

FCC Test Report

FCC ID : 2AFD2-IO6
Equipment : Bluetooth Headphone
Brand Name : DALI
Model Name : DALI iO-6, DALI iO-4
Applicant : DALI A/S
Dali Alle 1, 9610 Noerager, Denmark
Manufacturer : DALI A/S
Dali Alle 1, 9610 Noerager, Denmark
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 28, 2019, and testing was started from Jul. 04, 2019 and completed on Jul. 06, 2019. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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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PHOTOGRAPHS OF EUT V01



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	FCC 15.203
3.1	15.207	AC Power-line Conducted Emissions	PASS	FCC 15.207
3.2	15.247(a)	DTS Bandwidth	PASS	≥500kHz
3.3	15.247(b)	Maximum Conducted Output Power	PASS	Power [dBm]:30
3.4	15.247(e)	Power Spectral Density	PASS	PSD [dBm/3kHz]:8
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	Non-Restricted Bands: >30 dBc
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: FCC 15.209

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: Michelle Tsai

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 for DSSS.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Sage Elephant tech.	S306300001000-A	Couple Chip Antenna	NA	1.94

For Bluetooth function:

For 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 Host System/Battery
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) $\geq 1/T$
BT-LE(1Mbps)	0.635	1.97	396.875u	3k
BT-LE(2Mbps)	0.338	4.71	211.875u	10k

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

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
DALI iO-6	Model iO-6 is full function, iO-4 removed a function ANC noise reduction and button, compared to iO-6. There are two appearance colors.
DALI iO-4	

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
- ◆ KDB 558074 D01 v05r02

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.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward	22.2~23.2°C / 52.8~54.1%	06/Jul/2019
RF Conducted	TH06-HY	Gary	23.4~26°C / 64~66%	04/Jul/2019
Radiated	03CH01-HY	Edward	25.4~26.2°C / 57.8~60.4%	05/Jul/2019~06/Jul/2019

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	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	Blue Test3
-----------------------	------------

Mode	PowerSetting
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 Accessories and Support Equipment

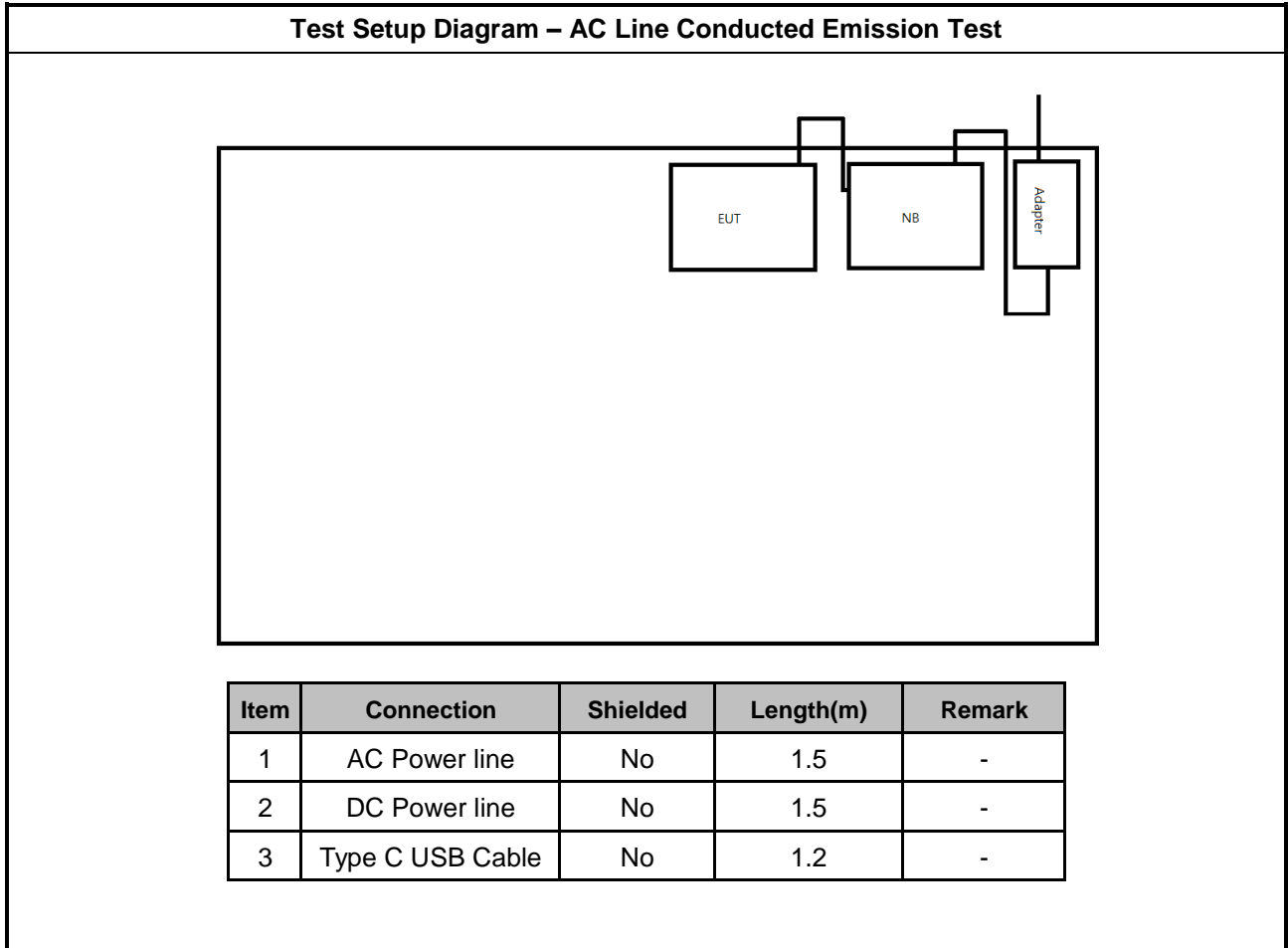
Accessories				
Battery	Brand Name	Synergy	Model Name	AHB723938PCT-02
	Power Rating	3.7 Vdc,1110mAh	Type	Li-ion
Type C USB Cable	Brand Name	DALI	Model Name	4021XW01830ZAU
	Signal Line	1.2meter, D-shielded cable, w/o ferrite core		
Audio Cable	Brand Name	DALI	Model Name	4021XW01828ZAS
	Signal Line	1.2meter, non-shielded cable, w/o ferrite core		

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

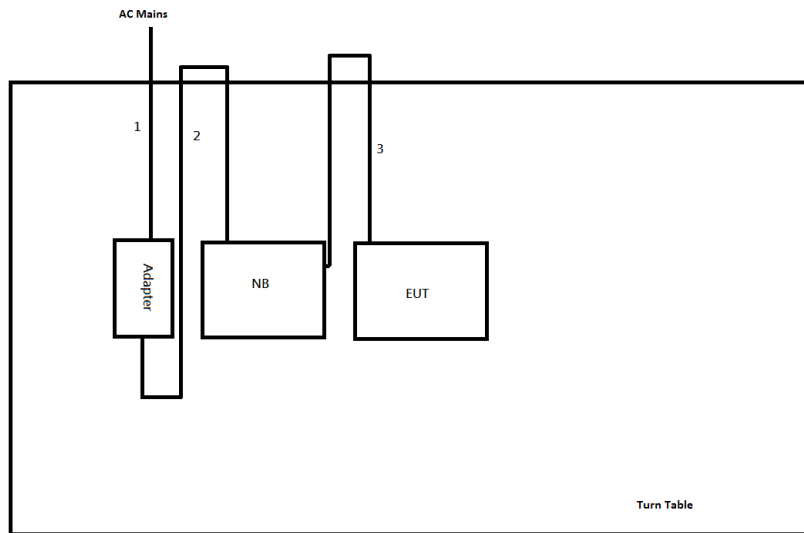
Support Equipment – AC Conduction and Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Adapter for NB	DELL	AA65NM121	DoC
2	Notebook	DELL	E5410	DoC

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

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	DC Power line	No	1.5	-
3	Type C USB Cable	No	1.2	-

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.

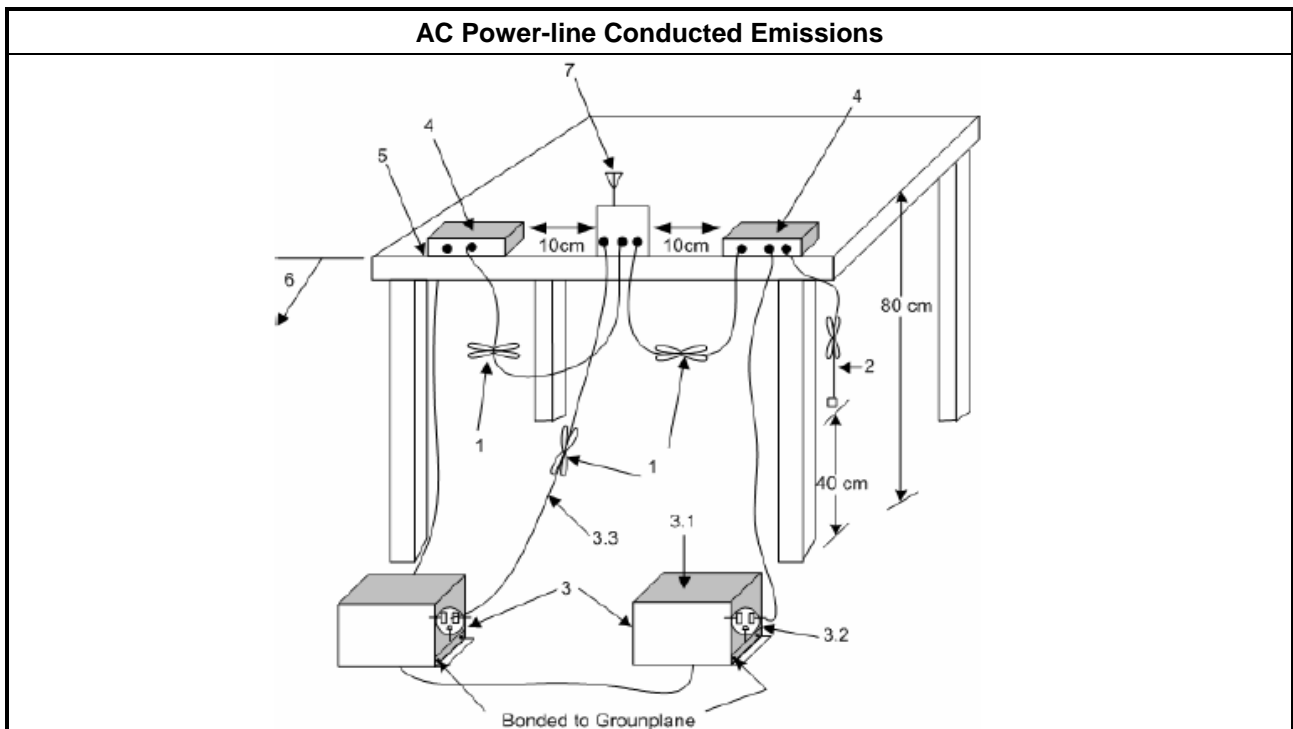
3.1.2 Measuring Instruments

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 Test Setup



3.1.5 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:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

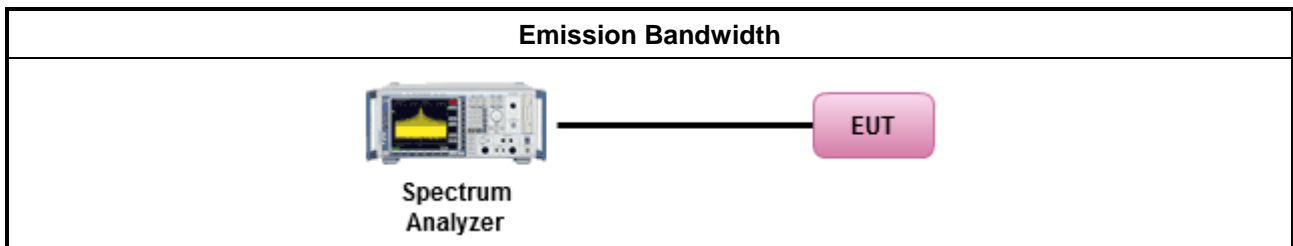
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ 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 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 $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB 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_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

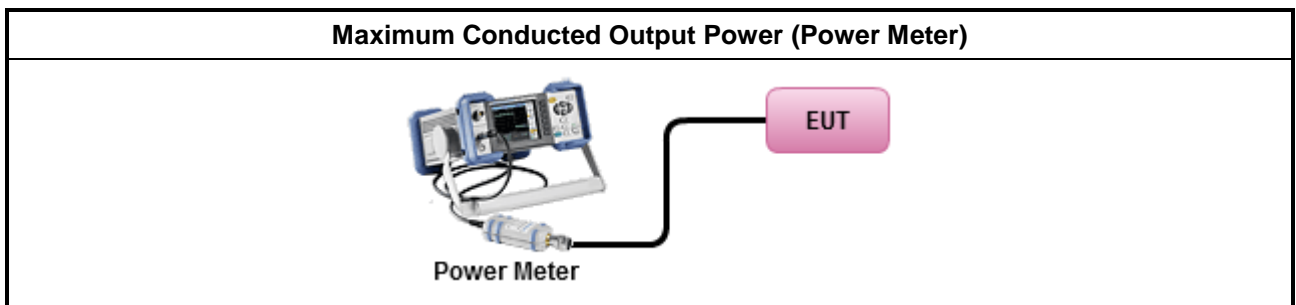
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<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

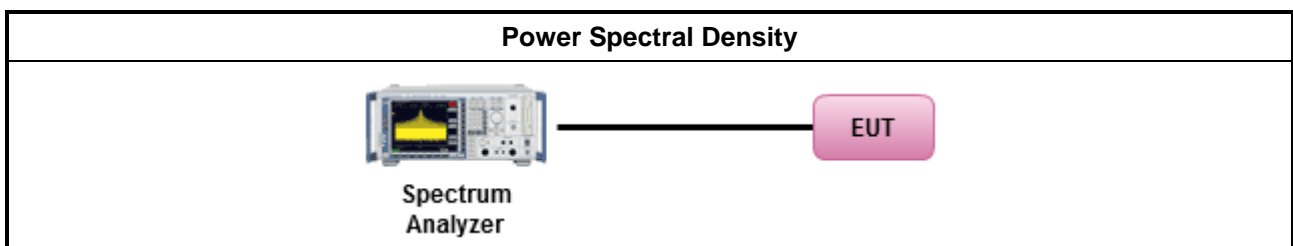
3.4.2 Measuring Instruments

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) Method PKPSD.
<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.

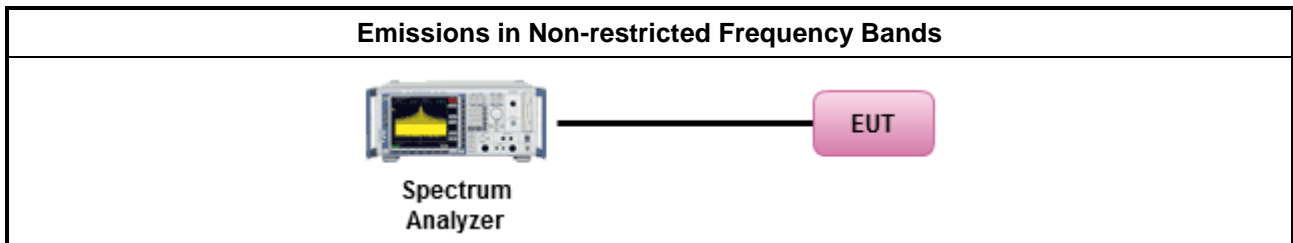
3.5.2 Measuring Instruments

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.

