

NCC Test Report

Equipment : 802.11abgn+ac + Bluetooth 2.1+3.0+4.0(Module)
Brand Name : NVIDIA
Model Name : P3310
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134, USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134, USA
Standard : LP0002 Section 3.10 (2018-01-10)

The product was received on Sep. 13, 2018, and testing was started from Sep. 13, 2018 and completed on Sep. 26, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	3.10.1.4	Antenna Requirement	PASS	LP0002-2.2
3.1	2.3	AC Power-line Conducted Emissions	PASS	LP0002-2.3
3.2	3.10.1.6	DTS Bandwidth	PASS	≥500kHz
3.3	3.10.1.2	Maximum Conducted Output Power	PASS	Power [dBm]:30
3.4	3.10.1.6	Power Spectral Density	PASS	PSD [dBm/3kHz]:8
3.5	3.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	Non-Restricted Bands: >30 dBc
3.6	3.10.1.5	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: LP0002-2.8
3.7	2.11	Receiver Radiated Unwanted Emissions	PASS	Restricted Bands: LP0002-2.8

Reviewed by: Sam Tsai

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Shanghai Amphenol Airwave	Ci8717-15-000-R	PCB Antenna	I-PEX
2	Shanghai Amphenol Airwave	Ci8717-15-000-R	PCB Antenna	I-PEX
3	Shanghai Amphenol Airwave	CI8904-02-000-R	Dipole Antenna	I-PEX
4	Shanghai Amphenol Airwave	CI8904-02-000-R	Dipole Antenna	I-PEX

Ant.	Port	Gain (dBi)					
		2.4G	BT	5G			
				U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
1	1	6.02	6.02	5.53	6.48	7.91	5.38
2	2	6.02	-	5.53	6.48	7.91	5.38
3	1	4.58	4.58	3.52	4.48	3.75	4.06
4	2	4.58	-	3.52	4.48	3.75	4.06

Note: The EUT has two antenna configurations.

Type 1: Antenna 1(port 1) + Antenna 2(port 2)

Type 2: Antenna 3(port 1) + Antenna 4(port 2)

For 2.4GHz function:

For IEEE 802.11 b/g mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Port 2 and it was record in this test report.

For IEEE 802.11 n mode (2TX/2RX)

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Port 1 and it was record in this test report.

For IEEE 802.11 n/ac mode (2TX/2RX)

Port 1 and Port 2 could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Port 1 could transmit/receive simultaneously.

1.1.3 EUT Information

Identify EUT			
RF Chip	Broadcom/BCM4354		
Operational Condition			
EUT Power Type	From Switching Power Supply		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
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	392.188u	3k

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ LP0002 (2018-01-10)
- ♦ ANSI C63.10-2013
- ♦ KDB 558074 D01 v05
- ♦ ANSI C63.4-2014

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
☐	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 Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Dexter	24.3°C / 65.5%	26/Sep/2018
Radiated	03CH09-HY	Andy Hsu	23.2°C / 56%	20/Sep/2018
AC Conduction	CO04-HY	Jerry Lin	2.5°C / 55.5%	22/Sep/2018

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 (9kHz ~ 30MHz)	3.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software	Dos
---------------	-----

PCB Antenna

Mode	PowerSetting
BT-LE(1Mbps)	-
2402MHz	default
2440MHz	default
2480MHz	default

Dipole Antenna

Mode	PowerSetting
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 / CRX
1	Switching Power Supply ; PCB Antenna
2	Switching Power Supply ; Dipole Antenna

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 Receiver Radiated Unwanted Emissions
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	CTX / CRX
1	Switching Power Supply ; PCB Antenna
2	Switching Power Supply ; Dipole Antenna
Orthogonal Planes of EUT	Z Plane
	
Worst Planes of EUT	V

2.4 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
3	Fixture	-	-	-

Note: Support equipment No.3 was provided by customer.

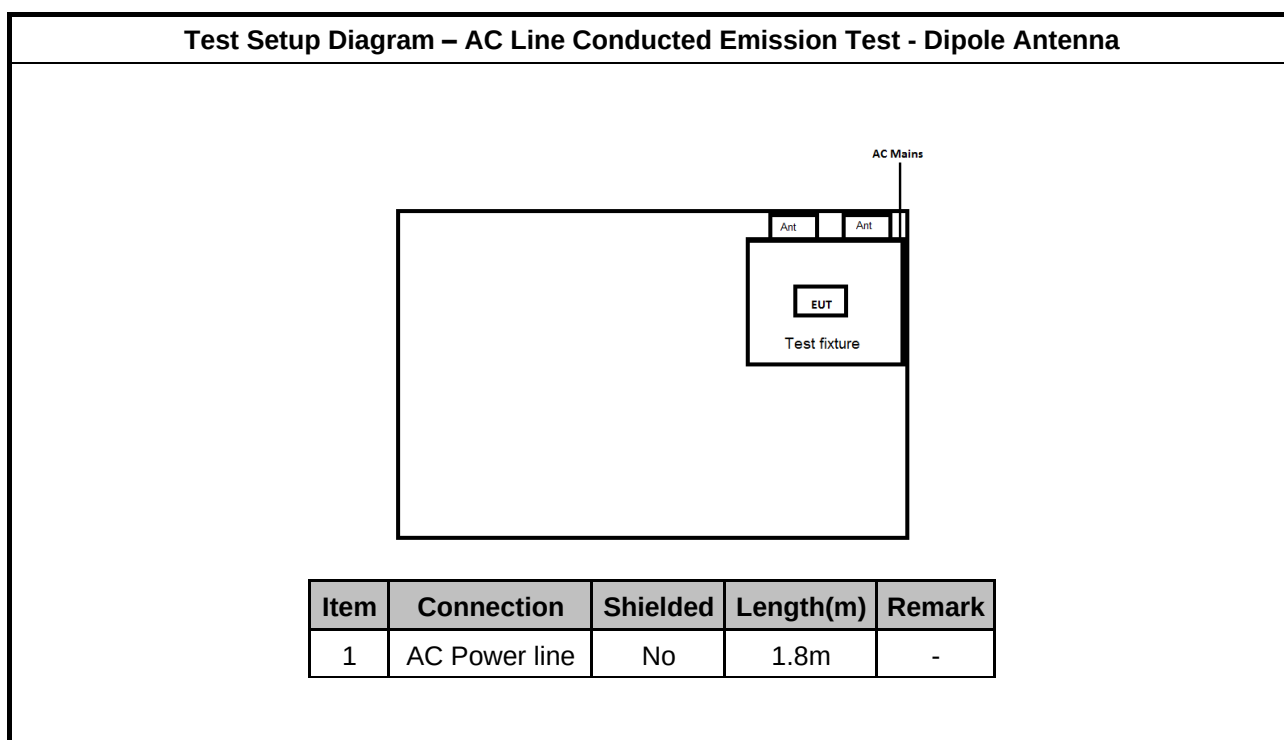
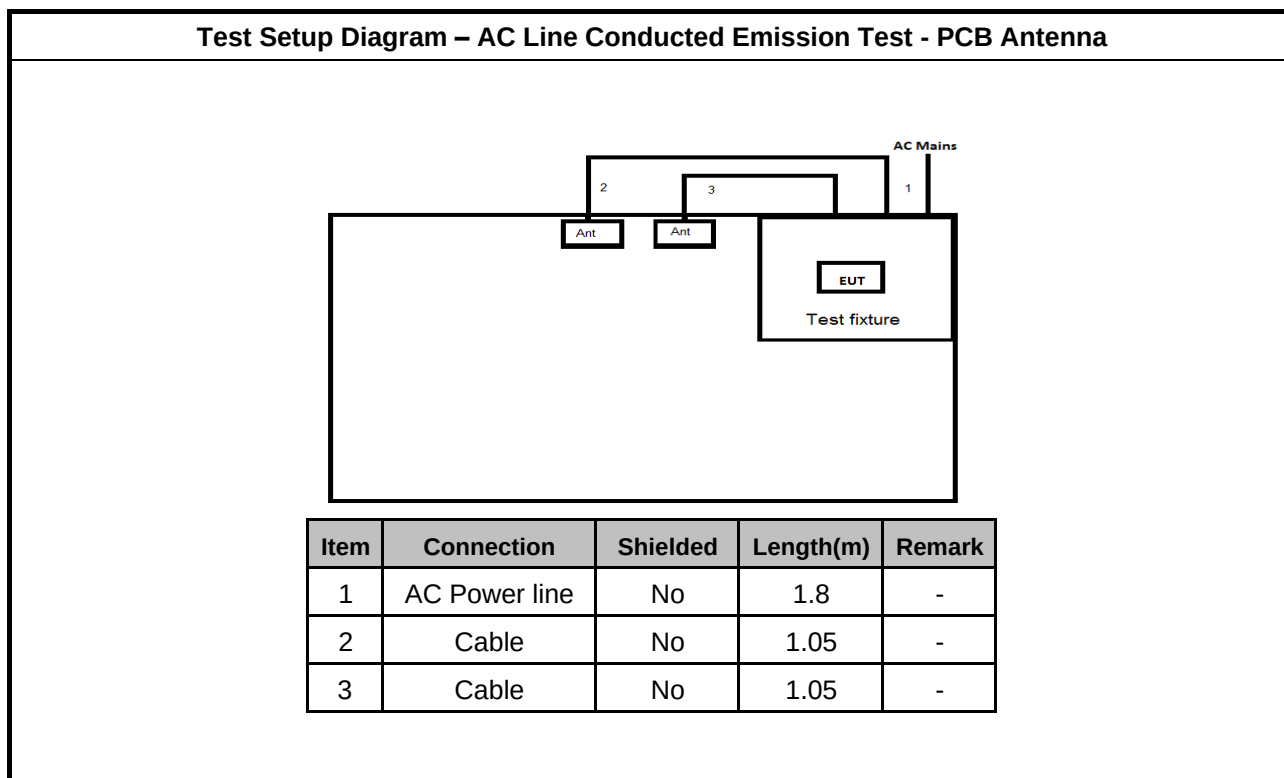
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Fixture	-	-	-

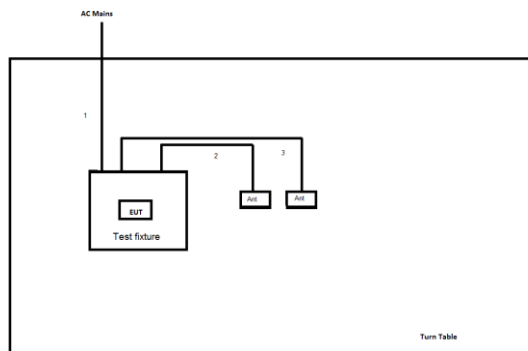
Note: Support equipment No.1 was provided by customer.

