

FCC Test Report

Equipment : Camera
Brand Name : Logitech
Model No. : V-R0008
FCC ID : JNZVR0008
Standard : 47 CFR FCC Part 15.247
Frequency : 2400 MHz – 2483.5 MHz
Function : ☒ Point-to-multipoint; ☐ Point-to-point
Applicant : Logitech Far East Ltd
No. 2, Creation Road IV Science-Based Industrial Park
Hsinchu Taiwan
Manufacturer : Company Name Chicony Electronics (Dong Guan) Co., Ltd.
San Zhong Guan Li Qu, Qingxi Town, Dongguan City
Guangdong 523651 China

The product sample received on Apr. 06, 2017 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 INTERNATIONAL INC., the test report shall not be reproduced except in full.


Phoenix Chen
SPORTON INTERNATIONAL INC.

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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

[illegible]

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

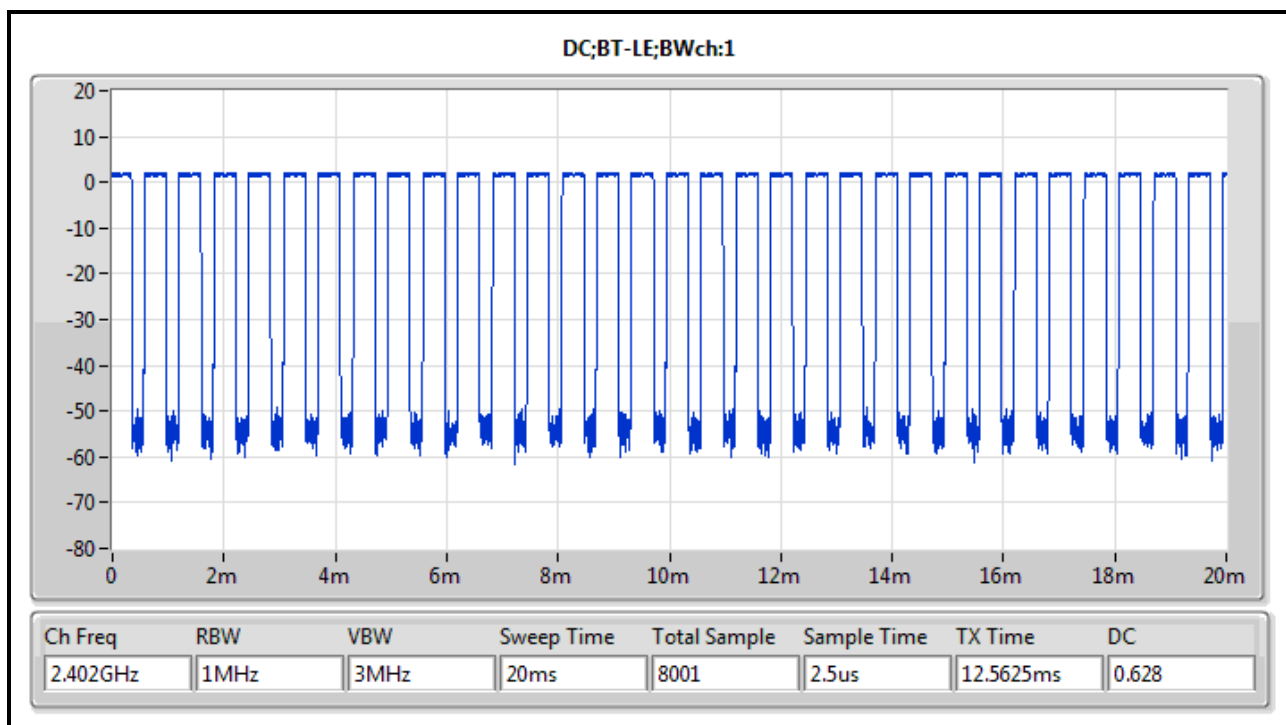
Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	PIFA Antenna	fixed on board	-1.55

1.1.3 EUT Information

Operational Condition	
Hardware Version	PB3
EUT Power Type	From Power 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) $\geq 1/T$
BT-LE(1Mbps)	0.628	2.02	392.5u	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			
☒	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.			
Test site registered number IC 4086B-1 with Industry Canada.			
☐	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			
Test site registered number IC 4086D with Industry Canada.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Teddy	23°C / 64%	09/May/2017
RF Conducted	TH01-HY	Wayne	23.5°C / 65%	02/May/2017
Radiated	03CH02-HY	Ryan	23.5°C / 65%	02/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	Normal Link

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

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

2.4 Accessories

Accessories				
AC Adapter	Brand Name	I.T.E	Model Name	AD2063M22
	Power Rating	I/P: 100-240Vac, 0.3A, O/P: 5.1Vdc, 1.4A		

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

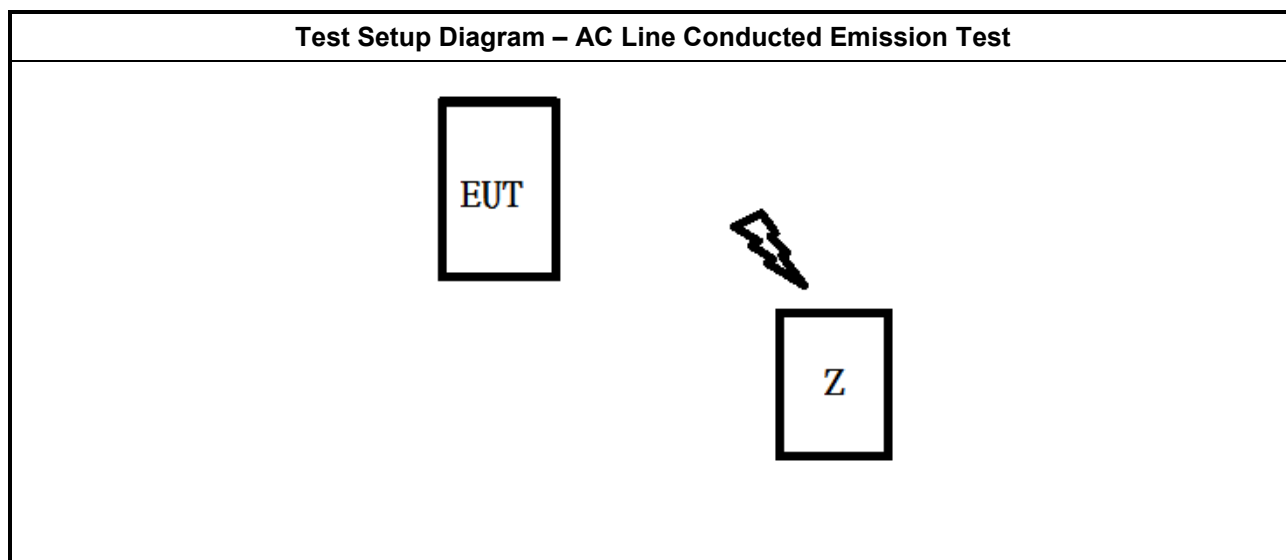
2.5 Support Equipment

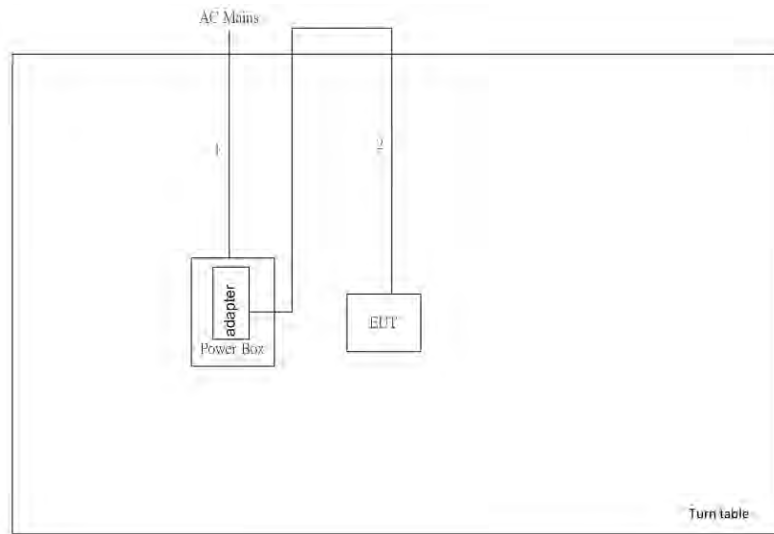
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
Z	iPad mini	APPLE	16GB	DoC

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

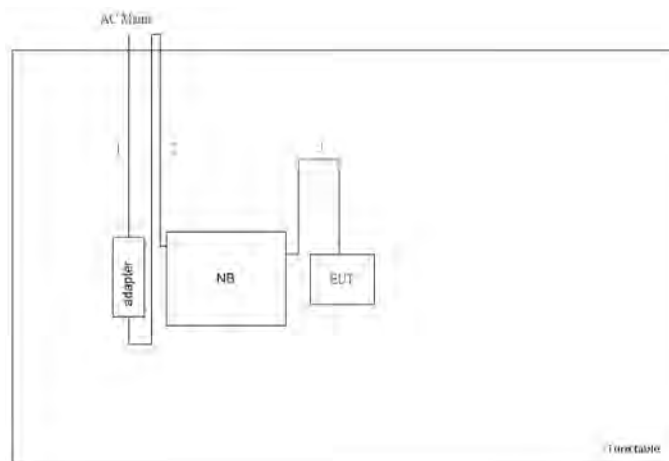
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	LA65NS2-01	DoC

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	AC power line	No	1.5m
2	USB cable	D	2.85m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	AC power line	No	1.8m
2	DC power line	No	1.8m
3	USB cable	D	0.7m

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.

