

FCC Test Report

FCC ID : 2AYS4-AIP6MA
Equipment : SiP Module
Brand Name : AIP
Model Name : SCLCT06M
Applicant : Advanced Semiconductor Engineering, Inc., Chung-Li Branch
550, Chung-Hwa Road Section 1, Chung-Li District, Taoyuan
City 32016, Taiwan
Manufacturer : Advanced Semiconductor Engineering, Inc., Chung-Li Branch
550, Chung-Hwa Road Section 1, Chung-Li District, Taoyuan
City 32016, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 21, 2021, and testing was started from Jan. 23, 2021 and completed on Feb. 04, 2021. 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.)

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History of this test report

[illegible]

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: Ben Tseng

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:

- 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	Gain (dBi)
1	Unictron	AA080	Chip	I-PEX	-0.3

Note 1: The EUT has one antenna.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / From Host system		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Type of EUT			
☐	Stand-alone		
☒	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:	ASE Group / 6M05-DB02	
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:	...	
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-LE(1Mbps)	0.609	2.15	380.625u	3k
BT-LE(2Mbps)	0.314	5.03	196.875u	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			
☒	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.			
☐	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.			
☐	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	20.8~21.3°C / 54~ 58%	26/Jan/2021
RF Conducted	TH07-HY	Justin Pan	20.1~23.3°C / 50~58.5%	04/Feb/2021
Radiated	03CH03-HY	Edward Wang	20.1~23.6°C / 50~61%	23/Jan/2021~ 26/Jan/2021

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	BlueSuite.WIN.3.3 Installer_3.3.5.817
-----------------------	---------------------------------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	default
2440MHz	default
2480MHz	default
BT-LE(2Mbps)	-
2402MHz	default
2440MHz	default
2480MHz	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	USB 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

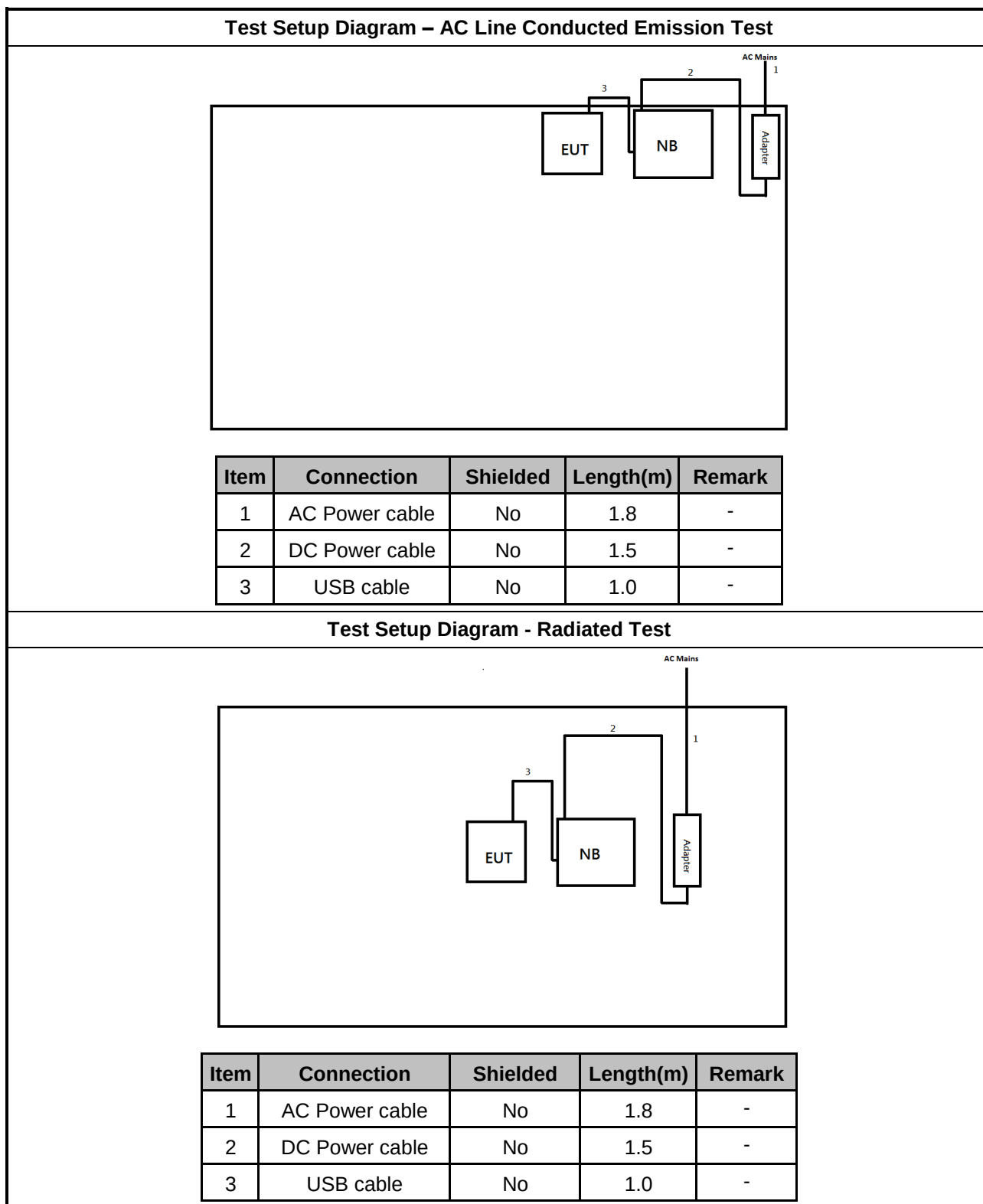
The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	USB Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

2.4 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power Cable	Power Sync	TPCMRN0018	-	-
2	Notebook	DELL	P35F	-	-
3	Adapter for NB	DELL	AA90PM111	-	-
4	USB Cable	Sporton	Sporton	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5540	-	-
2	Adapter for NB	DELL	LA90PS0-00	-	-

2.5 Test Setup Diagram



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

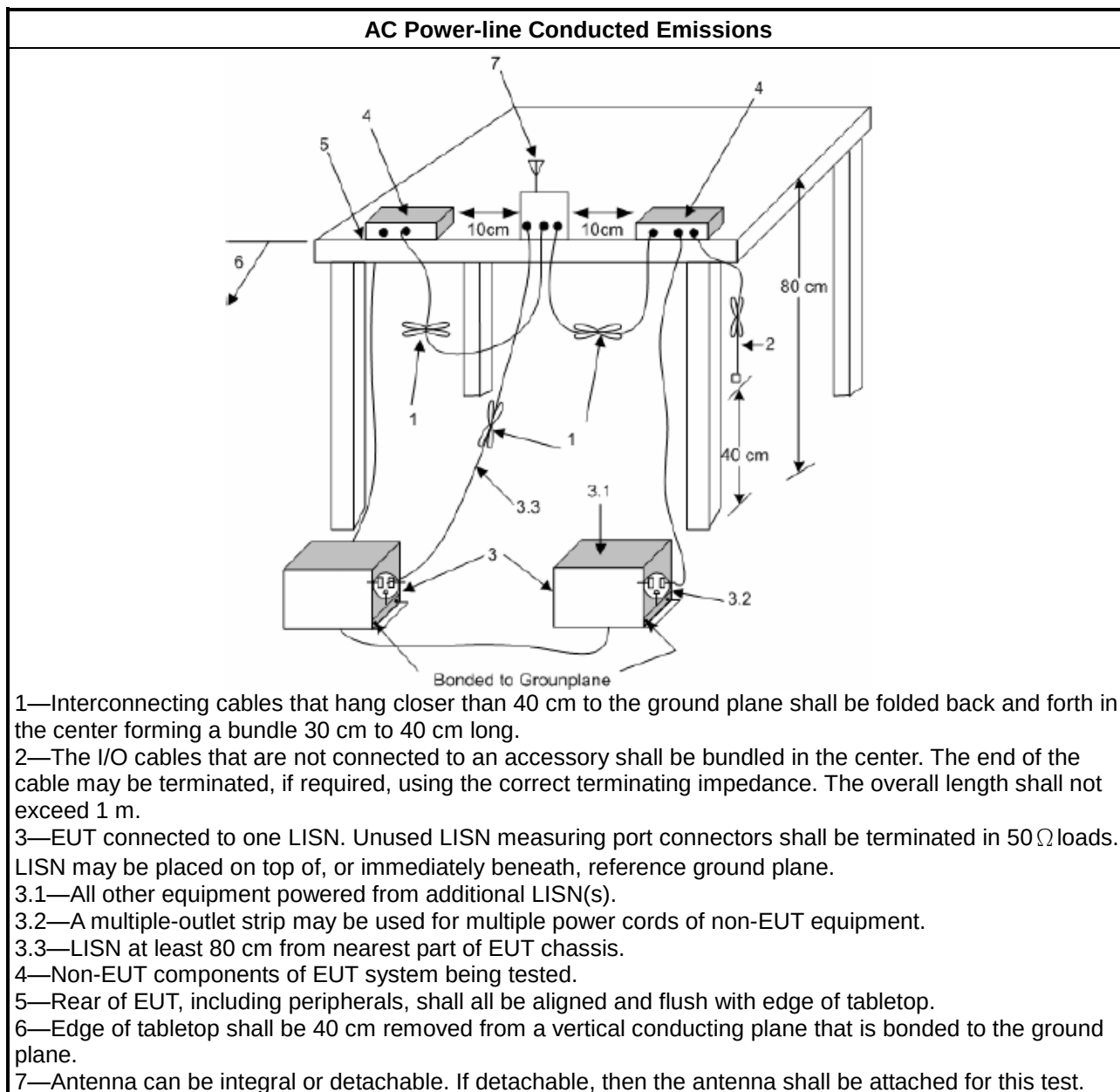
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

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.

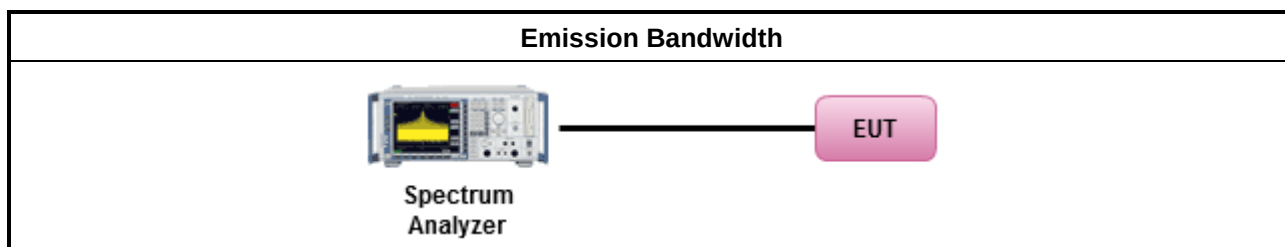
3.2.2 Measuring Instruments

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:	
☒	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	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	
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

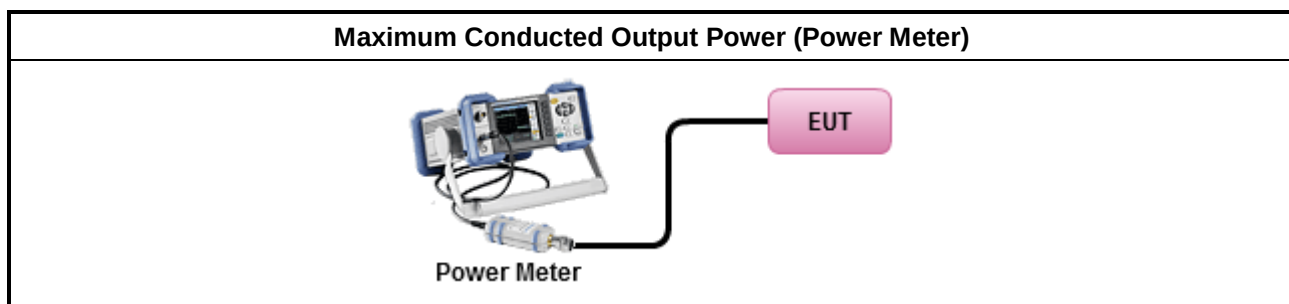
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
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.	
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	
▪	Power Spectral Density (PSD) ≤ 8 dBm/3kHz

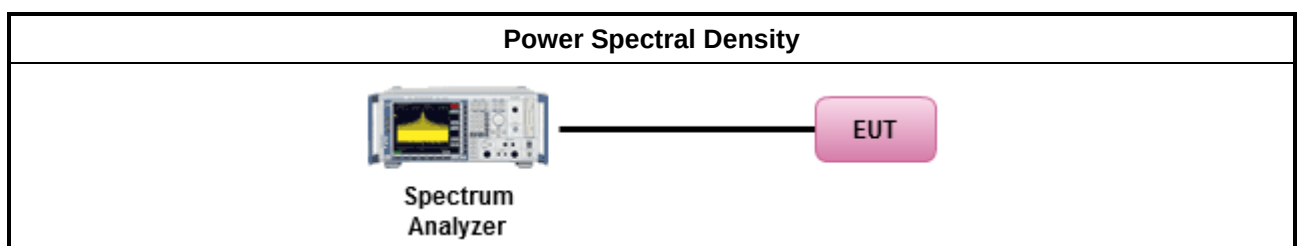
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪	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).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	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.	

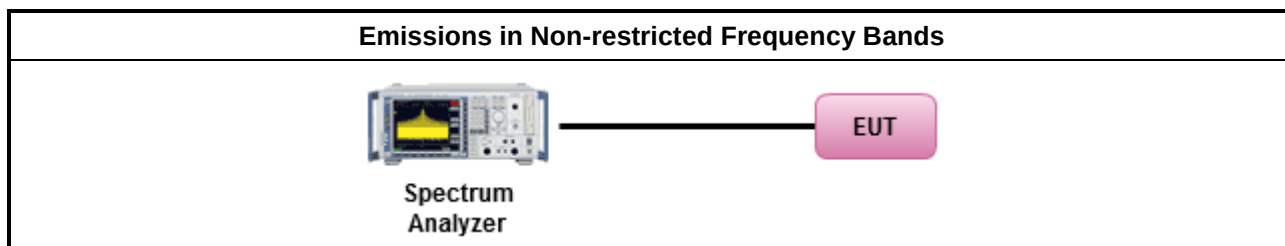
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
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

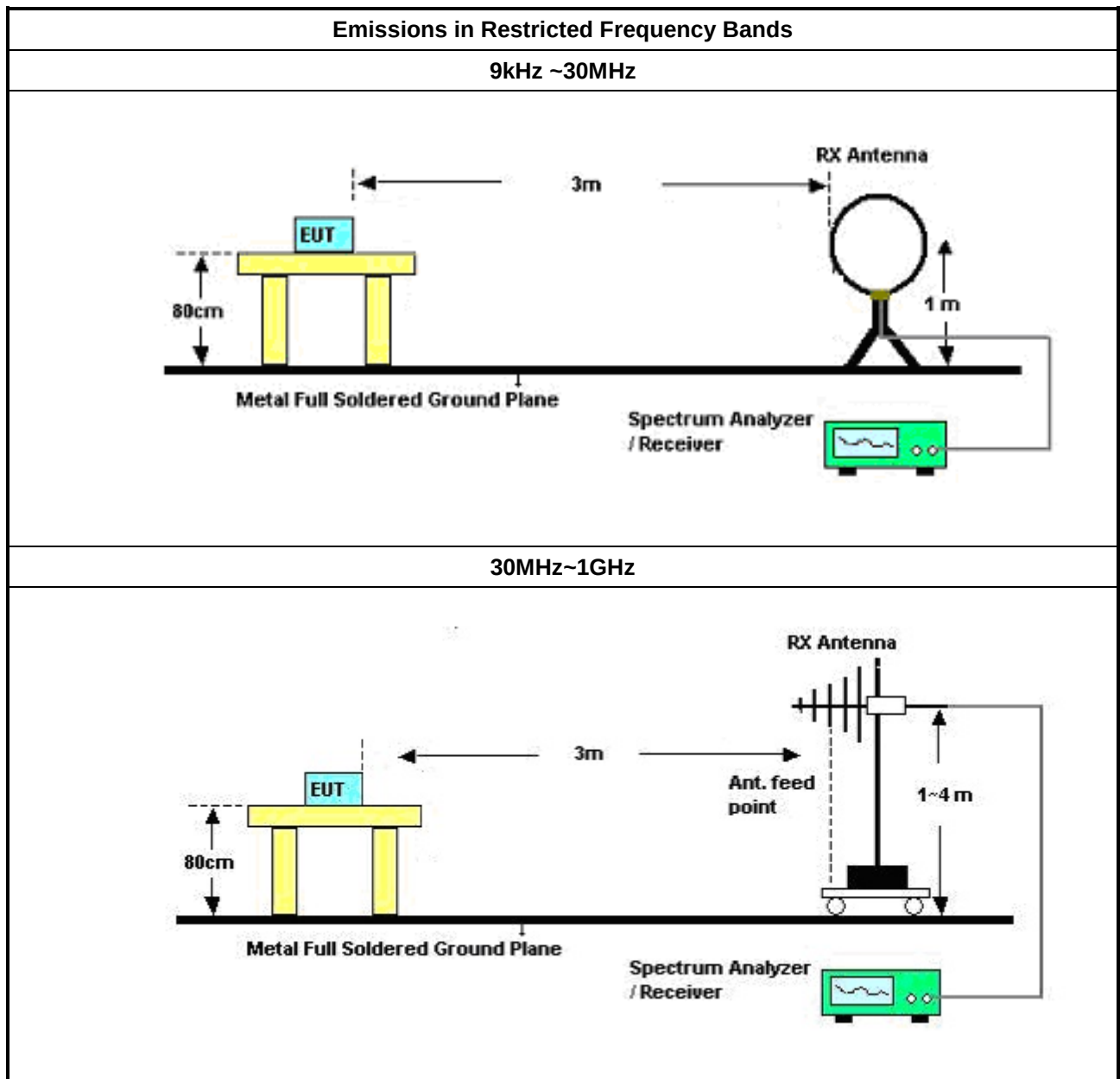
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	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.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	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.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

