



RF TEST REPORT

Product Name: Oakford Pellet Grills

Model Number: 910-0509, 910-0508

FCC ID: 2A3GE910-0509

Issued For : Nexgrill Industries, Inc

14050 Laurelwood Pl, Chino CA 91710 USA

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

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT25G315RF04

Sample Received Date: Aug. 11, 2025

Date of Test: Aug. 11, 2025 ~ Sep. 25, 2025

Date of Issue: Sep. 25, 2025

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TEST REPORT CERTIFICATION

Applicant: Nexgrill Industries, Inc
Address: 14050 Laurelwood Pl, Chino CA 91710 USA
Manufacturer: Nexgrill Industries, Inc
Address: 14050 Laurelwood Pl, Chino CA 91710 USA
Product Name: Oakford Pellet Grills
Trademark: Nexgrill
Model Number: 910-0509, 910-0508
Sample Status: Normal
Serial Number: LGT2508132-1

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.247, Subpart C ANSI C63.10-2020/Cor 1-2023	PASS

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Technical Director





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Revision History

Rev.	Issue Date	Contents
00	Sep. 25, 2025	Initial Issue



1. SUMMARY OF TEST RESULTS

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

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247(a)(1)	Hopping Channel Separation	PASS	--
15.247(a)(1)&(b)(1)	Output Power	PASS	--
15.209	Radiated Spurious Emission	PASS	--
15.247(d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247(a)(1)(iii)	Number of Hopping Frequency	PASS	--
15.247(a)(1)(iii)	Dwell Time	PASS	--
15.247(a)(1)	Bandwidth	PASS	--
15.205	Restricted bands of operation	PASS	--
Part 15.247(d) Part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020/Cor 1-2023.
- (3) The test data have all been compensated for cable loss, and when measuring the entire 30M-25G segment, the maximum loss value of the whole segment was used for compensation.



1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	FCC Registration No.: 746540
	CAB ID: CN0136
	Company Number: 28858

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	± 0.46 %
2	RF Output Power, Conducted	± 0.71 dB
3	Power Spectral Density, Conducted	± 1.57 dB
4	Unwanted Emission, Conducted	± 0.63 dB
5	Conducted emission	± 2.80 dB
6	All Emissions, Radiated (0.009-30MHz)	± 2.16 dB
7	All Emissions, Radiated (30MHz-1GHz)	± 4.61 dB
8	All Emissions, Radiated (1GHz-18GHz)	± 5.49 dB
9	Temperature	$\pm 0.5^{\circ}\text{C}$
10	Humidity	$\pm 2\%$
11	Duty Cycle	$\pm 2.3\%$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Oakford Pellet Grills
Test Model Number:	910-0509
Series Number:	910-0508
Model Difference:	910-0508 is same as 910-0509 except size.
Channel List:	Please refer to the Note 3.
Bluetooth:	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8DPSK(3Mbps)
Antenna Type:	PCB
Antenna Gain:	2.67dBi
Rating:	Input: AC 120V/60Hz
Hardware Version:	V01
Software Version:	V01
Connecting I/O Port(s):	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.
3. Based on the model difference, 910-0509 was selected as the typical model for all necessary tests performed, 910-0508 only performed conducted emission and radiated spurious emission.



3.

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



2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Modulation
Mode 1	TX CH00(2402MHz)	DH5/GFSK
Mode 2	TX CH39(2441MHz)	DH5/GFSK
Mode 3	TX CH78(2480MHz)	DH5/GFSK
Mode 4	TX CH00(2402MHz)	2DH5/ π /4-DQPSK
Mode 5	TX CH39(2441MHz)	2DH5/ π /4-DQPSK
Mode 6	TX CH78(2480MHz)	2DH5/ π /4-DQPSK
Mode 7	TX CH00(2402MHz)	3DH5/8DPSK
Mode 8	TX CH39(2441MHz)	3DH5/8DPSK
Mode 9	TX CH78(2480MHz)	3DH5/8DPSK
Mode 10	Hopping	DH5/GFSK
Mode 11	Hopping	2DH5/ π /4-DQPSK
Mode 12	Hopping	3DH5/8DPSK

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/ 60Hz is shown in the report.
- (3) The battery is fully charged during the radiated and RF conducted test.

For AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 13: Keeping BT TX

2.3 FREQUENCY HOPPING SYSTEM REQUIREMENTS

(1) Standard and Limit

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is



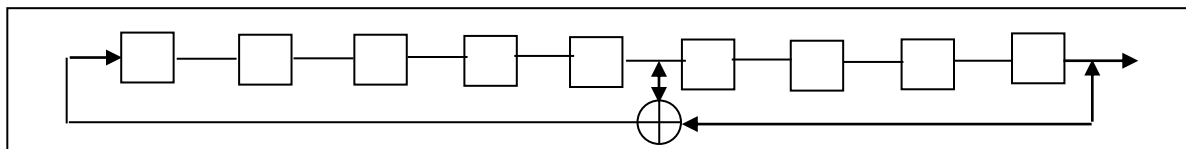
not permitted.

(2) The Pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones: i.e. the shift register is initialized with nine ones.

Number of shift register stages: 9

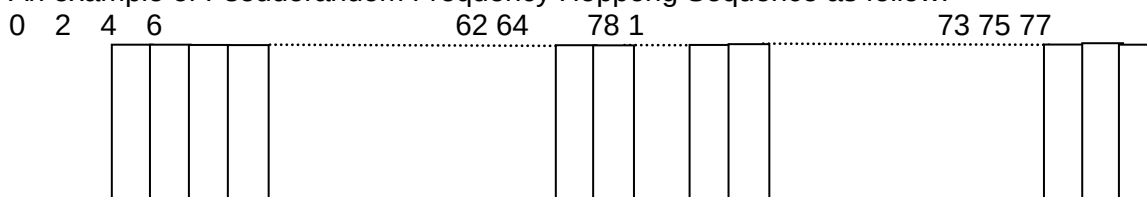
Length of pseudo-random sequence: $2^9 - 1 = 511$ bits

Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generator of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follows:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

(3) Frequency Hopping System

This transmitter device is frequency hopping device and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless device are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with a bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements FCC Part 15.247 rule.



2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

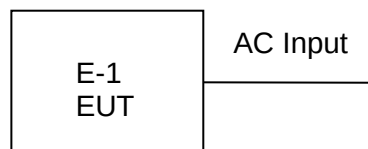
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS.

Test software Version	Test program: Bluetooth	
EspRFTestTool_v4.6_Manual	Mode Or Modulation type	Power setting
	1M	6
	2M	6
	3M	6

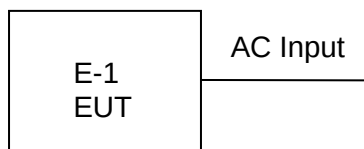


2.5 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

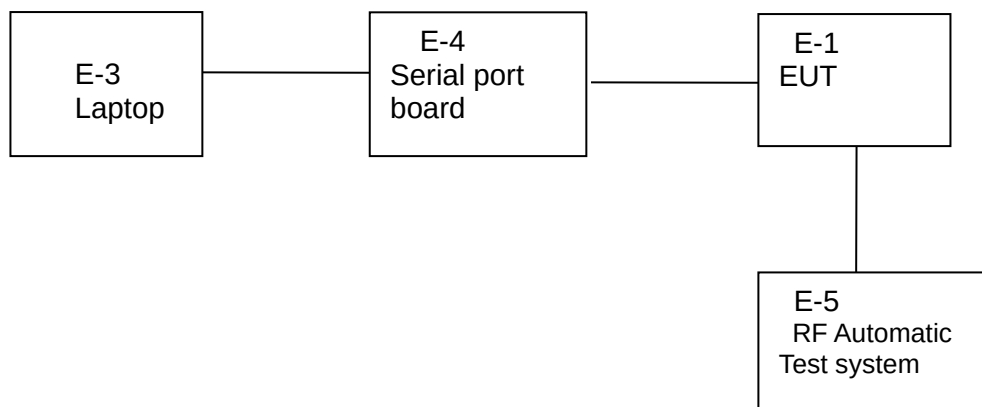
Radiation Test Set



conduction Test Set



Radiation conduction direct Test Set





2.6 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T470s	N/A	N/A
Debug board	N/A	TTL-C4C	N/A	N/A
Mobile phone	SHARK	KSR-10	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.6 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
LISN	COM-POWER	LI-115	02032	2025.03.05	2026.03.04
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2025.03.05	2026.03.04
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600-NMNM-2M	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024.05.17	2027.05.16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023.10.23	2026.10.22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2025.03.06	2026.03.05
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2024.10.21	2025.10.20
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600 -NMNM-8M	N.A	2025.03.06	2026.03.05
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B -NMSM-1M9	N.A	2025.03.06	2026.03.05
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241 -05000KMSKMS	N.A	2025.03.08	2026.03.07
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Power Sensor	R&S	NRP8S	149.0006K02 -104963-Ae	2025.03.06	2026.03.05
RF Automatic Test system	TST	TST PASS	293	2025.07.15	2026.07.14
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Attenuator	eastsheep	90db	N.A	2025.03.06	2026.03.05
Temperature &	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09



Humidity					
Digital multimeter	MASTECH	MS8261	MBGBC83053	2025.03.05	2026.03.04
DC source	Keysight	E3634A	MY58036468	2025.03.06	2026.03.05
Testing Software	TST Pass_2.0.2				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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

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

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

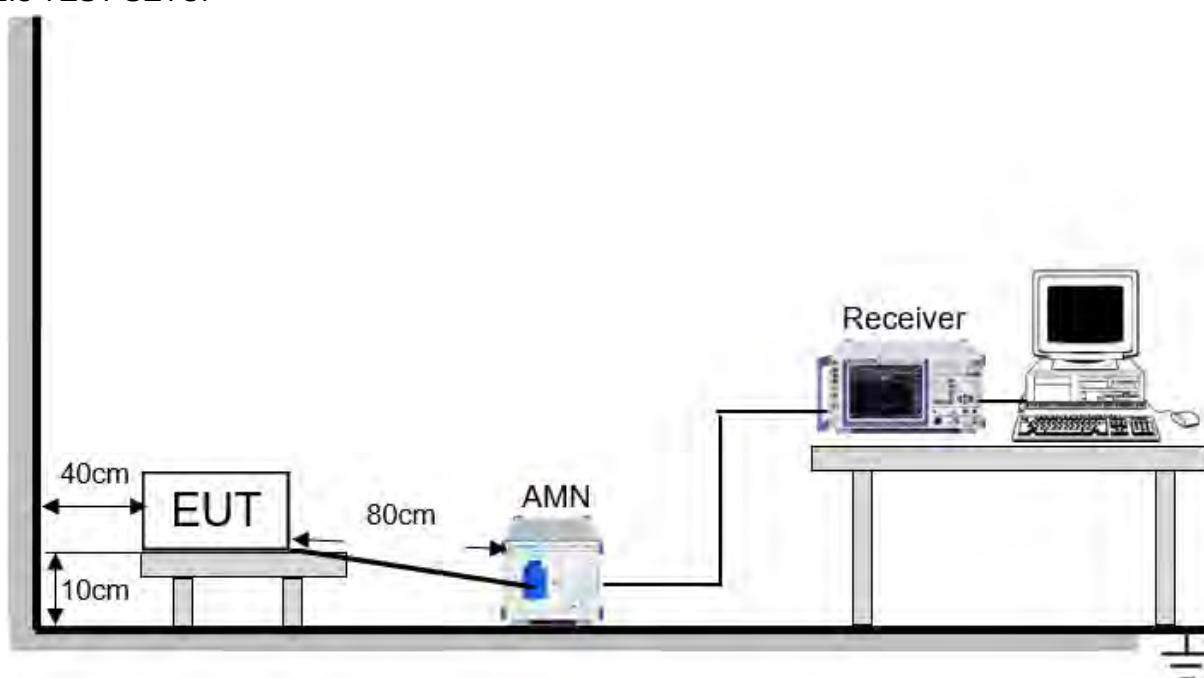
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the conducting wall and 0.1m from Horizontal reference grounding plate 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 provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



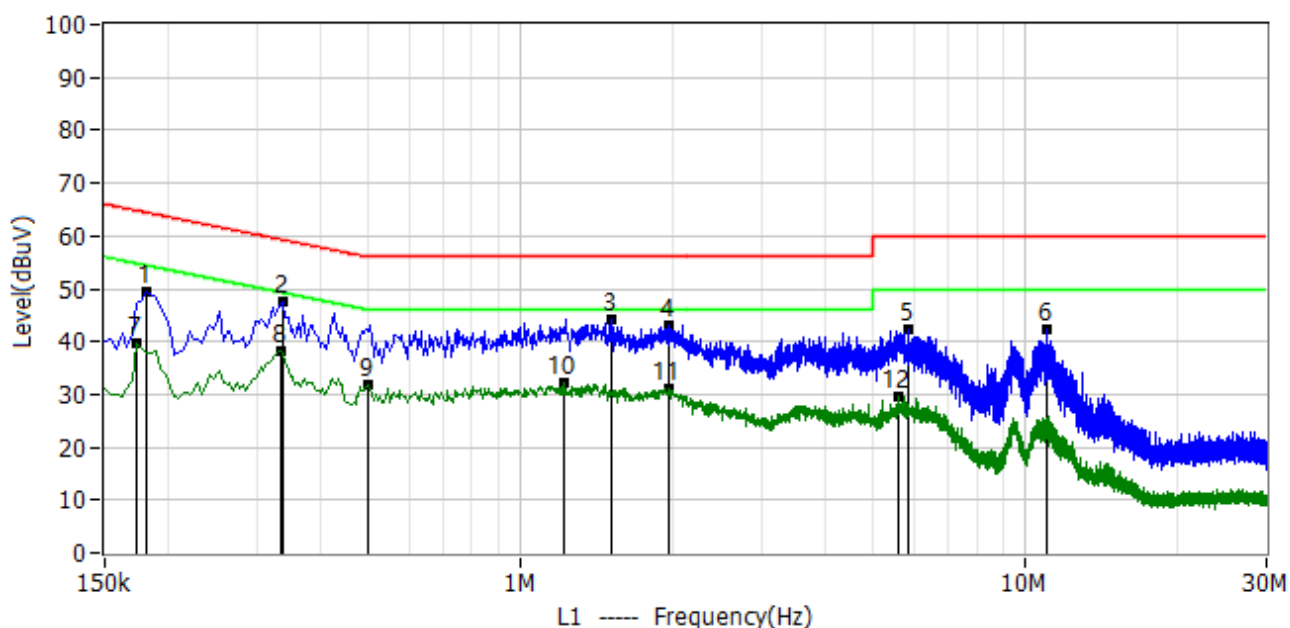
3.1.4 EUT OPERATING CONDITIONS

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



3.1.5 TEST RESULT

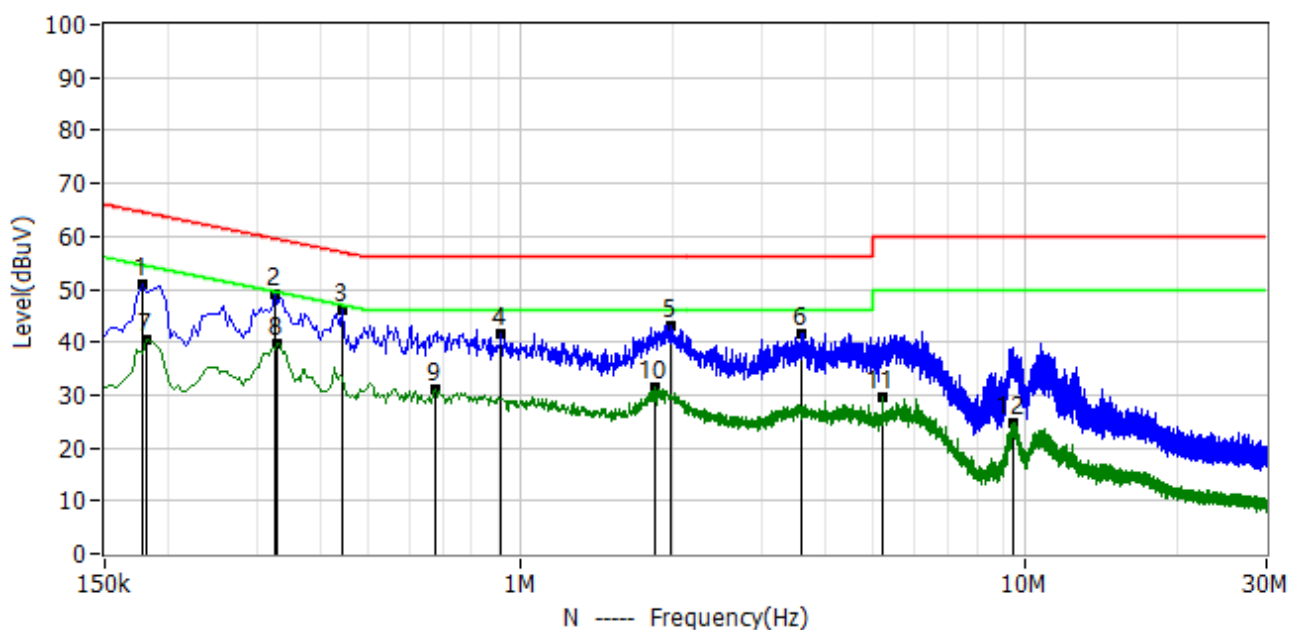
Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.2°C
M/N: 910-0509	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-12
Test Mode: TX DH5 2402	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.182	38.60	10.67	49.27	64.39	-15.12	QP	L1
2*	0.338	36.57	10.88	47.45	59.25	-11.80	QP	L1
3*	1.518	33.11	11.15	44.26	56.00	-11.74	QP	L1
4*	1.970	32.16	11.09	43.25	56.00	-12.75	QP	L1
5*	5.870	30.79	11.37	42.16	60.00	-17.84	QP	L1
6*	11.034	30.69	11.55	42.24	60.00	-17.76	QP	L1
7*	0.174	29.01	10.65	39.66	54.77	-15.11	AV	L1
8*	0.334	27.24	10.87	38.11	49.35	-11.24	AV	L1
9*	0.498	20.78	10.93	31.71	46.03	-14.33	AV	L1
10*	1.214	21.13	11.02	32.15	46.00	-13.85	AV	L1
11*	1.958	20.10	11.10	31.20	46.00	-14.80	AV	L1
12*	5.574	18.20	11.36	29.56	50.00	-20.44	AV	L1



