



FCC Test Report

Equipment : Internet of Things Gateway
Brand Name : DELL
Model No. : N03G
FCC ID : E2K-N03G
Standard : 47 CFR FCC Part 15.247
Frequency : 2400 MHz – 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant / Manufacturer : Dell Inc.
One Dell Way, Round Rock, Texas 78682, USA

The product sample received on Jan. 26, 2017 and completely tested on Mar. 22, 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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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: >20 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
FR712529AL	Rev. 01	Initial issue of report	May 11, 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.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	taoglas	TS.07.2113B	Monopole	SMA	1.3

Note: 1: 802.11b/g/n and BT only includes 1TX and Port1 for emission.

1.1.3 EUT Information

Identify EUT	
SW / HW	N/A
Operational Condition	
EUT Power Type	From AC Adapter
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-LTE(1Mbps)	0.303	5.186	379.375u	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. 553509 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	Gary	21.5°C / 62%	06/Mar/2017
Radiated	03CH02-HY	Jeff	22.2°C / 51.8%	18/Mar/2017
AC Conduction	CO04-HY	Bear	20°C / 67%	22/Mar/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	Dos
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Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	14
2440MHz	12
2480MHz	13

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

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		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Zigbee+BT
2	Zigbee+WiFi

Refer to Sporton Test Report No.: FA712529 for Co-location RF Exposure Evaluation.

2.4 Accessories

Accessories				
AC Adapter 1 (US Plug)	Brand Name	DELL	Model Name	DA65NM130
	Manufacturer	DELTA		
	Power Rating	I/P: 100- 240 Vac, 1.7 A, O/P: 19.5 Vdc, 3.34 A		
	Power Cord	0.9 meter, non-shielded cable, w/o ferrite core 1.8 meter, non-shielded cable, w/o ferrite core(DC output cable) 0.12 meter, non-shielded cable, w/o ferrite core(DC to DC cable)		

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

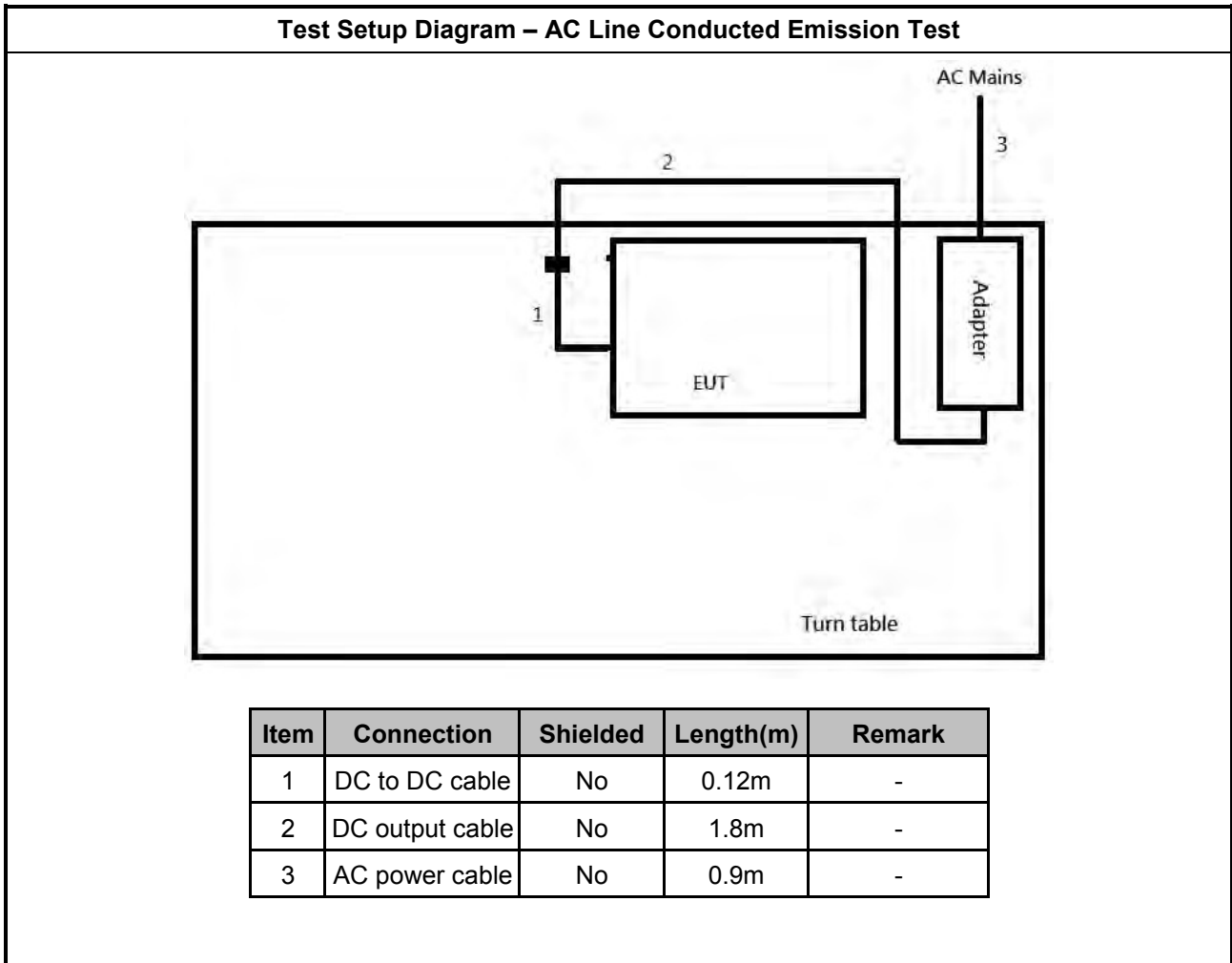
2.5 Support Equipment

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

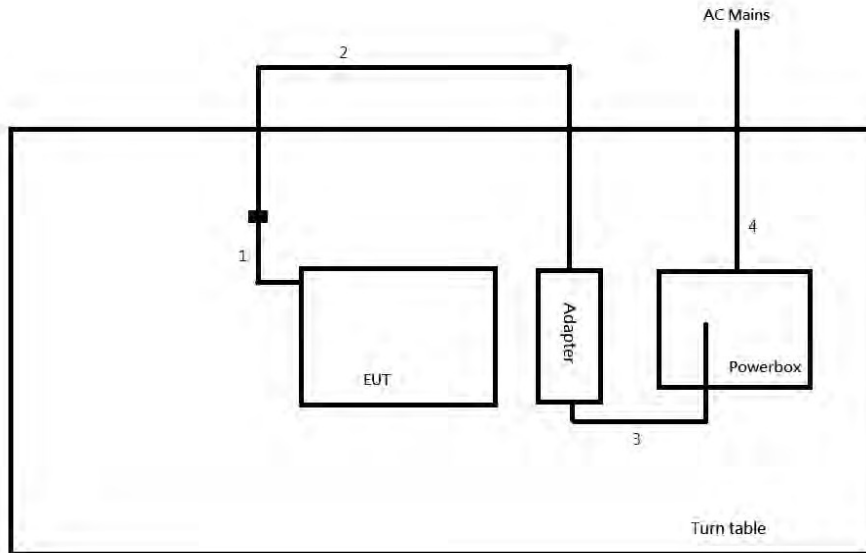
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	USB Dongle	Kingston	DTI/1GB	DOC
2	USB Dongle	Kingston	TS4G IE370	DOC

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	USB Dongle	Kingston	DTI/1GB	DOC
2	USB Dongle	Kingston	TS4G IE370	DOC

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	DC to DC cable	No	0.12m	-
2	DC output cable	No	1.8m	-
3	AC power cable	No	0.9m	-
4	AC power cable	No	1.8m	-

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.

