

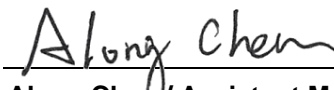
FCC Test Report

FCC ID : YQMLLS090
Equipment : Focus Premium
Model No. : Focus Premium
Brand Name : FARO
Applicant : FARO Technologies, Inc.
Address : 250 Technology Park, Lake Mary, Florida,
United States, 32746
Standard : 47 CFR FCC Part 15.247
Received Date : Dec. 16, 2021
Tested Date : Dec. 29, 2021 ~ Feb. 22, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR1D1602AD	Rev. 01	Initial issue	May 04, 2022
FR1D1602AD	Rev. 02	Corrected received date of test sample and company number of ISED	Jun. 14, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	Note ¹	N/A
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 474.88MHz 43.60 (Margin -2.40dB) - QP	Pass
15.247(d)	Band Edge	Meet the requirement of limit	Pass
15.247(b)(1)	Conducted Output Power	Power [dBm]: 8.68	Pass
15.247(a)(1)(iii)	Number of Hopping Channels	Meet the requirement of limit	Pass
15.247(a)(1)	Hopping Channel Separation	Meet the requirement of limit	Pass
15.247(a)(1)(iii)	Dwell Time	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

N/A means Not Applicable.

Note¹: The EUT consumes DC power, so the test is not required.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number	Data Rate
2400-2483.5	BR	2402-2480	0-78 [79]	1 Mbps
2400-2483.5	EDR	2402-2480	0-78 [79]	2 Mbps
2400-2483.5	EDR	2402-2480	0-78 [79]	3 Mbps

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.
 Note 2: Bluetooth BR uses a GFSK.
 Note 3: Bluetooth EDR uses a combination of $\pi/4$ -DQPSK and 8DPSK.

1.1.2 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)
1	Dipole	UFL	2.55

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	14.4Vdc from battery
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1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	Battery	Brand: Akku Power GmbH Model: ACCS-PWR-0014 Power Rating: Nom. Voltage: 14.4V Capacity: 6.8Ah Watt Hour: 97.92Wh Serial Number: 01562
2	3D_AC_LS_SD Card Reader	Brand: Transcend Model: G23758
3	SD Card	Brand: SanDisk Extreme PRO (170MB/s) Capacity: 64GB
4	Status Indicator	Model: 900-000038-001

1.1.5 Test Sample Information

Serial Number of Test Sample	Radiated Emission: LLS092125011 Antenna Port Conducted: LLS092125011
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1.1.6 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (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	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	QRCT_CONN, Version: v30161 Bluetooth simulator: Brand: R&S, Model: CMW270	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
DH5	77.75%	1.09
2DH5	77.99%	1.08
3DH5	77.99%	1.08

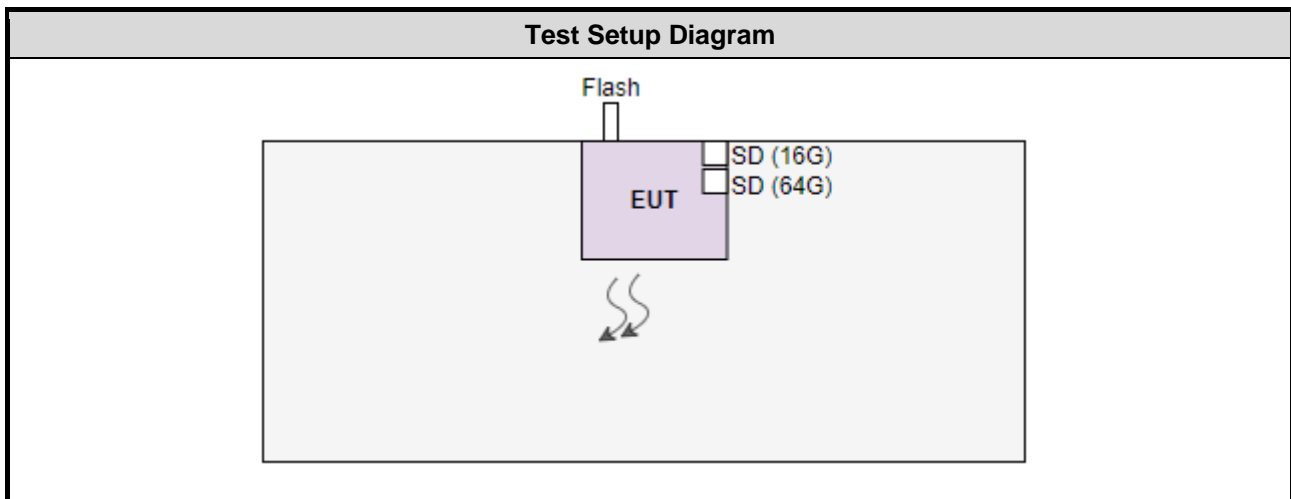
1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)		
	2402	2441	2480
GFSK/1Mbps	8	8	8
$\pi/4$ -DQPSK /2Mbps	8	8	8
8DPSK/3Mbps	8	8	8

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude 5400	DoC	---
2	USB to RJ45	---	---	---	Provided by applicant.
3	USB 3.1 Flash	pqi	Connect 313/16GB	---	---
4	SD Card	SanDisk	16GB	---	Provided by applicant.

1.3 Test Setup Chart



Note: The notebook & USB to RJ45 cable is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

1.4 The Equipment List

Test Item	Radiated Emission Below 1GHz				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Dec. 29, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	May 06, 2021	May 05, 2022
Preamplifier	EMC	EMC02325	980187	Jul. 26, 2021	Jul. 25, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 24, 2021	Sep. 23, 2022
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 24, 2021	Sep. 23, 2022
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 24, 2021	Sep. 23, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	Radiated Emission Above 1GHz				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Jan. 28, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Mar. 02, 2021	Mar. 01, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2021	Dec. 19, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	Agilent	83017A	MY39501309	Sep. 06, 2021	Sep. 05, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 24, 2021	Sep. 23, 2022
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 24, 2021	Sep. 23, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Feb. 22, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
Measurement Software	Sporton	SENSE-15247_FS	V5.10.7.11	NA	NA
Wireless connectivity tester	R&S	CMW270	100856	Nov. 01, 2021	Oct. 31, 2022
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Power density	±0.583 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.96 dB
Radiated emission > 1GHz	±4.51 dB
Time	±0.1%

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Data Rate (Mbps)	Test Configuration
Radiated Emissions ≤ 1GHz	GFSK	2480	1Mbps	---
Radiated Emissions > 1GHz	GFSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480	1Mbps 3Mbps	---
Conducted Output Power	GFSK π/4 DQPSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480 2402, 2441, 2480	1Mbps 2Mbps 3Mbps	---
Number of Hopping Channels	GFSK π/4 DQPSK 8DPSK	2402~2480 2402~2480 2402~2480	1Mbps 2Mbps 3Mbps	---
Hopping Channel Separation 20dB and Occupied bandwidth	GFSK π/4 DQPSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480 2402, 2441, 2480	1Mbps 2Mbps 3Mbps	---
Dwell Time	GFSK π/4 DQPSK 8DPSK	2402 2402 2402	1Mbps 2Mbps 3Mbps	---

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

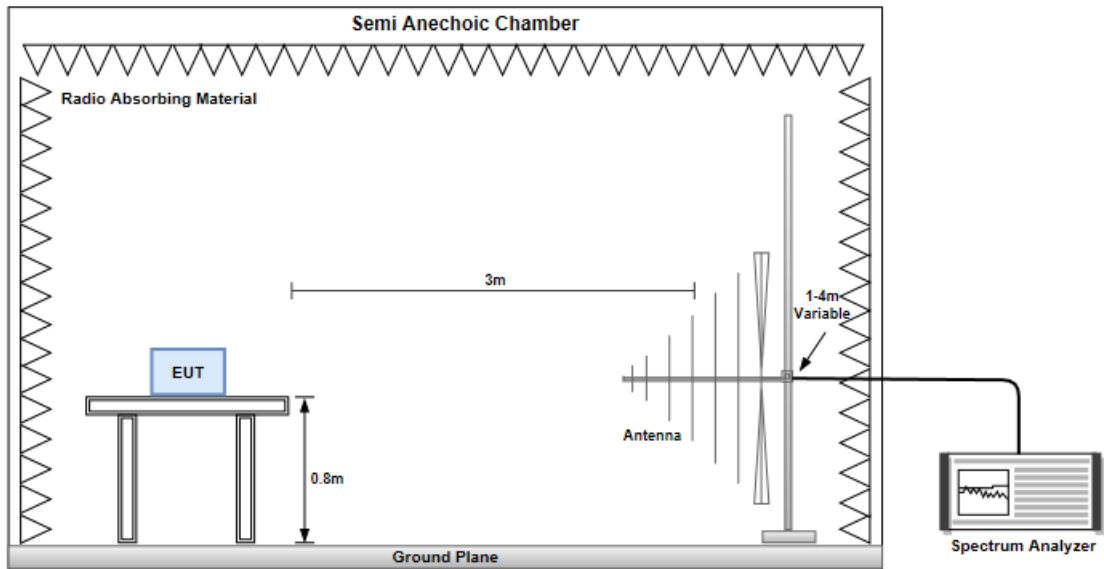
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

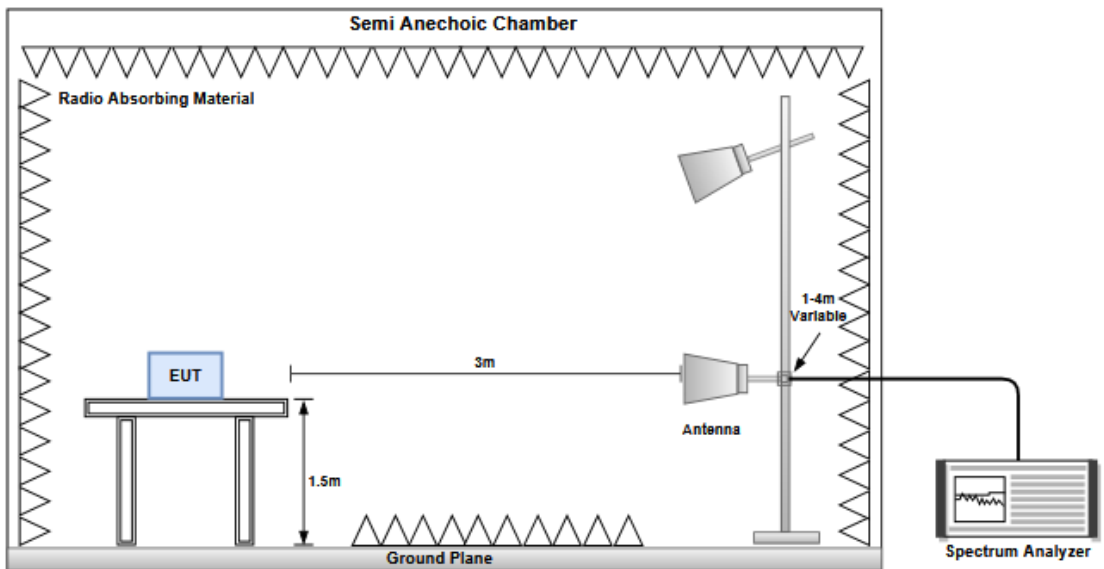
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. Radiated emission above 1GHz / Peak value
RBW=1MHz, VBW=3MHz and Peak detector
Radiated emission above 1GHz / Average value for harmonics
The average value is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula for DH5 packet type which has worst duty factor:
3.
$$20\log(\text{Duty cycle}) = 20\log \frac{1\text{s} / 1600 * 5}{100\text{ ms}} = -30.1\text{dB}$$
4. Radiated emission above 1GHz / Average value for other emissions
RBW=1MHz, VBW=1/T and Peak detector

3.1.3 Test Setup

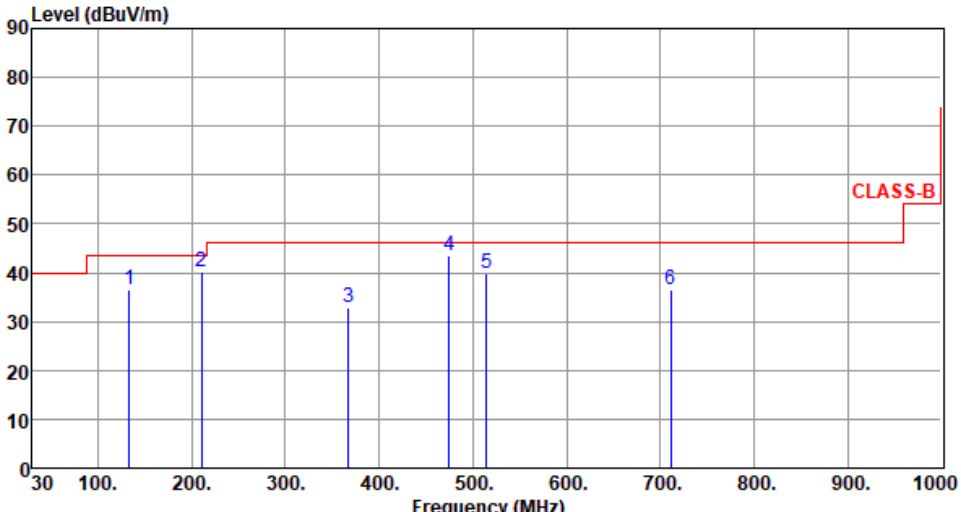
Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



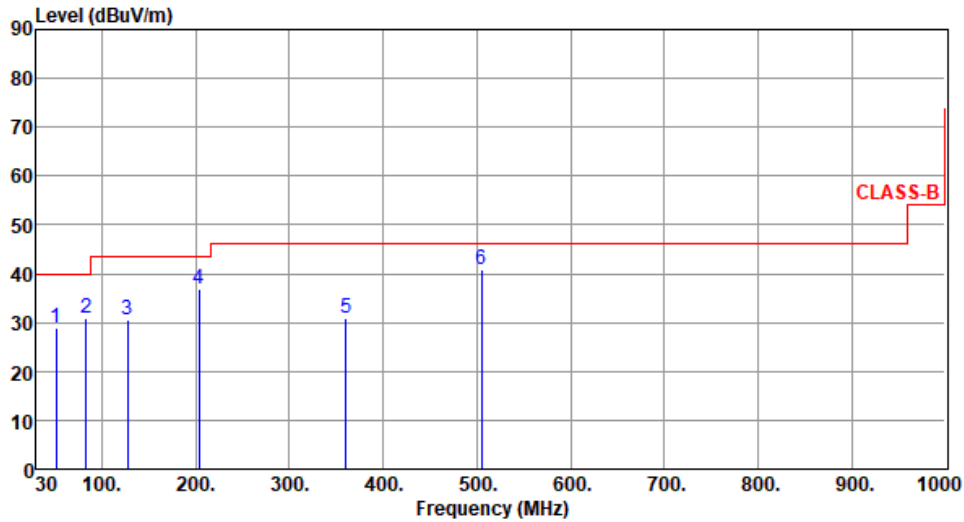
3.1.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	GFSK	Test Freq. (MHz)	2480						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):22 Humidity(%):65									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	133.25	36.56	43.50	-6.94	46.18	-9.62	Peak	---	---
2	210.55	40.18	43.50	-3.32	51.87	-11.69	QP	100	252
3	367.44	32.92	46.00	-13.08	39.35	-6.43	Peak	---	---
4	474.88	43.60	46.00	-2.40	46.75	-3.15	QP	179	199
5	514.95	39.72	46.00	-6.28	42.01	-2.29	Peak	---	---
6	711.45	36.54	46.00	-9.46	34.89	1.65	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Vertical		

