



RADIO TEST REPORT

FCC ID : ZQ6-AP6275P
Equipment : Wi-Fi/Bluetooth Module
Brand Name : AMPAK Technology Inc.
Model Name : AP6275P
Applicant : AMPAK Technology Inc.
3F, No. 1, Jen Ai Road, Hsinchu Industrial Park, Hsinchu City
30352, Taiwan (R.O.C.)
Manufacturer : BILLIONTON SYSTEMS INC.
No. 21, Sui-Lih Rd., Hsin-Chu City 300, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 17, 2024, and testing was started from Jun. 26, 2024 and completed on Aug. 09, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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TEL : 886-3-656-9065
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Report Template No.: CB-A10 5 Ver1.3



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	20dB Bandwidth	PASS	-
3.2	15.247(a)	Carrier Frequency Separation	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(a)	Number of Hopping Frequencies and Hopping Band edge	PASS	-
3.5	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.7	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Cathy Chiu



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Version	Ch. Frequency (MHz)	Channel Number
2400-2483.5	BR / EDR	2402-2480	0-78 [79]

Band	Mode	BWch	Nant
2.4-2.4835GHz	BT-BR(1Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(2Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(3Mbps)	1	1TX

Note:

- ♦ Bluetooth BR uses a GFSK (1Mbps).
- ♦ Bluetooth EDR uses a combination of $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- ♦ Bluetooth BR/EDR uses as a system using FHSS modulation.
- ♦ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz	Bluetooth					
1	1	1	1	PULSE ELECTRONICS PTE LTD	TZ2412W	Dipole	Reversed-SMA	Note1
2	2	2	-	PULSE ELECTRONICS PTE LTD	TZ2412W	Dipole	Reversed-SMA	

Note1:

Ant.	Antenna Gain (dBi)		
	WLAN 2.4GHz	WLAN 5GHz UNII 1~3	Bluetooth
1	3.68	4.65	3.68
2	3.68	4.65	-

Note2: The above information was declared by manufacturer.

Note3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2$$

$$DG = 10 \log[(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G \ G1 = 3.68 \text{ dBi} ; G2 = 3.68 \text{ dBi} ;$$

$$5G \text{ UNII-1} \ G1 = 4.65 \text{ dBi} ; G2 = 4.65 \text{ dBi} ;$$

$$5G \text{ UNII-2A} \ G1 = 4.65 \text{ dBi} ; G2 = 4.65 \text{ dBi} ;$$

$$5G \text{ UNII-2C} \ G1 = 4.65 \text{ dBi} ; G2 = 4.65 \text{ dBi} ;$$

$$5G \text{ UNII-3} \ G1 = 4.65 \text{ dBi} ; G2 = 4.65 \text{ dBi} ;$$

$$2.4G \ DG = 6.69 \text{ dBi}$$

$$5G \text{ UNII-1} \ DG = 7.66 \text{ dBi}$$

$$5G \text{ UNII-2A} \ DG = 7.66 \text{ dBi}$$

$$5G \text{ UNII-2C} \ DG = 7.66 \text{ dB}$$

$$5G \text{ UNII-3} \ DG = 7.66 \text{ dBi}$$

**For 2.4GHz function:****For IEEE 802.11b/g/n/ax (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:**For IEEE 802.11a/n/ac/ax (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-BR(1Mbps)	0.741	1.3	2.887m	1k
BT-EDR(2Mbps)	0.778	1.09	2.876m	1k
BT-EDR(3Mbps)	0.785	1.05	2.89m	1k

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From host system
Test Software Version	Broadcom BlueTool 1.9.7.4



1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15.247

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Mason Chen	22.2~25.7 / 61~66	Jun. 27, 2024~ Jun. 29, 2024
Radiated (below 1GHz)	03CH06-CB	Jackson Peng	21.9-22.4 / 55-58	Aug. 05, 2024
Radiated (above 1GHz)	03CH04-CB	Gordon Hung	22-23 / 55-58	Jun. 26, 2024~ Jun. 27, 2024
AC Conduction	CO01-CB	Ryan Huang	22~23 / 61~63	Aug. 09, 2024



1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.1 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
BT-BR(1Mbps)
2402MHz
2440MHz
2480MHz
BT-EDR(2Mbps)
2402MHz
2440MHz
2480MHz
BT-EDR(3Mbps)
2402MHz
2440MHz
2480MHz

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link or CTX
1	EUT + Bluetooth
2	EUT + WLAN 2.4GHz
3	EUT + WLAN 5GHz
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Z axis + Bluetooth
2	EUT in Z axis + WLAN 2.4GHz
3	EUT in Z axis + WLAN 5GHz
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Z axis



2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	T420	N/A
B	Fixture	AMPAK Technology Inc.	AP6271P_EVB_V05	N/A
C	ExpressCard	AMPAK Technology Inc.	E2M V1.0	N/A
D	Earphone	SHYARO CHI	MIC-04	N/A
E	Mouse	HP	FM100	N/A
F	BT Fixture	AMPAK Technology Inc.	UART_V06	N/A
G	AP Router	ASUS	RT-AX88U	MSQ-RTAXHP00
H	Adapter	Oppo	AK933GB	N/A

**For Radiated (below 1GHz):**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	Lenovo	42T4430	N/A
B	Fixture	AMPAK Technology Inc.	AP6271P_EVB_V05	N/A
C	ExpressCard	AMPAK Technology Inc.	E2M V1.0	N/A
D	Earphone	e-Power	S90W	N/A
E	Mouse	Logitech	M-U0026	N/A
F	BT Fixture	AMPAK Technology Inc.	UART_V06	N/A
G	AP Router	ASUS	RT-AX88U	N/A
H	Adapter	Apple	A1385	N/A

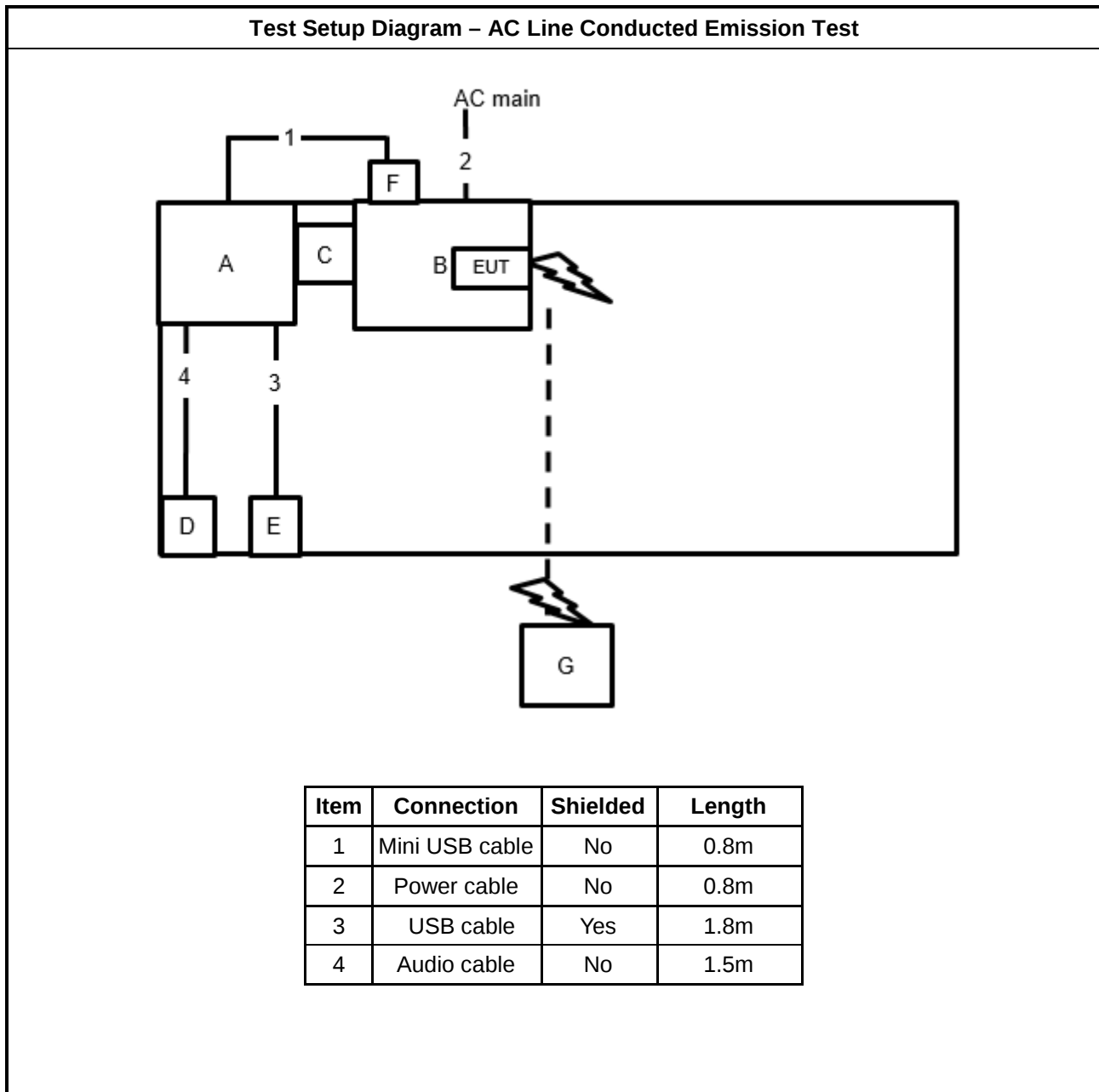
For Radiated (above 1GHz):

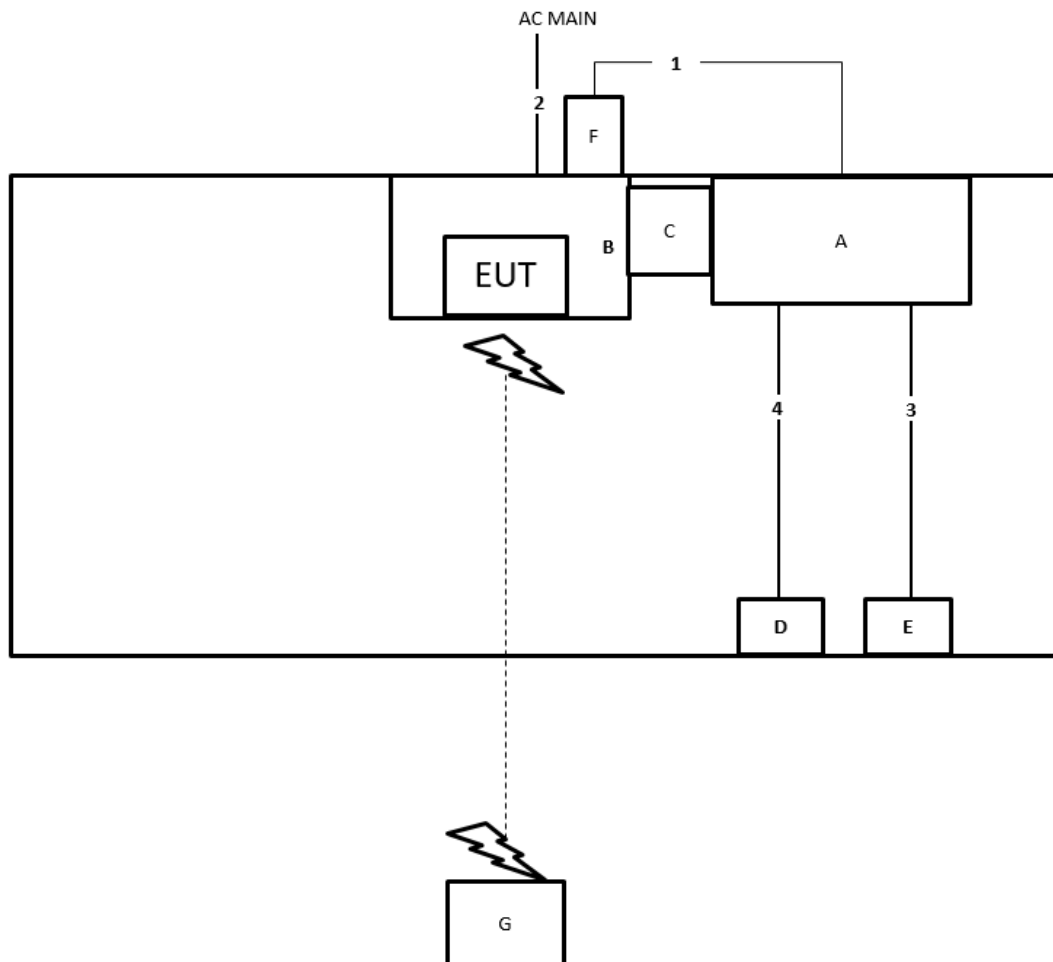
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	DC Power Supply	MOTECH	LPS-305	N/A
B	PC	AMPAK Technology Inc.	H81-PLUS	N/A
C	Fixture	AMPAK Technology Inc.	AP6271P_EVB_V05	N/A
D	BT Fixture	AMPAK Technology Inc.	UART_V06	N/A

For RF Conducted:

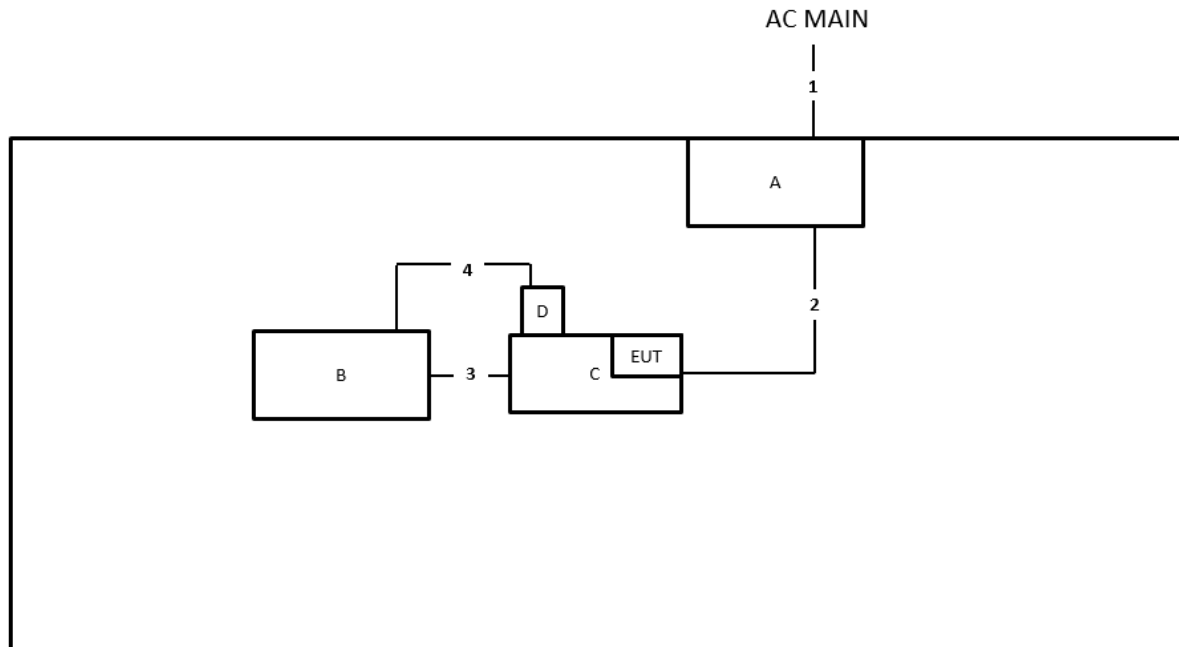
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PC	AMPAK Technology Inc.	H81-PLUS	N/A
B	Fixture	AMPAK Technology Inc.	AP6271P_EVB_V05	N/A
C	BT Fixture	AMPAK Technology Inc.	UART_V06	N/A
D	DC Power Supply	MOTECH	LPS-305	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Mini USB cable	No	1m
2	Power cable	No	1.5m
3	USB cable	Yes	1m
4	Audio cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Crocodile clip cable*2	No	1.5m
3	Console cable	No	1m
4	USB to Mini cable	Yes	1m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line 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.		

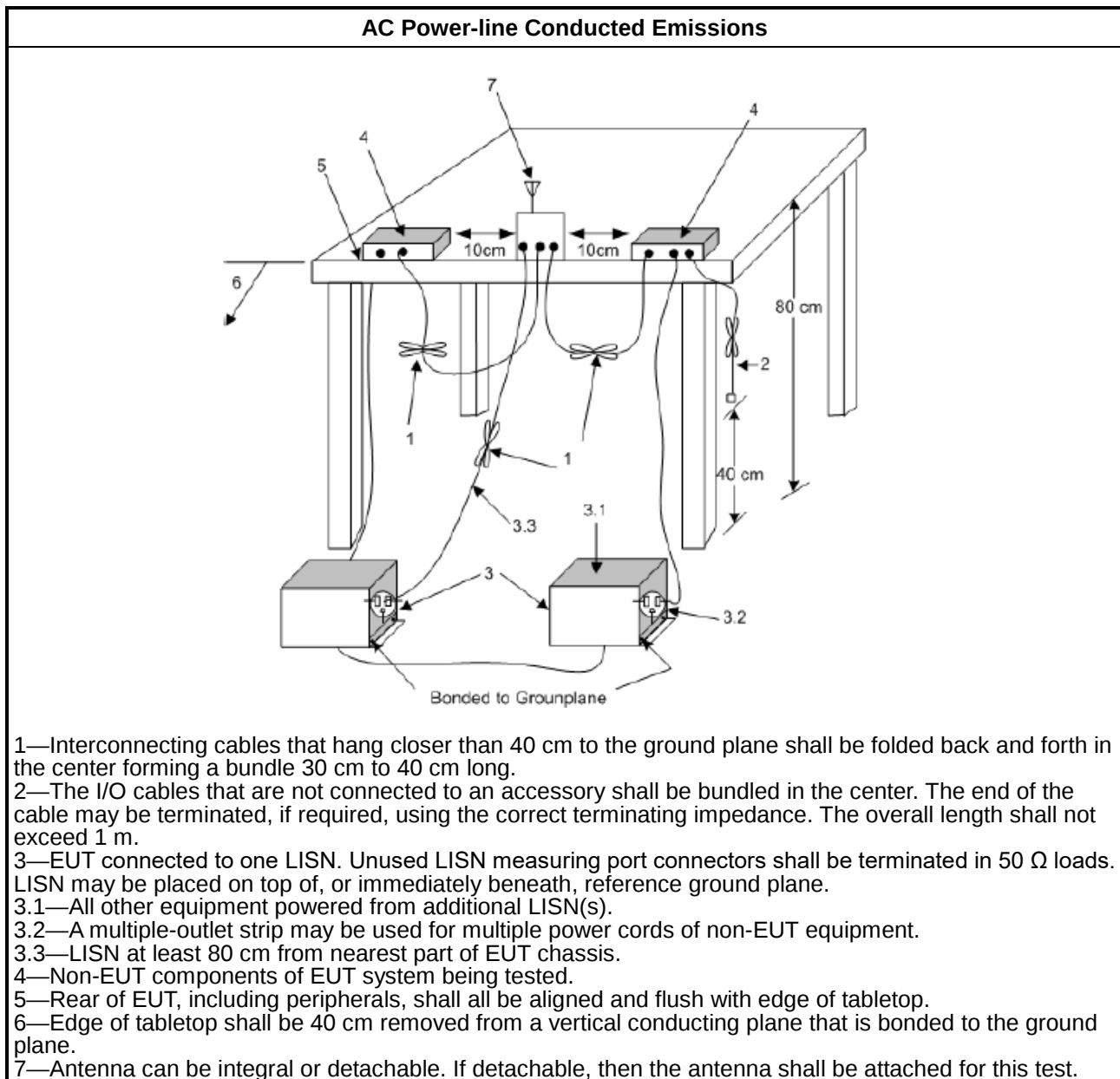
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



1.1.1. Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq \text{MAX}$ (20 dB bandwidth 2/3, 25 kHz).
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

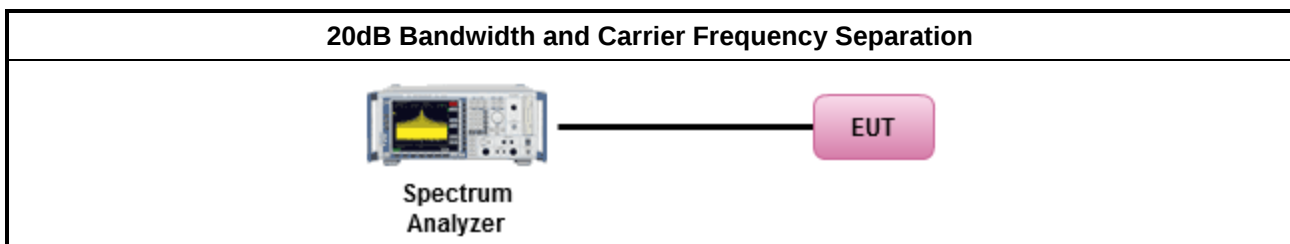
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 6.9.1 for 20 dB bandwidth measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
▪ 902-928 MHz Band:	
▪ N ≥ 50; Power 30dBm; EIRP 36dBm	
▪ 50 > N ≥ 25; Power 23.98dBm; EIRP 29.98dBm	
▪ 2400-2483.5 MHz Band:	
▪ N ≥ 75; Power 30dBm; EIRP 36dBm	
▪ 75 > N ≥ 15; Power 21dBm; EIRP 27dBm	
▪ 5725-5850 MHz Band:	
▪ N ≥ 75; Power 30dBm; EIRP 36dBm	
N: Number of Hopping Frequencies	

3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.

3.3.4 Test Setup

Maximum Conducted Output Power (Peak Power Meter)
 The diagram illustrates the test setup for measuring Maximum Conducted Output Power. It shows a Power Meter (a blue and white device with a screen and buttons) connected via a black cable to an EUT (Equipment Under Test), which is represented by a pink rectangular block labeled 'EUT'. The Power Meter is also connected to a power source (a blue and white device) via another black cable. The entire setup is labeled 'Power Meter' at the bottom.

