

FCC Part 15, Subpart C Test Report

FCC ID: 2AR2STAQ2000

Applicant: MMD Hong Kong Holding Limited

Address: Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street,
Kwun Tong, Kowloon, Hong Kong

Manufacturer: MMD Hong Kong Holding Limited

Address: Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street,
Kwun Tong, Kowloon, Hong Kong

Product(s): Open-ear True wireless earbuds

Brand(s): PHILIPS or 

Test Model(s): TAQ2000

Series Model(s): See section 2.1

Test Date: Dec. 20, 2024 ~ Feb. 27, 2025

Issued Date: Apr. 29, 2025

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

Address: No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park, HuangJiang
Town, Dongguan City, People's Republic of China

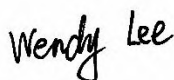
Test Firm Registration No.: 915896

Designation No.: CN1255

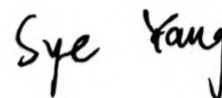
Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2013

The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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Test Report No.: 2412050592-RF-US-01

Release Control Record

Issue No.	Description	Date Issued
2412050592-RF-US-01	Original Release	Apr. 29, 2025

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1 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247) KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013;			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit.
15.247(a)(1) (iii)	Number of Hopping Frequency Used	Pass	Meet the requirement of limit.
15.247(a)(1) (iii)	Dwell Time on Each Channel	Pass	Meet the requirement of limit.
15.247(a)(1)	1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	Pass	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Reference only
15.205 & 209	Radiated Emissions	Pass	Meet the requirement of limit.
15.247(d)	Band Edge Measurement	Pass	Meet the requirement of limit.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note1: If the Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.

Note2: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (sDoC). The test report has been issued separately.

1.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The listed uncertainties are the worst-case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9KHz ~ 30MHz	2.16 dB
	30MHz ~ 1000MHz	3.47 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	4.71 dB
	6GHz~18GHz	4.84 dB
	18GHz ~ 40GHz	5.73 dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

1.2 Modification Record

There were no modifications required for compliance.

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2 General Information**2.1 General Description of EUT**

Product(s)	Open-ear True wireless earbuds
Test Model(s)	TAQ2000
Sample No.	HS2412050592-S002, HS2412050592-S003
Series Model(s)	TAQ2000xx/yy (xx=AA-ZZ or blank denoted different color; yy=00-99 denoted different country destination)
Status of EUT	Engineering Prototype
Power Supply Rating	Charging case: DC 5V from USB or DC 3.7V from battery Each earbud: DC 5V from Charge case or DC 3.85V from battery
Modulation Type	GFSK, $\pi/4$ DQPSK, 8DPSK for FHSS
Transfer Rate	1Mbps, 2Mbps, 3Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	79
Output Power (Peak)	Left: 3.678dBm Right: 3.065dBm
Antenna Type and Antenna Gain	PIFA Antenna; 3.91dBi Gain (Left earphone), 3.21dBi Gain (Right earphone)
Antenna Connector	N/A
Accessory Device	N/A
Cable Supplied	Type-C Cable: Unshielded, 20cm

Note:

1. Please refer to the EUT photo document (Reference No.: 2412050592-01&02) for detailed product photo.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.
Hwa-Hsing (Dongguan) Testing Co., Ltd. is not responsible for the accuracy of the information provided by the manufacturer.
3. This product has two Bluetooth Chips (distribute left earphone and right earphone), they are identical in RF circuitry and antenna except the layout of partial components; both of the earphones are tested on all items, and the report only shows the worst data-Left earphone.
4. Model differences: All models are identical except model name and color for marketing purpose.

2.2 Description of Test Modes

79 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	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	78	2480
19	2421	39	2441	59	2461	–	–

2.3 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable test items	X-Axis	Y-Axis	Z-Axis	Voltage Supply
Conducted	AC Power Conducted Emission	N/A	N/A	N/A	DC 5V from USB via AC120V input
Radiated	Radiated Emissions	√	√	√	DC 3.85V from battery
Antenna Port Conducted Measurement	Number of Hopping Frequency Used	N/A	N/A	N/A	
	Dwell Time on Each Channel	N/A	N/A	N/A	
	Band Edge Measurement	N/A	N/A	N/A	
	Antenna Port Emission	N/A	N/A	N/A	
	Conducted power	N/A	N/A	N/A	
	Hopping Channel Separation	N/A	N/A	N/A	
	Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	N/A	N/A	N/A	
1. *: The EUT had been pre-tested on the positioned of each 3 Axis. The worst case was found when positioned on X-plane . 2. "N/A" means no effect.					

Evaluation of difference data rate:

Applicable test items	Modulation Type			The Worst-case modes recording in report
	GFSK	$\pi/4$ DQPSK	8DPSK	
Radiated Emissions	√	√	√	GFSK& 8DPSK
Antenna Port Conducted Measurement	√	√	√	GFSK& 8DPSK

Test Condition:

Applicable test items	Environmental Conditions	Test Date	Tested by
Radiated Emissions	24.1deg. C, 56%RH	Feb. 12, 2025	Hua
Antenna Port Conducted Measurement	25.5deg. C, 58%RH	Feb. 17, 2025	Sye

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Radiated Emission Test (Above 1 GHz):

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5
-	0 to 78	0, 39, 78	FHSS	8DPSK	3DH5

Radiated Emission Test (Below 1 GHz):

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	0	FHSS	GFSK	DH5
-	0 to 78	0	FHSS	8DPSK	3DH5

Power Line Conducted Emission Test:

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	39	FHSS	GFSK	DH5

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5
-	0 to 78	0, 39, 78	FHSS	8DPSK	3DH5

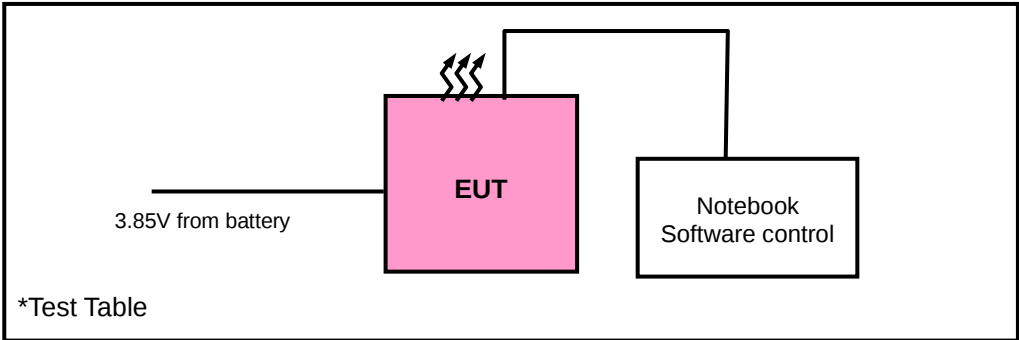
2.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	Notebook	HUAWEI	NbD-WFH9	EUEPM21725002655	N/A
2	Notebook	DELL	Inspiron 14R Aluminum Edition	6WPG9-63PV4-RBPF2-T6RHW-W9GBP	N/A
3	Adapter	UGREEN	CD231	80913	N/A
4	True wireless headphones	PHILIPS	TAQ2000	HS2412050592-S002	2AR2STAQ2000

No.	Signal Cable Description of The Above Support Units
1	USB extension cord: Unshielded, Detachable 1.2m;

2.5 Configuration of System under Test



3 Test Types and Results**3.1 Radiated Emission and Band-edge Measurement****3.1.1 Limits of Radiated Emission and Band-edge Measurement**

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/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

* DTS emissions in non-restricted frequency bands Subclause 11.11 of ANSI C63.10 is applicable.

* DTS emissions in restricted frequency bands Subclause 11.12 of ANSI C63.10 is applicable.

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

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3.1.2 Test Instruments

Radiated emission below 30MHz:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	100962	2025-07-25
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	NSEMC003	2026-03-12*
Test software	FARAD	FARAD	EZ EMCV1.1.4.2	N/A
Loop Antenna	EMCI	HLA 6121	56735	2025-05-03
Antenna Tower	MF	MFA-440H	NA	NA
Turn Table	MF	MFT-201SS	NA	NA
Antenna Tower&Turn Table Controller	MF	MF-7802	NA	NA

Frequency Range below 1GHz:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver (9kHz~3GHz)	Rohde&Schwarz	ESPI 7	101978	2025-07-25
Broadband antenna (30MHz~1000MHz)	Schwarzbeck	VULB 9168	937	2025-07-25
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	HS-2018037	2026-03-12*
Signal Amplifier (30MHz~1000MHz)	Com-power	PAM-103	18020051	2025-07-25
Attenuator	R&S	TS2GA-6dB	18101101	N/A
Test software	FARAD	EZ EMC V1.1.4.2	N/A	N/A

Frequency Range above 1GHz:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESPI 7	101978	2025-07-25
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	NSEMC003	2026-03-12*
Test software	FARAD	EZ EMCV1.1.4.2	N/A	N/A
Digital Multimeter	FLUKE	15B+	54990003WS	2025-07-25
Horn Antenna	Schwarzbeck	BBHA 9120 D	1959	2025-08-15
Spectrum Analyzer	Rohde&Schwarz	FSV40	101783	2025-07-25
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	25	2025-07-25
Pre-Amplifier	EMCI	EMC 184045SE	9870709	2025-07-25
Spectrum	Keysight	N9020A	MY51240612	2025-07-25

Note:

1. The calibration interval of the above test instruments is 12 months or 36* months.
2. The test was performed in 966.

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3.1.3 Test Procedures

a. Peak emission levels are measured by setting the instrument as follow:

- 1) RBW&VBW setting as a function of frequency:

Frequency	RBW	VBW
9kHz~150kHz	200Hz	600Hz
0.15MHz~30MHz	9kHz	30kHz
30MHz~1000MHz	120kHz	300kHz
>1000MHz	1MHz	3MHz

- 2) Detector = peak.
- 3) Sweep time = auto.
- 4) Trace mode = max hold.
- 5) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Note: If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement

b. Average emission levels are measured by setting the instrument as follow:**● Trace averaging with continuous EUT transmission at full power**

If the EUT can be configured or modified to transmit continuously ($D \geq 98\%$), then the average emission levels shall be measured using the following method (with EUT transmitting continuously):

- 1) RBW=1 MHz (unless otherwise specified).
- 2) $VBW \geq 3 * RBW$.
- 3) Detector =RMS
- 4) Sweep time = auto.
- 5) Perform a trace average of at least 100 traces.

● Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT ($D \geq 98\%$) cannot be achieved and the duty cycle is constant (duty cycle variations are less than $\pm 2\%$), then the following procedure shall be used

- 1) The EUT shall be configured to operate at the maximum achievable duty cycle.
- 2) Measure the duty cycle D of the transmitter output signal as described in 11.6.
- 3) RBW=1 MHz (unless otherwise specified).
- 4) $VBW \geq 3 * RBW$.
- 5) Detector =RMS
- 6) Sweep time = auto.
- 7) Perform a trace average of at least 100 traces.

A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

*If power averaging (rms) mode was used in step 5), then the applicable correction factor is $[10 \log (1/D)]$, where D is the duty cycle.

**If linear voltage averaging mode was used in step f), then the applicable correction factor is $[20 \log (1/D)]$, where D is the duty cycle.

***If a specific emission is demonstrated to be continuous ($D > 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that.

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● Reduced VBW Averaging across ON and OFF times of the EUT transmissions with max hold

If continuous transmission of the EUT ($D > 98\%$) cannot be achieved and the duty cycle is not constant (duty cycle variations exceed $\pm 2\%$), then the following procedure shall be used:

- 1) RBW = 1 MHz.
 - 2) $VBW \geq 1/T$.
 - 3) Detector = peak
 - 4) Sweep time = auto.
 - 5) Trace mode = max hold.
 - 6) Allow max hold to run for at least $[50 \times (1/D)]$ traces
- c. The EUT was placed on the top of a rotating table 0.8 meters (below 1GHz) / 1.5 meters (Above 1GHz) above the reference ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The EUT was set 3 meters away from the interference-receiving antenna (Below 1GHz) & (Above 1GHz), which was mounted on the top of a variable-height antenna tower.
- e. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- g. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- h. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. Test procedures for measuring FHSS device: The use of a duty cycle correction factor (DCCF) is permitted for calculating average radiated field strength emission levels for an FHSS device in 15.247. This DCCF can be applied when the unwanted emission limit is subject to an average field strength limit (e.g., within a Government Restricted band) and the conditions specified in Section 15.35(c) can be satisfied. The average radiated field strength is calculated by subtracting the DCCF from the maximum radiated field strength level as determined through measurement. The maximum radiated field strength level represents the worst-case (maximum amplitude) RMS measurement of the emission(s) during continuous transmission (i.e., not including any time intervals during which the transmitter is off or is transmitting at a reduced power level). It is also acceptable to apply the DCCF to a measurement performed with a peak detector instead of the specified RMS power averaging detector. Note that Section 15.35(c) specifies that the DCCF shall represent the worst-case (greatest duty cycle) over any 100 msec transmission period. Subclause 7.5 of ANSI C63.10 provides additional measurement guidance applicable to determination of the DCCF.
2. All modes of operation were investigated and the worst-case emissions are reported.

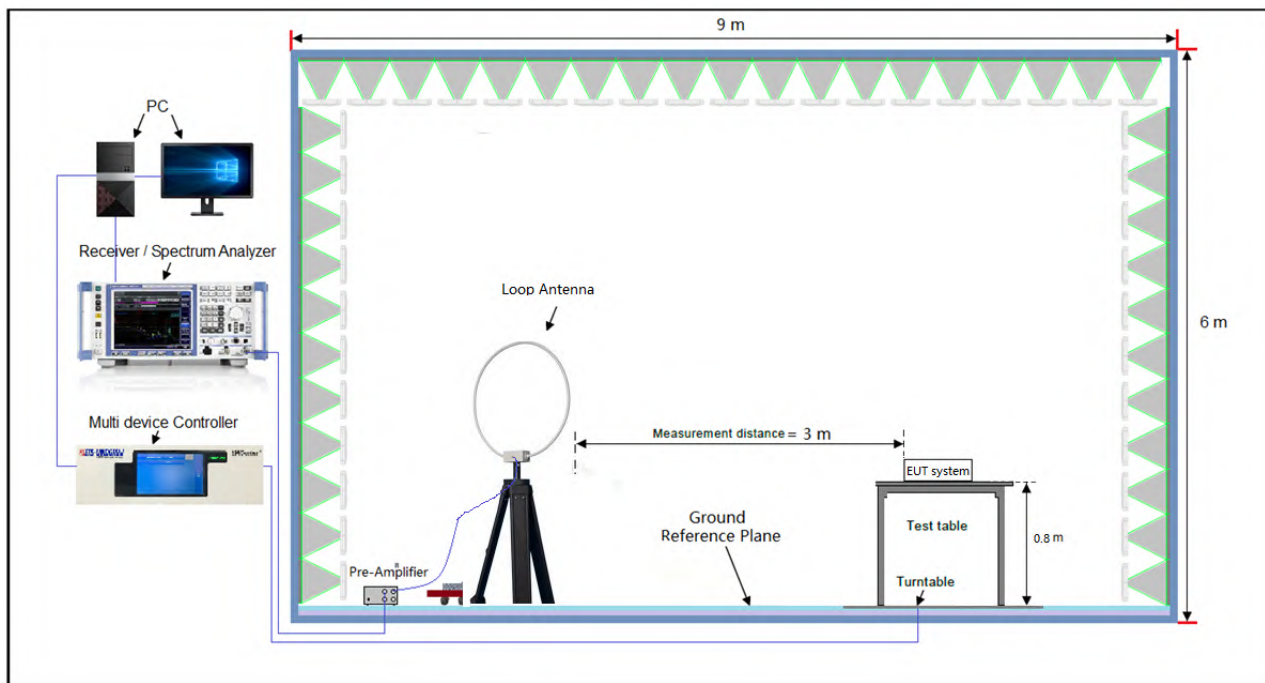
3.1.4 Deviation from Test Standard

No deviation.