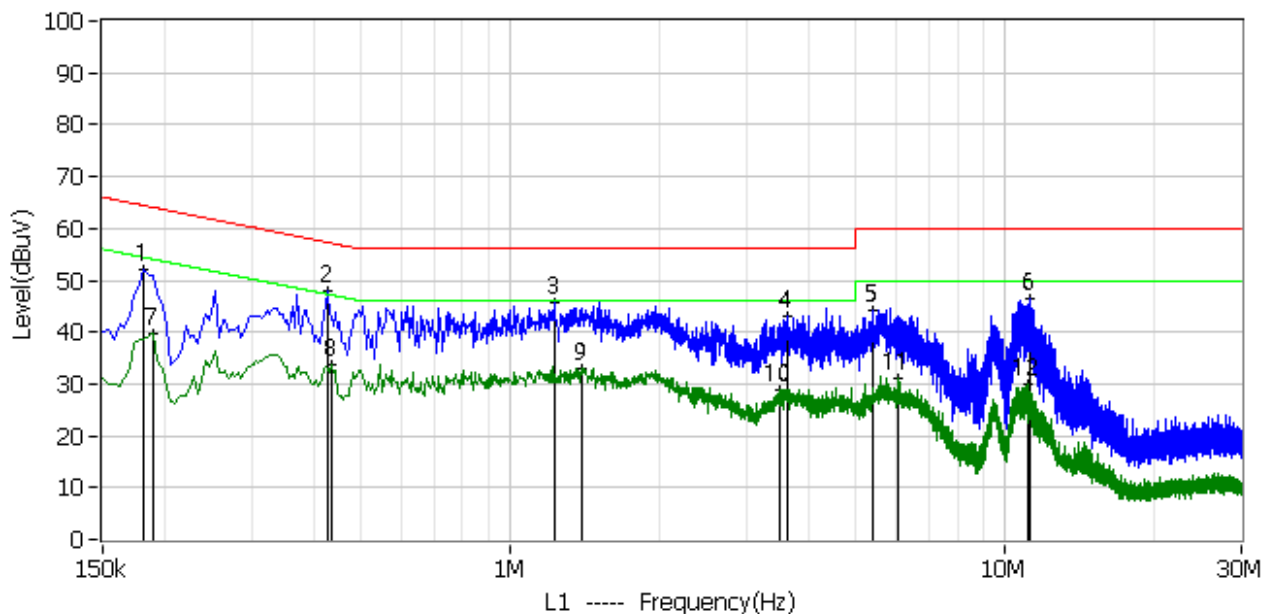
Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.2°C
M/N: 910-0509	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-12
Test Mode: TX DH5 2402	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.178	40.19	10.64	50.83	64.58	-13.75	QP	N
2*	0.326	38.23	10.79	49.02	59.55	-10.53	QP	N
3*	0.442	35.42	10.83	46.25	57.02	-10.77	QP	N
4*	0.914	30.86	10.84	41.70	56.00	-14.30	QP	N
5*	1.990	32.08	11.14	43.22	56.00	-12.78	QP	N
6*	3.590	30.46	11.26	41.72	56.00	-14.28	QP	N
7*	0.182	29.67	10.65	40.32	54.39	-14.08	AV	N
8*	0.330	28.92	10.80	39.72	49.45	-9.73	AV	N
9*	0.678	20.37	10.86	31.23	46.00	-14.77	AV	N
10*	1.846	20.19	11.13	31.32	46.00	-14.68	AV	N
11*	5.226	18.43	11.32	29.75	50.00	-20.25	AV	N
12*	9.482	13.41	11.48	24.89	50.00	-25.11	AV	N



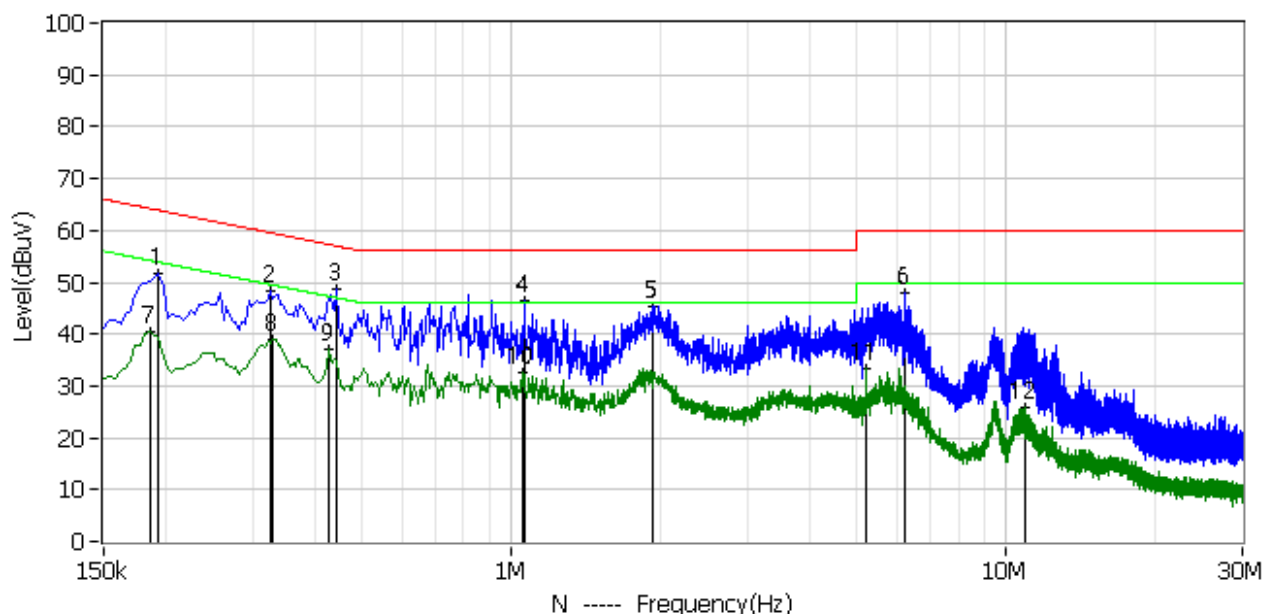
Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.2°C
M/N: 910-0508	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-09-12
Test Mode: TX DH5 2402	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.182	41.23	10.67	51.90	64.39	-12.49	QP	L1
2*	0.426	36.94	10.88	47.82	57.33	-9.51	QP	L1
3*	1.230	34.69	11.02	45.71	56.00	-10.29	QP	L1
4*	3.642	31.78	11.26	43.04	56.00	-12.96	QP	L1
5*	5.398	32.95	11.35	44.30	60.00	-15.70	QP	L1
6*	11.174	34.72	11.55	46.27	60.00	-13.73	QP	L1
7*	0.190	28.97	10.69	39.66	54.04	-14.38	AV	L1
8*	0.434	22.88	10.88	33.76	47.18	-13.42	AV	L1
9*	1.398	21.95	11.10	33.05	46.00	-12.95	AV	L1
10*	3.486	17.69	11.28	28.97	46.00	-17.03	AV	L1
11*	6.098	19.56	11.38	30.94	50.00	-19.06	AV	L1
12*	11.066	18.27	11.55	29.82	50.00	-20.18	AV	L1



Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.2°C
M/N: 910-0508	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-09-12
Test Mode: TX DH5 2402	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.194	40.94	10.68	51.62	63.86	-12.24	QP	N
2*	0.326	37.59	10.79	48.38	59.55	-11.17	QP	N
3*	0.442	37.69	10.83	48.52	57.02	-8.50	QP	N
4*	1.062	35.54	10.87	46.41	56.00	-9.59	QP	N
5*	1.922	34.16	11.13	45.29	56.00	-10.71	QP	N
6*	6.254	36.45	11.37	47.82	60.00	-12.18	QP	N
7*	0.186	29.85	10.66	40.51	54.21	-13.70	AV	N
8*	0.330	28.30	10.80	39.10	49.45	-10.35	AV	N
9*	0.426	26.17	10.82	36.99	47.33	-10.34	AV	N
10*	1.050	21.77	10.86	32.63	46.00	-13.37	AV	N
11*	5.226	21.87	11.32	33.19	50.00	-16.81	AV	N
12*	10.922	14.21	11.53	25.74	50.00	-24.26	AV	N



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2020/Cor 1-2023 below has to be followed.

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

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

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

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



For Radiated Emission

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

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

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

For Restricted band

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz Upper Band Edge: 2476 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

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



3.2.2 TEST PROCEDURE

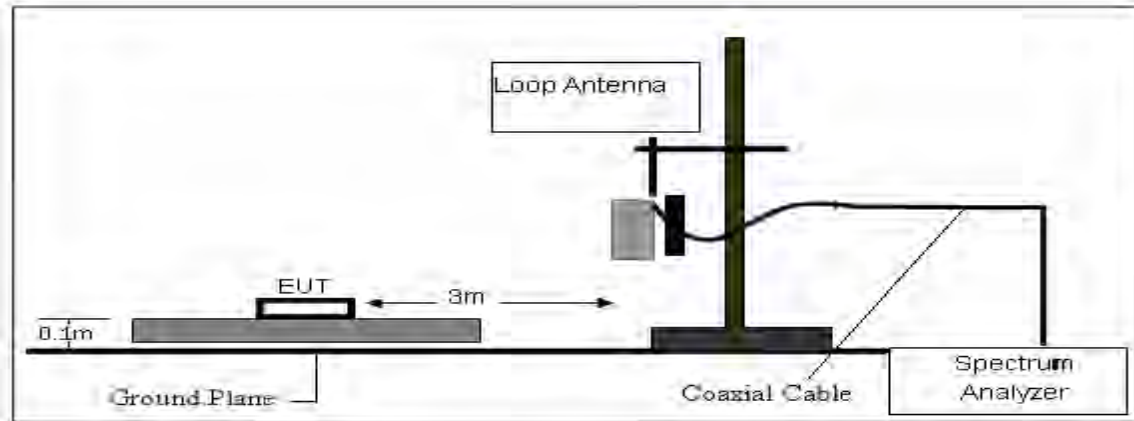
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
The EUT was placed on the top of a rotating table 0.1 m (above 1GHz is 0.1 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- b. The height of the equipment shall be 0.1 m (above 1GHz is 0.1 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- c. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit,
- e. the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
Note:
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

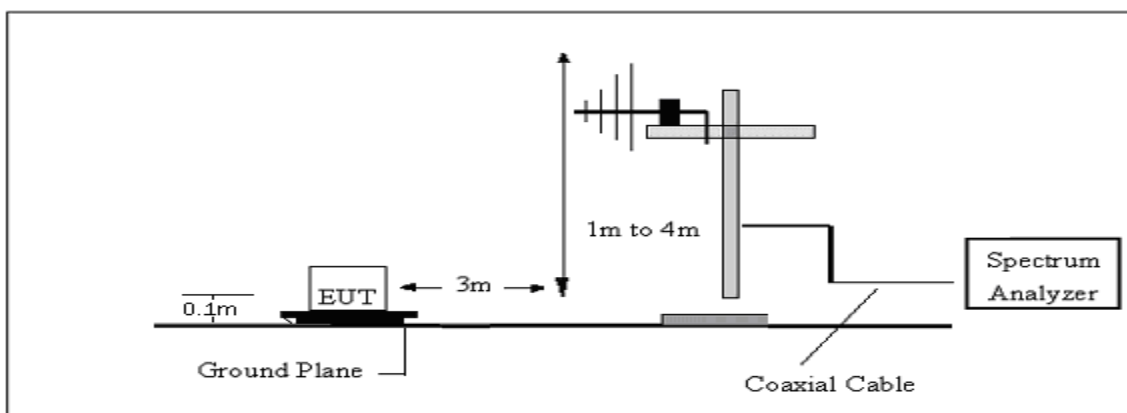
No deviation.

3.2.4 TESTSETUP

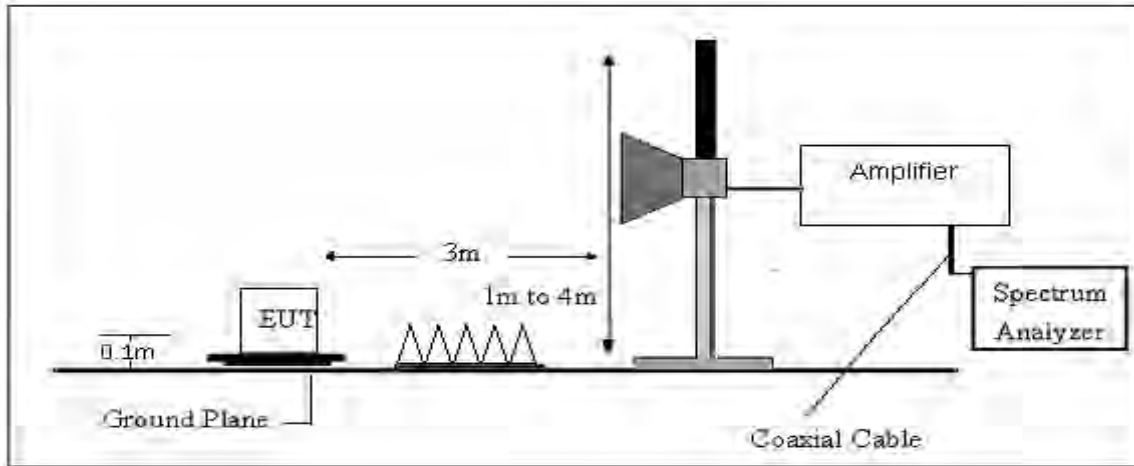
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 FIELD STRENGTH CALCULATION

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

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

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

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.2.7 TEST RESULTS

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

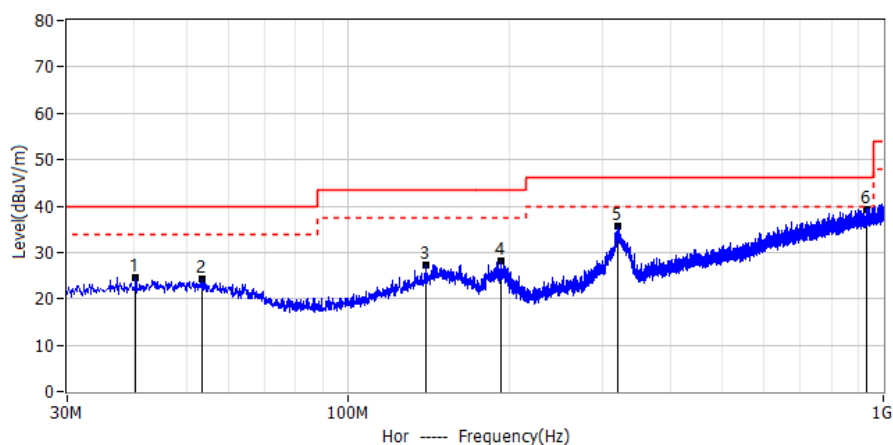
Limit line = specific limits (dBuV) + distance extrapolation factor.



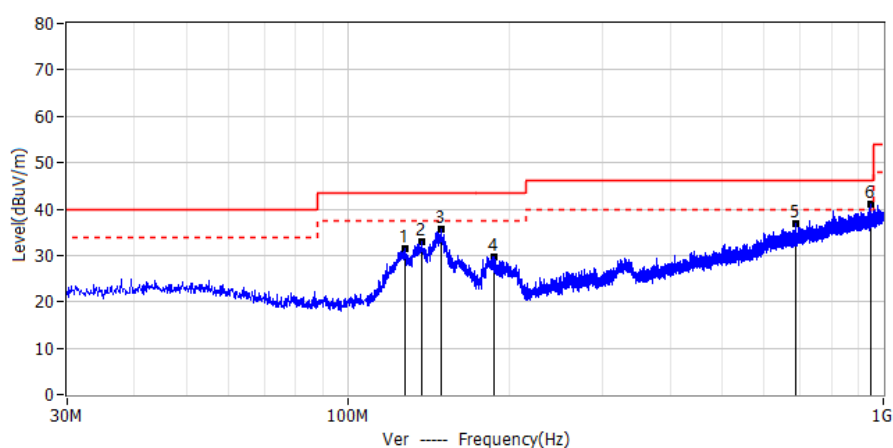
Results of Radiated Emissions (30MHz~1000MHz)

Note:1. All mode has been tested, only shown the worst case data,
2. The peak value is less than the AV limit, so no AV data is displayed.

Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 24.1°C
M/N: 910-0509	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-15
Test Mode: TX DH5 2402	
Note:	



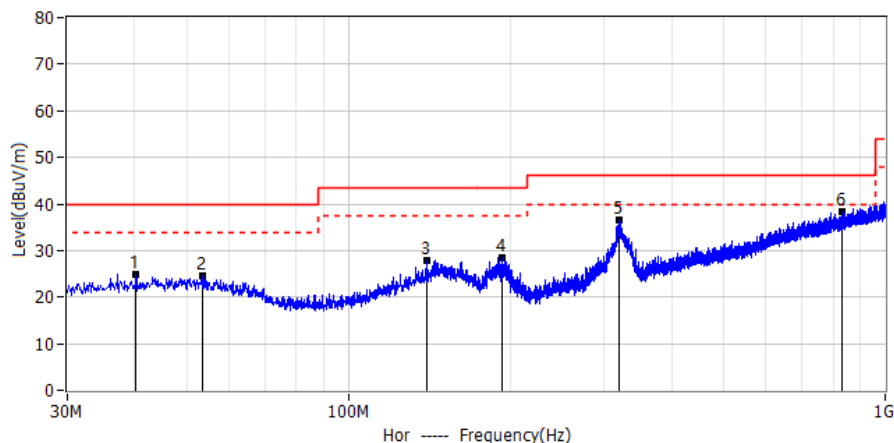
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	40.306	4.25	20.37	24.62	40.00	-15.38	QP	Hor
2*	53.401	3.54	20.82	24.36	40.00	-15.64	QP	Hor
3*	139.731	5.99	21.40	27.39	43.50	-16.11	QP	Hor
4*	193.445	9.36	18.73	28.09	43.50	-15.41	QP	Hor
5*	320.394	12.53	23.00	35.53	46.00	-10.47	QP	Hor
6*	928.705	4.71	34.47	39.18	46.00	-6.82	QP	Hor



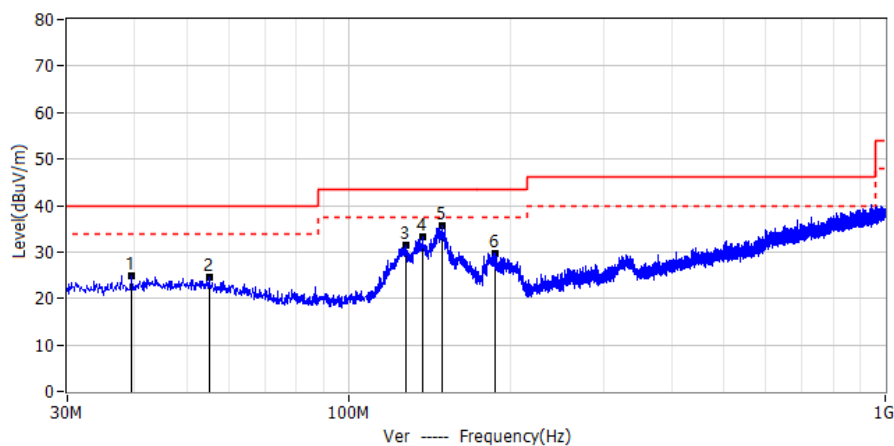
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	127.728	10.97	20.36	31.33	43.50	-12.17	QP	Ver
2*	137.670	12.12	20.98	33.10	43.50	-10.40	QP	Ver
3*	149.553	13.76	21.88	35.64	43.50	-7.86	QP	Ver
4*	187.868	10.97	18.71	29.68	43.50	-13.82	QP	Ver
5*	687.418	5.97	30.82	36.79	46.00	-9.21	QP	Ver
6*	944.831	6.28	34.88	41.16	46.00	-4.84	QP	Ver



Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 24.1°C
M/N: 910-0508	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-09-11
Test Mode: TX DH5 2402	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	40.512	4.44	20.37	24.81	40.00	-15.19	QP	Hor
2*	54.215	3.78	20.82	24.60	40.00	-15.40	QP	Hor
3*	139.521	6.51	21.40	27.91	43.50	-15.59	QP	Hor
4*	195.515	9.80	18.73	28.53	43.50	-14.97	QP	Hor
5*	321.423	13.59	23.00	36.59	46.00	-9.41	QP	Hor
6*	833.039	5.08	33.37	38.45	46.00	-7.55	QP	Hor