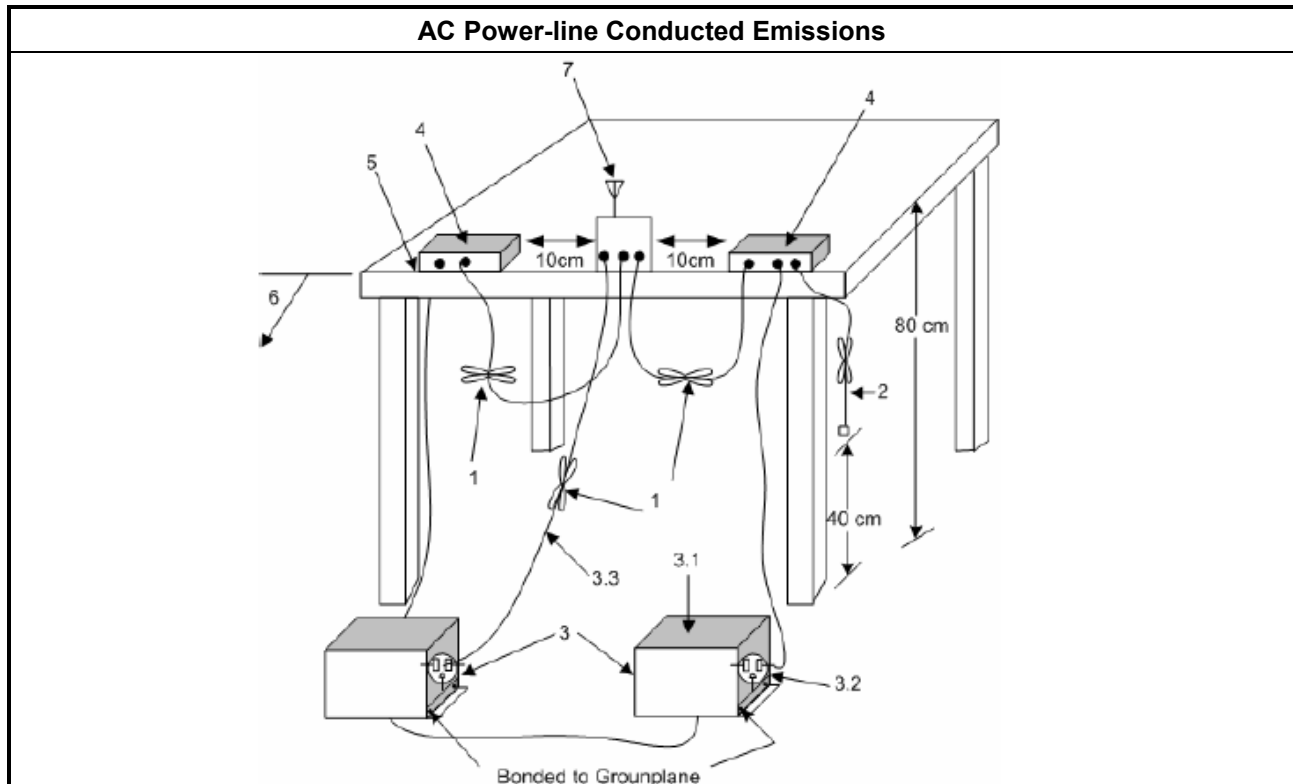
3.1.2 Measuring Instruments

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



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 $\geq$ 500 kHz.

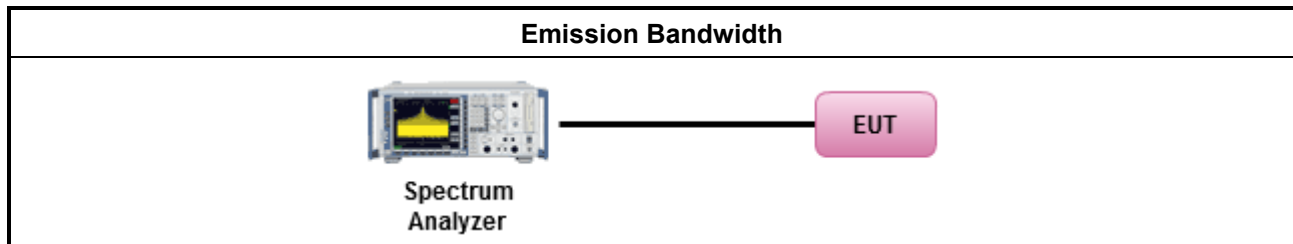
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074, clause 8.1 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



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

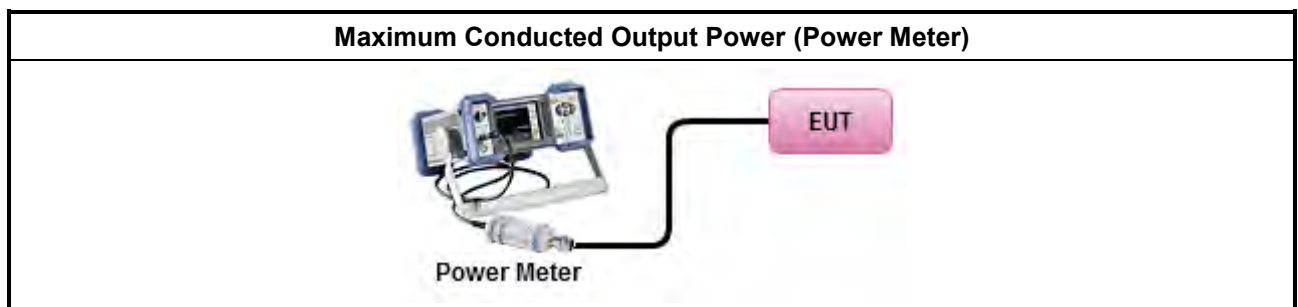
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit	
▪	Power Spectral Density (PSD) $\leq$ 8 dBm/3kHz

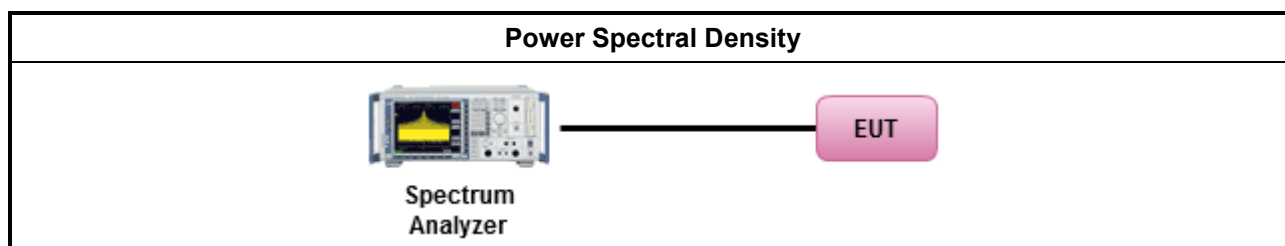
3.4.2 Measuring Instruments

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



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.	

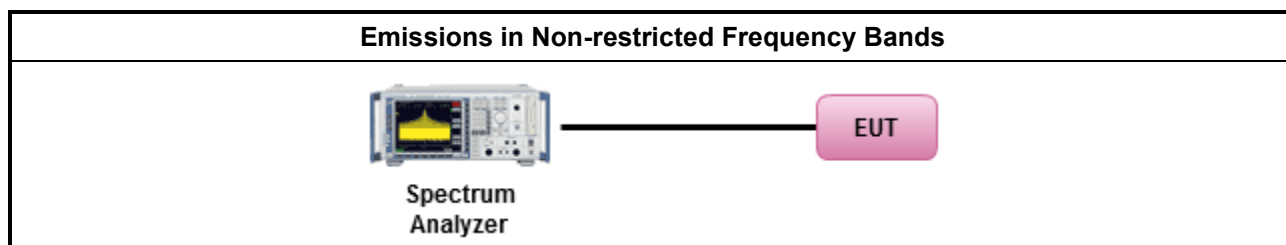
3.5.2 Measuring Instruments

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



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.