Test By : Akun Chung Temperature(°C): 22 Humidity(%): 65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.28	28.87	40.00	-11.13	37.94	-9.07	Peak	---	---
2	83.20	30.76	40.00	-9.24	44.73	-13.97	Peak	---	---
3	127.22	30.63	43.50	-12.87	40.67	-10.04	Peak	---	---
4	203.85	36.75	43.50	-6.75	48.47	-11.72	Peak	---	---
5	360.25	30.94	46.00	-15.06	37.60	-6.66	Peak	---	---
6	505.11	40.98	46.00	-5.02	43.51	-2.53	QP	100	320

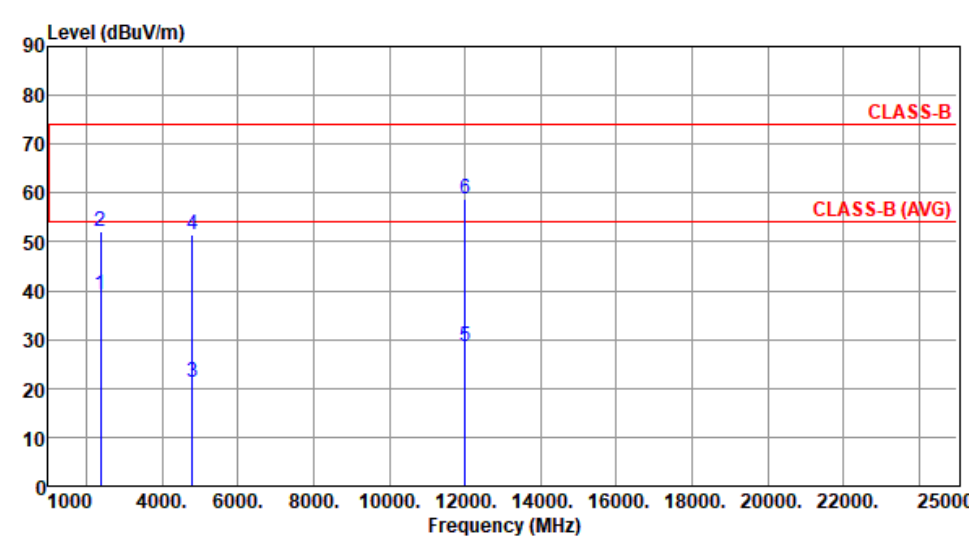
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

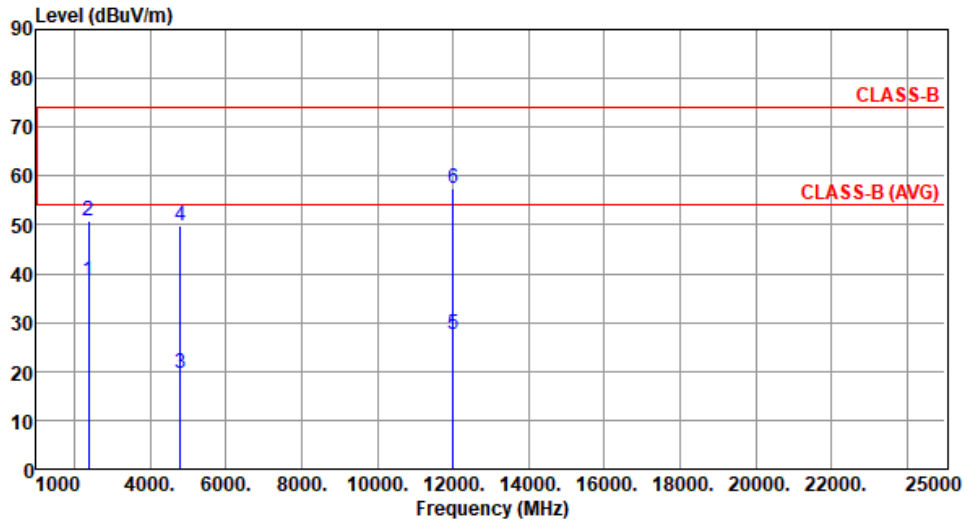
3.1.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for GFSK

Modulation	GFSK	Test Freq. (MHz)	2402						
Polarization	Horizontal								
Test By : Akun Chung Temperature(°C): 23 Humidity(%): 63									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	39.03	54.00	-14.97	40.52	-1.49	Average	100	165
2	2390.00	52.03	74.00	-21.97	53.52	-1.49	Peak	100	165
3	4804.00	21.36	54.00	-32.64	16.16	5.20	Average	123	144
4	4804.00	51.46	74.00	-22.54	46.26	5.20	Peak	123	144
5	12010.00	28.72	54.00	-25.28	13.98	14.74	Average	100	159
6	12010.00	58.82	74.00	-15.18	44.08	14.74	Peak	100	159

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Vertical		

Test By : Akun Chung Temperature(°C): 23 Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.67	54.00	-15.33	40.16	-1.49	Average	229	120
2	2390.00	50.67	74.00	-23.33	52.16	-1.49	Peak	229	120
3	4804.00	19.65	54.00	-34.35	14.45	5.20	Average	243	92
4	4804.00	49.75	74.00	-24.25	44.55	5.20	Peak	243	92
5	12010.00	27.51	54.00	-26.49	12.77	14.74	Average	100	100
6	12010.00	57.61	74.00	-16.39	42.87	14.74	Peak	100	100

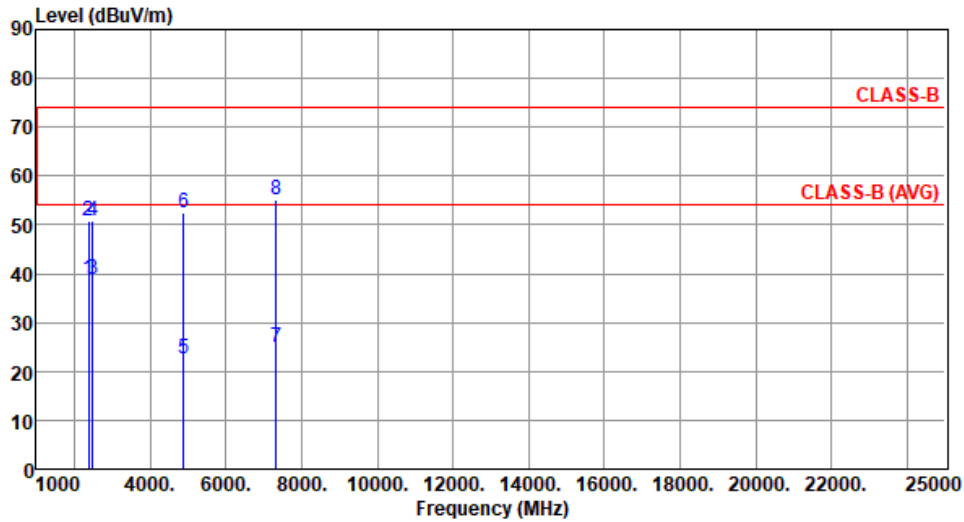
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Horizontal		

Test By : Akun Chung Temperature(°C): 23 Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.88	54.00	-15.12	40.37	-1.49	Average	100	157
2	2390.00	50.93	74.00	-23.07	52.42	-1.49	Peak	100	157
3	2483.50	38.83	54.00	-15.17	40.41	-1.58	Average	100	157
4	2483.50	50.92	74.00	-23.08	52.50	-1.58	Peak	100	157
5	4882.00	22.43	54.00	-31.57	17.11	5.32	Average	119	142
6	4882.00	52.53	74.00	-21.47	47.21	5.32	Peak	119	142
7	7323.00	25.03	54.00	-28.97	14.21	10.82	Average	100	149
8	7323.00	55.13	74.00	-18.87	44.31	10.82	Peak	100	149

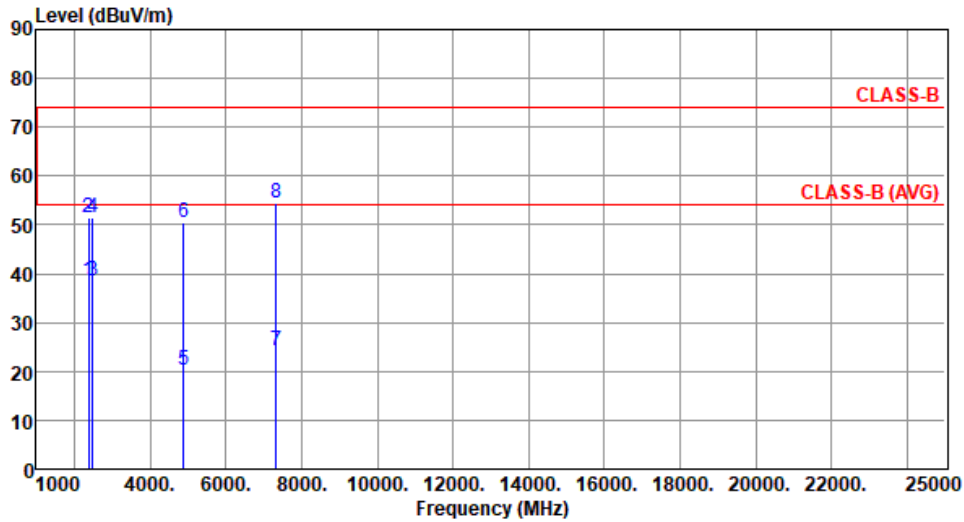
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Vertical		

Test By : Akun Chung Temperature(°C): 23 Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.53	54.00	-15.47	40.02	-1.49	Average	221	114
2	2390.00	51.43	74.00	-22.57	52.92	-1.49	Peak	221	114
3	2483.50	38.42	54.00	-15.58	40.00	-1.58	Average	221	114
4	2483.50	51.41	74.00	-22.59	52.99	-1.58	Peak	221	114
5	4882.00	20.33	54.00	-33.67	15.01	5.32	Average	243	92
6	4882.00	50.43	74.00	-23.57	45.11	5.32	Peak	243	92
7	7323.00	24.21	54.00	-29.79	13.39	10.82	Average	100	92
8	7323.00	54.31	74.00	-19.69	43.49	10.82	Peak	100	92

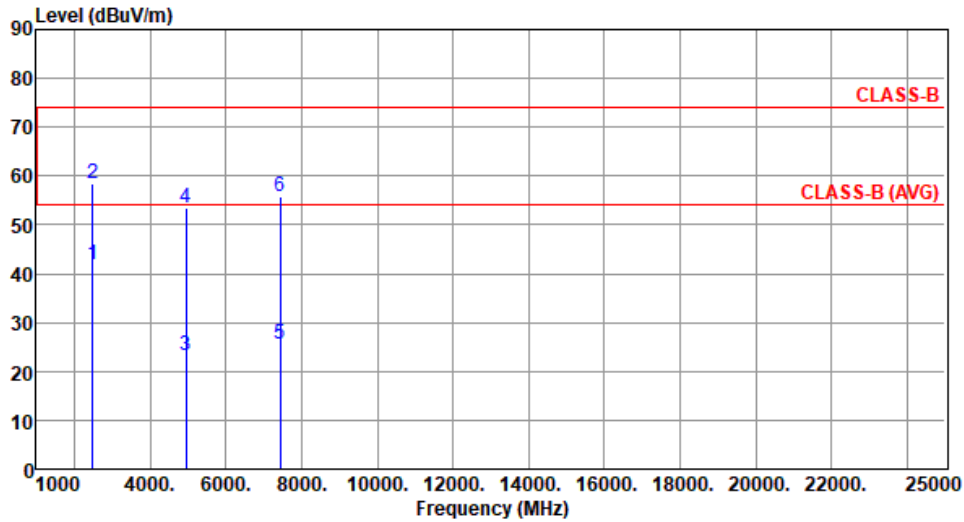
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Horizontal		

Test By :Akun Chung Temperature(°C):23 Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	41.98	54.00	-12.02	43.56	-1.58	Average	100	166
2	2483.50	58.57	74.00	-15.43	60.15	-1.58	Peak	100	166
3	4960.00	23.30	54.00	-30.70	17.59	5.71	Average	119	146
4	4960.00	53.40	74.00	-20.60	47.69	5.71	Peak	119	146
5	7440.00	25.56	54.00	-28.44	14.91	10.65	Average	100	154
6	7440.00	55.66	74.00	-18.34	45.01	10.65	Peak	100	154

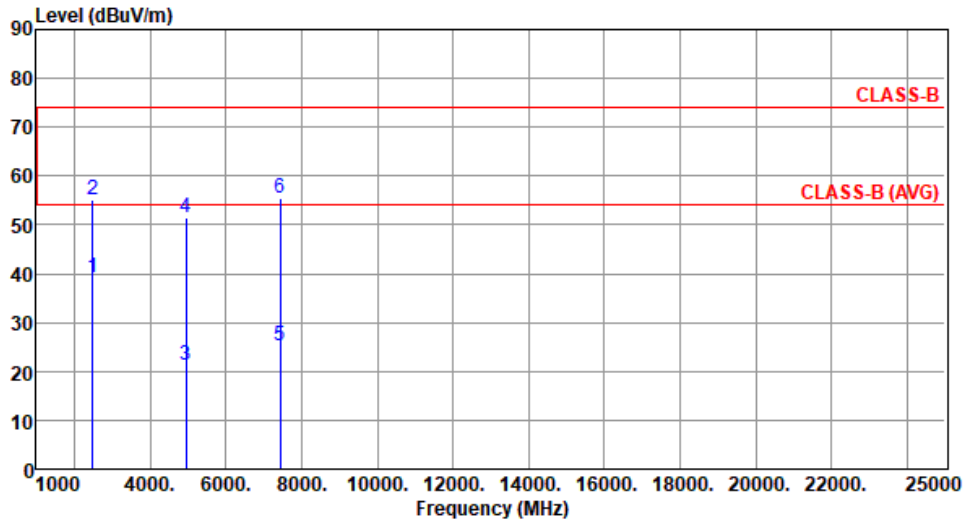
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Vertical		

Test By :Akun Chung Temperature(°C):23 Humidity(%):63



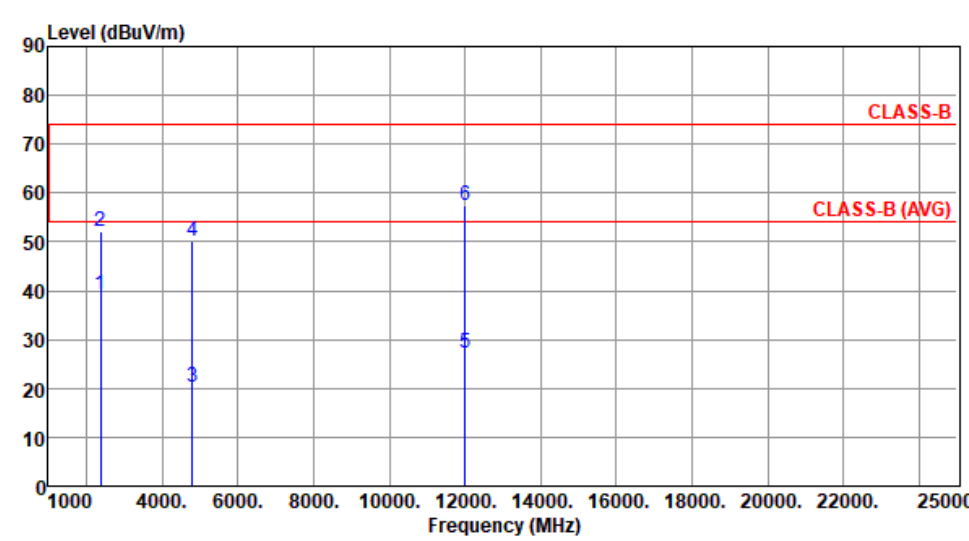
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	39.09	54.00	-14.91	40.67	-1.58	Average	224	111
2	2483.50	55.09	74.00	-18.91	56.67	-1.58	Peak	224	111
3	4960.00	21.22	54.00	-32.78	15.51	5.71	Average	239	94
4	4960.00	51.32	74.00	-22.68	45.61	5.71	Peak	239	94
5	7440.00	25.38	54.00	-28.62	14.73	10.65	Average	100	98
6	7440.00	55.48	74.00	-18.52	44.83	10.65	Peak	100	98

