

FCC Test Report

FCC ID : MXF-W1700K
Equipment : Wi-Fi 7 Router
Model No. : W1700K
Brand Name : Q Fiber
Applicant : Gemtek Technology Co., Ltd.
Address : No. 15-1 Zhonghua Road, Hsinchu Industrial
Park, Hukou, Hsinchu, Taiwan, 30352.
Standard : 47 CFR FCC Part 15.247
Received Date : Jun. 27, 2023
Tested Date : Jul. 21~ Aug. 10, 2023

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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Appendix A. 6dB and Occupied Bandwidth

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Appendix D. Unwanted Emissions into Restricted Frequency Bands

Appendix E. Emissions in Non-Restricted Frequency Bands

Appendix F. AC Power Line Conducted Emissions

Release Record

Report No.	Version	Description	Issued Date
FR362704AE	Rev. 01	Initial issue	Sep. 19, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.258MHz 42.33 (Margin -9.18dB) - AV	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 7320.00MHz 50.94 (Margin -3.06dB) - AV	Pass
15.247(b)(3)	Conducted Output Power	Power [dBm]: 9.71	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

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. Freq. (MHz)	Channel Number	Data Rate
2400-2483.5	LE	2402-2480	0-39 [40]	125 kbps
				500 kbps
				1 Mbps
				2 Mbps
Note: Bluetooth LE (Low energy) uses GFSK modulation.				

1.1.2 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)
1	PIFA	NA	2.94

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter
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1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: LUCENT TRANS ELECTRONICS CO., LTD. Model: 1A98-LJHL I/P: 100-120V~1.6A, 50-60Hz O/P: 12V=5.0A, 60.0W Power Line: 1.8m non-shielded without core
2	AC adapter	Brand: LEI Model: ML60-4120500-A1 I/P: 120V~60Hz, 1.5A O/P: 12V=5.0A Power Line: 1.8m non-shielded without core
3	RJ45	Brand: Tung Li Line: 1.8m non-shielded without core
4	RJ45	Brand: RAPID CONN Line: 1.8m non-shielded without core
5	Fan	Brand: SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO LTD Model: MF70151V1-1C010-S99
6	Fan	Brand: Yingfan Model: DB701512HMS4B01F25

1.1.5 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

1.1.6 Test Tool and Duty Cycle

Test Tool	BGTool, Version: 2.13.7-347	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
BT-LE(125kbps)	98.42%	0.07
BT-LE(500kbps)	92.44%	0.34
BT-LE(1Mbps)	88.16%	0.55
BT-LE(2Mbps)	63.63%	1.96

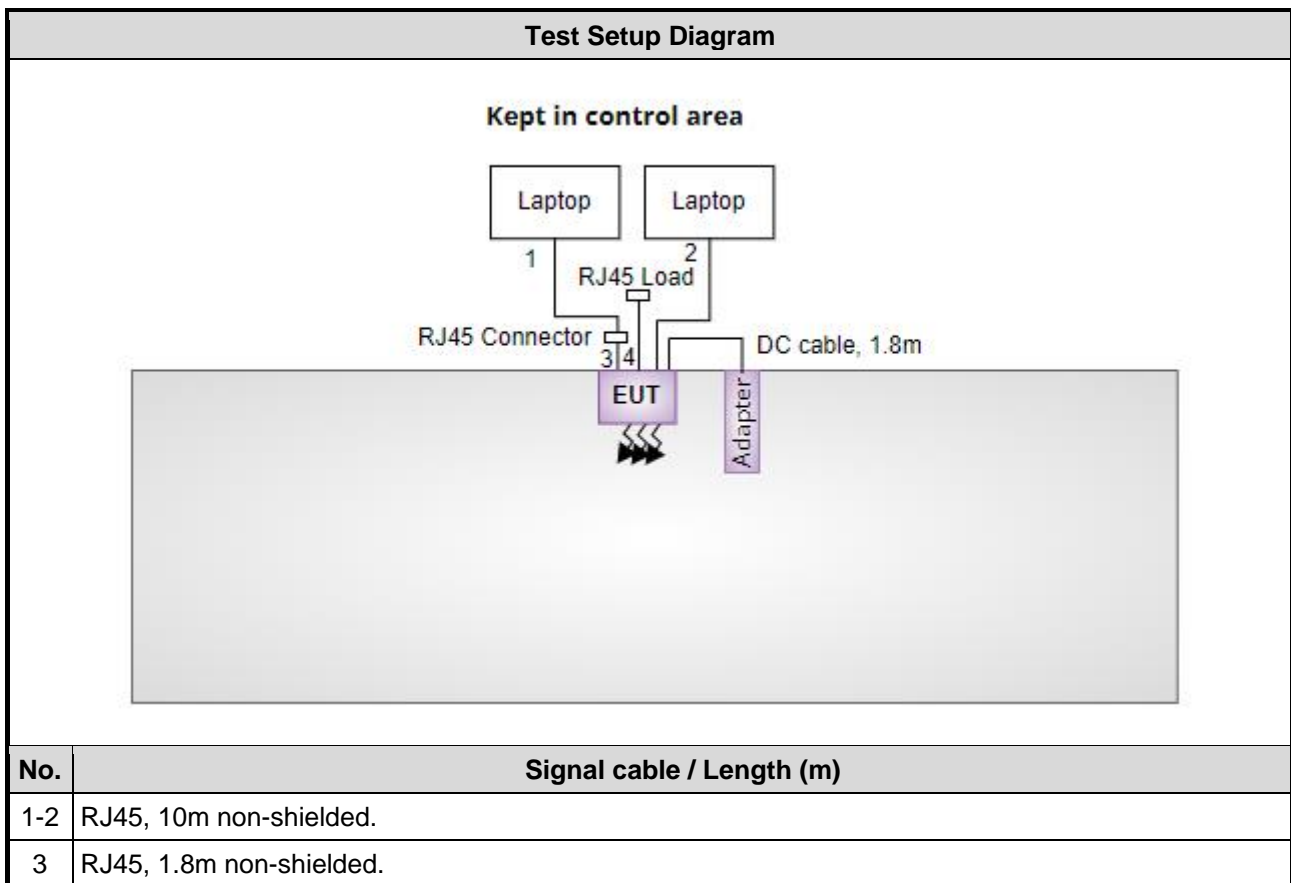
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)		
	2402	2440	2480
BT-LE(125kbps)	100	100	100
BT-LE(500kbps)	100	100	100
BT-LE(1Mbps)	100	100	100
BT-LE(2Mbps)	100	100	100

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	RJ45 Load	ICC	--	--	---
2	RJ45 Connector	ICC	RJ45 Connector	--	---
3	Laptop	DELL	Latitude 5400	DoC	---
4	Laptop	DELL	Latitude E5470	DoC	---

1.3 Test Setup Chart



1.4 Test Equipment List and Calibration Data

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Aug. 10, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024
LISN	R&S	ENV216	101579	May 09, 2023	May 08, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan .03, 2023	Jan .02, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 17, 2022	Oct. 16, 2023
50 ohm terminal (Support Unit)	NA	50	01	Jun. 14, 2023	Jun. 13, 2024
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Aug. 02, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 31, 2023	Jul. 30, 2024
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2023	Jun. 27, 2024
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 04, 2022	Oct. 03, 2023
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 04, 2022	Oct. 03, 2023
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 04, 2022	Oct. 03, 2023
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jul. 21, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 21, 2022	Nov. 20, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 25, 2022	Nov. 24, 2023
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023
Preamplifier	EMC	EMC118A45SE	980898	Jul. 14, 2023	Jul. 13, 2024
Preamplifier	EMC	EMC184045SE	980903	Jul. 17, 2023	Jul. 16, 2024
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M-3000	210922	Oct. 04, 2022	Oct. 03, 2023
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 06, 2022	Oct. 05, 2023
Attenuator	Pasternack	PE7005-10	10-1	Oct. 06, 2022	Oct. 05, 2023
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	Aug. 01, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 14, 2023	Apr. 13, 2024
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023
Attenuator	Pasternack	PE7005-10	10-2	Oct. 06, 2022	Oct. 05, 2023
Measurement Software	Sporton	SENSE-15247_FS	V5.10.8	NA	NA
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
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, 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.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Test Configuration
AC Power Line Conducted Emissions	BT-LE(1Mbps)	2480	---
Unwanted Emissions ≤ 1GHz	BT-LE(1Mbps)	2480	---
Unwanted Emissions > 1GHz	BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480	---
Conducted Output Power 6dB bandwidth Power spectral density	BT-LE(125kbps) BT-LE(500kbps) BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480	---

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.
2. Two adapters (LUCENT TRANS ELECTRONICS CO., LTD and LEI) had been covered during the pretest, and found that **LEI adapter** was the worst case of AC Power line conducted emission test item and **LUCENT TRANS ELECTRONICS CO., LTD adapter** was the worst case of Unwanted Emission test item.
3. Two RJ45 cable (Tung Li and RAPID CONN) had been covered during the pretest, and found that **Tung Li adapter** was the worst case and was selected for final test.
4. Two Fan (SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO LTD and Yingfan) had been covered during the pretest, and found that **Yingfan** was the worst case and was selected for final test.

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.1.2 Test Procedures

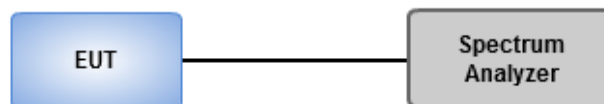
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. 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 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	23°C / 66%	Tested By	Akun Chung
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

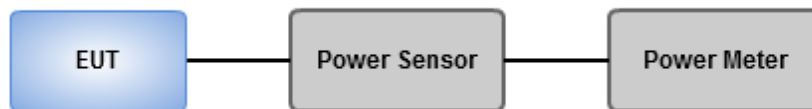
Conducted power shall not exceed 1Watt.

Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.

3.2.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. 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.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	23°C / 66%	Tested By	Akun Chung
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Refer to Appendix B.

3.3 Power Spectral Density

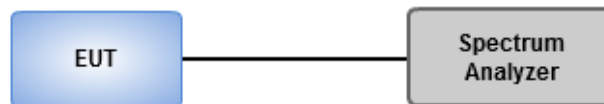
3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.3.2 Test Procedures

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	23°C / 66%	Tested By	Akun Chung
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Refer to Appendix C.

3.4 Unwanted Emissions in Restricted Frequency Bands

3.4.1 Limit of Unwanted Emissions in 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.

3.4.2 Test Procedures

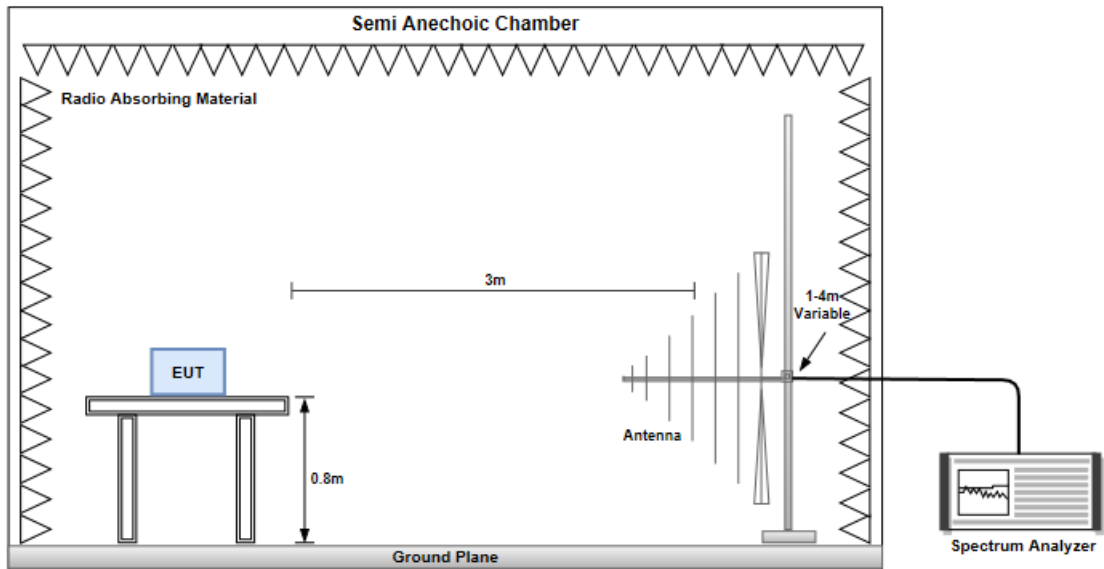
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

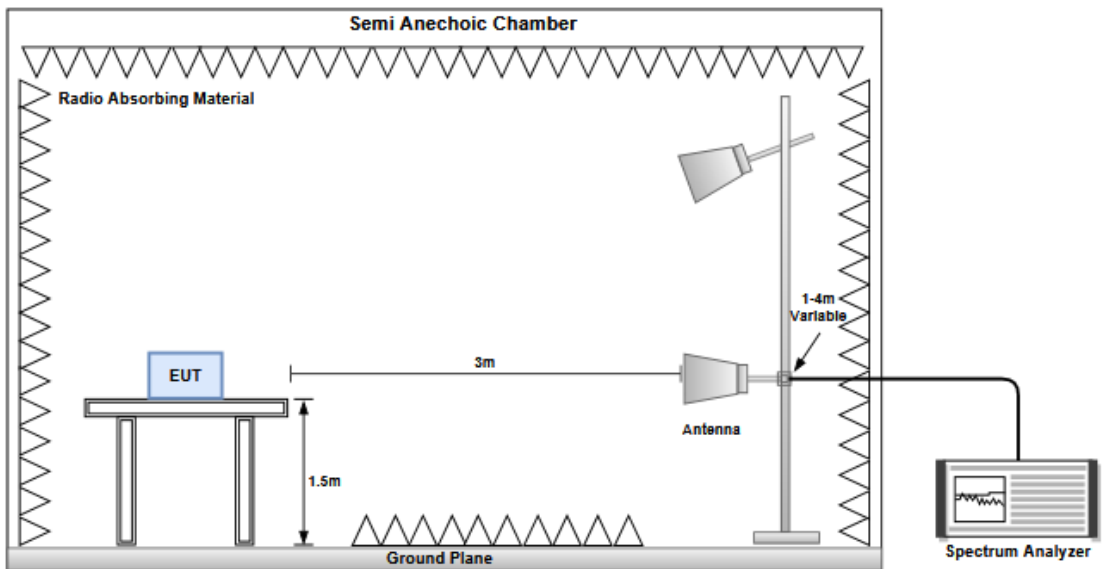
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Emissions in non-restricted Frequency Bands

3.5.1 Emissions in non-restricted frequency bands limit

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.

3.5.2 Test Procedures

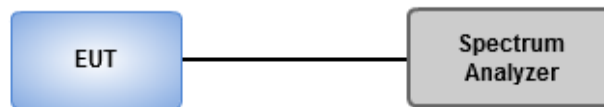
Reference level measurement

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

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	23°C / 66%	Tested By	Akun Chung
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

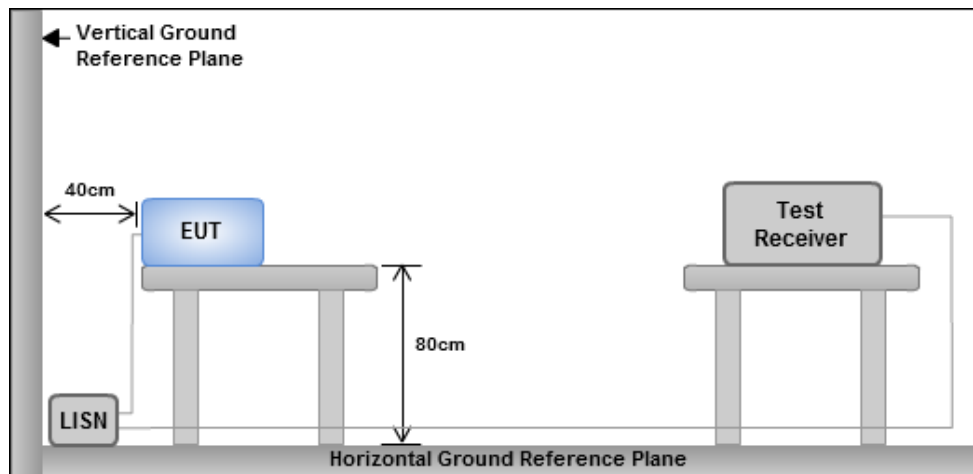
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.6.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.

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

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
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Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
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 33381, Taiwan (R.O.C.)