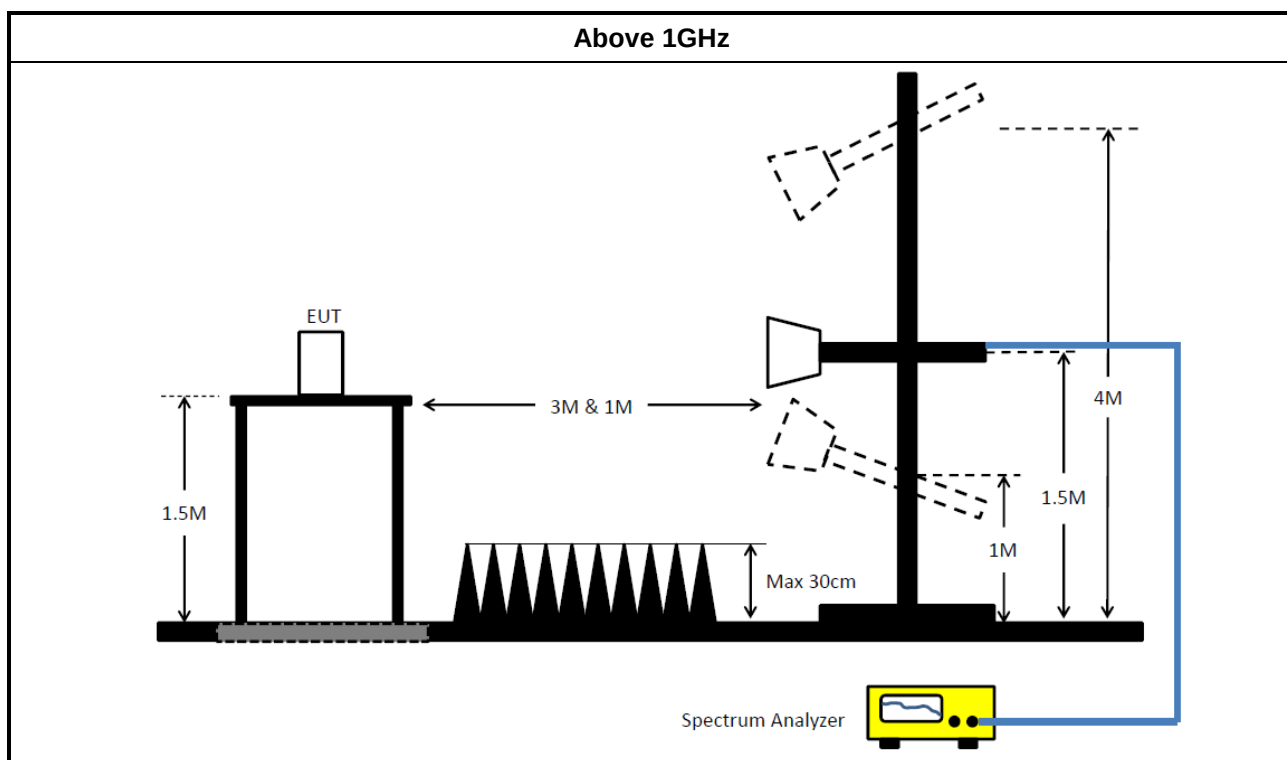
3.6.4 Measurement Results Calculation

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
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/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

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	15/Feb/2020	14/Feb/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	27/Nov/2020	26/Nov/2021
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	27/Nov/2020	26/Nov/2021

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 & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	25/Oct/2020	24/Oct/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

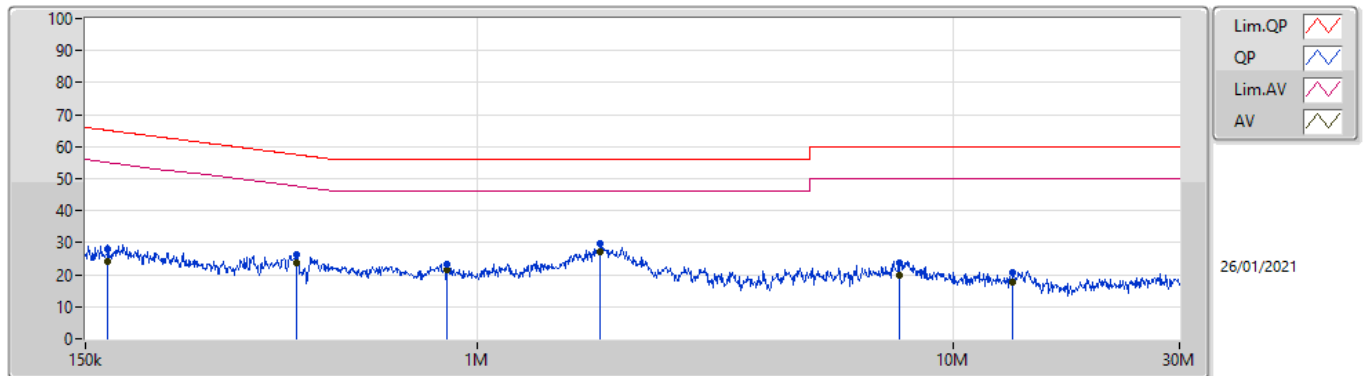


Summary

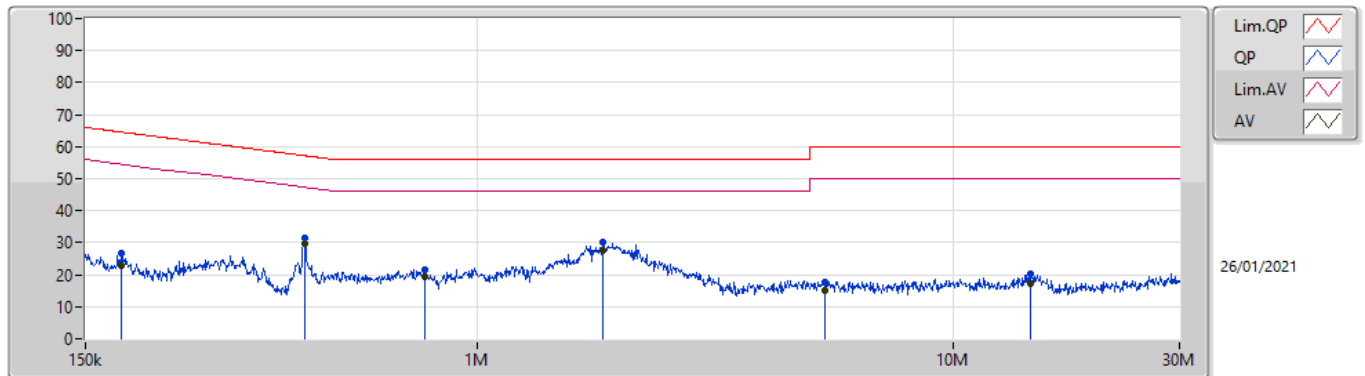
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	433.769k	29.70	47.19	-17.49	Neutral

Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	167.071k	28.05	65.10	-37.05	Line	-
Mode 1	Pass	AV	167.071k	24.06	55.10	-31.04	Line	-
Mode 1	Pass	QP	416.794k	26.19	57.51	-31.32	Line	-
Mode 1	Pass	AV	416.794k	23.57	47.51	-23.94	Line	-
Mode 1	Pass	QP	865.349k	23.37	56.00	-32.63	Line	-
Mode 1	Pass	AV	865.349k	21.76	46.00	-24.24	Line	-
Mode 1	Pass	QP	1.818M	29.78	56.00	-26.22	Line	-
Mode 1	Pass	AV	1.818M	27.04	46.00	-18.96	Line	"Worst"
Mode 1	Pass	QP	7.714M	23.63	60.00	-36.37	Line	-
Mode 1	Pass	AV	7.714M	19.97	50.00	-30.03	Line	-
Mode 1	Pass	QP	13.382M	20.74	60.00	-39.26	Line	-
Mode 1	Pass	AV	13.382M	17.54	50.00	-32.46	Line	-
Mode 1	Pass	QP	178.803k	26.69	64.55	-37.86	Neutral	-
Mode 1	Pass	AV	178.803k	22.89	54.55	-31.66	Neutral	-
Mode 1	Pass	QP	433.769k	31.39	57.19	-25.80	Neutral	-
Mode 1	Pass	AV	433.769k	29.70	47.19	-17.49	Neutral	"Worst"
Mode 1	Pass	QP	773.833k	21.36	56.00	-34.64	Neutral	-
Mode 1	Pass	AV	773.833k	19.28	46.00	-26.72	Neutral	-
Mode 1	Pass	QP	1.84M	30.25	56.00	-25.75	Neutral	-
Mode 1	Pass	AV	1.84M	27.71	46.00	-18.29	Neutral	-
Mode 1	Pass	QP	5.386M	17.53	60.00	-42.47	Neutral	-
Mode 1	Pass	AV	5.386M	15.08	50.00	-34.92	Neutral	-
Mode 1	Pass	QP	14.552M	20.30	60.00	-39.70	Neutral	-
Mode 1	Pass	AV	14.552M	17.30	50.00	-32.70	Neutral	-



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	167.071k	28.05	65.10	-37.05	19.60	Line	-	8.45	9.69	0.01	9.90			
AV	167.071k	24.06	55.10	-31.04	19.60	Line	-	4.46	9.69	0.01	9.90			
QP	416.794k	26.19	57.51	-31.32	19.59	Line	-	6.60	9.67	0.02	9.90			
AV	416.794k	23.57	47.51	-23.94	19.59	Line	-	3.98	9.67	0.02	9.90			
QP	865.349k	23.37	56.00	-32.63	19.54	Line	-	3.83	9.67	0.05	9.82			
AV	865.349k	21.76	46.00	-24.24	19.54	Line	-	2.22	9.67	0.05	9.82			
QP	1.818M	29.78	56.00	-26.22	19.56	Line	-	10.22	9.68	0.08	9.80			
AV	1.818M	27.04	46.00	-18.96	19.56	Line	"Worst"	7.48	9.68	0.08	9.80			
QP	7.714M	23.63	60.00	-36.37	19.79	Line	-	3.84	9.71	0.18	9.90			
AV	7.714M	19.97	50.00	-30.03	19.79	Line	-	0.18	9.71	0.18	9.90			
QP	13.382M	20.74	60.00	-39.26	19.84	Line	-	0.90	9.70	0.24	9.90			
AV	13.382M	17.54	50.00	-32.46	19.84	Line	-	-2.30	9.70	0.24	9.90			



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	178.803k	26.69	64.55	-37.86	19.59	Neutral	-	7.10	9.68	0.01	9.90			
AV	178.803k	22.89	54.55	-31.66	19.59	Neutral	-	3.30	9.68	0.01	9.90			
QP	433.769k	31.39	57.19	-25.80	19.58	Neutral	-	11.81	9.67	0.02	9.89			
AV	433.769k	29.70	47.19	-17.49	19.58	Neutral	"Worst"	10.12	9.67	0.02	9.89			
QP	773.833k	21.36	56.00	-34.64	19.54	Neutral	-	1.82	9.67	0.04	9.83			
AV	773.833k	19.28	46.00	-26.72	19.54	Neutral	-	-0.26	9.67	0.04	9.83			
QP	1.84M	30.25	56.00	-25.75	19.56	Neutral	-	10.69	9.68	0.08	9.80			
AV	1.84M	27.71	46.00	-18.29	19.56	Neutral	-	8.15	9.68	0.08	9.80			
QP	5.386M	17.53	60.00	-42.47	19.75	Neutral	-	-2.22	9.70	0.15	9.90			
AV	5.386M	15.08	50.00	-34.92	19.75	Neutral	-	-4.67	9.70	0.15	9.90			
QP	14.552M	20.30	60.00	-39.70	19.89	Neutral	-	0.41	9.74	0.25	9.90			
AV	14.552M	17.30	50.00	-32.70	19.89	Neutral	-	-2.59	9.74	0.25	9.90			

**Summary**

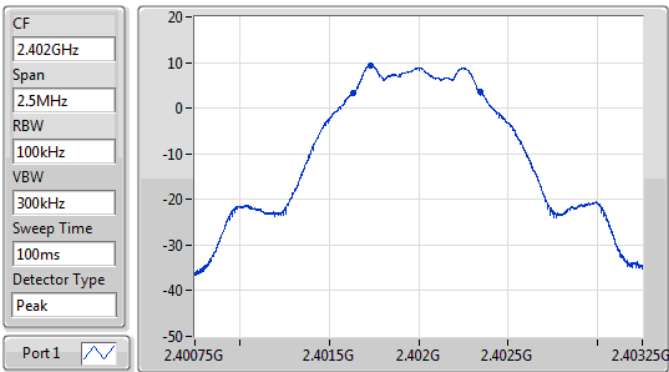
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	712.5k	1.042M	1M04F1D	705k	1.032M
BT-LE(2Mbps)	1.258M	2.054M	2M05F1D	1.253M	2.051M

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	712.5k	1.039M
2440MHz_TnomVnom-DTS	Pass	500k	712.5k	1.042M
2480MHz_TnomVnom-DTS	Pass	500k	705k	1.032M
BT-LE(2Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	500k	1.253M	2.054M
2440MHz_TnomVnom-DTS	Pass	500k	1.258M	2.051M
2480MHz_TnomVnom-DTS	Pass	500k	1.253M	2.051M

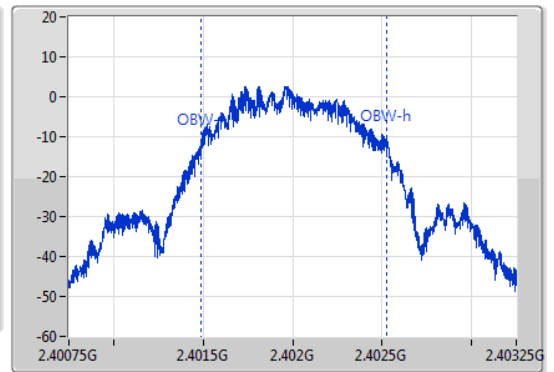
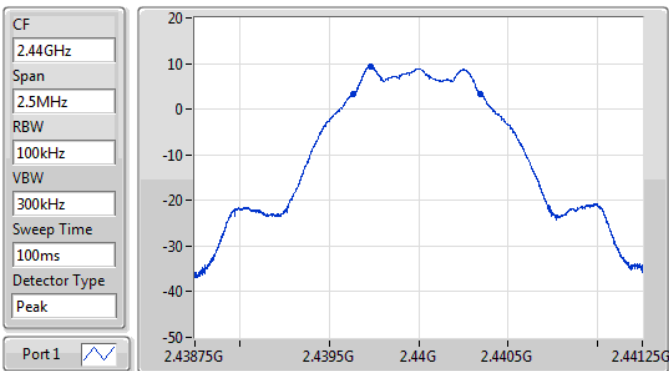
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-LE(1Mbps)
2402MHz


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
712.5k	2.401634G	2.402346G	1.039M	2.401485G	2.402525G	500k	1

EBW-DTS

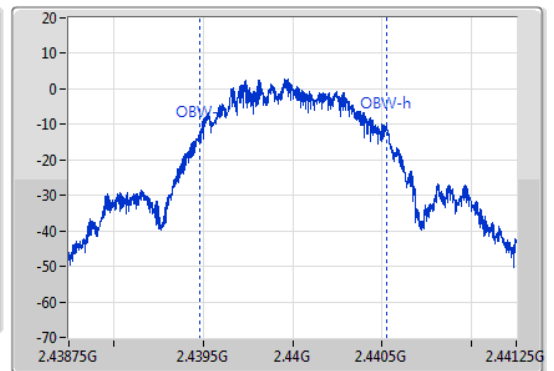
04/02/2021

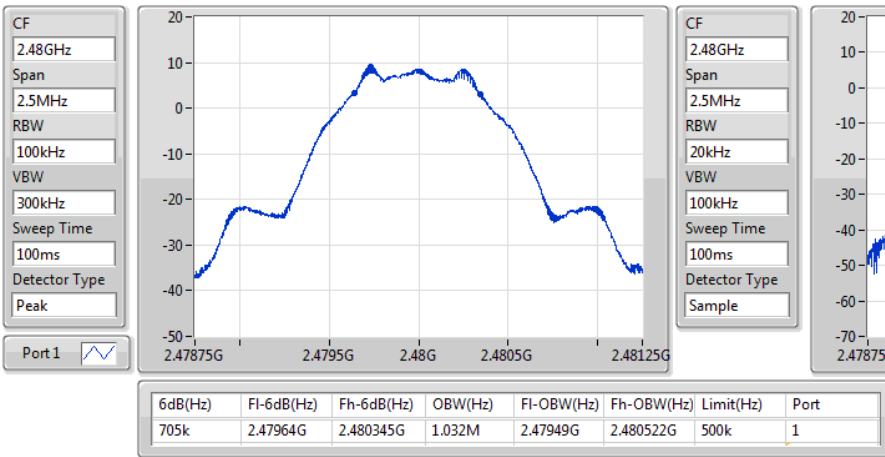

BT-LE(1Mbps)
2440MHz


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
712.5k	2.439634G	2.440346G	1.042M	2.439483G	2.440525G	500k	1

