



FCC Test Report

Equipment : WAM2
Brand Name : Whistle
Model No. : AM2A
FCC ID : S8W-AM2A
Standard : 47 CFR FCC Part 15.247
Frequency : 2400 MHz – 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant /
Manufacturer : Whistle Labs, Inc
1355 Market Street Suite 210 San Francisco,
CA 94103, USA

The product sample received on Aug. 16, 2017 and completely tested on Oct. 26, 2017. We, SPORTON, 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., the test report shall not be reproduced except in full.


Phoenix Chen / Assistant Manager
SPORTON INTERNATIONAL INC.





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PHOTOGRAPHS OF EUT V01



Summary of Test Result

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



Revision History

Report No.	Version	Description	Issued Date
FR781005AL	Rev. 01	Initial issue of report	Oct. 23, 2017
FR781005AL	Rev. 02	Revise Test Result of Emissions in Restricted Frequency Bands. This report is the latest version replacing for the report issued on Oct. 23, 2017.	Oct. 27, 2017



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

Note:

- ♦ Bluetooth LE uses a GFSK (1Mbps) modulation for DSSS.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Skyline	EFWH-001	FPC	Mini I-PEX	-2.05

1.1.3 EUT Information

Identify EUT	
BT Chip	Brand: TI / Model Name: CC2640R2
Operational Condition	
EUT Power Type	From Host system
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	0.655	1.838	409.375u	3k

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 v04

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
RF Conducted	TH01-HY	Lisa	23.3°C / 61%	11/Oct/2017
Radiated	03CH02-HY	Andy	25.6°C / 58%	26/Oct/2017
AC Conduction	CO04-HY	Ryan	24.2°C / 62%	25/Aug/2017

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)	3.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	2.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
RF Conducted-DTS	Abbreviation	Remark
TnomVnom	Tnom	20°C
	Vnom	120V

2.2 Test Channel Mode




Test Software Version	HCI Tester 2.3.5.0
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Mode	Power Setting
BT-LE(1Mbps)	-
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

Accessories		
USB Cable	Signal Line	1 meter, non-shielded cable, w/o ferrite core

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

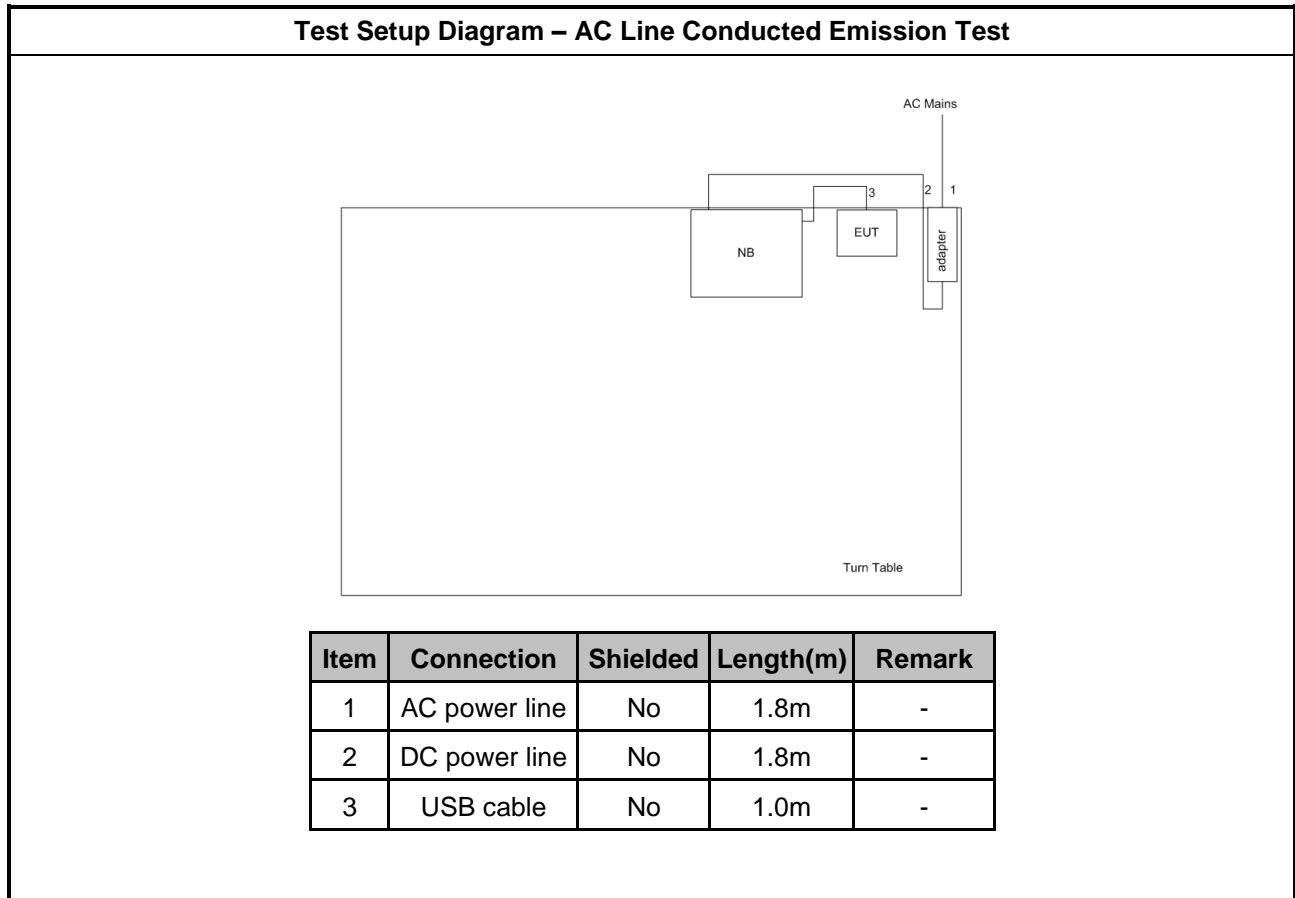
2.5 Support Equipment

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

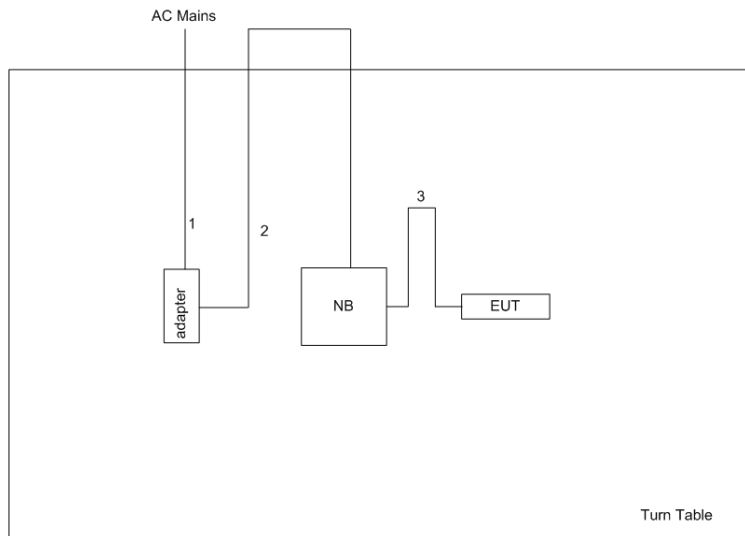
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5530	R33002
2	Adapter for NB	DELL	LA65NS2-01	DoC

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5540	DoC
2	Adapter for NB	DELL	LA65NS2-01	DoC

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC power line	No	1.5m	-
2	DC power line	No	1.5m	-
3	USB cable	No	1m	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

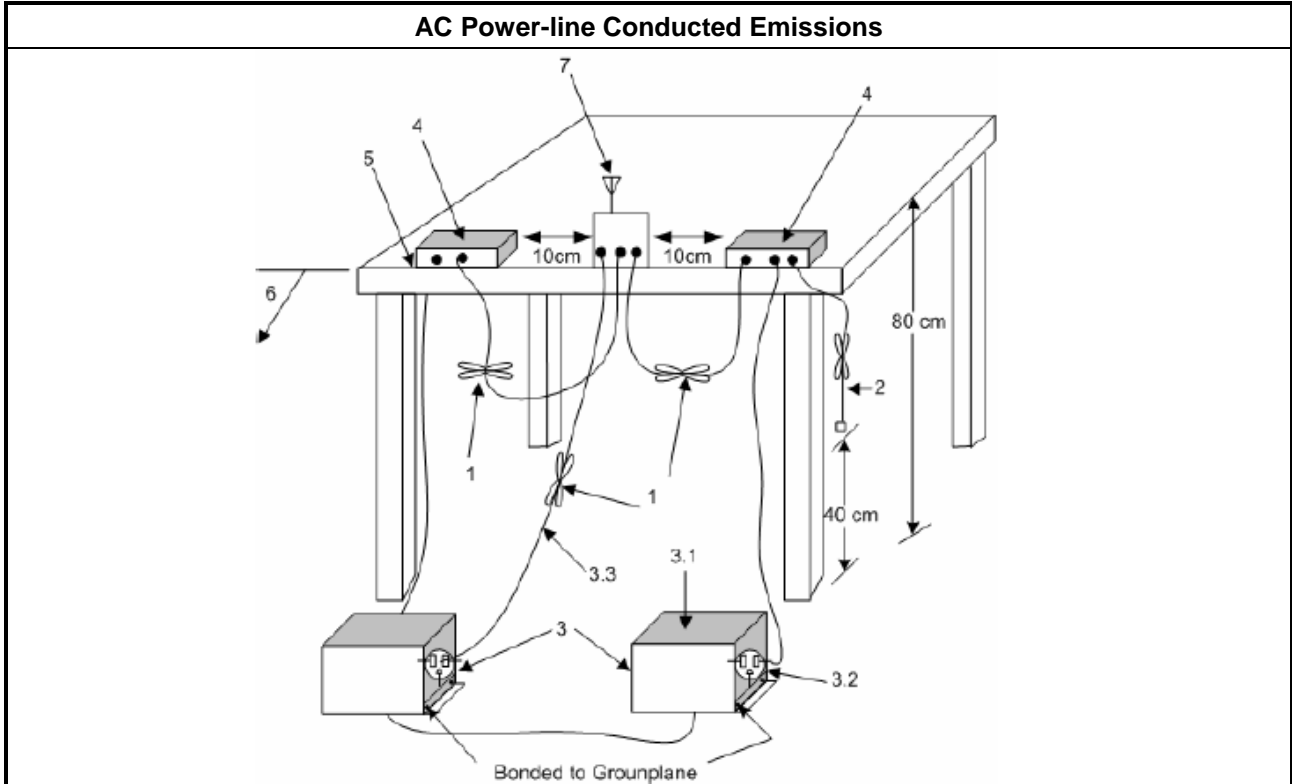
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<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.