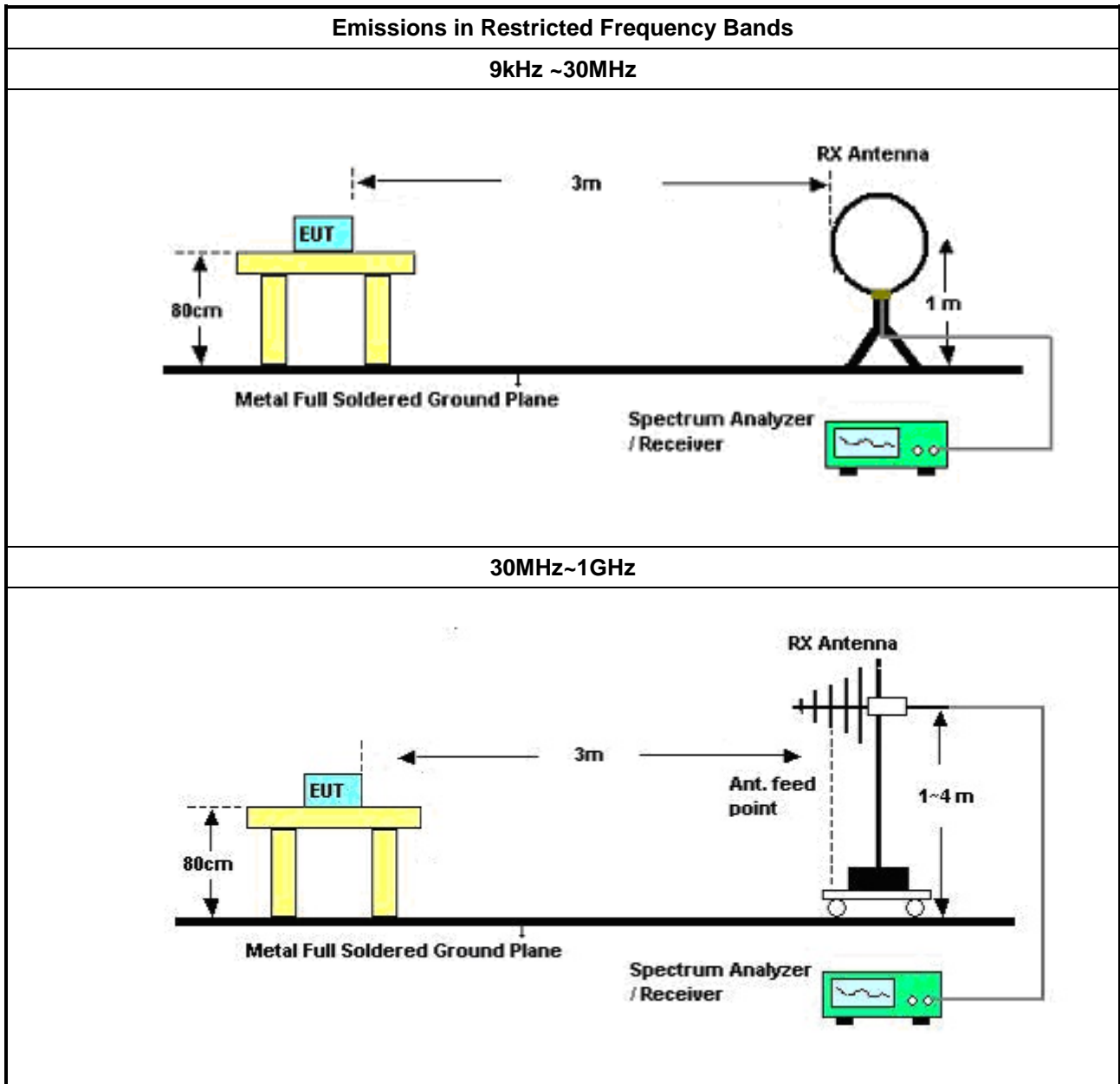
3.6.2 Measuring Instruments

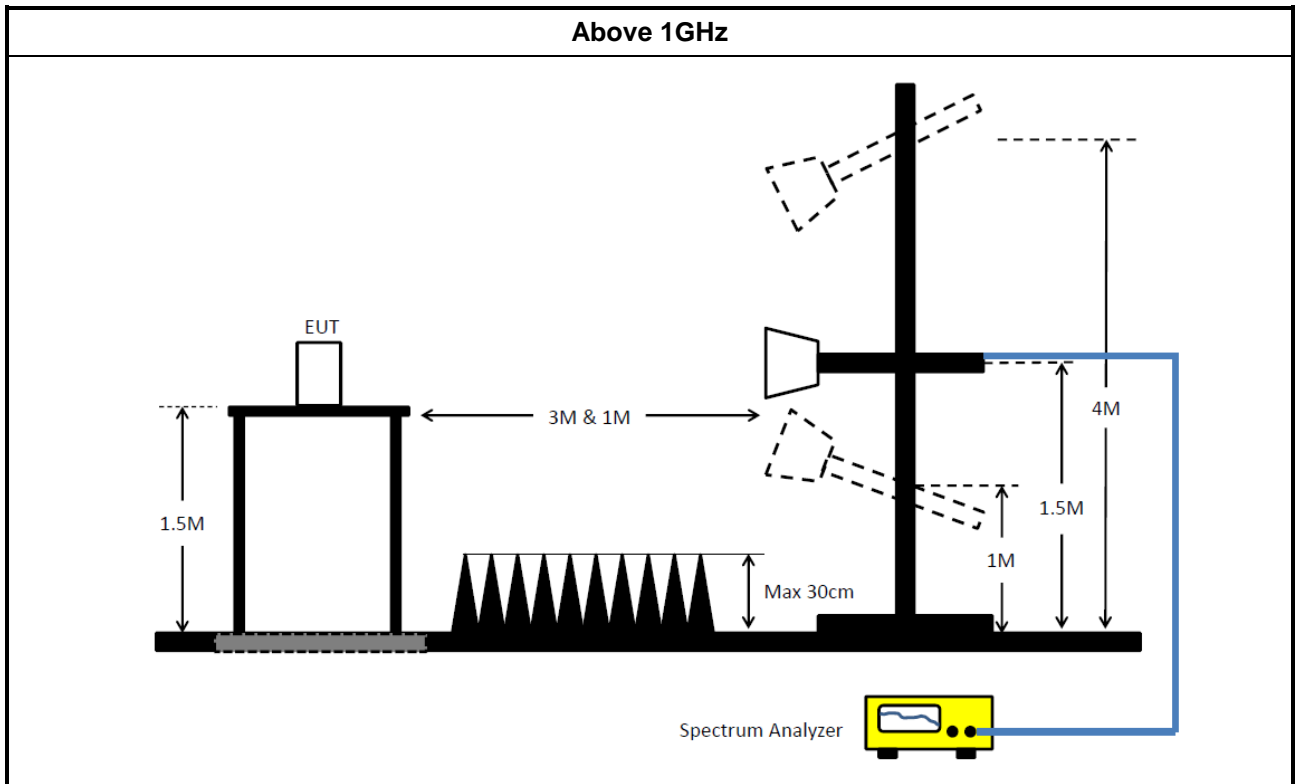
Refer a test equipment and calibration data table in this test report.

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.

3.6.4 Test Setup





3.6.5 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.

3.6.6 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
EMC Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	13/Mar/2019	12/Mar/2020
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY39470/4	RF Cable - 29	30MHz ~18G	10/Jan/2019	09/Jan/2020
CABLE 1.5m	HUBER	MY33066/4	RF Cable - 30	1 to 18GHz	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

**Instrument for Radiated Test**

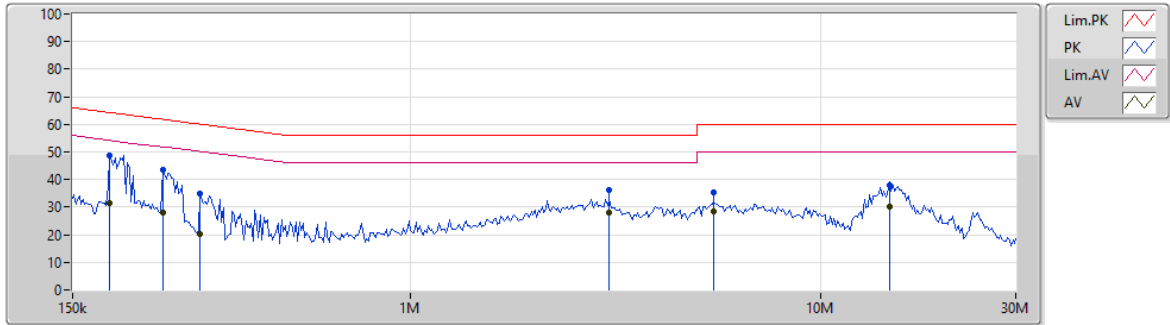
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	Riken	SAC-3M	03CH01-HY	30MHz ~ 1GHz 3m	11/Jan/2019	10/Jan/2020
3m Semi Anechoic Chamber	Riken	SAC-3M	03CH01-HY	1GHz ~ 18GHz 3m	09/Jan/2019	08/Jan/2020
PreAmplifier	COM-POWER	PA-103	161050	1 MHz ~ 1.0GHz	24/Jul/2018	23/Jul/2019
Microwave Preamplifier	Agilent	8449B	3008A02602	1GHz ~ 26.5GHz	27/Mar/2019	26/Mar/2020
Spectrum Analyzer	R&S	FSV40	101407	10Hz ~ 40GHz	16/Aug/2018	15/Aug/2019
RF Cable-R03m	Jye Bao	RG142	CB019	9kHz ~ 1GHz	14/Dec/2018	13/Dec/2019
RF Cable-HIGH	SUHNER	SUCOFLEX 104	SN805196/4+M Y39495	1 GHz ~ 18 GHz	13/Mar/2019	12/Mar/2020
Bilog Antenna & 5db Attenuator	SCHAFFNER/MTJ	CBL6112D / MTJ6102-05	2678 / 001	30MHz ~ 2GHz	13/Mar/2019	12/Mar/2020
EMI Test Receiver	R&S	ESU-26	100422	20Hz ~ 26.5GHz	25/Oct/2018	24/Oct/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170339	18GHz ~ 40GHz	19/Apr/2019	18/Apr/2020
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D-1130	1GHz ~ 18GHz	26/Oct/2018	25/Oct/2019



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	USB Mode		

06/07/2019



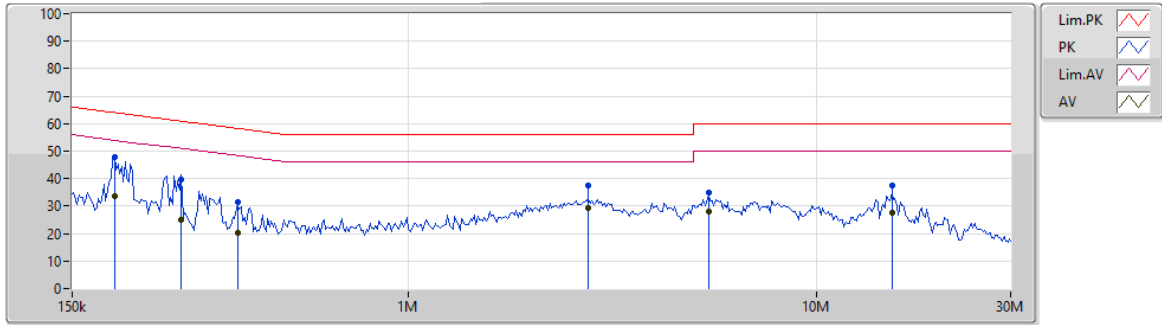
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	184.859k	48.80	64.26	-15.46	19.47	Neutral	"Worst"	29.33	9.59	0.01	9.87
AV	184.859k	31.63	54.26	-22.63	19.47	Neutral	-	12.16	9.59	0.01	9.87
QP	249.162k	43.39	61.79	-18.40	19.47	Neutral	-	23.92	9.59	0.01	9.87
AV	249.162k	27.94	51.79	-23.85	19.47	Neutral	-	8.47	9.59	0.01	9.87
QP	307.065k	34.84	60.05	-25.21	19.48	Neutral	-	15.36	9.59	0.01	9.88
AV	307.065k	20.29	50.05	-29.76	19.48	Neutral	-	0.81	9.59	0.01	9.88
QP	3.058M	36.08	56.00	-19.92	19.54	Neutral	-	16.54	9.61	0.04	9.89
AV	3.058M	27.85	46.00	-18.15	19.54	Neutral	-	8.31	9.61	0.04	9.89
QP	5.501M	35.17	60.00	-24.83	19.57	Neutral	-	15.60	9.63	0.05	9.89
AV	5.501M	28.24	50.00	-21.76	19.57	Neutral	-	8.67	9.63	0.05	9.89
QP	14.731M	37.83	60.00	-22.17	19.67	Neutral	-	18.16	9.68	0.09	9.90
AV	14.731M	30.30	50.00	-19.70	19.67	Neutral	-	10.63	9.68	0.09	9.90



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	USB Mode		

06/07/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	190.46k	47.80	64.01	-16.21	19.48	Line	"Worst"	28.32	9.60	0.01	9.87
AV	190.46k	33.78	54.01	-20.23	19.48	Line	-	14.30	9.60	0.01	9.87
QP	277.982k	39.52	60.88	-21.36	19.48	Line	-	20.04	9.60	0.01	9.87
AV	277.982k	25.04	50.88	-25.84	19.48	Line	-	5.56	9.60	0.01	9.87
QP	382.209k	31.34	58.24	-26.90	19.48	Line	-	11.86	9.59	0.01	9.88
AV	382.209k	20.19	48.24	-28.05	19.48	Line	-	0.71	9.59	0.01	9.88
QP	2.769M	37.49	56.00	-18.51	19.55	Line	-	17.94	9.62	0.04	9.89
AV	2.769M	29.14	46.00	-16.86	19.55	Line	-	9.59	9.62	0.04	9.89
QP	5.446M	35.07	60.00	-24.93	19.58	Line	-	15.49	9.64	0.05	9.89
AV	5.446M	28.07	50.00	-21.93	19.58	Line	-	8.49	9.64	0.05	9.89
QP	15.33M	37.67	60.00	-22.33	19.64	Line	-	18.03	9.65	0.09	9.90
AV	15.33M	27.43	50.00	-22.57	19.64	Line	-	7.79	9.65	0.09	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)	722.5k	1.034M	1M03F1D	713.75k	1.033M
BT-LE(2Mbps)	1.258M	2.049M	2M05F1D	1.248M	2.044M

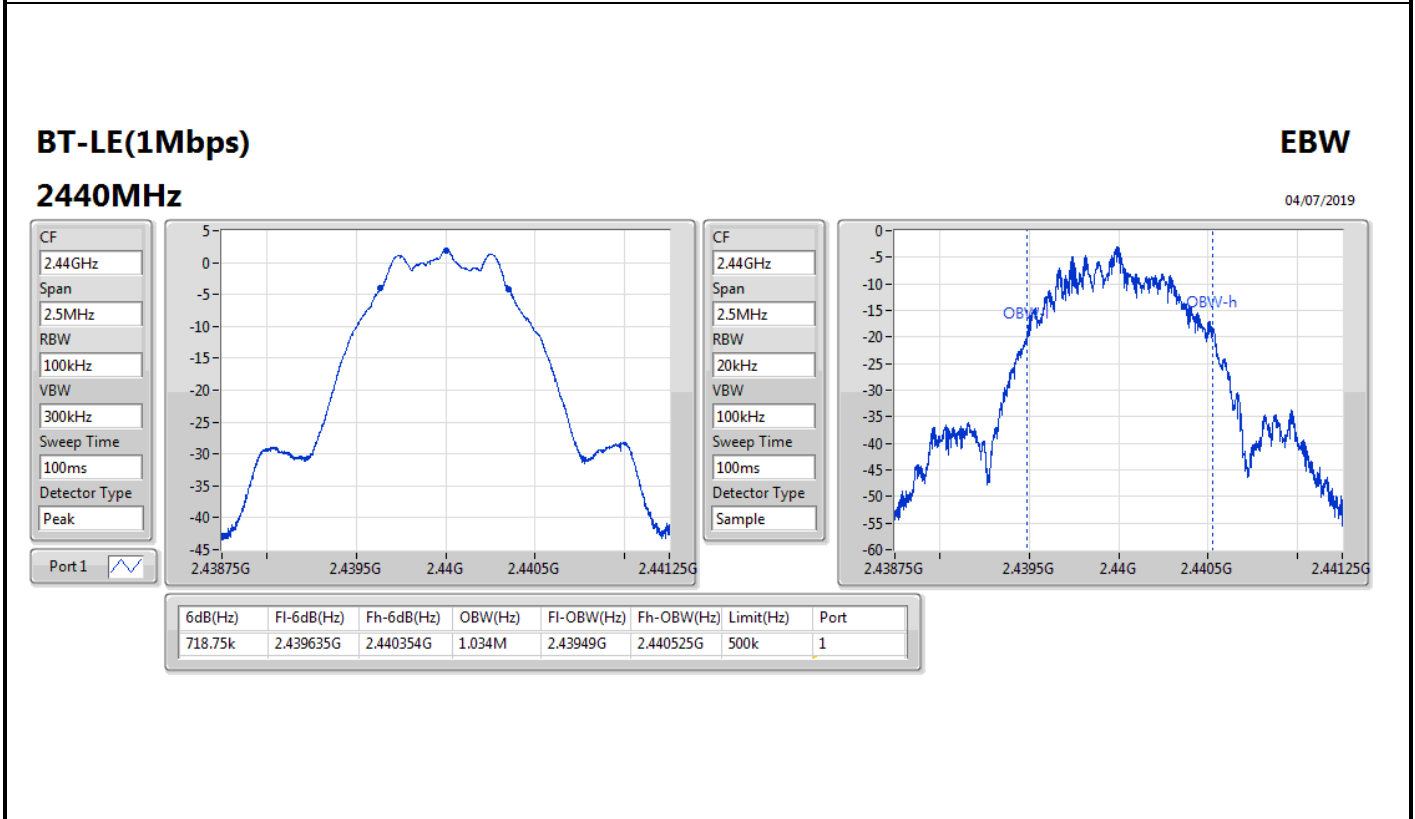
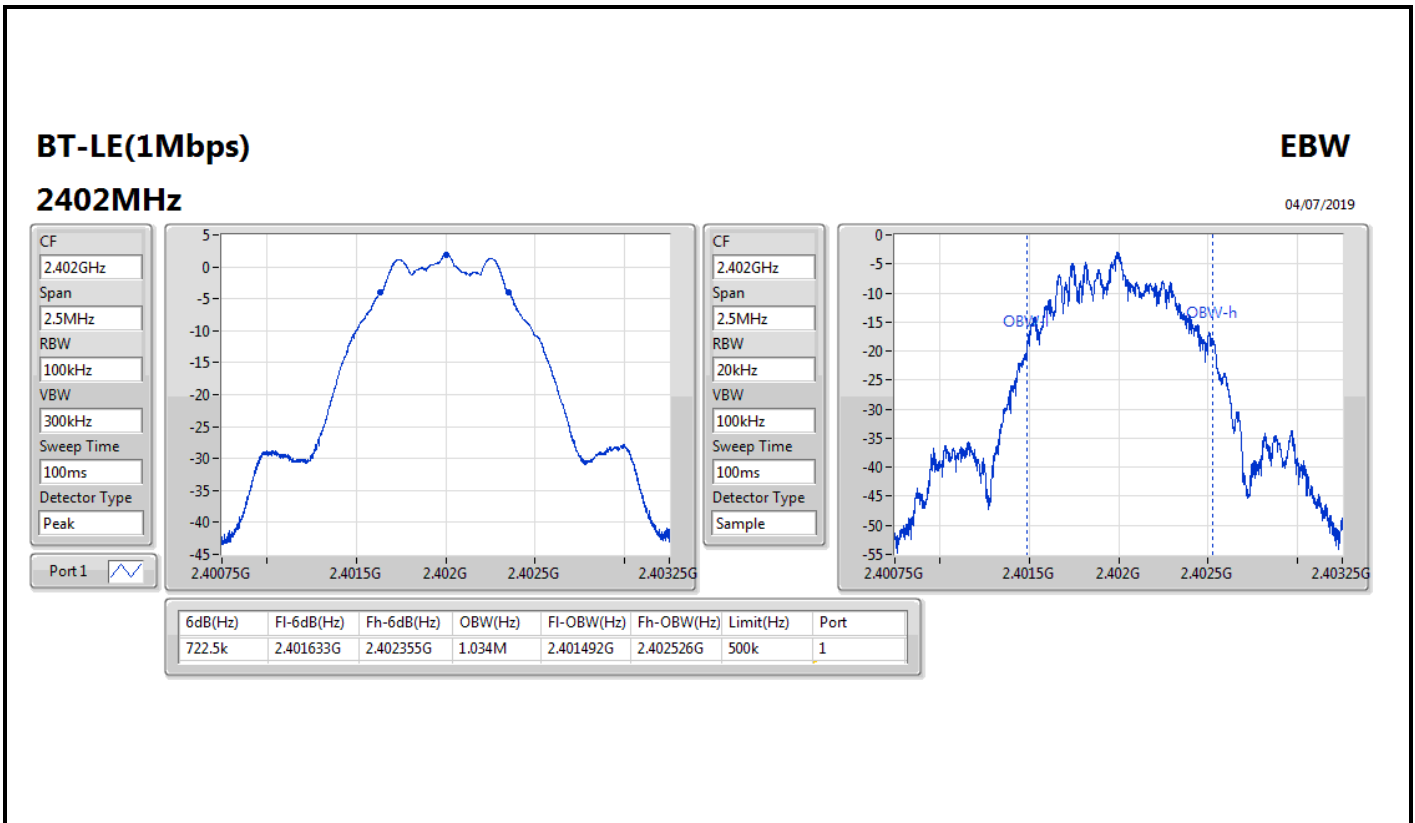
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	722.5k	1.034M
2440MHz	Pass	500k	718.75k	1.034M
2480MHz	Pass	500k	713.75k	1.033M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.248M	2.049M
2440MHz	Pass	500k	1.258M	2.044M
2480MHz	Pass	500k	1.25M	2.044M