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Fixture	-	-	-

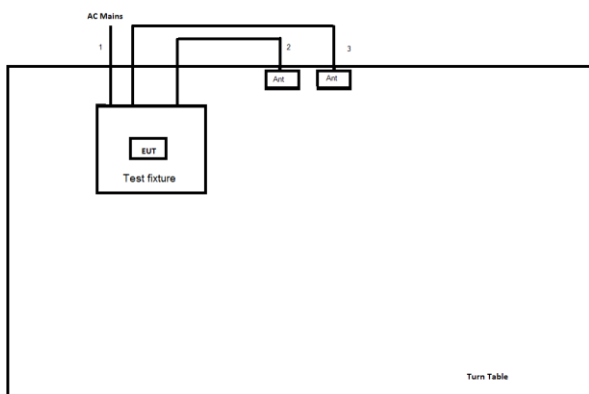
Note: Support equipment No.1 was provided by customer.

2.5 Test Setup Diagram

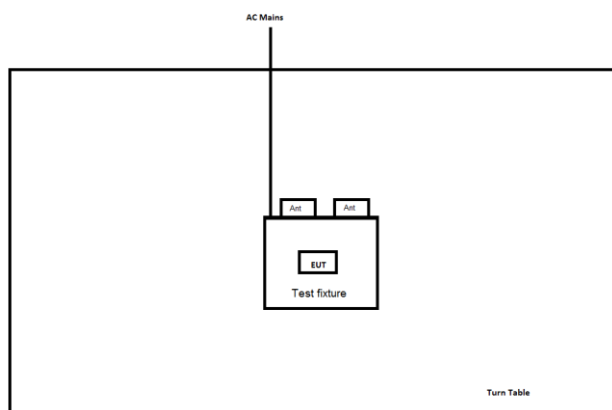


Test Setup Diagram - Radiated Test TX - PCB Antenna


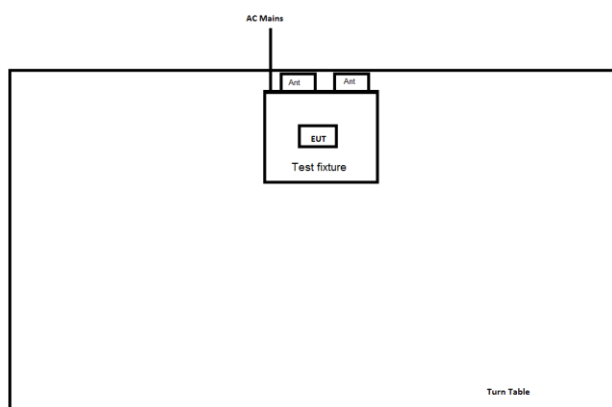
Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-
2	Antenna Cable	No	1.05	-
3	Antenna Cable	No	1.05	-

Test Setup Diagram - Radiated Test RX - PCB Antenna


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-
2	Antenna Cable	No	1.05	-
3	Antenna Cable	No	1.05	-

Test Setup Diagram - Radiated Test TX - Dipole Antenna


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-

Test Setup Diagram - Radiated Test RX - Dipole Antenna


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-

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.

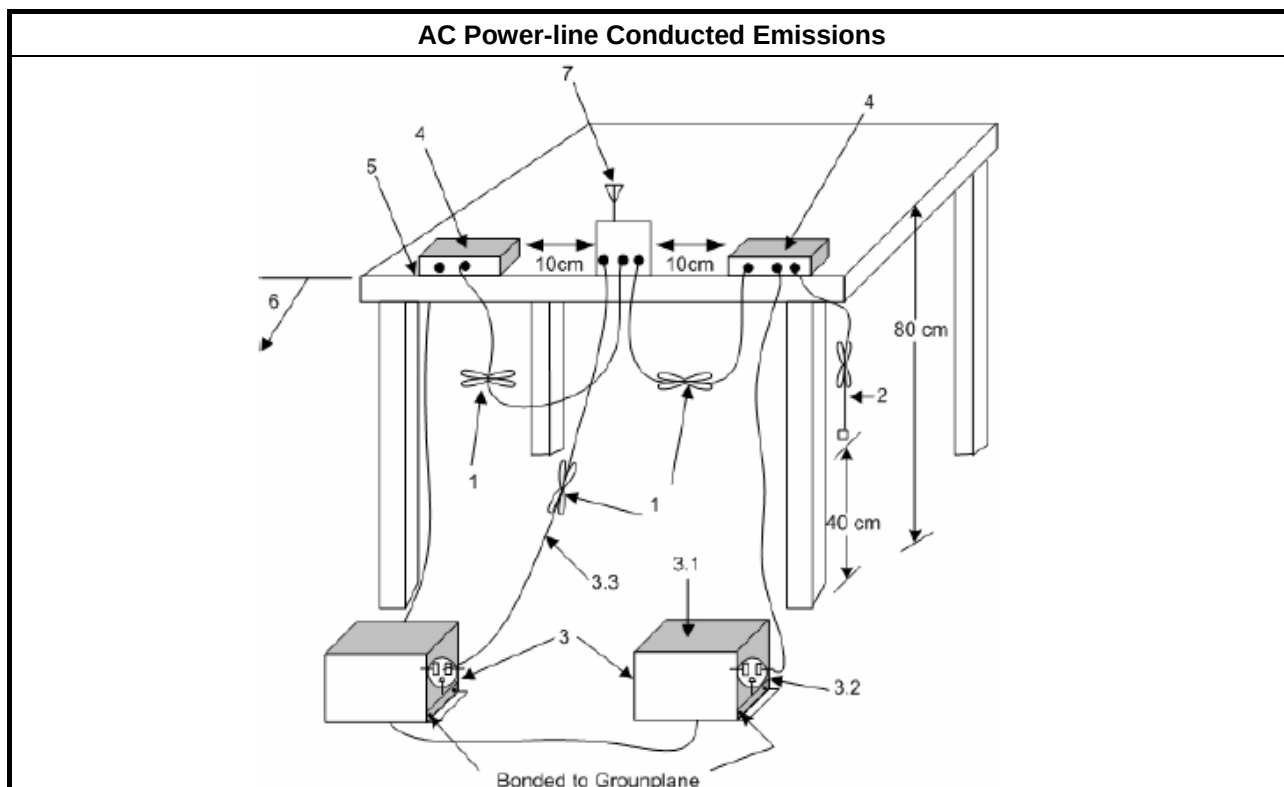
3.1.2 Measuring Instruments

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.

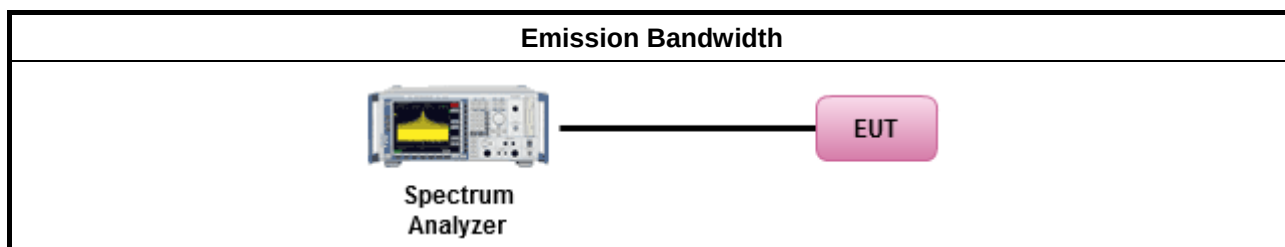
3.2.2 Measuring Instruments

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 8.2 (11.9.2.2 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	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.	

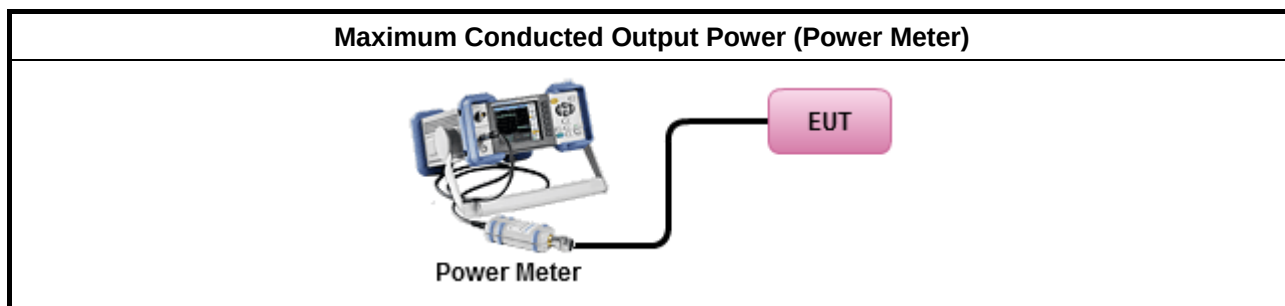
3.3.2 Measuring Instruments

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 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a 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) ≤ 8 dBm/3kHz

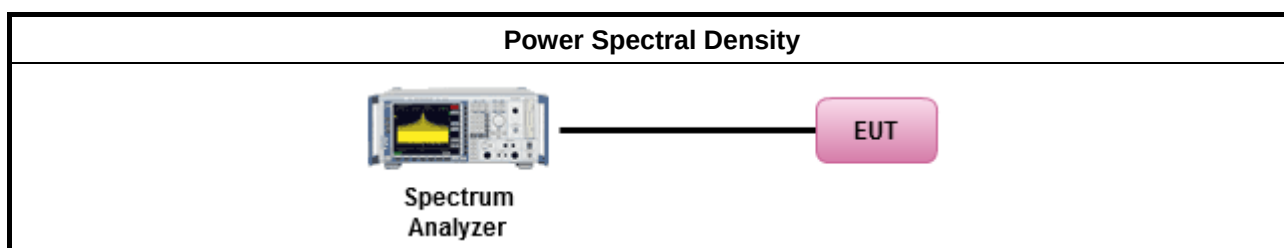
3.4.2 Measuring Instruments

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 8.4 (11.10 of ANSI C63.10) Method PKPSD.
▪	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.	

