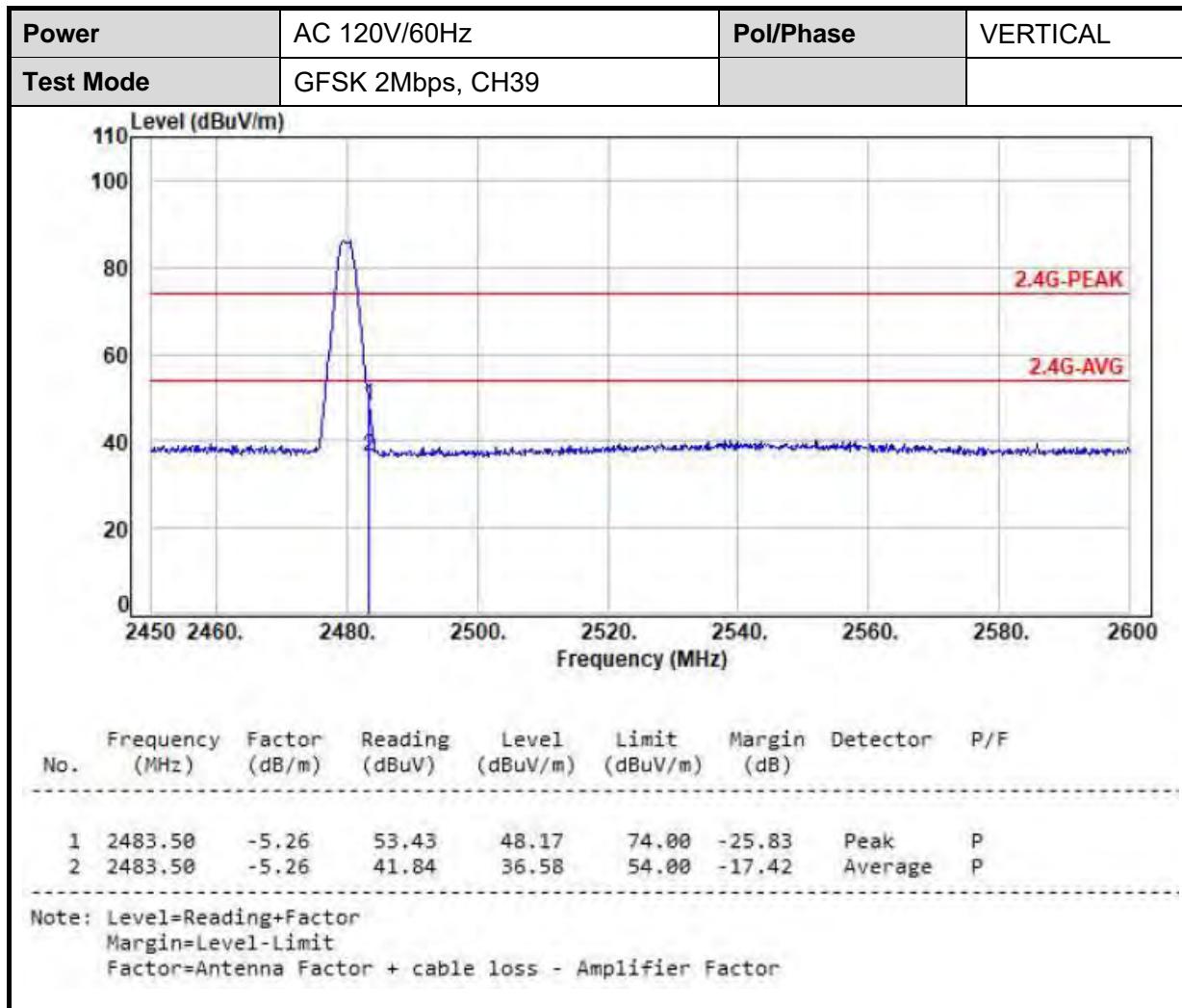


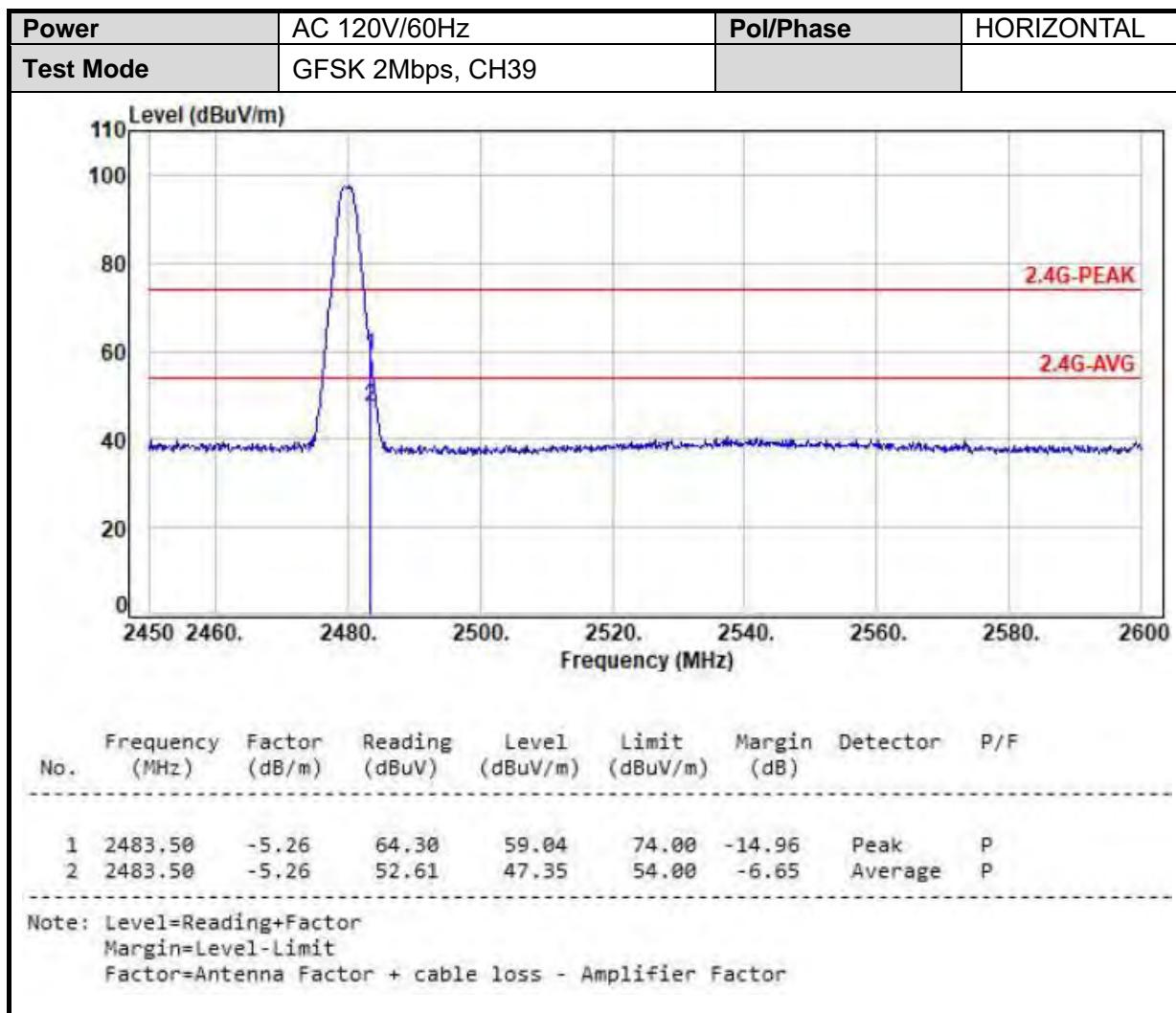


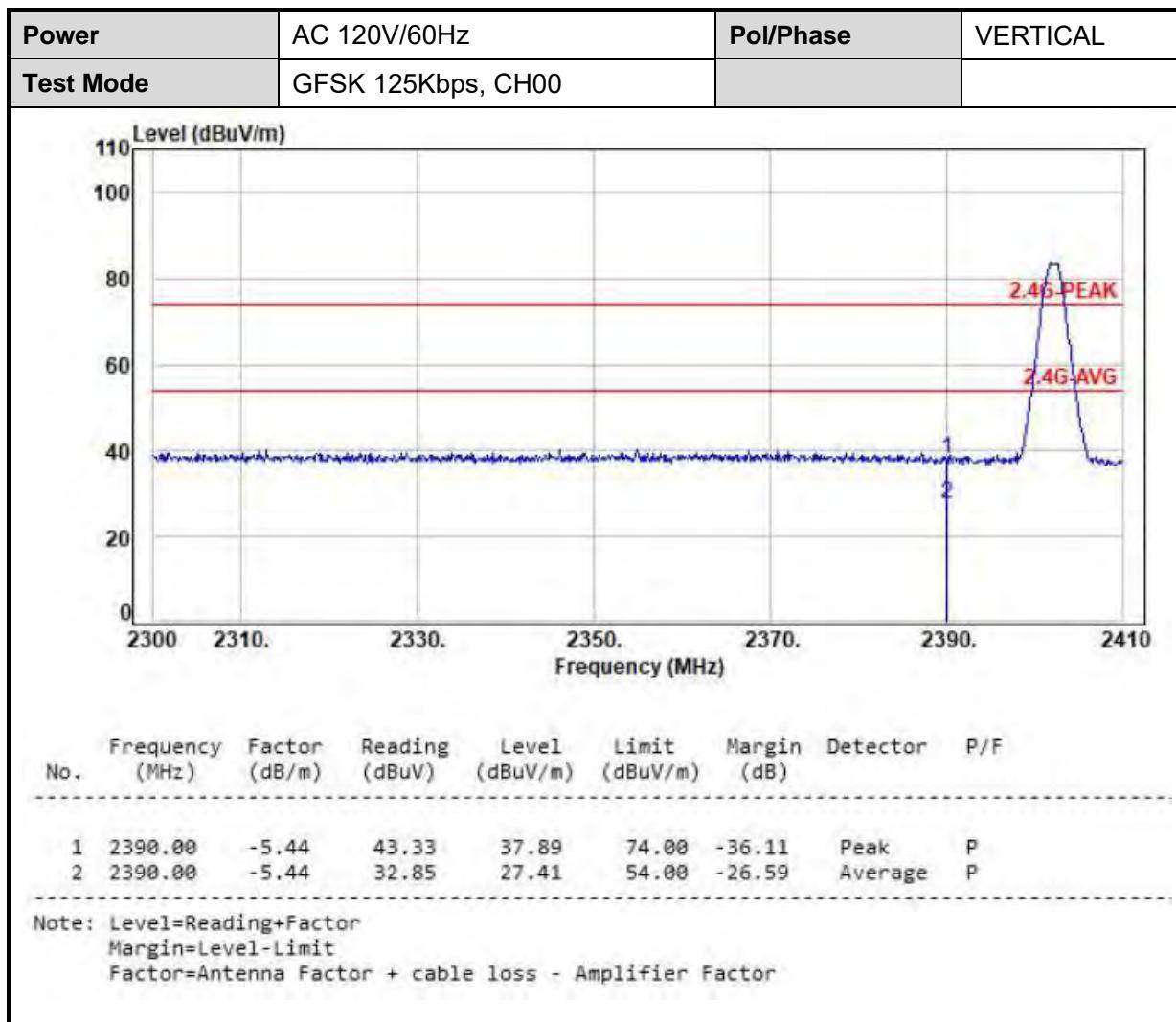


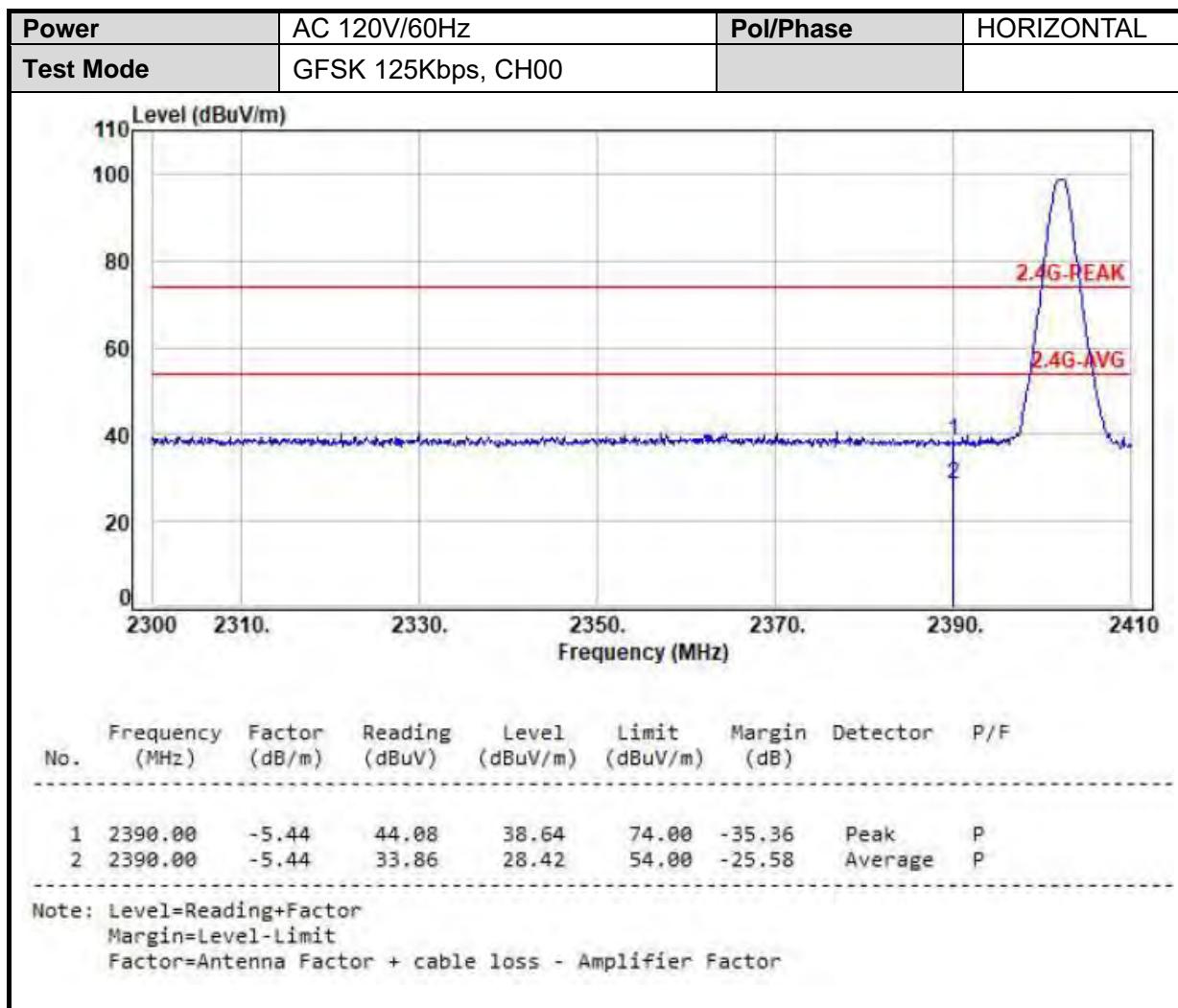


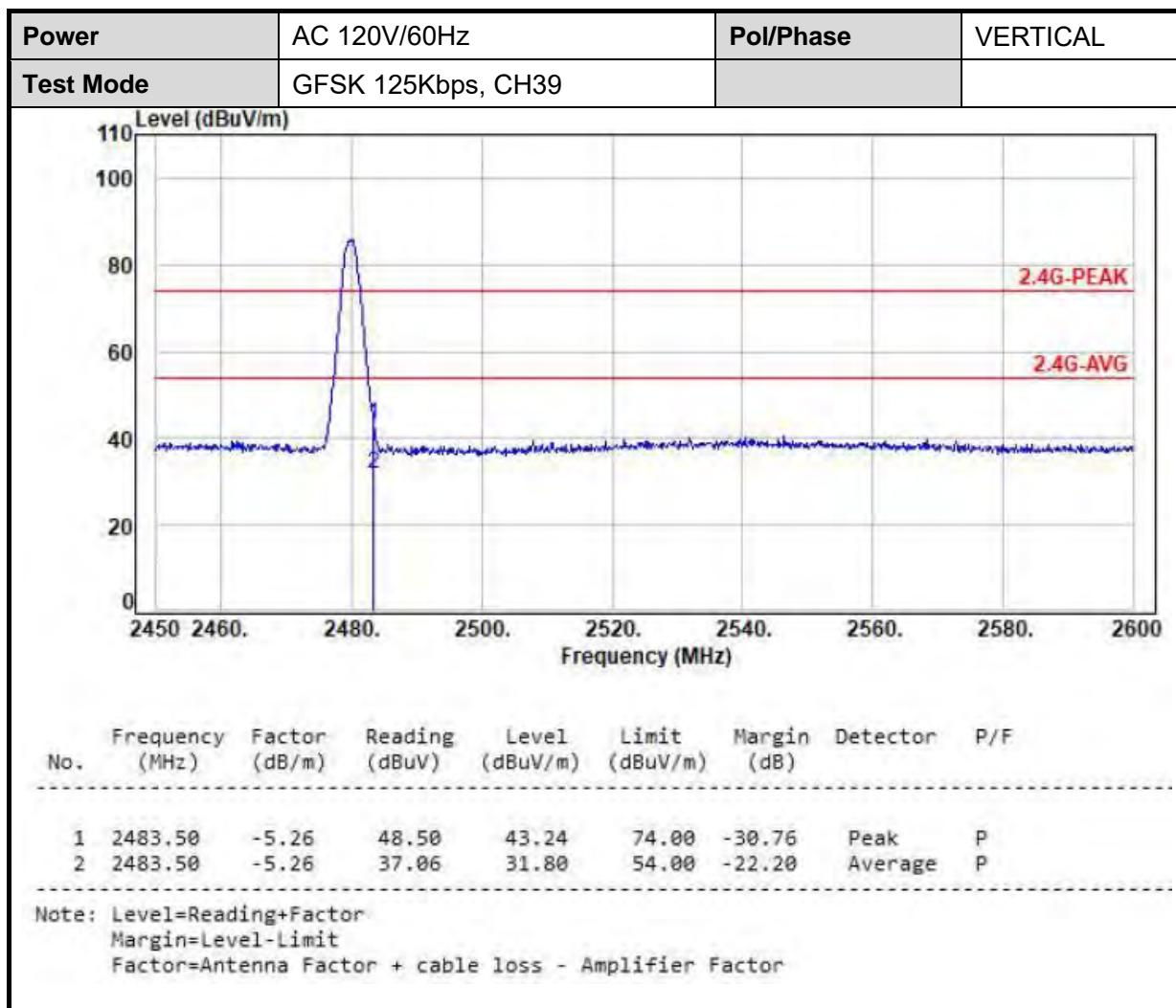


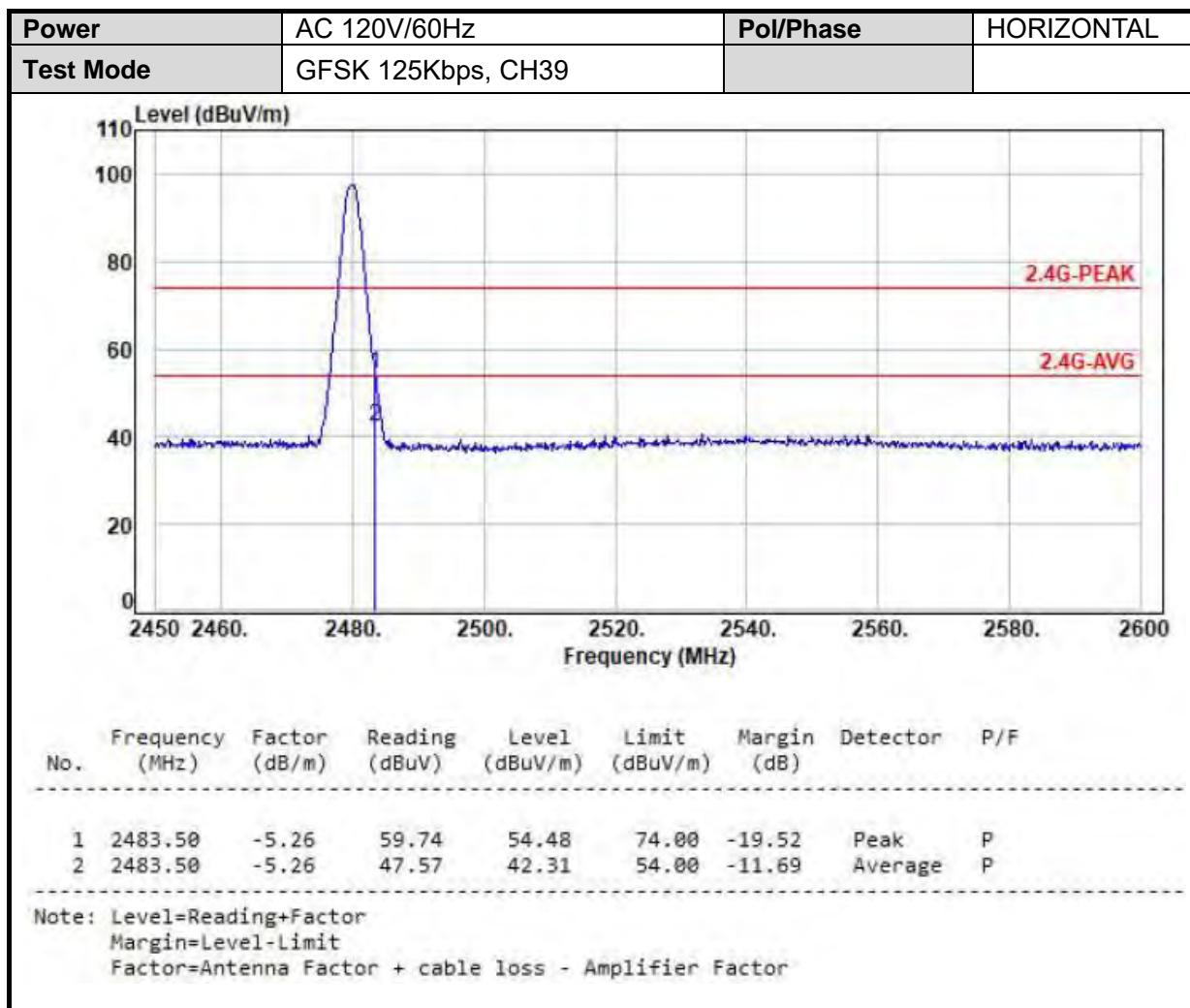