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



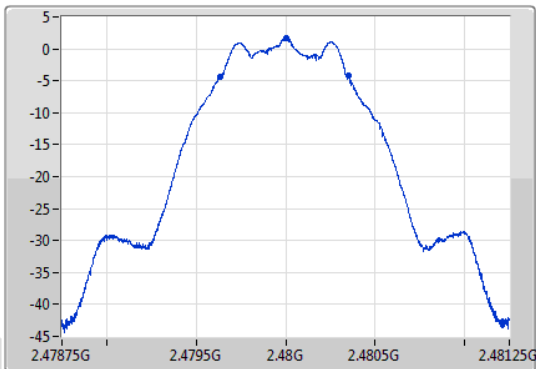
BT-LE(1Mbps)

EBW

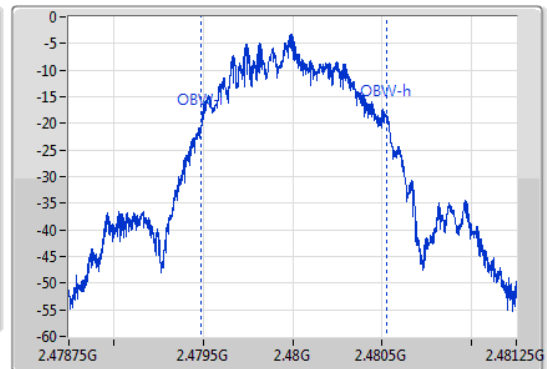
2480MHz

04/07/2019

CF
2.48GHz
Span
2.5MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
2.48GHz
Span
2.5MHz
RBW
20kHz
VBW
100kHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
713.75k	2.479635G	2.480349G	1.033M	2.479492G	2.480525G	500k	1

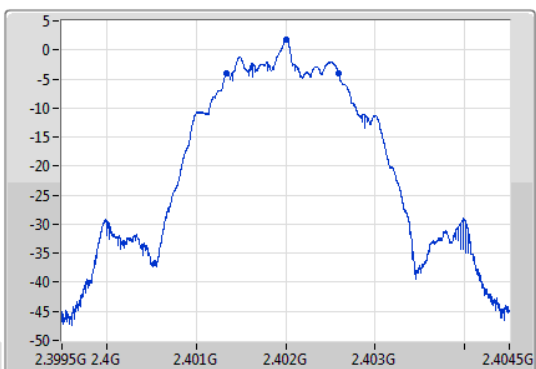
BT-LE(2Mbps)

EBW

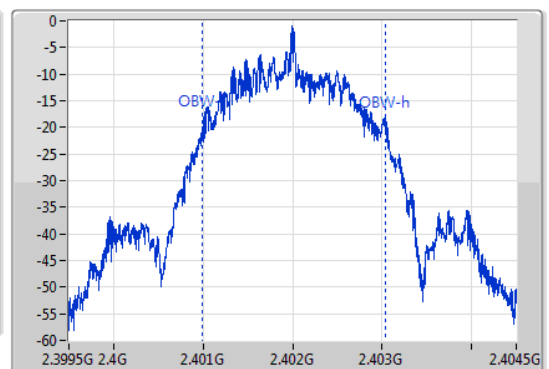
2402MHz

04/07/2019

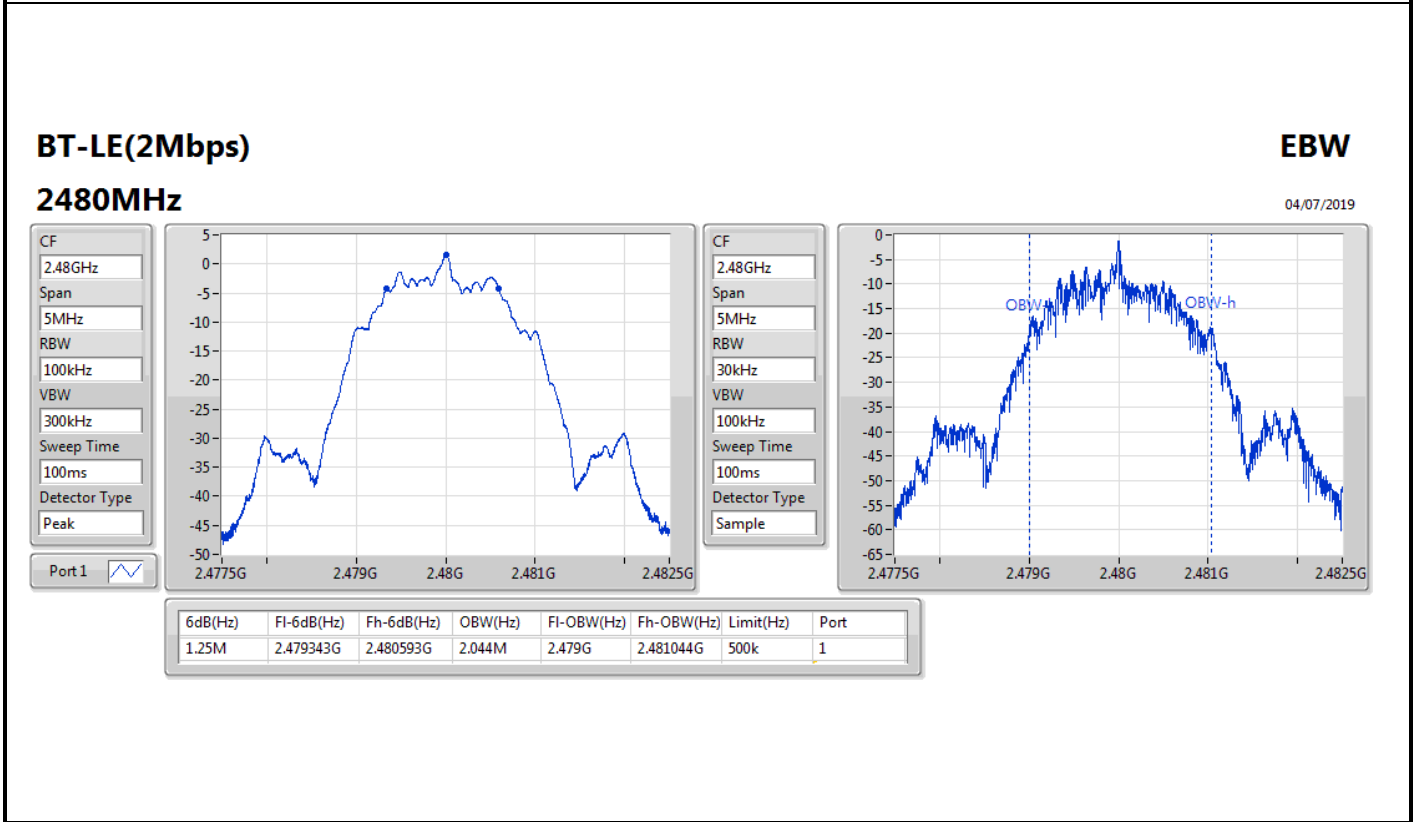
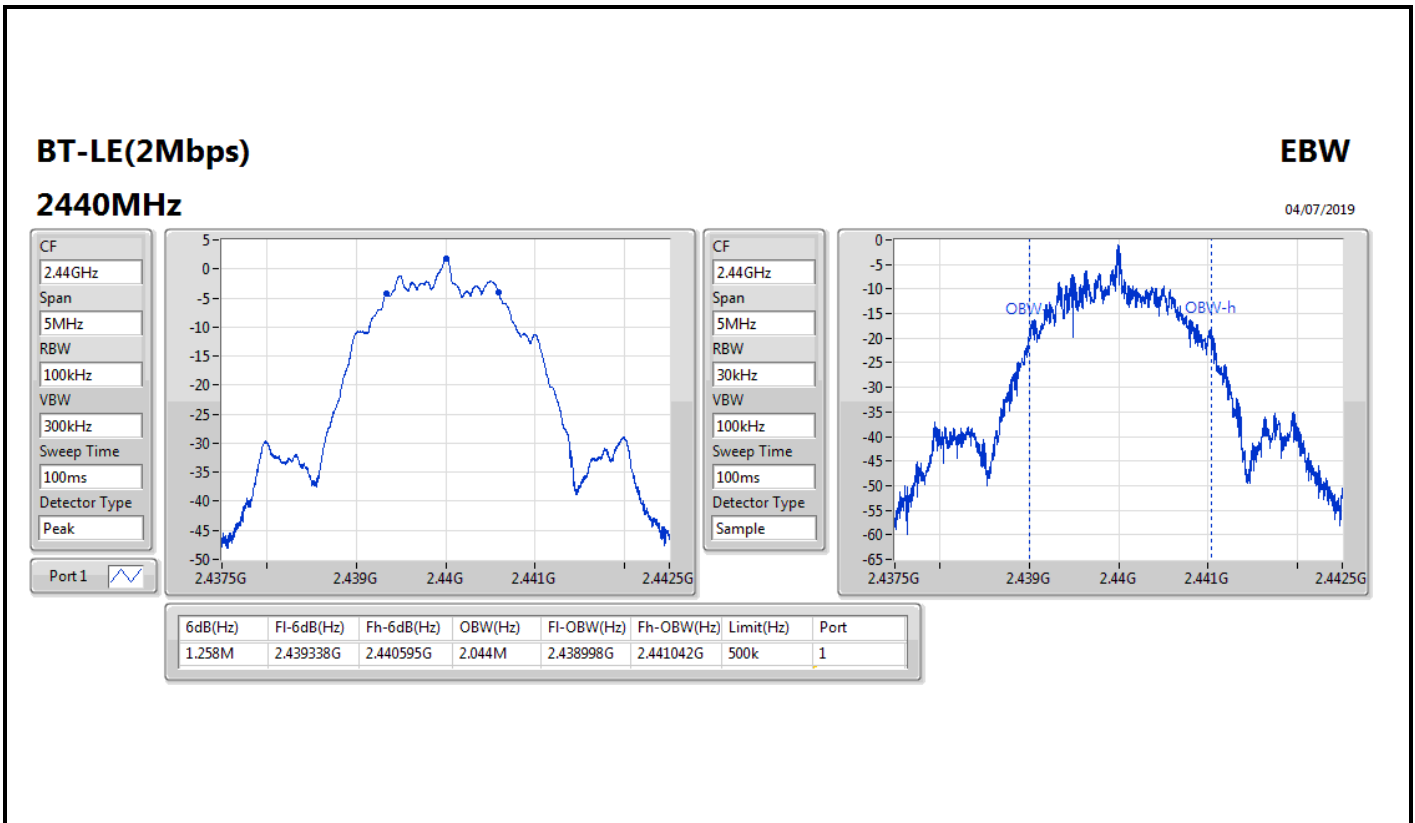
CF
2.402GHz
Span
5MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
2.402GHz
Span
5MHz
RBW
30kHz
VBW
100kHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.248M	2.401343G	2.40259G	2.049M	2.400993G	2.403042G	500k	1





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	1.89	0.00155
BT-LE(2Mbps)	1.76	0.00150



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.94	1.89	30.00
2440MHz	Pass	1.94	1.82	30.00
2480MHz	Pass	1.94	1.62	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.94	1.76	30.00
2440MHz	Pass	1.94	1.65	30.00
2480MHz	Pass	1.94	1.42	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-13.16
BT-LE(2Mbps)	-15.75

RBW=3 kHz.

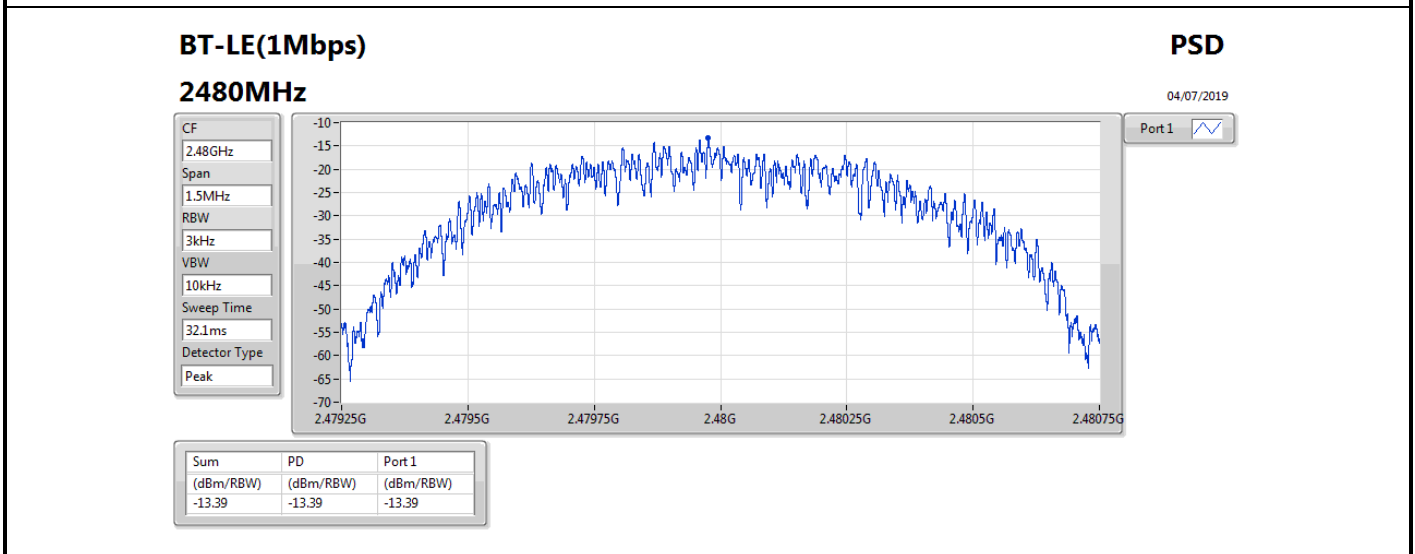
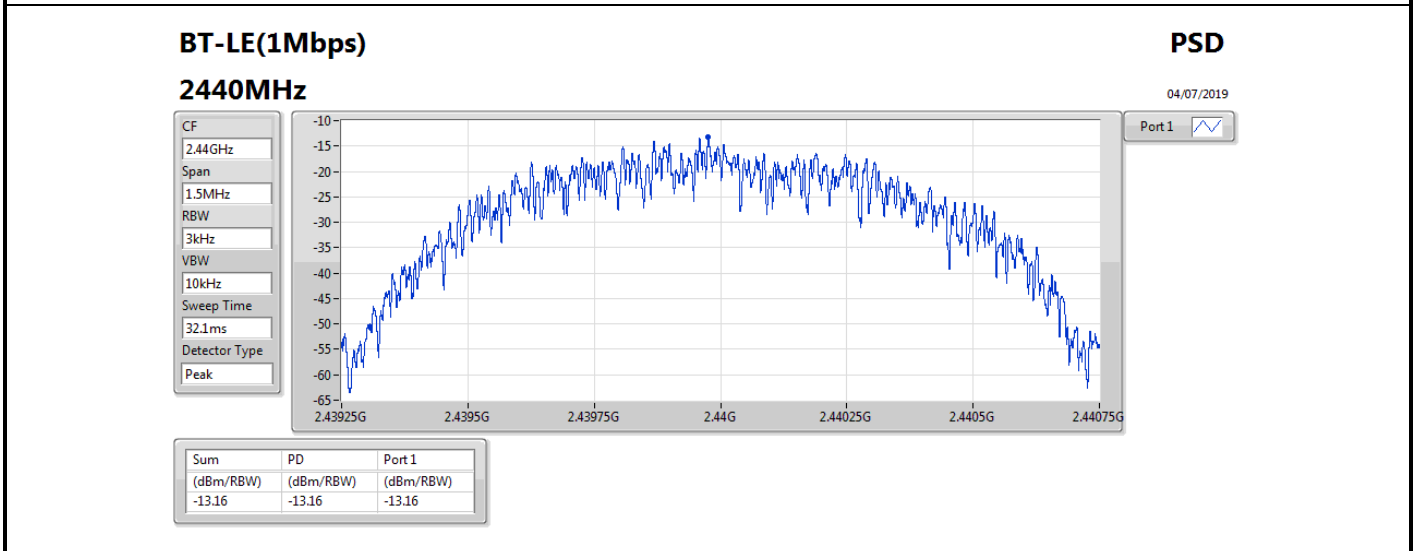
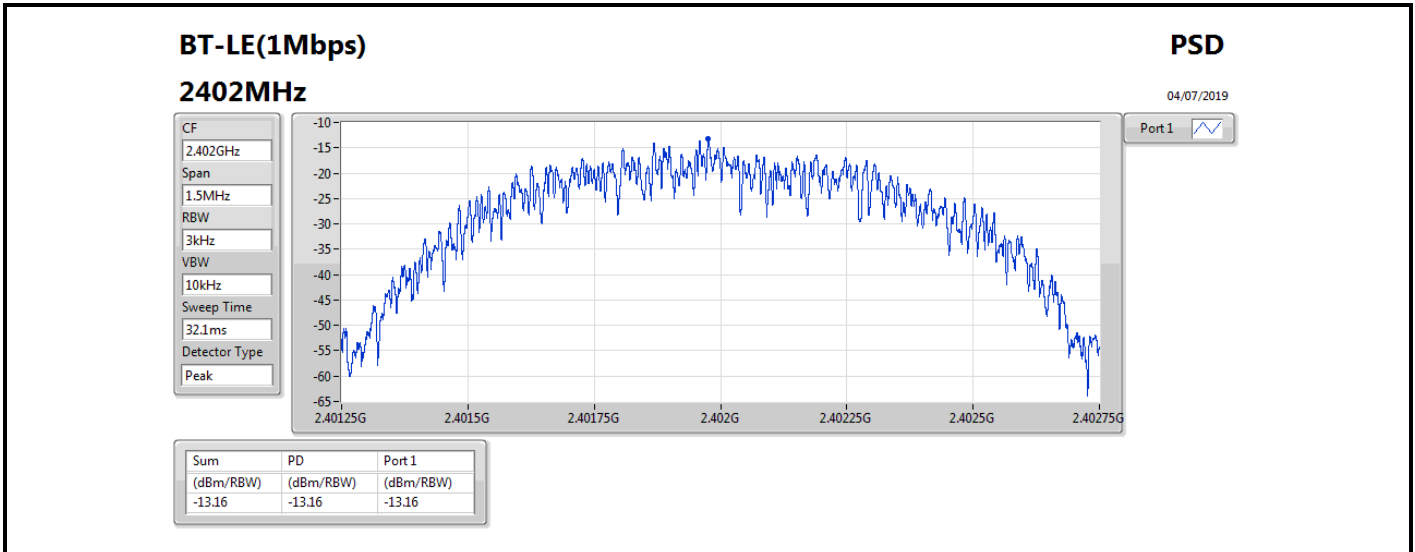