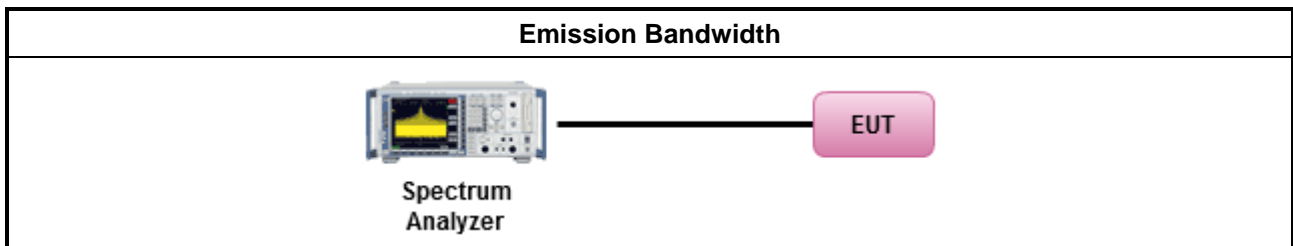
3.2.2 Measuring Instruments

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 8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
<input type="checkbox"/> Refer as RSS-Gen, clause 6.6 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

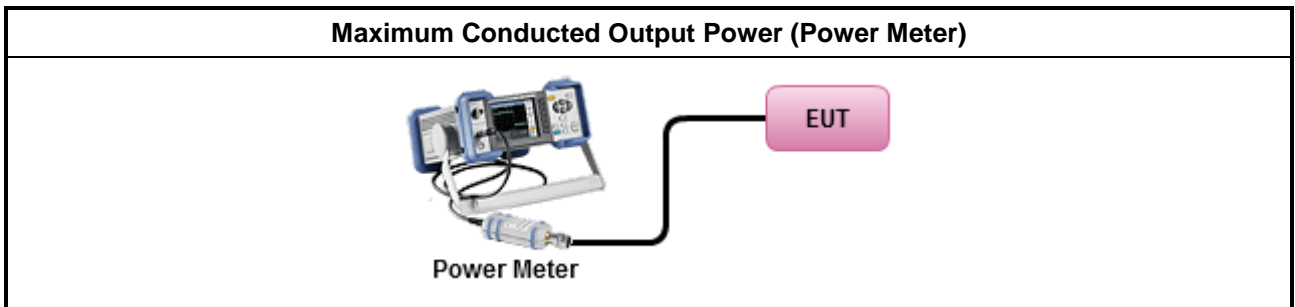
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.2 Option 2 (integrated band power method)
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.3 Option 3 (peak power meter for VBW ≥ DTS BW)
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
Duty cycle ≥ 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
Duty cycle < 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger	
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 9.2.3.1 Method AVGPM (using an RF average 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

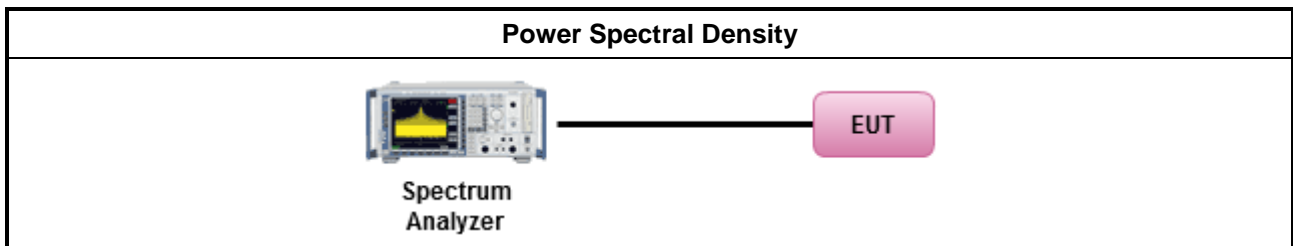
3.4.2 Measuring Instruments

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 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).
	<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 PSD 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 PSD level.

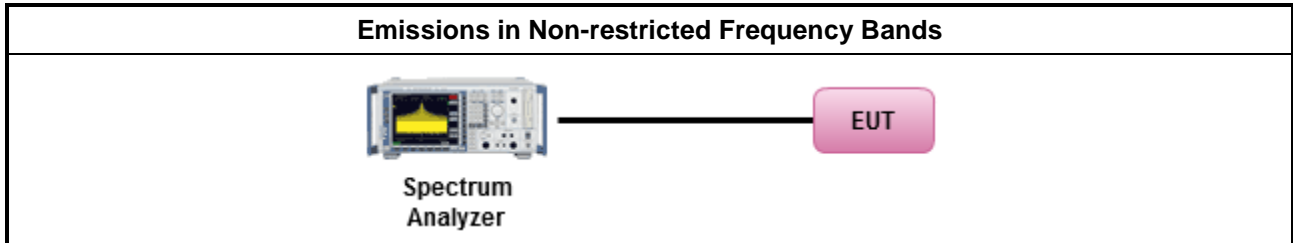
3.5.2 Measuring Instruments

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 11 for unwanted emissions into non-restricted 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

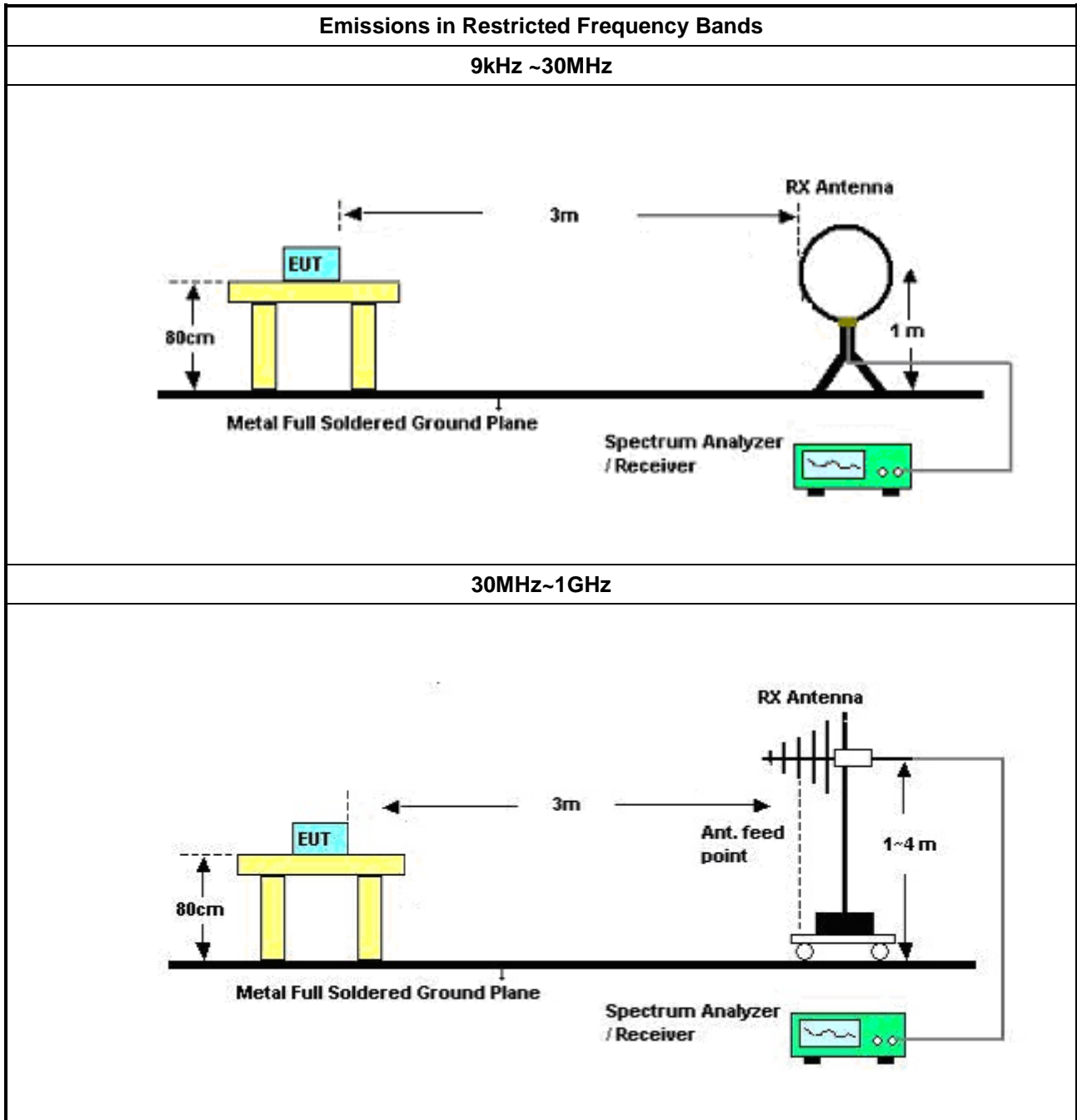
Refer a test equipment and calibration data table in this test report.

