FCC Test Report

Equipment	:	**IP Wireless Camera**
Brand Name	:	**FLIR SECURE、LOREX SECURE**
Model No.	:	**Fxx2xxx (x= 0-9, A-Z)、FXCx2xxx (x= 0-9, A-Z)**
FCC ID	:	**UCZFXC22**
Standard	:	**47 CFR FCC Part 15.247**
Frequency	:	**2400 MHz – 2483.5 MHz**
Function	:	**☒Point-to-multipoint; ☐Point-to-point**
Applicant	:	**Lorex Technology Inc 250 Royal Crest Court, Markham, Ontario, L3R 3S1, Canada**
Manufacturer	:	**Chicony Electronics (Dong Guan) Co.,Ltd. San Zhong Guan Li Qu, Qingxi Town, Dongguan City Guangdong 523651 China**

The product sample received on Apr. 14, 2016 and completely tested on May 09, 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 INTERNATIONALINC., the test report shall not be reproduced except in full.

Phoenix Chen
SPORTON INTERNATIONAL INC.

Testing Laboratory
1190

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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
FR640901-03AL	Rev. 01	Initial issue of report	Jun. 15, 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	1TX

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	FX_C	PIFA Antenna	fixed on board	0.61

1.1.3 EUT Information

Operational Condition		
EUT Power Type	From AC Adapter / Host System	
Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	0.626	2.034	391.25u	3k

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR640901-02AL

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Power was increased 2. FW Version was changed 3. Model name and brand name were added	All test items other than AC power-line conducted emissions were re-tested

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					
☒	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. 553509 with FCC.					
☐	JHUBEI	ADD :	No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)		
		TEL :	886-3-656-9065	FAX :	886-3-656-9085
Test site Designation No. TW0006 with FCC.					

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Ryan Hong	23°C / 56%	17/May/2016
Radiated	03CH09-HY	Jeff	24.2°C / 58%	05/May/2017
RF Conducted	TH01-HY	Gary	21.5°C / 61%	09/May/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	110V

2.2 Test Channel Mode

Test Software	DoS

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	Adapter Mode
2	USB Mode
Mode 1 configuration was pretested to be the worst case for EMI and measured during the test.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

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

2.4 Accessories

Specification of Accessory				
AC Adapter 1	Brand Name	SPPS	Model Name	SC/10WA050200US
	Power Rating	I/P:100 - 240 Vac, 0.5 A, O/P: 5 Vdc, 2 A		
AC Adapter 2	Brand Name	I.T.E	Model Name	YJC010W-0502000U
	Power Rating	I/P:100 - 240 Vac, 0.5 A, O/P: 5 Vdc, 2 A		
USB Cable	Signal Line	2.7 meter, shielded cable, w/o ferrite core		

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

2.5 Support Equipment

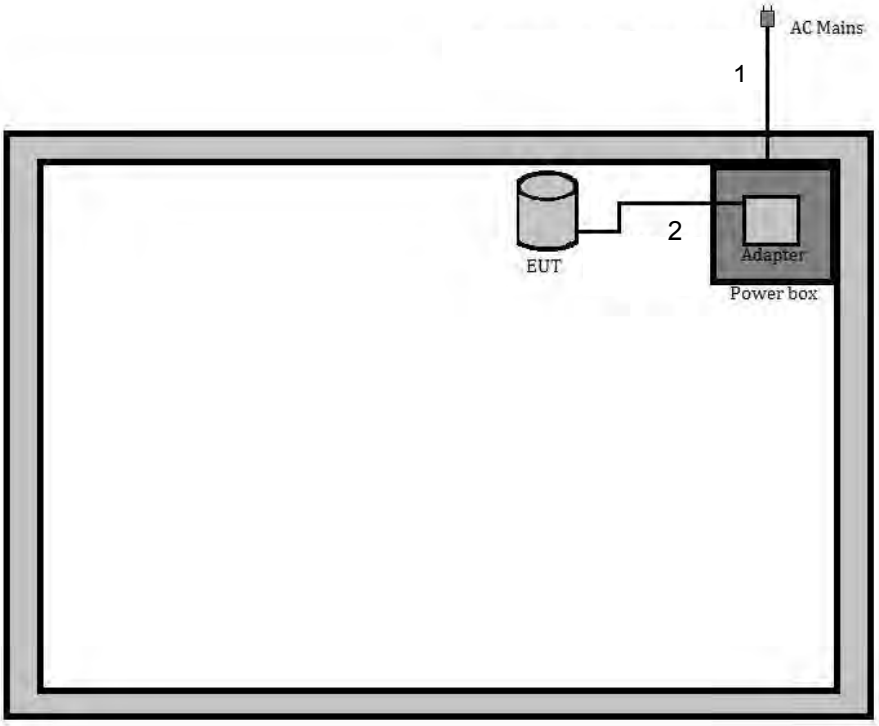
Support Equipment- Conduction				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Notebook	DELL	E5530	DoC
2	AC adapter for NB	DELL	LA65NS2-01	DoC

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

Support Equipment – Radiated Emission				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Notebook	DELL	E6400	DoC
2	Adapter for NB	DELL	LA65NS2-01	DoC

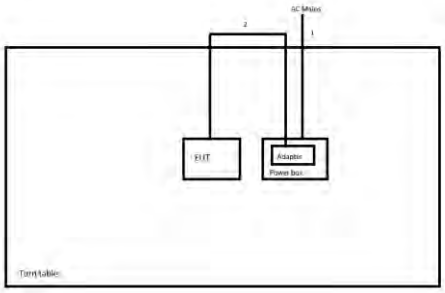
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



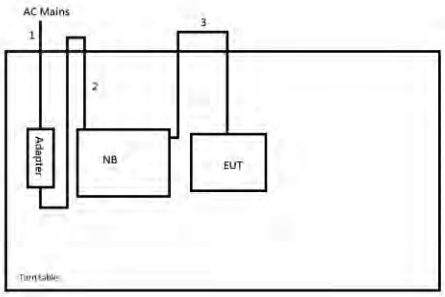
Item	Connection	Shielded	Length
1	AC Power line	No	1.8m
2	USB Cable	No	2.7m

Test Setup Diagram - Radiated Test (Mode 1)



Item	Connection	Shielded	Length
1	AC Power line	No	1.8m
2	USB Cable	No	2.7m

Test Setup Diagram - Radiated Test (Mode 2)



Item	Connection	Shielded	Length
1	AC Power line	No	1.8m
2	DC Power line	No	1.8m
3	USB Cable	No	2.7m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

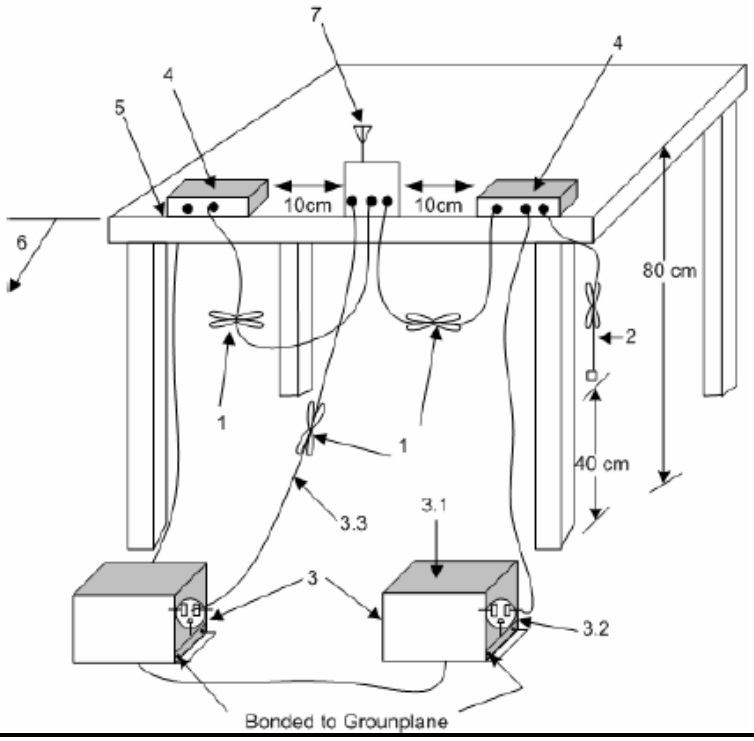
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



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:
▪ 6 dB bandwidth ≥ 500 kHz.

3.2.2 Measuring Instruments

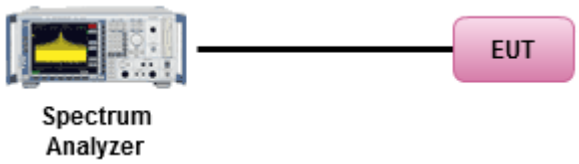
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
	☐ Refer as KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
	☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit		
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)	
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)$ dBm	
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm	
	▪ Smart antenna system (SAS):	
		- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
		- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
		- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3 + 8$dB dBm
e.i.r.p. Power Limit:		
▪ 2400-2483.5 MHz Band		
	▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)	
	▪ Point-to-point systems (P2P): $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX}])$ dBm	
	▪ Smart antenna system (SAS)	
		- Single beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm
		- Overlap beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm
		- Aggregate power on all beams: $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.		

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
	☐ Refer as KDB 558074, clause 9.1.2 Option 2 (integrated band power method)
	☐ Refer as KDB 558074, clause 9.1.3 Option 3 (peak power meter for VBW ≥ DTS BW)
▪ Maximum Average Conducted Output Power	
	Duty cycle ≥ 98%
	☐ Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
	Duty cycle < 98%
	☐ 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
	☒ Refer as KDB 558074, clause 9.2.3.1 Method AVGPM (using an RF average power meter).
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)

3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD)≤8 dBm/3kHz

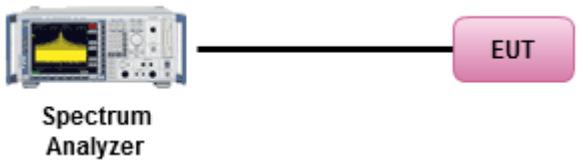
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method			
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).			
	☒ Refer as KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).		
▪ For conducted measurement.			
	▪ If The EUT supports multiple transmit chains using options given below:		
		☐	Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup

Power Spectral Density


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

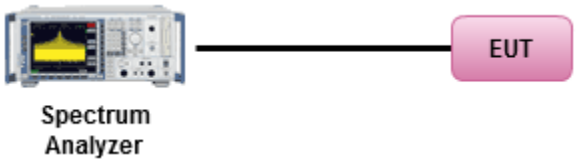
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
▪ Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands



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 below30 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.