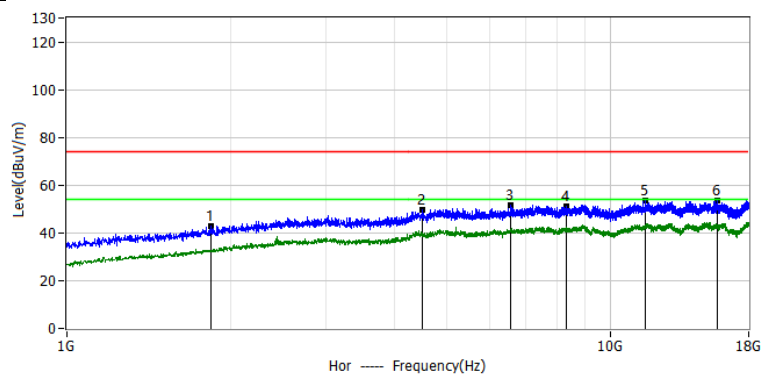


No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	39.579	4.79	20.19	24.98	40.00	-15.02	QP	Ver
2*	55.099	4.28	20.34	24.62	40.00	-15.38	QP	Ver
3*	128.548	11.06	20.36	31.42	43.50	-12.08	QP	Ver
4*	137.957	12.30	20.98	33.28	43.50	-10.22	QP	Ver
5*	149.431	13.86	21.90	35.76	43.50	-7.74	QP	Ver
6*	184.231	11.06	18.71	29.77	43.50	-13.73	QP	Ver

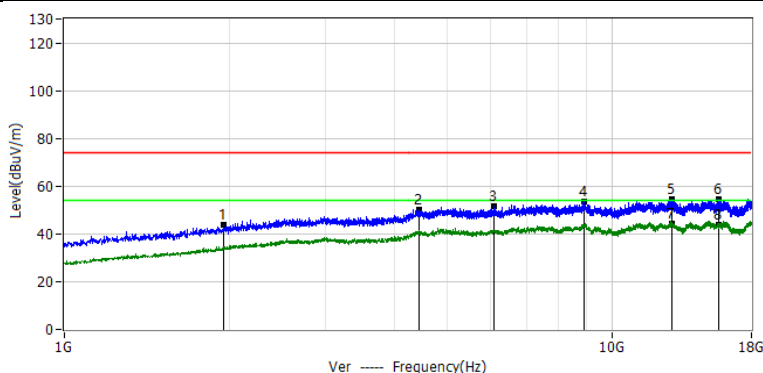


Results of Radiated Emissions (Above 1000MHz)

Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.6°C
M/N: 910-0509	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-20
Test Mode: 3DH5 2402	
Note:	



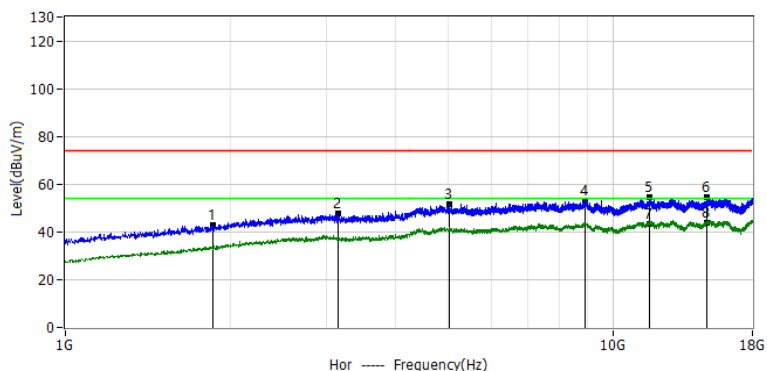
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1839.4000	59.46	-16.72	42.74	74.00	-31.26	PK	Hor
2*	4516.9000	55.41	-5.61	49.80	74.00	-24.20	PK	Hor
3*	6550.5000	58.92	-7.45	51.47	74.00	-22.53	PK	Hor
4*	8329.1000	58.99	-7.66	51.33	74.00	-22.67	PK	Hor
5*	11625.0000	58.32	-4.99	53.33	74.00	-20.67	PK	Hor
6*	15745.4000	57.25	-3.58	53.67	74.00	-20.33	PK	Hor
7*	1839.4000	59.46	-16.72	42.74	54.00	-11.26	AV	Hor
8*	4516.9000	55.41	-5.61	49.80	54.00	-4.20	AV	Hor
9*	6550.5000	58.92	-7.45	51.47	54.00	-2.53	AV	Hor
10*	8329.1000	58.99	-7.66	51.33	54.00	-2.67	AV	Hor
11*	11625.0000	58.32	-4.99	53.33	54.00	-0.67	AV	Hor
12*	15745.4000	57.25	-3.58	53.67	54.00	-0.33	AV	Hor



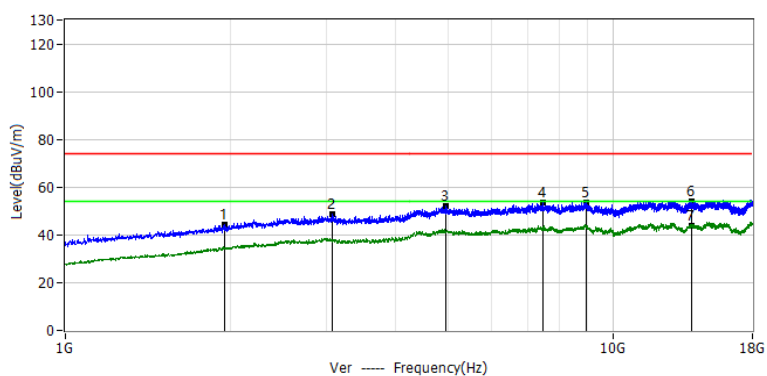
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1954.1000	58.92	-15.33	43.59	74.00	-30.41	PK	Ver
2*	4446.7000	56.04	-5.82	50.22	74.00	-23.78	PK	Ver
3*	6091.5000	59.71	-7.89	51.82	74.00	-22.18	PK	Ver
4*	8881.6000	60.57	-7.12	53.45	74.00	-20.55	PK	Ver
5*	12853.2000	59.28	-4.89	54.39	74.00	-19.61	PK	Ver
6*	15685.9000	58.15	-3.60	54.55	74.00	-19.45	PK	Ver
7*	1954.1000	58.92	-15.33	43.59	54.00	-10.41	AV	Ver
8*	4446.7000	56.04	-5.82	50.22	54.00	-13.78	AV	Ver
9*	6091.5000	59.71	-7.89	51.82	54.00	-2.18	AV	Ver
10*	8881.6000	60.57	-7.12	53.45	54.00	-0.55	AV	Ver
11*	12853.2000	48.99	-4.89	44.10	54.00	-9.90	AV	Ver
12*	15685.9000	47.30	-3.60	43.70	54.00	-10.30	AV	Ver



Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.6°C
M/N: 910-0509	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-20
Test Mode: 3DH5 2441	
Note:	



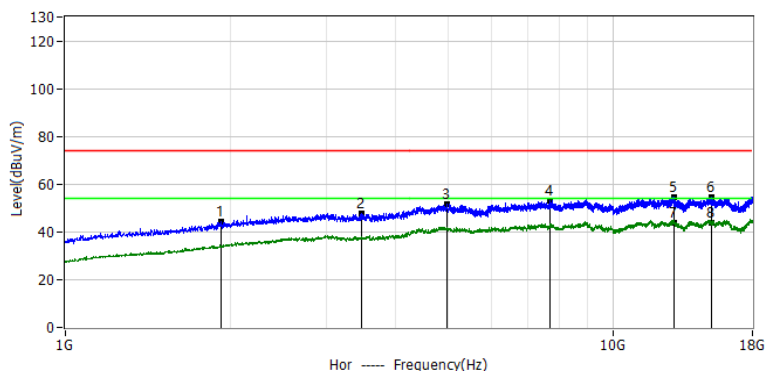
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1856.4000	59.39	-16.52	42.87	74.00	-31.13	PK	Hor
2*	3152.6000	55.87	-8.18	47.69	74.00	-26.31	PK	Hor
3*	5029.0000	57.78	-6.12	51.66	74.00	-22.34	PK	Hor
4*	8909.2000	60.36	-7.09	53.27	74.00	-20.73	PK	Hor
5*	11659.0000	59.51	-4.99	54.52	74.00	-19.48	PK	Hor
6*	14855.0000	59.11	-4.53	54.58	74.00	-19.42	PK	Hor
7*	1856.4000	59.39	-16.52	42.87	54.00	-11.13	AV	Hor
8*	3152.6000	55.87	-8.18	47.69	54.00	-6.31	AV	Hor
9*	5029.0000	57.78	-6.12	51.66	54.00	-2.34	AV	Hor
10*	8909.2000	60.36	-7.09	53.27	54.00	-0.73	AV	Hor
11*	11659.0000	48.19	-4.99	43.20	54.00	-10.80	AV	Hor
12*	14855.0000	48.13	-4.53	43.60	54.00	-10.40	AV	Hor



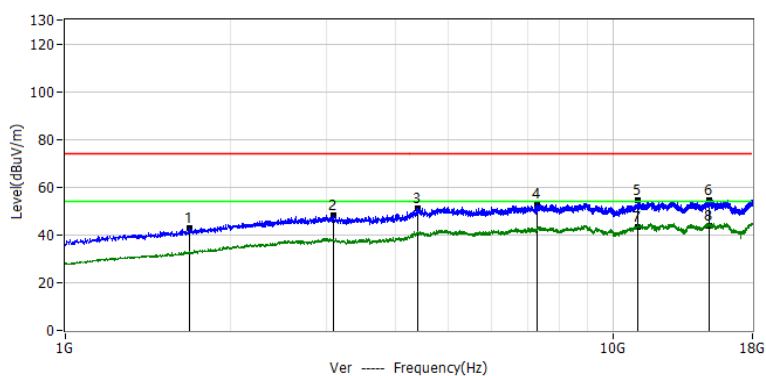
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1956.2000	59.37	-15.30	44.07	74.00	-29.93	PK	Ver
2*	3071.9000	56.76	-8.15	48.61	74.00	-25.39	PK	Ver
3*	4963.1000	58.03	-5.98	52.05	74.00	-21.95	PK	Ver
4*	7464.2000	60.47	-7.00	53.47	74.00	-20.53	PK	Ver
5*	8926.2000	60.65	-7.07	53.58	74.00	-20.42	PK	Ver
6*	13913.6000	58.52	-4.24	54.28	74.00	-19.72	PK	Ver
7*	1956.2000	59.37	-15.30	44.07	54.00	-9.93	AV	Ver
8*	3071.9000	56.76	-8.15	48.61	54.00	-5.39	AV	Ver
9*	4963.1000	58.03	-5.98	52.05	54.00	-1.95	AV	Ver
10*	7464.2000	60.47	-7.00	53.47	54.00	-0.53	AV	Ver
11*	8926.2000	60.65	-7.07	53.58	54.00	-0.42	AV	Ver
12*	13913.6000	47.84	-4.24	43.60	54.00	-10.40	AV	Ver



Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.6°C
M/N: 910-0509	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-20
Test Mode: 3DH5 2480	
Note:	



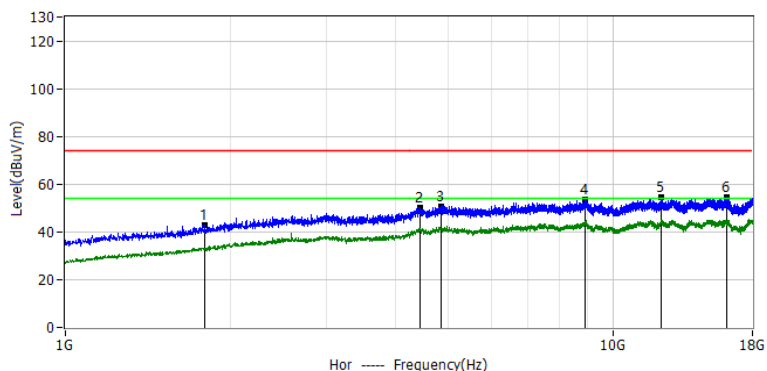
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1924.4000	59.87	-15.69	44.18	74.00	-29.82	PK	Hor
2*	3479.9000	56.10	-8.30	47.80	74.00	-26.20	PK	Hor
3*	4969.5000	57.48	-5.98	51.50	74.00	-22.50	PK	Hor
4*	7695.9000	60.38	-7.38	53.00	74.00	-21.00	PK	Hor
5*	12936.1000	59.59	-4.88	54.71	74.00	-19.29	PK	Hor
6*	15180.1000	58.36	-3.74	54.62	74.00	-19.38	PK	Hor
7*	1924.4000	59.87	-15.69	44.18	54.00	-9.82	AV	Hor
8*	3479.9000	56.10	-8.30	47.80	54.00	-6.20	AV	Hor
9*	4969.5000	57.48	-5.98	51.50	54.00	-2.50	AV	Hor
10*	7695.9000	60.38	-7.38	53.00	54.00	-1.00	AV	Hor
11*	12936.1000	48.68	-4.88	43.80	54.00	-10.20	AV	Hor
12*	15180.1000	47.64	-3.74	43.90	54.00	-10.10	AV	Hor



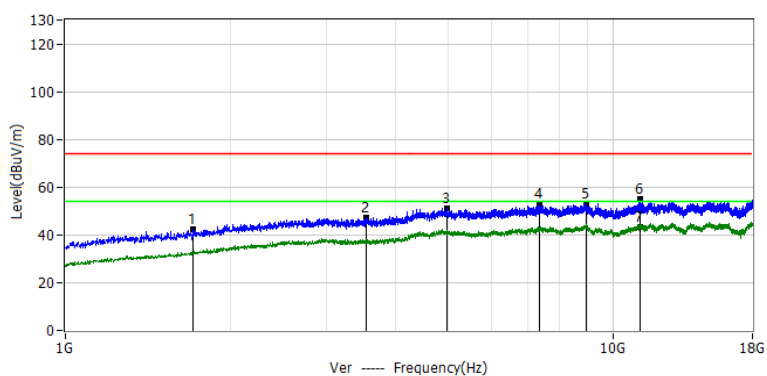
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1684.2000	61.59	-18.55	43.04	74.00	-30.96	PK	Ver
2*	3091.0000	56.18	-8.15	48.03	74.00	-25.97	PK	Ver
3*	4410.6000	57.33	-5.97	51.36	74.00	-22.64	PK	Ver
4*	7268.7000	59.93	-7.04	52.89	74.00	-21.11	PK	Ver
5*	11100.1000	59.83	-5.08	54.75	74.00	-19.25	PK	Ver
6*	14967.6000	58.57	-3.96	54.61	74.00	-19.39	PK	Ver
7*	1684.2000	61.59	-18.55	43.04	54.00	-10.96	AV	Ver
8*	3091.0000	56.18	-8.15	48.03	54.00	-5.97	AV	Ver
9*	4410.6000	57.33	-5.97	51.36	54.00	-2.64	AV	Ver
10*	7268.7000	59.93	-7.04	52.89	54.00	-1.11	AV	Ver
11*	11100.1000	48.58	-5.08	43.50	54.00	-10.50	AV	Ver
12*	14967.6000	47.76	-3.96	43.80	54.00	-10.20	AV	Ver



Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.6°C
M/N: 910-0508	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-20
Test Mode: 3DH5 2402	
Note:	



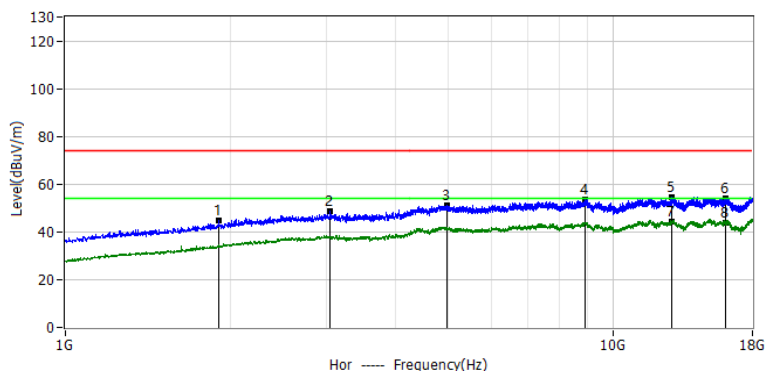
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1796.9000	60.14	-17.24	42.90	74.00	-31.10	PK	Hor
2*	4438.2000	56.19	-5.86	50.33	74.00	-23.67	PK	Hor
3*	4869.6000	56.59	-5.90	50.69	74.00	-23.31	PK	Hor
4*	8881.6000	60.50	-7.12	53.38	74.00	-20.62	PK	Hor
5*	12277.4000	59.21	-4.92	53.89	74.00	-20.11	PK	Hor
6*	16121.5000	58.50	-4.02	53.88	74.00	-20.12	PK	Hor
7*	1796.9000	60.14	-17.24	42.90	54.00	-11.10	AV	Hor
8*	4438.2000	56.19	-5.86	50.33	54.00	-3.67	AV	Hor
9*	4869.6000	56.59	-5.90	50.69	54.00	-3.31	AV	Hor
10*	8881.6000	60.50	-7.12	53.38	54.00	-0.62	AV	Hor
11*	12277.4000	59.21	-4.92	53.89	54.00	-0.11	AV	Hor
12*	16121.5000	58.50	-4.02	53.88	54.00	-0.12	AV	Hor



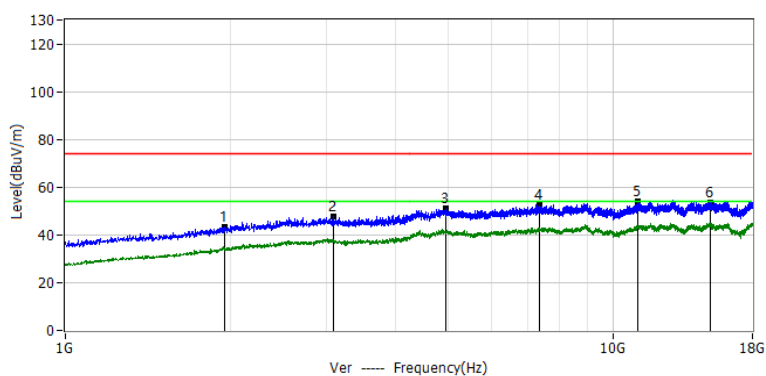
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1714.0000	60.71	-18.20	42.51	74.00	-31.49	PK	Ver
2*	3550.0000	55.57	-8.24	47.33	74.00	-26.67	PK	Ver
3*	4990.7000	57.14	-6.00	51.14	74.00	-22.86	PK	Ver
4*	7355.9000	60.12	-7.02	53.10	74.00	-20.90	PK	Ver
5*	8964.5000	60.06	-7.03	53.03	74.00	-20.97	PK	Ver
6*	11206.4000	59.88	-5.06	54.82	74.00	-19.18	PK	Ver
7*	1714.0000	60.71	-18.20	42.51	54.00	-11.49	AV	Ver
8*	3550.0000	55.57	-8.24	47.33	54.00	-6.67	AV	Ver
9*	4990.7000	57.14	-6.00	51.14	54.00	-2.86	AV	Ver
10*	7355.9000	60.12	-7.02	53.10	54.00	-0.90	AV	Ver
11*	8964.5000	60.06	-7.03	53.03	54.00	-0.97	AV	Ver
12*	11206.4000	48.36	-5.06	43.30	54.00	-10.70	AV	Ver



Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.6°C
M/N: 910-0508	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-20
Test Mode: 3DH5 2441	
Note:	



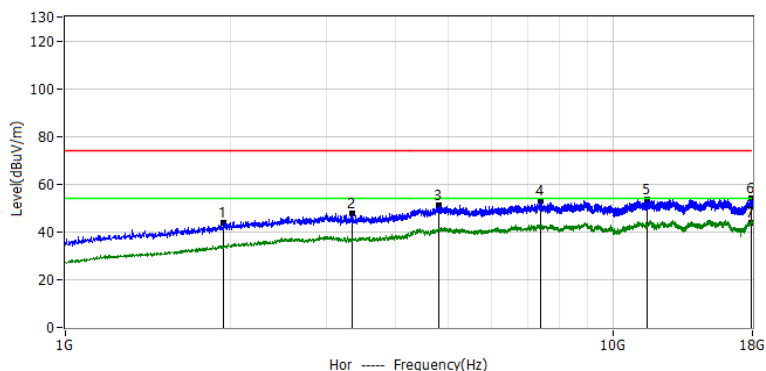
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1905.2000	60.74	-15.92	44.82	74.00	-29.18	PK	Hor
2*	3048.5000	56.62	-8.14	48.48	74.00	-25.52	PK	Hor
3*	4969.5000	57.11	-5.98	51.13	74.00	-22.87	PK	Hor
4*	8883.7000	60.78	-7.11	53.67	74.00	-20.33	PK	Hor
5*	12817.1000	59.23	-4.89	54.34	74.00	-19.66	PK	Hor
6*	16066.2000	57.91	-3.79	54.12	74.00	-19.88	PK	Hor
7*	1905.2000	60.74	-15.92	44.82	54.00	-9.18	AV	Hor
8*	3048.5000	56.62	-8.14	48.48	54.00	-5.52	AV	Hor
9*	4969.5000	57.11	-5.98	51.13	54.00	-2.87	AV	Hor
10*	8883.7000	60.78	-7.11	53.67	54.00	-0.33	AV	Hor
11*	12817.1000	48.99	-4.89	44.10	54.00	-9.90	AV	Hor
12*	16066.2000	47.79	-3.79	44.00	54.00	-10.00	AV	Hor



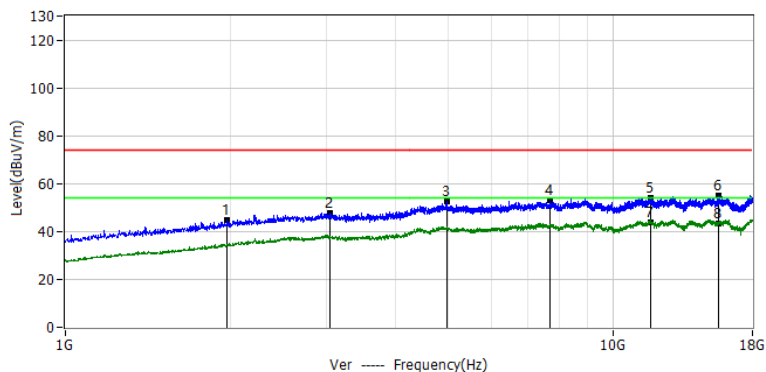
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1949.9000	58.79	-15.38	43.41	74.00	-30.59	PK	Ver
2*	3082.5000	55.86	-8.15	47.71	74.00	-26.29	PK	Ver
3*	4948.2000	56.86	-5.97	50.89	74.00	-23.11	PK	Ver
4*	7360.1000	59.66	-7.02	52.64	74.00	-21.36	PK	Ver
5*	11102.2000	59.08	-5.08	53.87	74.00	-20.13	PK	Ver
6*	15039.9000	57.52	-3.78	53.74	74.00	-20.26	PK	Ver
7*	1949.9000	58.79	-15.38	43.41	54.00	-10.59	AV	Ver
8*	3082.5000	55.86	-8.15	47.71	54.00	-6.29	AV	Ver
9*	4948.2000	56.86	-5.97	50.89	54.00	-3.11	AV	Ver
10*	7360.1000	59.66	-7.02	52.64	54.00	-1.36	AV	Ver
11*	11102.2000	59.08	-5.08	53.87	54.00	-0.13	AV	Ver
12*	15039.9000	57.52	-3.78	53.74	54.00	-0.26	AV	Ver



Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.6°C
M/N: 910-0508	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-20
Test Mode: 3DH5 2480	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1947.7000	59.01	-15.41	43.60	74.00	-30.40	PK	Hor
2*	3343.9000	56.00	-8.25	47.75	74.00	-26.25	PK	Hor
3*	4805.9000	57.02	-5.85	51.17	74.00	-22.83	PK	Hor
4*	7368.6000	59.90	-7.02	52.88	74.00	-21.12	PK	Hor
5*	11569.7000	58.43	-5.00	53.43	74.00	-20.57	PK	Hor
6*	17927.7000	57.08	-3.06	54.02	74.00	-19.98	PK	Hor
7*	1947.7000	59.01	-15.41	43.60	54.00	-10.40	AV	Hor
8*	3343.9000	56.00	-8.25	47.75	54.00	-6.25	AV	Hor
9*	4805.9000	57.02	-5.85	51.17	54.00	-2.83	AV	Hor
10*	7368.6000	59.90	-7.02	52.88	54.00	-1.12	AV	Hor
11*	11569.7000	58.43	-5.00	53.43	54.00	-0.57	AV	Hor
12*	17927.7000	46.86	-3.06	43.80	54.00	-10.20	AV	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1973.2000	59.79	-15.10	44.69	74.00	-29.31	PK	Ver
2*	3044.2000	55.89	-8.14	47.75	74.00	-26.25	PK	Ver
3*	4984.4000	58.80	-6.00	52.80	74.00	-21.20	PK	Ver
4*	7685.2000	60.35	-7.36	52.99	74.00	-21.01	PK	Ver
5*	11707.9000	59.21	-4.98	54.23	74.00	-19.77	PK	Ver
6*	15622.1000	58.61	-3.62	54.99	74.00	-19.01	PK	Ver
7*	1973.2000	59.79	-15.10	44.69	54.00	-9.31	AV	Ver
8*	3044.2000	55.89	-8.14	47.75	54.00	-6.25	AV	Ver
9*	4984.4000	58.80	-6.00	52.80	54.00	-1.20	AV	Ver
10*	7685.2000	60.35	-7.36	52.99	54.00	-1.01	AV	Ver
11*	11707.9000	48.68	-4.98	43.70	54.00	-10.30	AV	Ver
12*	15622.1000	46.82	-3.62	43.20	54.00	-10.80	AV	Ver

Remark:

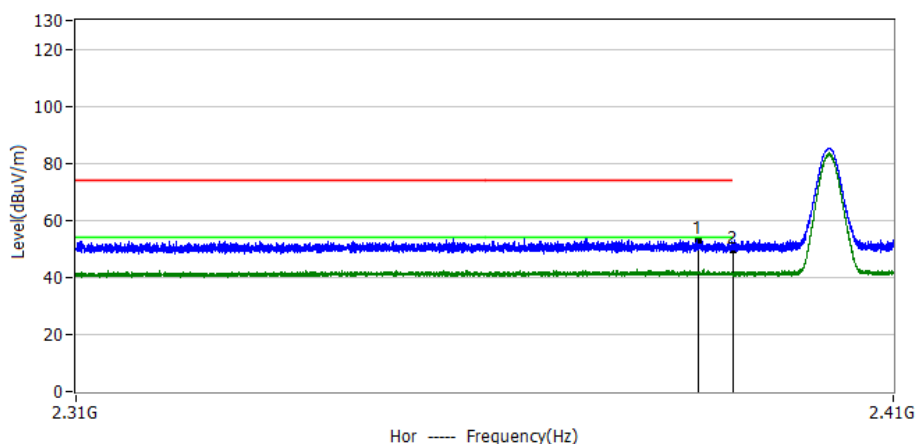
In frequency ranges above 18GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.



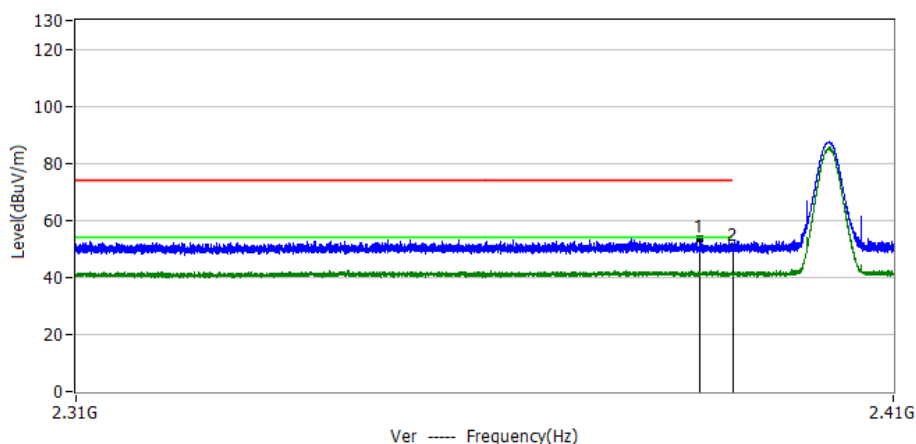
3.2.8 TEST RESULTS (Band edge Requirements)

Note:1. All mode has been tested, only shown the worst case data,
2. The peak value is less than the AV limit, so no AV data is displayed.

Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.6°C
M/N: 910-0509	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-20
Test Mode: 3DH5 2402	
Note:	



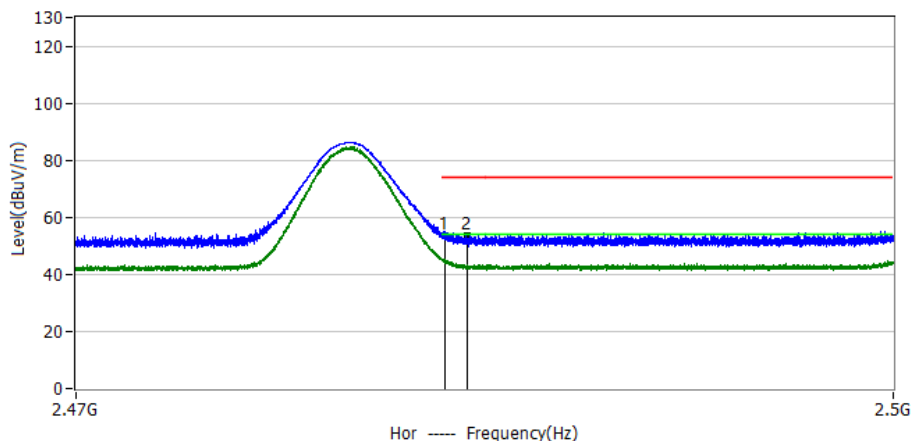
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2385.7000	16.59	36.44	53.03	74.00	-20.97	PK	Hor
2*	2390.0000	13.04	36.46	49.50	74.00	-24.50	PK	Hor
3*	2385.7000	16.59	36.44	53.03	54.00	-0.97	AV	Hor
4*	2390.0000	13.04	36.46	49.50	54.00	-4.50	AV	Hor



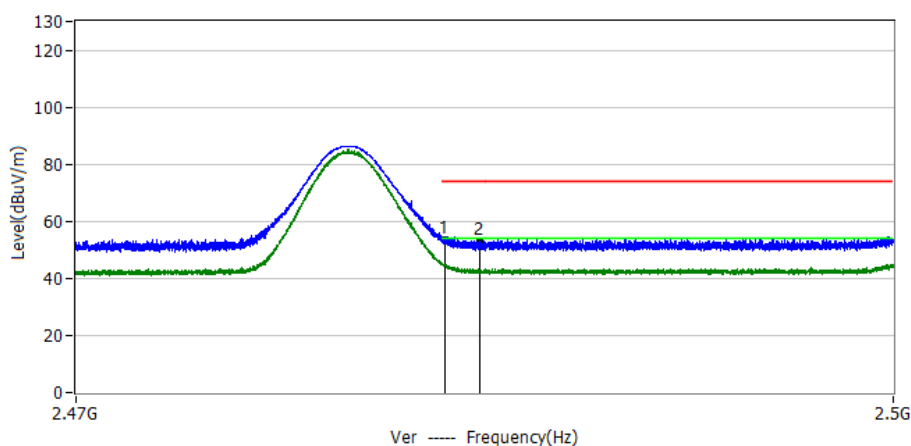
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2386.0000	17.05	36.44	53.49	74.00	-20.51	PK	Ver
2*	2390.0000	14.24	36.46	50.70	74.00	-23.30	PK	Ver
3*	2386.0000	17.05	36.44	53.49	54.00	-0.51	AV	Ver
4*	2390.0000	14.24	36.46	50.70	54.00	-3.30	AV	Ver



Project: LGT25G315	Test Engineer: LiuH
EUT: Oakford Pellet Grills	Temperature: 25.6°C
M/N: 910-0509	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-20
Test Mode: 3DH5 2480	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	16.20	37.20	53.40	74.00	-20.60	PK	Hor
2*	2484.3000	16.49	37.21	53.70	74.00	-20.30	PK	Hor
3*	2483.5000	16.20	37.20	53.40	54.00	-0.60	AV	Hor
4*	2484.3000	16.49	37.21	53.70	54.00	-0.30	AV	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	16.50	37.20	53.70	74.00	-20.30	PK	Ver
2*	2484.8000	16.09	37.21	53.30	74.00	-20.70	PK	Ver
3*	2483.5000	16.50	37.20	53.70	54.00	-0.30	AV	Ver
4*	2484.8000	16.09	37.21	53.30	54.00	-0.70	AV	Ver



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

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

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Hopping Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300– 2403 MHz Upper Band Edge: 2479 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold



4.3 TEST SETUP



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

4.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.5 TEST RESULTS

For the measurement records, refer to the appendix I.



5. NUMBER OF HOPPING CHANNEL

5.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥ 15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	300KHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 300KHz, VBW=300KHz, Sweep time = Auto.

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.5 TEST RESULTS

For the measurement records , refer to the appendix I.



6. AVERAGE TIME OF OCCUPANCY

6.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer.
- Duration of Single Pulse: Set RBW =910kHz/VBW =910kHz.
Dwell Time: Set RBW =100kHz/VBW =100kHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is $3.37 \times 31.6 = 106.6$.
DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is $5.06 \times 31.6 = 160$.
DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is $10.12 \times 31.6 = 320$.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.5 TEST RESULTS

For the measurement records, refer to the appendix I.



7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 LIMIT

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 20 dB Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
VB	91 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- The resolution bandwidth of 30 kHz and the video bandwidth of 91 kHz were utilised for 20 dB bandwidth measurement.
- The resolution bandwidth of 300 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.5 TEST RESULTS

For the measurement records, refer to the appendix I.



8. BANDWIDTH TEST

8.1 LIMIT

FCC Part15 15.247, Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)	Bandwidth	N/A	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
VB	91 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 30KHz, VBW=91KHz, Sweep time = Auto.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

8.5 TEST RESULTS

For the measurement records, refer to the appendix I.



9. OUTPUT POWER TEST

9.1 LIMIT

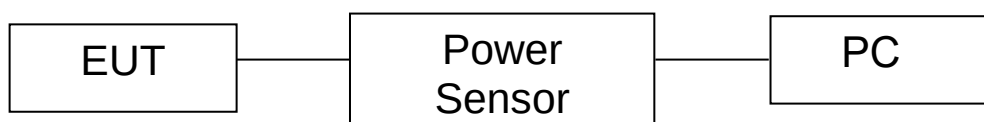
FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)&(b)(1)	Output Power	1 W or 0.125W	2400-2483.5	PASS
		if channel separation > 2/3 bandwidth provided the systems operate with an output power no greater than 125 mW (20.97dBm)		

9.2 TEST PROCEDURE

PKPM1 Peak power meter method:

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

9.3 TEST SETUP



9.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

9.5 TEST RESULTS

For the measurement records, refer to the appendix I.



10. DUTY CYCLE

10.1 STANDARD REQUIREMENT

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternate procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle. Within this guidance document, the duty cycle refers to the fraction of time over which the transmitter is on and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$, otherwise the duty cycle is considered to be non-constant.

The term “maximum power control level” is intended to distinguish between operating power levels of the EUT and differences in power levels of individual symbols that occur with some modulation types such as quadrature amplitude modulation (QAM). During testing, the EUT is not required to transmit continuously at its highest possible symbol power level. Rather, it should transmit all of the symbols and should do so at the highest power control level (*i.e.*, highest operating power level) of the EUT.

10.2 TEST PROCEDURE

Measurements of duty cycle and transmission duration shall be performed using below techniques: The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on- and off-times of the transmitted signal.

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Span=0Hz
- 3) Set RBW = 8MHz.
- 4) Set VBW = 8MHz.
- 5) Set detector = peak.
- 6) Trace mode = clear write.

10.3 DEVIATION FROM STANDARD

No deviation.

10.4 TEST SETUP



10.5 TEST RESULTS

For the measurement records, refer to the appendix I.