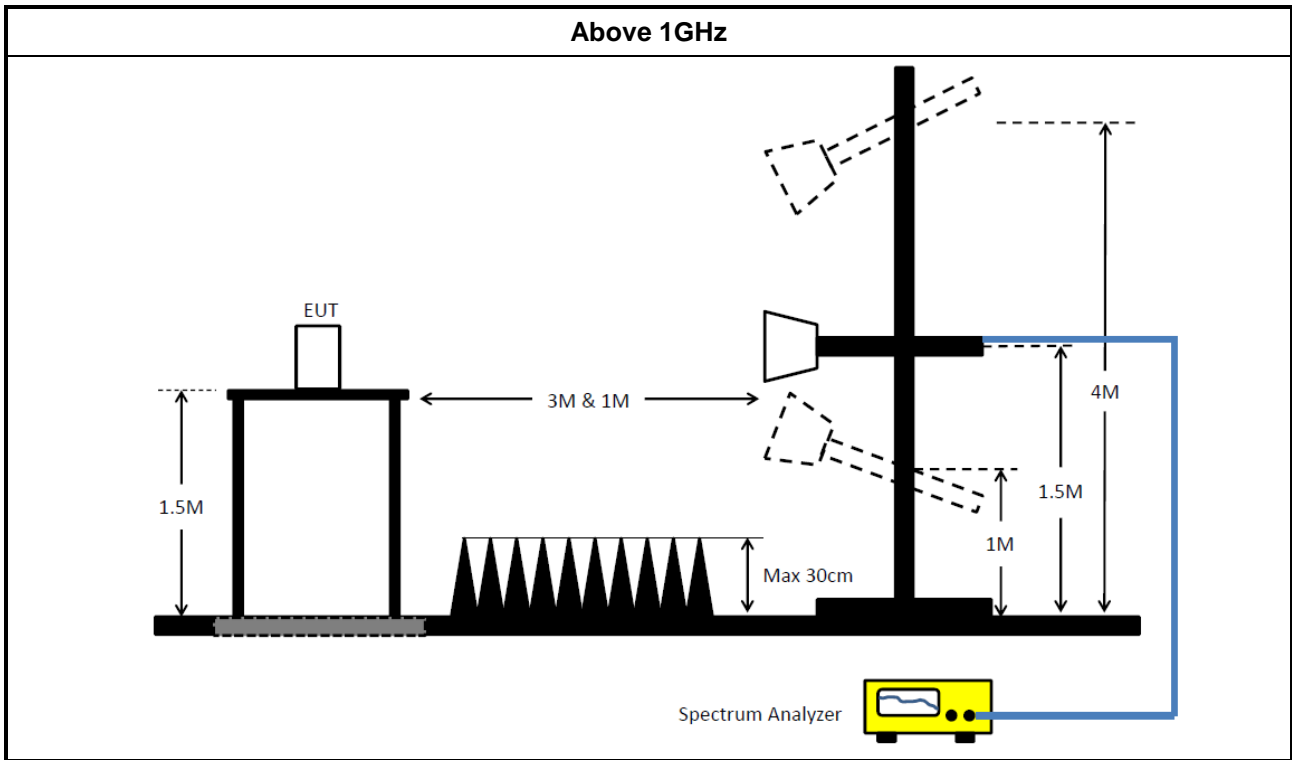


3.6.3 Test Procedures

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 12 for unwanted emissions into restricted bands. 	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Refer as KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW\geq1/T.
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Refer as KDB 558074, clause 12.2.4 measurement procedure peak limit.
<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 13.1, 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 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements. 	
<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz). 	
<ul style="list-style-type: none"> ▪ For conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2. 	
<ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB 	
<ul style="list-style-type: none"> ▪ For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred. 	

3.6.4 Test Setup





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

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	29/Apr/2017	28/Apr/2018
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	15/Nov/2016	14/Nov/2017
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	24/Oct/2016	23/Oct/2017
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	R&S	ESH3-Z2	100921	10 kHz ~ 30 MHz	21/Oct/2016	20/Oct/2017

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP40	100593	9KHz - 40GHz	28/Jun/2017	27/Jun/2018
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz-1GHz	15/Oct/2017	16/Oct/2018
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz	12/Dec/2016	11/Dec/2017
Amplifier	Agilent	8447D	2944A11149	100KHz-1.3GHz	29/Jun/2017	28/Jun/2018
Amplifier	KEYSIGHT	83017A	MY53270197	1GHz ~ 26.5GHz	31/Aug/2017	30/Aug/2018
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D 01531	1GHz-18GHz	11/May/2017	10/May/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18GHz-40GHz	06/Feb/2017	05/Feb/2018
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	08/Jul/2017	07/Jul/2018
Loop Antenna	TESEQ	HLA 6120	31244	9KHz-30MHz	02/Mar/2017	01/Mar/2018
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	26/Jan/2017	25/Jan/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Jan/2017	25/Jan/2018
Receiver	R&S	ESR3	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018



Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018



AC Power-line Conducted Emissions Result																																																																																																																																	
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Summary

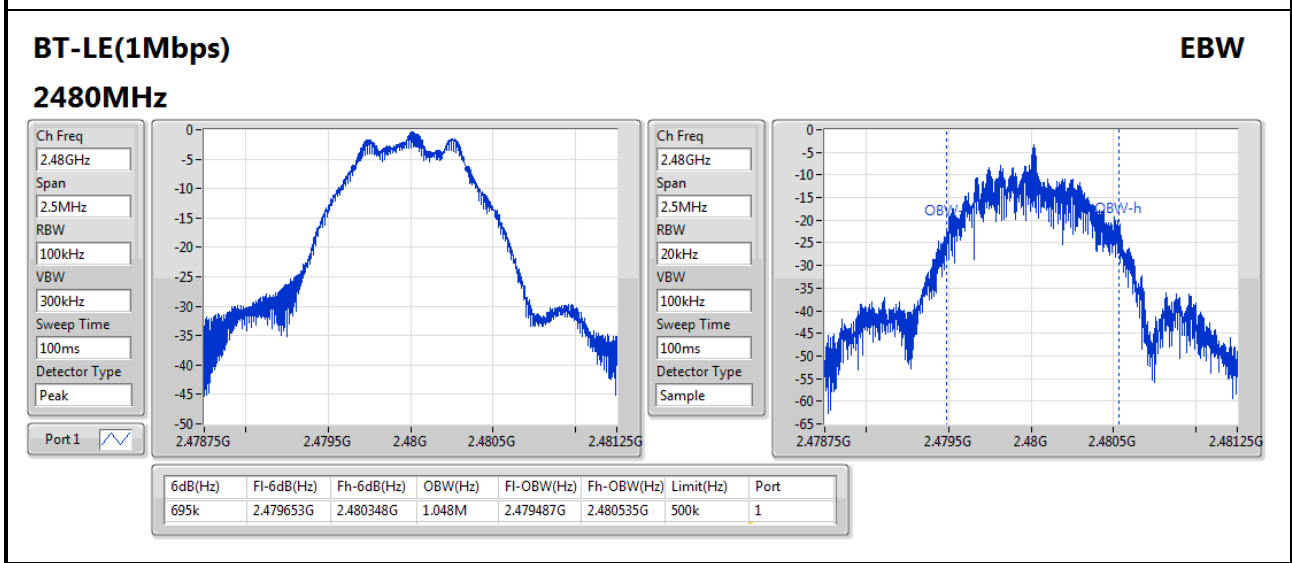
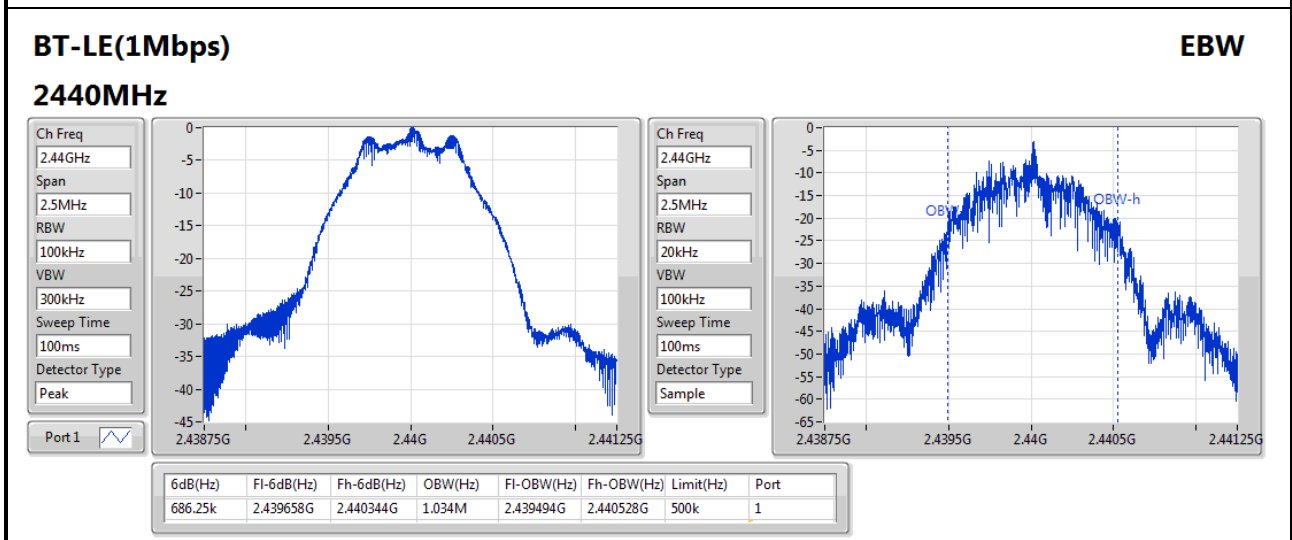
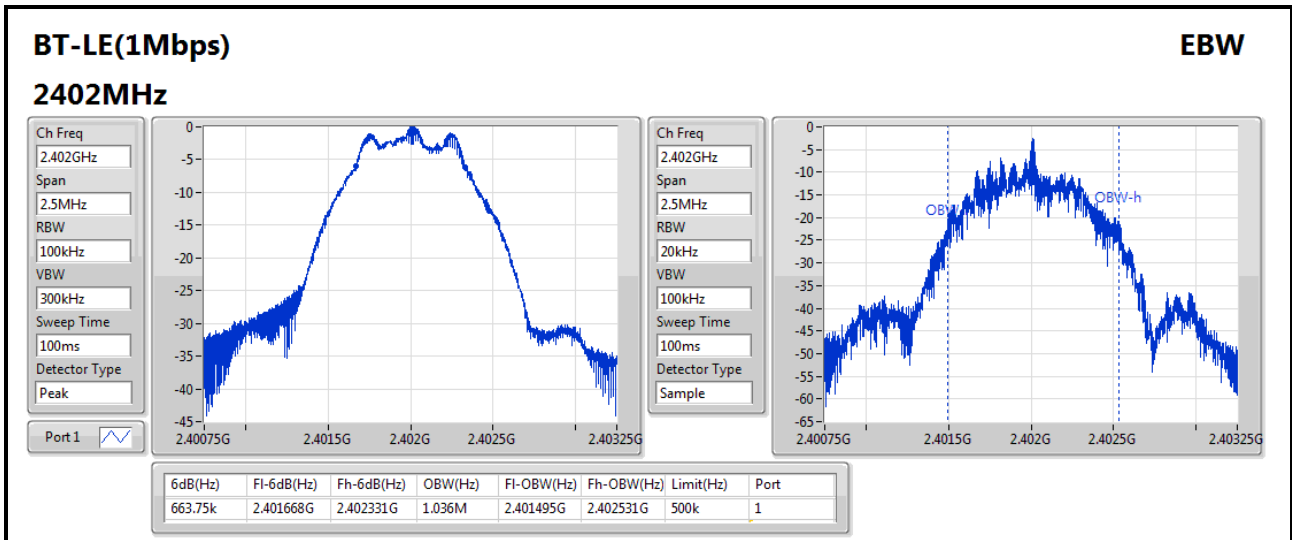
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-	-
2.4-2.4835GHz	695k	1.048M	1M05F1D	663.75k	1.034M

