



FCC Test Report

FCC ID : JNZVR0019
Equipment : Camera and Speakerphone unit
Brand Name : Logitech
Model Name : VR0019
Applicant : LOGITECH FAR EAST LTD.
2 Creation Rd. 4, Science-Based Ind. Park Hsinchu
Taiwan, R.O.C.
Manufacturer : Microelectronics Technology Inc.
No. 1, Innovation Road II, Hsinchu Science Park,
Hsinchu 300, Taiwan, R.O.C.
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 06, 2020, and testing was started from Oct. 26, 2020 and completed on Dec. 23, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



Table of Contents

HISTORY OF THIS TEST REPORT3

SUMMARY OF TEST RESULT4

1 GENERAL DESCRIPTION5

1.1 Information.....5

1.2 Testing Applied Standards6

1.3 Testing Location Information7

1.4 Measurement Uncertainty7

2 TEST CONFIGURATION OF EUT.....8

2.1 Test Condition8

2.2 Test Channel Mode8

2.3 The Worst Case Measurement Configuration9

2.4 Accessories10

2.5 Support Equipment.....10

2.6 Test Setup Diagram11

3 TRANSMITTER TEST RESULT13

3.1 AC Power-line Conducted Emissions13

3.2 DTS Bandwidth.....15

3.3 Maximum Conducted Output Power16

3.4 Power Spectral Density18

3.5 Emissions in Non-restricted Frequency Bands19

3.6 Emissions in Restricted Frequency Bands.....20

4 TEST EQUIPMENT AND CALIBRATION DATA.....24

APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS

APPENDIX B. TEST RESULTS OF DTS BANDWIDTH

APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER

APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY

APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS

APPENDIX G. TEST PHOTOS

PHOTOGRAPHS OF EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FR002810AL	01	Initial issue of report	Jan. 07, 2021



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)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	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:
None

Reviewed by: Sam Tsai

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:
<ul style="list-style-type: none"> ◆ Bluetooth LE uses a GFSK (1Mbps/2Mbps) modulation. ◆ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	FIH	PCB	Monopole	Murata
2	FIH	PCB	Monopole	Murata

Ant.	Port	Gain (dBi)					
		2.4G	5G Band 1	5G Band 2	5G Band 3	5G Band 4	BT
1	1	6.91	8.84	8.81	8.66	7.02	6.91
2	2	4.99	7.59	7.20	6.09	6.46	-

Note 1: The EUT has two antennas.

For 2.4 GHz function:

For IEEE 802.11b/g/n/ac mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5 GHz function:

For IEEE 802.11b/g/n/ac mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From Power Adapter
EUT Function	<input checked="" type="checkbox"/> Point-to-multipoint <input type="checkbox"/> Point-to-point
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	0.629	2.01	393.438u	3k
BT-LE(2Mbps)	0.333	4.78	208.438u	10k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

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

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

1.3 Testing Location Information

Testing Location		
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.		
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.		
<input type="checkbox"/>	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL : 886-3-318-0787 FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.		

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	22.5~24.3°C / 56~ 63%	04/Nov/2020
RF Conducted	TH01-HY	Vivi Jiang	23.1~26.9°C / 50~62%	01/Dec/2020~ 17/Dec/2020
Radiated	03CH03-HY	Daniel Lin	22.6~25.9°C / 50~53%	26/Oct/2020~ 23/Dec/2020

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)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode




Test Software Version	QRCTv00074.101-30-20_06_01_09
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Mode	Radiated Setting	Conducted Setting
BT-LE(1Mbps)	-	-
2402MHz	default	default
2440MHz	default	default
2480MHz	default	default
BT-LE(2Mbps)	-	-
2402MHz	default	default
2440MHz	default	default
2480MHz	default	default

2.3 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
Operating Mode	CTX
1	Adapter Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density 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	CTX		
1	Adapter Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

2.4 Accessories

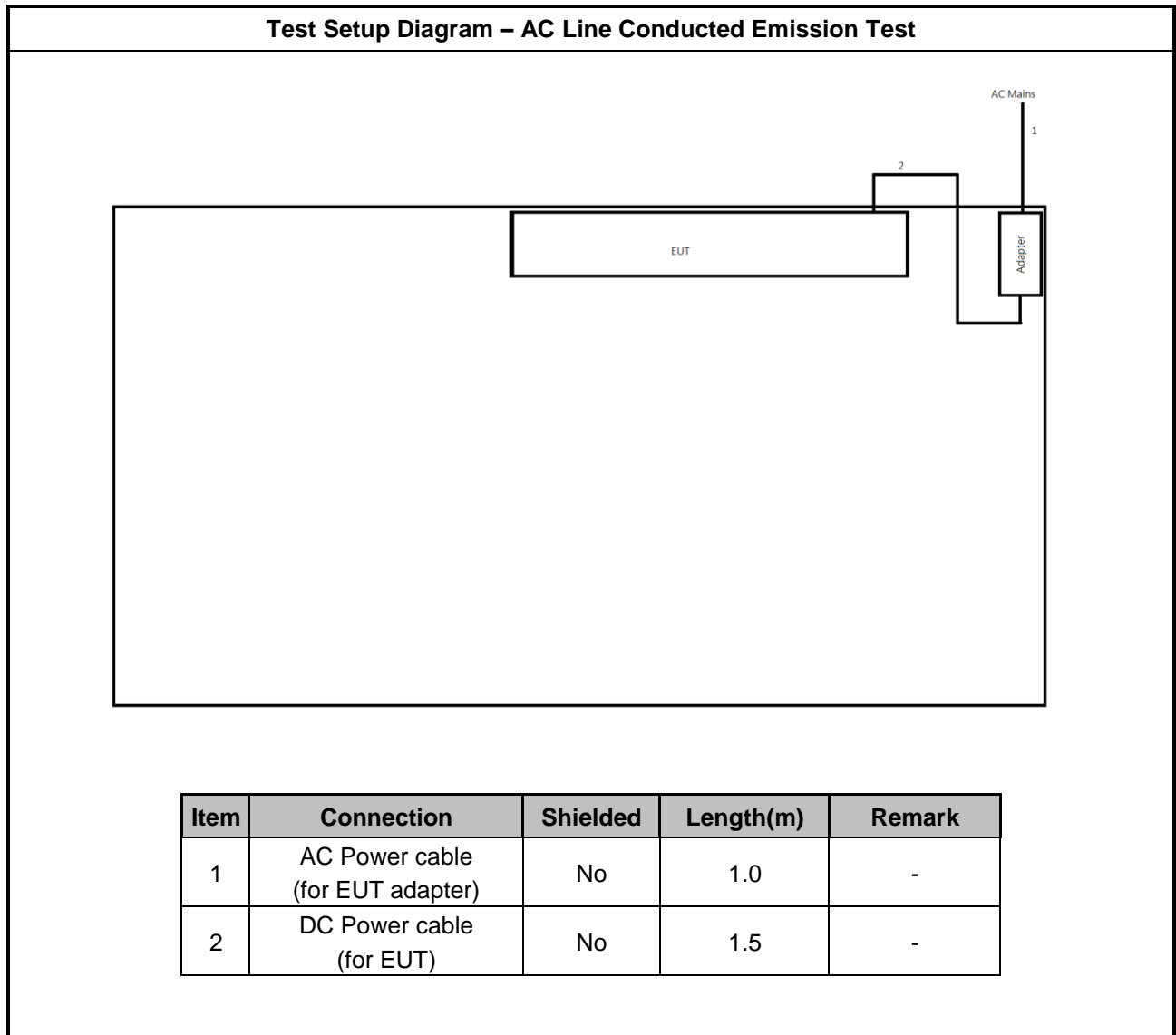
Accessories				
AC Adapter	Brand Name	LOGI	Model Name	DSA-90PFE-19 3 190474
	Manufacturer	LOGI	SN	2027000061
	Power Rating	I/P: 100 - 240 Vac, 1.5 A, O/P: 19Vdc, 4.74 A		
	Power Cord	1 meter, non-shielded cable, w/o ferrite core		
Power Cable	Brand Name	LOGI	Model Name	502-001092
	Signal Line	1 meter, non-shielded cable, w/o ferrite core		
HDMI Cable	Brand Name	LOGI	Model Name	502-001199
	Signal Line	2.0 meter, non-shielded cable, w/o ferrite core		
USB Cable	Brand Name	LOGI	Model Name	502-001065
	Signal Line	2.meter, non-shielded cable, w/o ferrite core		
Remote Control	Brand Name	LOGI	Model Name	RR0016
Remote Control Stand	Brand Name	LOGI	Model Name	RR0016

Reminder: Regarding to more detail and other information, please refer to user manual.

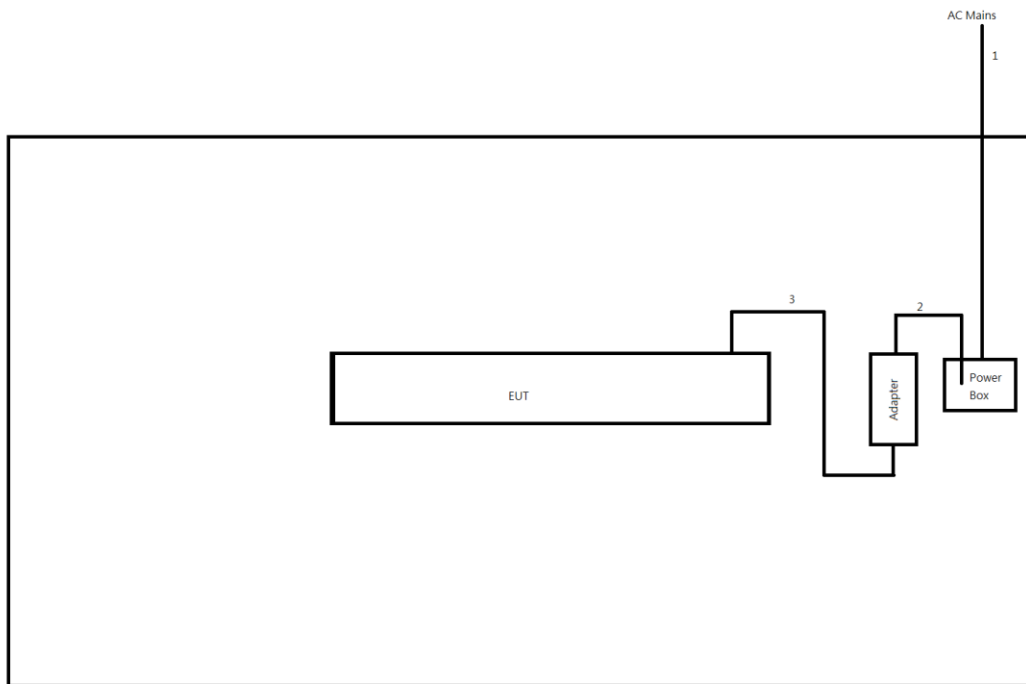
2.5 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable(for EUT adapter)	No	1.0	-
3	DC Power cable(for EUT)	No	1.5	-

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

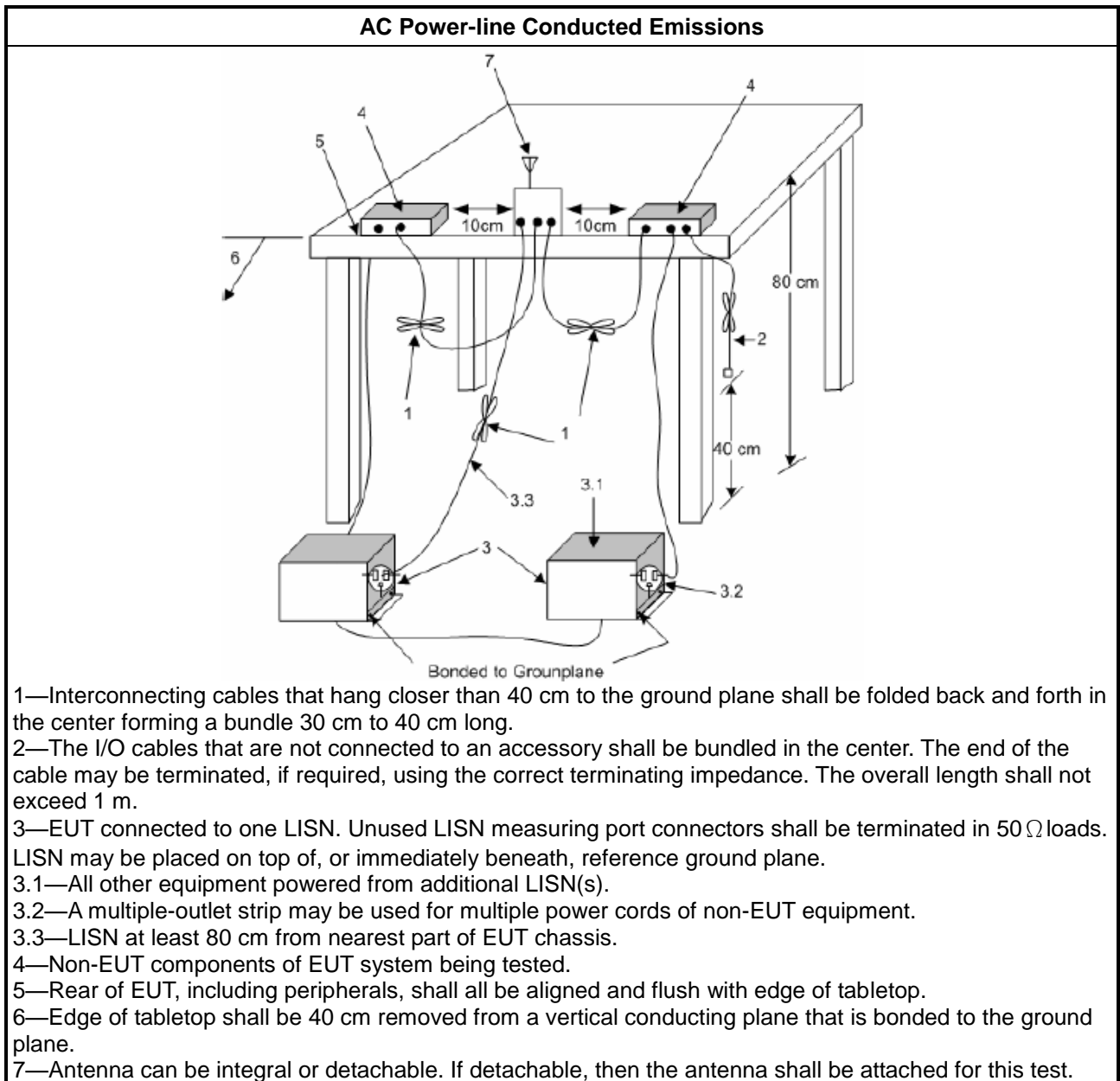
Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth \geq 500 kHz.

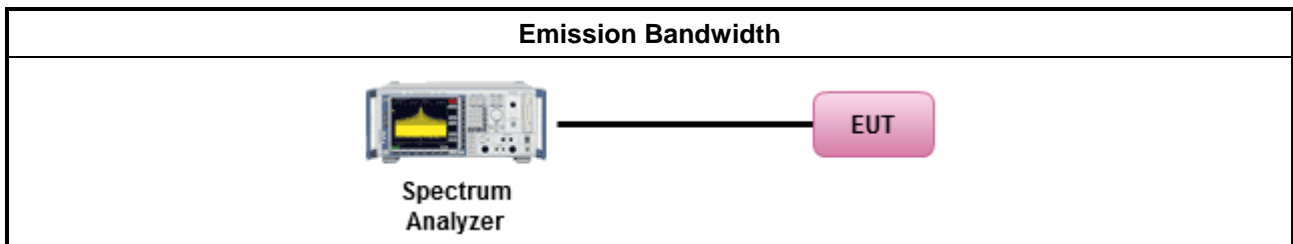
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/>	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dBm
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

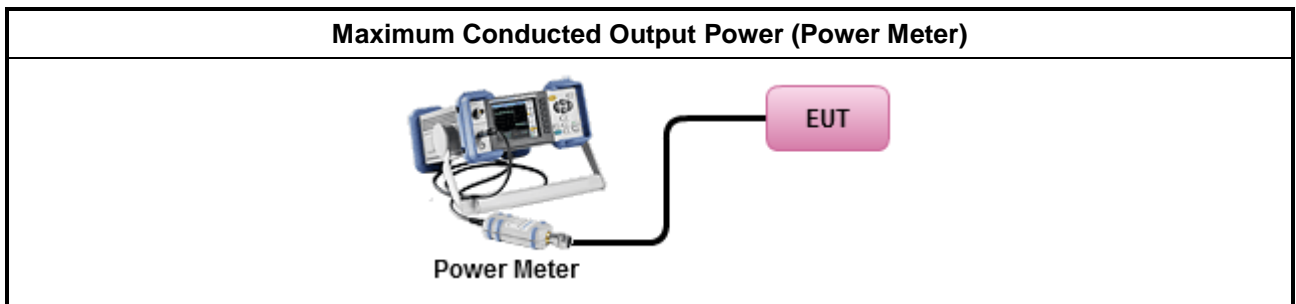
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> Power Spectral Density (PSD) ≤ 8 dBm/3kHz

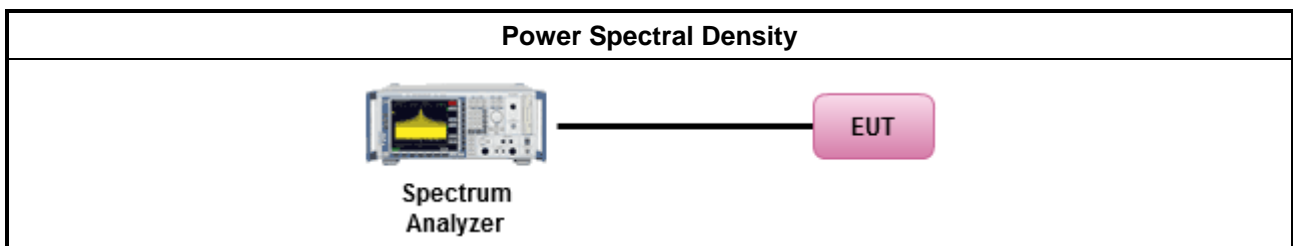
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
	<ul style="list-style-type: none"> For conducted measurement.
	<ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below:
	<ul style="list-style-type: none"> Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

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 level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.

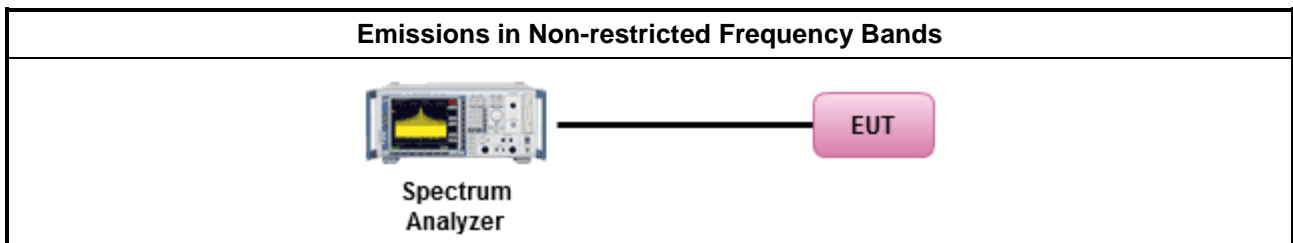
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 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.