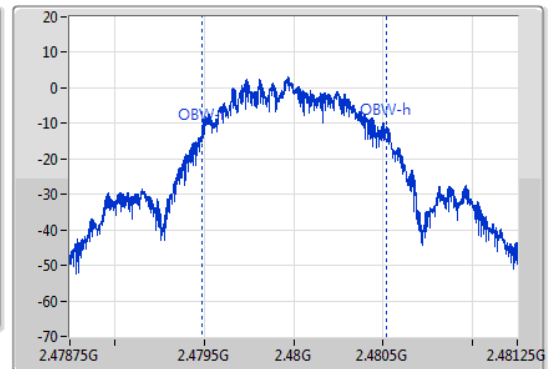
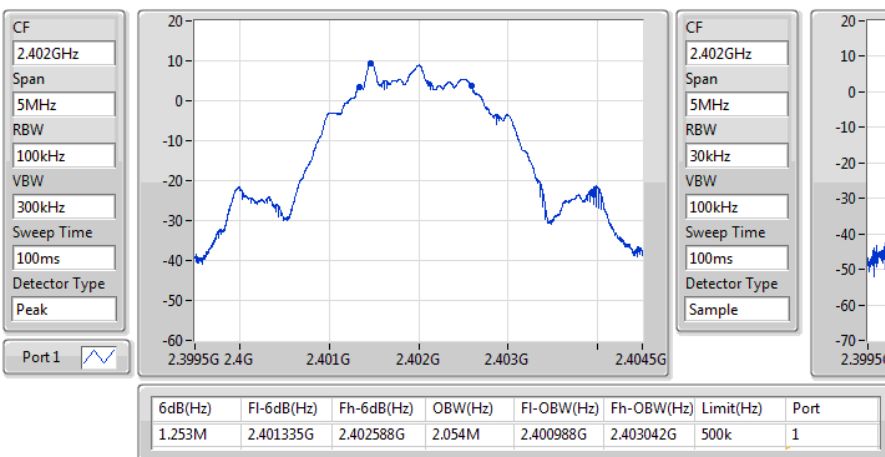
EBW-DTS

04/02/2021

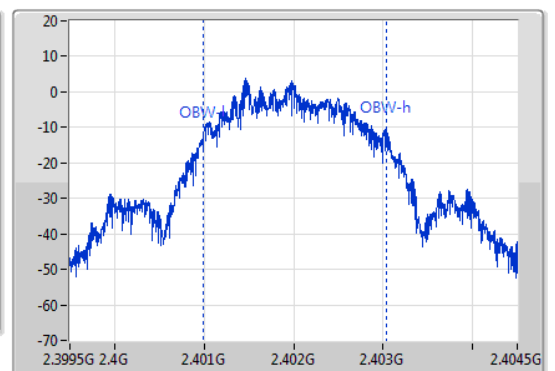


BT-LE(1Mbps)
2480MHz

EBW-DTS

04/02/2021

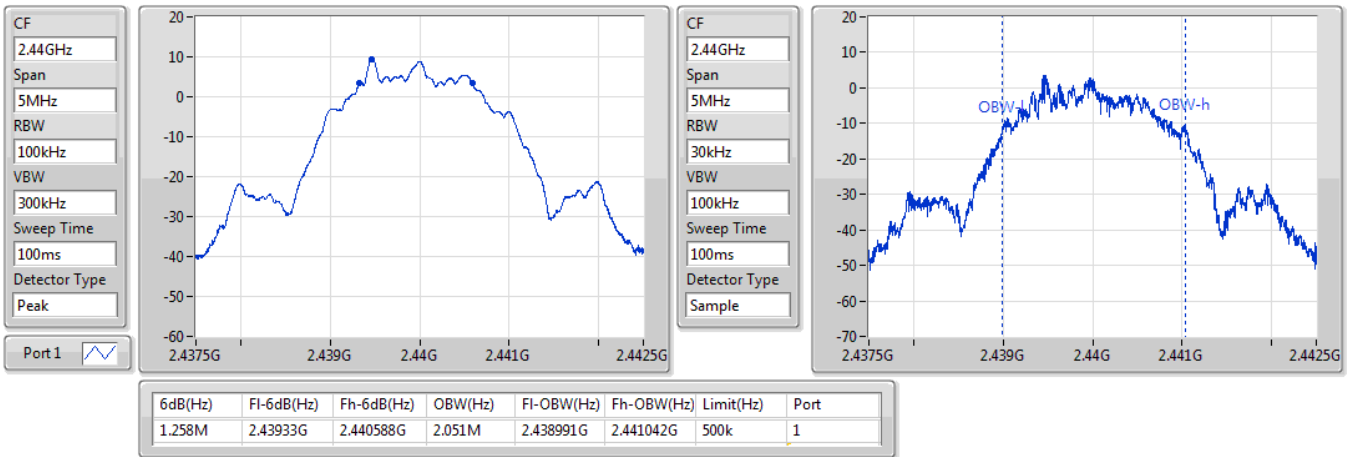

BT-LE(2Mbps)
2402MHz

EBW-DTS

04/02/2021

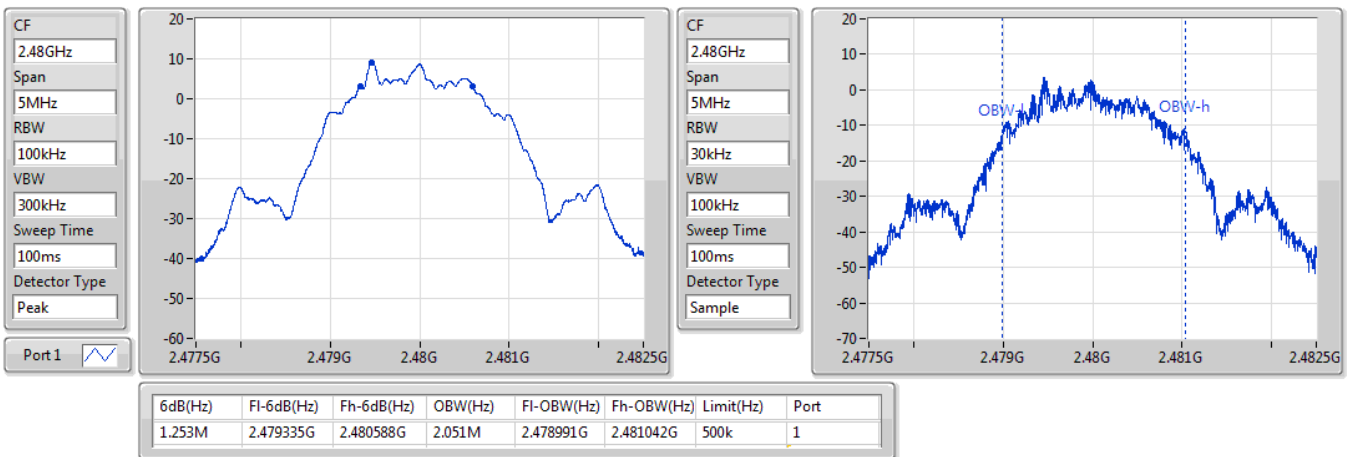


BT-LE(2Mbps)
EBW-DTS
2440MHz

04/02/2021


BT-LE(2Mbps)
EBW-DTS
2480MHz

04/02/2021





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	9.07	0.00807
BT-LE(2Mbps)	9.18	0.00828

**Result**

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	-0.30	9.07	30.00
2440MHz_TnomVnom-DTS	Pass	-0.30	8.92	30.00
2480MHz_TnomVnom-DTS	Pass	-0.30	8.88	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	-0.30	9.18	30.00
2440MHz_TnomVnom-DTS	Pass	-0.30	9.08	30.00
2480MHz_TnomVnom-DTS	Pass	-0.30	8.98	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-6.59
BT-LE(2Mbps)	-9.78

RBW = 3kHz;

Result

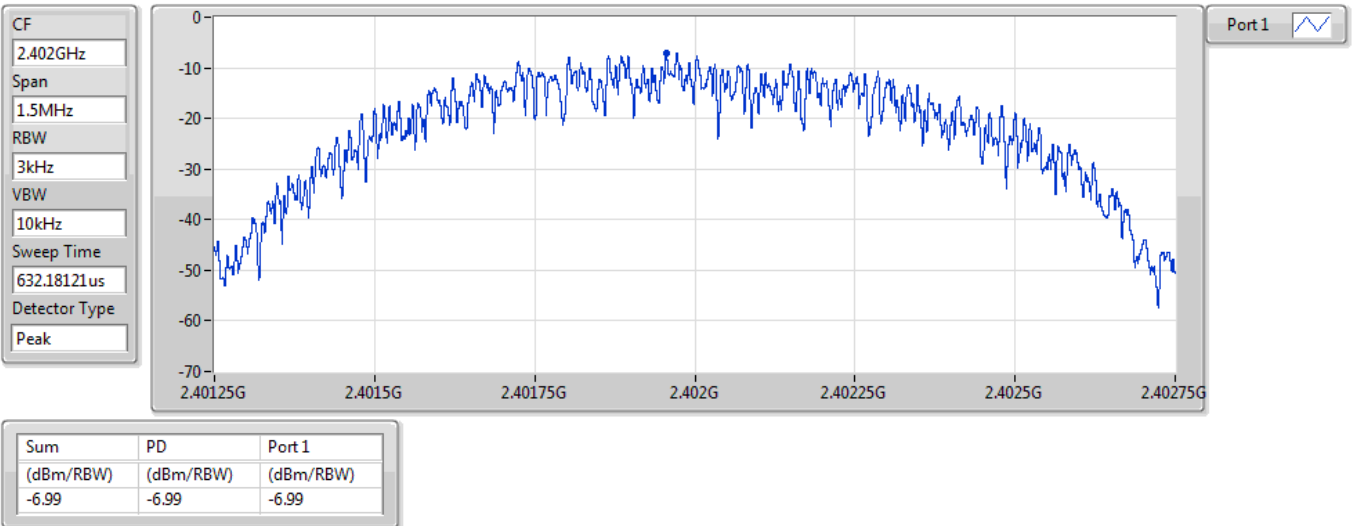
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	-0.30	-6.99	8.00
2440MHz_TnomVnom-DTS	Pass	-0.30	-6.59	8.00
2480MHz_TnomVnom-DTS	Pass	-0.30	-6.66	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	-0.30	-9.78	8.00
2440MHz_TnomVnom-DTS	Pass	-0.30	-9.88	8.00
2480MHz_TnomVnom-DTS	Pass	-0.30	-10.32	8.00

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)

2402MHz

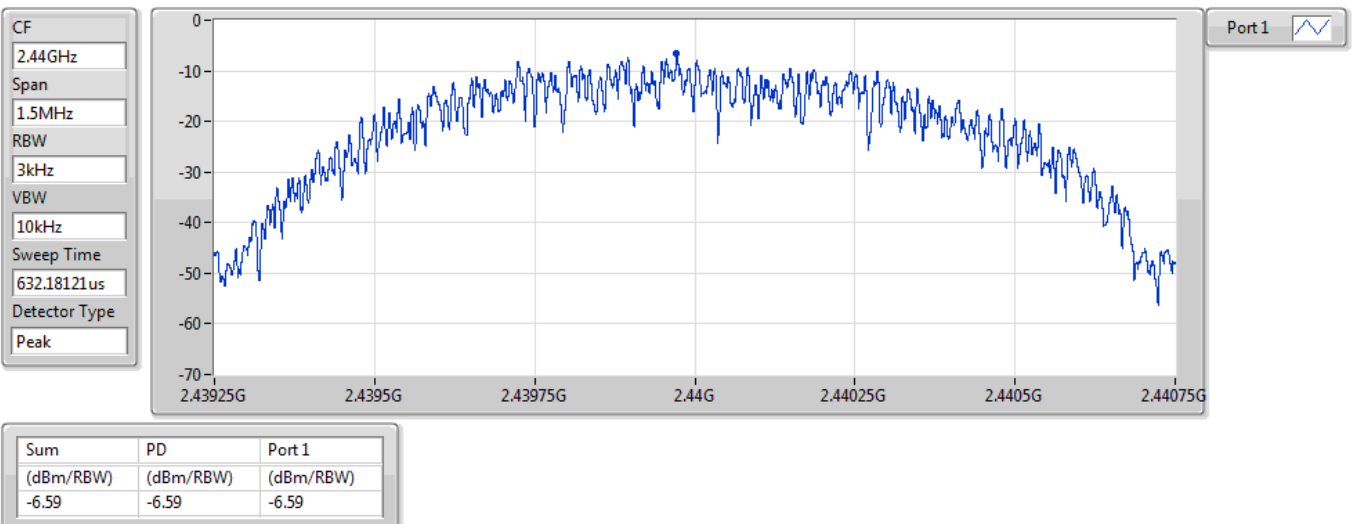
04/02/2021



BT-LE(1Mbps)

2440MHz

04/02/2021

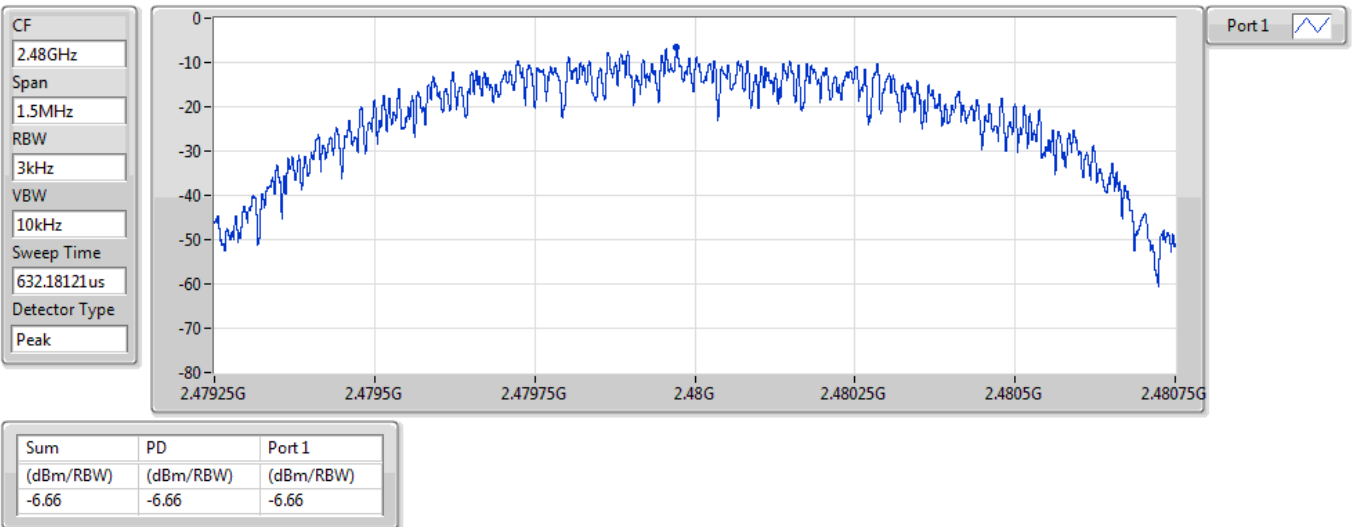


BT-LE(1Mbps)

PSD

2480MHz

04/02/2021

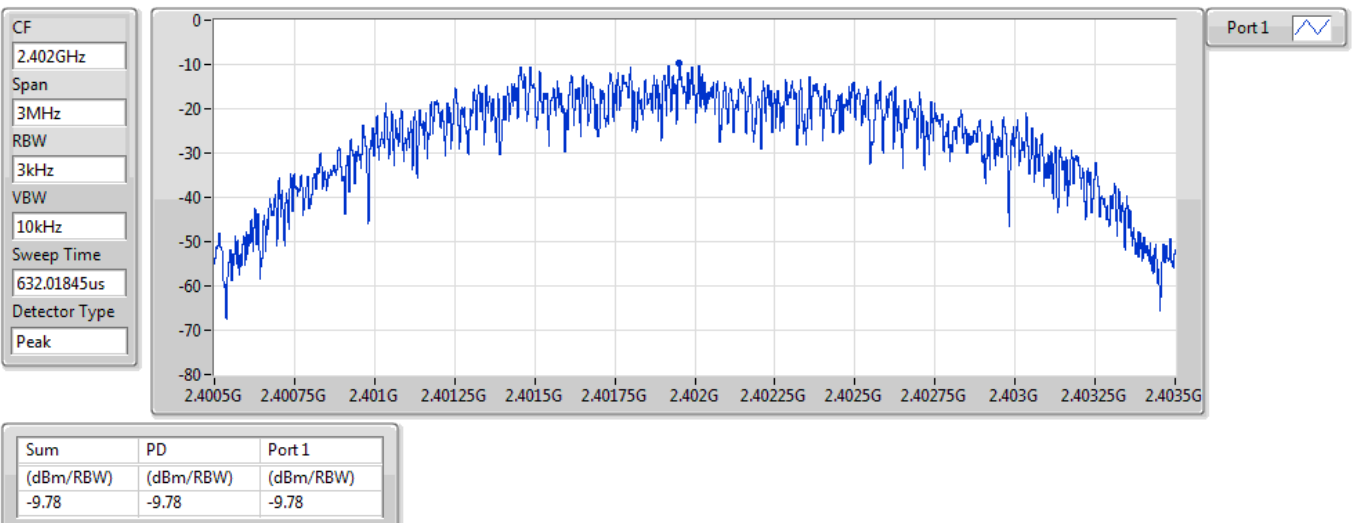


BT-LE(2Mbps)