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

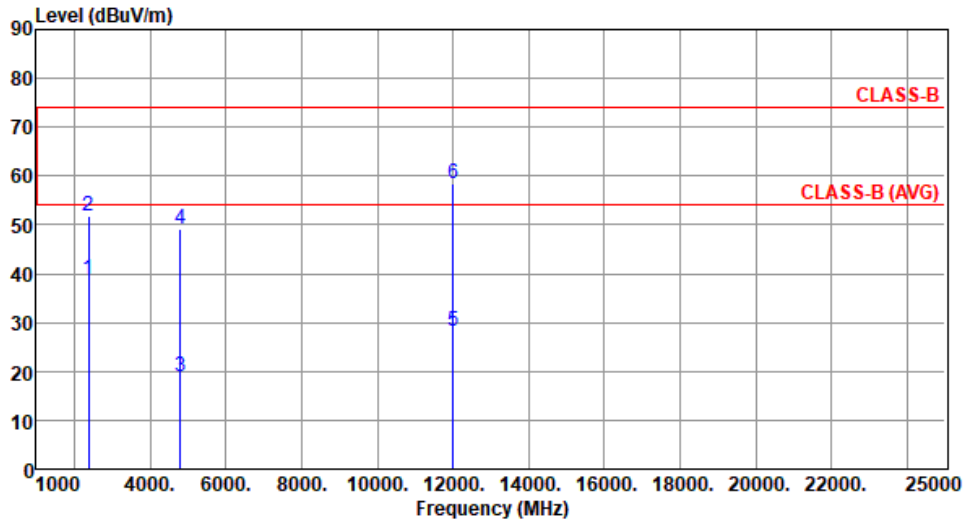
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.1.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 8DPSK

Modulation	8DPSK	Test Freq. (MHz)	2402						
Polarization	Horizontal								
Test By : Akun Chung Temperature(°C): 23 Humidity(%): 63									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	39.05	54.00	-14.95	40.54	-1.49	Average	100	157
2	2390.00	52.17	74.00	-21.83	53.66	-1.49	Peak	100	157
3	4804.00	20.16	54.00	-33.84	14.96	5.20	Average	101	139
4	4804.00	50.26	74.00	-23.74	45.06	5.20	Peak	101	139
5	12010.00	27.38	54.00	-26.62	12.64	14.74	Average	100	122
6	12010.00	57.48	74.00	-16.52	42.74	14.74	Peak	100	122
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

Modulation	8DPSK	Test Freq. (MHz)	2402
Polarization	Vertical		

Test By : Akun Chung Temperature(°C): 23 Humidity(%): 63



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.78	54.00	-15.22	40.27	-1.49	Average	227	109
2	2390.00	51.82	74.00	-22.18	53.31	-1.49	Peak	227	109
3	4804.00	18.97	54.00	-35.03	13.77	5.20	Average	205	106
4	4804.00	49.07	74.00	-24.93	43.87	5.20	Peak	205	106
5	12010.00	28.27	54.00	-25.73	13.53	14.74	Average	100	111
6	12010.00	58.37	74.00	-15.63	43.63	14.74	Peak	100	111

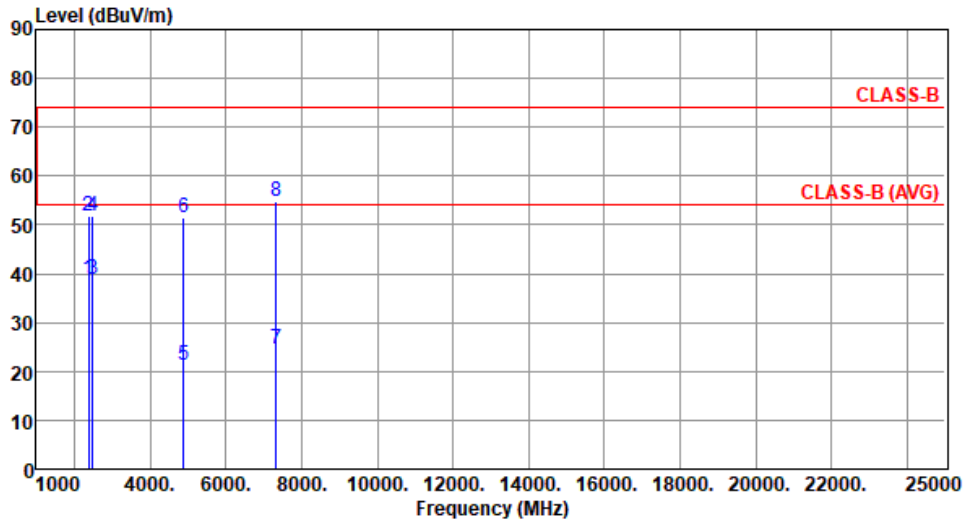
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	8DPSK	Test Freq. (MHz)	2441
Polarization	Horizontal		

Test By : Akun Chung Temperature(°C): 23 Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.83	54.00	-15.17	40.32	-1.49	Average	100	168
2	2390.00	51.81	74.00	-22.19	53.30	-1.49	Peak	100	168
3	2483.50	39.01	54.00	-14.99	40.59	-1.58	Average	100	168
4	2483.50	51.92	74.00	-22.08	53.50	-1.58	Peak	100	168
5	4882.00	21.24	54.00	-32.76	15.92	5.32	Average	102	139
6	4882.00	51.34	74.00	-22.66	46.02	5.32	Peak	102	139
7	7323.00	24.71	54.00	-29.29	13.89	10.82	Average	100	127
8	7323.00	54.81	74.00	-19.19	43.99	10.82	Peak	100	127

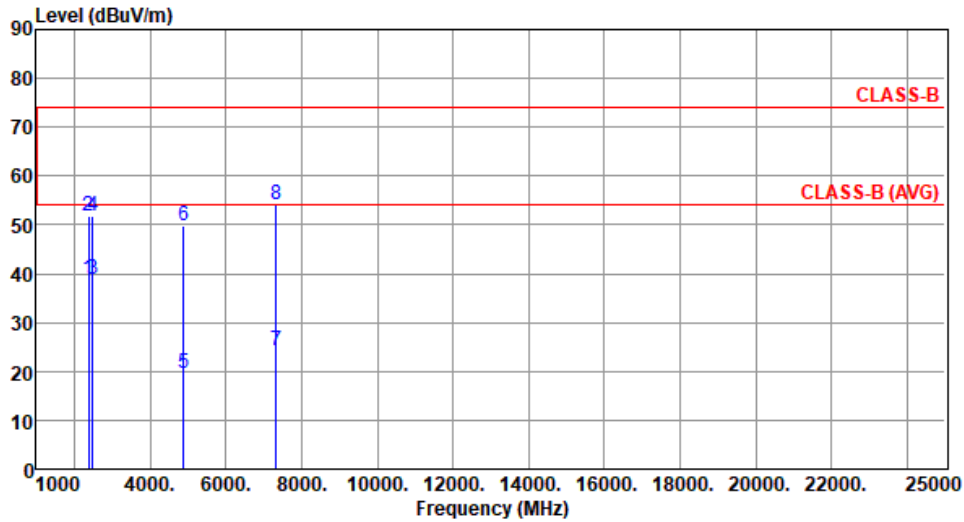
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	8DPSK	Test Freq. (MHz)	2441
Polarization	Vertical		

Test By :Akun Chung Temperature(°C):23 Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.72	54.00	-15.28	40.21	-1.49	Average	214	115
2	2390.00	51.90	74.00	-22.10	53.39	-1.49	Peak	214	115
3	2483.50	38.92	54.00	-15.08	40.50	-1.58	Average	214	115
4	2483.50	51.89	74.00	-22.11	53.47	-1.58	Peak	214	115
5	4882.00	19.73	54.00	-34.27	14.41	5.32	Average	228	97
6	4882.00	49.83	74.00	-24.17	44.51	5.32	Peak	228	97
7	7323.00	24.15	54.00	-29.85	13.33	10.82	Average	100	104
8	7323.00	54.25	74.00	-19.75	43.43	10.82	Peak	100	104

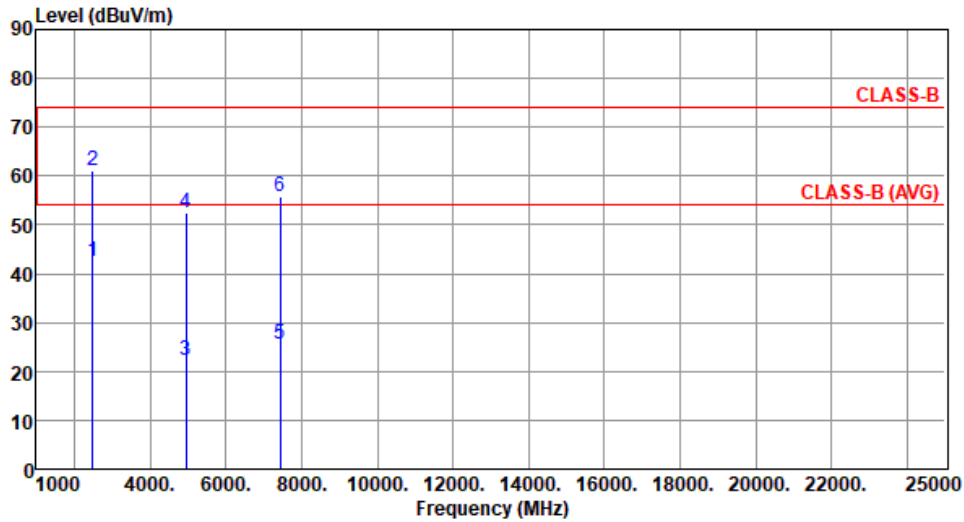
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	8DPSK	Test Freq. (MHz)	2480
Polarization	Horizontal		

Test By :Akun Chung Temperature(°C):23 Humidity(%):63



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	42.63	54.00	-11.37	44.21	-1.58	Average	100	164
2	2483.50	61.27	74.00	-12.73	62.85	-1.58	Peak	100	164
3	4960.00	22.29	54.00	-31.71	16.58	5.71	Average	104	132
4	4960.00	52.39	74.00	-21.61	46.68	5.71	Peak	104	132
5	7440.00	25.56	54.00	-28.44	14.91	10.65	Average	100	125
6	7440.00	55.66	74.00	-18.34	45.01	10.65	Peak	100	125

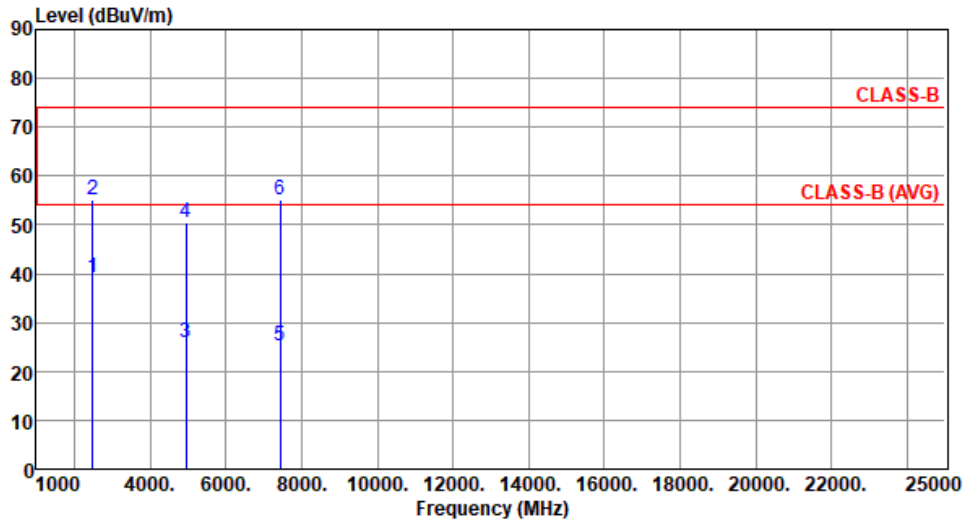
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	8DPSK	Test Freq. (MHz)	2480
Polarization	Vertical		

Test By : Akun Chung Temperature(°C): 23 Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	39.27	54.00	-14.73	40.85	-1.58	Average	225	110
2	2483.50	55.17	74.00	-18.83	56.75	-1.58	Peak	225	110
3	4960.00	25.87	54.00	-28.13	20.16	5.71	Average	217	101
4	4960.00	50.42	74.00	-23.58	44.71	5.71	Peak	217	101
5	7440.00	25.16	54.00	-28.84	14.51	10.65	Average	100	107
6	7440.00	55.26	74.00	-18.74	44.61	10.65	Peak	100	107

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.2 Unwanted Emissions into Non-Restricted Frequency Bands

3.2.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.2.2 Test Procedures

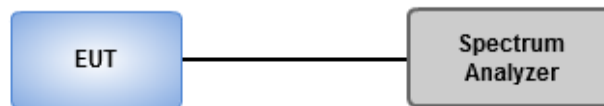
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

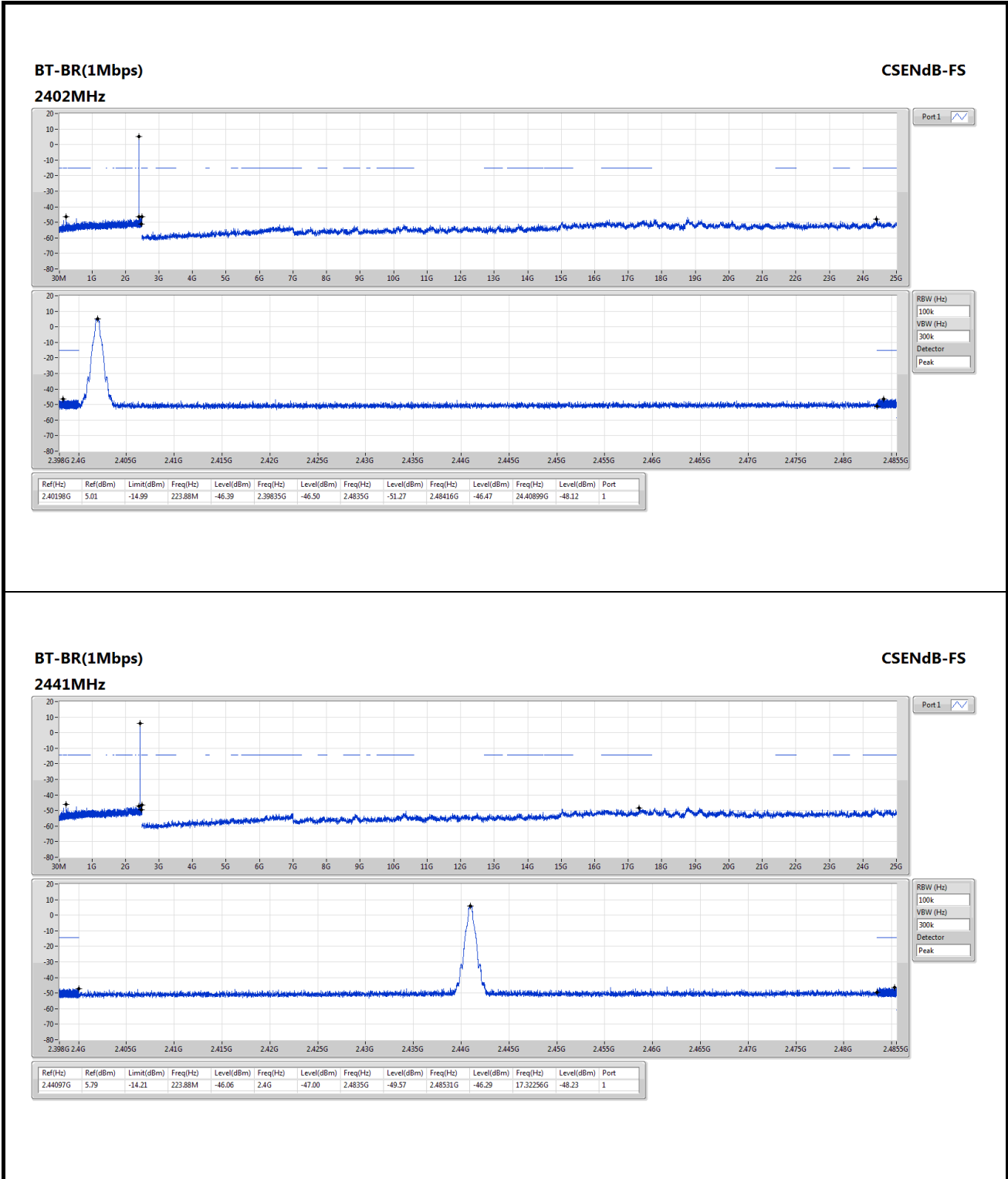
1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.2.3 Test Setup