3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.
N: Number of Hopping Frequencies; ChS : Hopping Channel Separation	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

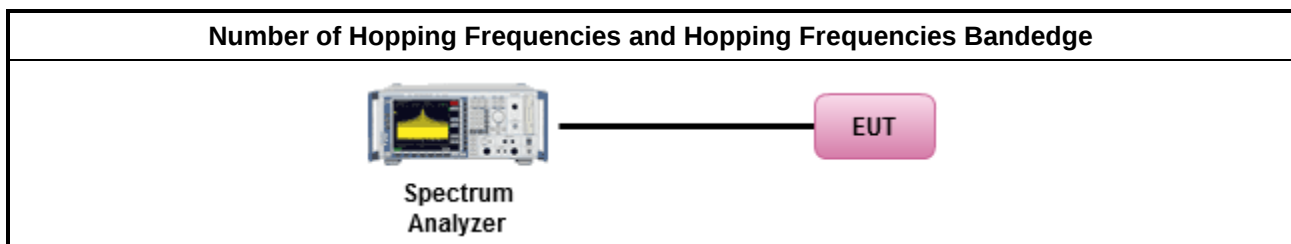
3.4.3 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.4 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.

3.4.5 Test Setup



3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$; 0.4s in 20s period
	▪ $50 > N \geq 25$; 0.4s in 10s period
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$; 0.4s in $N \times 0.4$ period
	▪ $75 > N \geq 15$; 0.4s in $N \times 0.4$ period
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$; 0.4s in 30s period
N: Number of Hopping Frequencies	

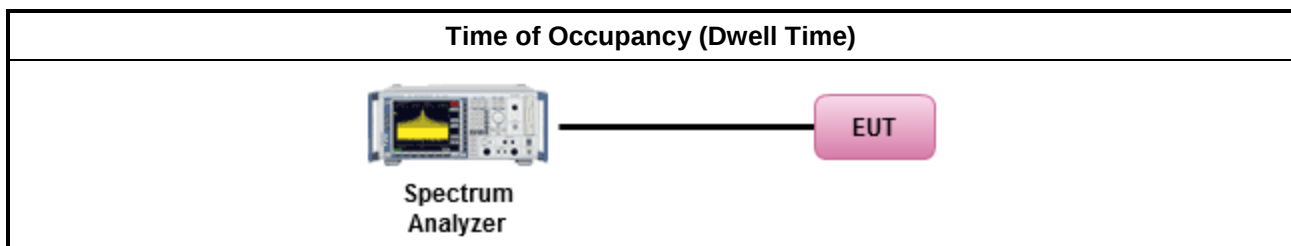
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
▪ Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.	
▪ Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.	
	▪ The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is $5/1600$ seconds, or 3.125ms. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel.

3.5.4 Test Setup



3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.	

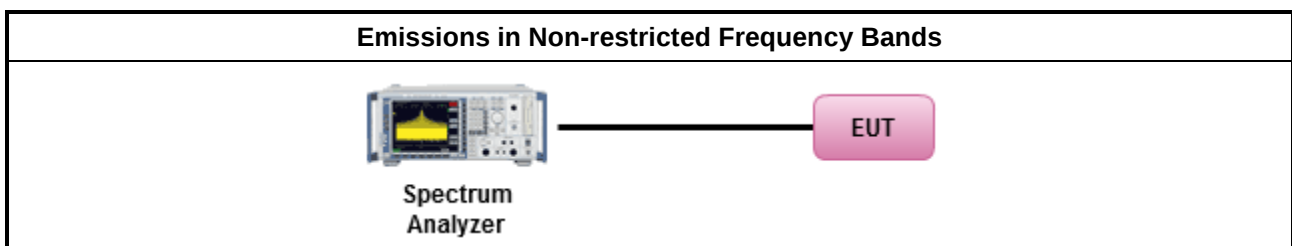
3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F



3.7 Emissions in Restricted Frequency Bands

3.7.1 Emissions in Restricted Frequency Bands Limit

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: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

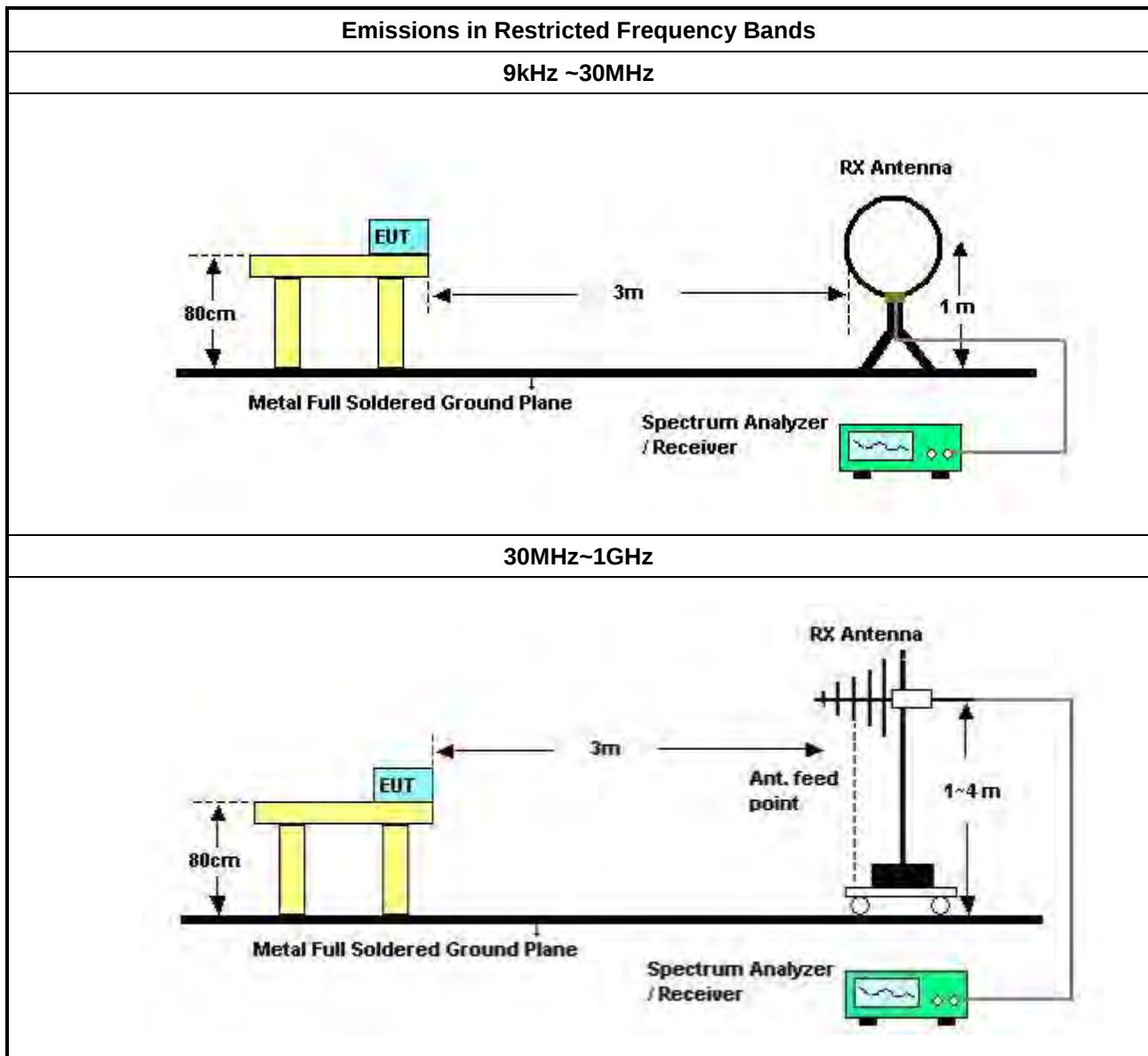
3.7.2 Measuring Instruments

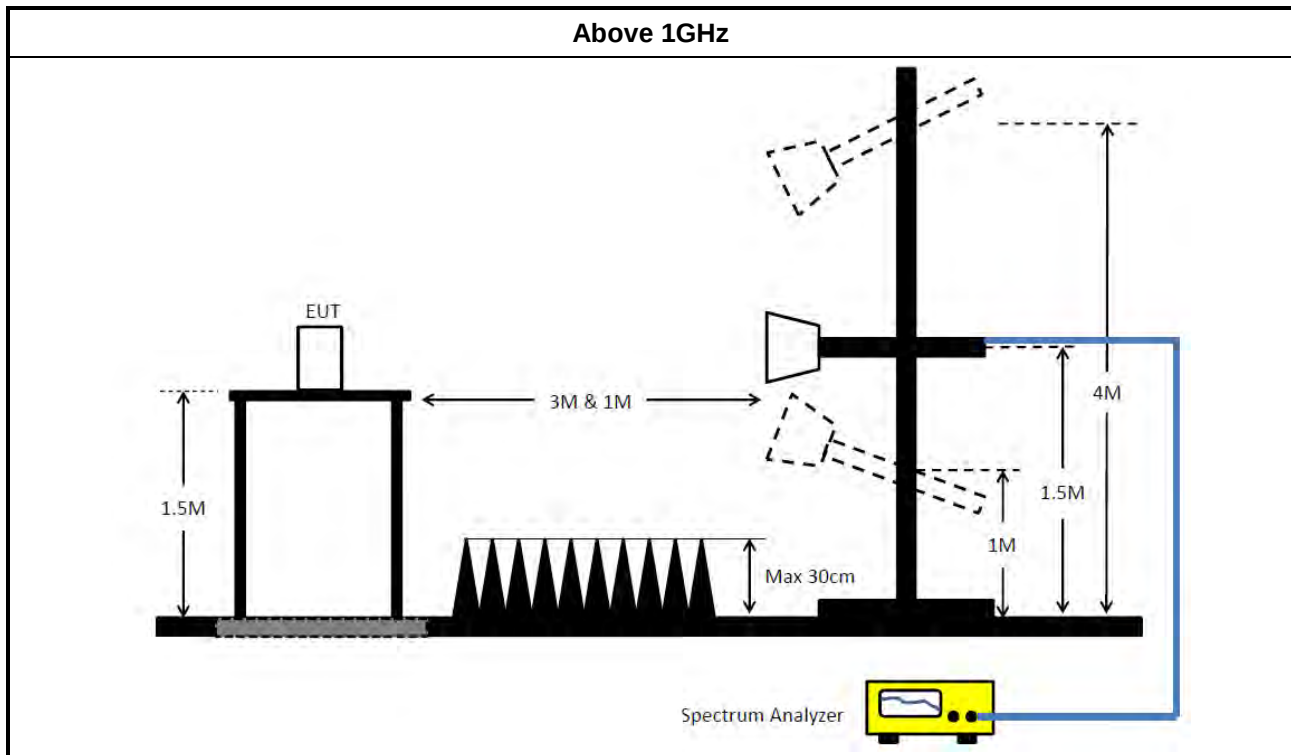
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [hopping duty factor].	
▪ Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.

3.7.4 Test Setup





3.7.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.7.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 01, 2024	Feb. 28, 2025	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-5 0-16-2	04083	150kHz ~ 100MHz	Feb. 19, 2024	Feb. 18, 2025	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 08, 2024	Feb. 07, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 02, 2024	Aug. 01, 2025	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 03, 2023	Nov. 02, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2024	Apr. 25, 2025	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 20, 2023	Oct. 19, 2024	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-24+68	30MHz~1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 22, 2024	Feb. 21, 2025	Radiation (03CH04-CB)
Horn Antenna	ETS-Lindgren	3115	00143147	750MHz~18GHz	Oct. 04, 2023	Oct. 03, 2024	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 19, 2024	Mar. 18, 2025	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 14, 2023	Aug. 13, 2024	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 19, 2023	Oct. 18, 2024	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 19, 2023	Oct. 18, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 –26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

NCR means Non-Calibration required.



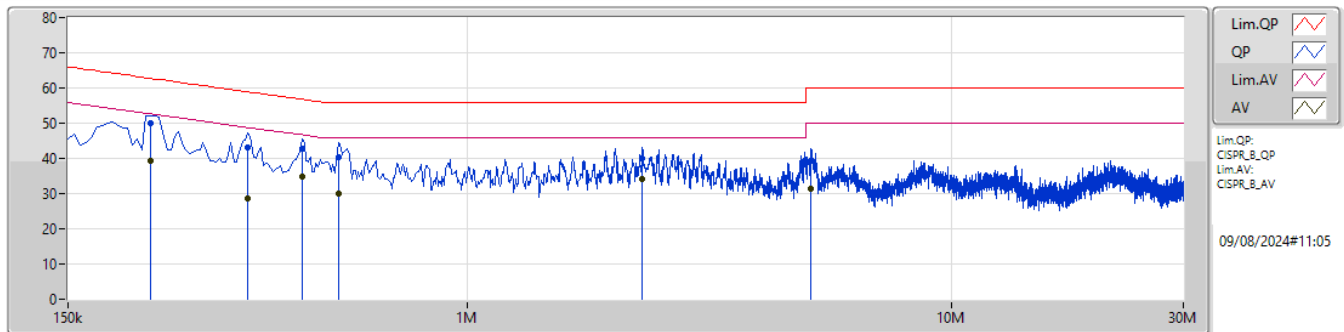
Conducted Emissions at Powerline

Appendix A

Summary

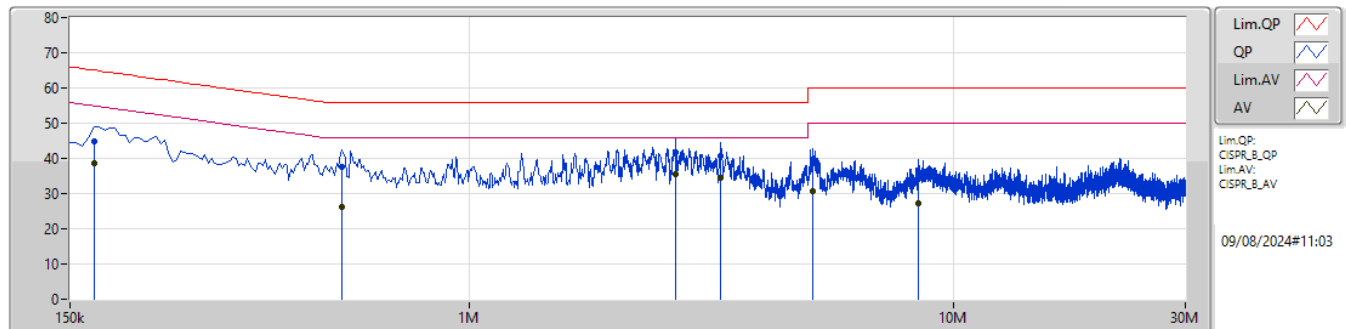
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	2.666M	35.47	46.00	-10.53	Neutral

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	222k	49.88	62.75	-12.87	9.92	Line	-	39.96	0.04	0.02	9.86						
AV	222k	39.37	52.75	-13.38	9.92	Line	-	29.45	0.04	0.02	9.86						
QP	352.5k	43.04	58.91	-15.87	9.95	Line	-	33.09	0.05	0.02	9.88						
AV	352.5k	28.75	48.91	-20.16	9.95	Line	-	18.80	0.05	0.02	9.88						
QP	456k	42.62	56.76	-14.14	9.96	Line	-	32.66	0.05	0.02	9.89						
AV	456k	34.96	46.76	-11.80	9.96	Line	"Worst"	25.00	0.05	0.02	9.89						
QP	541.5k	40.27	56.00	-15.73	9.98	Line	-	30.29	0.06	0.02	9.90						
AV	541.5k	30.03	46.00	-15.97	9.98	Line	-	20.05	0.06	0.02	9.90						
QP	2.297M	39.86	56.00	-16.14	10.07	Line	-	29.79	0.10	0.08	9.89						
AV	2.297M	34.03	46.00	-11.97	10.07	Line	-	23.96	0.10	0.08	9.89						
QP	5.123M	39.46	60.00	-20.54	10.20	Line	-	29.26	0.16	0.14	9.90						
AV	5.123M	31.39	50.00	-18.61	10.20	Line	-	21.19	0.16	0.14	9.90						

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	168k	44.75	65.06	-20.31	9.94	Neutral	-	34.81	0.06	0.02	9.86						
AV	168k	38.65	55.06	-16.41	9.94	Neutral	-	28.71	0.06	0.02	9.86						
QP	546k	37.71	56.00	-18.29	9.99	Neutral	-	27.72	0.07	0.02	9.90						
AV	546k	26.19	46.00	-19.81	9.99	Neutral	-	16.20	0.07	0.02	9.90						
QP	2.666M	41.76	56.00	-14.24	10.10	Neutral	-	31.66	0.11	0.10	9.89						
AV	2.666M	35.47	46.00	-10.53	10.10	Neutral	"Worst"	25.37	0.11	0.10	9.89						
QP	3.3M	40.58	56.00	-15.42	10.14	Neutral	-	30.44	0.12	0.12	9.90						
AV	3.3M	34.36	46.00	-11.64	10.14	Neutral	-	24.22	0.12	0.12	9.90						
QP	5.123M	38.53	60.00	-21.47	10.20	Neutral	-	28.33	0.16	0.14	9.90						
AV	5.123M	30.70	50.00	-19.30	10.20	Neutral	-	20.50	0.16	0.14	9.90						
QP	8.444M	34.18	60.00	-25.82	10.27	Neutral	-	23.91	0.22	0.14	9.91						
AV	8.444M	27.15	50.00	-22.85	10.27	Neutral	-	16.88	0.22	0.14	9.91						

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)	926.75k	868.683k	869KF1D	869k	836.424k
BT-EDR(3Mbps)	1.37M	1.225M	1M23G1D	1.328M	1.213M
BT-EDR(2Mbps)	1.375M	1.227M	1M23G1D	1.312M	1.218M

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

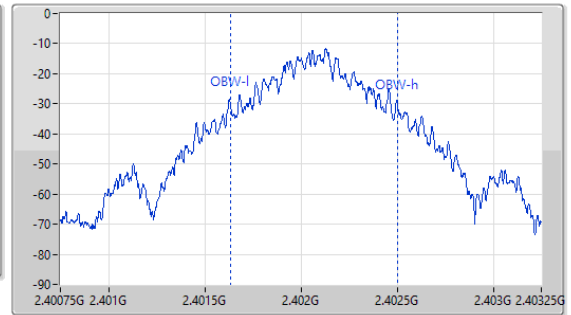
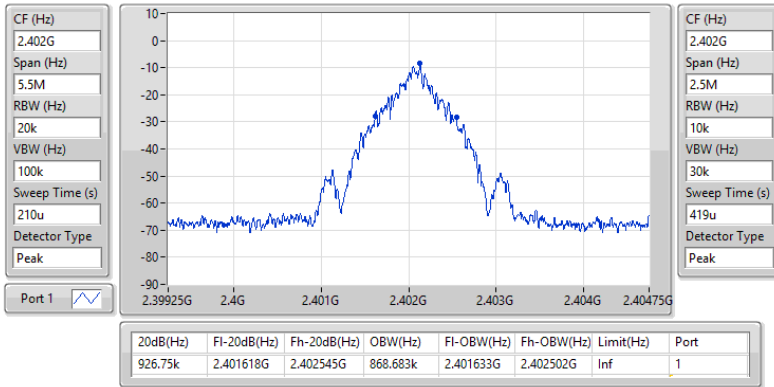
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	926.75k	868.683k
2440MHz	Pass	Inf	869k	854.439k
2480MHz	Pass	Inf	921.25k	836.424k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.375M	1.218M
2440MHz	Pass	Inf	1.323M	1.225M
2480MHz	Pass	Inf	1.312M	1.227M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.367M	1.213M
2440MHz	Pass	Inf	1.37M	1.223M
2480MHz	Pass	Inf	1.328M	1.225M

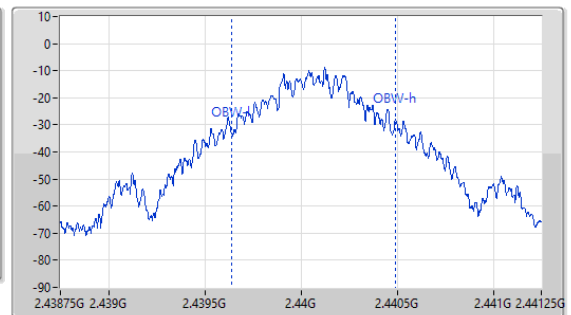
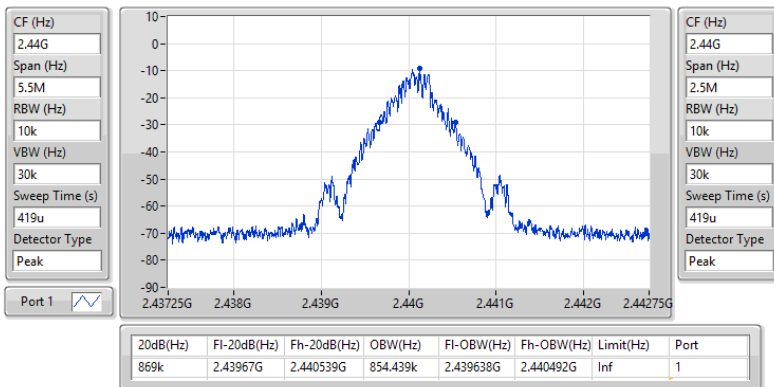
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-BR(1Mbps)
EBW-FS
2402MHz

27/06/2024

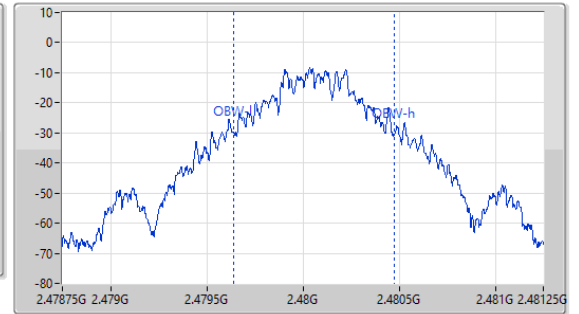
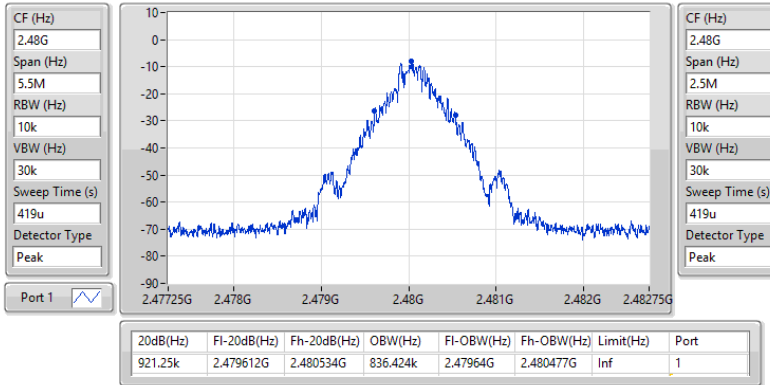