11. ANTENNA REQUIREMENT

11.1 STANDARD REQUIREMENT

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

11.2 EUT ANTENNA

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



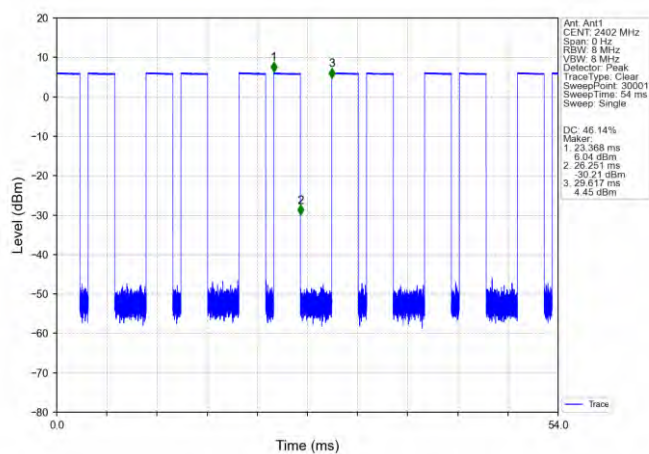
APPENDIX I - TEST RESULTS

Duty Cycle

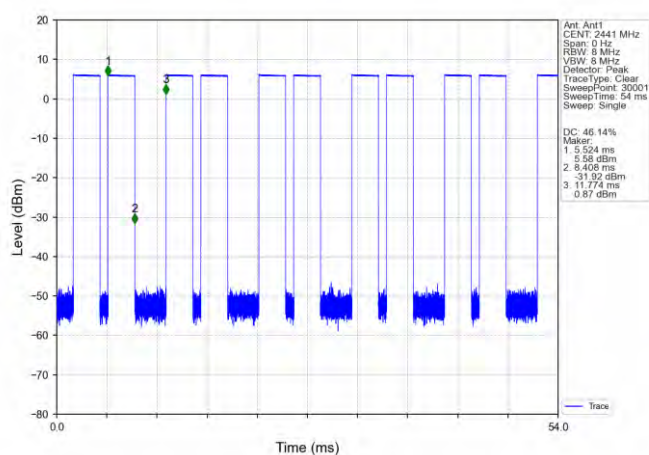
Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.883	6.249	46.14	3.36	30.83
		2441	DH5	2.884	6.250	46.14	3.36	30.83
		2480	DH5	2.883	6.249	46.14	3.36	30.83
Pi/4DQPSK	SISO	2402	2DH5	2.894	6.251	46.30	3.34	30.92
		2441	2DH5	2.895	6.252	46.31	3.34	30.92
		2480	2DH5	2.893	6.250	46.29	3.35	30.93
8DPSK	SISO	2402	3DH5	2.897	6.252	46.34	3.34	30.95
		2441	3DH5	2.896	6.251	46.33	3.34	30.95
		2480	3DH5	2.895	6.250	46.32	3.34	30.95



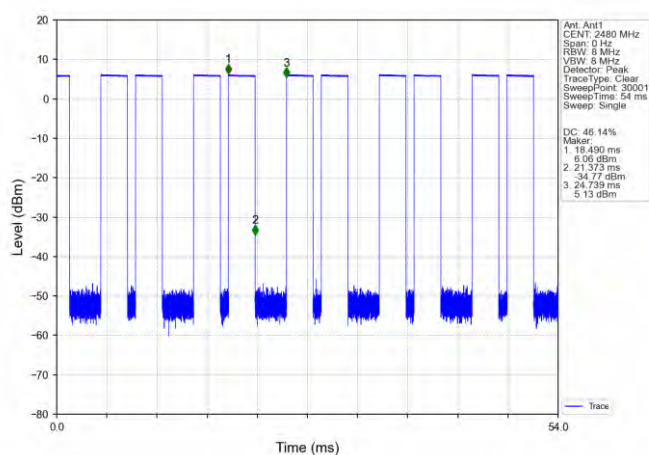
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

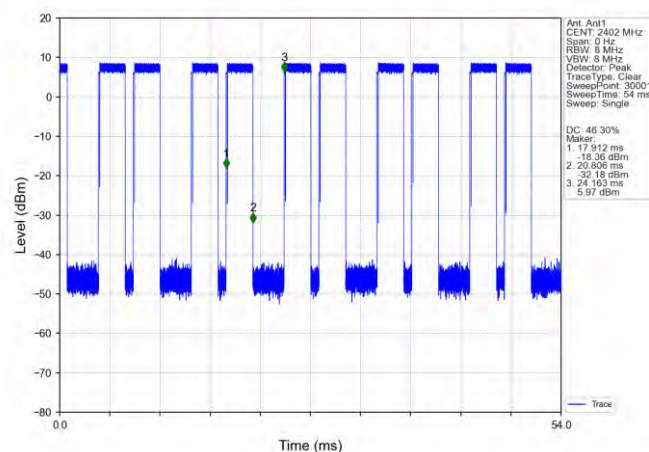


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

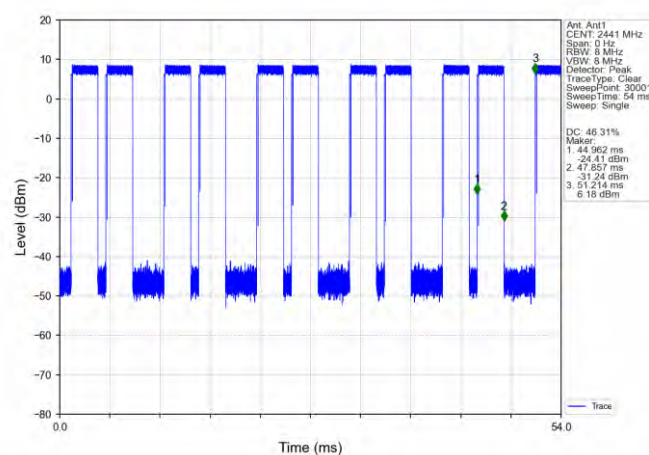




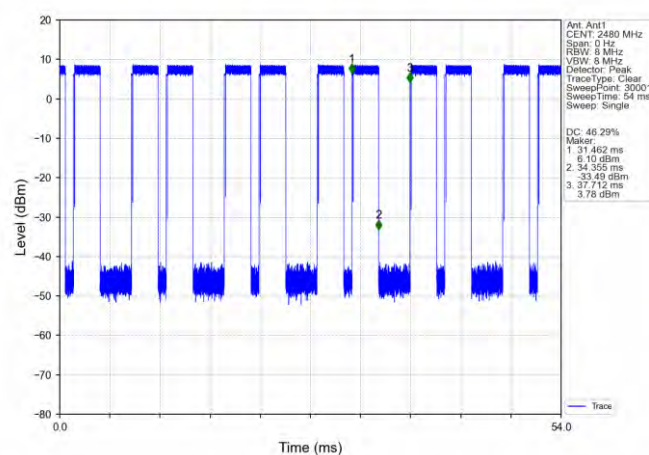
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

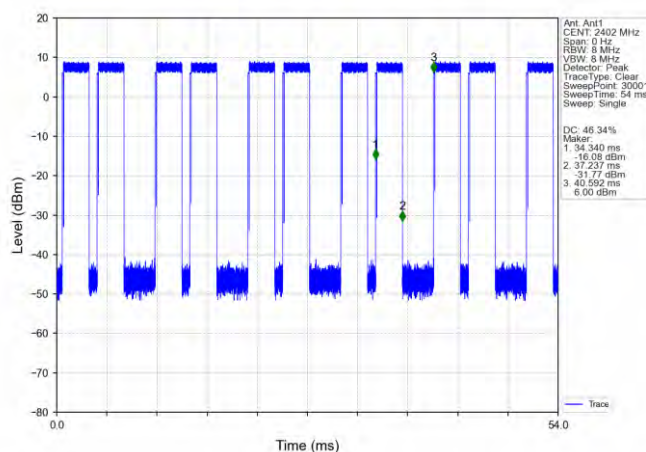


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

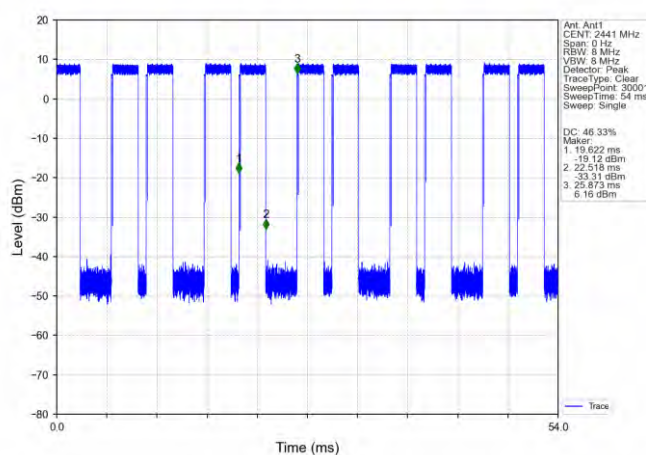




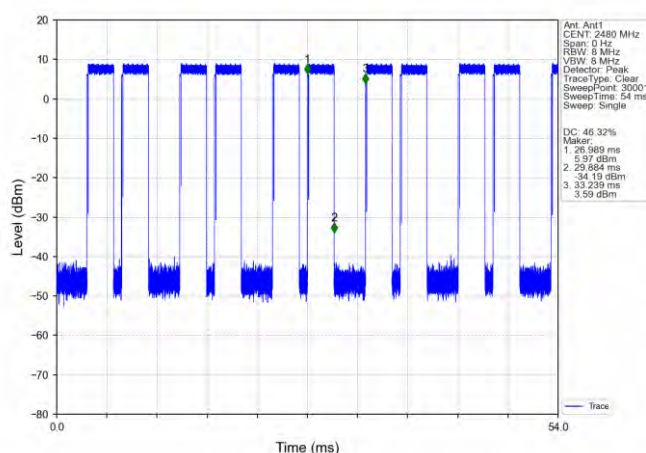
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





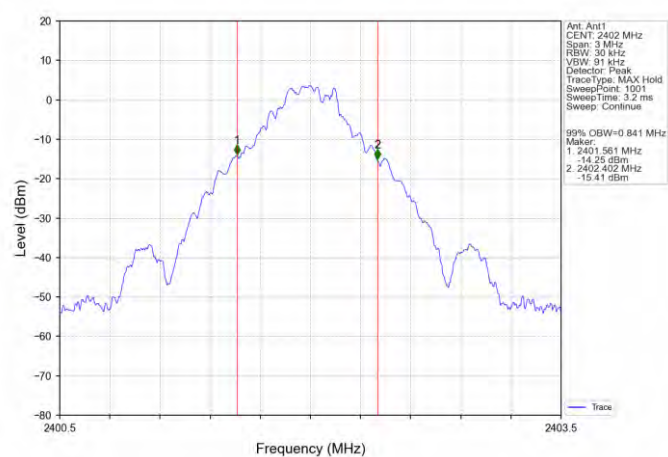
Bandwidth

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.841	/	Pass
		2441	DH5	1	0.840	/	Pass
		2480	DH5	1	0.838	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.184	/	Pass
		2441	2DH5	1	1.182	/	Pass
		2480	2DH5	1	1.180	/	Pass
8DPSK	SISO	2402	3DH5	1	1.182	/	Pass
		2441	3DH5	1	1.183	/	Pass
		2480	3DH5	1	1.184	/	Pass

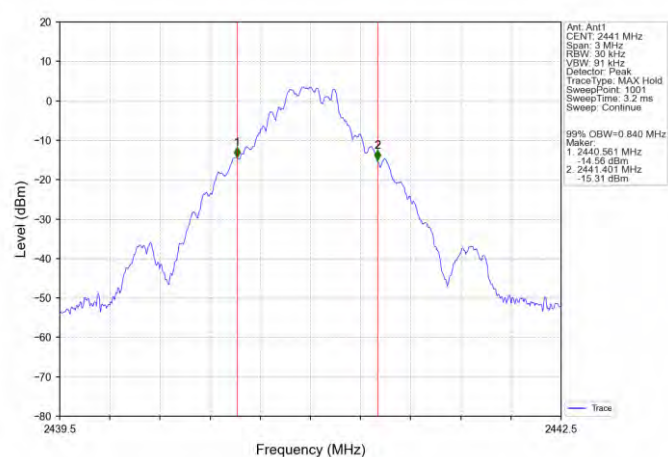
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.950	/	Pass
		2441	DH5	1	0.947	/	Pass
		2480	DH5	1	0.946	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.325	/	Pass
		2441	2DH5	1	1.319	/	Pass
		2480	2DH5	1	1.320	/	Pass
8DPSK	SISO	2402	3DH5	1	1.310	/	Pass
		2441	3DH5	1	1.313	/	Pass
		2480	3DH5	1	1.312	/	Pass



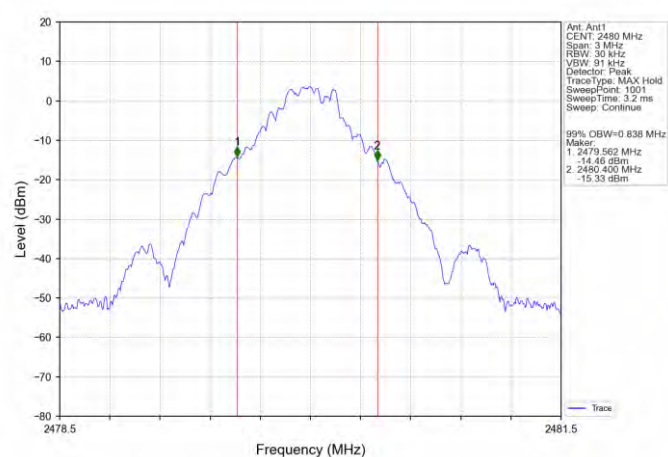
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV

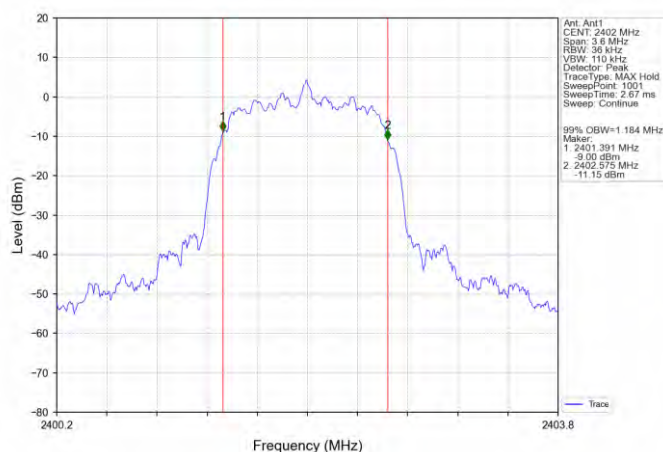


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

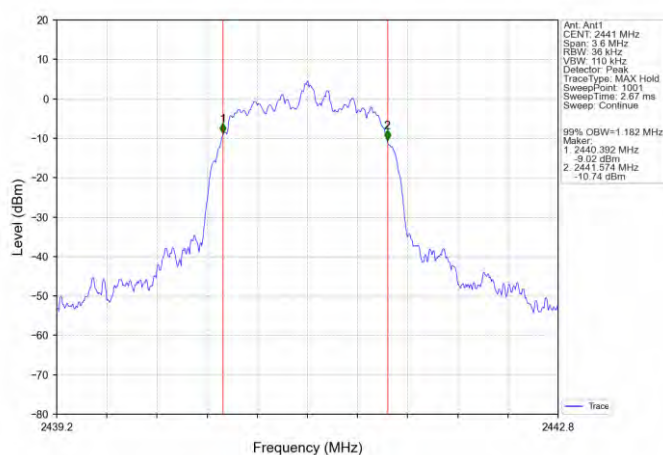




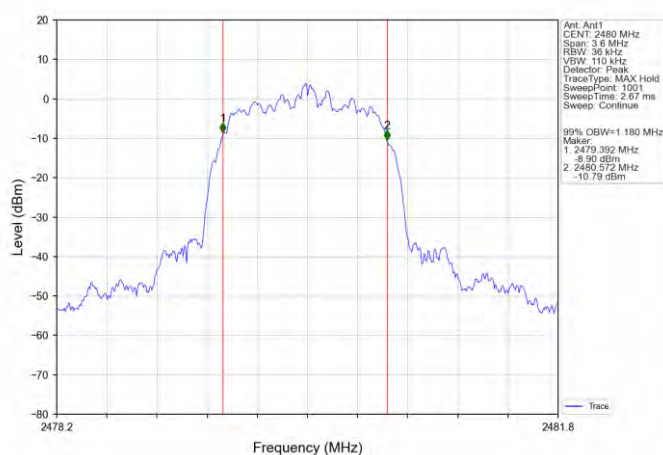
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

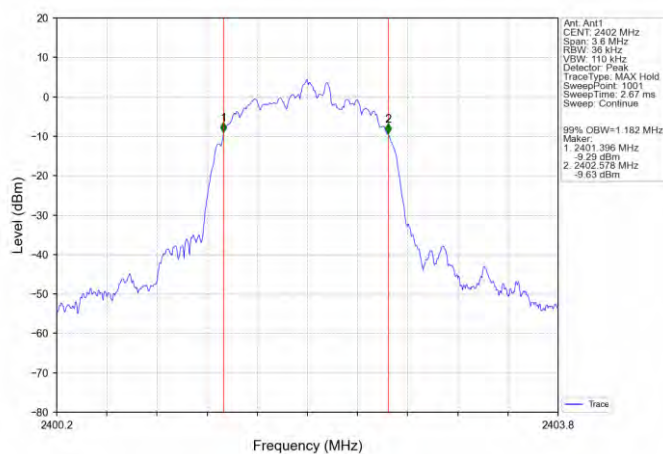


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

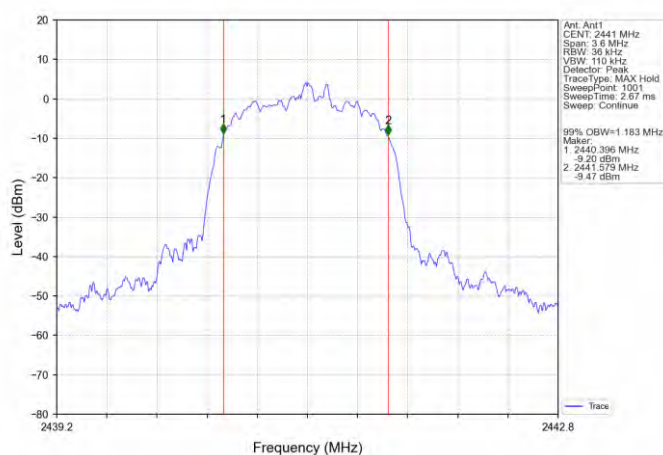




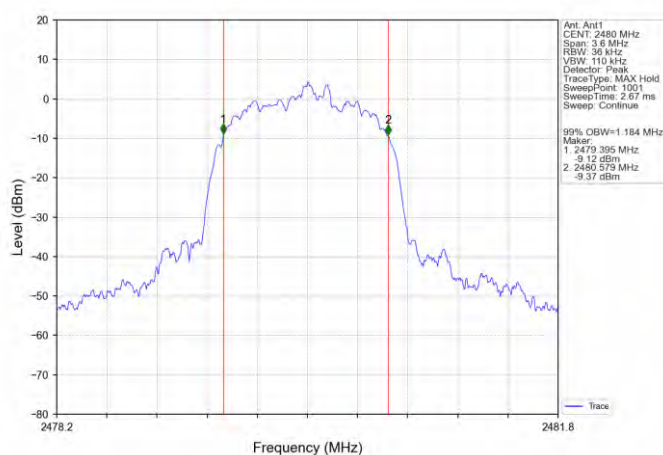
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

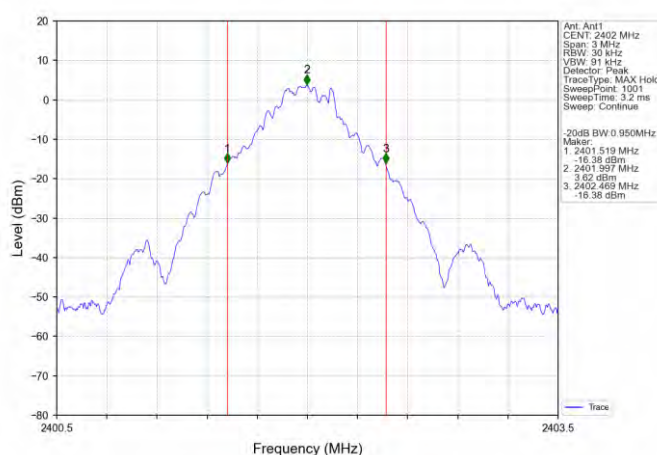


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

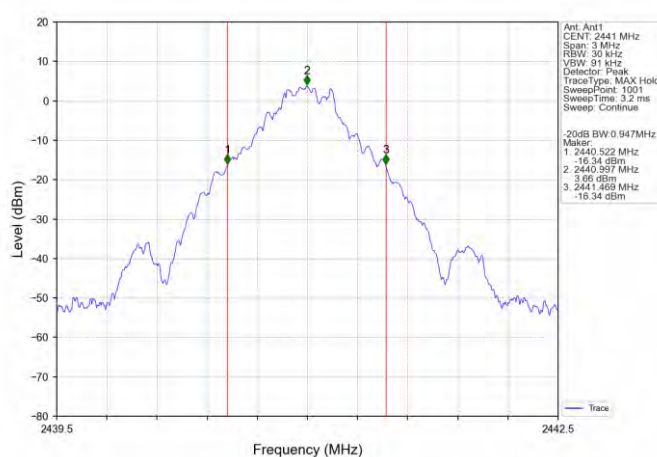




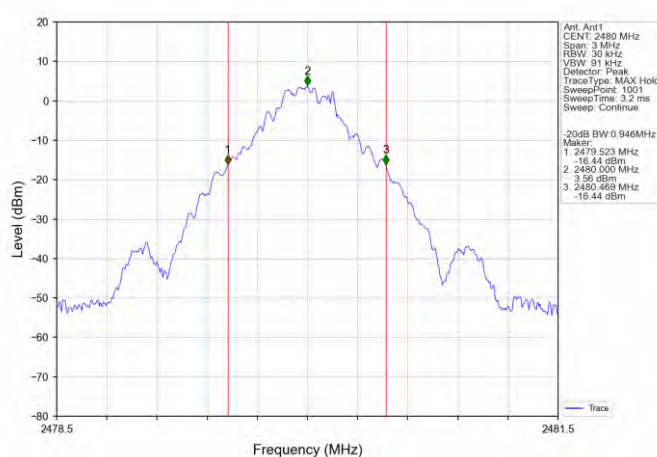
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV