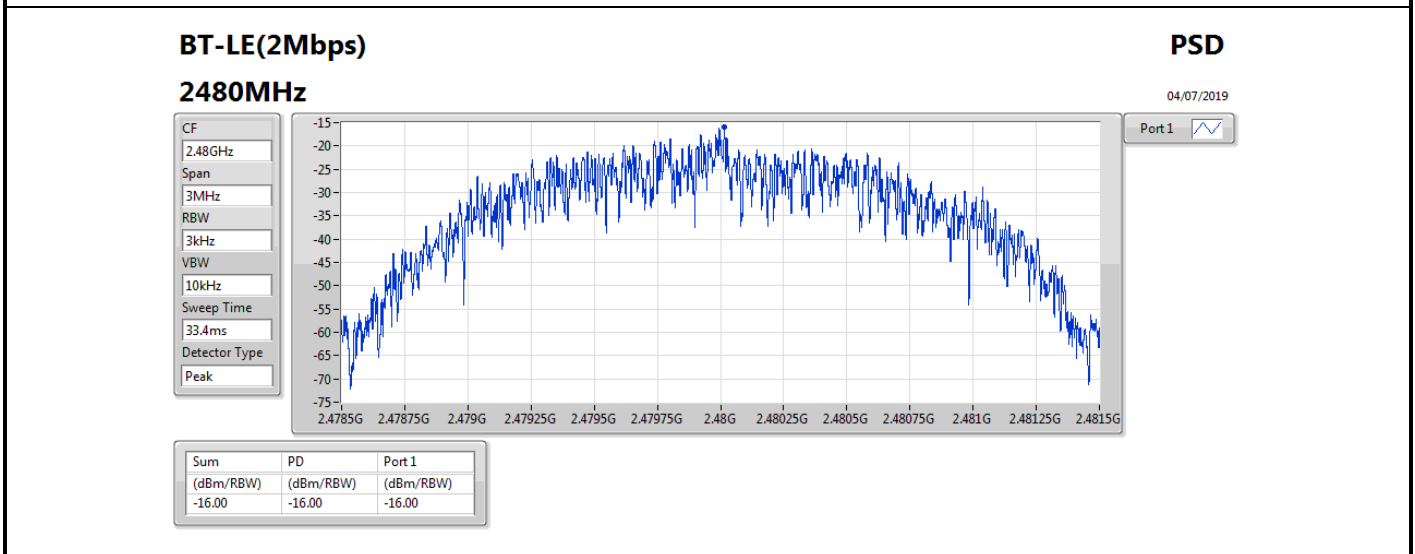
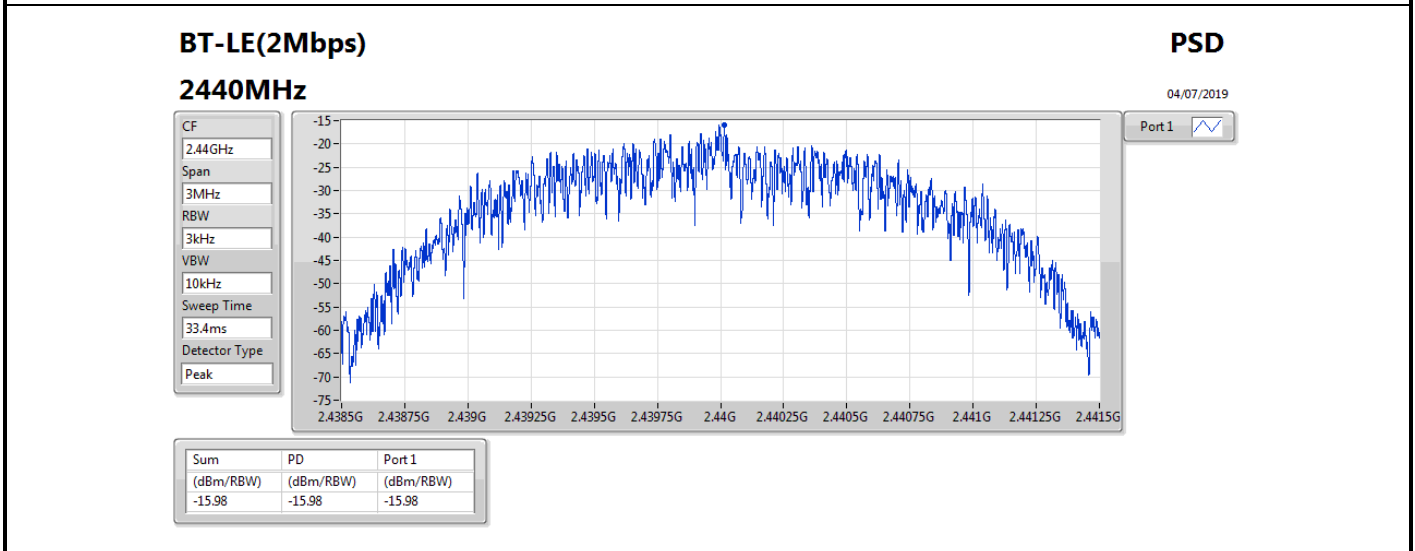
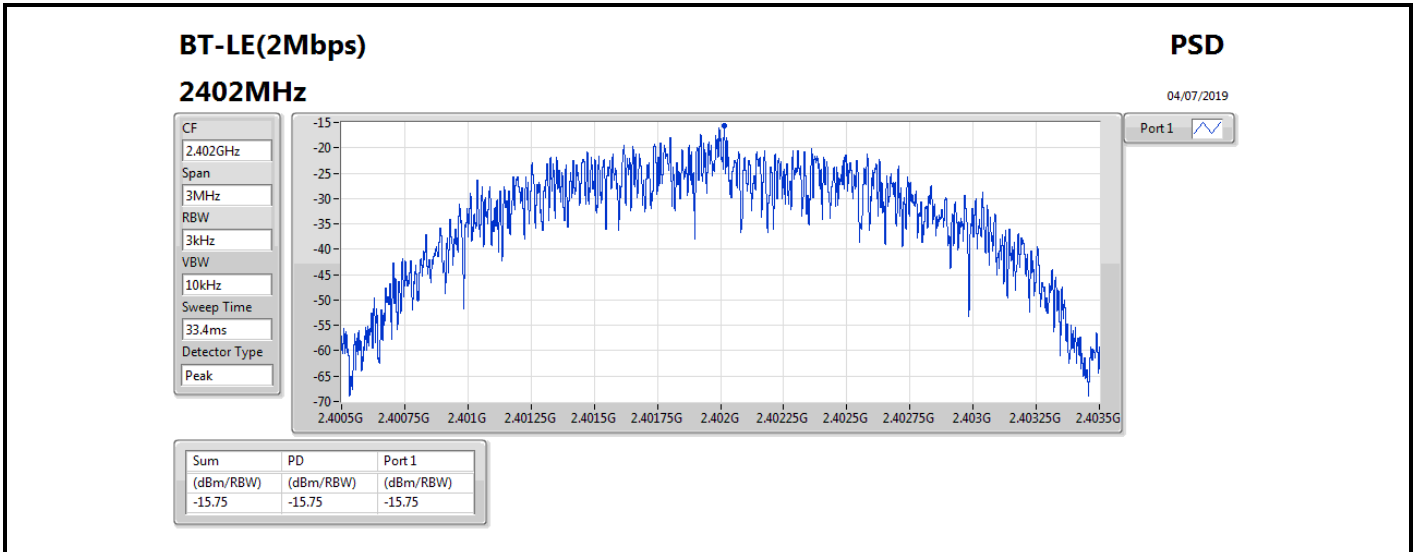
Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.94	-13.16	8.00
2440MHz	Pass	1.94	-13.16	8.00
2480MHz	Pass	1.94	-13.39	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.94	-15.75	8.00
2440MHz	Pass	1.94	-15.98	8.00
2480MHz	Pass	1.94	-16.00	8.00

DG = Directional Gain; RBW=3 kHz;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;







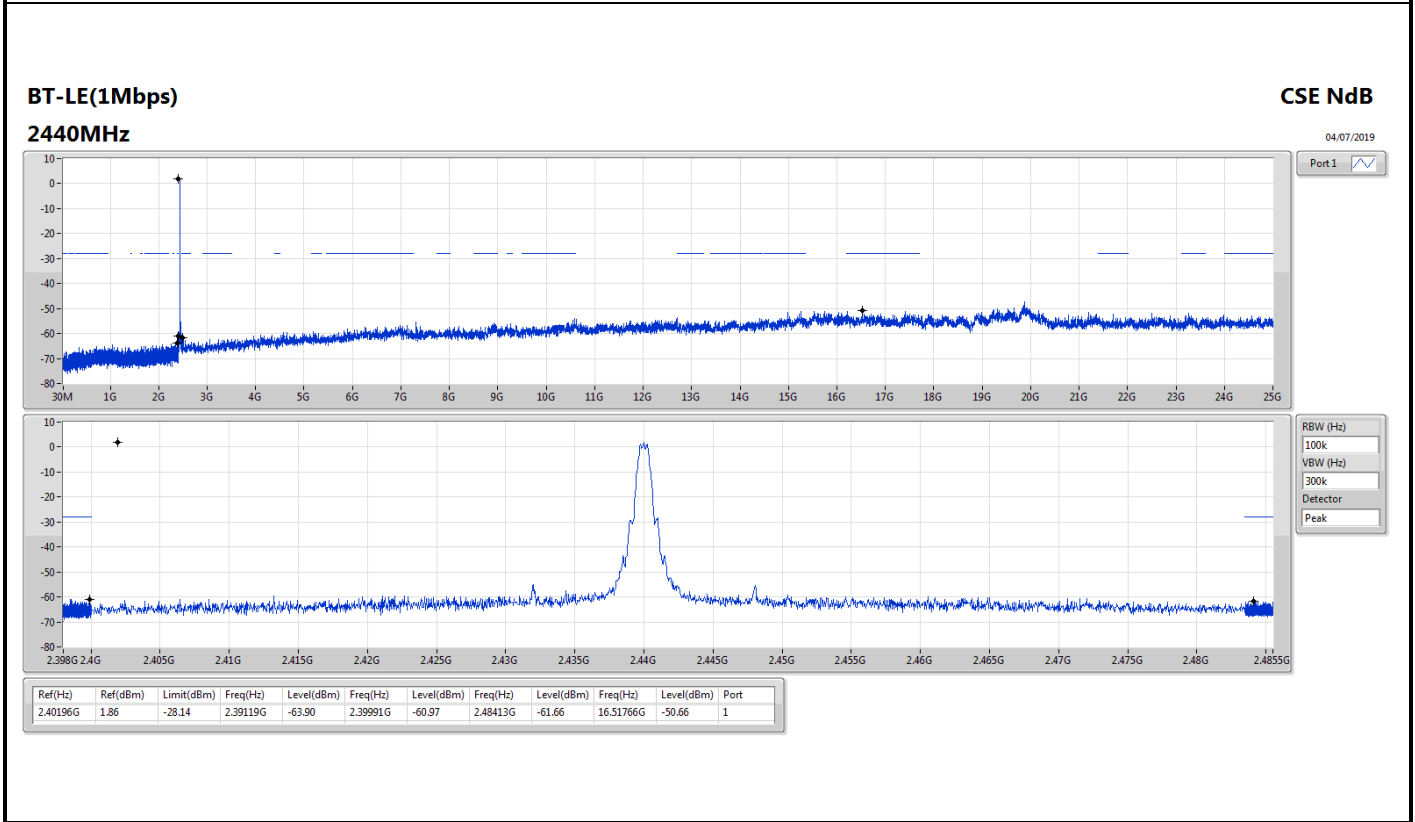
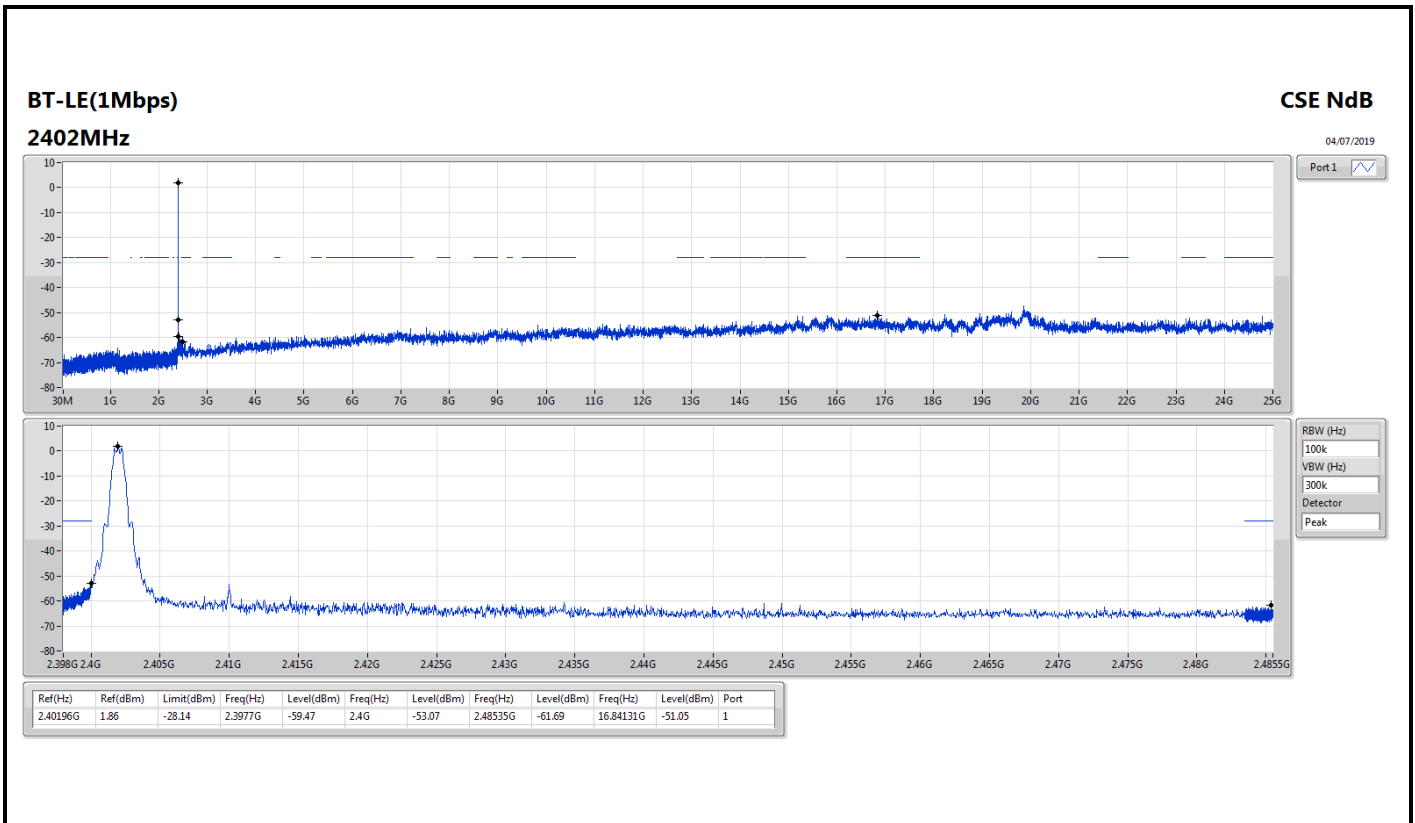
Summary

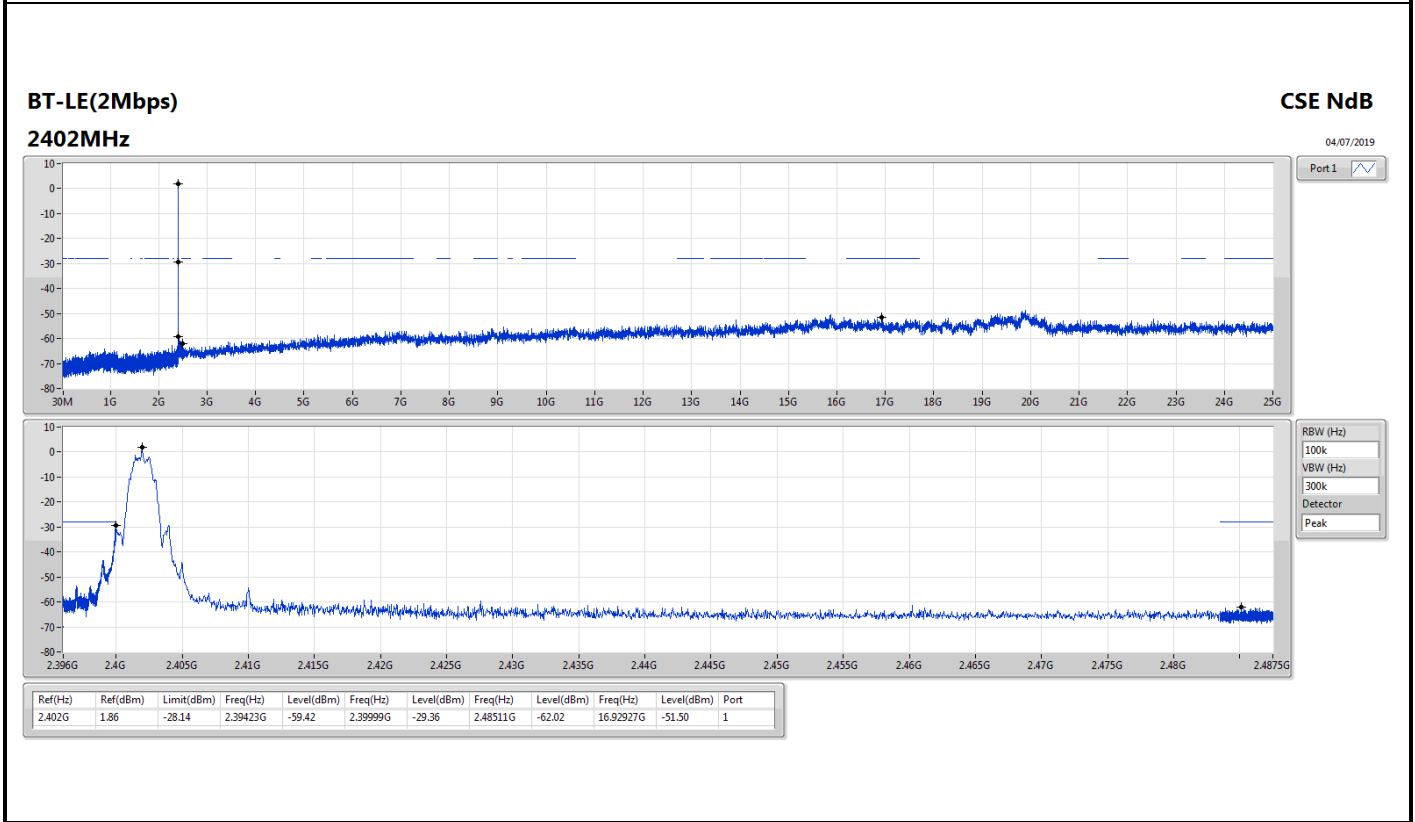
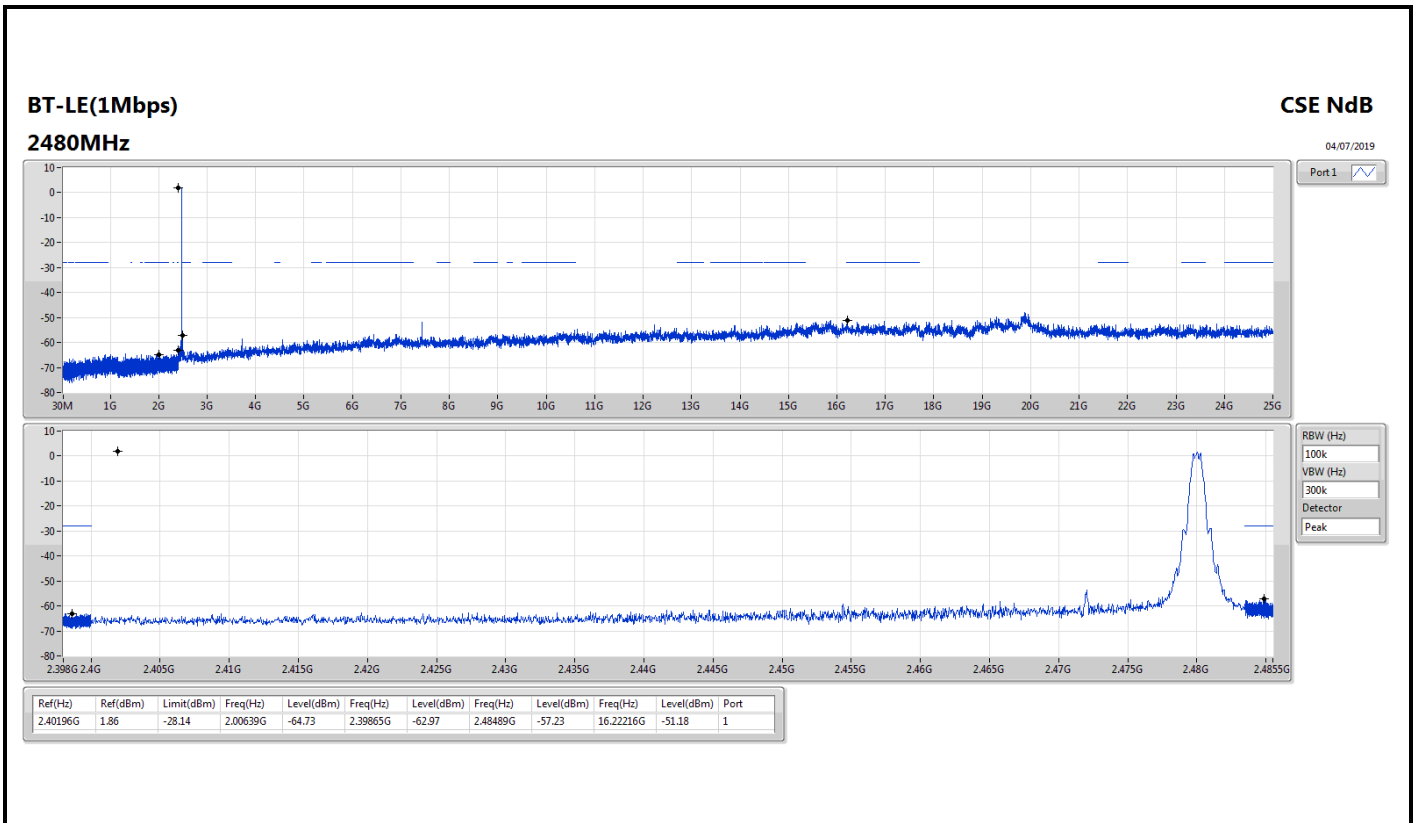
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40196G	1.86	-28.14	2.39119G	-63.90	2.39991G	-60.97	2.48413G	-61.66	16.51766G	-50.66	1
BT-LE(2Mbps)	Pass	2.402G	1.86	-28.14	2.39423G	-59.42	2.39999G	-29.36	2.48511G	-62.02	16.92927G	-51.50	1