PSD

2402MHz

04/02/2021

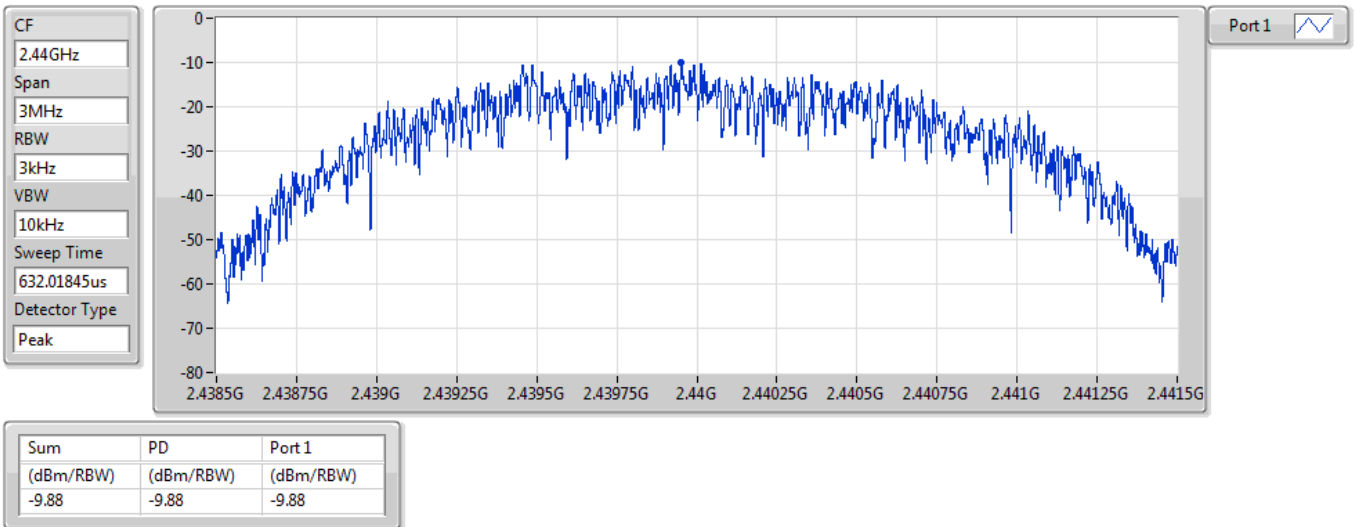


BT-LE(2Mbps)

PSD

2440MHz

04/02/2021

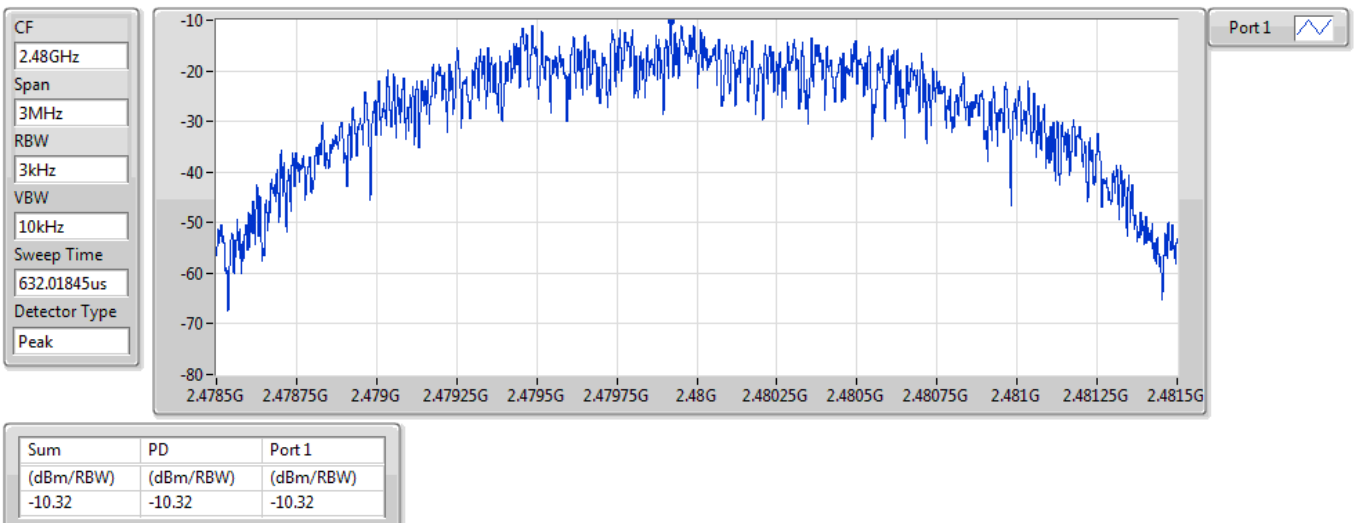


BT-LE(2Mbps)

PSD

2480MHz

04/02/2021





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	2.40171G	9.45	-20.55	2.00635G	-52.75	2.39997G	-43.56	2.4G	-43.61	2.502G	-51.57	23.26215G	-39.61	1
BT-LE(2Mbps)	Pass	2.40146G	9.46	-20.54	2.13854G	-53.27	2.4G	-21.73	2.4G	-21.96	2.48849G	-51.48	23.54054G	-39.60	1

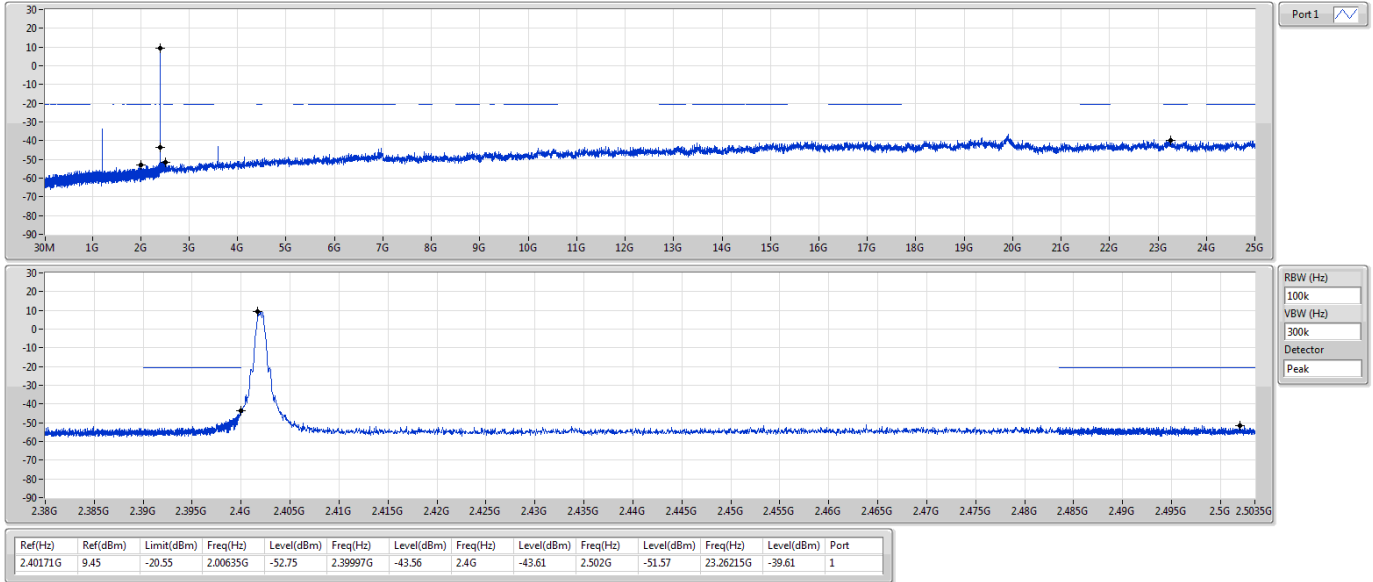
Result

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	2.40171G	9.45	-20.55	2.00635G	-52.75	2.39997G	-43.56	2.4G	-43.61	2.502G	-51.57	23.26215G	-39.61	1
2440MHz_TnomVnom-DTS	Pass	2.40171G	9.45	-20.55	2.09389G	-53.26	2.39855G	-52.90	2.4835G	-53.66	2.48965G	-51.10	23.32401G	-38.84	1
2480MHz_TnomVnom-DTS	Pass	2.40171G	9.45	-20.55	2.30833G	-53.03	2.39222G	-52.41	2.4835G	-51.12	2.48406G	-49.82	15.04249G	-39.96	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom-DTS	Pass	2.40146G	9.46	-20.54	2.13854G	-53.27	2.4G	-21.73	2.4G	-21.96	2.48849G	-51.48	23.54054G	-39.60	1
2440MHz_TnomVnom-DTS	Pass	2.40146G	9.46	-20.54	2.13472G	-52.75	2.39086G	-52.39	2.4835G	-54.57	2.49882G	-51.28	24.54445G	-39.76	1
2480MHz_TnomVnom-DTS	Pass	2.40146G	9.46	-20.54	2.30098G	-53.21	2.39349G	-52.45	2.4835G	-47.96	2.48393G	-47.39	24.87346G	-39.21	1

BT-LE(1Mbps)

CSEndB-DTS

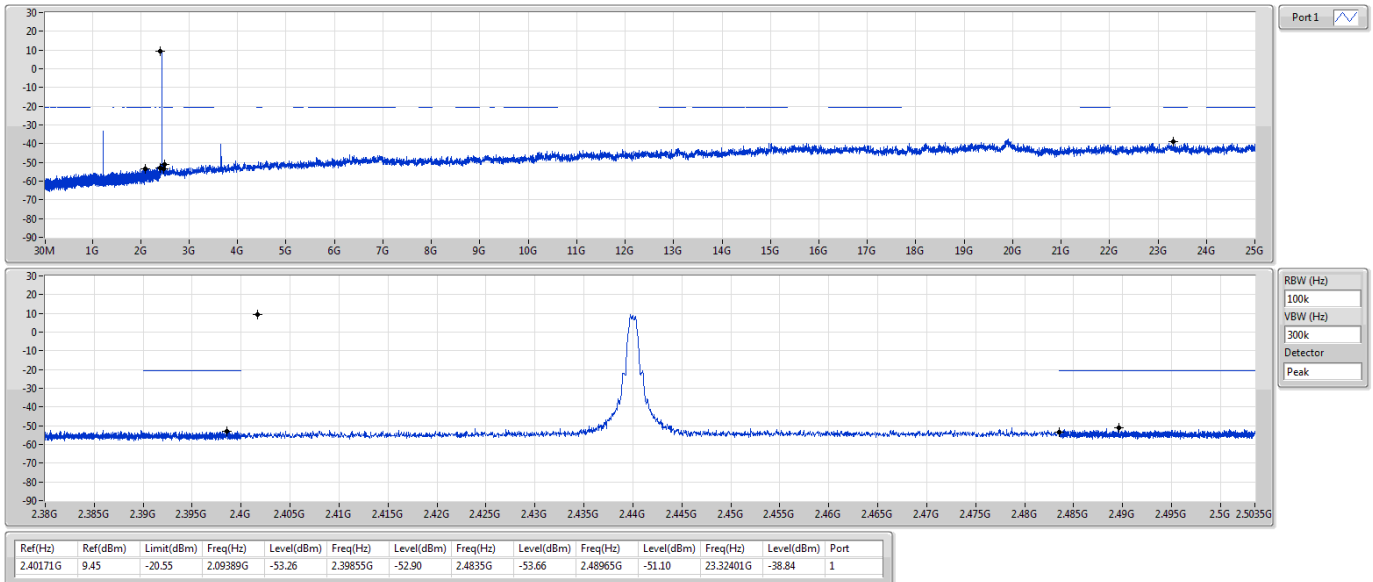
2402MHz



BT-LE(1Mbps)

CSEndB-DTS

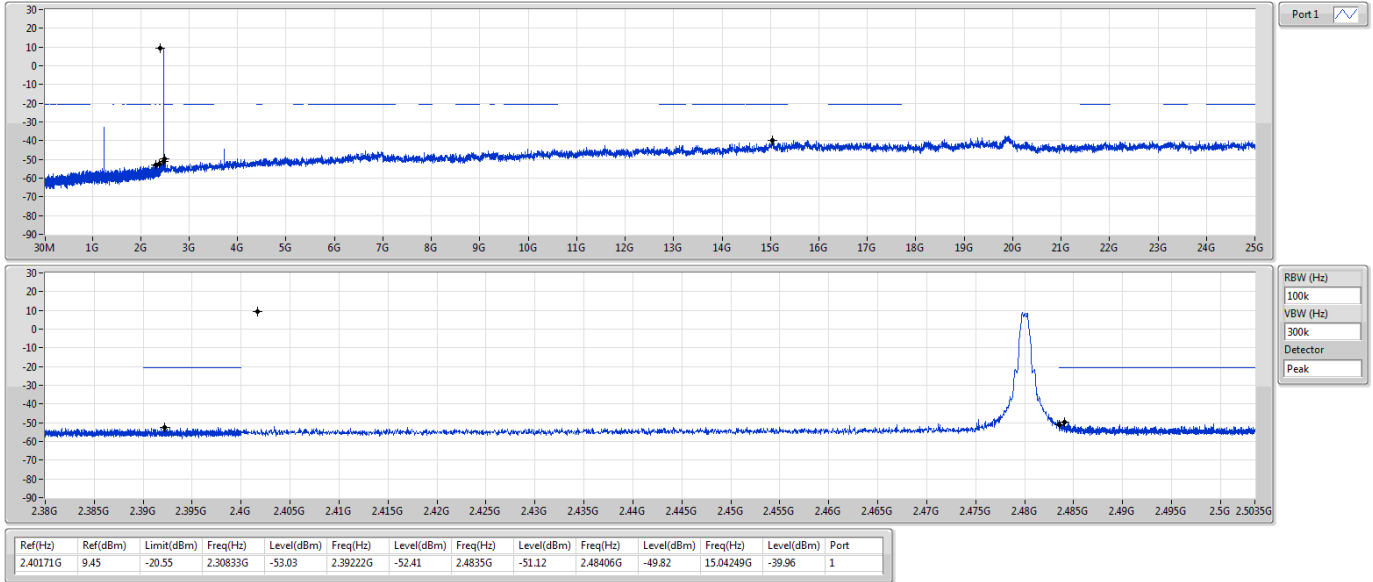
2440MHz



BT-LE(1Mbps)

CSEndB-DTS

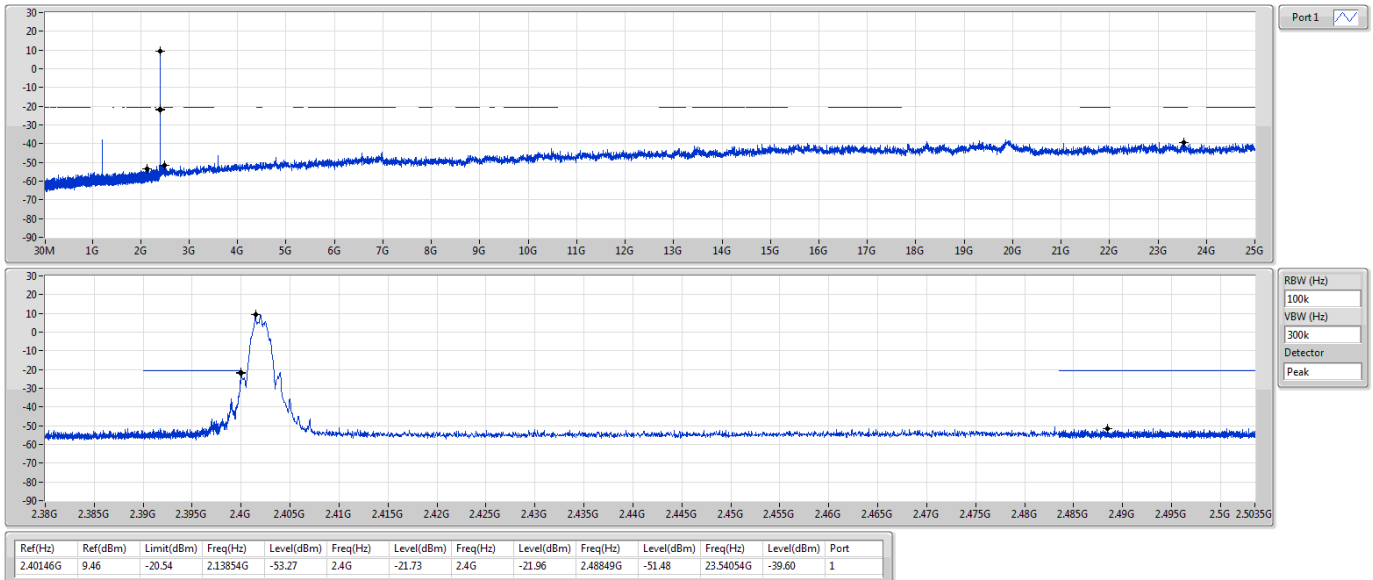
2480MHz



BT-LE(2Mbps)

CSEndB-DTS

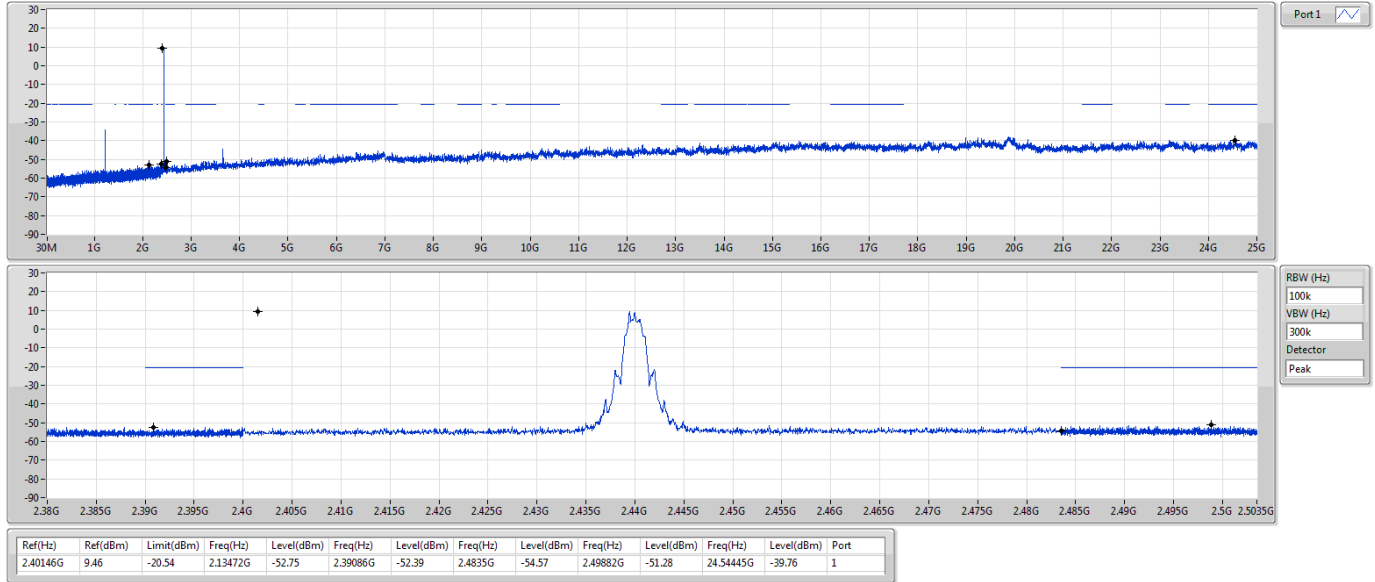
2402MHz



BT-LE(2Mbps)