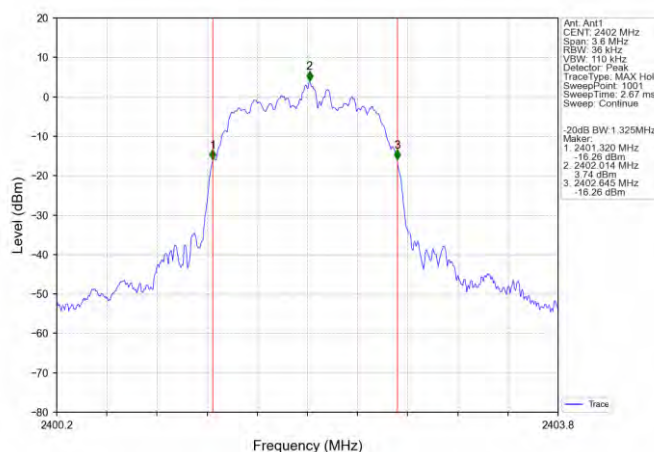


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

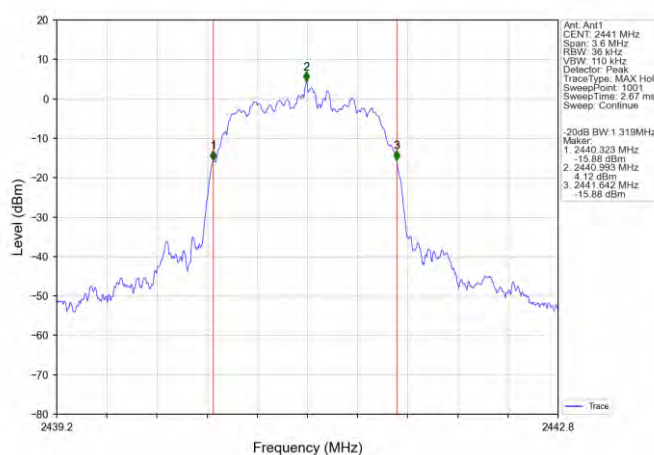




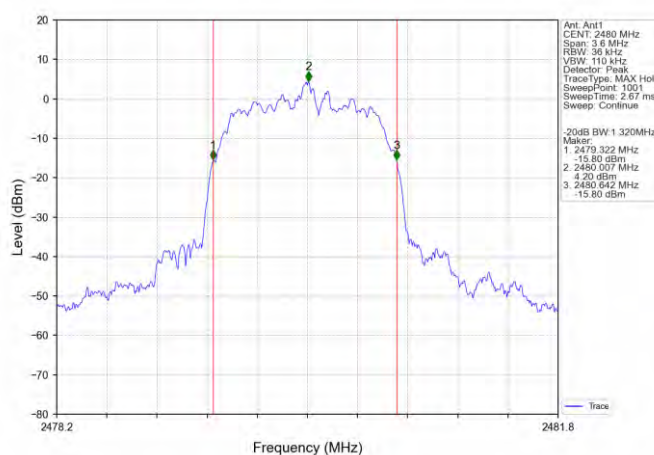
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

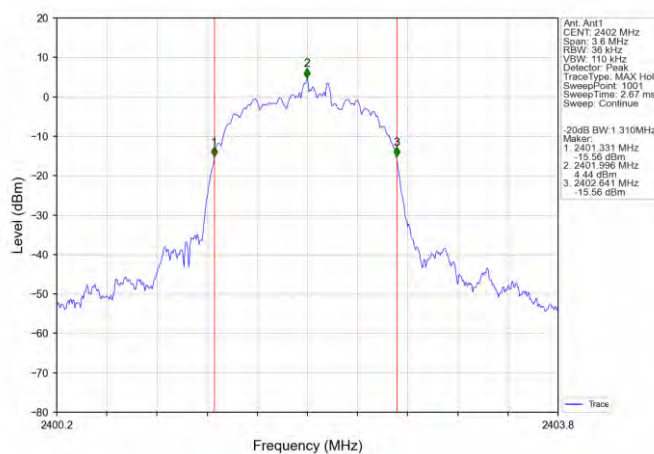


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

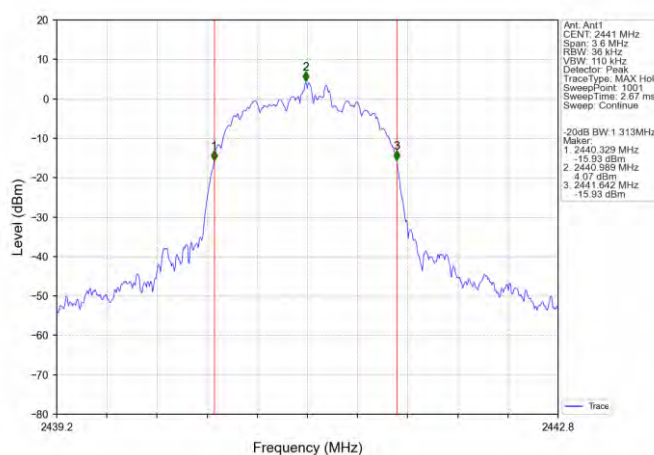




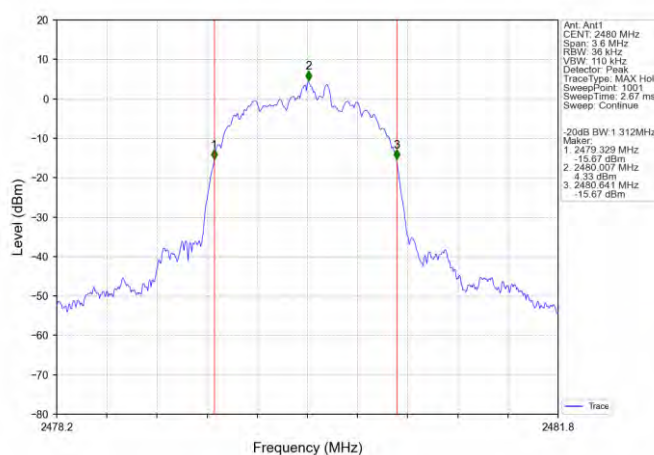
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





Maximum Conducted Output Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	6.06	<=30	Pass
		2441	DH5	6.13	<=30	Pass
		2480	DH5	6.18	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	8.39	<=30	Pass
		2441	2DH5	8.51	<=30	Pass
		2480	2DH5	8.52	<=30	Pass
8DPSK	SISO	2402	3DH5	8.79	<=30	Pass
		2441	3DH5	8.86	<=30	Pass
		2480	3DH5	8.92	<=30	Pass

Note1: Antenna Gain: Ant1: 2.67dBi;

Mode	TX Type	Frequency (MHz)	Packet Type	E.I.R.P (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	8.73	<=36.02	Pass
		2441	DH5	8.80	<=36.02	Pass
		2480	DH5	8.85	<=36.02	Pass
Pi/4DQPSK	SISO	2402	2DH5	11.06	<=36.02	Pass
		2441	2DH5	11.18	<=36.02	Pass
		2480	2DH5	11.19	<=36.02	Pass
8DPSK	SISO	2402	3DH5	11.46	<=36.02	Pass
		2441	3DH5	11.53	<=36.02	Pass
		2480	3DH5	11.59	<=36.02	Pass
Note1: Antenna Gain: Ant1: 2.67dBi;						
Note2: E.I.R.P = Measured Power + Antenna Gain						

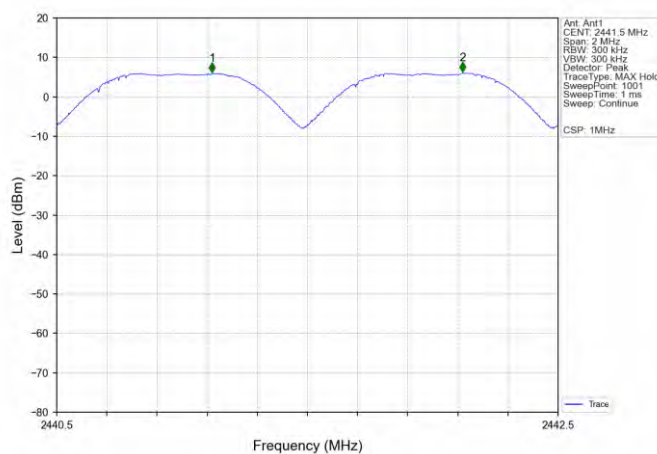


Carrier Frequency Separation

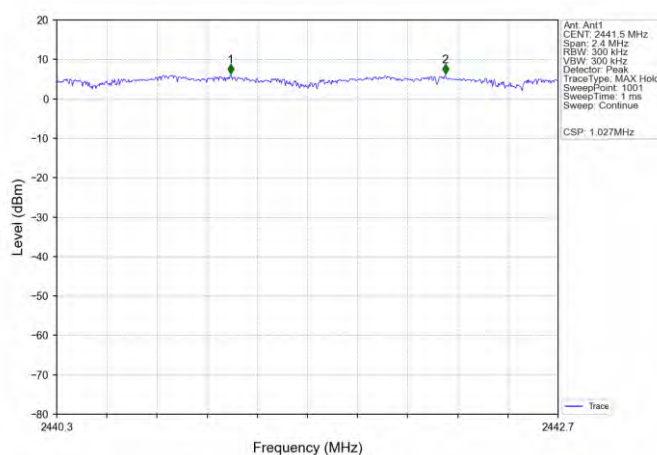
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.950	≥ 0.95	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.027	1.325	≥ 0.883	Pass
8DPSK	SISO	HOPP	3DH5	1.006	1.313	≥ 0.875	Pass



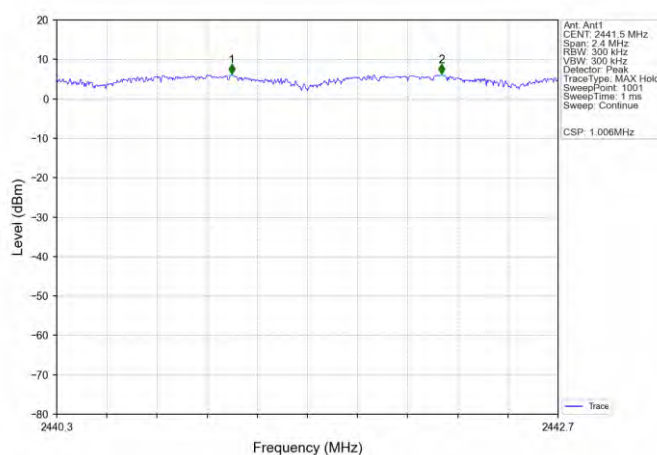
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



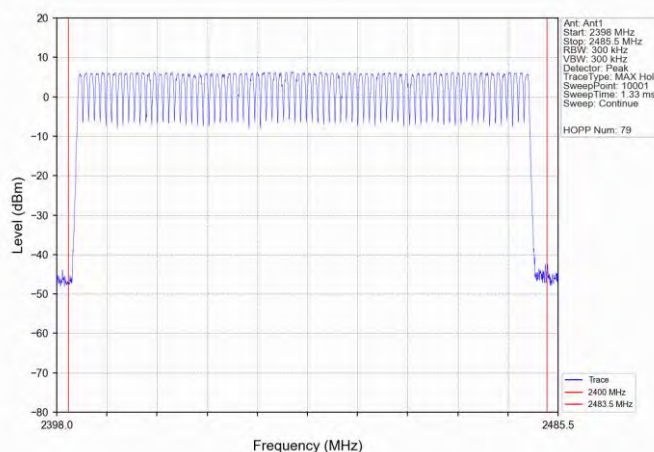


Number of Hopping Frequencies

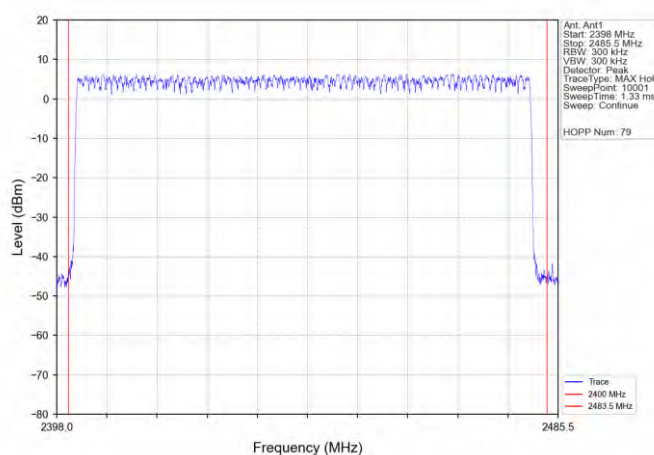
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass



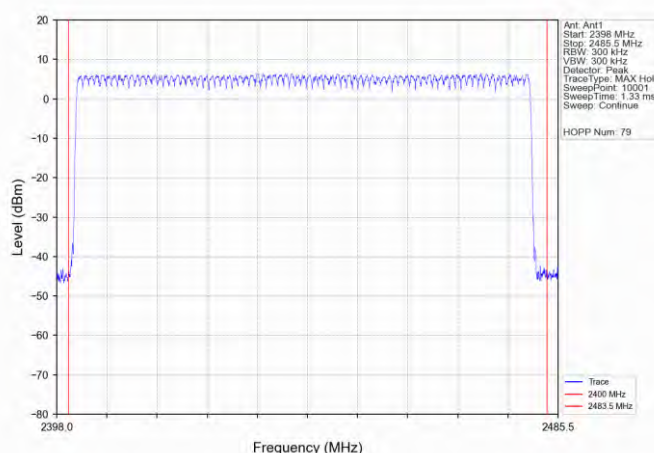
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



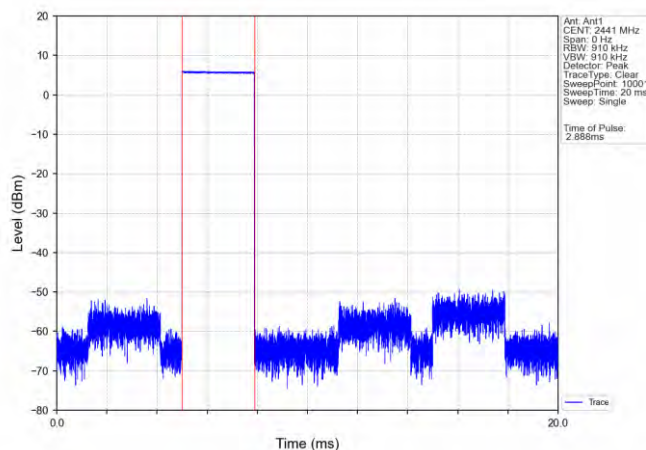


Time of Occupancy (Dwell Time)

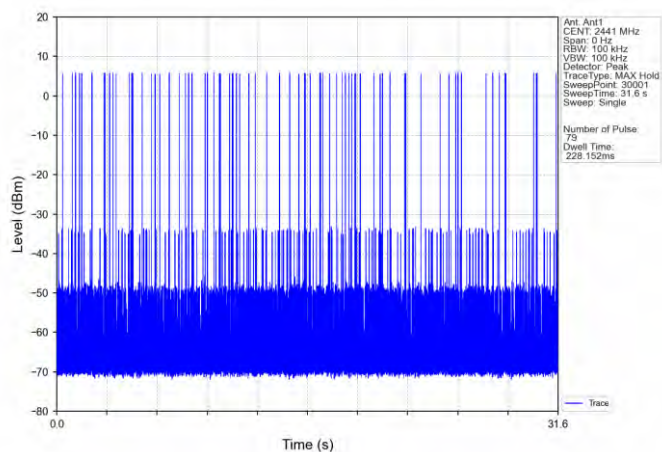
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH5	2.888	31.600	79	228.152	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	2.896	31.600	71	205.616	<=400	Pass
8DPSK	SISO	HOPP	3DH5	2.900	31.600	89	258.100	<=400	Pass



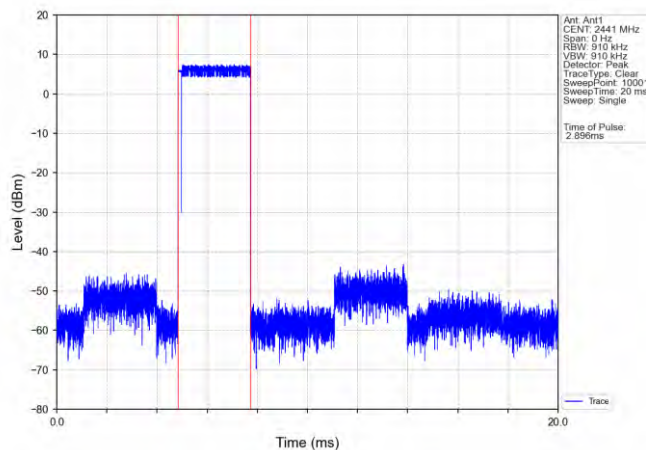
GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV

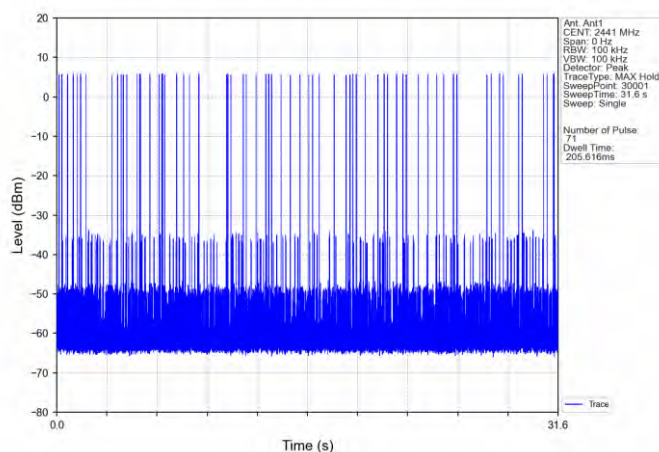


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

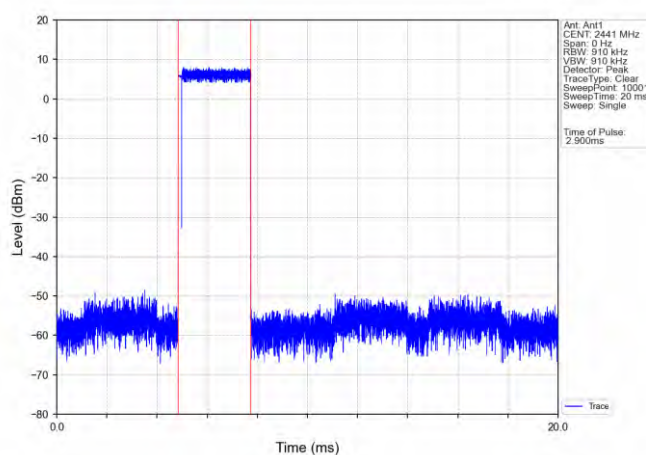




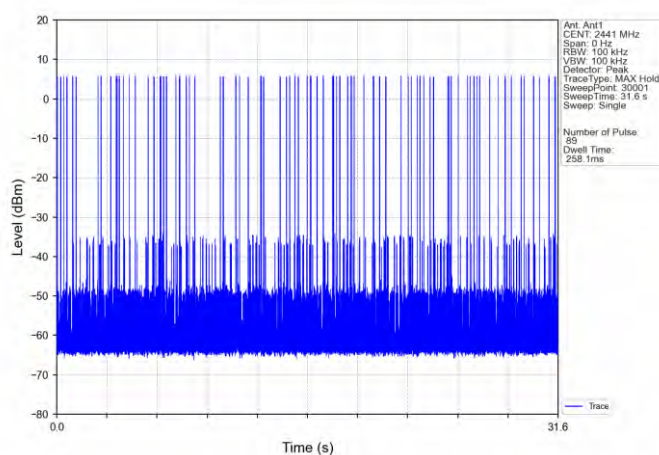
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