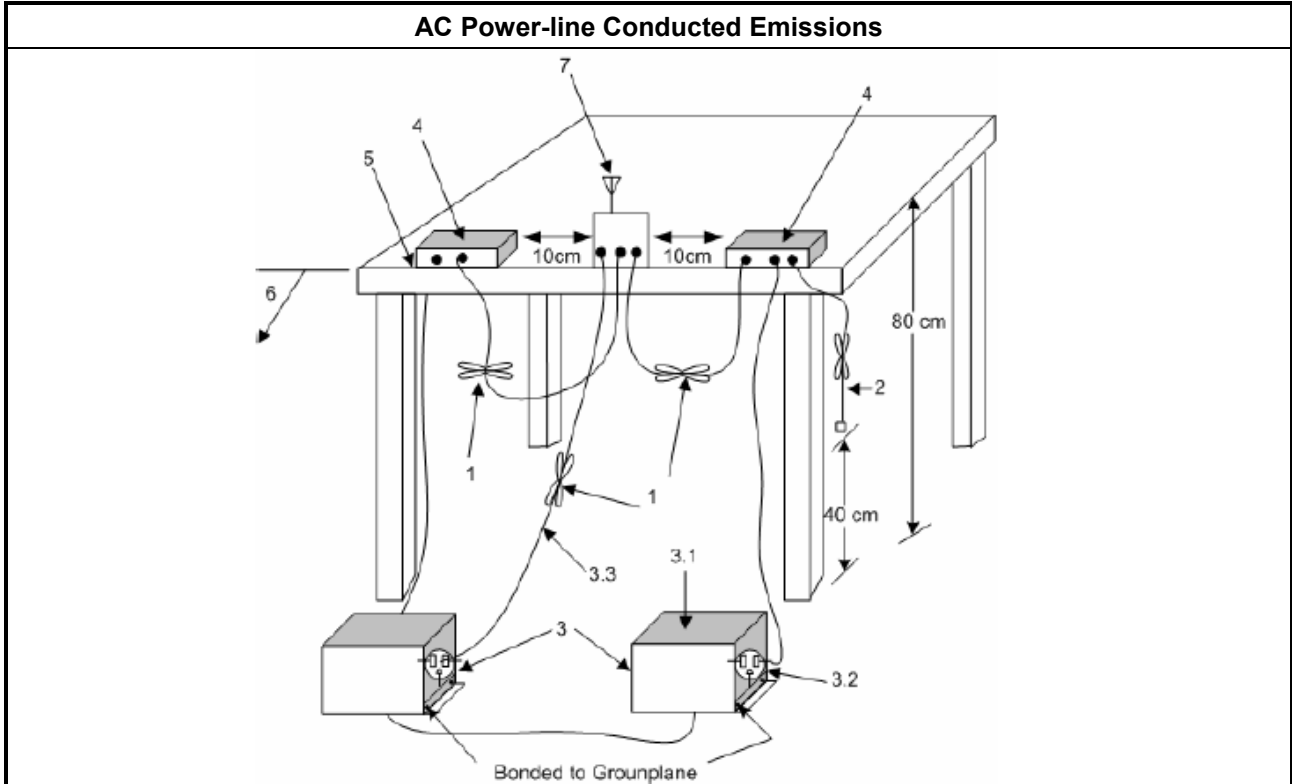
3.1.2 Measuring Instruments

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. 	

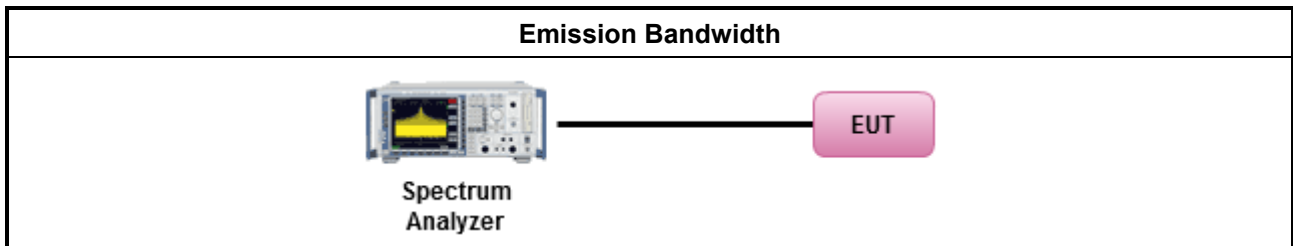
3.2.2 Measuring Instruments

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.

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 - 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:	
	<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 - 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>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>	

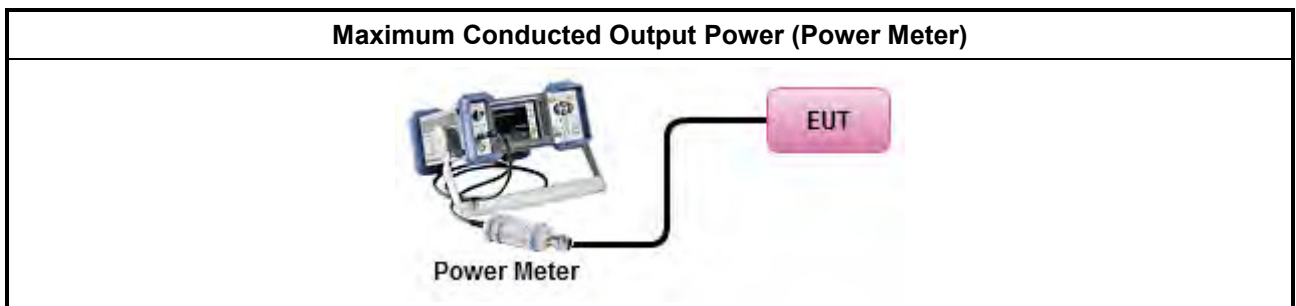
3.3.2 Measuring Instruments

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

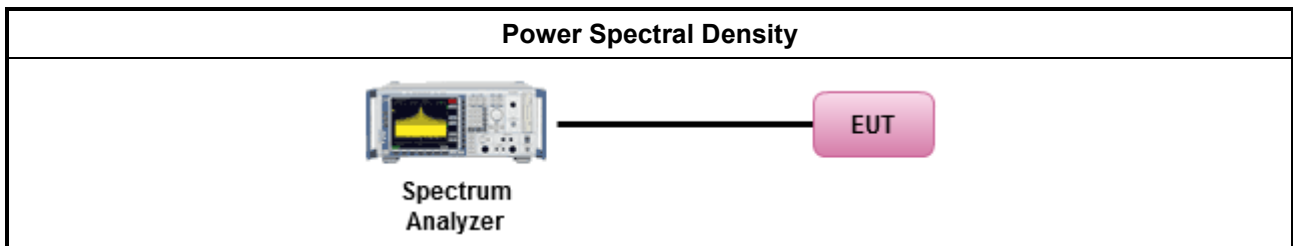
3.4.2 Measuring Instruments

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: 	
<input type="checkbox"/>	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.

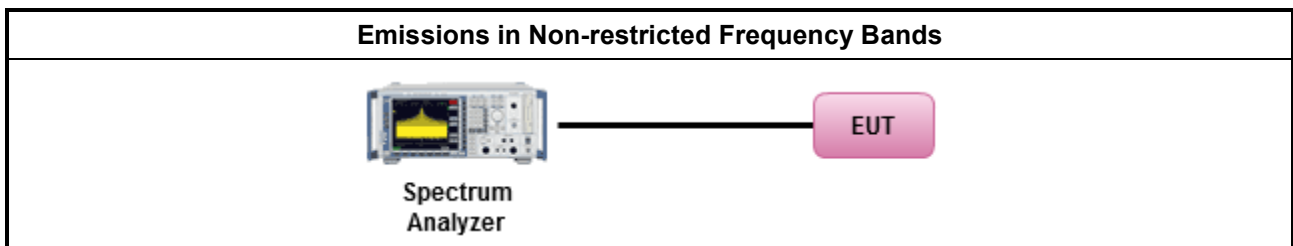
3.5.2 Measuring Instruments

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.

3.6.2 Measuring Instruments

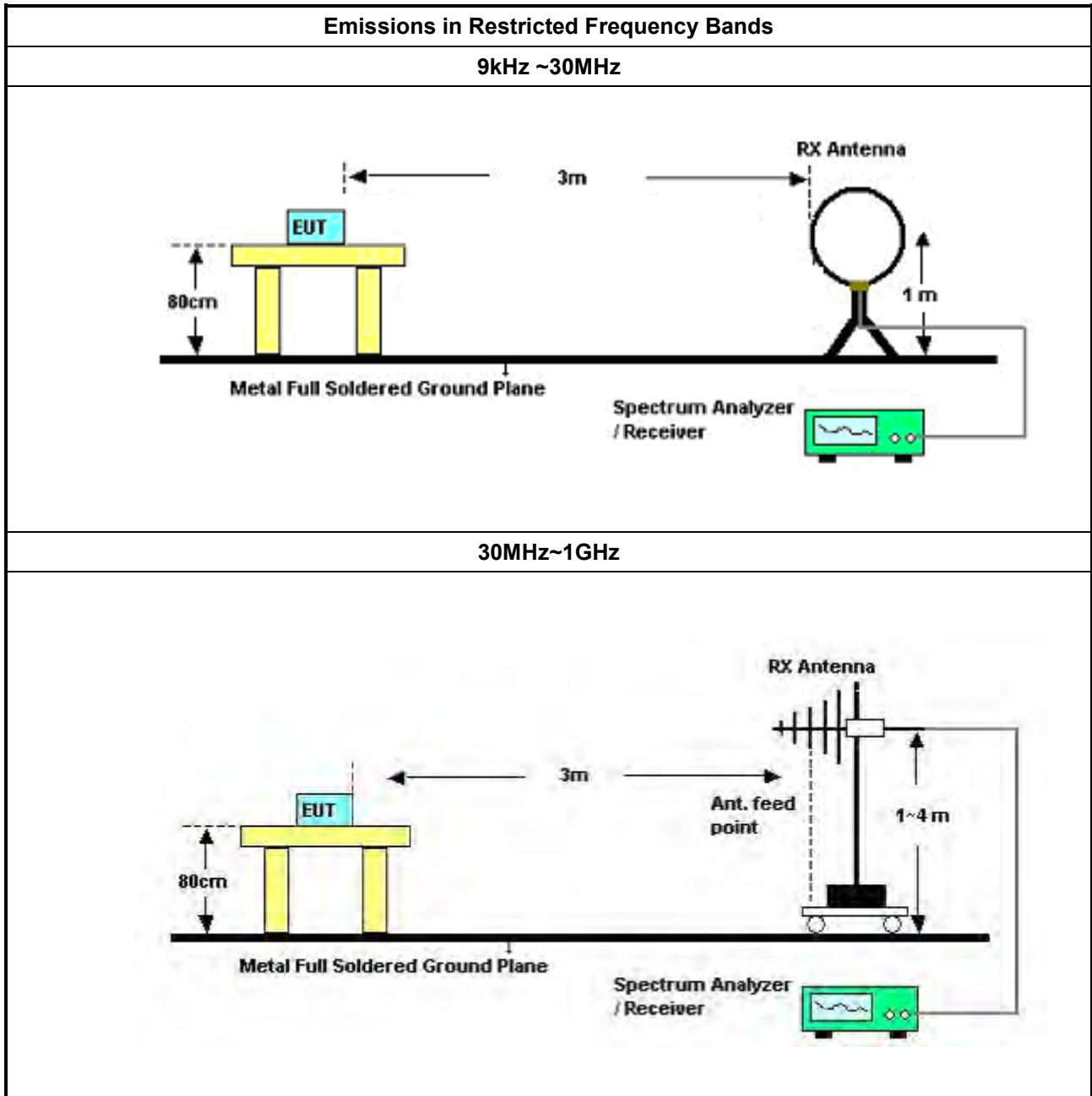
Refer a test equipment and calibration data table in this test report.