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(125kbps)	688.75k	1.132M	1M13F1D	685k	1.127M
BT-LE(500kbps)	741.25k	1.081M	1M08F1D	725k	1.079M
BT-LE(1Mbps)	638.75k	1.033M	1M03F1D	637.5k	1.032M
BT-LE(2Mbps)	1.13M	2.096M	2M10F1D	1.11M	2.084M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	686.25k	1.132M
2440MHz	Pass	500k	685k	1.129M
2480MHz	Pass	500k	688.75k	1.127M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	726.25k	1.081M
2440MHz	Pass	500k	741.25k	1.079M
2480MHz	Pass	500k	725k	1.079M
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	638.75k	1.032M
2440MHz	Pass	500k	638.75k	1.033M
2480MHz	Pass	500k	637.5k	1.033M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.13M	2.084M
2440MHz	Pass	500k	1.11M	2.091M
2480MHz	Pass	500k	1.115M	2.096M

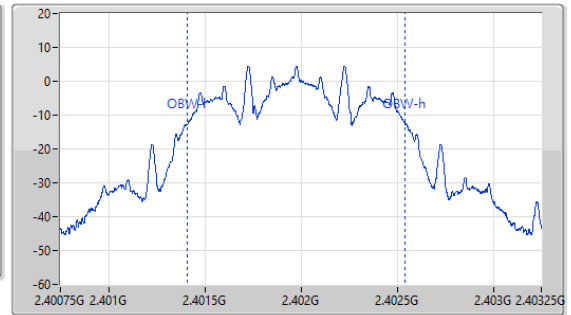
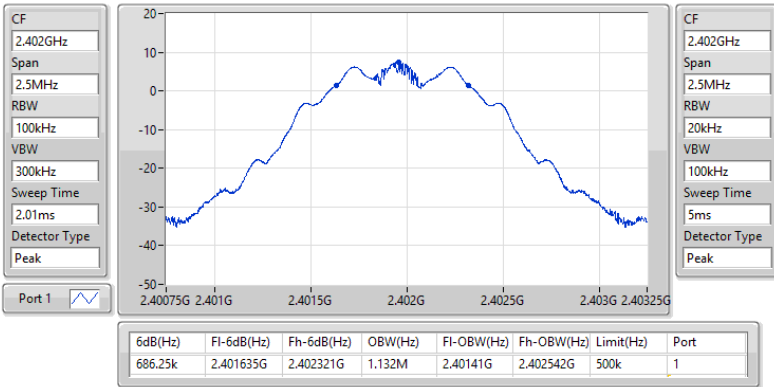
Port X-N dB = Port X 6dB down bandwidth;
 Port X-OBW = Port X 99% occupied bandwidth



2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

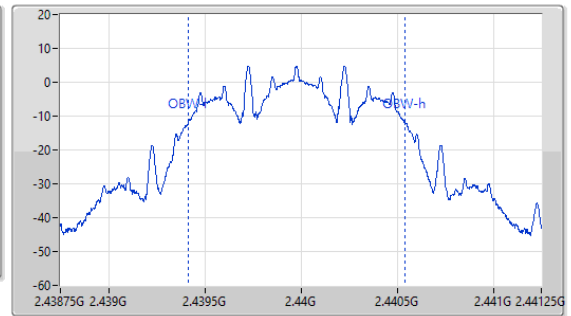
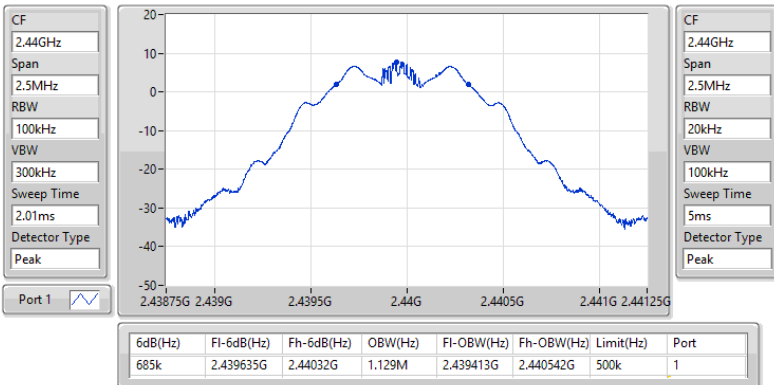
2402MHz



2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

2440MHz

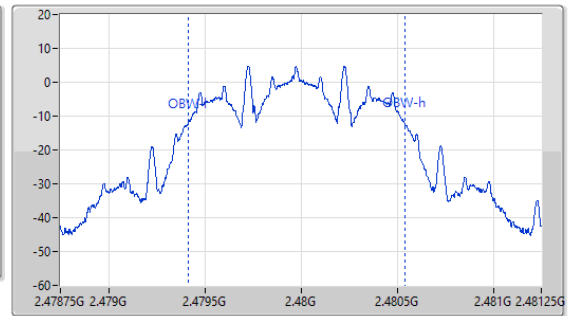
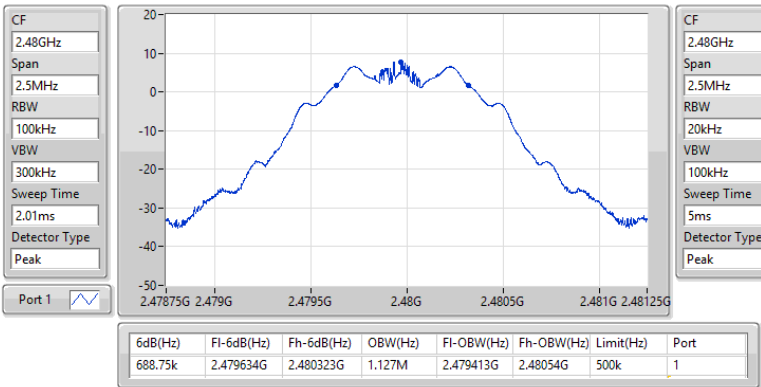




2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

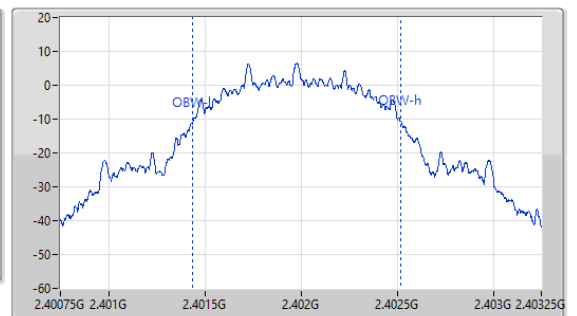
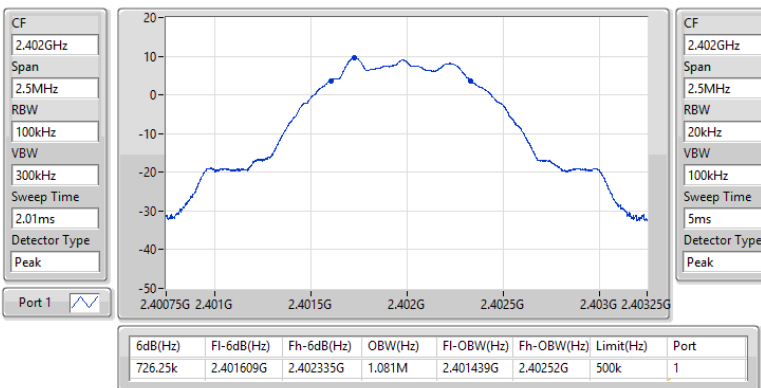
2480MHz



2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

2402MHz

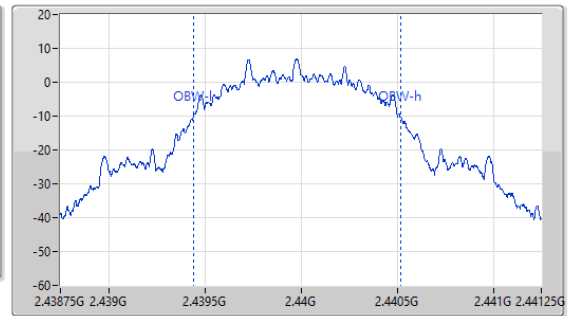
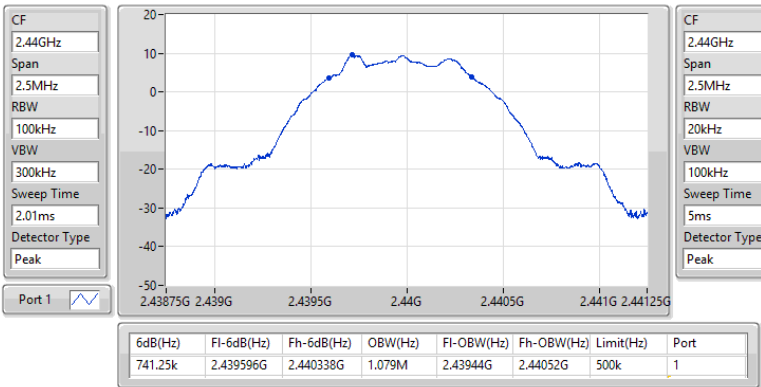




2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

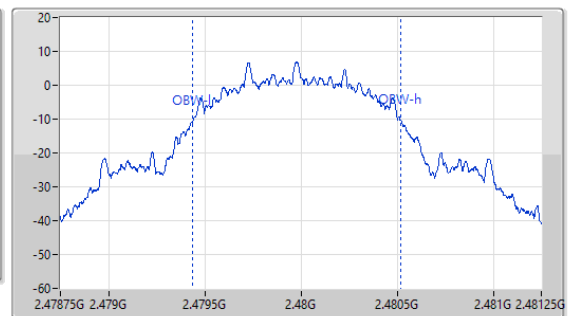
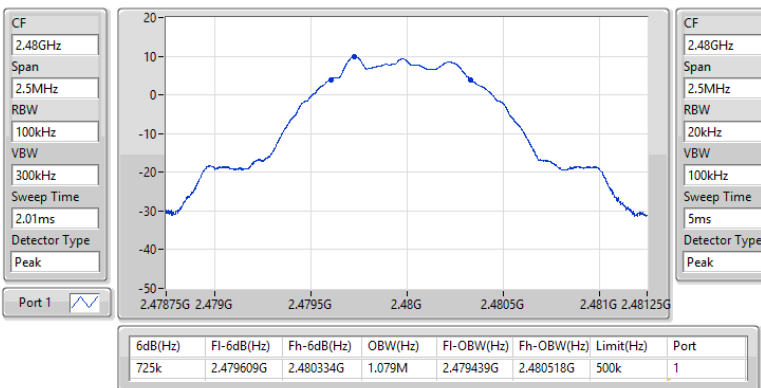
2440MHz



2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

2480MHz

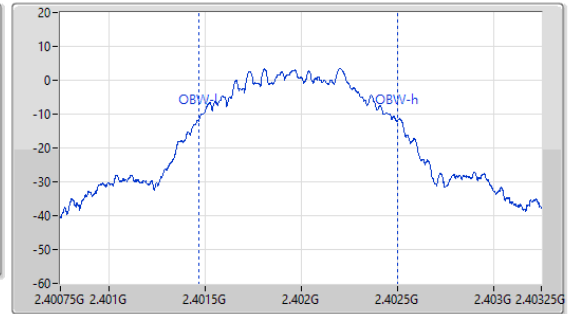
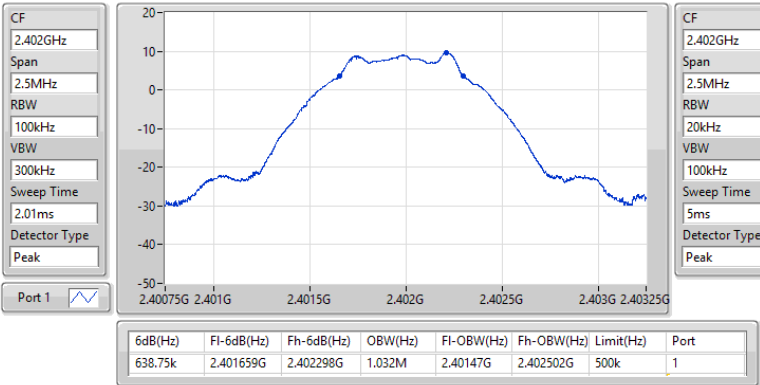




2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

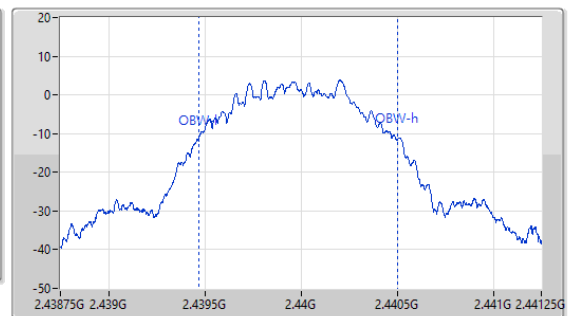
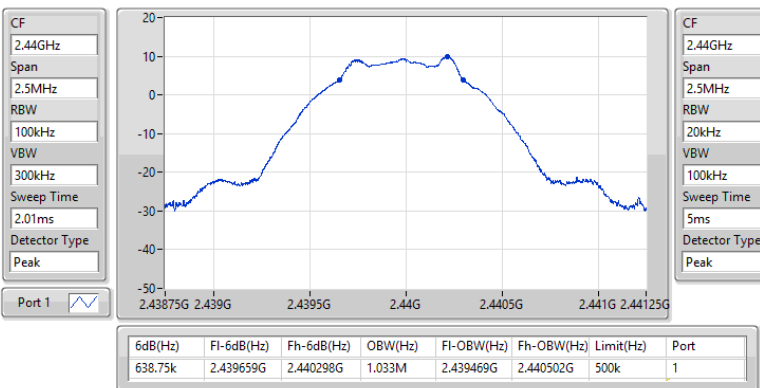
2402MHz



2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2440MHz

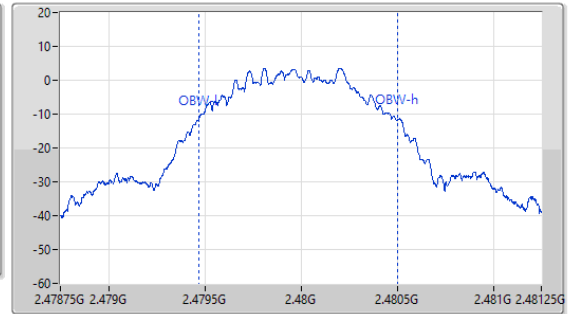
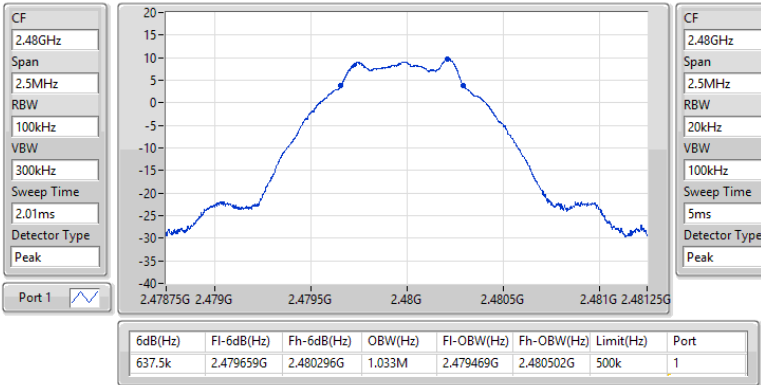




2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

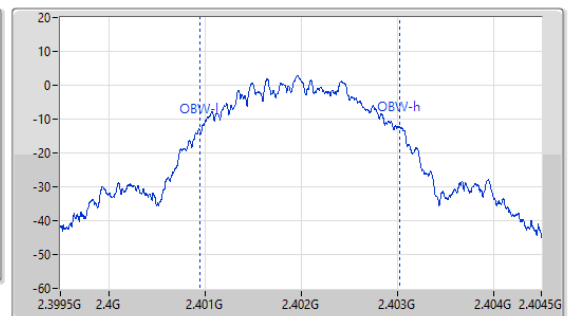
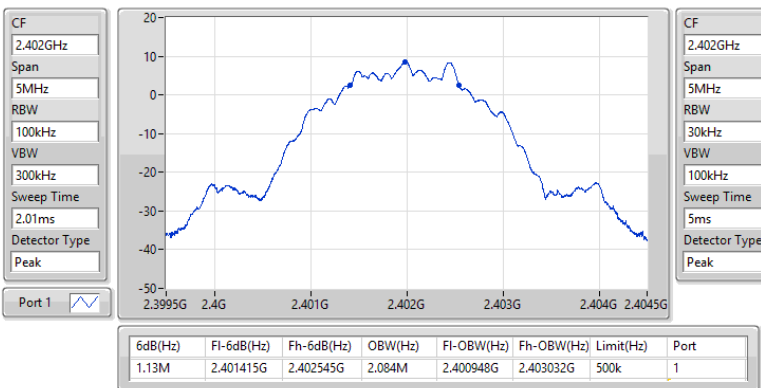
2480MHz



2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2402MHz

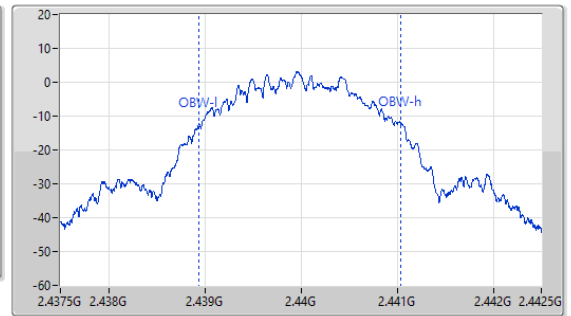
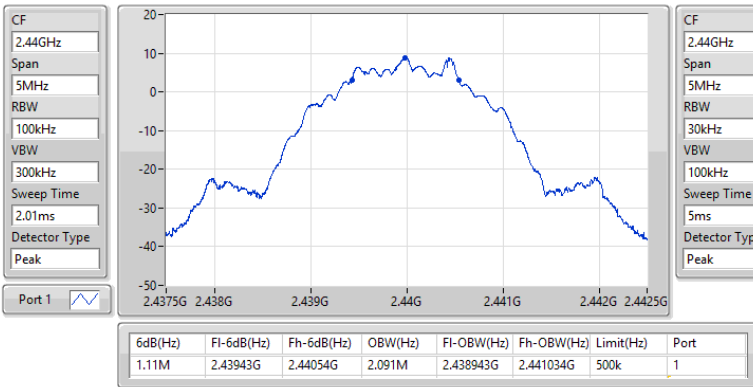




2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

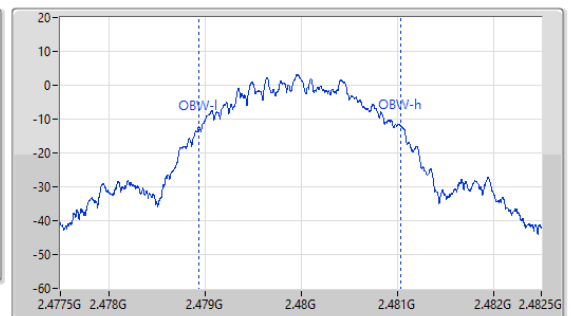
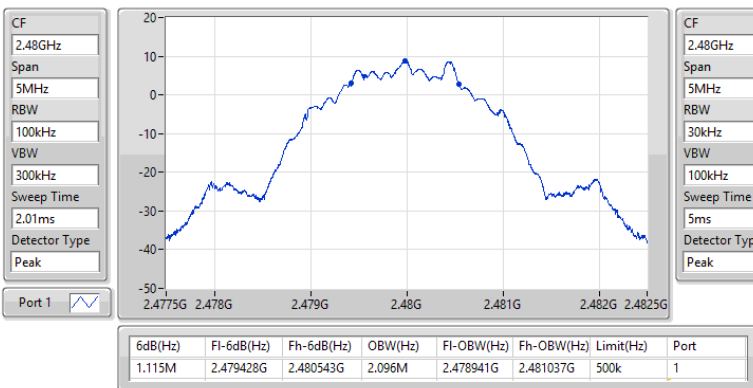
2440MHz



2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2480MHz





Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(125kbps)	9.70	0.00933
BT-LE(500kbps)	9.70	0.00933
BT-LE(1Mbps)	9.71	0.00935
BT-LE(2Mbps)	9.71	0.00935

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
BT-LE(125kbps)	-	-	-	-	-	-
2402MHz	Pass	2.94	9.53	30.00	12.47	36.00
2440MHz	Pass	2.94	9.63	30.00	12.57	36.00
2480MHz	Pass	2.94	9.70	30.00	12.64	36.00
BT-LE(500kbps)	-	-	-	-	-	-
2402MHz	Pass	2.94	9.52	30.00	12.46	36.00
2440MHz	Pass	2.94	9.62	30.00	12.56	36.00
2480MHz	Pass	2.94	9.70	30.00	12.64	36.00
BT-LE(1Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.94	9.54	30.00	12.48	36.00
2440MHz	Pass	2.94	9.64	30.00	12.58	36.00
2480MHz	Pass	2.94	9.71	30.00	12.65	36.00
BT-LE(2Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.94	9.53	30.00	12.47	36.00
2440MHz	Pass	2.94	9.63	30.00	12.57	36.00
2480MHz	Pass	2.94	9.71	30.00	12.65	36.00



Conducted Output Power (Average)

Appendix B

Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(125kbps)	9.61	0.00914
BT-LE(500kbps)	9.60	0.00912
BT-LE(1Mbps)	9.62	0.00916
BT-LE(2Mbps)	9.62	0.00916

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
BT-LE(125kbps)	-	-	-	-	-	-
2402MHz	Pass	2.94	9.44	-	12.38	-
2440MHz	Pass	2.94	9.54	-	12.48	-
2480MHz	Pass	2.94	9.61	-	12.55	-
BT-LE(500kbps)	-	-	-	-	-	-
2402MHz	Pass	2.94	9.44	-	12.38	-
2440MHz	Pass	2.94	9.53	-	12.47	-
2480MHz	Pass	2.94	9.60	-	12.54	-
BT-LE(1Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.94	9.45	-	12.39	-
2440MHz	Pass	2.94	9.55	-	12.49	-
2480MHz	Pass	2.94	9.62	-	12.56	-
BT-LE(2Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.94	9.45	-	12.39	-
2440MHz	Pass	2.94	9.54	-	12.48	-
2480MHz	Pass	2.94	9.62	-	12.56	-

Note: Average power is for reference only.