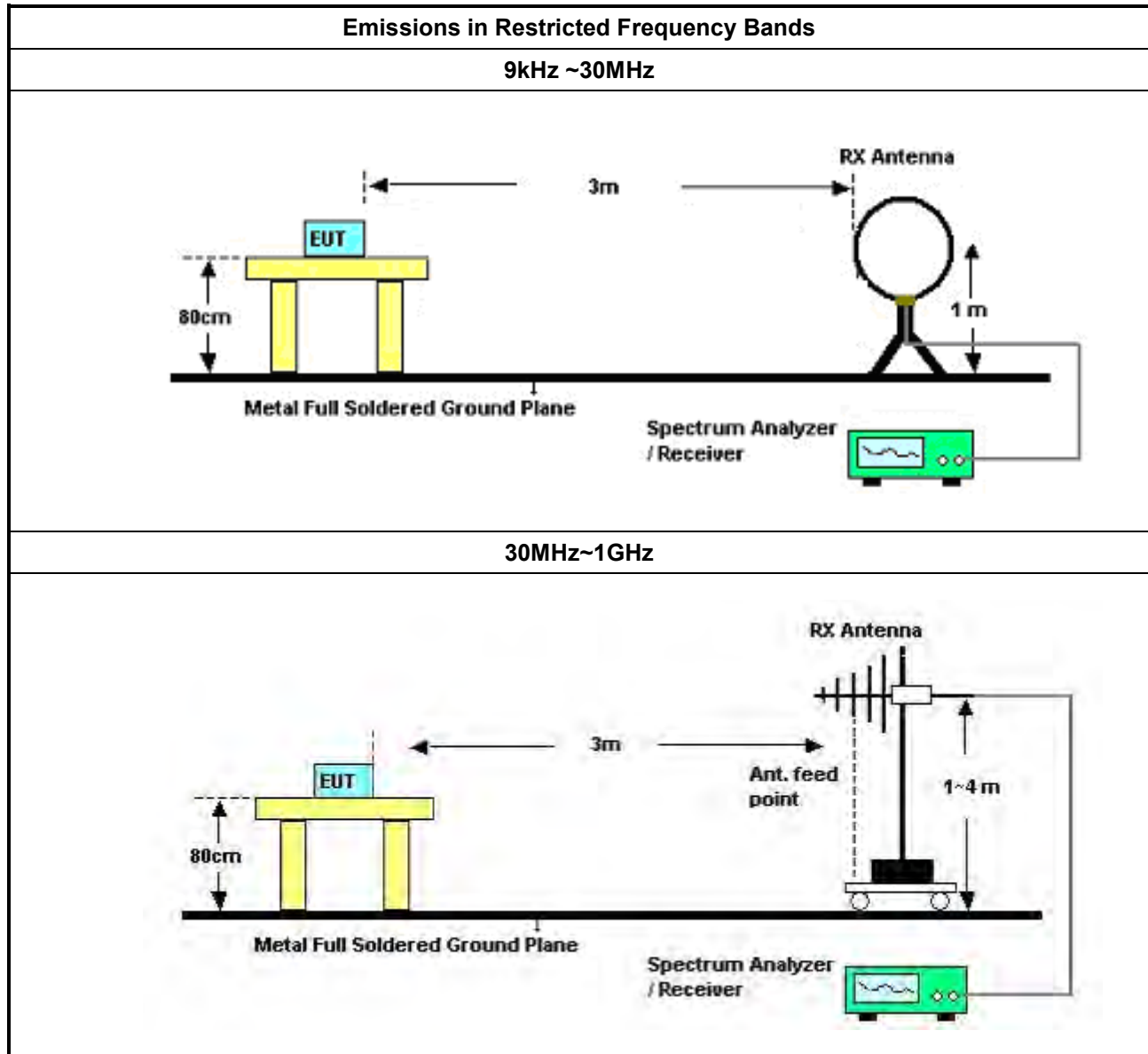
3.6.2 Measuring Instruments

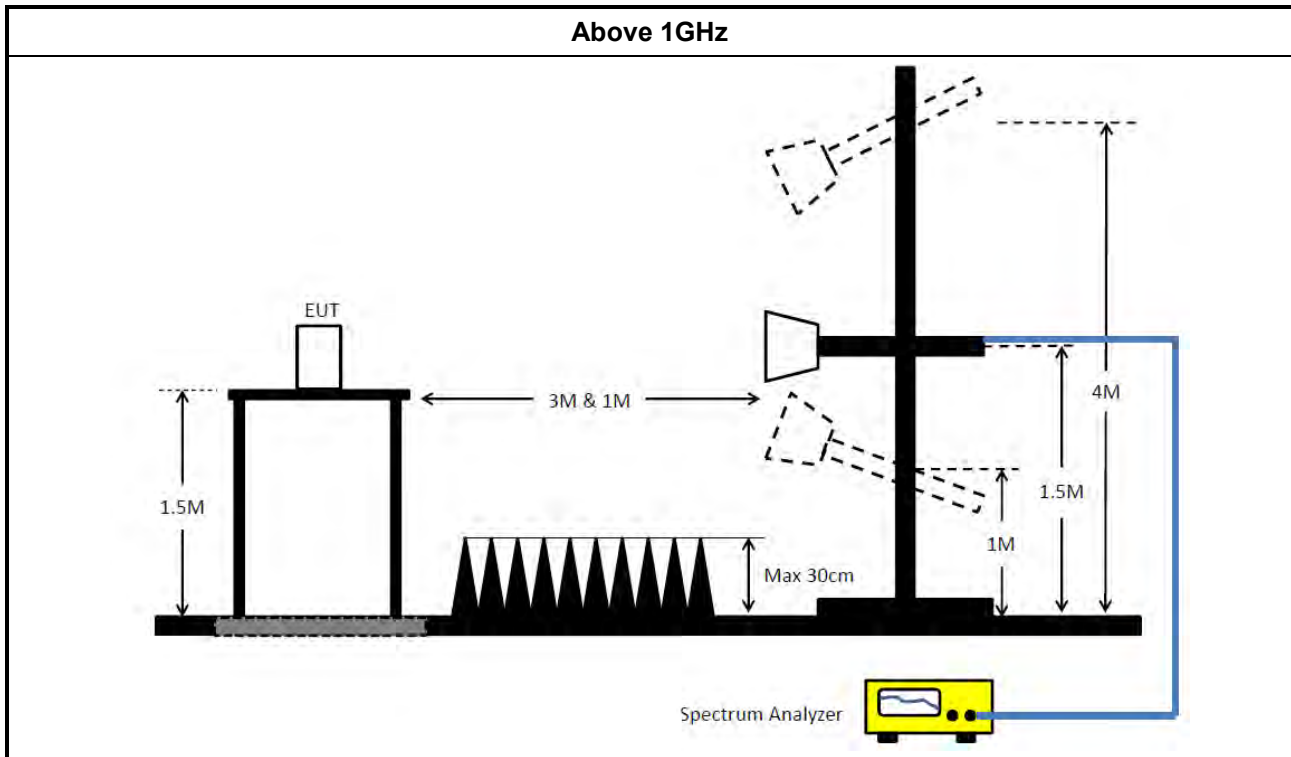
Refer a test equipment and calibration data table in this test report.

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 $\geq 1/T$.
	☒ 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





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	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018
LISN	SCHWARZBECK MESS-ELEKTRO NIK	NSLK 8127	8127-477	9kHz ~ 30MHz with 50Ohm/50uH	14/Feb/2017	13/Feb/2018
RF Cable-CON	HUBER+SUHNE R	RG213/U	07611832020001	9kHz ~ 30MHz	24/Oct/2016	23/Oct/2017
Impulsbegrenzer Pulse Limiter	R&S	ESH3-Z2	100921	10 kHz ~ 30 MHz	20/Oct/2016	19/Oct/2017

Instrument for Conducted Test

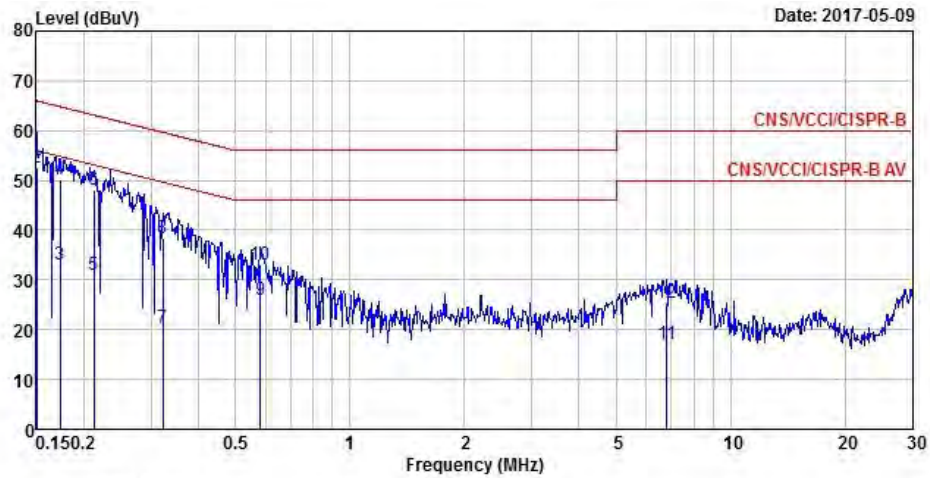
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	9kHz~40GHz	12/May/2016	11/May/2017
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	27/Oct/2016	26/Oct/2017
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	27/Oct/2016	26/Oct/2017
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHNE R	SUCOFLEX_10 4	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNE R	SUCOFLEX_10 4	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNE R	SUCOFLEX_10 4	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP40	100593	9kHz - 40GHz	26/Oct/2016	25/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz-1GHz	03/Jun/2016	02/Jun/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz	12/Dec/2016	11/Dec/2017
Amplifier	Agilent	8447D	2944A11149	100KHz-1.3GHz	01/Jul/2016	30/Jun/2017
Amplifier	Agilent	8449B	3008A02373	1GHz-26.5GHz	02/Sep/2016	01/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D 01531	1GHz-18GHz	25/Apr/2017	24/Apr/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz-40GHz	06/Feb/2017	05/Feb/2018
Bilog Antenna	SCHAFFNER	CBL6112B	2723	30MHz-1GHz	01/Oct/2016	30/Sep/2017
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

AC Power-line Conducted Emissions Result

Operating Function	Normal Link	Power Phase	Neutral
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	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	34.50	-21.50	56.00	34.25	0.03	0.22	Average
2 MAX	0.15	52.51	-13.49	66.00	52.26	0.03	0.22	QP
3	0.17	33.02	-21.79	54.81	32.73	0.03	0.26	Average
4	0.17	50.27	-14.54	64.81	49.98	0.03	0.26	QP
5	0.21	31.06	-22.04	53.10	30.75	0.03	0.28	Average
6	0.21	48.17	-14.93	63.10	47.86	0.03	0.28	QP
7	0.32	20.40	-29.26	49.66	20.21	0.03	0.16	Average
8	0.32	38.47	-21.19	59.66	38.28	0.03	0.16	QP
9	0.58	25.92	-20.08	46.00	25.78	0.04	0.10	Average
10	0.58	32.94	-23.06	56.00	32.80	0.04	0.10	QP
11	6.81	17.05	-32.95	50.00	16.72	0.17	0.16	Average
12	6.81	25.48	-34.52	60.00	25.15	0.17	0.16	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.)

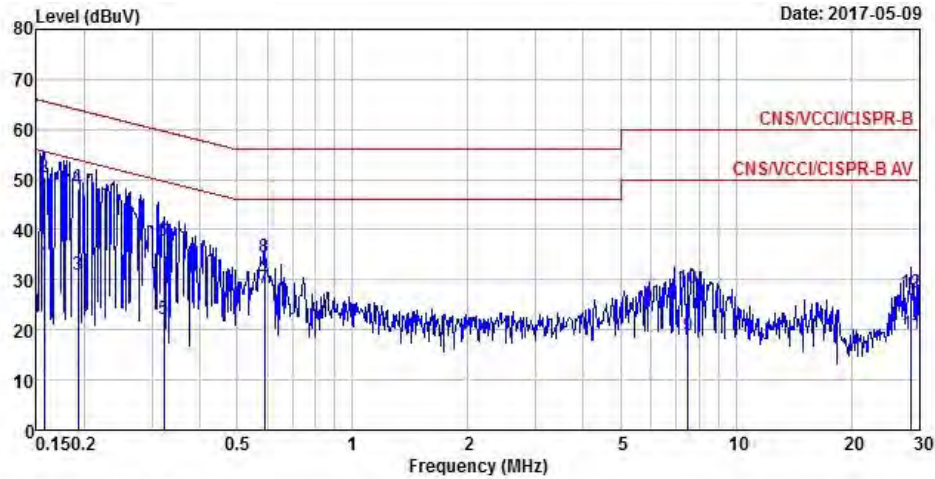
AC Power-line Conducted Emissions Result

Operating Function

Normal Link

Power Phase

Line



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	33.03	-22.57	55.60	32.73	0.07	0.23	Average
2 MAX	0.16	50.36	-15.24	65.60	50.06	0.07	0.23	QP
3	0.19	30.85	-23.08	53.93	30.49	0.07	0.29	Average
4	0.19	48.10	-15.83	63.93	47.74	0.07	0.29	QP
5	0.32	22.08	-27.58	49.66	21.85	0.07	0.16	Average
6	0.32	37.67	-21.99	59.66	37.44	0.07	0.16	QP
7	0.59	28.23	-17.77	46.00	28.05	0.08	0.10	Average
8	0.59	34.45	-21.55	56.00	34.27	0.08	0.10	QP
9	7.49	18.99	-31.01	50.00	18.53	0.29	0.17	Average
10	7.49	28.46	-31.54	60.00	28.00	0.29	0.17	QP
11	28.60	19.04	-30.96	50.00	17.98	0.79	0.27	Average
12	28.60	27.44	-32.56	60.00	26.38	0.79	0.27	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.)