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

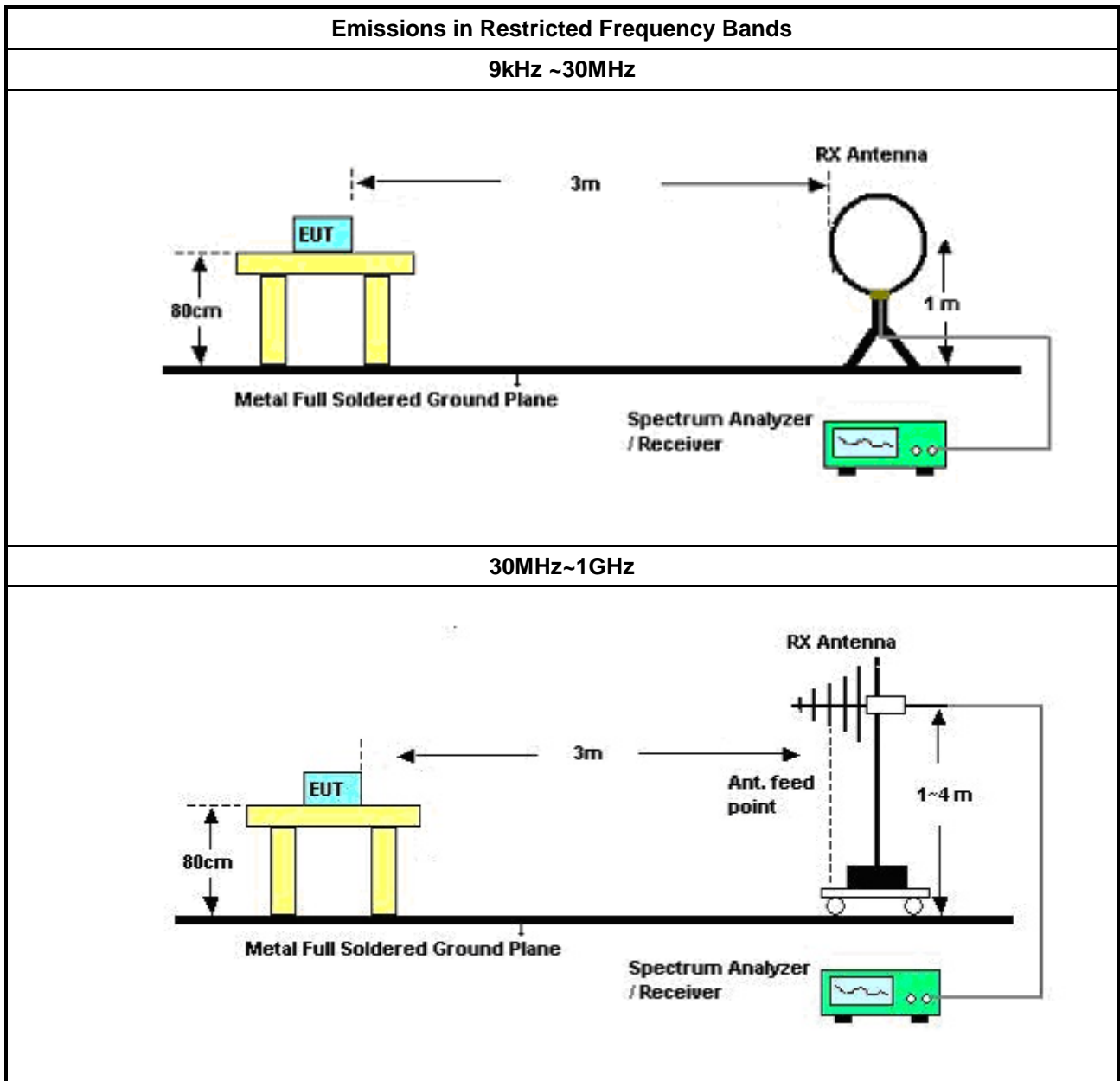
Test Method	
	<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below:
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below:
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	<ul style="list-style-type: none"> ▪ Use the following spectrum analyzer settings:
	<ul style="list-style-type: none"> ▪ Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> ▪ Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
	<ul style="list-style-type: none"> ▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	<ul style="list-style-type: none"> ▪ Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	<ul style="list-style-type: none"> ▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

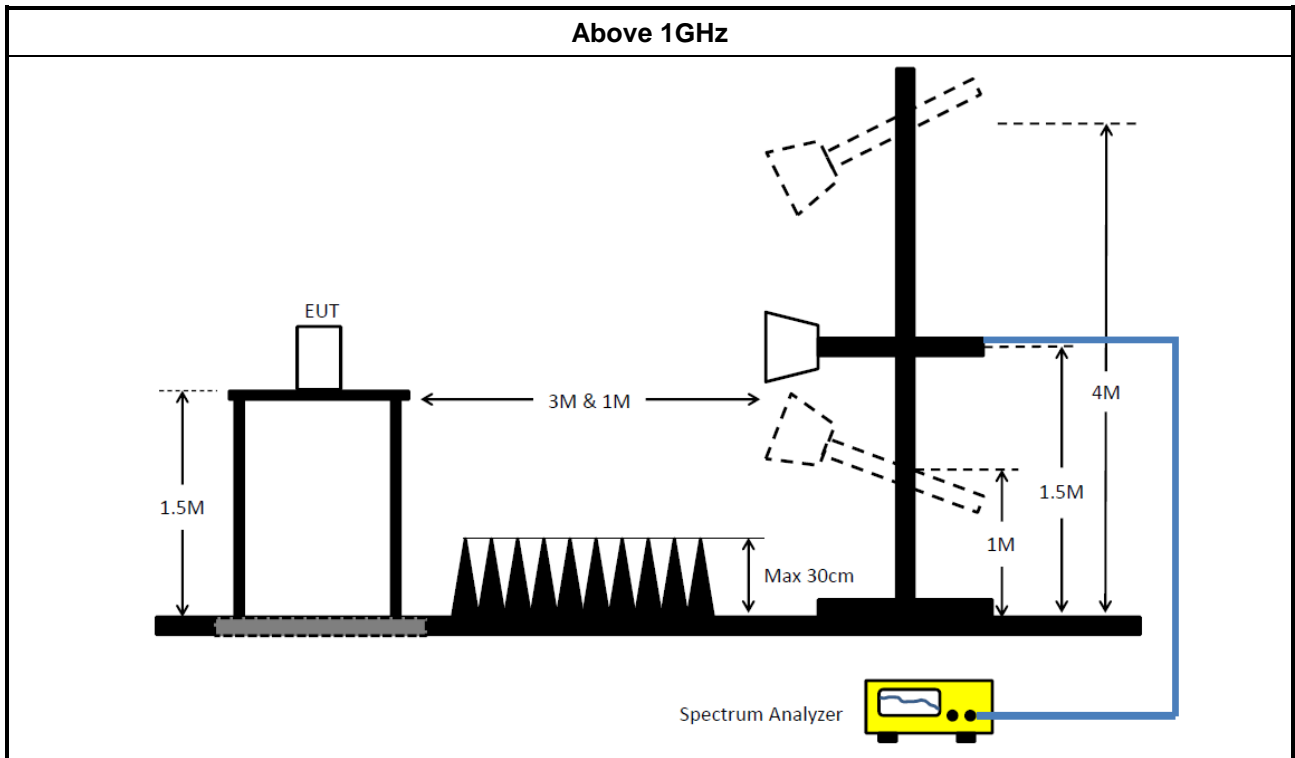
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	100003	9kHz ~ 30MHz	23/Sep/2020	22/Sep/2021
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	31/Aug/2020	30/Aug/2021
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2022
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	18/Mar/2020	17/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	11/Nov/2020



Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	06/Aug/2020	05/Aug/2021
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	04/Aug/2020	03/Aug/2021
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	19/Aug/2020	18/Aug/2021
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	14/Apr/2020	13/Apr/2021
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz~26.5GHz	06/Oct/2020	05/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	26/Mar/2020	25/Mar/2021
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	19/Jun/2020	18/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz~1GHz	18/Mar/2020	17/Mar/2021
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN MY38596/4+SN 804300/4	1GHz~40GHz	04/Aug/2020	03/Aug/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2020	15/Mar/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021



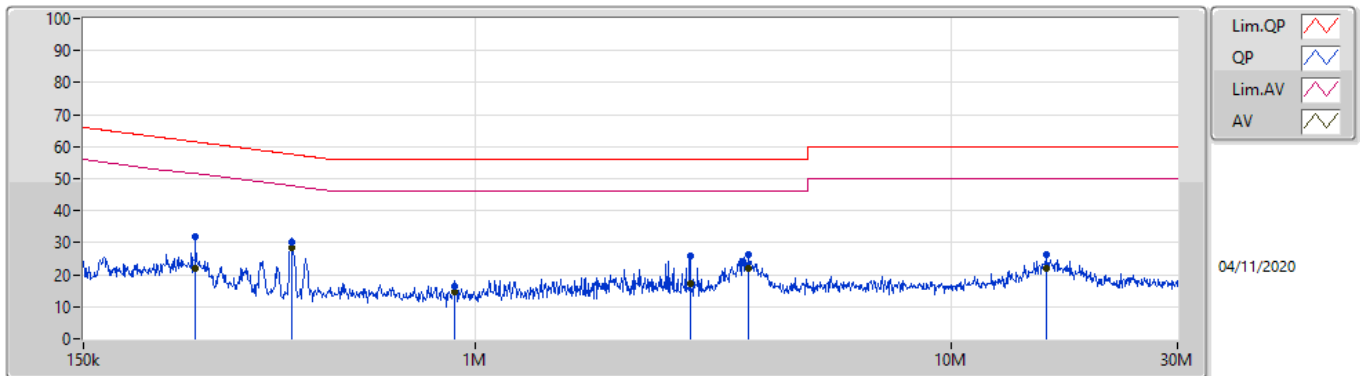
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	411.832k	29.97	47.61	-17.64	Neutral

Mode Configure

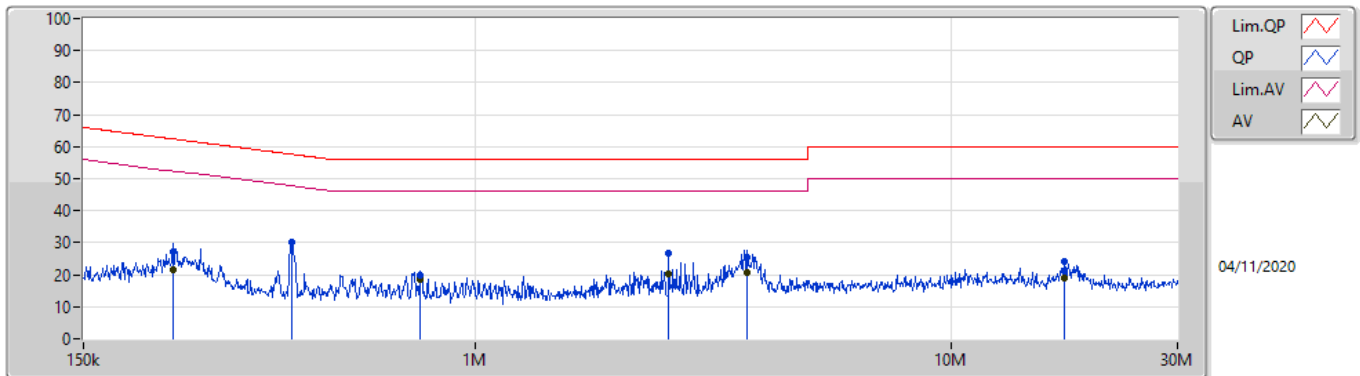
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	258.152k	31.77	61.49	-29.72	Line	-
Mode 1	Pass	AV	258.152k	22.11	51.49	-29.38	Line	-
Mode 1	Pass	QP	410.192k	30.28	57.64	-27.36	Line	-
Mode 1	Pass	AV	410.192k	28.56	47.64	-19.08	Line	"Worst"
Mode 1	Pass	QP	907.812k	16.36	56.00	-39.64	Line	-
Mode 1	Pass	AV	907.812k	14.74	46.00	-31.26	Line	-
Mode 1	Pass	QP	2.832M	25.73	56.00	-30.27	Line	-
Mode 1	Pass	AV	2.832M	17.26	46.00	-28.74	Line	-
Mode 1	Pass	QP	3.76M	26.17	56.00	-29.83	Line	-
Mode 1	Pass	AV	3.76M	22.18	46.00	-23.82	Line	-
Mode 1	Pass	QP	15.888M	26.48	60.00	-33.52	Line	-
Mode 1	Pass	AV	15.888M	21.78	50.00	-28.22	Line	-
Mode 1	Pass	QP	230.851k	27.31	62.42	-35.11	Neutral	-
Mode 1	Pass	AV	230.851k	21.63	52.42	-30.79	Neutral	-
Mode 1	Pass	QP	411.832k	30.23	57.61	-27.38	Neutral	-
Mode 1	Pass	AV	411.832k	29.97	47.61	-17.64	Neutral	"Worst"
Mode 1	Pass	QP	767.679k	19.79	56.00	-36.21	Neutral	-
Mode 1	Pass	AV	767.679k	18.40	46.00	-27.60	Neutral	-
Mode 1	Pass	QP	2.553M	26.85	56.00	-29.15	Neutral	-
Mode 1	Pass	AV	2.553M	20.18	46.00	-25.82	Neutral	-
Mode 1	Pass	QP	3.73M	25.46	56.00	-30.54	Neutral	-
Mode 1	Pass	AV	3.73M	20.81	46.00	-25.19	Neutral	-
Mode 1	Pass	QP	17.346M	24.23	60.00	-35.77	Neutral	-
Mode 1	Pass	AV	17.346M	19.05	50.00	-30.95	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	258.152k	31.77	61.49	-29.72	19.51	Line	-	12.26	9.60	0.01	9.90
AV	258.152k	22.11	51.49	-29.38	19.51	Line	-	2.60	9.60	0.01	9.90
QP	410.192k	30.28	57.64	-27.36	19.52	Line	-	10.76	9.60	0.02	9.90
AV	410.192k	28.56	47.64	-19.08	19.52	Line	"Worst"	9.04	9.60	0.02	9.90
QP	907.812k	16.36	56.00	-39.64	19.46	Line	-	-3.10	9.60	0.05	9.81
AV	907.812k	14.74	46.00	-31.26	19.46	Line	-	-4.72	9.60	0.05	9.81
QP	2.832M	25.73	56.00	-30.27	19.57	Line	-	6.16	9.62	0.10	9.85
AV	2.832M	17.26	46.00	-28.74	19.57	Line	-	-2.31	9.62	0.10	9.85
QP	3.76M	26.17	56.00	-29.83	19.64	Line	-	6.53	9.63	0.12	9.89
AV	3.76M	22.18	46.00	-23.82	19.64	Line	-	2.54	9.63	0.12	9.89
QP	15.888M	26.48	60.00	-33.52	19.87	Line	-	6.61	9.71	0.26	9.90
AV	15.888M	21.78	50.00	-28.22	19.87	Line	-	1.91	9.71	0.26	9.90

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	230.851k	27.31	62.42	-35.11	19.51	Neutral	-	7.80	9.60	0.01	9.90
AV	230.851k	21.63	52.42	-30.79	19.51	Neutral	-	2.12	9.60	0.01	9.90
QP	411.832k	30.23	57.61	-27.38	19.52	Neutral	-	10.71	9.60	0.02	9.90
AV	411.832k	29.97	47.61	-17.64	19.52	Neutral	"Worst"	10.45	9.60	0.02	9.90
QP	767.679k	19.79	56.00	-36.21	19.48	Neutral	-	0.31	9.61	0.04	9.83
AV	767.679k	18.40	46.00	-27.60	19.48	Neutral	-	-1.08	9.61	0.04	9.83
QP	2.553M	26.85	56.00	-29.15	19.56	Neutral	-	7.29	9.63	0.09	9.84
AV	2.553M	20.18	46.00	-25.82	19.56	Neutral	-	0.62	9.63	0.09	9.84
QP	3.73M	25.46	56.00	-30.54	19.65	Neutral	-	5.81	9.64	0.12	9.89
AV	3.73M	20.81	46.00	-25.19	19.65	Neutral	-	1.16	9.64	0.12	9.89
QP	17.346M	24.23	60.00	-35.77	20.00	Neutral	-	4.23	9.83	0.27	9.90
AV	17.346M	19.05	50.00	-30.95	20.00	Neutral	-	-0.95	9.83	0.27	9.90



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	663.75k	1.032M	1M03F1D	662.5k	1.026M
BT-LE(2Mbps)	1.143M	2.044M	2M04F1D	1.133M	2.044M

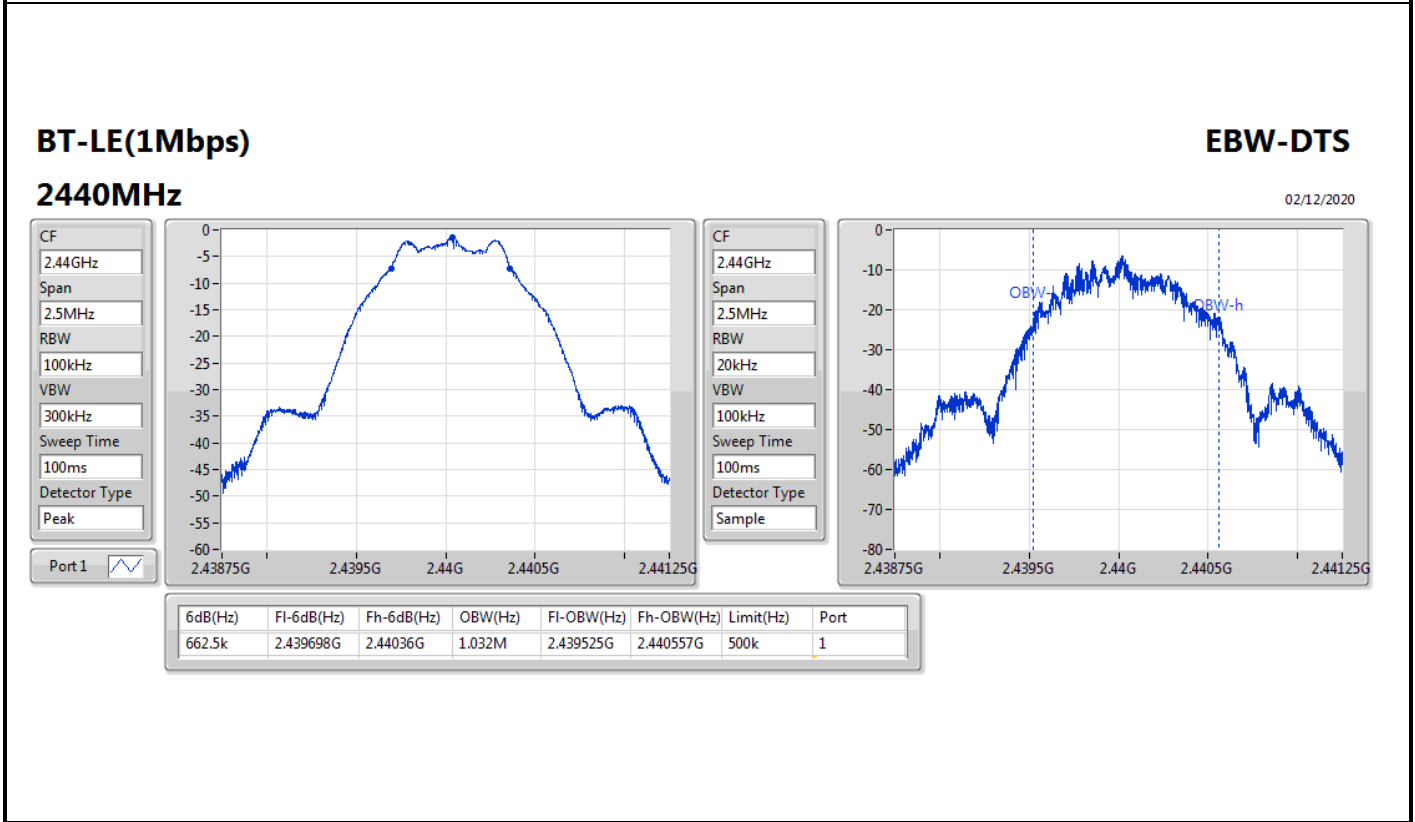
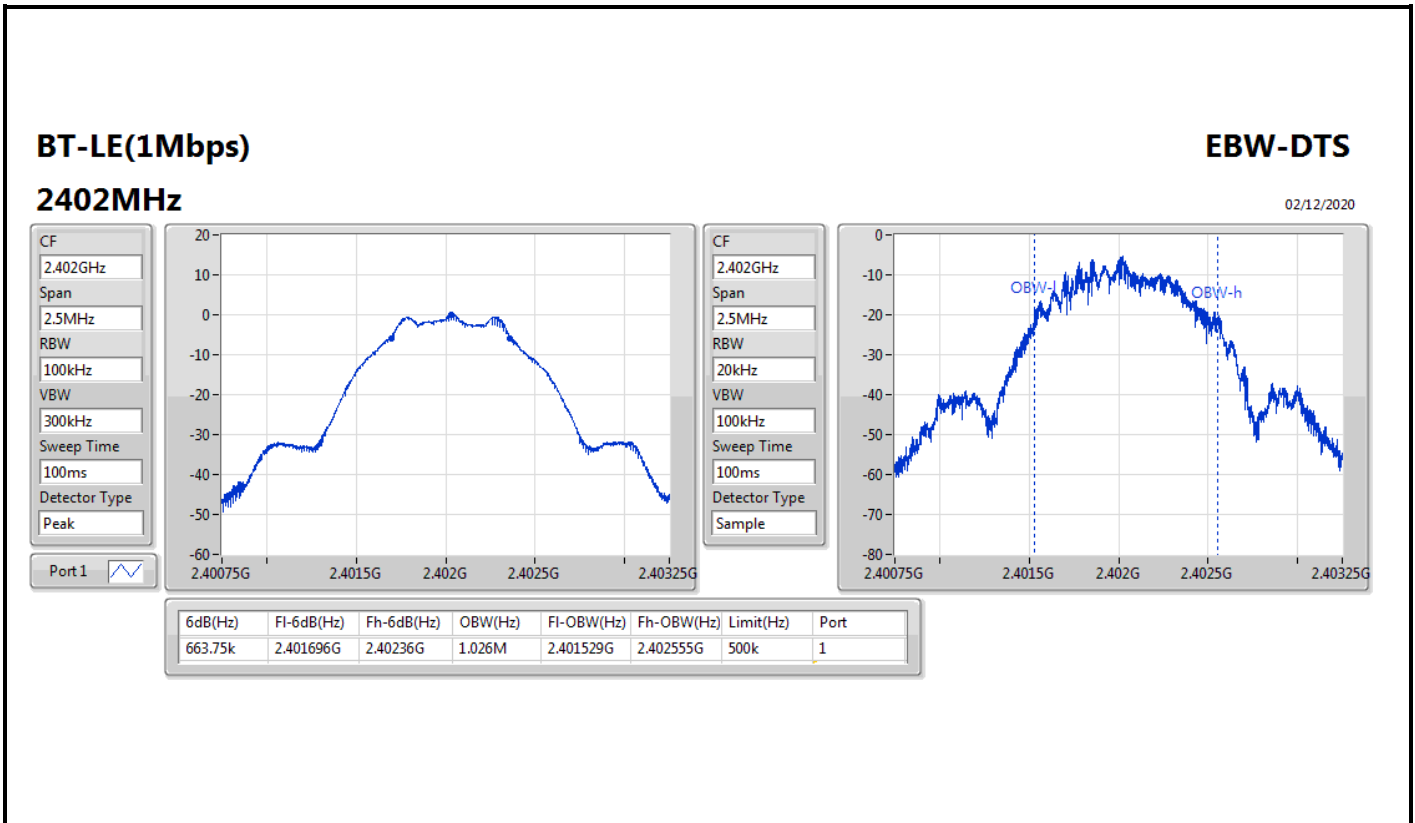
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