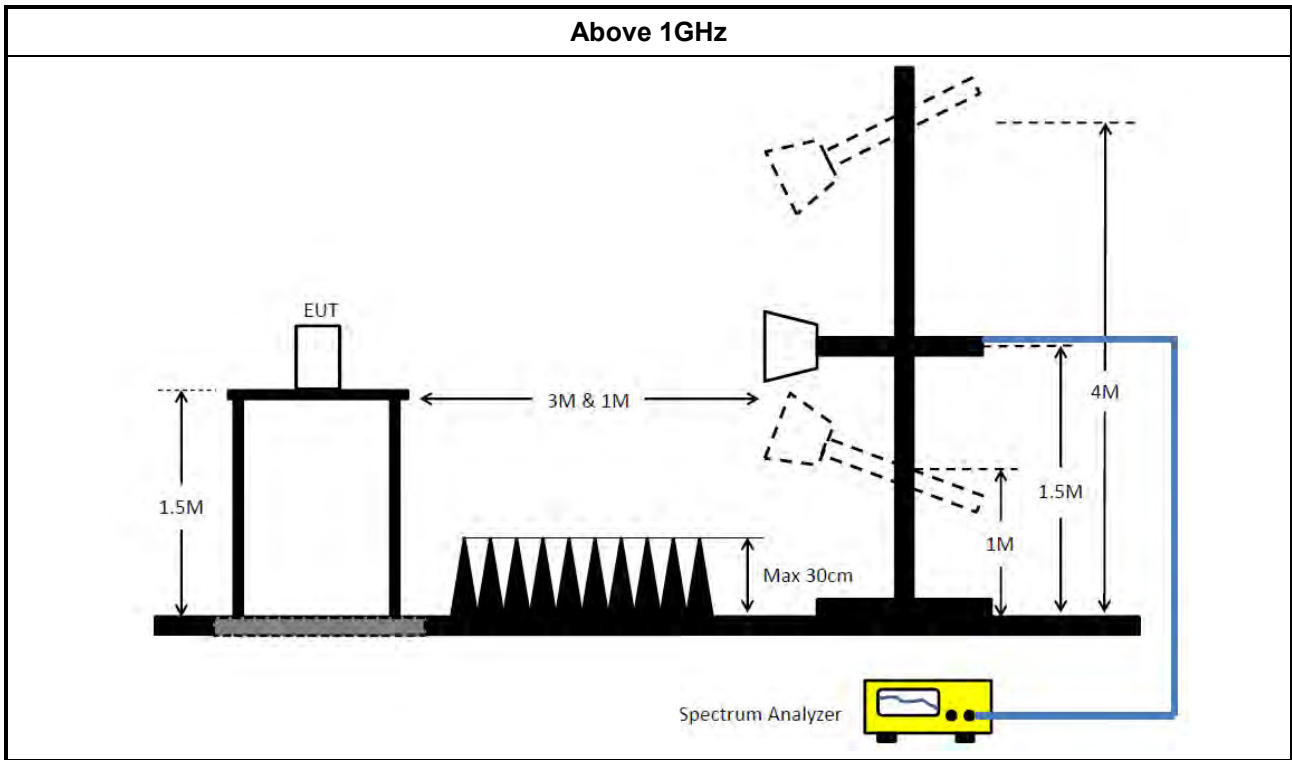


3.6.3 Test Procedures

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)

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	15/Apr/2016	14/Apr/2017
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	15/Nov/2016	14/Nov/2017
RF Cable-CON	HUBER+SUHNER	RG213/U	0761183202000 1	9kHz ~ 30MHz	24/Oct/2016	23/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	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 01543	1GHz-18GHz	22/Apr/2016	21/Apr/2017
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170339	15GHz-40GHz	10/Mar/2016	09/Mar/2018
Bilog Antenna	SCHAFFNER	CBL6112B	2723	30MHz-1GHz	01/Oct/2016	30/Sep/2017
Amplifier	MITEQ	JS44-18004000 -33-8P	1840917	18GHz-40GHz	01/Jun/2015	31/May/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

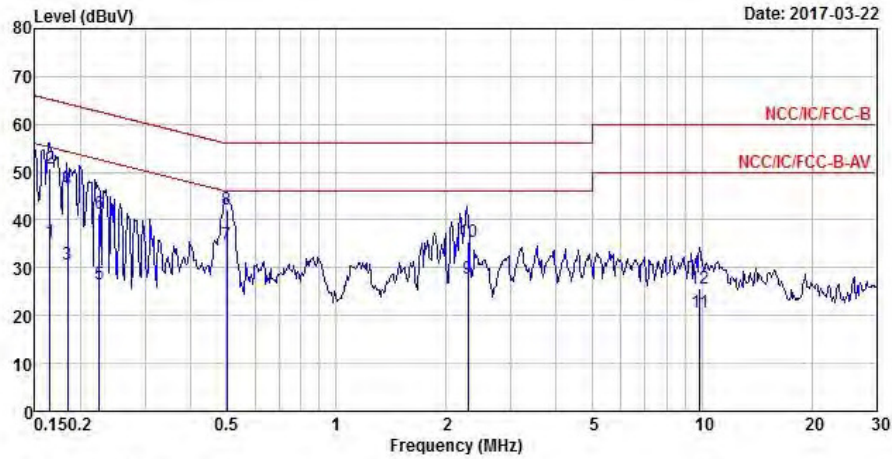
Instrument for Conducted Test

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_10 4	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_10 4	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_10 4	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017



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	0.17	35.43	-19.78	55.21	25.56	9.62	0.25	Average
2	0.17	50.82	-14.39	65.21	40.95	9.62	0.25	QP
3	0.18	30.63	-23.66	54.29	20.70	9.65	0.28	Average
4	0.18	46.49	-17.80	64.29	36.56	9.65	0.28	QP
5	0.22	26.63	-26.00	52.63	16.70	9.66	0.27	Average
6	0.22	41.46	-21.17	62.63	31.53	9.66	0.27	QP
7 MAX	0.50	34.89	-11.11	46.00	25.17	9.62	0.10	Average
8	0.50	42.35	-13.65	56.00	32.63	9.62	0.10	QP
9	2.29	27.72	-18.28	46.00	17.80	9.66	0.26	Average
10	2.29	35.37	-20.63	56.00	25.45	9.66	0.26	QP
11	9.87	20.57	-29.43	50.00	10.63	9.74	0.20	Average
12	9.87	25.77	-34.23	60.00	15.83	9.74	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																																																																																																																																	
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<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit Line</th> <th>Read Level</th> <th>LISN Factor</th> <th>Cable Loss</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB</th> <th>dBuV</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>0.16</td><td>34.23</td><td>-21.37</td><td>55.60</td><td>24.34</td><td>9.66</td><td>0.23</td><td>Average</td></tr> <tr><td>2</td><td>0.16</td><td>50.36</td><td>-15.24</td><td>65.60</td><td>40.47</td><td>9.66</td><td>0.23</td><td>QP</td></tr> <tr><td>3</td><td>0.20</td><td>28.32</td><td>-25.09</td><td>53.41</td><td>18.38</td><td>9.65</td><td>0.29</td><td>Average</td></tr> <tr><td>4</td><td>0.20</td><td>44.31</td><td>-19.10</td><td>63.41</td><td>34.37</td><td>9.65</td><td>0.29</td><td>QP</td></tr> <tr><td>5 MAX</td><td>0.50</td><td>34.77</td><td>-11.23</td><td>46.00</td><td>25.00</td><td>9.67</td><td>0.10</td><td>Average</td></tr> <tr><td>6</td><td>0.50</td><td>42.09</td><td>-13.91</td><td>56.00</td><td>32.32</td><td>9.67</td><td>0.10</td><td>QP</td></tr> <tr><td>7</td><td>0.88</td><td>21.60</td><td>-24.40</td><td>46.00</td><td>11.86</td><td>9.64</td><td>0.10</td><td>Average</td></tr> <tr><td>8</td><td>0.88</td><td>27.75</td><td>-28.25</td><td>56.00</td><td>18.01</td><td>9.64</td><td>0.10</td><td>QP</td></tr> <tr><td>9</td><td>2.24</td><td>23.38</td><td>-22.62</td><td>46.00</td><td>13.32</td><td>9.79</td><td>0.27</td><td>Average</td></tr> <tr><td>10</td><td>2.24</td><td>28.15</td><td>-27.85</td><td>56.00</td><td>18.09</td><td>9.79</td><td>0.27</td><td>QP</td></tr> <tr><td>11</td><td>9.90</td><td>24.44</td><td>-25.56</td><td>50.00</td><td>14.50</td><td>9.74</td><td>0.20</td><td>Average</td></tr> <tr><td>12</td><td>9.90</td><td>29.68</td><td>-30.32</td><td>60.00</td><td>19.74</td><td>9.74</td><td>0.20</td><td>QP</td></tr> </tbody> </table>					Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark		MHz	dBuV	dB	dBuV	dBuV	dB	dB		1	0.16	34.23	-21.37	55.60	24.34	9.66	0.23	Average	2	0.16	50.36	-15.24	65.60	40.47	9.66	0.23	QP	3	0.20	28.32	-25.09	53.41	18.38	9.65	0.29	Average	4	0.20	44.31	-19.10	63.41	34.37	9.65	0.29	QP	5 MAX	0.50	34.77	-11.23	46.00	25.00	9.67	0.10	Average	6	0.50	42.09	-13.91	56.00	32.32	9.67	0.10	QP	7	0.88	21.60	-24.40	46.00	11.86	9.64	0.10	Average	8	0.88	27.75	-28.25	56.00	18.01	9.64	0.10	QP	9	2.24	23.38	-22.62	46.00	13.32	9.79	0.27	Average	10	2.24	28.15	-27.85	56.00	18.09	9.79	0.27	QP	11	9.90	24.44	-25.56	50.00	14.50	9.74	0.20	Average	12	9.90	29.68	-30.32	60.00	19.74	9.74	0.20	QP
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Summary