3.2.4 Unwanted Emissions into Non-Restricted Frequency Bands

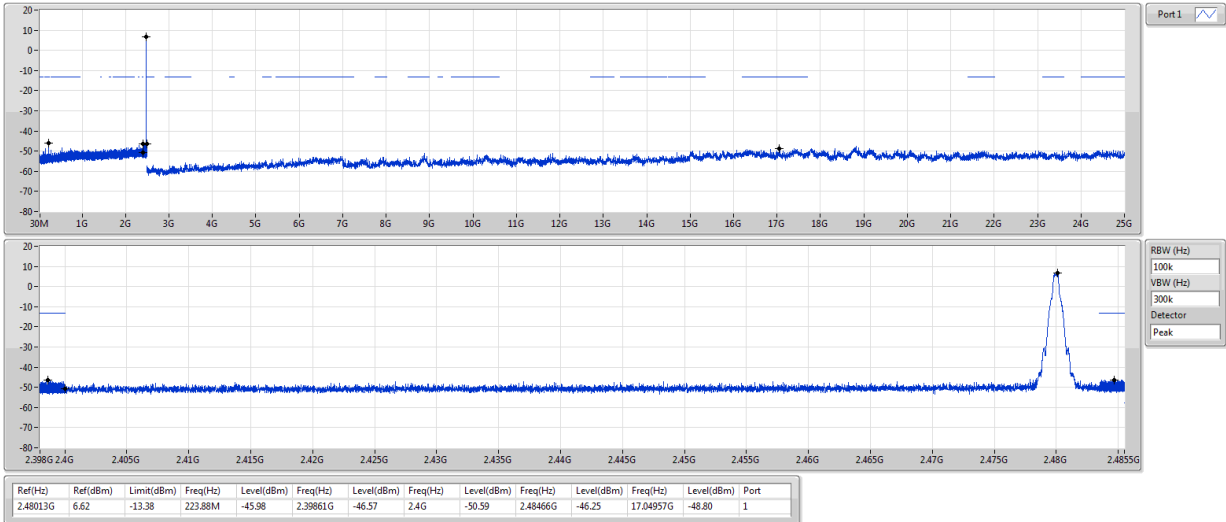
Ambient Condition	22°C / 68%	Tested By	Aska Huang
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BT-BR(1Mbps)

CSENdB-FS

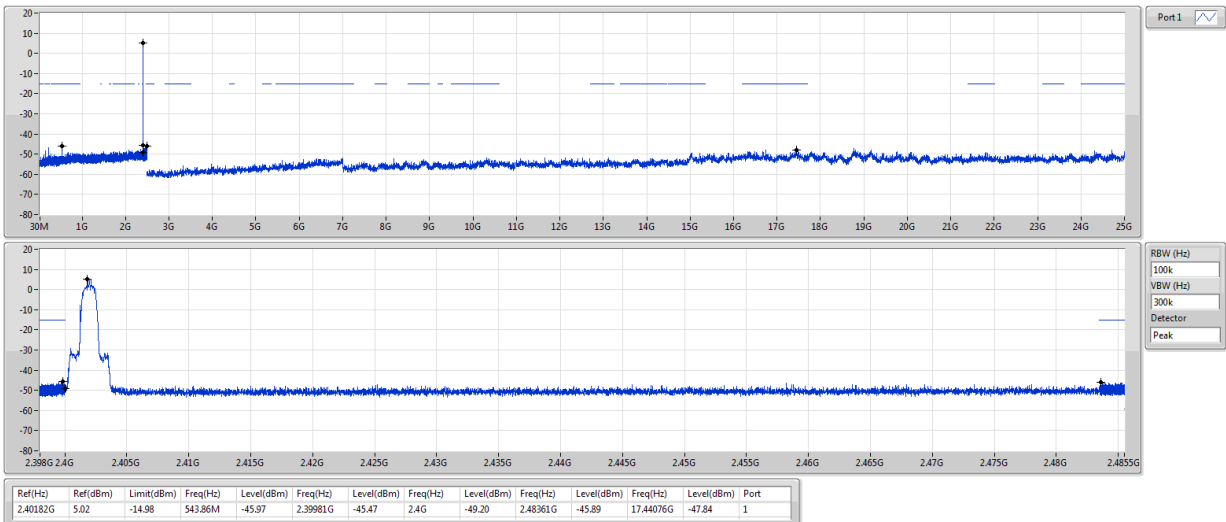
2480MHz



BT-EDR(2Mbps)

CSENdB-FS

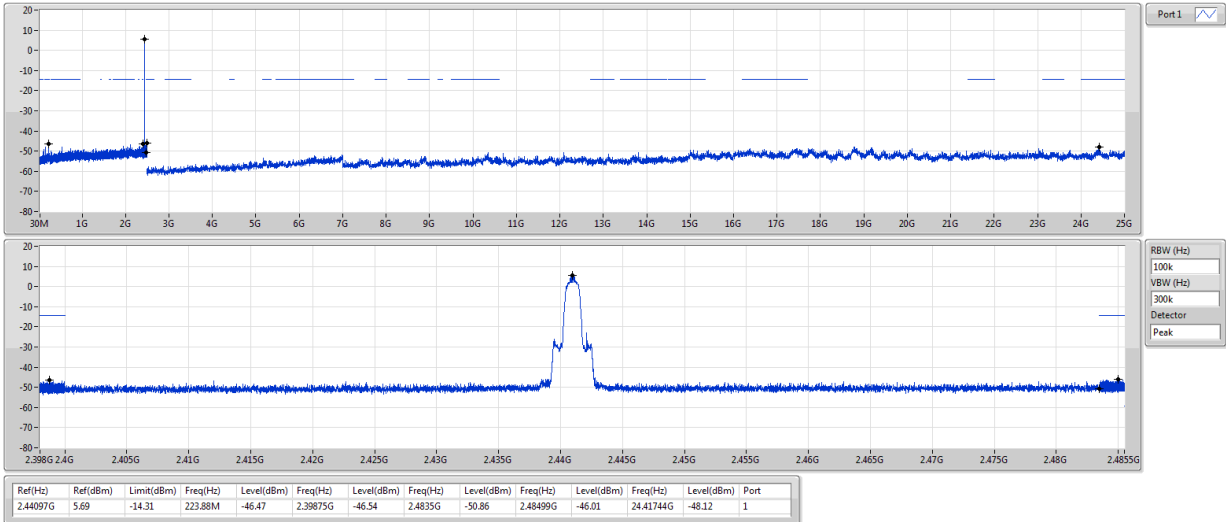
2402MHz



BT-EDR(2Mbps)

CSENdB-FS

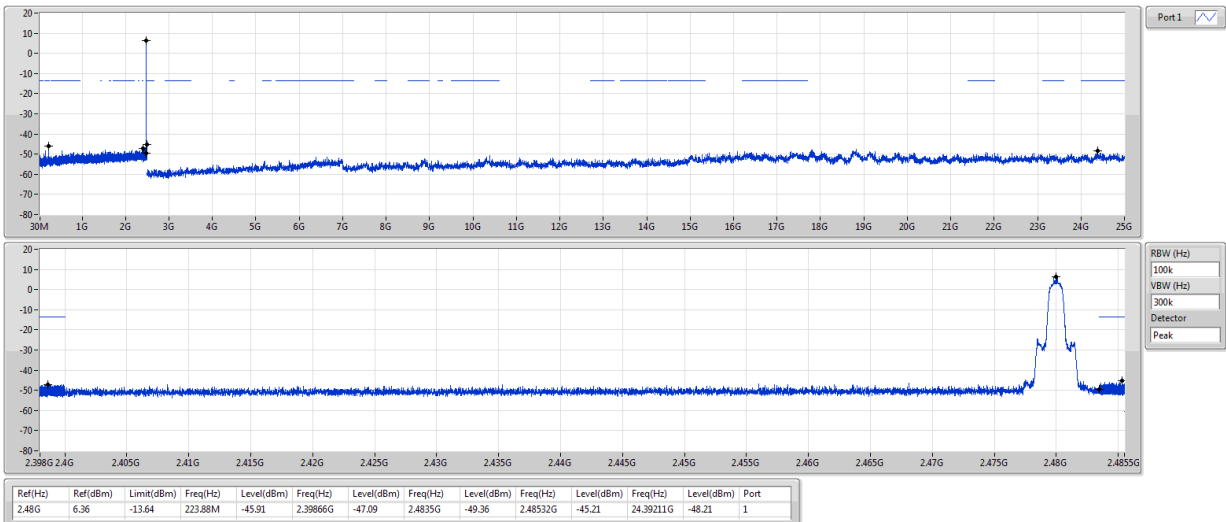
2441MHz



BT-EDR(2Mbps)

CSENdB-FS

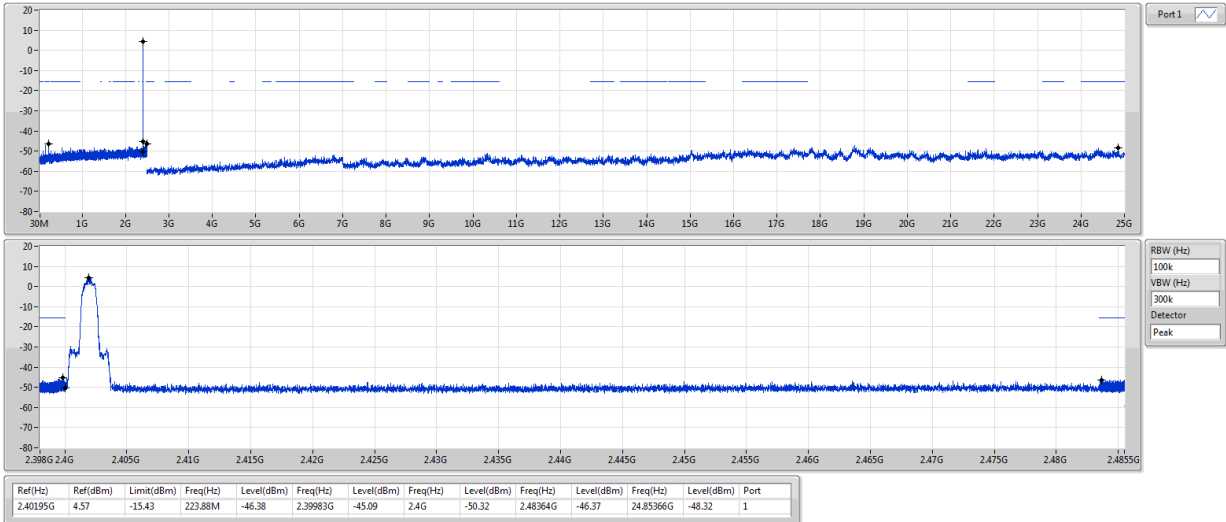
2480MHz



BT-EDR(3Mbps)