3.6.2 Measuring Instruments

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

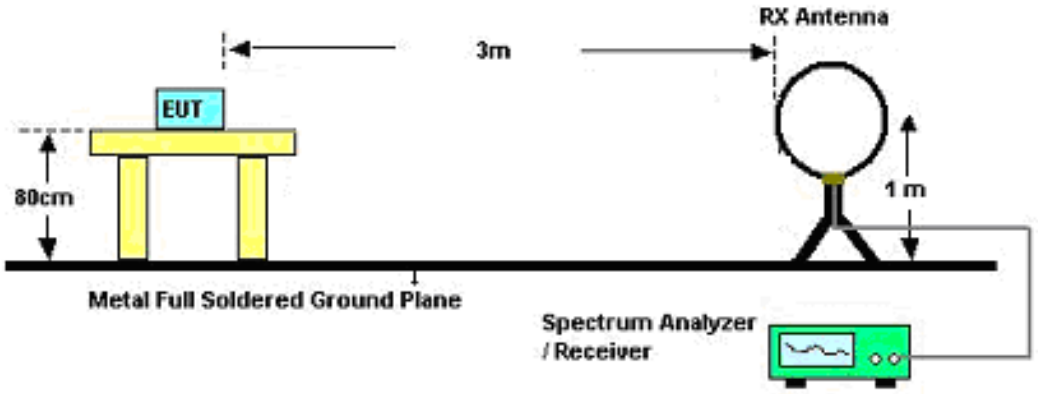
3.6.3 Test Procedures

Test Method		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.		
▪ For the transmitter unwanted emissions shall be measured using following options below:		
	▪ Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands.	
		☒ Refer as KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW≥1/T.
		☒ Refer as KDB 558074, clause 12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:		
	▪ 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.	
	▪ Refer as KDB 558074, clause 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.	
	▪ 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).	
▪ For conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2.		
	▪ 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	
	▪ 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.	

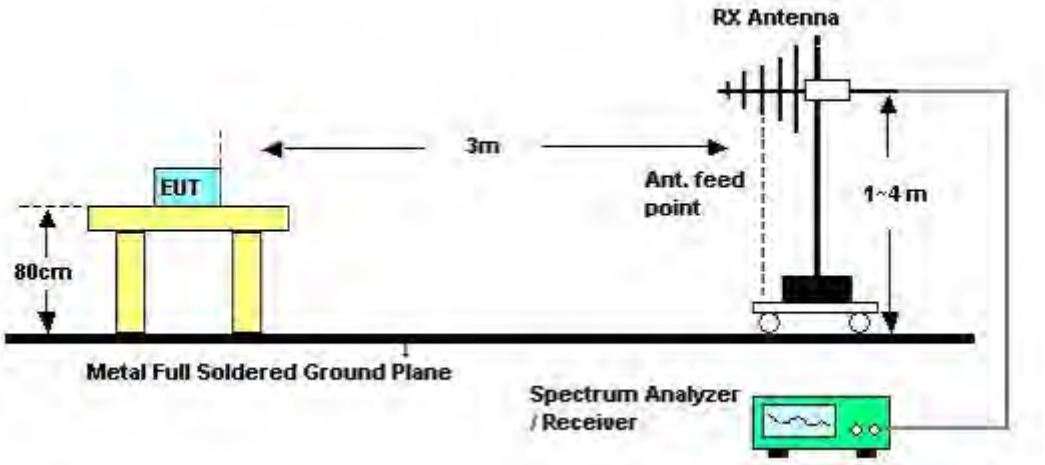
3.6.4 Test Setup

Emissions in Restricted Frequency Bands

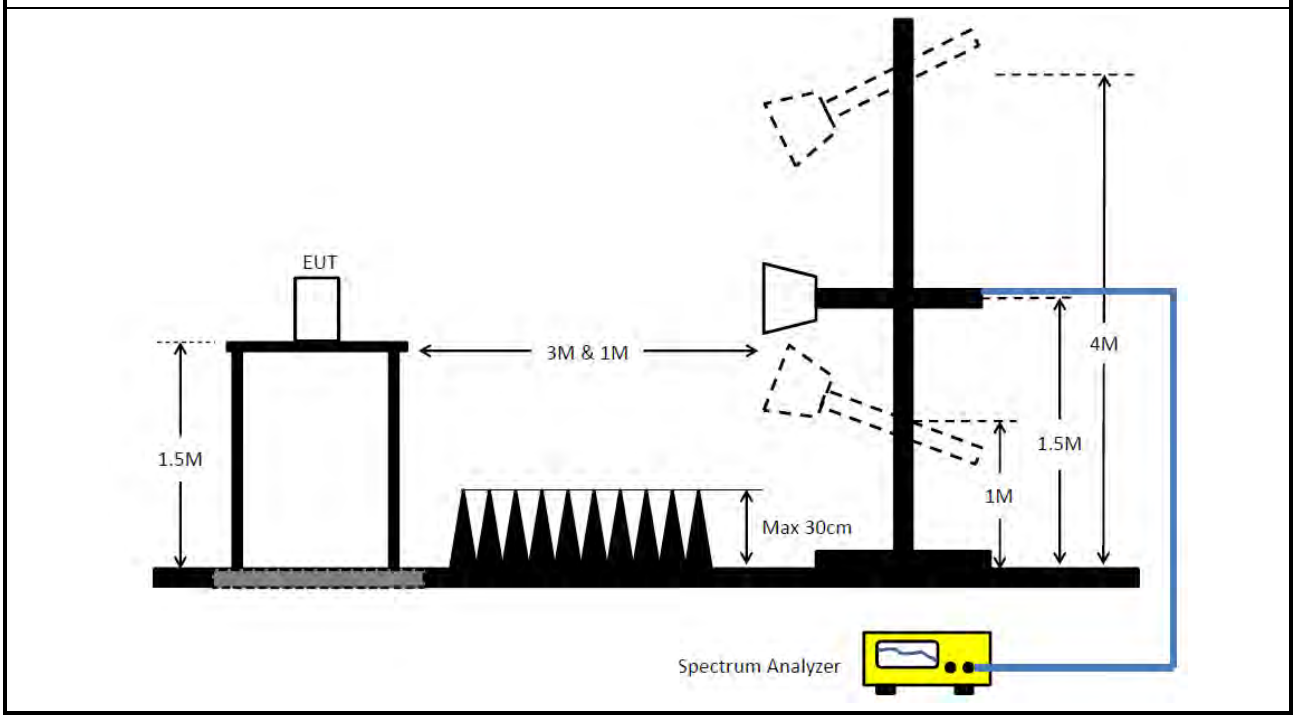
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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. All amplitude of spurious emissions that are attenuated by more than 20 dB 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	KETSIGHT	N9038A	MY54130031	20Hz~8.4GHz	14/Apr/2016	13/Apr/2017
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz~30MHz	26/Jan/2016	25/Jan/2017
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz~30MHz	30/Oct/2015	29/Oct/2016
EMI Filter	LINDGREN	LRE-2030	2651	< 450Hz	NCR	NCR

NCR : Non-Calibration Require

Instrument for Conducted Test

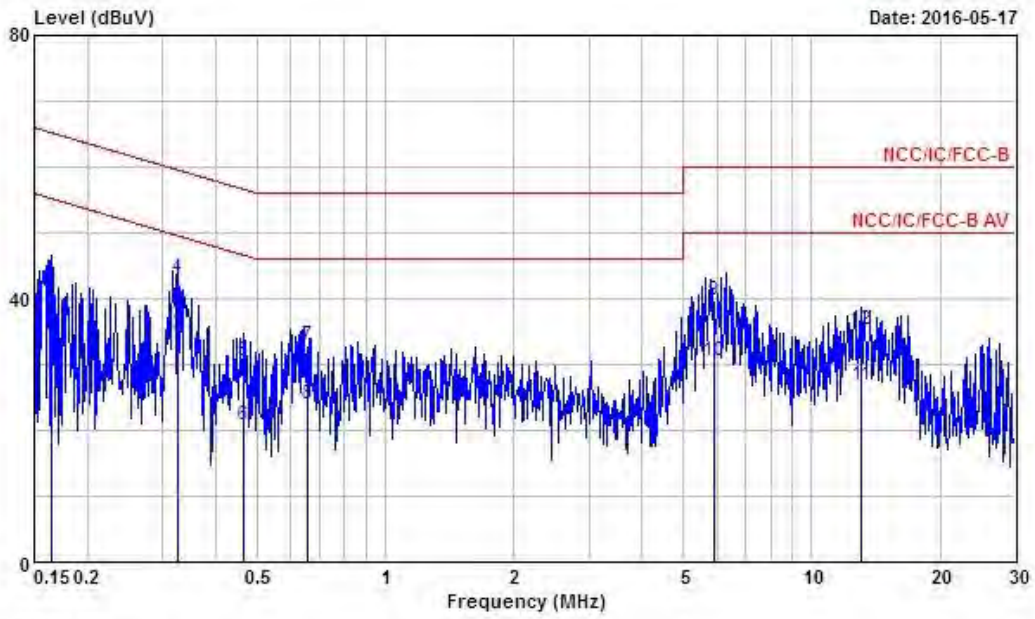
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz~26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz~26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz~26.5GHz	02/Oct/2016	01/Oct/2017
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	04/Jun/2016	03/Jun/2017

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	25/Apr/2017	24/Apr/2018
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	21/Jun/2016	20/Jun/2017
Amplifier	Agilent	8449B	3008A02364	1GHz ~ 26.5GHz	17/Nov/2016	16/Nov/2017
Amplifier	EMC	EMC9135	980209	9KHz~1GHz	05/Sep/2016	04/Sep/2017
Spectrum Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	04/Jul/2016	03/Jul/2017
Bilog Antenna	TESEQ	CBL 6111D	35418	30MHz~1GHz	01/Oct/2016	30/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170614	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
Loop Antenna	R&S	HFH2-Z2	100330	9 kHz~30 MHz	10/Nov/2016	09/Nov/2017
RF Cable-high	Jye Bao	RG142	03CH09-HY	1GHz ~ 40GHz	23/Jul/2016	22/Jul/2017
Horn Antenna	AARONIA AG	POWERLOG 70180	05192	1G~18G	05/Jan/2017	04/Jan/2018