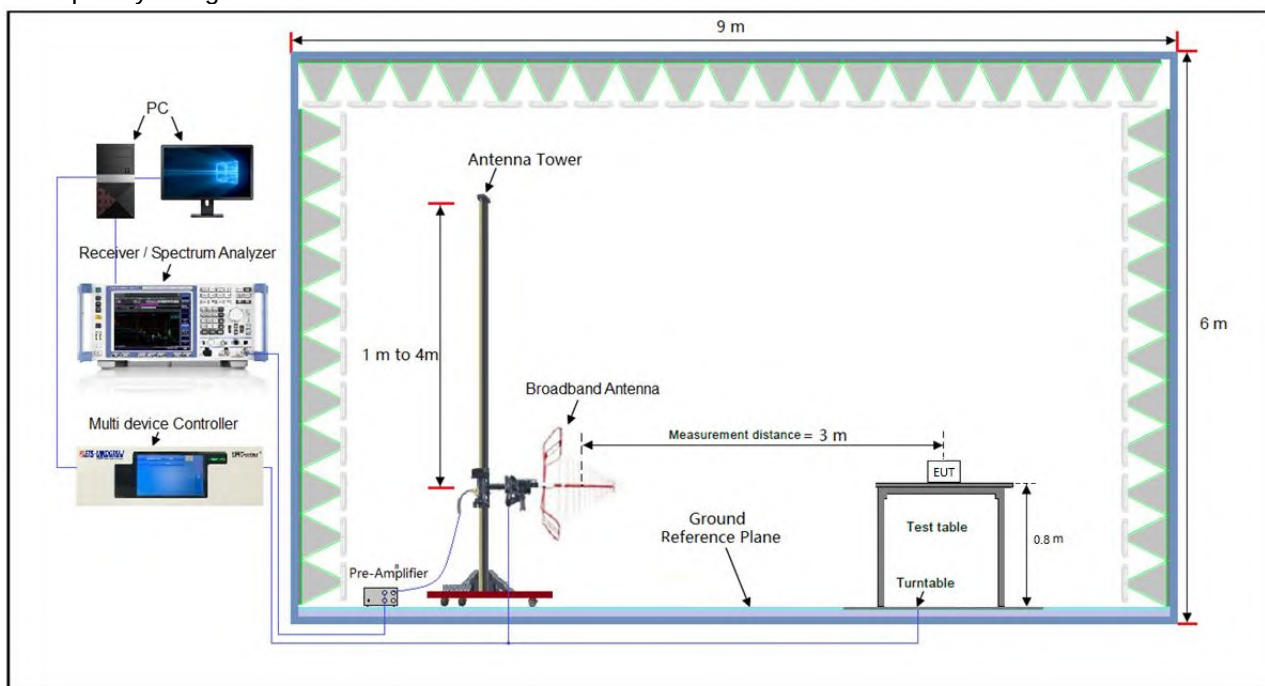
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3.1.5 Test Setup

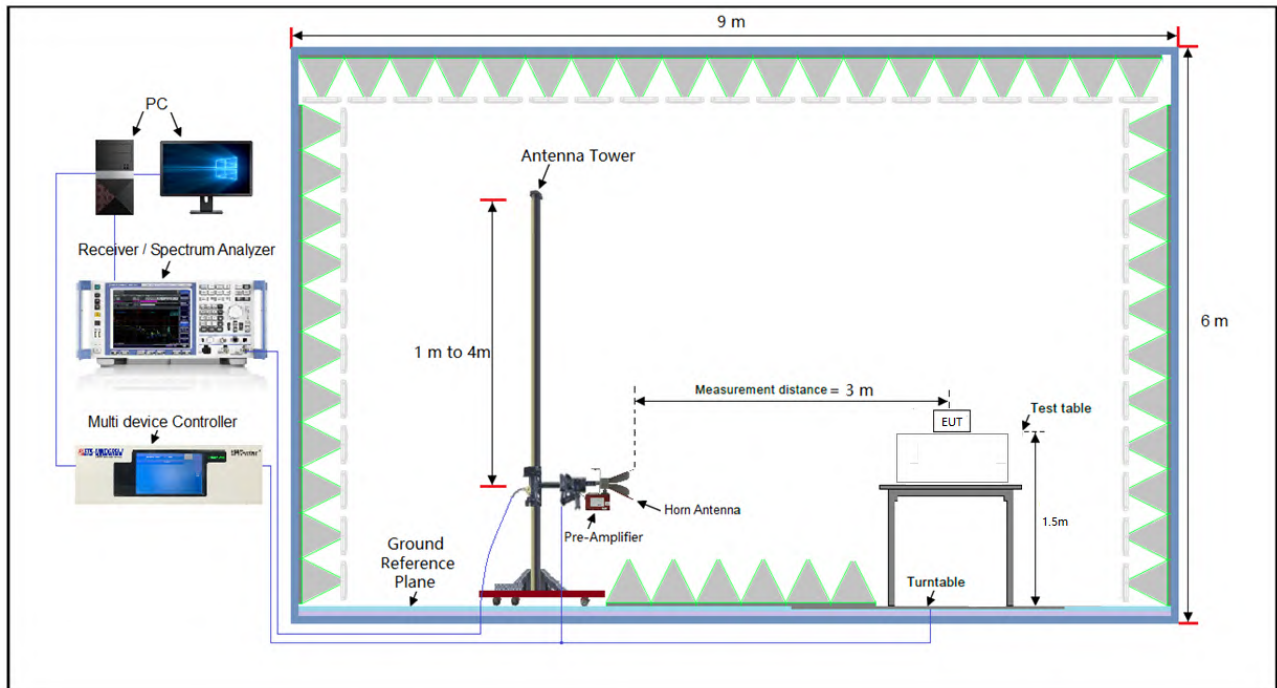
Radiated emission below 30MHz:



Frequency Range below 1GHz:



Frequency Range above 1GHz:



*For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT Operating Conditions

Set the EUT under transmission condition continuously at specific channel frequency.

Test Report No.: 2412050592 -RF-US-01

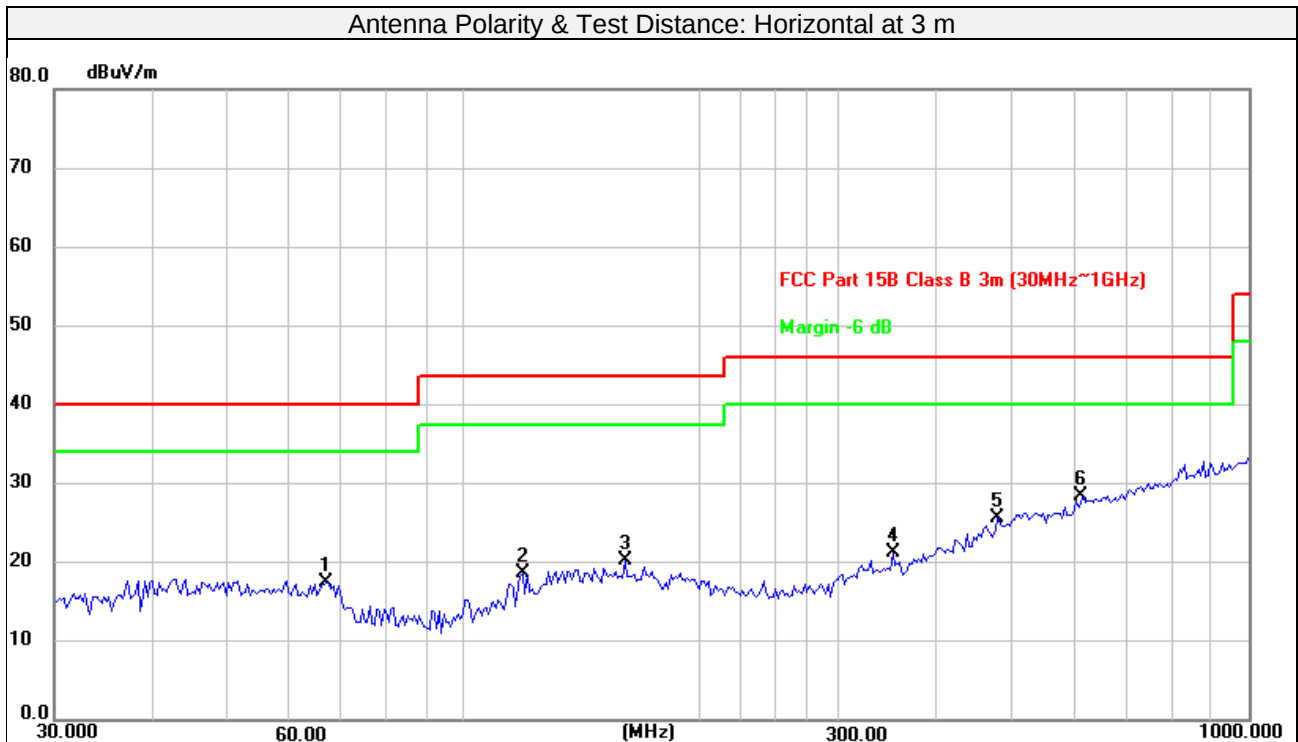
3.1.7 Test Results

9 kHz ~ 30 MHz Data:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1GHz Worst-Case Data:

Frequency Range	30MHz ~ 1GHz	Detector Function	Peak (PK) Quasi-peak (QP)
Test Channel	Channel 0		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1	66.7325	34.94	-17.39	17.55	40.00	-22.45	peak	100	333
2	118.6012	34.63	-16.02	18.61	43.50	-24.89	peak	150	200
3	160.3454	33.74	-13.45	20.29	43.50	-23.21	peak	120	180
4	351.7080	32.83	-11.58	21.25	46.00	-24.75	peak	133	3
5	478.8455	33.36	-7.68	25.68	46.00	-20.32	peak	200	210
6	616.3716	32.80	-4.46	28.34	46.00	-17.66	peak	150	225

Remarks:

- 1.Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
- 2.Margin value = Emission level – Limit value

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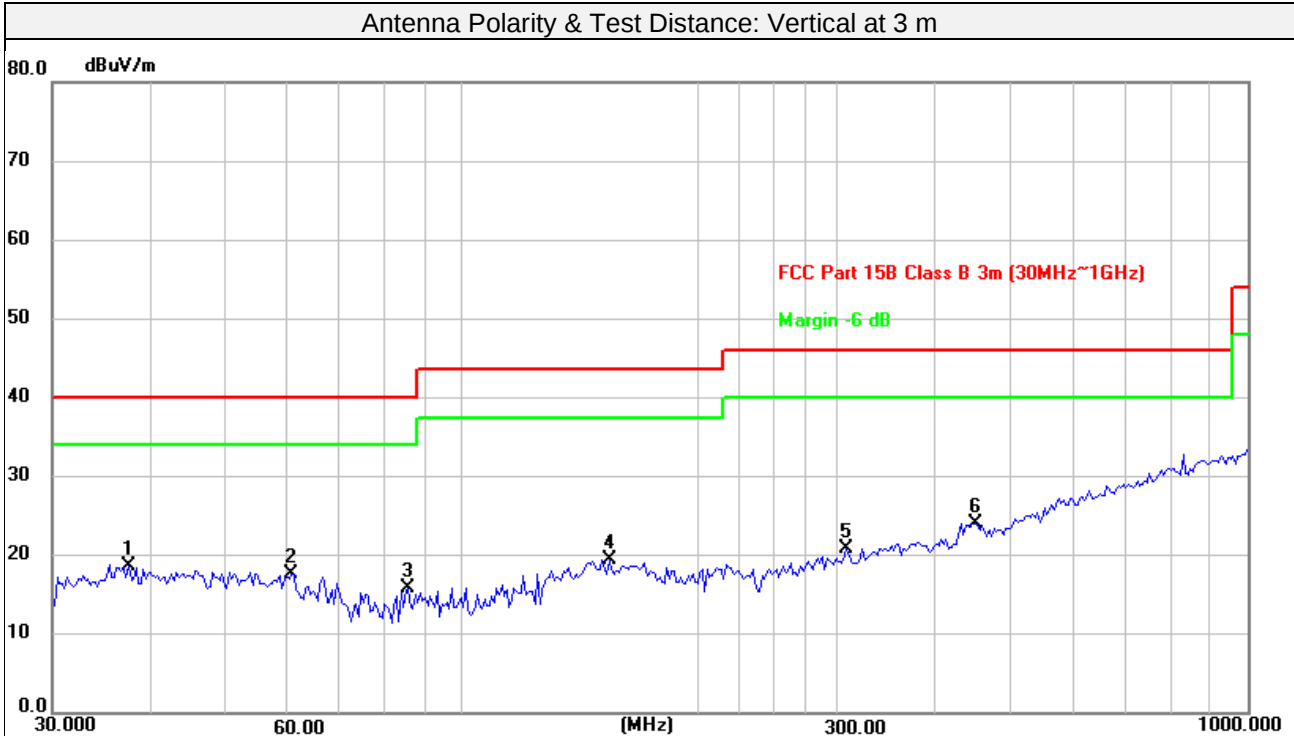
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Frequency Range	30MHz ~ 1GHz	Detector Function	Peak (PK) Quasi-peak (QP)
Test Channel	Channel 0		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1	37.5478	34.58	-15.83	18.75	40.00	-21.25	peak	150	210
2	60.4917	34.17	-16.44	17.73	40.00	-22.27	peak	100	0
3	85.2980	35.26	-19.33	15.93	40.00	-24.07	peak	110	325
4	153.7384	32.89	-13.39	19.50	43.50	-24.00	peak	200	300
5	307.8312	33.28	-12.48	20.80	46.00	-25.20	peak	150	140
6	449.5557	32.06	-7.94	24.12	46.00	-21.88	peak	100	70

Remarks:

1. Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
2. Margin value = Emission level – Limit value

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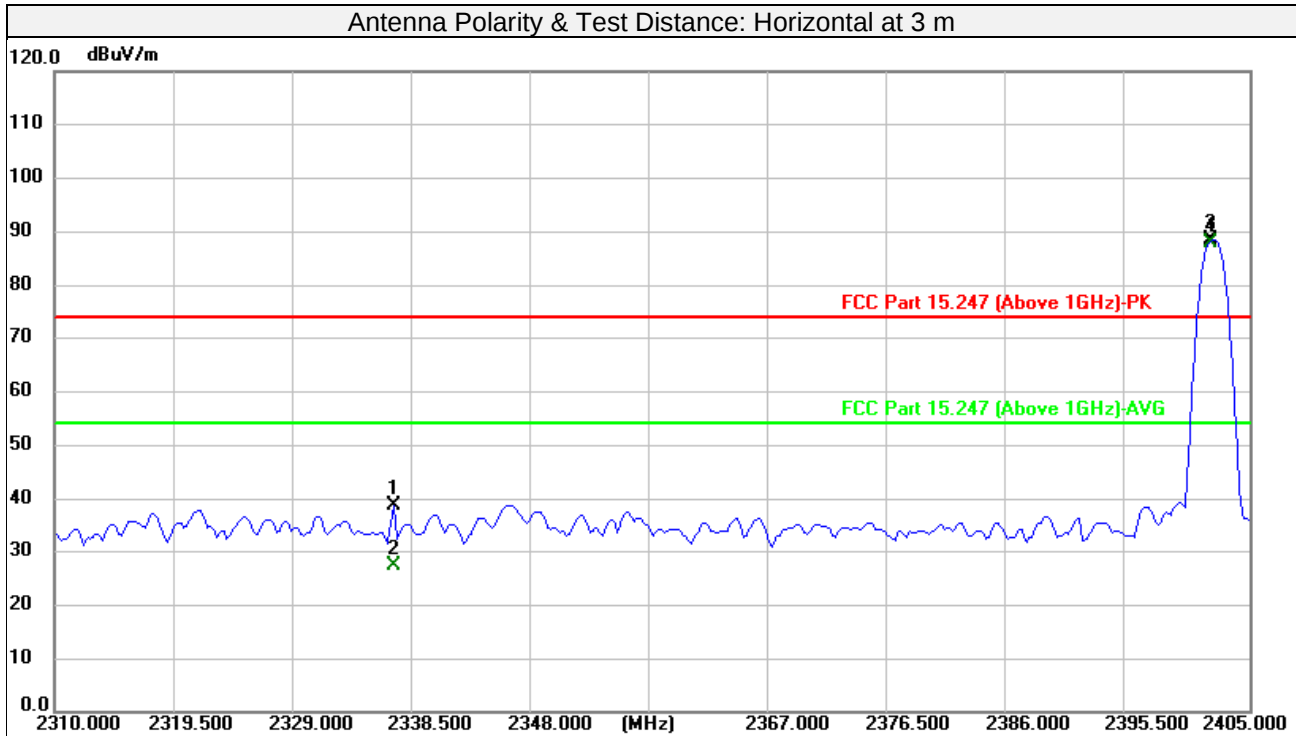
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Above 1GHz Data:

GFSK

Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 0		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1	2337.034	39.34	-0.53	38.81	74.00	-35.19	peak	127	61
2	2337.034	27.97	-0.53	27.44	54.00	-26.56	AVG	127	61
3 #	2402.144	88.70	-0.39	88.31			peak	127	61
4 #	2402.144	88.33	-0.39	87.94			AVG	127	61
5	4804.000	49.13	5.30	54.43	74.00	-19.57	peak	353	310
6	4804.000	45.64	5.30	50.94	54.00	-3.06	AVG	353	310
7	7206.000	41.49	12.40	53.89	74.00	-20.11	peak	250	186
8	7206.000	29.83	12.40	42.23	54.00	-11.77	AVG	250	186
9	9608.000	41.96	15.83	57.79	74.00	-16.21	peak	100	38
10	9608.000	33.75	15.83	49.58	54.00	-4.42	AVG	100	38

Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
- #2402MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

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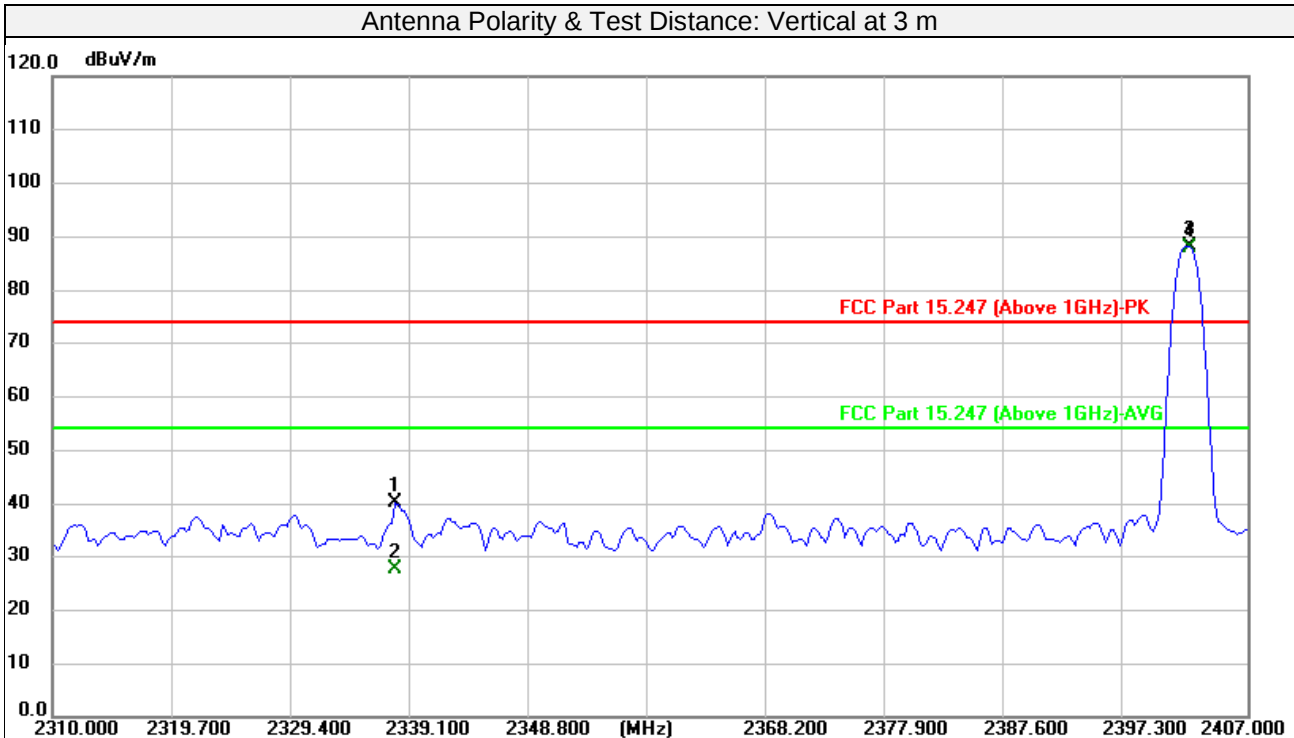
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Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 0		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1	2337.798	40.57	-0.53	40.04	74.00	-33.96	peak	142	29
2	2337.798	28.24	-0.53	27.71	54.00	-26.29	AVG	142	29
3 #	2402.335	88.48	-0.39	88.09	74.00	14.09	peak	142	29
4 #	2402.335	88.25	-0.39	87.86	54.00	33.86	AVG	142	29
5	4804.000	48.88	5.30	54.18	74.00	-19.82	peak	100	244
6	4804.000	45.26	5.30	50.56	54.00	-3.44	AVG	100	244
7	7206.000	40.62	12.40	53.02	74.00	-20.98	peak	112	86
8	7206.000	29.70	12.40	42.10	54.00	-11.90	AVG	112	86
9	9608.000	41.16	15.83	56.99	74.00	-17.01	peak	100	47
10	9608.000	34.10	15.83	49.93	54.00	-4.07	AVG	100	47

Remarks:

1. Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
2. #2402MHz: Fundamental frequency.
3. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

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Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 39		

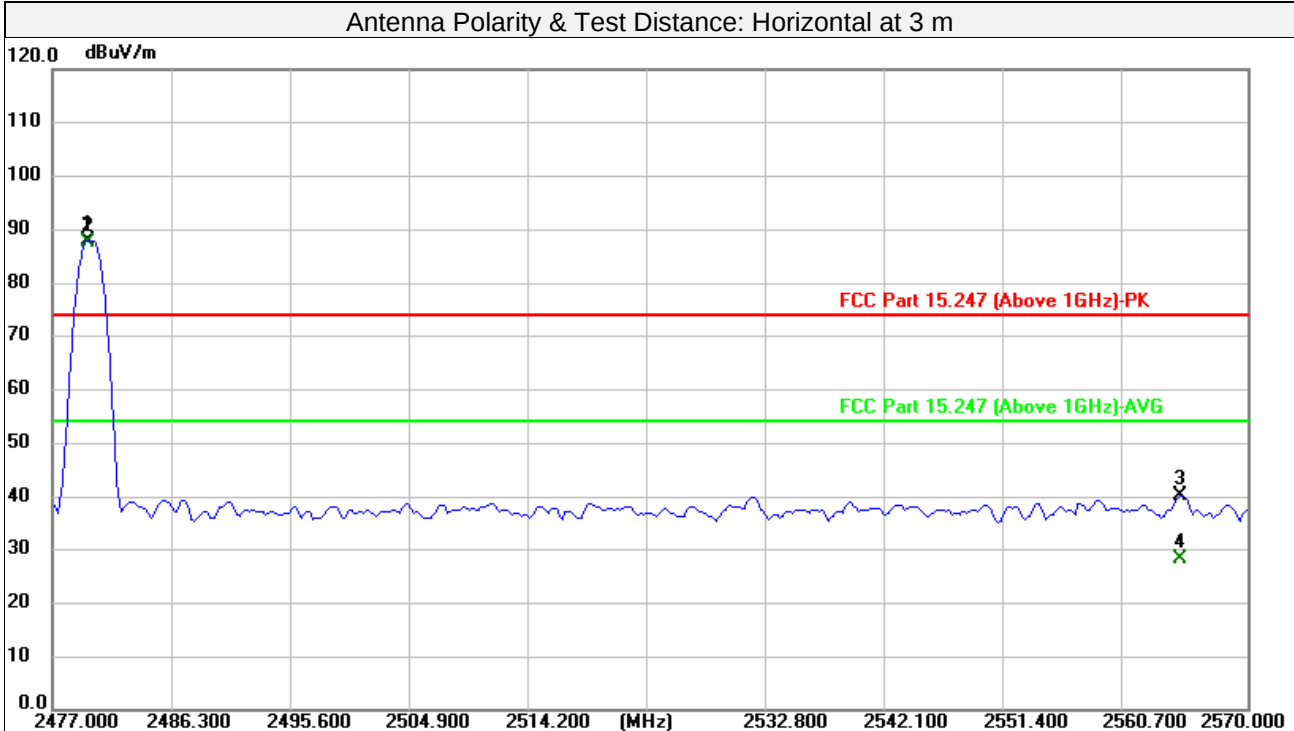
Antenna Polarity & Test Distance: Horizontal at 3 m									
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
#1	2441.000	88.37	-0.30	88.07			peak	146	357
#2	2441.000	87.88	-0.30	87.58			AVG	146	357
3	4882.000	48.40	6.27	54.67	74.00	-19.33	peak	100	259
4	4882.000	44.10	6.27	50.37	54.00	-3.63	AVG	100	259
5	7323.000	40.54	12.65	53.19	74.00	-20.81	peak	207	183
6	7323.000	29.38	12.65	42.03	54.00	-11.97	AVG	207	183
7	9764.000	41.19	16.24	57.43	74.00	-16.57	peak	151	162
8	9764.000	31.47	16.24	47.71	54.00	-6.29	AVG	151	162
Antenna Polarity & Test Distance: Vertical at 3 m									
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
#1	2441.000	89.06	-0.30	88.76			peak	109	86
#2	2441.000	88.17	-0.30	87.87			AVG	109	86
3	4882.000	47.80	6.27	54.07	74.00	-19.93	peak	100	316
4	4882.000	43.66	6.27	49.93	54.00	-4.07	AVG	100	316
5	9764.000	43.07	16.24	59.31	74.00	-14.69	peak	102	165
6	9764.000	33.04	16.24	49.28	54.00	-4.72	AVG	102	165

Remarks:

1. Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
2. #2441MHz: Fundamental frequency.
3. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Test Report No.: 2412050592 -RF-US-01

Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 78		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1#	2479.796	88.19	-0.21	87.98			peak	123	44
2#	2479.796	87.82	-0.21	87.61			AVG	123	44
3	2564.782	40.25	-0.03	40.22	74.00	-33.78	peak	123	44
4	2564.782	28.46	-0.03	28.43	54.00	-25.57	AVG	123	44
5	4960.000	45.18	6.16	51.34	74.00	-22.66	peak	103	256
6	4960.000	39.67	6.16	45.83	54.00	-8.17	AVG	103	256
7	9920.000	41.51	16.68	58.19	74.00	-15.81	peak	105	160
8	9920.000	31.28	16.68	47.96	54.00	-6.04	AVG	105	160

Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamplifier Factor)
Margin value = Emission level – Limit value
- #2480MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

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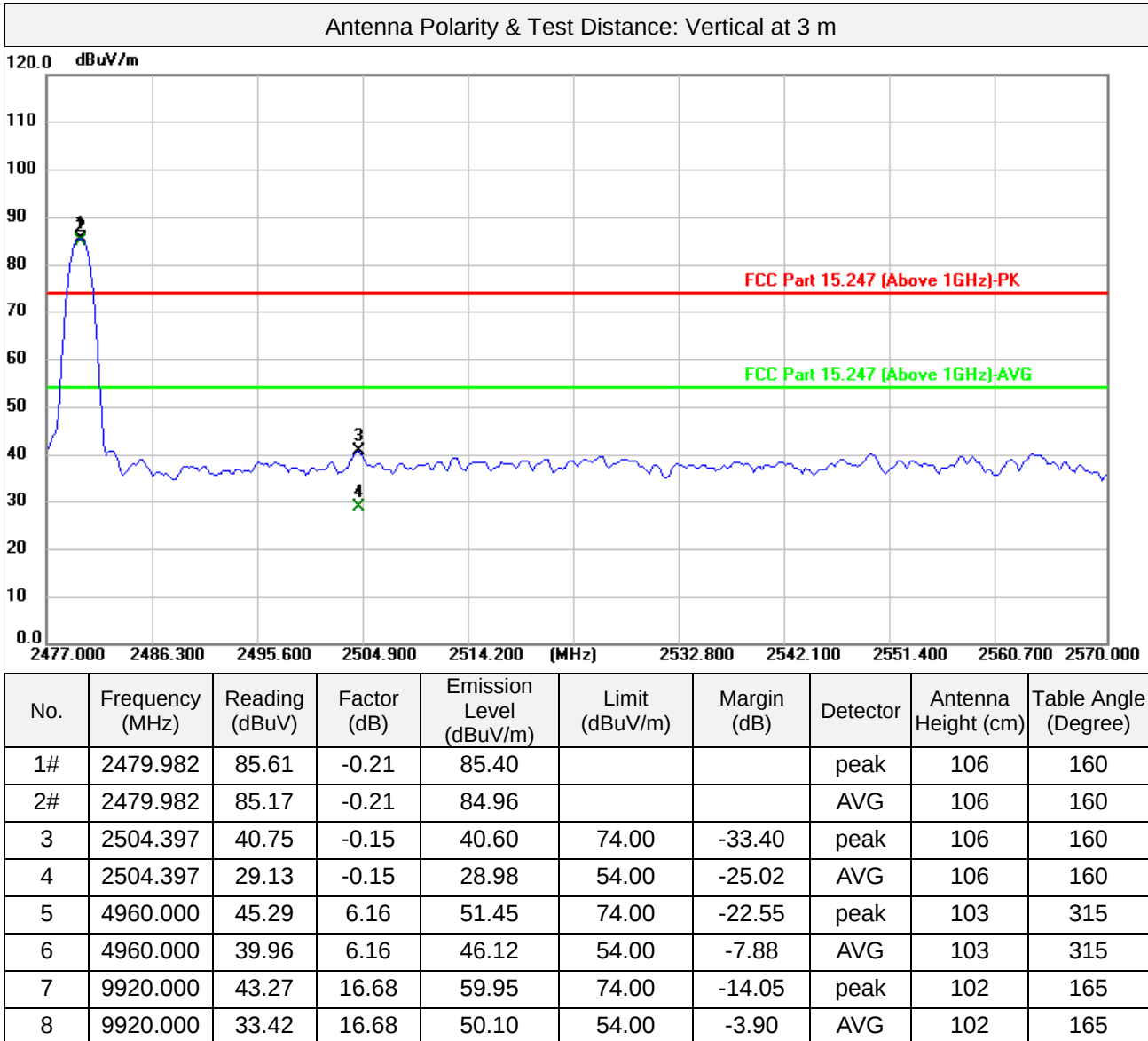
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Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 78		



Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
- #2480MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