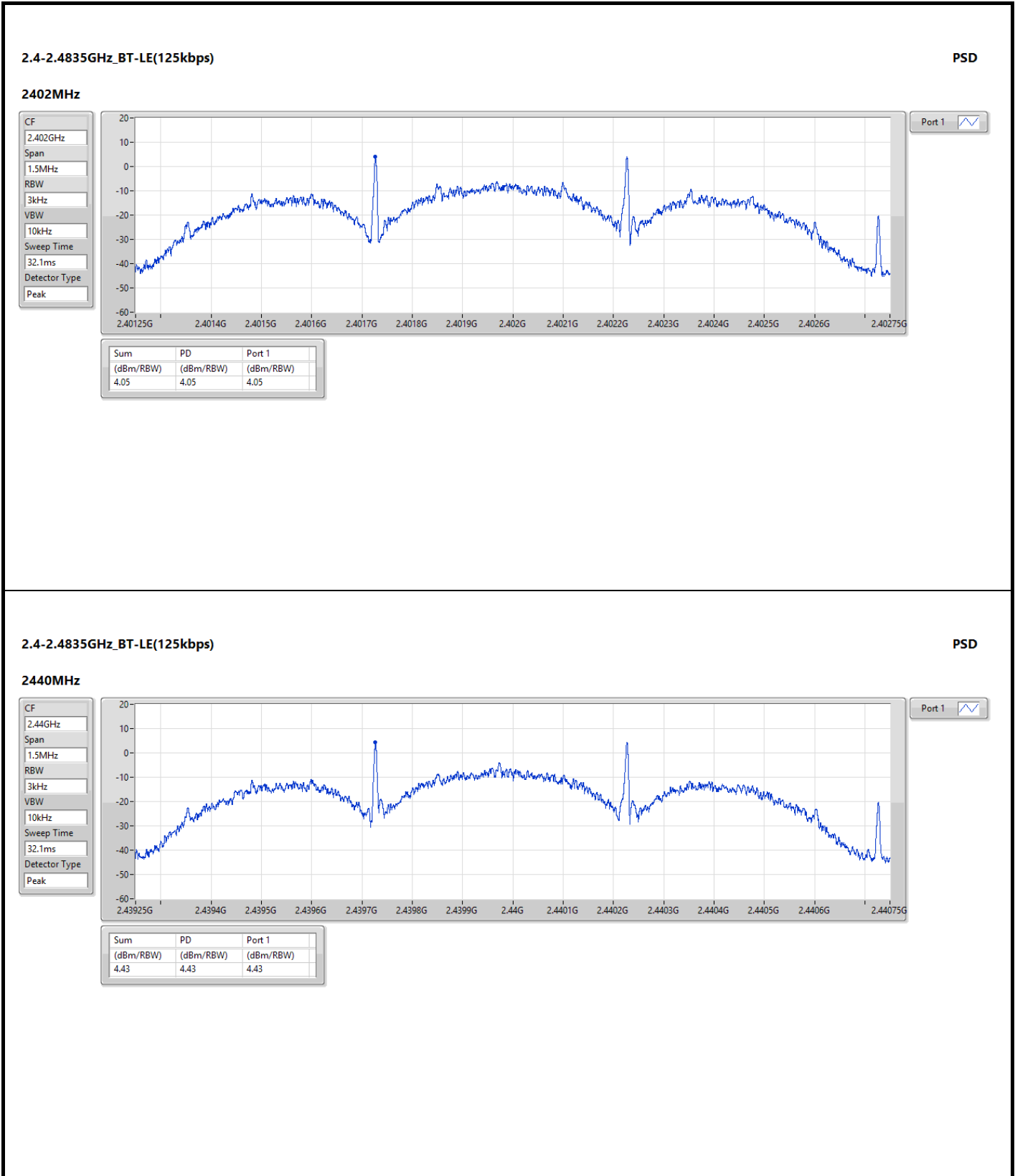


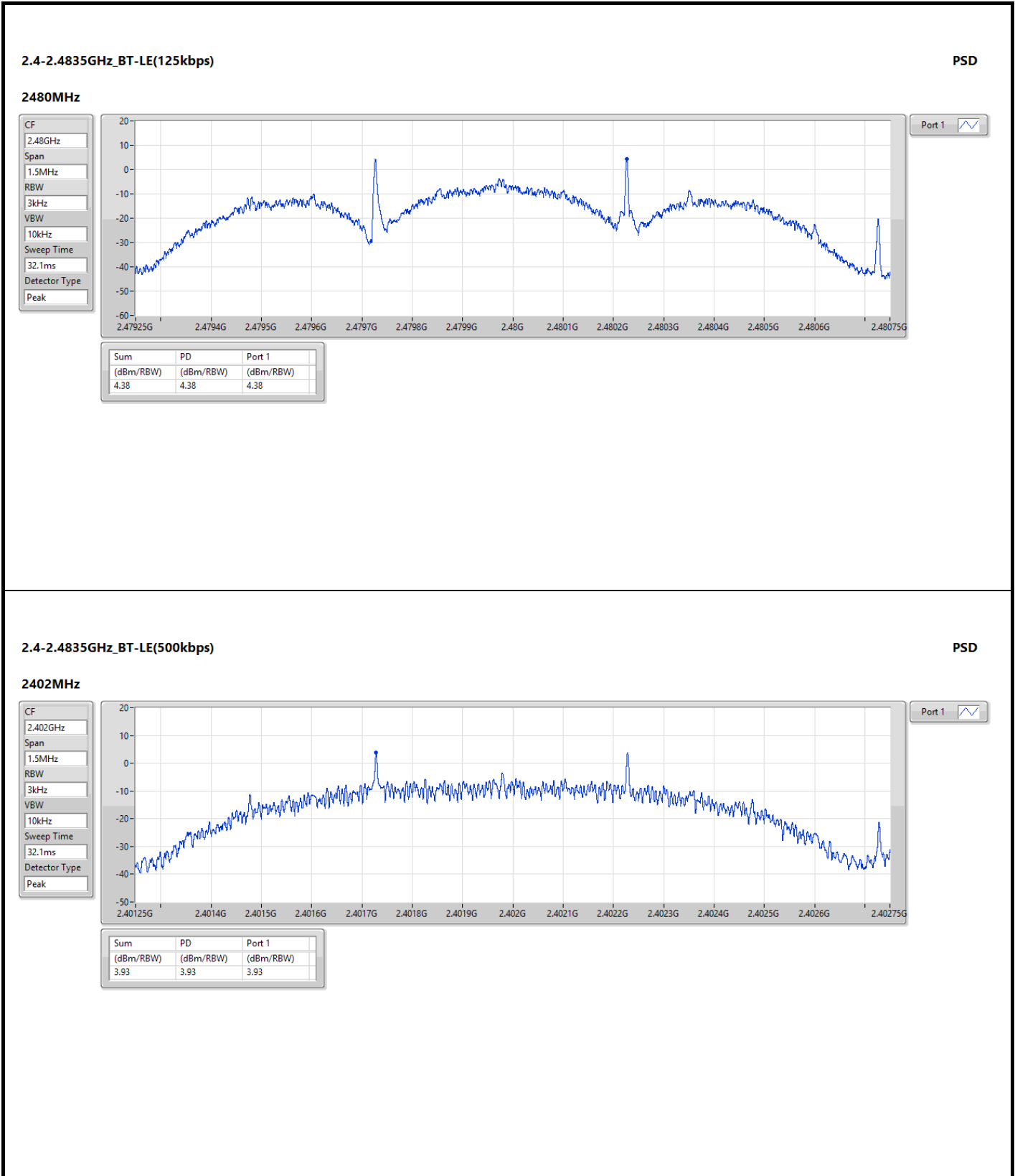
Summary

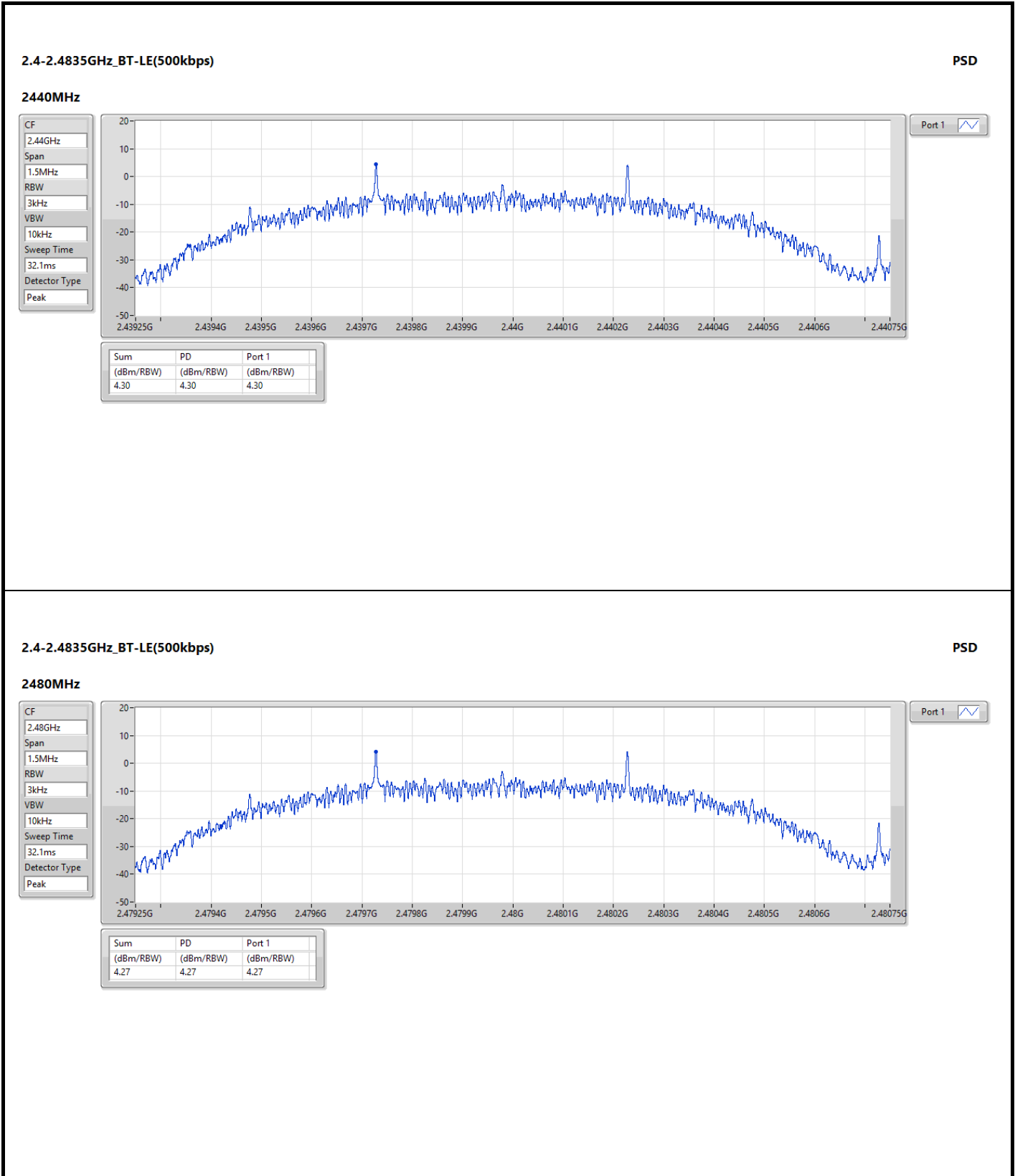
Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
BT-LE(125kbps)	4.43
BT-LE(500kbps)	4.30
BT-LE(1Mbps)	-5.91
BT-LE(2Mbps)	-7.55