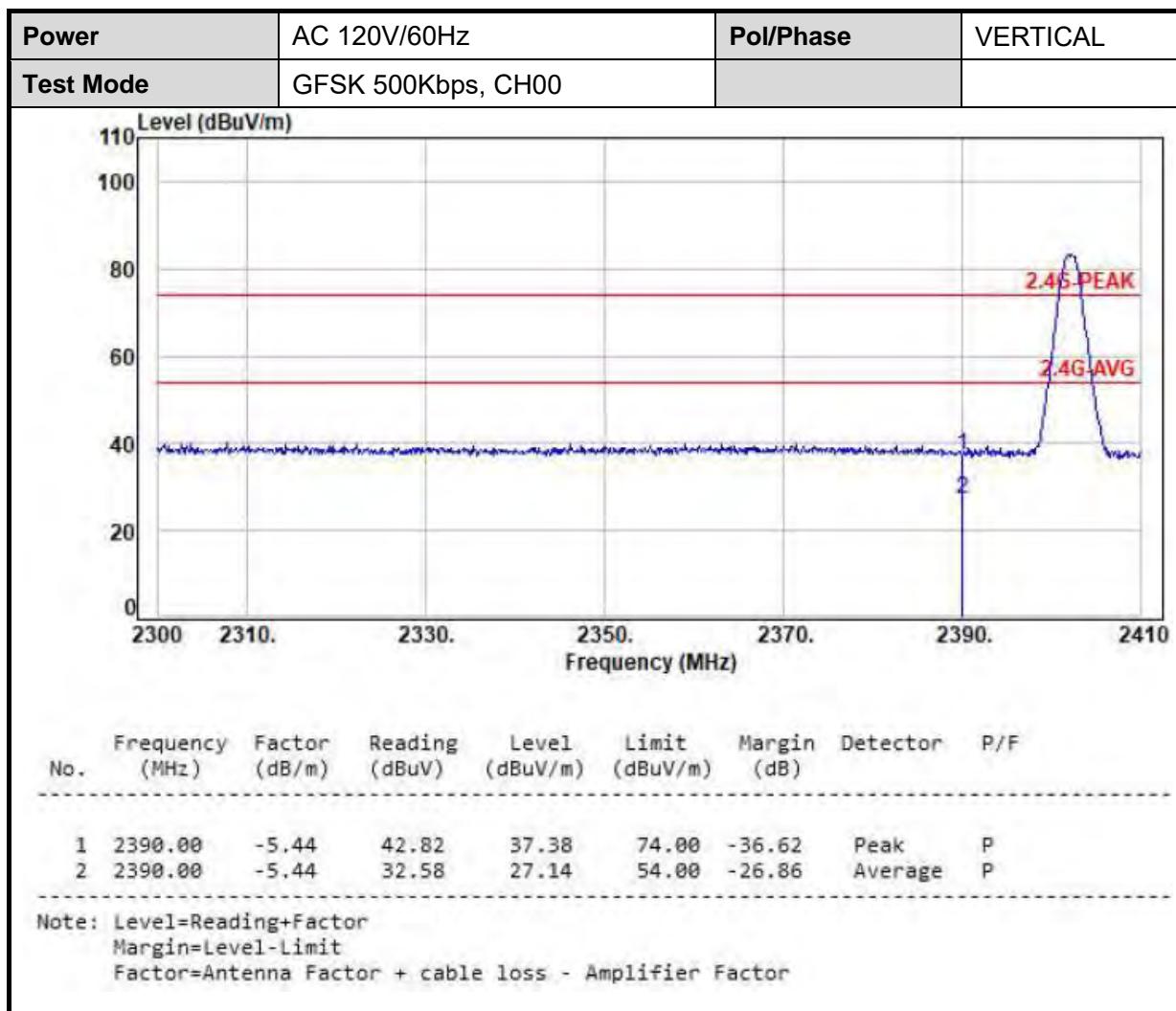


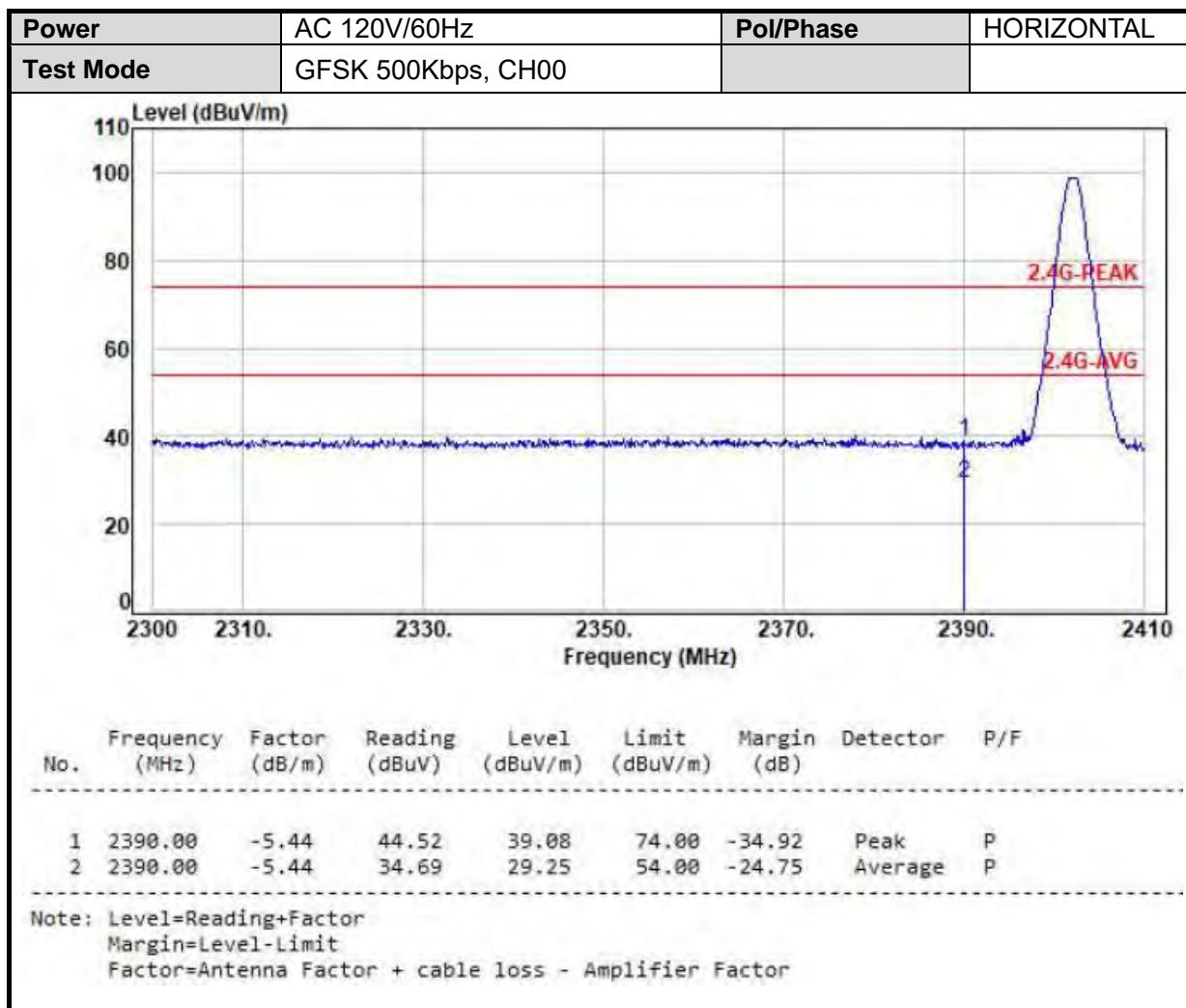


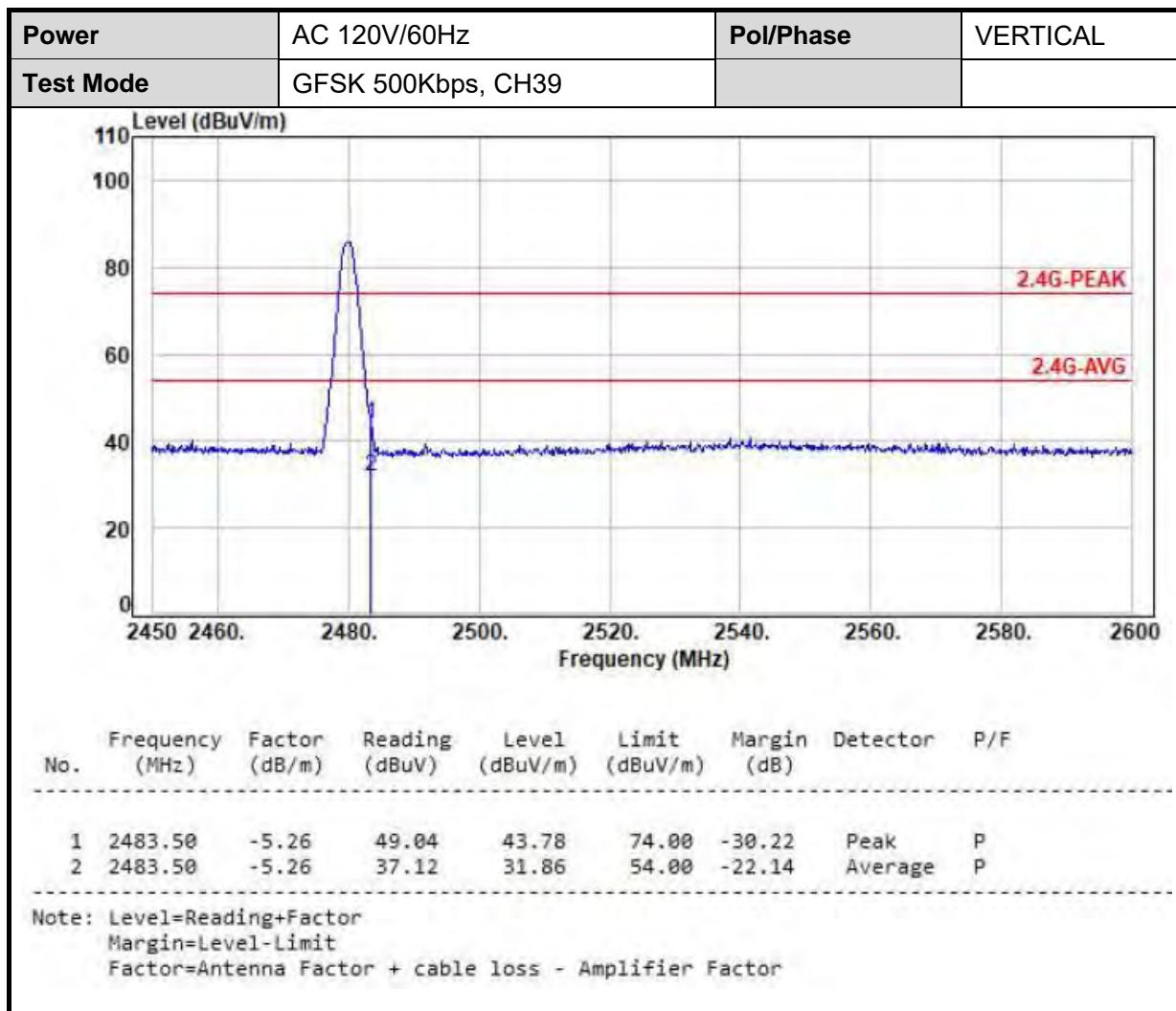


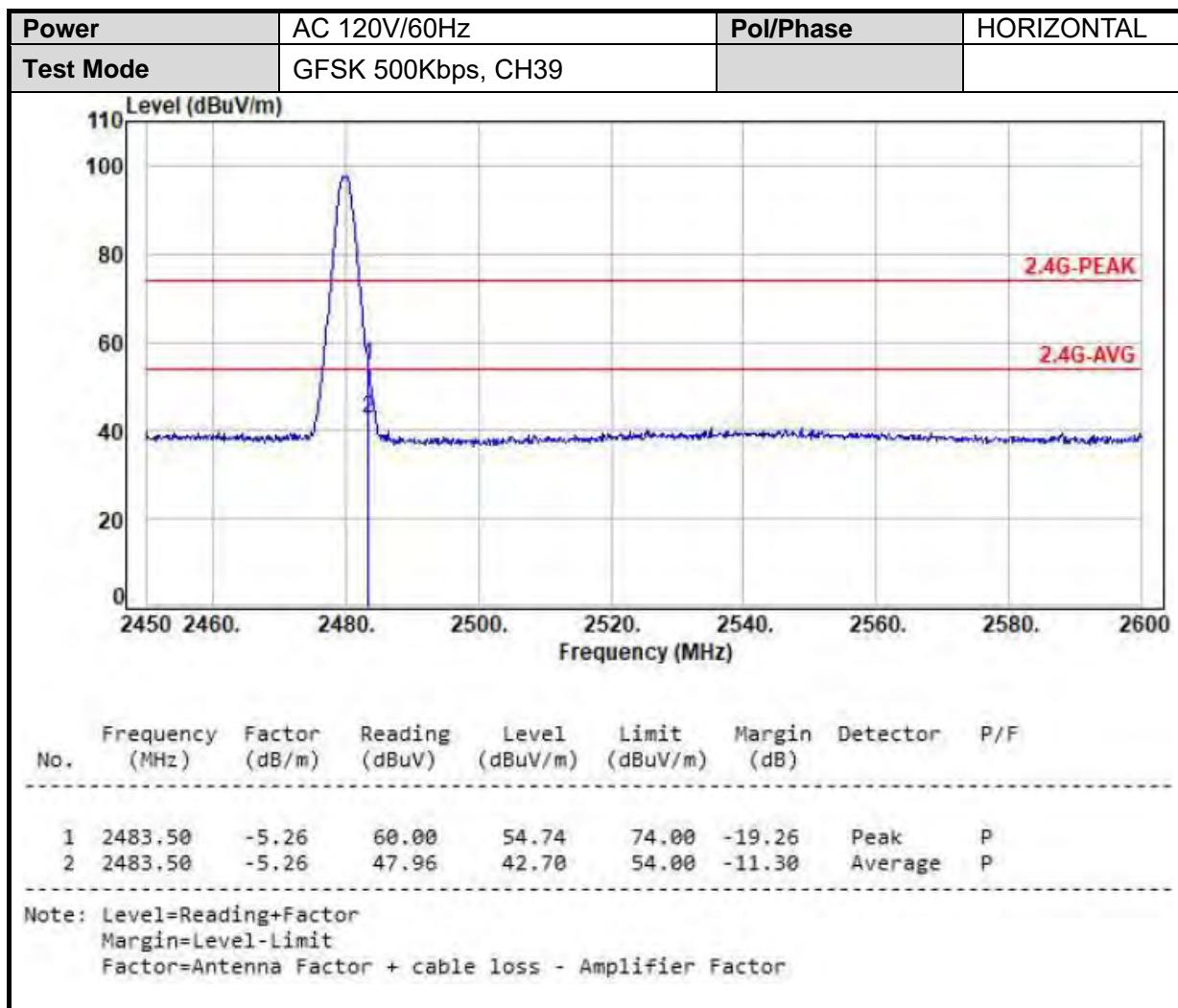














7. Test of Spurious Emission (Conducted)

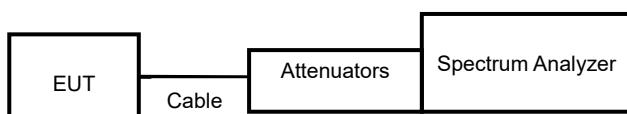
7.1 Test Limit