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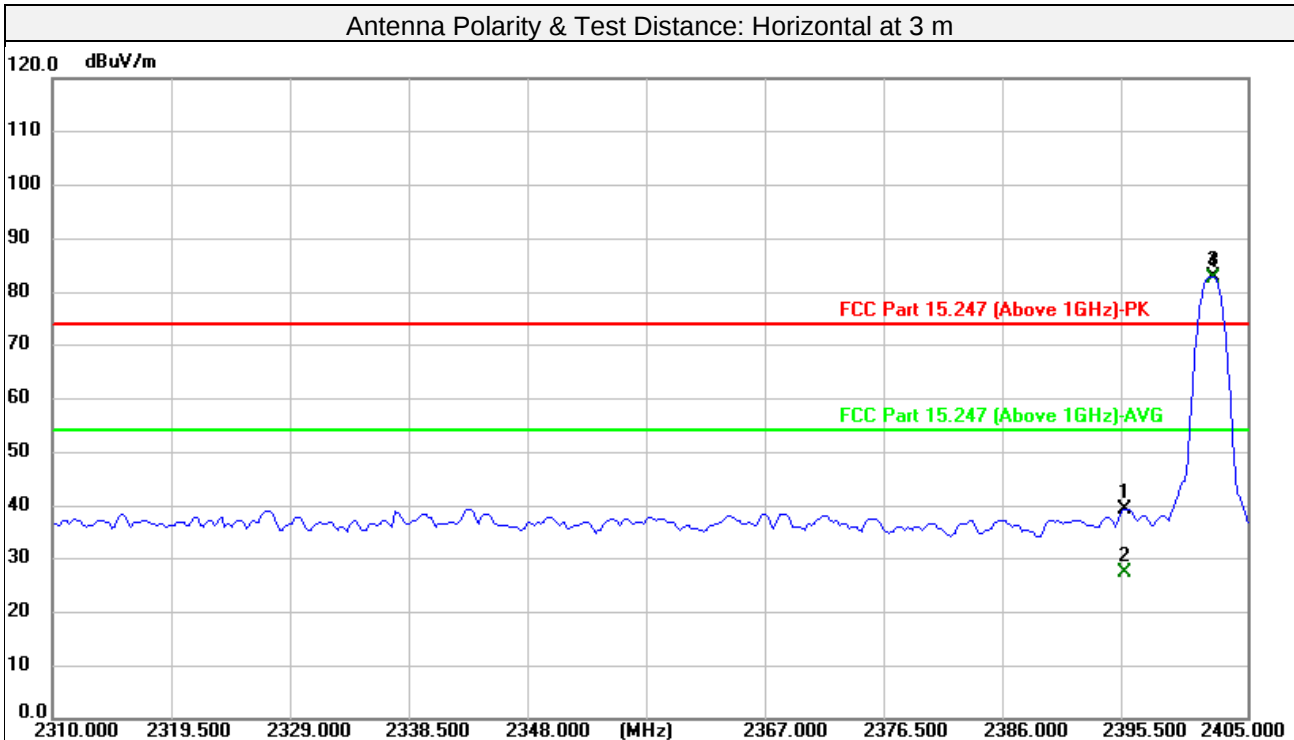
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8DPSK

Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 0		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1	2395.291	39.79	-0.40	39.39	74.00	-34.61	peak	104	160
2	2395.291	27.71	-0.40	27.31	54.00	-26.69	AVG	104	160
3#	2402.335	83.24	-0.39	82.85			peak	104	160
4#	2402.335	82.83	-0.39	82.44			AVG	104	160
5	4804.000	43.87	5.30	49.17	74.00	-24.83	peak	304	75
6	4804.000	39.82	5.30	45.12	54.00	-8.88	AVG	304	75
7	9608.000	40.91	15.83	56.74	74.00	-17.26	peak	163	85
8	9608.000	32.10	15.83	47.93	54.00	-6.07	AVG	163	85

Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamplifier Factor)
Margin value = Emission level – Limit value
- #2402MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

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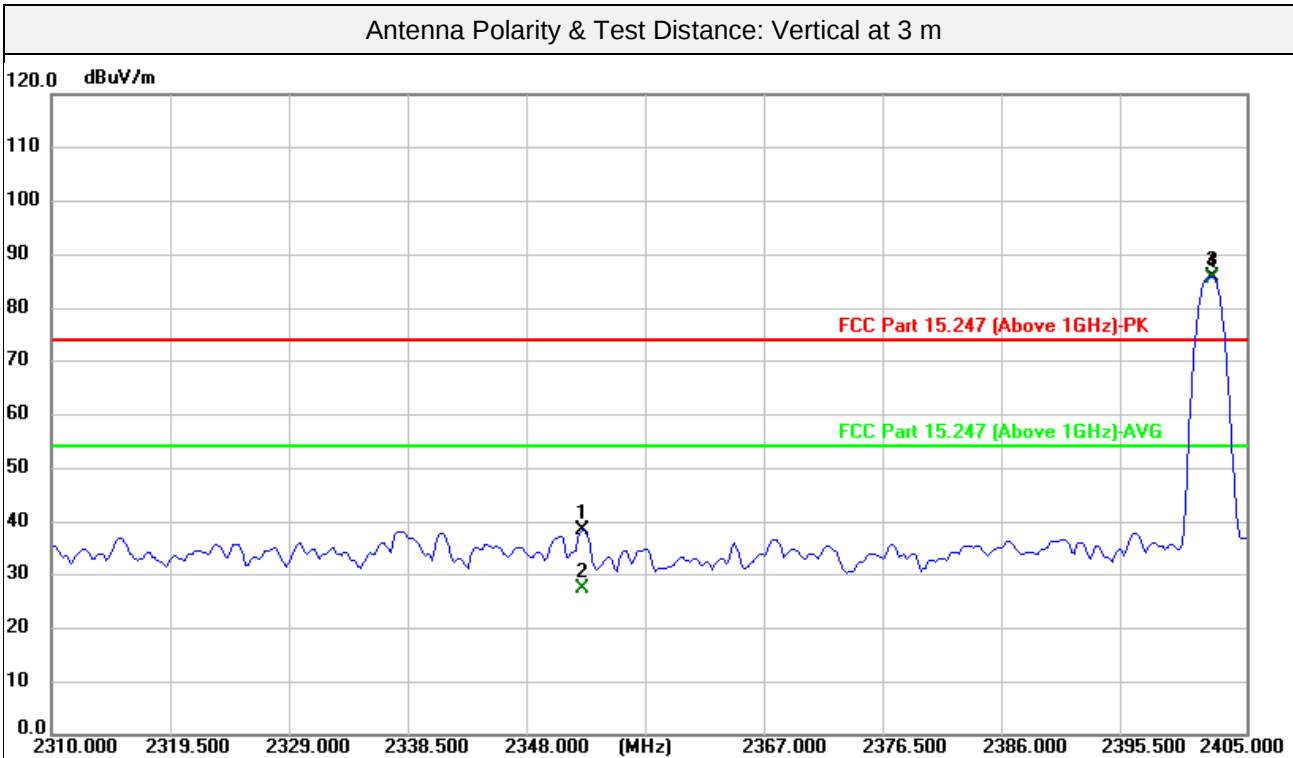
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Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 0		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1	2352.265	38.83	-0.50	38.33	74.00	-35.67	peak	117	234
2	2352.265	27.90	-0.50	27.40	54.00	-26.60	AVG	117	234
3#	2402.335	86.29	-0.39	85.90			peak	117	234
4#	2402.335	85.94	-0.39	85.55			AVG	117	234
5	4804.000	45.01	5.30	50.31	74.00	-23.69	peak	330	152
6	4804.000	41.45	5.30	46.75	54.00	-7.25	AVG	330	152
7	9608.000	41.21	15.83	57.04	74.00	-16.96	peak	248	163
8	9608.000	34.01	15.83	49.84	54.00	-4.16	AVG	248	163

Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamplifier Factor)
Margin value = Emission level – Limit value
- #2402MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

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Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 39		

Antenna Polarity & Test Distance: Horizontal at 3 m

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1#	2441.000	88.65	-0.30	88.35			peak	159	316
2#	2441.000	87.65	-0.30	87.35			AVG	159	316
3	4882.000	43.24	6.27	49.51	74.00	-24.49	peak	340	247
4	4882.000	37.34	6.27	43.61	54.00	-10.39	AVG	340	247
5	9764.000	41.12	16.24	57.36	74.00	-16.64	peak	241	156
6	9764.000	32.32	16.24	48.56	54.00	-5.44	AVG	241	156

Antenna Polarity & Test Distance: Vertical at 3 m

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1#	2441.000	90.07	-0.30	89.77			peak	112	289
2#	2441.000	88.39	-0.30	88.09			AVG	112	289
3	4882.000	45.55	6.27	51.82	74.00	-22.18	peak	238	231
4	4882.000	38.67	6.27	44.94	54.00	-9.06	AVG	238	231
5	9764.000	43.07	16.24	59.31	74.00	-14.69	peak	102	165
6	9764.000	35.46	16.24	51.70	54.00	-2.30	AVG	102	165

Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
- #2441MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

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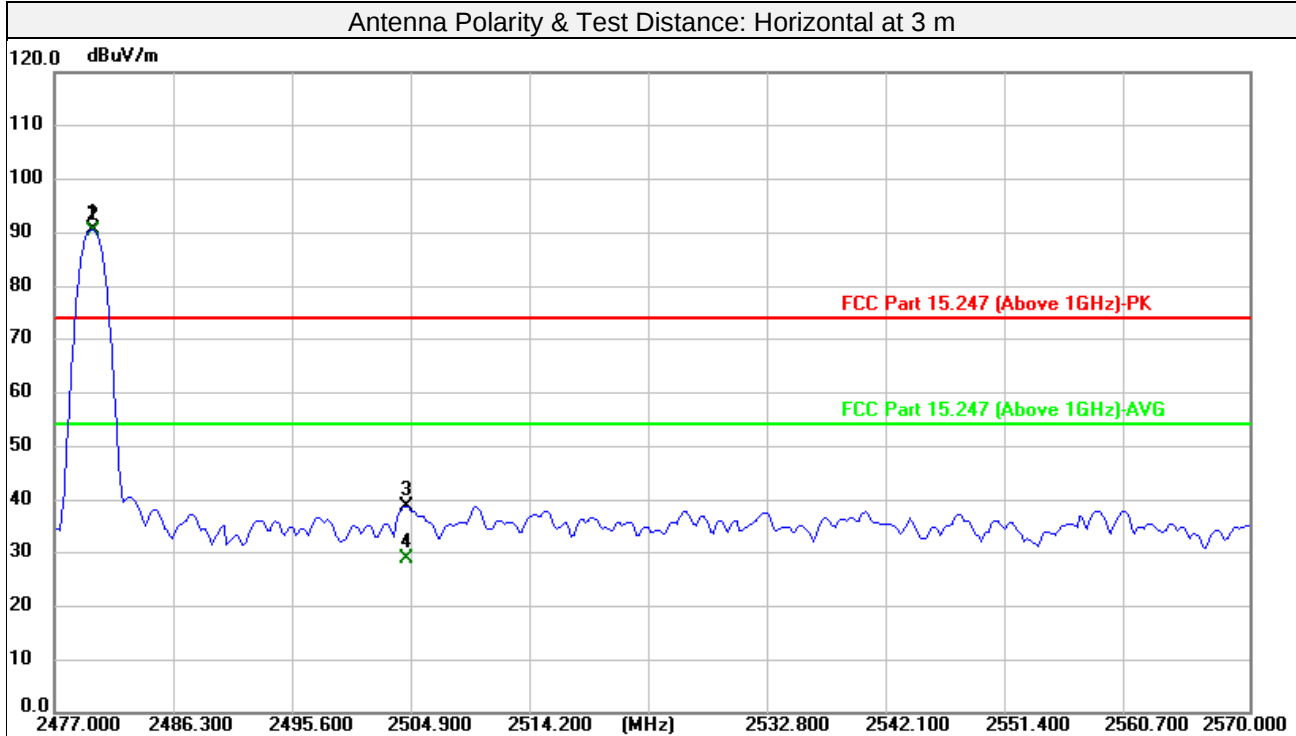
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Test Report No.: 2412050592 -RF-US-01

Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 78		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1#	2479.982	90.71	-0.21	90.50			peak	151	64
2#	2479.982	90.31	-0.21	90.10			AVG	151	64
3	2504.397	38.94	-0.15	38.79	74.00	-35.21	peak	151	64
4	2504.397	29.09	-0.15	28.94	54.00	-25.06	AVG	151	64
5	4960.000	43.10	6.16	49.26	74.00	-24.74	peak	145	354
6	4960.000	33.98	6.16	40.14	54.00	-13.86	AVG	145	354
7	9920.000	40.73	16.68	57.41	74.00	-16.59	peak	129	319
8	9920.000	32.38	16.68	49.06	54.00	-4.94	AVG	129	319

Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
- #2480MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

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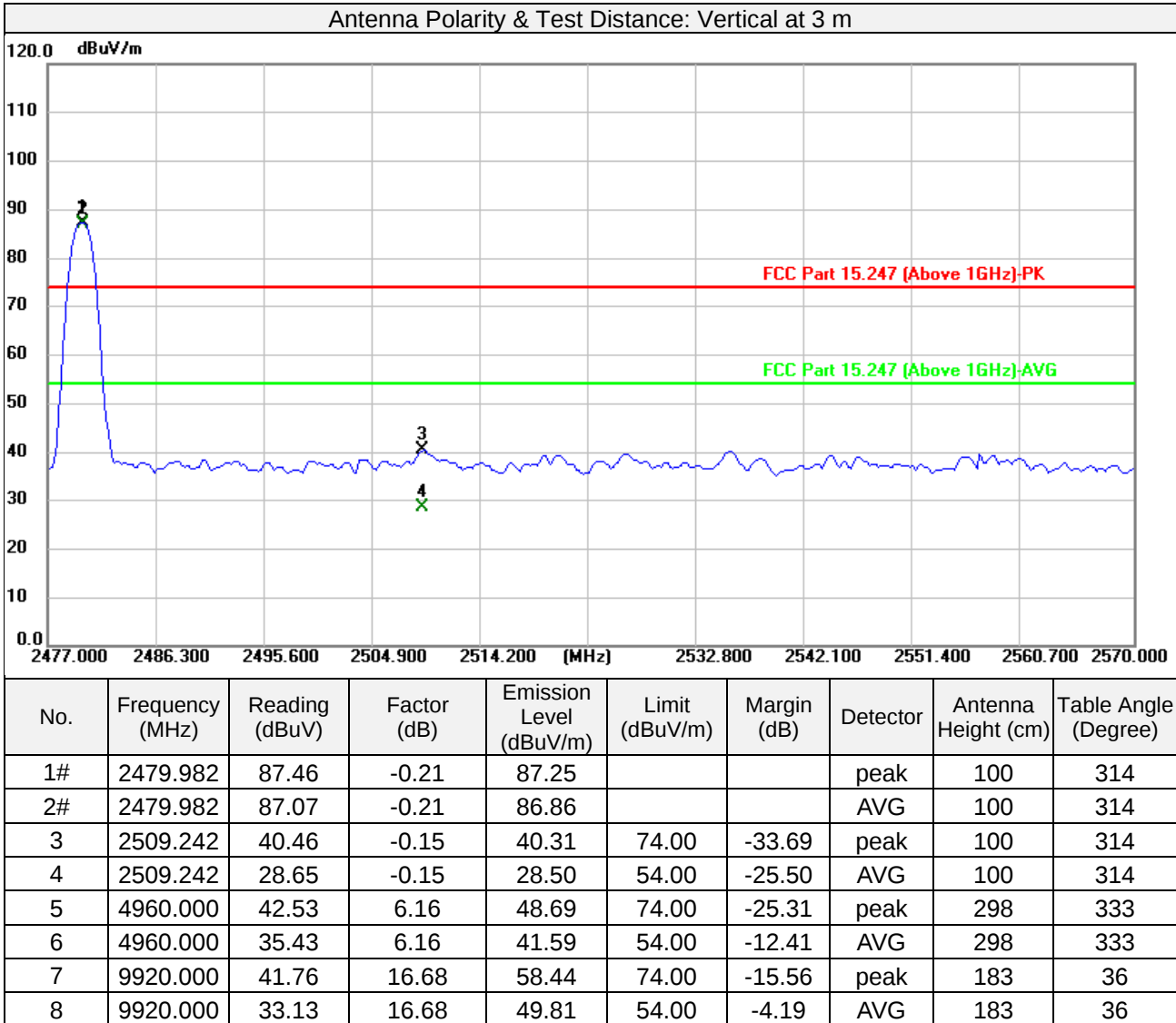
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Test Report No.: 2412050592 -RF-US-01

Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 78		



Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamplifier Factor)
Margin value = Emission level – Limit value
- #2480MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

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3.2 Conducted Emission Measurement**3.2.1 Limits of Conducted Emission Measurement**

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.2.2 Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR 7	100962	2025-07-25
Artificial Mains Network	Rohde&Schwarz	ENV216	3560.6550.15	2025-07-25
Test software	FARAD	EZ_EMV V1.1.4.2	N/A	N/A
Broadcast test system	R&S	SFU	100410	2025-07-25

Note: 1. The calibration interval of the above test instruments is 12 months.
2. The test was performed in Shielded Room.