2.4-2.4835GHz_BT-BR(1Mbps)
EBW-FS
2440MHz

27/06/2024

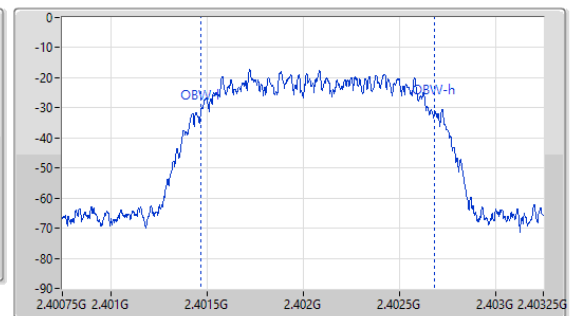
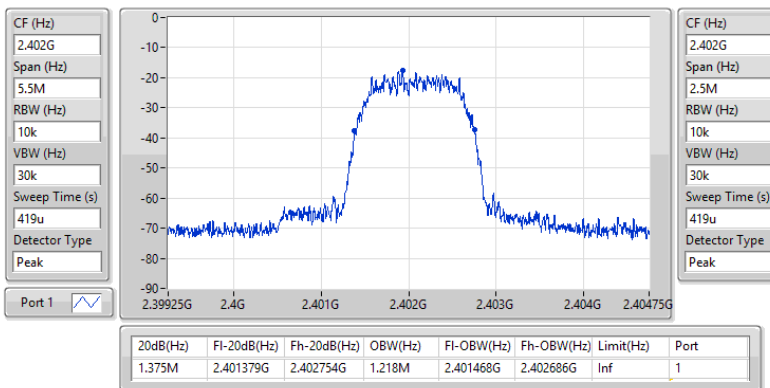


2.4-2.4835GHz_BT-BR(1Mbps)
EBW-FS
2480MHz

27/06/2024

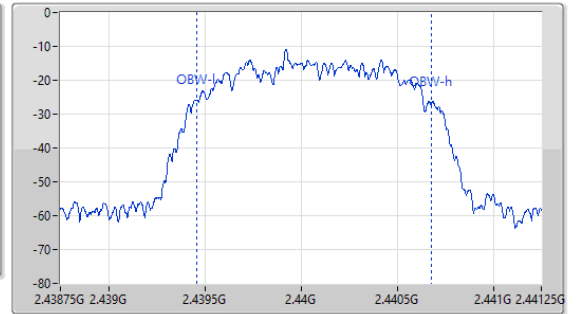
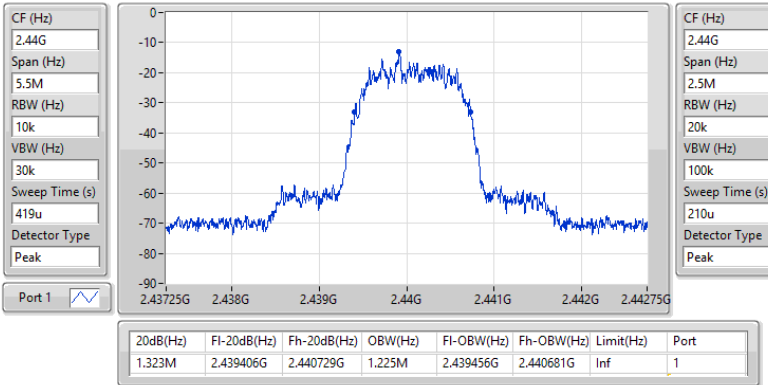

2.4-2.4835GHz_BT-EDR(2Mbps)
EBW-FS
2402MHz

27/06/2024

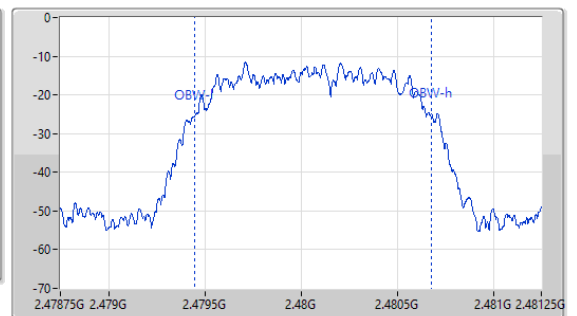
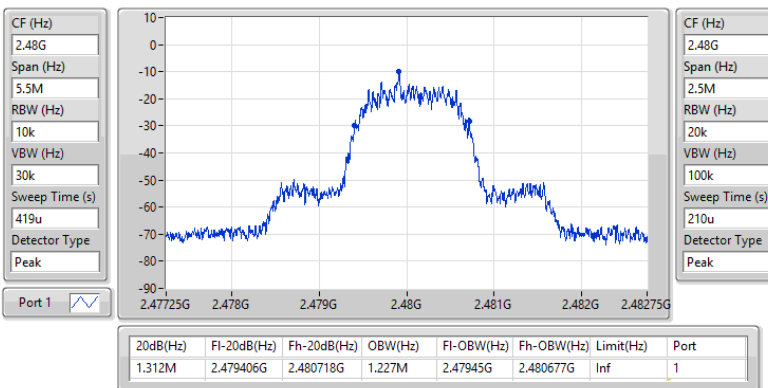


2.4-2.4835GHz_BT-EDR(2Mbps)
EBW-FS
2440MHz

27/06/2024

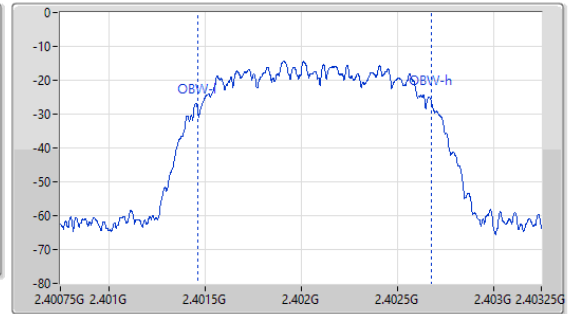
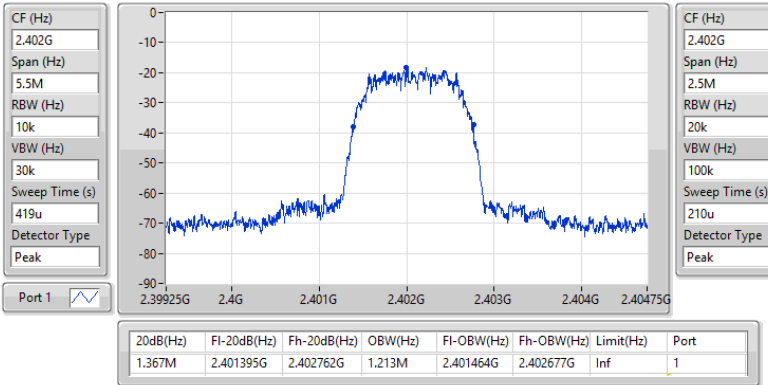

2.4-2.4835GHz_BT-EDR(2Mbps)
EBW-FS
2480MHz

27/06/2024

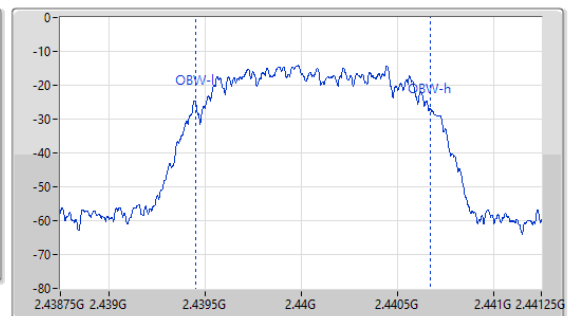
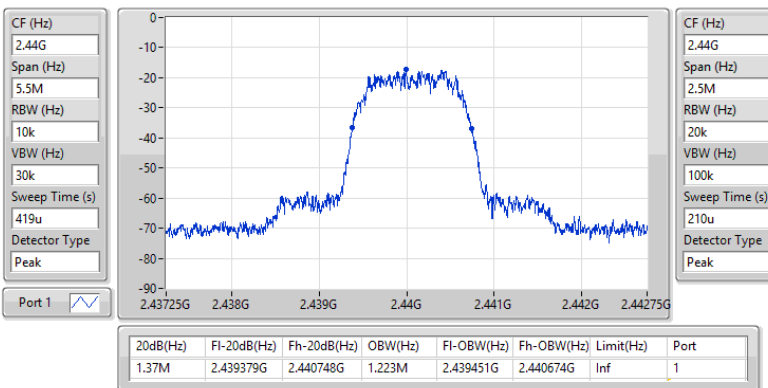


2.4-2.4835GHz_BT-EDR(3Mbps)
EBW-FS
2402MHz

27/06/2024


2.4-2.4835GHz_BT-EDR(3Mbps)
EBW-FS
2440MHz

27/06/2024

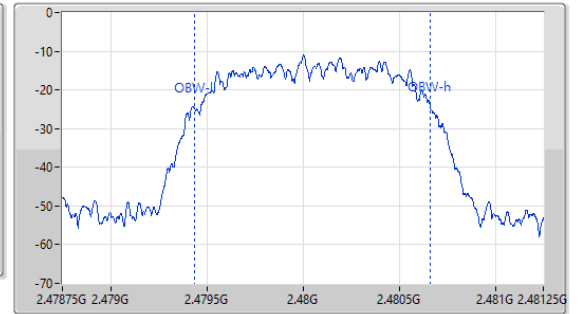
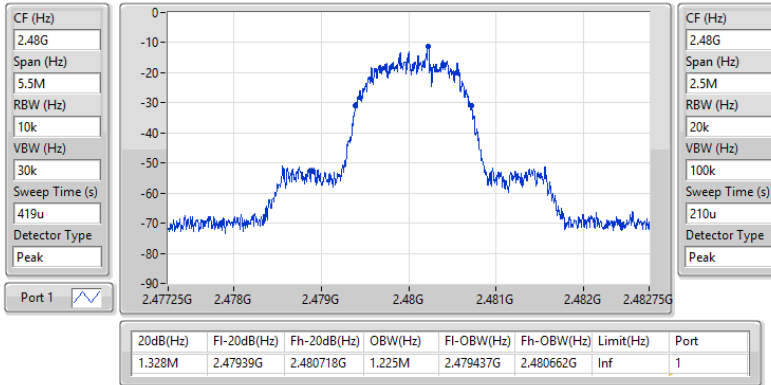


2.4-2.4835GHz_BT-EDR(3Mbps)

EBW-FS

2480MHz

27/06/2024



Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	999k
BT-EDR(3Mbps)	1.0005M	997.5k
BT-EDR(2Mbps)	1.002M	999k

Result

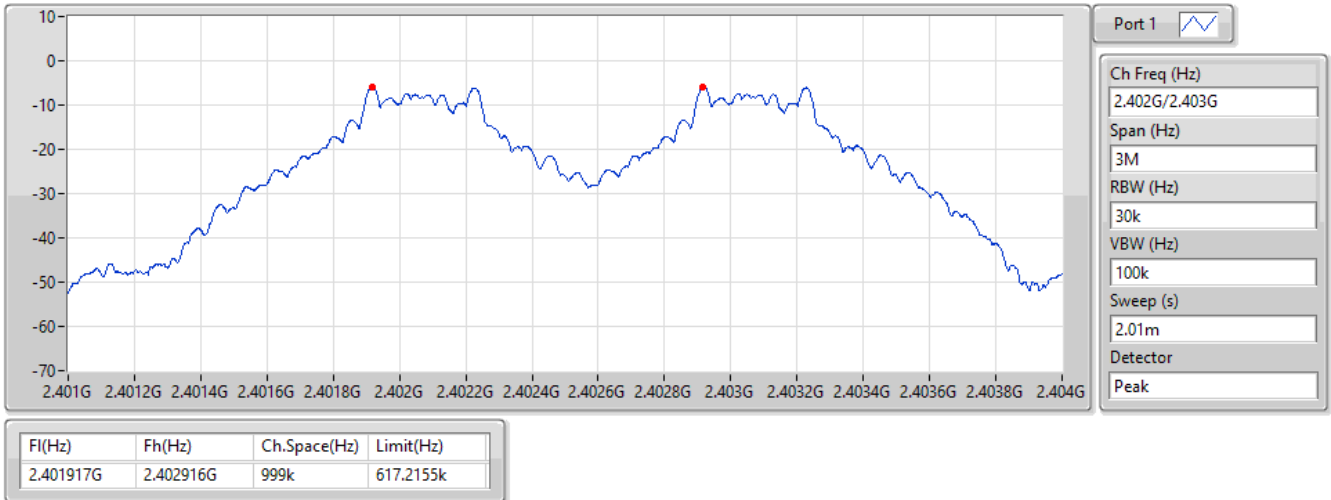
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.401917G	2.402916G	999k	617.2155k
2440MHz	Pass	2.439914G	2.440913G	999k	578.754k
2480MHz	Pass	2.478905G	2.479907G	1.002M	613.5525k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.401918G	2.402917G	999k	915.75k
2440MHz	Pass	2.439912G	2.440913G	1.0005M	881.118k
2480MHz	Pass	2.478906G	2.479908G	1.002M	873.792k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.401918G	2.402916G	997.5k	910.422k
2440MHz	Pass	2.439914G	2.440911G	997.5k	912.42k
2480MHz	Pass	2.478906G	2.479907G	1.0005M	884.448k