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	Pass	500k	663.75k	1.036M
2440MHz_TnomVnom	Pass	500k	686.25k	1.034M
2480MHz_TnomVnom	Pass	500k	695k	1.048M

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





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	-0.89	0.00081

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-2.05	-0.89	30.00
2440MHz_TnomVnom	Pass	-2.05	-1.28	30.00
2480MHz_TnomVnom	Pass	-2.05	-1.62	30.00



Summary

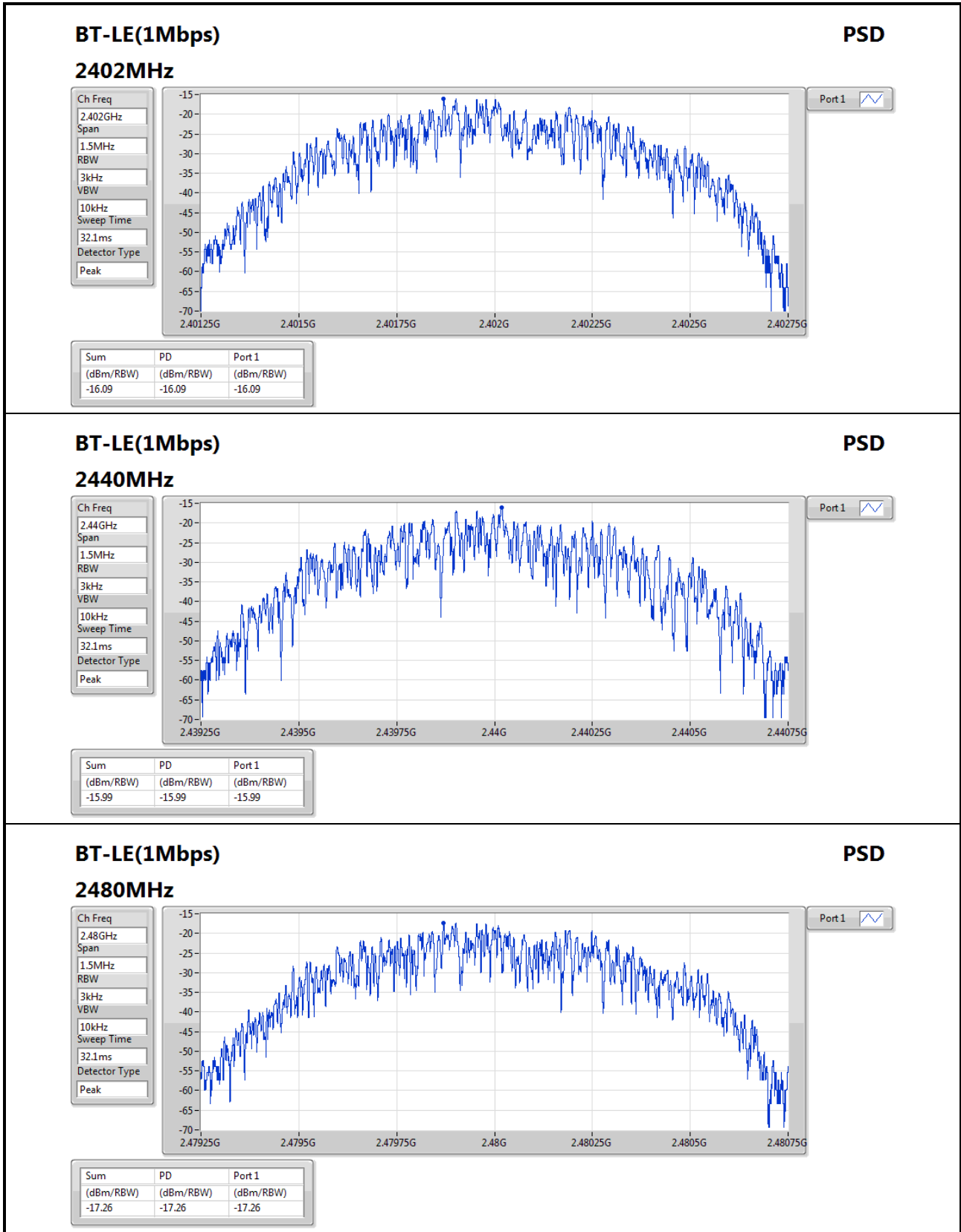
Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-15.99

RBW=3kHz.

Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-2.05	-16.09	8.00
2440MHz_TnomVnom	Pass	-2.05	-15.99	8.00
2480MHz_TnomVnom	Pass	-2.05	-17.26	8.00

RBW=3kHz.



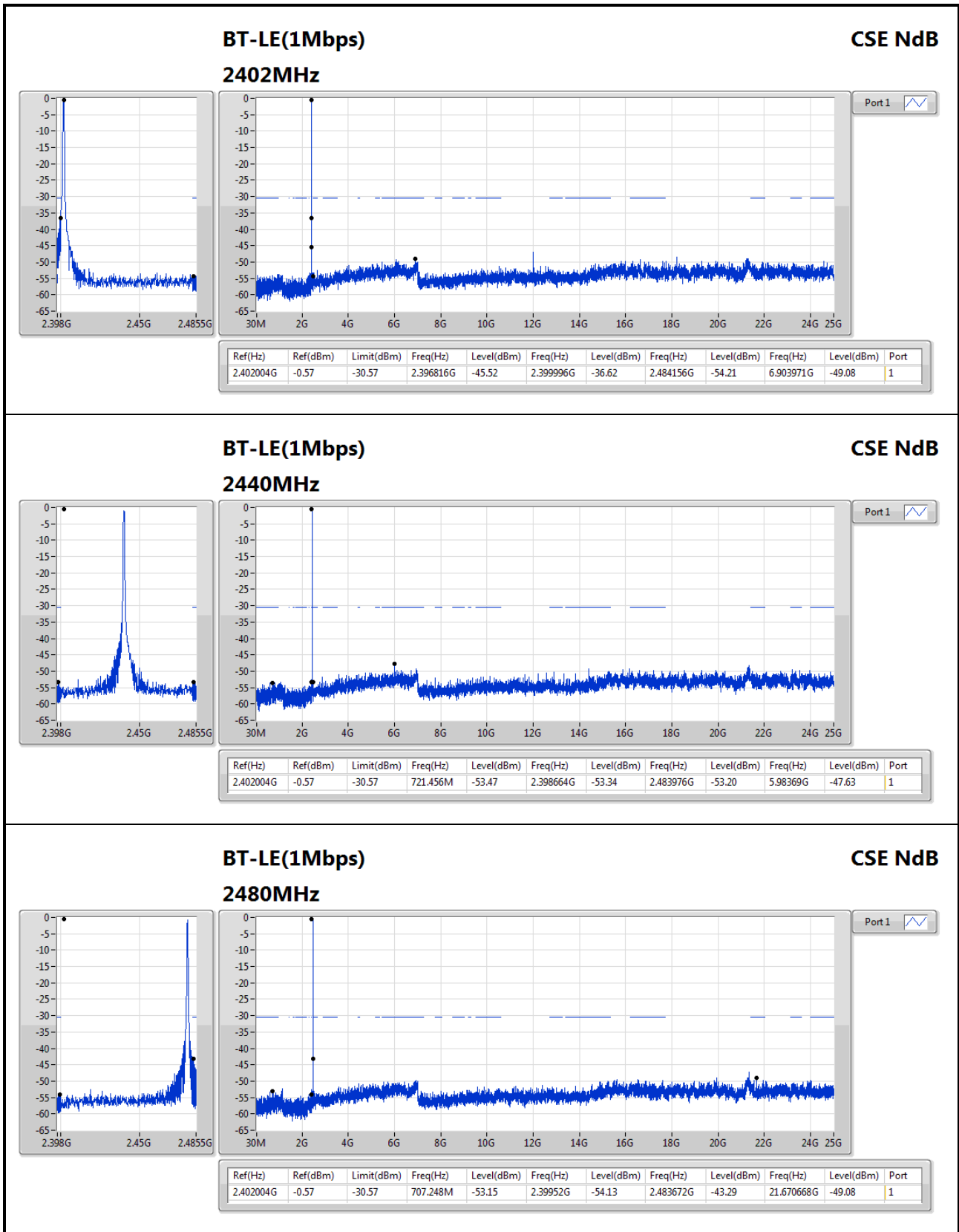


Summary

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
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.402004G	-0.57	-30.57	2.396816G	-45.52	2.399996G	-36.62	2.484156G	-54.21	6.903971G	-49.08	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_TnomVnom	Pass	2.402004G	-0.57	-30.57	2.396816G	-45.52	2.399996G	-36.62	2.484156G	-54.21	6.903971G	-49.08	1
2440MHz_TnomVnom	Pass	2.402004G	-0.57	-30.57	721.456M	-53.47	2.398664G	-53.34	2.483976G	-53.20	5.98369G	-47.63	1
2480MHz_TnomVnom	Pass	2.402004G	-0.57	-30.57	707.248M	-53.15	2.39952G	-54.13	2.483672G	-43.29	21.670668G	-49.08	1