CSEndB-DTS

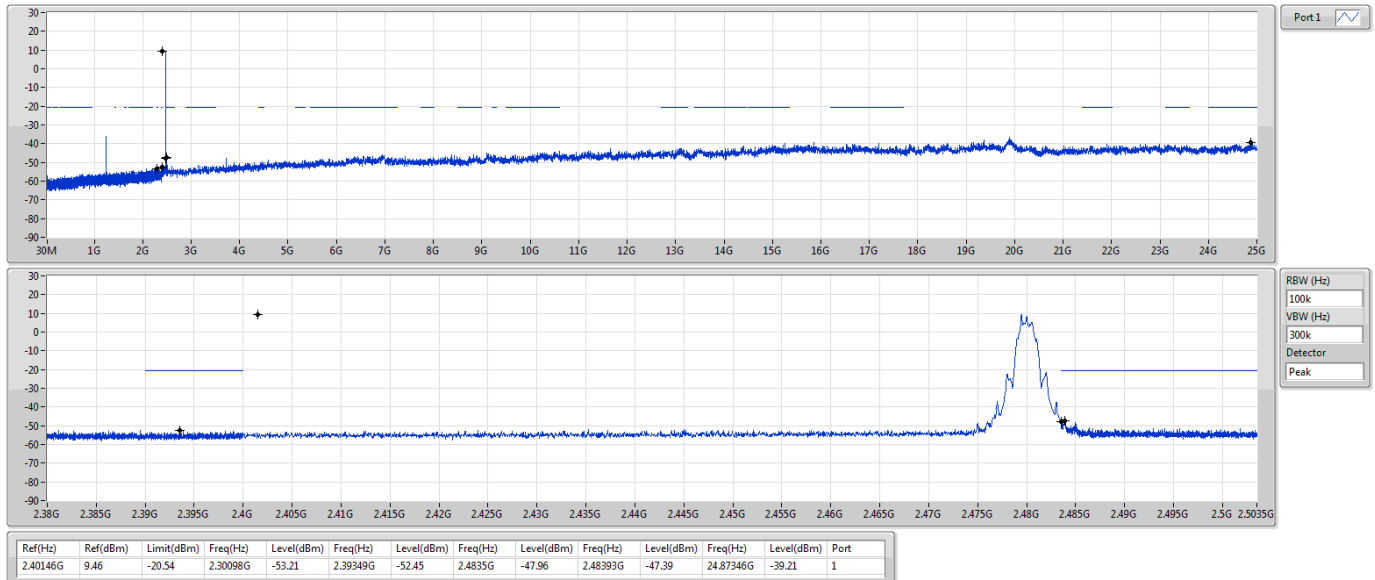
2440MHz



BT-LE(2Mbps)

CSEndB-DTS

2480MHz





Summary

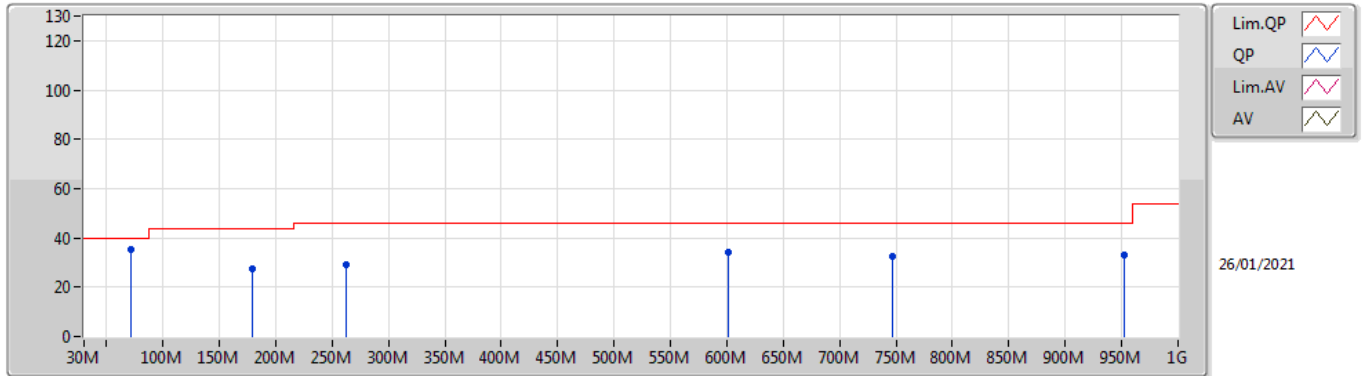
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	71.71M	35.52	40.00	-4.48	3	Vertical	0	1.00	-

**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	71.71M	35.52	40.00	-4.48	3	Vertical	0	1.00	-
2440MHz	Pass	PK	179.31M	27.33	43.50	-16.17	3	Vertical	0	1.00	-
2440MHz	Pass	PK	262.54M	28.89	46.00	-17.11	3	Vertical	0	1.00	-
2440MHz	Pass	PK	601.75M	34.34	46.00	-11.66	3	Vertical	0	1.00	-
2440MHz	Pass	PK	747.12M	32.71	46.00	-13.29	3	Vertical	0	1.00	-
2440MHz	Pass	PK	952.35M	33.09	46.00	-12.91	3	Vertical	0	1.00	-
2440MHz	Pass	PK	31.94M	24.58	40.00	-15.42	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	183.22M	26.54	43.50	-16.96	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	299.12M	28.74	46.00	-17.26	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	390.58M	31.58	46.00	-14.42	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	623.77M	36.29	46.00	-9.71	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	952.2M	31.98	46.00	-14.02	3	Horizontal	360	1.00	-

BT-LE(2Mbps)

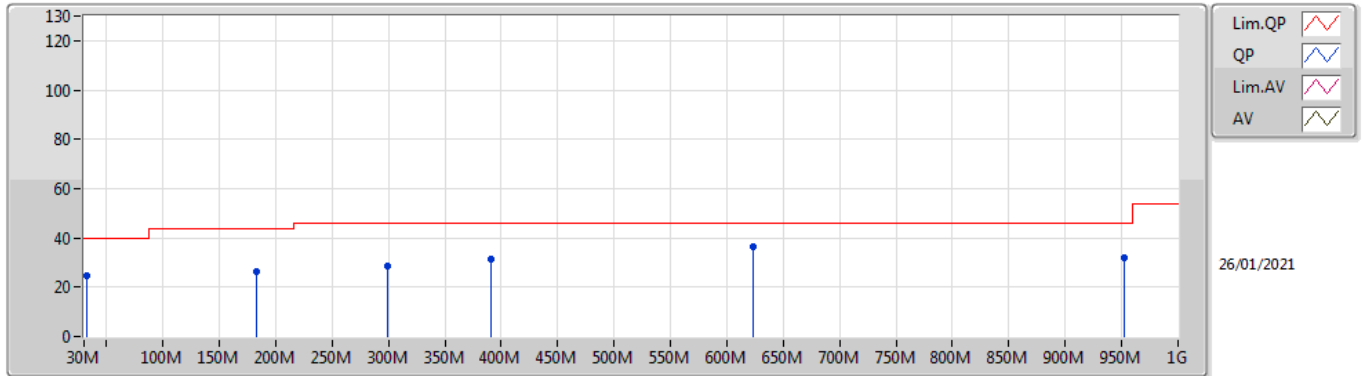
2440MHz_USB



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	71.71M	35.52	40.00	-4.48	-14.79	3	Vertical	0	1.00	-	50.31	11.33	1.33	27.45
PK	179.31M	27.33	43.50	-16.17	-10.24	3	Vertical	0	1.00	-	37.57	14.59	2.19	27.02
PK	262.54M	28.89	46.00	-17.11	-5.26	3	Vertical	0	1.00	-	34.15	18.75	2.68	26.69
PK	601.75M	34.34	46.00	-11.66	-0.04	3	Vertical	0	1.00	-	34.38	23.86	4.11	28.01
PK	747.12M	32.71	46.00	-13.29	2.16	3	Vertical	0	1.00	-	30.55	25.58	4.59	28.01
PK	952.35M	33.09	46.00	-12.91	4.43	3	Vertical	0	1.00	-	28.66	26.39	5.40	27.36

BT-LE(2Mbps)

2440MHz_USB



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	31.94M	24.58	40.00	-15.42	-4.56	3	Horizontal	360	1.00	-	29.14	22.11	0.90	27.57
PK	183.22M	26.54	43.50	-16.96	-10.34	3	Horizontal	360	1.00	-	36.88	14.44	2.22	27.00
PK	299.12M	28.74	46.00	-17.26	-5.39	3	Horizontal	360	1.00	-	34.13	18.37	2.89	26.65
PK	390.58M	31.58	46.00	-14.42	-3.32	3	Horizontal	360	1.00	-	34.90	20.61	3.26	27.19
PK	623.77M	36.29	46.00	-9.71	0.23	3	Horizontal	360	1.00	-	36.06	24.08	4.20	28.05
PK	952.2M	31.98	46.00	-14.02	4.42	3	Horizontal	360	1.00	-	27.56	26.38	5.40	27.36



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	2.488G	49.59	54.00	-4.41	3	Horizontal	143	1.68	-
BT-LE(2Mbps)	Pass	AV	2.4835G	52.78	54.00	-1.22	3	Horizontal	143	1.67	-

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	2.386G	48.72	54.00	-5.28	3	Vertical	244	1.98	-
2402MHz	Pass	AV	2.402G	92.82	Inf	-Inf	3	Vertical	244	1.98	-
2402MHz	Pass	PK	2.38G	59.57	74.00	-14.43	3	Vertical	244	1.98	-
2402MHz	Pass	PK	2.4022G	93.79	Inf	-Inf	3	Vertical	244	1.98	-
2402MHz	Pass	AV	2.3824G	48.45	54.00	-5.55	3	Horizontal	126	2.57	-
2402MHz	Pass	AV	2.402G	98.32	Inf	-Inf	3	Horizontal	126	2.57	-
2402MHz	Pass	PK	2.3608G	58.86	74.00	-15.14	3	Horizontal	126	2.57	-
2402MHz	Pass	PK	2.4022G	99.24	Inf	-Inf	3	Horizontal	126	2.57	-
2402MHz	Pass	AV	4.8035G	35.58	54.00	-18.42	3	Vertical	87	1.76	-
2402MHz	Pass	PK	4.80345G	47.27	74.00	-26.73	3	Vertical	87	1.76	-
2402MHz	Pass	AV	4.80365G	35.82	54.00	-18.18	3	Horizontal	314	1.68	-
2402MHz	Pass	PK	4.80435G	47.70	74.00	-26.30	3	Horizontal	314	1.68	-
2440MHz	Pass	AV	2.3836G	48.69	54.00	-5.31	3	Vertical	252	2.52	-
2440MHz	Pass	AV	2.44G	95.05	Inf	-Inf	3	Vertical	252	2.52	-
2440MHz	Pass	AV	2.496G	49.10	54.00	-4.90	3	Vertical	252	2.52	-
2440MHz	Pass	PK	2.3556G	59.20	74.00	-14.80	3	Vertical	252	2.52	-
2440MHz	Pass	PK	2.44G	95.98	Inf	-Inf	3	Vertical	252	2.52	-
2440MHz	Pass	PK	2.4952G	59.34	74.00	-14.66	3	Vertical	252	2.52	-
2440MHz	Pass	AV	2.3748G	48.67	54.00	-5.33	3	Horizontal	141	2.86	-
2440MHz	Pass	AV	2.44G	102.33	Inf	-Inf	3	Horizontal	141	2.86	-
2440MHz	Pass	AV	2.4912G	49.10	54.00	-4.90	3	Horizontal	141	2.86	-
2440MHz	Pass	PK	2.3432G	59.68	74.00	-14.32	3	Horizontal	141	2.86	-
2440MHz	Pass	PK	2.4404G	103.28	Inf	-Inf	3	Horizontal	141	2.86	-
2440MHz	Pass	PK	2.4884G	59.02	74.00	-14.98	3	Horizontal	141	2.86	-
2440MHz	Pass	AV	4.88071G	35.77	54.00	-18.23	3	Vertical	113	2.09	-
2440MHz	Pass	PK	4.88092G	46.97	74.00	-27.03	3	Vertical	113	2.09	-
2440MHz	Pass	AV	4.87946G	35.52	54.00	-18.48	3	Horizontal	226	2.10	-
2440MHz	Pass	PK	4.87975G	46.35	74.00	-27.65	3	Horizontal	226	2.10	-
2480MHz	Pass	AV	2.48G	95.14	Inf	-Inf	3	Vertical	237	1.19	-
2480MHz	Pass	AV	2.4852G	49.10	54.00	-4.90	3	Vertical	237	1.19	-
2480MHz	Pass	PK	2.4802G	96.10	Inf	-Inf	3	Vertical	237	1.19	-
2480MHz	Pass	PK	2.4956G	59.87	74.00	-14.13	3	Vertical	237	1.19	-
2480MHz	Pass	AV	2.48G	101.78	Inf	-Inf	3	Horizontal	143	1.68	-
2480MHz	Pass	AV	2.488G	49.59	54.00	-4.41	3	Horizontal	143	1.68	-
2480MHz	Pass	PK	2.4804G	102.69	Inf	-Inf	3	Horizontal	143	1.68	-
2480MHz	Pass	PK	2.4835G	60.43	74.00	-13.57	3	Horizontal	143	1.68	-
2480MHz	Pass	AV	4.95934G	36.11	54.00	-17.89	3	Vertical	207	1.36	-
2480MHz	Pass	PK	4.96082G	46.98	74.00	-27.02	3	Vertical	207	1.36	-
2480MHz	Pass	AV	4.95994G	36.11	54.00	-17.89	3	Horizontal	12	2.46	-
2480MHz	Pass	PK	4.95989G	47.42	74.00	-26.58	3	Horizontal	12	2.46	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3856G	50.09	54.00	-3.91	3	Vertical	243	1.98	-
2402MHz	Pass	AV	2.402G	91.78	Inf	-Inf	3	Vertical	243	1.98	-
2402MHz	Pass	PK	2.3566G	59.48	74.00	-14.52	3	Vertical	243	1.98	-
2402MHz	Pass	PK	2.4026G	94.05	Inf	-Inf	3	Vertical	243	1.98	-
2402MHz	Pass	AV	2.386G	50.31	54.00	-3.69	3	Horizontal	141	2.57	-
2402MHz	Pass	AV	2.402G	99.30	Inf	-Inf	3	Horizontal	141	2.57	-
2402MHz	Pass	PK	2.3798G	59.21	74.00	-14.79	3	Horizontal	141	2.57	-
2402MHz	Pass	PK	2.4026G	101.51	Inf	-Inf	3	Horizontal	141	2.57	-
2402MHz	Pass	AV	4.8036G	37.63	54.00	-16.37	3	Vertical	108	1.50	-
2402MHz	Pass	PK	4.80466G	46.77	74.00	-27.23	3	Vertical	108	1.50	-
2402MHz	Pass	AV	4.80406G	37.63	54.00	-16.37	3	Horizontal	237	2.13	-
2402MHz	Pass	PK	4.80444G	47.20	74.00	-26.80	3	Horizontal	237	2.13	-
2440MHz	Pass	AV	2.386G	50.10	54.00	-3.90	3	Vertical	252	2.52	-
2440MHz	Pass	AV	2.44G	93.70	Inf	-Inf	3	Vertical	252	2.52	-
2440MHz	Pass	AV	2.4964G	50.51	54.00	-3.49	3	Vertical	252	2.52	-
2440MHz	Pass	PK	2.3472G	59.05	74.00	-14.95	3	Vertical	252	2.52	-
2440MHz	Pass	PK	2.4408G	95.95	Inf	-Inf	3	Vertical	252	2.52	-
2440MHz	Pass	PK	2.4835G	59.01	74.00	-14.99	3	Vertical	252	2.52	-
2440MHz	Pass	AV	2.3424G	50.18	54.00	-3.82	3	Horizontal	142	2.86	-