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	717.5k	1.059M	1M06F1D	712.5k	1.056M

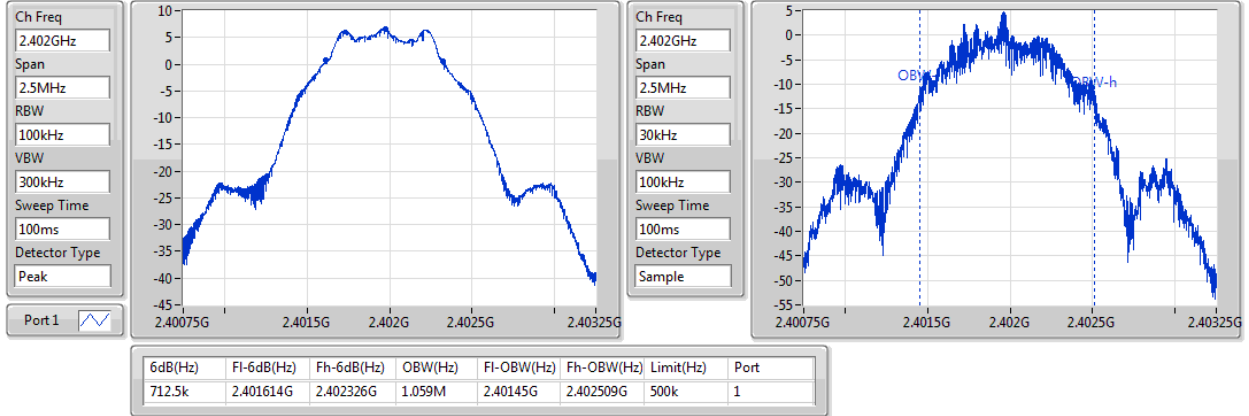
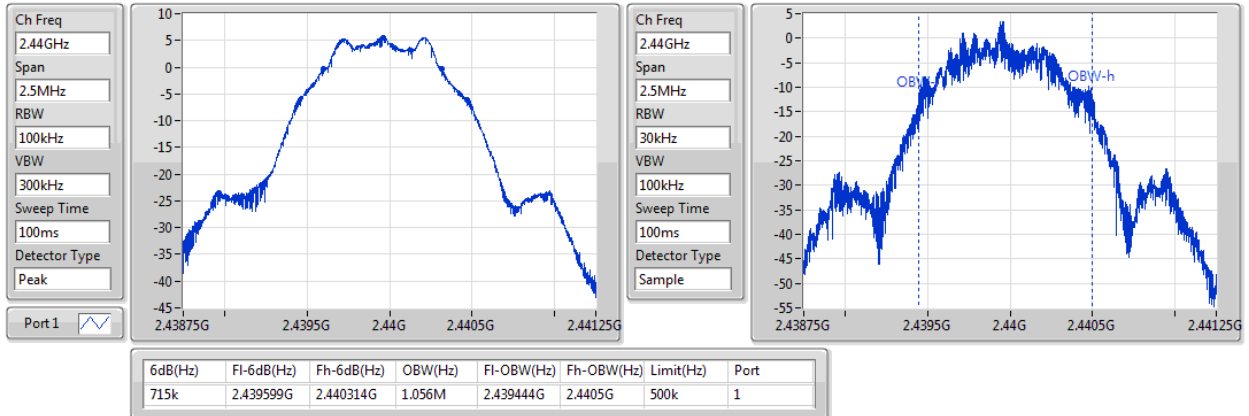
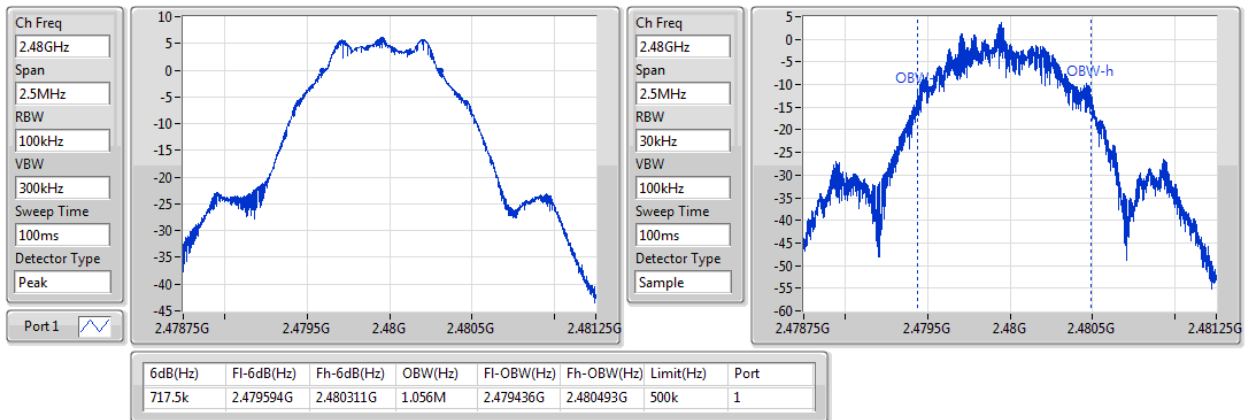
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

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	712.5k	1.059M
2440MHz	Pass	500k	715k	1.056M
2480MHz	Pass	500k	717.5k	1.056M

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

BT-LE(1Mbps)
EBW
2402MHz

BT-LE(1Mbps)
EBW
2440MHz

BT-LE(1Mbps)
EBW
2480MHz


**Summary**

Mode	Power	Power
	(dBm)	(W)
BT-LE(1Mbps)	-	-
2.4-2.4835GHz	7.03	0.00505

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	-1.55	7.03	30.00
2440MHz	Pass	-1.55	6.10	30.00
2480MHz	Pass	-1.55	6.20	30.00

**Summary**

Mode	PD (dBm/RBW)
BT-LE(1Mbps)	-
2.4-2.4835GHz	-8.60

RBW=3kHz.

Result

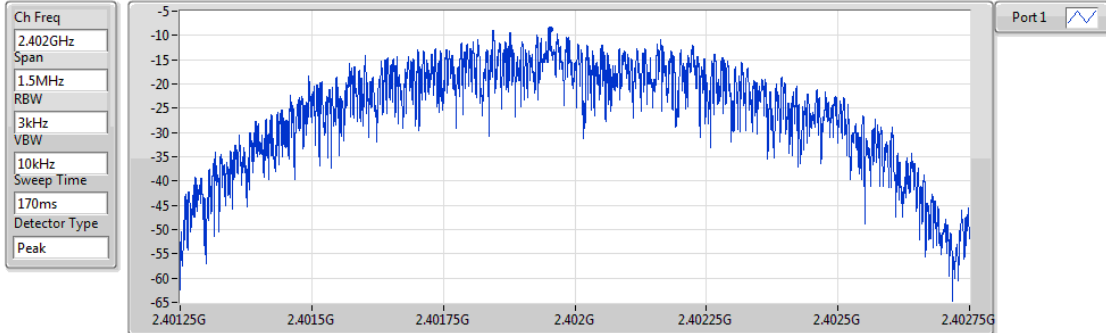
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	-1.55	-8.79	8.00
2440MHz	Pass	-1.55	-9.59	8.00
2480MHz	Pass	-1.55	-8.60	8.00

RBW=3kHz.

BT-LE(1Mbps)

PSD

2402MHz

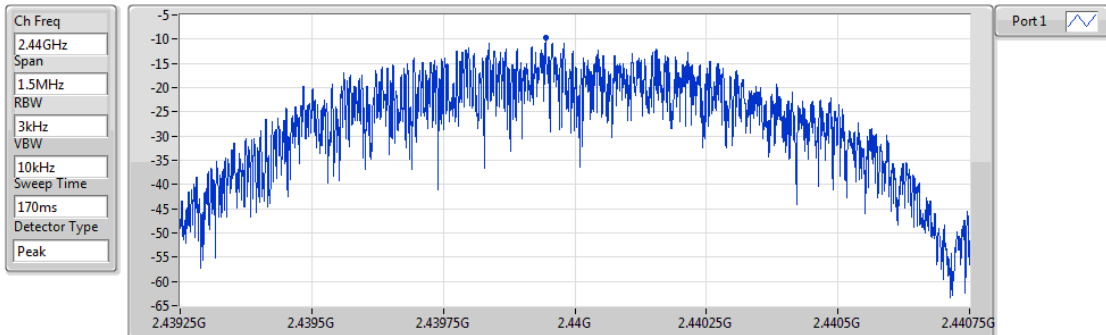


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.79	-8.79	-8.79

BT-LE(1Mbps)