Below –20dB of the highest emission level of operating band (In 100 kHz 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. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

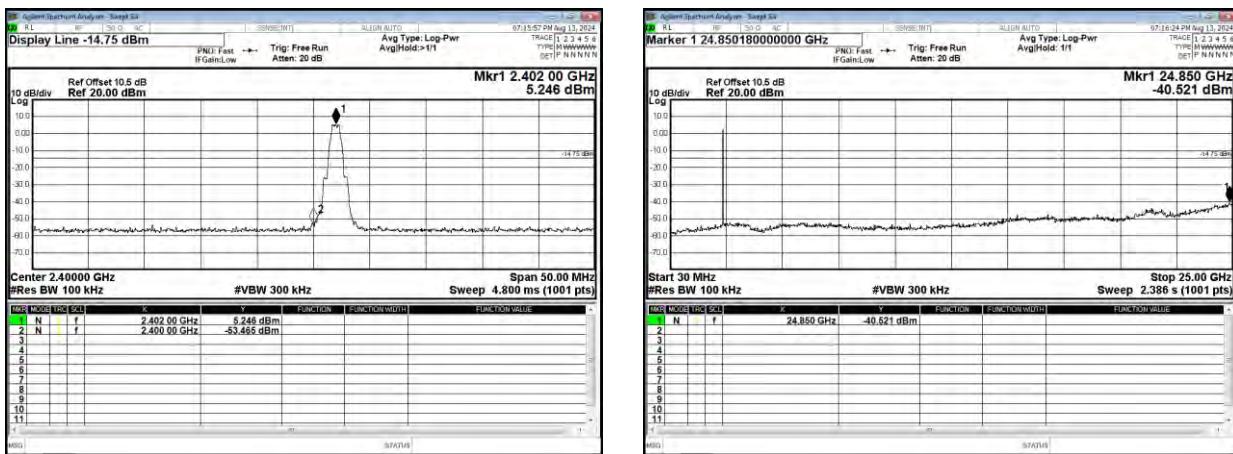
7.3 Test Setup Layout



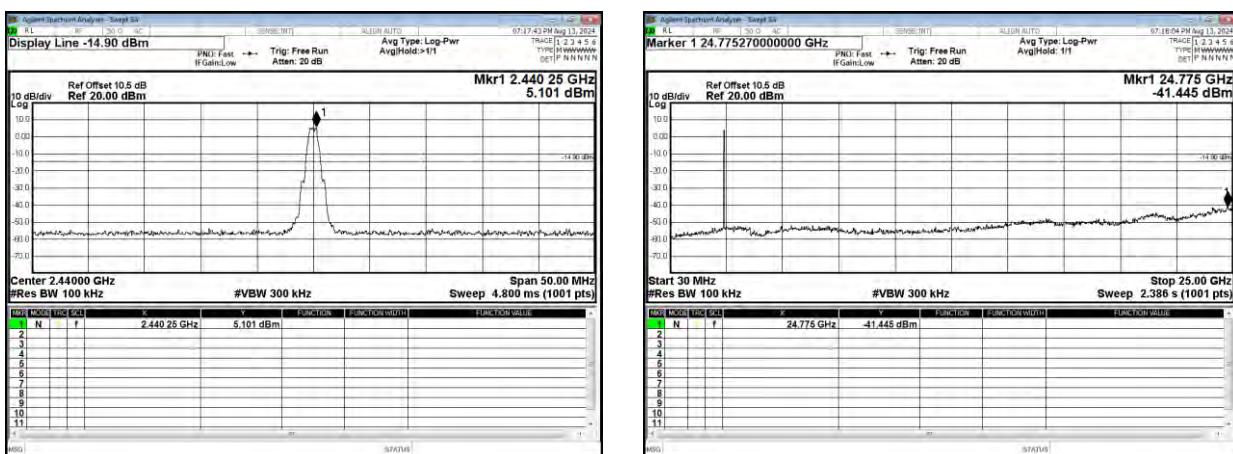