CSENdB-FS

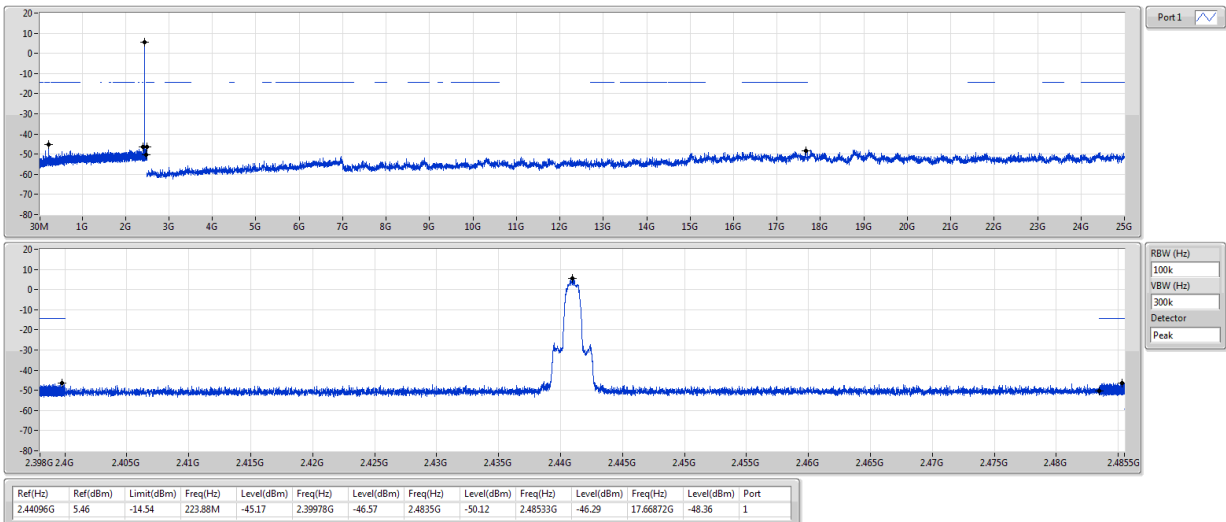
2402MHz

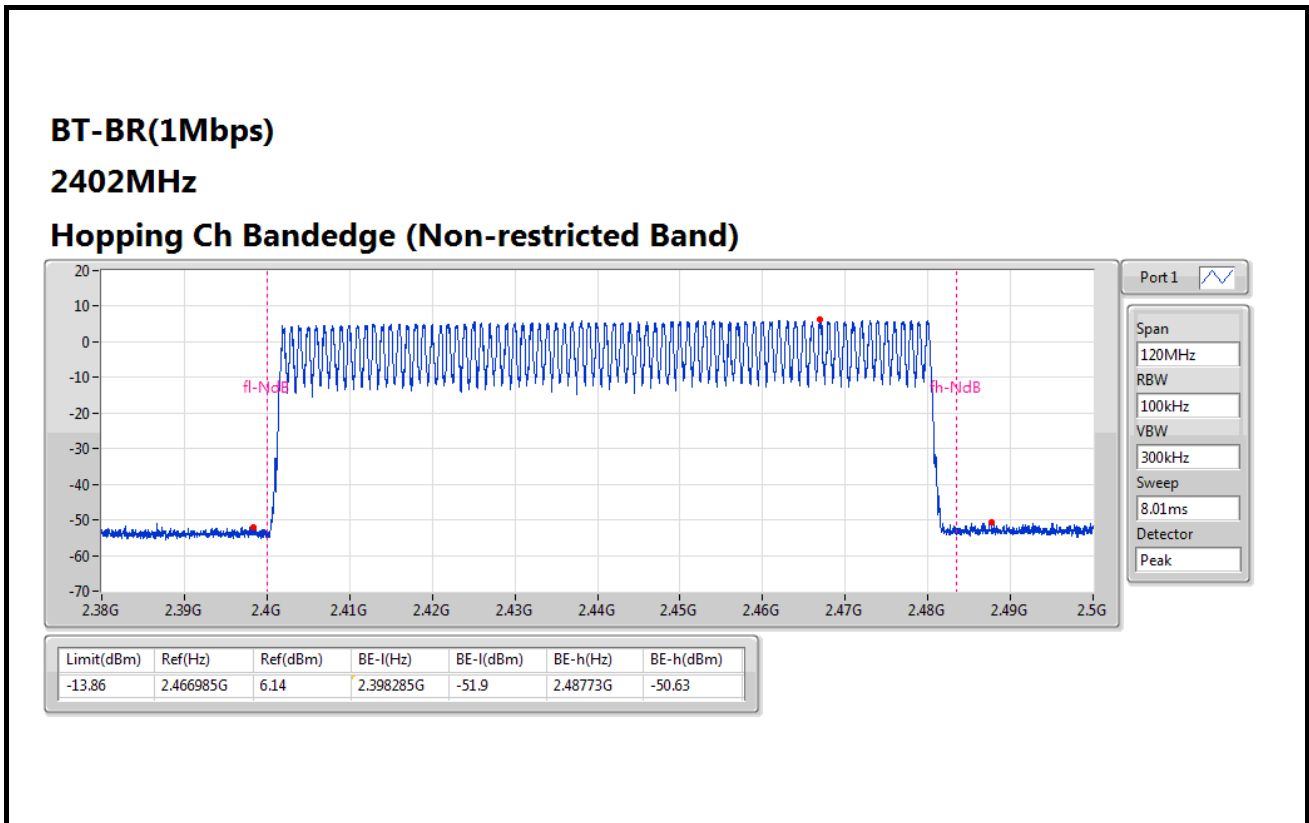
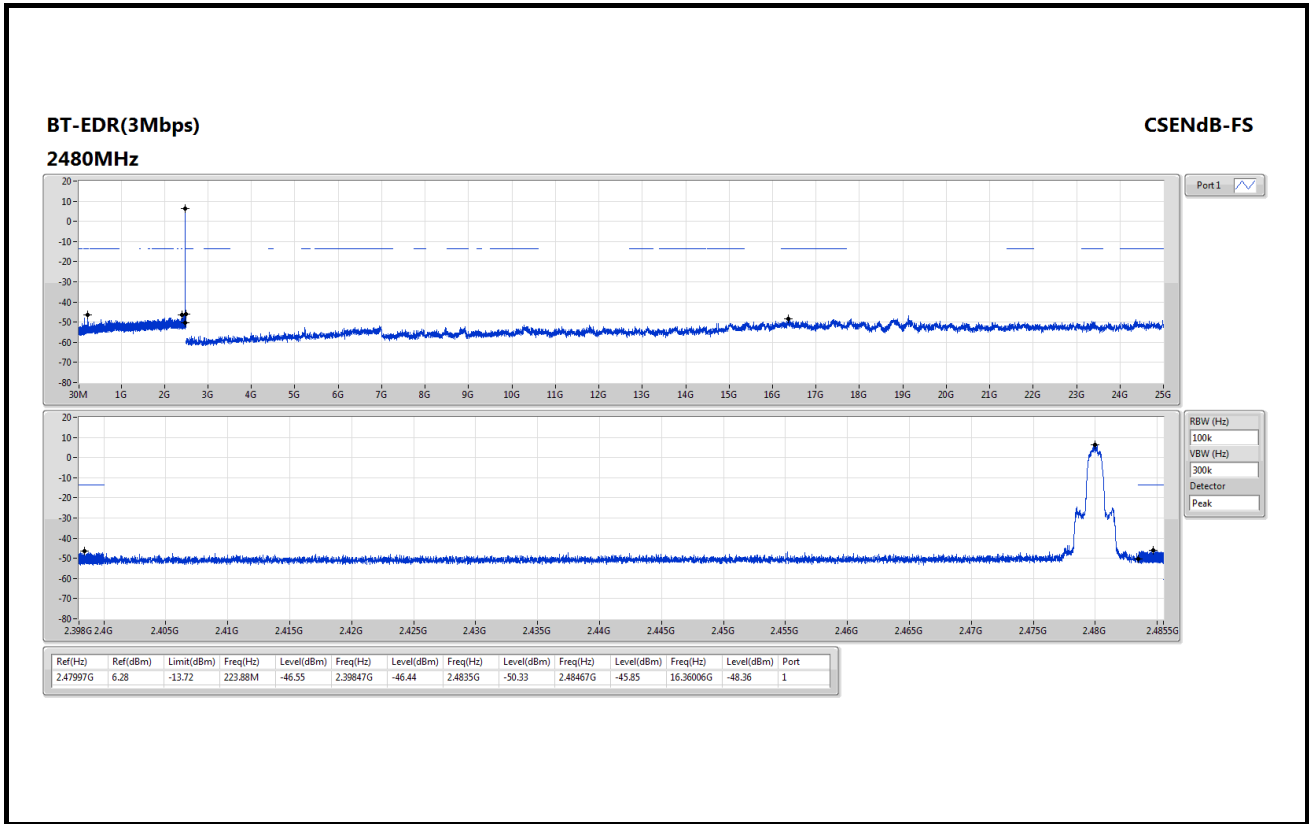


BT-EDR(3Mbps)

CSENdB-FS

2441MHz

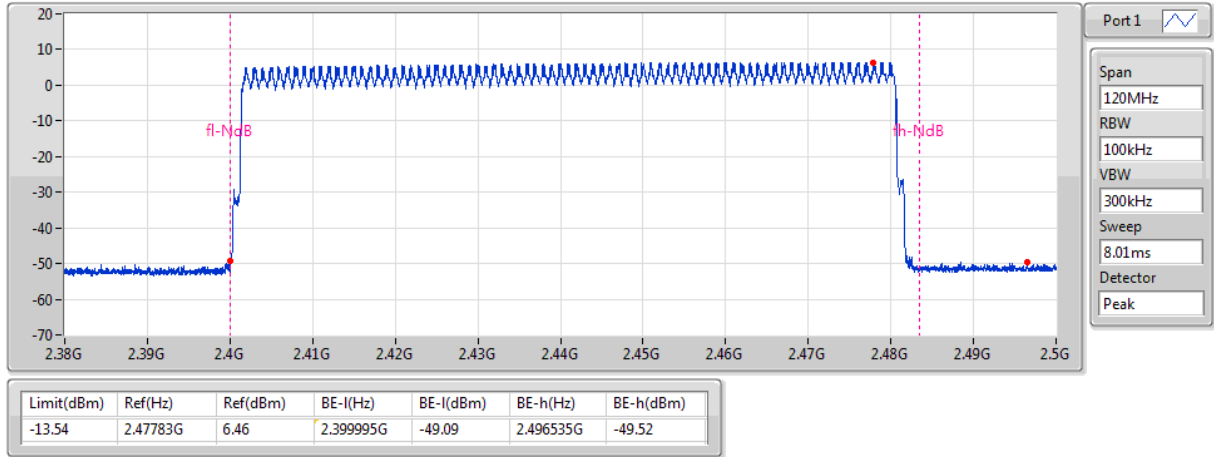




BT-EDR(2Mbps)

2402MHz

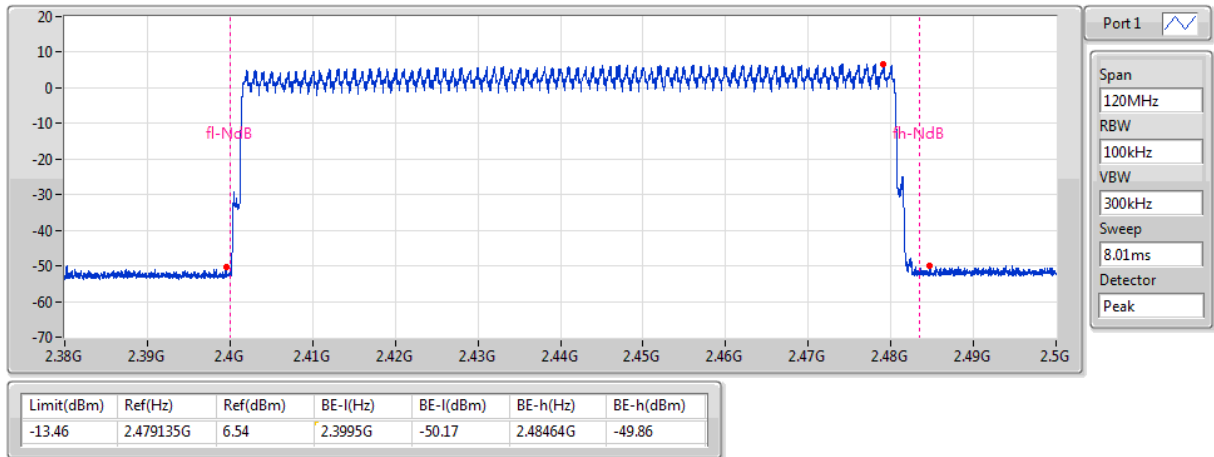
Hopping Ch Bandedge (Non-restricted Band)



BT-EDR(3Mbps)

2402MHz

Hopping Ch Bandedge (Non-restricted Band)



3.3 Conducted Output Power

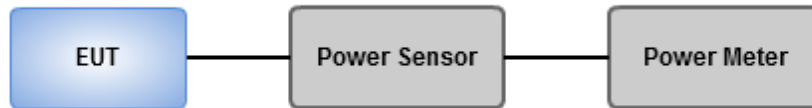
3.3.1 Limit of Conducted Output Power

- 1 Watt
For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band.
- 0.125 Watt
For all other frequency hopping systems in the 2400–2483.5 MHz band.
- 0.125 Watt
For Frequency hopping systems operating in the 2400–2483.5 MHz band have hopping channel carrier frequencies that are separated by two-thirds of the 20 dB bandwidth of the hopping channel.

3.3.2 Test Procedures

1. A wideband power meter is used for power measurement. Bandwidth of power sensor and meter is 50MHz
2. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power

3.3.3 Test Setup



3.3.4 Test Result of Conducted Output Power

Ambient Condition	22°C / 68%	Tested By	Aska Huang
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Summary of Peak Conducted Output Power

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	7.14	0.00518
BT-EDR(2Mbps)	8.33	0.00681
BT-EDR(3Mbps)	8.68	0.00738

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.55	5.51	21.00
2441MHz	Pass	2.55	6.52	21.00
2480MHz	Pass	2.55	7.14	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.55	7.13	21.00
2441MHz	Pass	2.55	7.94	21.00
2480MHz	Pass	2.55	8.33	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.55	7.54	21.00
2441MHz	Pass	2.55	8.29	21.00
2480MHz	Pass	2.55	8.68	21.00

Summary of Conducted (Average) Output Power

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.95	0.00495
BT-EDR(2Mbps)	6.35	0.00432
BT-EDR(3Mbps)	6.37	0.00434

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.55	5.30	-
2441MHz	Pass	2.55	6.35	-
2480MHz	Pass	2.55	6.95	-
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.55	4.76	-
2441MHz	Pass	2.55	5.78	-
2480MHz	Pass	2.55	6.35	-
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.55	4.89	-
2441MHz	Pass	2.55	5.80	-
2480MHz	Pass	2.55	6.37	-

Note: Average power is for reference only.

3.4 Number of Hopping Frequency

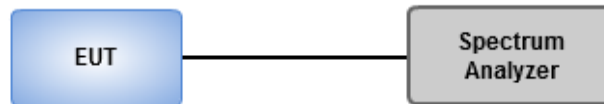
3.4.1 Limit of Number of Hopping Frequency

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

3.4.2 Test Procedures

1. Set RBW = 100kHz, VBW = 300kHz, Sweep time = Auto, Detector = Peak Trace max hold.
2. Allow trace to stabilize.

3.4.3 Test Setup



3.4.4 Test Result of Number of Hopping Frequency

Ambient Condition	22°C / 68%	Tested By	Aska Huang
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Summary

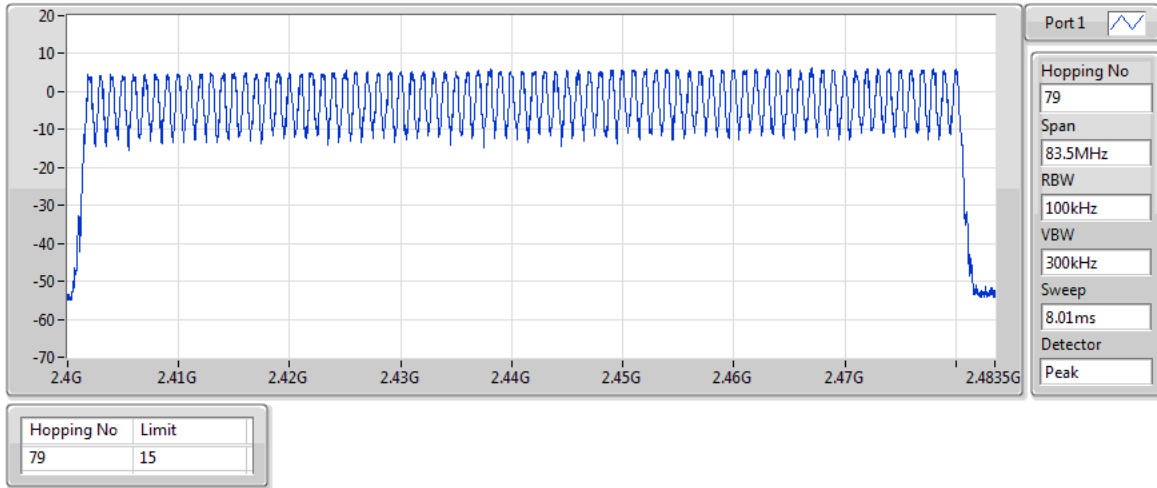
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

Result

Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2402MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2402MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2402MHz	Pass	79	15

