

TEST REPORT

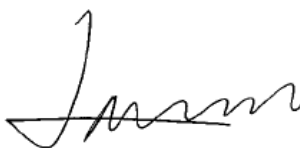
Applicant	Clarion Co., Ltd.
Address	6F, No. 40, Guanri Road, Software Park Stage II, Xiamen, China

Manufacturer or Supplier	Clarion Co., Ltd.
Address	6F, No. 40, Guanri Road, Software Park Stage II, Xiamen, China
Product	CAR NAVIGATION
Brand Name	CLARION
Model	QY-8650
Additional Model & Model Difference	QY-8600, QY-8601, QY-8651; See items 3.1
Date of tests	Aug. 05, 2016 ~ Aug. 25, 2016

the tests have been carried out according to the requirements of the following standards:

☒ **FCC Part 15, Subpart C, Section 15.247**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Madison Luo Supervisor / EMC Department	Approved by Glyn He Supervisor / EMC Department
	
	Date: Sep. 07, 2016

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS	5
2 MEASUREMENT UNCERTAINTY	5
3 GENERAL INFORMATION	6
3.1 GENERAL DESCRIPTION OF EUT	6
3.2 DESCRIPTION OF TEST MODES	7
3.2.1. CONFIGURATION OF SYSTEM UNDER TEST	8
3.2.2. TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	8
3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS	10
3.4 DESCRIPTION OF SUPPORT UNITS.....	10
4 TEST TYPES AND RESULTS	11
4.1. RADIATED EMISSION AND BANDEDGE MEASUREMENT	11
4.1.1. LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT	11
4.1.2. TEST INSTRUMENTS.....	12
4.1.3. TEST PROCEDURES	13
4.1.4. DEVIATION FROM TEST STANDARD	14
4.1.5. TEST SETUP	14
4.1.6. EUT OPERATING CONDITIONS.....	14
4.1.7. TEST RESULTS	15
4.2. NUMBER OF HOPPING FREQUENCY USED.....	23
4.2.1. LIMIT OF HOPPING FREQUENCY USED.....	23
4.2.2. TEST SETUP	23
4.2.3. TEST INSTRUMENTS.....	23
4.2.4. TEST PROCEDURES	24
4.2.5. DEVIATION FROM TEST STANDARD	24
4.2.6. TEST RESULTS	24
4.3. DWELL TIME ON EACH CHANNEL.....	27
4.3.1. LIMIT OF DWELL TIME USED.....	27
4.3.2. TEST SETUP	27
4.3.3. TEST INSTRUMENTS.....	27
4.3.4. TEST PROCEDURES	27
4.3.5. DEVIATION FROM TEST STANDARD	27
4.3.6. TEST RESULTS	28
4.4. CHANNEL BANDWIDTH	31

4.4.1.	LIMITS OF CHANNEL BANDWIDTH	31
4.4.2.	TEST SETUP	31
4.4.3.	TEST INSTRUMENTS.....	31
4.4.4.	TEST PROCEDURE.....	31
4.4.5.	DEVIATION FROM TEST STANDARD	31
4.4.6.	EUT OPERATING CONDITION	31
4.4.7.	TEST RESULTS	32
4.5.	HOPPING CHANNEL SEPARATION	36
4.5.1.	LIMIT OF HOPPING CHANNEL SEPARATION.....	36
4.5.2.	TEST SETUP	36
4.5.3.	TEST INSTRUMENTS.....	36
4.5.4.	TEST PROCEDURES	36
4.5.5.	DEVIATION FROM TEST STANDARD	36
4.5.6.	TEST RESULTS	37
4.6.	MAXIMUM OUTPUT POWER.....	41
4.6.1.	LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT	41
4.6.2.	TEST SETUP	41
4.6.3.	TEST INSTRUMENTS.....	41
4.6.4.	TEST PROCEDURES	41
4.6.5.	DEVIATION FROM TEST STANDARD	41
4.6.6.	EUT OPERATING CONDITION	41
4.6.7.	TEST RESULTS	42
4.7.	OUT OF BAND EMISSION MEASUREMENT	43
4.7.1.	LIMITS OF OUT OF BAND EMISSION MEASUREMENT	43
4.7.2.	TEST INSTRUMENTS.....	43
4.7.3.	TEST PROCEDURE.....	43
4.7.4.	DEVIATION FROM TEST STANDARD	43
4.7.5.	EUT OPERATING CONDITION	43
4.7.6.	TEST RESULTS	43
5.	PHOTOGRAPHS OF THE TEST CONFIGURATION	46
6.	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	47



Test Report No.: RF160805N003

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF160805N003	Original release	Sep. 07, 2016



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	N/A	Powered by battery
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.
15.247(d)&15.209	Transmitter Radiated Emission	PASS	Meet the requirement of limit.
15.247(d)	Out of band Emission Measurement	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used.

2 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:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9KHz ~ 30MHz	2.90dB
	30MHz ~ 1GMHz	3.83dB
	1GHz ~ 18GHz	4.93dB
	18GHz ~ 40GHz	4.80dB

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



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	CAR NAVIGATION
MODEL NO.	QY-8650
ADDITIONAL MODEL	QY-8600, QY-8601, QY-8651
FCC ID	WY2QY8600
POWER SUPPLY	DC 13.5V From Battery
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	GFSK, 8DPSK, $\pi/4$ DQPSK
OPERATING FREQUENCY	2402MHz~2480MHz
NUMBER OF CHANNEL	79
MAX. OUTPUT POWER	0.8492mW (Max. Measured)
ANTENNA TYPE	PCB Antenna, 0dBi Gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 160805N003) for detailed product photo.
4. Additional models QY-8600, QY-8601, QY-8651 are identical with the test model QY-8650 except the model No. and No BOSE/BOSE for trading purpose.



3.2 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		



3.2.1. CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photograph of the test configuration for reference.

3.2.2. TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports

The worst case was found when positioned on X axis for radiated emission.

Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	-	√	Powered by full Battery with Bluetooth link

Where **RE<1G**: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

RADIATED EMISSION TEST (BELOW 1 GHz):

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

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
0 to 78	39	FHSS	GFSK	DH5

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1 GHz):

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

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

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	DH5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	25deg. C, 53%RH	DC 13.5V from Battery	Eric Fang
RE≥1G	25deg. C, 53%RH	DC 13.5V from Battery	Eric Fang
PLC	N/A	N/A	N/A
APCM	20deg. C, 55%RH	DC 13.5V from Battery	Madison Luo



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. Section 15.247
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without other necessary accessories or support units.



4 TEST TYPES AND RESULTS

4.1. RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1. LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB 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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, 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 20dB under any condition of modulation.



4.1.2. TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,16	Apr. 04,17
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 09,15	Nov. 08,16
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 16, 16	Jul. 15, 17
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 30, 15	May 29, 17
GPS Generator+ Antenna	TOJOIN	GNSS-5000 A	E1-010119	Aug. 08, 16	Aug. 07, 17
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Mar. 12,16	Mar. 11,18
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 12,16	Mar. 11,17
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,16	Mar. 03, 17
Pre-Amplifier(1-18G)	HP	8449B	3008A00409	Apr. 25,16	Apr. 24,17
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 20,15	Nov. 19,16
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Sep. 01,15	Aug. 31,16

NOTE:

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 494399.