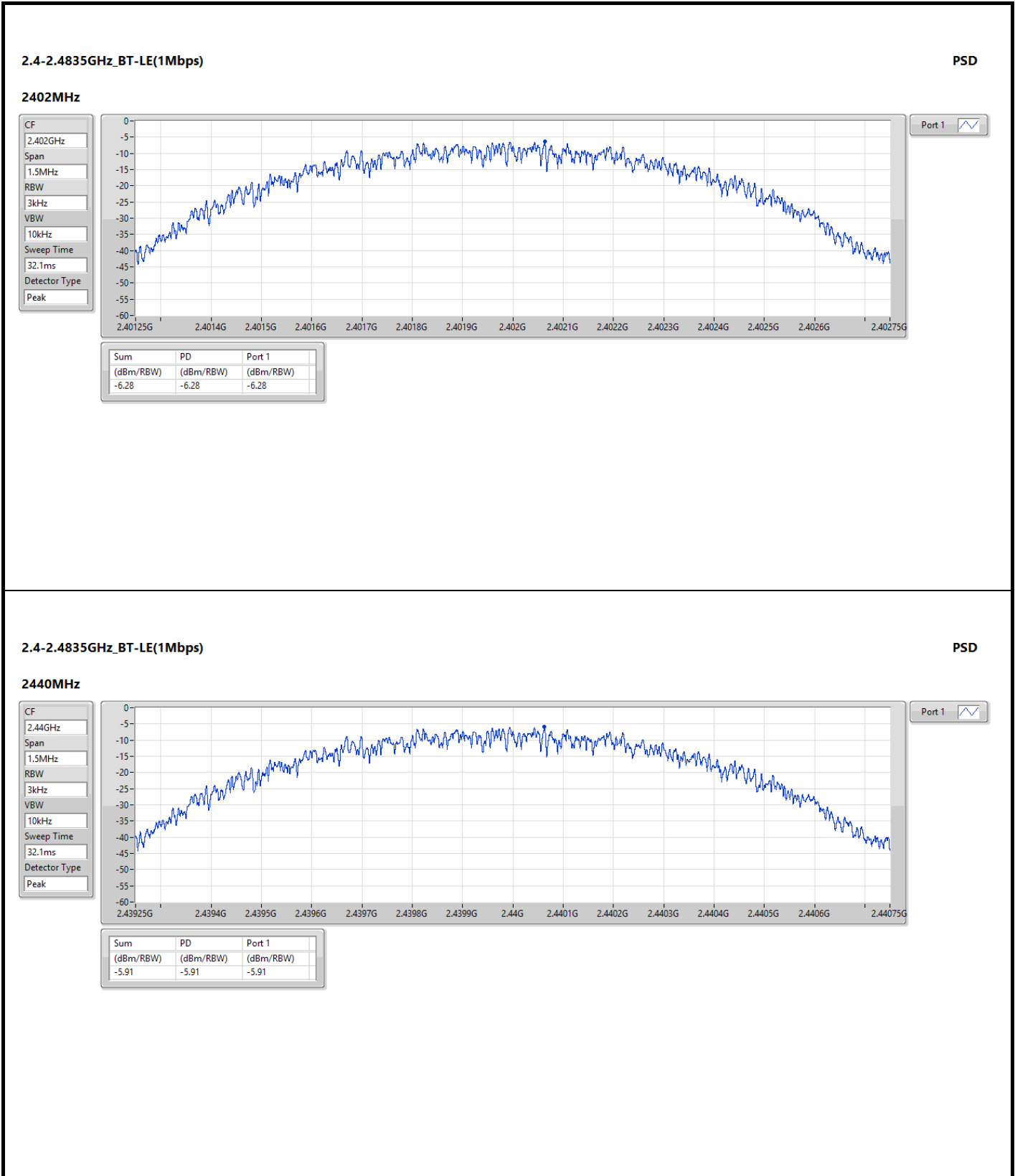
Result

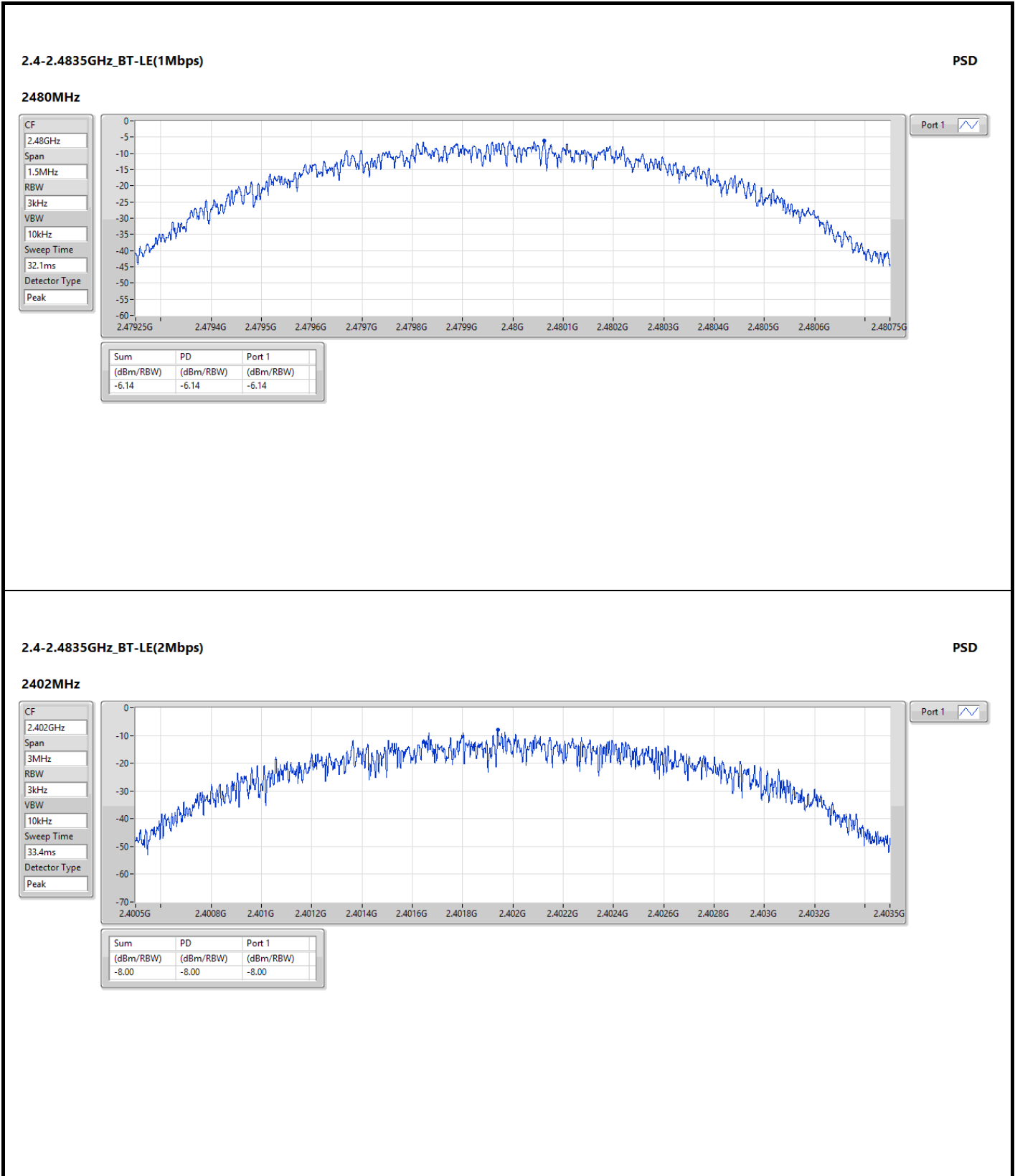
Mode	Result	Antenna Gain (dBi)	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	2.94	4.05	8.00
2440MHz	Pass	2.94	4.43	8.00
2480MHz	Pass	2.94	4.38	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	2.94	3.93	8.00
2440MHz	Pass	2.94	4.30	8.00
2480MHz	Pass	2.94	4.27	8.00
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.94	-6.28	8.00
2440MHz	Pass	2.94	-5.91	8.00
2480MHz	Pass	2.94	-6.14	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.94	-8.00	8.00
2440MHz	Pass	2.94	-7.57	8.00
2480MHz	Pass	2.94	-7.55	8.00

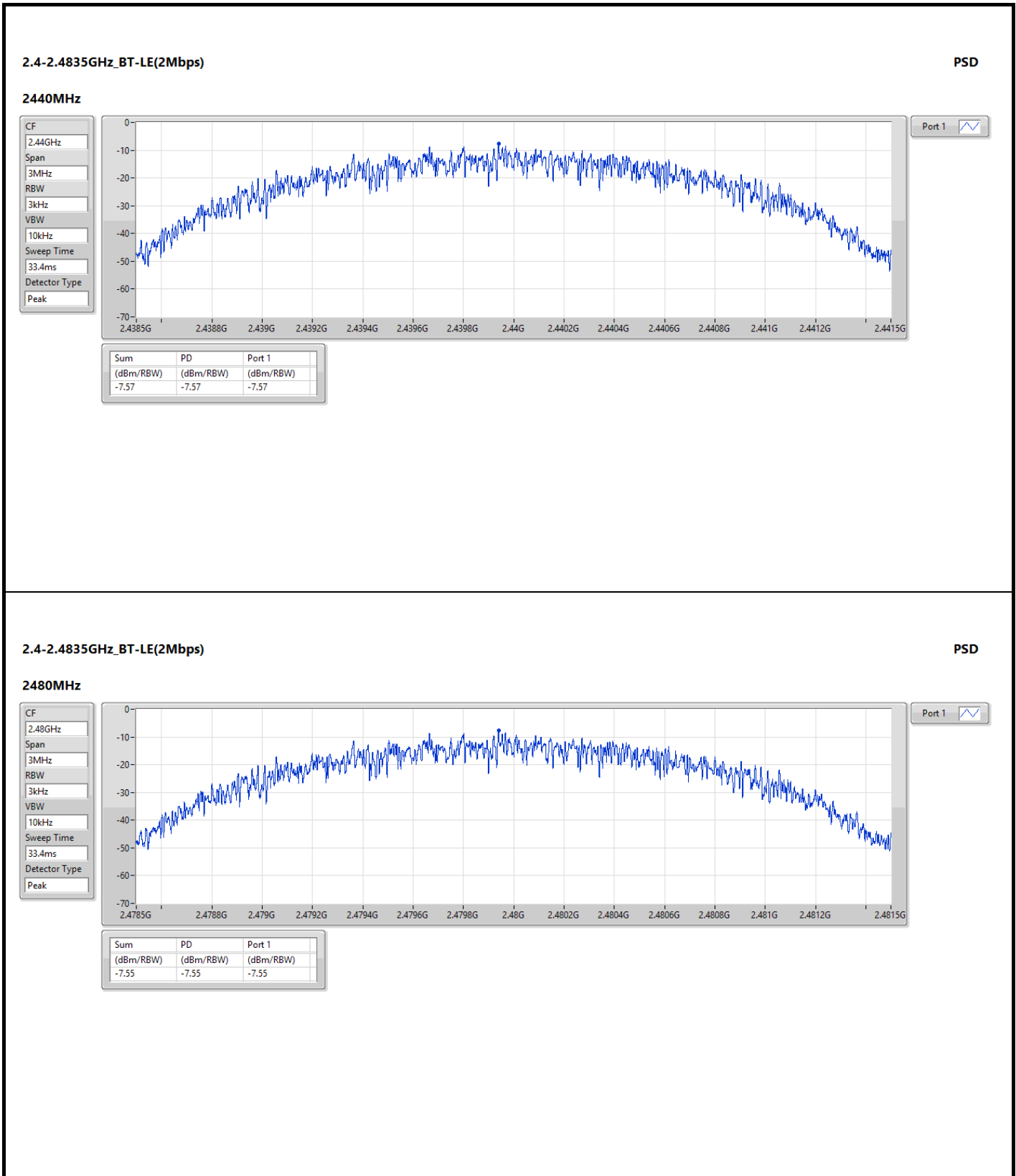










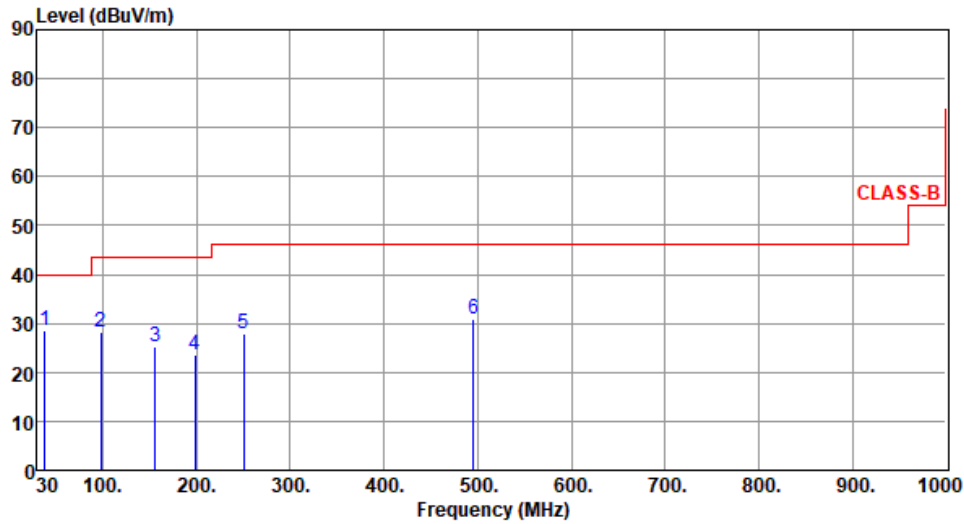




Unwanted Emissions (Below 1GHz)

Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2480
Polarization	Horizontal		

Test By :Paul Lin Temperature(°C):24 Humidity(%):62



	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	37.88	28.44	40.00	-11.56	37.27	-8.83	Peak	---	---
2	97.51	28.29	43.50	-15.21	41.99	-13.70	Peak	---	---
3	156.32	25.18	43.50	-18.32	34.12	-8.94	Peak	---	---
4	198.13	23.71	43.50	-19.79	35.43	-11.72	Peak	---	---
5	250.19	27.85	46.00	-18.15	37.85	-10.00	Peak	---	---
6	495.25	30.74	46.00	-15.26	34.06	-3.32	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).

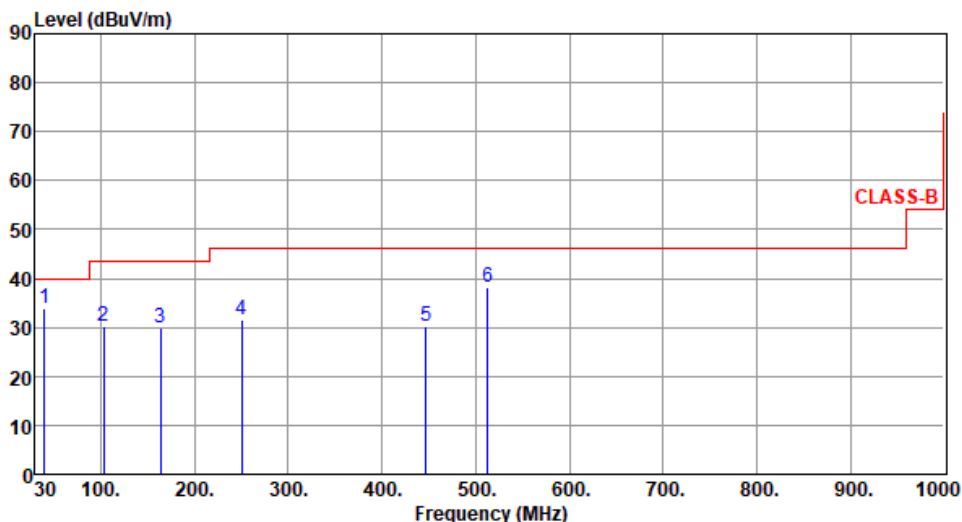
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2480
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Polarization	Vertical
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Test By : Paul Lin Temperature(°C): 24 Humidity(%): 62



	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	40.02	33.75	40.00	-6.25	42.17	-8.42	QP	100	175
2	103.45	30.18	43.50	-13.32	43.01	-12.83	Peak	---	---
3	164.12	29.95	43.50	-13.55	39.05	-9.10	Peak	---	---
4	250.33	31.57	46.00	-14.43	41.57	-10.00	Peak	---	---
5	446.61	30.28	46.00	-15.72	34.56	-4.28	Peak	---	---
6	512.83	38.11	46.00	-7.89	41.03	-2.92	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).

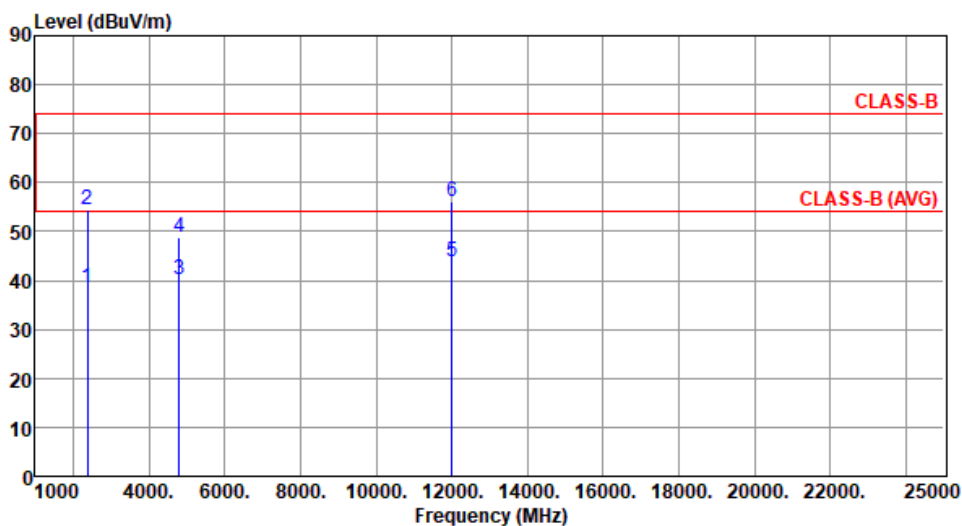
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Unwanted Emissions (Above 1GHz)

Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402
Polarization	Horizontal		

Test By :Paul Lin Temperature(°C):26 Humidity(%):61



	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	38.36	54.00	-15.64	42.90	-4.54	Average	100	247
2	2390.00	54.50	74.00	-19.50	59.04	-4.54	Peak	100	247
3	4804.00	40.33	54.00	-13.67	40.74	-0.41	Average	156	37
4	4804.00	48.88	74.00	-25.12	49.29	-0.41	Peak	156	37
5	12010.00	43.97	54.00	-10.03	37.76	6.21	Average	100	102
6	12010.00	56.28	74.00	-17.72	50.07	6.21	Peak	100	102

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

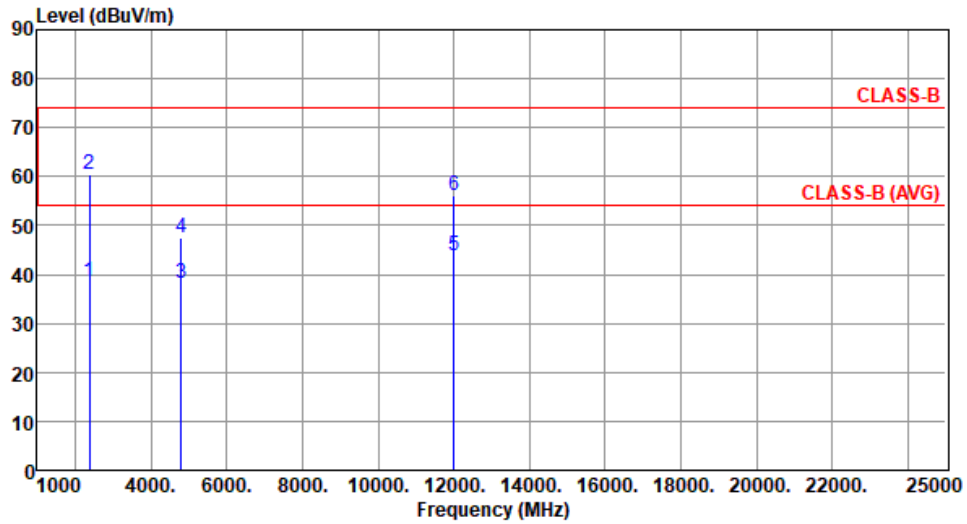
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402
Polarization	Vertical		

Test By : Paul Lin Temperature(°C): 26 Humidity(%): 61



	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	43.21	-4.54	Average	136	181
2	2390.00	60.58	74.00	-13.42	65.12	-4.54	Peak	136	181
3	4804.00	38.23	54.00	-15.77	38.64	-0.41	Average	100	55
4	4804.00	47.59	74.00	-26.41	48.00	-0.41	Peak	100	55
5	12010.00	43.89	54.00	-10.11	37.68	6.21	Average	100	24
6	12010.00	56.20	74.00	-17.80	49.99	6.21	Peak	100	24

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

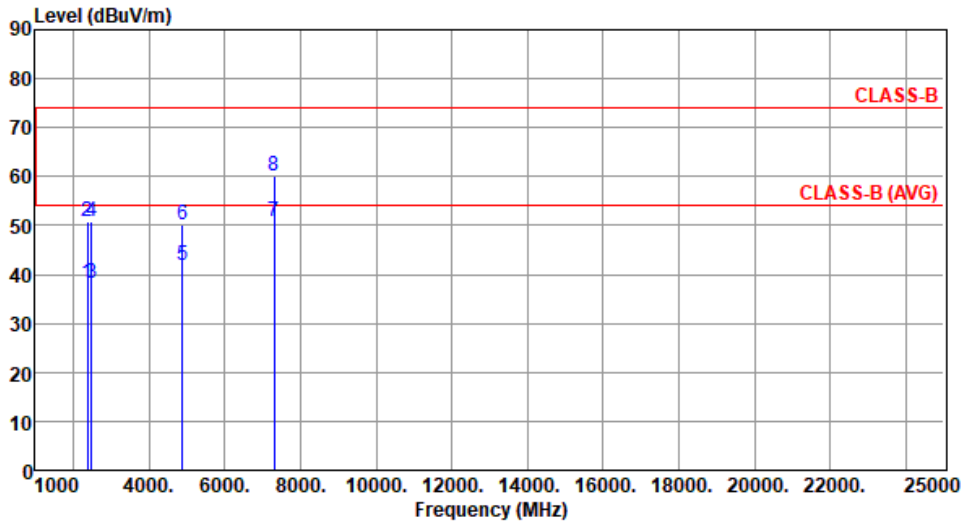
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2440
Polarization	Horizontal		