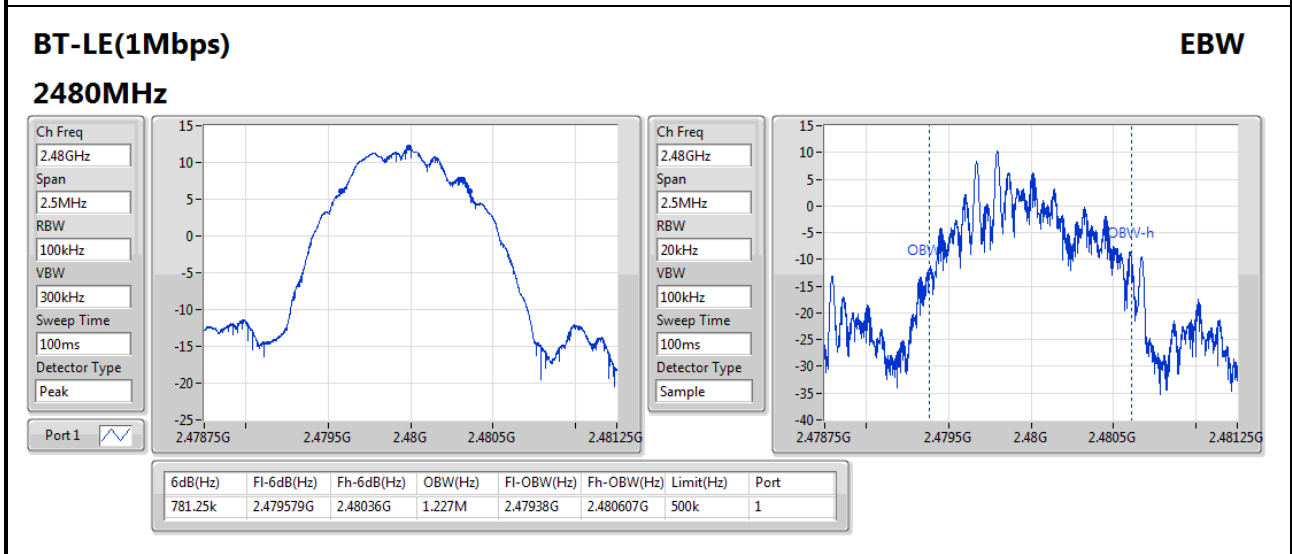
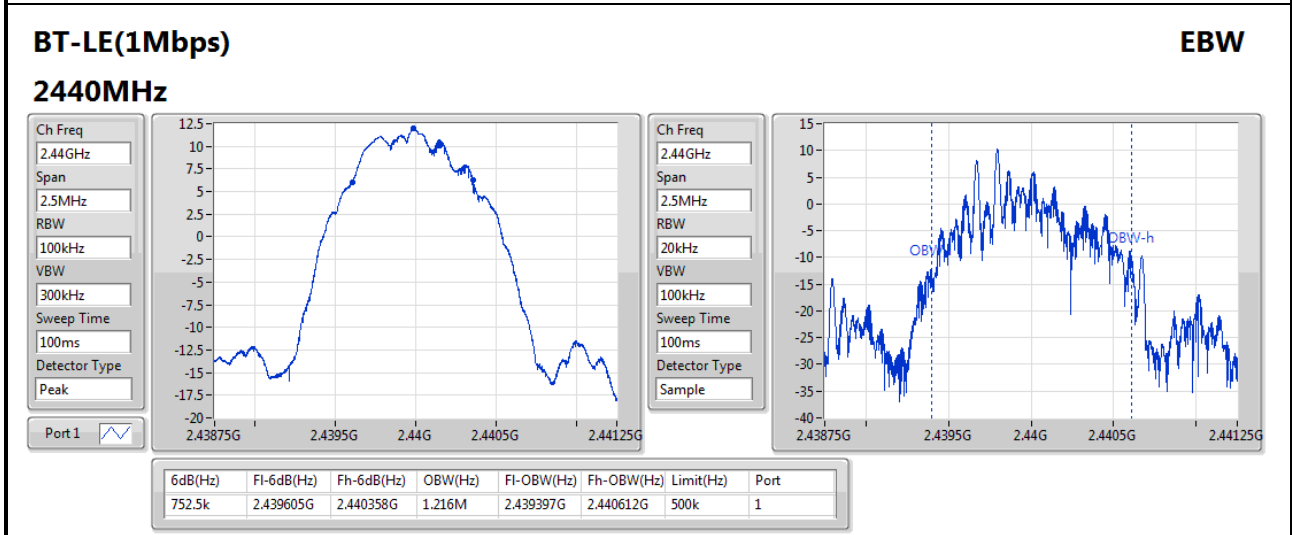
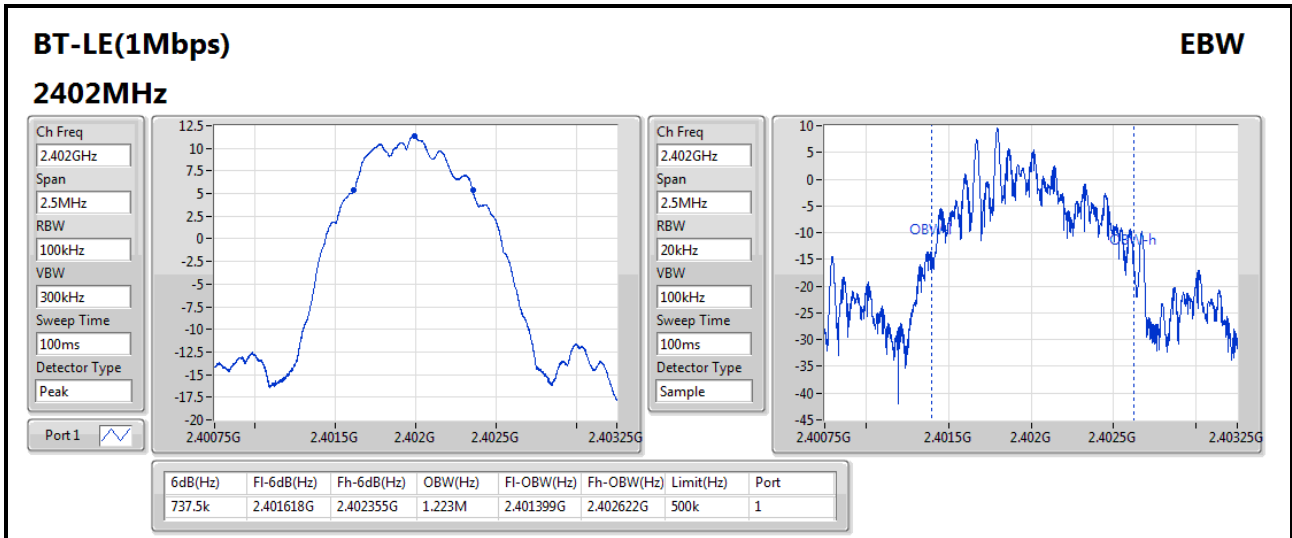
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-	-
2.4-2.4835GHz	781.25k	1.227M	1M23F1D	737.5k	1.216M