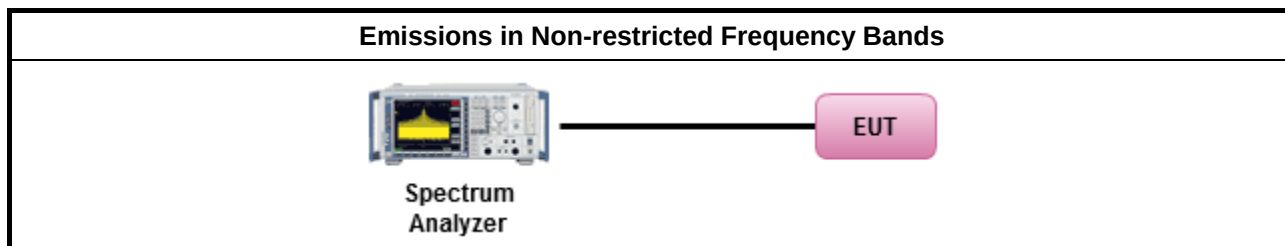
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

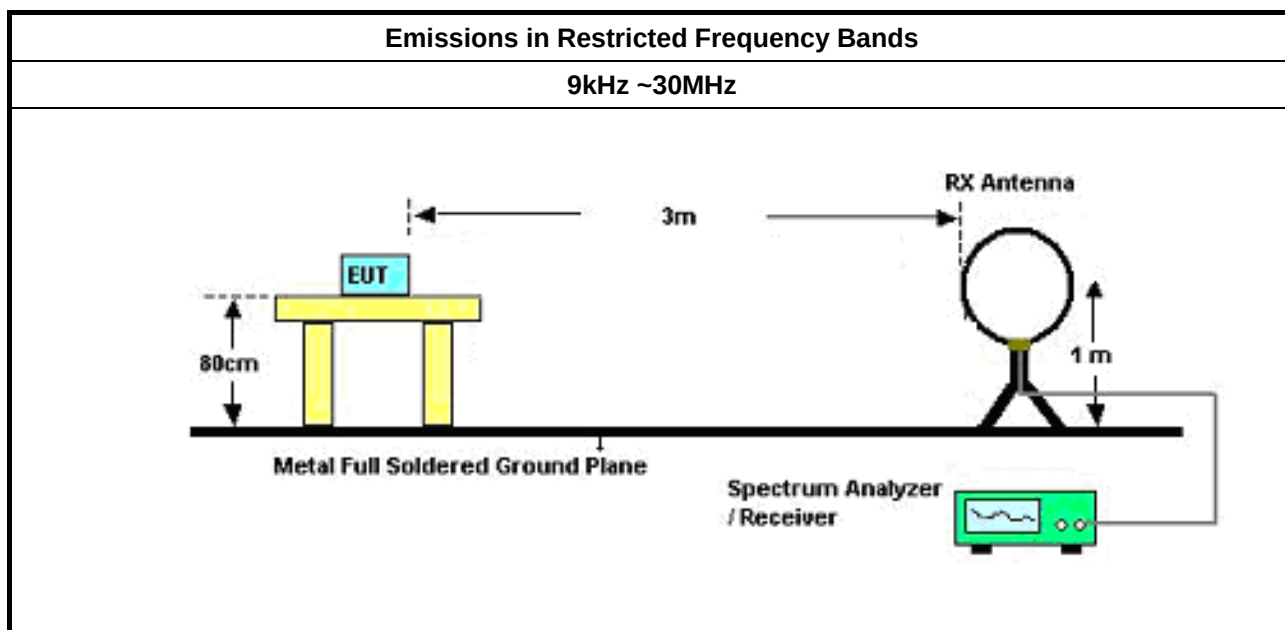
3.6.2 Measuring Instruments

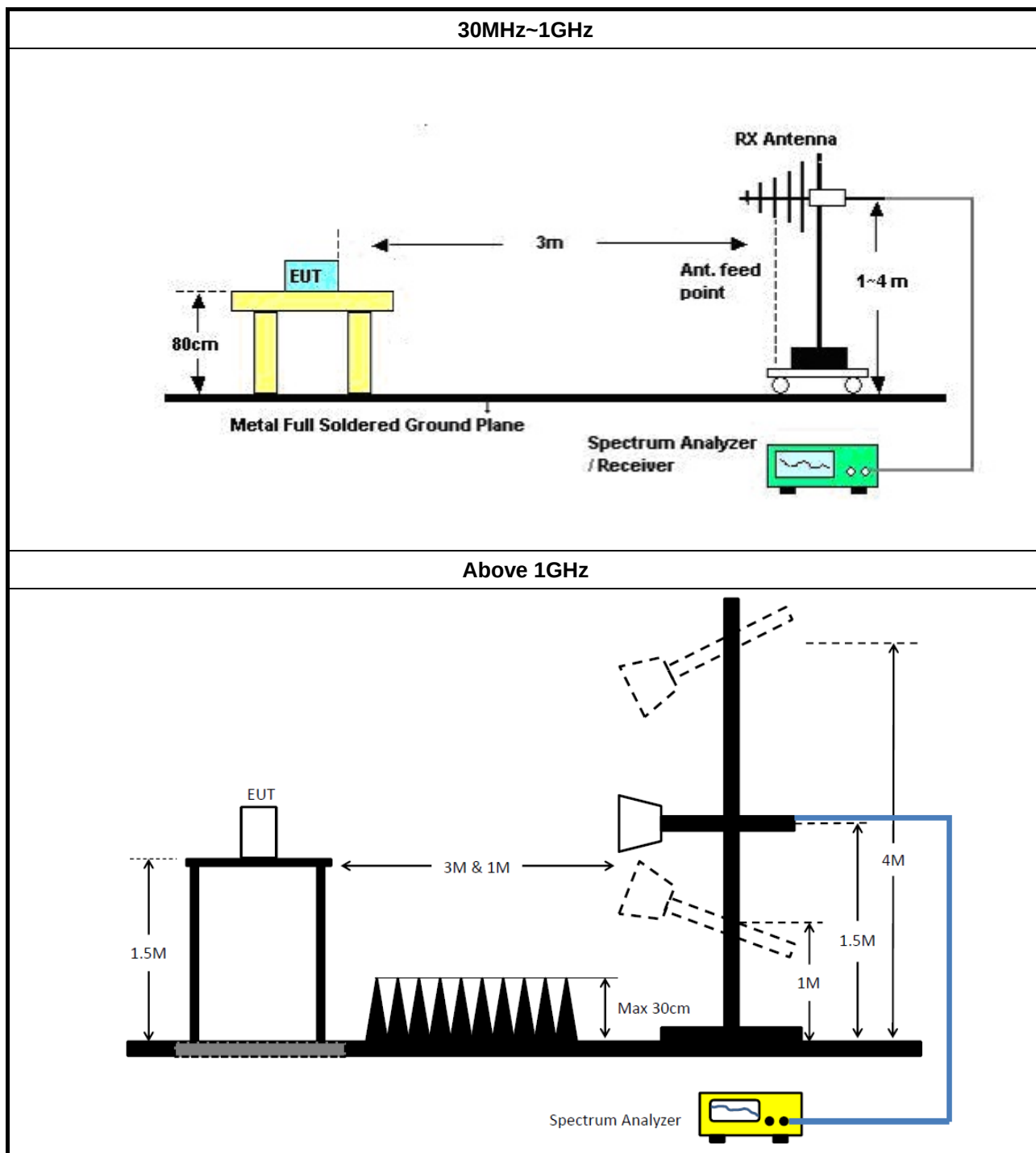
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
	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 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	For the transmitter band-edge emissions shall be measured using following options below:
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).

3.6.4 Test Setup





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

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

3.7 Receiver Radiated Spurious Emissions

3.7.1 Receiver in Radiated Spurious Emissions Limit

Restricted Spurious 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.