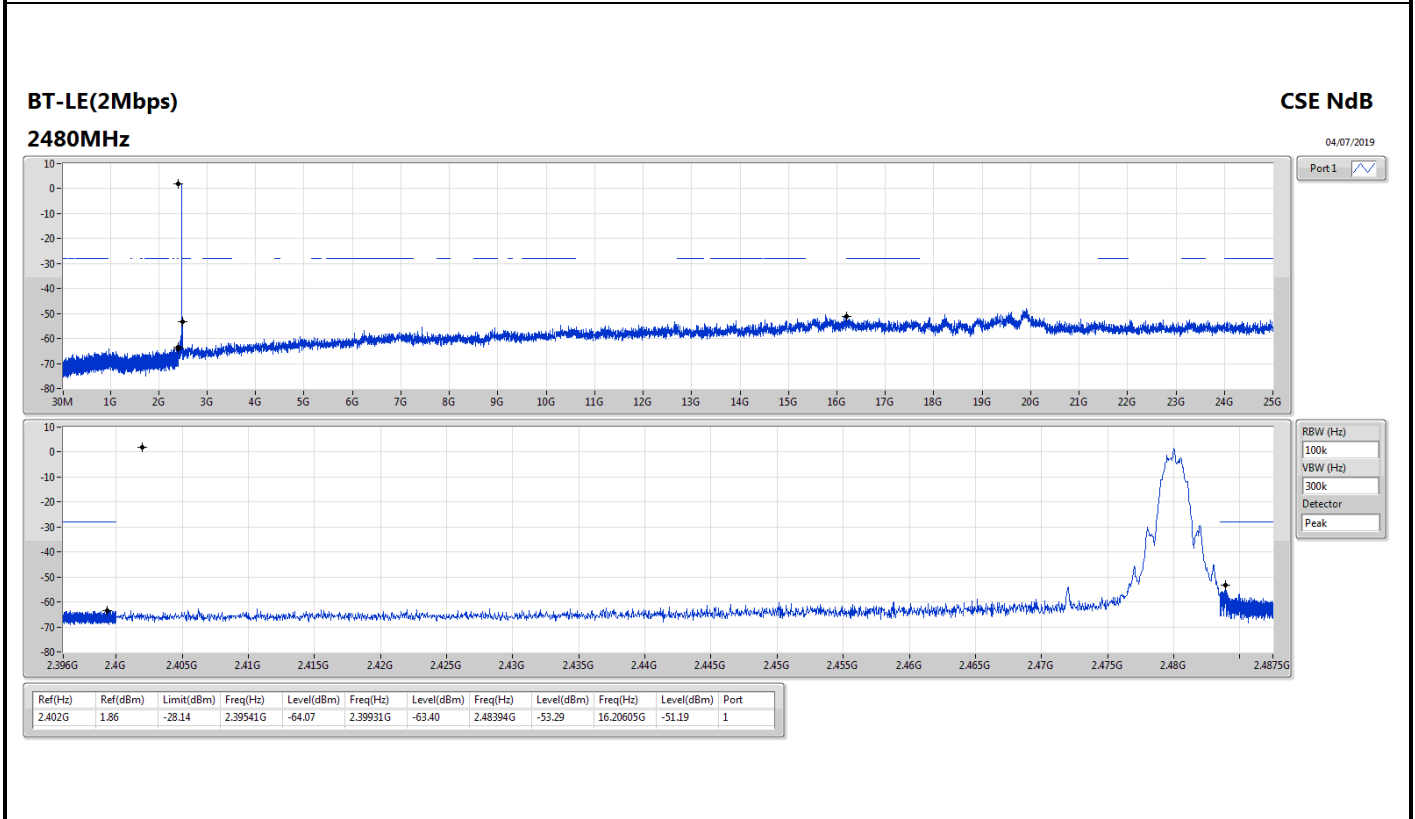
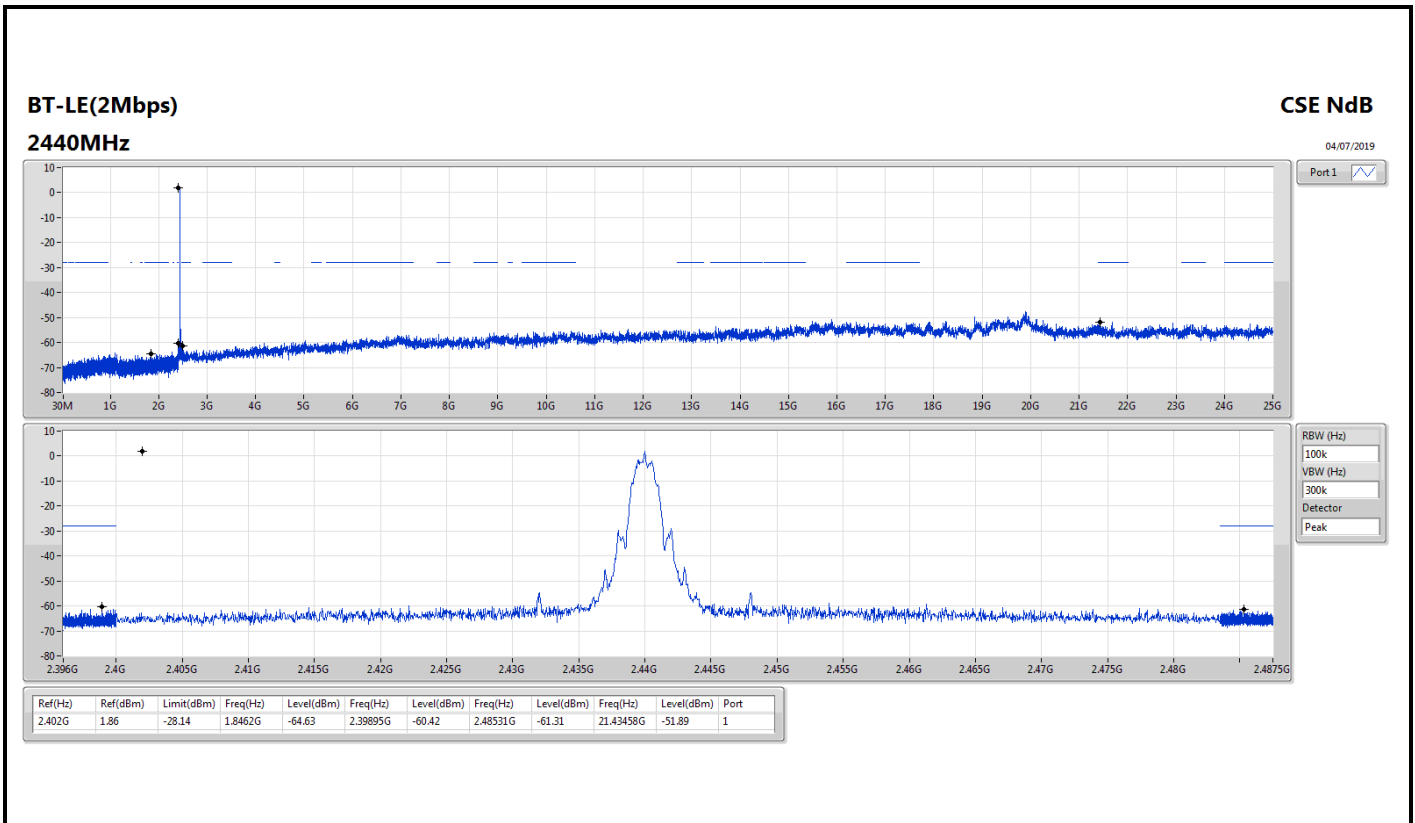


Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40196G	1.86	-28.14	2.3977G	-59.47	2.4G	-53.07	2.48535G	-61.69	16.84131G	-51.05	1
2440MHz	Pass	2.40196G	1.86	-28.14	2.39119G	-63.90	2.39991G	-60.97	2.48413G	-61.66	16.51766G	-50.66	1
2480MHz	Pass	2.40196G	1.86	-28.14	2.00639G	-64.73	2.39865G	-62.97	2.48489G	-57.23	16.22216G	-51.18	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	1.86	-28.14	2.39423G	-59.42	2.39999G	-29.36	2.48511G	-62.02	16.92927G	-51.50	1
2440MHz	Pass	2.402G	1.86	-28.14	1.8462G	-64.63	2.39895G	-60.42	2.48531G	-61.31	21.43458G	-51.89	1
2480MHz	Pass	2.402G	1.86	-28.14	2.39541G	-64.07	2.39931G	-63.40	2.48394G	-53.29	16.20605G	-51.19	1









Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	450.33M	40.05	46.00	-5.95	-7.19	3	Horizontal	0	1.00	-



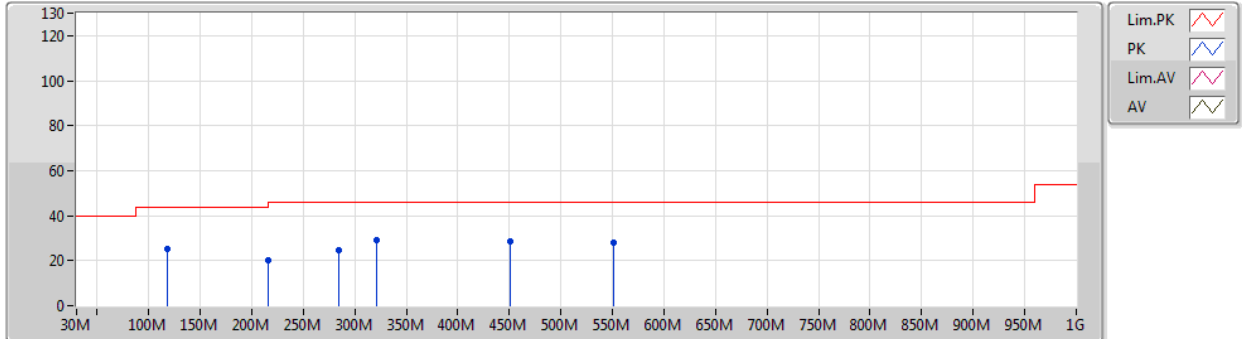
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz_USB	Pass	PK	118.57M	25.24	43.50	-18.26	-13.71	3	Vertical	360	1.00	-
2440MHz_USB	Pass	PK	215.57M	20.05	43.50	-23.45	-16.12	3	Vertical	360	1.00	-
2440MHz_USB	Pass	PK	284.45M	24.78	46.00	-21.22	-12.02	3	Vertical	360	1.00	-
2440MHz_USB	Pass	PK	321M	29.15	46.00	-16.85	-11.15	3	Vertical	360	1.00	-
2440MHz_USB	Pass	PK	450.33M	28.77	46.00	-17.23	-7.19	3	Vertical	360	1.00	-
2440MHz_USB	Pass	PK	551.55M	28.17	46.00	-17.83	-4.92	3	Vertical	360	1.00	-
2440MHz_USB	Pass	PK	53.9M	28.88	40.00	-11.12	-18.99	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	136.84M	35.20	43.50	-8.30	-14.31	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	243.68M	24.40	46.00	-21.60	-13.33	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	325.22M	32.00	46.00	-14.00	-11.04	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	450.33M	40.05	46.00	-5.95	-7.19	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	498.13M	33.75	46.00	-12.25	-6.23	3	Horizontal	0	1.00	-

BT-LE(2Mbps)

2440MHz_USB

06/07/2019

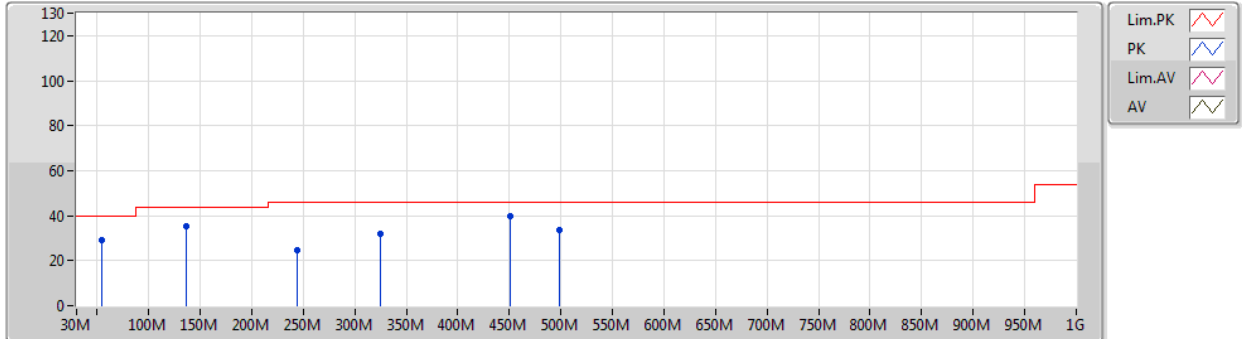


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	118.57M	25.24	43.50	-18.26	-13.71	3	Vertical	360	1.00	-	38.95	17.11	1.70	32.52
PK	215.57M	20.05	43.50	-23.45	-16.12	3	Vertical	360	1.00	-	36.17	14.27	2.03	32.42
PK	284.45M	24.78	46.00	-21.22	-12.02	3	Vertical	360	1.00	-	36.80	17.98	2.31	32.31
PK	321M	29.15	46.00	-16.85	-11.15	3	Vertical	360	1.00	-	40.30	18.66	2.45	32.26
PK	450.33M	28.77	46.00	-17.23	-7.19	3	Vertical	360	1.00	-	35.96	21.92	2.94	32.05
PK	551.55M	28.17	46.00	-17.83	-4.92	3	Vertical	360	1.00	-	33.09	23.69	3.28	31.89

BT-LE(2Mbps)

2440MHz_USB

06/07/2019



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	53.9M	28.88	40.00	-11.12	-18.99	3	Horizontal	0	1.00	-	47.87	12.30	1.27	32.56
PK	136.84M	35.20	43.50	-8.30	-14.31	3	Horizontal	0	1.00	-	49.51	16.45	1.74	32.50
PK	243.68M	24.40	46.00	-21.60	-13.33	3	Horizontal	0	1.00	-	37.73	16.92	2.12	32.37
PK	325.22M	32.00	46.00	-14.00	-11.04	3	Horizontal	0	1.00	-	43.04	18.74	2.47	32.25
PK	450.33M	40.05	46.00	-5.95	-7.19	3	Horizontal	0	1.00	-	47.24	21.92	2.94	32.05
PK	498.13M	33.75	46.00	-12.25	-6.23	3	Horizontal	0	1.00	-	39.98	22.51	3.23	31.97