Appendix I. Test Result of AC Power-line Conducted Emissions

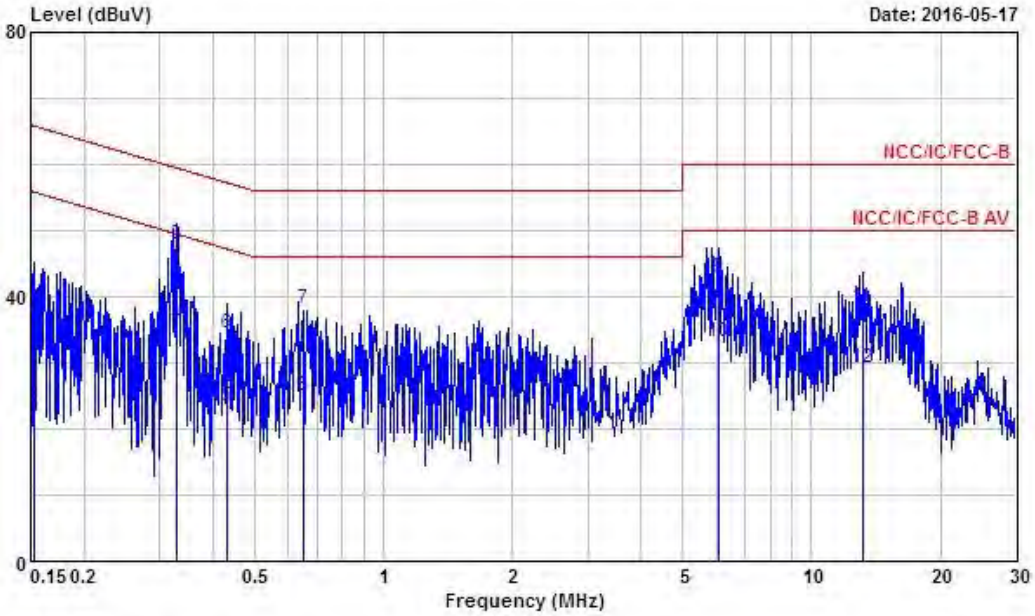
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	Adapter Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1650100	22.76	-32.45	55.21	22.41	0.10	0.25	Average
2	0.1650100	41.30	-23.91	65.21	40.95	0.10	0.25	QP
3	@0.3268460	34.53	-15.00	49.53	34.25	0.12	0.16	Average
4	0.3268460	43.06	-16.47	59.53	42.78	0.12	0.16	QP
5	0.4661350	30.65	-25.93	56.58	30.43	0.12	0.10	QP
6	0.4661350	20.75	-25.83	46.58	20.53	0.12	0.10	Average
7	0.6549040	32.78	-23.22	56.00	32.55	0.13	0.10	QP
8	0.6549040	24.06	-21.94	46.00	23.83	0.13	0.10	Average
9	5.890	39.66	-20.34	60.00	39.30	0.22	0.14	QP
10	5.890	30.53	-19.47	50.00	30.17	0.22	0.14	Average
11	13.060	26.78	-23.22	50.00	26.26	0.32	0.20	Average
12	13.060	35.20	-24.80	60.00	34.68	0.32	0.20	QP

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	Adapter Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1524030	40.67	-25.20	65.87	40.34	0.11	0.22	QP
2	0.1524030	22.50	-33.37	55.87	22.17	0.11	0.22	Average
3	@0.3303280	47.82	-11.62	59.44	47.54	0.12	0.16	QP
4	@0.3303280	35.72	-13.72	49.44	35.44	0.12	0.16	Average
5	0.4318100	23.35	-23.87	47.22	23.13	0.12	0.10	Average
6	0.4318100	34.60	-22.62	57.22	34.38	0.12	0.10	QP
7	0.6517290	38.28	-17.72	56.00	38.05	0.13	0.10	QP
8	0.6517290	25.13	-20.87	46.00	24.90	0.13	0.10	Average
9	6.060	42.79	-17.21	60.00	42.43	0.21	0.15	QP
10	6.060	33.23	-16.77	50.00	32.87	0.21	0.15	Average
11	13.130	38.50	-21.50	60.00	38.01	0.29	0.20	QP
12	13.130	29.26	-20.74	50.00	28.77	0.29	0.20	Average

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

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	712.5k	1.058M	1M06F1D	706.25k	1.054M

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;

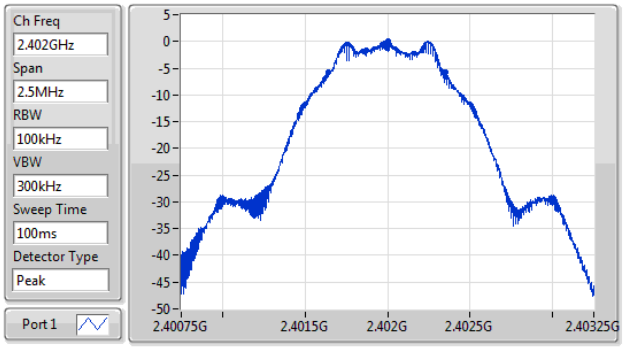
Result

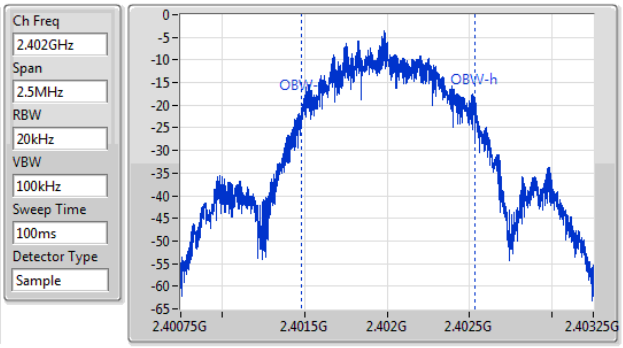
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	500k	711.25k	1.056M
2440MHz_TnomVnom	Pass	500k	712.5k	1.058M
2480MHz_TnomVnom	Pass	500k	706.25k	1.054M

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

BT-LE(1Mbps) EBW

2402MHz

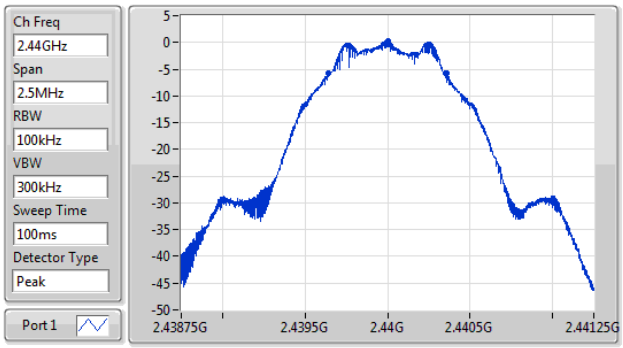


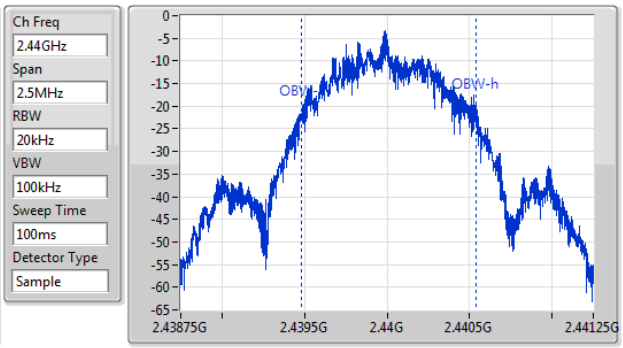


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
711.25k	2.401639G	2.40235G	1.056M	2.40148G	2.402536G	500k	1

BT-LE(1Mbps) EBW

2440MHz

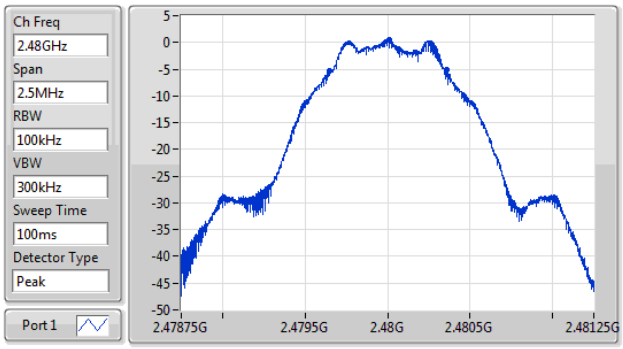


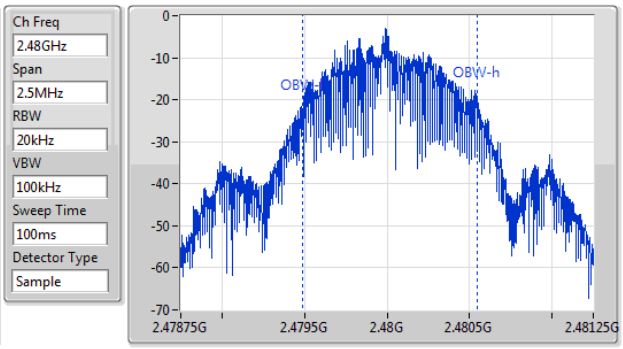


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
712.5k	2.439644G	2.440356G	1.058M	2.439479G	2.440537G	500k	1

BT-LE(1Mbps) EBW

2480MHz





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
706.25k	2.47965G	2.480356G	1.054M	2.479489G	2.480543G	500k	1

Summary

Mode	Power	Power
	(dBm)	(W)
BT-LE(1Mbps)	-	-
2.4-2.4835GHz	0.55	0.00114

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	0.61	0.19	30.00
2440MHz_TnomVnom	Pass	0.61	0.26	30.00
2480MHz_TnomVnom	Pass	0.61	0.55	30.00

Summary

Mode	PD (dBm/RBW)
BT-LE(1Mbps)	-
2.4-2.4835GHz	-13.66

RBW=3kHz.