4.1.3. TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

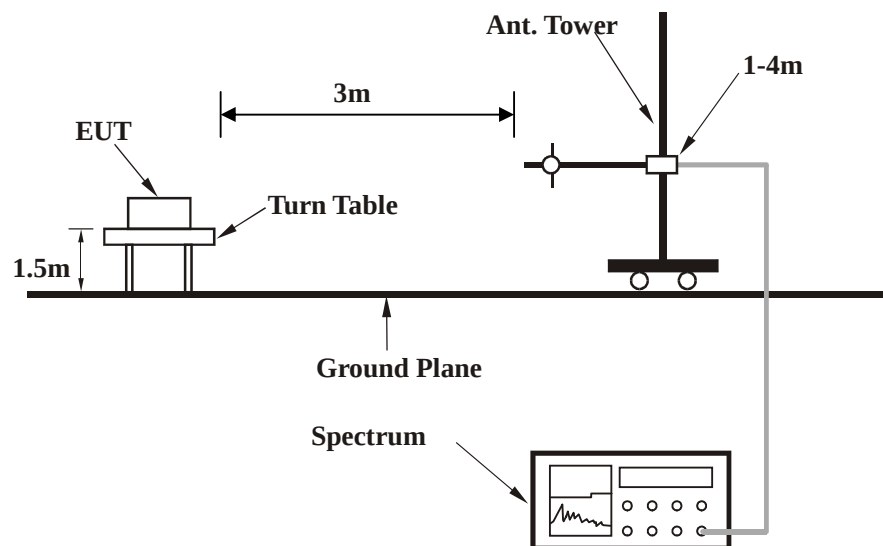
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. Bluetooth duty factor correction is not correct as it is based on 79 channels, worst case would be with AFH enabled and device using the minimum of 20 channels. Channel hop rate = 800 hops/second (AFH Mode), Adjusted channel hop rate for DH5 mode = 133.33 hops/second, Time per channel hop = $1 / 133.33 \text{ hops/second} = 7.5 \text{ ms}$, Time to cycle through all channels = $7.5 \times 20 \text{ channels} = 150 \text{ ms}$, Number of times transmitter hits on one channel = $100 \text{ ms} / 150 \text{ ms} = 1 \text{ time(s)}$, Worst case dwell time = 7.5 ms, Duty cycle connection factor = $20\log_{10}(7.5\text{ms} / 100\text{ms}) = -22.5 \text{ dB}$. Average value = peak reading + 20log(duty cycle).
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.



4.1.4. DEVIATION FROM TEST STANDARD

No deviation.

4.1.5. TEST SETUP



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

4.1.6. EUT OPERATING CONDITIONS

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.



4.1.7. TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

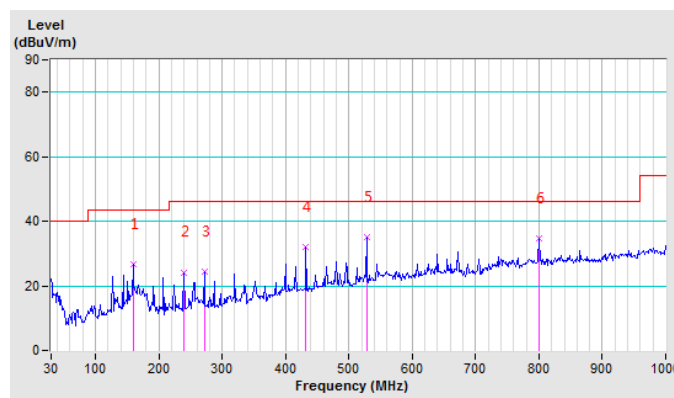
GFSK DH5

CHANNEL	Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	159.33	26.74	43.50	-16.76	200	0	44.22	-17.48
2	239.46	24.19	46.00	-21.81	200	0	41.43	-17.24
3	271.80	24.25	46.00	-21.75	200	0	38.84	-14.59
4	432.06	32.04	46.00	-13.96	200	0	41.71	-9.67
5	527.65	34.95	46.00	-11.05	200	0	41.50	-6.55
6	800.38	34.70	46.00	-11.30	200	0	35.82	-1.12

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



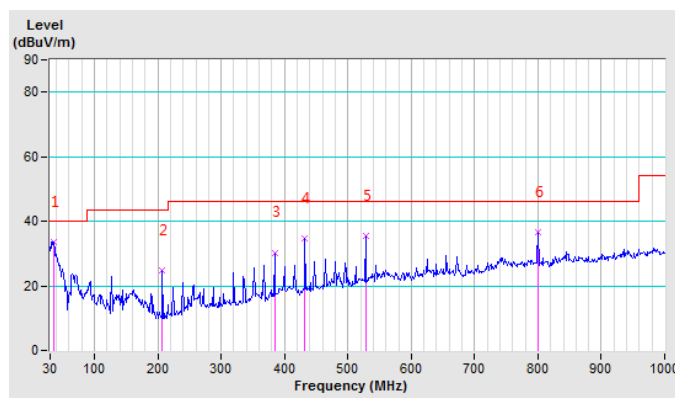


CHANNEL	Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	35.62	33.66	40.00	-6.34	100	0	47.90	-14.24
2	207.13	24.69	43.50	-18.81	100	0	44.50	-19.81
3	384.26	30.29	46.00	-15.71	100	0	41.31	-11.02
4	432.06	34.81	46.00	-11.19	100	0	44.48	-9.67
5	527.65	35.29	46.00	-10.71	100	0	41.84	-6.55
6	800.38	36.62	46.00	-9.38	100	0	37.74	-1.12

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





**ABOVE 1GHz WORST-CASE DATA:
GFSK DH5**

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	38.6 PK	74.0	-35.4	1.95 H	238	36.11	2.53
2	2390.00	16.1 AV	54.0	-37.9	1.95 H	238	13.61	2.53
3	*2402.00	83.9 PK			1.95 H	238	81.30	2.56
4	*2402.00	61.4 AV			1.95 H	238	58.80	2.56
5	4804.00	58.9 PK	74.0	-15.1	1.68 H	89	51.19	7.74
6	4804.00	36.4 AV	54.0	-17.6	1.68 H	89	28.69	7.74
7	#7206.00	53.5 PK	63.9	-10.4	1.55 H	284	40.09	13.37
8	#7206.00	31.0 AV	41.4	-10.4	1.55 H	284	17.59	13.37
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	41.9 PK	74.0	-32.1	1.56 V	203	39.38	2.53
2	2390.00	19.4 AV	54.0	-34.6	1.56 V	203	16.88	2.53
3	*2402.00	86.7 PK			1.56 V	203	84.11	2.56
4	*2402.00	64.2 AV			1.56 V	203	61.61	2.56
5	4804.00	54.3 PK	74.0	-19.7	1.64 V	253	46.59	7.74
6	4804.00	31.8 AV	54.0	-22.2	1.64 V	253	24.09	7.74
7	#7206.00	48.9 PK	66.7	-17.8	1.95 V	326	35.54	13.37
8	#7206.00	26.4 AV	44.2	-17.8	1.95 V	326	13.04	13.37

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	84.2 PK			1.52 H	285	81.54	2.66
2	*2441.00	61.7 AV			1.52 H	285	59.04	2.66
3	4882.00	57.9 PK	74.0	-16.1	1.47 H	264	50.07	7.87
4	4882.00	35.4 AV	54.0	-18.6	1.47 H	264	27.57	7.87
5	7323.00	52.8 PK	74.0	-21.2	1.24 H	303	39.18	13.64
6	7323.00	30.3 AV	54.0	-23.7	1.24 H	303	16.68	13.64
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	87.6 PK			1.74 V	201	84.93	2.66
2	*2441.00	65.1 AV			1.74 V	201	62.43	2.66
3	4882.00	56.3 PK	74.0	-17.7	1.64 V	259	48.46	7.87
4	4882.00	33.8 AV	54.0	-20.2	1.64 V	259	25.96	7.87
5	7323.00	53.1 PK	74.0	-20.9	1.85 V	293	39.47	13.64
6	7323.00	30.6 AV	54.0	-23.4	1.85 V	293	16.97	13.64

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	85.2 PK			1.19 H	306	82.44	2.76
2	*2480.00	62.7 AV			1.19 H	306	59.94	2.76
3	2483.50	40.7 PK	74.0	-33.3	1.19 H	306	37.93	2.77
4	2483.50	18.2 AV	54.0	-35.8	1.19 H	306	15.43	2.77
5	4960.00	60.9 PK	74.0	-13.1	1.60 H	105	52.90	7.98
6	4960.00	38.4 AV	54.0	-15.6	1.60 H	105	30.40	7.98
7	7440.00	50.1 PK	74.0	-23.9	1.89 H	235	36.21	13.91
8	7440.00	27.6 AV	54.0	-26.4	1.89 H	235	13.71	13.91
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	84.3 PK			1.54 V	216	81.50	2.76
2	*2480.00	61.8 AV			1.54 V	216	59.00	2.76
3	2483.50	40.2 PK	74.0	-33.8	1.54 V	216	37.43	2.77
4	2483.50	17.7 AV	54.0	-36.3	1.54 V	216	14.93	2.77
5	4960.00	58.8 PK	74.0	-15.2	1.52 V	231	50.81	7.98
6	4960.00	36.3 AV	54.0	-17.7	1.52 V	231	28.31	7.98
7	7440.00	50.6 PK	74.0	-23.4	1.95 V	186	36.64	13.91
8	7440.00	28.1 AV	54.0	-25.9	1.95 V	186	14.14	13.91