2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

27/06/2024



2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

27/06/2024



2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.48G/2.479GHz

27/06/2024

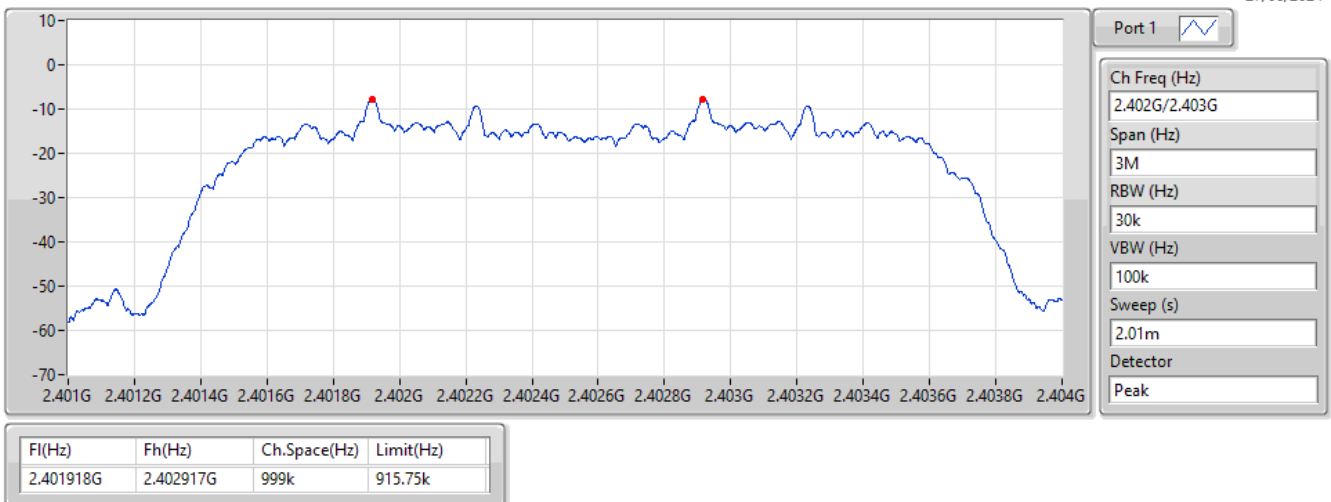


2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.402G/2.403GHz

27/06/2024

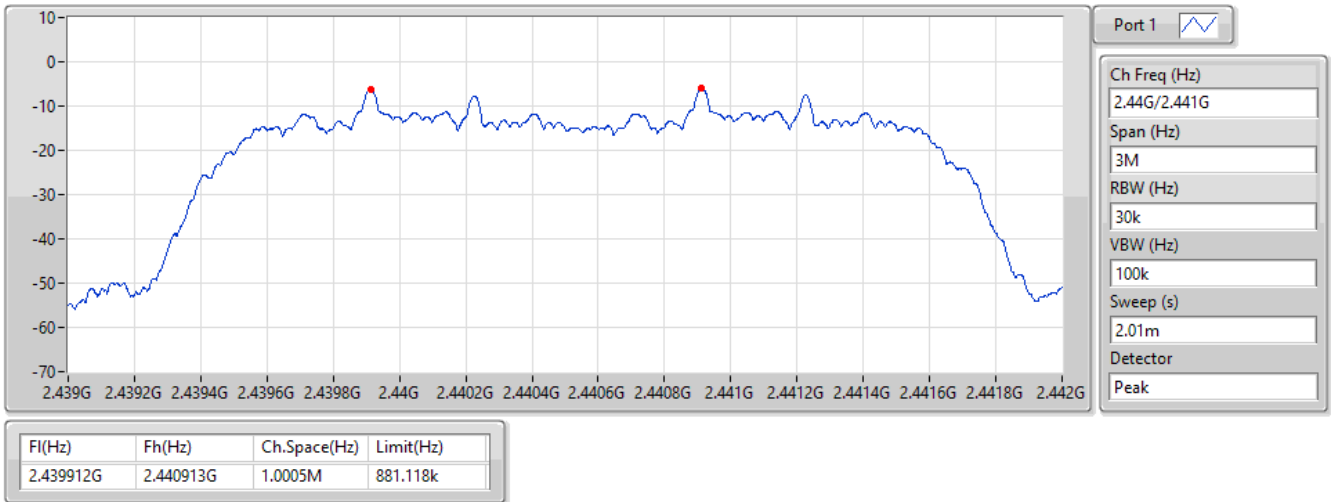


2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.44G/2.441GHz

27/06/2024

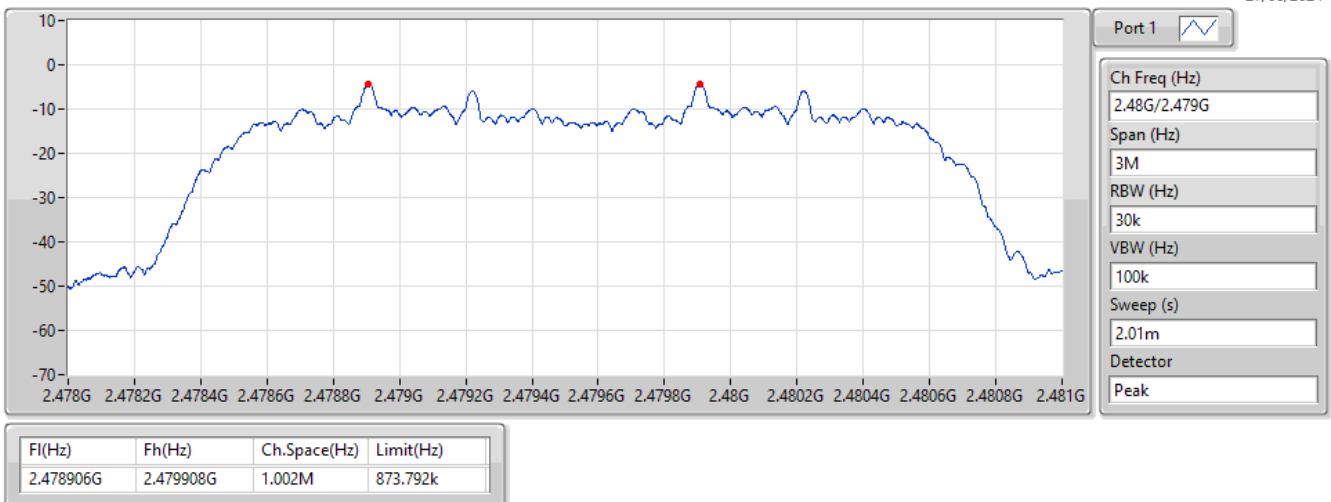


2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.48G/2.479GHz

27/06/2024

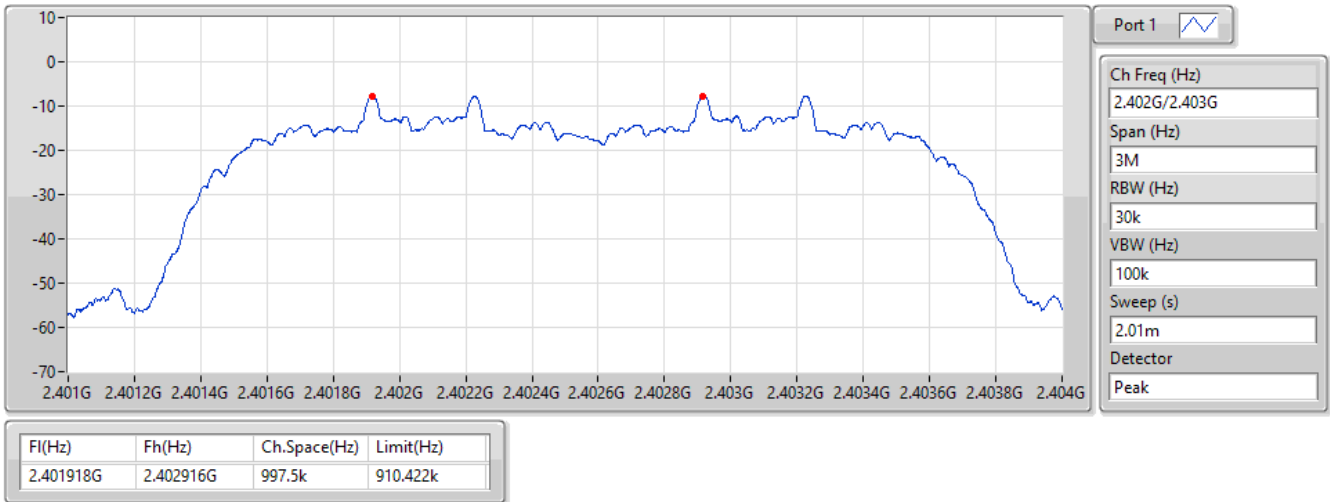


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.402G/2.403GHz

27/06/2024

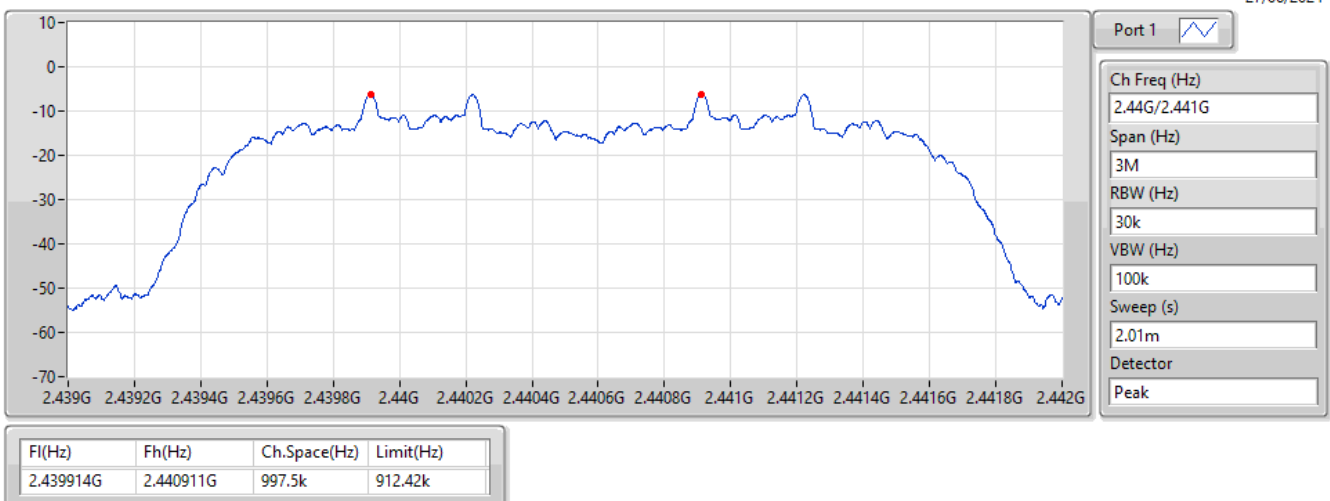


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.44G/2.441GHz

27/06/2024

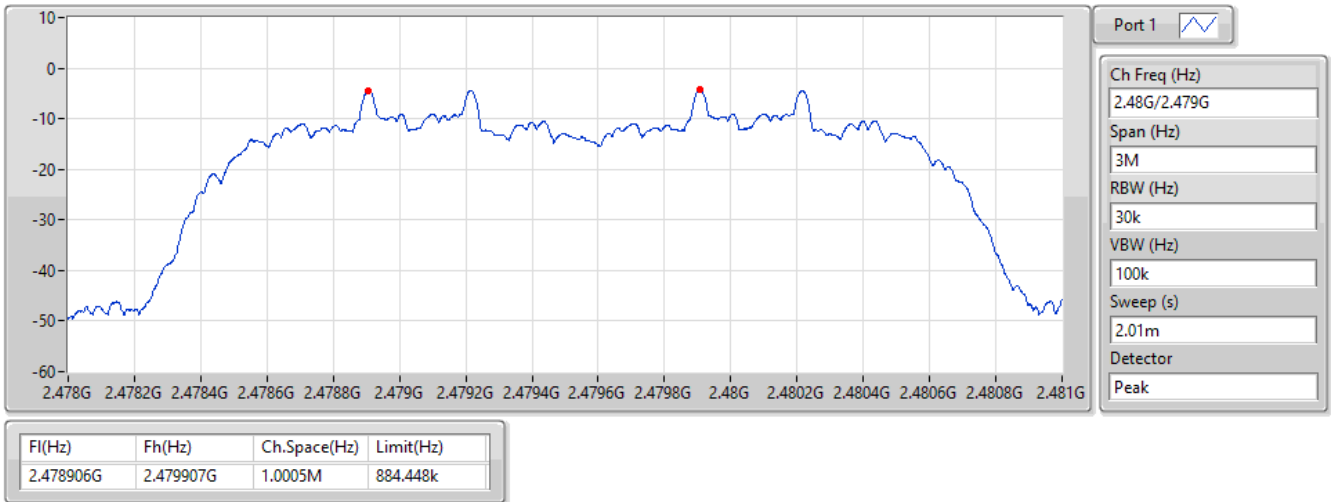


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.48G/2.479GHz

27/06/2024



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	-2.11	0.00062
BT-EDR(3Mbps)	-2.80	0.00052
BT-EDR(2Mbps)	-2.75	0.00053

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.68	-4.53	21.00
2440MHz	Pass	3.68	-3.00	21.00
2480MHz	Pass	3.68	-2.11	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.68	-6.13	21.00
2440MHz	Pass	3.68	-4.58	21.00
2480MHz	Pass	3.68	-2.75	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.68	-6.08	21.00
2440MHz	Pass	3.68	-4.63	21.00
2480MHz	Pass	3.68	-2.80	21.00

DG = Directional Gain; Port X = Port X output power

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	-1.17	0.00076
BT-EDR(3Mbps)	-0.56	0.00088
BT-EDR(2Mbps)	-0.93	0.00081

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.68	-4.27	21.00
2440MHz	Pass	3.68	-2.75	21.00
2480MHz	Pass	3.68	-1.17	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.68	-4.05	21.00
2440MHz	Pass	3.68	-2.55	21.00
2480MHz	Pass	3.68	-0.93	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.68	-3.43	21.00
2440MHz	Pass	3.68	-2.12	21.00
2480MHz	Pass	3.68	-0.56	21.00

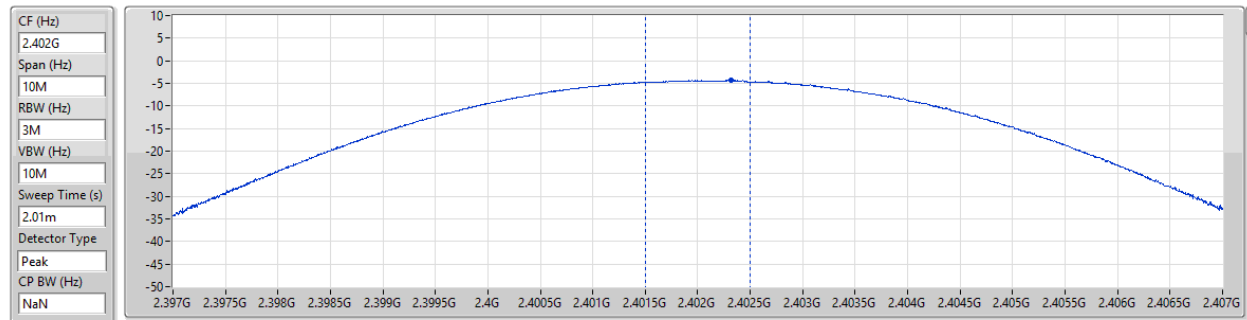
DG = Directional Gain; Port X = Port X output power

2.4-2.4835GHz_BT-BR(1Mbps)

PK Power-FS

2402MHz

27/06/2024

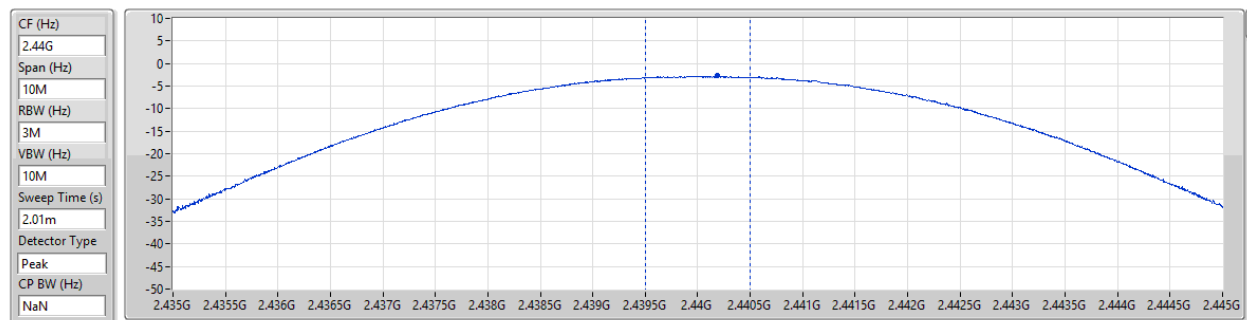


2.4-2.4835GHz_BT-BR(1Mbps)

PK Power-FS

2440MHz

27/06/2024

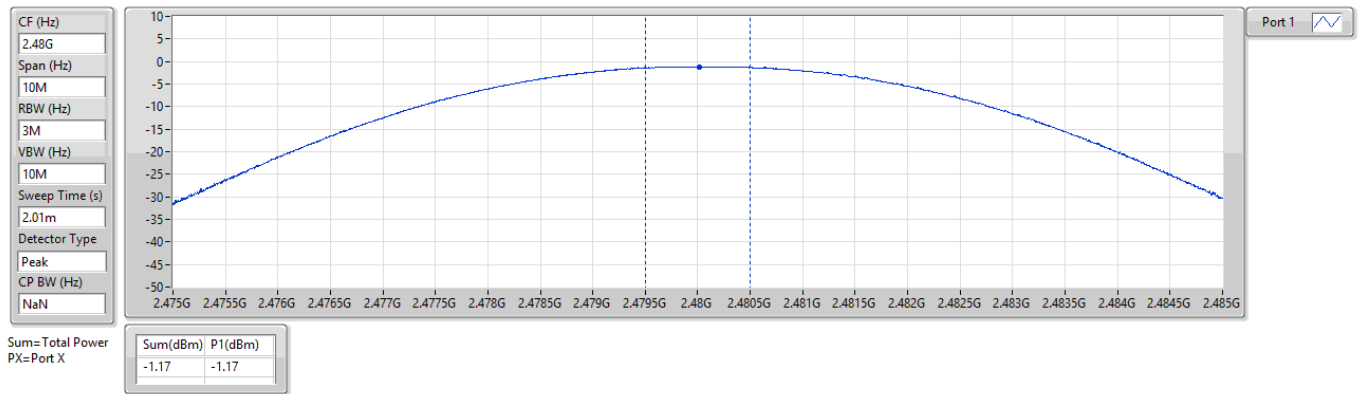


2.4-2.4835GHz_BT-BR(1Mbps)

PK Power-FS

2480MHz

27/06/2024

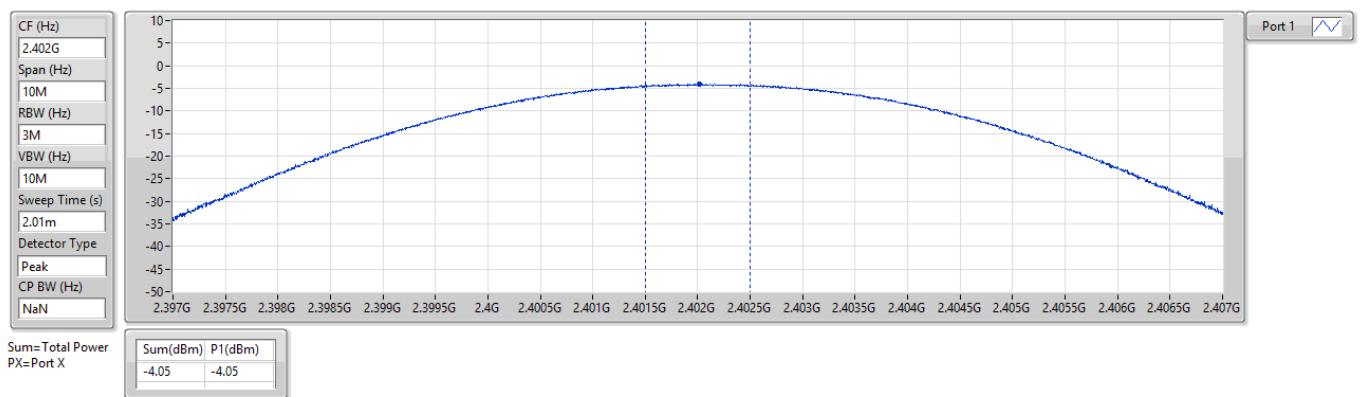


2.4-2.4835GHz_BT-EDR(2Mbps)

PK Power-FS

2402MHz

27/06/2024

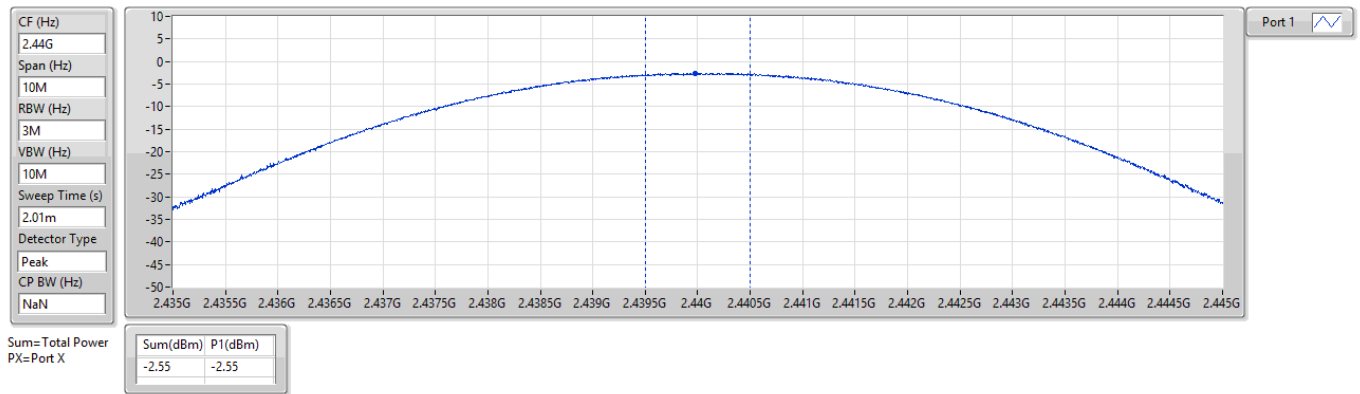


2.4-2.4835GHz_BT-EDR(2Mbps)

PK Power-FS

2440MHz

27/06/2024

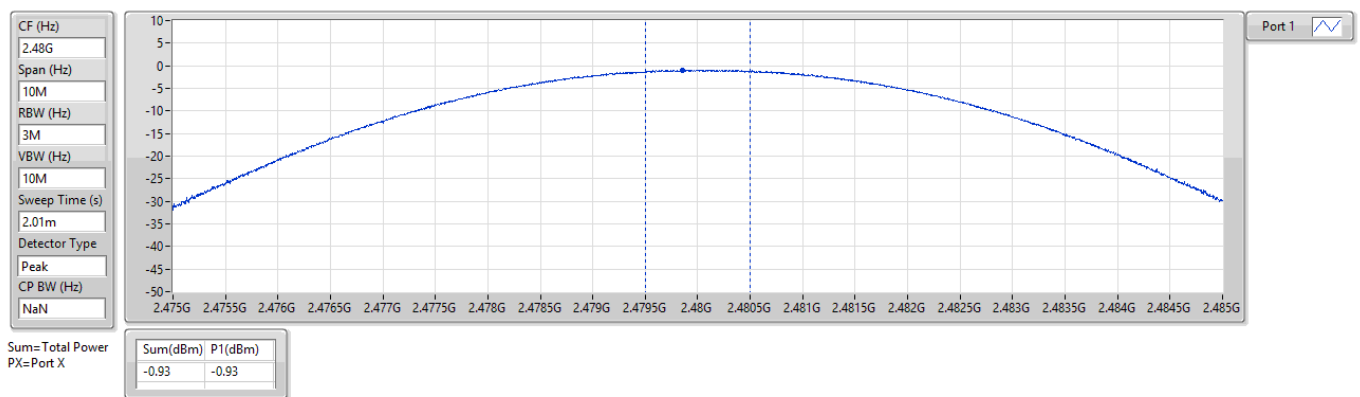


2.4-2.4835GHz_BT-EDR(2Mbps)

PK Power-FS

2480MHz

27/06/2024

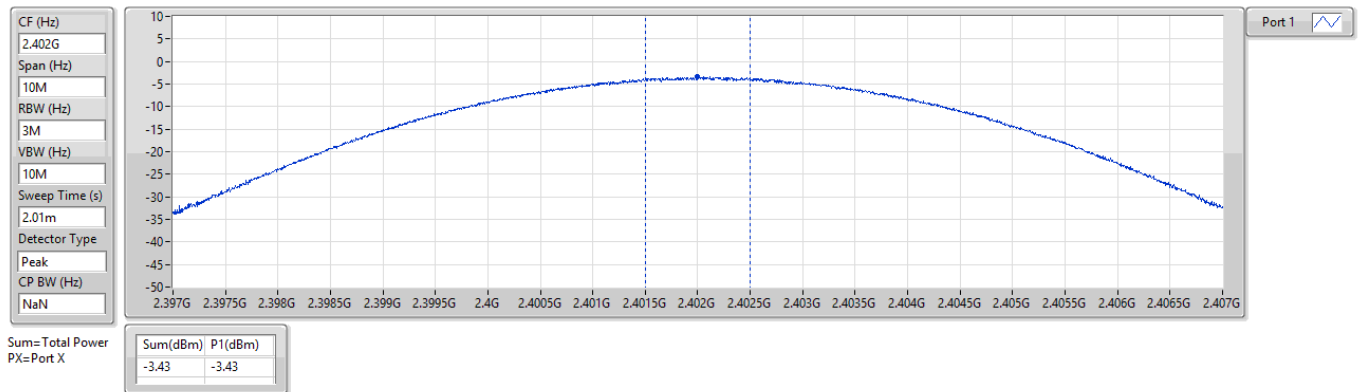


2.4-2.4835GHz_BT-EDR(3Mbps)

PK Power-FS

2402MHz

27/06/2024

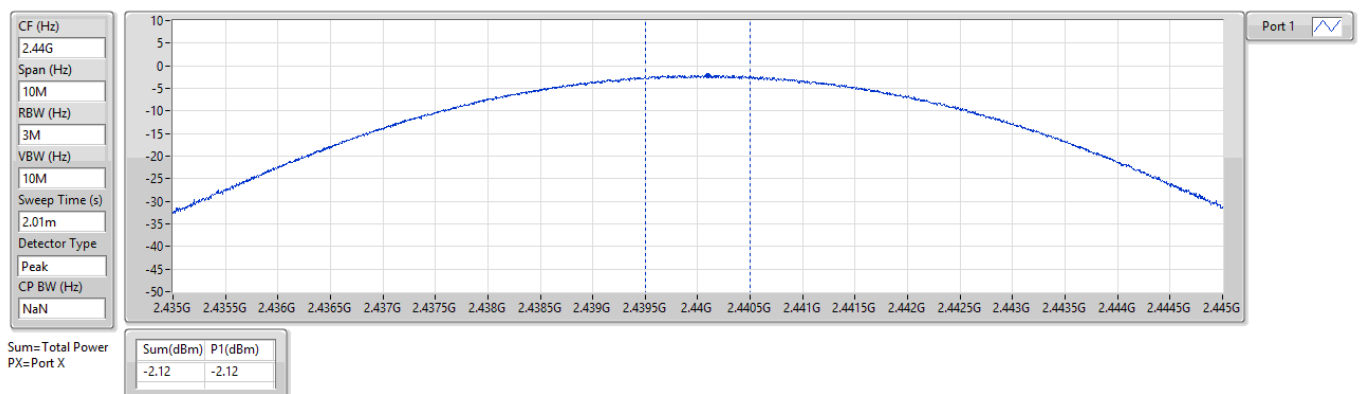


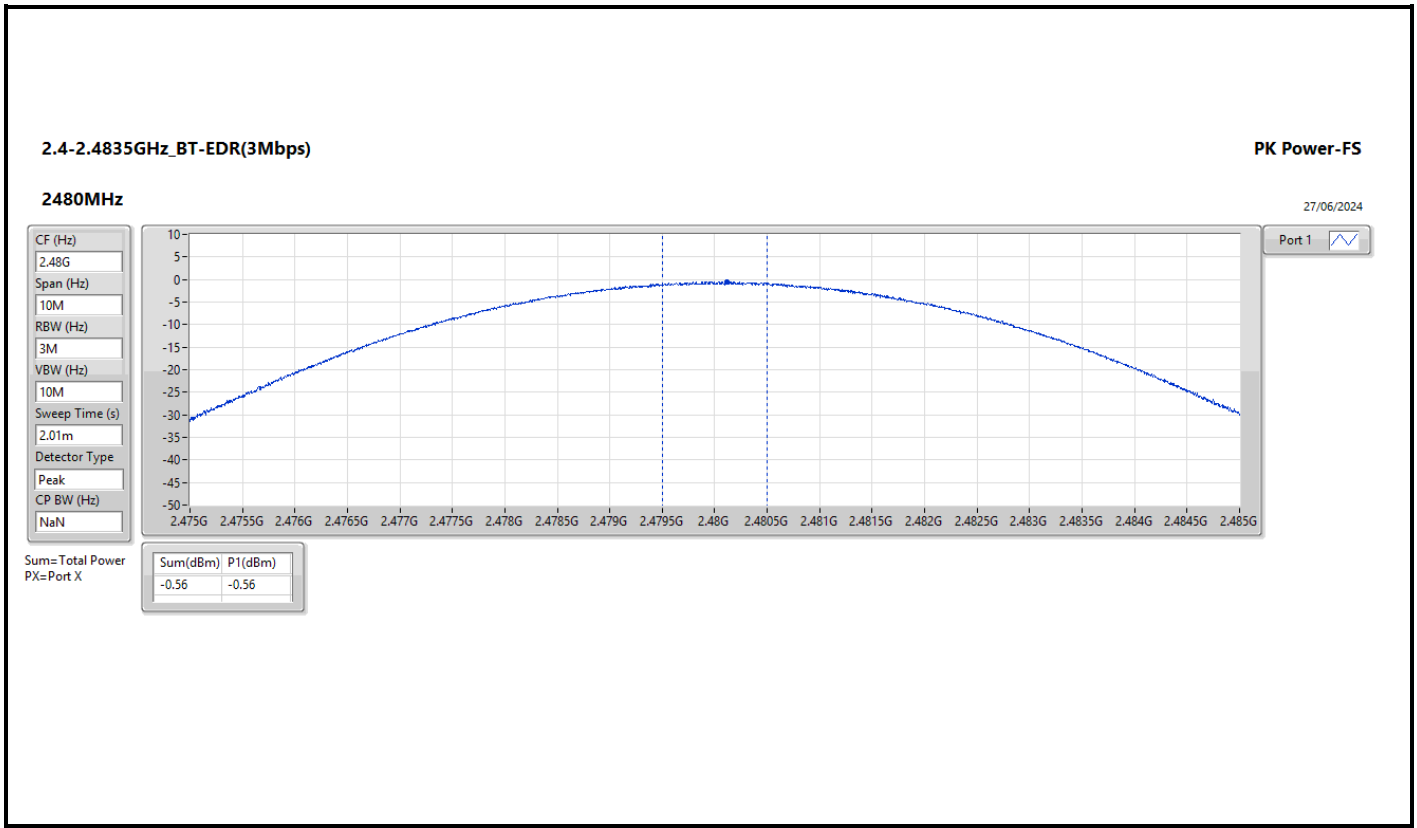
2.4-2.4835GHz_BT-EDR(3Mbps)