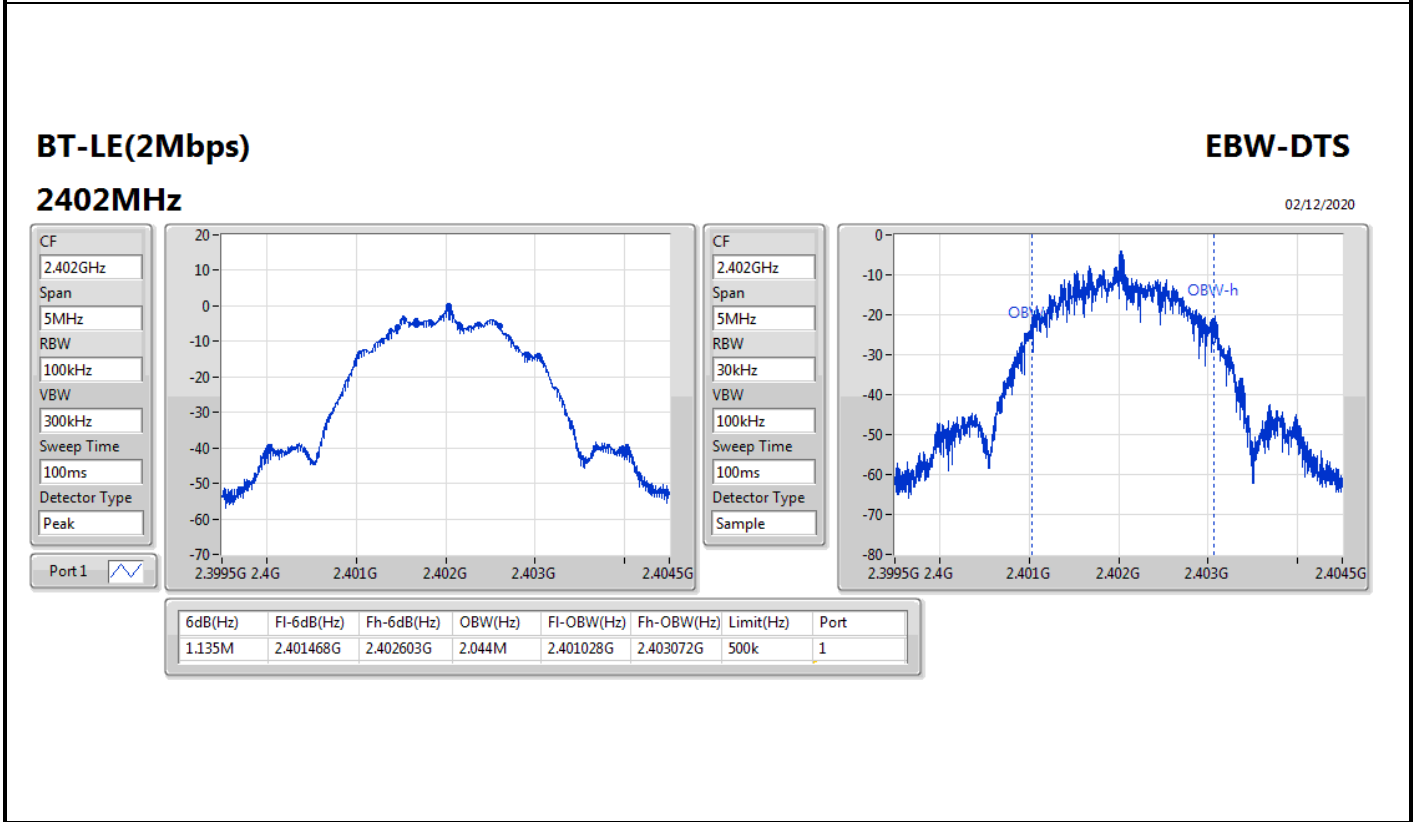
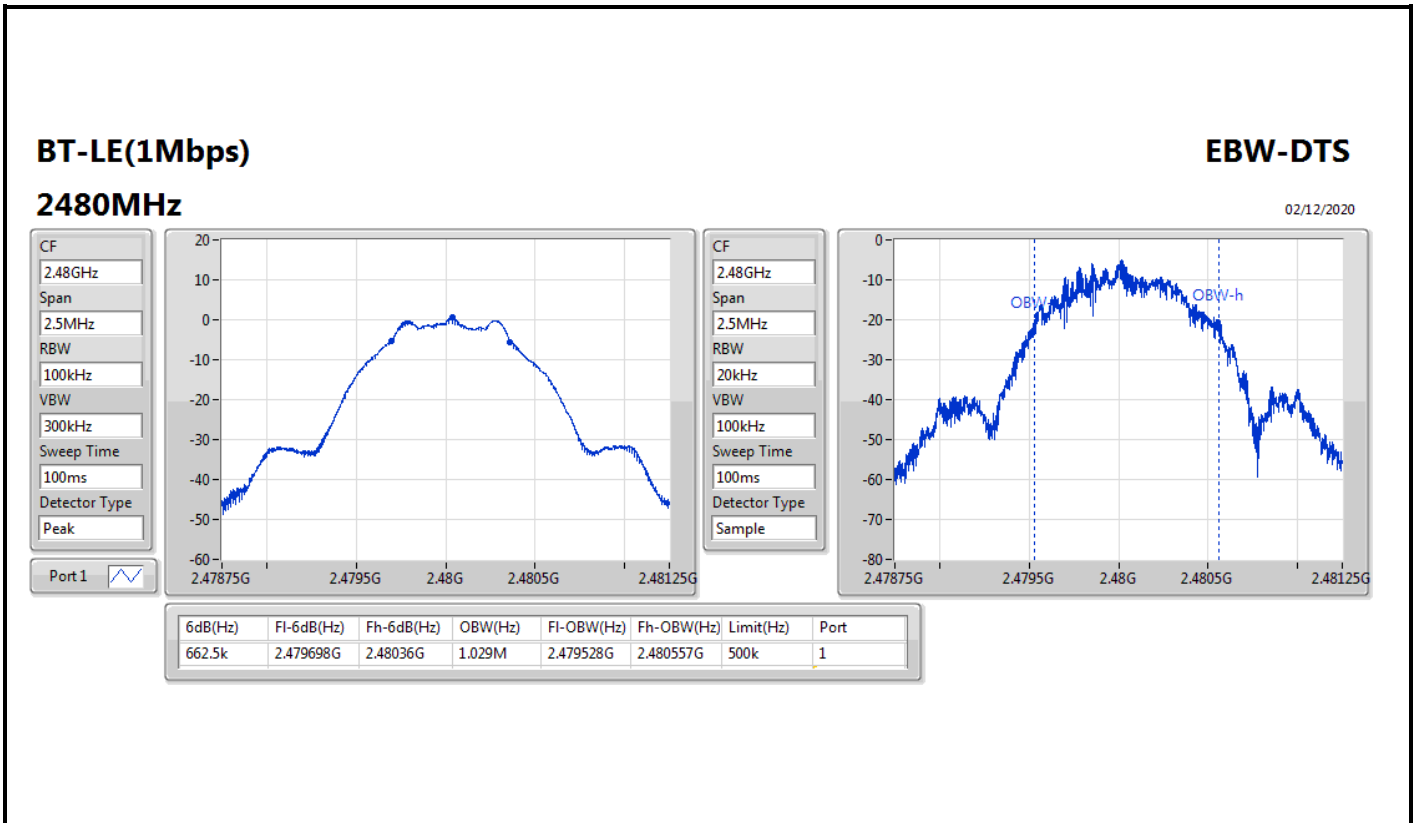


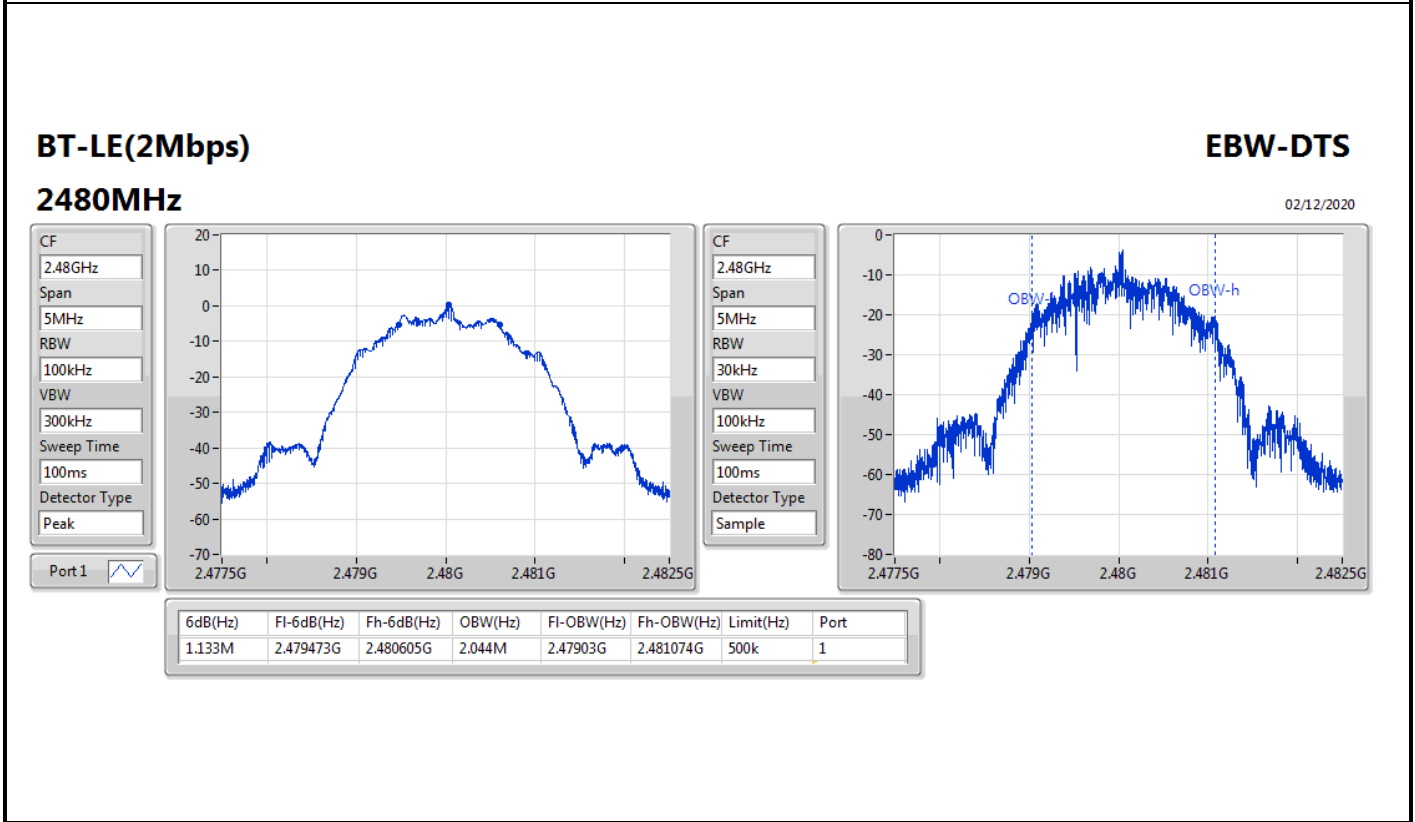
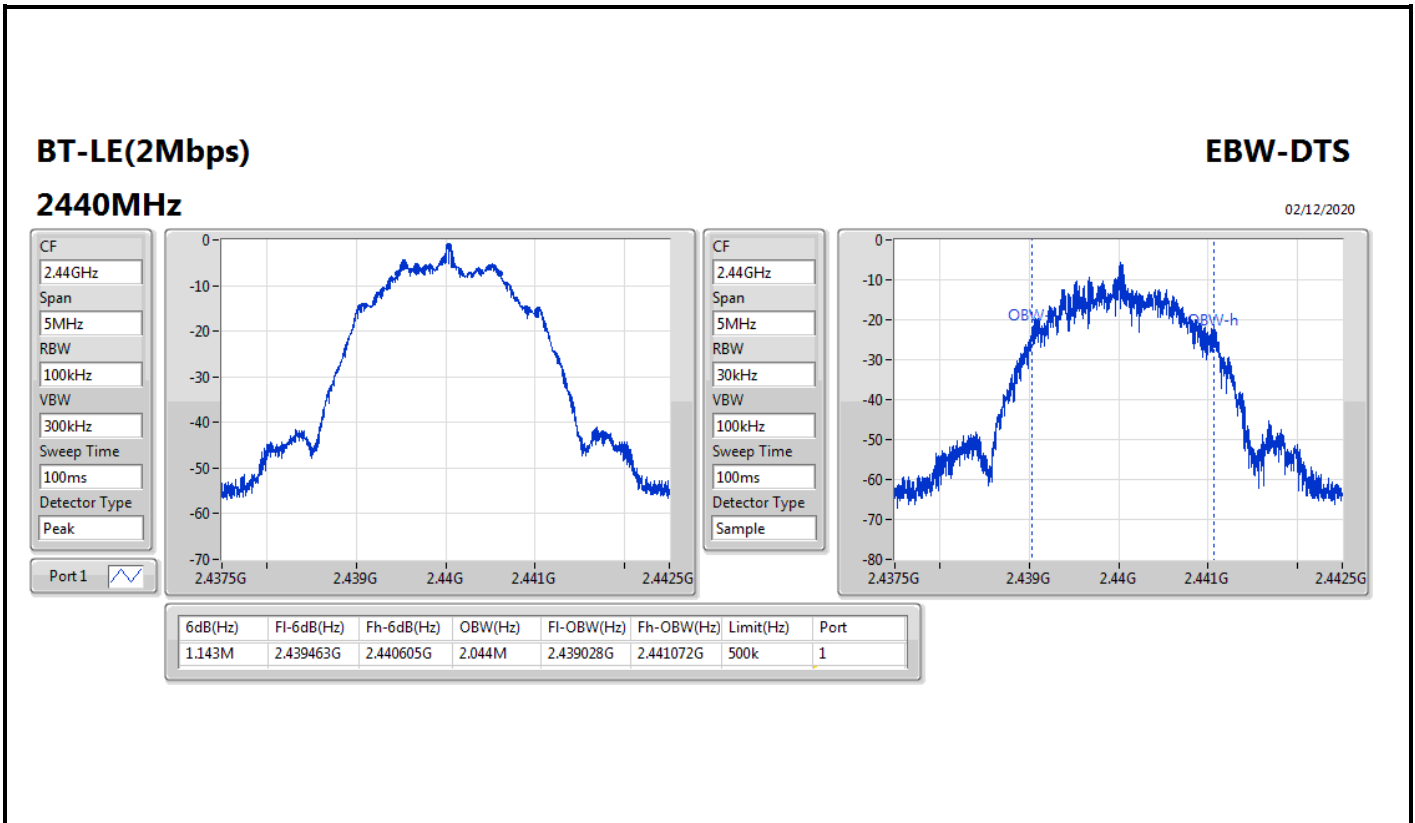
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	500k	663.75k	1.026M
2440MHz_TnomVnom-DTS	Pass	500k	662.5k	1.032M
2480MHz_TnomVnom-DTS	Pass	500k	662.5k	1.029M
BT-LE(2Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	500k	1.135M	2.044M
2440MHz_TnomVnom-DTS	Pass	500k	1.143M	2.044M
2480MHz_TnomVnom-DTS	Pass	500k	1.133M	2.044M

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









Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	1.29	0.00135
BT-LE(2Mbps)	1.14	0.00130



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	6.91	0.75	29.09
2440MHz_TnomVnom-DTS	Pass	6.91	-0.66	29.09
2480MHz_TnomVnom-DTS	Pass	6.91	1.29	29.09
BT-LE(2Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	6.91	0.60	29.09
2440MHz_TnomVnom-DTS	Pass	6.91	-0.78	29.09
2480MHz_TnomVnom-DTS	Pass	6.91	1.14	29.09

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-14.17
BT-LE(2Mbps)	-17.93

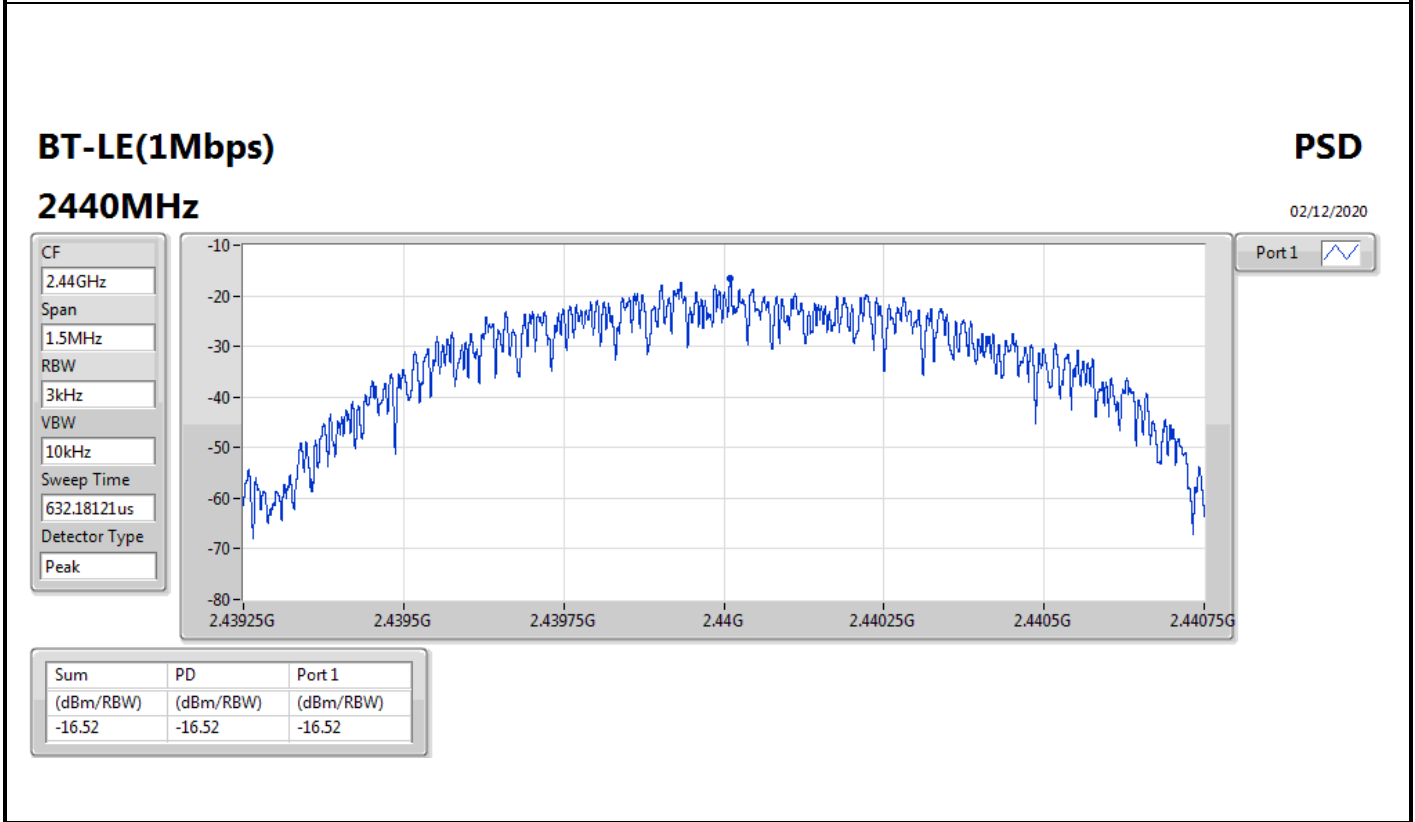
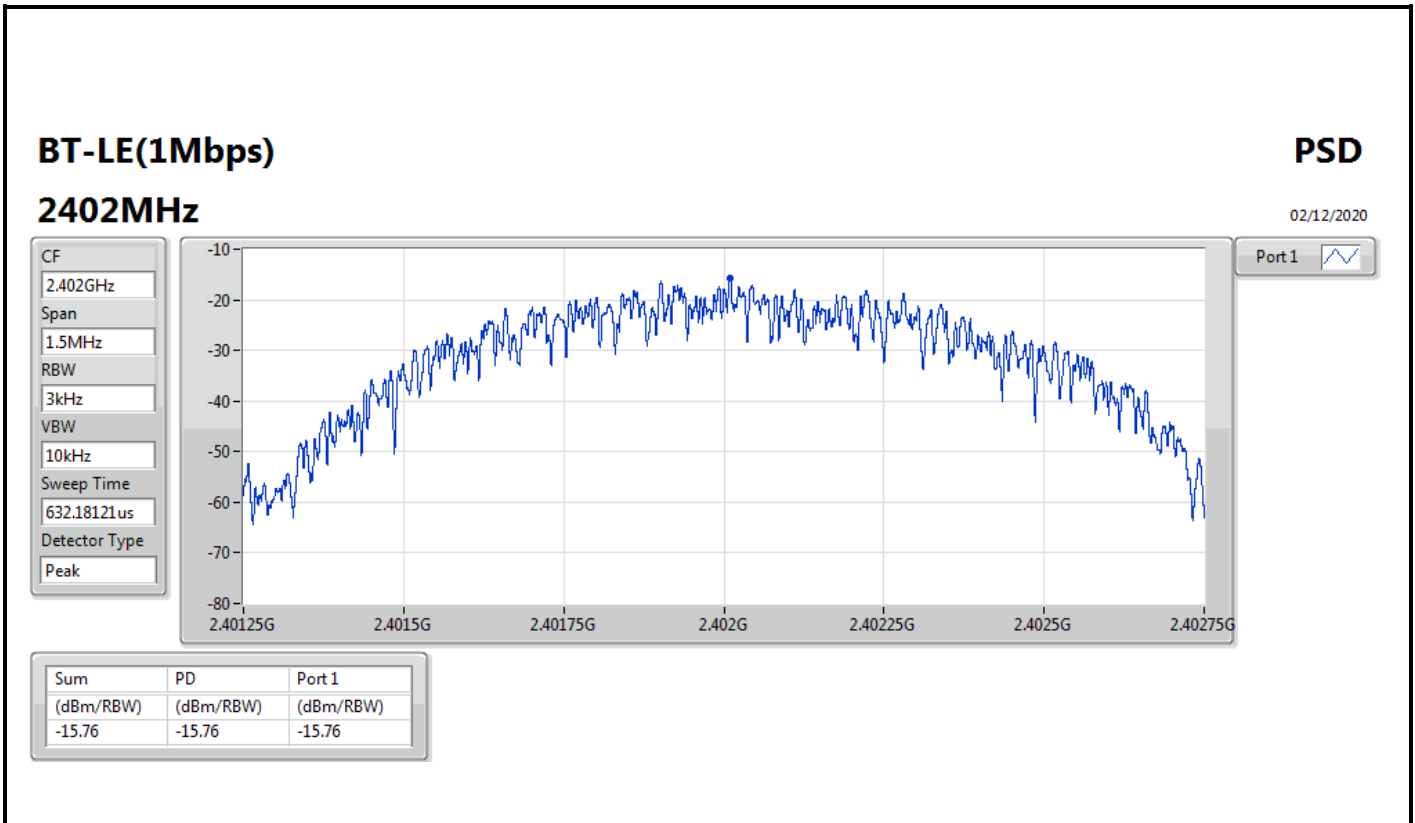
RBW = 3kHz;



Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	6.91	-15.76	7.09
2440MHz_TnomVnom-DTS	Pass	6.91	-16.52	7.09
2480MHz_TnomVnom-DTS	Pass	6.91	-14.17	7.09
BT-LE(2Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	6.91	-18.23	7.09
2440MHz_TnomVnom-DTS	Pass	6.91	-19.66	7.09
2480MHz_TnomVnom-DTS	Pass	6.91	-17.93	7.09

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;



BT-LE(1Mbps)

PSD

2480MHz

02/12/2020

CF
2.48GHz

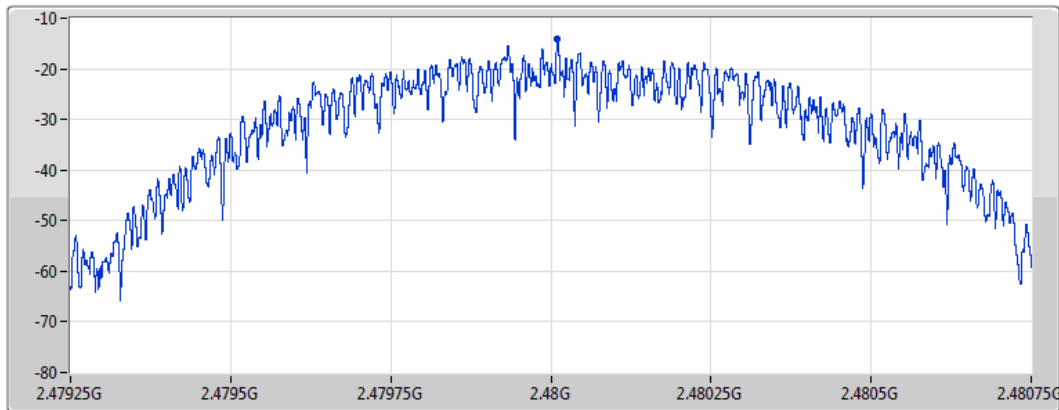
Span
1.5MHz


RBW
3kHz

VBW
10kHz

Sweep Time
632.18121us

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.17	-14.17	-14.17

BT-LE(2Mbps)

PSD

2402MHz

02/12/2020

CF
2.402GHz

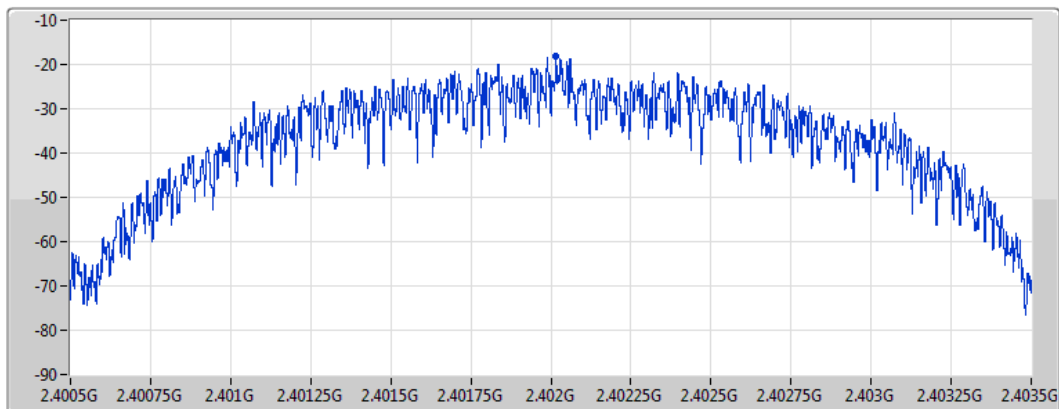
Span
3MHz


RBW
3kHz

VBW
10kHz

Sweep Time
632.01845us

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-18.23	-18.23	-18.23

BT-LE(2Mbps)

PSD

2440MHz

02/12/2020

CF
2.44GHz

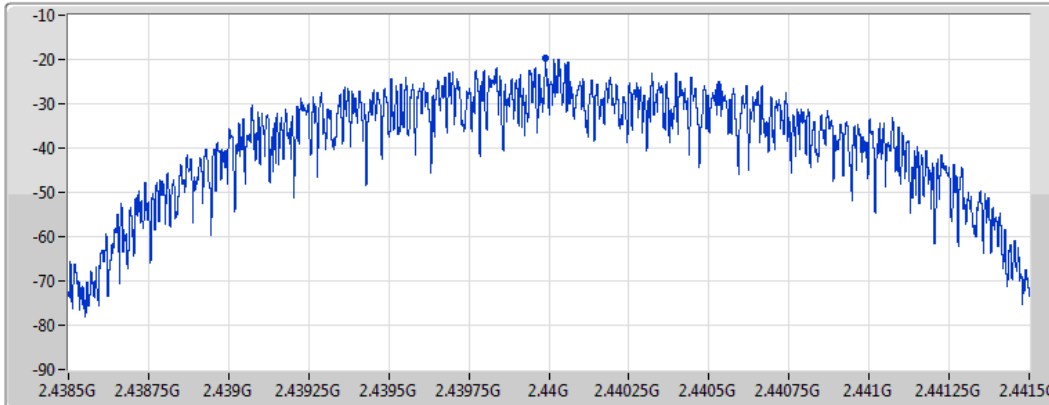
Span
3MHz


RBW
3kHz

VBW
10kHz

Sweep Time
632.01845us

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-19.66	-19.66	-19.66

BT-LE(2Mbps)

PSD

2480MHz

02/12/2020

CF
2.48GHz

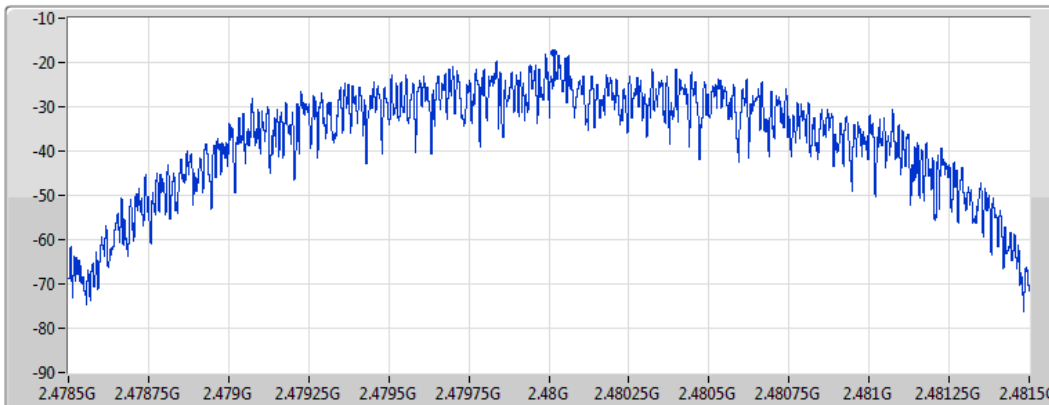
Span
3MHz


RBW
3kHz

VBW
10kHz

Sweep Time
632.01845us

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-17.93	-17.93	-17.93



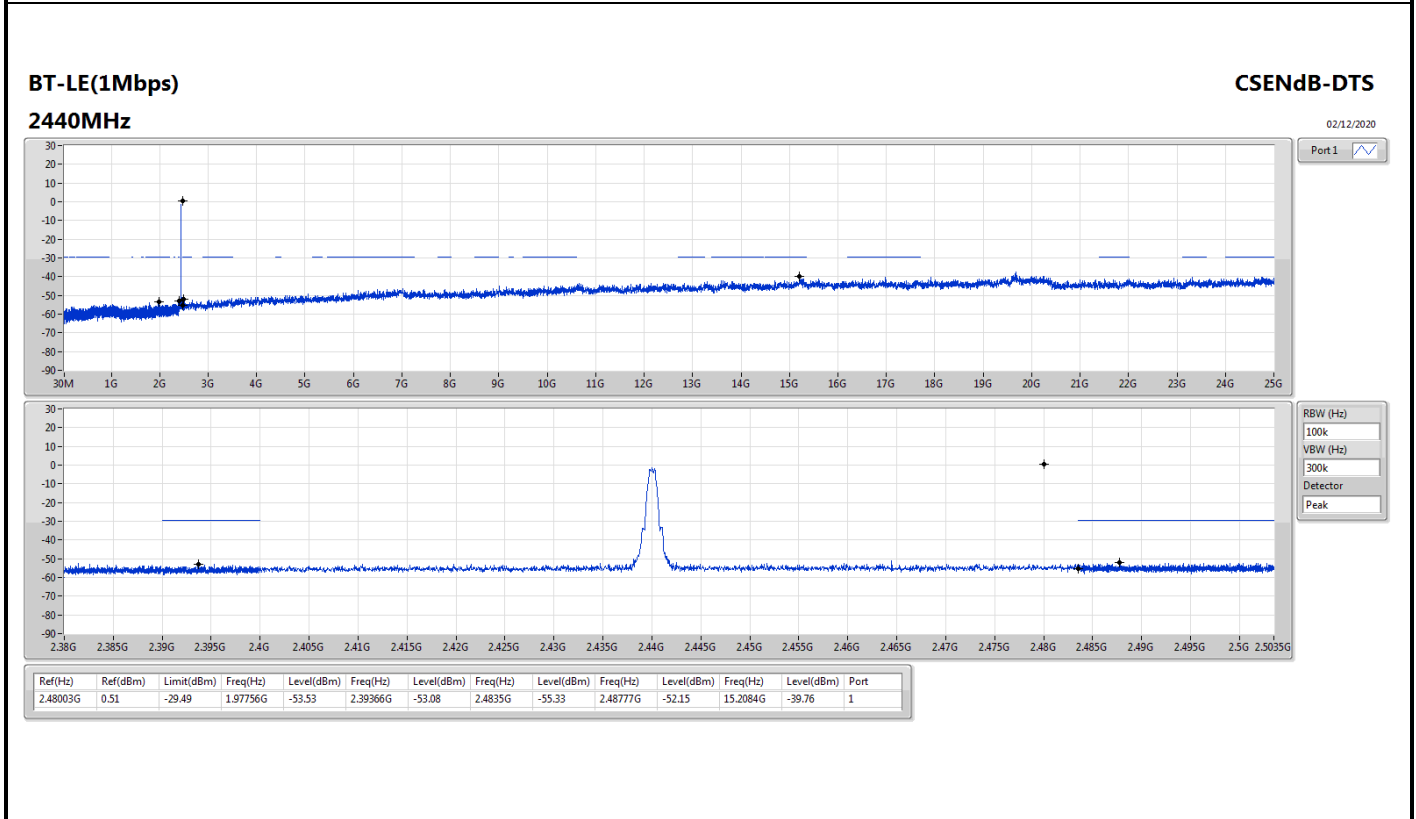
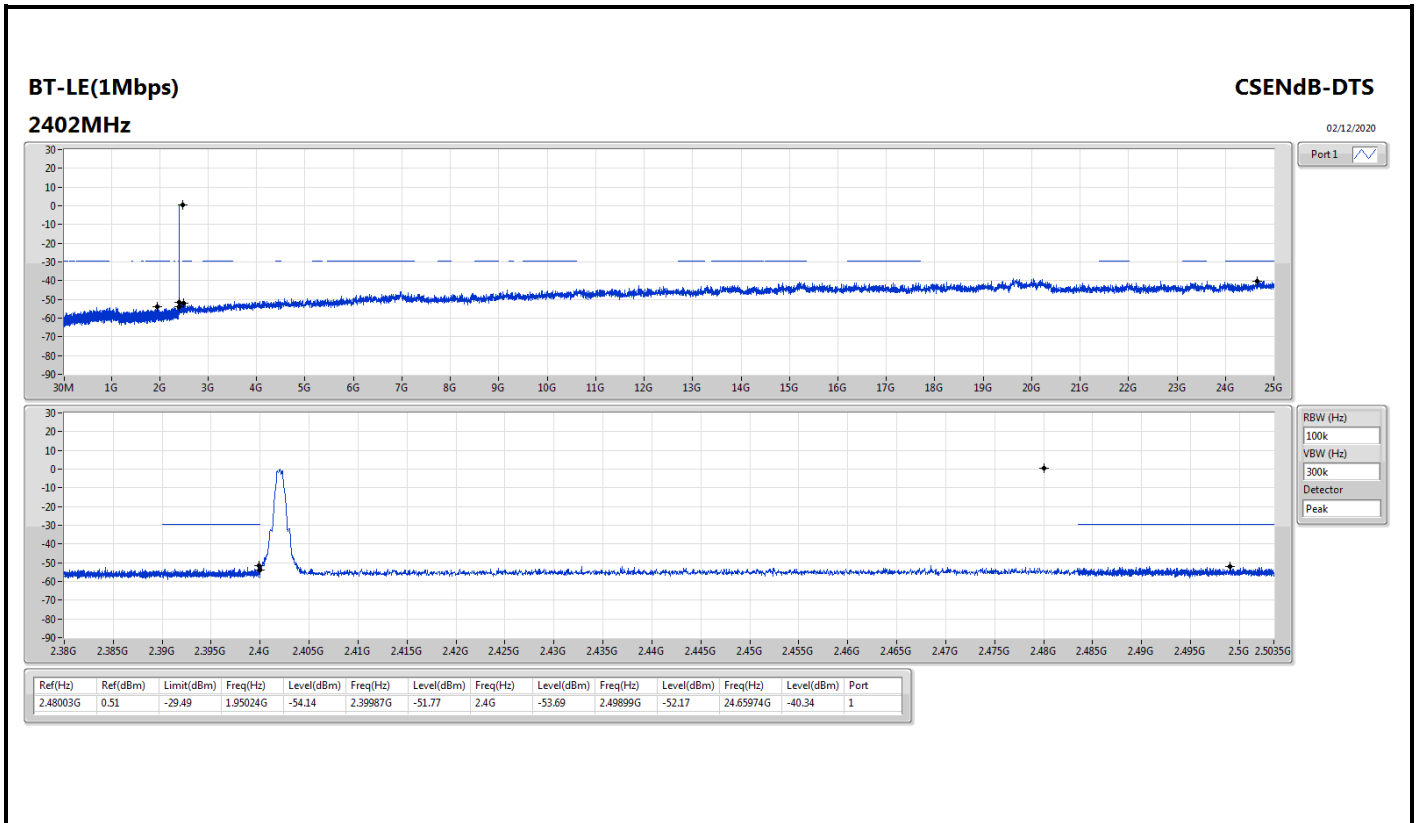
Summary