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.496G	48.02	54.00	-5.98	31.36	3	Vertical	204	2.91	-
BT-LE(2Mbps)	Pass	AV	2.4898G	49.40	54.00	-4.60	31.36	3	Horizontal	294	1.02	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.352G	47.58	54.00	-6.42	31.44	3	Vertical	197	1.16	-
2402MHz_TX	Pass	AV	2.402G	89.40	Inf	-Inf	31.37	3	Vertical	197	1.16	-
2402MHz_TX	Pass	PK	2.386G	58.75	74.00	-15.25	31.39	3	Vertical	197	1.16	-
2402MHz_TX	Pass	PK	2.402G	90.39	Inf	-Inf	31.37	3	Vertical	197	1.16	-
2402MHz_TX	Pass	AV	2.3528G	47.81	54.00	-6.19	31.43	3	Horizontal	301	1.32	-
2402MHz_TX	Pass	AV	2.402G	93.33	Inf	-Inf	31.37	3	Horizontal	301	1.32	-
2402MHz_TX	Pass	PK	2.3898G	59.40	74.00	-14.60	31.38	3	Horizontal	301	1.32	-
2402MHz_TX	Pass	PK	2.4018G	94.29	Inf	-Inf	31.37	3	Horizontal	301	1.32	-
2402MHz_TX	Pass	AV	4.80389G	37.18	54.00	-16.82	1.67	3	Vertical	202	1.50	-
2402MHz_TX	Pass	PK	4.8035G	46.32	74.00	-27.68	1.67	3	Vertical	202	1.50	-
2402MHz_TX	Pass	AV	4.8038G	38.43	54.00	-15.57	1.67	3	Horizontal	20	2.11	-
2402MHz_TX	Pass	PK	4.80339G	47.76	74.00	-26.24	1.67	3	Horizontal	20	2.11	-
2440MHz_TX	Pass	AV	2.3452G	47.86	54.00	-6.14	31.44	3	Vertical	204	2.91	-
2440MHz_TX	Pass	AV	2.44G	90.96	Inf	-Inf	31.37	3	Vertical	204	2.91	-
2440MHz_TX	Pass	AV	2.496G	48.02	54.00	-5.98	31.36	3	Vertical	204	2.91	-
2440MHz_TX	Pass	PK	2.3568G	58.61	74.00	-15.39	31.43	3	Vertical	204	2.91	-
2440MHz_TX	Pass	PK	2.4396G	91.91	Inf	-Inf	31.37	3	Vertical	204	2.91	-
2440MHz_TX	Pass	PK	2.492G	58.98	74.00	-15.02	31.36	3	Vertical	204	2.91	-
2440MHz_TX	Pass	AV	2.3456G	47.85	54.00	-6.15	31.44	3	Horizontal	292	1.50	-
2440MHz_TX	Pass	AV	2.44G	94.20	Inf	-Inf	31.37	3	Horizontal	292	1.50	-
2440MHz_TX	Pass	AV	2.4884G	47.78	54.00	-6.22	31.36	3	Horizontal	292	1.50	-
2440MHz_TX	Pass	PK	2.3568G	58.68	74.00	-15.32	31.43	3	Horizontal	292	1.50	-
2440MHz_TX	Pass	PK	2.4404G	95.15	Inf	-Inf	31.37	3	Horizontal	292	1.50	-
2440MHz_TX	Pass	PK	2.486G	58.02	74.00	-15.98	31.36	3	Horizontal	292	1.50	-
2440MHz_TX	Pass	AV	4.87971G	38.44	54.00	-15.56	1.81	3	Vertical	210	1.50	-
2440MHz_TX	Pass	AV	7.31931G	40.56	54.00	-13.44	8.01	3	Vertical	159	1.57	-
2440MHz_TX	Pass	PK	4.8794G	46.96	74.00	-27.04	1.81	3	Vertical	210	1.50	-
2440MHz_TX	Pass	PK	7.31938G	51.19	74.00	-22.81	8.01	3	Vertical	159	1.57	-
2440MHz_TX	Pass	AV	4.87982G	39.85	54.00	-14.15	1.81	3	Horizontal	24	1.89	-
2440MHz_TX	Pass	AV	7.31917G	41.88	54.00	-12.12	8.01	3	Horizontal	54	1.44	-
2440MHz_TX	Pass	PK	4.88048G	47.53	74.00	-26.47	1.81	3	Horizontal	24	1.89	-
2440MHz_TX	Pass	PK	7.31939G	52.26	74.00	-21.74	8.01	3	Horizontal	54	1.44	-
2480MHz_TX	Pass	AV	2.48G	90.25	Inf	-Inf	31.36	3	Vertical	202	1.05	-
2480MHz_TX	Pass	AV	2.489G	47.78	54.00	-6.22	31.36	3	Vertical	202	1.05	-
2480MHz_TX	Pass	PK	2.4802G	91.22	Inf	-Inf	31.36	3	Vertical	202	1.05	-
2480MHz_TX	Pass	PK	2.4936G	59.71	74.00	-14.29	31.36	3	Vertical	202	1.05	-
2480MHz_TX	Pass	AV	2.48G	92.53	Inf	-Inf	31.36	3	Horizontal	295	1.50	-
2480MHz_TX	Pass	AV	2.4978G	47.77	54.00	-6.23	31.36	3	Horizontal	295	1.50	-
2480MHz_TX	Pass	PK	2.4802G	93.47	Inf	-Inf	31.36	3	Horizontal	295	1.50	-
2480MHz_TX	Pass	PK	2.4914G	58.40	74.00	-15.60	31.36	3	Horizontal	295	1.50	-
2480MHz_TX	Pass	AV	4.9599G	37.86	54.00	-16.14	2.01	3	Vertical	112	1.75	-
2480MHz_TX	Pass	AV	7.43933G	40.74	54.00	-13.26	7.95	3	Vertical	171	2.31	-
2480MHz_TX	Pass	PK	4.9606G	46.12	74.00	-27.88	2.01	3	Vertical	112	1.75	-
2480MHz_TX	Pass	PK	7.43931G	52.08	74.00	-21.92	7.95	3	Vertical	171	2.31	-
2480MHz_TX	Pass	AV	4.95978G	37.31	54.00	-16.69	2.01	3	Horizontal	29	1.62	-
2480MHz_TX	Pass	AV	7.43921G	41.92	54.00	-12.08	7.95	3	Horizontal	57	1.50	-
2480MHz_TX	Pass	PK	4.95956G	46.47	74.00	-27.53	2.01	3	Horizontal	29	1.62	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz_TX	Pass	PK	7.43945G	51.51	74.00	-22.49	7.95	3	Horizontal	57	1.50	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.358G	47.53	54.00	-6.47	31.42	3	Vertical	198	1.15	-
2402MHz_TX	Pass	AV	2.402G	87.36	Inf	-Inf	31.37	3	Vertical	198	1.15	-
2402MHz_TX	Pass	PK	2.3714G	58.53	74.00	-15.47	31.41	3	Vertical	198	1.15	-
2402MHz_TX	Pass	PK	2.4014G	90.19	Inf	-Inf	31.37	3	Vertical	198	1.15	-
2402MHz_TX	Pass	AV	2.3666G	47.50	54.00	-6.50	31.42	3	Horizontal	293	1.50	-
2402MHz_TX	Pass	AV	2.402G	90.81	Inf	-Inf	31.37	3	Horizontal	293	1.50	-
2402MHz_TX	Pass	PK	2.354G	58.76	74.00	-15.24	31.43	3	Horizontal	293	1.50	-
2402MHz_TX	Pass	PK	2.4026G	93.65	Inf	-Inf	31.37	3	Horizontal	293	1.50	-
2402MHz_TX	Pass	AV	4.80308G	37.21	54.00	-16.79	1.67	3	Vertical	203	1.41	-
2402MHz_TX	Pass	PK	4.80478G	46.99	74.00	-27.01	1.67	3	Vertical	203	1.41	-
2402MHz_TX	Pass	AV	4.80303G	36.12	54.00	-17.88	1.67	3	Horizontal	28	1.50	-
2402MHz_TX	Pass	PK	4.80407G	46.19	74.00	-27.81	1.67	3	Horizontal	28	1.50	-
2440MHz_TX	Pass	AV	2.3444G	47.61	54.00	-6.39	31.44	3	Vertical	204	2.98	-
2440MHz_TX	Pass	AV	2.44G	88.74	Inf	-Inf	31.37	3	Vertical	204	2.98	-
2440MHz_TX	Pass	AV	2.5G	47.77	54.00	-6.23	31.36	3	Vertical	204	2.98	-
2440MHz_TX	Pass	PK	2.342G	59.04	74.00	-14.96	31.45	3	Vertical	204	2.98	-
2440MHz_TX	Pass	PK	2.4396G	91.56	Inf	-Inf	31.37	3	Vertical	204	2.98	-
2440MHz_TX	Pass	PK	2.4928G	57.94	74.00	-16.06	31.36	3	Vertical	204	2.98	-
2440MHz_TX	Pass	AV	2.3412G	47.63	54.00	-6.37	31.45	3	Horizontal	296	1.50	-
2440MHz_TX	Pass	AV	2.44G	92.48	Inf	-Inf	31.37	3	Horizontal	296	1.50	-
2440MHz_TX	Pass	AV	2.5G	47.77	54.00	-6.23	31.36	3	Horizontal	296	1.50	-
2440MHz_TX	Pass	PK	2.3444G	58.53	74.00	-15.47	31.44	3	Horizontal	296	1.50	-
2440MHz_TX	Pass	PK	2.4404G	95.28	Inf	-Inf	31.37	3	Horizontal	296	1.50	-
2440MHz_TX	Pass	PK	2.4988G	58.83	74.00	-15.17	31.36	3	Horizontal	296	1.50	-
2440MHz_TX	Pass	AV	4.87893G	37.86	54.00	-16.14	1.81	3	Vertical	208	1.50	-
2440MHz_TX	Pass	AV	7.31863G	40.32	54.00	-13.68	8.01	3	Vertical	346	1.36	-
2440MHz_TX	Pass	PK	4.87891G	47.22	74.00	-26.78	1.81	3	Vertical	208	1.50	-
2440MHz_TX	Pass	PK	7.31777G	50.57	74.00	-23.43	8.01	3	Vertical	346	1.36	-
2440MHz_TX	Pass	AV	4.87899G	38.40	54.00	-15.60	1.81	3	Horizontal	19	1.86	-
2440MHz_TX	Pass	AV	7.31849G	41.07	54.00	-12.93	8.01	3	Horizontal	54	1.51	-
2440MHz_TX	Pass	PK	4.88094G	47.93	74.00	-26.07	1.81	3	Horizontal	19	1.86	-
2440MHz_TX	Pass	PK	7.31867G	51.25	74.00	-22.75	8.01	3	Horizontal	54	1.51	-
2480MHz_TX	Pass	AV	2.48G	88.98	Inf	-Inf	31.36	3	Vertical	201	1.14	-
2480MHz_TX	Pass	AV	2.4862G	49.19	54.00	-4.81	31.36	3	Vertical	201	1.14	-
2480MHz_TX	Pass	PK	2.4806G	91.26	Inf	-Inf	31.36	3	Vertical	201	1.14	-
2480MHz_TX	Pass	PK	2.4902G	58.32	74.00	-15.68	31.36	3	Vertical	201	1.14	-
2480MHz_TX	Pass	AV	2.48G	93.24	Inf	-Inf	31.36	3	Horizontal	294	1.02	-
2480MHz_TX	Pass	AV	2.4898G	49.40	54.00	-4.60	31.36	3	Horizontal	294	1.02	-
2480MHz_TX	Pass	PK	2.4794G	95.48	Inf	-Inf	31.36	3	Horizontal	294	1.02	-
2480MHz_TX	Pass	PK	2.4902G	59.05	74.00	-14.95	31.36	3	Horizontal	294	1.02	-
2480MHz_TX	Pass	AV	4.96G	38.87	54.00	-15.13	2.01	3	Vertical	115	2.28	-
2480MHz_TX	Pass	AV	7.43886G	40.15	54.00	-13.85	7.95	3	Vertical	213	1.45	-
2480MHz_TX	Pass	PK	4.95908G	46.62	74.00	-27.38	2.01	3	Vertical	115	2.28	-
2480MHz_TX	Pass	PK	7.4377G	49.72	74.00	-24.28	7.95	3	Vertical	213	1.45	-
2480MHz_TX	Pass	AV	4.95991G	38.04	54.00	-15.96	2.01	3	Horizontal	21	1.50	-
2480MHz_TX	Pass	AV	7.43841G	42.45	54.00	-11.55	7.95	3	Horizontal	51	1.50	-
2480MHz_TX	Pass	PK	4.95903G	45.71	74.00	-28.29	2.01	3	Horizontal	21	1.50	-

Remark :

Page No. : F3 of F26

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

962606



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz_TX	Pass	PK	7.44095G	51.28	74.00	-22.72	7.95	3	Horizontal	51	1.50	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

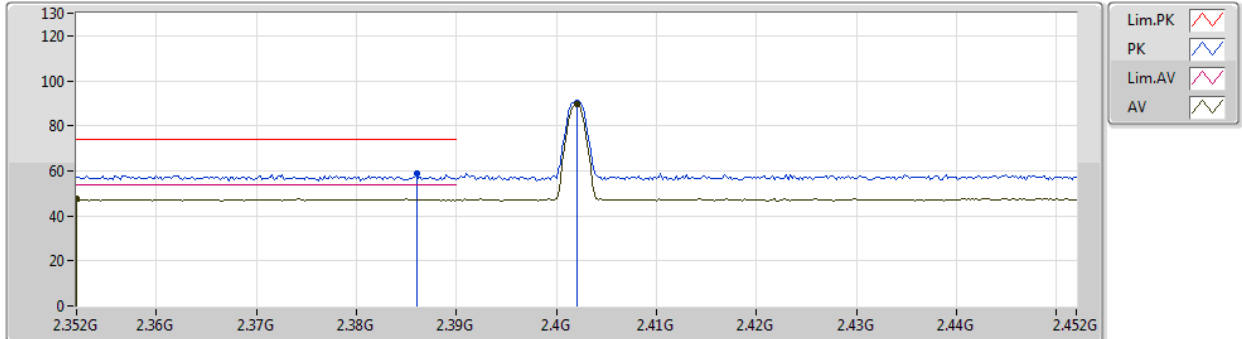
Page No. : F4 of F26

962606

BT-LE(1Mbps)

2402MHz_TX

05/07/2019

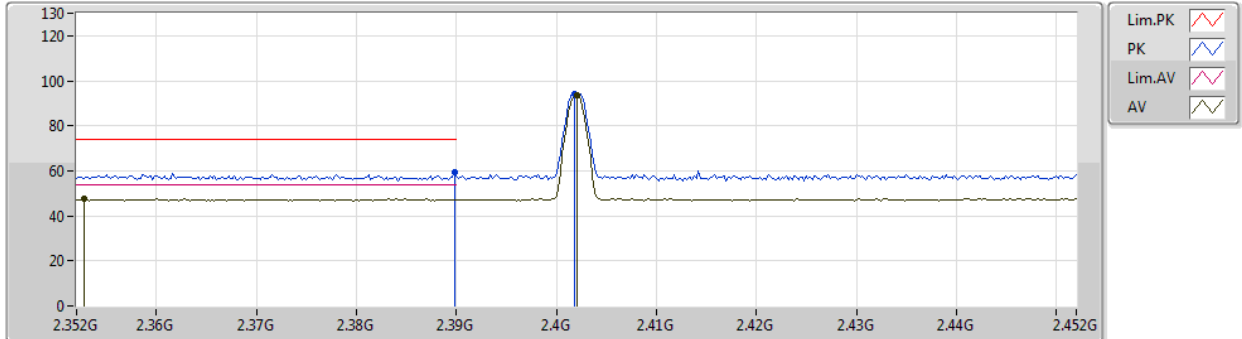


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.352G	47.58	54.00	-6.42	31.44	3	Vertical	197	1.16	-	16.14	27.80	3.64	-
AV	2.402G	89.40	Inf	-Inf	31.37	3	Vertical	197	1.16	-	58.03	27.70	3.67	-
PK	2.386G	58.75	74.00	-15.25	31.39	3	Vertical	197	1.16	-	27.36	27.73	3.66	-
PK	2.402G	90.39	Inf	-Inf	31.37	3	Vertical	197	1.16	-	59.02	27.70	3.67	-

BT-LE(1Mbps)

2402MHz_TX

05/07/2019



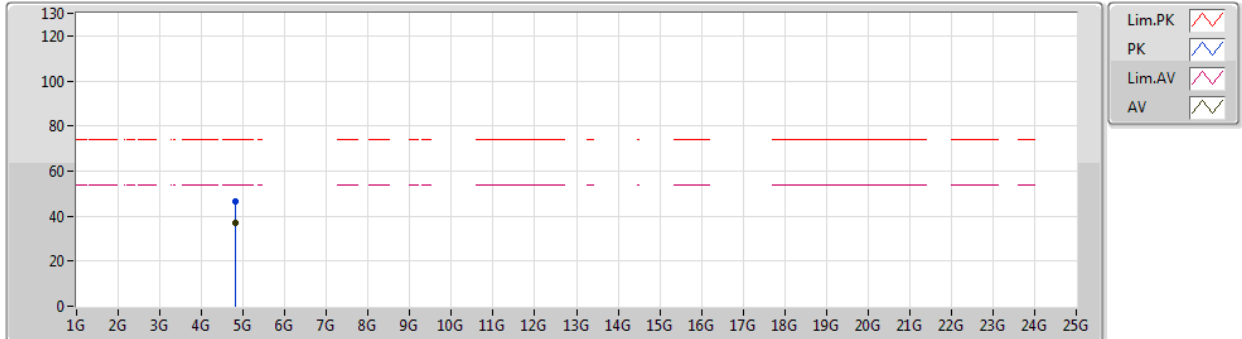
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3528G	47.81	54.00	-6.19	31.43	3	Horizontal	301	1.32	-	16.38	27.79	3.64	-
AV	2.402G	93.33	Inf	-Inf	31.37	3	Horizontal	301	1.32	-	61.96	27.70	3.67	-
PK	2.3898G	59.40	74.00	-14.60	31.38	3	Horizontal	301	1.32	-	28.02	27.72	3.66	-
PK	2.4018G	94.29	Inf	-Inf	31.37	3	Horizontal	301	1.32	-	62.92	27.70	3.67	-



BT-LE(1Mbps)

2402MHz_TX

05/07/2019

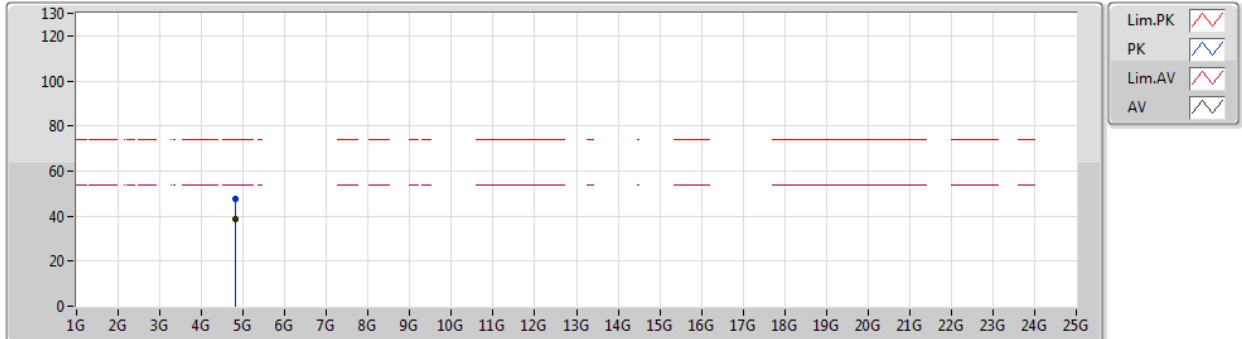


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80389G	37.18	54.00	-16.82	1.67	3	Vertical	202	1.50	-	35.51	31.20	5.32	34.85
PK	4.8035G	46.32	74.00	-27.68	1.67	3	Vertical	202	1.50	-	44.65	31.20	5.32	34.85