PK Power-FS

2440MHz

27/06/2024







Summary

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

Result

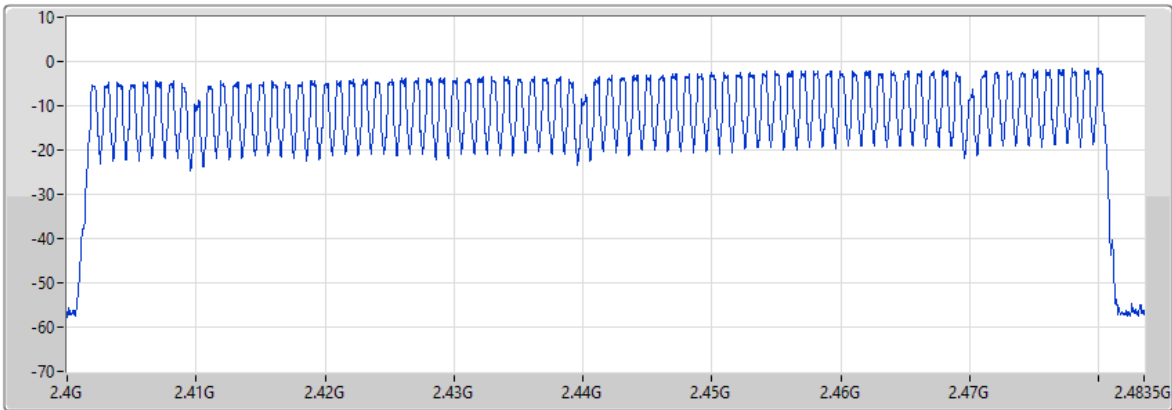
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

2.4-2.4835GHz_BT-BR(1Mbps)

Hopping-FS

2440MHz

27/06/2024



Port 1 

Hopping No
79

Span (Hz)
83.5M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
83.7us

Detector
Peak

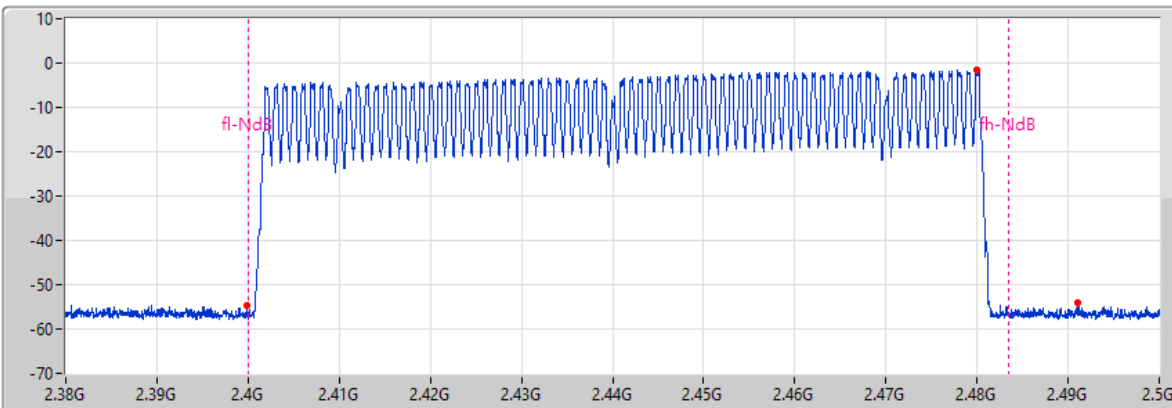
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

27/06/2024



Port 1 

Span (Hz)
120M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
83.7u

Detector
Peak

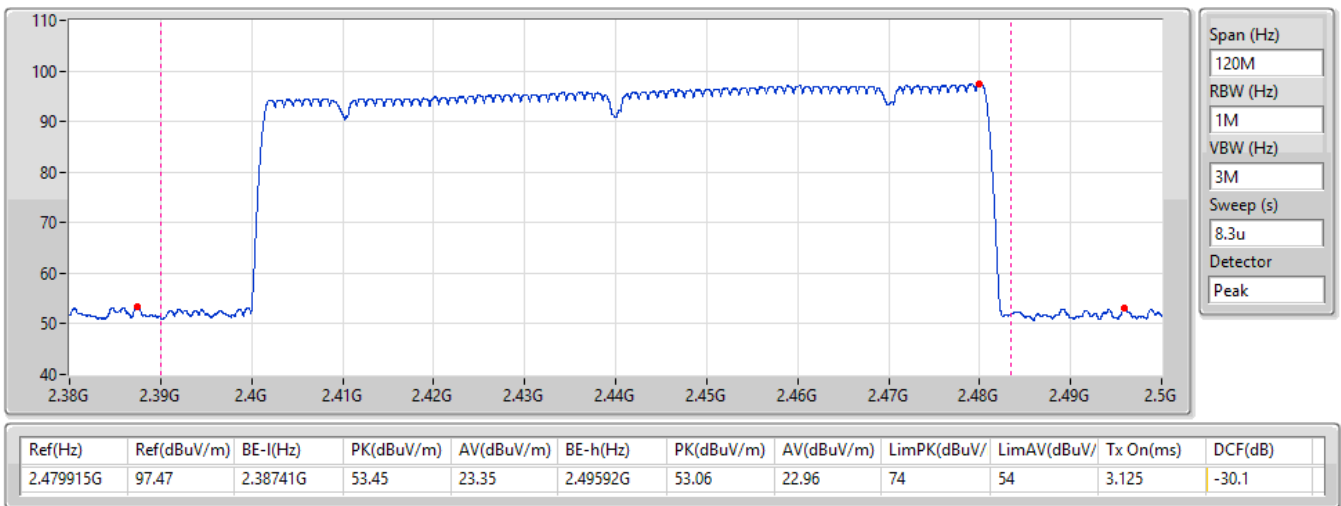
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-21.49	2.479915G	-1.49	2.399875G	-54.55	2.49112G	-54.13

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

27/06/2024

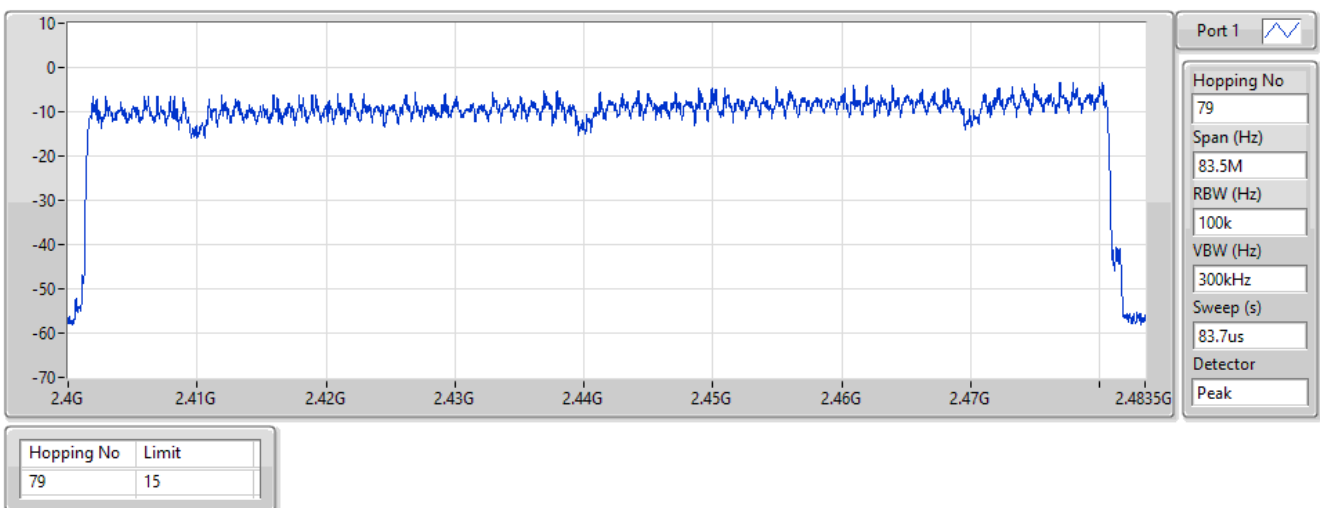


2.4-2.4835GHz_BT-EDR(2Mbps)

Hopping-FS

2440MHz

27/06/2024

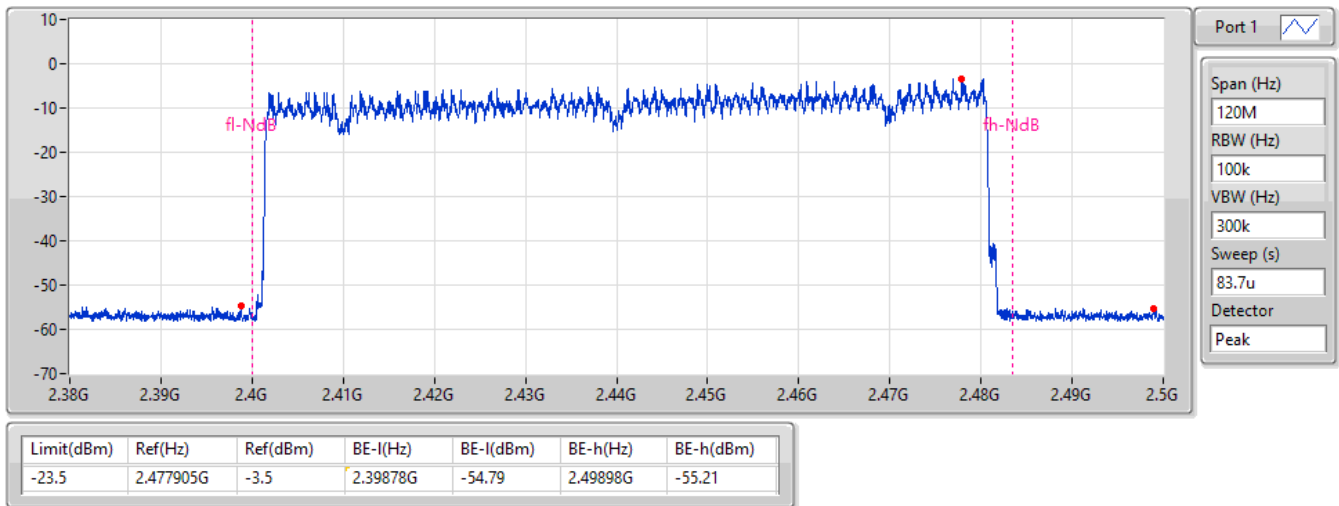


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

27/06/2024

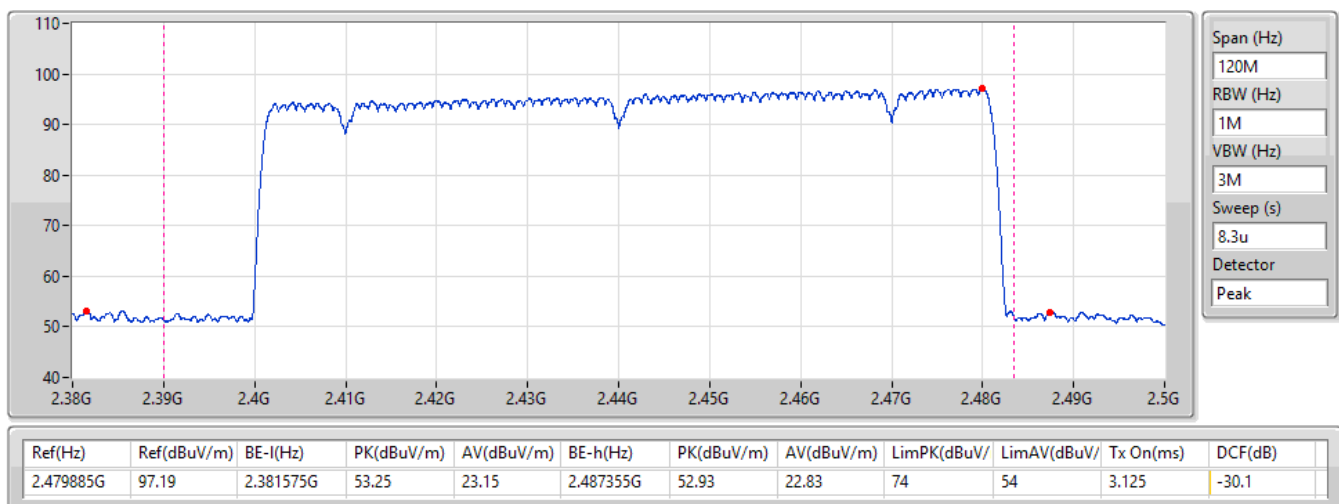


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

27/06/2024

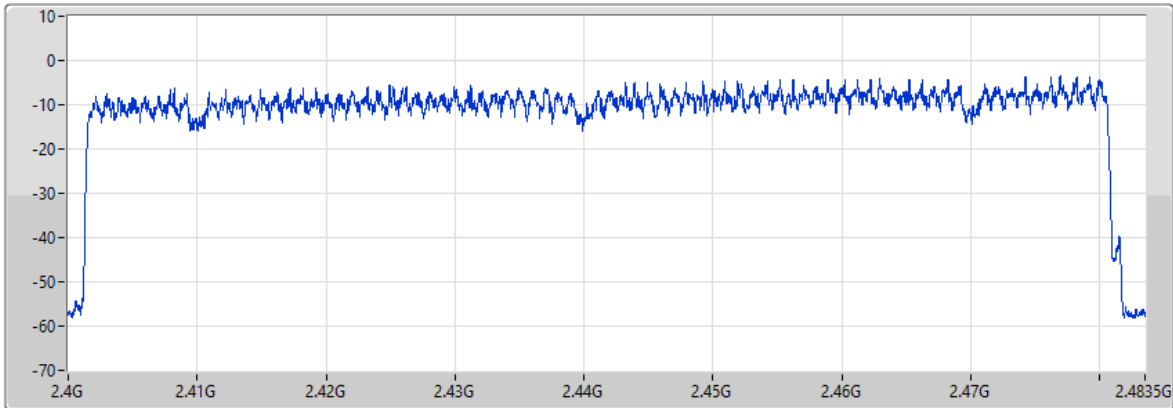


2.4-2.4835GHz_BT-EDR(3Mbps)

Hopping-FS

2440MHz

27/06/2024



Port 1 

Hopping No
79

Span (Hz)
83.5M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
83.7us

Detector
Peak

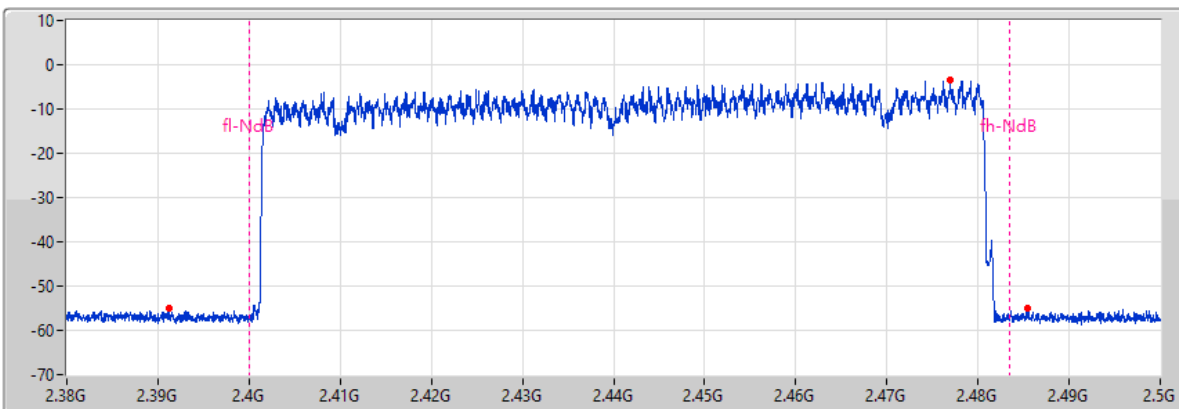
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

27/06/2024



Port 1 

Span (Hz)
120M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
83.7u

Detector
Peak

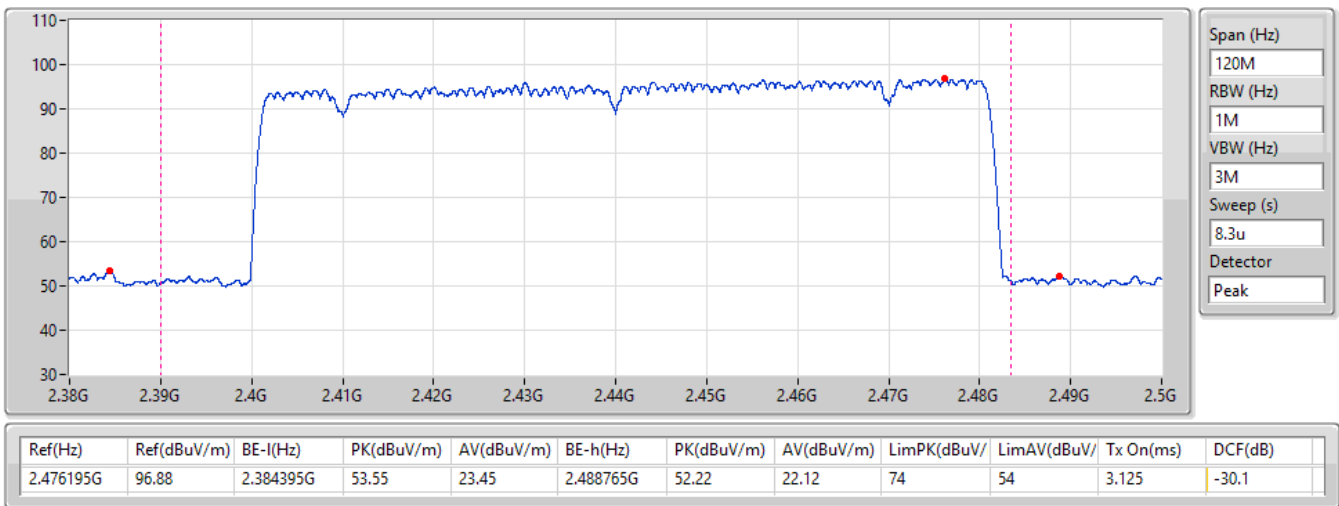
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-23.54	2.476915G	-3.54	2.39116G	-55.13	2.485495G	-55.12

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

27/06/2024





Summary

2.4-2.4835GHz	-
BT-BR(1Mbps)	306.5816m_DH5
BT-EDR(3Mbps)	112.59625m_DH5
BT-EDR(2Mbps)	96.12655m_DH5

Result

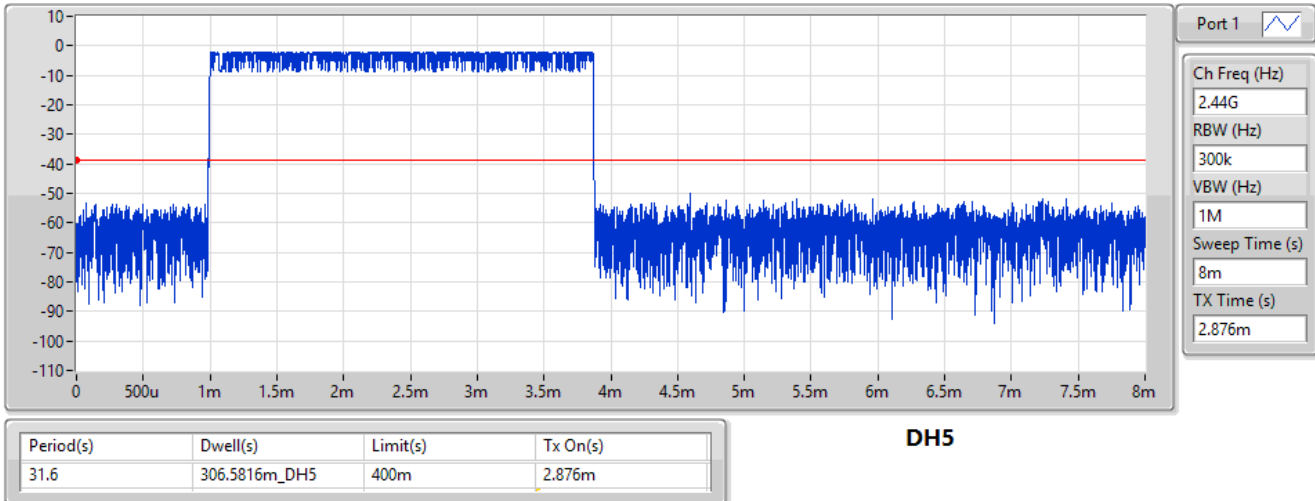
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	306.5816m_DH5	400m	2.876m
2440MHz	Pass	8	153.2908m_DH5-AFH	400m	2.876m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	96.12655m_DH5	400m	901.75u
2440MHz	Pass	8	27.222975m_DH5-AFH	400m	510.75u
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	112.59625m_DH5	400m	1.05625m
2440MHz	Pass	8	46.384325m_DH5-AFH	400m	870.25u

2.4-2.4835GHz_BT-BR(1Mbps)

Dwell-FS

2440MHz

27/06/2024

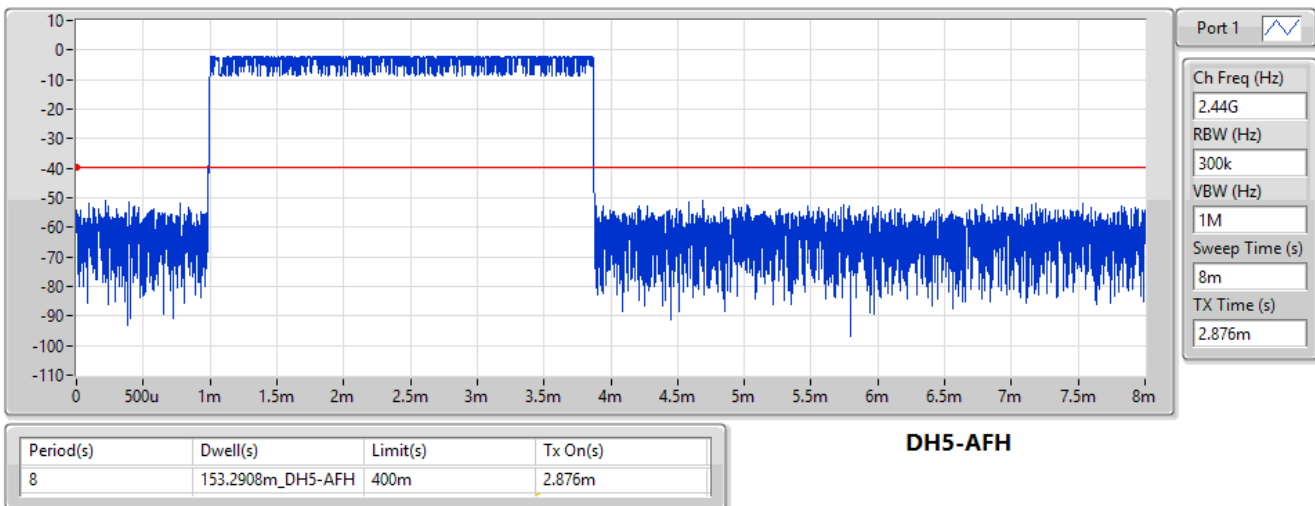


2.4-2.4835GHz_BT-BR(1Mbps)