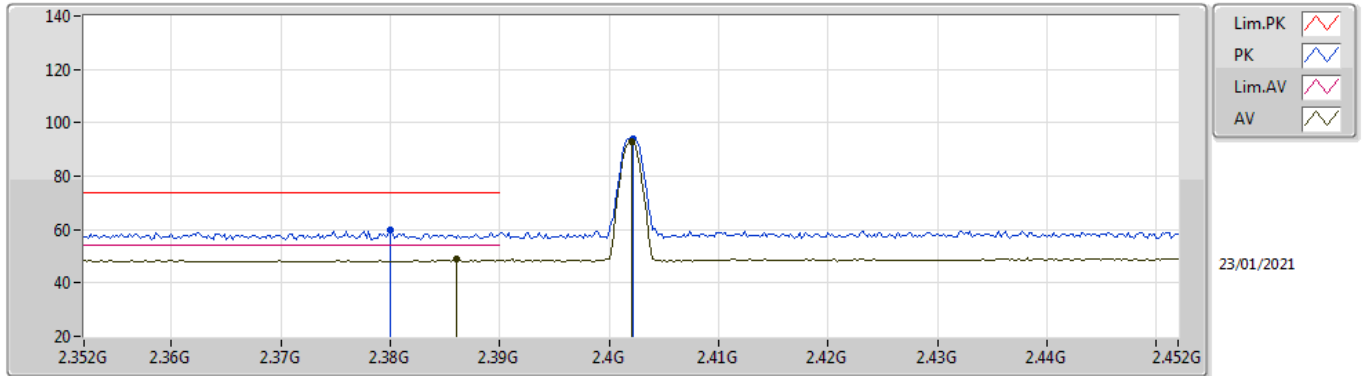
RSE TX above 1GHz

Appendix F.2

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	101.00	Inf	-Inf	3	Horizontal	142	2.86	-
2440MHz	Pass	AV	2.4876G	50.93	54.00	-3.07	3	Horizontal	142	2.86	-
2440MHz	Pass	PK	2.3444G	58.61	74.00	-15.39	3	Horizontal	142	2.86	-
2440MHz	Pass	PK	2.4408G	103.30	Inf	-Inf	3	Horizontal	142	2.86	-
2440MHz	Pass	PK	2.5G	59.02	74.00	-14.98	3	Horizontal	142	2.86	-
2440MHz	Pass	AV	4.8801G	37.68	54.00	-16.32	3	Vertical	259	1.29	-
2440MHz	Pass	PK	4.87963G	46.39	74.00	-27.61	3	Vertical	259	1.29	-
2440MHz	Pass	AV	4.87968G	37.19	54.00	-16.81	3	Horizontal	248	2.49	-
2440MHz	Pass	PK	4.87924G	47.25	74.00	-26.75	3	Horizontal	248	2.49	-
2480MHz	Pass	AV	2.48G	93.83	Inf	-Inf	3	Vertical	237	1.20	-
2480MHz	Pass	AV	2.4874G	50.94	54.00	-3.06	3	Vertical	237	1.20	-
2480MHz	Pass	PK	2.4806G	96.13	Inf	-Inf	3	Vertical	237	1.20	-
2480MHz	Pass	PK	2.4835G	60.29	74.00	-13.71	3	Vertical	237	1.20	-
2480MHz	Pass	AV	2.48G	100.56	Inf	-Inf	3	Horizontal	143	1.67	-
2480MHz	Pass	AV	2.4835G	52.78	54.00	-1.22	3	Horizontal	143	1.67	-
2480MHz	Pass	PK	2.4806G	102.76	Inf	-Inf	3	Horizontal	143	1.67	-
2480MHz	Pass	PK	2.4835G	61.59	74.00	-12.41	3	Horizontal	143	1.67	-
2480MHz	Pass	AV	4.95924G	37.94	54.00	-16.06	3	Vertical	250	1.90	-
2480MHz	Pass	PK	4.96044G	47.38	74.00	-26.62	3	Vertical	250	1.90	-
2480MHz	Pass	AV	4.95999G	37.84	54.00	-16.16	3	Horizontal	132	1.16	-
2480MHz	Pass	PK	4.96007G	47.45	74.00	-26.55	3	Horizontal	132	1.16	-

BT-LE(1Mbps)

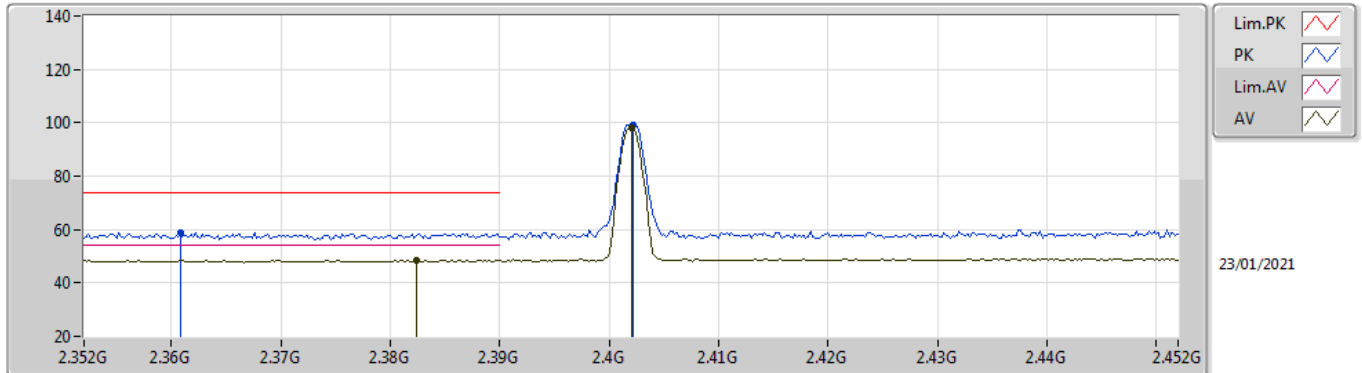
2402MHz_TX



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	2.386G	48.72	54.00	-5.28	31.92	3	Vertical	244	1.98	-	16.80	27.63	4.29	-
AV	2.402G	92.82	Inf	-Inf	31.90	3	Vertical	244	1.98	-	60.92	27.60	4.30	-
PK	2.38G	59.57	74.00	-14.43	31.92	3	Vertical	244	1.98	-	27.65	27.64	4.28	-
PK	2.402G	93.79	Inf	-Inf	31.90	3	Vertical	244	1.98	-	61.89	27.60	4.30	-

BT-LE(1Mbps)

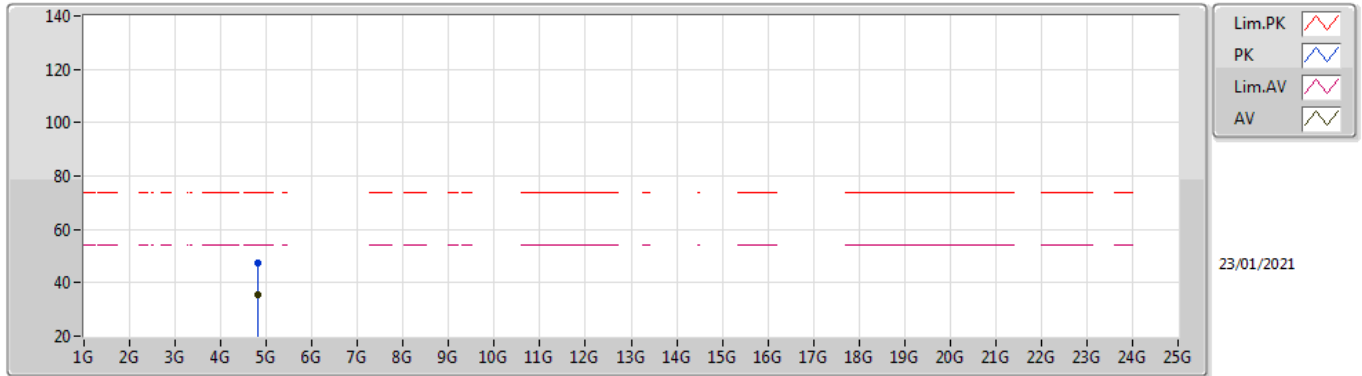
2402MHz_TX



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	2.3824G	48.45	54.00	-5.55	31.92	3	Horizontal	126	2.57	-	16.53	27.64	4.28	-
AV	2.402G	98.32	Inf	-Inf	31.90	3	Horizontal	126	2.57	-	66.42	27.60	4.30	-
PK	2.3608G	58.86	74.00	-15.14	31.94	3	Horizontal	126	2.57	-	26.92	27.68	4.26	-
PK	2.4022G	99.24	Inf	-Inf	31.90	3	Horizontal	126	2.57	-	67.34	27.60	4.30	-

BT-LE(1Mbps)

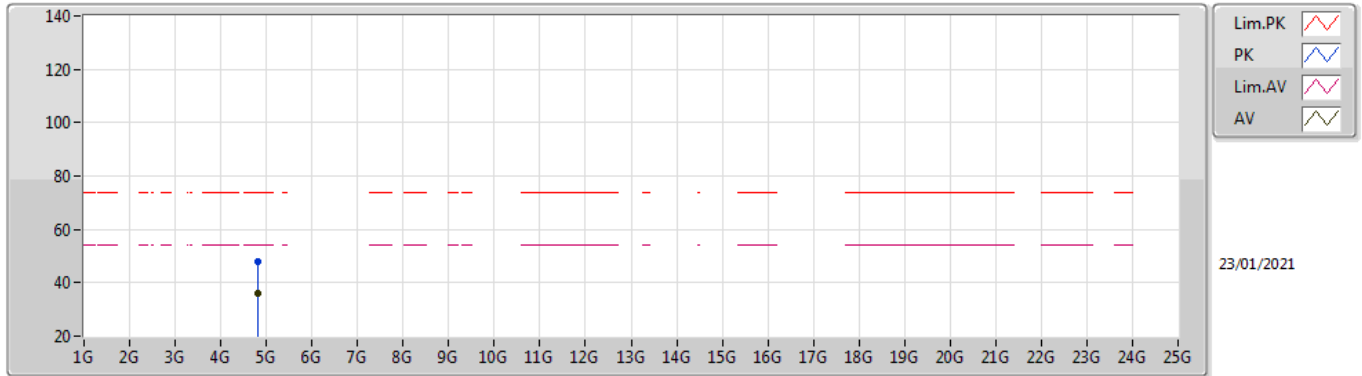
2402MHz_TX



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	4.8035G	35.58	54.00	-18.42	8.37	3	Vertical	87	1.76	-	27.21	31.10	6.50	29.23
PK	4.80345G	47.27	74.00	-26.73	8.37	3	Vertical	87	1.76	-	38.90	31.10	6.50	29.23

BT-LE(1Mbps)

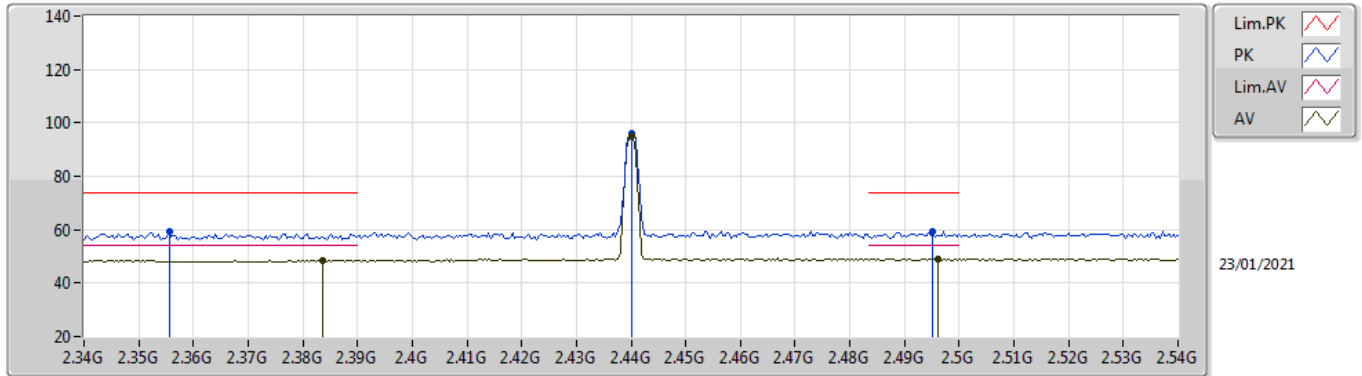
2402MHz_TX



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	4.80365G	35.82	54.00	-18.18	8.37	3	Horizontal	314	1.68	-	27.45	31.10	6.50	29.23
PK	4.80435G	47.70	74.00	-26.30	8.37	3	Horizontal	314	1.68	-	39.33	31.10	6.50	29.23

BT-LE(1Mbps)

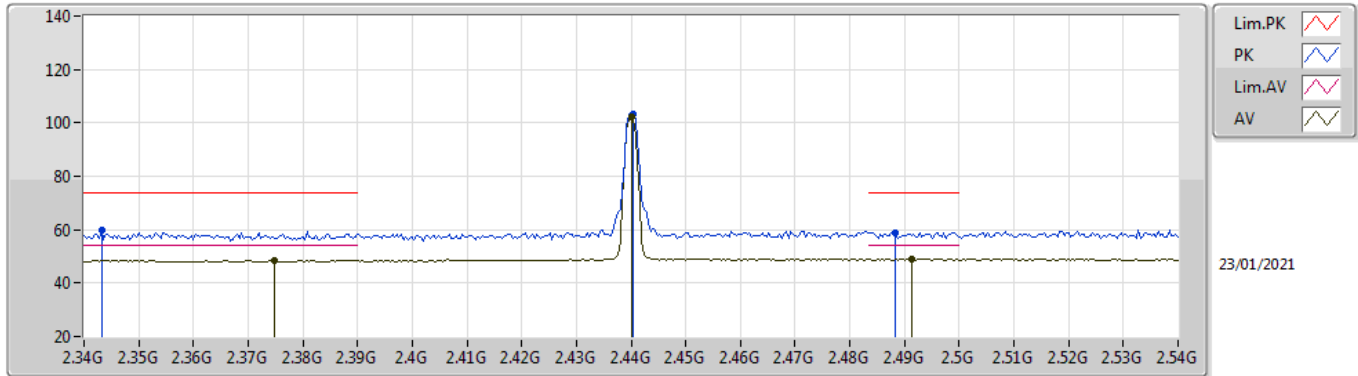
2440MHz_TX



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	2.3836G	48.69	54.00	-5.31	31.91	3	Vertical	252	2.52	-	16.78	27.63	4.28	-
AV	2.44G	95.05	Inf	-Inf	31.86	3	Vertical	252	2.52	-	63.19	27.52	4.34	-
AV	2.496G	49.10	54.00	-4.90	31.81	3	Vertical	252	2.52	-	17.29	27.41	4.40	-
PK	2.3556G	59.20	74.00	-14.80	31.95	3	Vertical	252	2.52	-	27.25	27.69	4.26	-
PK	2.44G	95.98	Inf	-Inf	31.86	3	Vertical	252	2.52	-	64.12	27.52	4.34	-
PK	2.4952G	59.34	74.00	-14.66	31.81	3	Vertical	252	2.52	-	27.53	27.41	4.40	-

BT-LE(1Mbps)

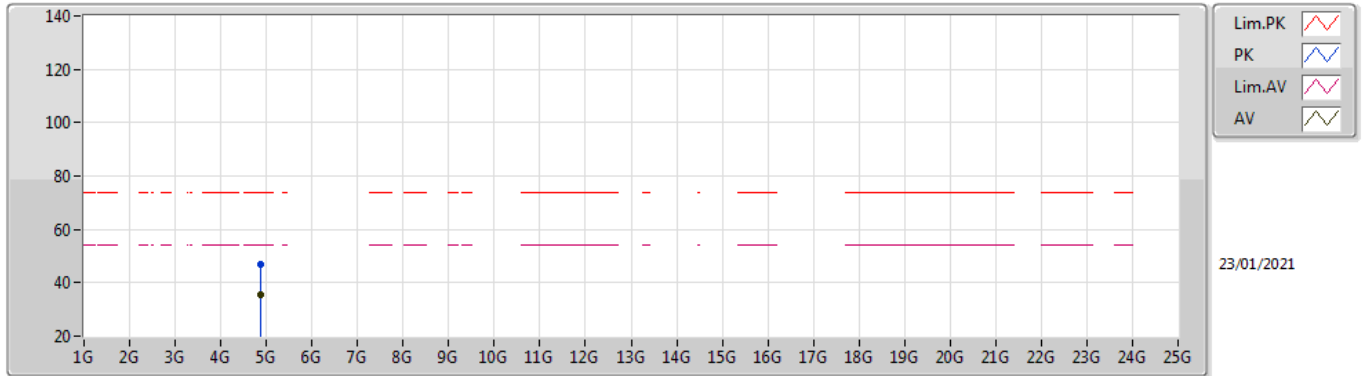
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3748G	48.67	54.00	-5.33	31.92	3	Horizontal	141	2.86	-	16.75	27.65	4.27	-
AV	2.44G	102.33	Inf	-Inf	31.86	3	Horizontal	141	2.86	-	70.47	27.52	4.34	-
AV	2.4912G	49.10	54.00	-4.90	31.81	3	Horizontal	141	2.86	-	17.29	27.42	4.39	-
PK	2.3432G	59.68	74.00	-14.32	31.97	3	Horizontal	141	2.86	-	27.71	27.73	4.24	-
PK	2.4404G	103.28	Inf	-Inf	31.86	3	Horizontal	141	2.86	-	71.42	27.52	4.34	-
PK	2.4884G	59.02	74.00	-14.98	31.81	3	Horizontal	141	2.86	-	27.21	27.42	4.39	-

BT-LE(1Mbps)

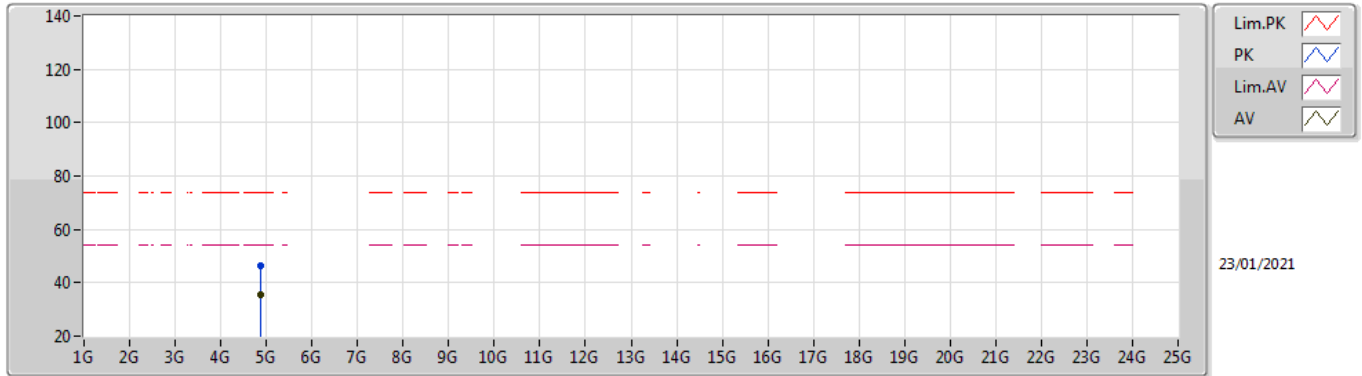
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.88071G	35.77	54.00	-18.23	8.47	3	Vertical	113	2.09	-	27.30	31.10	6.58	29.21
PK	4.88092G	46.97	74.00	-27.03	8.47	3	Vertical	113	2.09	-	38.50	31.10	6.58	29.21