PSD

2440MHz

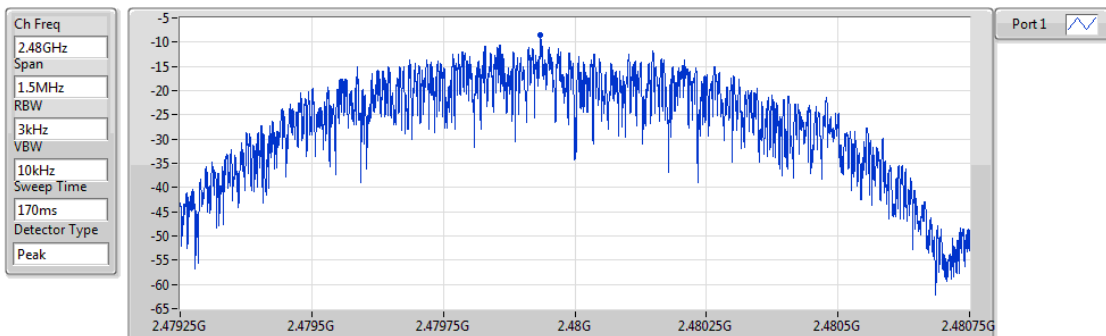


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.59	-9.59	-9.59

BT-LE(1Mbps)

PSD

2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.60	-8.60	-8.60

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	5.76	-24.24	1.954G	-49.15	2.399936G	-47.17	2.485436G	-47.80	21.842341G	-28.46	1

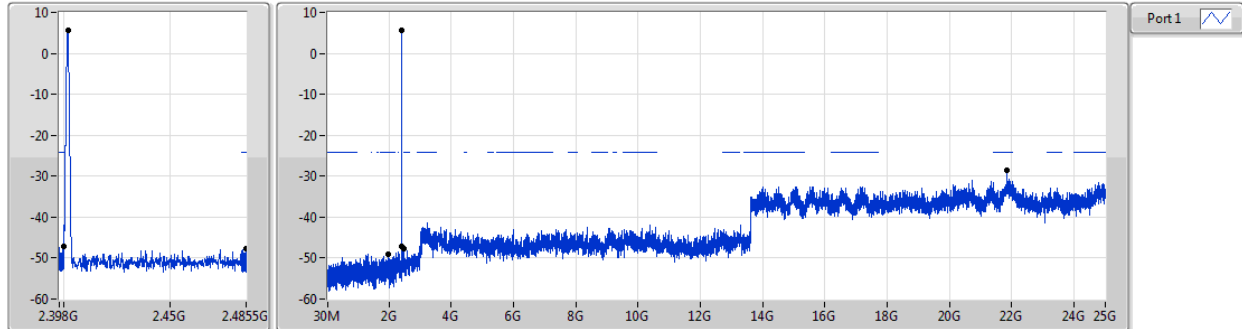
Result

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	2.402004G	5.76	-24.24	1.954G	-49.15	2.399936G	-47.17	2.485436G	-47.80	21.842341G	-28.46	1
2440MHz	Pass	2.402004G	5.76	-24.24	1.785872G	-48.47	2.39988G	-47.39	2.484192G	-46.27	21.845156G	-30.58	1
2480MHz	Pass	2.402004G	5.76	-24.24	1.856912G	-47.79	2.398544G	-47.98	2.483756G	-48.22	21.977428G	-30.27	1

BT-LE(1Mbps)

CSE NdB

2402MHz

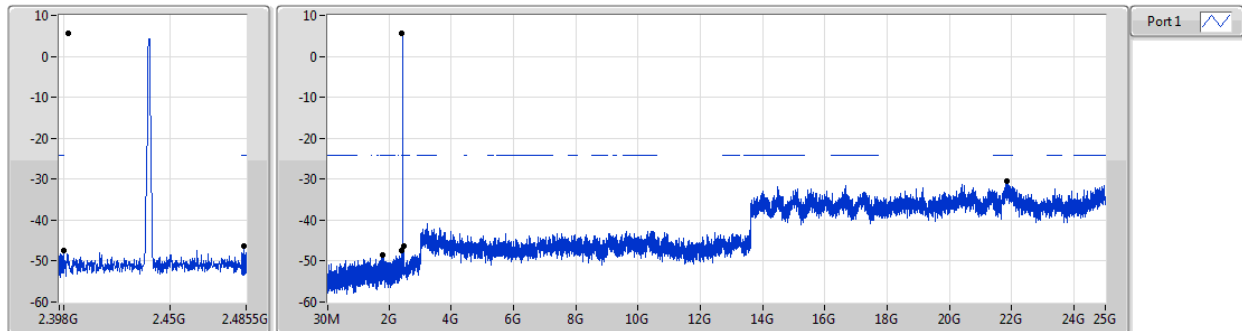


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402004G	5.76	-24.24	1.954G	-49.15	2.399936G	-47.17	2.485436G	-47.80	21.842341G	-28.46	1

BT-LE(1Mbps)

CSE NdB

2440MHz

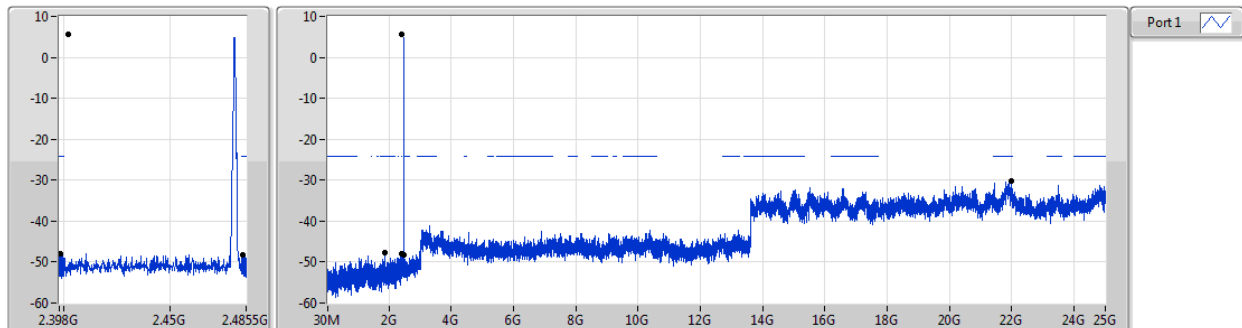


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402004G	5.76	-24.24	1.785872G	-48.47	2.39988G	-47.39	2.484192G	-46.27	21.845156G	-30.58	1

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
2.402004G	5.76	-24.24	1.856912G	-47.79	2.398544G	-47.98	2.483756G	-48.22	21.977428G	-30.27	1

Summary

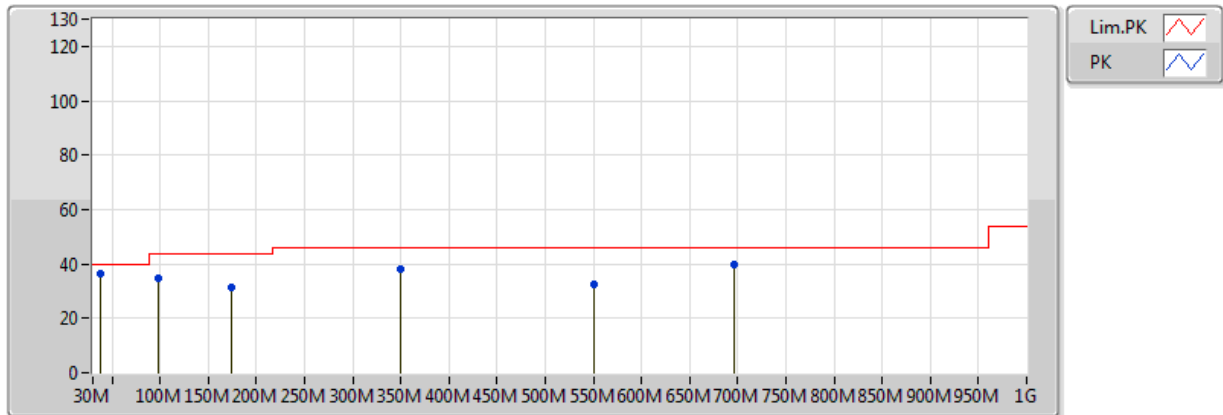
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	QP	37.76M	36.29	40.00	-3.71	-8.08	3	V	147	1.14	-

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	Pass	PK	148.34M	30.64	43.50	-12.86	-10.33	3	H	360	1.00	-
2440MHz	Pass	PK	249.22M	31.63	46.00	-14.37	-7.56	3	H	360	1.00	-
2440MHz	Pass	PK	350.1M	40.26	46.00	-5.74	-5.39	3	H	360	1.00	-
2440MHz	Pass	PK	400.54M	34.40	46.00	-11.60	-3.96	3	H	360	1.00	-
2440MHz	Pass	PK	456.8M	33.15	46.00	-12.85	-2.97	3	H	360	1.00	-
2440MHz	Pass	PK	850.62M	37.56	46.00	-8.44	2.19	3	H	360	1.00	-
2440MHz	Pass	PK	97.9M	34.53	43.50	-8.97	-10.88	3	V	0	1.00	-
2440MHz	Pass	PK	173.56M	31.52	43.50	-11.98	-10.91	3	V	0	1.00	-
2440MHz	Pass	PK	350.1M	38.12	46.00	-7.88	-5.39	3	V	0	1.00	-
2440MHz	Pass	PK	549.92M	32.37	46.00	-13.63	-0.92	3	V	0	1.00	-
2440MHz	Pass	PK	695.42M	39.59	46.00	-6.41	-0.38	3	V	0	1.00	-
2440MHz	Pass	QP	37.76M	36.29	40.00	-3.71	-8.08	3	V	147	1.14	-

BT-LE(1Mbps)