Summary

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)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	PK	862.26M	31.11	46.00	-14.89	2.34	3	Vertical	360	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(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	10.128k	62.10	128.42	-66.32	21.88	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	36.072k	62.43	126.55	-64.12	21.81	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	89.088k	53.09	122.72	-69.63	20.87	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	1.1649M	49.41	67.80	-18.39	20.78	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	2.3589M	42.52	69.50	-26.98	20.63	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	17.7018M	34.69	69.50	-34.81	22.63	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	30M	23.63	40.00	-16.37	-5.15	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	90.14M	22.31	43.50	-21.19	-12.49	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	192.96M	27.81	43.50	-15.69	-11.24	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	503.36M	25.59	46.00	-20.41	-2.46	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	579.02M	27.37	46.00	-18.63	-1.18	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	852.56M	30.50	46.00	-15.50	2.16	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	47.46M	23.99	40.00	-16.01	-12.57	3	Vertical	360	1.00	-
2440MHz	Pass	PK	90.14M	26.16	43.50	-17.34	-12.49	3	Vertical	360	1.00	-
2440MHz	Pass	PK	192.96M	26.34	43.50	-17.16	-11.24	3	Vertical	360	1.00	-
2440MHz	Pass	PK	322.94M	23.82	46.00	-22.18	-6.11	3	Vertical	360	1.00	-
2440MHz	Pass	PK	571.26M	27.65	46.00	-18.35	-1.16	3	Vertical	360	1.00	-
2440MHz	Pass	PK	862.26M	31.11	46.00	-14.89	2.34	3	Vertical	360	1.00	-

BT-LE(1Mbps)

2440MHz_USB

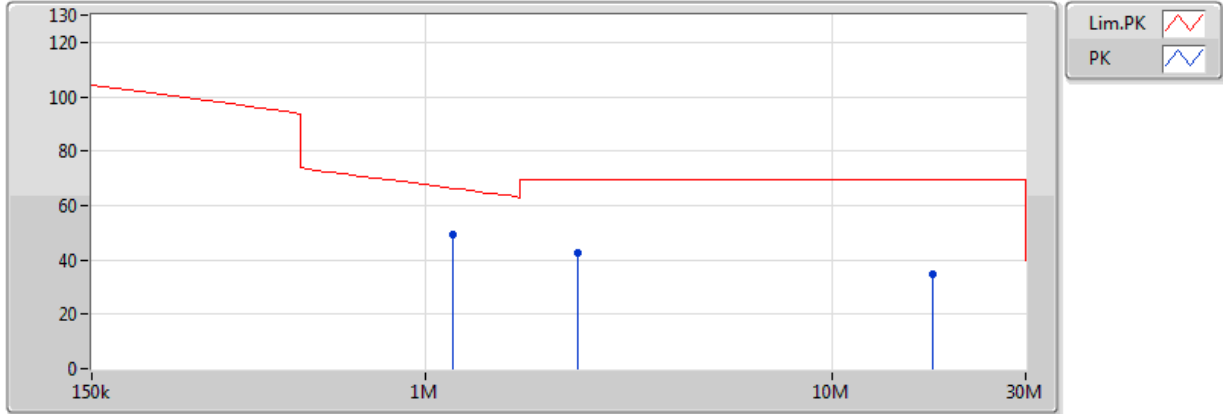


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	10.128k	62.10	128.42	-66.32	21.88	3	Horizontal	360	1.00	-	40.22	21.80	0.08	-
PK	36.072k	62.43	126.55	-64.12	21.81	3	Horizontal	360	1.00	-	40.62	21.73	0.08	-
PK	89.088k	53.09	122.72	-69.63	20.87	3	Horizontal	360	1.00	-	32.22	20.79	0.08	-

BT-LE(1Mbps)

2440MHz_USB

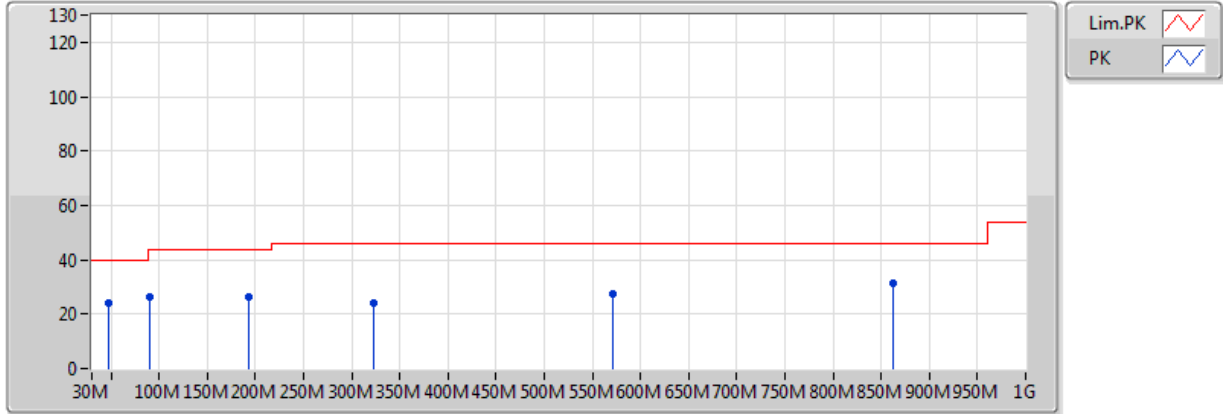


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	1.1649M	49.41	67.80	-18.39	20.78	3	Horizontal	0	1.00	-	28.63	20.68	0.10	-
PK	2.3589M	42.52	69.50	-26.98	20.63	3	Horizontal	0	1.00	-	21.89	20.50	0.13	-
PK	17.7018M	34.69	69.50	-34.81	22.63	3	Horizontal	0	1.00	-	12.06	22.19	0.43	-

BT-LE(1Mbps)

2440MHz_USB

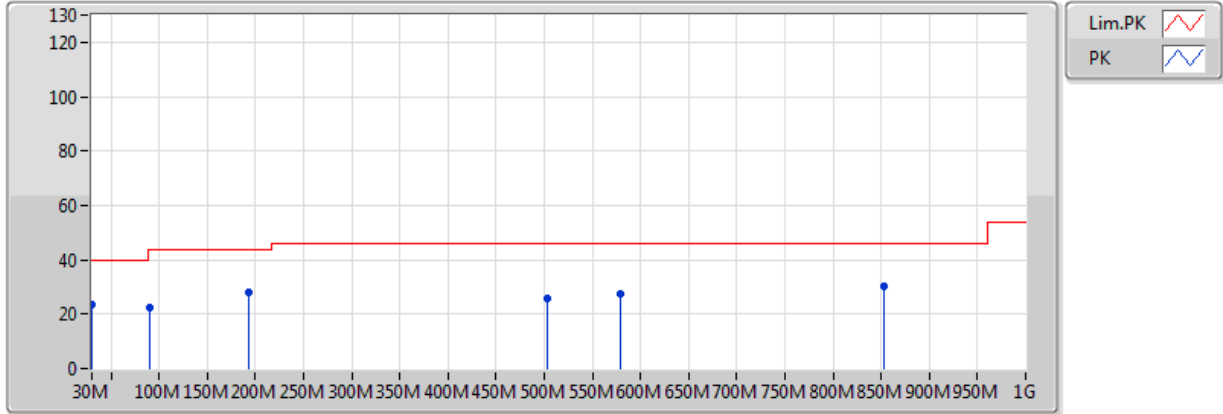


EUT : X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	47.46M	23.99	40.00	-16.01	-12.57	3	Vertical	360	1.00	-	36.56	14.06	0.97	27.60
PK	90.14M	26.16	43.50	-17.34	-12.49	3	Vertical	360	1.00	-	38.65	13.92	1.35	27.76
PK	192.96M	26.34	43.50	-17.16	-11.24	3	Vertical	360	1.00	-	37.58	14.19	2.04	27.47
PK	322.94M	23.82	46.00	-22.18	-6.11	3	Vertical	360	1.00	-	29.93	18.70	2.56	27.37
PK	571.26M	27.65	46.00	-18.35	-1.16	3	Vertical	360	1.00	-	28.81	23.76	3.62	28.54
PK	862.26M	31.11	46.00	-14.89	2.34	3	Vertical	360	1.00	-	28.77	25.31	4.84	27.81

BT-LE(1Mbps)

2440MHz_USB



EUT : X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	23.63	40.00	-16.37	-5.15	3	Horizontal	0	1.00	-	28.78	22.02	0.68	27.85
PK	90.14M	22.31	43.50	-21.19	-12.49	3	Horizontal	0	1.00	-	34.80	13.92	1.35	27.76
PK	192.96M	27.81	43.50	-15.69	-11.24	3	Horizontal	0	1.00	-	39.05	14.19	2.04	27.47
PK	503.36M	25.59	46.00	-20.41	-2.46	3	Horizontal	0	1.00	-	28.05	22.63	3.40	28.49
PK	579.02M	27.37	46.00	-18.63	-1.18	3	Horizontal	0	1.00	-	28.55	23.73	3.64	28.55
PK	852.56M	30.50	46.00	-15.50	2.16	3	Horizontal	0	1.00	-	28.34	25.26	4.75	27.85



Summary

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)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.4836G	47.99	54.00	-6.01	31.78	3	Vertical	206	1.49	-