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	737.5k	1.223M
2440MHz	Pass	500k	752.5k	1.216M
2480MHz	Pass	500k	781.25k	1.227M

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





Summary

Mode	Power (dBm)	Power (W)
BT-LE(1Mbps)	-	-
2.4-2.4835GHz	14.07	0.02553

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.30	13.60	30.00
2440MHz	Pass	1.30	14.07	30.00
2480MHz	Pass	1.30	13.01	30.00



Summary

Mode	Power	Power
	(dBm)	(W)
BT-LE(1Mbps)	-	-
2.4-2.4835GHz	12.83	0.01919

Result

Mode	Result	Gain	Power	Power Limit
		(dBi)	(dBm)	(dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.30	12.18	30.00
2440MHz	Pass	1.30	12.83	30.00
2480MHz	Pass	1.30	12.06	30.00



Summary

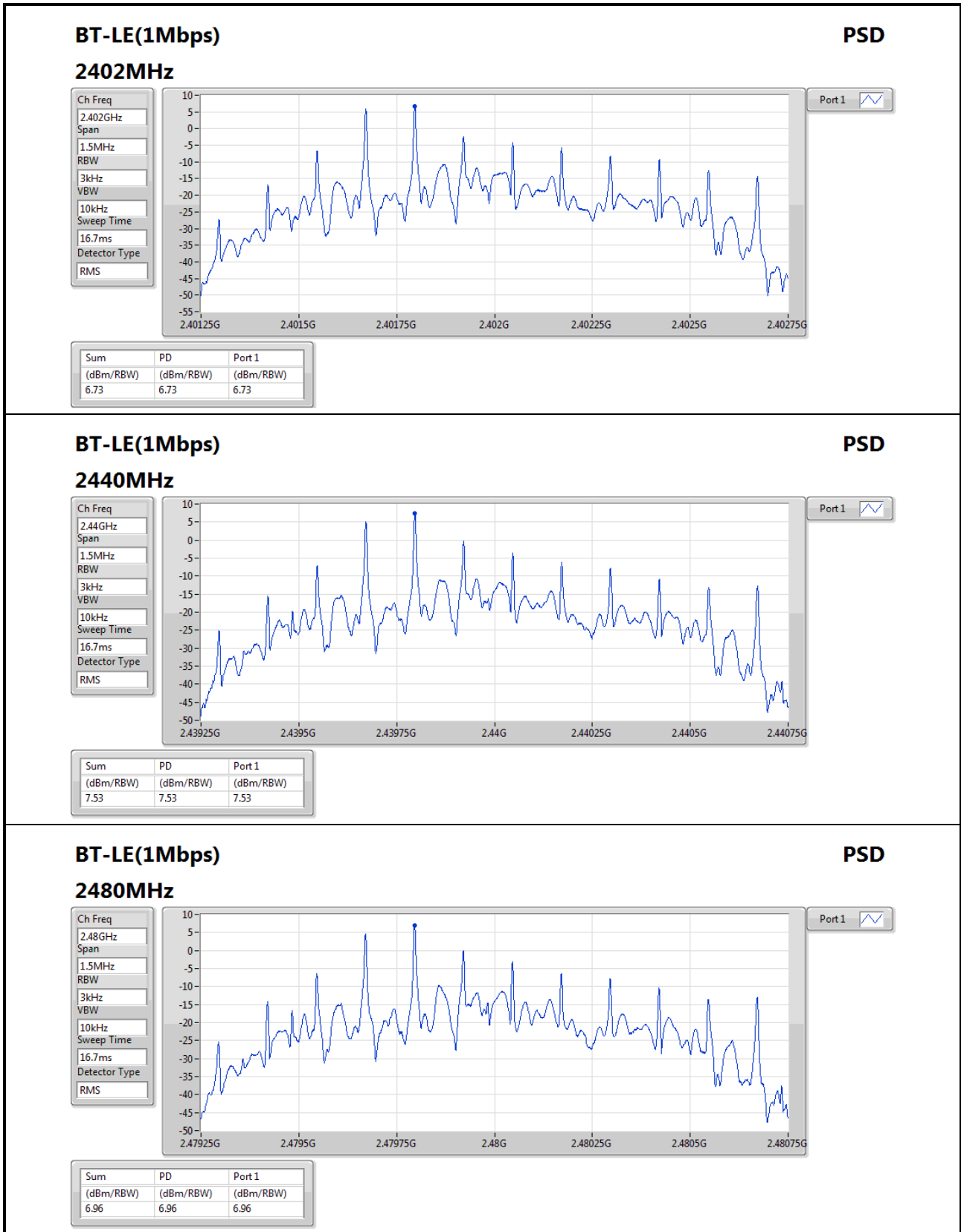
Mode	PD (dBm/RBW)
BT-LE(1Mbps)	-
2.4-2.4835GHz	7.53

RBW=3kHz.

Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.30	6.73	8.00
2440MHz	Pass	1.30	7.53	8.00
2480MHz	Pass	1.30	6.96	8.00

RBW=3kHz.



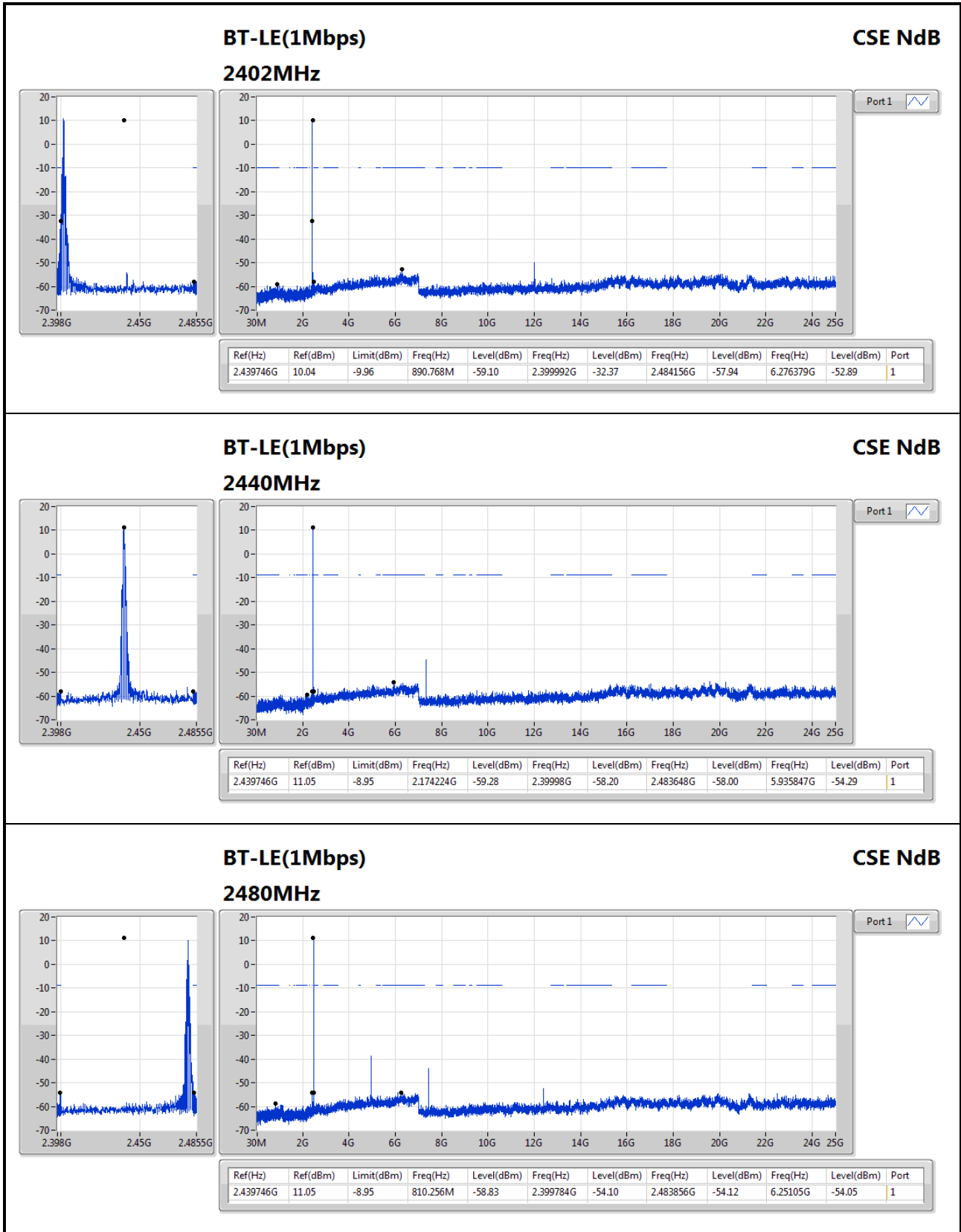


Summary

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	2.439746G	10.04	-9.96	890.768M	-59.10	2.399992G	-32.37	2.484156G	-57.94	6.276379G	-52.89	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	2.439746G	10.04	-9.96	890.768M	-59.10	2.399992G	-32.37	2.484156G	-57.94	6.276379G	-52.89	1
2440MHz	Pass	2.439746G	11.05	-8.95	2.174224G	-59.28	2.39998G	-58.20	2.483648G	-58.00	5.935847G	-54.29	1
2480MHz	Pass	2.439746G	11.05	-8.95	810.256M	-58.83	2.399784G	-54.10	2.483856G	-54.12	6.25105G	-54.05	1