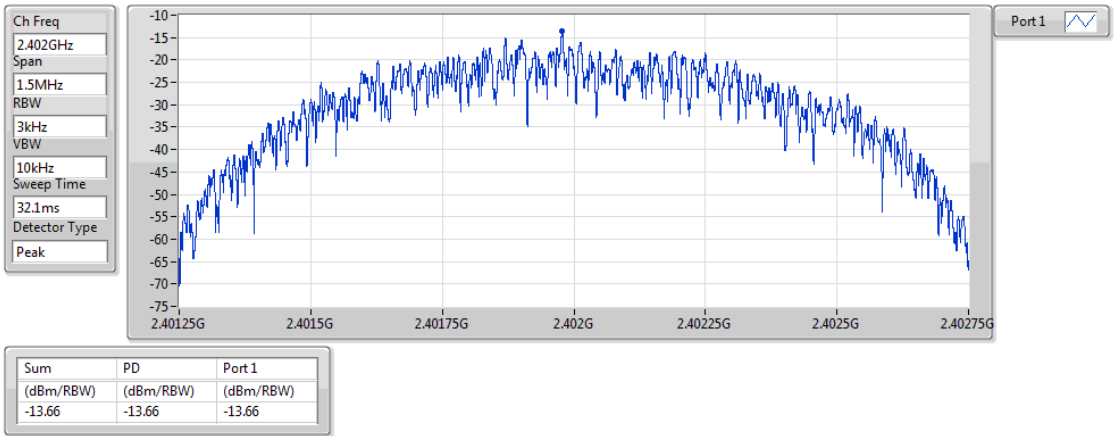
Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	0.61	-13.66	8.00
2440MHz_TnomVnom	Pass	0.61	-15.32	8.00
2480MHz_TnomVnom	Pass	0.61	-14.92	8.00

RBW=3kHz.

BT-LE(1Mbps) **PSD**

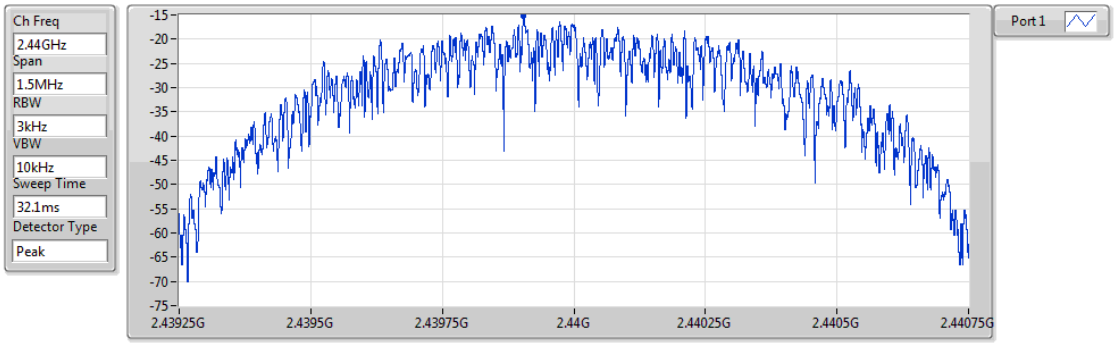
2402MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.66	-13.66	-13.66

BT-LE(1Mbps) **PSD**

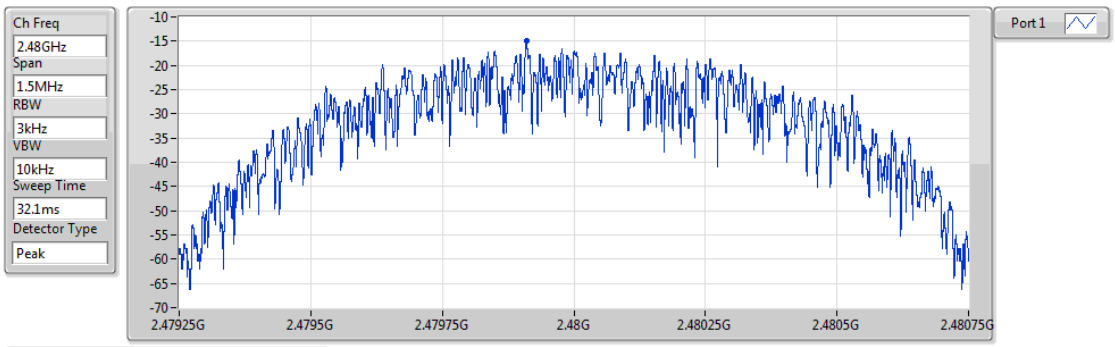
2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.32	-15.32	-15.32

BT-LE(1Mbps) **PSD**

2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.92	-14.92	-14.92

Summary

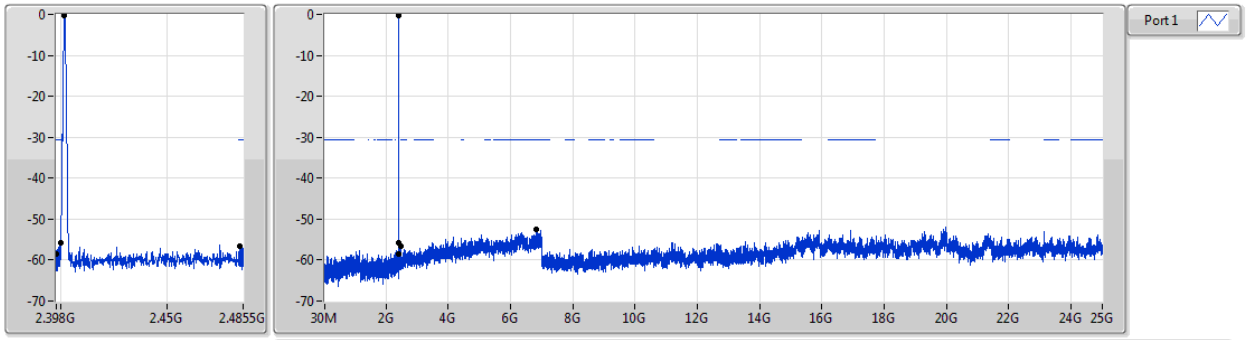
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.439913G	-1.09	-30.64	804.336M	-58.00	2.399224G	-57.13	2.484232G	-55.58	6.822356G	-51.51	1

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	2.401837G	-0.64	-30.64	2.398G	-58.52	2.399904G	-55.65	2.48374G	-56.66	6.822356G	-52.39	1
2440MHz_TnomVnom	Pass	2.439913G	-0.64	-30.64	804.336M	-58.00	2.399224G	-57.13	2.484232G	-55.58	6.822356G	-51.51	1
2480MHz_TnomVnom	Pass	2.48016G	-0.64	-30.64	2.162384G	-58.52	2.398304G	-57.27	2.485264G	-55.86	6.25105G	-52.45	1

BT-LE(1Mbps) **CSE NdB**

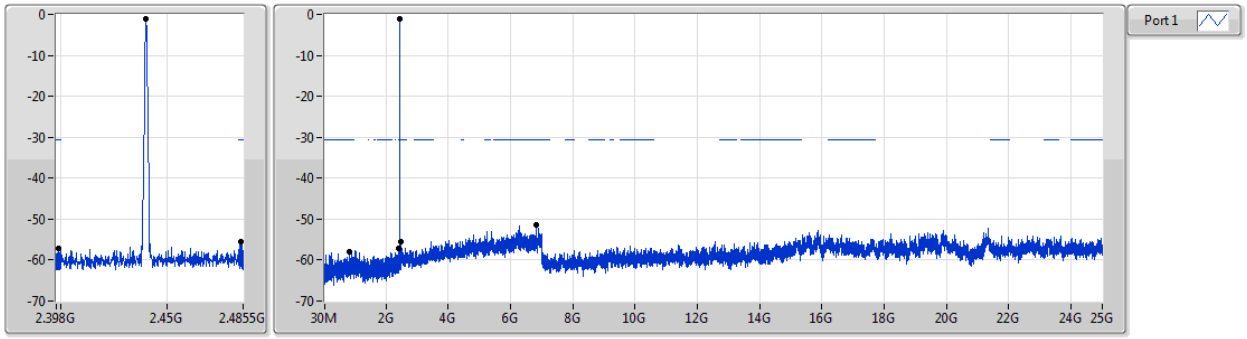
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.401837G	-0.64	-30.64	2.398G	-58.52	2.399904G	-55.65	2.48374G	-56.66	6.822356G	-52.39	1

BT-LE(1Mbps) **CSE NdB**

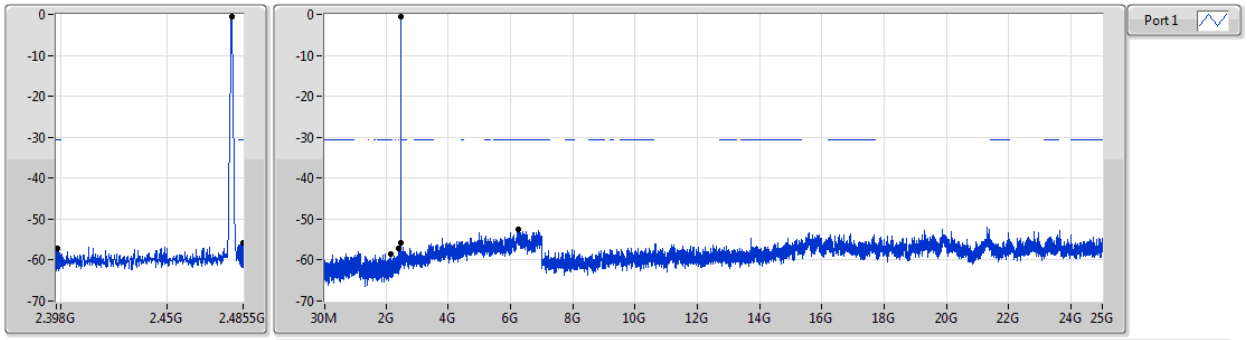
2440MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.439913G	-0.64	-30.64	804.336M	-58.00	2.399224G	-57.13	2.484232G	-55.58	6.822356G	-51.51	1

BT-LE(1Mbps) **CSE NdB**

2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.48016G	-0.64	-30.64	2.162384G	-58.52	2.398304G	-57.27	2.485264G	-55.86	6.25105G	-52.45	1