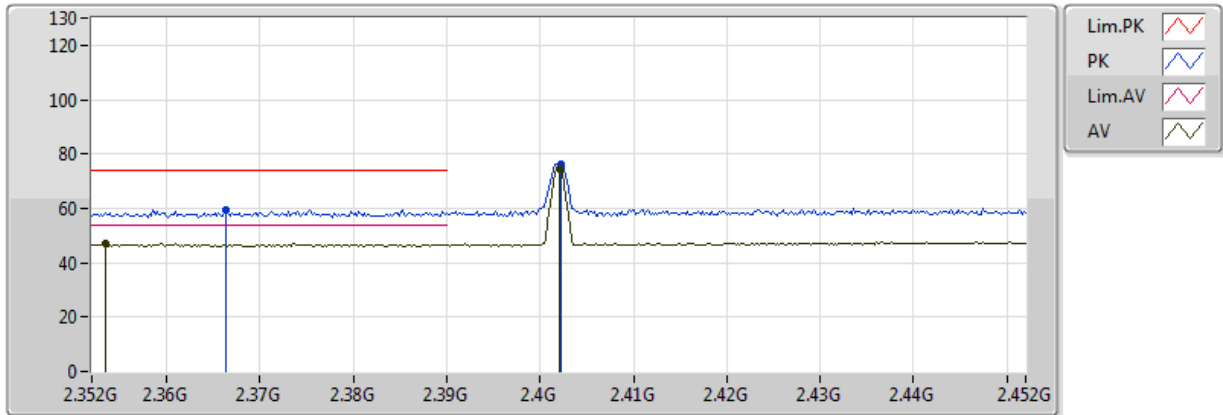


Result

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	Pass	AV	2.3722G	47.04	54.00	-6.96	31.38	3	Horizontal	7	1.09	-
2402MHz	Pass	AV	2.402G	72.89	Inf	-Inf	31.49	3	Horizontal	7	1.09	-
2402MHz	Pass	PK	2.3558G	59.80	74.00	-14.20	31.33	3	Horizontal	7	1.09	-
2402MHz	Pass	PK	2.4022G	74.72	Inf	-Inf	31.49	3	Horizontal	7	1.09	-
2402MHz	Pass	AV	2.3534G	46.96	54.00	-7.04	31.32	3	Vertical	206	1.41	-
2402MHz	Pass	AV	2.402G	74.71	Inf	-Inf	31.49	3	Vertical	206	1.41	-
2402MHz	Pass	PK	2.3664G	59.59	74.00	-14.41	31.36	3	Vertical	206	1.41	-
2402MHz	Pass	PK	2.4022G	76.47	Inf	-Inf	31.49	3	Vertical	206	1.41	-
2402MHz	Pass	AV	4.804G	32.69	54.00	-21.31	6.43	3	Horizontal	339	2.43	-
2402MHz	Pass	PK	4.804G	46.56	74.00	-27.44	6.43	3	Horizontal	339	2.43	-
2402MHz	Pass	AV	4.804G	31.81	54.00	-22.19	6.43	3	Vertical	325	1.50	-
2402MHz	Pass	PK	4.804G	45.80	74.00	-28.20	6.43	3	Vertical	325	1.50	-
2440MHz	Pass	AV	2.3512G	47.16	54.00	-6.84	31.31	3	Horizontal	3	1.08	-
2440MHz	Pass	AV	2.44G	73.53	Inf	-Inf	31.62	3	Horizontal	3	1.08	-
2440MHz	Pass	AV	2.4932G	47.79	54.00	-6.21	31.82	3	Horizontal	3	1.08	-
2440MHz	Pass	PK	2.3612G	59.57	74.00	-14.43	31.34	3	Horizontal	3	1.08	-
2440MHz	Pass	PK	2.44G	75.41	Inf	-Inf	31.62	3	Horizontal	3	1.08	-
2440MHz	Pass	PK	2.498G	59.74	74.00	-14.26	31.83	3	Horizontal	3	1.08	-
2440MHz	Pass	AV	2.3488G	47.17	54.00	-6.83	31.30	3	Vertical	206	1.49	-
2440MHz	Pass	AV	2.44G	75.02	Inf	-Inf	31.62	3	Vertical	206	1.49	-
2440MHz	Pass	AV	2.4836G	47.99	54.00	-6.01	31.78	3	Vertical	206	1.49	-
2440MHz	Pass	PK	2.3672G	59.21	74.00	-14.79	31.37	3	Vertical	206	1.49	-
2440MHz	Pass	PK	2.44G	76.73	Inf	-Inf	31.62	3	Vertical	206	1.49	-
2440MHz	Pass	PK	2.4984G	59.94	74.00	-14.06	31.83	3	Vertical	206	1.49	-
2440MHz	Pass	AV	4.88G	34.15	54.00	-19.85	6.62	3	Horizontal	5	2.60	-
2440MHz	Pass	PK	4.88G	47.23	74.00	-26.77	6.62	3	Horizontal	5	2.60	-
2440MHz	Pass	AV	4.88G	32.41	54.00	-21.59	6.62	3	Vertical	305	1.01	-
2440MHz	Pass	PK	4.88G	45.78	74.00	-28.22	6.62	3	Vertical	305	1.01	-
2480MHz	Pass	AV	2.48G	75.75	Inf	-Inf	31.77	3	Horizontal	0	1.45	-
2480MHz	Pass	AV	2.4874G	47.82	54.00	-6.18	31.79	3	Horizontal	0	1.45	-
2480MHz	Pass	PK	2.4798G	77.53	Inf	-Inf	31.77	3	Horizontal	0	1.45	-
2480MHz	Pass	PK	2.4924G	60.62	74.00	-13.38	31.81	3	Horizontal	0	1.45	-
2480MHz	Pass	AV	2.48G	77.03	Inf	-Inf	31.77	3	Vertical	203	1.16	-
2480MHz	Pass	AV	2.4994G	47.75	54.00	-6.25	31.84	3	Vertical	203	1.16	-
2480MHz	Pass	PK	2.4802G	78.67	Inf	-Inf	31.77	3	Vertical	203	1.16	-
2480MHz	Pass	PK	2.4836G	60.06	74.00	-13.94	31.78	3	Vertical	203	1.16	-
2480MHz	Pass	AV	4.96G	37.35	54.00	-16.65	6.82	3	Horizontal	358	1.04	-
2480MHz	Pass	PK	4.96G	48.86	74.00	-25.14	6.82	3	Horizontal	358	1.04	-
2480MHz	Pass	AV	4.96G	34.80	54.00	-19.20	6.82	3	Vertical	323	1.02	-
2480MHz	Pass	PK	4.96G	47.94	74.00	-26.06	6.82	3	Vertical	323	1.02	-

BT-LE(1Mbps)

2402MHz_TX

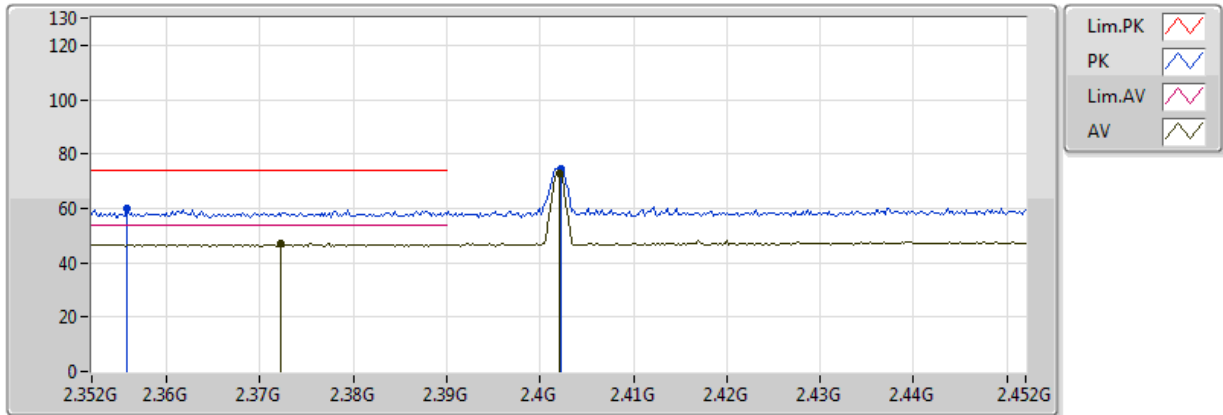


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3534G	46.96	54.00	-7.04	31.32	3	Vertical	206	1.41	-	15.65	27.12	4.20	-
AV	2.402G	74.71	Inf	-Inf	31.49	3	Vertical	206	1.41	-	43.22	27.25	4.24	-
PK	2.3664G	59.59	74.00	-14.41	31.36	3	Vertical	206	1.41	-	28.23	27.15	4.21	-
PK	2.4022G	76.47	Inf	-Inf	31.49	3	Vertical	206	1.41	-	44.99	27.25	4.24	-

BT-LE(1Mbps)

2402MHz_TX

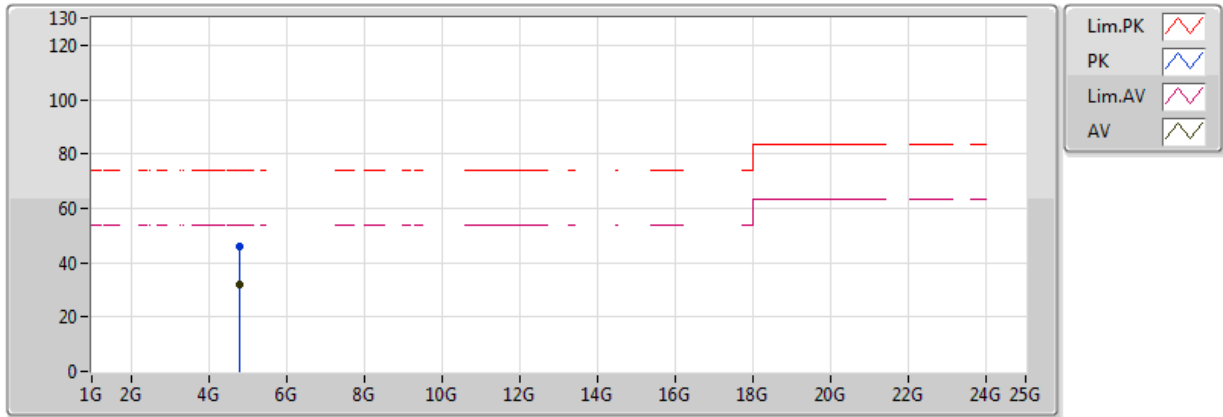


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3722G	47.04	54.00	-6.96	31.38	3	Horizontal	7	1.09	-	15.66	27.17	4.21	-
AV	2.402G	72.89	Inf	-Inf	31.49	3	Horizontal	7	1.09	-	41.40	27.25	4.24	-
PK	2.3558G	59.80	74.00	-14.20	31.33	3	Horizontal	7	1.09	-	28.48	27.13	4.20	-
PK	2.4022G	74.72	Inf	-Inf	31.49	3	Horizontal	7	1.09	-	43.23	27.25	4.24	-