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



BT_8DPSK DH5

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	45.3 PK	74.0	-28.7	1.56 H	300	42.77	2.53
2	2390.00	22.8 AV	54.0	-31.2	1.56 H	300	20.27	2.53
3	*2402.00	82.4 PK			1.36 H	228	79.81	2.56
4	*2402.00	59.9 AV			1.36 H	228	57.31	2.56
5	4804.00	52.3 PK	74.0	-21.7	1.19 H	259	44.56	7.74
6	4804.00	29.8 AV	54.0	-24.2	1.19 H	259	22.06	7.74
7	#7206.00	48.9 PK	62.4	-13.5	1.88 H	263	35.55	13.37
8	#7206.00	26.4 AV	39.9	-13.5	1.88 H	263	13.05	13.37
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	41.5 PK	74.0	-32.5	1.23 V	302	38.97	2.53
2	2390.00	19.0 AV	54.0	-35.0	1.23 V	302	16.47	2.53
3	*2402.00	85.5 PK			1.23 V	302	82.93	2.56
4	*2402.00	63.0 AV			1.23 V	302	60.43	2.56
5	4804.00	47.7 PK	74.0	-26.3	1.47 V	238	39.97	7.74
6	4804.00	25.2 AV	54.0	-28.8	1.47 V	238	17.47	7.74
7	#7206.00	50.1 PK	65.5	-15.4	1.00 V	266	36.72	13.37
8	#7206.00	27.6 AV	43.0	-15.4	1.00 V	266	14.22	13.37

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	83.4 PK			1.53 H	256	80.78	2.66
2	*2441.00	60.9 AV			1.53 H	256	58.28	2.66
3	4882.00	53.4 PK	74.0	-20.6	1.52 H	217	45.57	7.87
4	4882.00	30.9 AV	54.0	-23.1	1.52 H	217	23.07	7.87
5	7323.00	51.3 PK	74.0	-22.7	1.00 H	85	37.66	13.64
6	7323.00	28.8 AV	54.0	-25.2	1.00 H	85	15.16	13.64
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	85.5 PK			1.52 V	285	82.84	2.66
2	*2441.00	63.0 AV			1.52 V	285	60.34	2.66
3	4882.00	51.3 PK	74.0	-22.7	1.96 V	256	43.43	7.87
4	4882.00	28.8 AV	54.0	-25.2	1.96 V	256	20.93	7.87
5	7323.00	50.2 PK	74.0	-23.8	1.87 V	284	36.56	13.64
6	7323.00	27.7 AV	54.0	-26.3	1.87 V	284	14.06	13.64

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	80.2 PK			1.46 H	287	77.48	2.76
2	*2480.00	57.7 AV			1.46 H	287	54.98	2.76
3	2483.50	41.3 PK	74.0	-32.7	1.46 H	287	38.53	2.77
4	2483.50	18.8 AV	54.0	-35.2	1.46 H	287	16.03	2.77
5	4960.00	56.0 PK	74.0	-18.0	1.96 H	224	48.06	7.98
6	4960.00	33.5 AV	54.0	-20.5	1.96 H	224	25.56	7.98
7	7440.00	50.5 PK	74.0	-23.5	1.00 H	110	36.56	13.91
8	7440.00	28.0 AV	54.0	-26.0	1.00 H	110	14.06	13.91
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	82.6 PK			1.14 V	293	79.84	2.76
2	*2480.00	60.1 AV			1.14 V	293	57.34	2.76
3	2483.50	41.6 PK	74.0	-32.4	1.14 V	293	38.83	2.77
4	2483.50	19.1 AV	54.0	-34.9	1.14 V	293	16.33	2.77
5	4960.00	56.2 PK	74.0	-17.8	1.32 V	285	48.23	7.98
6	4960.00	33.7 AV	54.0	-20.3	1.32 V	285	25.73	7.98
7	7440.00	50.5 PK	74.0	-23.5	1.15 V	263	36.55	13.91
8	7440.00	28.0 AV	54.0	-26.0	1.15 V	263	14.05	13.91

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

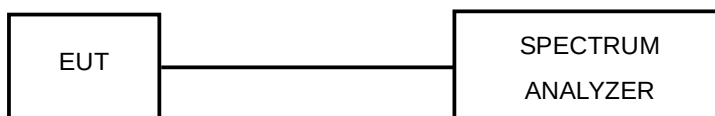


4.2. NUMBER OF HOPPING FREQUENCY USED

4.2.1. LIMIT OF HOPPING FREQUENCY USED

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

4.2.2. TEST SETUP



4.2.3. TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 27,16	May 26,17
Power Sensor	Keysight	U2021XA	MY55060018	May 27,16	May 26,17
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 12, 15	Oct.11, 16
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.07,15	Sep. 06,16
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 28,15	Nov. 27,16
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 09,15	Nov. 08,16
Signal Generator	Agilent	N5183A	MY50140980	Nov. 09,15	Nov. 08,16
ESG Vector Signal Generator	Agilent	E4438C	MY49072505	Apr. 22, 16	Apr. 21, 17
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Sep. 01,15	Aug. 31,16

NOTE:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



4.2.4. TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. 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.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were completed.

4.2.5. DEVIATION FROM TEST STANDARD

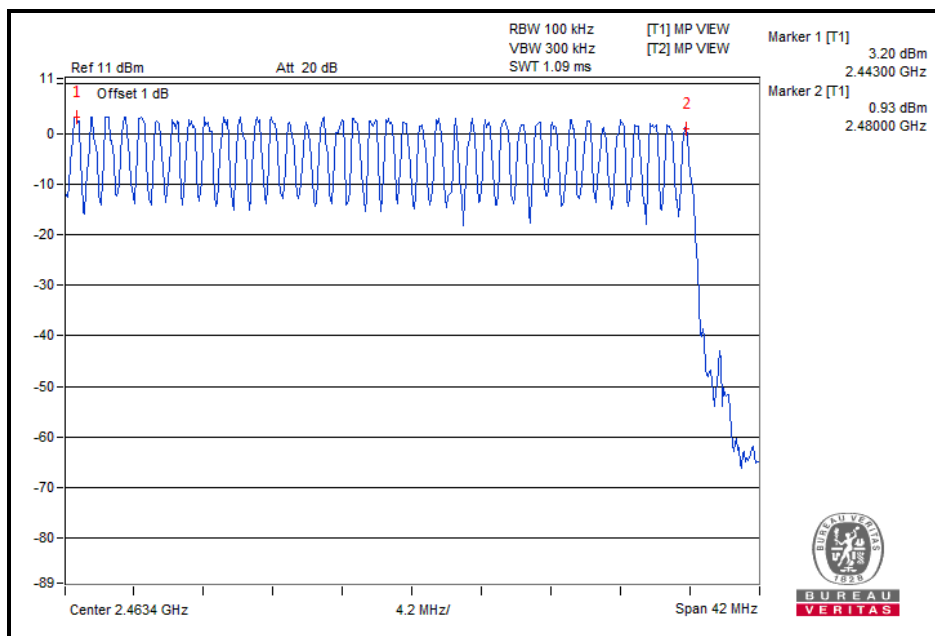
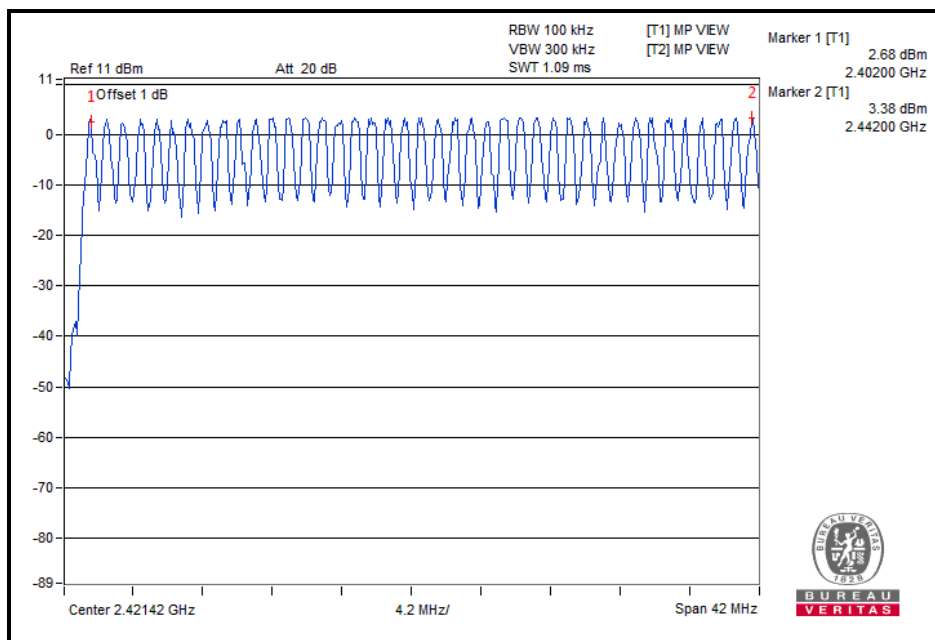
No deviation.