Summary

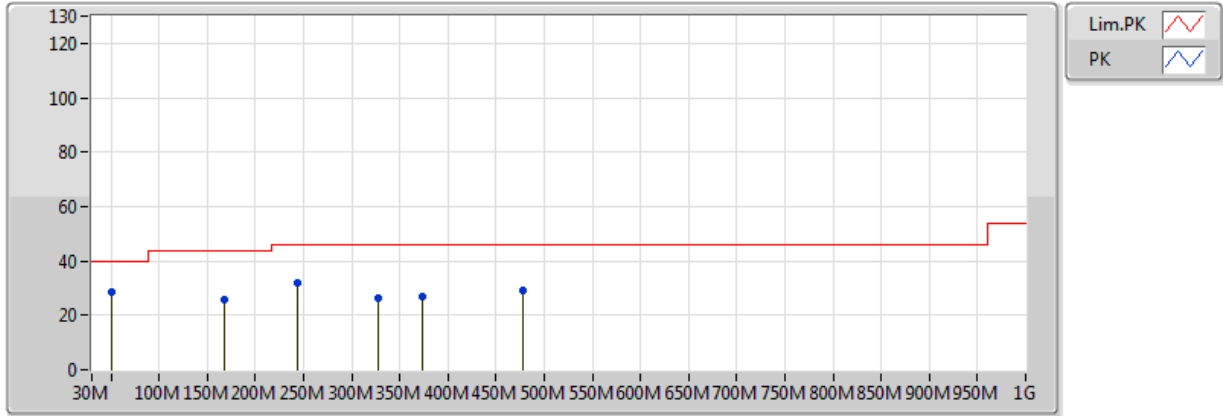
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	PK	51.34M	28.63	40.00	-11.37	-13.87	3	V	150	1.00	-



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	Pass	PK	142.52M	26.81	43.50	-16.69	-9.92	3	H	360	1.00	-
2440MHz	Pass	PK	167.74M	31.52	43.50	-11.98	-10.70	3	H	360	1.00	-
2440MHz	Pass	PK	241.46M	33.71	46.00	-12.29	-8.39	3	H	360	1.00	-
2440MHz	Pass	PK	324.88M	27.11	46.00	-18.89	-6.04	3	H	360	1.00	-
2440MHz	Pass	PK	361.74M	27.28	46.00	-18.72	-5.06	3	H	360	1.00	-
2440MHz	Pass	PK	377.26M	27.06	46.00	-18.94	-4.62	3	H	360	1.00	-
2440MHz	Pass	PK	51.34M	28.63	40.00	-11.37	-13.87	3	V	150	1.00	-
2440MHz	Pass	PK	167.74M	25.60	43.50	-17.90	-10.70	3	V	150	1.00	-
2440MHz	Pass	PK	243.4M	31.74	46.00	-14.26	-8.18	3	V	150	1.00	-
2440MHz	Pass	PK	326.82M	26.52	46.00	-19.48	-6.04	3	V	150	1.00	-
2440MHz	Pass	PK	373.38M	27.14	46.00	-18.86	-4.73	3	V	150	1.00	-
2440MHz	Pass	PK	478.14M	29.16	46.00	-16.84	-2.74	3	V	150	1.00	-

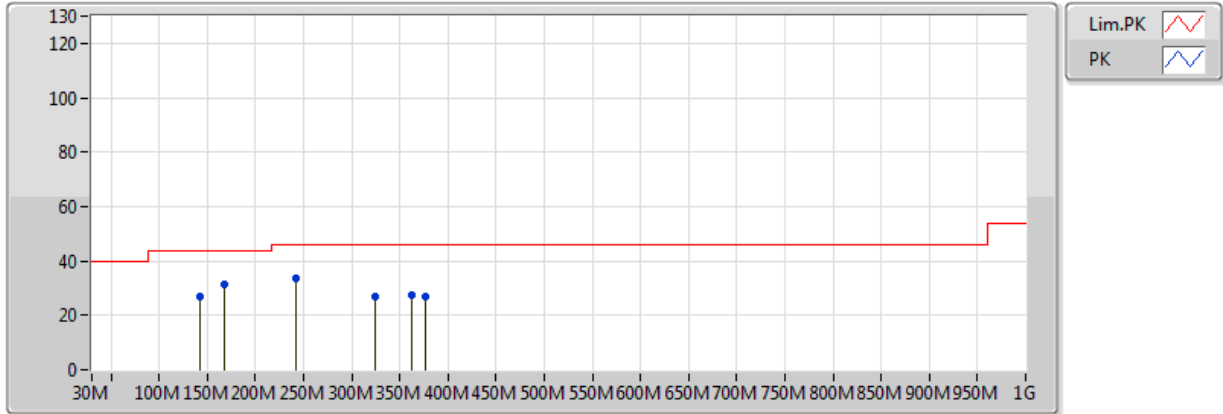
BT-LE(1Mbps)
2440MHz_Adapter



EUT = Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	51.34M	28.63	40.00	-11.37	-13.87	3	V	150	1.00	-
PK	167.74M	25.60	43.50	-17.90	-10.70	3	V	150	1.00	-
PK	243.4M	31.74	46.00	-14.26	-8.18	3	V	150	1.00	-
PK	326.82M	26.52	46.00	-19.48	-6.04	3	V	150	1.00	-
PK	373.38M	27.14	46.00	-18.86	-4.73	3	V	150	1.00	-
PK	478.14M	29.16	46.00	-16.84	-2.74	3	V	150	1.00	-

BT-LE(1Mbps)
2440MHz_Adapter



EUT = Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	142.52M	26.81	43.50	-16.69	-9.92	3	H	360	1.00	-
PK	167.74M	31.52	43.50	-11.98	-10.70	3	H	360	1.00	-
PK	241.46M	33.71	46.00	-12.29	-8.39	3	H	360	1.00	-
PK	324.88M	27.11	46.00	-18.89	-6.04	3	H	360	1.00	-
PK	361.74M	27.28	46.00	-18.72	-5.06	3	H	360	1.00	-
PK	377.26M	27.06	46.00	-18.94	-4.62	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	PK	2.483502G	69.14	74.00	-4.86	31.07	3	V	179	1.99	-