BT-LE(1Mbps)

2402MHz_TX

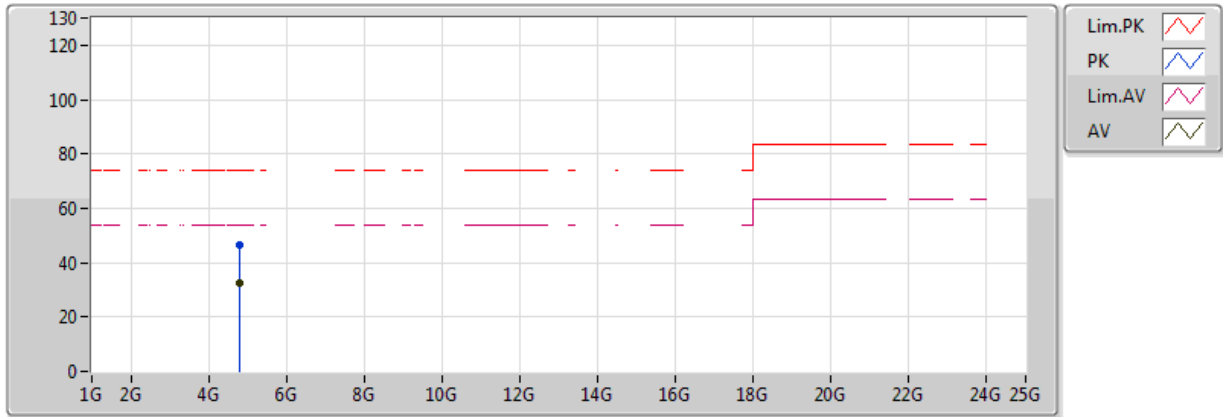


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.804G	31.81	54.00	-22.19	6.43	3	Vertical	325	1.50	-	25.38	31.19	5.35	30.11
PK	4.804G	45.80	74.00	-28.20	6.43	3	Vertical	325	1.50	-	39.37	31.19	5.35	30.11

BT-LE(1Mbps)

2402MHz_TX

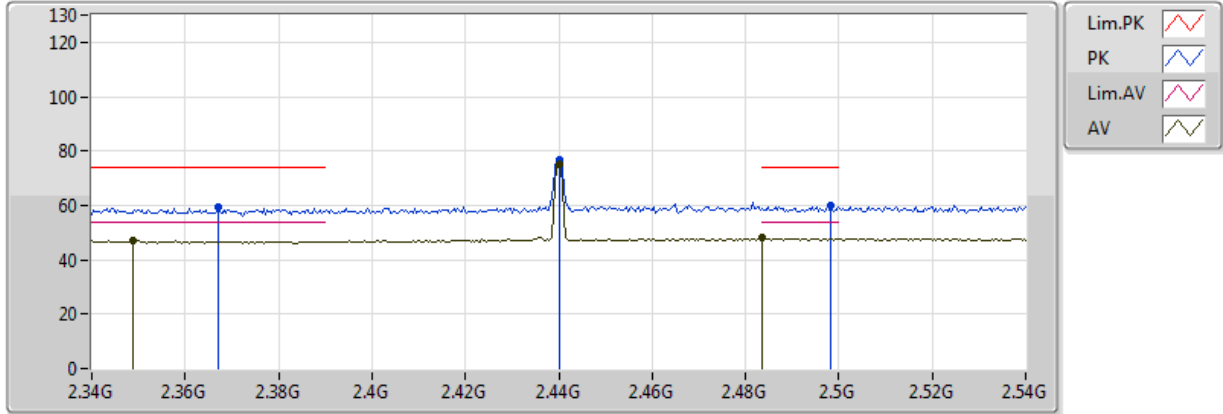


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.804G	32.69	54.00	-21.31	6.43	3	Horizontal	339	2.43	-	26.26	31.19	5.35	30.11
PK	4.804G	46.56	74.00	-27.44	6.43	3	Horizontal	339	2.43	-	40.13	31.19	5.35	30.11

BT-LE(1Mbps)

2440MHz_TX

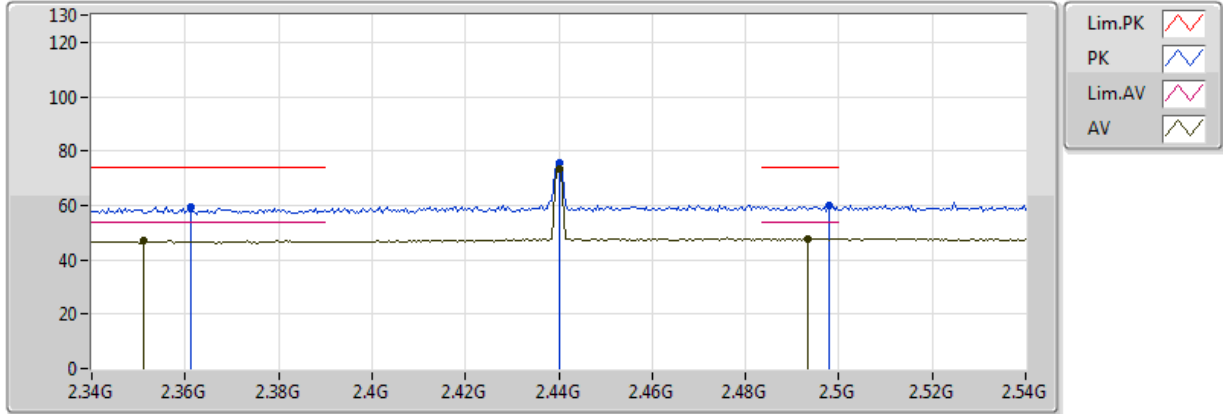


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3488G	47.17	54.00	-6.83	31.30	3	Vertical	206	1.49	-	15.87	27.11	4.19	-
AV	2.44G	75.02	Inf	-Inf	31.62	3	Vertical	206	1.49	-	43.40	27.34	4.28	-
AV	2.4836G	47.99	54.00	-6.01	31.78	3	Vertical	206	1.49	-	16.21	27.46	4.32	-
PK	2.3672G	59.21	74.00	-14.79	31.37	3	Vertical	206	1.49	-	27.85	27.15	4.21	-
PK	2.44G	76.73	Inf	-Inf	31.62	3	Vertical	206	1.49	-	45.11	27.34	4.28	-
PK	2.4984G	59.94	74.00	-14.06	31.83	3	Vertical	206	1.49	-	28.11	27.50	4.34	-

BT-LE(1Mbps)

2440MHz_TX

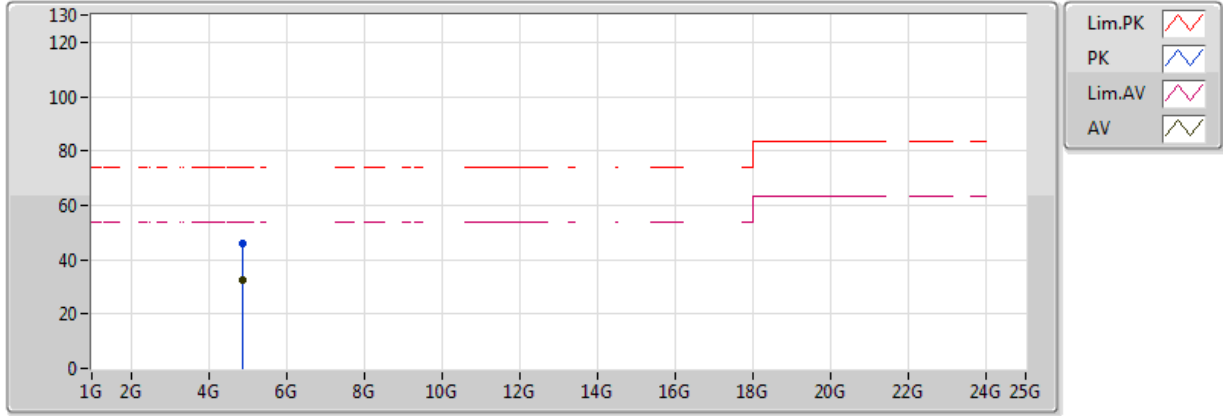


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3512G	47.16	54.00	-6.84	31.31	3	Horizontal	3	1.08	-	15.85	27.11	4.20	-
AV	2.44G	73.53	Inf	-Inf	31.62	3	Horizontal	3	1.08	-	41.91	27.34	4.28	-
AV	2.4932G	47.79	54.00	-6.21	31.82	3	Horizontal	3	1.08	-	15.98	27.48	4.33	-
PK	2.3612G	59.57	74.00	-14.43	31.34	3	Horizontal	3	1.08	-	28.22	27.14	4.21	-
PK	2.44G	75.41	Inf	-Inf	31.62	3	Horizontal	3	1.08	-	43.79	27.34	4.28	-
PK	2.498G	59.74	74.00	-14.26	31.83	3	Horizontal	3	1.08	-	27.91	27.49	4.34	-

BT-LE(1Mbps)