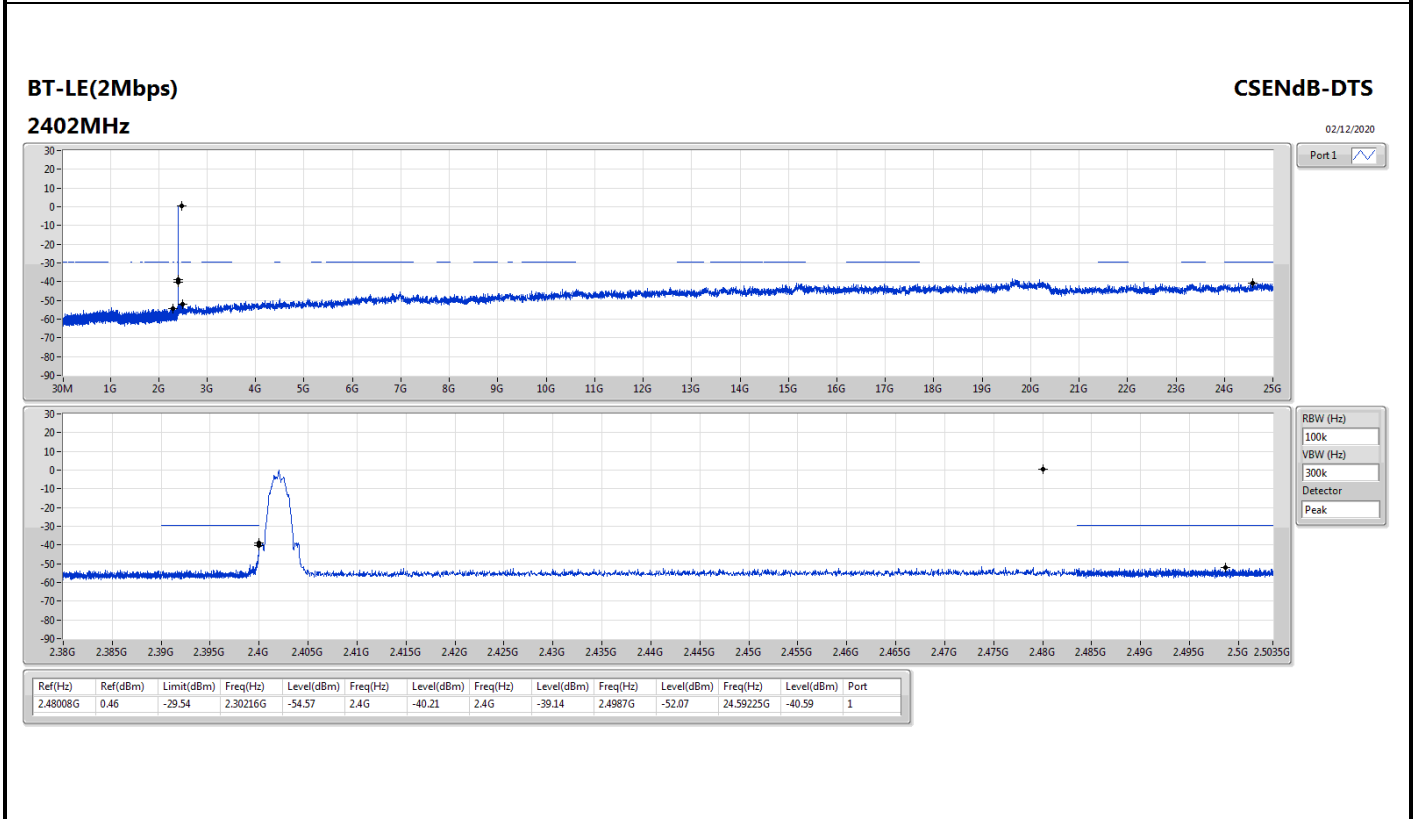
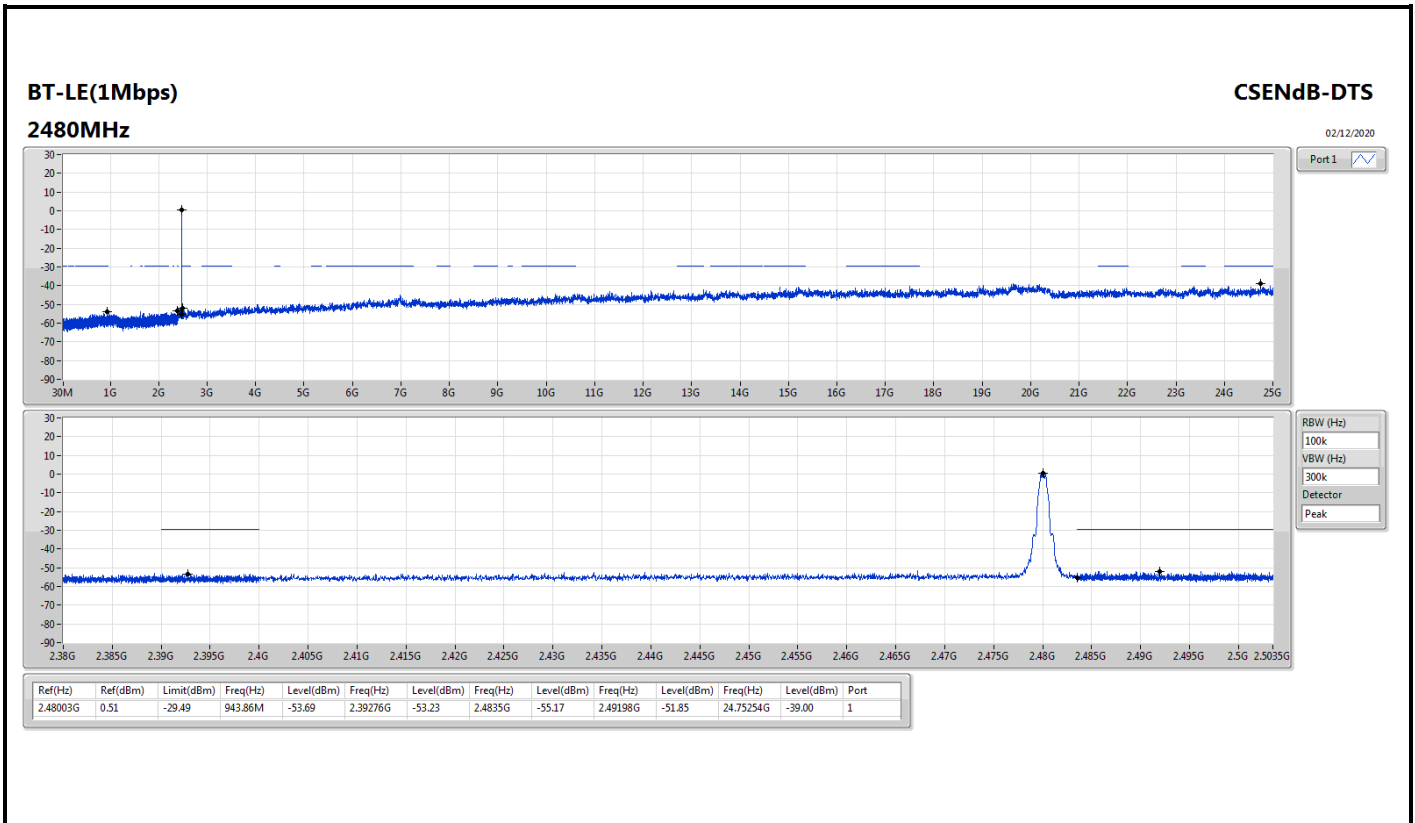
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.48003G	0.51	-29.49	1.95024G	-54.14	2.39987G	-51.77	2.4G	-53.69	2.49899G	-52.17	24.65974G	-40.34	1
BT-LE(2Mbps)	Pass	2.48008G	0.46	-29.54	2.30216G	-54.57	2.4G	-40.21	2.4G	-39.14	2.4987G	-52.07	24.59225G	-40.59	1

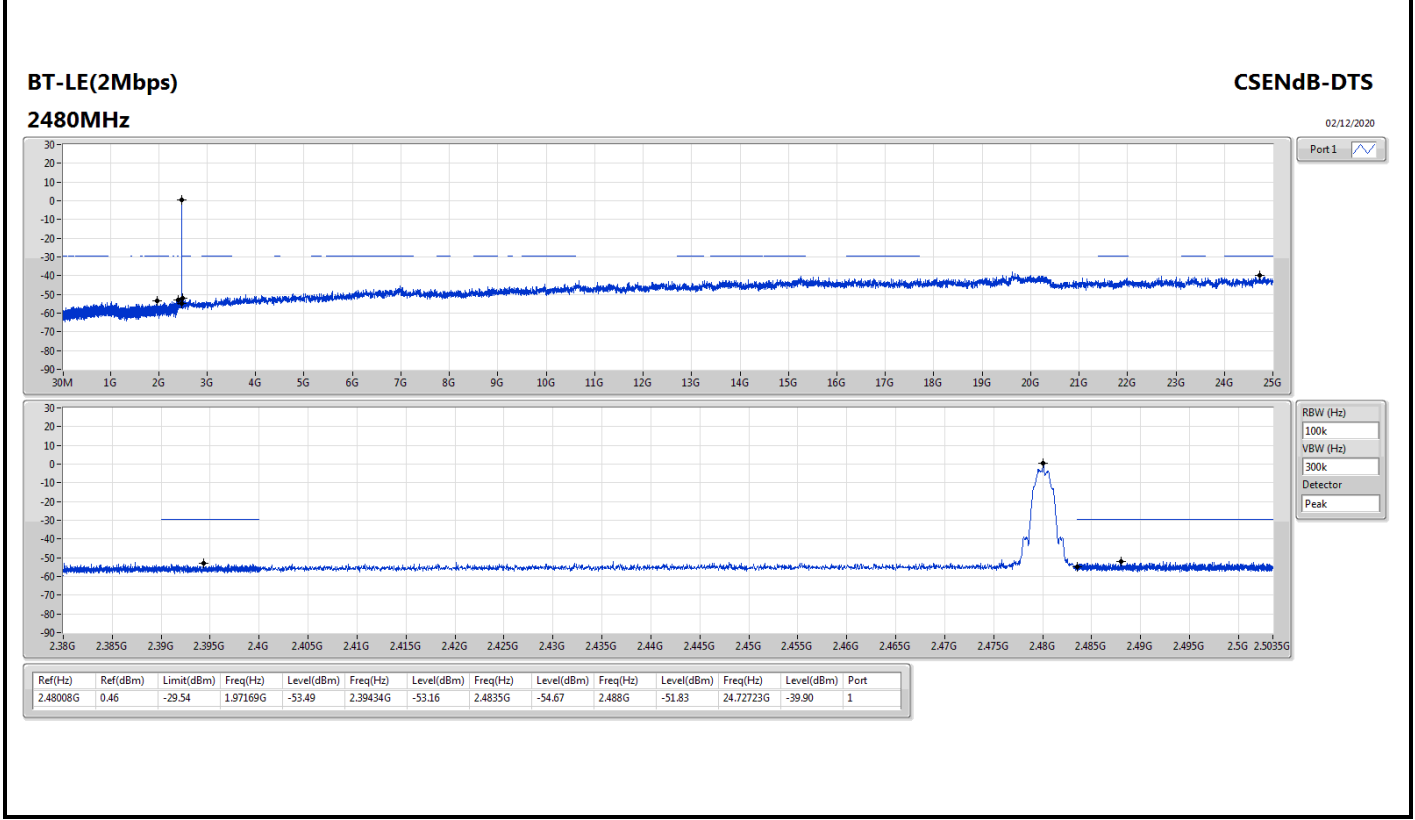
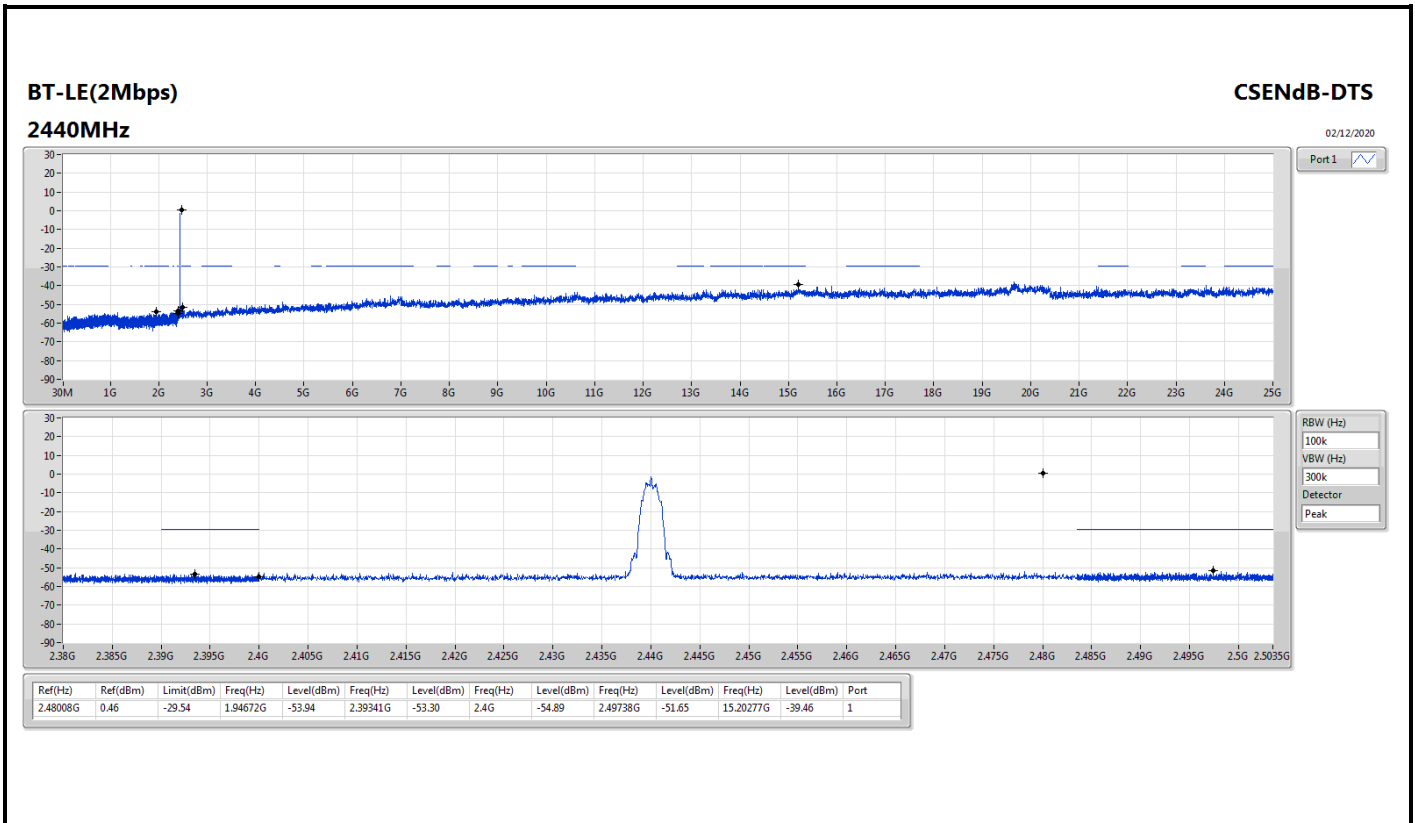


Result

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-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	2.48003G	0.51	-29.49	1.95024G	-54.14	2.39987G	-51.77	2.4G	-53.69	2.49899G	-52.17	24.65974G	-40.34	1
2440MHz_TnomVnom-DTS	Pass	2.48003G	0.51	-29.49	1.97756G	-53.53	2.39366G	-53.08	2.4835G	-55.33	2.48777G	-52.15	15.2084G	-39.76	1
2480MHz_TnomVnom-DTS	Pass	2.48003G	0.51	-29.49	943.86M	-53.69	2.39276G	-53.23	2.4835G	-55.17	2.49198G	-51.85	24.75254G	-39.00	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	2.48008G	0.46	-29.54	2.30216G	-54.57	2.4G	-40.21	2.4G	-39.14	2.4987G	-52.07	24.59225G	-40.59	1
2440MHz_TnomVnom-DTS	Pass	2.48008G	0.46	-29.54	1.94672G	-53.94	2.39341G	-53.30	2.4G	-54.89	2.49738G	-51.65	15.20277G	-39.46	1
2480MHz_TnomVnom-DTS	Pass	2.48008G	0.46	-29.54	1.97169G	-53.49	2.39434G	-53.16	2.4835G	-54.67	2.488G	-51.83	24.72723G	-39.90	1









Summary

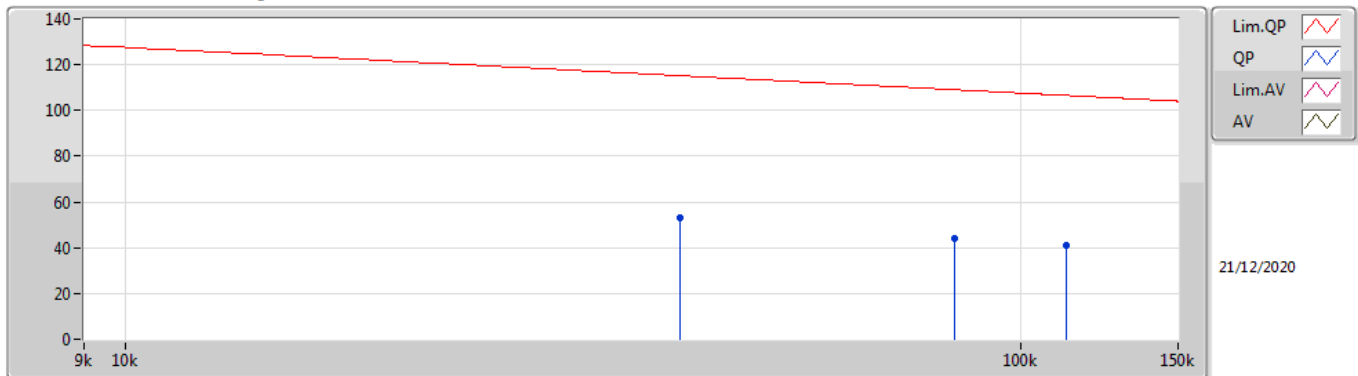
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	QP	293.84M	42.76	46.00	-3.24	3	Horizontal	2	1.00	-



Result

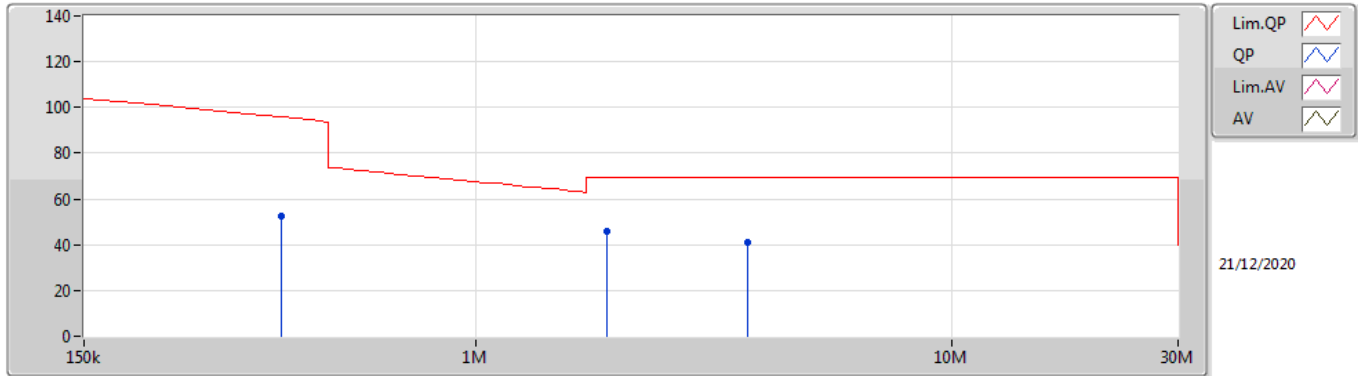
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	41.712k	53.28	115.19	-61.91	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	84.576k	43.94	109.05	-65.11	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	112.494k	41.00	106.57	-65.57	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	388.8k	52.35	95.80	-43.45	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	1.881M	45.64	69.50	-23.86	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	3.732M	40.86	69.50	-28.64	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	144.46M	34.95	43.50	-8.55	3	Vertical	360	1.00	-
2440MHz	Pass	PK	229.82M	35.63	46.00	-10.37	3	Vertical	360	1.00	-
2440MHz	Pass	PK	293.84M	38.44	46.00	-7.56	3	Vertical	360	1.00	-
2440MHz	Pass	PK	319.06M	37.69	46.00	-8.31	3	Vertical	360	1.00	-
2440MHz	Pass	PK	697.36M	38.56	46.00	-7.44	3	Vertical	360	1.00	-
2440MHz	Pass	PK	984.48M	42.87	54.00	-11.13	3	Vertical	360	1.00	-
2440MHz	Pass	PK	227.88M	38.99	46.00	-7.01	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	311.3M	42.01	46.00	-3.99	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	367.56M	41.90	46.00	-4.10	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	714.82M	39.28	46.00	-6.72	3	Horizontal	0	1.00	-
2440MHz	Pass	QP	30M	33.94	40.00	-6.06	3	Horizontal	243	1.53	-
2440MHz	Pass	QP	293.84M	42.76	46.00	-3.24	3	Horizontal	2	1.00	-

BT-LE(2Mbps)
2440MHz_Adapter



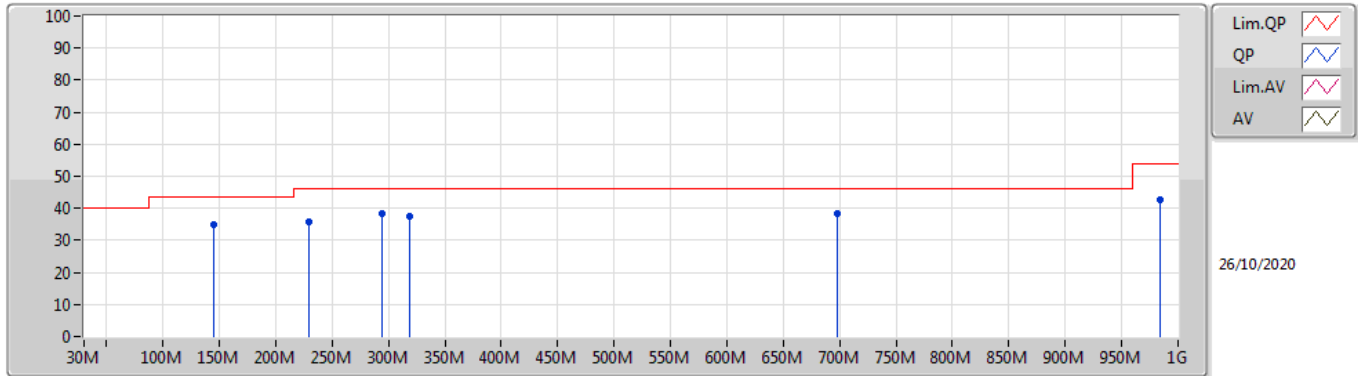
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	41.712k	53.28	115.19	-61.91	21.25	3	Horizontal	0	1.00	-	32.03	21.20	0.05	-
PK	84.576k	43.94	109.05	-65.11	20.28	3	Horizontal	0	1.00	-	23.66	20.22	0.06	-
PK	112.494k	41.00	106.57	-65.57	20.01	3	Horizontal	0	1.00	-	20.99	19.95	0.06	-

BT-LE(2Mbps)
2440MHz_Adapter



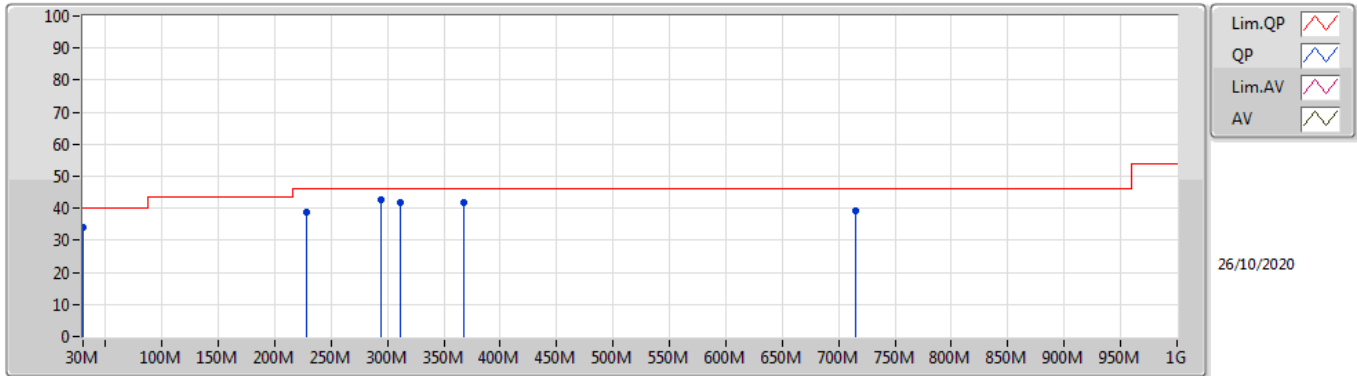
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	388.8k	52.35	95.80	-43.45	20.55	3	Horizontal	360	1.00	-	31.80	20.45	0.10	-
PK	1.881M	45.64	69.50	-23.86	20.26	3	Horizontal	360	1.00	-	25.38	20.06	0.20	-
PK	3.732M	40.86	69.50	-28.64	20.46	3	Horizontal	360	1.00	-	20.40	20.18	0.28	-