Unwanted Emissions In Non-restricted Frequency Bands

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	5.84
		2441	DH5	1	5.93
		2480	DH5	1	5.93
		HOPP	DH5	1	6.22
					6.22
Pi/4DQPSK	SISO	2402	2DH5	1	5.87
		2441	2DH5	1	6.13
		2480	2DH5	1	5.87
		HOPP	2DH5	1	6.09
					6.09
8DPSK	SISO	2402	3DH5	1	5.93
		2441	3DH5	1	6.01
		2480	3DH5	1	5.93
		HOPP	3DH5	1	6.12
					6.12

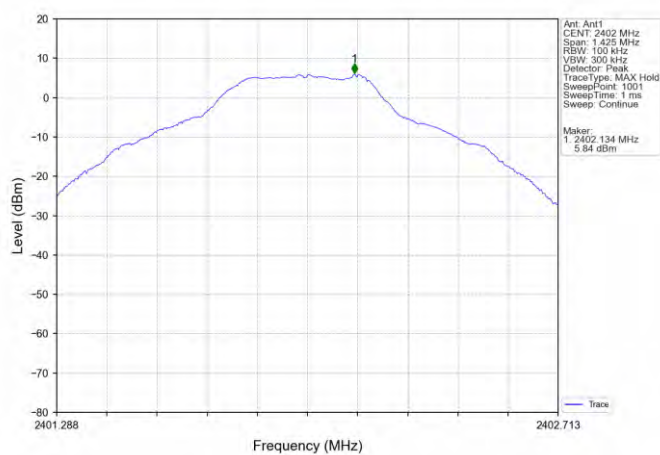
Note1: Refer to ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	5.84	-14.16	Pass
		2441	DH5	1	5.93	-14.07	Pass
		2480	DH5	1	5.93	-14.07	Pass
		HOPP	DH5	1	6.22	-13.78	Pass
					6.22	-13.78	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	5.87	-14.13	Pass
		2441	2DH5	1	6.13	-13.87	Pass
		2480	2DH5	1	5.87	-14.13	Pass
		HOPP	2DH5	1	6.09	-13.91	Pass
					6.09	-13.91	Pass
8DPSK	SISO	2402	3DH5	1	5.93	-14.07	Pass
		2441	3DH5	1	6.01	-13.99	Pass
		2480	3DH5	1	5.93	-14.07	Pass
		HOPP	3DH5	1	6.12	-13.88	Pass
					6.12	-13.88	Pass

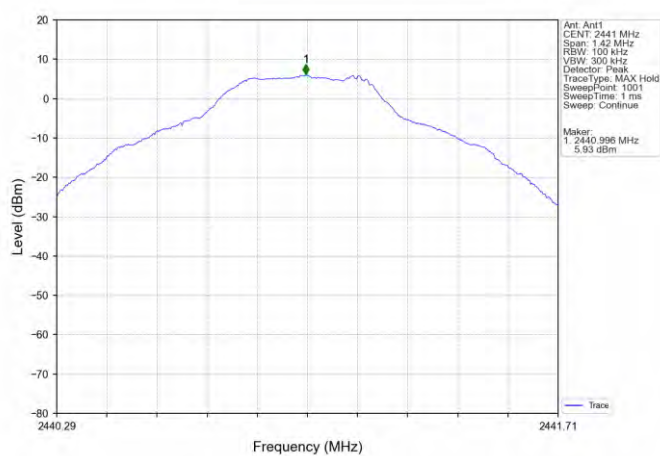
Note1: Refer to ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.



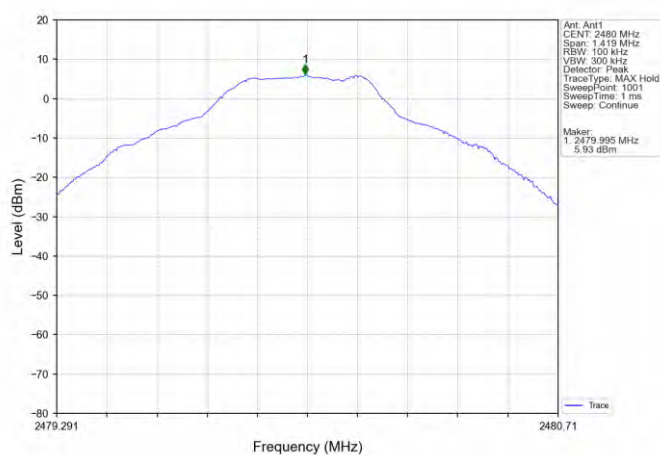
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

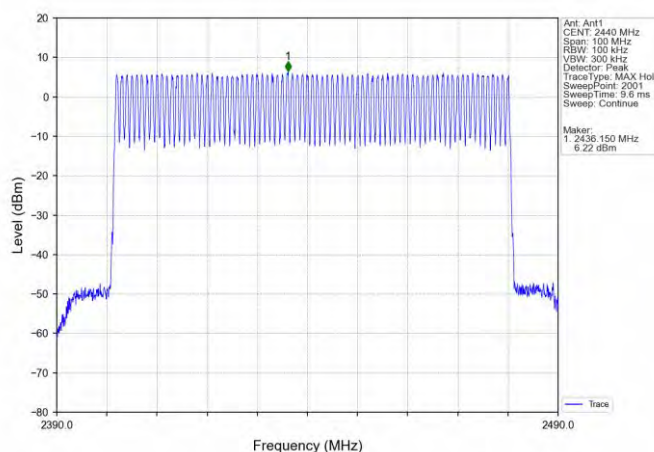


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

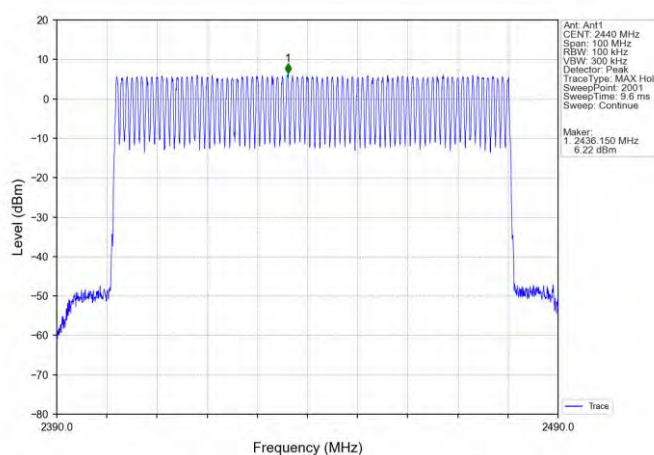




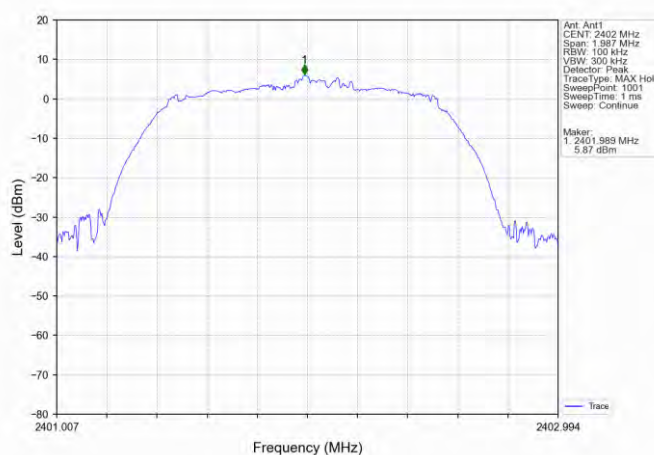
GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV

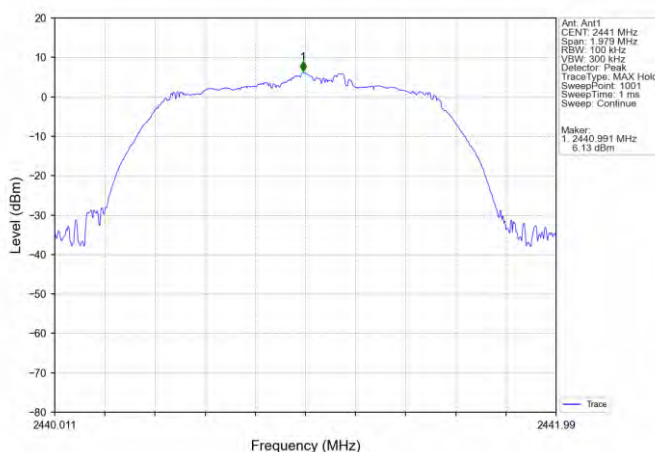


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

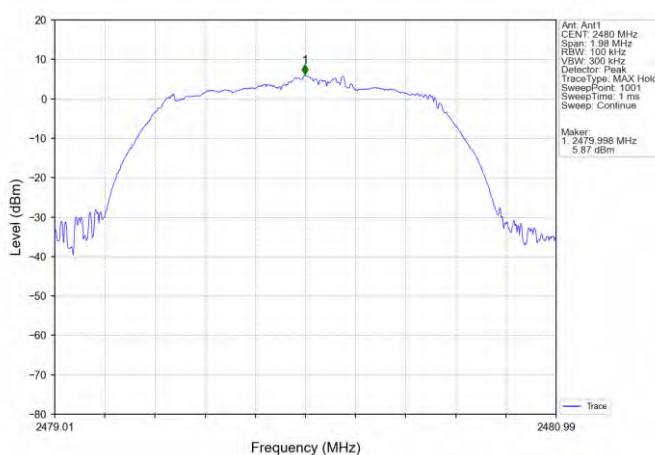




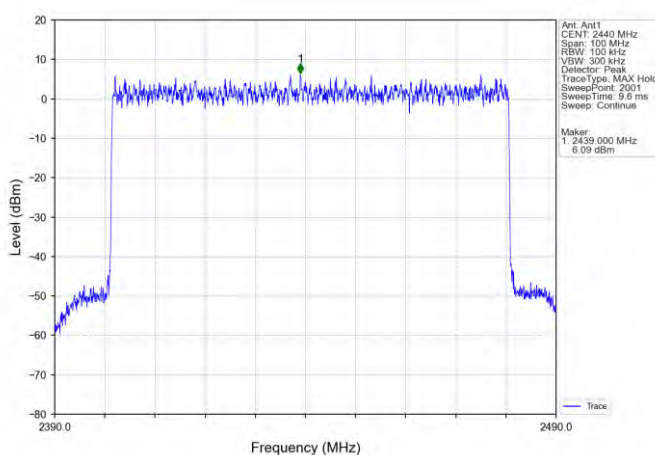
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

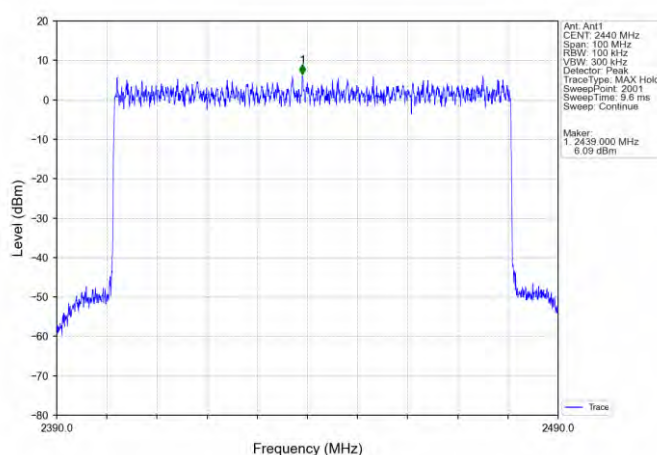


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

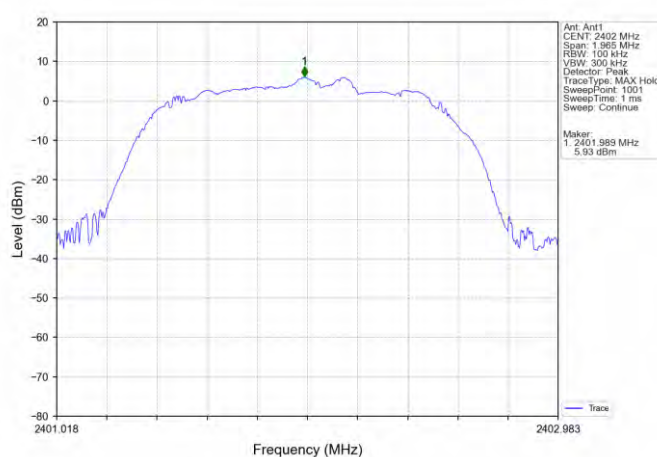




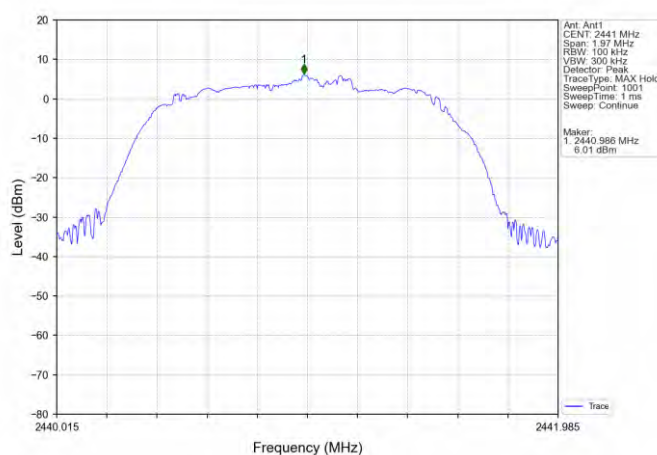
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

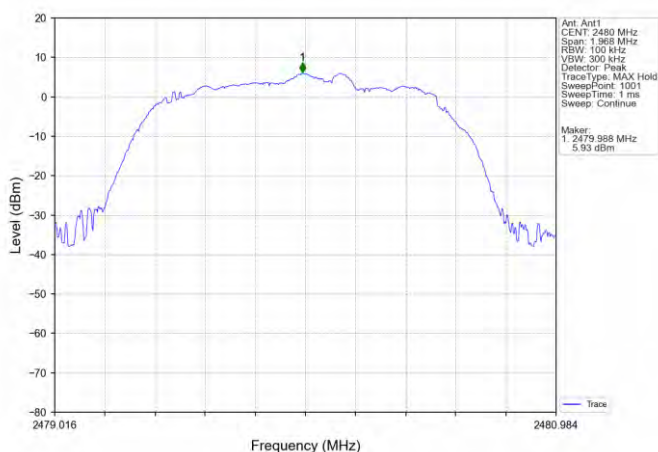


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

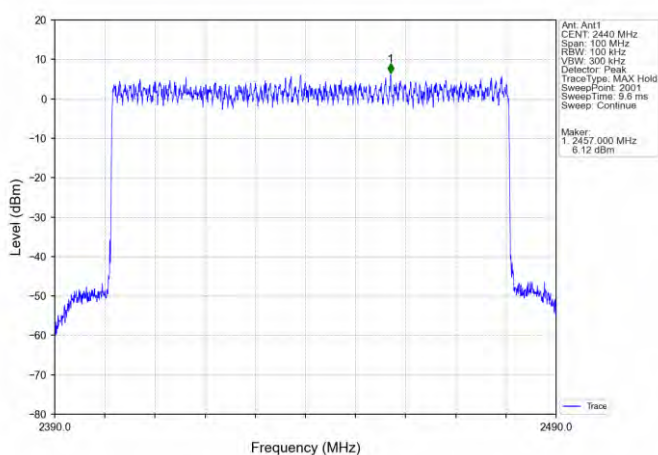




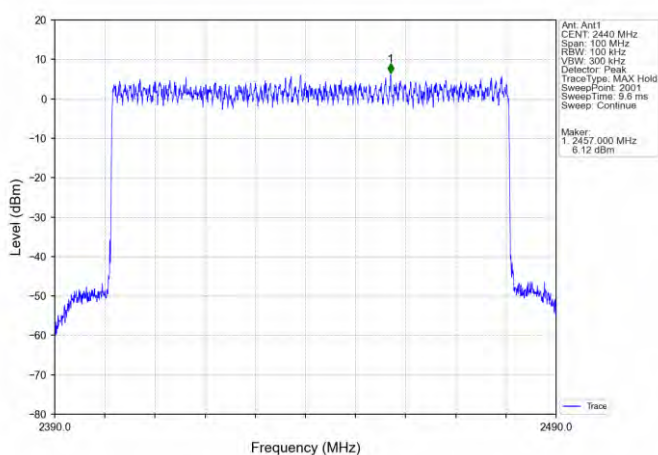
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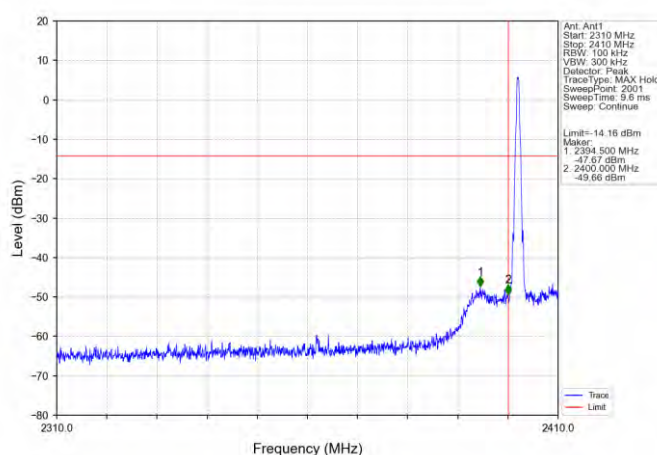


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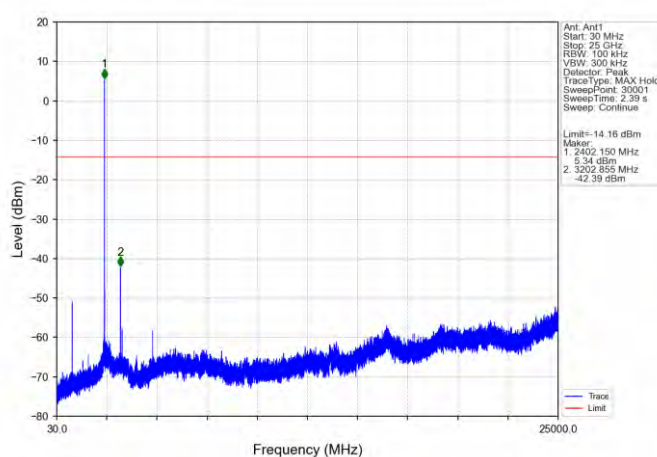