2440MHz_TX

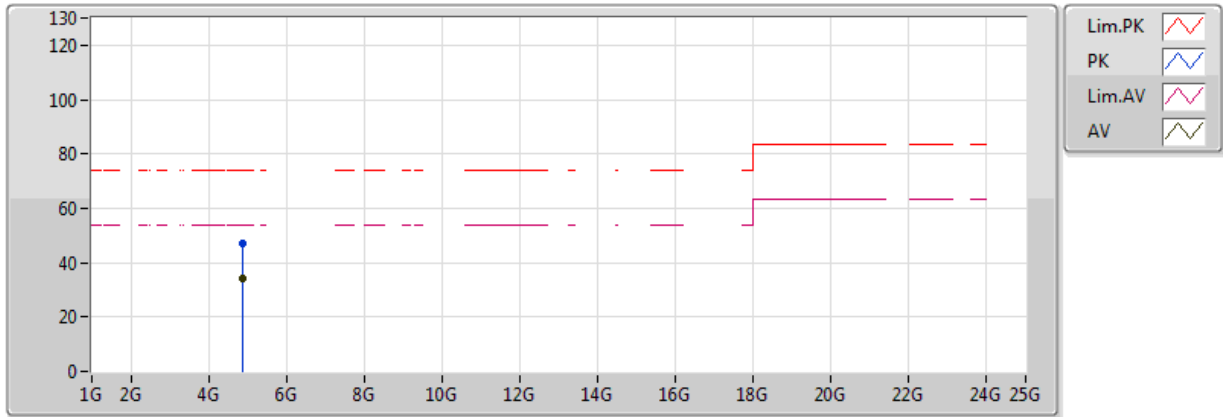


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88G	32.41	54.00	-21.59	6.62	3	Vertical	305	1.01	-	25.79	31.31	5.41	30.09
PK	4.88G	45.78	74.00	-28.22	6.62	3	Vertical	305	1.01	-	39.16	31.31	5.41	30.09

BT-LE(1Mbps)

2440MHz_TX

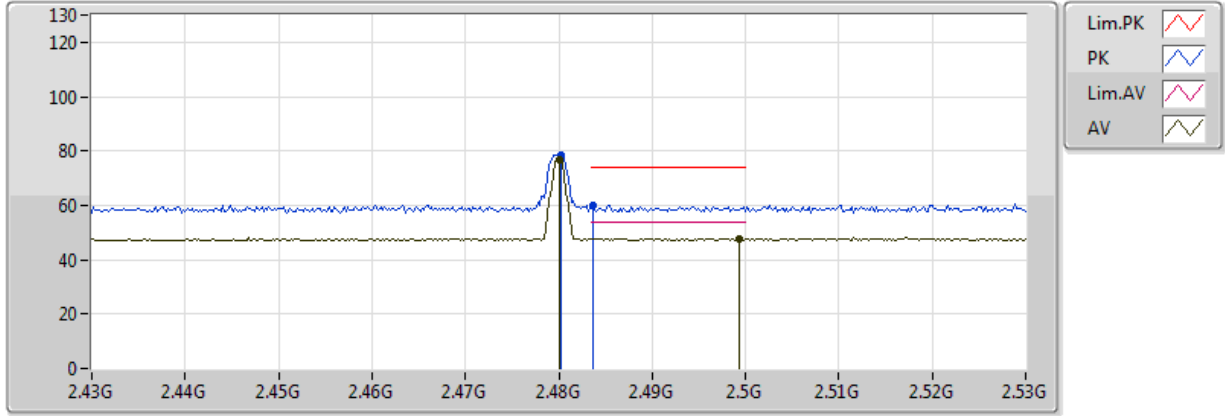


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88G	34.15	54.00	-19.85	6.62	3	Horizontal	5	2.60	-	27.53	31.31	5.41	30.09
PK	4.88G	47.23	74.00	-26.77	6.62	3	Horizontal	5	2.60	-	40.61	31.31	5.41	30.09

BT-LE(1Mbps)

2480MHz_TX

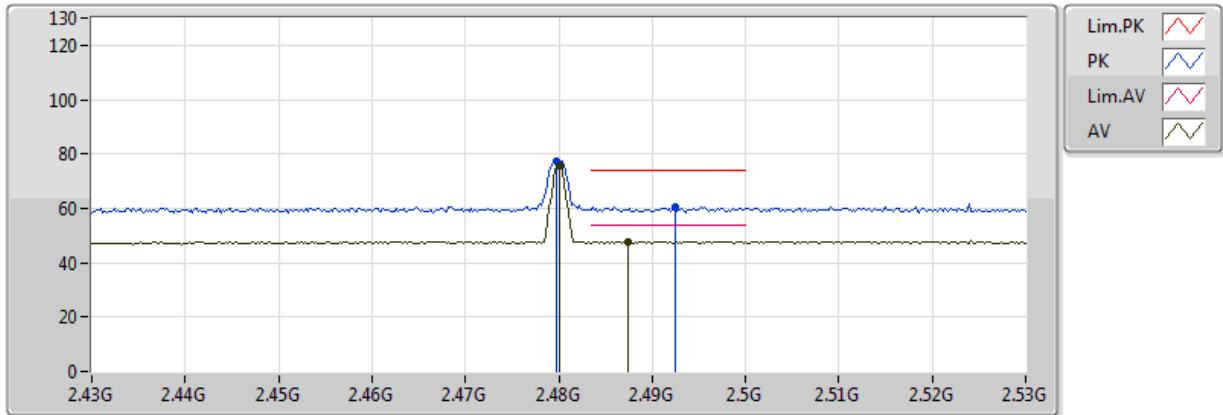


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	77.03	Inf	-Inf	31.77	3	Vertical	203	1.16	-	45.27	27.45	4.32	-
AV	2.4994G	47.75	54.00	-6.25	31.84	3	Vertical	203	1.16	-	15.91	27.50	4.34	-
PK	2.4802G	78.67	Inf	-Inf	31.77	3	Vertical	203	1.16	-	46.90	27.45	4.32	-
PK	2.4836G	60.06	74.00	-13.94	31.78	3	Vertical	203	1.16	-	28.28	27.46	4.32	-

BT-LE(1Mbps)

2480MHz_TX

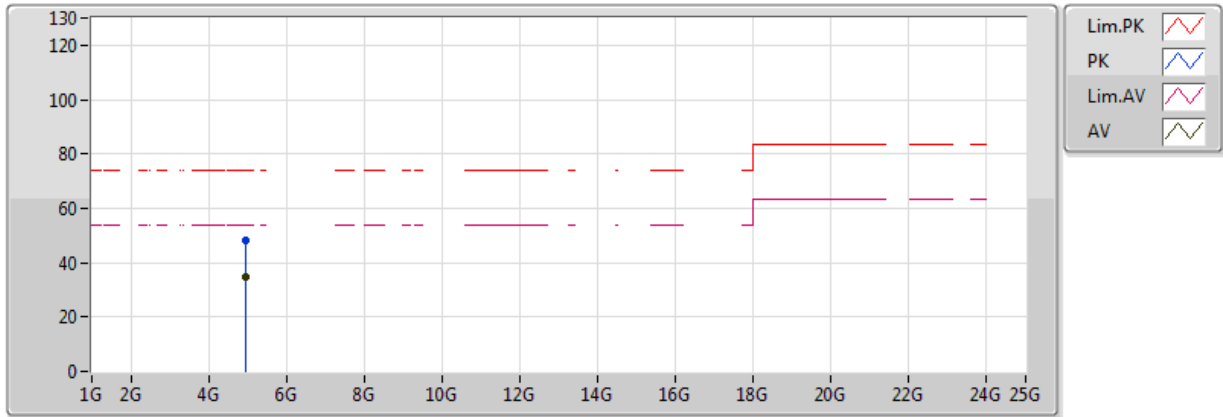


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	75.75	Inf	-Inf	31.77	3	Horizontal	0	1.45	-	43.98	27.45	4.32	-
AV	2.4874G	47.82	54.00	-6.18	31.79	3	Horizontal	0	1.45	-	16.02	27.47	4.33	-
PK	2.4798G	77.53	Inf	-Inf	31.77	3	Horizontal	0	1.45	-	45.76	27.45	4.32	-
PK	2.4924G	60.62	74.00	-13.38	31.81	3	Horizontal	0	1.45	-	28.80	27.48	4.33	-

BT-LE(1Mbps)

2480MHz_TX

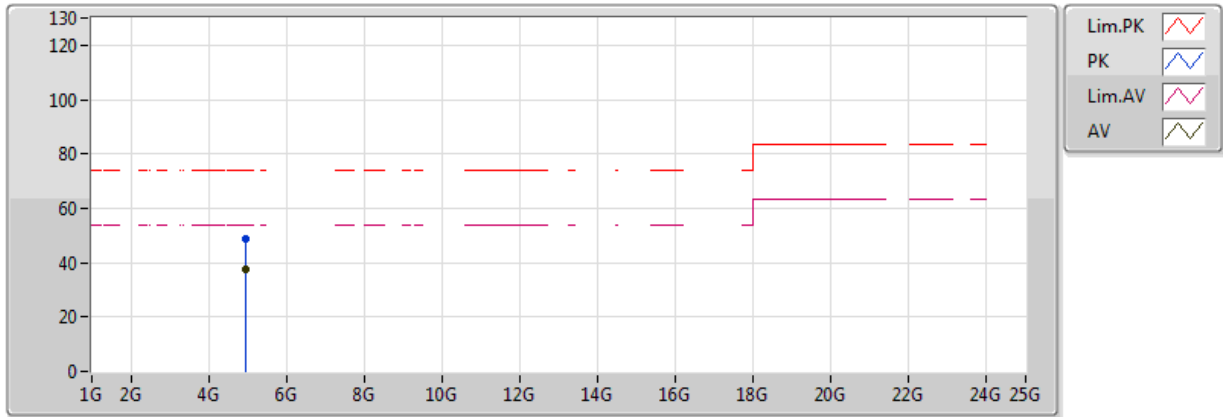


EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96G	34.80	54.00	-19.20	6.82	3	Vertical	323	1.02	-	27.98	31.44	5.46	30.08
PK	4.96G	47.94	74.00	-26.06	6.82	3	Vertical	323	1.02	-	41.12	31.44	5.46	30.08

BT-LE(1Mbps)

2480MHz_TX



EUT: X

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96G	37.35	54.00	-16.65	6.82	3	Horizontal	358	1.04	-	30.53	31.44	5.46	30.08
PK	4.96G	48.86	74.00	-25.14	6.82	3	Horizontal	358	1.04	-	42.04	31.44	5.46	30.08