Dwell-FS

2440MHz

27/06/2024

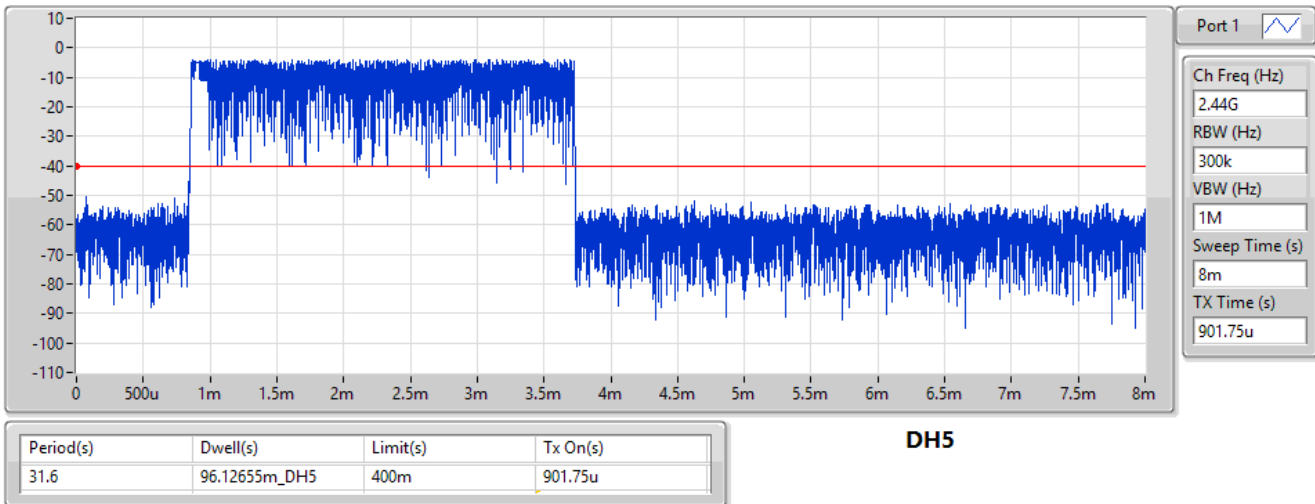


2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

27/06/2024

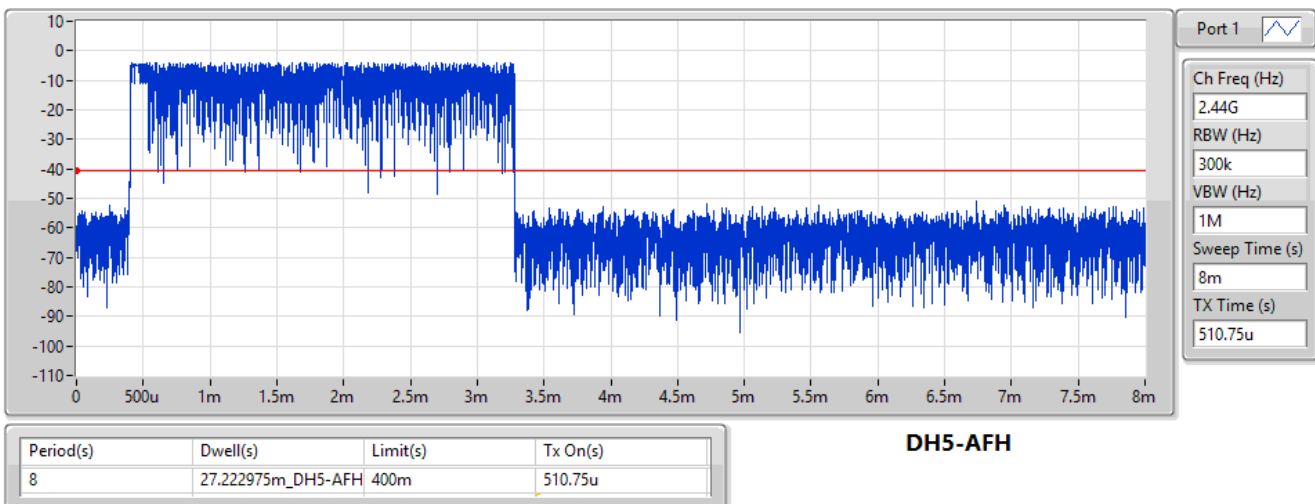


2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

27/06/2024

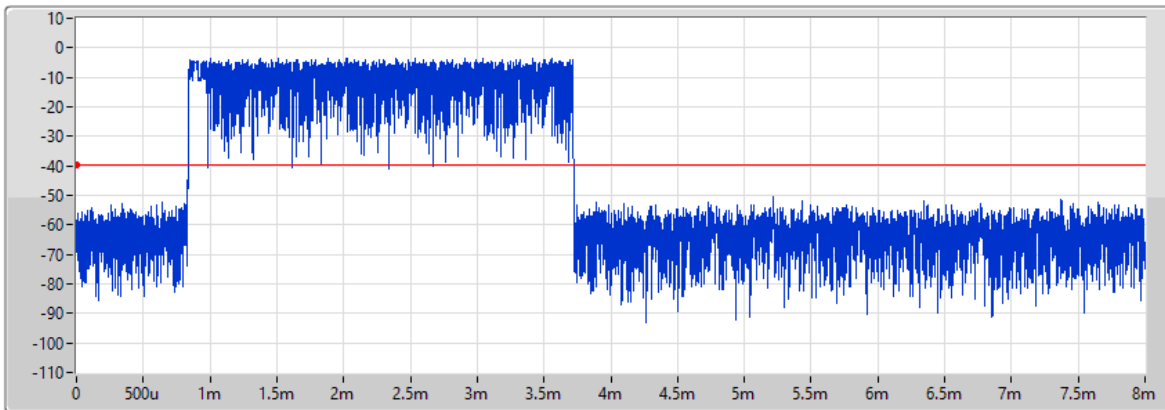


2.4-2.4835GHz_BT-EDR(3Mbps)

Dwell-FS

2440MHz

27/06/2024



DH5

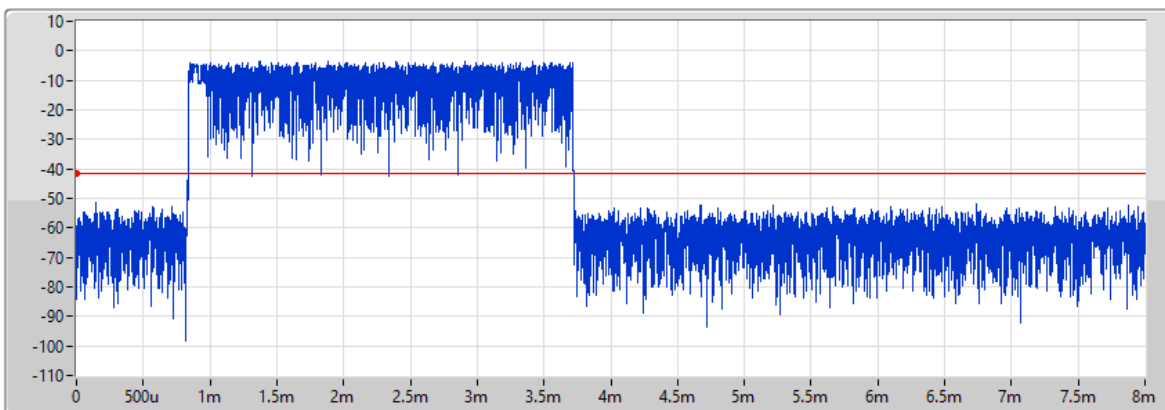
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	112.59625m_DH5	400m	1.05625m

2.4-2.4835GHz_BT-EDR(3Mbps)

Dwell-FS

2440MHz

27/06/2024



DH5-AFH

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	46.384325m_DH5-AFH	400m	870.25u

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.40184G	-5.45	-25.45	2.04865G	-55.20	2.39236G	-52.66	2.4G	-57.33	2.50266G	-53.04	21.89267G	-46.49	1
BT-EDR(3Mbps)	Pass	2.40184G	-7.47	-27.47	1.98168G	-55.57	2.39984G	-51.51	2.4G	-57.41	2.50086G	-52.45	21.67614G	-49.12	1
BT-EDR(2Mbps)	Pass	2.402G	-7.57	-27.57	2.1685G	-55.09	2.39296G	-52.46	2.4G	-56.77	2.5007G	-52.86	21.90954G	-47.86	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	-5.45	-25.45	2.04865G	-55.20	2.39236G	-52.66	2.4G	-57.33	2.50266G	-53.04	21.89267G	-46.49	1
2440MHz	Pass	2.44025G	-3.31	-23.31	2.11915G	-55.05	2.39544G	-52.70	2.4G	-57.94	2.50326G	-52.88	21.95172G	-48.35	1
2480MHz	Pass	2.47999G	-2.01	-22.01	2.12855G	-54.59	2.39188G	-51.77	2.4G	-58.75	2.50342G	-52.91	21.88142G	-48.29	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	-7.57	-27.57	2.1685G	-55.09	2.39296G	-52.46	2.4G	-56.77	2.5007G	-52.86	21.90954G	-47.86	1
2440MHz	Pass	2.44025G	-5.22	-25.22	2.17085G	-55.64	2.39284G	-52.61	2.4G	-57.45	2.5031G	-53.24	21.68458G	-47.30	1
2480MHz	Pass	2.48033G	-3.77	-23.77	2.30245G	-55.16	2.39508G	-52.01	2.4G	-57.45	2.5009G	-51.40	21.96016G	-47.06	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	-7.47	-27.47	1.98168G	-55.57	2.39984G	-51.51	2.4G	-57.41	2.50086G	-52.45	21.67614G	-49.12	1
2440MHz	Pass	2.44008G	-5.89	-25.89	2.18495G	-55.14	2.39568G	-52.20	2.4G	-56.07	2.50282G	-52.44	21.63677G	-48.60	1
2480MHz	Pass	2.47999G	-3.34	-23.34	61.73M	-54.94	2.39788G	-52.92	2.4G	-57.39	2.50254G	-52.18	21.76613G	-48.48	1

2.4-2.4835GHz_BT-BR(1Mbps)

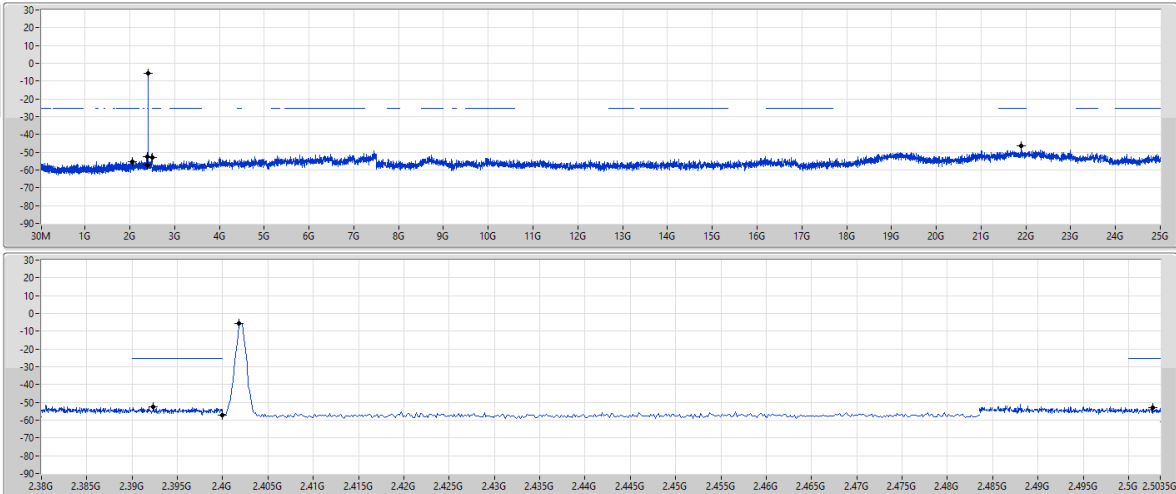
CSENdB-FS

2402MHz

27/06/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	-5.45	-25.45	2.04865G	-55.20	2.39236G	-52.66	2.4G	-57.33	2.50266G	-53.04	21.89267G	-46.49	1

2.4-2.4835GHz_BT-BR(1Mbps)

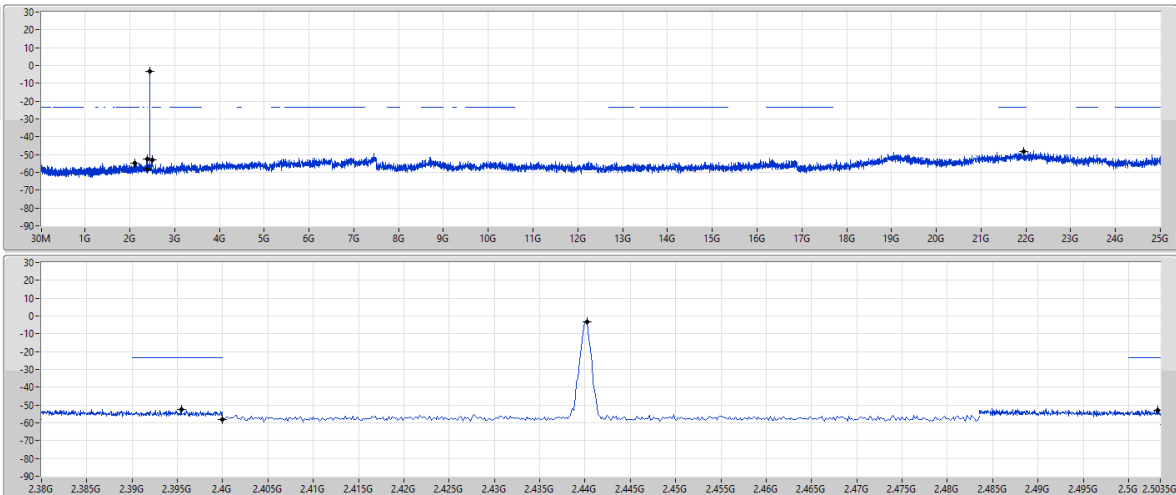
CSENdB-FS

2440MHz

27/06/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1

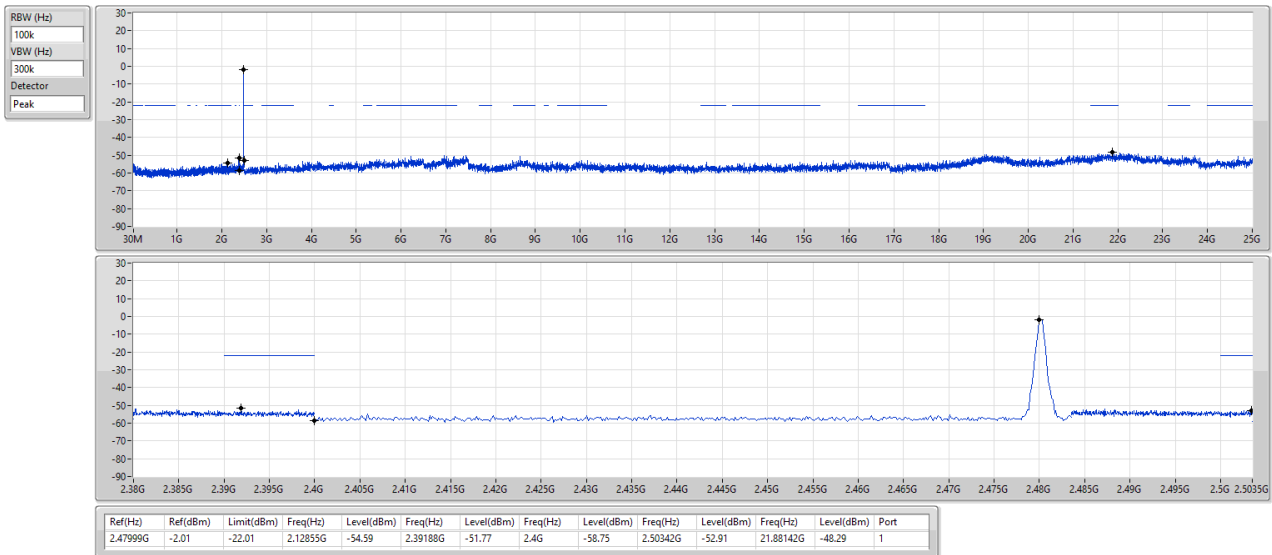


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44025G	-3.31	-23.31	2.11915G	-55.05	2.39544G	-52.70	2.4G	-57.94	2.50326G	-52.88	21.95172G	-48.35	1

2.4-2.4835GHz_BT-BR(1Mbps)

CSEndB-FS

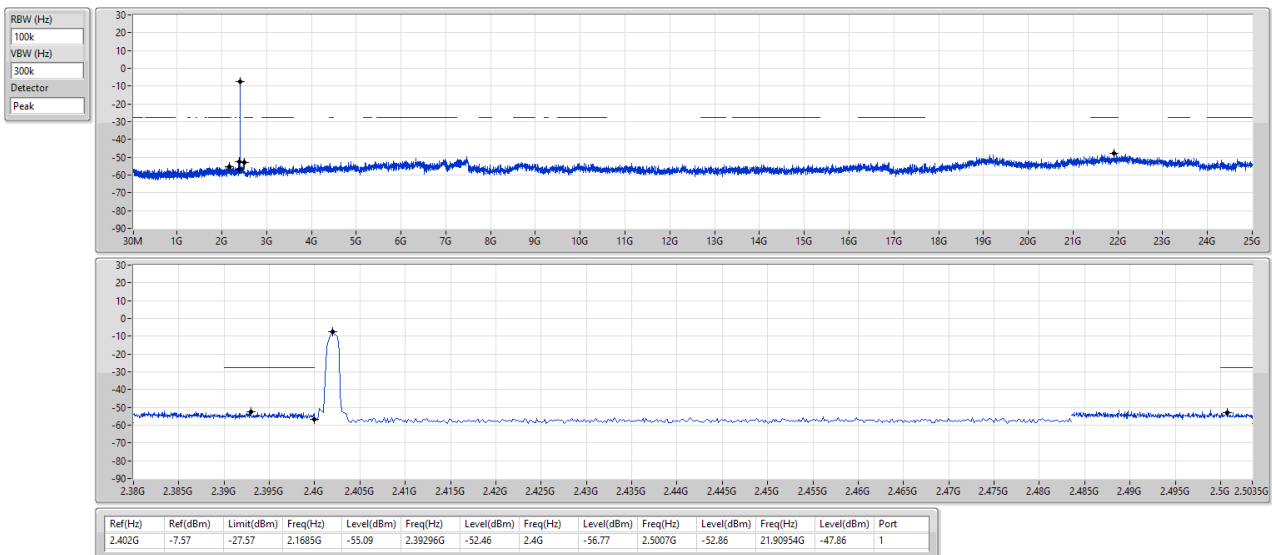
2480MHz



2.4-2.4835GHz_BT-EDR(2Mbps)

CSEndB-FS

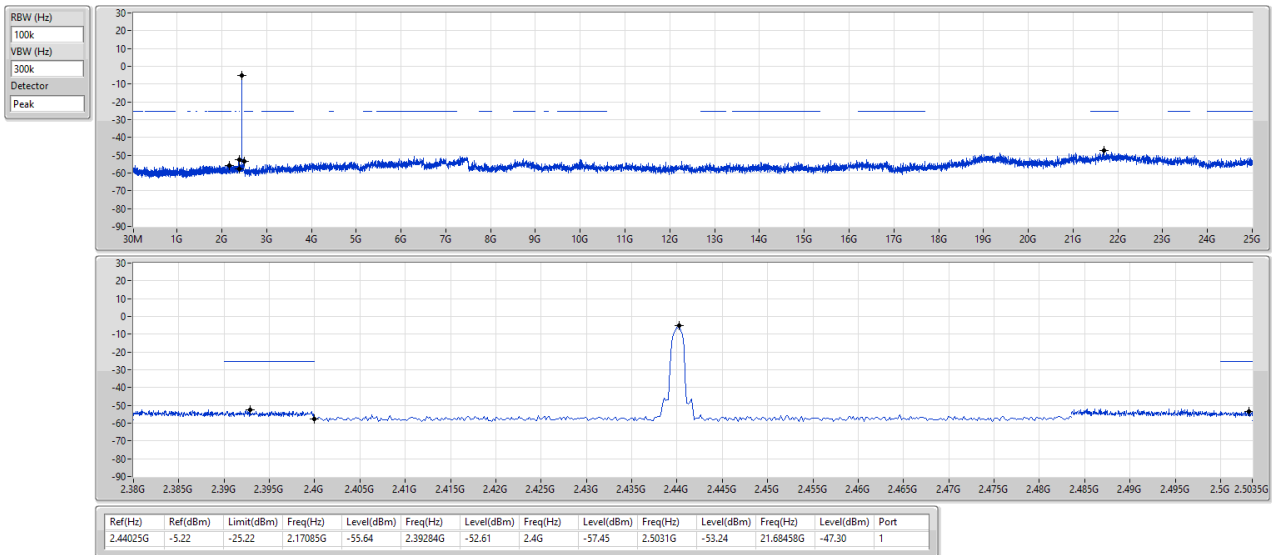
2402MHz



2.4-2.4835GHz_BT-EDR(2Mbps)