BT-LE(1Mbps)

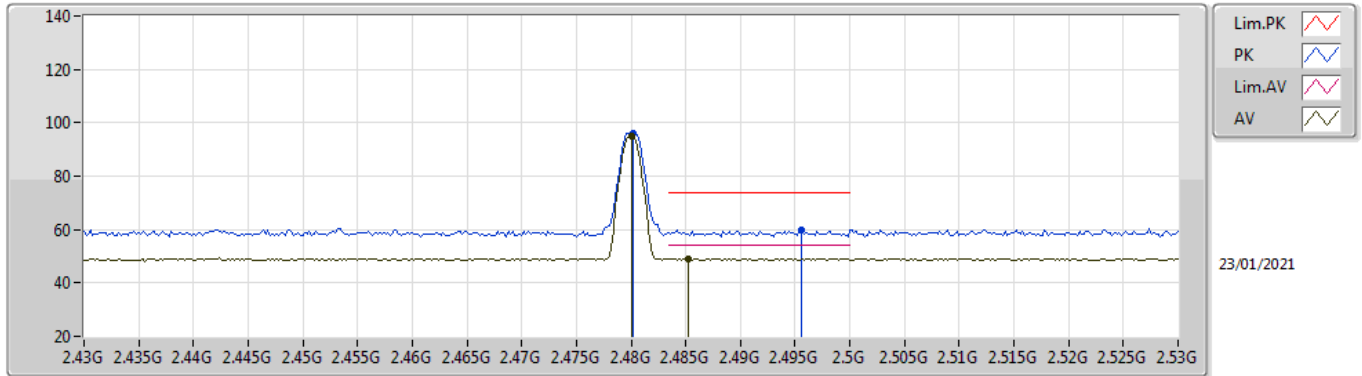
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87946G	35.52	54.00	-18.48	8.47	3	Horizontal	226	2.10	-	27.05	31.10	6.58	29.21
PK	4.87975G	46.35	74.00	-27.65	8.47	3	Horizontal	226	2.10	-	37.88	31.10	6.58	29.21

BT-LE(1Mbps)

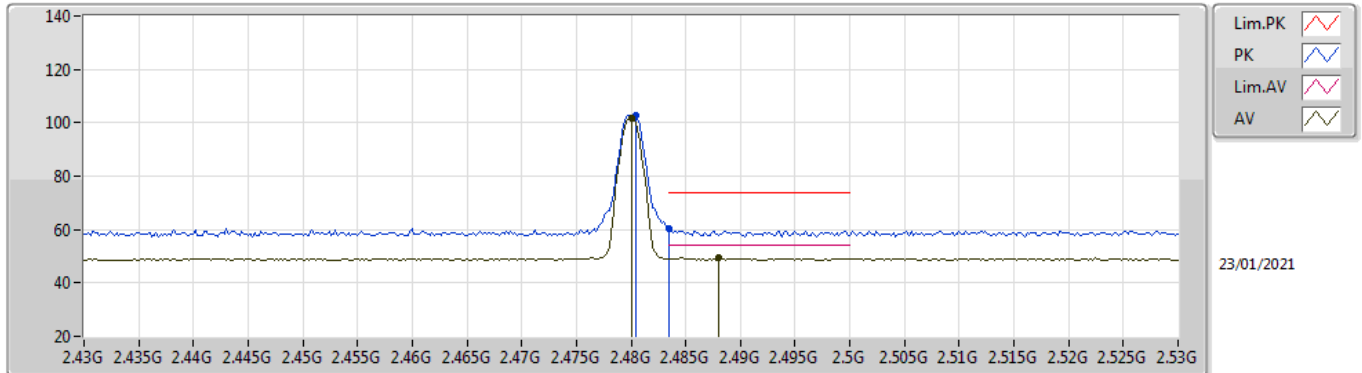
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	95.14	Inf	-Inf	31.82	3	Vertical	237	1.19	-	63.32	27.44	4.38	-
AV	2.4852G	49.10	54.00	-4.90	31.82	3	Vertical	237	1.19	-	17.28	27.43	4.39	-
PK	2.4802G	96.10	Inf	-Inf	31.82	3	Vertical	237	1.19	-	64.28	27.44	4.38	-
PK	2.4956G	59.87	74.00	-14.13	31.81	3	Vertical	237	1.19	-	28.06	27.41	4.40	-

BT-LE(1Mbps)

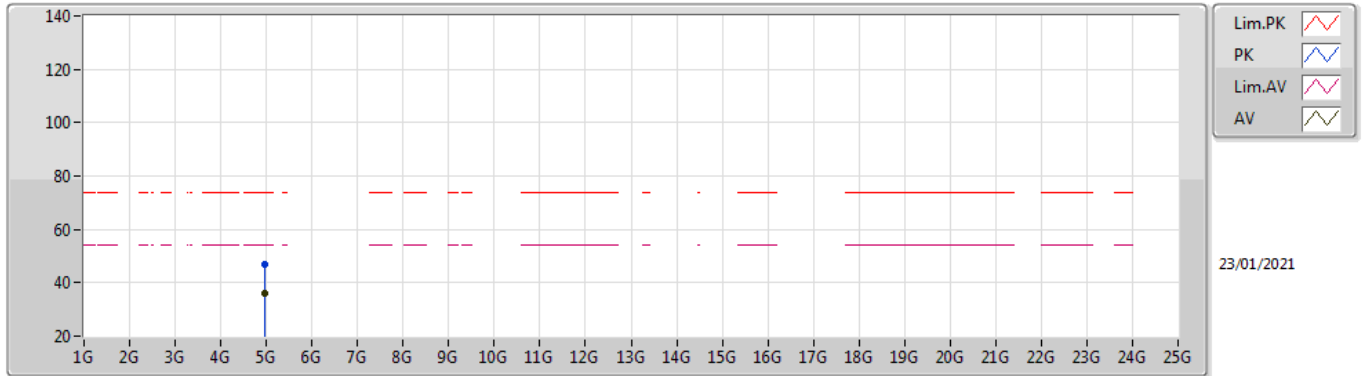
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	101.78	Inf	-Inf	31.82	3	Horizontal	143	1.68	-	69.96	27.44	4.38	-
AV	2.488G	49.59	54.00	-4.41	31.81	3	Horizontal	143	1.68	-	17.78	27.42	4.39	-
PK	2.4804G	102.69	Inf	-Inf	31.82	3	Horizontal	143	1.68	-	70.87	27.44	4.38	-
PK	2.4835G	60.43	74.00	-13.57	31.81	3	Horizontal	143	1.68	-	28.62	27.43	4.38	-

BT-LE(1Mbps)

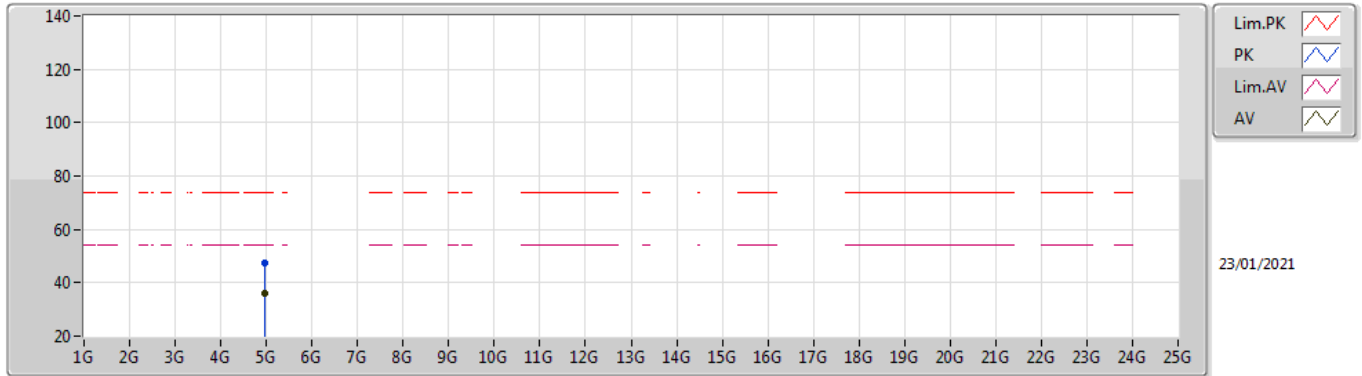
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95934G	36.11	54.00	-17.89	8.68	3	Vertical	207	1.36	-	27.43	31.20	6.66	29.18
PK	4.96082G	46.98	74.00	-27.02	8.68	3	Vertical	207	1.36	-	38.30	31.20	6.66	29.18

BT-LE(1Mbps)

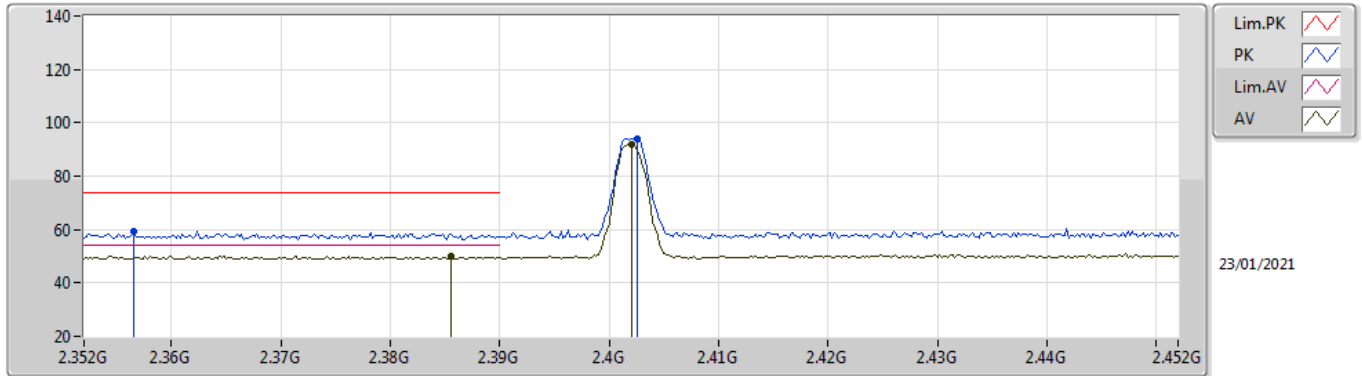
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95994G	36.11	54.00	-17.89	8.68	3	Horizontal	12	2.46	-	27.43	31.20	6.66	29.18
PK	4.95989G	47.42	74.00	-26.58	8.68	3	Horizontal	12	2.46	-	38.74	31.20	6.66	29.18

BT-LE(2Mbps)

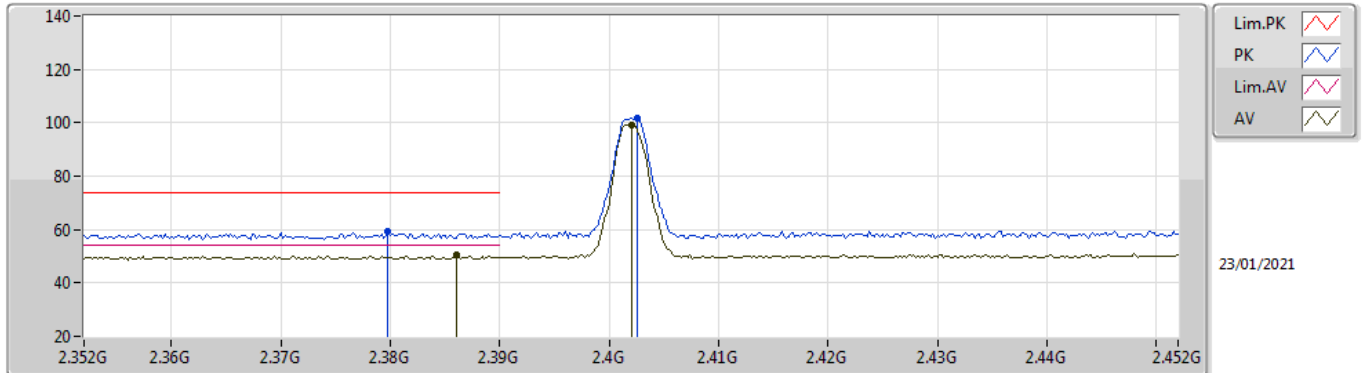
2402MHz_TX



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	2.3856G	50.09	54.00	-3.91	31.92	3	Vertical	243	1.98	-	18.17	27.63	4.29	-
AV	2.402G	91.78	Inf	-Inf	31.90	3	Vertical	243	1.98	-	59.88	27.60	4.30	-
PK	2.3566G	59.48	74.00	-14.52	31.95	3	Vertical	243	1.98	-	27.53	27.69	4.26	-
PK	2.4026G	94.05	Inf	-Inf	31.89	3	Vertical	243	1.98	-	62.16	27.59	4.30	-

BT-LE(2Mbps)

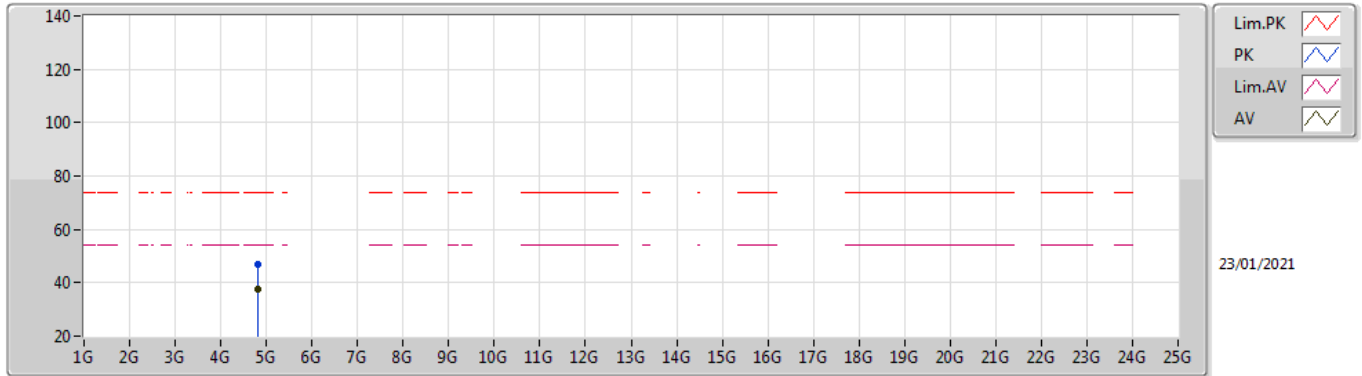
2402MHz_TX



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	2.386G	50.31	54.00	-3.69	31.92	3	Horizontal	141	2.57	-	18.39	27.63	4.29	-
AV	2.402G	99.30	Inf	-Inf	31.90	3	Horizontal	141	2.57	-	67.40	27.60	4.30	-
PK	2.3798G	59.21	74.00	-14.79	31.92	3	Horizontal	141	2.57	-	27.29	27.64	4.28	-
PK	2.4026G	101.51	Inf	-Inf	31.89	3	Horizontal	141	2.57	-	69.62	27.59	4.30	-

BT-LE(2Mbps)

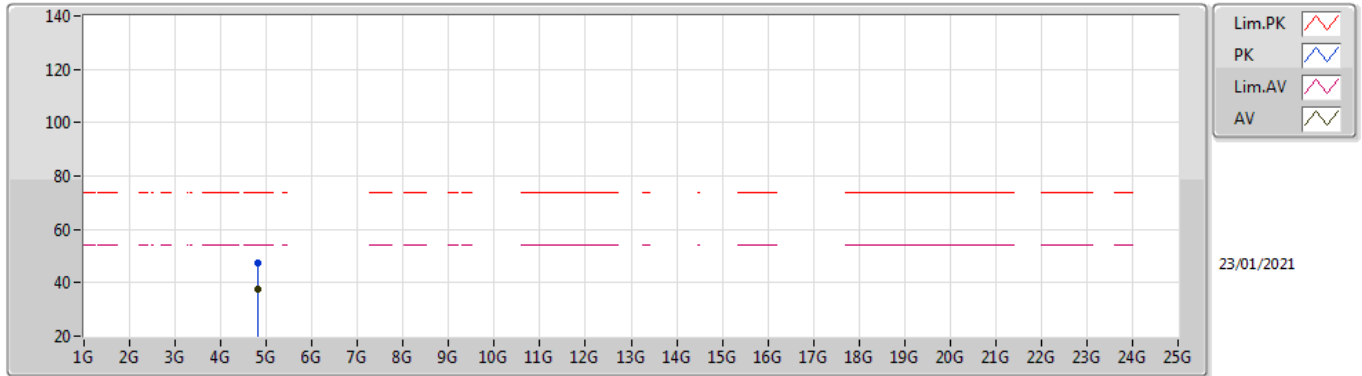
2402MHz_TX



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	4.8036G	37.63	54.00	-16.37	8.37	3	Vertical	108	1.50	-	29.26	31.10	6.50	29.23
PK	4.80466G	46.77	74.00	-27.23	8.37	3	Vertical	108	1.50	-	38.40	31.10	6.50	29.23