2440MHz_Adapter Mode

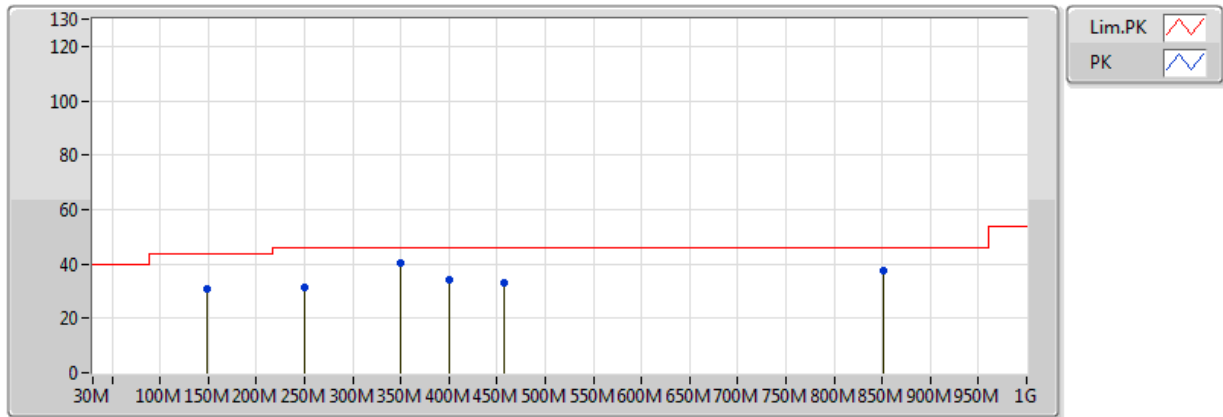


EUT=Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	97.9M	34.53	43.50	-8.97	-10.88	3	V	0	1.00	-
PK	173.56M	31.52	43.50	-11.98	-10.91	3	V	0	1.00	-
PK	350.1M	38.12	46.00	-7.88	-5.39	3	V	0	1.00	-
PK	549.92M	32.37	46.00	-13.63	-0.92	3	V	0	1.00	-
PK	695.42M	39.59	46.00	-6.41	-0.38	3	V	0	1.00	-
QP	37.76M	36.29	40.00	-3.71	-8.08	3	V	147	1.14	-

BT-LE(1Mbps)

2440MHz_Adapter Mode



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	148.34M	30.64	43.50	-12.86	-10.33	3	H	360	1.00	-
PK	249.22M	31.63	46.00	-14.37	-7.56	3	H	360	1.00	-
PK	350.1M	40.26	46.00	-5.74	-5.39	3	H	360	1.00	-
PK	400.54M	34.40	46.00	-11.60	-3.96	3	H	360	1.00	-
PK	456.8M	33.15	46.00	-12.85	-2.97	3	H	360	1.00	-
PK	850.62M	37.56	46.00	-8.44	2.19	3	H	360	1.00	-

Summary

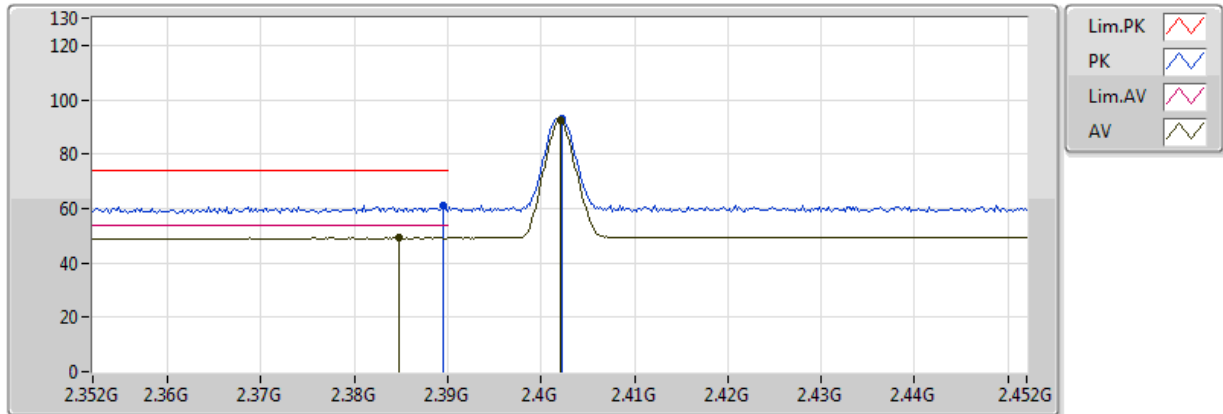
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.3848G	49.42	54.00	-4.58	35.80	3	V	287	1.38	-

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	2.39G	49.26	54.00	-4.74	35.81	3	H	21	1.10	-
2402MHz	Pass	AV	2.402G	95.02	Inf	-Inf	35.83	3	H	21	1.10	-
2402MHz	Pass	AV	4.804G	42.14	54.00	-11.86	5.05	3	H	159	1.99	-
2402MHz	Pass	PK	2.3598G	60.94	74.00	-13.06	35.75	3	H	21	1.10	-
2402MHz	Pass	PK	2.4022G	95.79	Inf	-Inf	35.83	3	H	21	1.10	-
2402MHz	Pass	PK	4.804G	53.51	74.00	-20.49	5.05	3	H	159	1.99	-
2402MHz	Pass	AV	2.3848G	49.42	54.00	-4.58	35.80	3	V	287	1.38	-
2402MHz	Pass	AV	2.402G	92.25	Inf	-Inf	35.83	3	V	287	1.38	-
2402MHz	Pass	AV	4.804G	34.65	54.00	-19.35	5.05	3	V	0	1.50	-
2402MHz	Pass	PK	2.3896G	60.96	74.00	-13.04	35.81	3	V	287	1.38	-
2402MHz	Pass	PK	2.4022G	93.05	Inf	-Inf	35.83	3	V	287	1.38	-
2402MHz	Pass	PK	4.804G	47.44	74.00	-26.56	5.05	3	V	0	1.50	-
2440MHz	Pass	AV	2.3816G	48.22	54.00	-5.78	35.80	3	H	137	3.62	-
2440MHz	Pass	AV	2.44G	94.41	Inf	-Inf	35.91	3	H	137	3.62	-
2440MHz	Pass	AV	2.4992G	48.56	54.00	-5.44	36.03	3	H	137	3.62	-
2440MHz	Pass	PK	2.3796G	60.03	74.00	-13.97	35.79	3	H	137	3.62	-
2440MHz	Pass	PK	2.4404G	95.77	Inf	-Inf	35.91	3	H	137	3.62	-
2440MHz	Pass	PK	2.4944G	60.27	74.00	-13.73	36.02	3	H	137	3.62	-
2440MHz	Pass	AV	2.39G	48.03	54.00	-5.97	35.81	3	V	322	3.54	-
2440MHz	Pass	AV	2.44G	94.95	Inf	-Inf	35.91	3	V	322	3.54	-
2440MHz	Pass	AV	2.4996G	48.93	54.00	-5.07	36.03	3	V	322	3.54	-
2440MHz	Pass	PK	2.3888G	59.58	74.00	-14.42	35.81	3	V	322	3.54	-
2440MHz	Pass	PK	2.4396G	96.56	Inf	-Inf	35.91	3	V	322	3.54	-
2440MHz	Pass	PK	2.4844G	59.87	74.00	-14.13	36.00	3	V	322	3.54	-
2440MHz	Pass	AV	4.88G	41.11	54.00	-12.89	5.07	3	H	167	1.96	-
2440MHz	Pass	PK	4.88G	52.54	74.00	-21.46	5.07	3	H	167	1.96	-
2440MHz	Pass	AV	4.88G	33.76	54.00	-20.24	5.07	3	V	0	1.50	-
2440MHz	Pass	PK	4.88G	47.59	74.00	-26.41	5.07	3	V	0	1.50	-
2480MHz	Pass	AV	2.48G	93.28	Inf	-Inf	35.99	3	H	23	1.28	-
2480MHz	Pass	AV	2.4982G	48.66	54.00	-5.34	36.03	3	H	23	1.28	-
2480MHz	Pass	AV	4.96G	38.23	54.00	-15.77	5.10	3	H	160	1.99	-
2480MHz	Pass	PK	2.4798G	94.70	Inf	-Inf	35.99	3	H	23	1.28	-
2480MHz	Pass	PK	2.4912G	60.37	74.00	-13.63	36.01	3	H	23	1.28	-
2480MHz	Pass	PK	4.96G	50.53	74.00	-23.47	5.10	3	H	160	1.99	-
2480MHz	Pass	AV	2.48G	89.39	Inf	-Inf	35.99	3	V	190	1.94	-
2480MHz	Pass	AV	2.496G	48.85	54.00	-5.15	36.02	3	V	190	1.94	-
2480MHz	Pass	AV	4.96G	35.28	54.00	-18.72	5.10	3	V	0	1.50	-
2480MHz	Pass	PK	2.4798G	90.88	Inf	-Inf	35.99	3	V	190	1.94	-
2480MHz	Pass	PK	2.4912G	60.96	74.00	-13.04	36.01	3	V	190	1.94	-
2480MHz	Pass	PK	4.96G	47.47	74.00	-26.53	5.10	3	V	0	1.50	-

BT-LE(1Mbps)

2402MHz_TX

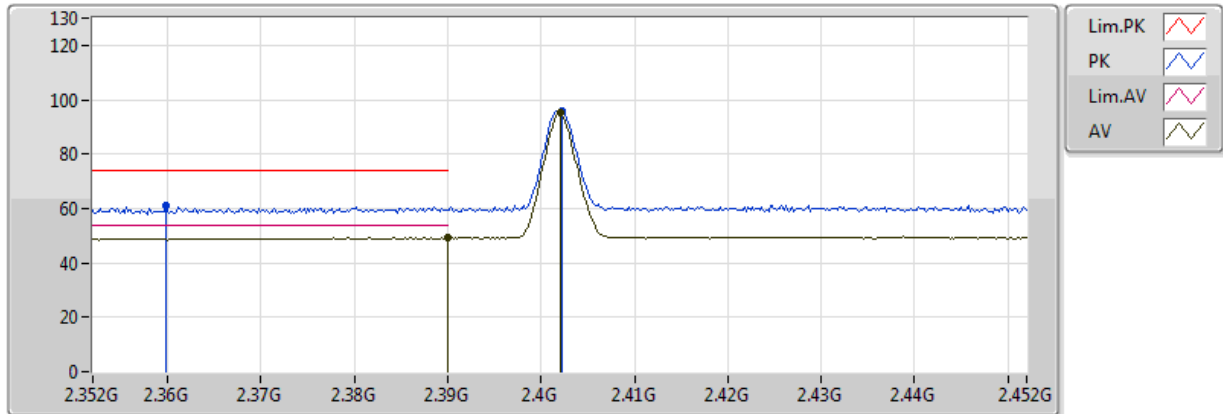


EUT= Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3848G	49.42	54.00	-4.58	35.80	3	V	287	1.38	-
AV	2.402G	92.25	Inf	-Inf	35.83	3	V	287	1.38	-
PK	2.3896G	60.96	74.00	-13.04	35.81	3	V	287	1.38	-
PK	2.4022G	93.05	Inf	-Inf	35.83	3	V	287	1.38	-