BT-LE(1Mbps)

2402MHz_TX

05/07/2019

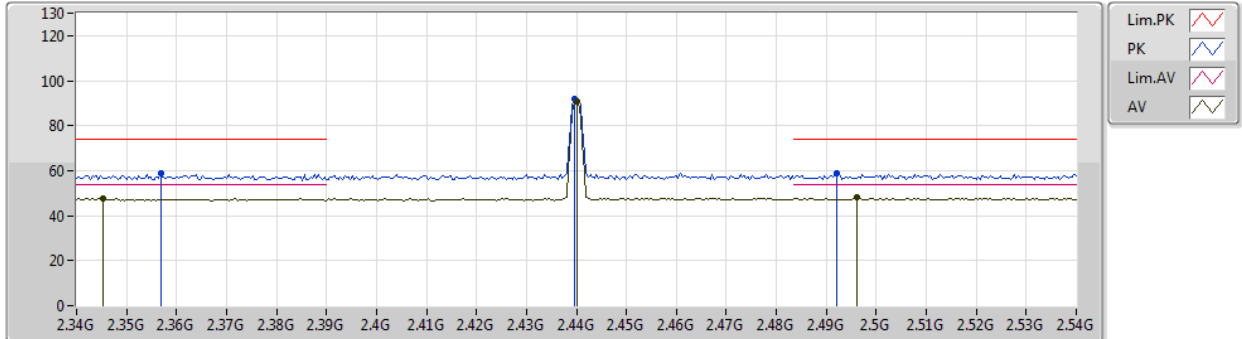


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8038G	38.43	54.00	-15.57	1.67	3	Horizontal	20	2.11	-	36.76	31.20	5.32	34.85
PK	4.80339G	47.76	74.00	-26.24	1.67	3	Horizontal	20	2.11	-	46.09	31.20	5.32	34.85

BT-LE(1Mbps)

2440MHz_TX

05/07/2019

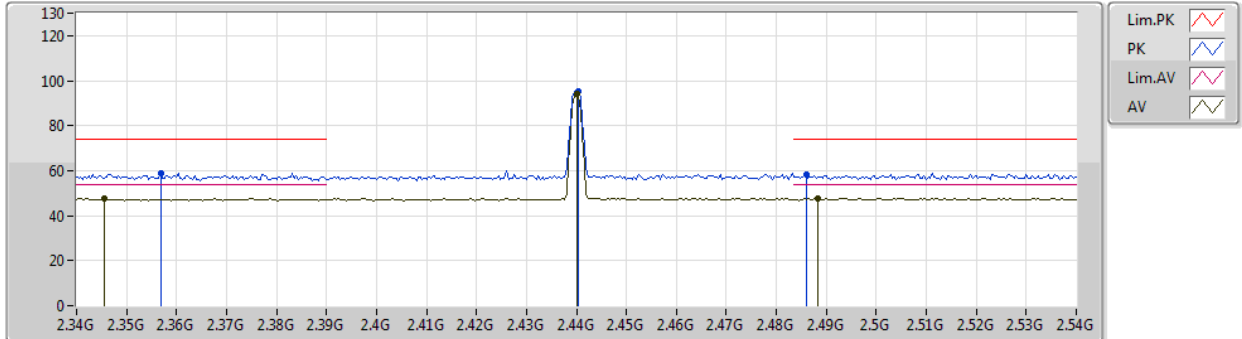


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3452G	47.86	54.00	-6.14	31.44	3	Vertical	204	2.91	-	16.42	27.81	3.63	-
AV	2.44G	90.96	Inf	-Inf	31.37	3	Vertical	204	2.91	-	59.59	27.66	3.71	-
AV	2.496G	48.02	54.00	-5.98	31.36	3	Vertical	204	2.91	-	16.66	27.60	3.76	-
PK	2.3568G	58.61	74.00	-15.39	31.43	3	Vertical	204	2.91	-	27.18	27.79	3.64	-
PK	2.4396G	91.91	Inf	-Inf	31.37	3	Vertical	204	2.91	-	60.54	27.66	3.71	-
PK	2.492G	58.98	74.00	-15.02	31.36	3	Vertical	204	2.91	-	27.62	27.61	3.75	-

BT-LE(1Mbps)

2440MHz_TX

05/07/2019

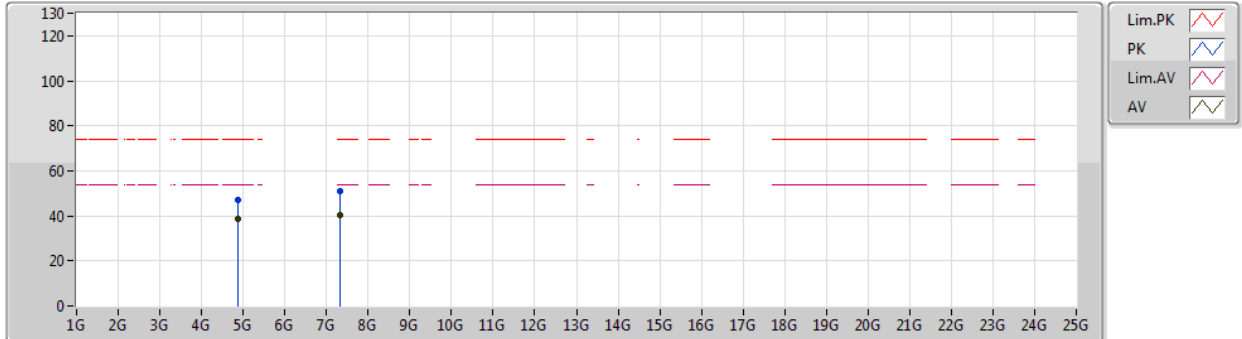


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3456G	47.85	54.00	-6.15	31.44	3	Horizontal	292	1.50	-	16.41	27.81	3.63	-
AV	2.44G	94.20	Inf	-Inf	31.37	3	Horizontal	292	1.50	-	62.83	27.66	3.71	-
AV	2.4884G	47.78	54.00	-6.22	31.36	3	Horizontal	292	1.50	-	16.42	27.61	3.75	-
PK	2.3568G	58.68	74.00	-15.32	31.43	3	Horizontal	292	1.50	-	27.25	27.79	3.64	-
PK	2.4404G	95.15	Inf	-Inf	31.37	3	Horizontal	292	1.50	-	63.78	27.66	3.71	-
PK	2.486G	58.02	74.00	-15.98	31.36	3	Horizontal	292	1.50	-	26.66	27.61	3.75	-

BT-LE(1Mbps)

2440MHz_TX

05/07/2019

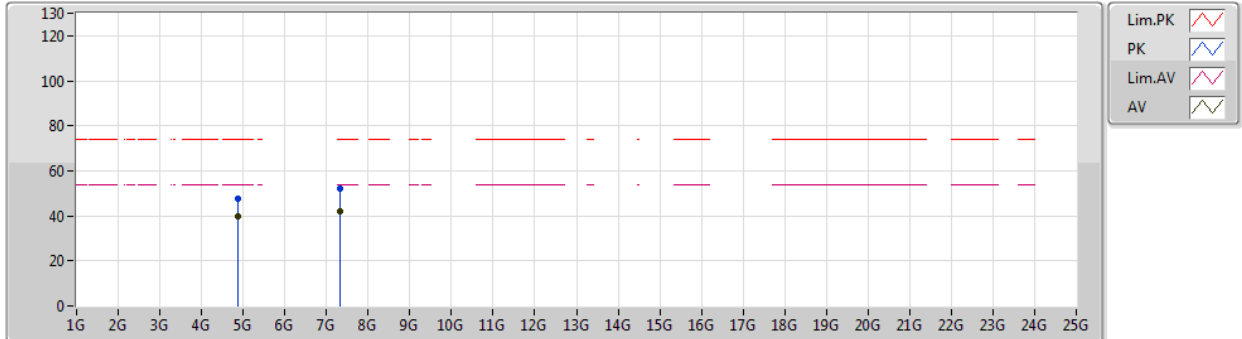


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87971G	38.44	54.00	-15.56	1.81	3	Vertical	210	1.50	-	36.63	31.28	5.36	34.83
AV	7.31931G	40.56	54.00	-13.44	8.01	3	Vertical	159	1.57	-	32.55	36.48	6.62	35.09
PK	4.8794G	46.96	74.00	-27.04	1.81	3	Vertical	210	1.50	-	45.15	31.28	5.36	34.83
PK	7.31938G	51.19	74.00	-22.81	8.01	3	Vertical	159	1.57	-	43.18	36.48	6.62	35.09

BT-LE(1Mbps)

2440MHz_TX

05/07/2019

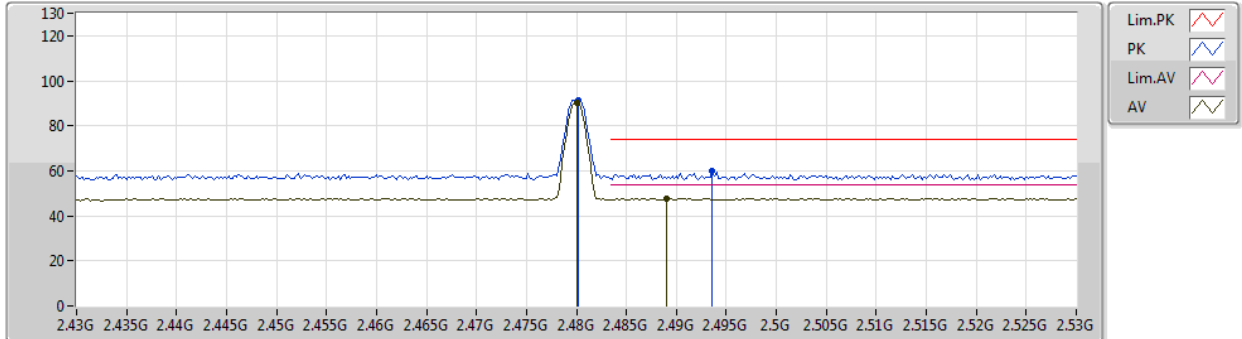


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87982G	39.85	54.00	-14.15	1.81	3	Horizontal	24	1.89	-	38.04	31.28	5.36	34.83
AV	7.31917G	41.88	54.00	-12.12	8.01	3	Horizontal	54	1.44	-	33.87	36.48	6.62	35.09
PK	4.88048G	47.53	74.00	-26.47	1.81	3	Horizontal	24	1.89	-	45.72	31.28	5.36	34.83
PK	7.31939G	52.26	74.00	-21.74	8.01	3	Horizontal	54	1.44	-	44.25	36.48	6.62	35.09

BT-LE(1Mbps)

2480MHz_TX

05/07/2019

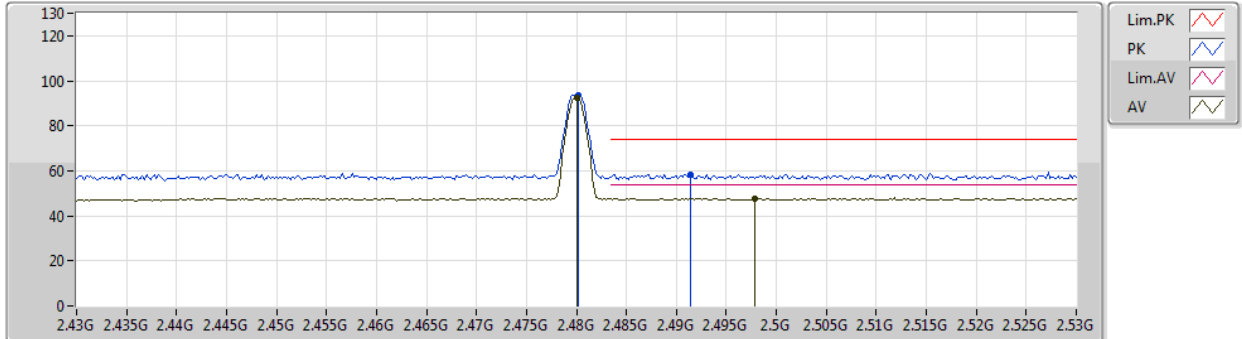


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	90.25	Inf	-Inf	31.36	3	Vertical	202	1.05	-	58.89	27.62	3.74	-
AV	2.489G	47.78	54.00	-6.22	31.36	3	Vertical	202	1.05	-	16.42	27.61	3.75	-
PK	2.4802G	91.22	Inf	-Inf	31.36	3	Vertical	202	1.05	-	59.86	27.62	3.74	-
PK	2.4936G	59.71	74.00	-14.29	31.36	3	Vertical	202	1.05	-	28.35	27.61	3.75	-

BT-LE(1Mbps)

2480MHz_TX

05/07/2019

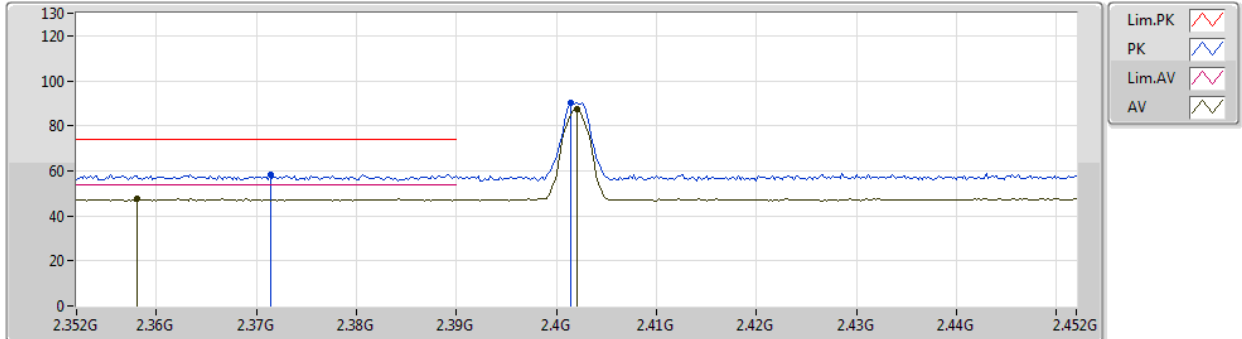


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	92.53	Inf	-Inf	31.36	3	Horizontal	295	1.50	-	61.17	27.62	3.74	-
AV	2.4978G	47.77	54.00	-6.23	31.36	3	Horizontal	295	1.50	-	16.41	27.60	3.76	-
PK	2.4802G	93.47	Inf	-Inf	31.36	3	Horizontal	295	1.50	-	62.11	27.62	3.74	-
PK	2.4914G	58.40	74.00	-15.60	31.36	3	Horizontal	295	1.50	-	27.04	27.61	3.75	-

BT-LE(2Mbps)

2402MHz_TX

05/07/2019

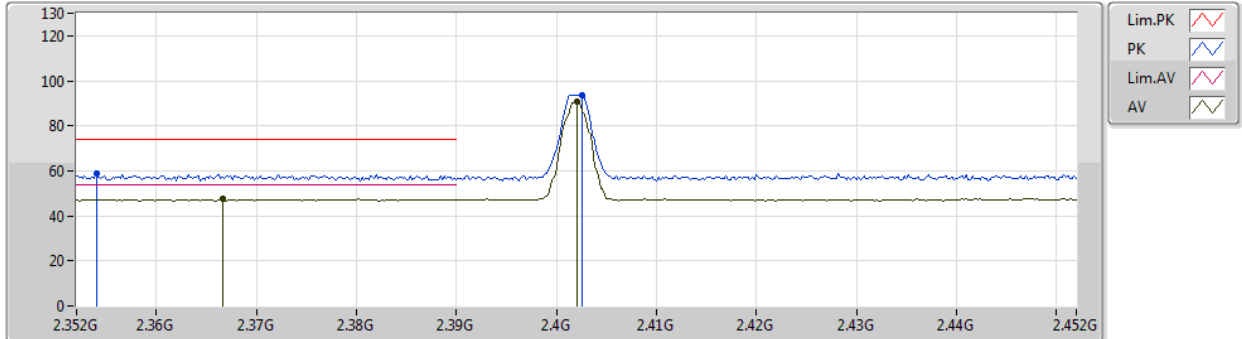


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.358G	47.53	54.00	-6.47	31.42	3	Vertical	198	1.15	-	16.11	27.78	3.64	-
AV	2.402G	87.36	Inf	-Inf	31.37	3	Vertical	198	1.15	-	55.99	27.70	3.67	-
PK	2.3714G	58.53	74.00	-15.47	31.41	3	Vertical	198	1.15	-	27.12	27.76	3.65	-
PK	2.4014G	90.19	Inf	-Inf	31.37	3	Vertical	198	1.15	-	58.82	27.70	3.67	-

BT-LE(2Mbps)

2402MHz_TX

05/07/2019

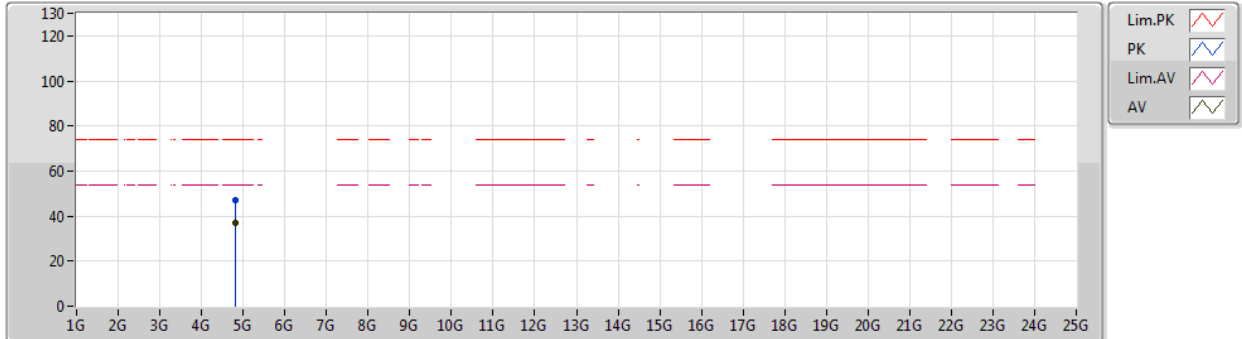


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3666G	47.50	54.00	-6.50	31.42	3	Horizontal	293	1.50	-	16.08	27.77	3.65	-
AV	2.402G	90.81	Inf	-Inf	31.37	3	Horizontal	293	1.50	-	59.44	27.70	3.67	-
PK	2.354G	58.76	74.00	-15.24	31.43	3	Horizontal	293	1.50	-	27.33	27.79	3.64	-
PK	2.4026G	93.65	Inf	-Inf	31.37	3	Horizontal	293	1.50	-	62.28	27.70	3.67	-