BT-LE(2Mbps)

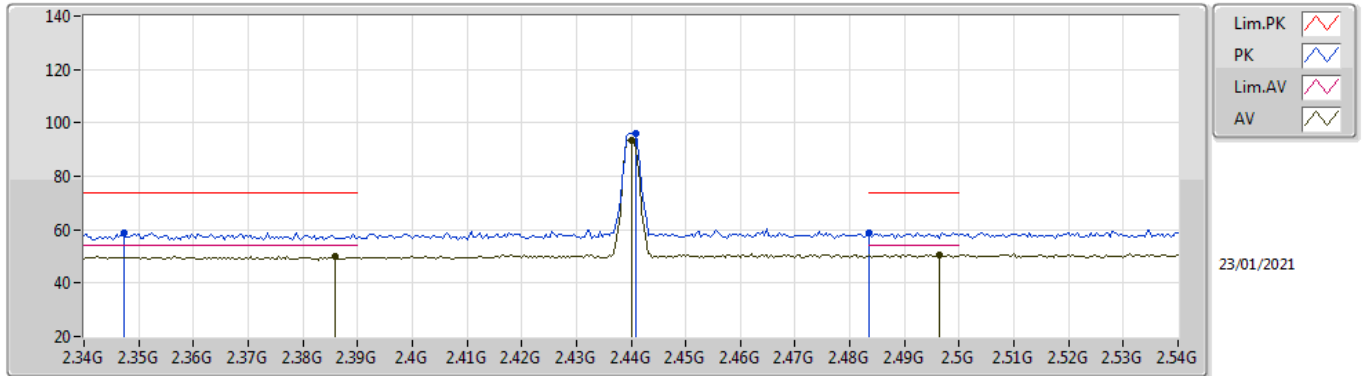
2402MHz_TX



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	4.80406G	37.63	54.00	-16.37	8.37	3	Horizontal	237	2.13	-	29.26	31.10	6.50	29.23
PK	4.80444G	47.20	74.00	-26.80	8.37	3	Horizontal	237	2.13	-	38.83	31.10	6.50	29.23

BT-LE(2Mbps)

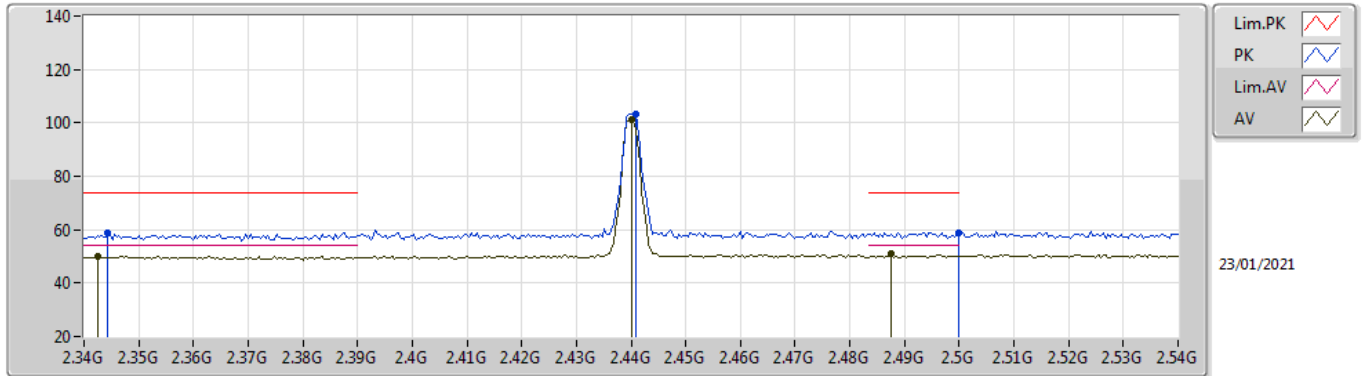
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.386G	50.10	54.00	-3.90	31.92	3	Vertical	252	2.52	-	18.18	27.63	4.29	-
AV	2.44G	93.70	Inf	-Inf	31.86	3	Vertical	252	2.52	-	61.84	27.52	4.34	-
AV	2.4964G	50.51	54.00	-3.49	31.81	3	Vertical	252	2.52	-	18.70	27.41	4.40	-
PK	2.3472G	59.05	74.00	-14.95	31.96	3	Vertical	252	2.52	-	27.09	27.71	4.25	-
PK	2.4408G	95.95	Inf	-Inf	31.86	3	Vertical	252	2.52	-	64.09	27.52	4.34	-
PK	2.4835G	59.01	74.00	-14.99	31.81	3	Vertical	252	2.52	-	27.20	27.43	4.38	-

BT-LE(2Mbps)

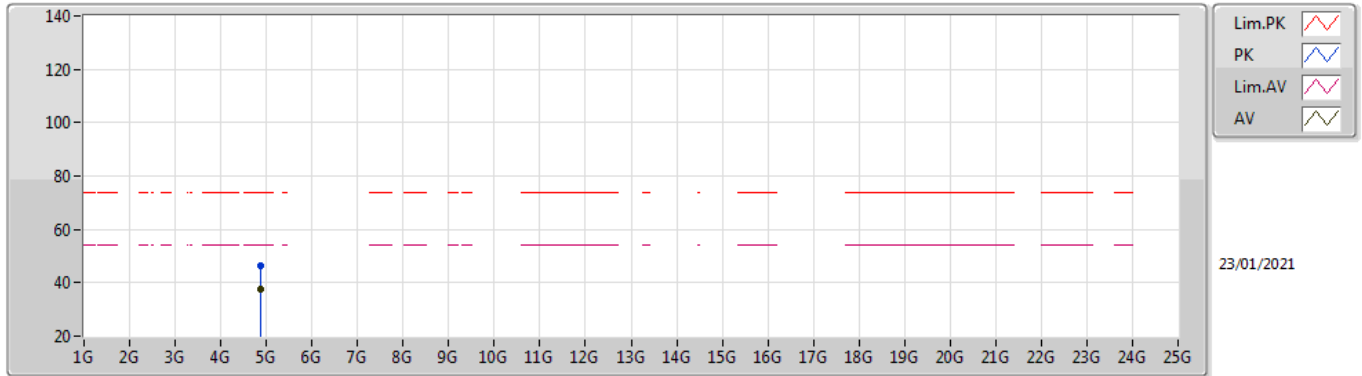
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3424G	50.18	54.00	-3.82	31.97	3	Horizontal	142	2.86	-	18.21	27.73	4.24	-
AV	2.44G	101.00	Inf	-Inf	31.86	3	Horizontal	142	2.86	-	69.14	27.52	4.34	-
AV	2.4876G	50.93	54.00	-3.07	31.81	3	Horizontal	142	2.86	-	19.12	27.42	4.39	-
PK	2.3444G	58.61	74.00	-15.39	31.96	3	Horizontal	142	2.86	-	26.65	27.72	4.24	-
PK	2.4408G	103.30	Inf	-Inf	31.86	3	Horizontal	142	2.86	-	71.44	27.52	4.34	-
PK	2.5G	59.02	74.00	-14.98	31.80	3	Horizontal	142	2.86	-	27.22	27.40	4.40	-

BT-LE(2Mbps)

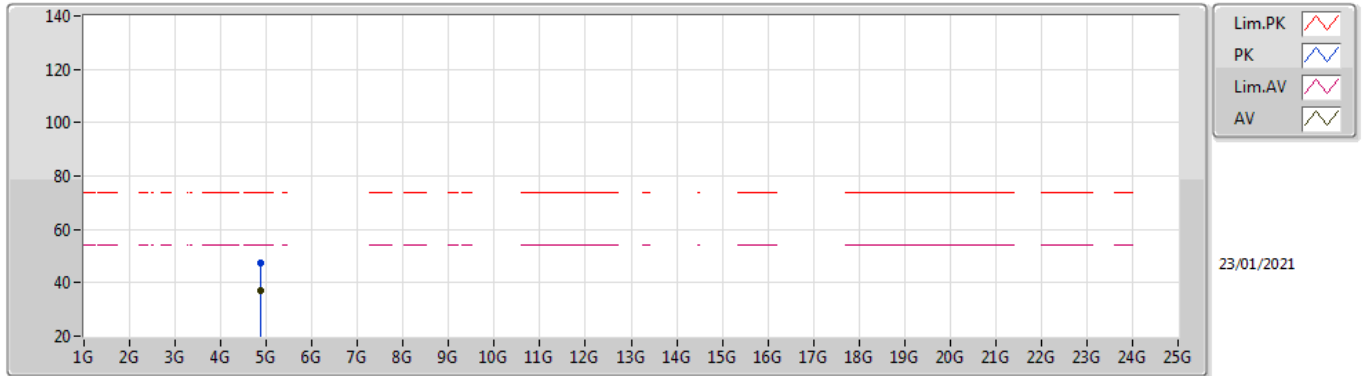
2440MHz_TX



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	4.8801G	37.68	54.00	-16.32	8.47	3	Vertical	259	1.29	-	29.21	31.10	6.58	29.21
PK	4.87963G	46.39	74.00	-27.61	8.47	3	Vertical	259	1.29	-	37.92	31.10	6.58	29.21

BT-LE(2Mbps)

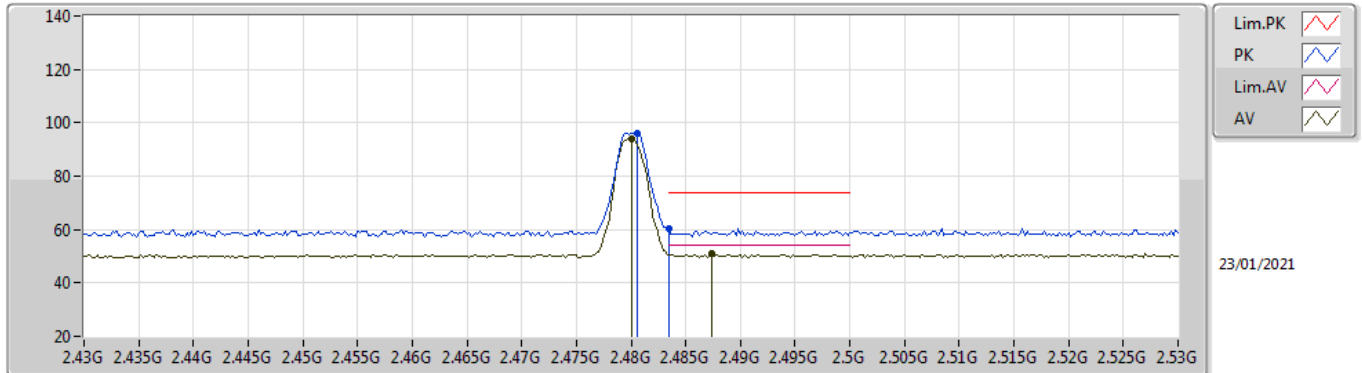
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87968G	37.19	54.00	-16.81	8.47	3	Horizontal	248	2.49	-	28.72	31.10	6.58	29.21
PK	4.87924G	47.25	74.00	-26.75	8.47	3	Horizontal	248	2.49	-	38.78	31.10	6.58	29.21

BT-LE(2Mbps)

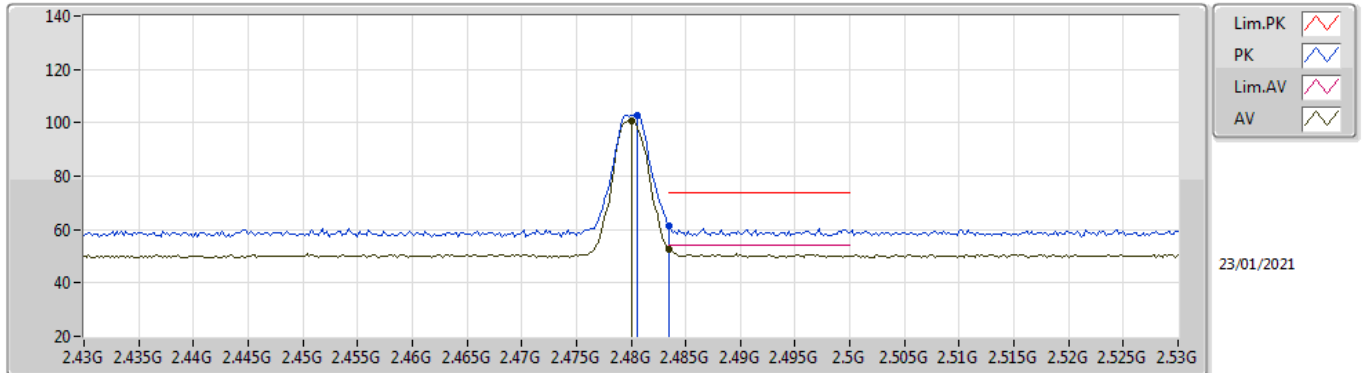
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	93.83	Inf	-Inf	31.82	3	Vertical	237	1.20	-	62.01	27.44	4.38	-
AV	2.4874G	50.94	54.00	-3.06	31.82	3	Vertical	237	1.20	-	19.12	27.43	4.39	-
PK	2.4806G	96.13	Inf	-Inf	31.82	3	Vertical	237	1.20	-	64.31	27.44	4.38	-
PK	2.4835G	60.29	74.00	-13.71	31.81	3	Vertical	237	1.20	-	28.48	27.43	4.38	-

BT-LE(2Mbps)

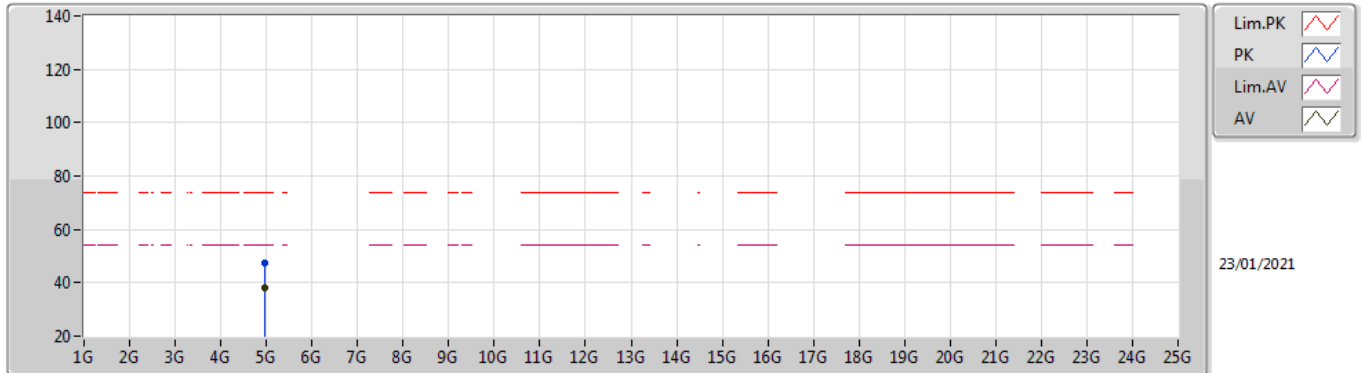
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	100.56	Inf	-Inf	31.82	3	Horizontal	143	1.67	-	68.74	27.44	4.38	-
AV	2.4835G	52.78	54.00	-1.22	31.81	3	Horizontal	143	1.67	-	20.97	27.43	4.38	-
PK	2.4806G	102.76	Inf	-Inf	31.82	3	Horizontal	143	1.67	-	70.94	27.44	4.38	-
PK	2.4835G	61.59	74.00	-12.41	31.81	3	Horizontal	143	1.67	-	29.78	27.43	4.38	-

BT-LE(2Mbps)

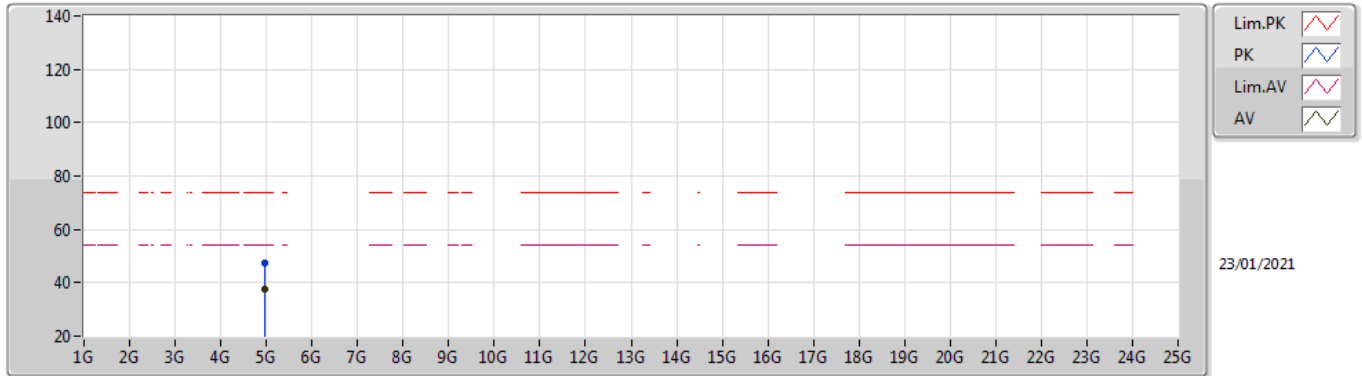
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95924G	37.94	54.00	-16.06	8.68	3	Vertical	250	1.90	-	29.26	31.20	6.66	29.18
PK	4.96044G	47.38	74.00	-26.62	8.68	3	Vertical	250	1.90	-	38.70	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	4.95999G	37.84	54.00	-16.16	8.68	3	Horizontal	132	1.16	-	29.16	31.20	6.66	29.18
PK	4.96007G	47.45	74.00	-26.55	8.68	3	Horizontal	132	1.16	-	38.77	31.20	6.66	29.18