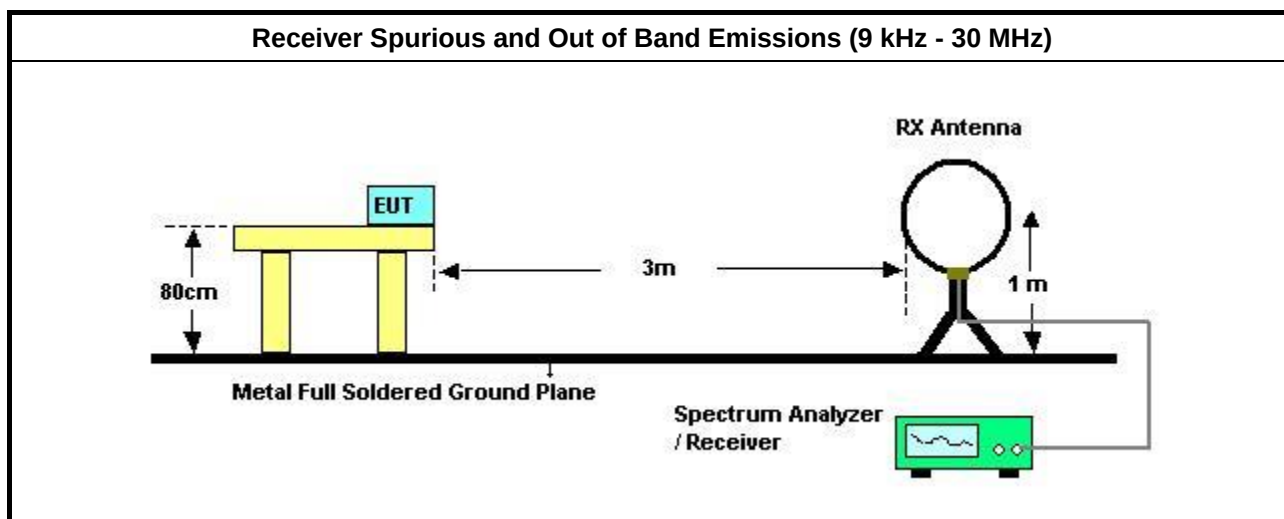
3.7.2 Measuring Instruments

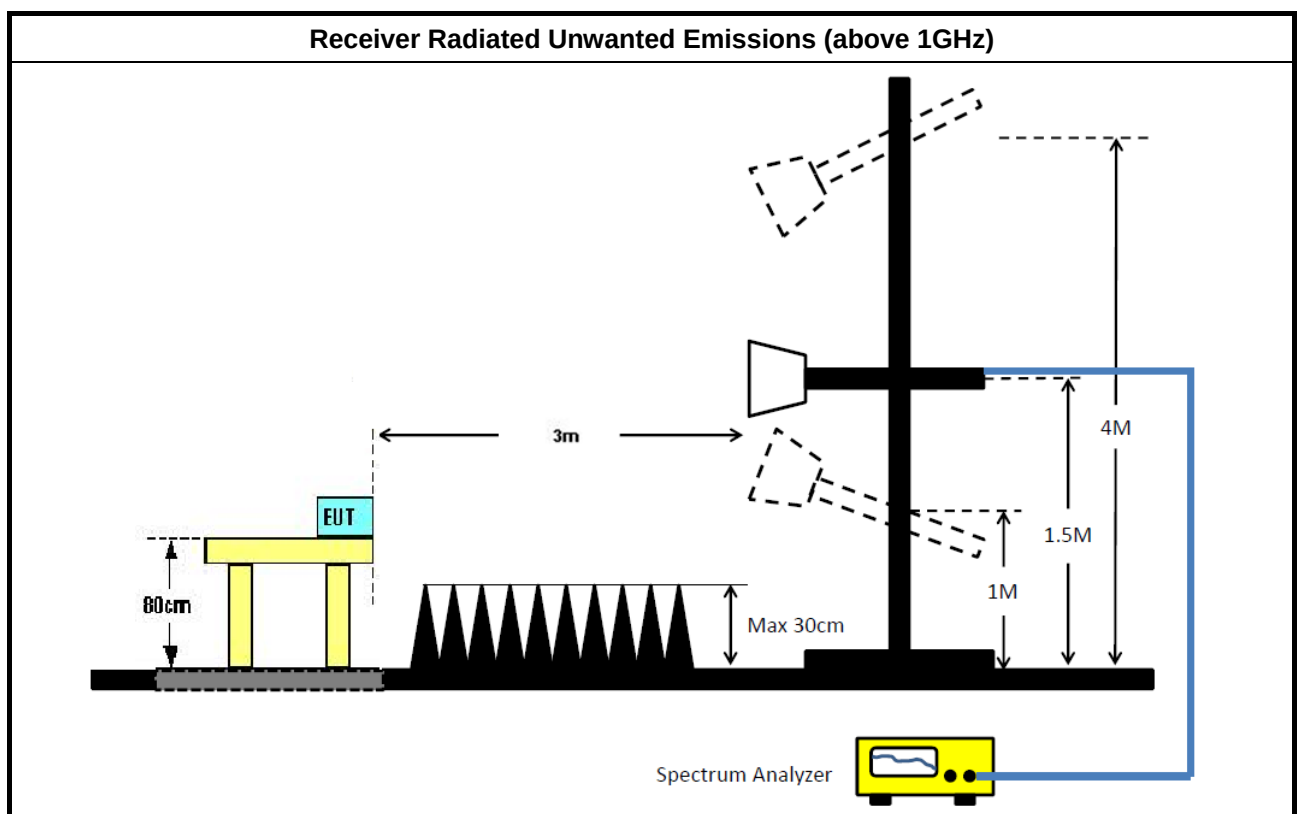
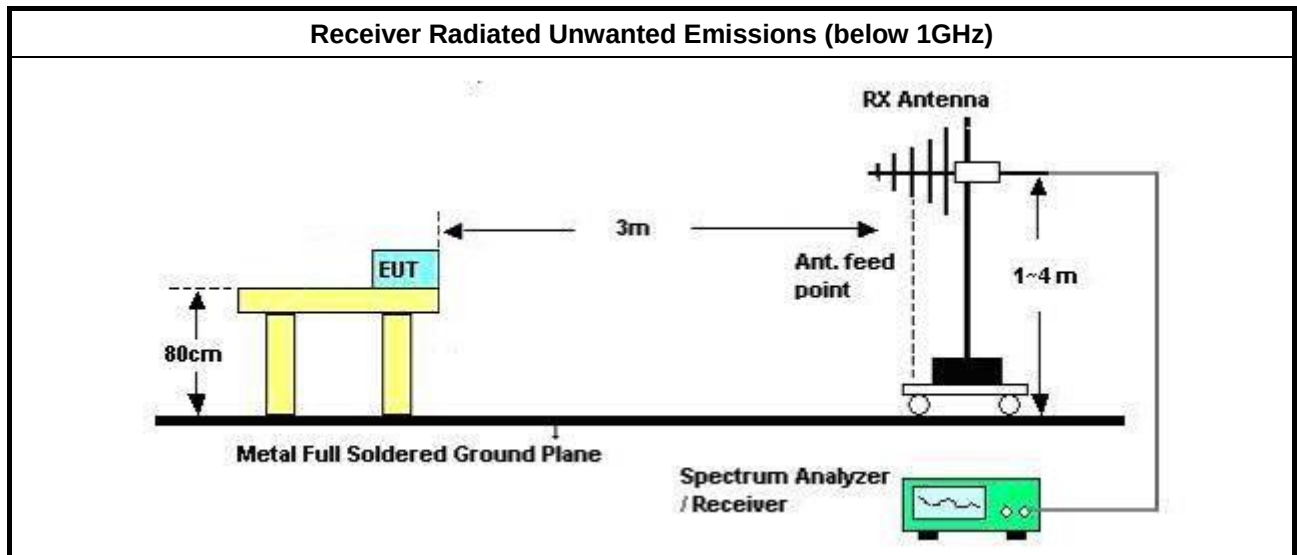
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
☒	The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.
☒	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).
☒	For radiated measurement, refer as ANSI C63.4, clause 8.3.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from below 30 MHz.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from 30 MHz-1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the QP-Limit so that the QP level does not need to be reported in addition.
☒	Refer as ANSI C63.4, clause 8.3.1.2 and 8.3.2.2 for radiated emissions from above 1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
☒	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.

3.7.4 Test Setup





3.7.5 Receiver Radiated Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.7.6 Test Result of Receiver Radiated Unwanted Emissions

Refer as Appendix G

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	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	06/Oct/2017	05/Oct/2018
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2017	11/Oct/2018

NCR : Non-Calibration Require

Instrument for Radiated Test

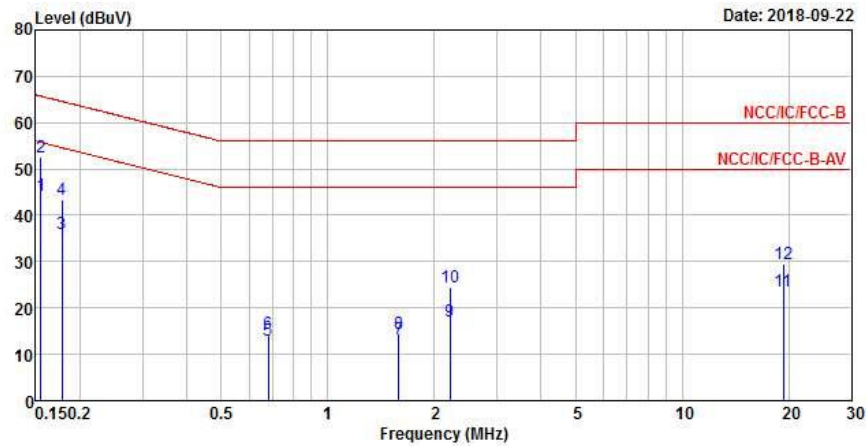
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	23/Apr/2018	22/Apr/2019
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	14/Jun/2018	13/Jun/2019
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	10/May/2018	09/May/2019
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	27/Apr/2018	26/Apr/2019
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	31/Jul/2018	30/Jul/2019
Bilog Antenna & 6dB Attenuator	SCHAFFNER/Yi Chang	CBL6111C / MTJ61202	2724 / MTJ61202-06	30MHz~1GHz	07/Jul/2018	06/Jul/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	30/Apr/2018	29/Apr/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	09/Feb/2018	08/Feb/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
RF Cable-R03m	Jye Bao	RG142	CB031	9kHz ~ 1GHz	1/Feb/2018	31/Jan/2019
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	14/Mar/2018	13/Mar/2019
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/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	05/Feb/2018	04/Feb/2019
Signal Generator	R&S	SMB100A	175727	100kHz~40GHz	26/Oct/2017	25/Oct/2018
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	1G~18G	11/Jan/2018	10/Jan/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz~1G	11/Jan/2018	10/Jan/2019
Cable 0.5m	HUBER	MY10714/4	RF Cable – 05	1G~18G	11/Jan/2018	10/Jan/2019

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Switching Power Supply ; PCB Antenna - TX		

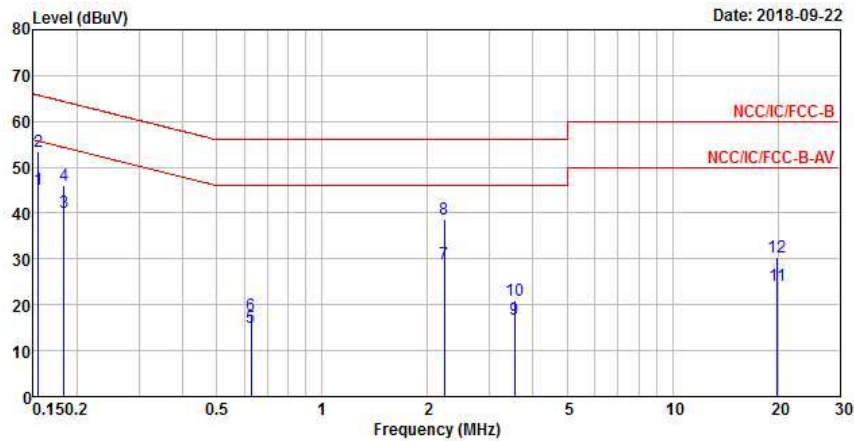


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 MAX	0.15	44.18	-11.56	55.74	34.51	9.63	0.04	Average
2	0.15	52.56	-13.18	65.74	42.89	9.63	0.04	QP
3	0.18	36.01	-18.58	54.59	26.37	9.62	0.02	Average
4	0.18	43.33	-21.26	64.59	33.69	9.62	0.02	QP
5	0.68	13.04	-32.96	46.00	3.38	9.62	0.04	Average
6	0.68	14.43	-41.57	56.00	4.77	9.62	0.04	QP
7	1.59	13.14	-32.86	46.00	3.51	9.63	0.00	Average
8	1.59	14.59	-41.41	56.00	4.96	9.63	0.00	QP
9	2.21	17.09	-28.91	46.00	7.45	9.63	0.01	Average
10	2.21	24.39	-31.61	56.00	14.75	9.63	0.01	QP
11	19.33	23.76	-26.24	50.00	13.87	9.71	0.18	Average
12	19.33	29.62	-30.38	60.00	19.73	9.71	0.18	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	Switching Power Supply ; PCB Antenna - TX		