Summary

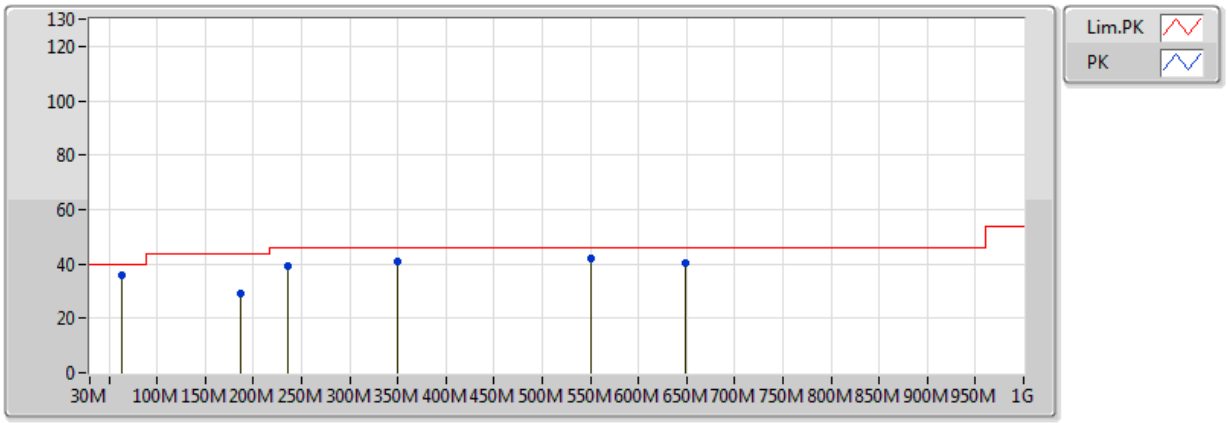
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz_Adapter	Pass	PK	299.66M	43.00	46.00	-3.00	-15.32	3	H	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter	Pass	PK	150.28M	32.23	43.50	-11.27	-18.49	3	H	360	1.00	-
2440MHz_Adapter	Pass	PK	200.72M	34.66	43.50	-8.84	-20.12	3	H	360	1.00	-
2440MHz_Adapter	Pass	PK	299.66M	43.00	46.00	-3.00	-15.32	3	H	360	1.00	-
2440MHz_Adapter	Pass	PK	549.92M	41.15	46.00	-4.85	-8.92	3	H	360	1.00	-
2440MHz_Adapter	Pass	PK	771.08M	39.30	46.00	-6.70	-5.97	3	H	360	1.00	-
2440MHz_Adapter	Pass	QP	350.1M	42.73	46.00	-3.27	-14.11	3	H	228	1.01	-
2440MHz_Adapter	Pass	PK	62.98M	35.95	40.00	-4.05	-24.93	3	V	0	1.00	-
2440MHz_Adapter	Pass	PK	187.14M	28.94	43.50	-14.56	-20.41	3	V	0	1.00	-
2440MHz_Adapter	Pass	PK	235.64M	38.95	46.00	-7.05	-18.21	3	V	0	1.00	-
2440MHz_Adapter	Pass	PK	350.1M	40.88	46.00	-5.12	-14.11	3	V	0	1.00	-
2440MHz_Adapter	Pass	PK	549.92M	42.16	46.00	-3.84	-8.92	3	V	0	1.00	-
2440MHz_Adapter	Pass	PK	648.86M	40.10	46.00	-5.90	-7.64	3	V	0	1.00	-
2440MHz_USB	Pass	PK	169.68M	35.58	43.50	-7.92	-19.72	3	H	0	1.00	-
2440MHz_USB	Pass	PK	231.76M	39.28	46.00	-6.72	-18.61	3	H	0	1.00	-
2440MHz_USB	Pass	PK	532.46M	41.96	46.00	-4.04	-9.88	3	H	0	1.00	-
2440MHz_USB	Pass	PK	771.08M	40.18	46.00	-5.82	-5.97	3	H	0	1.00	-
2440MHz_USB	Pass	QP	299.66M	42.23	46.00	-3.77	-15.32	3	H	226	1.02	-
2440MHz_USB	Pass	QP	350.1M	42.88	46.00	-3.12	-14.11	3	H	224	1.1	-
2440MHz_USB	Pass	PK	227.88M	37.85	46.00	-8.15	-19.01	3	V	360	1.00	-
2440MHz_USB	Pass	PK	237.58M	38.97	46.00	-7.03	-18.02	3	V	360	1.00	-
2440MHz_USB	Pass	PK	299.66M	36.69	46.00	-9.31	-15.32	3	V	360	1.00	-
2440MHz_USB	Pass	PK	549.92M	42.34	46.00	-3.66	-8.92	3	V	360	1.00	-
2440MHz_USB	Pass	PK	648.86M	40.85	46.00	-5.15	-7.64	3	V	360	1.00	-
2440MHz_USB	Pass	PK	771.08M	40.47	46.00	-5.53	-5.97	3	V	360	1.00	-

BT-LE(1Mbps)

2440MHz_Adapter

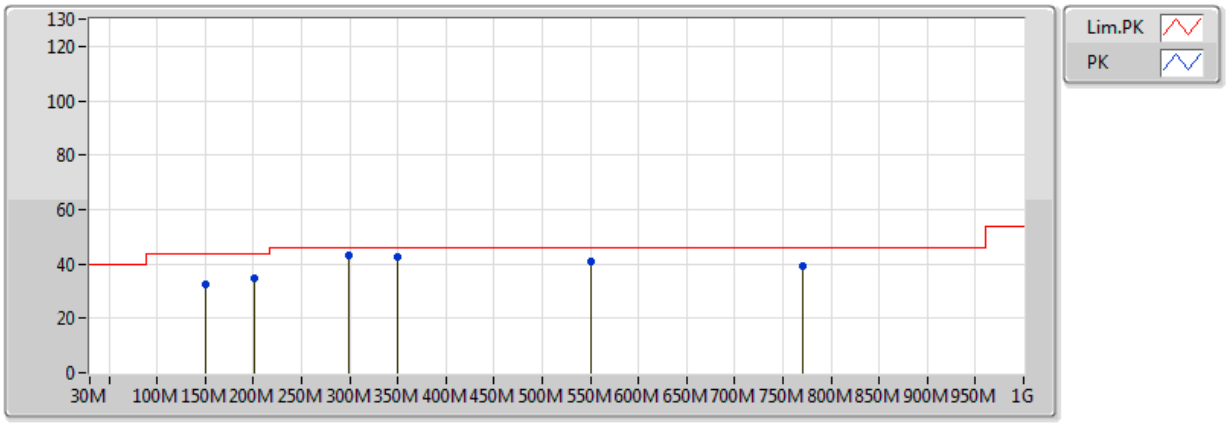


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	62.98M	35.95	40.00	-4.05	-24.93	3	V	0	1.00	-
PK	187.14M	28.94	43.50	-14.56	-20.41	3	V	0	1.00	-
PK	235.64M	38.95	46.00	-7.05	-18.21	3	V	0	1.00	-
PK	350.1M	40.88	46.00	-5.12	-14.11	3	V	0	1.00	-
PK	549.92M	42.16	46.00	-3.84	-8.92	3	V	0	1.00	-
PK	648.86M	40.10	46.00	-5.90	-7.64	3	V	0	1.00	-

BT-LE(1Mbps)

2440MHz_Adapter

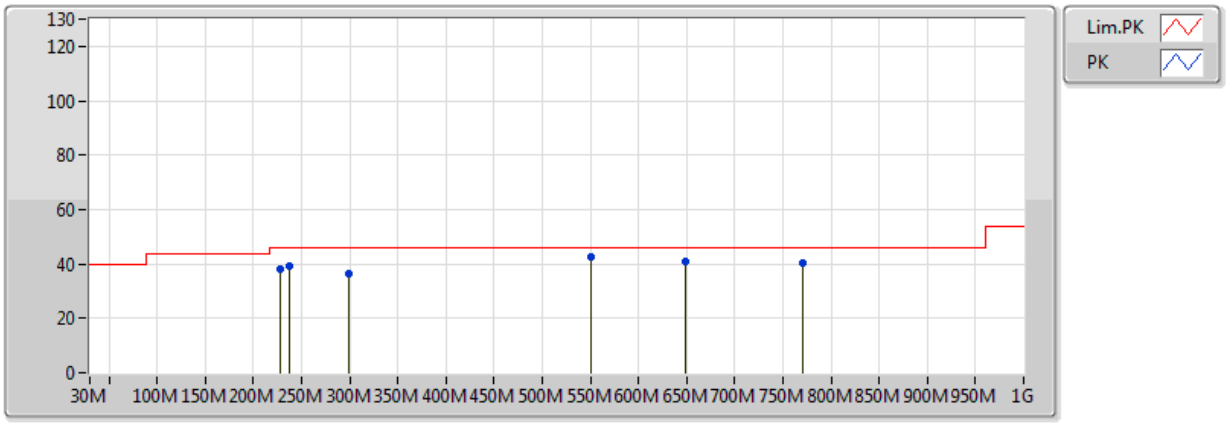


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	150.28M	32.23	43.50	-11.27	-18.49	3	H	360	1.00	-
PK	200.72M	34.66	43.50	-8.84	-20.12	3	H	360	1.00	-
PK	299.66M	43.00	46.00	-3.00	-15.32	3	H	360	1.00	-
PK	549.92M	41.15	46.00	-4.85	-8.92	3	H	360	1.00	-
PK	771.08M	39.30	46.00	-6.70	-5.97	3	H	360	1.00	-
QP	350.1M	42.73	46.00	-3.27	-14.11	3	H	228	1.01	-

BT-LE(1Mbps)

2440MHz_USB

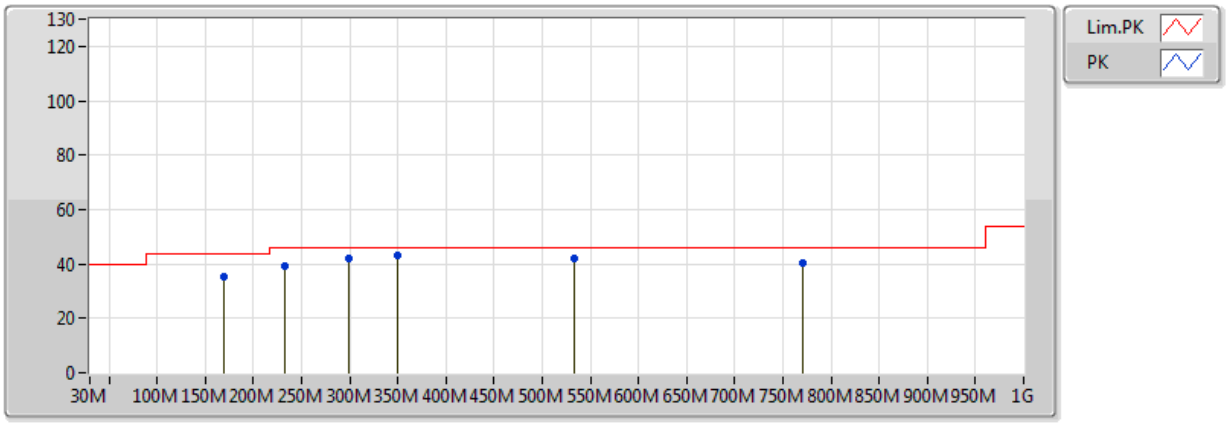


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	227.88M	37.85	46.00	-8.15	-19.01	3	V	360	1.00	-
PK	237.58M	38.97	46.00	-7.03	-18.02	3	V	360	1.00	-
PK	299.66M	36.69	46.00	-9.31	-15.32	3	V	360	1.00	-
PK	549.92M	42.34	46.00	-3.66	-8.92	3	V	360	1.00	-
PK	648.86M	40.85	46.00	-5.15	-7.64	3	V	360	1.00	-
PK	771.08M	40.47	46.00	-5.53	-5.97	3	V	360	1.00	-