Test By : Paul Lin Temperature(°C): 26 Humidity(%): 61



	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	38.15	54.00	-15.85	42.69	-4.54	Average	100	221
2	2390.00	50.69	74.00	-23.31	55.23	-4.54	Peak	100	221
3	2483.50	38.17	54.00	-15.83	42.95	-4.78	Average	100	221
4	2483.50	50.84	74.00	-23.16	55.62	-4.78	Peak	100	221
5	4880.00	41.70	54.00	-12.30	42.13	-0.43	Average	155	36
6	4880.00	50.09	74.00	-23.91	50.52	-0.43	Peak	155	36
7	7320.00	50.94	54.00	-3.06	45.71	5.23	Average	102	120
8	7320.00	60.15	74.00	-13.85	54.92	5.23	Peak	102	120

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

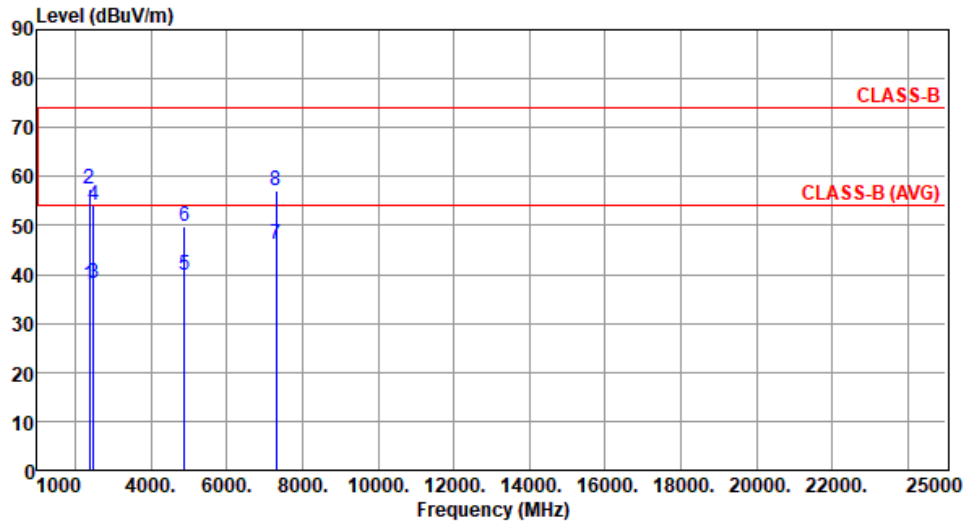
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2440
Polarization	Vertical		

Test By : Paul Lin Temperature(°C): 26 Humidity(%): 61



	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	38.01	54.00	-15.99	42.55	-4.54	Average	136	181
2	2390.00	57.52	74.00	-16.48	62.06	-4.54	Peak	136	181
3	2483.50	38.06	54.00	-15.94	42.84	-4.78	Average	136	181
4	2483.50	54.28	74.00	-19.72	59.06	-4.78	Peak	136	181
5	4880.00	39.85	54.00	-14.15	40.28	-0.43	Average	100	40
6	4880.00	49.79	74.00	-24.21	50.22	-0.43	Peak	100	40
7	7320.00	46.30	54.00	-7.70	41.07	5.23	Average	100	223
8	7320.00	57.05	74.00	-16.95	51.82	5.23	Peak	100	223

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

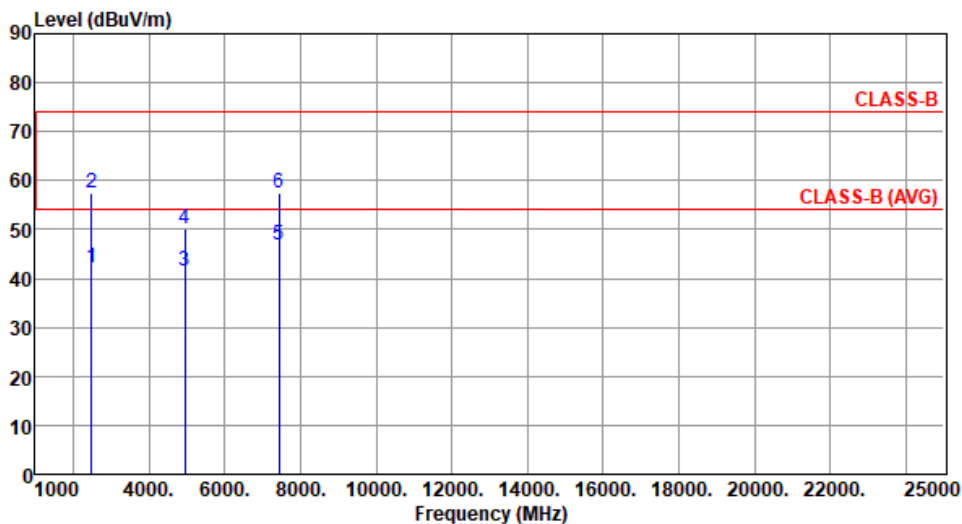
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2480
Polarization	Horizontal		

Test By : Paul Lin Temperature(°C): 26 Humidity(%): 61



	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	42.33	54.00	-11.67	47.11	-4.78	Average	100	230
2	2483.50	57.32	74.00	-16.68	62.10	-4.78	Peak	100	230
3	4960.00	41.42	54.00	-12.58	41.75	-0.33	Average	149	35
4	4960.00	49.99	74.00	-24.01	50.32	-0.33	Peak	149	35
5	7440.00	46.99	54.00	-7.01	41.84	5.15	Average	100	120
6	7440.00	57.54	74.00	-16.46	52.39	5.15	Peak	100	120

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

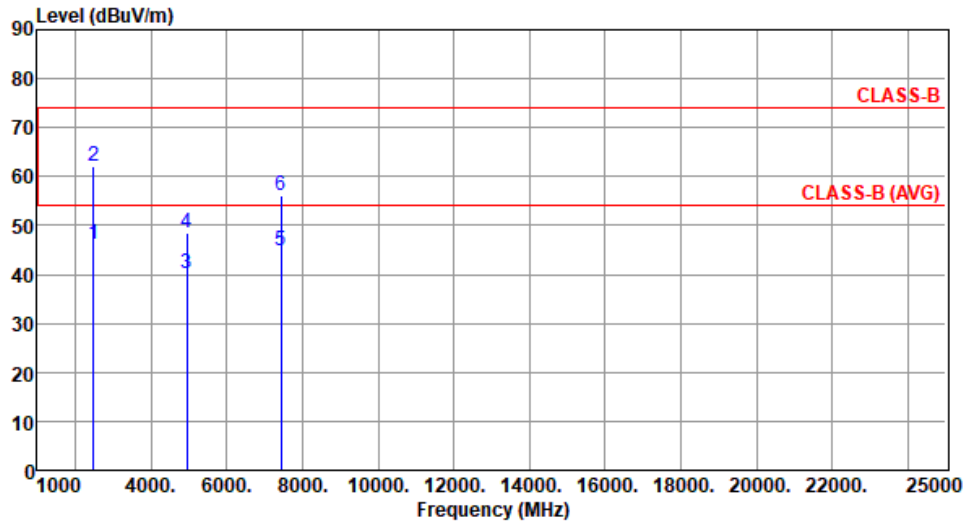
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2480
Polarization	Vertical		

Test By :Paul Lin Temperature(°C):26 Humidity(%):61



	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	46.02	54.00	-7.98	50.80	-4.78	Average	132	179
2	2483.50	62.01	74.00	-11.99	66.79	-4.78	Peak	132	179
3	4960.00	40.27	54.00	-13.73	40.60	-0.33	Average	100	31
4	4960.00	48.62	74.00	-25.38	48.95	-0.33	Peak	100	31
5	7440.00	44.94	54.00	-9.06	39.79	5.15	Average	100	226
6	7440.00	56.22	74.00	-17.78	51.07	5.15	Peak	100	226

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

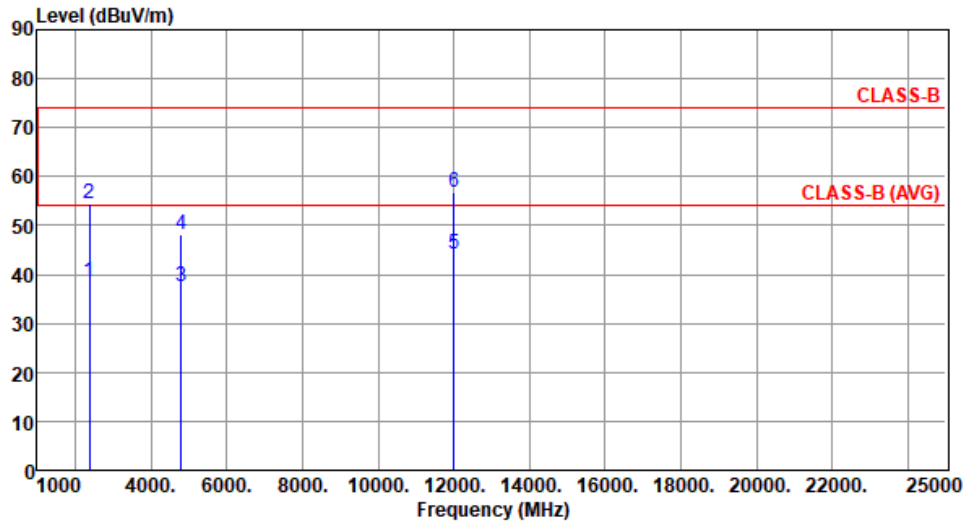
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2402
Polarization	Horizontal		

Test By : Paul Lin Temperature(°C): 26 Humidity(%): 61



	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	38.37	54.00	-15.63	42.91	-4.54	Average	100	249
2	2390.00	54.60	74.00	-19.40	59.14	-4.54	Peak	100	249
3	4804.00	37.55	54.00	-16.45	37.96	-0.41	Average	156	38
4	4804.00	48.06	74.00	-25.94	48.47	-0.41	Peak	156	38
5	12010.00	44.03	54.00	-9.97	37.82	6.21	Average	100	33
6	12010.00	56.85	74.00	-17.15	50.64	6.21	Peak	100	33

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

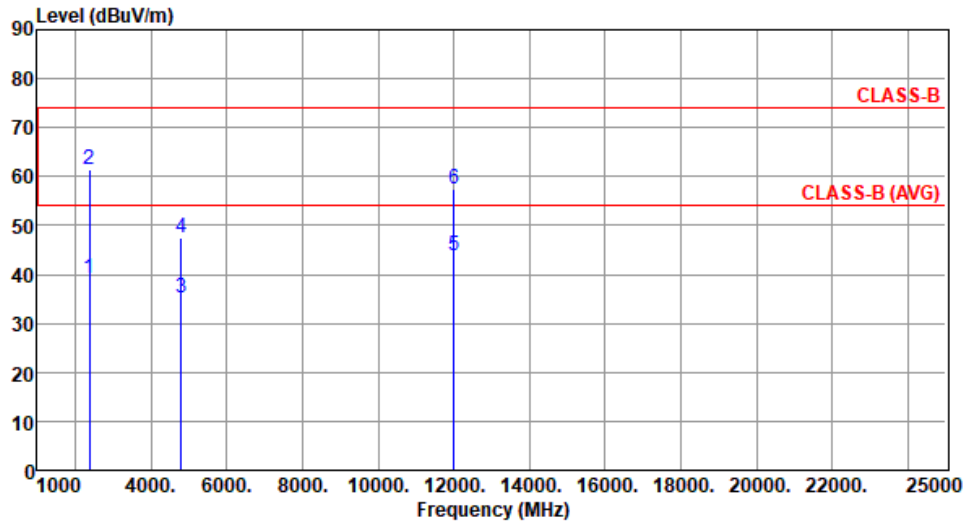
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2402
Polarization	Vertical		

Test By : Paul Lin Temperature(°C): 26 Humidity(%): 61



	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	39.33	54.00	-14.67	43.87	-4.54	Average	140	183
2	2390.00	61.41	74.00	-12.59	65.95	-4.54	Peak	140	183
3	4804.00	35.07	54.00	-18.93	35.48	-0.41	Average	100	51
4	4804.00	47.50	74.00	-26.50	47.91	-0.41	Peak	100	51
5	12010.00	43.97	54.00	-10.03	37.76	6.21	Average	100	19
6	12010.00	57.39	74.00	-16.61	51.18	6.21	Peak	100	19

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

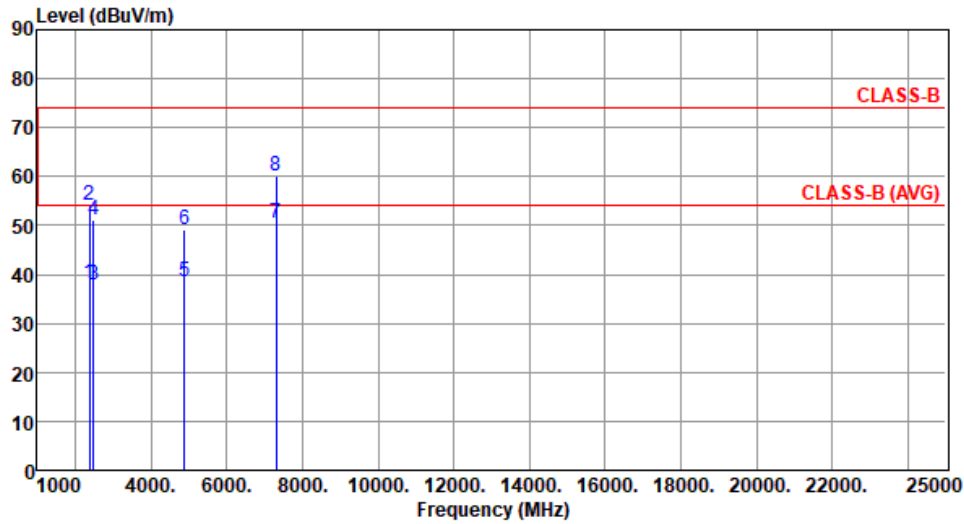
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2440
Polarization	Horizontal		

Test By : Paul Lin Temperature(°C): 26 Humidity(%): 61



	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	38.16	54.00	-15.84	42.70	-4.54	Average	100	226
2	2390.00	54.27	74.00	-19.73	58.81	-4.54	Peak	100	226
3	2483.50	37.98	54.00	-16.02	42.76	-4.78	Average	100	226
4	2483.50	51.02	74.00	-22.98	55.80	-4.78	Peak	100	226
5	4880.00	38.60	54.00	-15.40	39.03	-0.43	Average	158	39
6	4880.00	49.10	74.00	-24.90	49.53	-0.43	Peak	158	39
7	7320.00	50.54	54.00	-3.46	45.31	5.23	Average	100	117
8	7320.00	60.18	74.00	-13.82	54.95	5.23	Peak	100	117

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

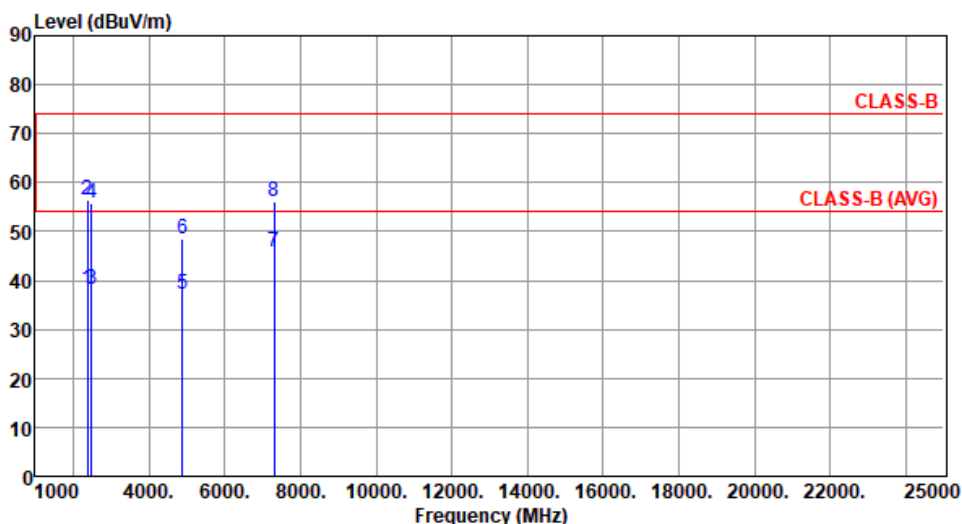
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2440
Polarization	Vertical		

Test By :Paul Lin Temperature(°C):26 Humidity(%):61



	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	38.21	54.00	-15.79	42.75	-4.54	Average	137	178
2	2390.00	56.41	74.00	-17.59	60.95	-4.54	Peak	137	178
3	2483.50	38.04	54.00	-15.96	42.82	-4.78	Average	137	178
4	2483.50	55.67	74.00	-18.33	60.45	-4.78	Peak	137	178
5	4880.00	37.28	54.00	-16.72	37.71	-0.43	Average	100	55
6	4880.00	48.55	74.00	-25.45	48.98	-0.43	Peak	100	55
7	7320.00	45.98	54.00	-8.02	40.75	5.23	Average	100	223
8	7320.00	56.12	74.00	-17.88	50.89	5.23	Peak	100	223