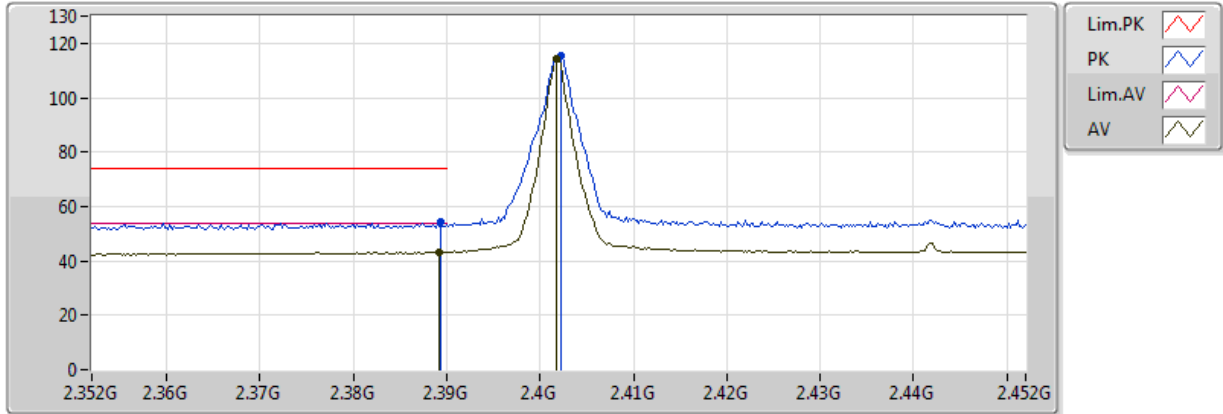


Result

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	2.3892G	43.16	54.00	-10.84	30.75	3	V	174	1.50	-
2402MHz	Pass	AV	2.4018G	114.39	Inf	-Inf	30.80	3	V	174	1.50	-
2402MHz	Pass	PK	2.3894G	54.14	74.00	-19.86	30.76	3	V	174	1.50	-
2402MHz	Pass	PK	2.4022G	115.27	Inf	-Inf	30.80	3	V	174	1.50	-
2402MHz	Pass	AV	4.804G	40.62	54.00	-13.38	1.98	3	V	345	1.95	-
2402MHz	Pass	PK	4.804G	54.45	74.00	-19.55	1.98	3	V	345	1.95	-
2402MHz	Pass	AV	4.804G	39.03	54.00	-14.97	1.98	3	H	306	1.77	-
2402MHz	Pass	PK	4.804G	52.10	74.00	-21.90	1.98	3	H	306	1.77	-
2440MHz	Pass	AV	2.3848G	43.01	54.00	-10.99	30.74	3	V	178	1.53	-
2440MHz	Pass	AV	2.4396G	115.29	Inf	-Inf	30.92	3	V	178	1.53	-
2440MHz	Pass	AV	2.4944G	43.67	54.00	-10.33	31.11	3	V	178	1.53	-
2440MHz	Pass	PK	2.3508G	53.88	74.00	-20.12	30.63	3	V	178	1.53	-
2440MHz	Pass	PK	2.44G	116.17	Inf	-Inf	30.93	3	V	178	1.53	-
2440MHz	Pass	PK	2.4968G	55.39	74.00	-18.61	31.12	3	V	178	1.53	-
2440MHz	Pass	AV	4.88G	39.50	54.00	-14.50	2.19	3	V	360	2.01	-
2440MHz	Pass	PK	4.88G	46.69	74.00	-27.31	2.19	3	V	360	2.01	-
2440MHz	Pass	AV	4.88G	33.47	54.00	-20.53	2.19	3	H	303	3.59	-
2440MHz	Pass	PK	4.88G	46.36	74.00	-27.64	2.19	3	H	303	3.59	-
2480MHz	Pass	AV	2.4798G	113.99	Inf	-Inf	31.06	3	V	179	1.99	-
2480MHz	Pass	AV	2.483502G	47.00	54.00	-7.00	31.07	3	V	179	1.99	-
2480MHz	Pass	PK	2.4796G	114.78	Inf	-Inf	31.06	3	V	179	1.99	-
2480MHz	Pass	PK	2.483502G	69.14	74.00	-4.86	31.07	3	V	179	1.99	-
2480MHz	Pass	AV	4.96G	45.23	54.00	-8.77	2.41	3	V	207	2.20	-
2480MHz	Pass	PK	4.96G	61.66	74.00	-12.34	2.41	3	V	207	2.20	-
2480MHz	Pass	AV	4.96G	34.18	54.00	-19.82	2.41	3	H	179	2.98	-
2480MHz	Pass	PK	4.96G	46.34	74.00	-27.66	2.41	3	H	179	2.98	-

BT-LE(1Mbps)

2402MHz_TX

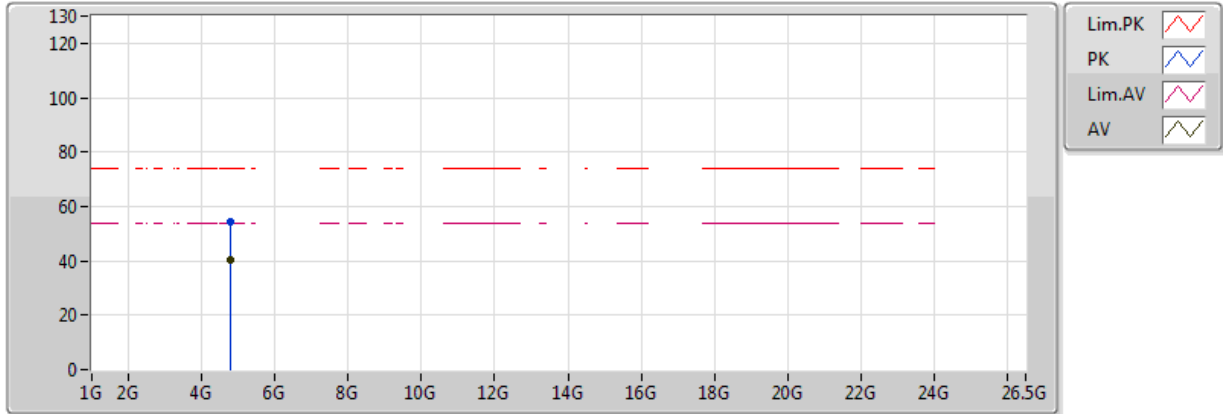


EUT = Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4018G	114.39	Inf	-Inf	30.80	3	V	174	1.50	-
AV	2.3892G	43.16	54.00	-10.84	30.75	3	V	174	1.50	-
PK	2.4022G	115.27	Inf	-Inf	30.80	3	V	174	1.50	-
PK	2.3894G	54.14	74.00	-19.86	30.76	3	V	174	1.50	-

BT-LE(1Mbps)

2402MHz_TX

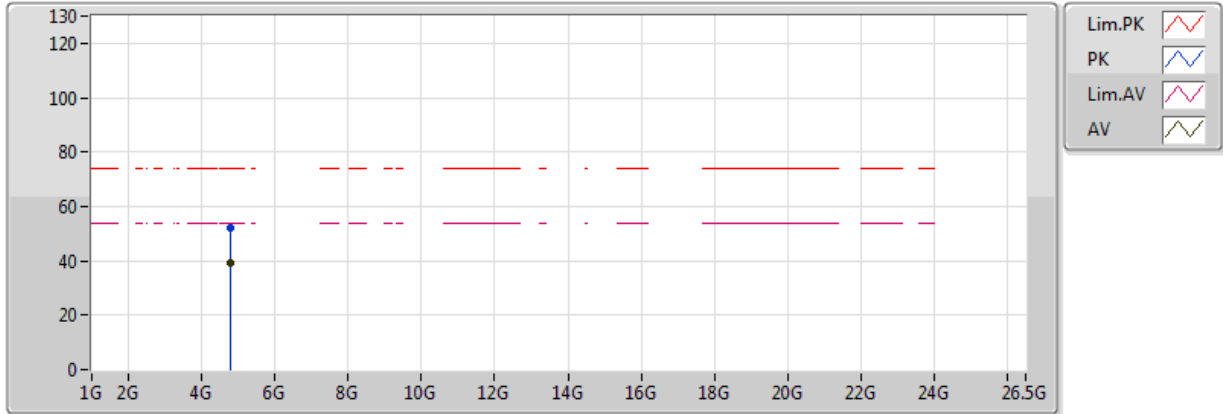


EUT = Y

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	40.62	54.00	-13.38	1.98	3	V	345	1.95	-
PK	4.804G	54.45	74.00	-19.55	1.98	3	V	345	1.95	-

BT-LE(1Mbps)

2402MHz_TX

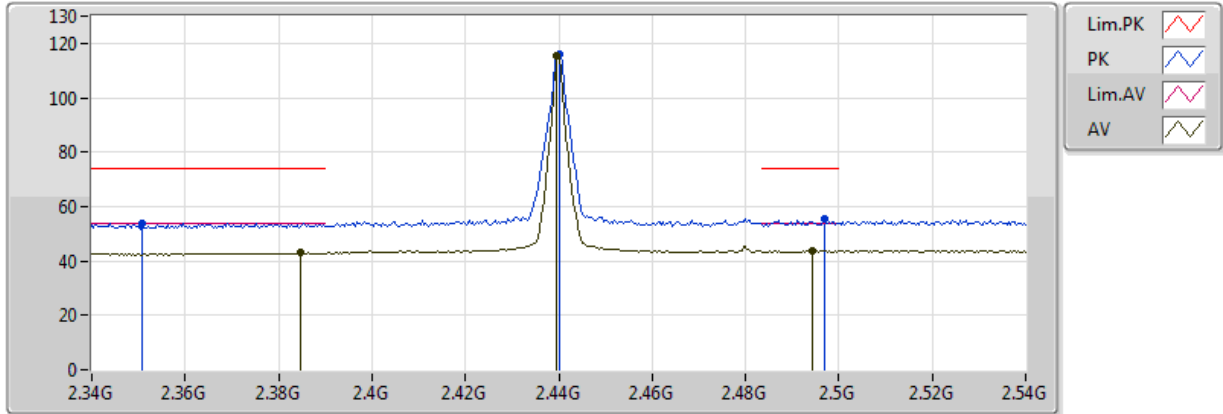


EUT = Y

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	39.03	54.00	-14.97	1.98	3	H	306	1.77	-
PK	4.804G	52.10	74.00	-21.90	1.98	3	H	306	1.77	-

BT-LE(1Mbps)