BT-LE(1Mbps)

2440MHz_USB



EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	169.68M	35.58	43.50	-7.92	-19.72	3	H	0	1.00	-
PK	231.76M	39.28	46.00	-6.72	-18.61	3	H	0	1.00	-
PK	532.46M	41.96	46.00	-4.04	-9.88	3	H	0	1.00	-
PK	771.08M	40.18	46.00	-5.82	-5.97	3	H	0	1.00	-
QP	299.66M	42.23	46.00	-3.77	-15.32	3	H	226	1.02	-
QP	350.1M	42.88	46.00	-3.12	-14.11	3	H	224	1.1	-

Summary

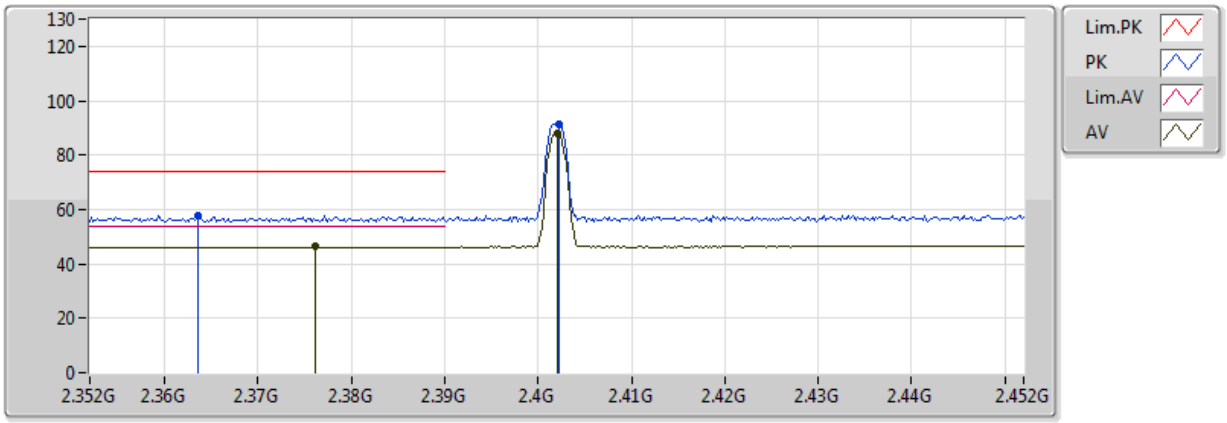
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.4906G	47.11	54.00	-6.89	31.55	3	V	220	2.74	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3888G	46.28	54.00	-7.72	31.17	3	H	45	1.05	-
2402MHz	Pass	AV	2.402G	89.00	Inf	-Inf	31.22	3	H	45	1.05	-
2402MHz	Pass	PK	2.3554G	58.95	74.00	-15.05	31.04	3	H	45	1.05	-
2402MHz	Pass	PK	2.4018G	92.05	Inf	-Inf	31.22	3	H	45	1.05	-
2402MHz	Pass	AV	2.3762G	46.25	54.00	-7.75	31.12	3	V	23	3.67	-
2402MHz	Pass	AV	2.402G	88.23	Inf	-Inf	31.22	3	V	23	3.67	-
2402MHz	Pass	PK	2.3636G	57.97	74.00	-16.03	31.07	3	V	23	3.67	-
2402MHz	Pass	PK	2.4022G	91.23	Inf	-Inf	31.22	3	V	23	3.67	-
2402MHz	Pass	AV	4.804G	33.81	54.00	-20.19	3.80	3	H	0	1.50	-
2402MHz	Pass	PK	4.804G	45.93	74.00	-28.07	3.80	3	H	0	1.50	-
2402MHz	Pass	AV	4.804G	34.33	54.00	-19.67	3.80	3	V	360	1.50	-
2402MHz	Pass	PK	4.804G	45.77	74.00	-28.23	3.80	3	V	360	1.50	-
2440MHz	Pass	AV	2.3888G	46.28	54.00	-7.72	31.17	3	H	31	1.50	-
2440MHz	Pass	AV	2.44G	89.00	Inf	-Inf	31.36	3	H	31	1.50	-
2440MHz	Pass	AV	2.4936G	47.10	54.00	-6.90	31.57	3	H	31	1.50	-
2440MHz	Pass	PK	2.3868G	58.08	74.00	-15.92	31.16	3	H	31	1.50	-
2440MHz	Pass	PK	2.4404G	92.24	Inf	-Inf	31.36	3	H	31	1.50	-
2440MHz	Pass	PK	2.4872G	59.51	74.00	-14.49	31.54	3	H	31	1.50	-
2440MHz	Pass	AV	2.3824G	46.30	54.00	-7.70	31.14	3	V	48	2.45	-
2440MHz	Pass	AV	2.44G	85.77	Inf	-Inf	31.36	3	V	48	2.45	-
2440MHz	Pass	AV	2.4976G	47.07	54.00	-6.93	31.58	3	V	48	2.45	-
2440MHz	Pass	PK	2.3776G	57.91	74.00	-16.09	31.12	3	V	48	2.45	-
2440MHz	Pass	PK	2.4404G	88.97	Inf	-Inf	31.36	3	V	48	2.45	-
2440MHz	Pass	PK	2.496G	58.01	74.00	-15.99	31.57	3	V	48	2.45	-
2440MHz	Pass	AV	4.88G	33.70	54.00	-20.30	3.93	3	H	0	1.50	-
2440MHz	Pass	PK	4.88G	45.43	74.00	-28.57	3.93	3	H	0	1.50	-
2440MHz	Pass	AV	4.88G	33.71	54.00	-20.29	3.93	3	V	360	1.50	-
2440MHz	Pass	PK	4.88G	45.22	74.00	-28.78	3.93	3	V	360	1.50	-
2480MHz	Pass	AV	2.48G	90.59	Inf	-Inf	31.51	3	H	29	1.50	-
2480MHz	Pass	AV	2.4914G	47.08	54.00	-6.92	31.56	3	H	29	1.50	-
2480MHz	Pass	PK	2.4798G	93.63	Inf	-Inf	31.51	3	H	29	1.50	-
2480MHz	Pass	PK	2.4938G	57.80	74.00	-16.20	31.57	3	H	29	1.50	-
2480MHz	Pass	AV	2.48G	87.72	Inf	-Inf	31.51	3	V	220	2.74	-
2480MHz	Pass	AV	2.4906G	47.11	54.00	-6.89	31.55	3	V	220	2.74	-
2480MHz	Pass	PK	2.4798G	90.80	Inf	-Inf	31.51	3	V	220	2.74	-
2480MHz	Pass	PK	2.4874G	59.21	74.00	-14.79	31.54	3	V	220	2.74	-
2480MHz	Pass	AV	4.96G	34.00	54.00	-20.00	4.07	3	H	0	1.50	-
2480MHz	Pass	PK	4.96G	47.32	74.00	-26.68	4.07	3	H	0	1.50	-
2480MHz	Pass	AV	4.96G	33.98	54.00	-20.02	4.07	3	V	360	1.50	-
2480MHz	Pass	PK	4.96G	46.16	74.00	-27.84	4.07	3	V	360	1.50	-

BT-LE(1Mbps)

2402MHz_TX

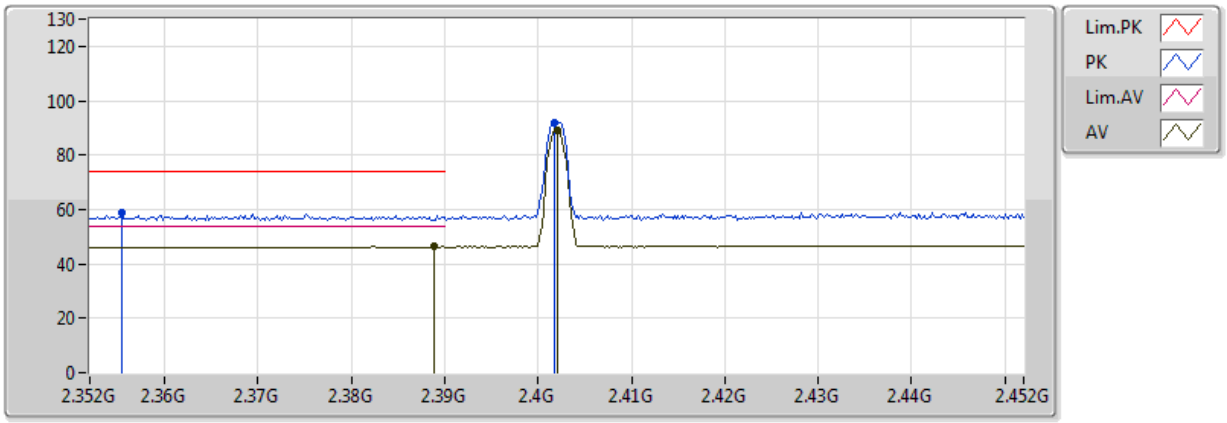


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3762G	46.25	54.00	-7.75	31.12	3	V	23	3.67	-
AV	2.402G	88.23	Inf	-Inf	31.22	3	V	23	3.67	-
PK	2.3636G	57.97	74.00	-16.03	31.07	3	V	23	3.67	-
PK	2.4022G	91.23	Inf	-Inf	31.22	3	V	23	3.67	-

BT-LE(1Mbps)