BT-LE(2Mbps)

2402MHz_TX

05/07/2019

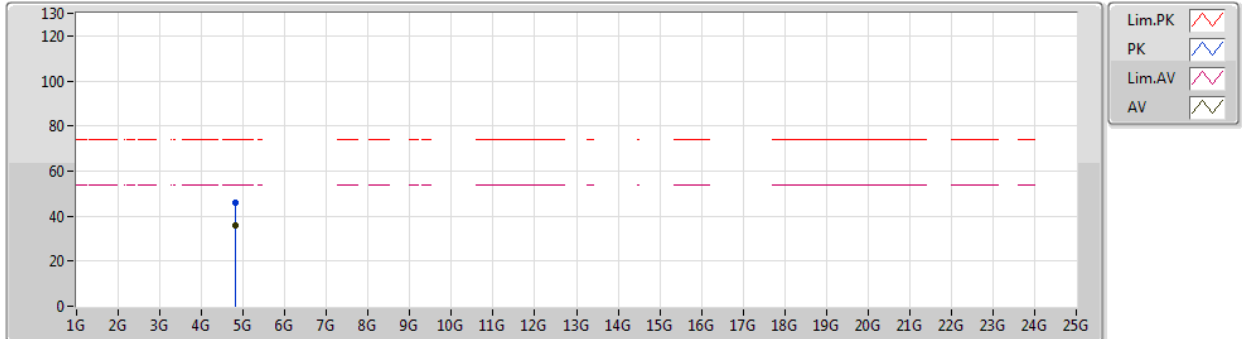


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80308G	37.21	54.00	-16.79	1.67	3	Vertical	203	1.41	-	35.54	31.20	5.32	34.85
PK	4.80478G	46.99	74.00	-27.01	1.67	3	Vertical	203	1.41	-	45.32	31.20	5.32	34.85

BT-LE(2Mbps)

2402MHz_TX

05/07/2019

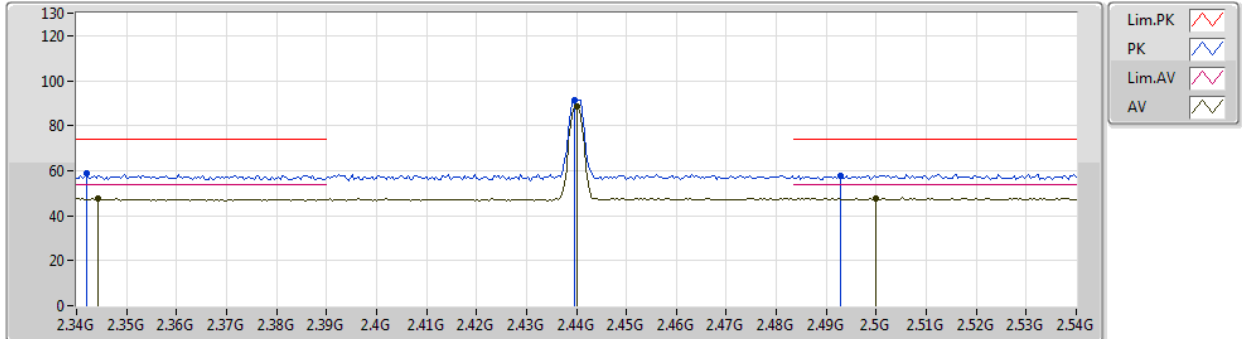


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80303G	36.12	54.00	-17.88	1.67	3	Horizontal	28	1.50	-	34.45	31.20	5.32	34.85
PK	4.80407G	46.19	74.00	-27.81	1.67	3	Horizontal	28	1.50	-	44.52	31.20	5.32	34.85

BT-LE(2Mbps)

2440MHz_TX

05/07/2019

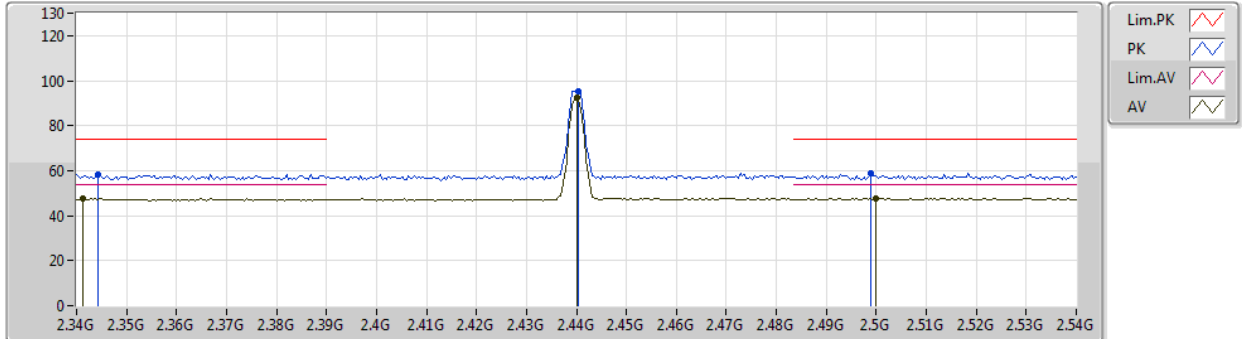


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3444G	47.61	54.00	-6.39	31.44	3	Vertical	204	2.98	-	16.17	27.81	3.63	-
AV	2.44G	88.74	Inf	-Inf	31.37	3	Vertical	204	2.98	-	57.37	27.66	3.71	-
AV	2.5G	47.77	54.00	-6.23	31.36	3	Vertical	204	2.98	-	16.41	27.60	3.76	-
PK	2.342G	59.04	74.00	-14.96	31.45	3	Vertical	204	2.98	-	27.59	27.82	3.63	-
PK	2.4396G	91.56	Inf	-Inf	31.37	3	Vertical	204	2.98	-	60.19	27.66	3.71	-
PK	2.4928G	57.94	74.00	-16.06	31.36	3	Vertical	204	2.98	-	26.58	27.61	3.75	-

BT-LE(2Mbps)

2440MHz_TX

05/07/2019

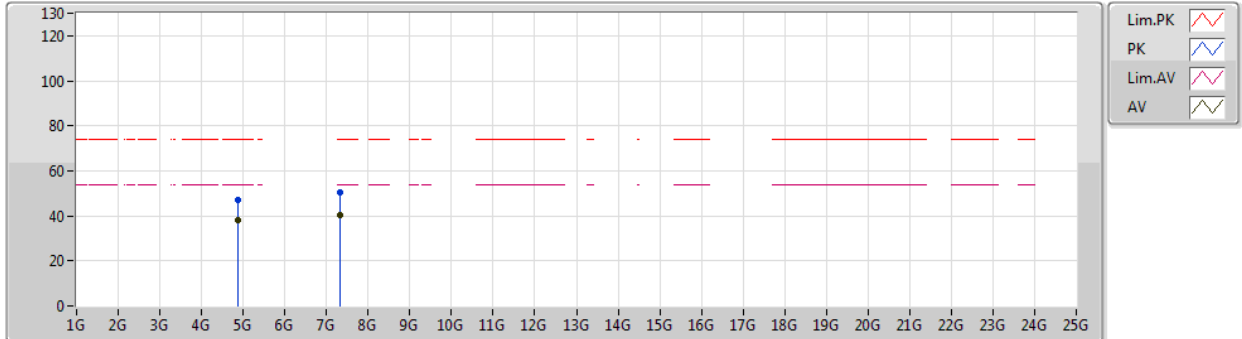


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3412G	47.63	54.00	-6.37	31.45	3	Horizontal	296	1.50	-	16.18	27.82	3.63	-
AV	2.44G	92.48	Inf	-Inf	31.37	3	Horizontal	296	1.50	-	61.11	27.66	3.71	-
AV	2.5G	47.77	54.00	-6.23	31.36	3	Horizontal	296	1.50	-	16.41	27.60	3.76	-
PK	2.3444G	58.53	74.00	-15.47	31.44	3	Horizontal	296	1.50	-	27.09	27.81	3.63	-
PK	2.4404G	95.28	Inf	-Inf	31.37	3	Horizontal	296	1.50	-	63.91	27.66	3.71	-
PK	2.4988G	58.83	74.00	-15.17	31.36	3	Horizontal	296	1.50	-	27.47	27.60	3.76	-

BT-LE(2Mbps)

2440MHz_TX

05/07/2019

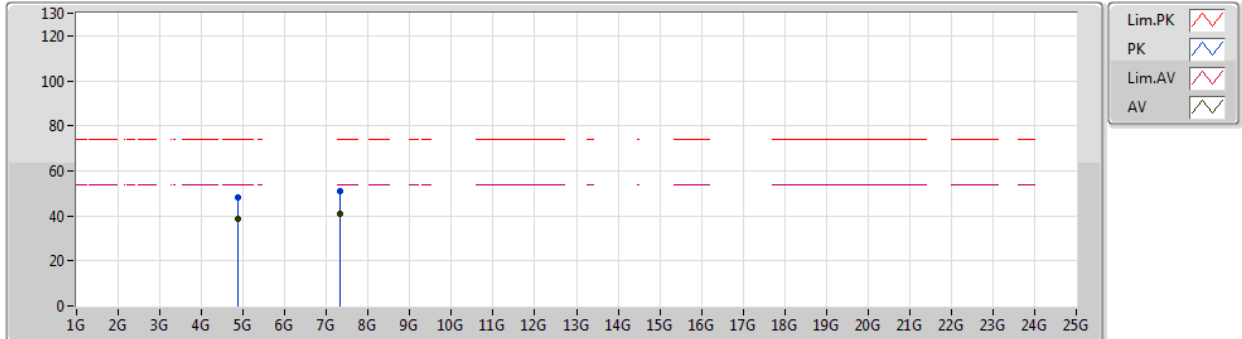


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87893G	37.86	54.00	-16.14	1.81	3	Vertical	208	1.50	-	36.05	31.28	5.36	34.83
AV	7.31863G	40.32	54.00	-13.68	8.01	3	Vertical	346	1.36	-	32.31	36.48	6.62	35.09
PK	4.87891G	47.22	74.00	-26.78	1.81	3	Vertical	208	1.50	-	45.41	31.28	5.36	34.83
PK	7.31777G	50.57	74.00	-23.43	8.01	3	Vertical	346	1.36	-	42.56	36.48	6.62	35.09

BT-LE(2Mbps)

2440MHz_TX

05/07/2019

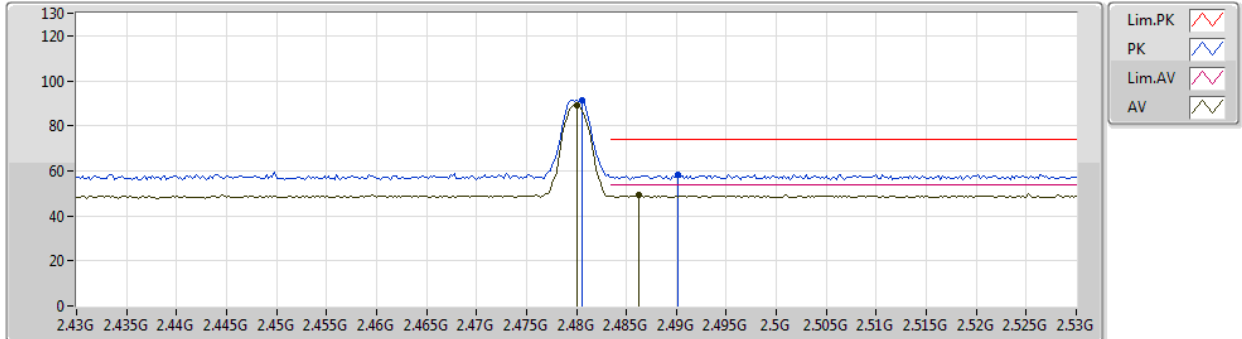


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87899G	38.40	54.00	-15.60	1.81	3	Horizontal	19	1.86	-	36.59	31.28	5.36	34.83
AV	7.31849G	41.07	54.00	-12.93	8.01	3	Horizontal	54	1.51	-	33.06	36.48	6.62	35.09
PK	4.88094G	47.93	74.00	-26.07	1.81	3	Horizontal	19	1.86	-	46.12	31.28	5.36	34.83
PK	7.31867G	51.25	74.00	-22.75	8.01	3	Horizontal	54	1.51	-	43.24	36.48	6.62	35.09

BT-LE(2Mbps)

2480MHz_TX

05/07/2019

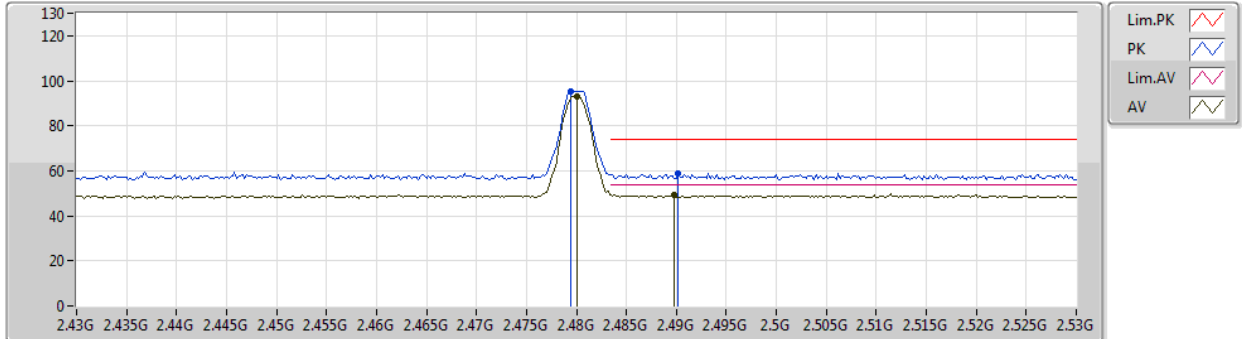


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	88.98	Inf	-Inf	31.36	3	Vertical	201	1.14	-	57.62	27.62	3.74	-
AV	2.4862G	49.19	54.00	-4.81	31.36	3	Vertical	201	1.14	-	17.83	27.61	3.75	-
PK	2.4806G	91.26	Inf	-Inf	31.36	3	Vertical	201	1.14	-	59.90	27.62	3.74	-
PK	2.4902G	58.32	74.00	-15.68	31.36	3	Vertical	201	1.14	-	26.96	27.61	3.75	-

BT-LE(2Mbps)

2480MHz_TX

05/07/2019

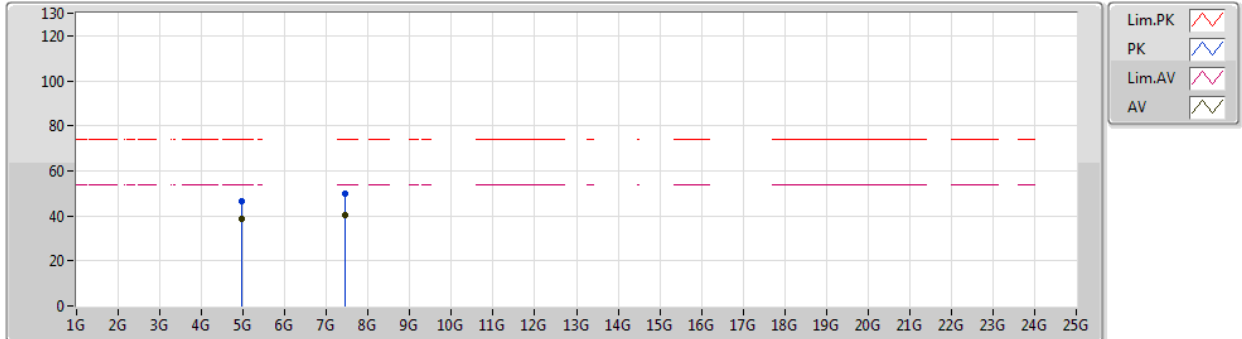


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	93.24	Inf	-Inf	31.36	3	Horizontal	294	1.02	-	61.88	27.62	3.74	-
AV	2.4898G	49.40	54.00	-4.60	31.36	3	Horizontal	294	1.02	-	18.04	27.61	3.75	-
PK	2.4794G	95.48	Inf	-Inf	31.36	3	Horizontal	294	1.02	-	64.12	27.62	3.74	-
PK	2.4902G	59.05	74.00	-14.95	31.36	3	Horizontal	294	1.02	-	27.69	27.61	3.75	-

BT-LE(2Mbps)

2480MHz_TX

05/07/2019

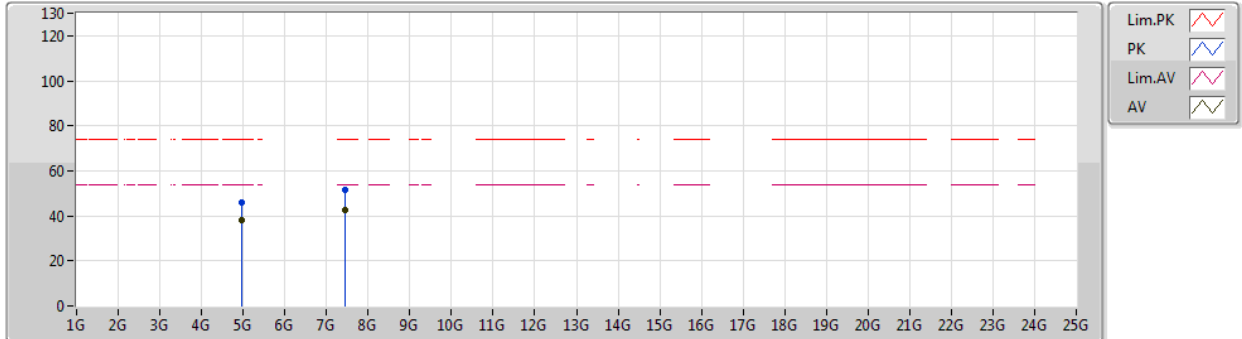


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96G	38.87	54.00	-15.13	2.01	3	Vertical	115	2.28	-	36.86	31.42	5.40	34.81
AV	7.43886G	40.15	54.00	-13.85	7.95	3	Vertical	213	1.45	-	32.20	36.40	6.66	35.11
PK	4.95908G	46.62	74.00	-27.38	2.01	3	Vertical	115	2.28	-	44.61	31.42	5.40	34.81
PK	7.4377G	49.72	74.00	-24.28	7.95	3	Vertical	213	1.45	-	41.77	36.40	6.66	35.11

BT-LE(2Mbps)

2480MHz_TX

05/07/2019



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	4.95991G	38.04	54.00	-15.96	2.01	3	Horizontal	21	1.50	-	36.03	31.42	5.40	34.81
AV	7.43841G	42.45	54.00	-11.55	7.95	3	Horizontal	51	1.50	-	34.50	36.40	6.66	35.11
PK	4.95903G	45.71	74.00	-28.29	2.01	3	Horizontal	21	1.50	-	43.70	31.42	5.40	34.81
PK	7.44095G	51.28	74.00	-22.72	7.95	3	Horizontal	51	1.50	-	43.33	36.40	6.66	35.11