7.4 Test Result and Data

Note: Test plots refer to the following pages.

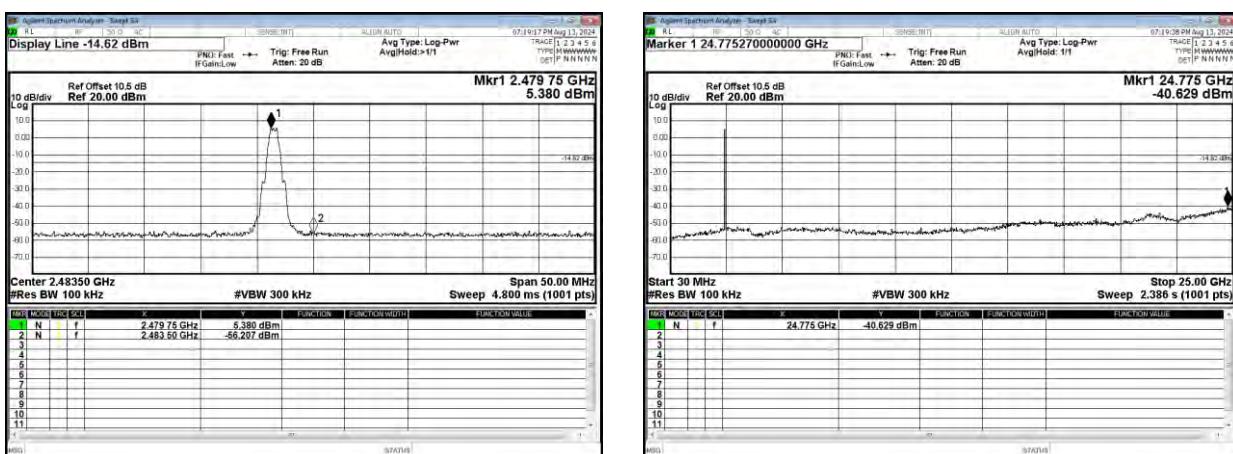
Modulation Type: GFSK 1Mbps
CH00



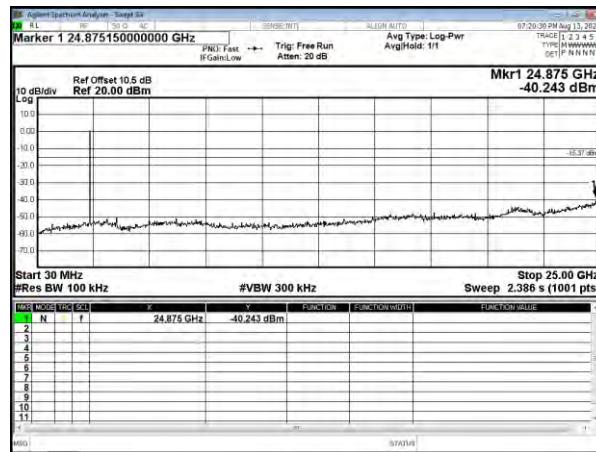
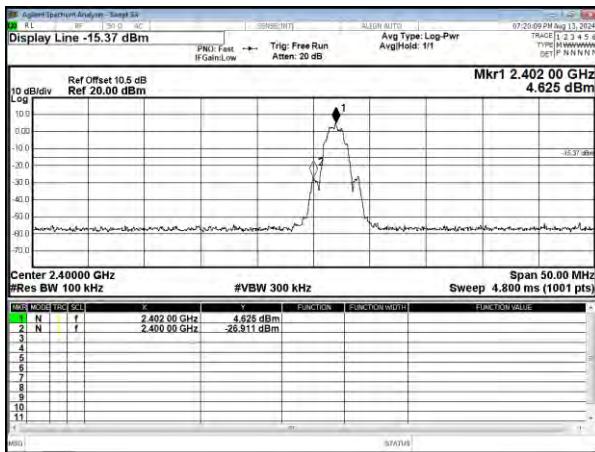
Modulation Type: GFSK 1Mbps
CH19