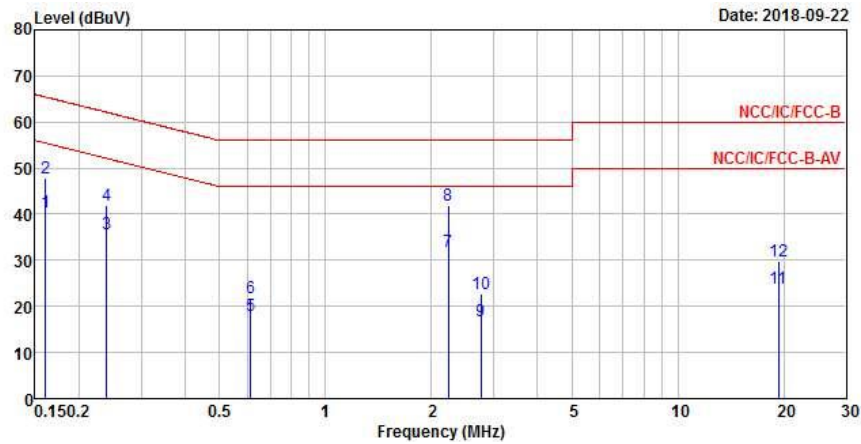


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 MAX	0.15	45.07	-10.67	55.74	35.41	9.62	0.04	Average
2	0.15	53.30	-12.44	65.74	43.64	9.62	0.04	QP
3	0.18	40.05	-14.28	54.33	30.42	9.62	0.01	Average
4	0.18	46.06	-18.27	64.33	36.43	9.62	0.01	QP
5	0.63	14.91	-31.09	46.00	5.25	9.61	0.05	Average
6	0.63	17.60	-38.40	56.00	7.94	9.61	0.05	QP
7	2.24	29.04	-16.96	46.00	19.41	9.62	0.01	Average
8	2.24	38.57	-17.43	56.00	28.94	9.62	0.01	QP
9	3.55	16.89	-29.11	46.00	7.19	9.63	0.07	Average
10	3.55	20.92	-35.08	56.00	11.22	9.63	0.07	QP
11	19.95	24.30	-25.70	50.00	14.48	9.62	0.20	Average
12	19.95	30.39	-29.61	60.00	20.57	9.62	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	Neutral
Operating Function	Switching Power Supply ; PCB Antenna - RX		

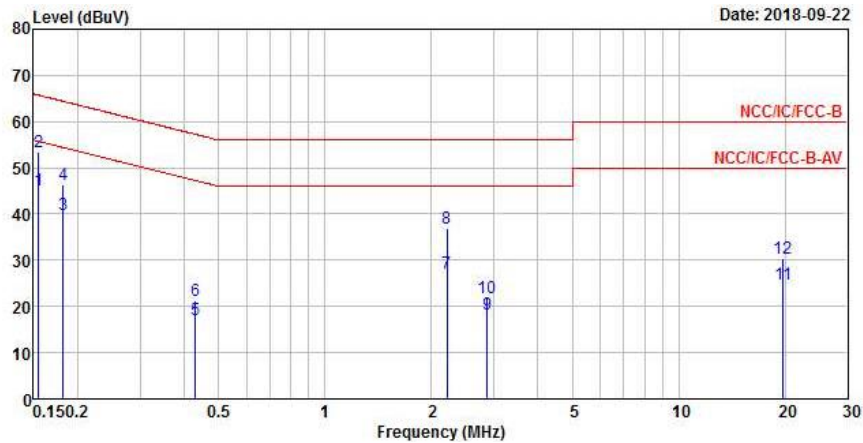


	Freq	Level	Over Limit	Limit Line	Read Level	LISM Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	40.31	-15.12	55.43	30.65	9.63	0.03	Average
2	0.16	47.81	-17.62	65.43	38.15	9.63	0.03	QP
3	0.24	35.84	-16.29	52.13	26.19	9.62	0.03	Average
4	0.24	42.02	-20.11	62.13	32.37	9.62	0.03	QP
5	0.61	17.92	-28.08	46.00	8.26	9.61	0.05	Average
6	0.61	21.91	-34.09	56.00	12.25	9.61	0.05	QP
7	2.24	31.79	-14.21	46.00	22.15	9.63	0.01	Average
8 MAX	2.24	41.91	-14.09	56.00	32.27	9.63	0.01	QP
9	2.76	16.82	-29.18	46.00	7.15	9.63	0.04	Average
10	2.76	22.61	-33.39	56.00	12.94	9.63	0.04	QP
11	19.33	24.00	-26.00	50.00	14.11	9.71	0.18	Average
12	19.33	29.80	-30.20	60.00	19.91	9.71	0.18	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	Switching Power Supply ; PCB Antenna - RX		

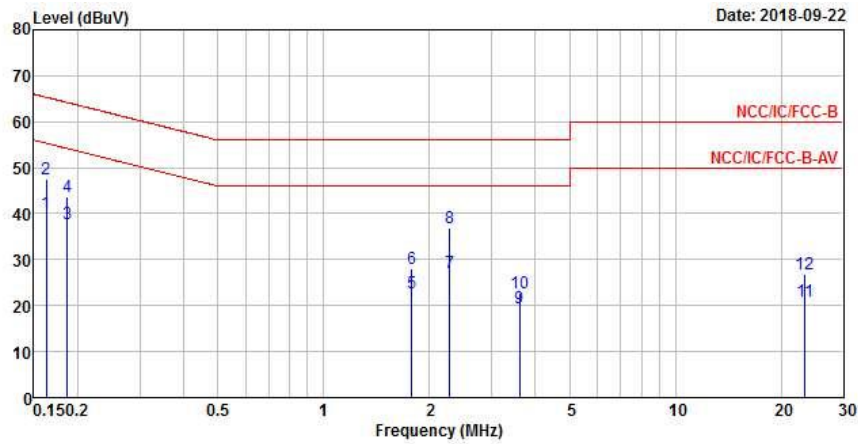


	Freq	Level	Over Limit	Limit Line	Read Level	LISM Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 MAX	0.15	45.08	-10.66	55.74	35.42	9.62	0.04	Average
2	0.15	53.56	-12.18	65.74	43.90	9.62	0.04	QP
3	0.18	39.76	-14.66	54.42	30.13	9.62	0.01	Average
4	0.18	46.45	-17.97	64.42	36.82	9.62	0.01	QP
5	0.43	17.10	-30.14	47.24	7.40	9.61	0.09	Average
6	0.43	21.35	-35.89	57.24	11.65	9.61	0.09	QP
7	2.21	27.23	-18.77	46.00	17.60	9.62	0.01	Average
8	2.21	36.82	-19.18	56.00	27.19	9.62	0.01	QP
9	2.87	18.21	-27.79	46.00	8.54	9.63	0.04	Average
10	2.87	21.71	-34.29	56.00	12.04	9.63	0.04	QP
11	19.74	24.86	-25.14	50.00	15.05	9.62	0.19	Average
12	19.74	30.36	-29.64	60.00	20.55	9.62	0.19	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	2	Power Phase	Neutral
Operating Function	Switching Power Supply ; Dipole Antenna - TX		

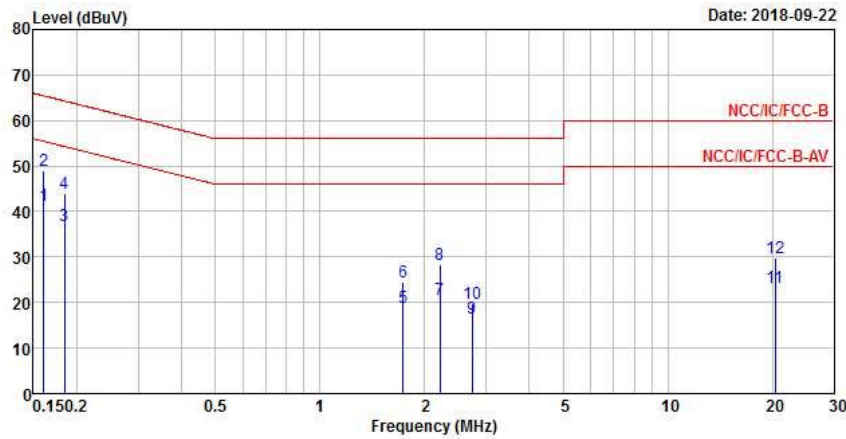


	Freq	Level	Over Limit	Limit Line	Read Level	LISM Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 MAX	0.16	40.12	-15.22	55.34	30.46	9.63	0.03	Average
2	0.16	47.64	-17.70	65.34	37.98	9.63	0.03	QP
3	0.19	37.81	-16.39	54.20	28.18	9.62	0.01	Average
4	0.19	43.67	-20.53	64.20	34.04	9.62	0.01	QP
5	1.78	22.84	-23.16	46.00	13.21	9.63	0.00	Average
6	1.78	28.13	-27.87	56.00	18.50	9.63	0.00	QP
7	2.28	27.25	-18.75	46.00	17.60	9.63	0.02	Average
8	2.28	36.89	-19.11	56.00	27.24	9.63	0.02	QP
9	3.60	19.42	-26.58	46.00	9.71	9.64	0.07	Average
10	3.60	22.72	-33.28	56.00	13.01	9.64	0.07	QP
11	23.39	20.87	-29.13	50.00	11.11	9.70	0.06	Average
12	23.39	26.83	-33.17	60.00	17.07	9.70	0.06	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	2	Power Phase	Line
Operating Function	Switching Power Supply ; Dipole Antenna - TX		