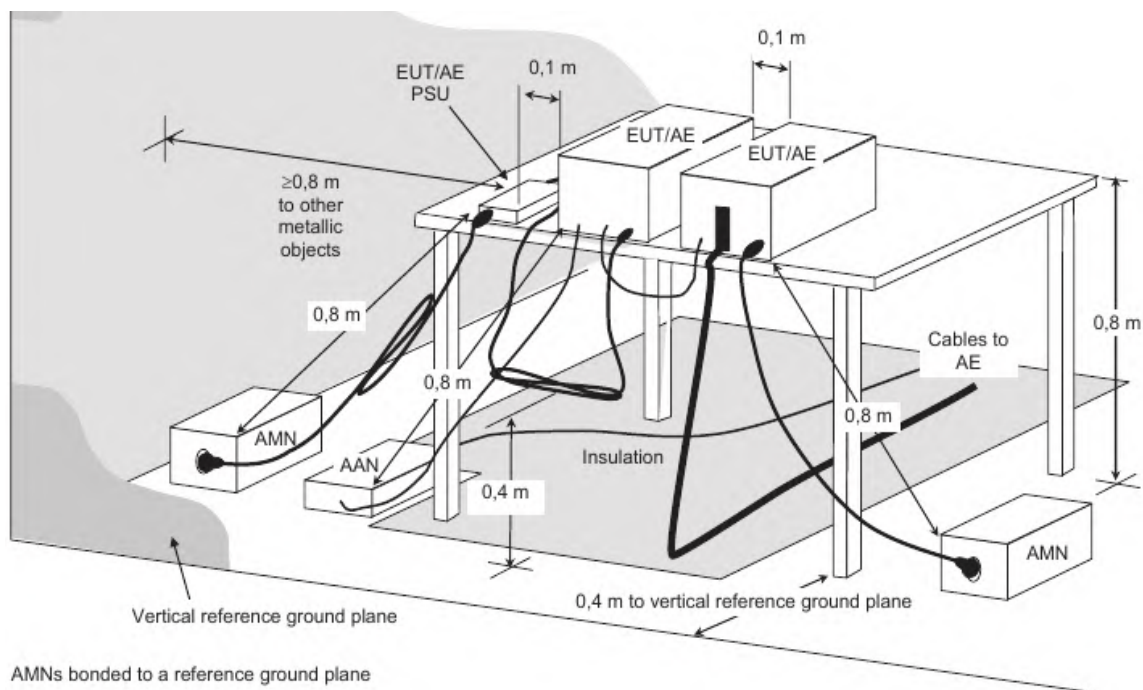
Test Report No.: 2412050592 -RF-US-01

3.2.3 Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit – 20dB) was not recorded.

Note: All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.5 EUT Operating Condition

Set the EUT under transmission condition continuously at specific channel frequency.

3.2.6 Deviation from Test Standard

No deviation.

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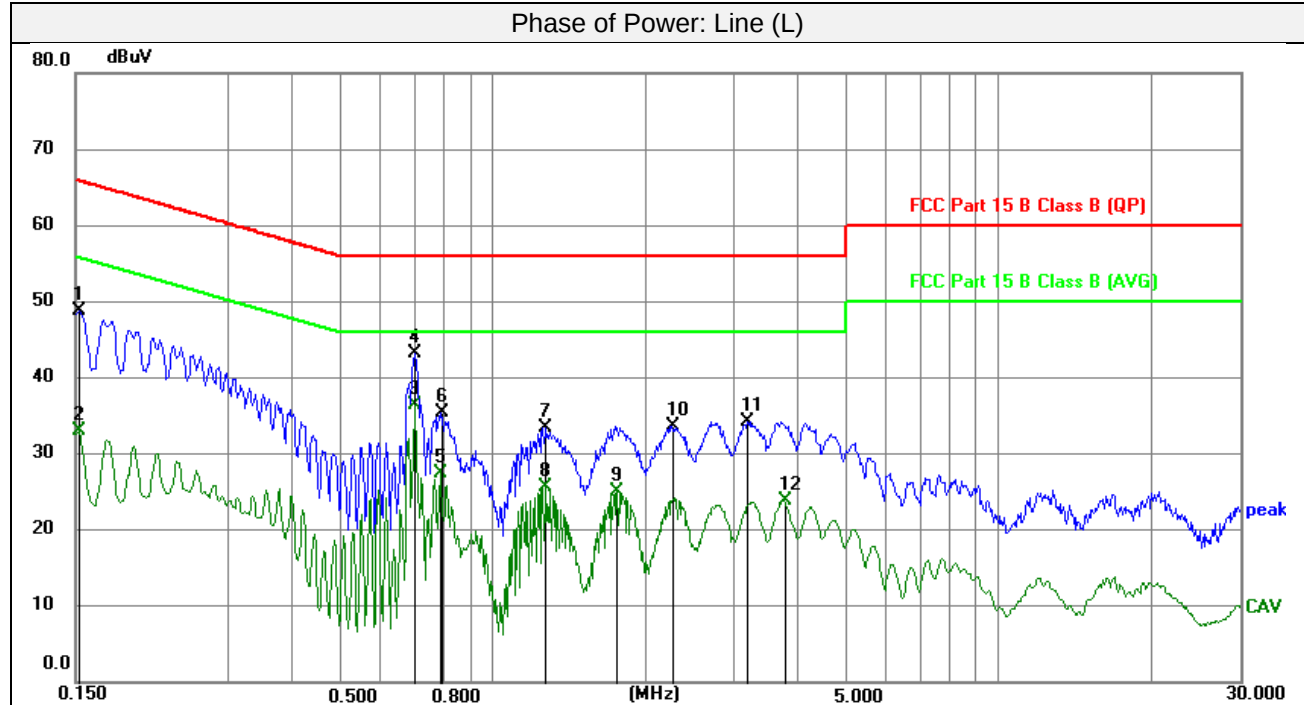
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CONCLUSIONS

3.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
-----------------	----------------	--	--------------------------------------



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor dB	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Remark Detector
1	0.1522	38.51	10.18	48.69	65.88	-17.19	peak
2	0.1522	22.85	10.18	33.03	55.88	-22.85	AVG
3	0.7035	26.32	10.11	36.43	46.00	-9.57	AVG
4	0.7056	33.09	10.11	43.20	56.00	-12.80	peak
5	0.7912	17.25	10.09	27.34	46.00	-18.66	AVG
6	0.7935	25.32	10.09	35.41	56.00	-20.59	peak
7	1.2795	23.39	10.05	33.44	56.00	-22.56	peak
8	1.2795	15.65	10.05	25.70	46.00	-20.30	AVG
9	1.7655	15.02	10.08	25.10	46.00	-20.90	AVG
10	2.2718	23.59	10.09	33.68	56.00	-22.32	peak
11	3.1965	24.21	10.10	34.31	56.00	-21.69	peak
12	3.7703	13.70	10.10	23.80	46.00	-22.20	AVG

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

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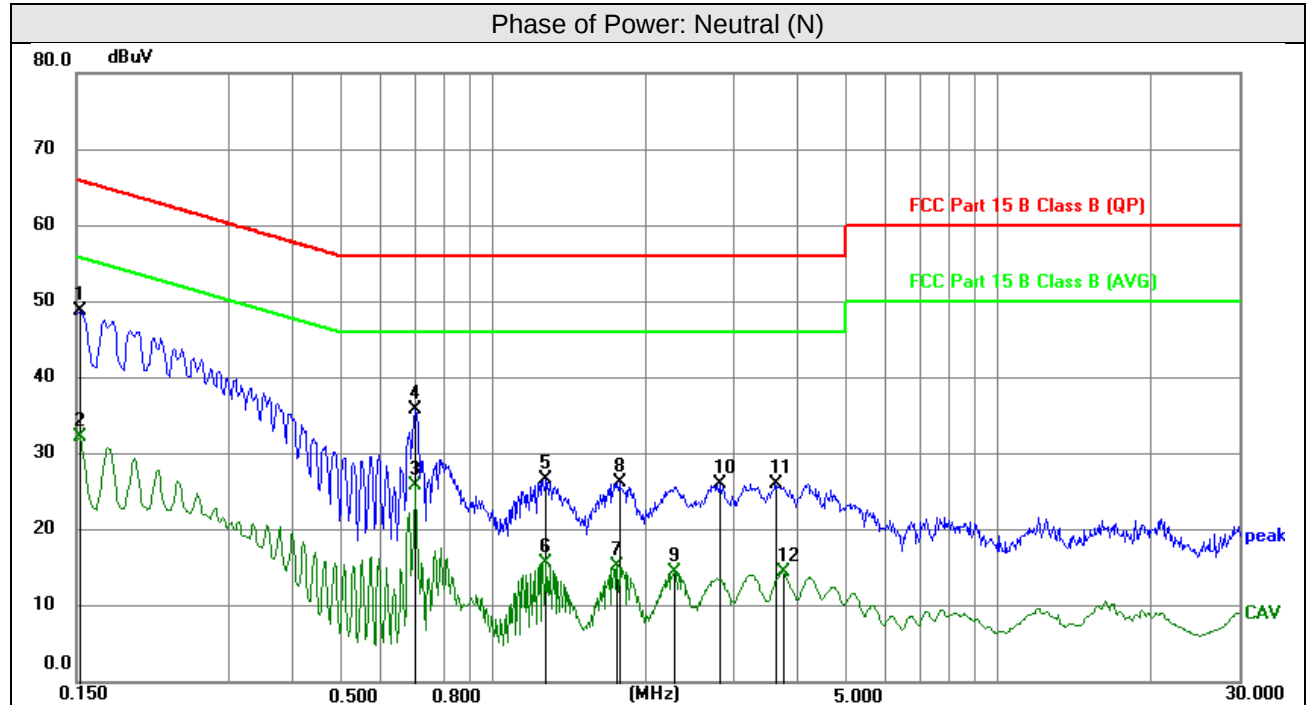
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Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
-----------------	----------------	--	--------------------------------------



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor dB	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Remark Detector
1	0.1522	38.53	10.18	48.71	65.88	-17.17	peak
2	0.1522	22.12	10.18	32.30	55.88	-23.58	AVG
3	0.7035	15.69	10.10	25.79	46.00	-20.21	AVG
4	0.7056	25.78	10.10	35.88	56.00	-20.12	peak
5	1.2795	16.57	10.06	26.63	56.00	-29.37	peak
6	1.2795	5.70	10.06	15.76	46.00	-30.24	AVG
7	1.7655	5.15	10.09	15.24	46.00	-30.76	AVG
8	1.7880	16.21	10.09	26.30	56.00	-29.70	peak
9	2.2965	4.28	10.10	14.38	46.00	-31.62	AVG
10	2.8230	15.89	10.09	25.98	56.00	-30.02	peak
11	3.6398	15.96	10.10	26.06	56.00	-29.94	peak
12	3.7478	4.28	10.10	14.38	46.00	-31.62	AVG

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

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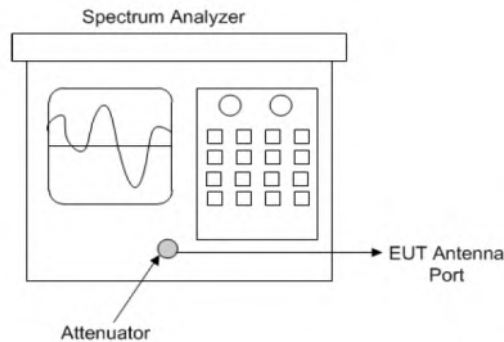
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3.3 Number of Hopping Frequency Used

3.3.1 Limits of Hopping Frequency Used Measurement

At least 15 channels frequencies, and should be equally spaced.

3.3.2 Test Setup



Spectrum analyzer test configuration

3.3.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.3.4 Test Procedure

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Set the SA on Max Hold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- Set the SA on View mode and then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

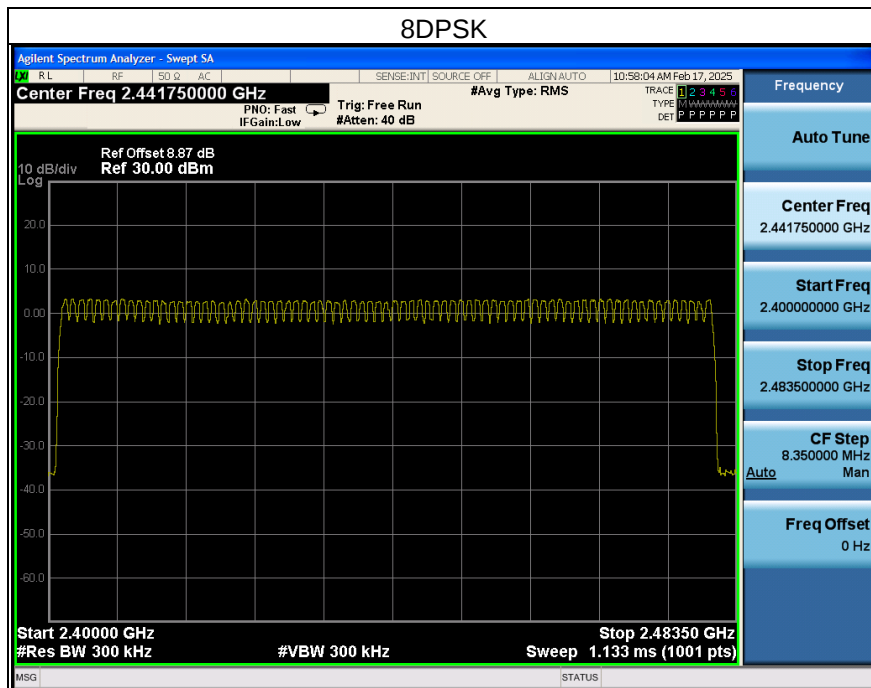
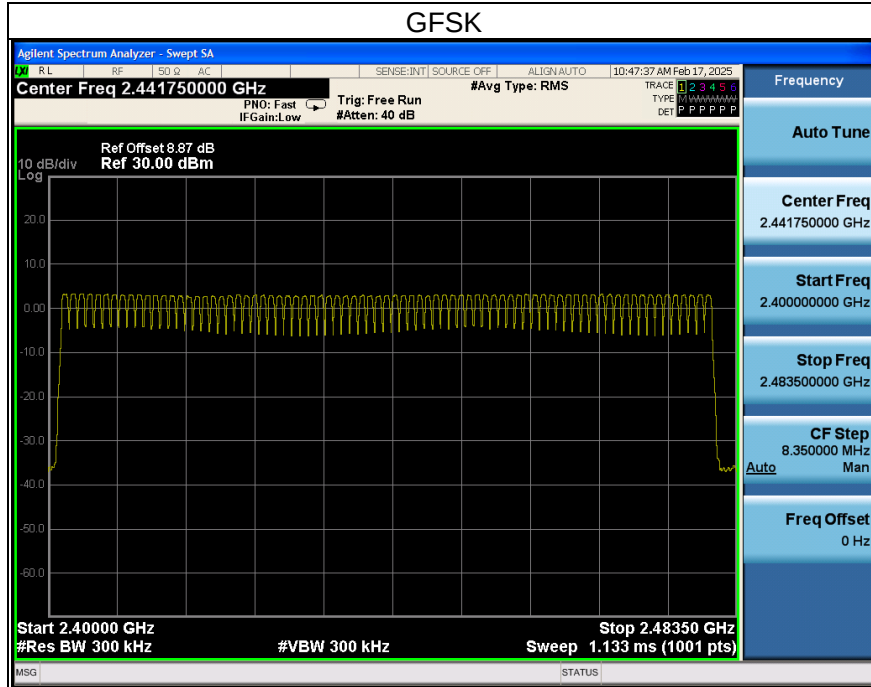
3.3.5 Deviation from Test Standard

No deviation.