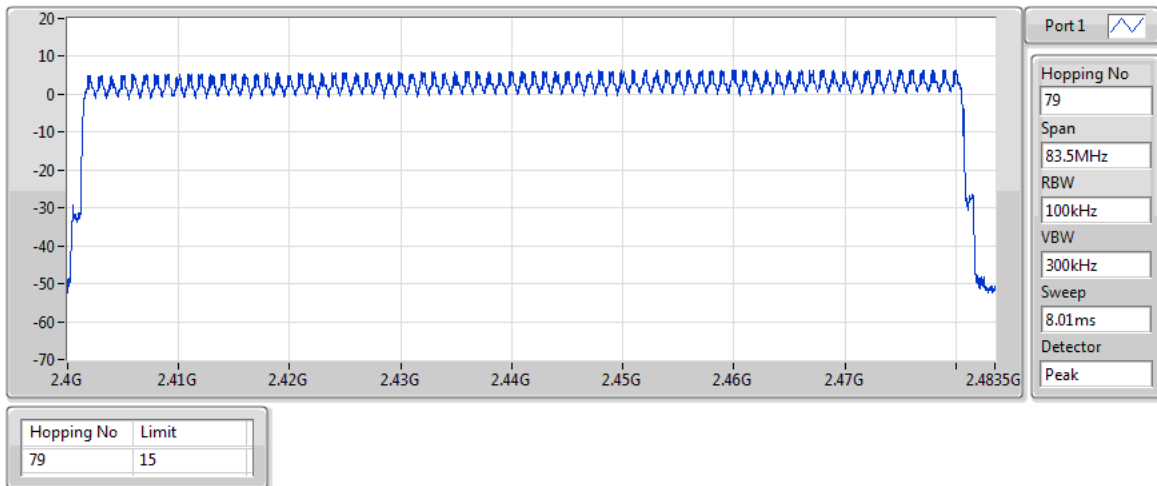
BT-BR(1Mbps)
2402MHz

Hopping-FS



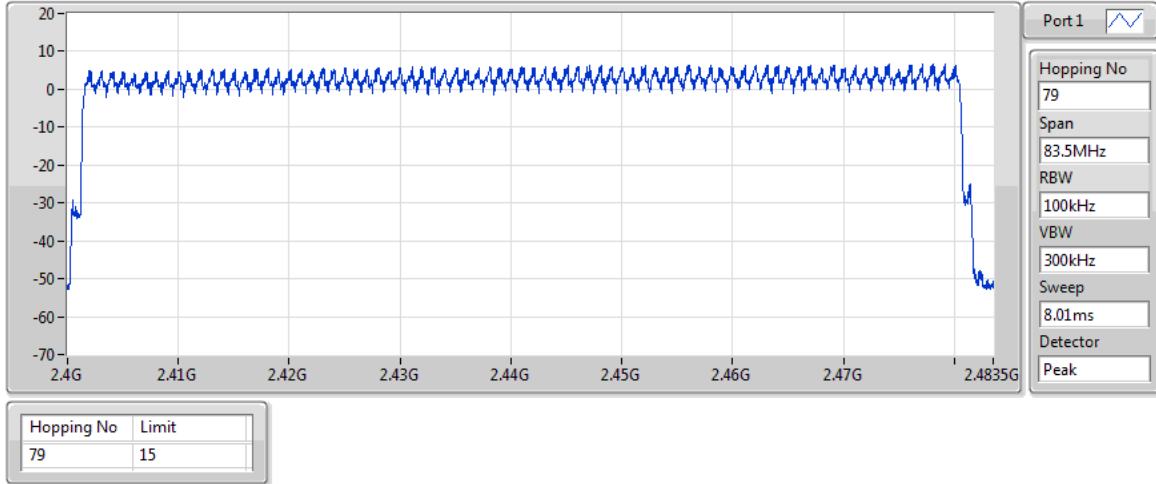
BT-EDR(2Mbps)
2402MHz

Hopping-FS



**BT-EDR(3Mbps)
2402MHz**

Hopping-FS



3.5 20dB and Occupied Bandwidth

3.5.1 Test Procedures

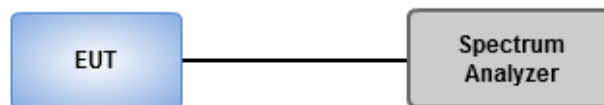
20dB Bandwidth

1. Set RBW=20kHz, VBW=100kHz, Sweep time = Auto, Detector=Peak , Trace max hold
2. Allow trace to stabilize
3. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set RBW=20kHz, VBW=100kHz, Sweep time = Auto, Detector=Sample , Trace max hold
2. Allow trace to stabilize
3. Use Occupied bandwidth function of spectrum analyzer to measuring 99% occupied bandwidth

3.5.2 Test Setup



3.5.3 Test result of 20dB and Occupied Bandwidth

Ambient Condition	22°C / 68%	Tested By	Aska Huang
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Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	971.014k	893.632k	894KF1D	934.783k	886.397k
BT-EDR(2Mbps)	1.333M	1.198M	1M20G1D	1.283M	1.19M
BT-EDR(3Mbps)	1.29M	1.194M	1M19G1D	1.257M	1.19M

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

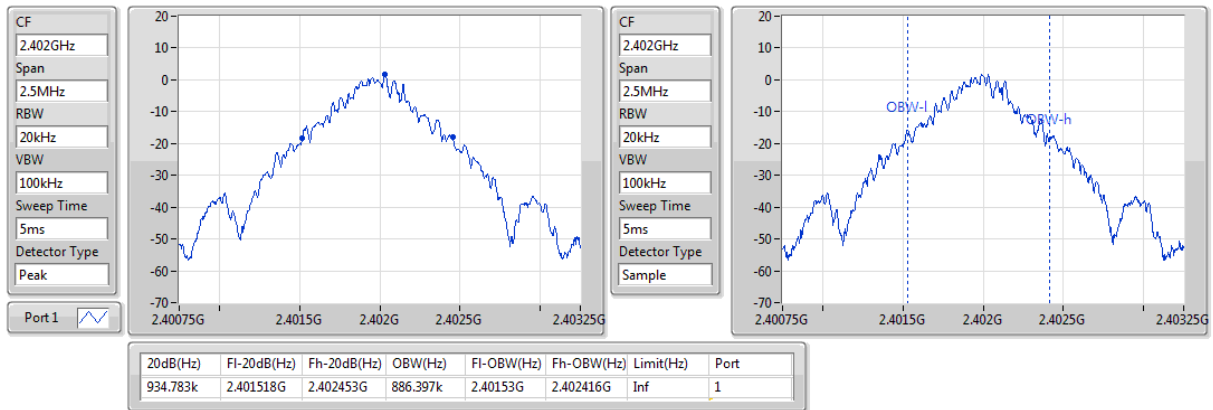
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	934.783k	886.397k
2441MHz	Pass	Inf	971.014k	893.632k
2480MHz	Pass	Inf	938.406k	893.632k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.283M	1.19M
2441MHz	Pass	Inf	1.333M	1.19M
2480MHz	Pass	Inf	1.308M	1.198M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.257M	1.19M
2441MHz	Pass	Inf	1.29M	1.194M
2480MHz	Pass	Inf	1.264M	1.19M

Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-BR(1Mbps)

EBW-FS

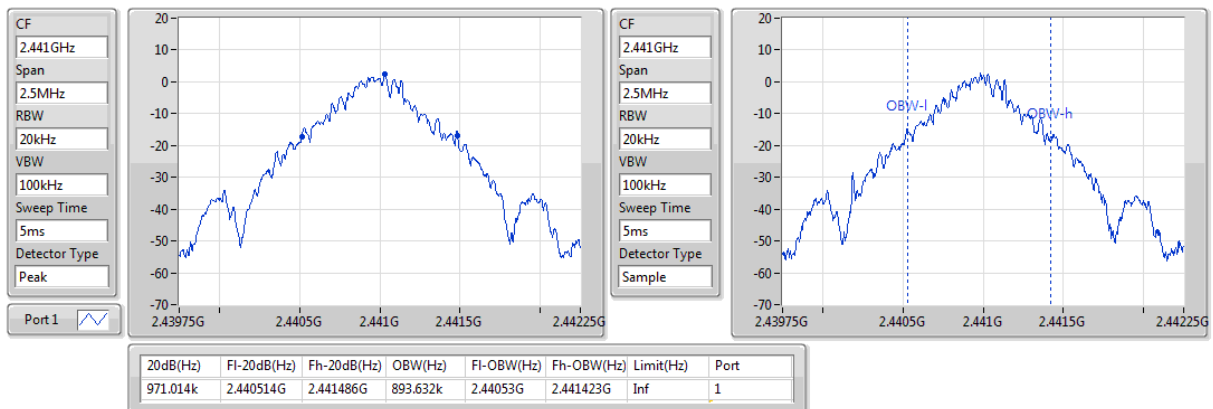
2402MHz



BT-BR(1Mbps)

EBW-FS

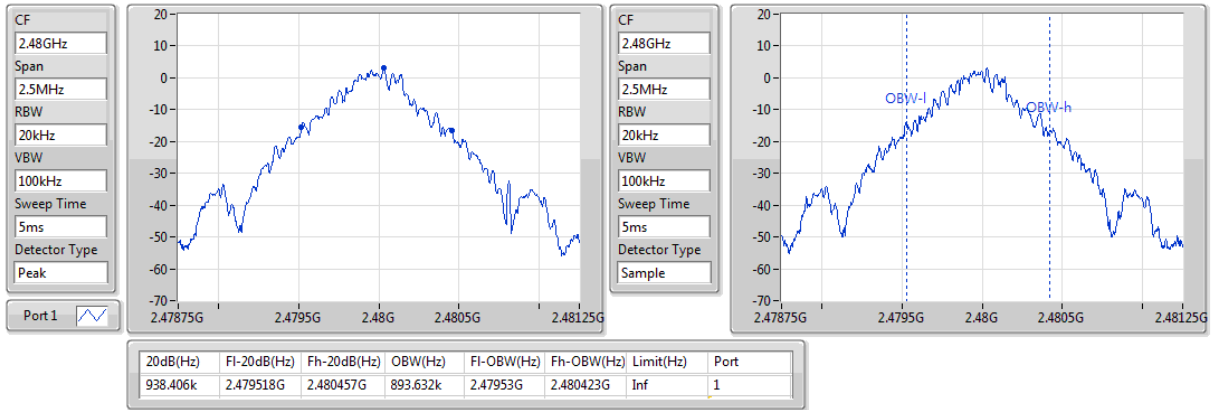
2441MHz



BT-BR(1Mbps)

EBW-FS

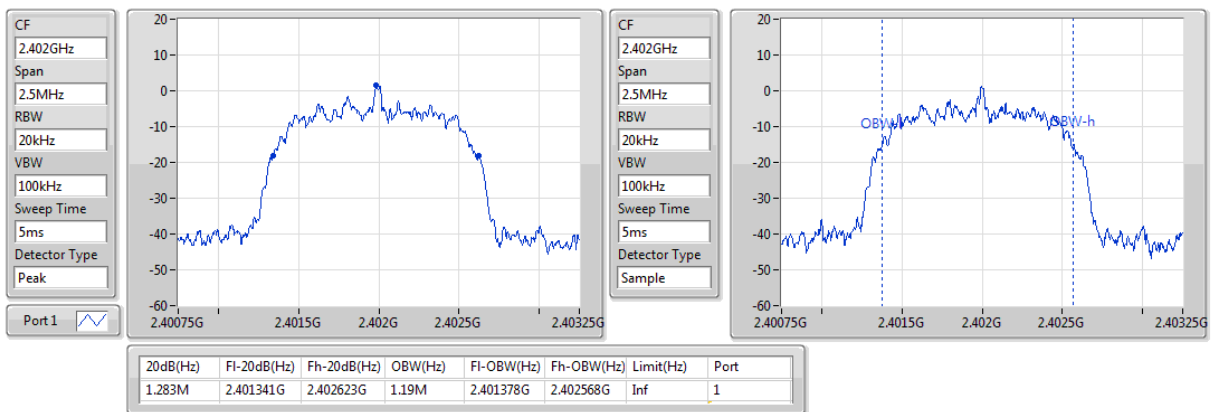
2480MHz



BT-EDR(2Mbps)

EBW-FS

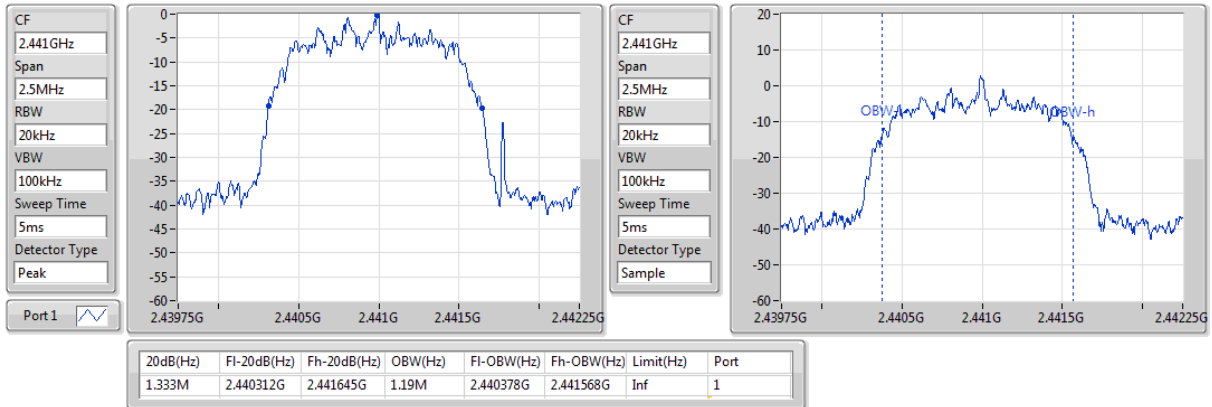
2402MHz



BT-EDR(2Mbps)

EBW-FS

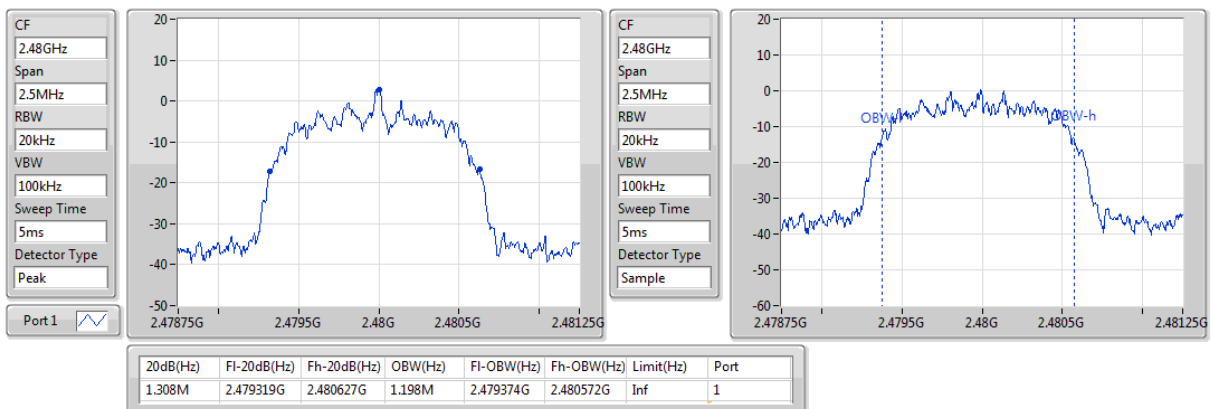
2441MHz



BT-EDR(2Mbps)

EBW-FS

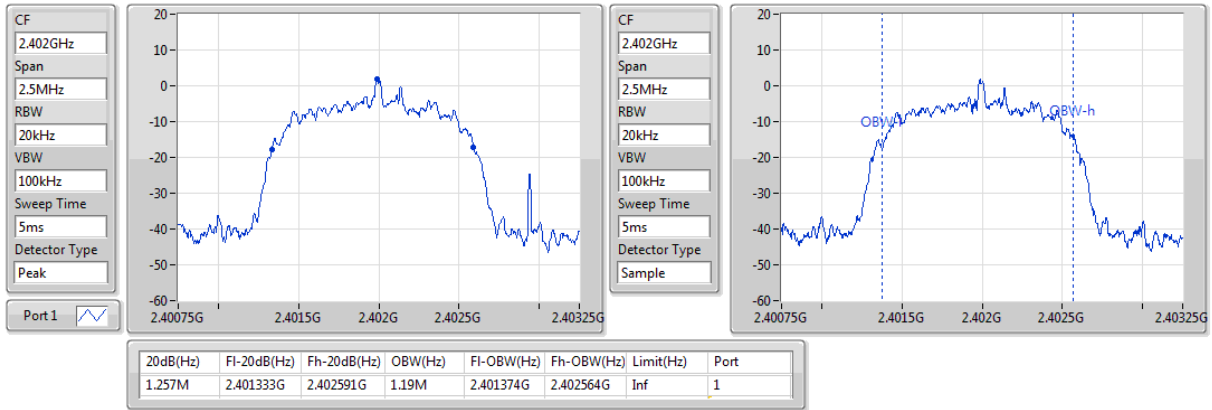
2480MHz



BT-EDR(3Mbps)