4.2.6. TEST RESULTS

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

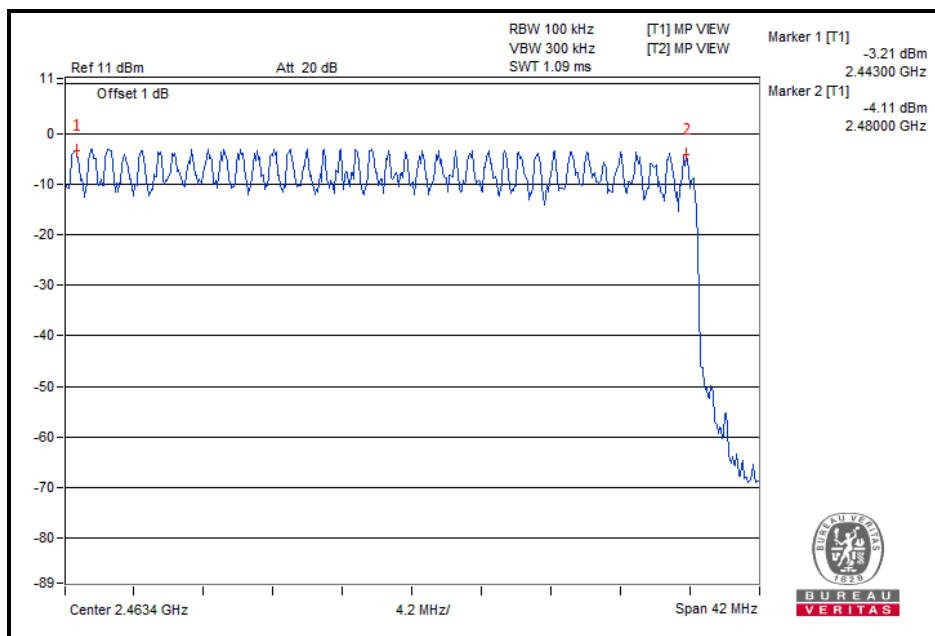
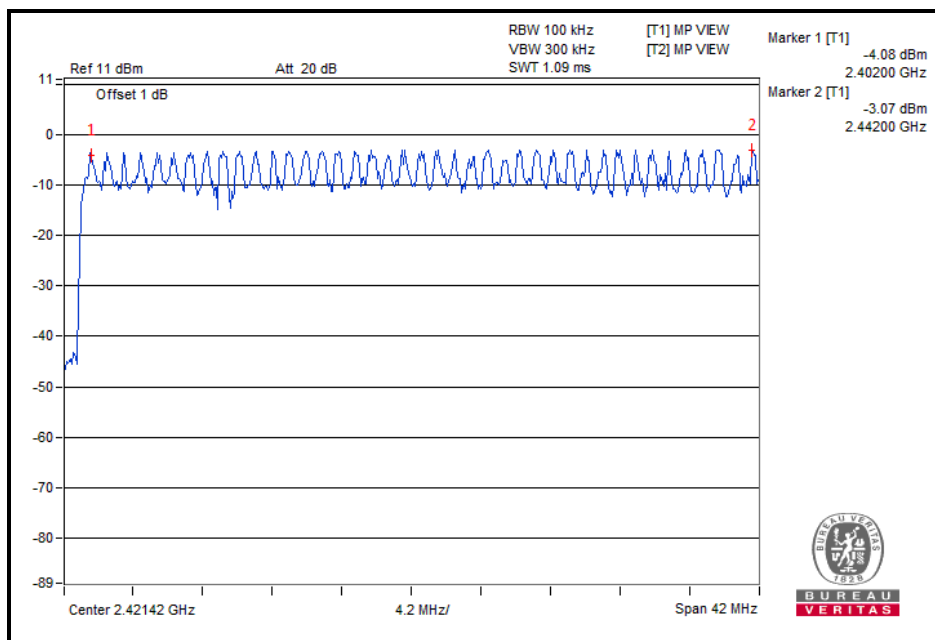


GFSK





8DPSK



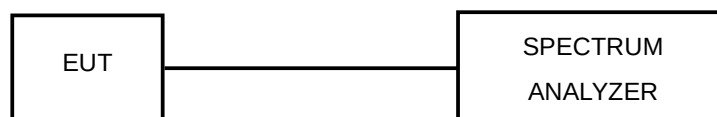


4.3. DWELL TIME ON EACH CHANNEL

4.3.1. LIMIT OF DWELL TIME USED

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.

4.3.2. TEST SETUP



4.3.3. TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.3.4. TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. 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.
- c. 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.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.

4.3.5. DEVIATION FROM TEST STANDARD

No deviation.



4.3.6. TEST RESULTS

GFSK

Mode	Number of Hopping Channel	Number of transmission in a period(channel number*0.4 sec)				Length of transmission time (msec)	Result (msec)	Limit (msec)	PASS / FAIL
		period (sec)	sweep time (sec)	times in a sweep	times in a period				
DH1	79	31.6	5	51	322.32	0.474	152.78	400	PASS
DH3	79	31.6	5	25	158.00	1.710	270.18	400	PASS
DH5	79	31.6	5	17	107.44	2.976	319.74	400	PASS

8DPSK

Mode	Number of Hopping Channel	Number of transmission in a period(channel number*0.4 sec)				Length of transmission time (msec)	Result (msec)	Limit (msec)	PASS / FAIL
		period (sec)	sweep time (sec)	times in a sweep	times in a period				
DH1	79	31.6	5	51	322.32	0.492	158.58	400	PASS
DH3	79	31.6	5	25	158.00	1.720	271.76	400	PASS
DH5	79	31.6	5	17	107.44	3.008	323.18	400	PASS

NOTE: Test plots of the transmitting time slot are shown on next page.



GFSK





8DPSK



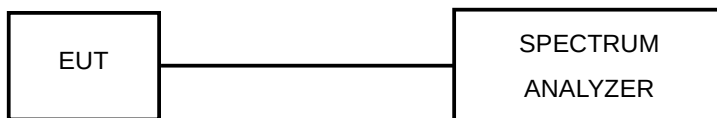


4.4. CHANNEL BANDWIDTH

4.4.1. LIMITS OF CHANNEL BANDWIDTH

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

4.4.2. TEST SETUP



4.4.3. TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.4.4. 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 measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

4.4.5. DEVIATION FROM TEST STANDARD

No deviation.