CSEndB-FS

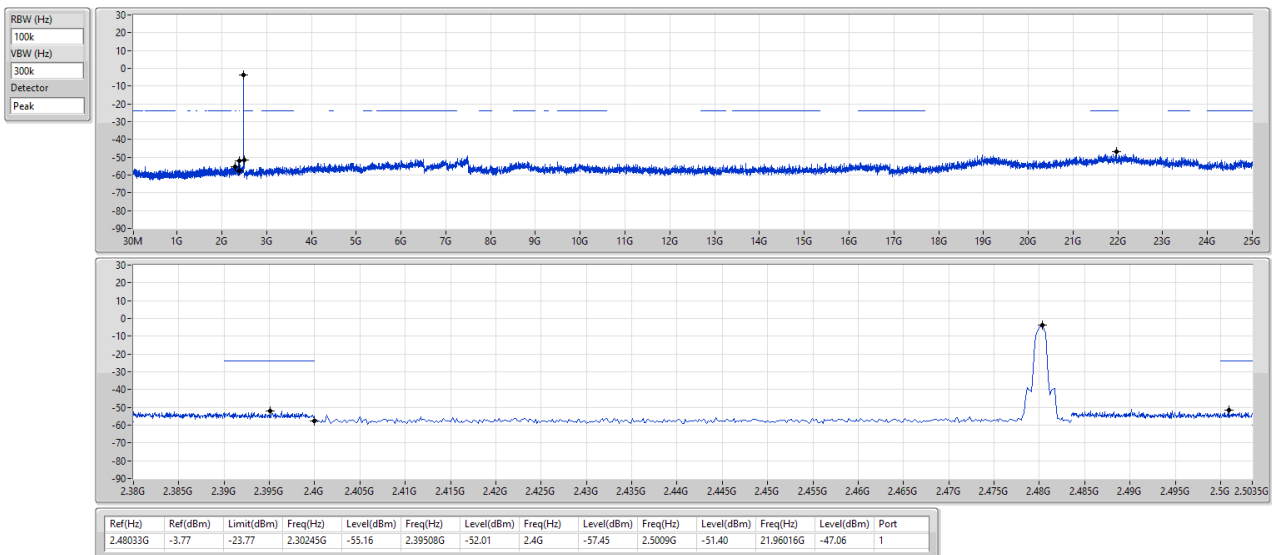
2440MHz



2.4-2.4835GHz_BT-EDR(2Mbps)

CSEndB-FS

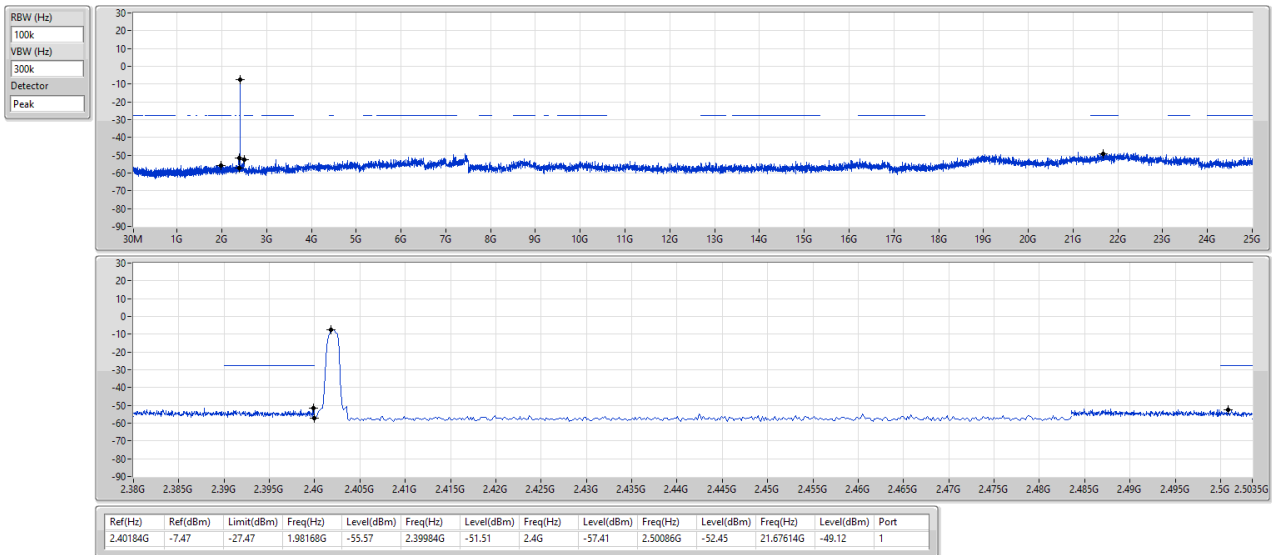
2480MHz



2.4-2.4835GHz_BT-EDR(3Mbps)

CSEndB-FS

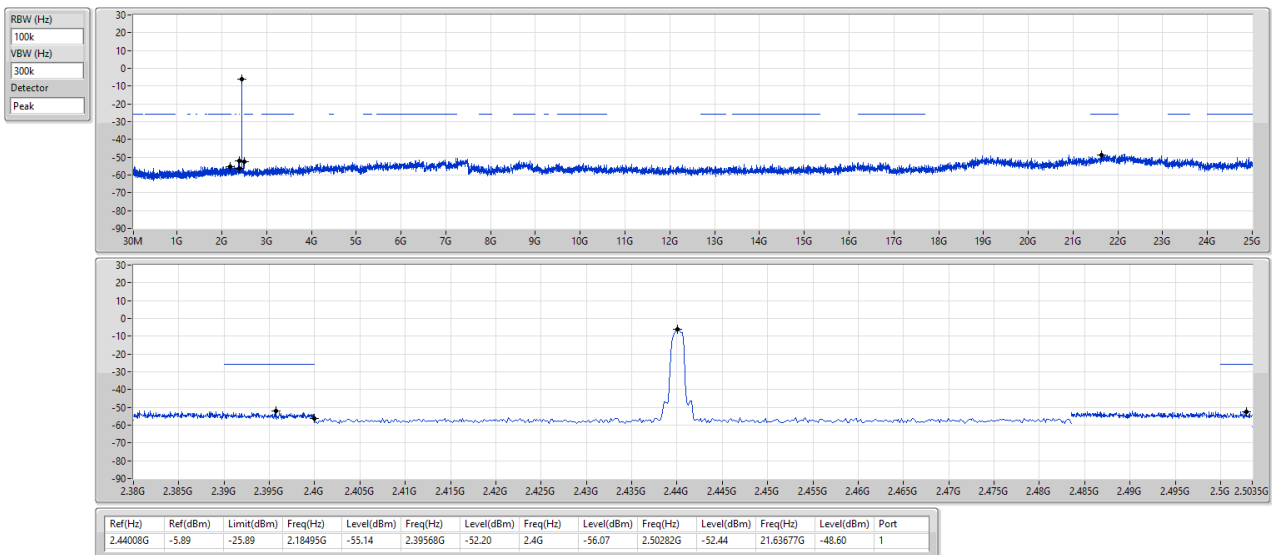
2402MHz



2.4-2.4835GHz_BT-EDR(3Mbps)

CSEndB-FS

2440MHz

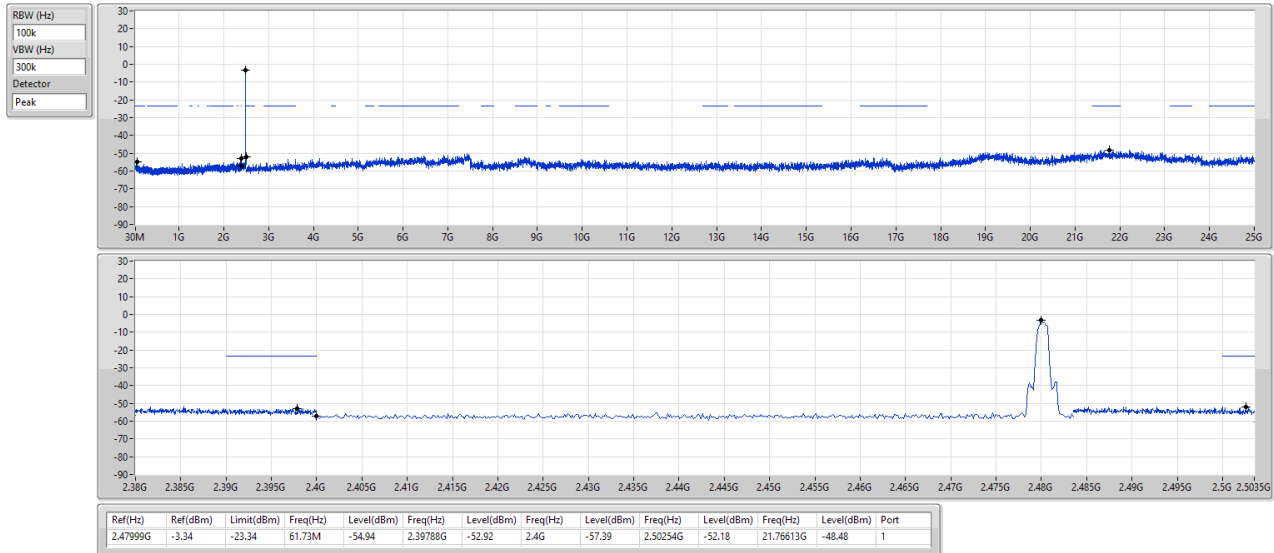


2.4-2.4835GHz_BT-EDR(3Mbps)

CSEndB-FS

2480MHz

27/06/2024





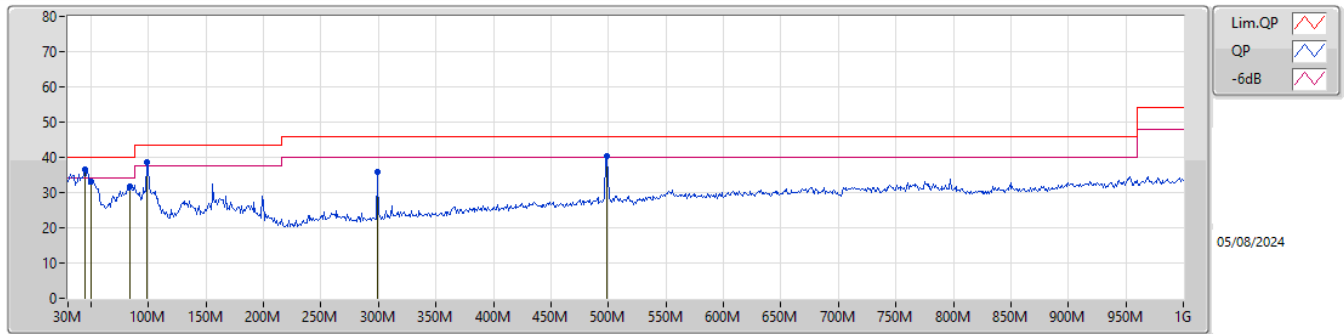
Radiated Emissions below 1GHz

Appendix G.1

Summary

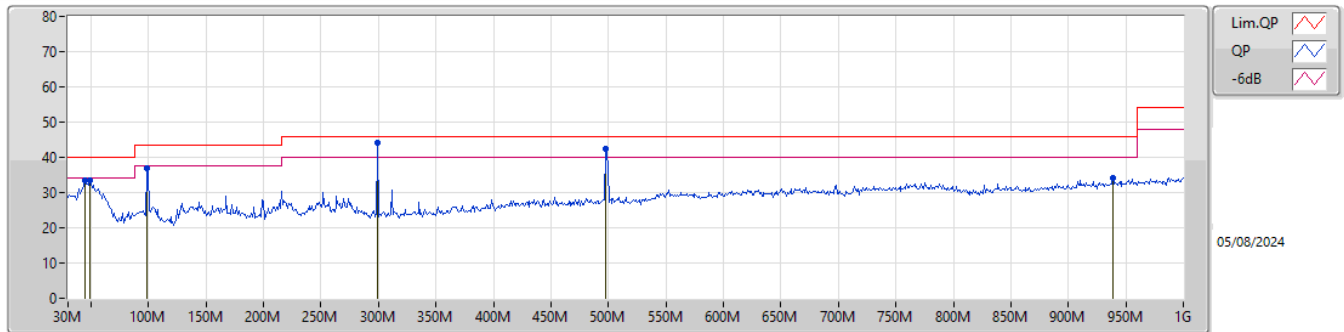
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	299.66M	44.13	46.00	-1.87	Horizontal

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	44.55M	36.63	40.00	-3.37	-14.56	3	Vertical	98	1.00	"Worst"	51.19	16.50	1.30	32.36		
PK	50.37M	33.05	40.00	-6.95	-17.04	3	Vertical	81	1.00	-	50.09	13.97	1.32	32.33		
PK	84.32M	31.89	40.00	-8.11	-17.24	3	Vertical	73	1.00	-	49.13	13.55	1.59	32.38		
PK	98.87M	38.53	43.50	-4.97	-14.24	3	Vertical	181	1.00	-	52.77	16.45	1.67	32.36		
PK	298.69M	35.71	46.00	-10.29	-10.36	3	Vertical	165	1.50	-	46.07	19.01	2.59	31.96		
PK	498.51M	40.29	46.00	-5.71	-5.54	3	Vertical	198	1.25	-	45.83	23.24	3.25	32.03		

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	44.55M	33.39	40.00	-6.61	-14.56	3	Horizontal	3	1.25	-	47.95	16.50	1.30	32.36		
PK	49.4M	33.51	40.00	-6.49	-16.67	3	Horizontal	340	1.50	-	50.18	14.34	1.32	32.33		
PK	98.87M	37.00	43.50	-6.50	-14.24	3	Horizontal	9	3.00	-	51.24	16.45	1.67	32.36		
QP	299.66M	44.13	46.00	-1.87	-10.34	3	Horizontal	212	1.25	"Worst"	54.47	19.02	2.59	31.95		
PK	497.54M	42.41	46.00	-3.59	-5.57	3	Horizontal	318	1.00	-	47.98	23.22	3.24	32.03		
PK	938.89M	34.17	46.00	-11.83	0.10	3	Horizontal	358	3.00	-	34.07	26.42	4.37	30.69		

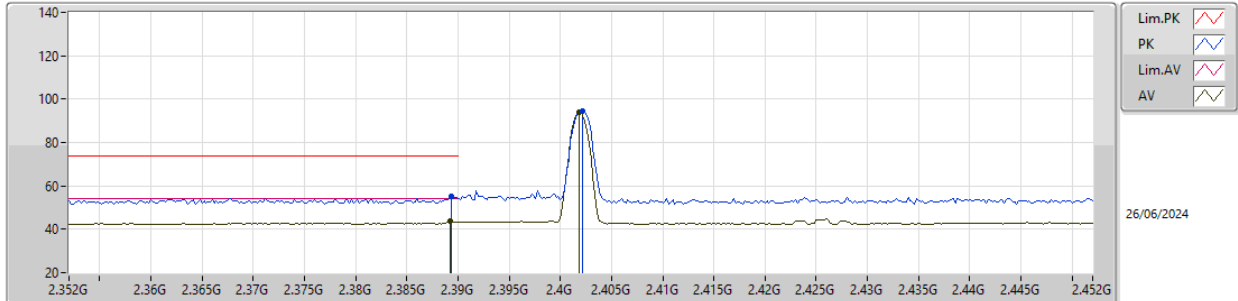


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	AV	2.5G	44.00	54.00	-10.00	3	Vertical	108	1.92	-

2.4-2.4835GHz_BT-BR(1Mbps)

2402MHz_TX

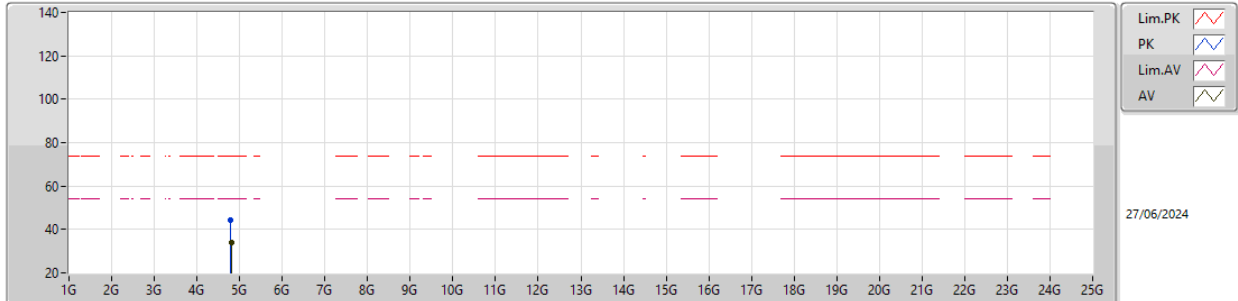


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3894G	55.35	74.00	-18.65	24.60	3	Vertical	90	1.52	-	27.40	3.35	-			
AV	2.3892G	43.67	54.00	-10.33	12.92	3	Vertical	90	1.52	-	27.40	3.35	-			
PK	2.4022G	94.45	Inf	-Inf	63.60	3	Vertical	90	1.52	-	27.50	3.35	-			
AV	2.4018G	93.80	Inf	-Inf	62.95	3	Vertical	90	1.52	-	27.50	3.35	-			

2.4-2.4835GHz_BT-BR(1Mbps)

2402MHz_TX

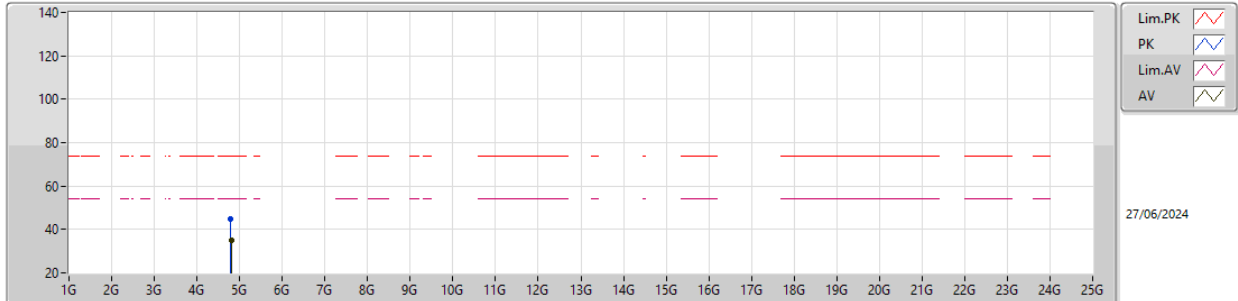


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.776G	44.44	74.00	-29.56	50.40	3	Vertical	159	2.63	-	32.35	5.64	43.95			
AV	4.8136G	34.09	54.00	-19.91	40.04	3	Vertical	159	2.63	-	32.33	5.66	43.94			

2.4-2.4835GHz_BT-BR(1Mbps)

2402MHz_TX

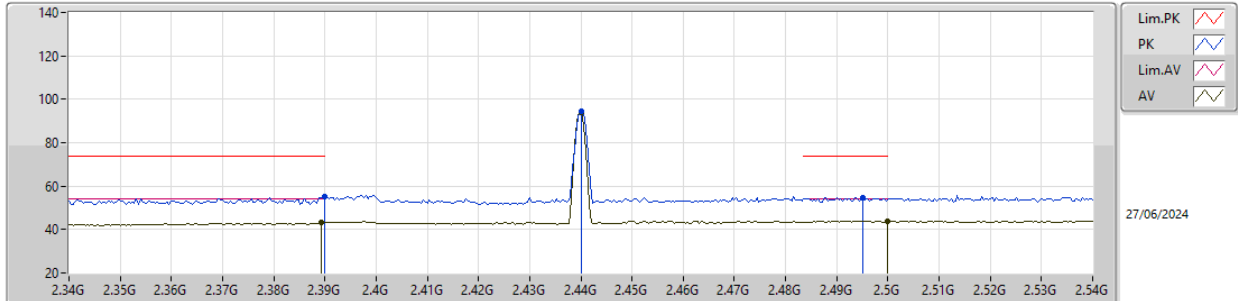


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.79744G	45.01	74.00	-28.99	50.99	3	Horizontal	40	1.52	-	32.31	5.65	43.94			
AV	4.8138G	34.95	54.00	-19.05	40.90	3	Horizontal	40	1.52	-	32.33	5.66	43.94			

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz_TX

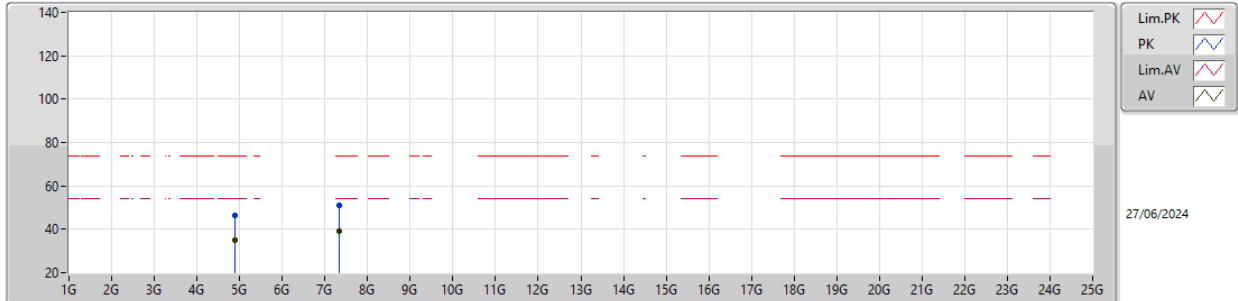


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.39G	55.29	74.00	-18.71	24.54	3	Vertical	108	1.92	-	27.40	3.35	-			
AV	2.3892G	43.45	54.00	-10.55	12.70	3	Vertical	108	1.92	-	27.40	3.35	-			
PK	2.44G	94.65	Inf	-Inf	63.68	3	Vertical	108	1.92	-	27.60	3.37	-			
AV	2.44G	94.11	Inf	-Inf	63.14	3	Vertical	108	1.92	-	27.60	3.37	-			
PK	2.4952G	54.76	74.00	-19.24	23.66	3	Vertical	108	1.92	-	27.70	3.40	-			
AV	2.5G	44.00	54.00	-10.00	12.89	3	Vertical	108	1.92	-	27.70	3.41	-			