2402MHz_TX

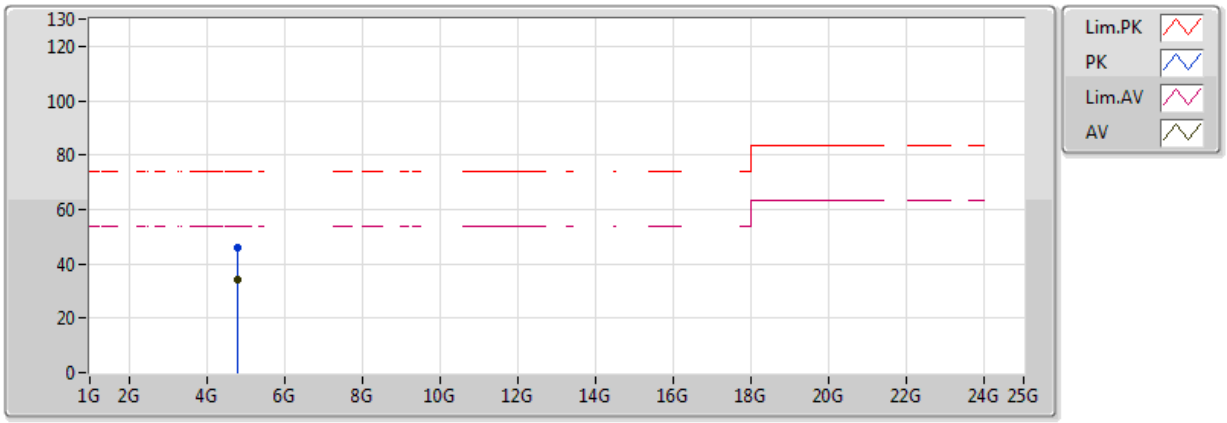


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3888G	46.28	54.00	-7.72	31.17	3	H	45	1.05	-
AV	2.402G	89.00	Inf	-Inf	31.22	3	H	45	1.05	-
PK	2.3554G	58.95	74.00	-15.05	31.04	3	H	45	1.05	-
PK	2.4018G	92.05	Inf	-Inf	31.22	3	H	45	1.05	-

BT-LE(1Mbps)

2402MHz_TX

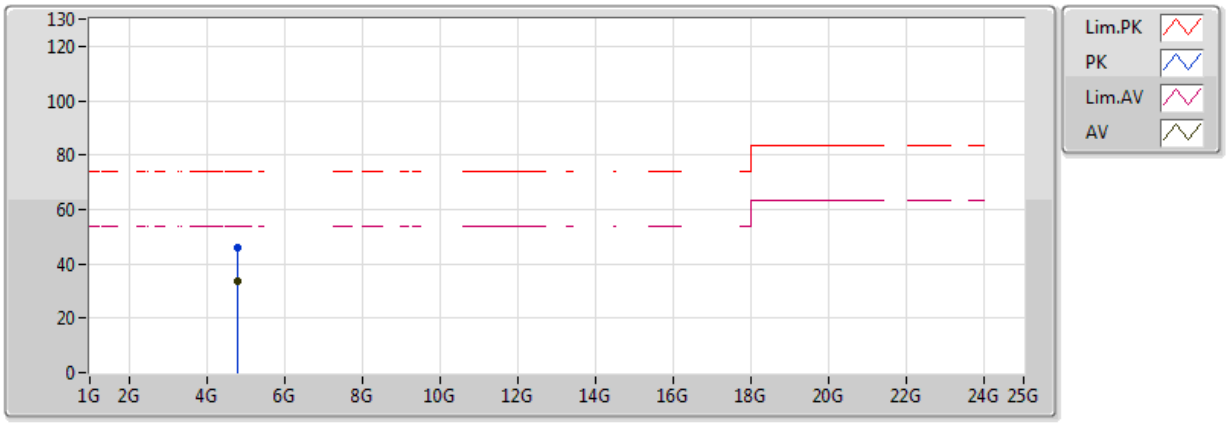


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.804G	34.33	54.00	-19.67	3.80	3	V	360	1.50	-
PK	4.804G	45.77	74.00	-28.23	3.80	3	V	360	1.50	-

BT-LE(1Mbps)

2402MHz_TX

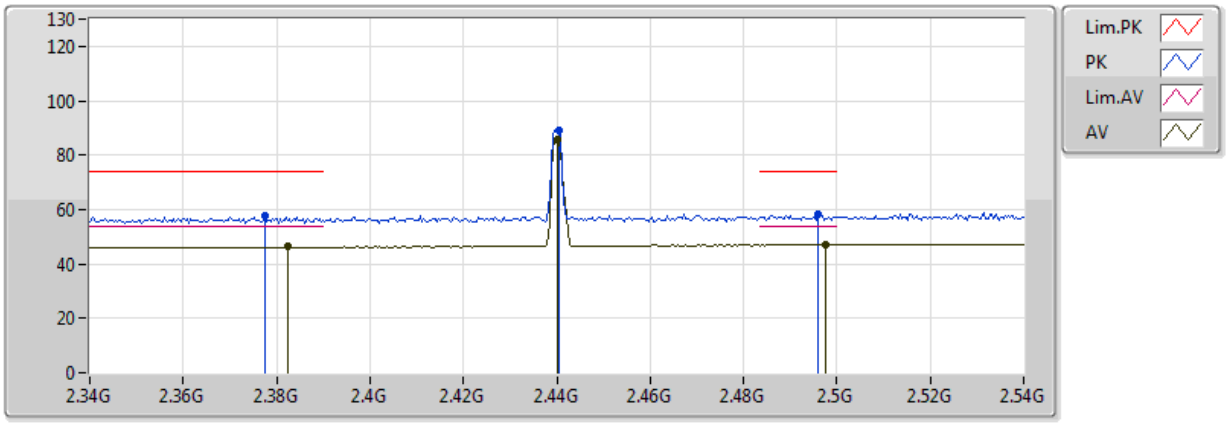


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.804G	33.81	54.00	-20.19	3.80	3	H	0	1.50	-
PK	4.804G	45.93	74.00	-28.07	3.80	3	H	0	1.50	-

BT-LE(1Mbps)

2440MHz_TX

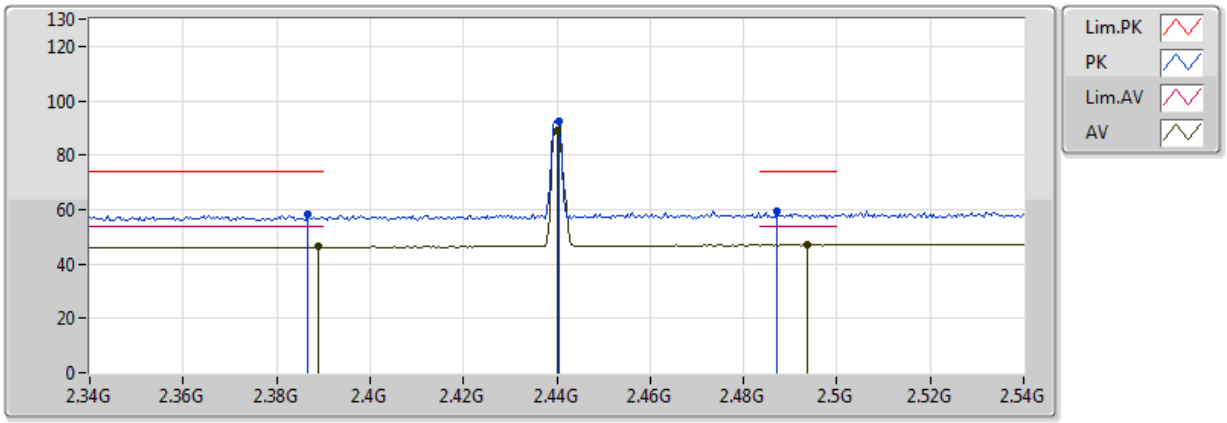


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3824G	46.30	54.00	-7.70	31.14	3	V	48	2.45	-
AV	2.44G	85.77	Inf	-Inf	31.36	3	V	48	2.45	-
AV	2.4976G	47.07	54.00	-6.93	31.58	3	V	48	2.45	-
PK	2.3776G	57.91	74.00	-16.09	31.12	3	V	48	2.45	-
PK	2.4404G	88.97	Inf	-Inf	31.36	3	V	48	2.45	-
PK	2.496G	58.01	74.00	-15.99	31.57	3	V	48	2.45	-

BT-LE(1Mbps)

2440MHz_TX

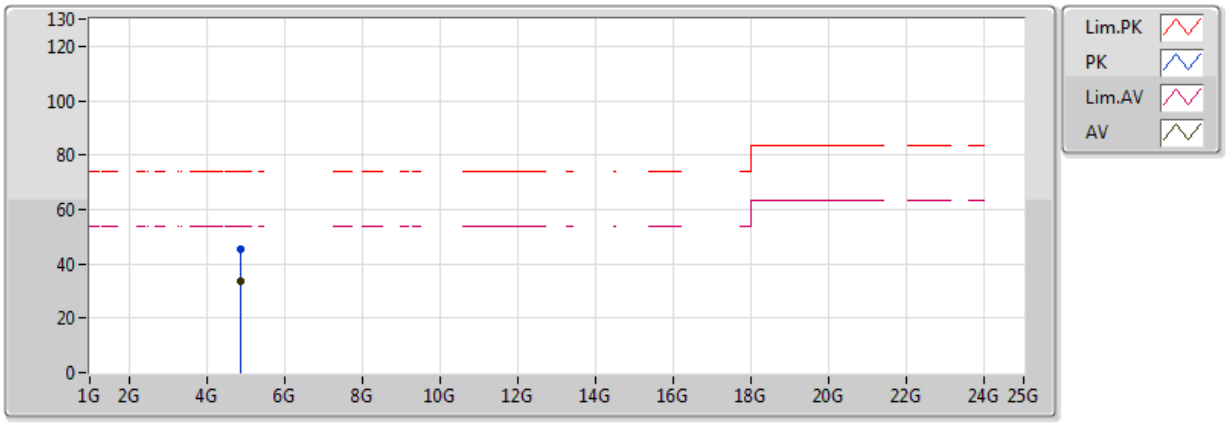


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3888G	46.28	54.00	-7.72	31.17	3	H	31	1.50	-
AV	2.44G	89.00	Inf	-Inf	31.36	3	H	31	1.50	-
AV	2.4936G	47.10	54.00	-6.90	31.57	3	H	31	1.50	-
PK	2.3868G	58.08	74.00	-15.92	31.16	3	H	31	1.50	-
PK	2.4404G	92.24	Inf	-Inf	31.36	3	H	31	1.50	-
PK	2.4872G	59.51	74.00	-14.49	31.54	3	H	31	1.50	-

BT-LE(1Mbps)