BT-LE(2Mbps)
2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	144.46M	34.95	43.50	-8.55	-9.34	3	Vertical	360	1.00	-	44.29	15.95	1.92	27.21
PK	229.82M	35.63	46.00	-10.37	-9.03	3	Vertical	360	1.00	-	44.66	15.28	2.48	26.79
PK	293.84M	38.44	46.00	-7.56	-5.52	3	Vertical	360	1.00	-	43.96	18.28	2.86	26.66
PK	319.06M	37.69	46.00	-8.31	-4.97	3	Vertical	360	1.00	-	42.66	18.81	2.98	26.76
PK	697.36M	38.56	46.00	-7.44	0.56	3	Vertical	360	1.00	-	38.00	24.16	4.39	27.99
PK	984.48M	42.87	54.00	-11.13	4.52	3	Vertical	360	1.00	-	38.35	26.30	5.40	27.18

BT-LE(2Mbps)
2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	227.88M	38.99	46.00	-7.01	-9.24	3	Horizontal	0	1.00	-	48.23	15.09	2.47	26.80
PK	311.3M	42.01	46.00	-3.99	-5.01	3	Horizontal	0	1.00	-	47.02	18.76	2.95	26.72
PK	367.56M	41.90	46.00	-4.10	-3.92	3	Horizontal	0	1.00	-	45.82	19.96	3.17	27.05
PK	714.82M	39.28	46.00	-6.72	0.73	3	Horizontal	0	1.00	-	38.55	24.26	4.46	27.99
QP	30M	33.94	40.00	-6.06	-3.36	3	Horizontal	243	1.53	-	37.30	23.32	0.90	27.58
QP	293.84M	42.76	46.00	-3.24	-5.52	3	Horizontal	2	1.00	-	48.28	18.28	2.86	26.66



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-LE(1Mbps)	Pass	AV	2.4956G	49.09	54.00	-4.91	3	Horizontal	357	2.80	-
BT-LE(2Mbps)	Pass	AV	2.4964G	48.29	54.00	-5.71	3	Vertical	347	1.55	-



Result

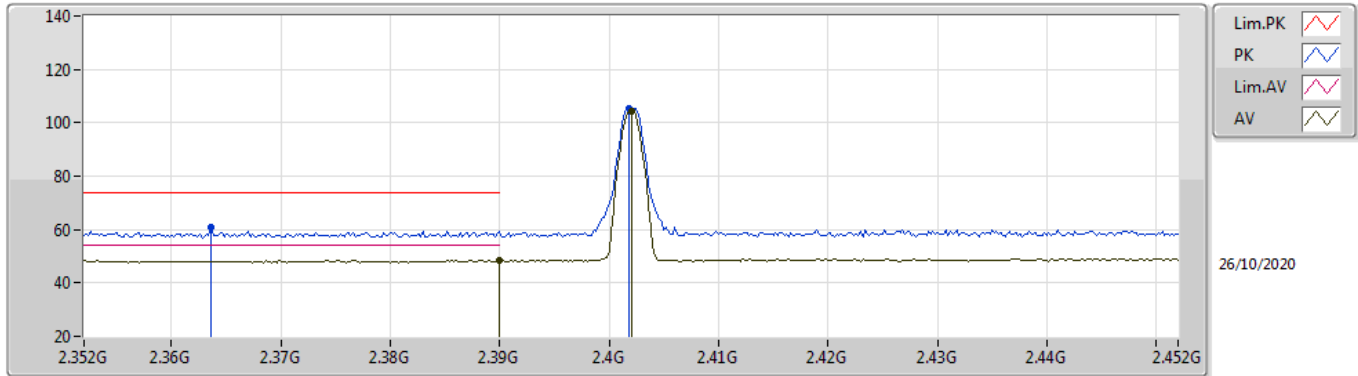
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.39G	48.50	54.00	-5.50	3	Vertical	346	2.03	-
2402MHz	Pass	AV	2.402G	104.53	Inf	-Inf	3	Vertical	346	2.03	-
2402MHz	Pass	PK	2.3636G	60.63	74.00	-13.37	3	Vertical	346	2.03	-
2402MHz	Pass	PK	2.4018G	105.45	Inf	-Inf	3	Vertical	346	2.03	-
2402MHz	Pass	AV	2.3834G	48.43	54.00	-5.57	3	Horizontal	360	2.73	-
2402MHz	Pass	AV	2.402G	103.38	Inf	-Inf	3	Horizontal	360	2.73	-
2402MHz	Pass	PK	2.382G	59.77	74.00	-14.23	3	Horizontal	360	2.73	-
2402MHz	Pass	PK	2.4022G	104.35	Inf	-Inf	3	Horizontal	360	2.73	-
2402MHz	Pass	AV	4.80439G	35.94	54.00	-18.06	3	Vertical	120	1.83	-
2402MHz	Pass	PK	4.8047G	47.71	74.00	-26.29	3	Vertical	120	1.83	-
2402MHz	Pass	AV	4.80367G	37.45	54.00	-16.55	3	Horizontal	0	2.25	-
2402MHz	Pass	PK	4.80377G	48.10	74.00	-25.90	3	Horizontal	0	2.25	-
2440MHz	Pass	AV	2.3428G	48.54	54.00	-5.46	3	Vertical	345	1.42	-
2440MHz	Pass	AV	2.44G	102.31	Inf	-Inf	3	Vertical	345	1.42	-
2440MHz	Pass	AV	2.488G	49.08	54.00	-4.92	3	Vertical	345	1.42	-
2440MHz	Pass	PK	2.3892G	59.41	74.00	-14.59	3	Vertical	345	1.42	-
2440MHz	Pass	PK	2.4396G	103.22	Inf	-Inf	3	Vertical	345	1.42	-
2440MHz	Pass	PK	2.4876G	59.78	74.00	-14.22	3	Vertical	345	1.42	-
2440MHz	Pass	AV	2.3448G	48.51	54.00	-5.49	3	Horizontal	356	2.93	-
2440MHz	Pass	AV	2.44G	102.79	Inf	-Inf	3	Horizontal	356	2.93	-
2440MHz	Pass	AV	2.4912G	49.08	54.00	-4.92	3	Horizontal	356	2.93	-
2440MHz	Pass	PK	2.3856G	59.66	74.00	-14.34	3	Horizontal	356	2.93	-
2440MHz	Pass	PK	2.4396G	103.71	Inf	-Inf	3	Horizontal	356	2.93	-
2440MHz	Pass	PK	2.4928G	59.99	74.00	-14.01	3	Horizontal	356	2.93	-
2440MHz	Pass	AV	4.88053G	35.78	54.00	-18.22	3	Vertical	0	1.44	-
2440MHz	Pass	PK	4.87975G	46.98	74.00	-27.02	3	Vertical	0	1.44	-
2440MHz	Pass	AV	4.87962G	36.78	54.00	-17.22	3	Horizontal	0	2.40	-
2440MHz	Pass	PK	4.88027G	47.43	74.00	-26.57	3	Horizontal	0	2.40	-
2480MHz	Pass	AV	2.48G	103.76	Inf	-Inf	3	Vertical	345	1.56	-
2480MHz	Pass	AV	2.4836G	49.08	54.00	-4.92	3	Vertical	345	1.56	-
2480MHz	Pass	PK	2.4798G	104.65	Inf	-Inf	3	Vertical	345	1.56	-
2480MHz	Pass	PK	2.487G	60.64	74.00	-13.36	3	Vertical	345	1.56	-
2480MHz	Pass	AV	2.48G	104.68	Inf	-Inf	3	Horizontal	357	2.80	-
2480MHz	Pass	AV	2.4956G	49.09	54.00	-4.91	3	Horizontal	357	2.80	-
2480MHz	Pass	PK	2.4798G	105.57	Inf	-Inf	3	Horizontal	357	2.80	-
2480MHz	Pass	PK	2.484G	61.27	74.00	-12.73	3	Horizontal	357	2.80	-
2480MHz	Pass	AV	4.95972G	36.85	54.00	-17.15	3	Vertical	236	2.06	-
2480MHz	Pass	PK	4.95948G	47.91	74.00	-26.09	3	Vertical	236	2.06	-
2480MHz	Pass	AV	4.95961G	37.64	54.00	-16.36	3	Horizontal	360	2.29	-
2480MHz	Pass	PK	4.95984G	48.36	74.00	-25.64	3	Horizontal	360	2.29	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3886G	47.68	54.00	-6.32	3	Vertical	347	1.71	-
2402MHz	Pass	AV	2.402G	104.07	Inf	-Inf	3	Vertical	347	1.71	-
2402MHz	Pass	PK	2.3698G	59.88	74.00	-14.12	3	Vertical	347	1.71	-
2402MHz	Pass	PK	2.402G	105.24	Inf	-Inf	3	Vertical	347	1.71	-
2402MHz	Pass	AV	2.3538G	47.89	54.00	-6.11	3	Horizontal	360	2.74	-
2402MHz	Pass	AV	2.402G	103.31	Inf	-Inf	3	Horizontal	360	2.74	-
2402MHz	Pass	PK	2.3892G	59.62	74.00	-14.38	3	Horizontal	360	2.74	-
2402MHz	Pass	PK	2.4022G	104.32	Inf	-Inf	3	Horizontal	360	2.74	-
2402MHz	Pass	AV	4.80419G	34.95	54.00	-19.05	3	Vertical	360	1.46	-
2402MHz	Pass	PK	4.80391G	47.16	74.00	-26.84	3	Vertical	360	1.46	-
2402MHz	Pass	AV	4.8038G	36.51	54.00	-17.49	3	Horizontal	348	2.30	-
2402MHz	Pass	PK	4.80449G	48.87	74.00	-25.13	3	Horizontal	348	2.30	-
2440MHz	Pass	AV	2.388G	47.95	54.00	-6.05	3	Vertical	347	1.55	-
2440MHz	Pass	AV	2.44G	102.53	Inf	-Inf	3	Vertical	347	1.55	-
2440MHz	Pass	AV	2.4964G	48.29	54.00	-5.71	3	Vertical	347	1.55	-
2440MHz	Pass	PK	2.368G	59.52	74.00	-14.48	3	Vertical	347	1.55	-
2440MHz	Pass	PK	2.4396G	103.48	Inf	-Inf	3	Vertical	347	1.55	-
2440MHz	Pass	PK	2.4868G	59.64	74.00	-14.36	3	Vertical	347	1.55	-
2440MHz	Pass	AV	2.34G	47.77	54.00	-6.23	3	Horizontal	357	2.60	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.44G	102.48	Inf	-Inf	3	Horizontal	357	2.60	-
2440MHz	Pass	AV	2.4968G	48.29	54.00	-5.71	3	Horizontal	357	2.60	-
2440MHz	Pass	PK	2.3408G	59.77	74.00	-14.23	3	Horizontal	357	2.60	-
2440MHz	Pass	PK	2.44G	103.50	Inf	-Inf	3	Horizontal	357	2.60	-
2440MHz	Pass	PK	2.4888G	59.40	74.00	-14.60	3	Horizontal	357	2.60	-
2440MHz	Pass	AV	4.8796G	35.28	54.00	-18.72	3	Vertical	360	1.69	-
2440MHz	Pass	PK	4.87989G	47.52	74.00	-26.48	3	Vertical	360	1.69	-
2440MHz	Pass	AV	4.88001G	36.01	54.00	-17.99	3	Horizontal	360	2.24	-
2440MHz	Pass	PK	4.88068G	47.43	74.00	-26.57	3	Horizontal	360	2.24	-
2480MHz	Pass	AV	2.48G	103.77	Inf	-Inf	3	Vertical	345	1.55	-
2480MHz	Pass	AV	2.4856G	48.29	54.00	-5.71	3	Vertical	345	1.55	-
2480MHz	Pass	PK	2.4802G	104.66	Inf	-Inf	3	Vertical	345	1.55	-
2480MHz	Pass	PK	2.4968G	60.01	74.00	-13.99	3	Vertical	345	1.55	-
2480MHz	Pass	AV	2.48G	104.65	Inf	-Inf	3	Horizontal	357	2.81	-
2480MHz	Pass	AV	2.4956G	48.29	54.00	-5.71	3	Horizontal	357	2.81	-
2480MHz	Pass	PK	2.48G	105.67	Inf	-Inf	3	Horizontal	357	2.81	-
2480MHz	Pass	PK	2.493G	59.92	74.00	-14.08	3	Horizontal	357	2.81	-
2480MHz	Pass	AV	4.96029G	36.73	54.00	-17.27	3	Vertical	234	1.93	-
2480MHz	Pass	PK	4.9604G	48.20	74.00	-25.80	3	Vertical	234	1.93	-
2480MHz	Pass	AV	4.96016G	36.25	54.00	-17.75	3	Horizontal	360	1.79	-
2480MHz	Pass	PK	4.95941G	48.42	74.00	-25.58	3	Horizontal	360	1.79	-

BT-LE(1Mbps)

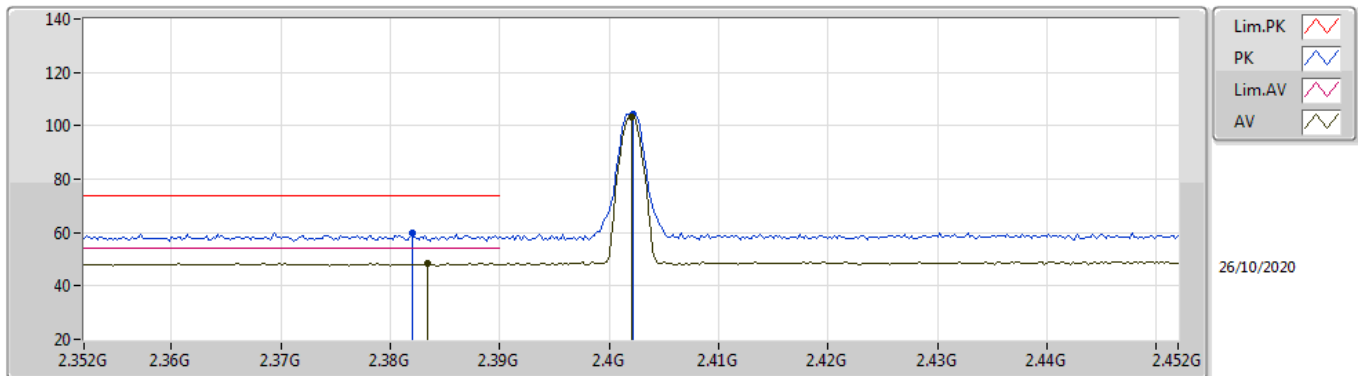
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.50	54.00	-5.50	31.91	3	Vertical	346	2.03	-	16.59	27.62	4.29	-
AV	2.402G	104.53	Inf	-Inf	31.90	3	Vertical	346	2.03	-	72.63	27.60	4.30	-
PK	2.3636G	60.63	74.00	-13.37	31.93	3	Vertical	346	2.03	-	28.70	27.67	4.26	-
PK	2.4018G	105.45	Inf	-Inf	31.90	3	Vertical	346	2.03	-	73.55	27.60	4.30	-

BT-LE(1Mbps)

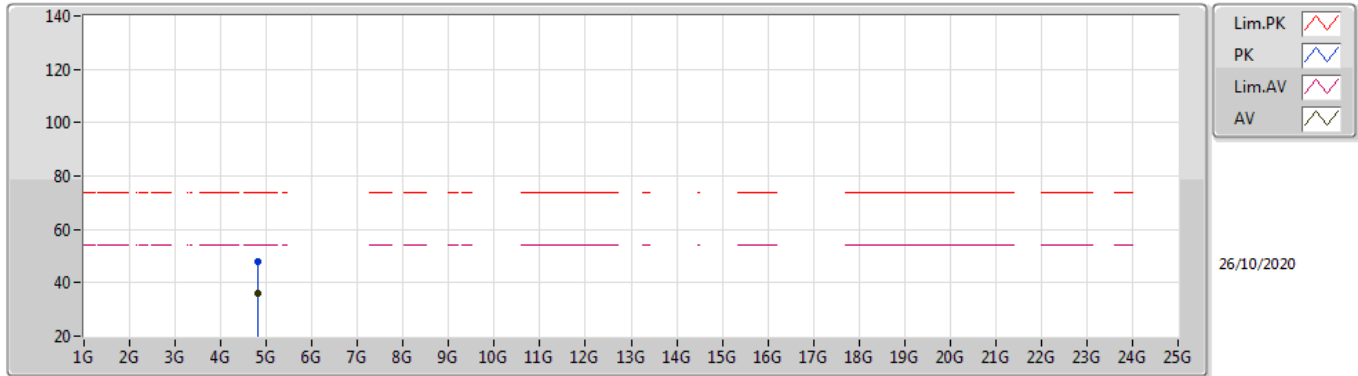
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3834G	48.43	54.00	-5.57	31.91	3	Horizontal	360	2.73	-	16.52	27.63	4.28	-
AV	2.402G	103.38	Inf	-Inf	31.90	3	Horizontal	360	2.73	-	71.48	27.60	4.30	-
PK	2.382G	59.77	74.00	-14.23	31.92	3	Horizontal	360	2.73	-	27.85	27.64	4.28	-
PK	2.4022G	104.35	Inf	-Inf	31.90	3	Horizontal	360	2.73	-	72.45	27.60	4.30	-

BT-LE(1Mbps)

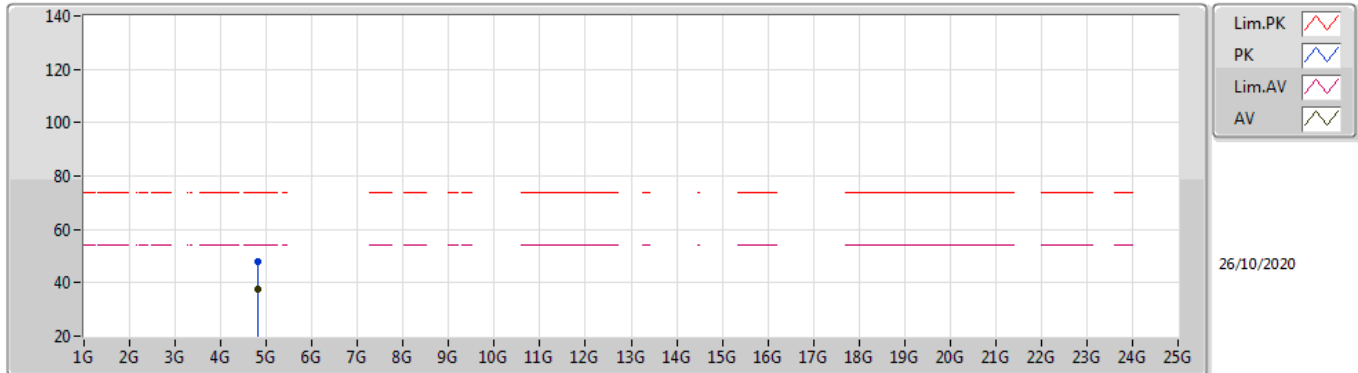
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80439G	35.94	54.00	-18.06	8.37	3	Vertical	120	1.83	-	27.57	31.10	6.50	29.23
PK	4.8047G	47.71	74.00	-26.29	8.37	3	Vertical	120	1.83	-	39.34	31.10	6.50	29.23

BT-LE(1Mbps)

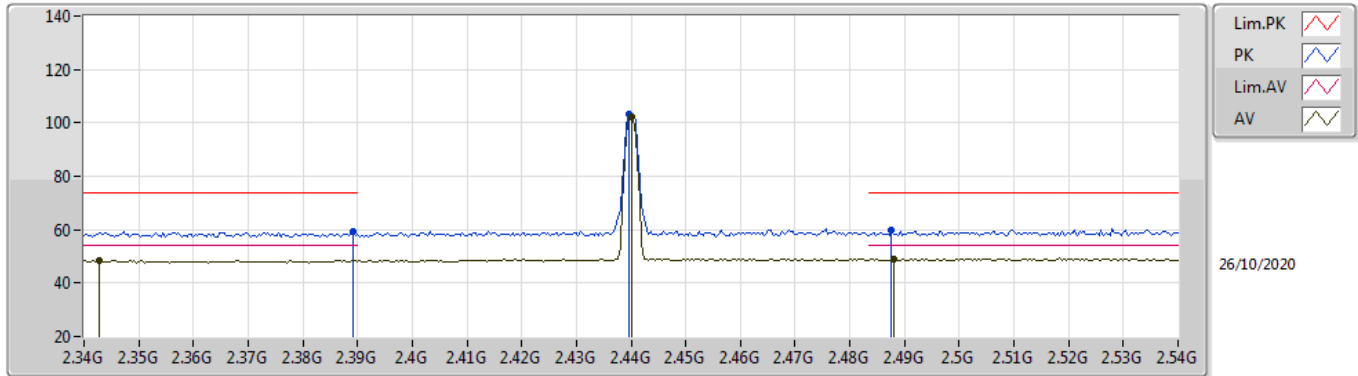
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80367G	37.45	54.00	-16.55	8.37	3	Horizontal	0	2.25	-	29.08	31.10	6.50	29.23
PK	4.80377G	48.10	74.00	-25.90	8.37	3	Horizontal	0	2.25	-	39.73	31.10	6.50	29.23