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3.3.6 Test Results

There are 79 hopping frequencies in the hopping mode. Please refer to next page for the test result. On the plots, it shows that the hopping frequencies are equally spaced.

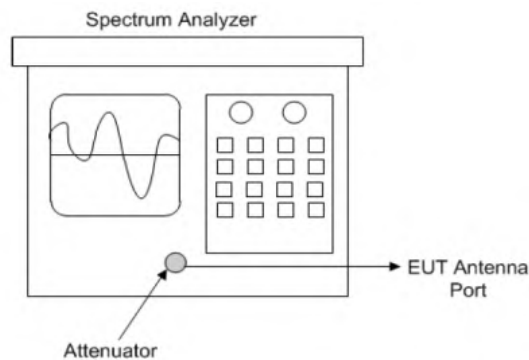


3.4 Dwell Time on Each Channel

3.4.1 Limits of Dwell Time on Each Channel Measurement

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.

3.4.2 Test Setup



Spectrum analyzer test configuration

3.4.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.4.4 Test Procedures

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- Repeat above procedures until all different time-slot modes have been completed.

3.4.5 Deviation from Test Standard

No deviation.

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3.4.6 Test Results

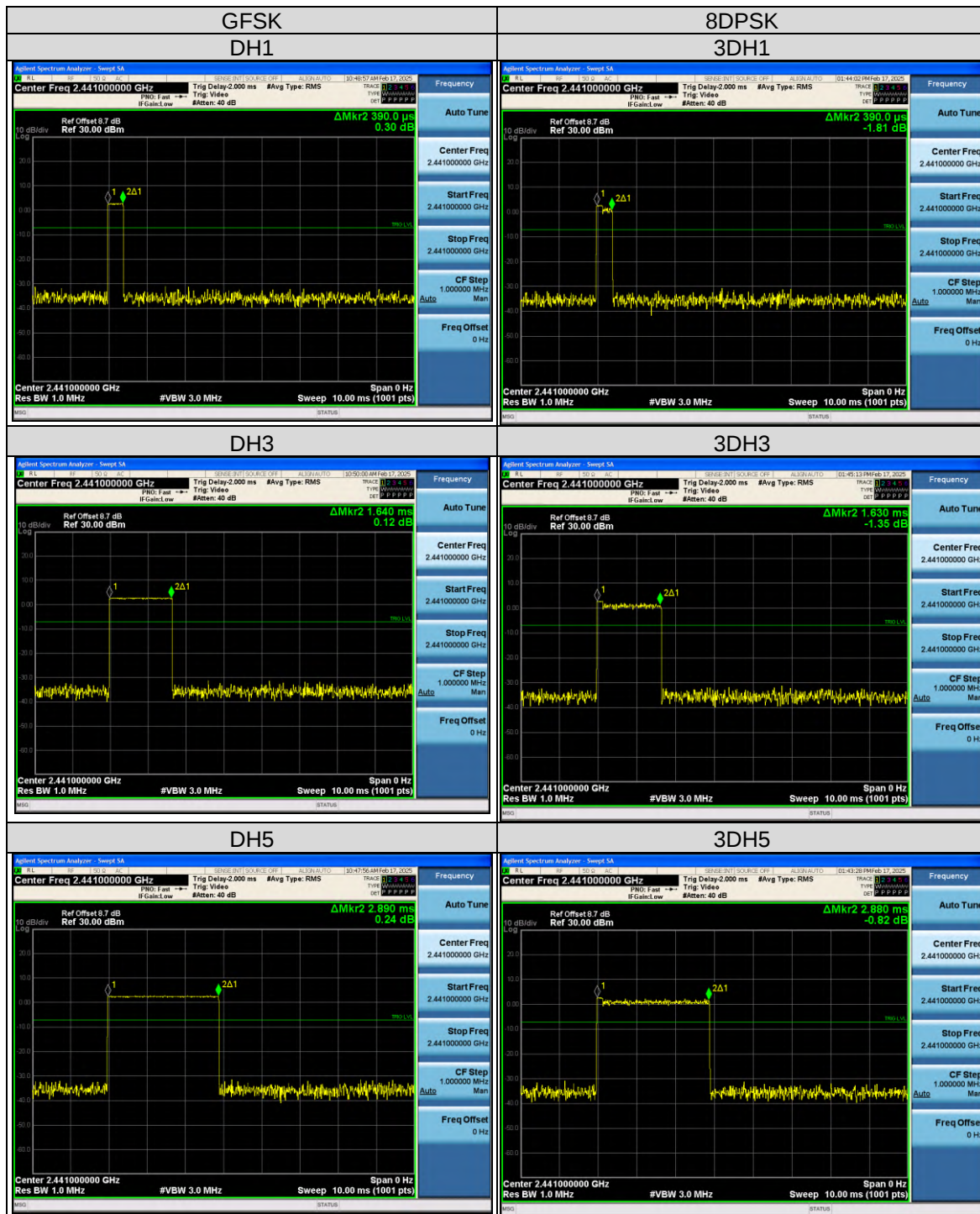
GFSK

Test Mode	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Hop	0.39	320	0.125	≤0.4	PASS
DH3	Hop	1.64	160	0.262	≤0.4	PASS
DH5	Hop	2.89	106.67	0.308	≤0.4	PASS

8DPSK

Test Mode	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
3DH1	Hop	0.39	320	0.125	≤0.4	PASS
3DH3	Hop	1.63	160	0.261	≤0.4	PASS
3DH5	Hop	2.88	106.67	0.307	≤0.4	PASS

Note: Test plots of the transmitting time slot are shown as below.

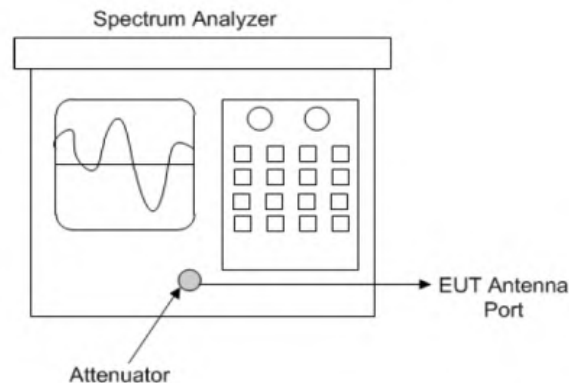


3.5 Channel Bandwidth

3.5.1 Limits of Channel Bandwidth Measurement

For frequency hopping system operating in the 2400-2483.5 MHz, if the 20 dB bandwidth of hopping channel is greater than 25 kHz, two-thirds 20 dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

3.5.2 Test Setup



Spectrum analyzer test configuration

3.5.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.5.4 Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

3.5.5 Deviation from Test Standard

No deviation.

3.5.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

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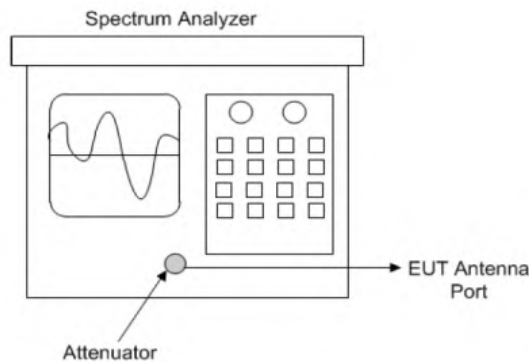
3.5.7 Test Results

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	
		GFSK	8DPSK
0	2402	0.957	1.200
39	2441	0.942	1.200
78	2480	0.939	1.200



3.6 Occupied Bandwidth Measurement

3.6.1 Test Setup



Spectrum analyzer test configuration

3.6.2 Test Instruments

Refer to section 5 to get information of above instrument.

3.6.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

3.6.4 Deviation from Test Standard

No deviation.

3.6.5 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.6.6 Test Results

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		GFSK	8DPSK
0	2402	0.84677	1.1280
39	2441	0.84169	1.1388
78	2480	0.84505	1.1492



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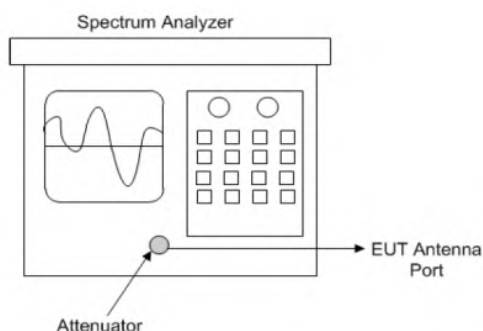
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3.7 Hopping Channel Separation

3.7.1 Limits of Hopping Channel Separation Measurement

At least 25 kHz or two-third of 20 dB hopping channel bandwidth (whichever is greater).

3.7.2 Test Setup



3.7.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.7.4 Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- By using the MaxHold function record the separation of two adjacent channels.
- Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

3.7.5 Deviation from Test Standard

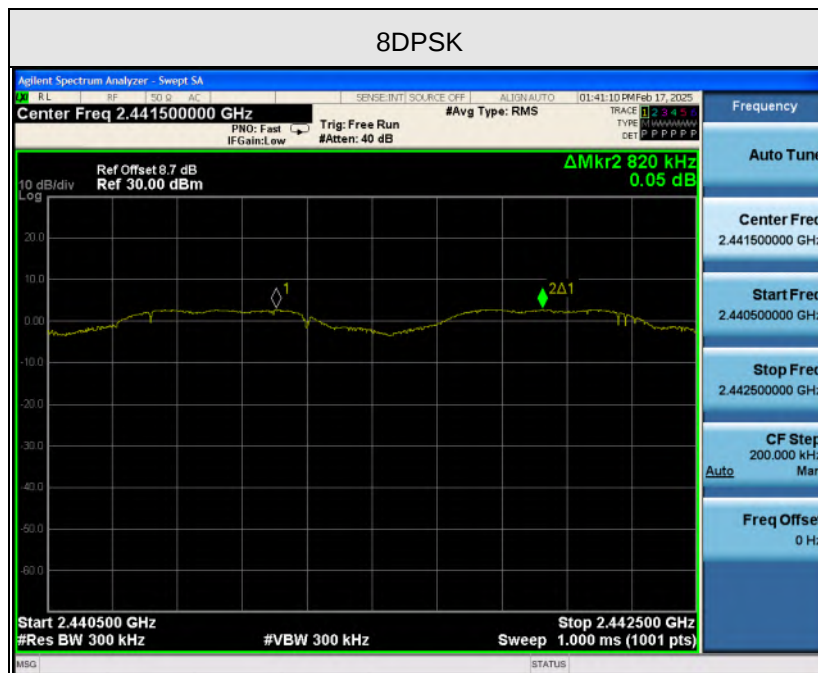
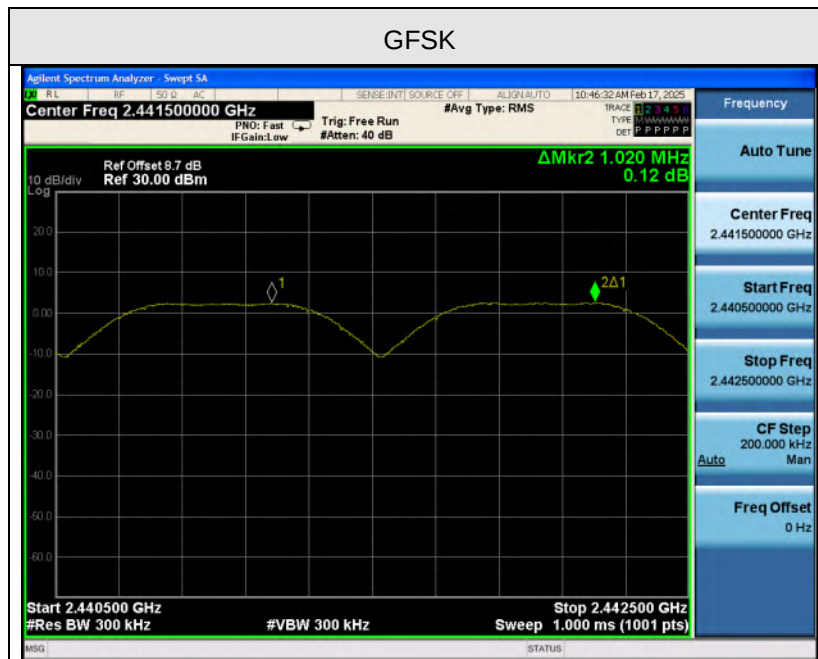
No deviation.

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3.7.6 Test Results

Channel No.	Frequency (MHz)	Adjacent Channel Separation (MHz)		Minimum Limit (MHz)		Pass / Fail
		GFSK	8DPSK	GFSK	8DPSK	
Hop	Hop	1.020	0.820	≥0.957	≥0.800	Pass

Note: The minimum limit is two-third 20 dB bandwidth.



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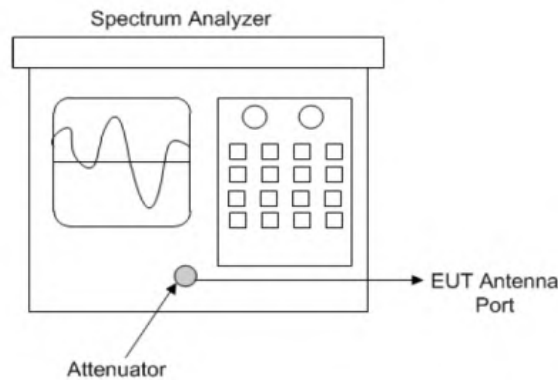
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3.8 Maximum Output Power

3.8.1 Limits of Maximum Output Power Measurement

The Maximum Output Power Measurement is 125mW.

3.8.2 Test Setup



Spectrum analyzer test configuration

3.8.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.8.4 Test Procedure

Measurement using a spectrum analyzer (SA), Selection of test method:

The proper test method is selected based on the following criteria:

- a) **Method AVGSA-1 or method AVGSA-1A (alternative)** shall be applied if either of the following conditions can be satisfied:
 - 1) The EUT transmits continuously (or with a $D > 98\%$).
 - 2) Sweep triggering can be implemented in such a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the instrument configured as in method AVGSA-1) is equal to or shorter than the duration T of each transmission from the EUT, and if those transmissions exhibit full power throughout their durations.
- b) **Method AVGSA-2 or method AVGSA-2A (alternative)** shall be applied if the conditions of the preceding item a) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than $+2\%$.
- c) **Method AVGSA-3 or method AVGSA-3A (alternative)** shall be applied if the conditions of the preceding item a) and item b) cannot be achieved.