4.4.6. EUT OPERATING CONDITION

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

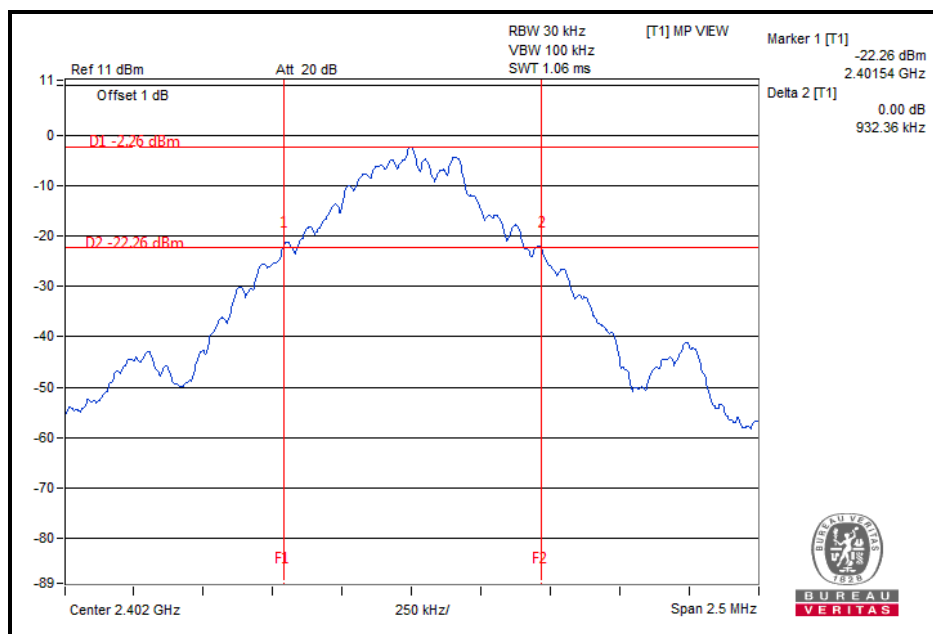


4.4.7. TEST RESULTS

GFSK

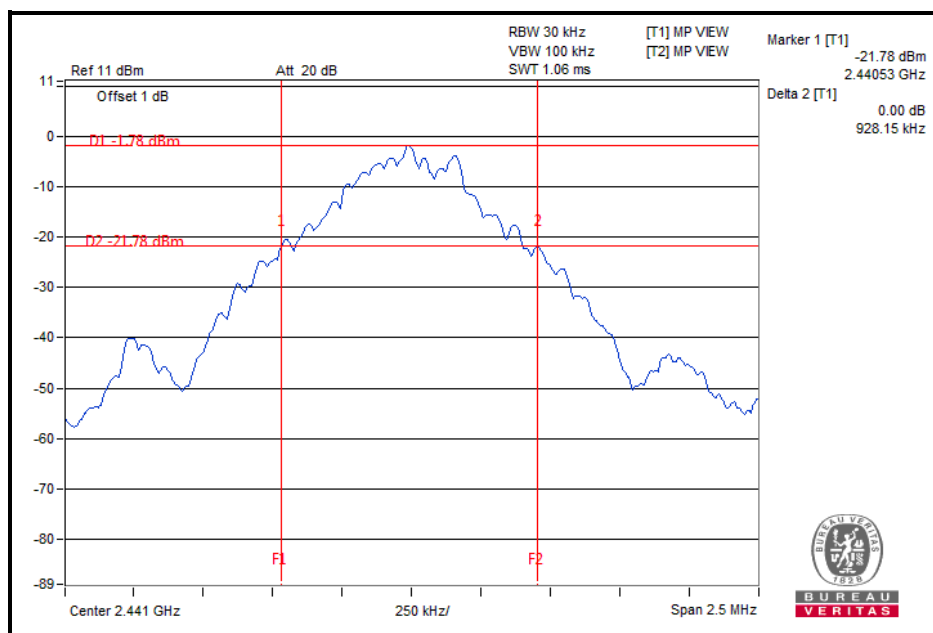
CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
0	2402	0.932
39	2441	0.928
78	2480	0.933

CH 0

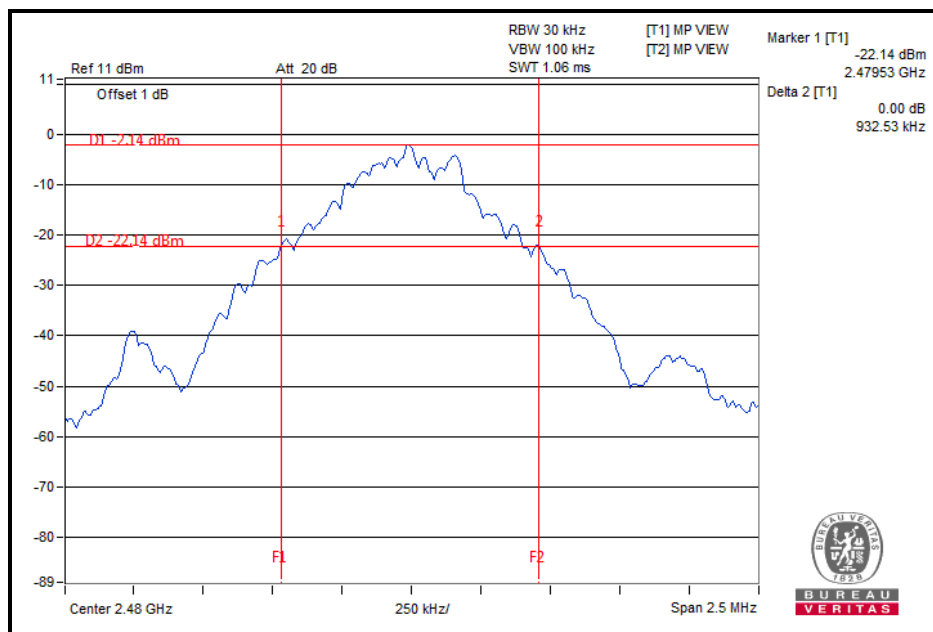




CH 39



CH 78

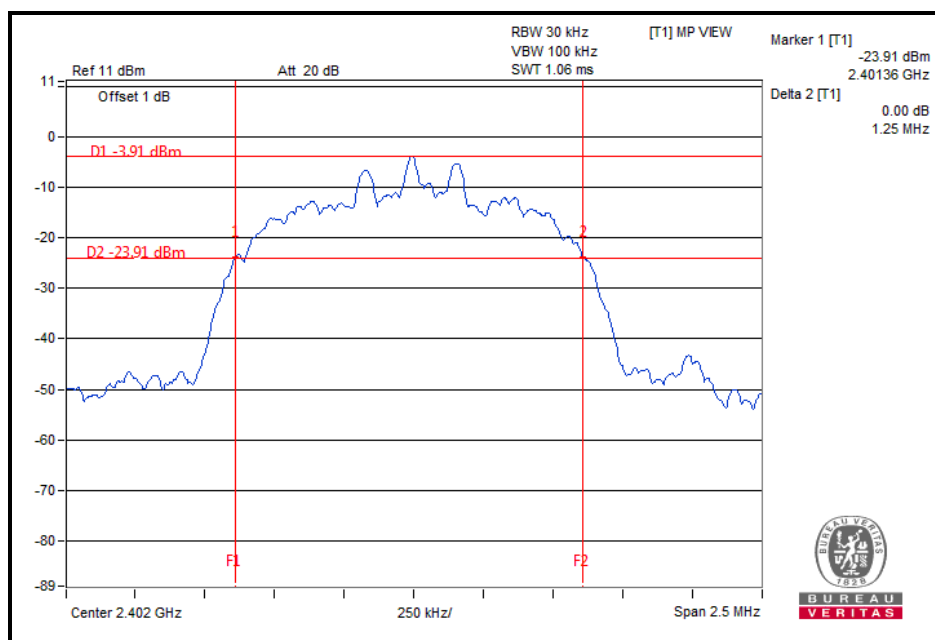




8DPSK

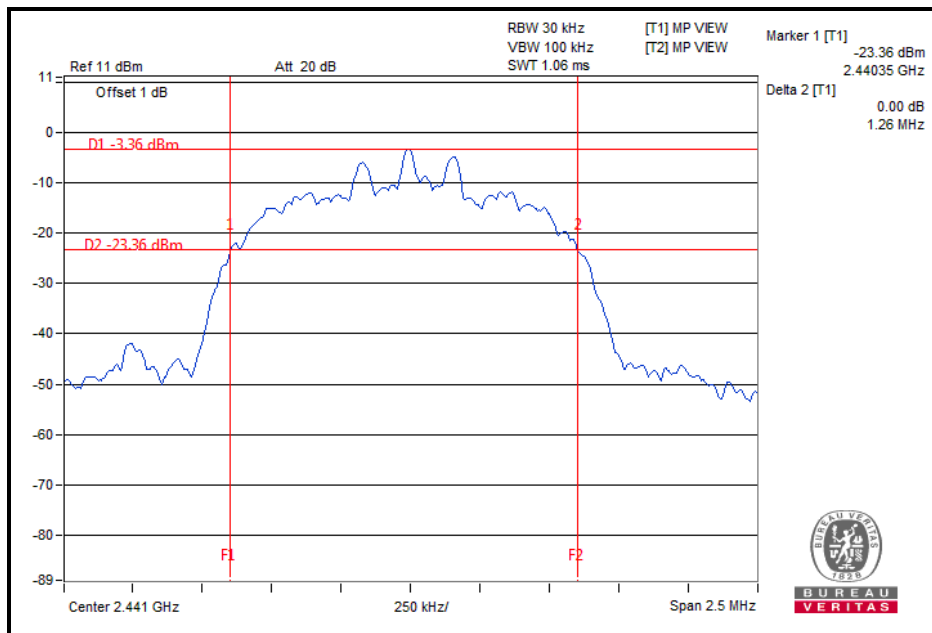
CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
0	2402	1.25
39	2441	1.26
78	2480	1.25