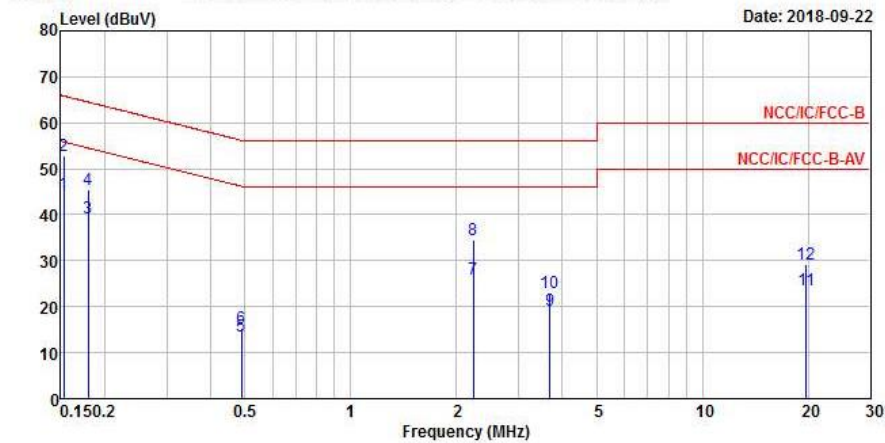


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 MAX	0.16	41.45	-13.98	55.43	31.80	9.62	0.03	Average
2	0.16	48.97	-16.46	65.43	39.32	9.62	0.03	QP
3	0.18	37.03	-17.25	54.28	27.40	9.62	0.01	Average
4	0.18	44.08	-20.20	64.28	34.45	9.62	0.01	QP
5	1.73	19.01	-26.99	46.00	9.39	9.62	0.00	Average
6	1.73	24.50	-31.50	56.00	14.88	9.62	0.00	QP
7	2.21	20.70	-25.30	46.00	11.07	9.62	0.01	Average
8	2.21	28.25	-27.75	56.00	18.62	9.62	0.01	QP
9	2.74	16.39	-29.61	46.00	6.73	9.62	0.04	Average
10	2.74	19.86	-36.14	56.00	10.20	9.62	0.04	QP
11	20.38	23.43	-26.57	50.00	13.63	9.62	0.18	Average
12	20.38	29.72	-30.28	60.00	19.92	9.62	0.18	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	2	Power Phase	Neutral
Operating Function	Switching Power Supply ; Dipole Antenna - RX		

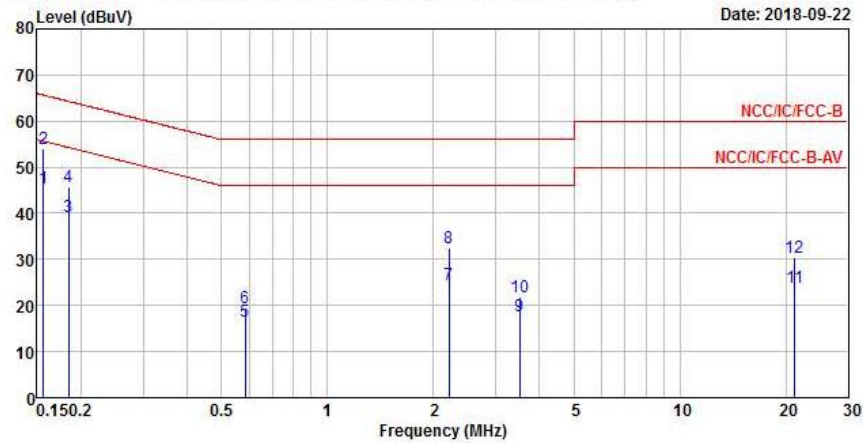


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 MAX	0.15	44.51	-11.31	55.82	34.84	9.63	0.04	Average
2	0.15	52.70	-13.12	65.82	43.03	9.63	0.04	QP
3	0.18	39.17	-15.33	54.50	29.53	9.62	0.02	Average
4	0.18	45.32	-19.18	64.50	35.68	9.62	0.02	QP
5	0.49	13.63	-32.56	46.19	3.94	9.61	0.08	Average
6	0.49	15.39	-40.80	56.19	5.70	9.61	0.08	QP
7	2.24	25.95	-20.05	46.00	16.31	9.63	0.01	Average
8	2.24	34.52	-21.48	56.00	24.88	9.63	0.01	QP
9	3.68	19.08	-26.92	46.00	9.36	9.64	0.08	Average
10	3.68	23.01	-32.99	56.00	13.29	9.64	0.08	QP
11	19.74	23.67	-26.33	50.00	13.77	9.71	0.19	Average
12	19.74	29.21	-30.79	60.00	19.31	9.71	0.19	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	2	Power Phase	Line
Operating Function	Switching Power Supply ; Dipole Antenna - RX		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 MAX	0.16	45.44	-10.21	55.65	35.78	9.62	0.04	Average
2	0.16	53.92	-11.73	65.65	44.26	9.62	0.04	QP
3	0.18	39.17	-15.11	54.28	29.54	9.62	0.01	Average
4	0.18	45.89	-18.39	64.28	36.26	9.62	0.01	QP
5	0.59	16.54	-29.46	46.00	6.87	9.61	0.06	Average
6	0.59	19.58	-36.42	56.00	9.91	9.61	0.06	QP
7	2.21	24.56	-21.44	46.00	14.93	9.62	0.01	Average
8	2.21	32.51	-23.49	56.00	22.88	9.62	0.01	QP
9	3.51	17.76	-28.24	46.00	8.06	9.63	0.07	Average
10	3.51	21.81	-34.19	56.00	12.11	9.63	0.07	QP
11	21.15	23.80	-26.20	50.00	14.05	9.60	0.15	Average
12	21.15	30.28	-29.72	60.00	20.53	9.60	0.15	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)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	715k	1.057M	1M06F1D	702.5k	1.052M

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;

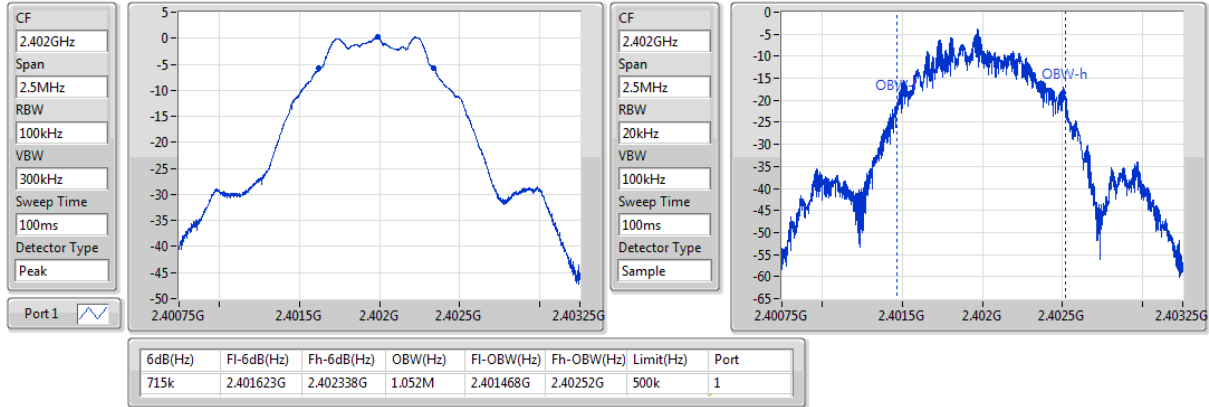
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	500k	715k	1.052M
2440MHz_TnomVnom	Pass	500k	710k	1.057M
2480MHz_TnomVnom	Pass	500k	702.5k	1.056M

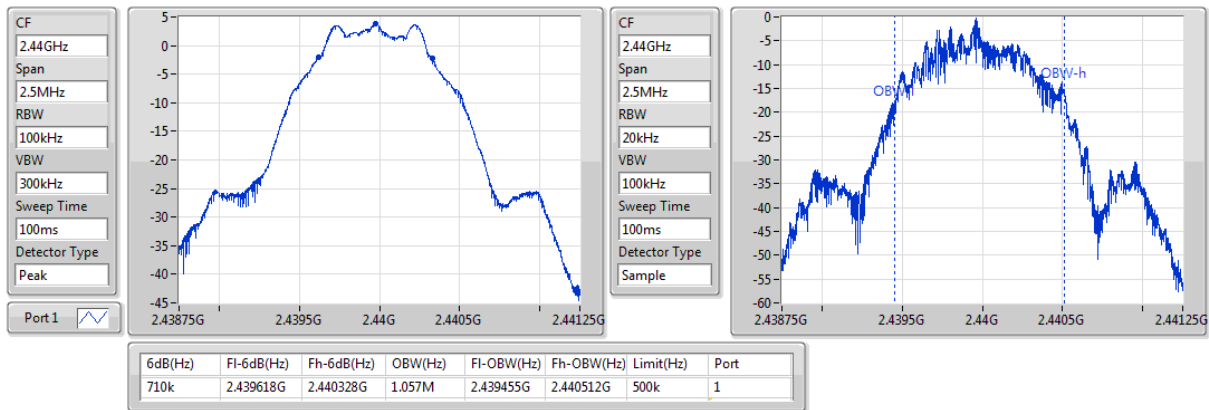
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-LE(1Mbps)
EBW
2402MHz

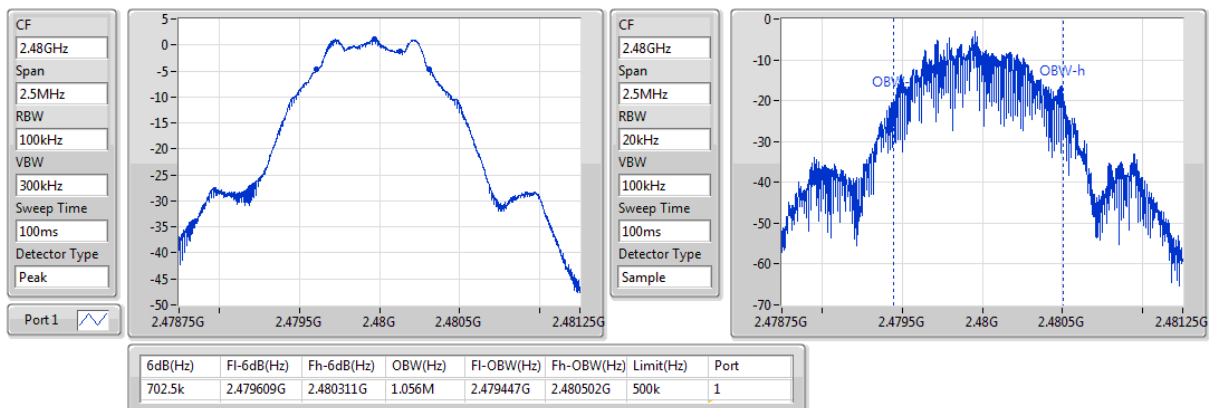
13/09/2018


BT-LE(1Mbps)
EBW
2440MHz

13/09/2018


BT-LE(1Mbps)
EBW
2480MHz

13/09/2018



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	715k	1.057M	1M06F1D	702.5k	1.052M

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;