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

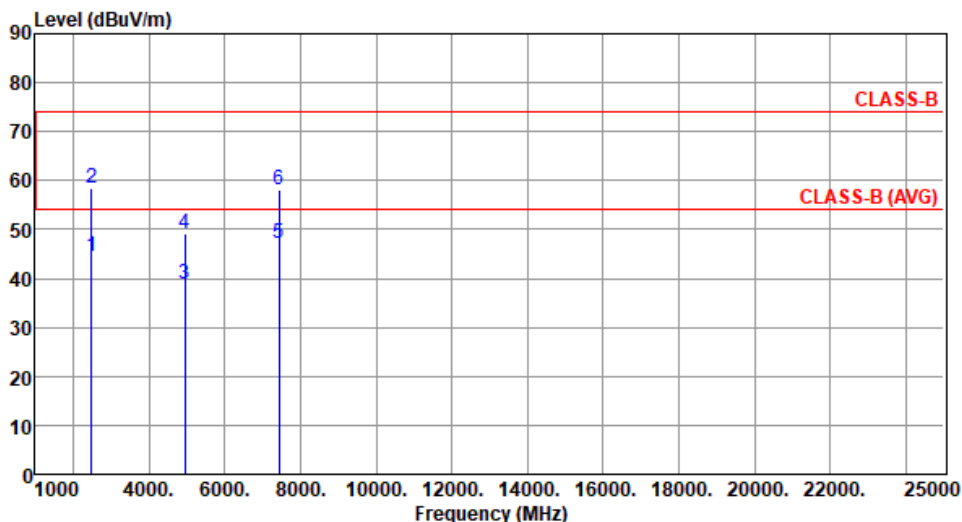
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2480
Polarization	Horizontal		

Test By : Paul Lin Temperature(°C): 26 Humidity(%): 61



	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	44.49	54.00	-9.51	49.27	-4.78	Average	100	233
2	2483.50	58.46	74.00	-15.54	63.24	-4.78	Peak	100	233
3	4960.00	38.96	54.00	-15.04	39.29	-0.33	Average	145	36
4	4960.00	49.29	74.00	-24.71	49.62	-0.33	Peak	145	36
5	7440.00	47.07	54.00	-6.93	41.92	5.15	Average	100	121
6	7440.00	57.99	74.00	-16.01	52.84	5.15	Peak	100	121

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

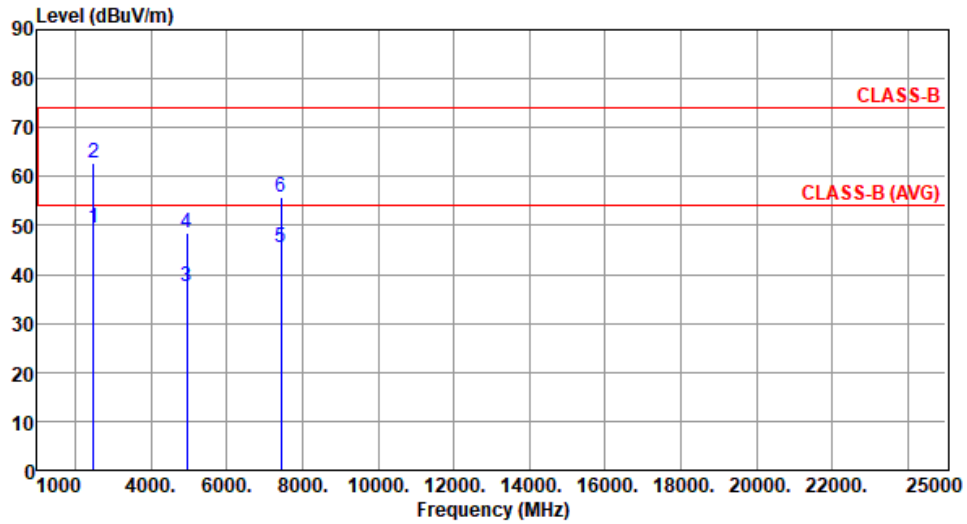
*Factor includes antenna factor , cable loss and amplifier gain

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



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2480
Polarization	Vertical		

Test By : Paul Lin Temperature(°C): 26 Humidity(%): 61

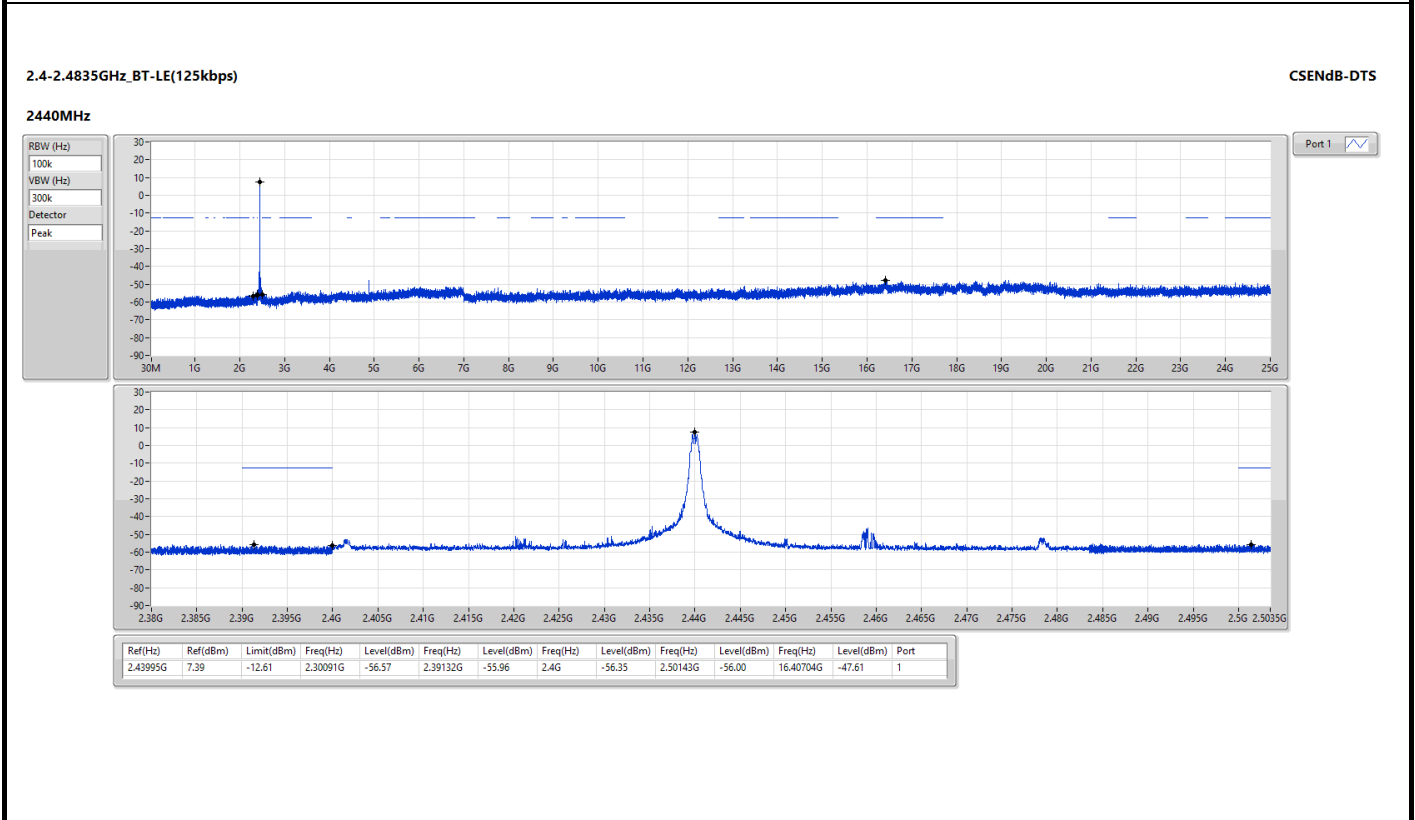
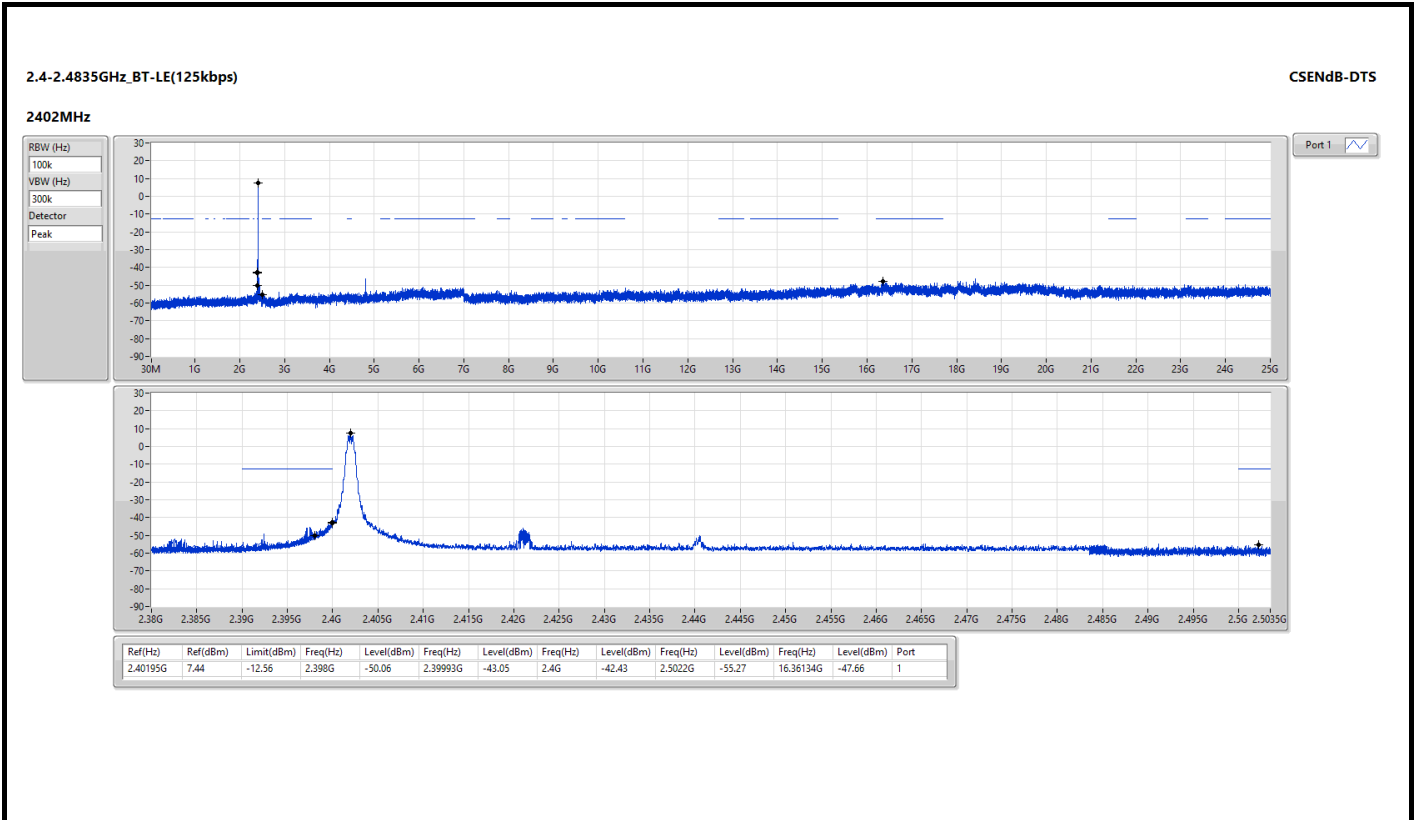


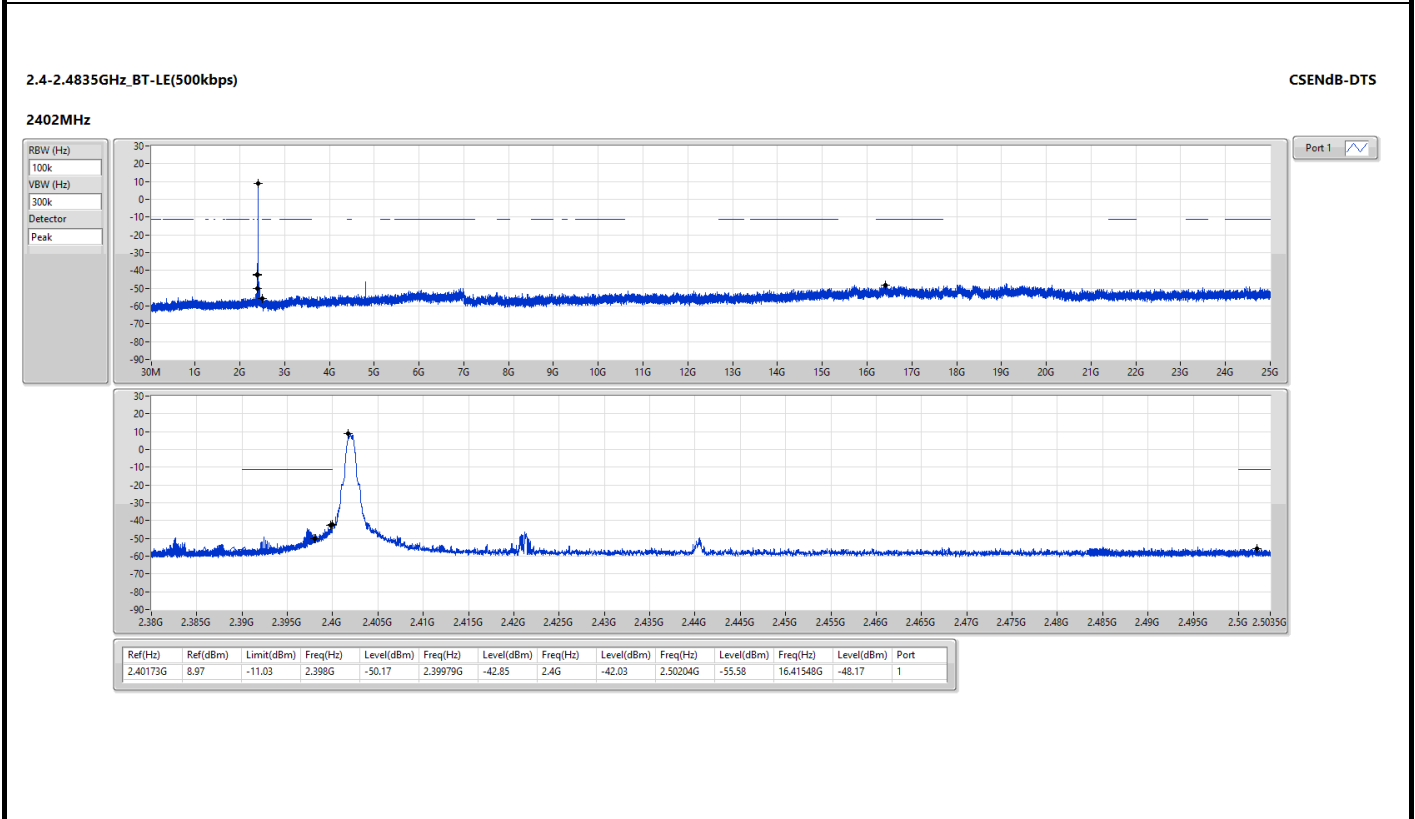
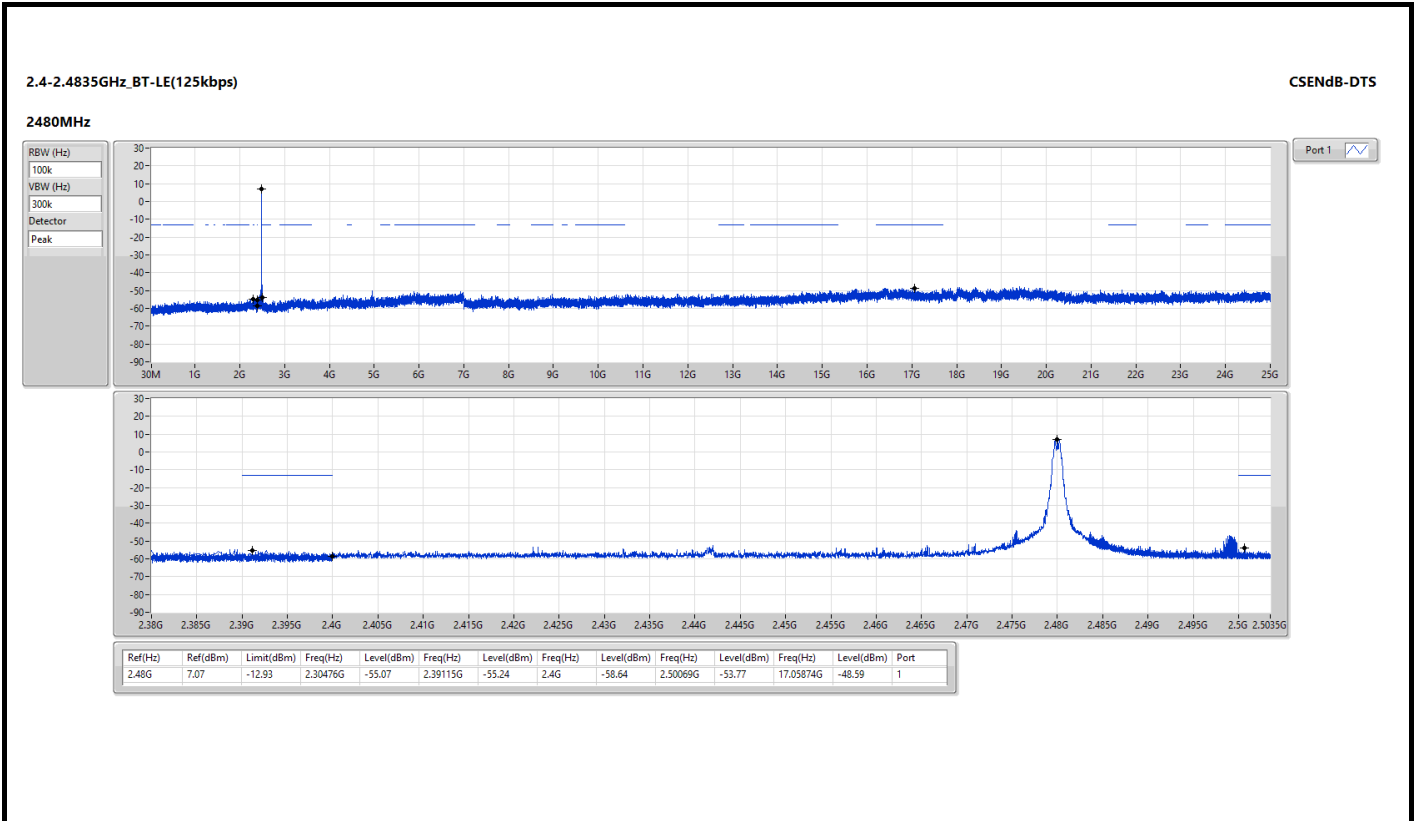
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.52	54.00	-4.48	54.30	-4.78	Average	126	181
2	2483.50	62.93	74.00	-11.07	67.71	-4.78	Peak	126	181
3	4960.00	37.38	54.00	-16.62	37.71	-0.33	Average	100	47
4	4960.00	48.45	74.00	-25.55	48.78	-0.33	Peak	100	47
5	7440.00	45.35	54.00	-8.65	40.20	5.15	Average	100	226
6	7440.00	55.71	74.00	-18.29	50.56	5.15	Peak	100	226