2440MHz_TX

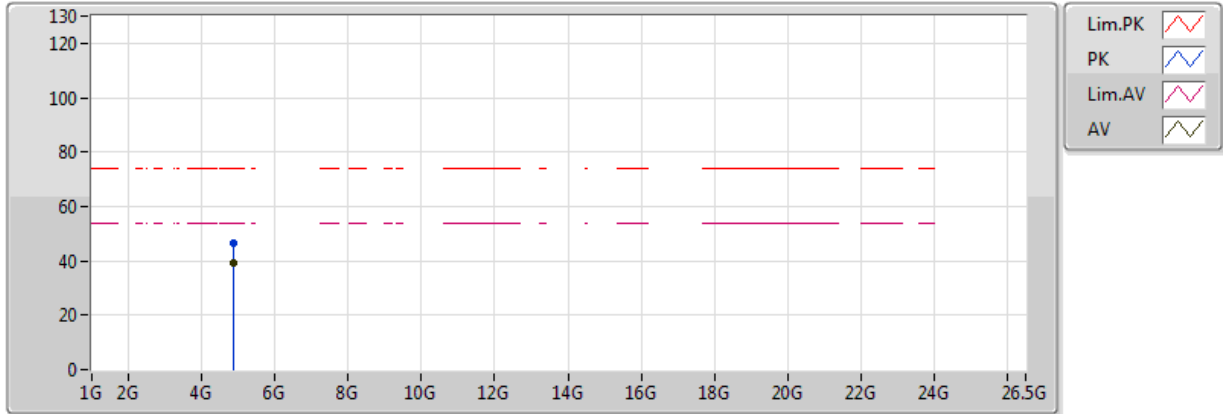


EUT = Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4396G	115.29	Inf	-Inf	30.92	3	V	178	1.53	-
AV	2.3848G	43.01	54.00	-10.99	30.74	3	V	178	1.53	-
AV	2.4944G	43.67	54.00	-10.33	31.11	3	V	178	1.53	-
PK	2.44G	116.17	Inf	-Inf	30.93	3	V	178	1.53	-
PK	2.3508G	53.88	74.00	-20.12	30.63	3	V	178	1.53	-
PK	2.4968G	55.39	74.00	-18.61	31.12	3	V	178	1.53	-

BT-LE(1Mbps)

2440MHz_TX

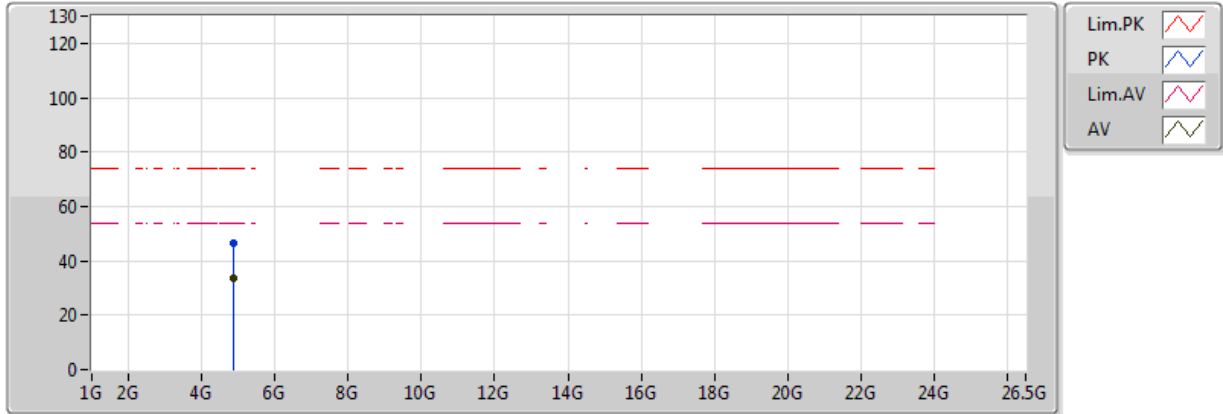


EUT = Y

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	39.50	54.00	-14.50	2.19	3	V	360	2.01	-
PK	4.88G	46.69	74.00	-27.31	2.19	3	V	360	2.01	-

BT-LE(1Mbps)

2440MHz_TX

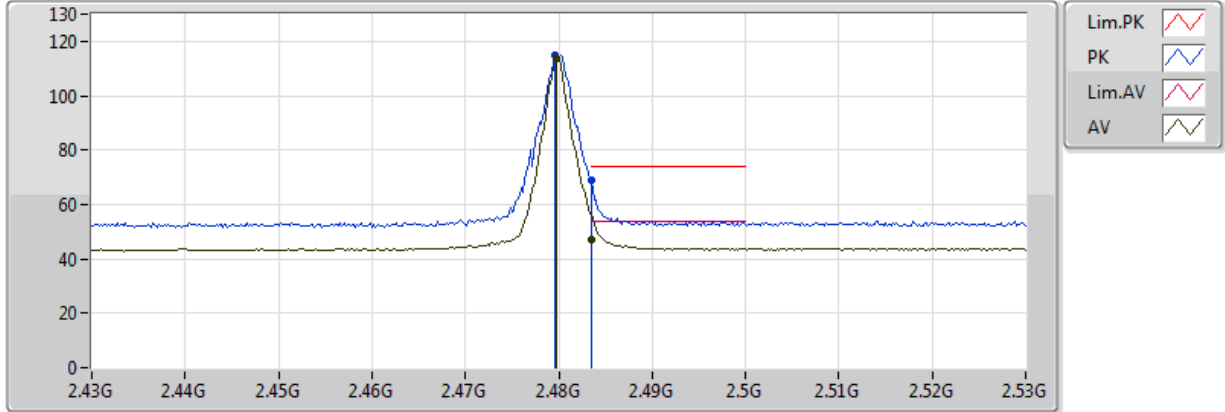


EUT = Y

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	33.47	54.00	-20.53	2.19	3	H	303	3.59	-
PK	4.88G	46.36	74.00	-27.64	2.19	3	H	303	3.59	-

BT-LE(1Mbps)

2480MHz_TX

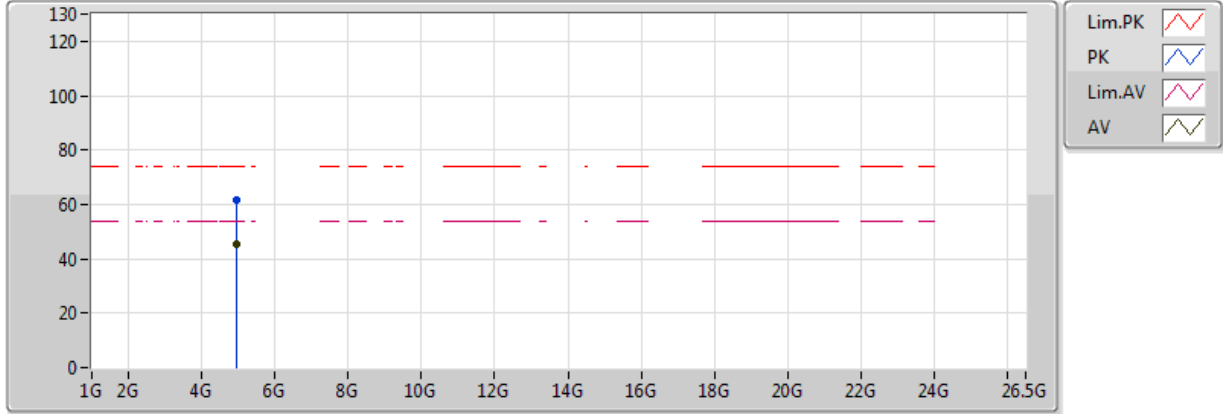


EUT = Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4798G	113.99	Inf	-Inf	31.06	3	V	179	1.99	-
AV	2.483502G	47.00	54.00	-7.00	31.07	3	V	179	1.99	-
PK	2.4796G	114.78	Inf	-Inf	31.06	3	V	179	1.99	-
PK	2.483502G	69.14	74.00	-4.86	31.07	3	V	179	1.99	-

BT-LE(1Mbps)

2480MHz_TX

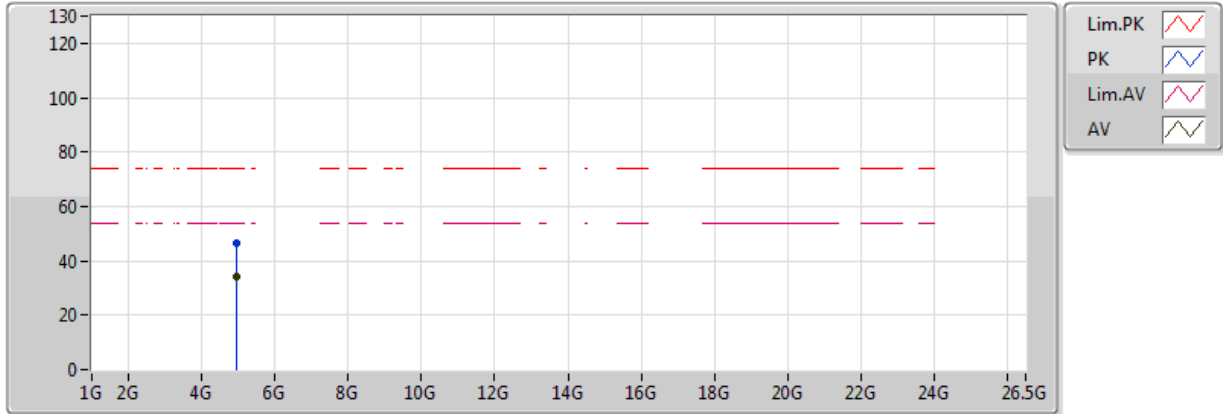


EUT = Y

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	45.23	54.00	-8.77	2.41	3	V	207	2.20	-
PK	4.96G	61.66	74.00	-12.34	2.41	3	V	207	2.20	-

BT-LE(1Mbps)

2480MHz_TX



EUT = Y

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	34.18	54.00	-19.82	2.41	3	H	179	2.98	-
PK	4.96G	46.34	74.00	-27.66	2.41	3	H	179	2.98	-