BT-LE(1Mbps)

2402MHz_TX

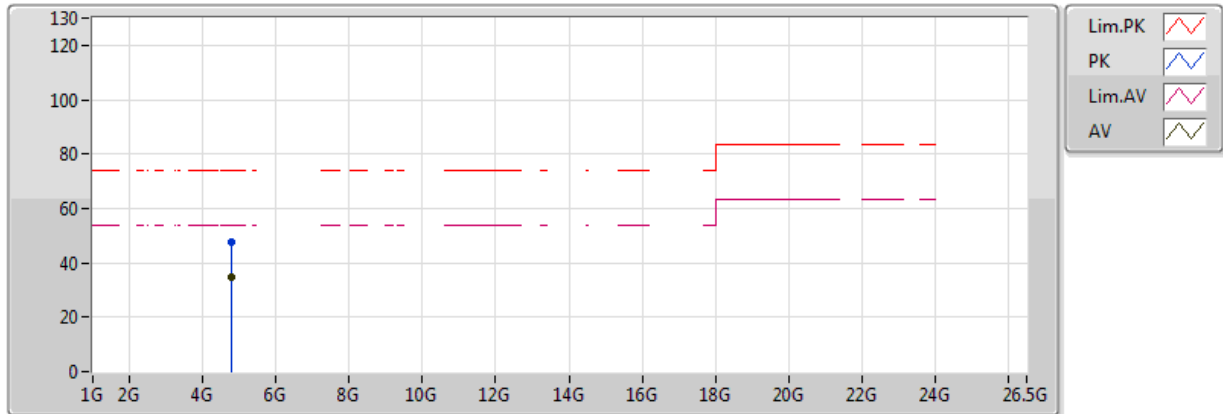


EUT= Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	49.26	54.00	-4.74	35.81	3	H	21	1.10	-
AV	2.402G	95.02	Inf	-Inf	35.83	3	H	21	1.10	-
PK	2.3598G	60.94	74.00	-13.06	35.75	3	H	21	1.10	-
PK	2.4022G	95.79	Inf	-Inf	35.83	3	H	21	1.10	-

BT-LE(1Mbps)

2402MHz_TX

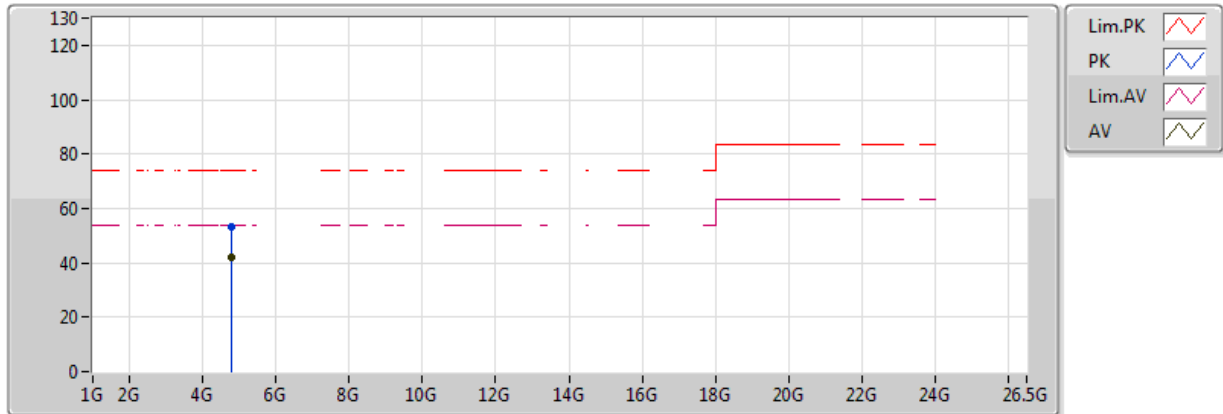


EUT= Z axis

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	34.65	54.00	-19.35	5.05	3	V	0	1.50	-
PK	4.804G	47.44	74.00	-26.56	5.05	3	V	0	1.50	-

BT-LE(1Mbps)

2402MHz_TX

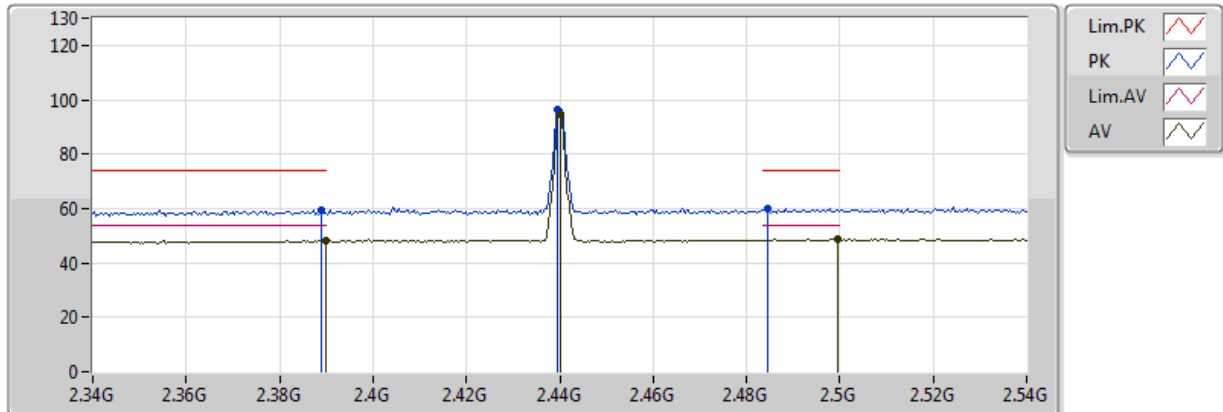


EUT= Z axis

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	42.14	54.00	-11.86	5.05	3	H	159	1.99	-
PK	4.804G	53.51	74.00	-20.49	5.05	3	H	159	1.99	-

BT-LE(1Mbps)

2440MHz_TX

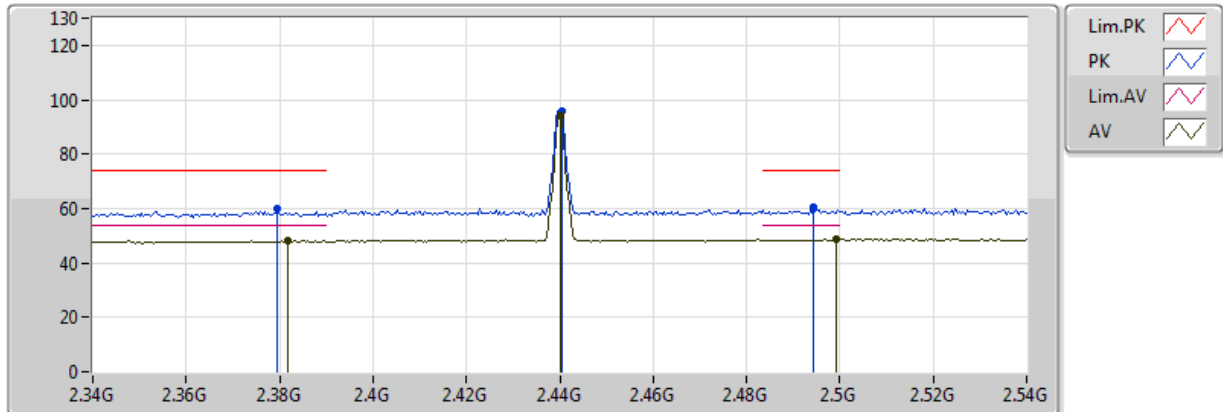


EUT= Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	48.03	54.00	-5.97	35.81	3	V	322	3.54	-
AV	2.44G	94.95	Inf	-Inf	35.91	3	V	322	3.54	-
AV	2.4996G	48.93	54.00	-5.07	36.03	3	V	322	3.54	-
PK	2.3888G	59.58	74.00	-14.42	35.81	3	V	322	3.54	-
PK	2.4396G	96.56	Inf	-Inf	35.91	3	V	322	3.54	-
PK	2.4844G	59.87	74.00	-14.13	36.00	3	V	322	3.54	-

BT-LE(1Mbps)

2440MHz_TX

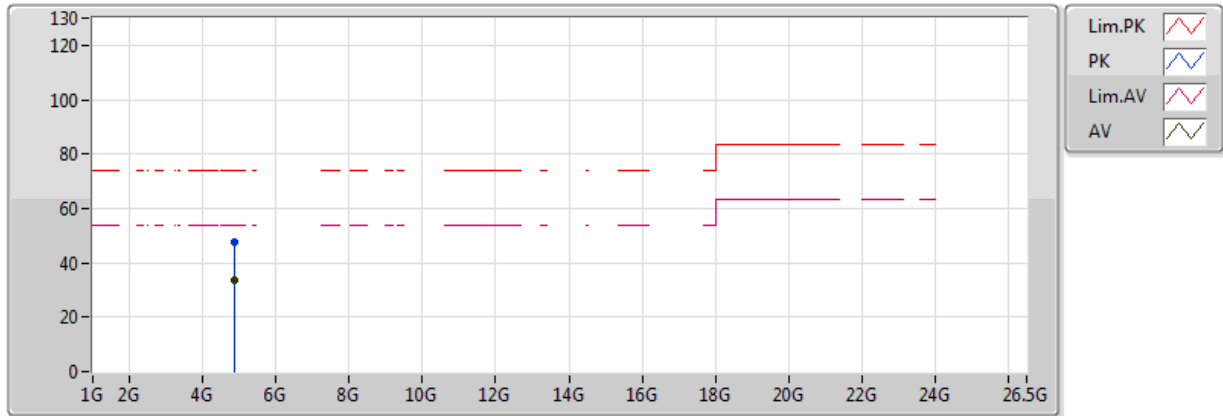


EUT= Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.44G	94.41	Inf	-Inf	35.91	3	H	137	3.62	-
AV	2.3816G	48.22	54.00	-5.78	35.80	3	H	137	3.62	-
AV	2.4992G	48.56	54.00	-5.44	36.03	3	H	137	3.62	-
PK	2.4404G	95.77	Inf	-Inf	35.91	3	H	137	3.62	-
PK	2.3796G	60.03	74.00	-13.97	35.79	3	H	137	3.62	-
PK	2.4944G	60.27	74.00	-13.73	36.02	3	H	137	3.62	-