2440MHz_TX

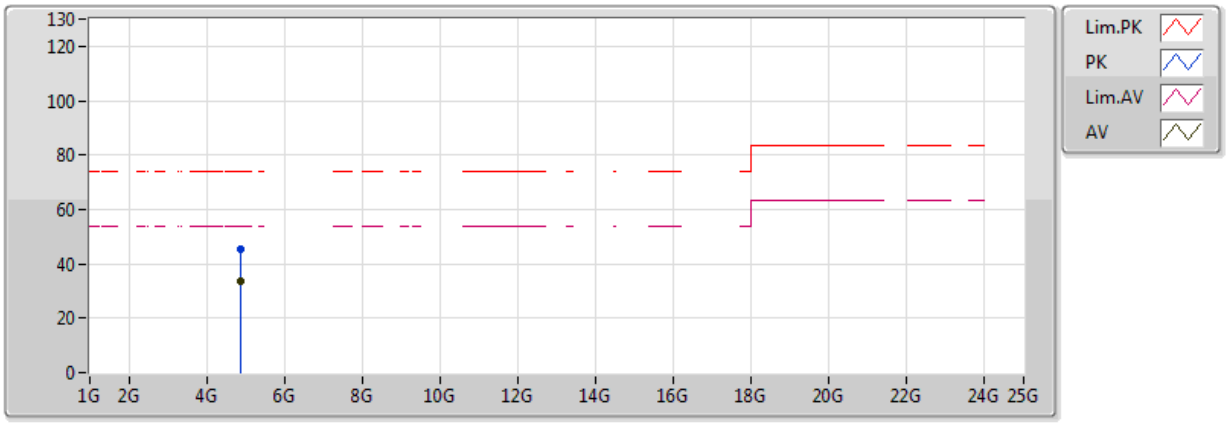


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.88G	33.71	54.00	-20.29	3.93	3	V	360	1.50	-
PK	4.88G	45.22	74.00	-28.78	3.93	3	V	360	1.50	-

BT-LE(1Mbps)

2440MHz_TX

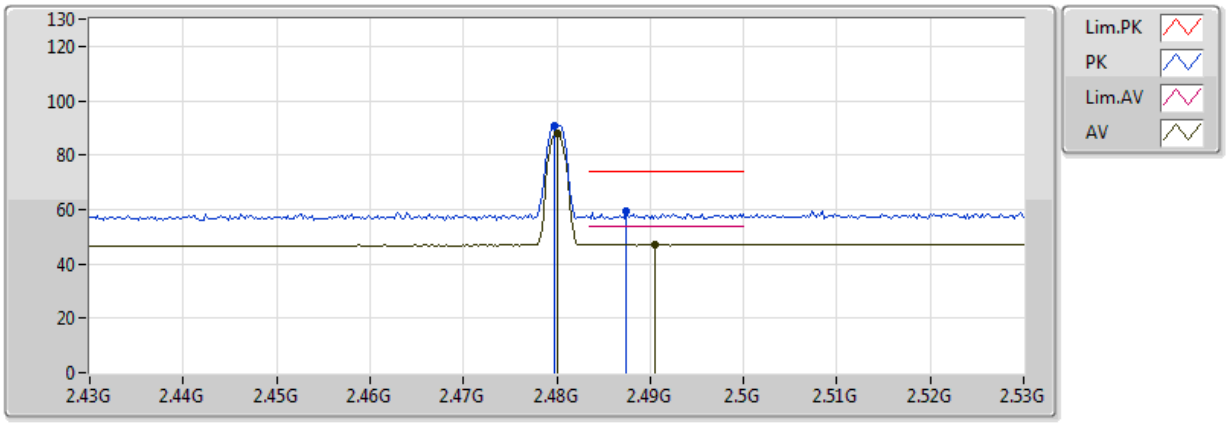


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.88G	33.70	54.00	-20.30	3.93	3	H	0	1.50	-
PK	4.88G	45.43	74.00	-28.57	3.93	3	H	0	1.50	-

BT-LE(1Mbps)

2480MHz_TX

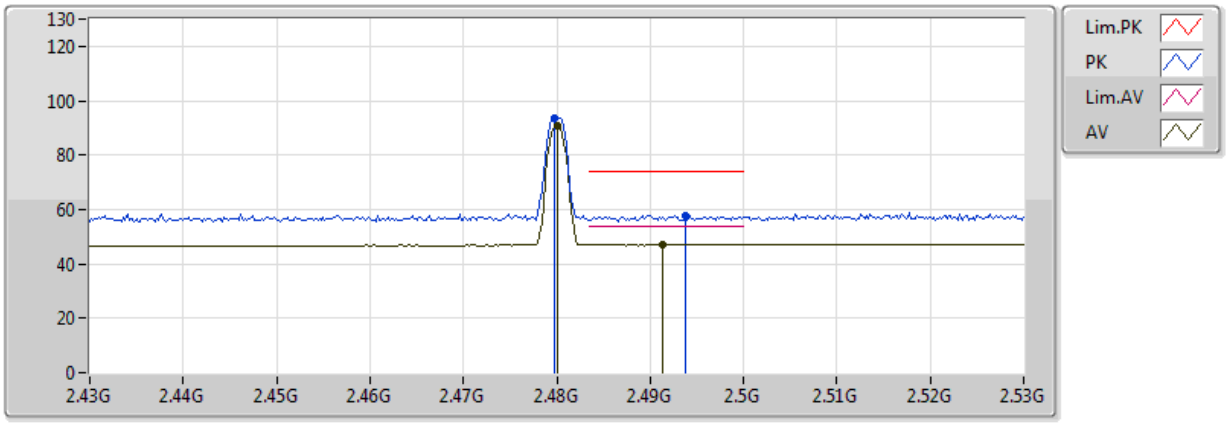


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.48G	87.72	Inf	-Inf	31.51	3	V	220	2.74	-
AV	2.4906G	47.11	54.00	-6.89	31.55	3	V	220	2.74	-
PK	2.4798G	90.80	Inf	-Inf	31.51	3	V	220	2.74	-
PK	2.4874G	59.21	74.00	-14.79	31.54	3	V	220	2.74	-

BT-LE(1Mbps)

2480MHz_TX

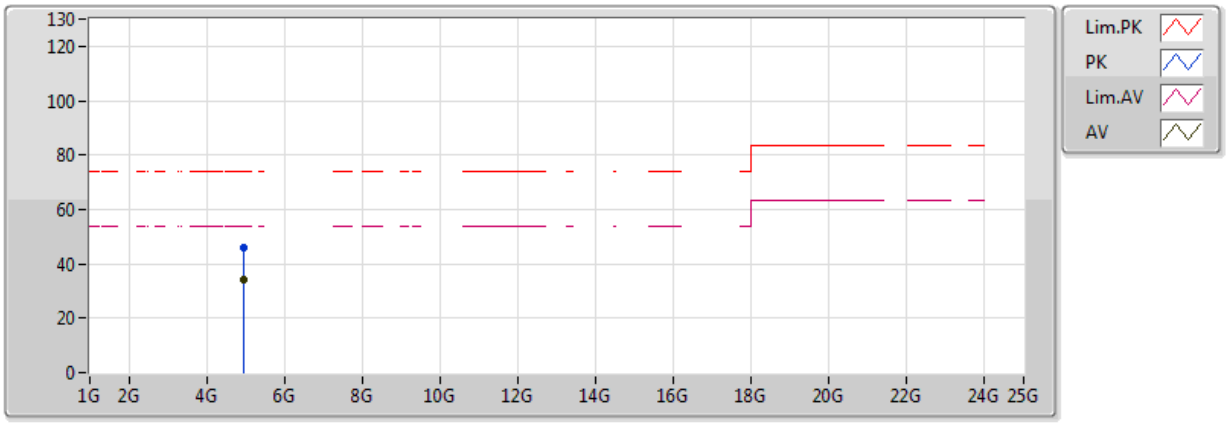


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.48G	90.59	Inf	-Inf	31.51	3	H	29	1.50	-
AV	2.4914G	47.08	54.00	-6.92	31.56	3	H	29	1.50	-
PK	2.4798G	93.63	Inf	-Inf	31.51	3	H	29	1.50	-
PK	2.4938G	57.80	74.00	-16.20	31.57	3	H	29	1.50	-

BT-LE(1Mbps)

2480MHz_TX

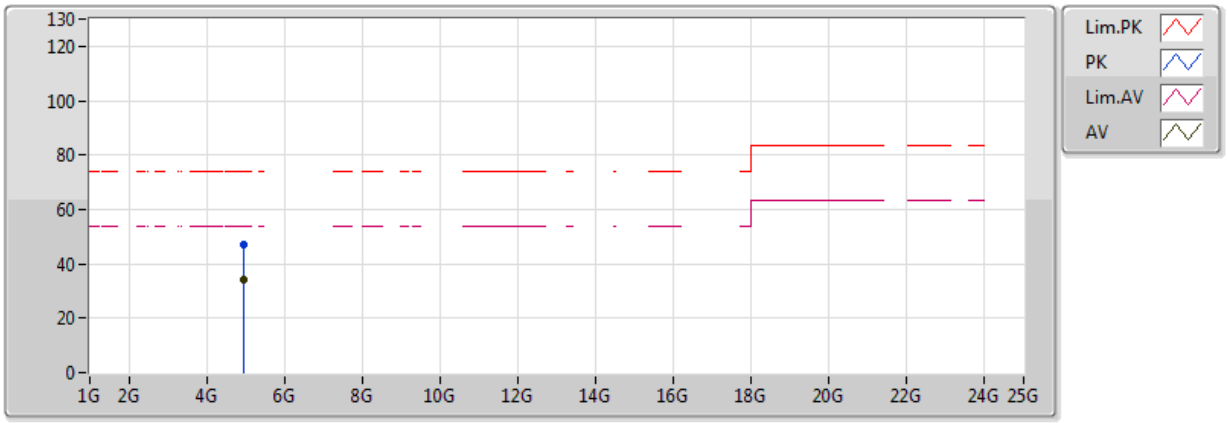


EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.96G	33.98	54.00	-20.02	4.07	3	V	360	1.50	-
PK	4.96G	46.16	74.00	-27.84	4.07	3	V	360	1.50	-

BT-LE(1Mbps)

2480MHz_TX



EUT : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.96G	34.00	54.00	-20.00	4.07	3	H	0	1.50	-
PK	4.96G	47.32	74.00	-26.68	4.07	3	H	0	1.50	-