BT-LE(1Mbps)

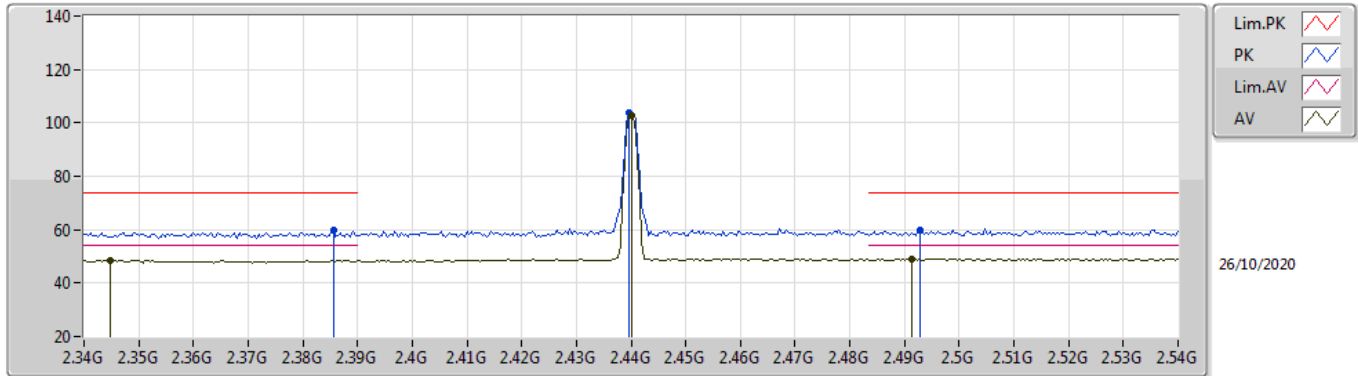
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3428G	48.54	54.00	-5.46	31.97	3	Vertical	345	1.42	-	16.57	27.73	4.24	-
AV	2.44G	102.31	Inf	-Inf	31.86	3	Vertical	345	1.42	-	70.45	27.52	4.34	-
AV	2.488G	49.08	54.00	-4.92	31.81	3	Vertical	345	1.42	-	17.27	27.42	4.39	-
PK	2.3892G	59.41	74.00	-14.59	31.91	3	Vertical	345	1.42	-	27.50	27.62	4.29	-
PK	2.4396G	103.22	Inf	-Inf	31.86	3	Vertical	345	1.42	-	71.36	27.52	4.34	-
PK	2.4876G	59.78	74.00	-14.22	31.81	3	Vertical	345	1.42	-	27.97	27.42	4.39	-

BT-LE(1Mbps)

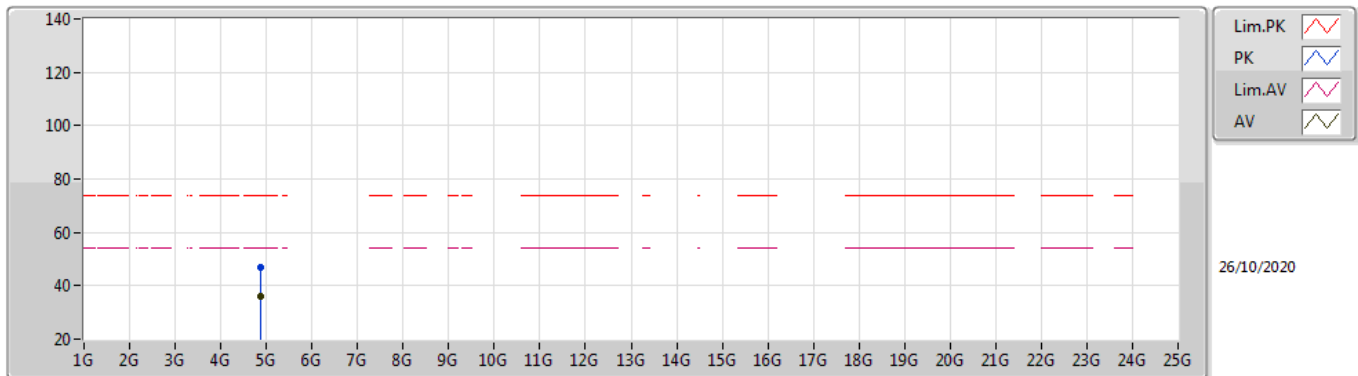
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3448G	48.51	54.00	-5.49	31.96	3	Horizontal	356	2.93	-	16.55	27.72	4.24	-
AV	2.44G	102.79	Inf	-Inf	31.86	3	Horizontal	356	2.93	-	70.93	27.52	4.34	-
AV	2.4912G	49.08	54.00	-4.92	31.81	3	Horizontal	356	2.93	-	17.27	27.42	4.39	-
PK	2.3856G	59.66	74.00	-14.34	31.92	3	Horizontal	356	2.93	-	27.74	27.63	4.29	-
PK	2.4396G	103.71	Inf	-Inf	31.86	3	Horizontal	356	2.93	-	71.85	27.52	4.34	-
PK	2.4928G	59.99	74.00	-14.01	31.80	3	Horizontal	356	2.93	-	28.19	27.41	4.39	-

BT-LE(1Mbps)

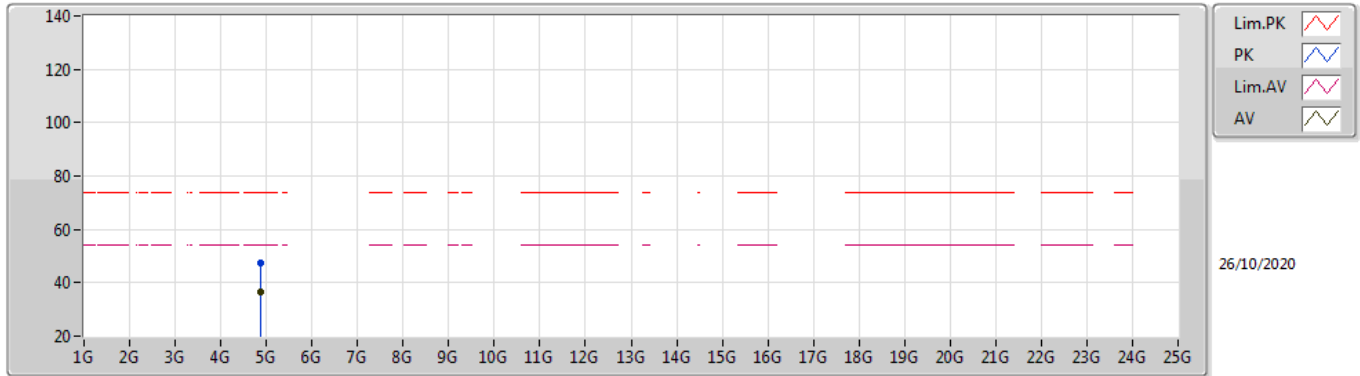
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88053G	35.78	54.00	-18.22	8.47	3	Vertical	0	1.44	-	27.31	31.10	6.58	29.21
PK	4.87975G	46.98	74.00	-27.02	8.47	3	Vertical	0	1.44	-	38.51	31.10	6.58	29.21

BT-LE(1Mbps)

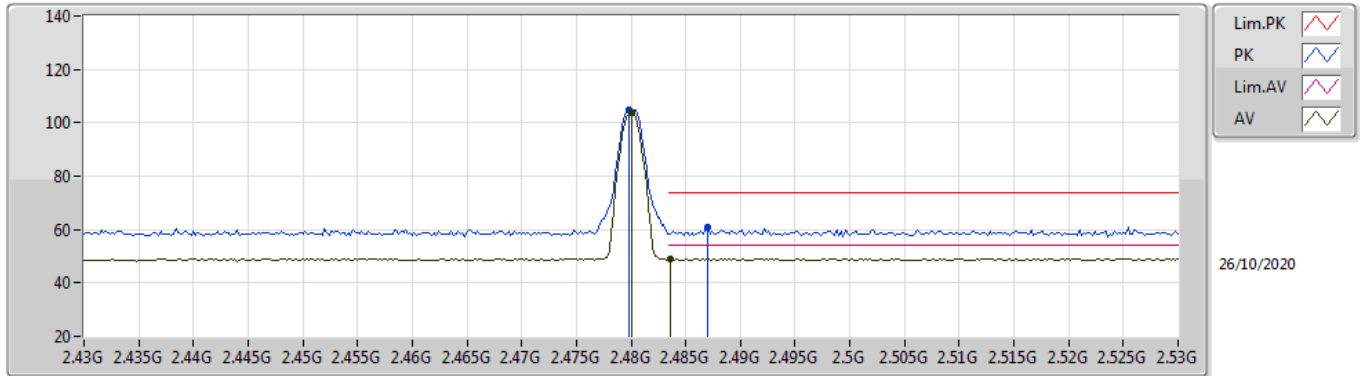
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87962G	36.78	54.00	-17.22	8.47	3	Horizontal	0	2.40	-	28.31	31.10	6.58	29.21
PK	4.88027G	47.43	74.00	-26.57	8.47	3	Horizontal	0	2.40	-	38.96	31.10	6.58	29.21

BT-LE(1Mbps)

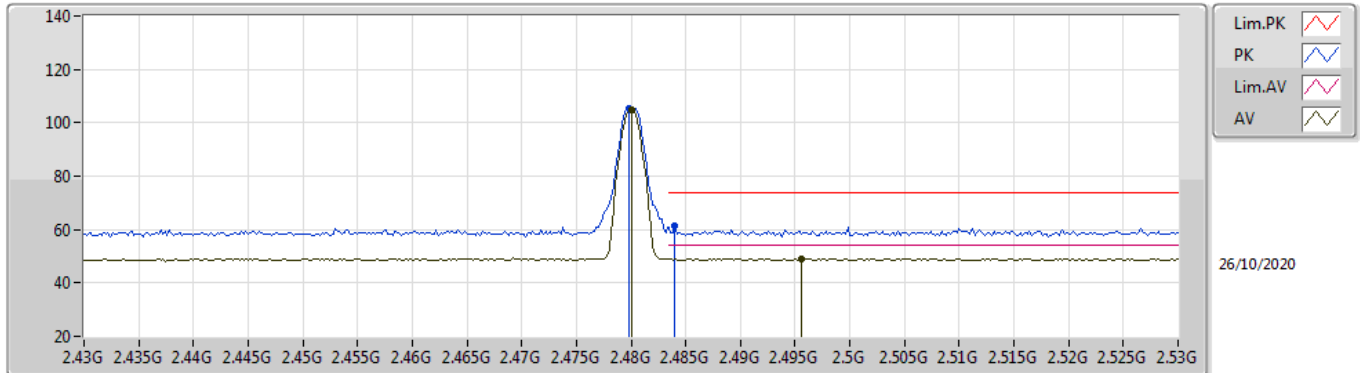
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	103.76	Inf	-Inf	31.82	3	Vertical	345	1.56	-	71.94	27.44	4.38	-
AV	2.4836G	49.08	54.00	-4.92	31.81	3	Vertical	345	1.56	-	17.27	27.43	4.38	-
PK	2.4798G	104.65	Inf	-Inf	31.82	3	Vertical	345	1.56	-	72.83	27.44	4.38	-
PK	2.487G	60.64	74.00	-13.36	31.82	3	Vertical	345	1.56	-	28.82	27.43	4.39	-

BT-LE(1Mbps)

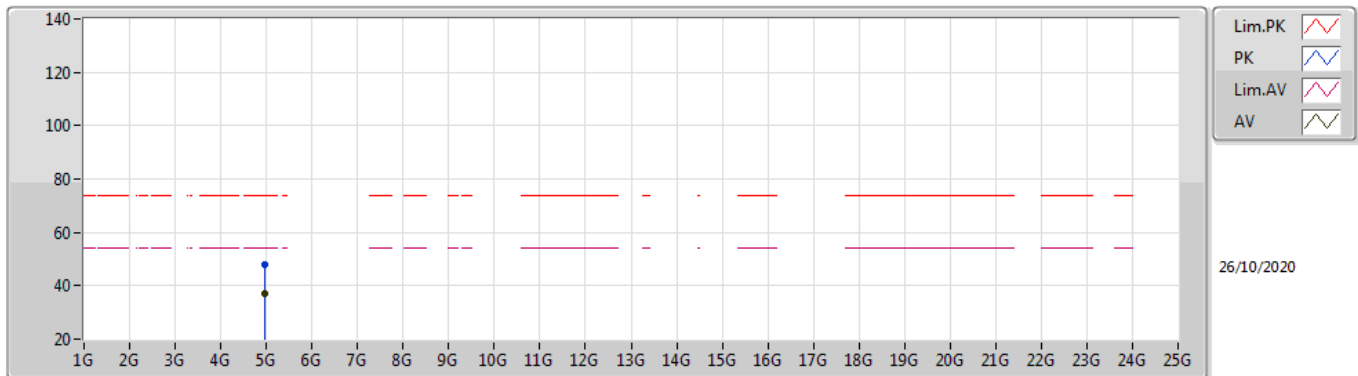
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	104.68	Inf	-Inf	31.82	3	Horizontal	357	2.80	-	72.86	27.44	4.38	-
AV	2.4956G	49.09	54.00	-4.91	31.81	3	Horizontal	357	2.80	-	17.28	27.41	4.40	-
PK	2.4798G	105.57	Inf	-Inf	31.82	3	Horizontal	357	2.80	-	73.75	27.44	4.38	-
PK	2.484G	61.27	74.00	-12.73	31.81	3	Horizontal	357	2.80	-	29.46	27.43	4.38	-

BT-LE(1Mbps)

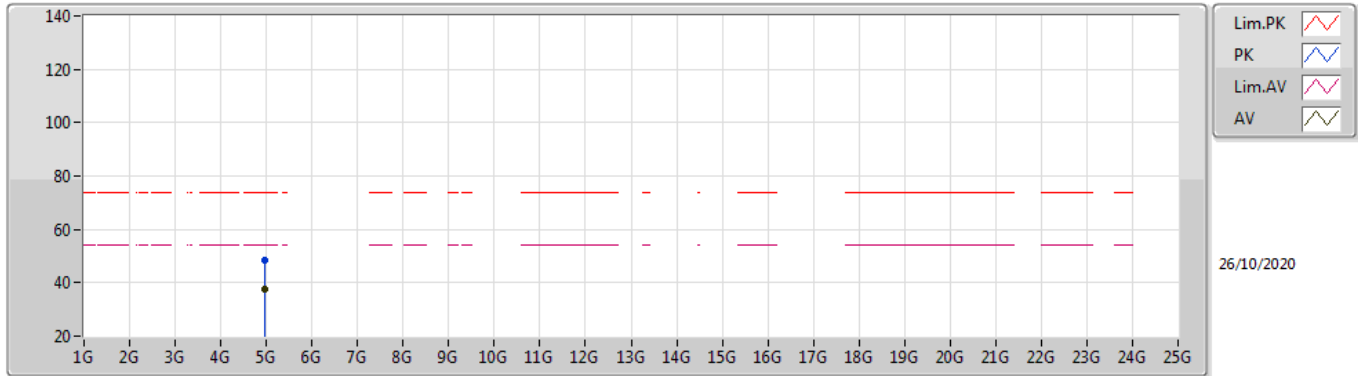
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95972G	36.85	54.00	-17.15	8.68	3	Vertical	236	2.06	-	28.17	31.20	6.66	29.18
PK	4.95948G	47.91	74.00	-26.09	8.68	3	Vertical	236	2.06	-	39.23	31.20	6.66	29.18

BT-LE(1Mbps)

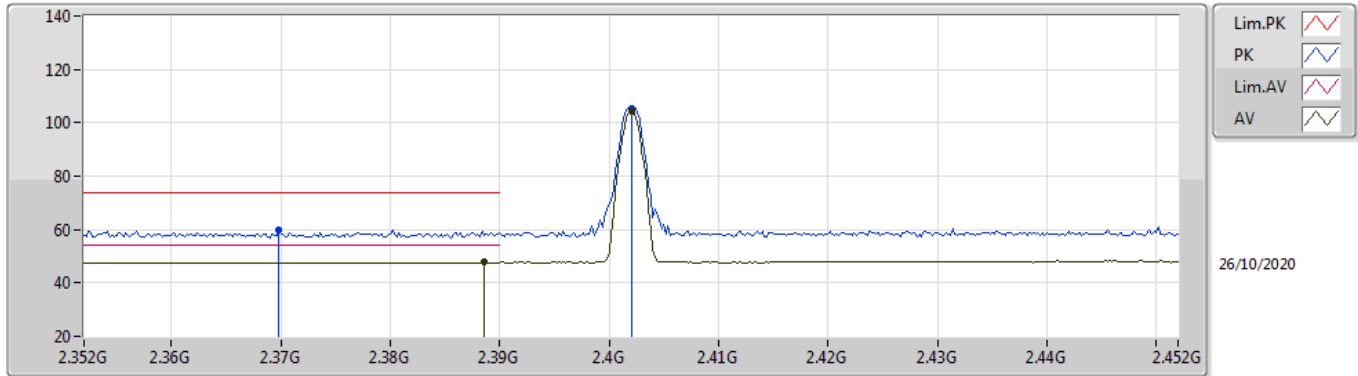
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95961G	37.64	54.00	-16.36	8.68	3	Horizontal	360	2.29	-	28.96	31.20	6.66	29.18
PK	4.95984G	48.36	74.00	-25.64	8.68	3	Horizontal	360	2.29	-	39.68	31.20	6.66	29.18

BT-LE(2Mbps)

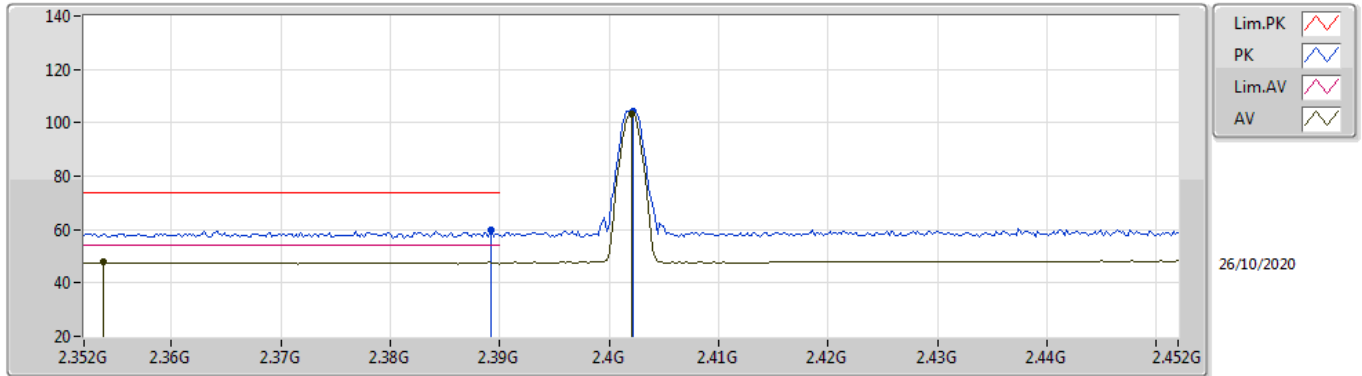
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	47.68	54.00	-6.32	31.91	3	Vertical	347	1.71	-	15.77	27.62	4.29	-
AV	2.402G	104.07	Inf	-Inf	31.90	3	Vertical	347	1.71	-	72.17	27.60	4.30	-
PK	2.3698G	59.88	74.00	-14.12	31.93	3	Vertical	347	1.71	-	27.95	27.66	4.27	-
PK	2.402G	105.24	Inf	-Inf	31.90	3	Vertical	347	1.71	-	73.34	27.60	4.30	-

BT-LE(2Mbps)