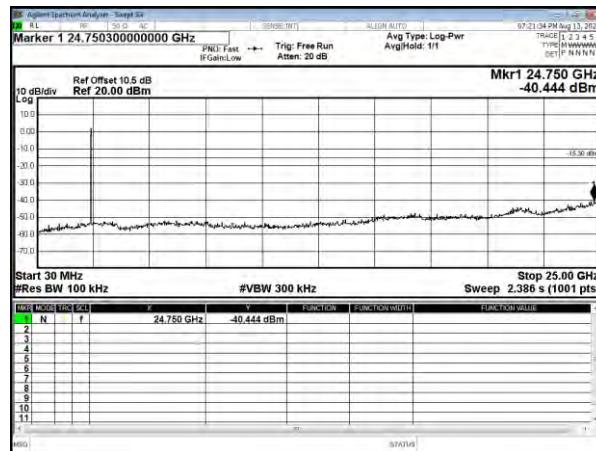
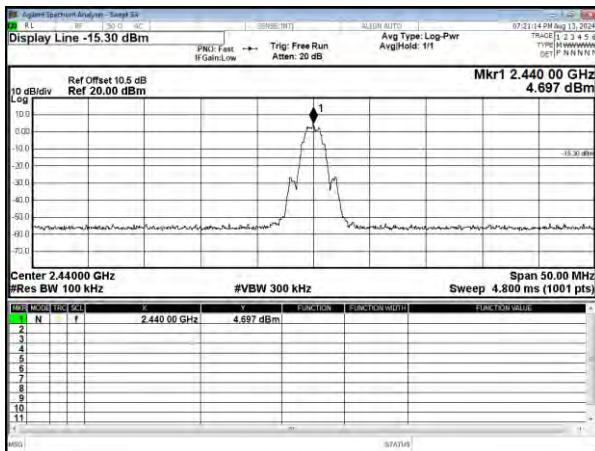
Modulation Type: GFSK 1Mbps
CH39



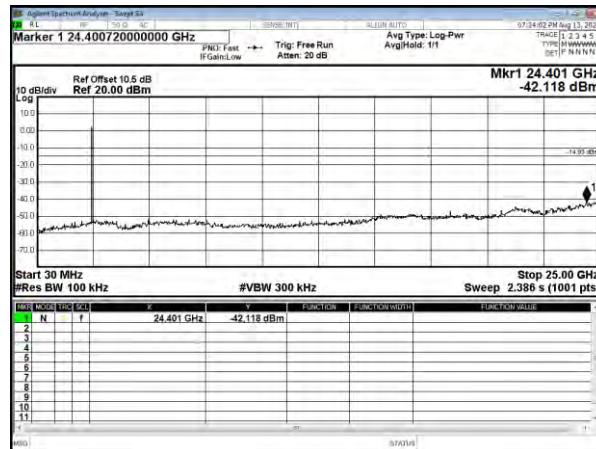
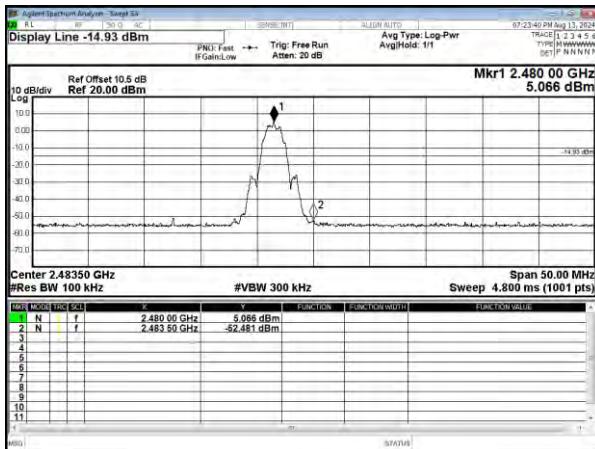
Modulation Type: GFSK 2Mbps
CH00



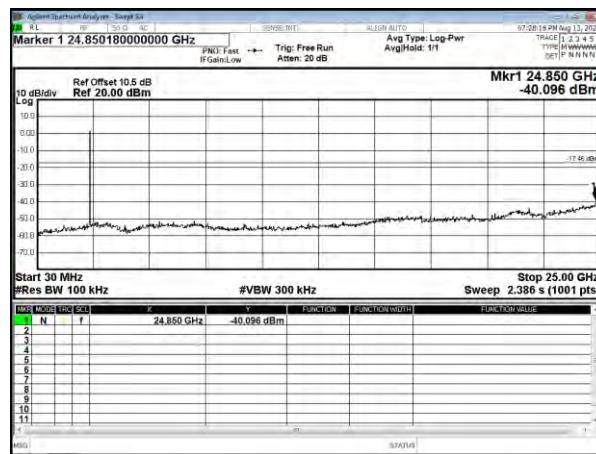
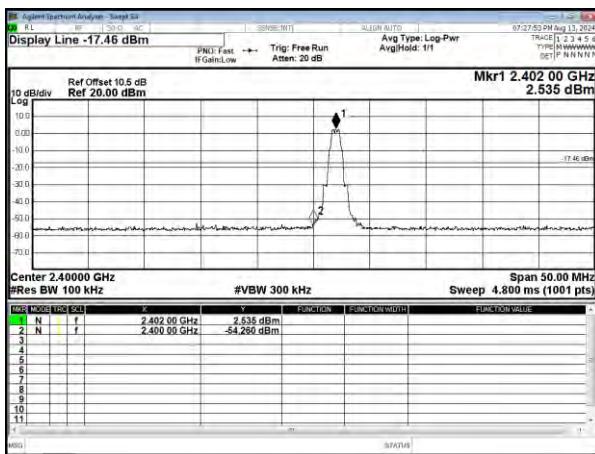
Modulation Type: GFSK 2Mbps
CH19



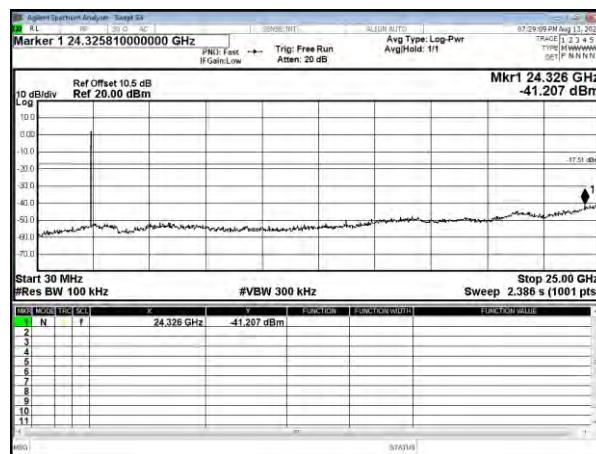
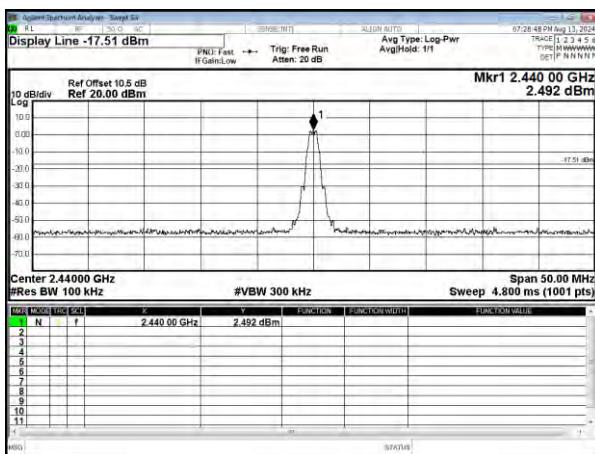
Modulation Type: GFSK 2Mbps
CH39



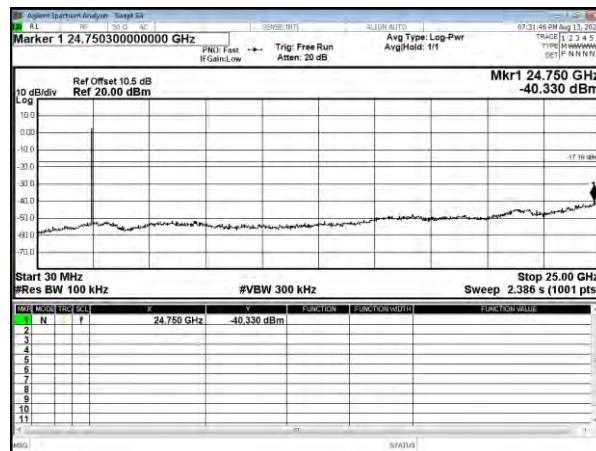
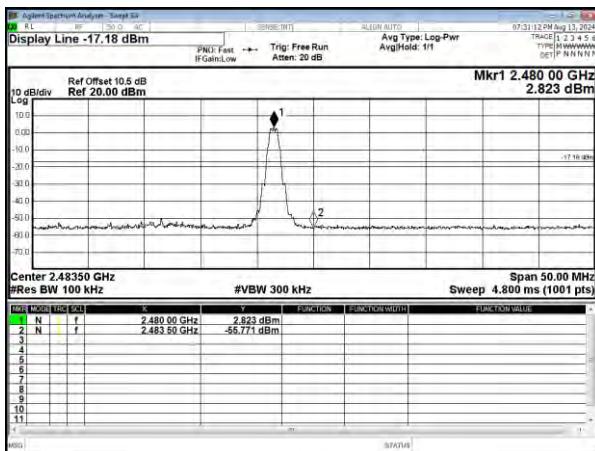
Modulation Type: GFSK 125Kbps
CH00