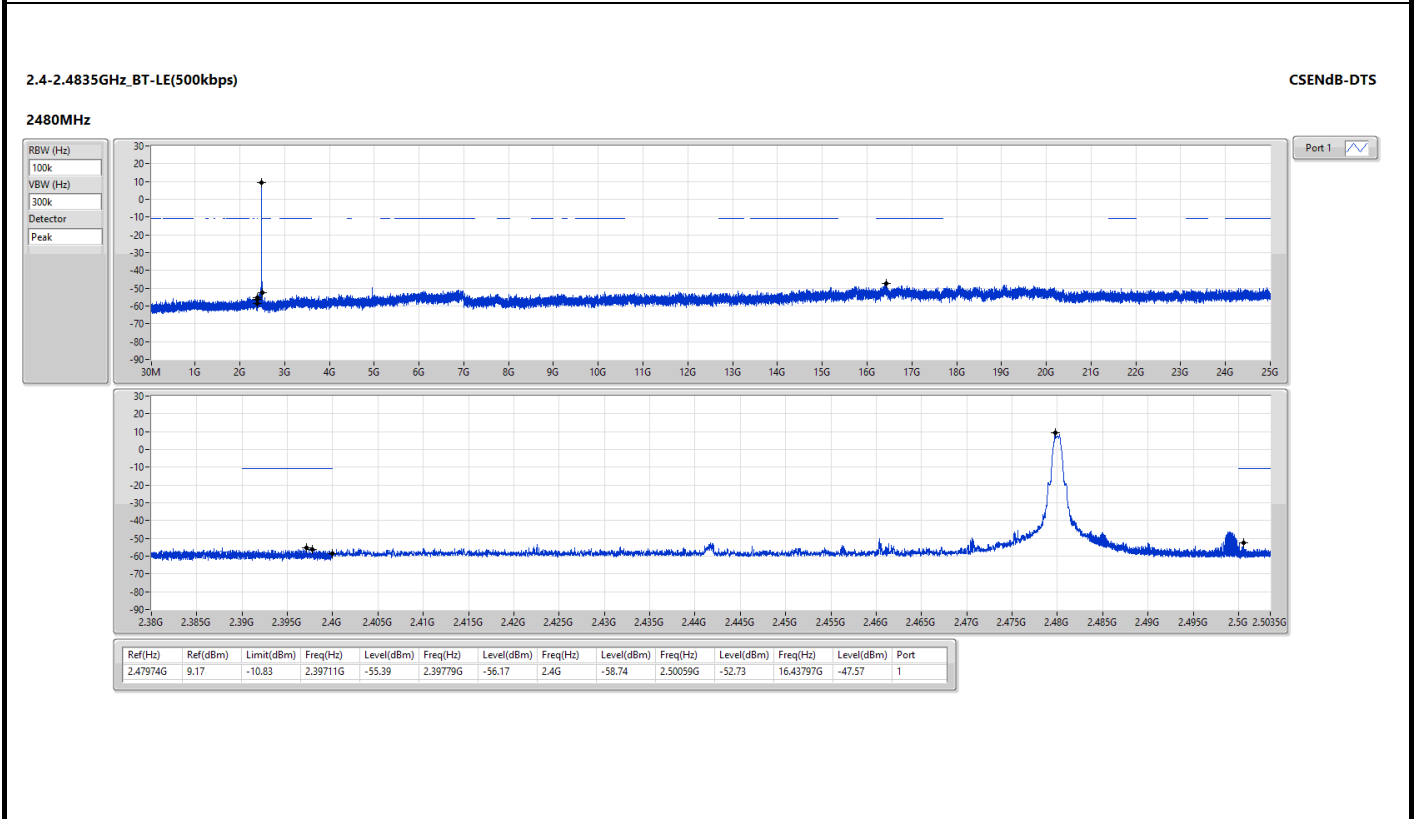
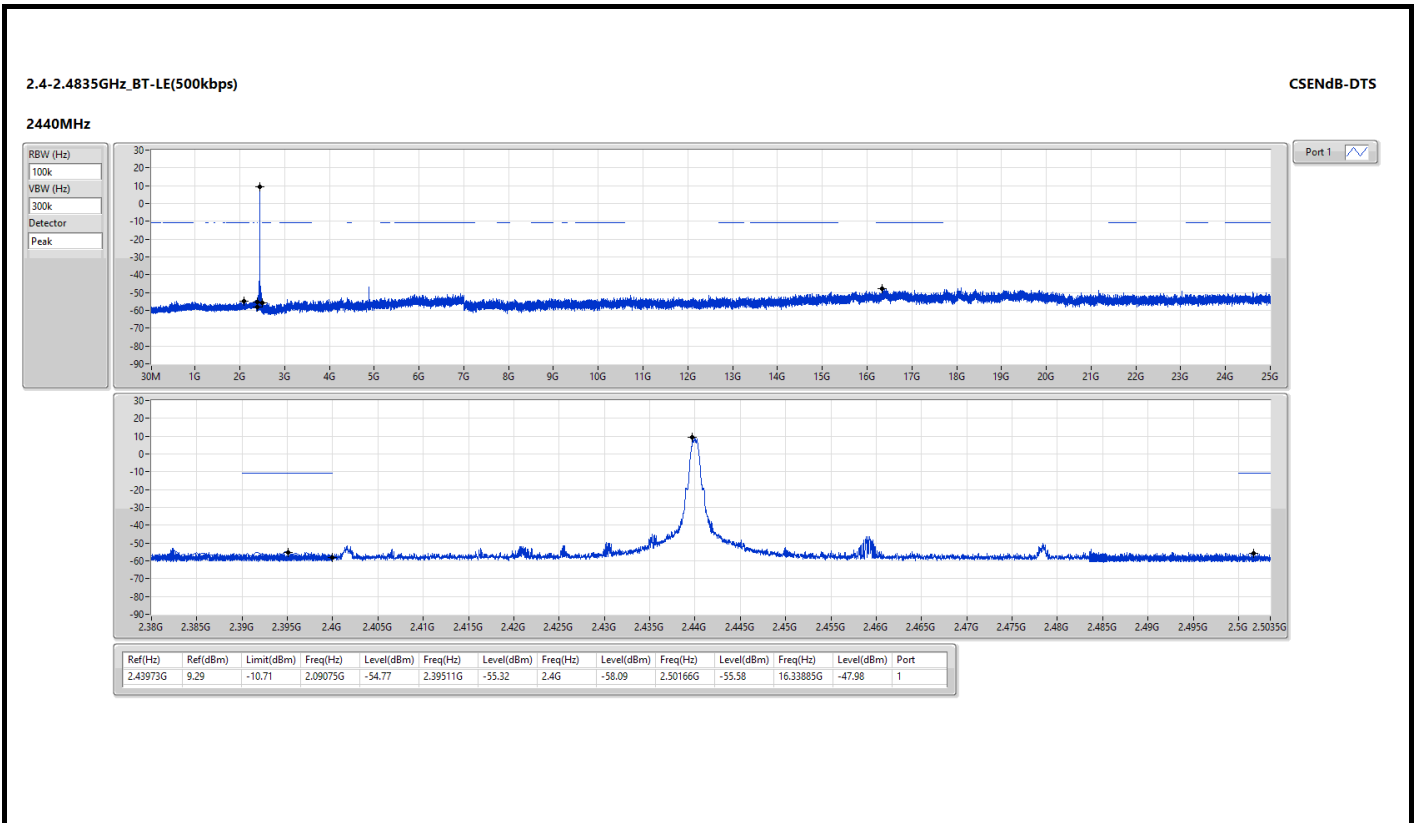
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

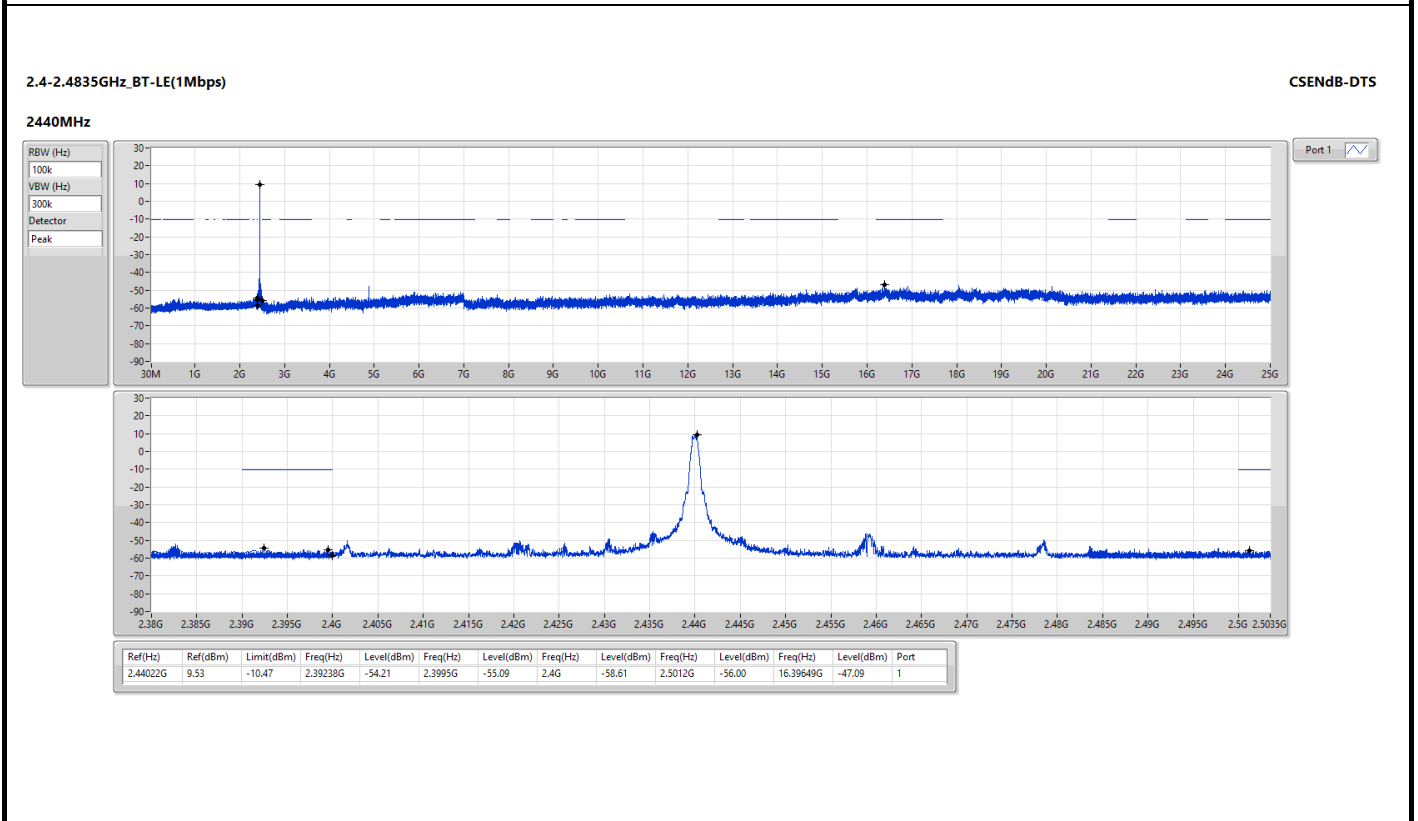
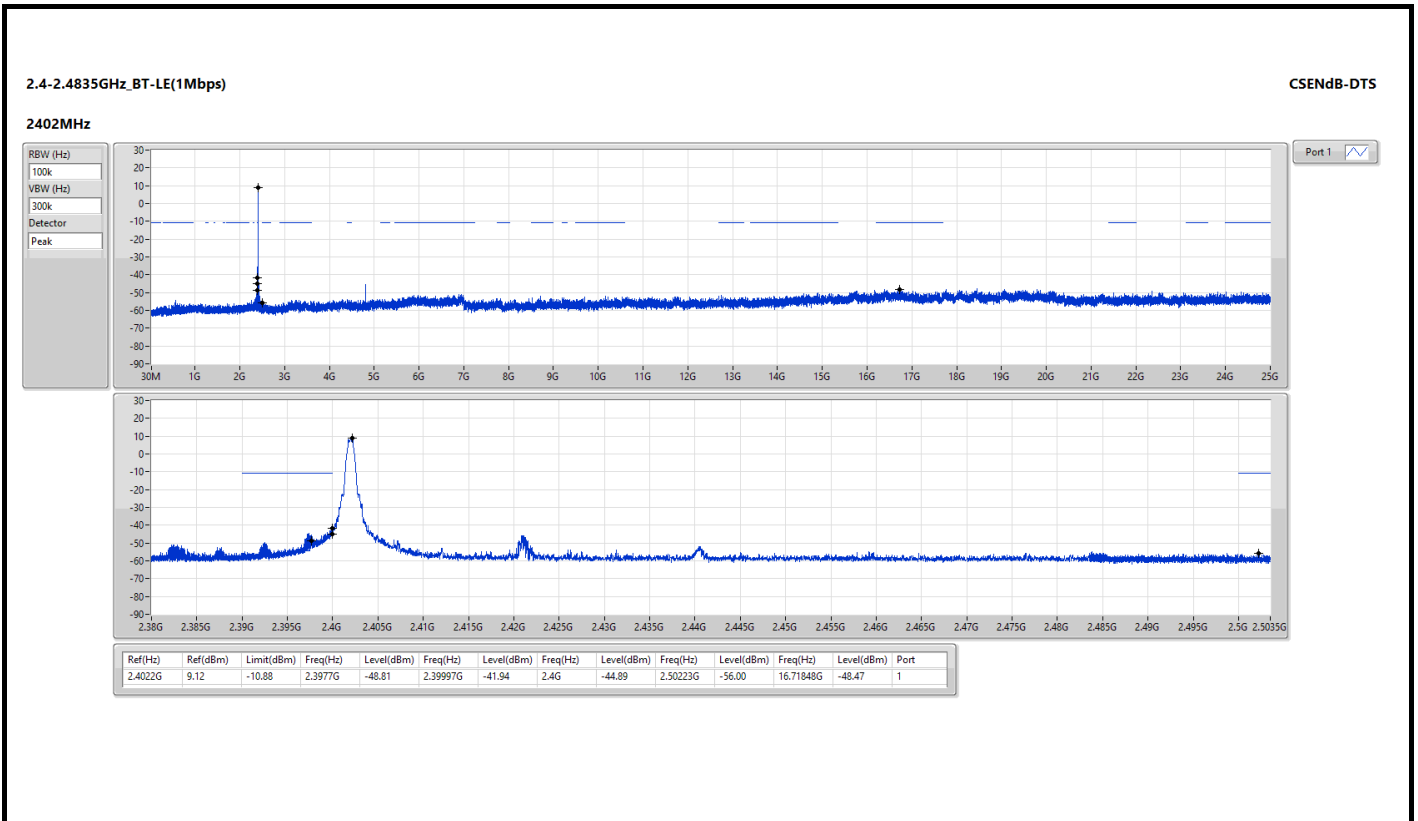
*Factor includes antenna factor , cable loss and amplifier gain