CH 0

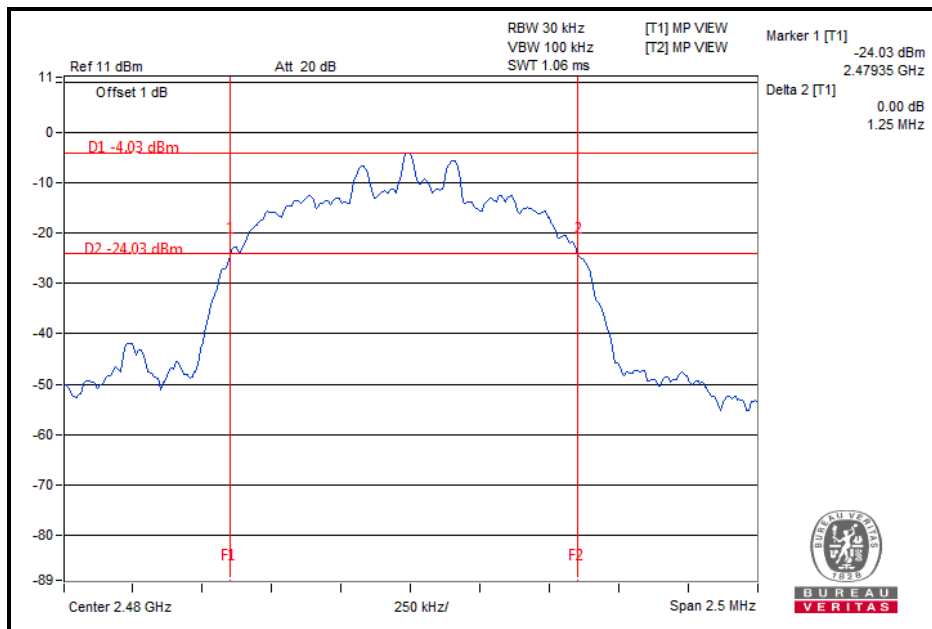




CH 39



CH 78



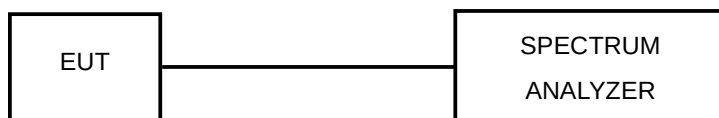


4.5. HOPPING CHANNEL SEPARATION

4.5.1. LIMIT OF HOPPING CHANNEL SEPARATION

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

4.5.2. TEST SETUP



4.5.3. TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.5.4. TEST PROCEDURES

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

4.5.5. DEVIATION FROM TEST STANDARD

No deviation.



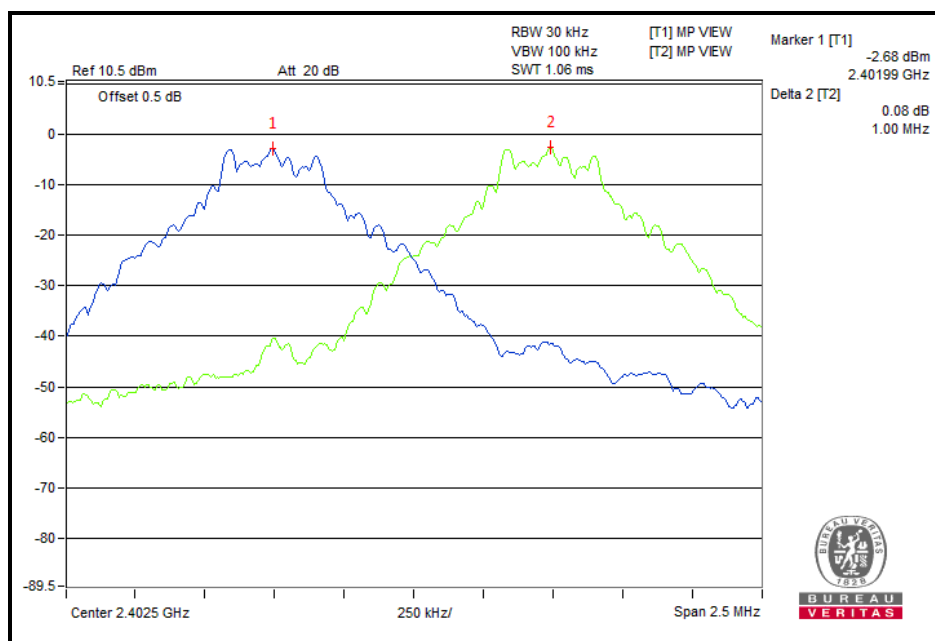
4.5.6. TEST RESULTS

GFSK

CHANNEL	FREQUENCY (MHz)	ADJACENT CHANNEL SEPARATION (MHz)	20dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.00	0.932	0.621	PASS
39	2441	1.01	0.928	0.619	PASS
78	2480	1.00	0.933	0.622	PASS

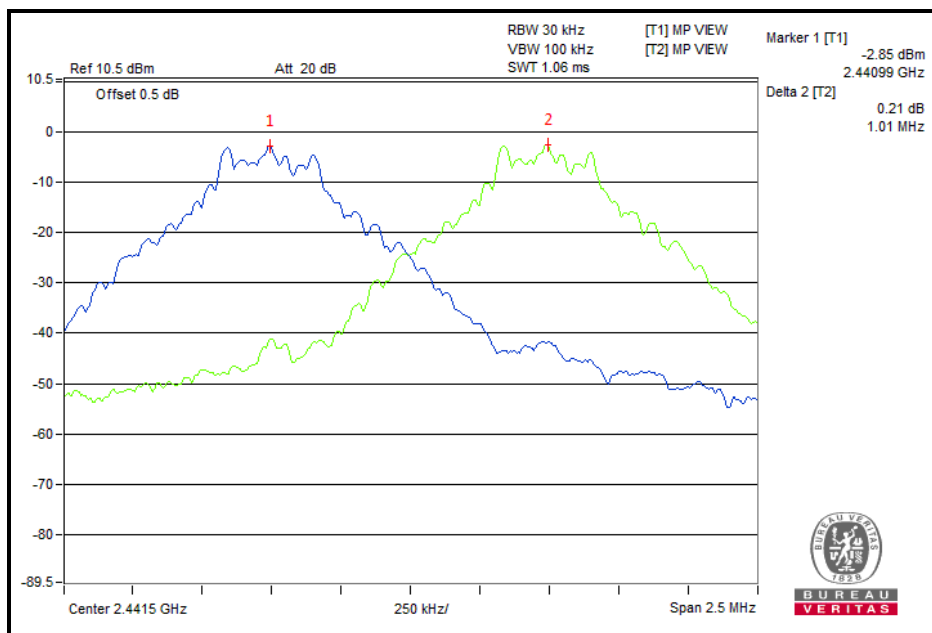
NOTE: The minimum limit is two-third 20dB bandwidth.