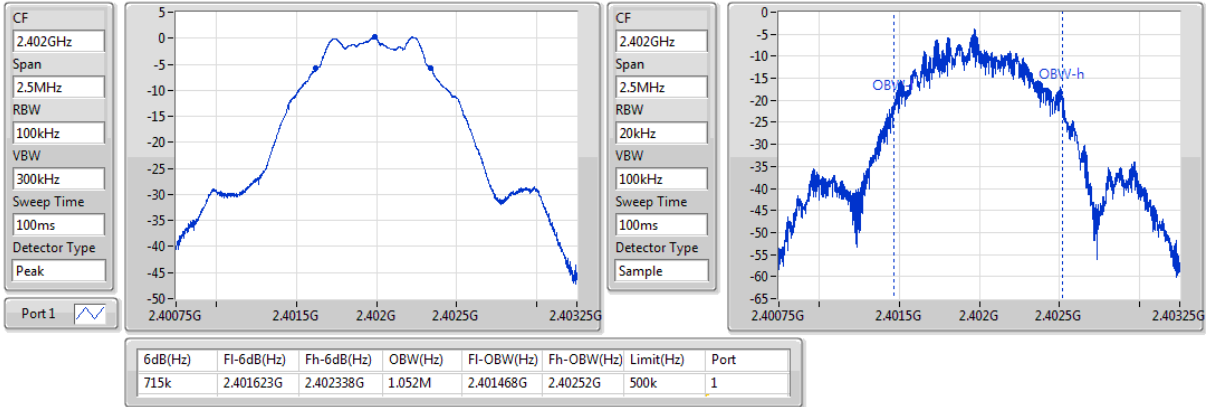
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	500k	715k	1.052M
2440MHz_TnomVnom	Pass	500k	710k	1.057M
2480MHz_TnomVnom	Pass	500k	702.5k	1.056M

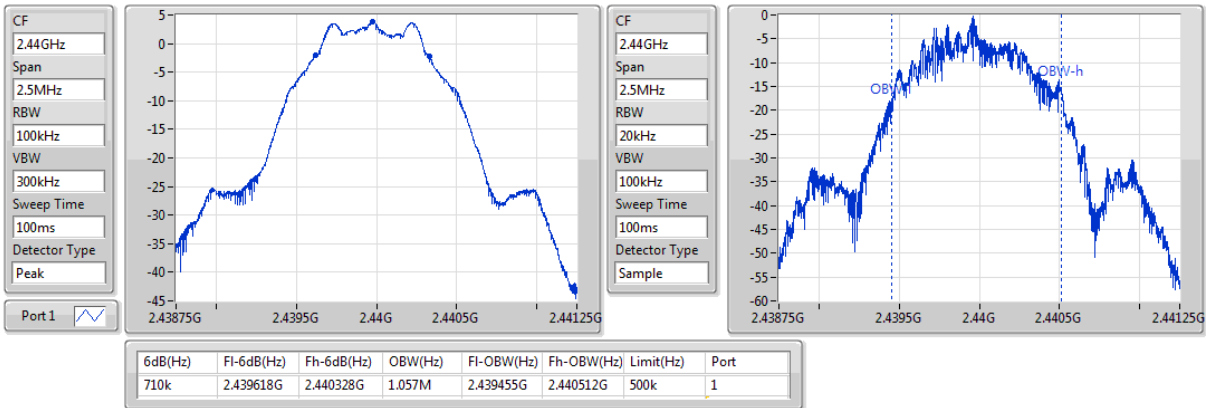
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-LE(1Mbps)
EBW
2402MHz

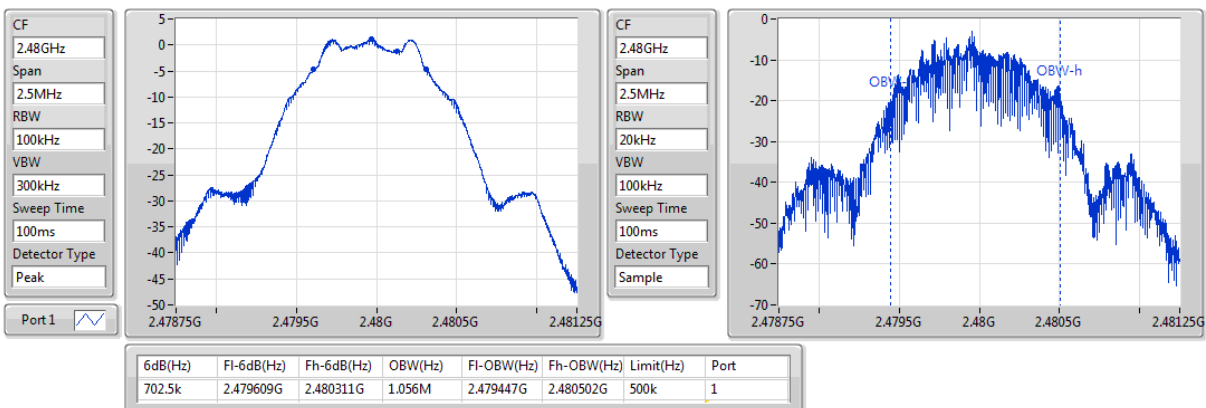
13/09/2018


BT-LE(1Mbps)
EBW
2440MHz

13/09/2018


BT-LE(1Mbps)
EBW
2480MHz

13/09/2018



Summary

Mode	Power	Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	4.31	0.00270

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	6.02	0.69	29.98
2440MHz_TnomVnom	Pass	6.02	4.31	29.98
2480MHz_TnomVnom	Pass	6.02	1.81	29.98

Summary

Mode	Power	Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	4.31	0.00270

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	4.58	0.69	30.00
2440MHz_TnomVnom	Pass	4.58	4.31	30.00
2480MHz_TnomVnom	Pass	4.58	1.81	30.00

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.75

RBW=3kHz.

Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	6.02	-17.53	7.98
2440MHz_TnomVnom	Pass	6.02	-9.75	7.98
2480MHz_TnomVnom	Pass	6.02	-13.80	7.98

RBW=3kHz.

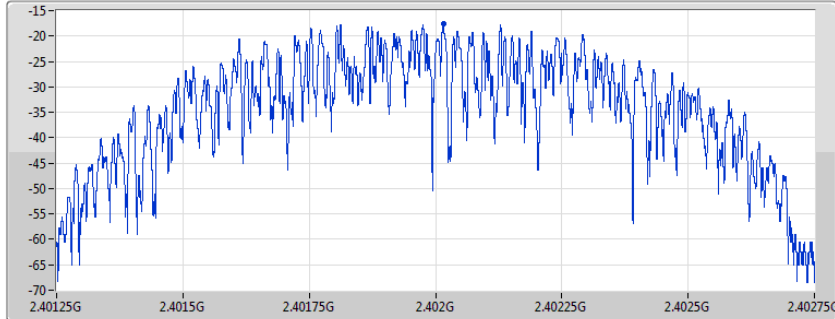
BT-LE(1Mbps)

PSD

2402MHz

13/09/2018

CF
2.402GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
32.1ms
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-17.53	-17.53	-17.53

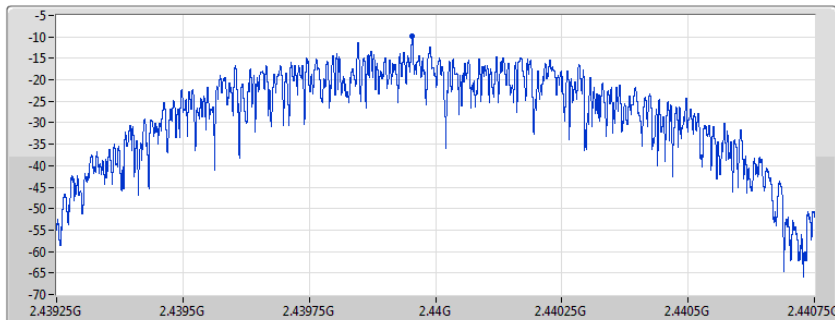
BT-LE(1Mbps)

PSD

2440MHz

13/09/2018

CF
2.44GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
32.1ms
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.75	-9.75	-9.75

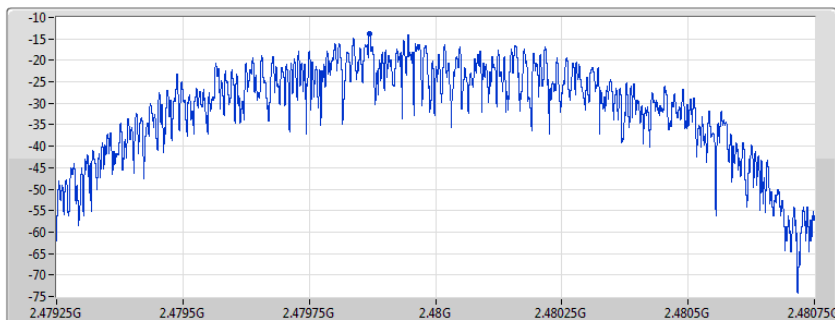
BT-LE(1Mbps)

PSD

2480MHz

13/09/2018

CF
2.48GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
32.1ms
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.80	-13.80	-13.80

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.75

RBW=3kHz.

Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	4.58	-17.53	8.00
2440MHz_TnomVnom	Pass	4.58	-9.75	8.00
2480MHz_TnomVnom	Pass	4.58	-13.80	8.00

RBW=3kHz.