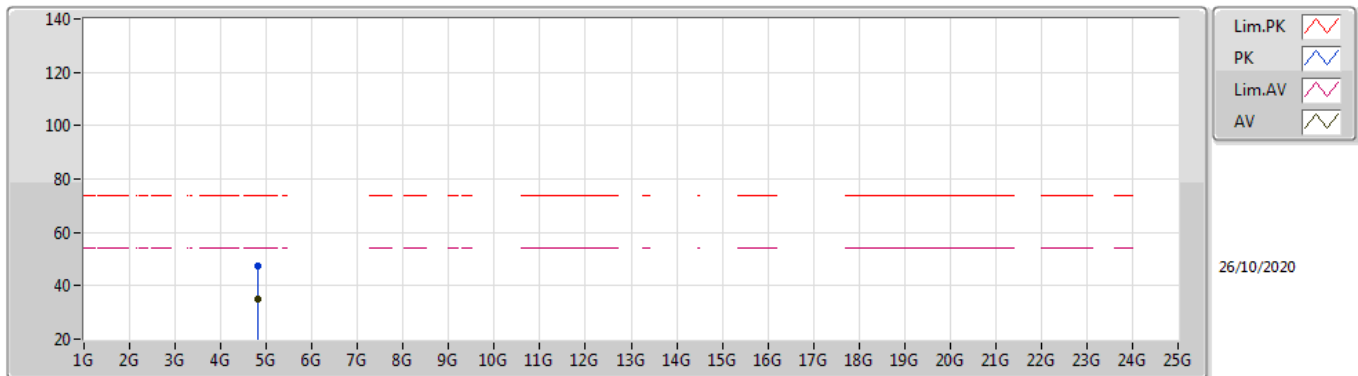
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3538G	47.89	54.00	-6.11	31.94	3	Horizontal	360	2.74	-	15.95	27.69	4.25	-
AV	2.402G	103.31	Inf	-Inf	31.90	3	Horizontal	360	2.74	-	71.41	27.60	4.30	-
PK	2.3892G	59.62	74.00	-14.38	31.91	3	Horizontal	360	2.74	-	27.71	27.62	4.29	-
PK	2.4022G	104.32	Inf	-Inf	31.90	3	Horizontal	360	2.74	-	72.42	27.60	4.30	-

BT-LE(2Mbps)

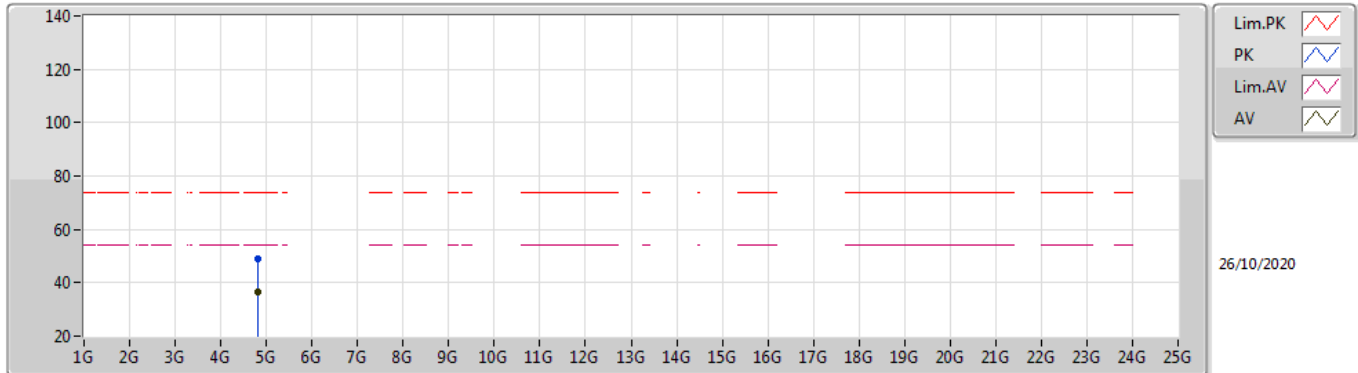
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80419G	34.95	54.00	-19.05	8.37	3	Vertical	360	1.46	-	26.58	31.10	6.50	29.23
PK	4.80391G	47.16	74.00	-26.84	8.37	3	Vertical	360	1.46	-	38.79	31.10	6.50	29.23

BT-LE(2Mbps)

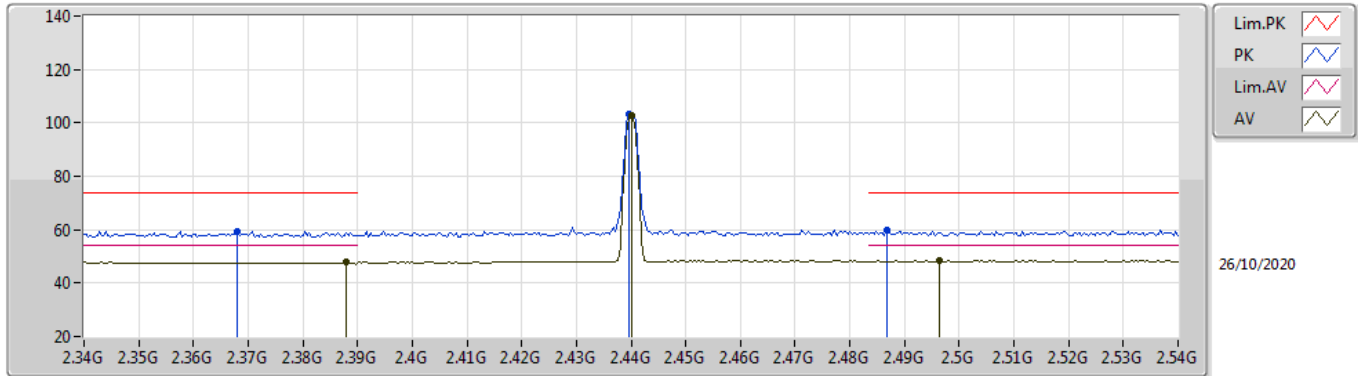
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8038G	36.51	54.00	-17.49	8.37	3	Horizontal	348	2.30	-	28.14	31.10	6.50	29.23
PK	4.80449G	48.87	74.00	-25.13	8.37	3	Horizontal	348	2.30	-	40.50	31.10	6.50	29.23

BT-LE(2Mbps)

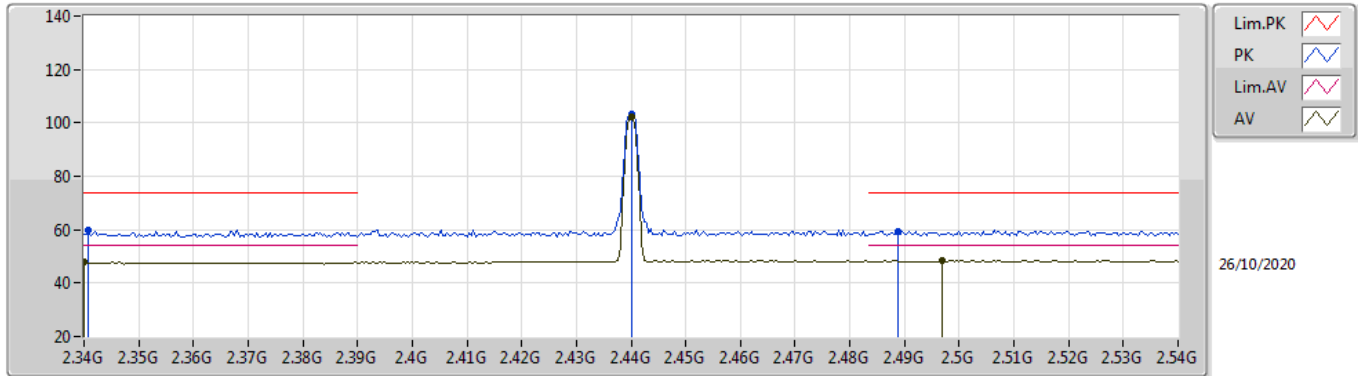
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.388G	47.95	54.00	-6.05	31.91	3	Vertical	347	1.55	-	16.04	27.62	4.29	-
AV	2.44G	102.53	Inf	-Inf	31.86	3	Vertical	347	1.55	-	70.67	27.52	4.34	-
AV	2.4964G	48.29	54.00	-5.71	31.81	3	Vertical	347	1.55	-	16.48	27.41	4.40	-
PK	2.368G	59.52	74.00	-14.48	31.93	3	Vertical	347	1.55	-	27.59	27.66	4.27	-
PK	2.4396G	103.48	Inf	-Inf	31.86	3	Vertical	347	1.55	-	71.62	27.52	4.34	-
PK	2.4868G	59.64	74.00	-14.36	31.82	3	Vertical	347	1.55	-	27.82	27.43	4.39	-

BT-LE(2Mbps)

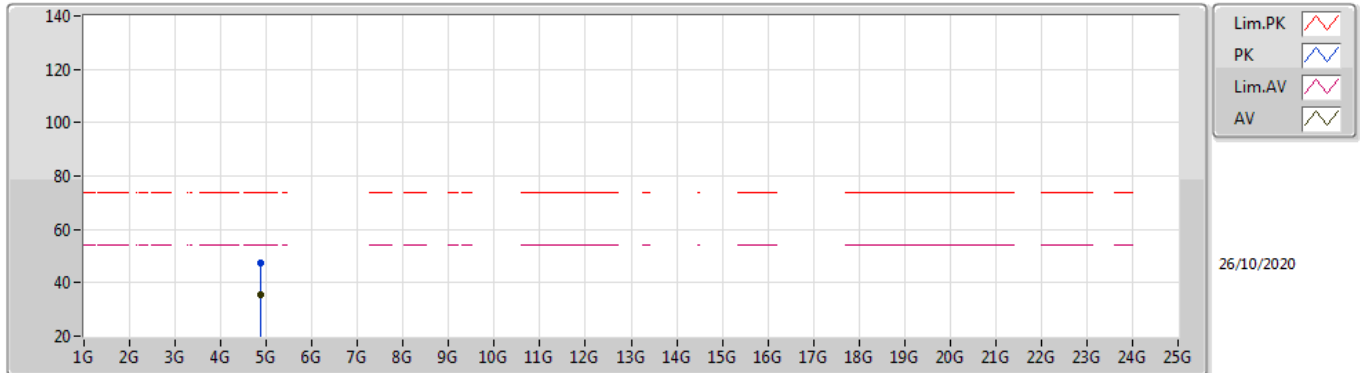
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.34G	47.77	54.00	-6.23	31.98	3	Horizontal	357	2.60	-	15.79	27.74	4.24	-
AV	2.44G	102.48	Inf	-Inf	31.86	3	Horizontal	357	2.60	-	70.62	27.52	4.34	-
AV	2.4968G	48.29	54.00	-5.71	31.81	3	Horizontal	357	2.60	-	16.48	27.41	4.40	-
PK	2.3408G	59.77	74.00	-14.23	31.98	3	Horizontal	357	2.60	-	27.79	27.74	4.24	-
PK	2.44G	103.50	Inf	-Inf	31.86	3	Horizontal	357	2.60	-	71.64	27.52	4.34	-
PK	2.4888G	59.40	74.00	-14.60	31.81	3	Horizontal	357	2.60	-	27.59	27.42	4.39	-

BT-LE(2Mbps)

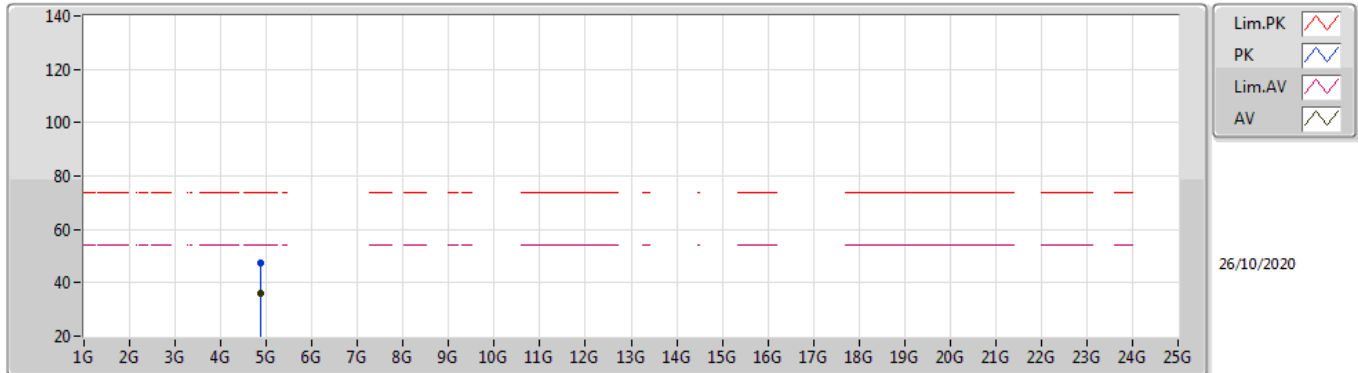
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8796G	35.28	54.00	-18.72	8.47	3	Vertical	360	1.69	-	26.81	31.10	6.58	29.21
PK	4.87989G	47.52	74.00	-26.48	8.47	3	Vertical	360	1.69	-	39.05	31.10	6.58	29.21

BT-LE(2Mbps)

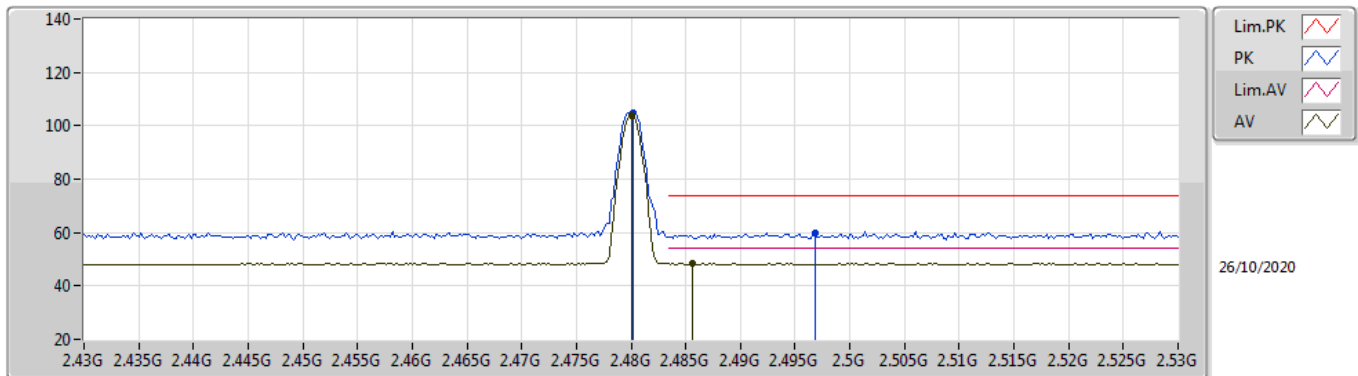
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88001G	36.01	54.00	-17.99	8.47	3	Horizontal	360	2.24	-	27.54	31.10	6.58	29.21
PK	4.88068G	47.43	74.00	-26.57	8.47	3	Horizontal	360	2.24	-	38.96	31.10	6.58	29.21

BT-LE(2Mbps)

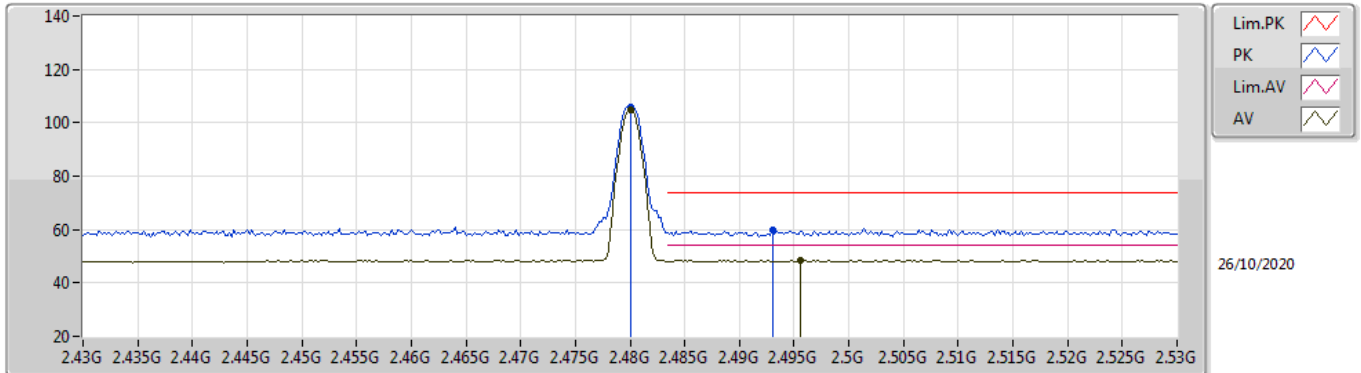
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	103.77	Inf	-Inf	31.82	3	Vertical	345	1.55	-	71.95	27.44	4.38	-
AV	2.4856G	48.29	54.00	-5.71	31.82	3	Vertical	345	1.55	-	16.47	27.43	4.39	-
PK	2.4802G	104.66	Inf	-Inf	31.82	3	Vertical	345	1.55	-	72.84	27.44	4.38	-
PK	2.4968G	60.01	74.00	-13.99	31.81	3	Vertical	345	1.55	-	28.20	27.41	4.40	-

BT-LE(2Mbps)

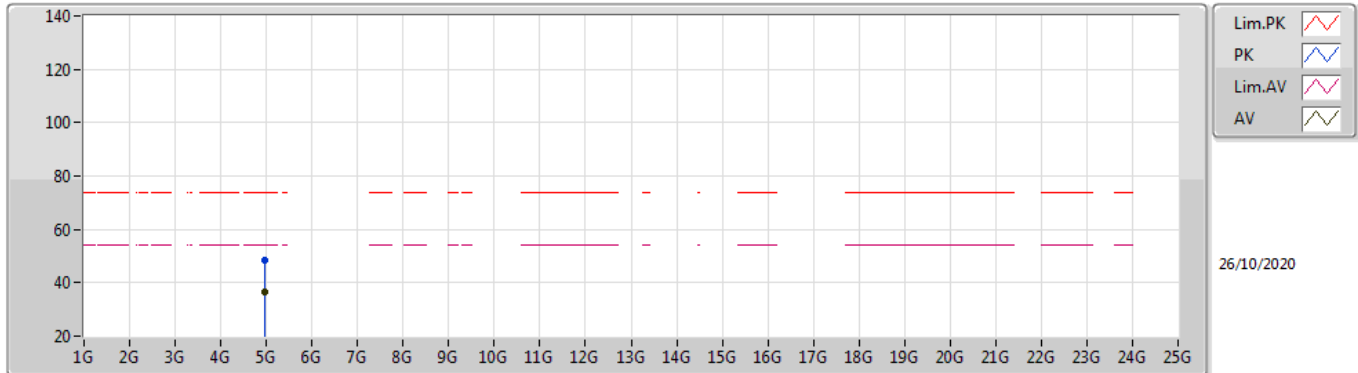
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	104.65	Inf	-Inf	31.82	3	Horizontal	357	2.81	-	72.83	27.44	4.38	-
AV	2.4956G	48.29	54.00	-5.71	31.81	3	Horizontal	357	2.81	-	16.48	27.41	4.40	-
PK	2.48G	105.67	Inf	-Inf	31.82	3	Horizontal	357	2.81	-	73.85	27.44	4.38	-
PK	2.493G	59.92	74.00	-14.08	31.80	3	Horizontal	357	2.81	-	28.12	27.41	4.39	-

BT-LE(2Mbps)

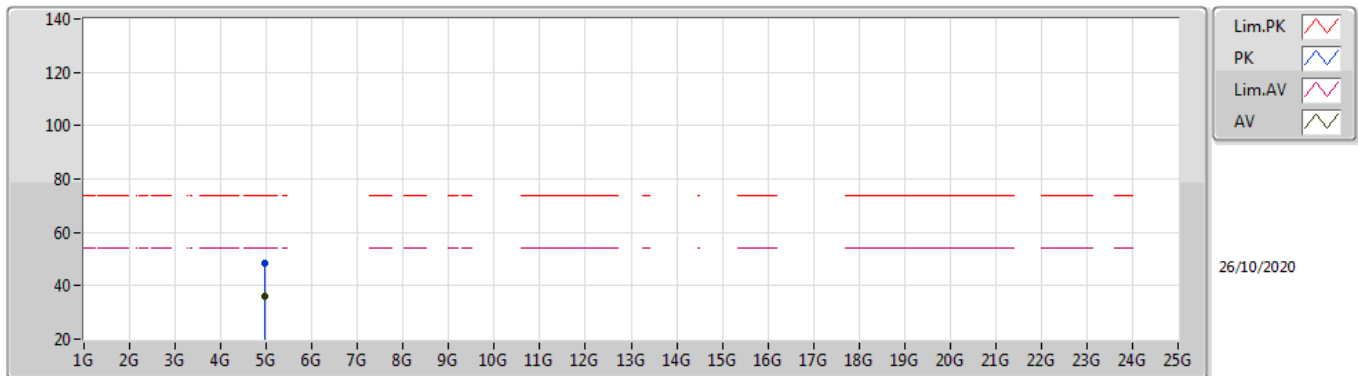
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96029G	36.73	54.00	-17.27	8.68	3	Vertical	234	1.93	-	28.05	31.20	6.66	29.18
PK	4.9604G	48.20	74.00	-25.80	8.68	3	Vertical	234	1.93	-	39.52	31.20	6.66	29.18

BT-LE(2Mbps)

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96016G	36.25	54.00	-17.75	8.68	3	Horizontal	360	1.79	-	27.57	31.20	6.66	29.18
PK	4.95941G	48.42	74.00	-25.58	8.68	3	Horizontal	360	1.79	-	39.74	31.20	6.66	29.18