Modulation Type: GFSK 125Kbps
CH19

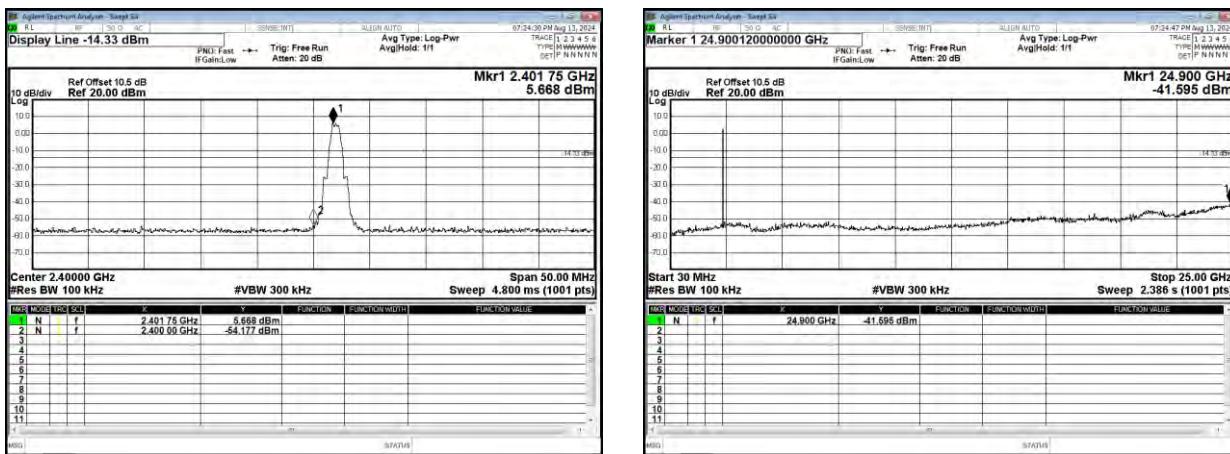


Modulation Type: GFSK 125Kbps
CH39

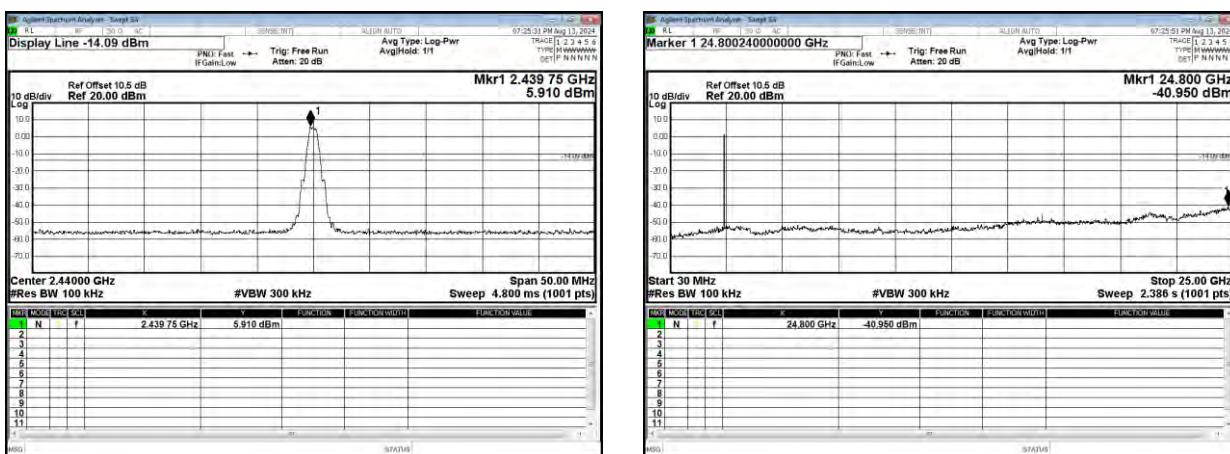




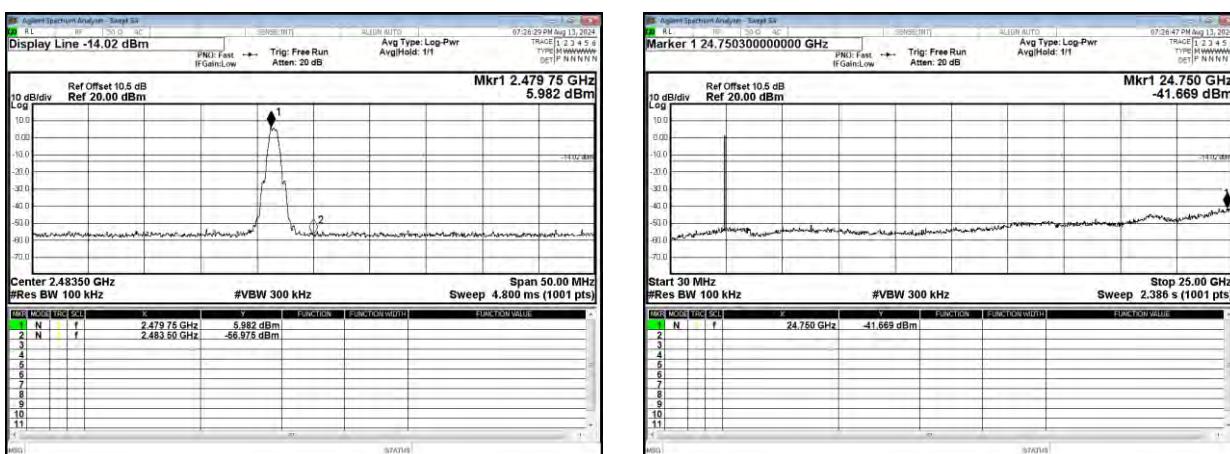
Modulation Type: GFSK 500Kbps
CH00



Modulation Type: GFSK 500Kbps
CH19



Modulation Type: GFSK 500Kbps
CH39





8. On Time, Duty Cycle and Measurement methods

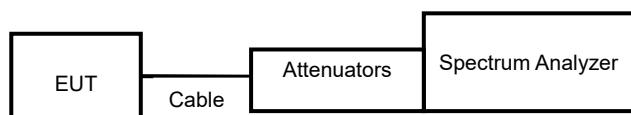
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout

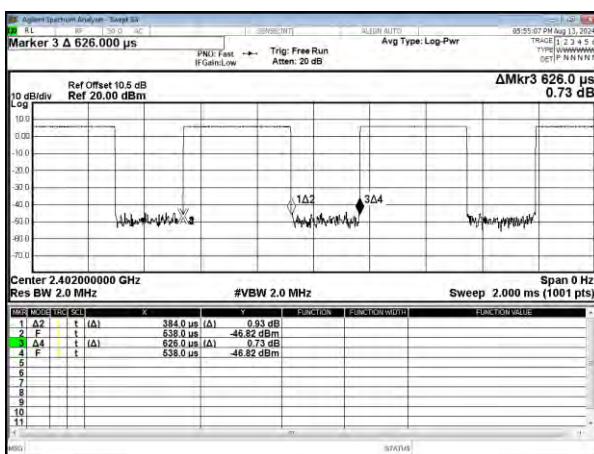




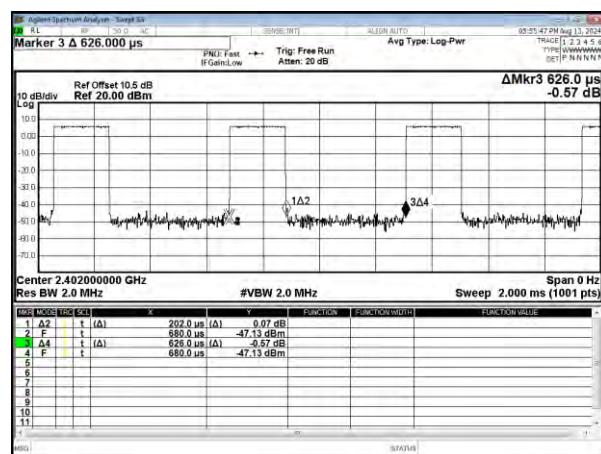
8.4 Test Result and Data

Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)
GFSK(1Mbps)	0.384	0.626	61.34%
GFSK(2Mbps)	0.202	0.626	32.27%
GFSK(125Kbps)	3.128	3.752	83.37%
GFSK(500Kbps)	1.075	1.870	57.49%

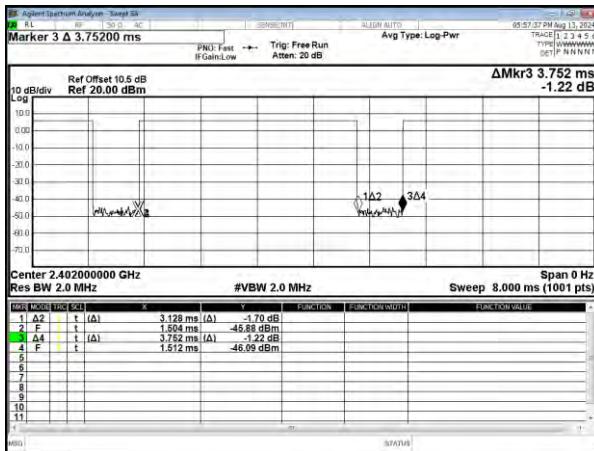
Modulation Type: GFSK 1Mbps



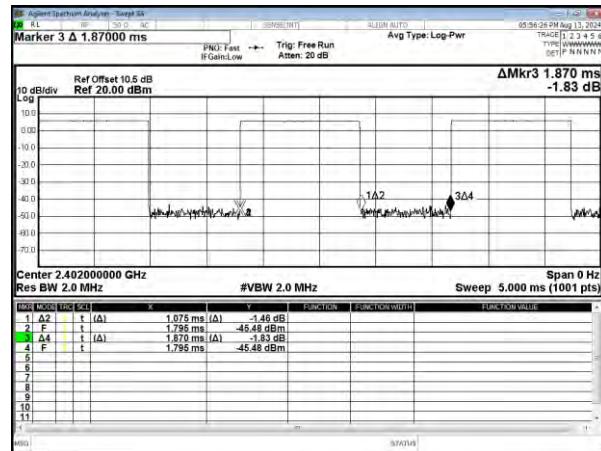
Modulation Type: GFSK 2Mbps



Modulation Type: GFSK 125Kbps



Modulation Type: GFSK 500Kbps





9. 6dB Bandwidth Measurement Data

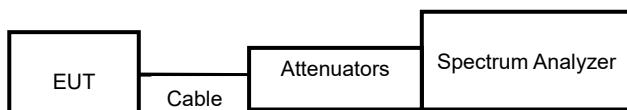
9.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and VBW $\geq 3 \times$ RBW.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

9.3 Test Setup Layout

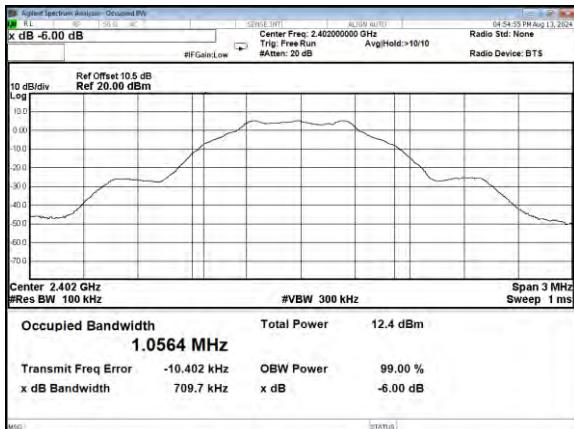


9.4 Test Result and Data

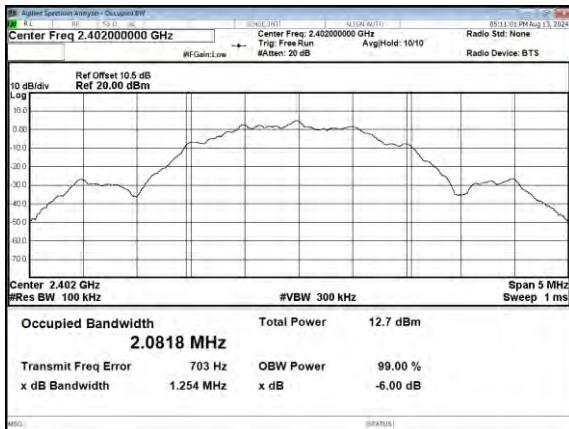
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (KHz)	Limit (KHz)
GFSK (1Mbps)	00	2402	709.70	500
	19	2440	692.80	500
	39	2480	709.80	500
GFSK (2Mbps)	00	2402	1254.00	500
	19	2440	1256.00	500
	39	2480	1256.00	500
GFSK (125Kbps)	00	2402	697.50	500
	19	2440	688.00	500
	39	2480	682.50	500
GFSK (500Kbps)	00	2402	667.60	500
	19	2440	671.10	500
	39	2480	667.20	500