CH 0

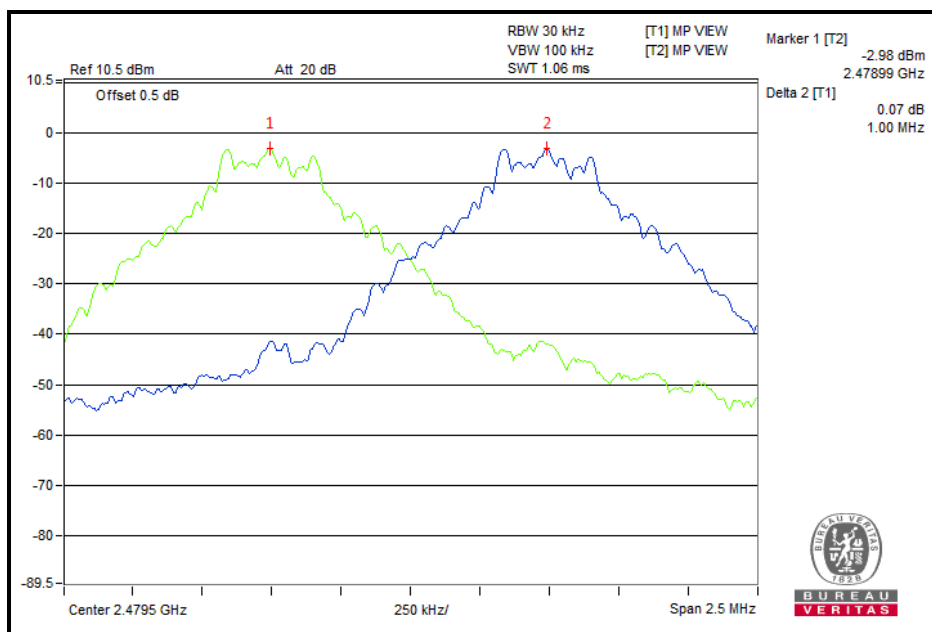




CH 39



CH 78



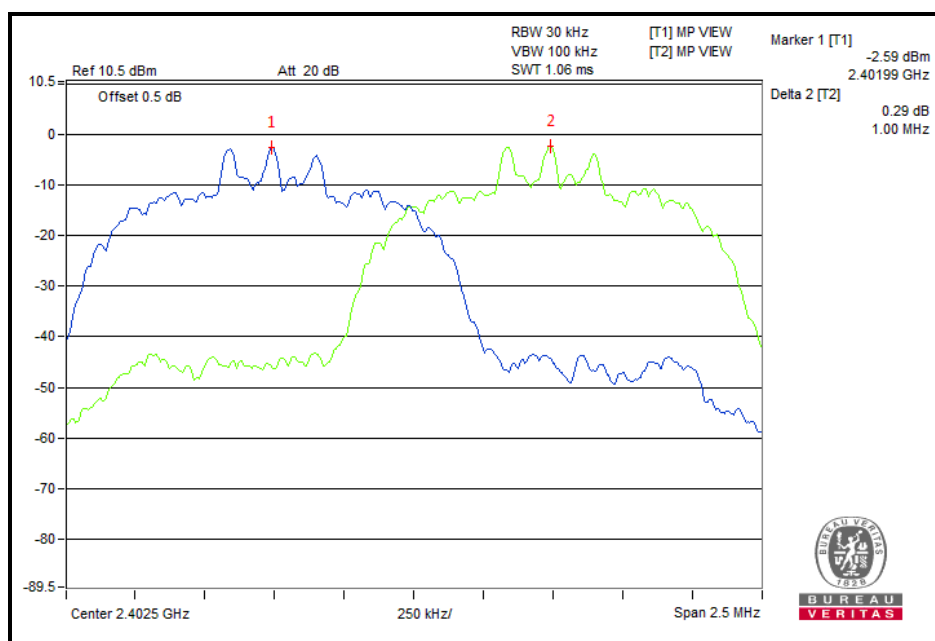
8DPSK



CHANNEL	FREQUENCY (MHz)	ADJACENT CHANNEL SEPARATION (MHz)	20dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.00	1.25	0.833	PASS
39	2441	1.01	1.26	0.840	PASS
78	2480	1.00	1.25	0.833	PASS

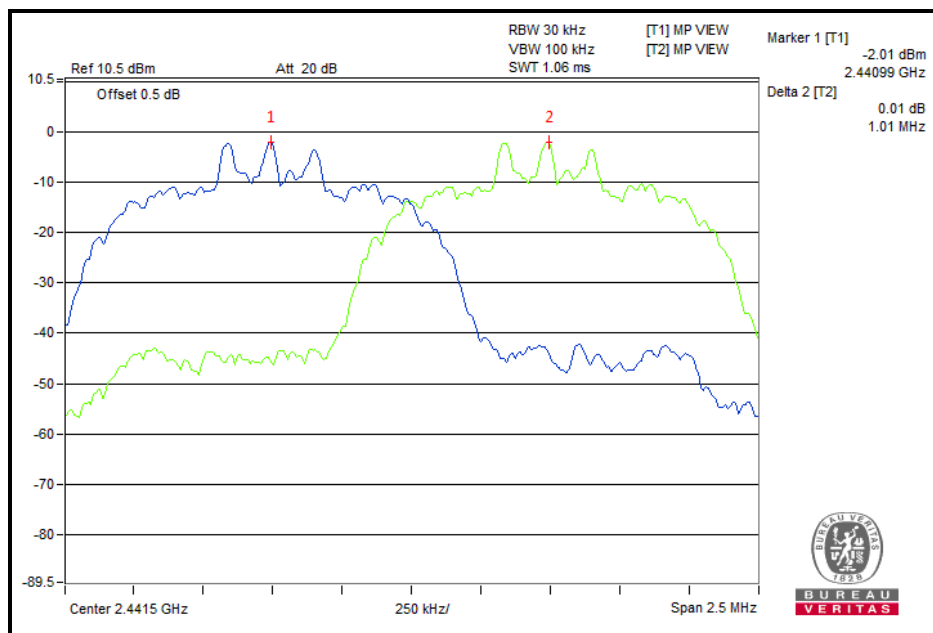
NOTE: The minimum limit is two-third 20dB bandwidth.

CH 0

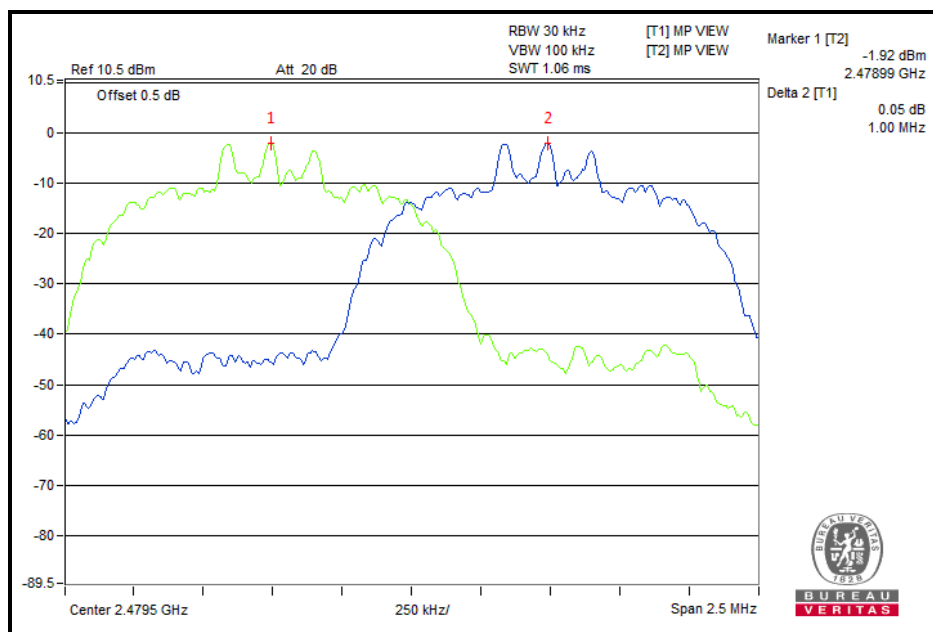




CH 39



CH 78



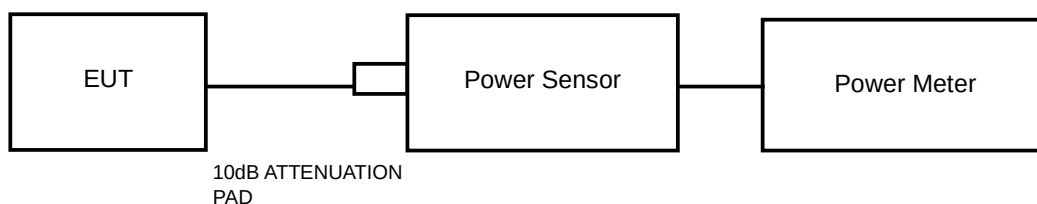


4.6. MAXIMUM OUTPUT POWER

4.6.1. LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

4.6.2. TEST SETUP



4.6.3. TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.6.4. TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A peak power meter was used to read the response of the peak power sensor. Record the peak power level.