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☒ Measurement using a spectrum analyzer (SA), Selection of test method:☒ Maximum peak conducted output power

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

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

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☒ Maximum conducted (average) output power(Method AVGSA-2):

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c) SA Setting:
 - 1)* Set span to at least 1.5 times the OBW
 - 2)* Set sweep trigger to "free run."
 - 3)* Set RBW= 1% to 5% of the OBW. not to exceed 1MHz.
 - 4)* Set VBW $\geq 3 \times$ RBW
 - 5)* Number of points in sweep $\geq 2 \times$ span /RBW. (This gives bin-to-bin spacing $\leq$ RBW / 2. so that narrowband signals are not lost between frequency bins).
 - 6)* Sweep time $\leq$ (number of points in sweep) $\times$ T. where T is defined in 11.6. If this gives a sweep time less than the auto sweep time of the instrument. then method AVGSA-3 shall not be used (use AVGSA-3A). The purpose of this step is so that the averaging time in each bin is less than or equal to the minimum time of a transmission.
 - 7)* Detector =RMS (power averaging).
 - 8)* Trace mode =Max hold.
 - 9)* Allow max hold to run for at least 60 s or longer as needed to allow the trace to stabilize.
 - 10)* Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function. then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

3.8.5 Deviation from Test Standard

No deviation.

3.8.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

3.8.7 Test Results

Right headphone:**Peak power**

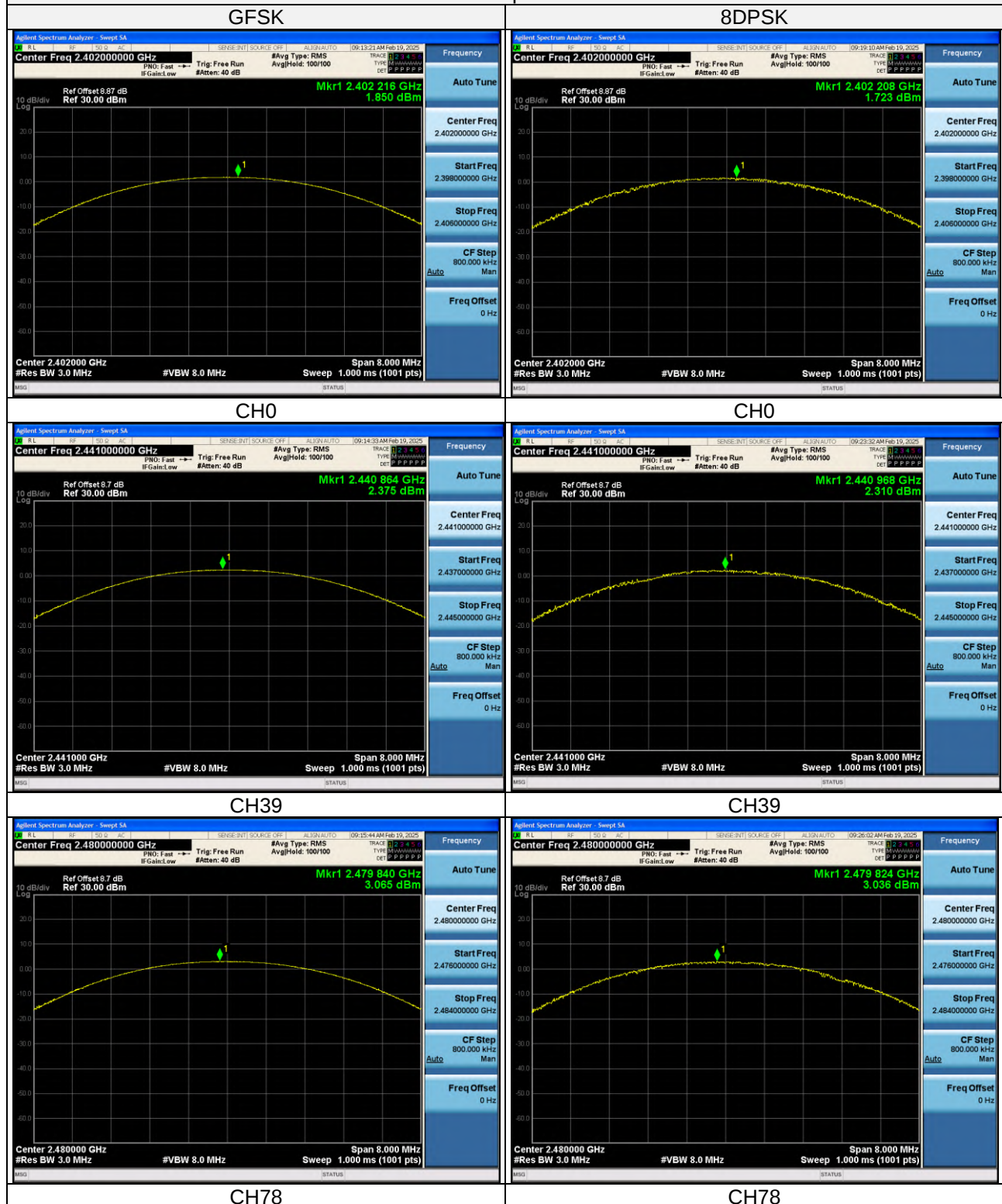
Channel No.	Freq. (MHz)	Output Power (dBm)		Output Power (mW)		Power Limit (mW)	Pass / Fail
		GFSK	8DPSK	GFSK	8DPSK		
0	2402	1.850	1.723	1.531	1.487	125	Pass
39	2441	2.375	2.310	1.728	1.702	125	Pass
78	2480	3.065	3.036	2.025	2.012	125	Pass

Left headphone:**Peak power**

Channel No.	Freq. (MHz)	Output Power (dBm)		Output Power (mW)		Power Limit (mW)	Pass / Fail
		GFSK	8DPSK	GFSK	8DPSK		
0	2402	3.678	3.402	2.332	2.189	125	Pass
39	2441	2.913	2.767	1.956	1.891	125	Pass
78	2480	3.003	3.004	1.997	1.997	125	Pass

Right headphone:

Peak Power Spectrum Plot



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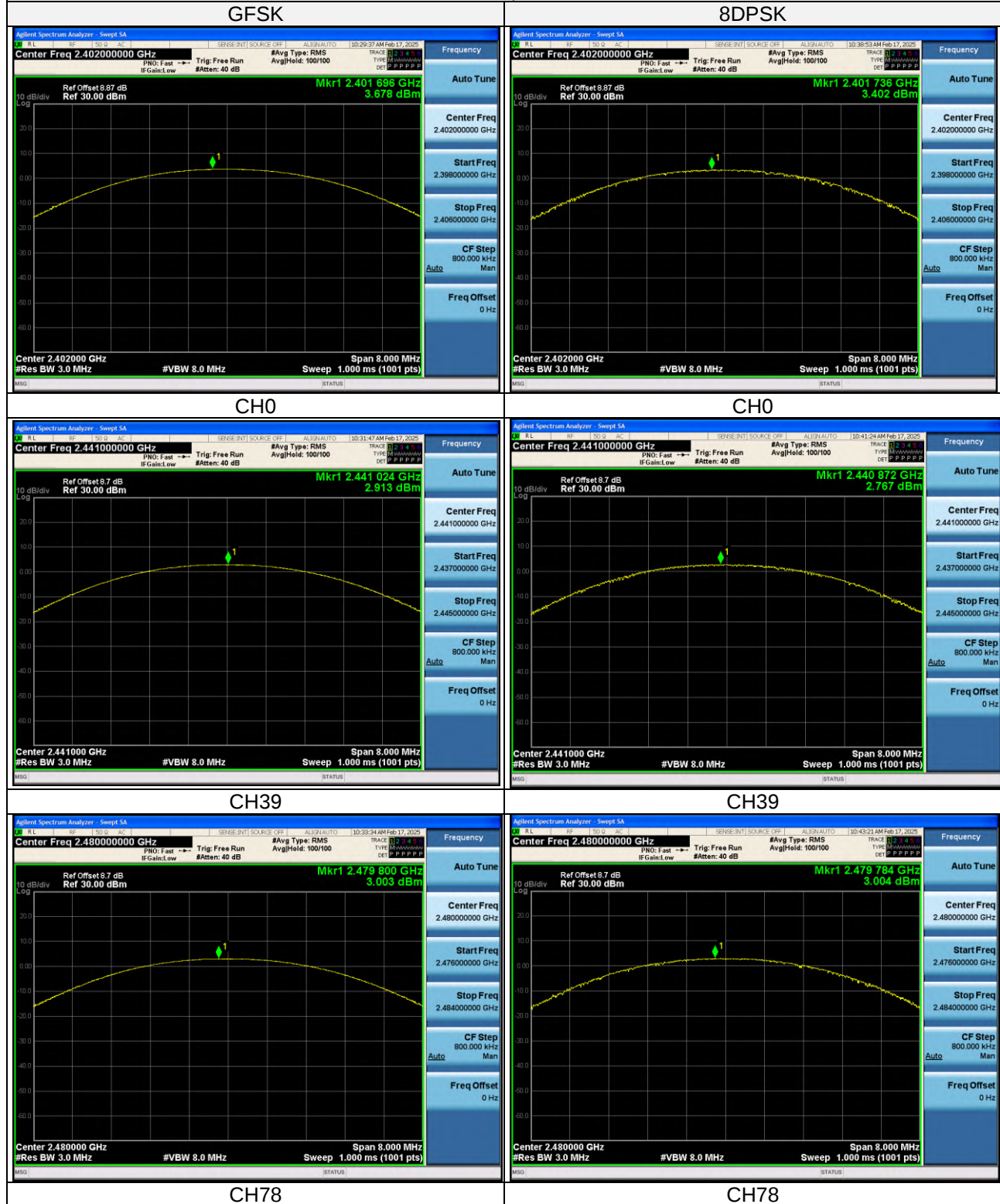
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Left headphone:

Peak Power Spectrum Plot



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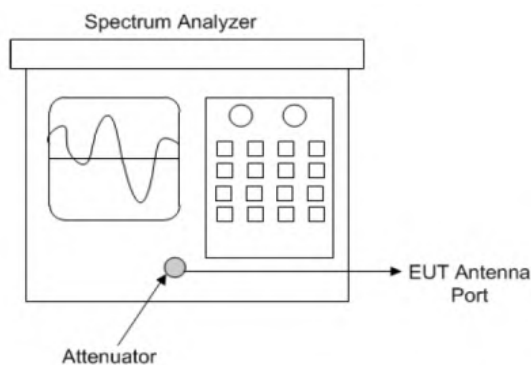
3.9 Conducted Out of Band Emission Measurement

3.9.1 Limits of Conducted Out of Band Emission Measurement

- a. **If the maximum peak conducted output power procedure was used to determine compliance as described in 11.9.1**, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b. **If maximum conducted (average) output power was used to determine compliance as described in 11.9.2**, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc)

3.9.2 Test Setup

- DTS emissions in non-restricted frequency bands Subclause 11.11 of ANSI C63.10 is applicable.
- DTS emissions in restricted frequency bands Subclause 11.12 of ANSI C63.10 is applicable.



Spectrum analyzer test configuration

3.9.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.9.4 Test Procedure

a. Establish a reference level by using the following procedure:

- 1) Set instrument center frequency to DTS channel center frequency.
- 2) Set the span to 21.5 times the DTS bandwidth)
- 3) Set the RBW= 100 kHz)
- 4) Set the VBW $\geq 3 \times$ RBW
- 5) Detector = peak
- 6) Sweep time = auto coupling
- 7) Trace mode =max hold
- 8) Allow trace to fully stabilize
- 9) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

b. Establish an emission level by using the following procedure:

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz
- 3) Set the VBW ≥ 300 kHz.
- 4) Detector = peak.
- 5) Sweep time = auto couple.
- 6) Trace mode = max hold.
- 7) Allow trace to fully stabilize.
- 8) Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

3.9.5 Deviation from Test Standard

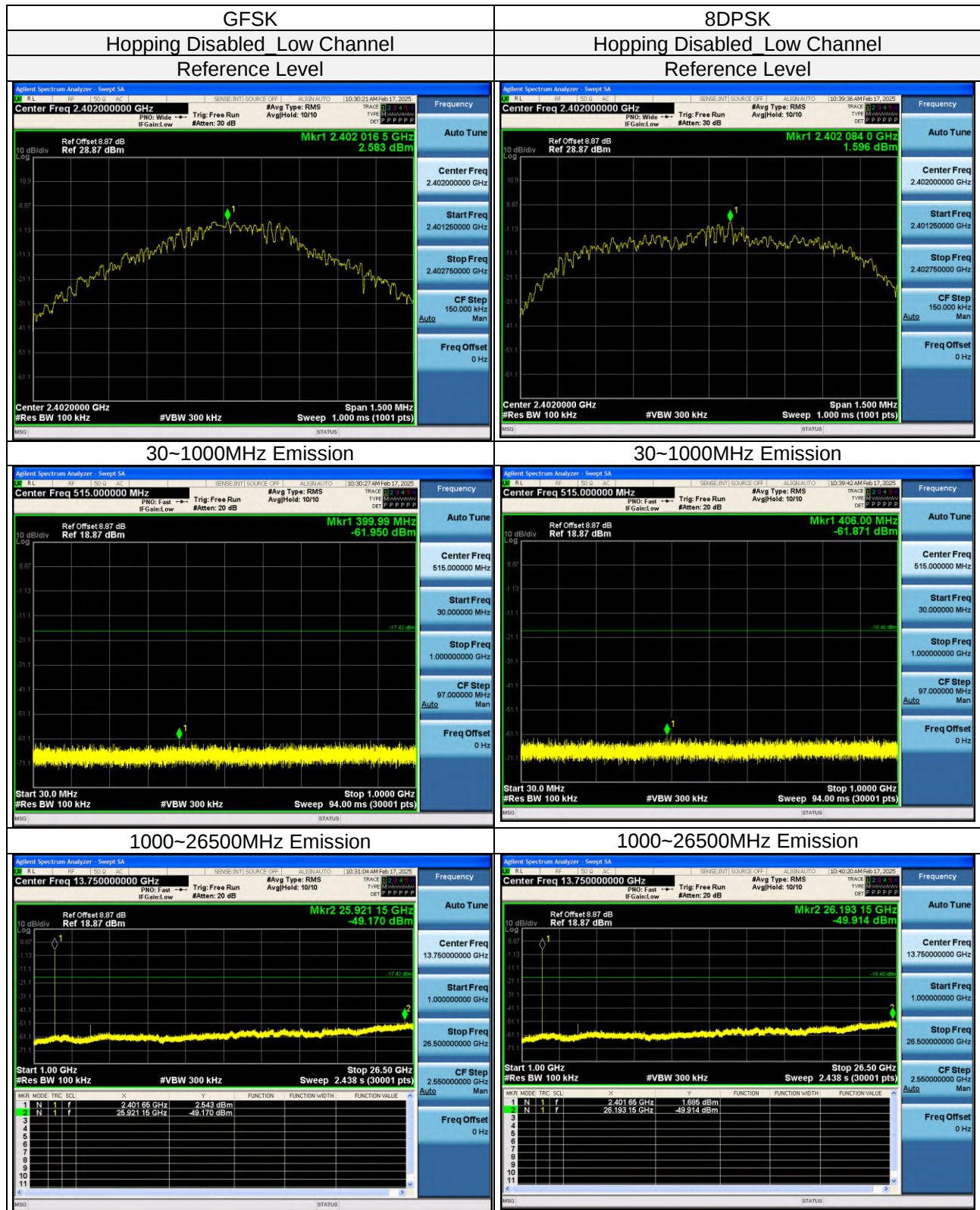
No deviation.