EBW-FS

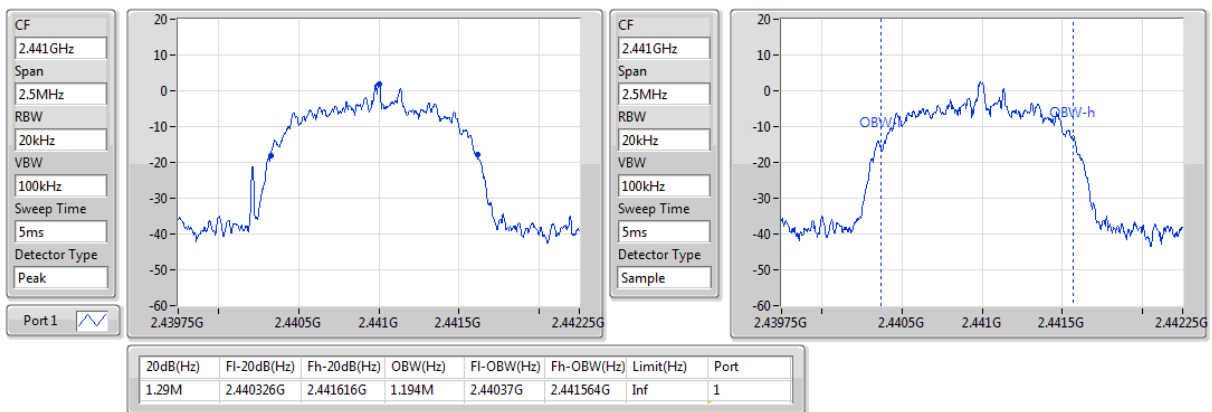
2402MHz



BT-EDR(3Mbps)

EBW-FS

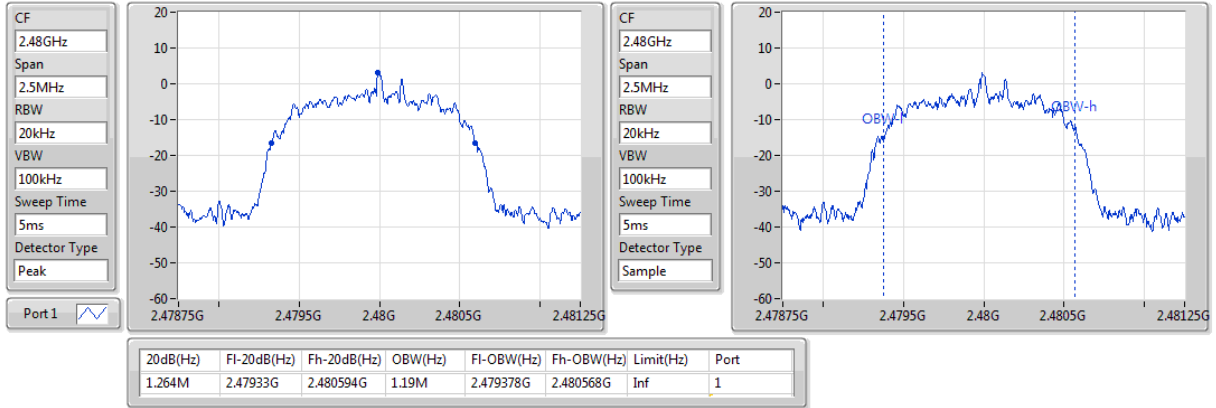
2441MHz



BT-EDR(3Mbps)

EBW-FS

2480MHz



3.6 Channel Separation

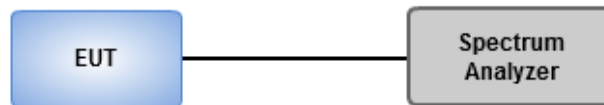
3.6.1 Limit of Channel Separation

- 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.
- 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.

3.6.2 Test Procedures

1. Set RBW=30kHz, VBW=100kHz, Sweep time = Auto, Detector=Peak Trace max hold
2. Allow trace to stabilize
3. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The EUT shall show compliance with the appropriate regulatory limit

3.6.3 Test Setup



3.6.4 Test result of Channel Separation

Ambient Condition	22°C / 68%	Tested By	Aska Huang
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Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.004348M	1M
BT-EDR(2Mbps)	1.004348M	1M
BT-EDR(3Mbps)	1.004348M	1M

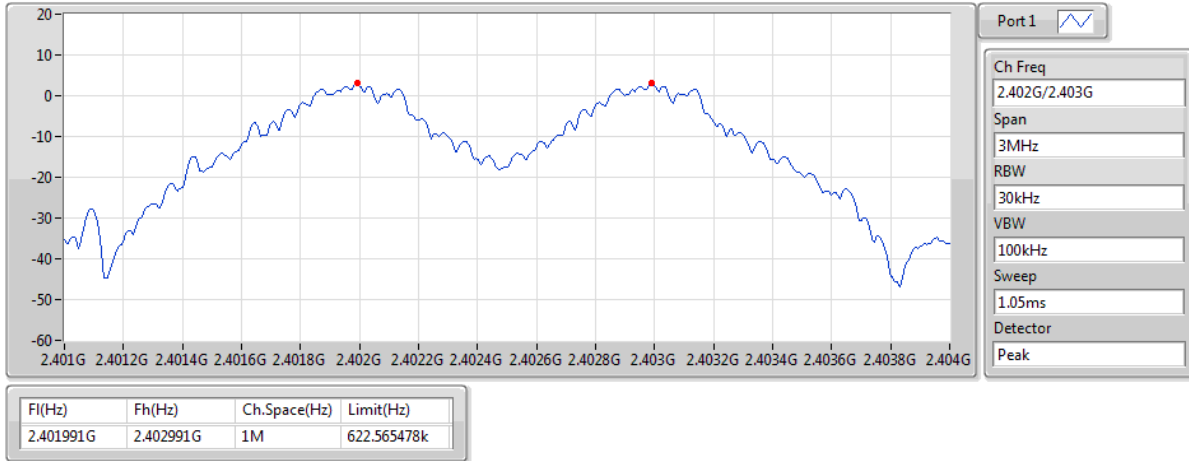
Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.401991G	2.402991G	1M	622.565478k
2441MHz	Pass	2.440991G	2.441991G	1M	646.695324k
2480MHz	Pass	2.478987G	2.479991G	1.004348M	624.978396k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.401991G	2.402991G	1M	854.478k
2441MHz	Pass	2.440991G	2.441991G	1M	887.778k
2480MHz	Pass	2.478987G	2.479991G	1.004348M	871.128k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.401991G	2.402991G	1M	837.162k
2441MHz	Pass	2.440991G	2.441991G	1M	859.14k
2480MHz	Pass	2.478987G	2.479991G	1.004348M	841.824k

BT-BR(1Mbps)

Channel Separation-FS

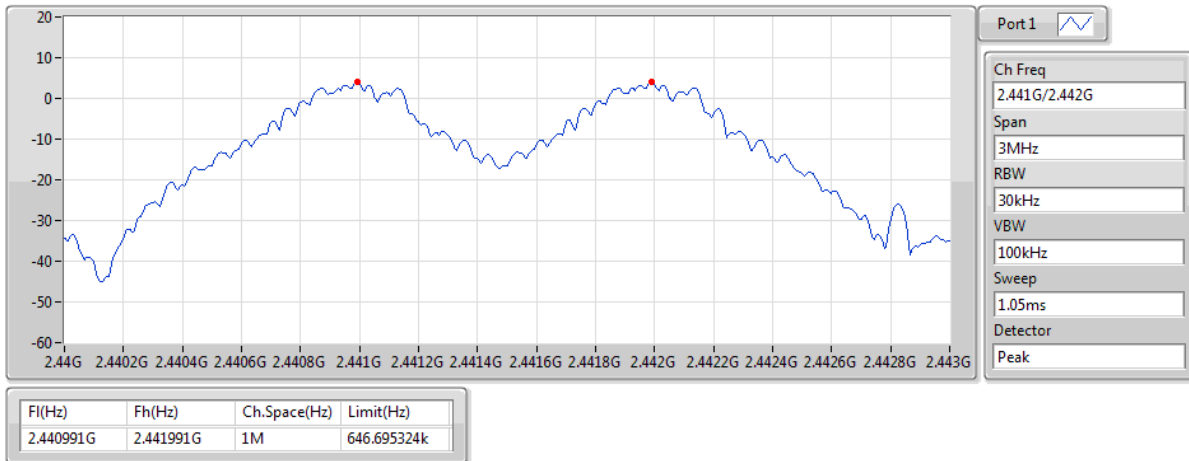
2.402G/2.403GHz



BT-BR(1Mbps)

Channel Separation-FS

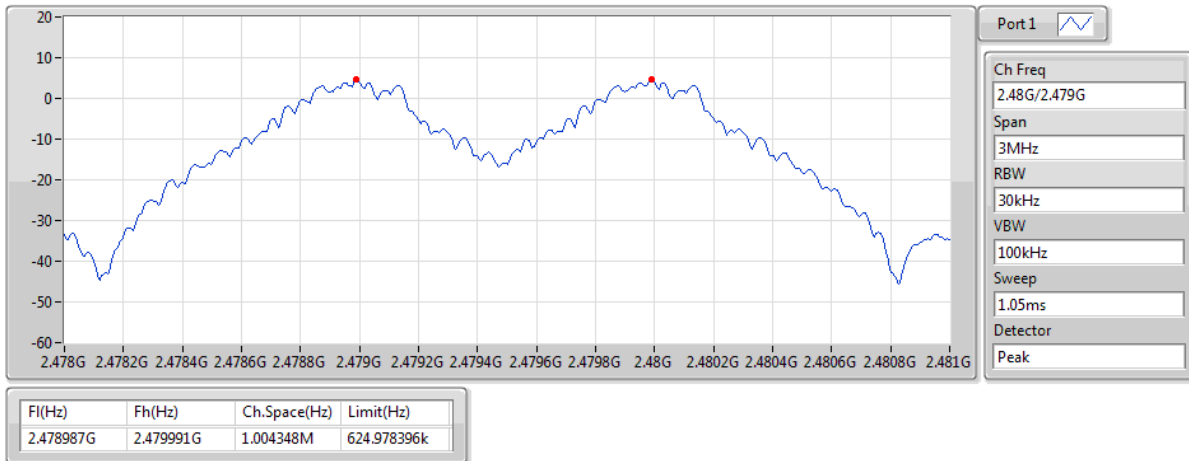
2.441G/2.442GHz



BT-BR(1Mbps)

Channel Separation-FS

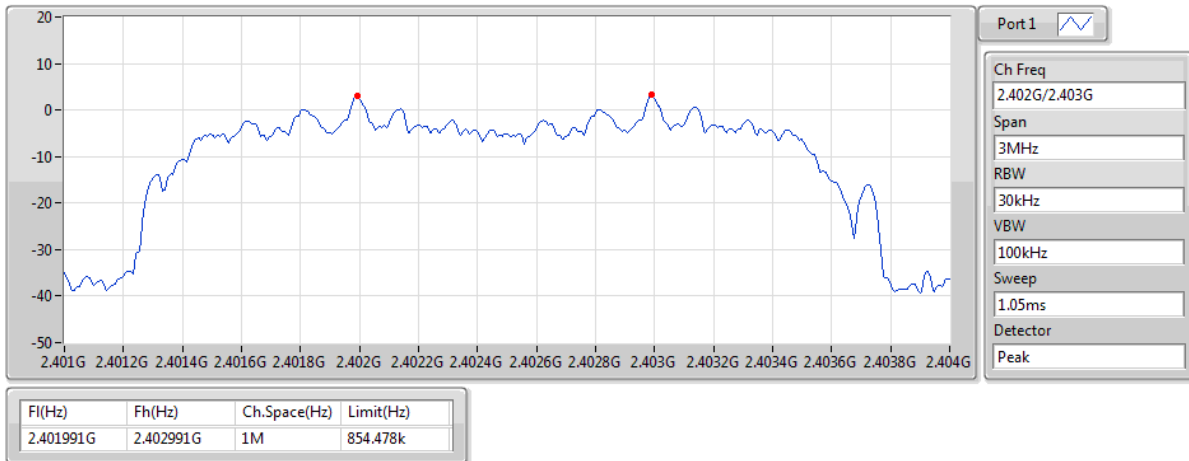
2.48G/2.479GHz



BT-EDR(2Mbps)

Channel Separation-FS

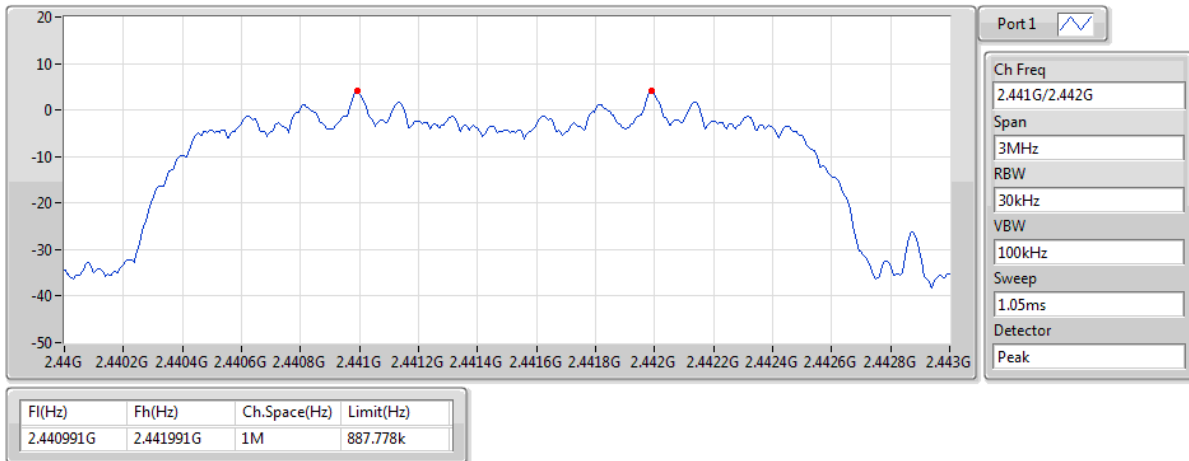
2.402G/2.403GHz



BT-EDR(2Mbps)

Channel Separation-FS

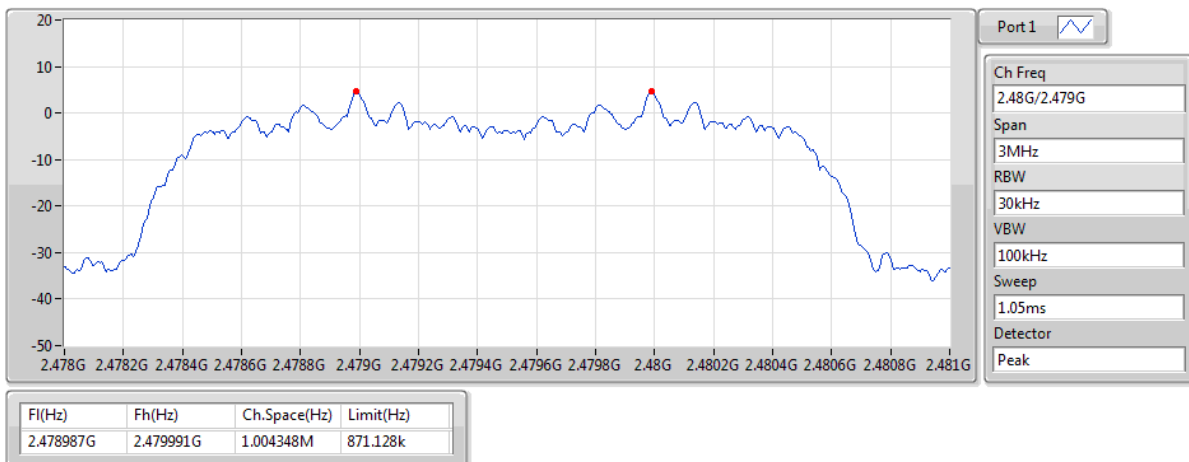
2.441G/2.442GHz



BT-EDR(2Mbps)