4.6.5. DEVIATION FROM TEST STANDARD

No deviation.

4.6.6. EUT OPERATING CONDITION

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



4.6.7. TEST RESULTS

MAXIMUM PEAK OUTPUT POWER

GFSK

CHANNEL	CHANNEL FREQUENCY (MHz)	PK POWER (dBm)	PK POWER (mW)	PK POWER LIMIT (mW)	PASS/FAIL
0	2402	-1.08	0.7798	125	PASS
39	2441	-0.71	0.8492	125	PASS
78	2480	-1.36	0.7311	125	PASS

8DPSK

CHANNEL	CHANNEL FREQUENCY (MHz)	PK POWER (dBm)	PK POWER (mW)	PK POWER LIMIT (mW)	PASS/FAIL
0	2402	-1.92	0.6427	125	PASS
39	2441	-1.43	0.7194	125	PASS
78	2480	-2.11	0.6152	125	PASS

AVERAGE OUTPUT POWER (FOR REFERENCE)

GFSK

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVERAGE POWER (mW)
0	2402	-3.11	0.489
39	2441	-2.61	0.548
78	2480	-3.91	0.406

8DPSK

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVERAGE POWER (mW)
0	2402	-3.89	0.408
39	2441	-3.02	0.499
78	2480	-4.35	0.367



4.7. OUT OF BAND EMISSION MEASUREMENT

4.7.1. LIMITS OF out of band EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

4.7.2. TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.7.3. TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. of Spectrum Analyzer was set RBW to 100 kHz and VBW to 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. Detector = PEAK and Trace mode = Max Hold. The band edges was measured and recorded.

4.7.4. DEVIATION FROM TEST STANDARD

No deviation.

4.7.5. EUT OPERATING CONDITION

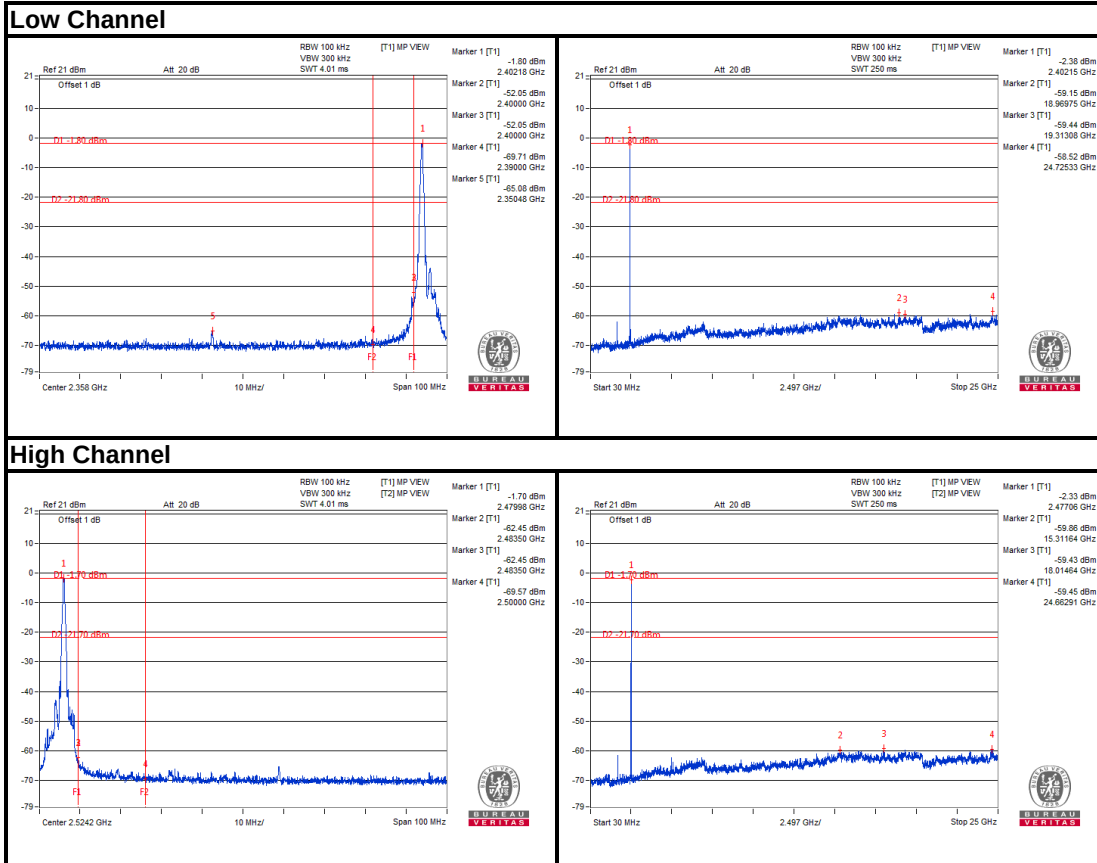
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.7.6. 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 to the requirement.

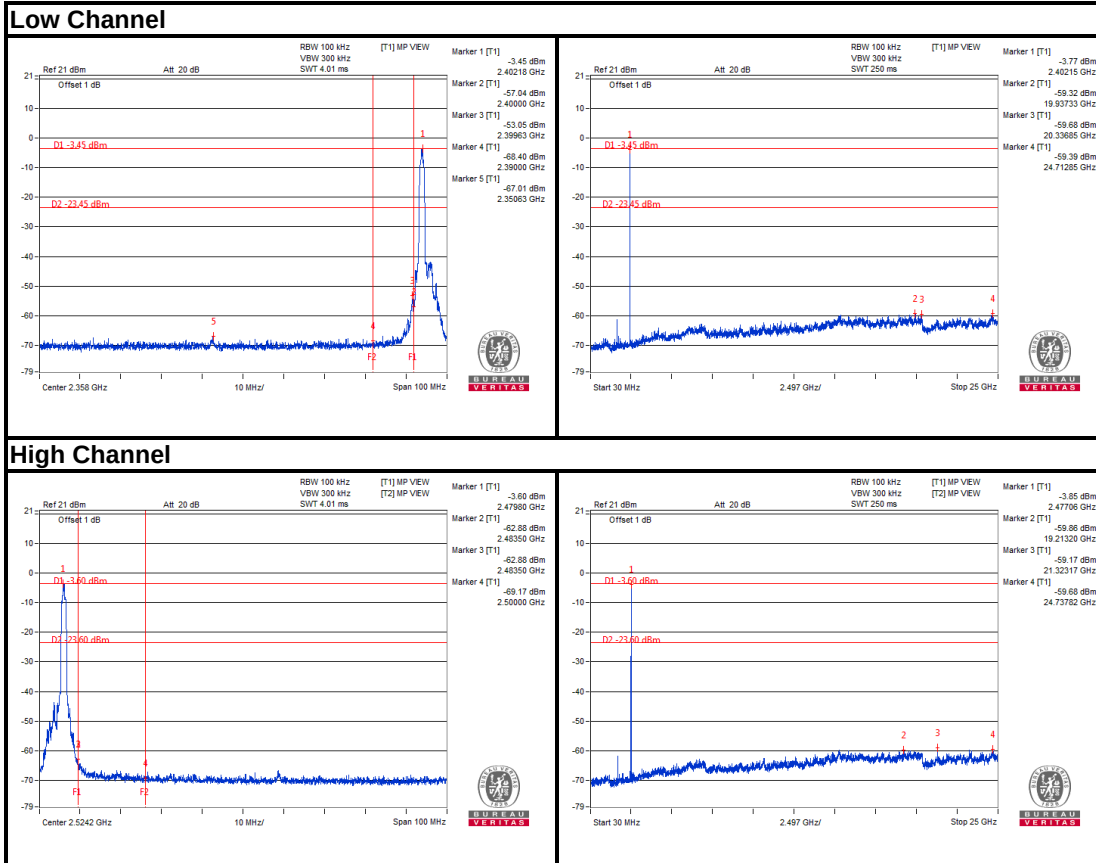


GFSK





8DPSK





5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



6. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---