3.9.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

3.9.7 Test Results

The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



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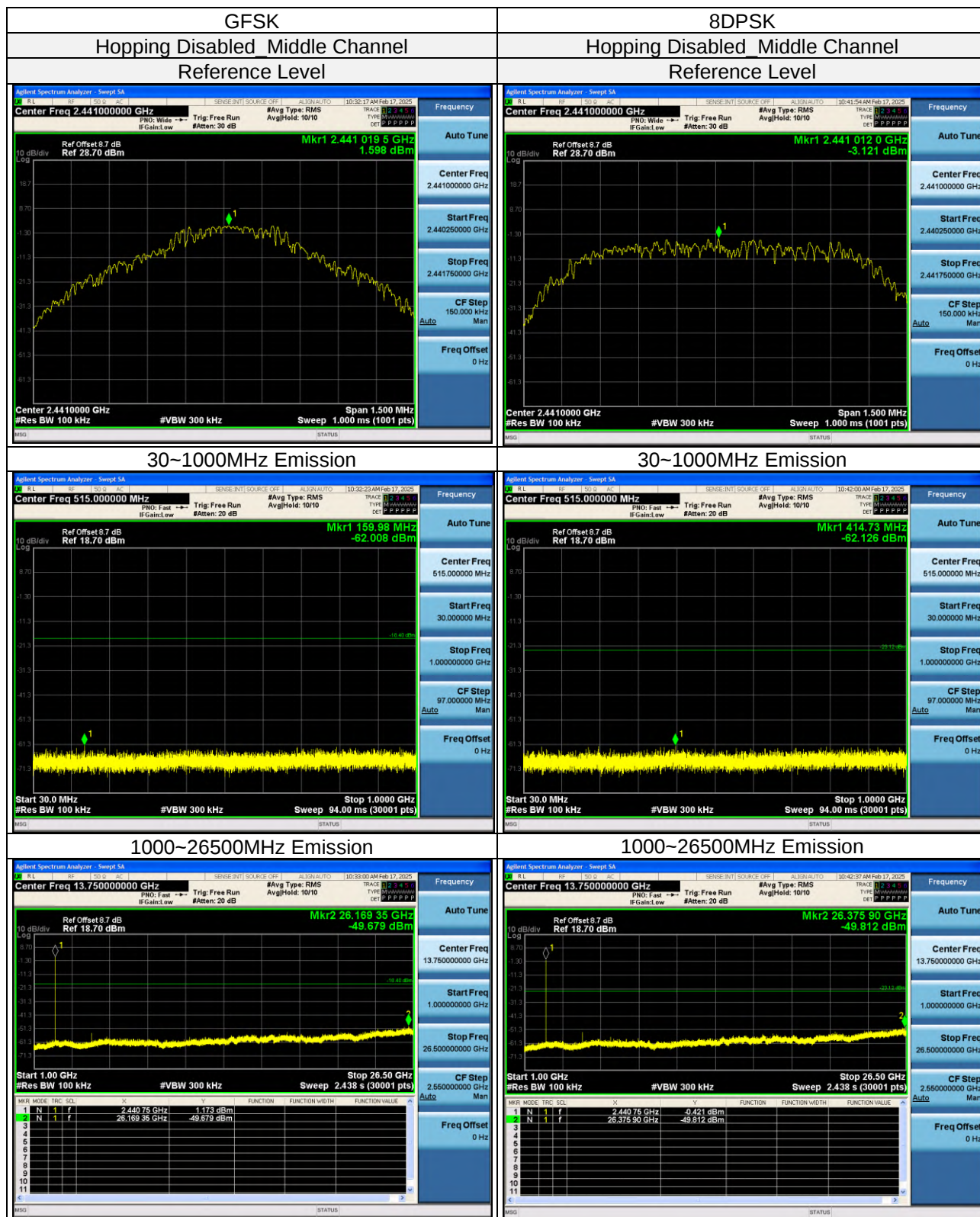
Tel: [0769-85598986](tel:0769-85598986)

Web.: www.lyns-tci.com

E-Mail: service-hs@lyns-tci.com

Release

Ver. 1.5



Lab: [Hwa-Hsing \(Dongguan\) Testing Co., Ltd.](#)

Address: [No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park, Huangjiang Town, Dongguan City, People's Republic of China](#)

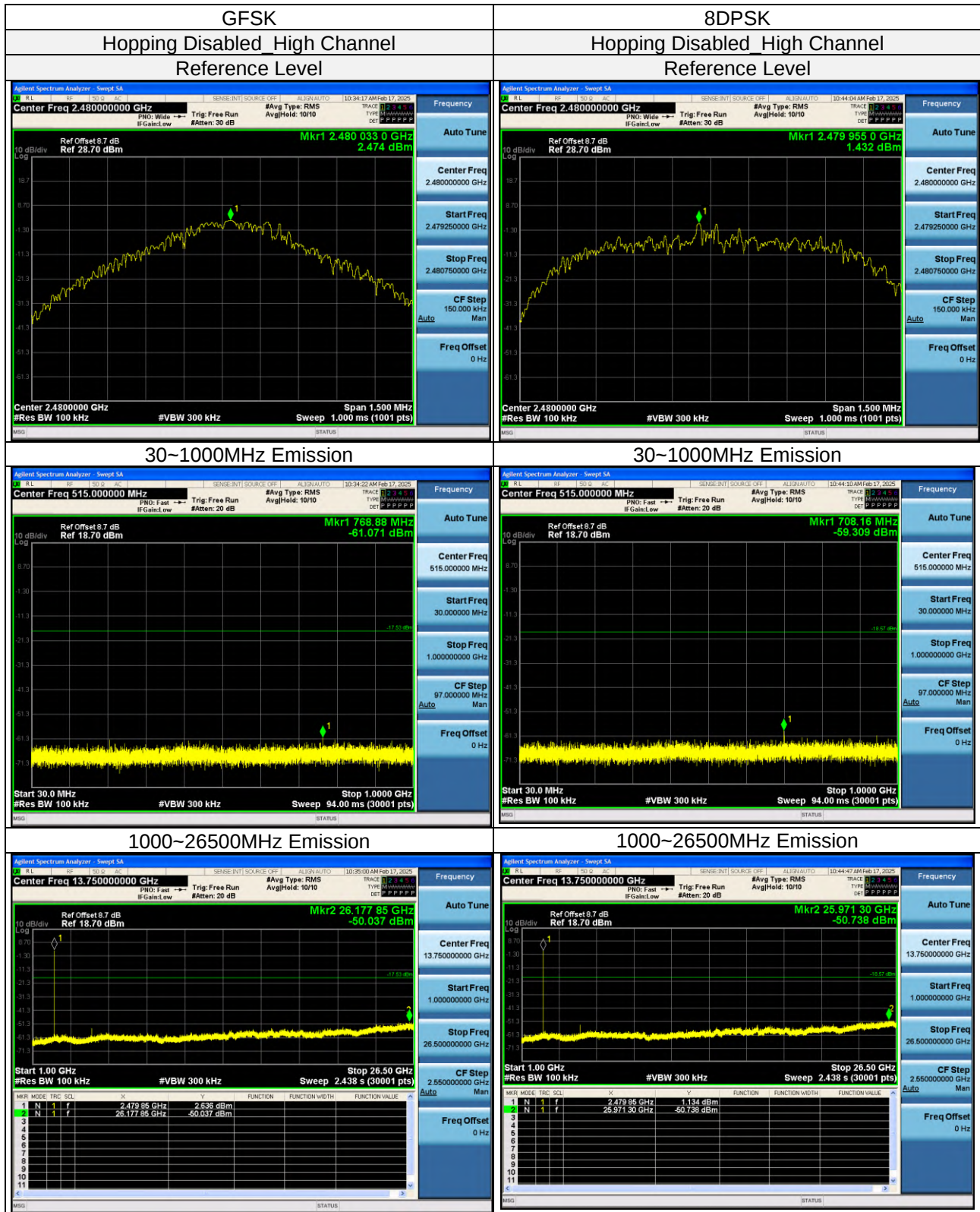
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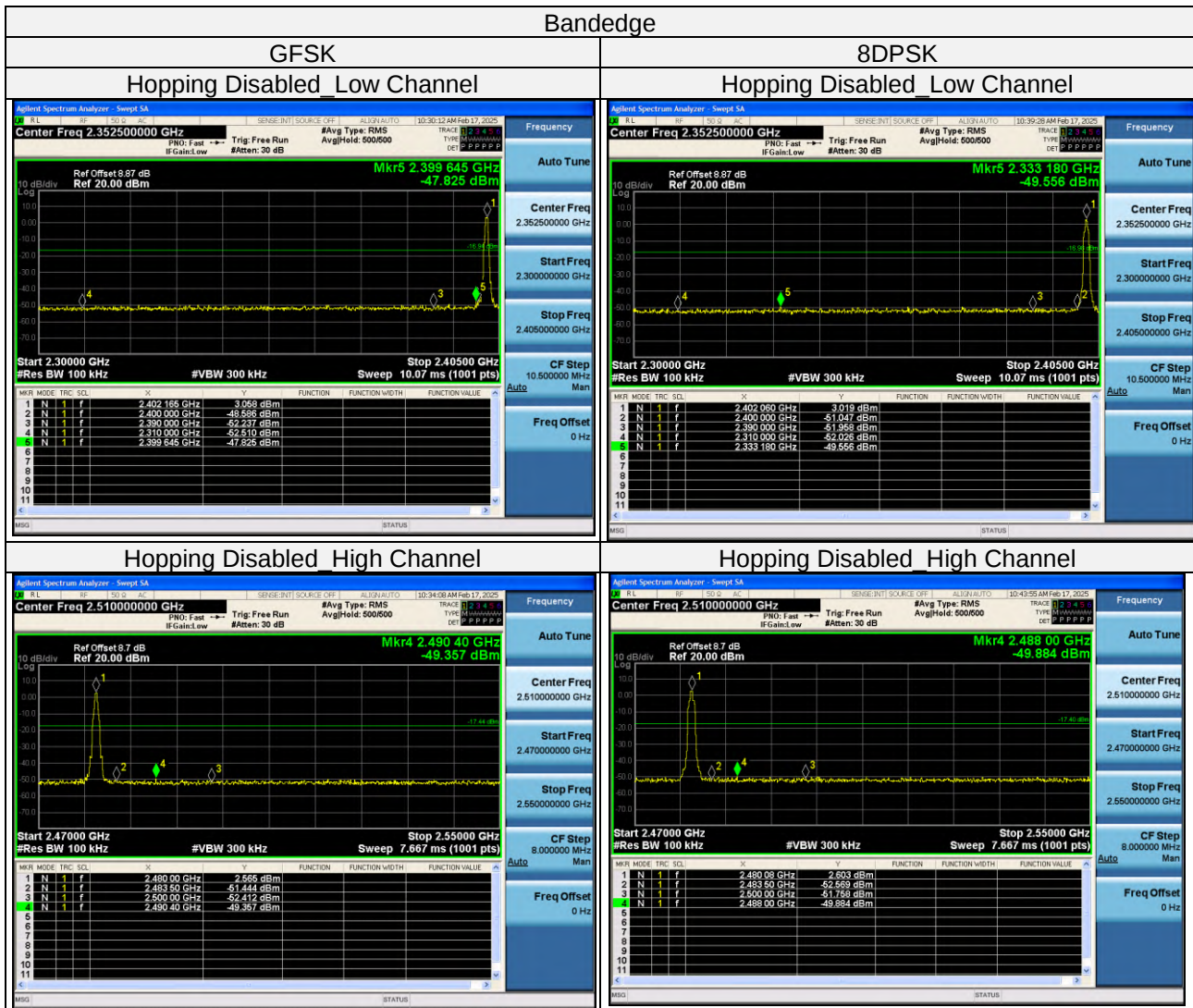
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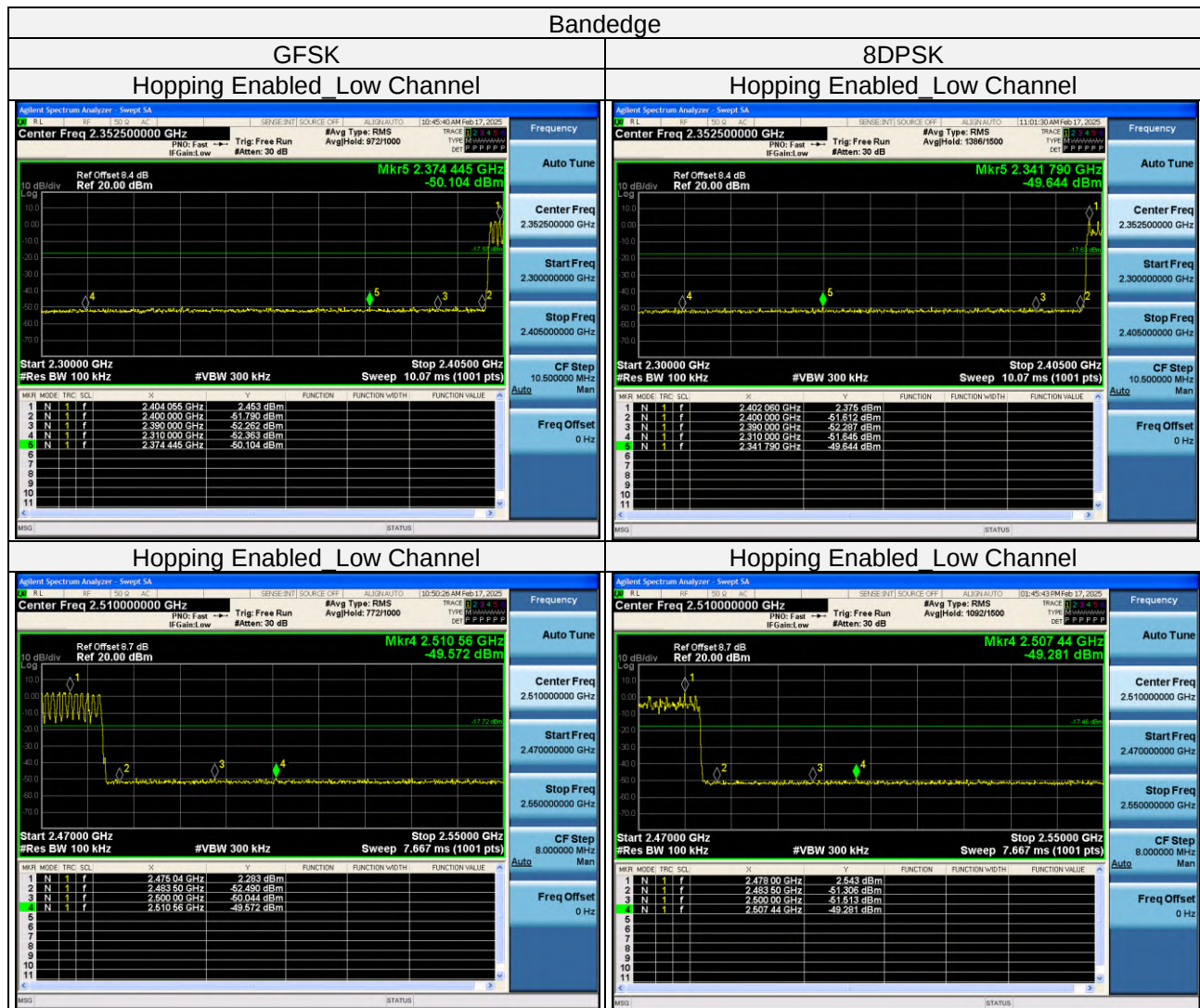
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Test Report No.: 2412050592 -RF-US-01

4 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Test Report No.: 2412050592 -RF-US-01

5 Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.Date
Spectrum	Keysight	N9020A	MY51240612	2025-07-25
Power Meter 10Hz~18GHz	Tonscend	JS0806-2	188060126	2025-07-25
Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101783	2025-07-25
Signal generator	Keysight	E4421	GB40051020	2025-05-16
Universal Switch Control Unit	Rohde&Schwarz	CMW500	12010002k50	2025-07-25
Humidity tester	Jingchuang	GSP-8A	CMA22B000592	2025-07-25
Test Software	Tonscend	JS0806-2	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months.
2. The test was performed in RF Chamber.

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Test Report No.: 2412050592 -RF-US-01

Appendix – Information on the Testing Laboratories

We, [Hwa-Hsing \(Dongguan\) Testing Co., Ltd.](#), A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values “HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT”, commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lab Address: [No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park, HuangJiang Town, Dongguan City, People's Republic of China](#)

Contact Tel: [0769-85598986](#)

Email: service-hs@lyns-tci.com

Web Site: www.lyns-tci.com

The address and road map of all our labs can be found in our web site also.

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