Channel Separation-FS

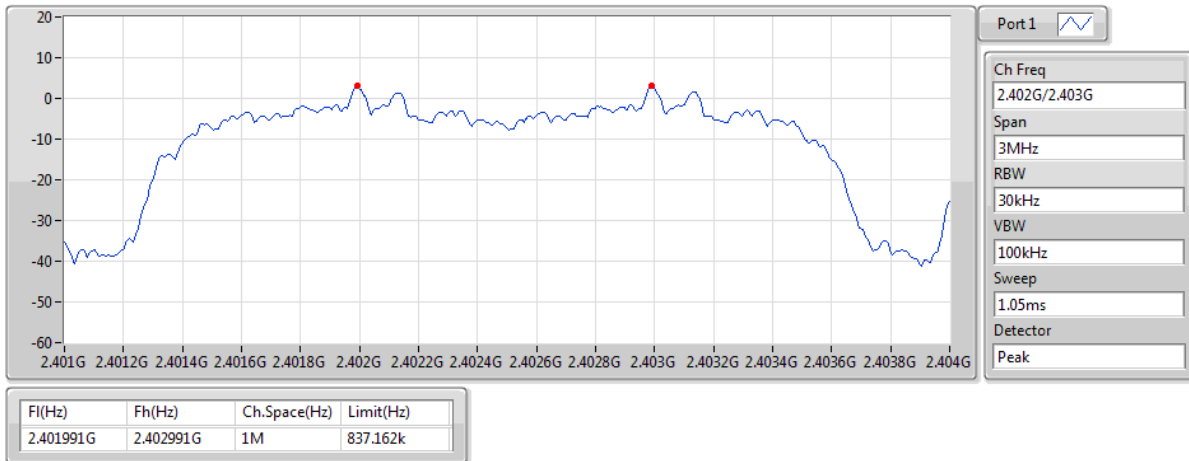
2.48G/2.479GHz



BT-EDR(3Mbps)

Channel Separation-FS

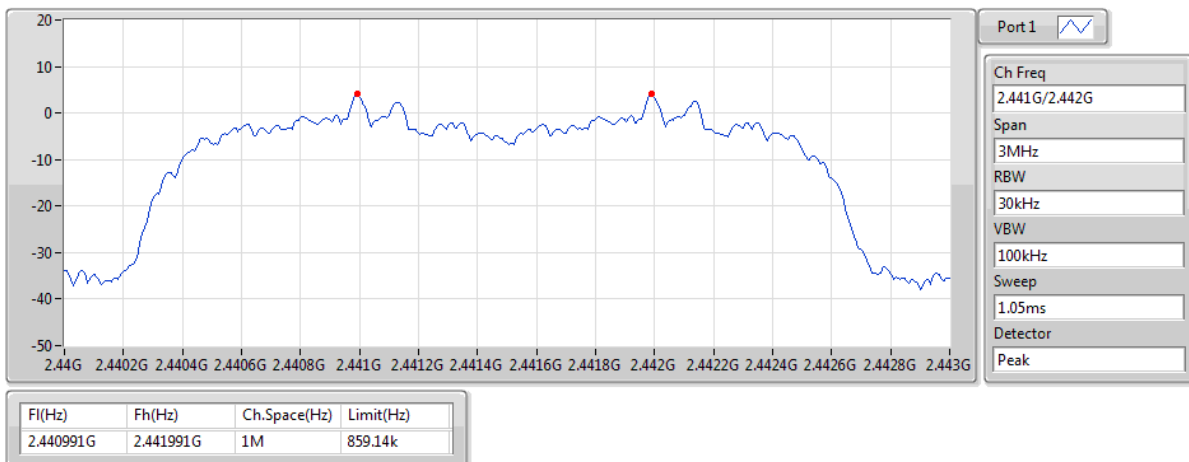
2.402G/2.403GHz



BT-EDR(3Mbps)

Channel Separation-FS

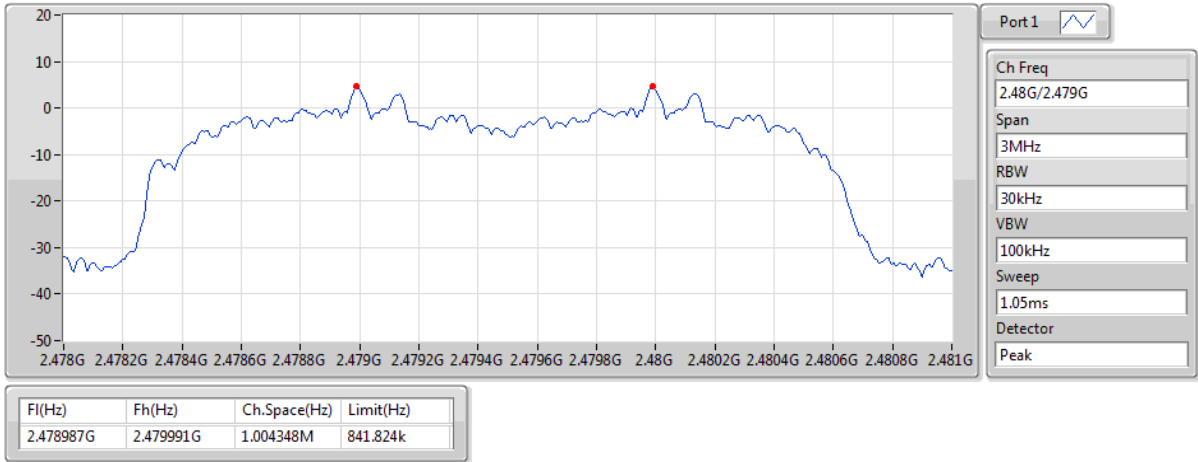
2.441G/2.442GHz



BT-EDR(3Mbps)

Channel Separation-FS

2.48G/2.479GHz



3.7 Number of Dwell Time

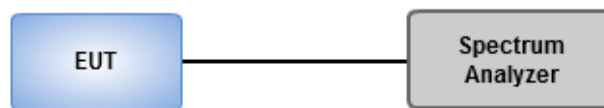
3.7.1 Limit of Dwell time

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

3.7.2 Test Procedures

1. Set RBW=300 kHz, VBW=1 MHz, Sweep time=8 ms, Detector=Peak, Span=0 Hz, Trace max hold.
2. Enable gating and trigger function of spectrum analyzer to measure burst on time.
3. Set RBW=300 kHz, VBW=1 MHz, Sweep time=5 s / 2 s, Detector=Peak, Span=0 Hz, Trace max hold.
4. Enable gating and trigger function of spectrum analyzer to measure burst on number of transmission.
5. Set RBW=300 kHz, VBW=1 MHz, Sweep time=31.6 s / 8 s, Detector=Peak, Span=0 Hz, Trace max hold.
6. Enable gating and trigger function of spectrum analyzer to measure burst on number of transmission of entire time cycle.

3.7.3 Test Setup



3.7.4 Test Result of Dwell Time

Ambient Condition	22°C / 68%	Tested By	Aska Huang
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Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	347.6316m_DH5
BT-EDR(2Mbps)	311.41484m_DH5
BT-EDR(3Mbps)	348.29204m_DH5
BT-BR-AFH(1Mbps)	313.092m_DH5-AFH
BT-EDR-AFH(2Mbps)	289.875m_DH5-AFH
BT-EDR-AFH(3Mbps)	290.05m_DH5-AFH

Result/ Non AFH mode

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (ms)	Number of transmission in a 5 s
BT-BR(1Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	31.6	0.34763	0.4	2.89500	19
BT-EDR(2Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	31.6	0.31141	0.4	2.89850	17
BT-EDR(3Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	31.6	0.34829	0.4	2.90050	19

Note 1: Dwell time =Number of transmission in a 5 second x Tx On Time x 6.32

Note 2: DH5 was the worst mode.

Result/ AFH mode

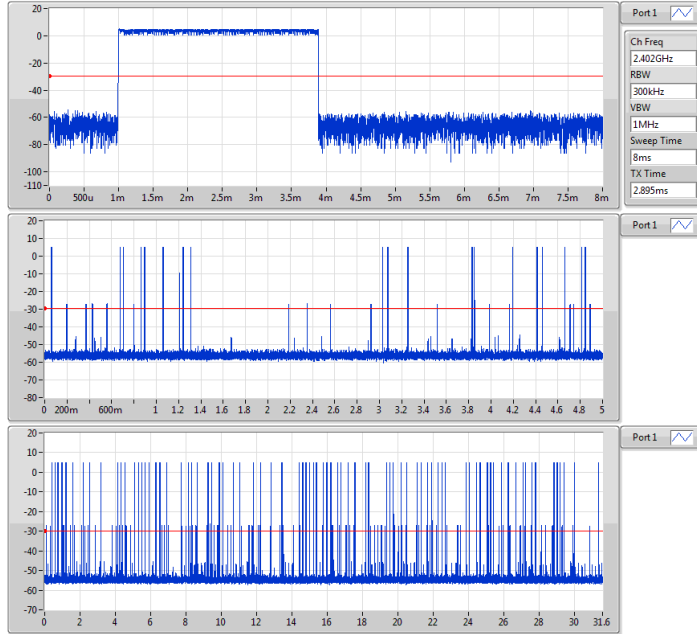
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (ms)	Number of transmission in a 2 s
BT-BR-AFH(1Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	8	0.31309	0.4	2.89900	27
BT-EDR-AFH(2Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	8	0.28988	0.4	2.89875	25
BT-EDR-AFH(3Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	8	0.29005	0.4	2.90050	25

Note 1: Dwell time =Number of transmission in a 2 second x Tx On Time x 4

Note 2: DH5 was the worst mode.

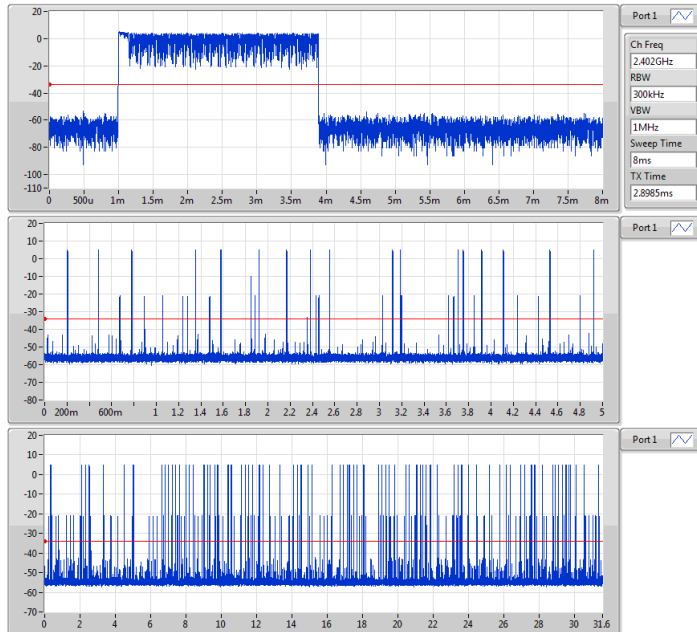
BT-BR(1Mbps)
2402MHz

Dwell-FS



BT-EDR(2Mbps)
2402MHz

Dwell-FS



BT-EDR(3Mbps)

Dwell-FS

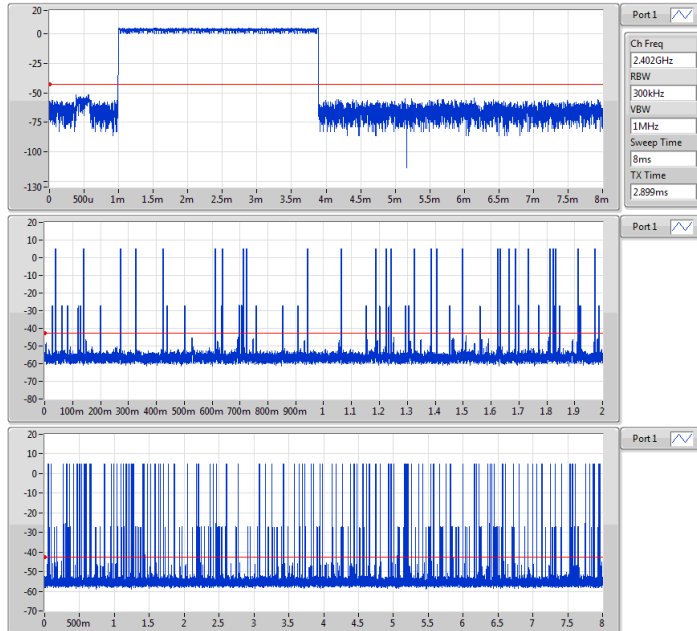
2402MHz



BT-BR-AFH(1Mbps)

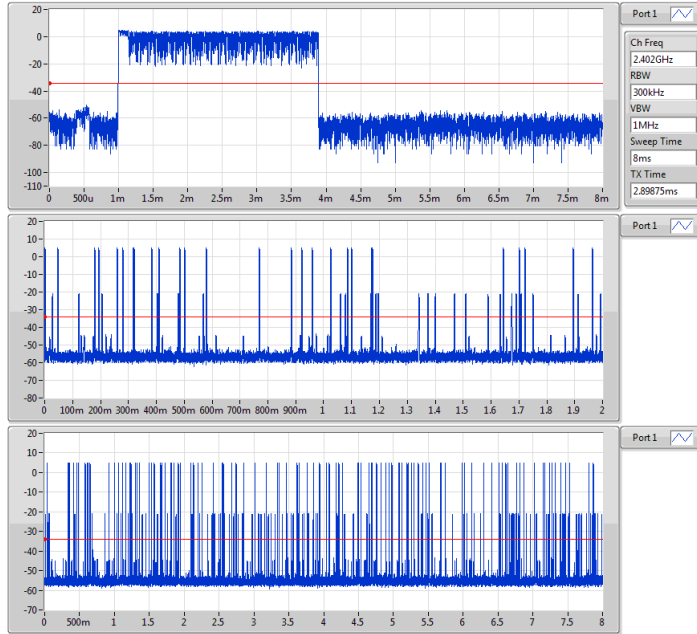
Dwell-FS

2402MHz



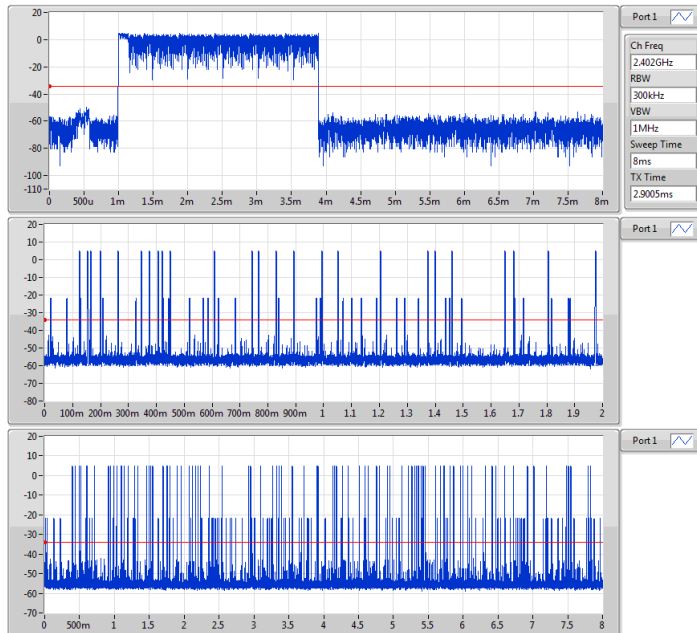
BT-EDR-AFH(2Mbps)
2402MHz

Dwell-FS



BT-EDR-AFH(3Mbps)
2402MHz

Dwell-FS



4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

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District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

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St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==