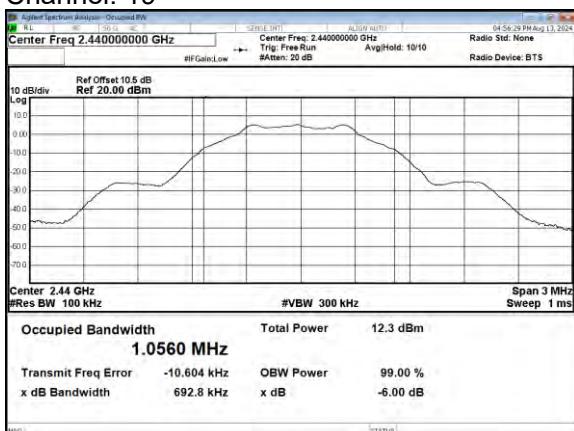
Modulation Standard: GFSK (1Mbps)
Channel: 00



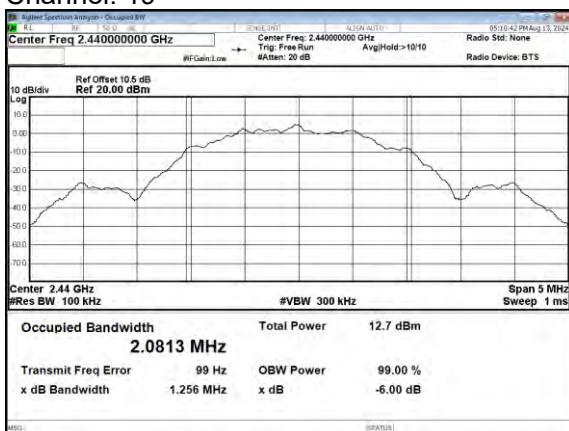
Modulation Standard: GFSK (2Mbps)
Channel: 00



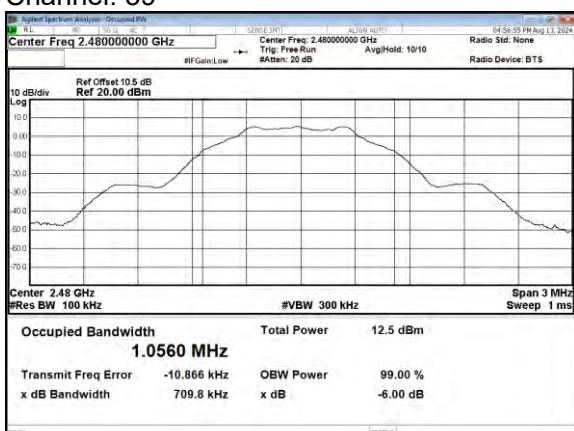
Modulation Standard: GFSK (1Mbps)
Channel: 19



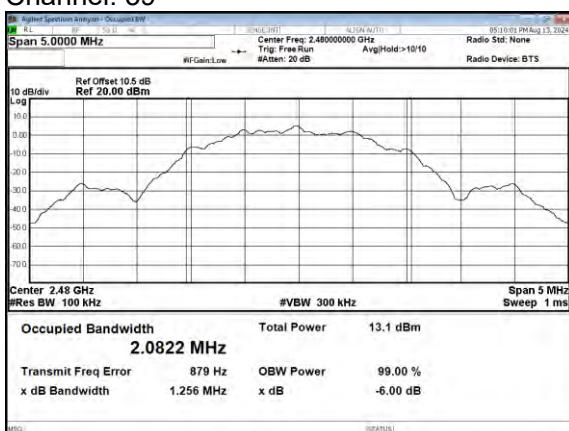
Modulation Standard: GFSK (2Mbps)
Channel: 19



Modulation Standard: GFSK (1Mbps)
Channel: 39

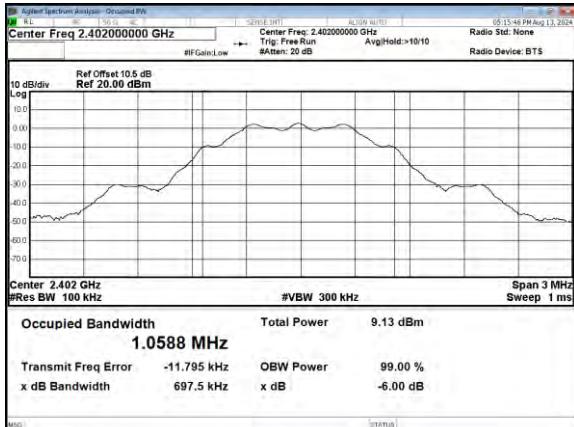


Modulation Standard: GFSK (2Mbps)
Channel: 39

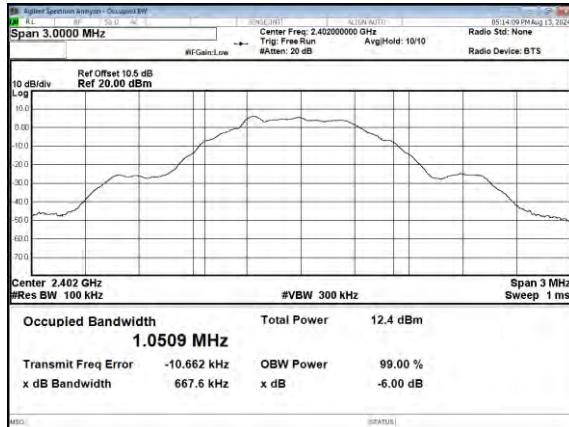




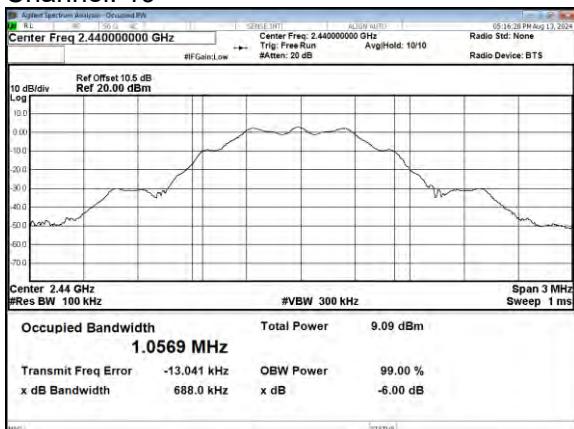
Modulation Standard: GFSK (125Kbps)
Channel: 00



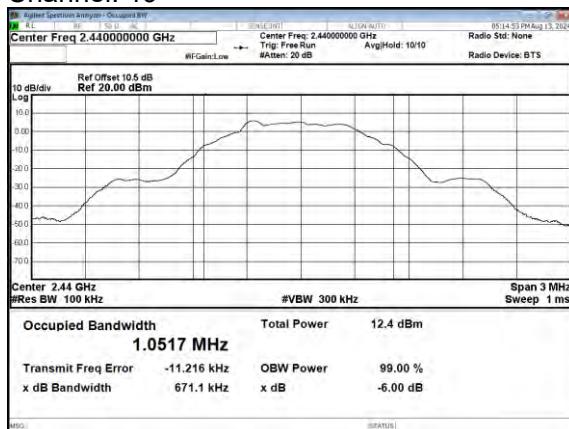
Modulation Standard: GFSK (500Kbps)
Channel: 00



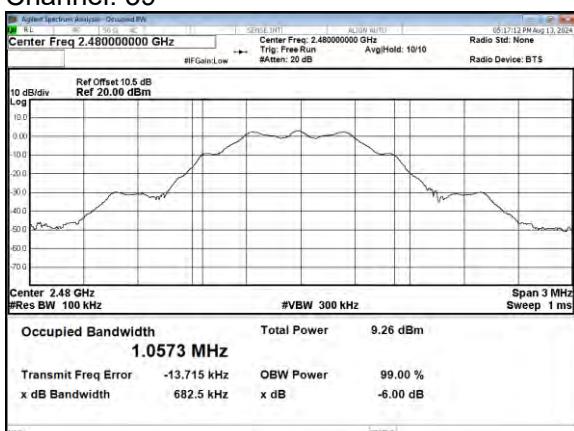
Modulation Standard: GFSK(125Kbps)
Channel: 19



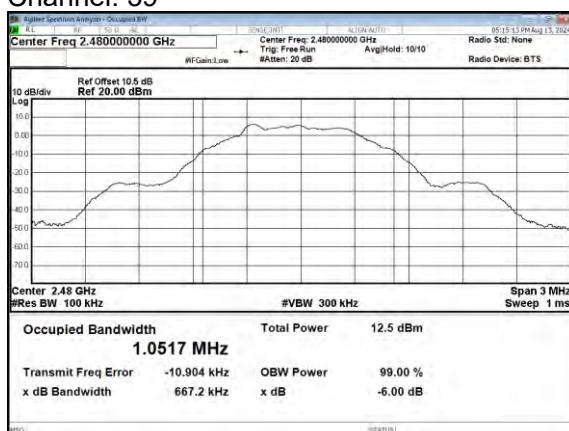
Modulation Standard: GFSK (500Kbps)
Channel: 19



Modulation Standard: GFSK (125Kbps)
Channel: 39



Modulation Standard: GFSK (500Kbps)
Channel: 39





10. Maximum Peak Output Power

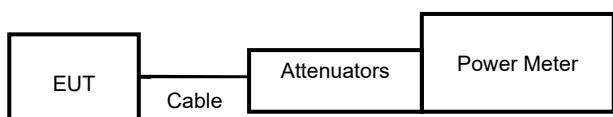
10.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

10.2 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.

10.3 Test Setup Layout



10.4 Test Result and Data

Modulation Standard	Channel	Frequency (MHz)	Power Output (dBm)	Peak Power Output (mW)
GFSK (1Mbps)	00	2402	7.220	5.272
	19	2440	7.200	5.248
	39	2480	7.270	5.333
GFSK (2Mbps)	00	2402	7.750	5.957
	19	2440	7.760	5.970
	39	2480	8.000	6.310
GFSK (125Kbps)	00	2402	7.180	5.224
	19	2440	7.220	5.272
	39	2480	7.410	5.508
GFSK 500Kbps	00	2402	7.240	5.297
	19	2440	7.300	5.370
	39	2480	7.340	5.420



11. Power Spectral Density

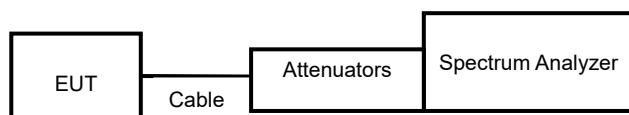
11.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

11.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 10KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- c. The power spectral density was measured and recorded.