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz_TX

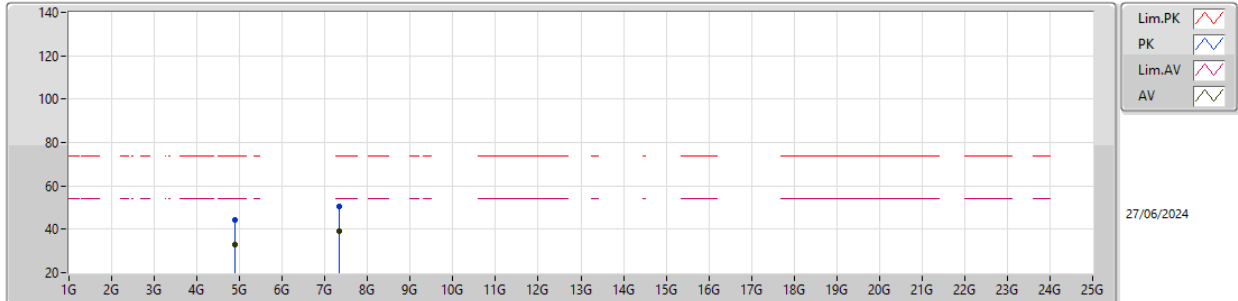


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9017G	46.59	74.00	-27.41	52.17	3	Vertical	158	2.72	-	32.60	5.74	43.92			
AV	4.9036G	34.87	54.00	-19.13	40.44	3	Vertical	158	2.72	-	32.61	5.74	43.92			
PK	7.3321G	51.02	74.00	-22.98	49.48	3	Vertical	112	1.70	-	37.20	7.13	42.79			
AV	7.3419G	39.00	54.00	-15.00	37.47	3	Vertical	112	1.70	-	37.20	7.14	42.81			

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz_TX

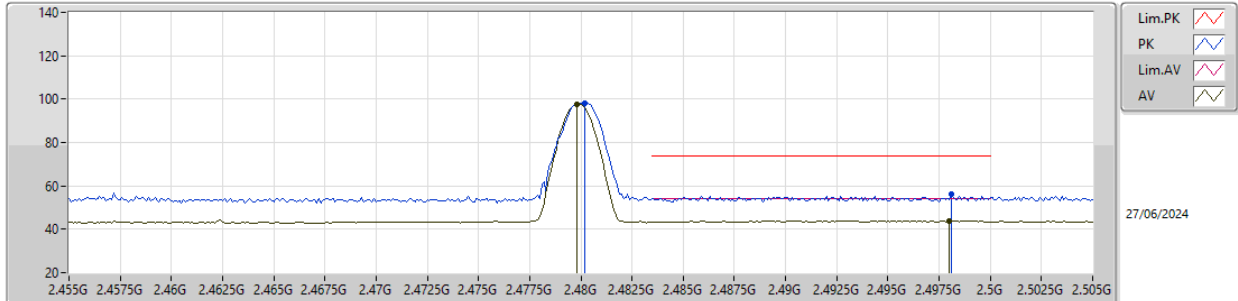


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8869G	44.27	74.00	-29.73	49.91	3	Horizontal	212	1.47	-	32.55	5.73	43.92			
AV	4.8856G	32.79	54.00	-21.21	38.44	3	Horizontal	212	1.47	-	32.54	5.73	43.92			
PK	7.3449G	50.37	74.00	-23.63	48.84	3	Horizontal	171	2.31	-	37.20	7.14	42.81			
AV	7.3444G	39.19	54.00	-14.81	37.66	3	Horizontal	171	2.31	-	37.20	7.14	42.81			

2.4-2.4835GHz_BT-BR(1Mbps)

2480MHz_TX

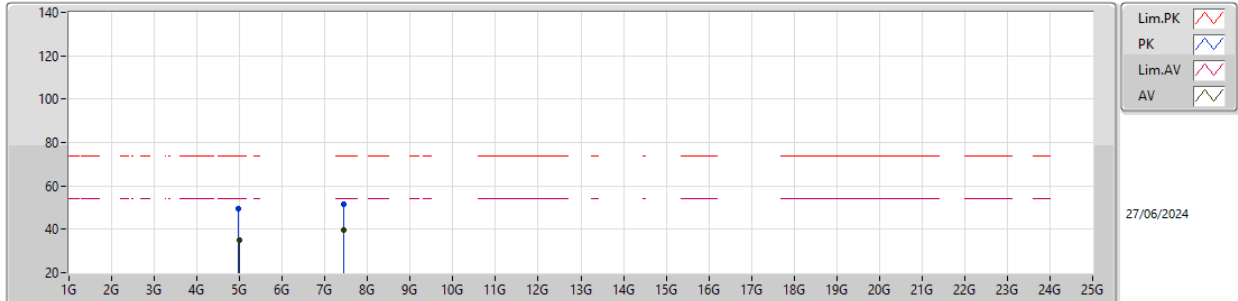


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4802G	98.36	Inf	-Inf	67.37	3	Vertical	53	1.11	-	27.60	3.39	-			
AV	2.4798G	97.73	Inf	-Inf	66.74	3	Vertical	53	1.11	-	27.60	3.39	-			
PK	2.4981G	55.98	74.00	-18.02	24.88	3	Vertical	53	1.11	-	27.70	3.40	-			
AV	2.498G	43.97	54.00	-10.03	12.87	3	Vertical	53	1.11	-	27.70	3.40	-			

2.4-2.4835GHz_BT-BR(1Mbps)

2480MHz_TX

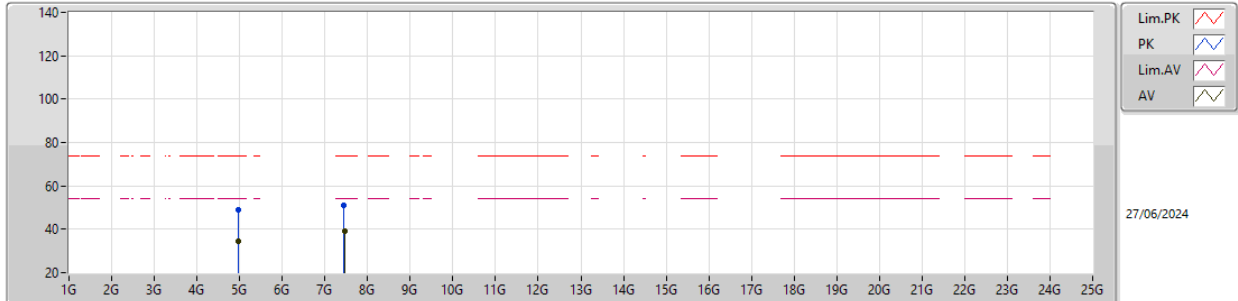


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9809G	49.41	74.00	-24.59	54.79	3	Vertical	40	1.00	-	32.70	5.81	43.89			
AV	4.9841G	34.85	54.00	-19.15	40.22	3	Vertical	40	1.00	-	32.70	5.82	43.89			
PK	7.4464G	51.73	74.00	-22.27	50.27	3	Vertical	178	1.78	-	37.20	7.22	42.96			
AV	7.4533G	39.54	54.00	-14.46	38.08	3	Vertical	178	1.78	-	37.20	7.23	42.97			

2.4-2.4835GHz_BT-BR(1Mbps)

2480MHz_TX

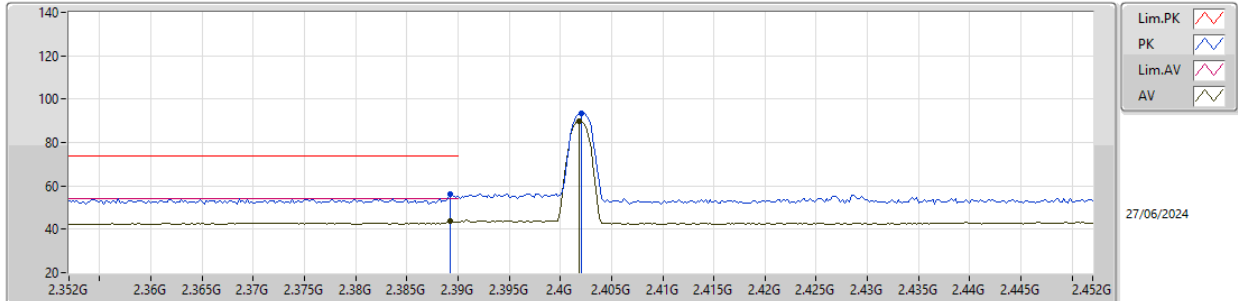


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9785G	48.84	74.00	-25.16	54.23	3	Horizontal	121	1.80	-	32.70	5.81	43.90			
AV	4.9812G	34.23	54.00	-19.77	39.61	3	Horizontal	121	1.80	-	32.70	5.81	43.89			
PK	7.4461G	50.94	74.00	-23.06	49.48	3	Horizontal	176	2.45	-	37.20	7.22	42.96			
AV	7.464G	39.22	54.00	-14.78	37.77	3	Horizontal	176	2.45	-	37.20	7.24	42.99			

2.4-2.4835GHz_BT-EDR(3Mbps)

2402MHz_TX

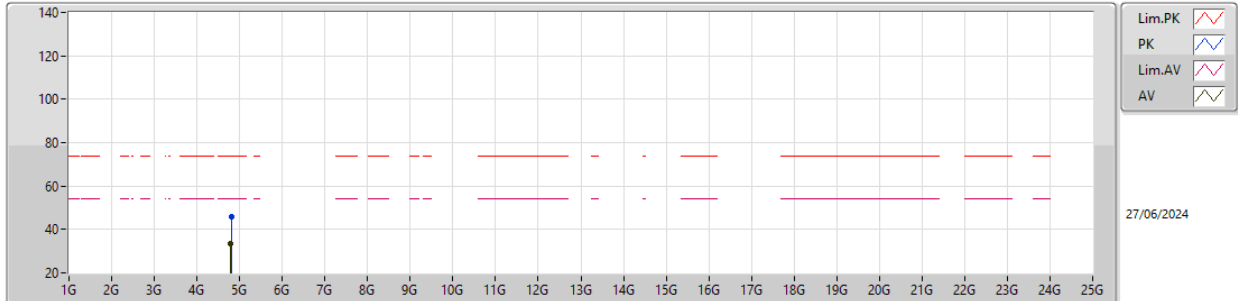


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3892G	56.09	74.00	-17.91	25.34	3	Vertical	94	1.48	-	27.40	3.35	-			
AV	2.3892G	43.67	54.00	-10.33	12.92	3	Vertical	94	1.48	-	27.40	3.35	-			
PK	2.402G	93.64	Inf	-Inf	62.79	3	Vertical	94	1.48	-	27.50	3.35	-			
AV	2.4018G	89.92	Inf	-Inf	59.07	3	Vertical	94	1.48	-	27.50	3.35	-			

2.4-2.4835GHz_BT-EDR(3Mbps)

2402MHz_TX

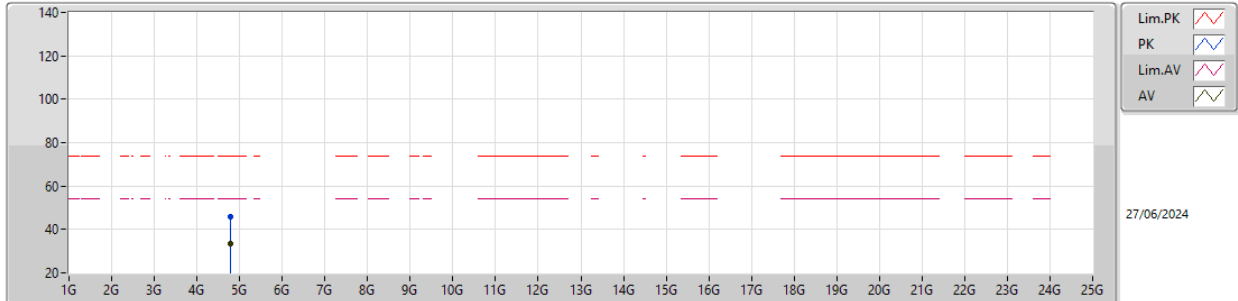


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8162G	45.83	74.00	-28.17	51.78	3	Vertical	147	2.71	-	32.33	5.66	43.94			
AV	4.7847G	33.64	54.00	-20.36	39.62	3	Vertical	147	2.71	-	32.33	5.64	43.95			

2.4-2.4835GHz_BT-EDR(3Mbps)

2402MHz_TX

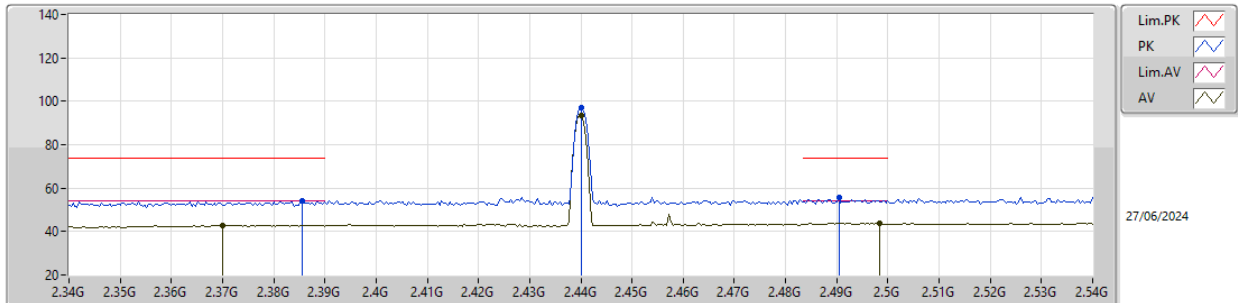


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.797G	45.80	74.00	-28.20	51.78	3	Horizontal	126	2.73	-	32.31	5.65	43.94			
AV	4.7937G	33.67	54.00	-20.33	39.65	3	Horizontal	126	2.73	-	32.31	5.65	43.94			

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_TX

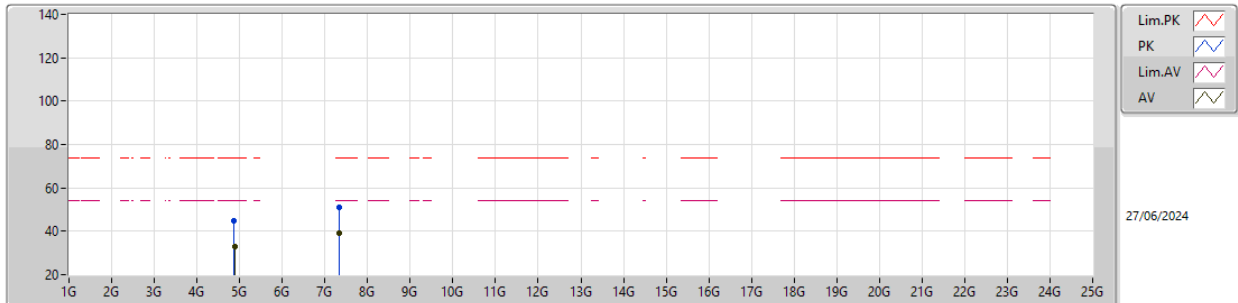


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3856G	53.91	74.00	-20.09	23.17	3	Vertical	55	1.24	-	27.40	3.34	-			
AV	2.37G	42.78	54.00	-11.22	11.94	3	Vertical	55	1.24	-	27.50	3.34	-			
PK	2.44G	97.01	Inf	-Inf	66.04	3	Vertical	55	1.24	-	27.60	3.37	-			
AV	2.44G	93.48	Inf	-Inf	62.51	3	Vertical	55	1.24	-	27.60	3.37	-			
PK	2.4904G	55.54	74.00	-18.46	24.44	3	Vertical	55	1.24	-	27.70	3.40	-			
AV	2.4984G	43.74	54.00	-10.26	12.64	3	Vertical	55	1.24	-	27.70	3.40	-			

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_TX

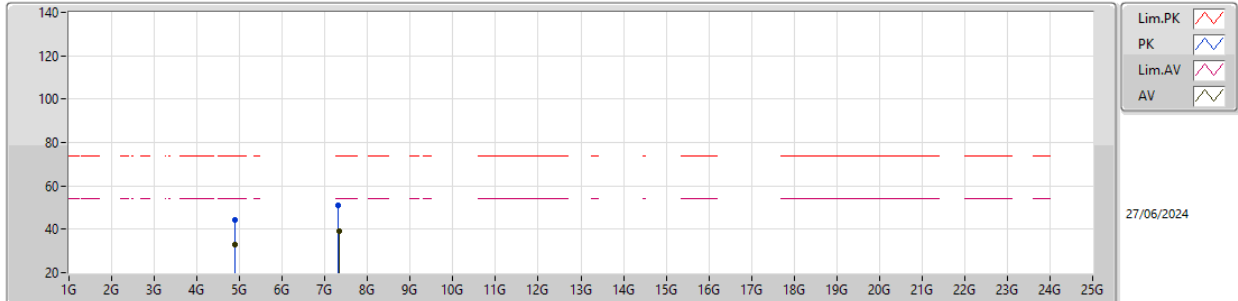


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8641G	44.57	74.00	-29.43	50.33	3	Vertical	107	2.72	-	32.46	5.71	43.93			
AV	4.8893G	32.81	54.00	-21.19	38.44	3	Vertical	107	2.72	-	32.56	5.73	43.92			
PK	7.3373G	51.24	74.00	-22.76	49.70	3	Vertical	36	1.85	-	37.20	7.14	42.80			
AV	7.3442G	39.06	54.00	-14.94	37.53	3	Vertical	36	1.85	-	37.20	7.14	42.81			

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_TX

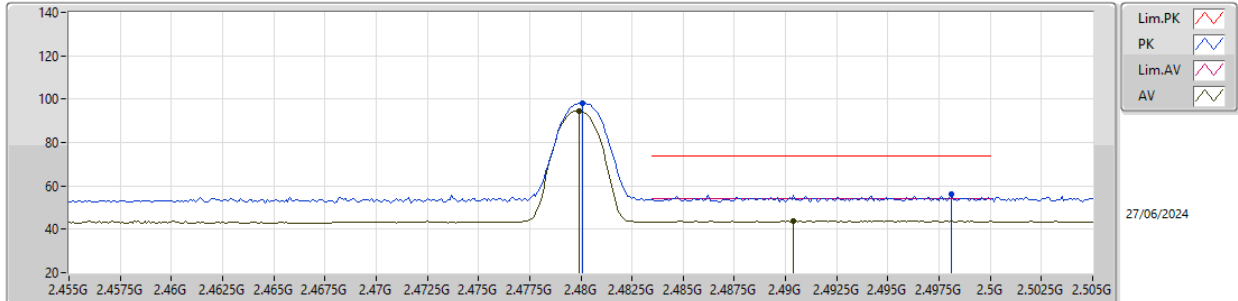


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8971G	44.18	74.00	-29.82	49.77	3	Horizontal	341	1.24	-	32.59	5.74	43.92			
AV	4.887G	32.97	54.00	-21.03	38.61	3	Horizontal	341	1.24	-	32.55	5.73	43.92			
PK	7.3143G	50.78	74.00	-23.22	49.23	3	Horizontal	44	1.46	-	37.20	7.12	42.77			
AV	7.3442G	39.29	54.00	-14.81	37.66	3	Horizontal	44	1.46	-	37.20	7.14	42.81			

2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_TX

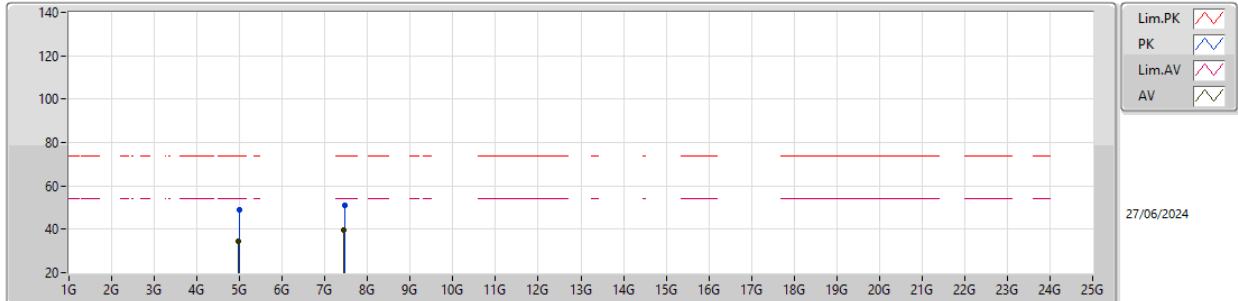


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4801G	98.02	Inf	-Inf	67.03	3	Vertical	50	1.09	-	27.60	3.39	-			
AV	2.4799G	94.57	Inf	-Inf	63.58	3	Vertical	50	1.09	-	27.60	3.39	-			
PK	2.4981G	56.33	74.00	-17.67	25.23	3	Vertical	50	1.09	-	27.70	3.40	-			
AV	2.4904G	43.90	54.00	-10.10	12.80	3	Vertical	50	1.09	-	27.70	3.40	-			

2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_TX

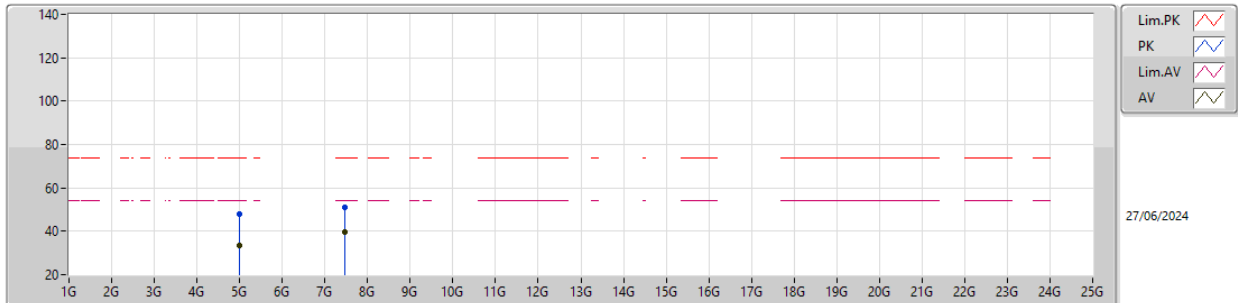


EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9842G	49.20	74.00	-24.80	54.57	3	Vertical	40	1.06	-	32.70	5.82	43.89			
AV	4.9812G	34.63	54.00	-19.37	40.01	3	Vertical	40	1.06	-	32.70	5.81	43.89			
PK	7.4613G	51.15	74.00	-22.85	49.70	3	Vertical	17	1.55	-	37.20	7.23	42.98			
AV	7.4497G	39.51	54.00	-14.49	38.06	3	Vertical	17	1.55	-	37.20	7.22	42.97			

2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_TX



EUT_Z_1TX
Setting 0
04-M-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9839G	48.09	74.00	-25.91	53.46	3	Horizontal	53	2.13	-	32.70	5.82	43.89			
AV	4.9839G	33.25	54.00	-20.75	38.62	3	Horizontal	53	2.13	-	32.70	5.82	43.89			
PK	7.4568G	51.04	74.00	-22.96	49.59	3	Horizontal	307	1.97	-	37.20	7.23	42.98			
AV	7.4631G	39.51	54.00	-14.49	38.06	3	Horizontal	307	1.97	-	37.20	7.24	42.99			