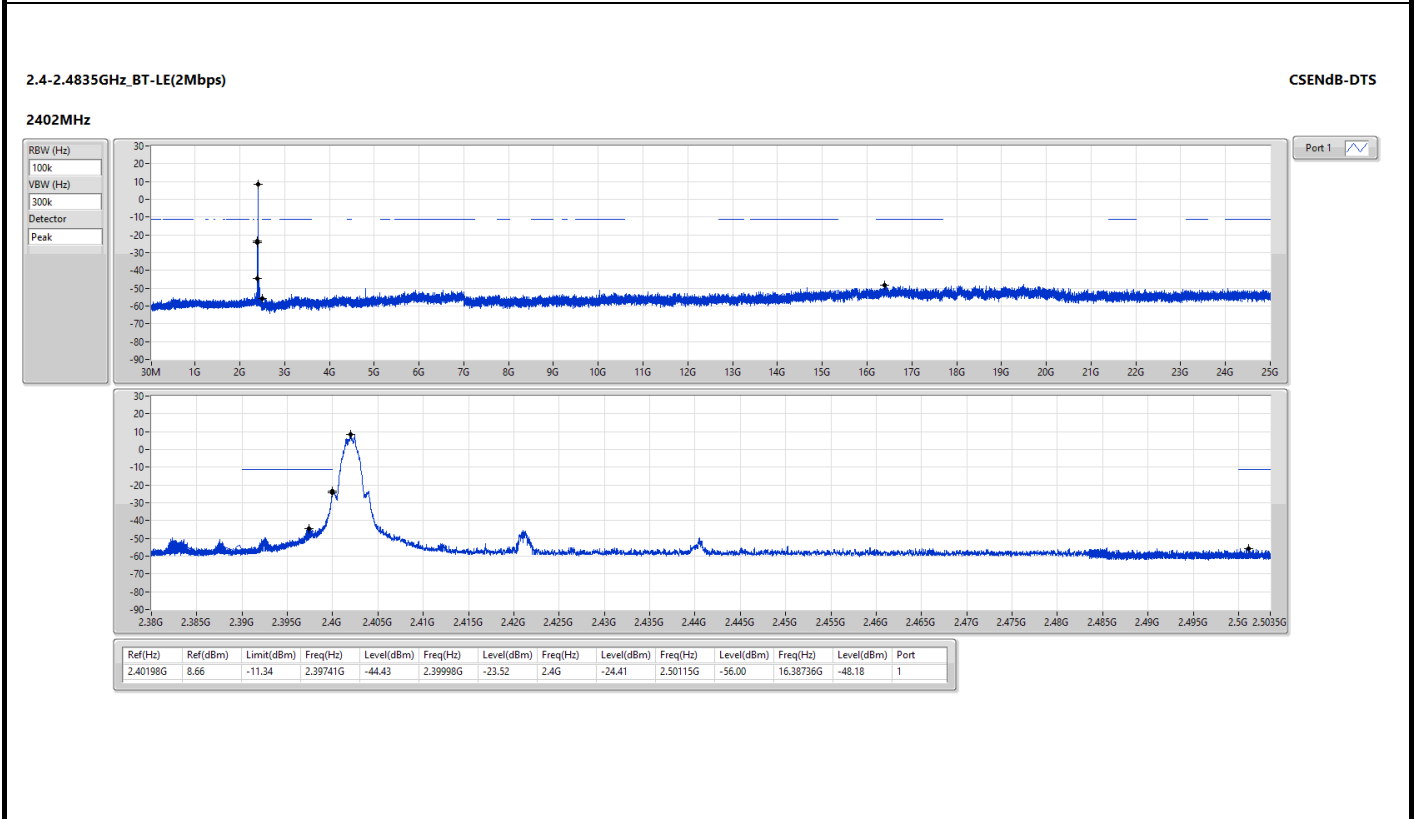
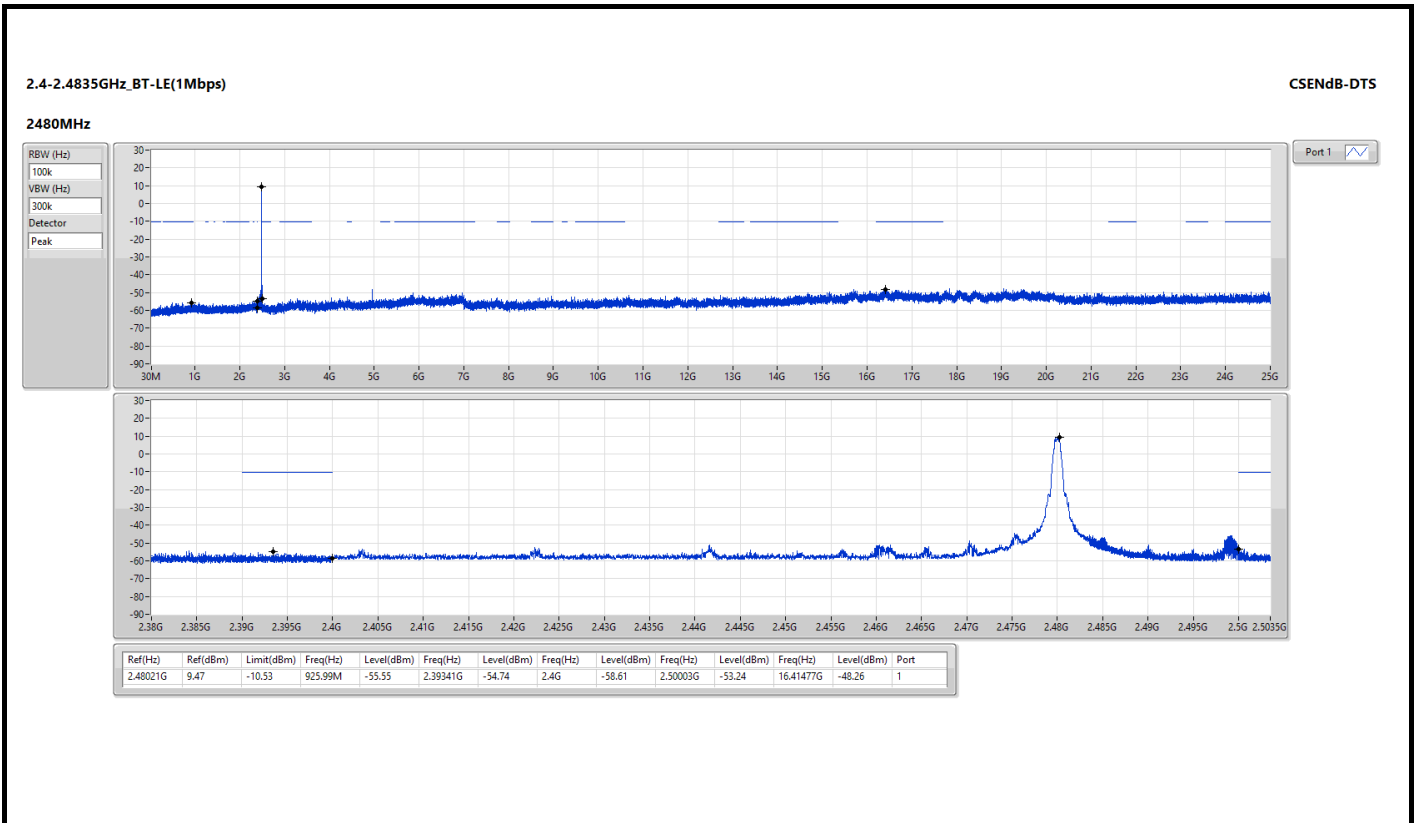
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

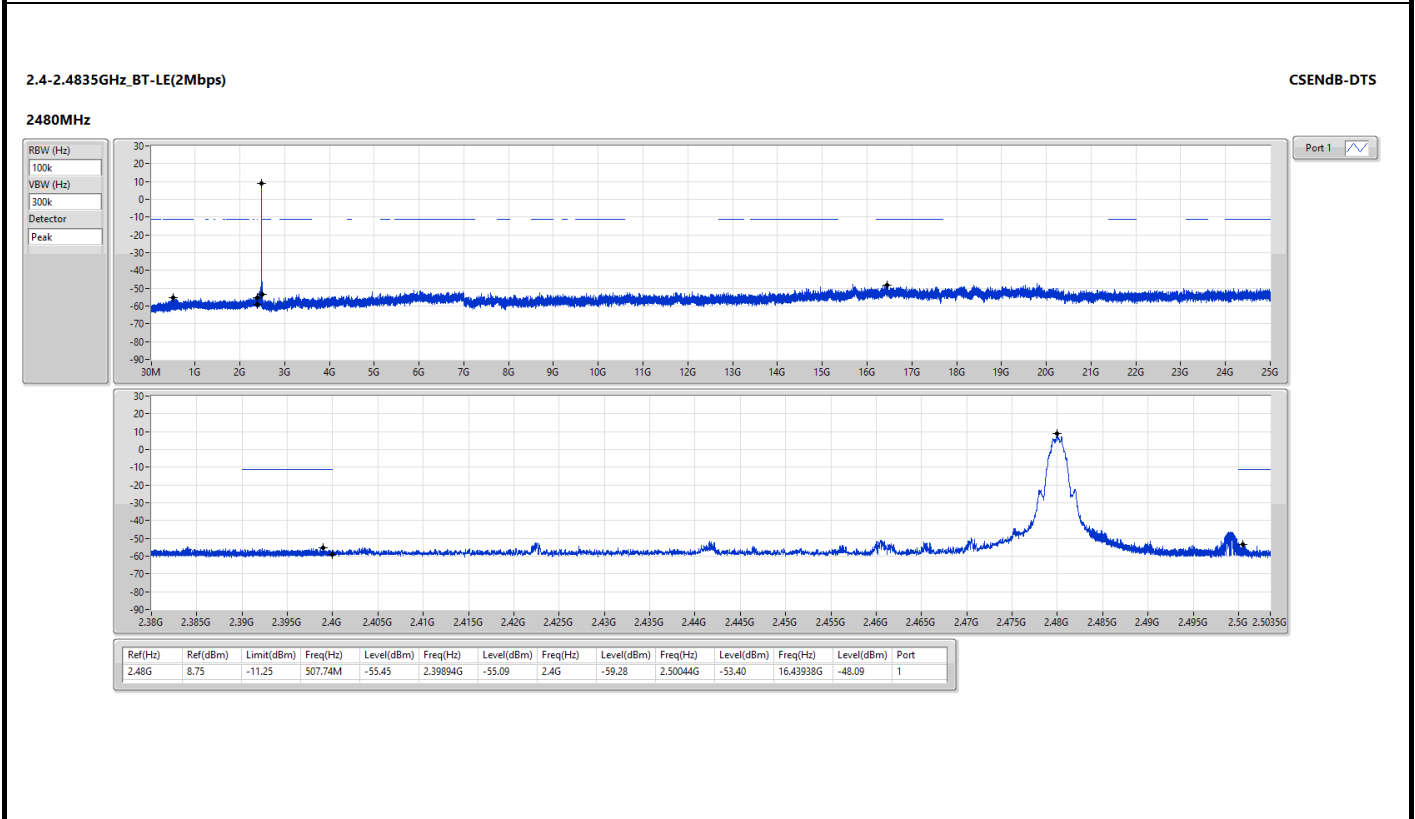
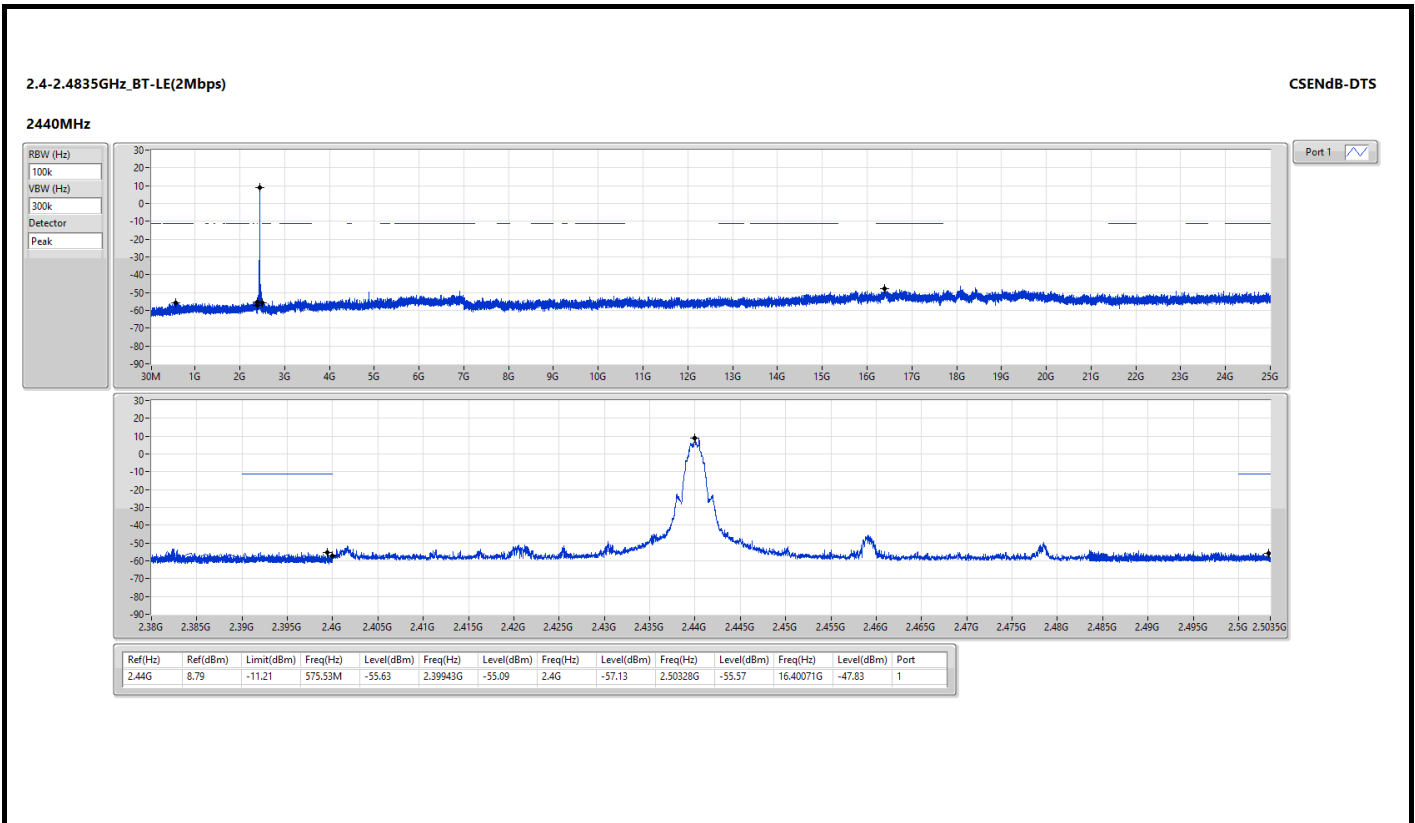








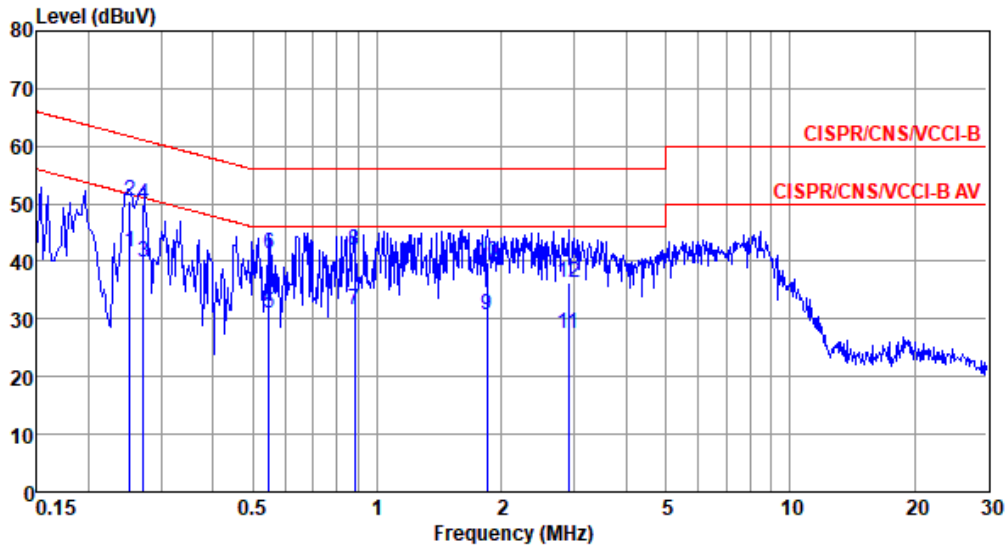






Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2402
Power Phase	Line		

Test by : Joe Liao Temperature: 23°C Humidity: 63%



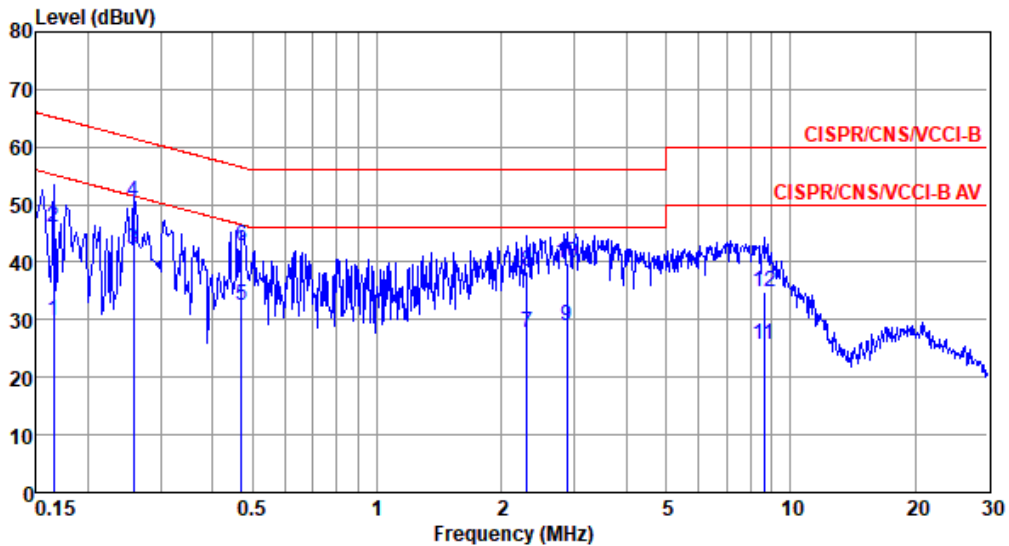
	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1*	0.252	41.53	51.69	-10.16	31.62	9.62	0.06	0.23	Average
2	0.252	50.50	61.69	-11.19	40.59	9.62	0.06	0.23	QP
3	0.272	39.78	51.07	-11.29	29.86	9.62	0.06	0.24	Average
4	0.272	49.76	61.07	-11.31	39.84	9.62	0.06	0.24	QP
5	0.546	30.86	46.00	-15.14	20.85	9.62	0.08	0.31	Average
6	0.546	41.33	56.00	-14.67	31.32	9.62	0.08	0.31	QP
7	0.880	31.52	46.00	-14.48	21.46	9.63	0.10	0.33	Average
8	0.880	41.78	56.00	-14.22	31.72	9.63	0.10	0.33	QP
9	1.848	30.80	46.00	-15.20	20.68	9.63	0.13	0.36	Average
10	1.848	39.81	56.00	-16.19	29.69	9.63	0.13	0.36	QP
11	2.900	27.55	46.00	-18.45	17.36	9.64	0.16	0.39	Average
12	2.900	36.33	56.00	-19.67	26.14	9.64	0.16	0.39	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
 Note 2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).



Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2402
Power Phase	Neutral		

Test by : Joe Liao Temperature: 23°C Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.165	29.70	55.21	-25.51	19.83	9.63	0.06	0.18	Average
2	0.165	46.09	65.21	-19.12	36.22	9.63	0.06	0.18	QP
3*	0.258	42.33	51.51	-9.18	32.41	9.63	0.06	0.23	Average
4	0.258	50.58	61.51	-10.93	40.66	9.63	0.06	0.23	QP
5	0.471	32.38	46.49	-14.11	22.38	9.62	0.07	0.31	Average
6	0.471	42.85	56.49	-13.64	32.85	9.62	0.07	0.31	QP
7	2.309	27.75	46.00	-18.25	17.60	9.64	0.14	0.37	Average
8	2.309	38.27	56.00	-17.73	28.12	9.64	0.14	0.37	QP
9	2.884	28.90	46.00	-17.10	18.70	9.65	0.16	0.39	Average
10	2.884	39.91	56.00	-16.09	29.71	9.65	0.16	0.39	QP
11	8.637	25.79	50.00	-24.21	15.32	9.70	0.33	0.44	Average
12	8.637	34.71	60.00	-25.29	24.24	9.70	0.33	0.44	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).