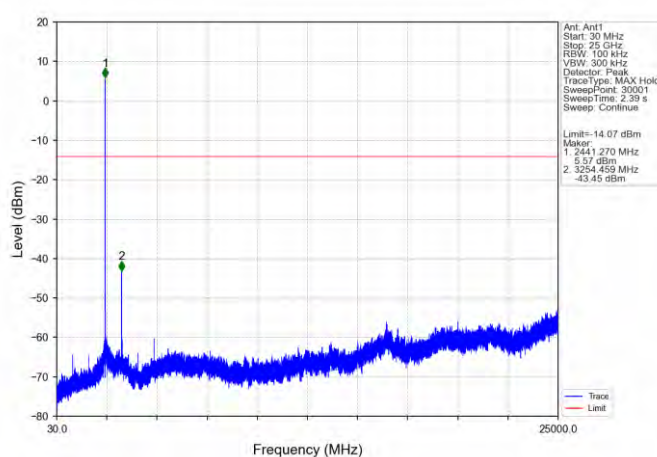
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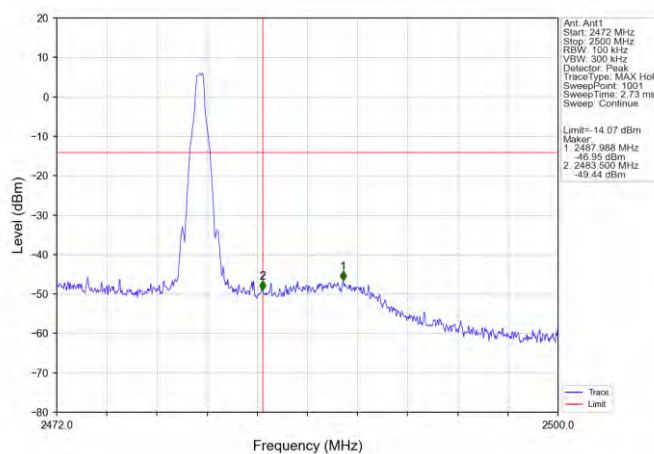


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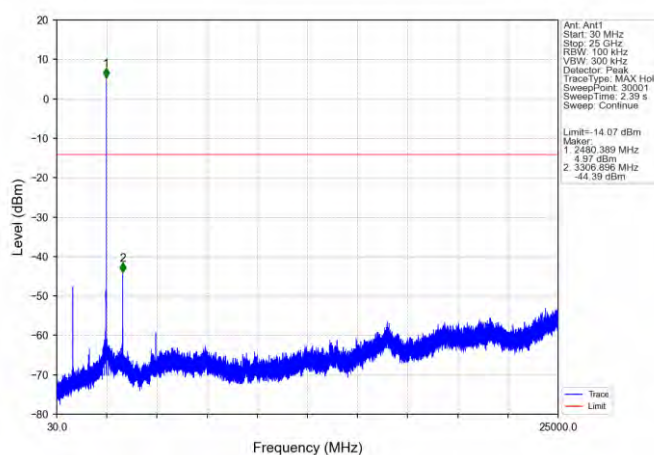




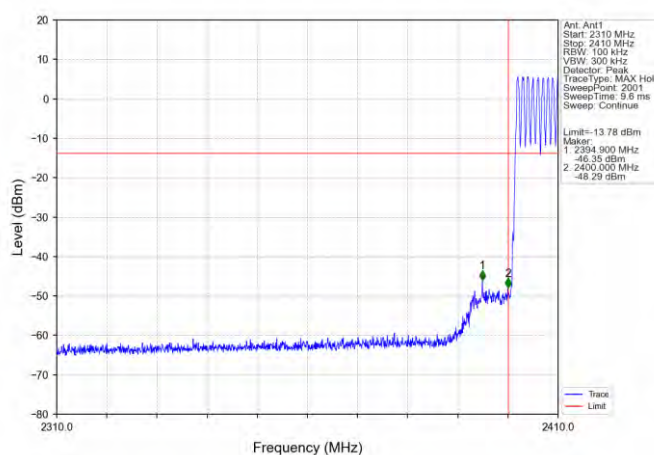
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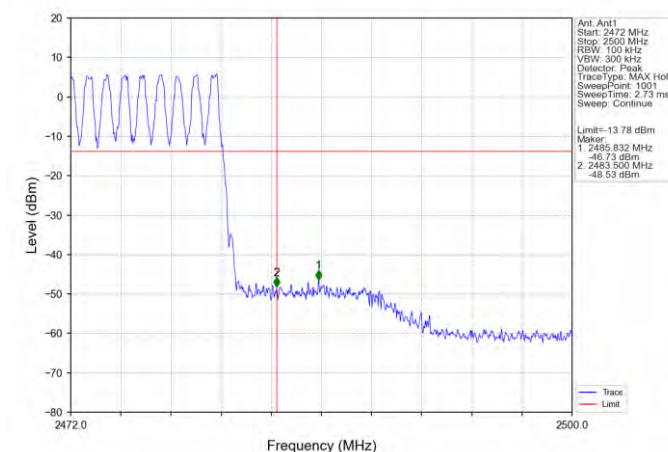


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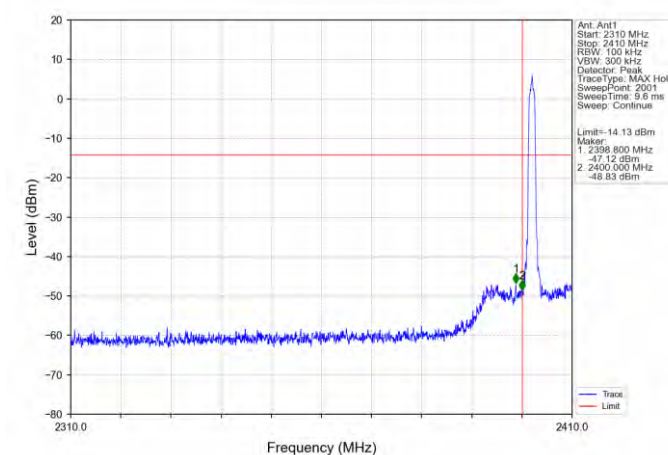




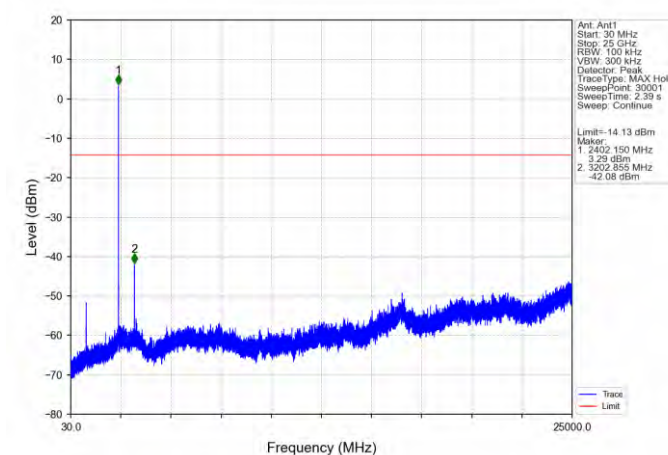
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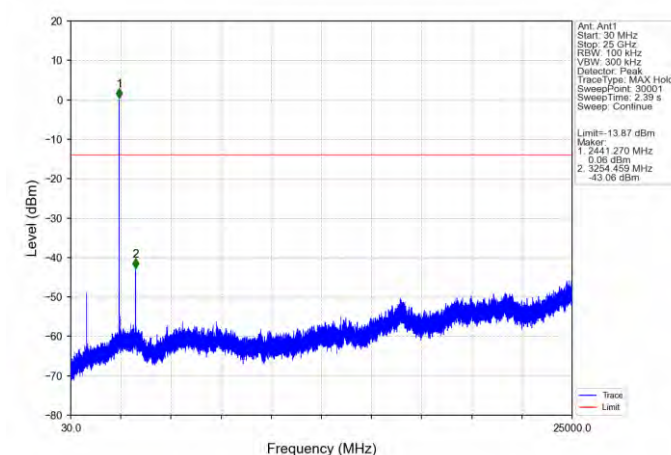


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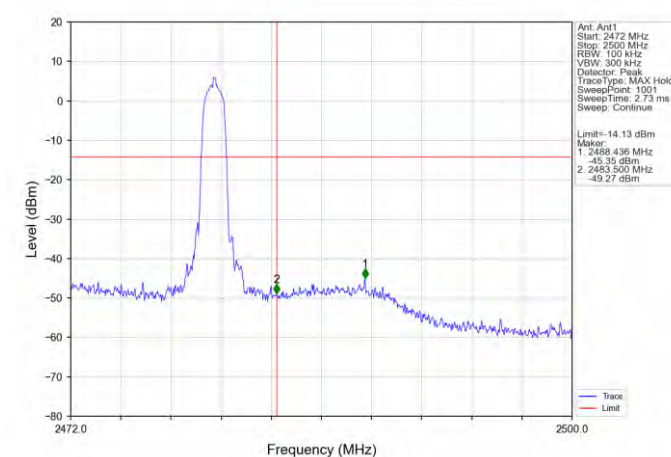




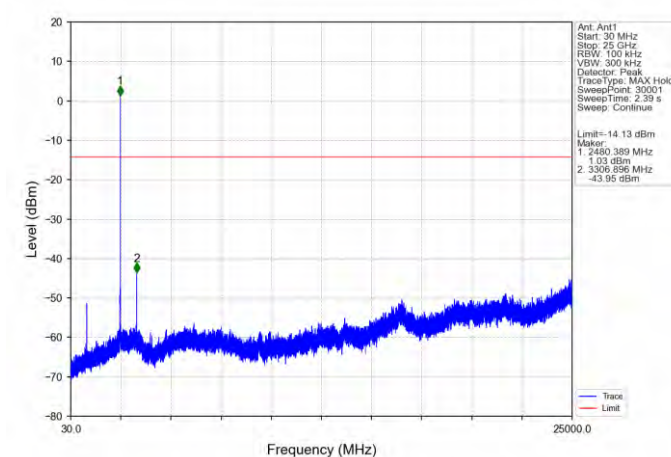
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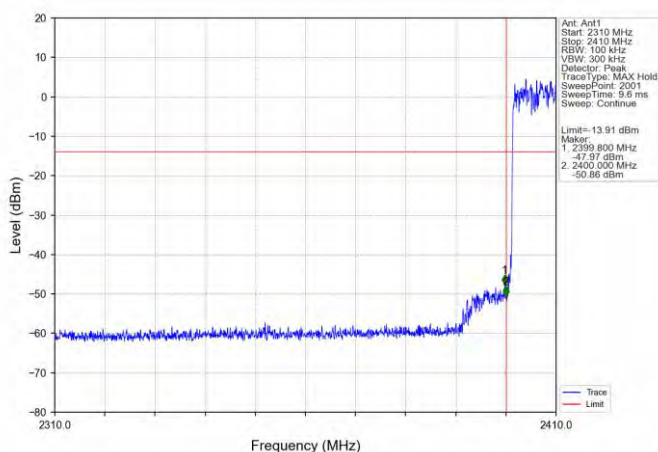


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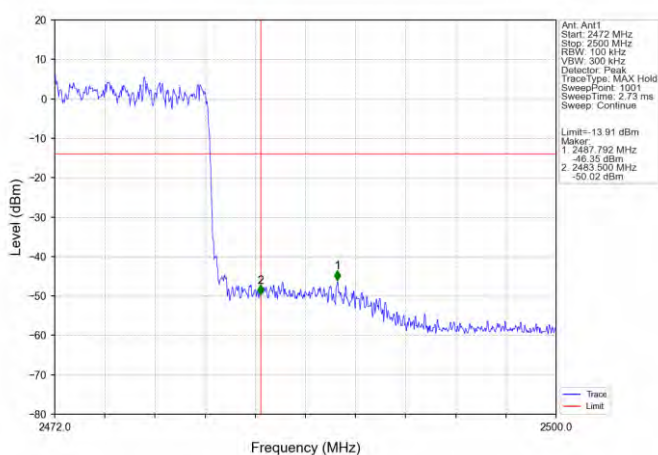




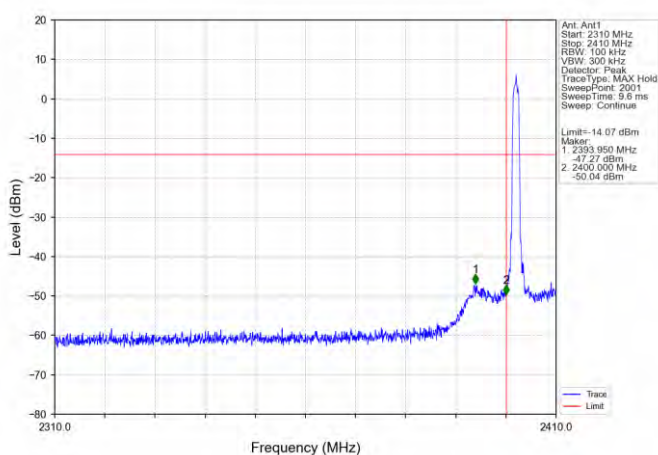
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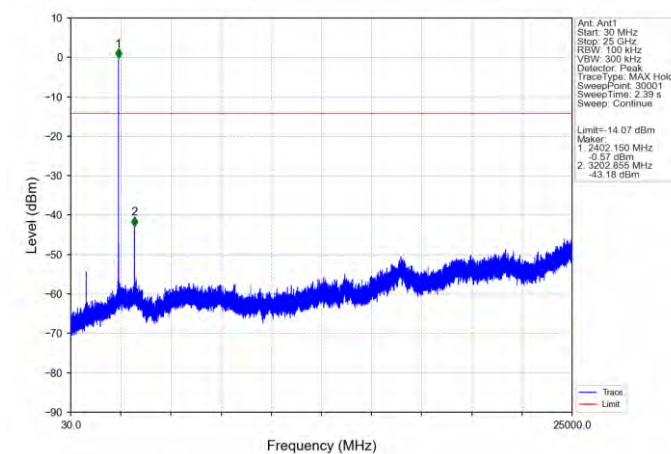


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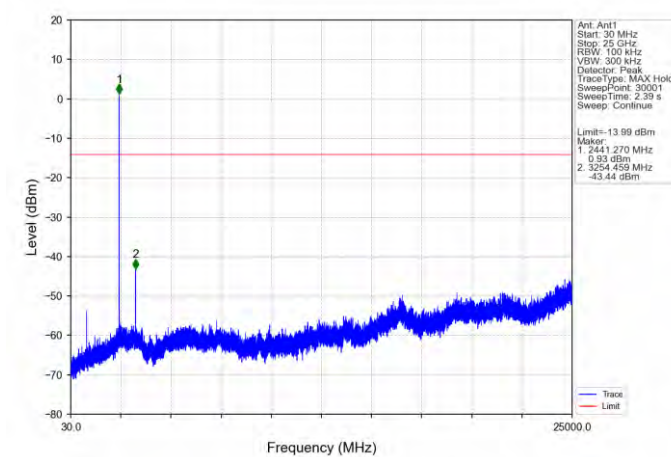




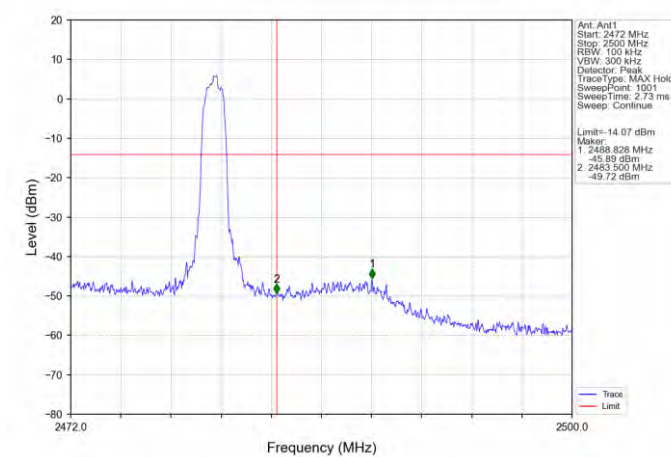
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

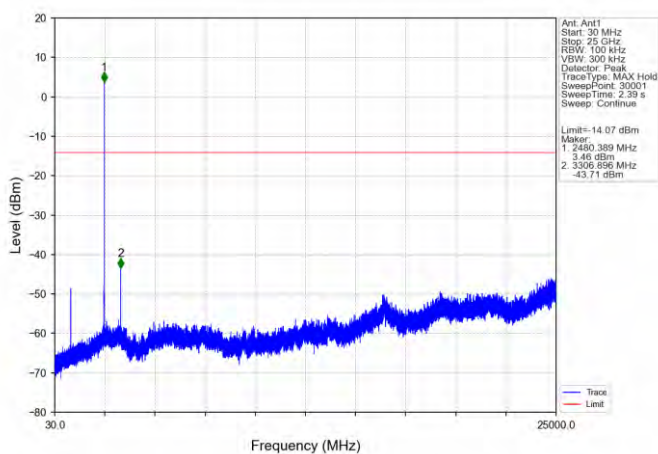


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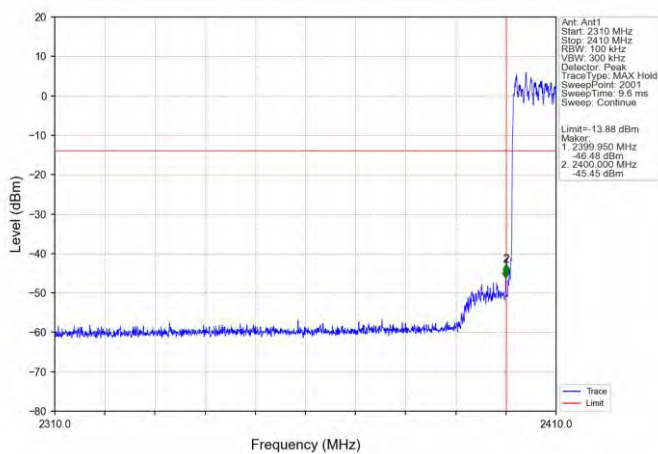




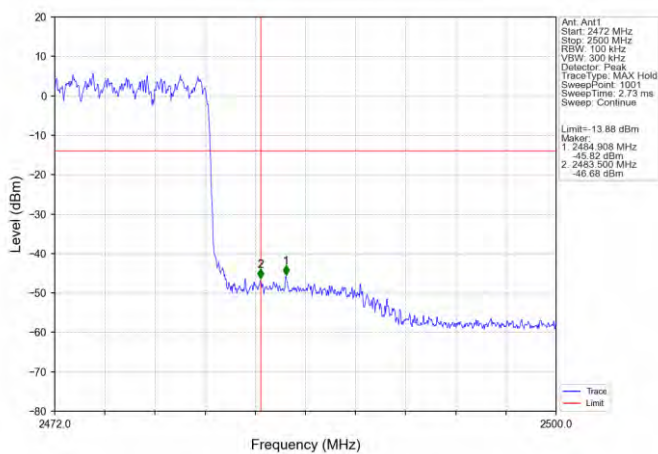
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





APPENDIX II - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID & IC.

※※※※※END OF THE REPORT※※※※※