BT-LE(1Mbps)

2440MHz_TX

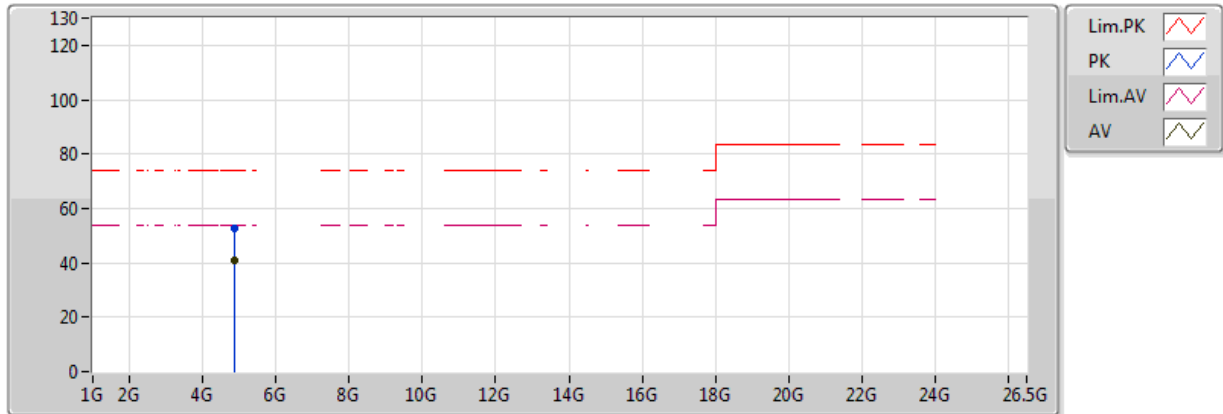


EUT= Z axis

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	33.76	54.00	-20.24	5.07	3	V	0	1.50	-
PK	4.88G	47.59	74.00	-26.41	5.07	3	V	0	1.50	-

BT-LE(1Mbps)

2440MHz_TX

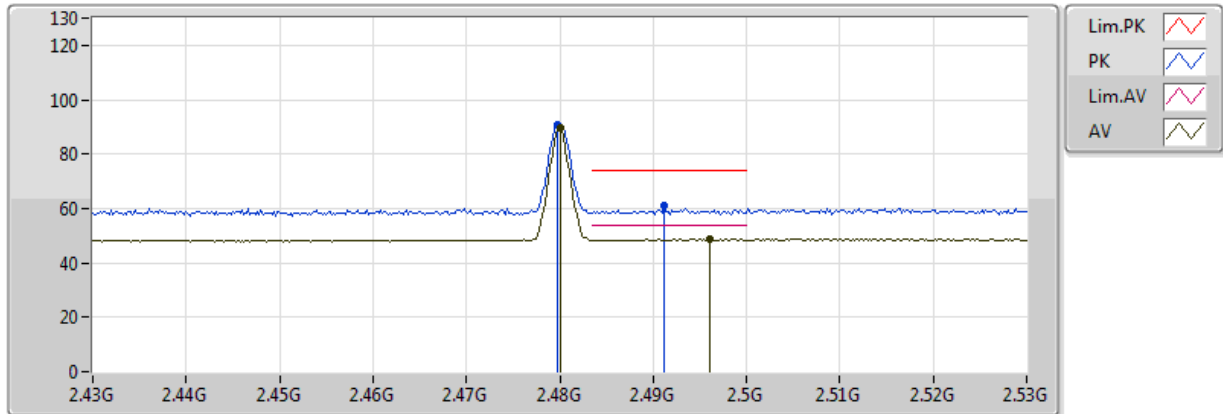


EUT= Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.88G	41.11	54.00	-12.89	5.07	3	H	167	1.96	-
PK	4.88G	52.54	74.00	-21.46	5.07	3	H	167	1.96	-

BT-LE(1Mbps)

2480MHz_TX

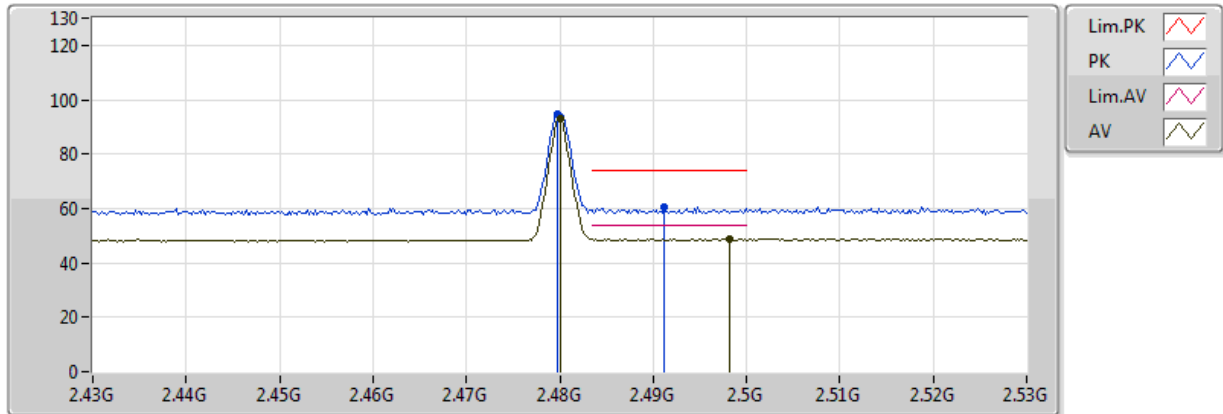


EUT= Z axis

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	89.39	Inf	-Inf	35.99	3	V	190	1.94	-
AV	2.496G	48.85	54.00	-5.15	36.02	3	V	190	1.94	-
PK	2.4798G	90.88	Inf	-Inf	35.99	3	V	190	1.94	-
PK	2.4912G	60.96	74.00	-13.04	36.01	3	V	190	1.94	-

BT-LE(1Mbps)

2480MHz_TX

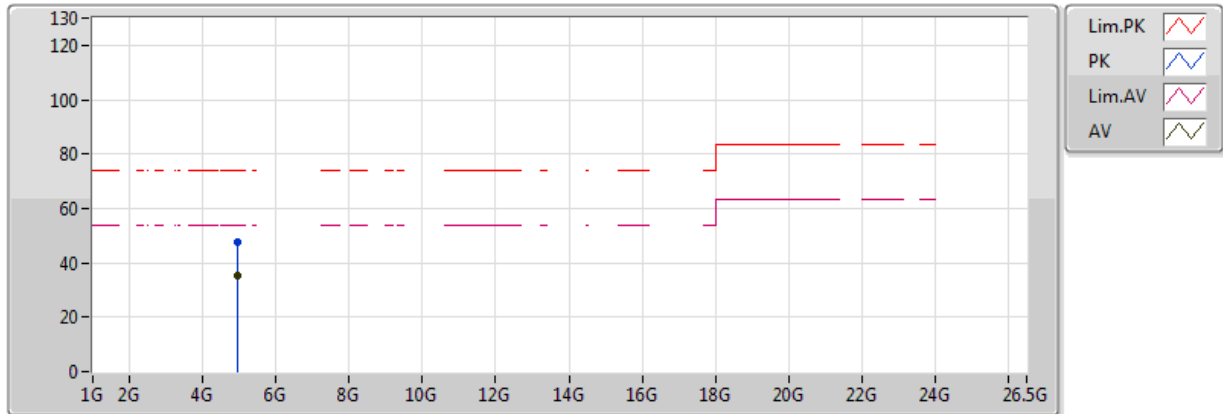


EUT= Z axis

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	93.28	Inf	-Inf	35.99	3	H	23	1.28	-
AV	2.4982G	48.66	54.00	-5.34	36.03	3	H	23	1.28	-
PK	2.4798G	94.70	Inf	-Inf	35.99	3	H	23	1.28	-
PK	2.4912G	60.37	74.00	-13.63	36.01	3	H	23	1.28	-

BT-LE(1Mbps)

2480MHz_TX

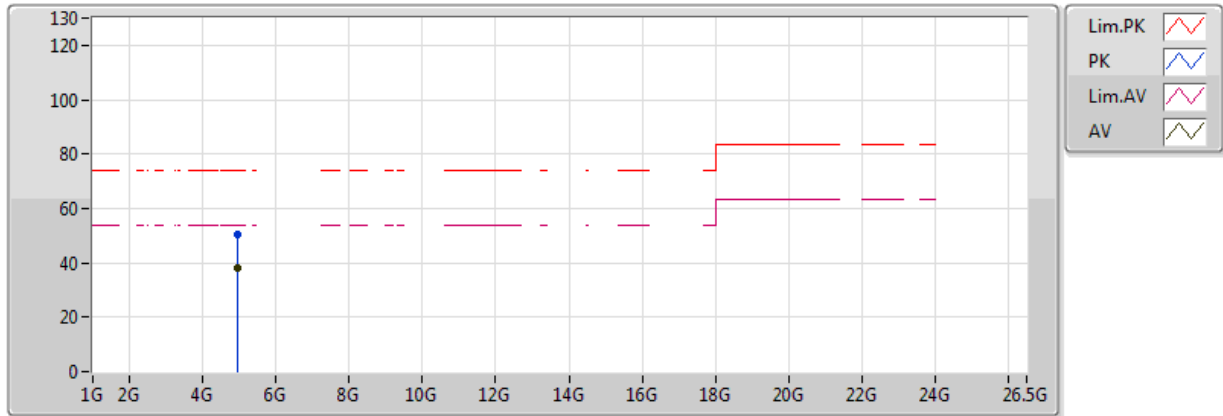


EUT= Z axis

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	35.28	54.00	-18.72	5.10	3	V	0	1.50	-
PK	4.96G	47.47	74.00	-26.53	5.10	3	V	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	4.96G	38.23	54.00	-15.77	5.10	3	H	160	1.99	-
PK	4.96G	50.53	74.00	-23.47	5.10	3	H	160	1.99	-