11.3 Test Setup Layout





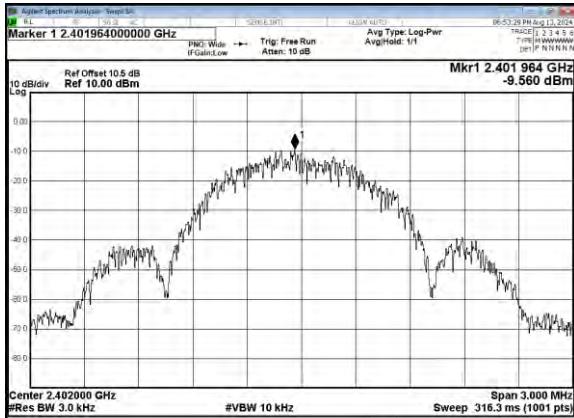
11.4 Test Result and Data

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)	Limit
GFSK (1Mbps)	00	2402	-9.560	8.00
	19	2440	-9.574	8.00
	39	2480	-9.284	8.00
GFSK (2Mbps)	00	2402	-11.725	8.00
	19	2440	-11.901	8.00
	39	2480	-11.880	8.00
GFSK (125Kbps)	00	2402	-0.366	8.00
	19	2440	-0.370	8.00
	39	2480	-0.048	8.00
GFSK (500Kbps)	00	2402	-1.181	8.00
	19	2440	-0.317	8.00
	39	2480	-0.258	8.00

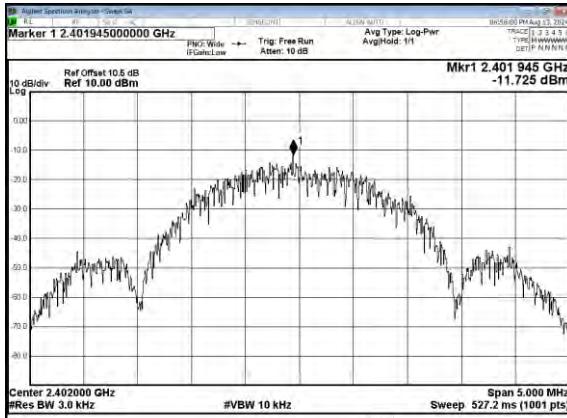
Note: Test plots refer to the following pages.



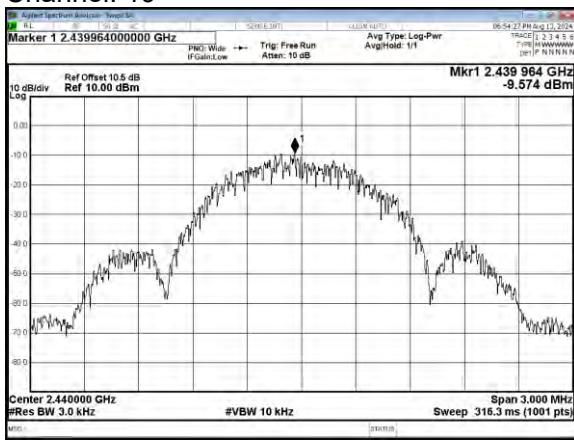
Modulation Standard: GFSK (1Mbps)
Channel: 00



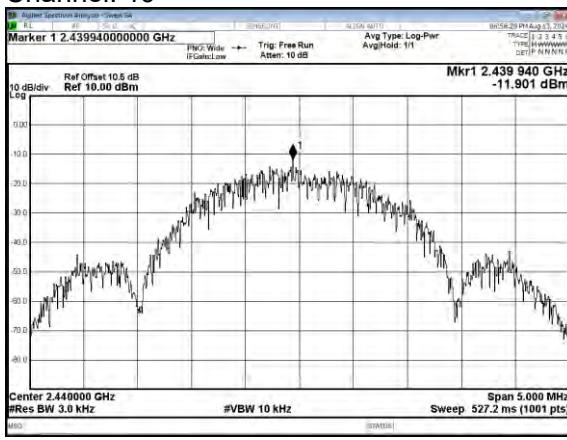
Modulation Standard: GFSK (2Mbps)
Channel: 00



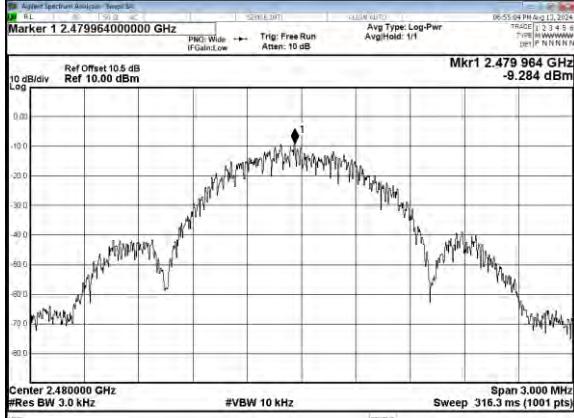
Modulation Standard: GFSK (1Mbps)
Channel: 19



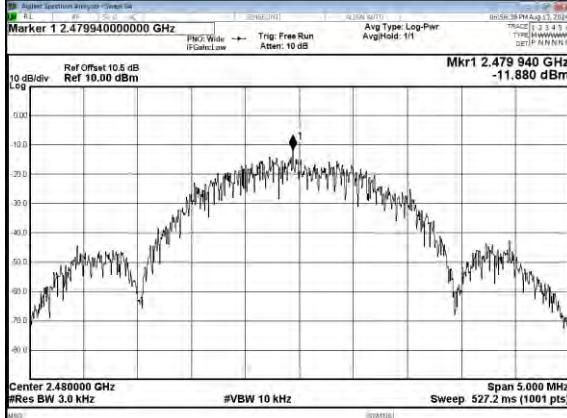
Modulation Standard: GFSK (2Mbps)
Channel: 19



Modulation Standard: GFSK (1Mbps)
Channel: 39

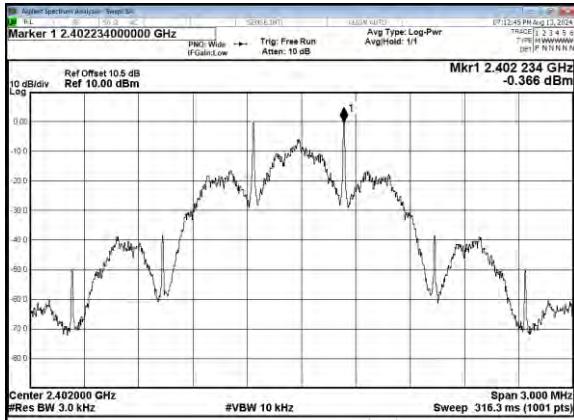


Modulation Standard: GFSK (2Mbps)
Channel: 39

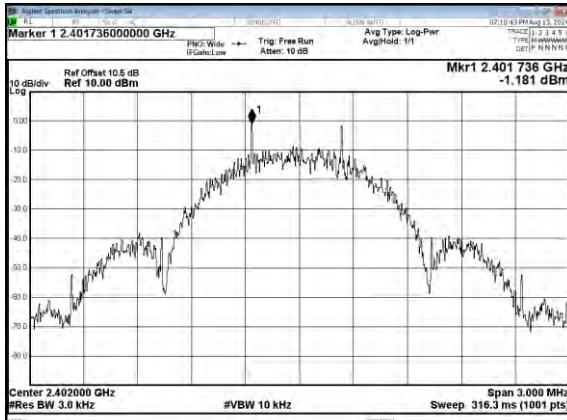




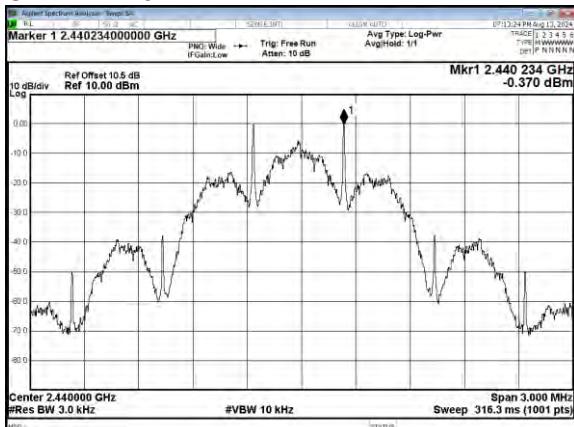
Modulation Standard: GFSK (125Kbps)
Channel: 00



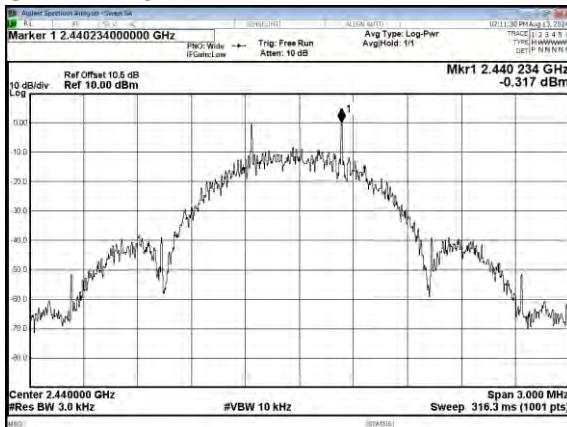
Modulation Standard: GFSK (500Kbps)
Channel: 00



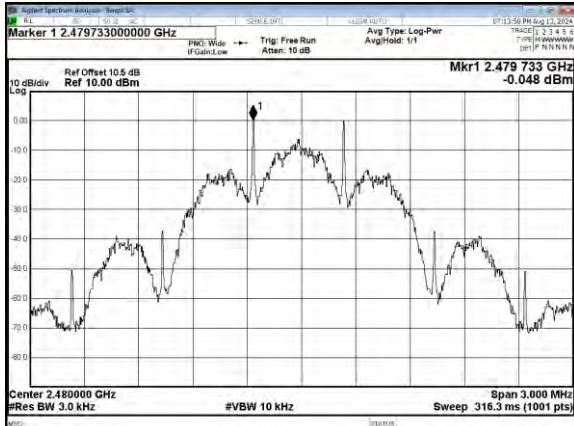
Modulation Standard: GFSK(125Kbps)
Channel: 19



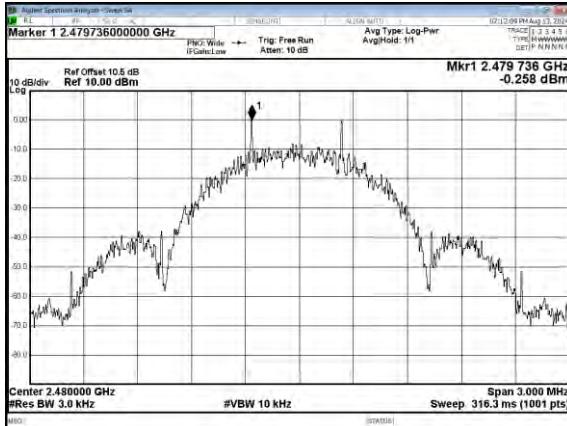
Modulation Standard: GFSK (500Kbps)
Channel: 19



Modulation Standard: GFSK (125Kbps)
Channel: 39



Modulation Standard: GFSK (500Kbps)
Channel: 39



----- End of the report -----