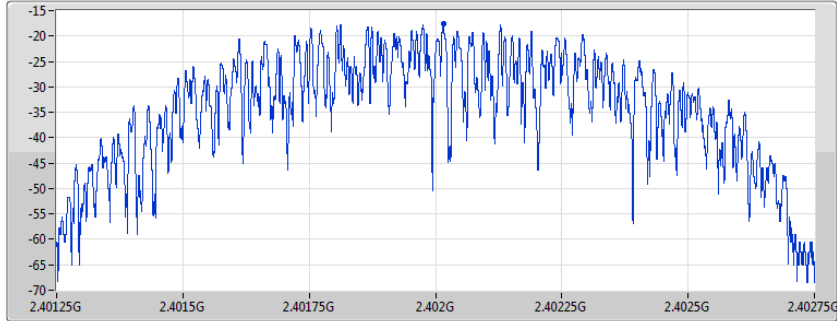
BT-LE(1Mbps)

PSD

2402MHz

13/09/2018

CF
2.402GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
32.1ms
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-17.53	-17.53	-17.53

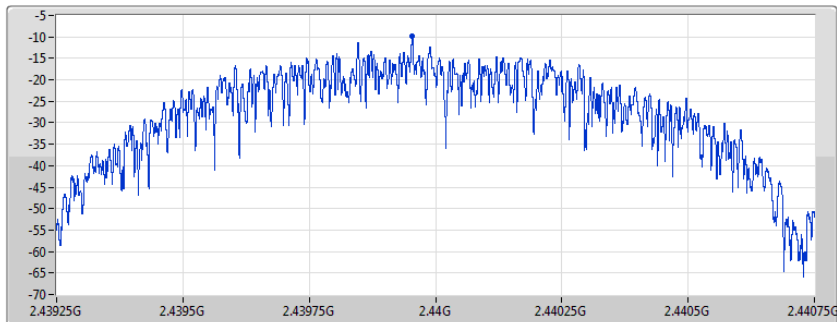
BT-LE(1Mbps)

PSD

2440MHz

13/09/2018

CF
2.44GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
32.1ms
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.75	-9.75	-9.75

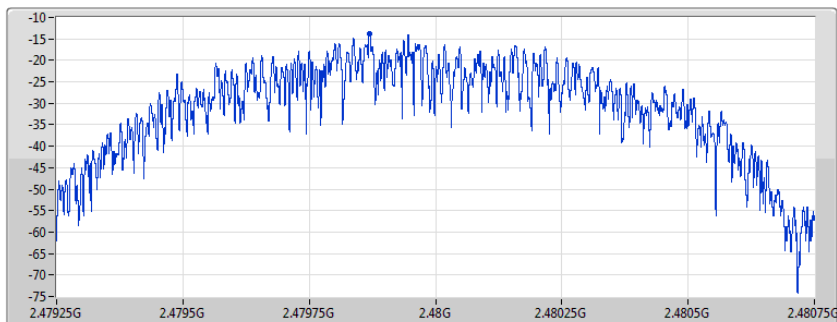
BT-LE(1Mbps)

PSD

2480MHz

13/09/2018

CF
2.48GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
32.1ms
Detector Type
Peak



Port 1

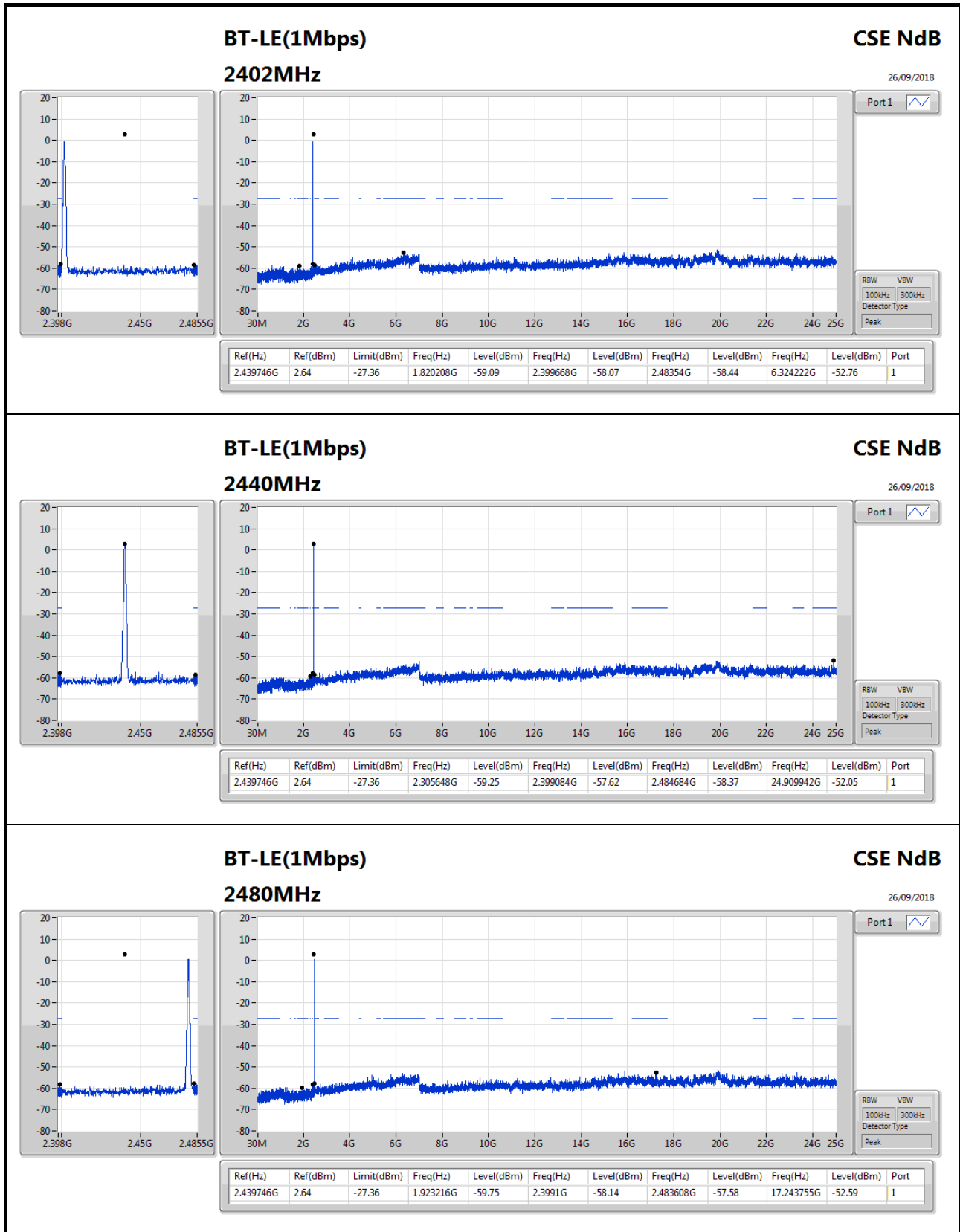
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-13.80	-13.80	-13.80

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.439746G	2.64	-27.36	2.305648G	-59.25	2.399084G	-57.62	2.484684G	-58.37	24.909942G	-52.05	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	2.439746G	2.64	-27.36	1.820208G	-59.09	2.399668G	-58.07	2.48354G	-58.44	6.324222G	-52.76	1
2440MHz_TnomVnom	Pass	2.439746G	2.64	-27.36	2.305648G	-59.25	2.399084G	-57.62	2.484684G	-58.37	24.909942G	-52.05	1
2480MHz_TnomVnom	Pass	2.439746G	2.64	-27.36	1.923216G	-59.75	2.3991G	-58.14	2.483608G	-57.58	17.243755G	-52.59	1

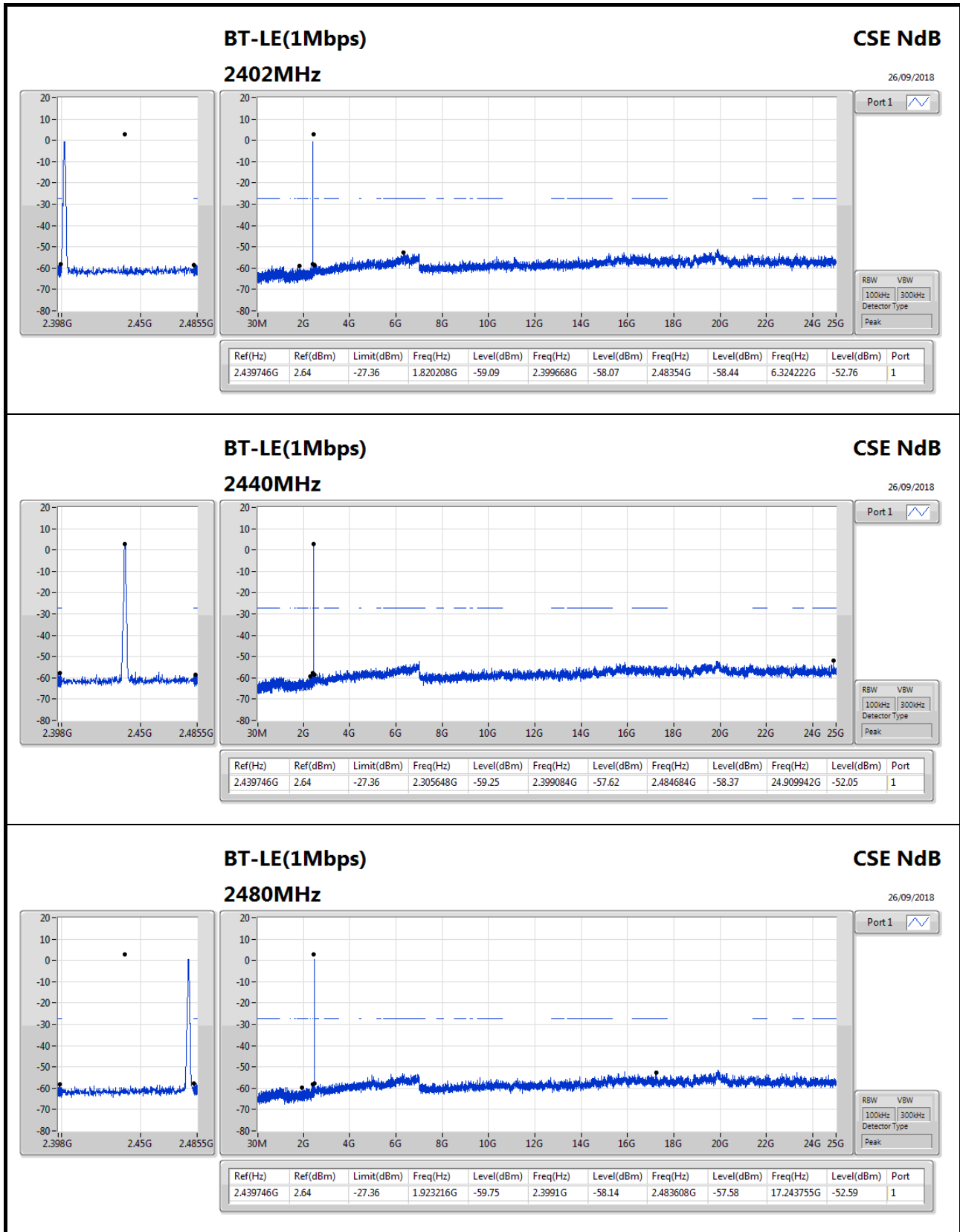


Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.439746G	2.64	-27.36	2.305648G	-59.25	2.399084G	-57.62	2.484684G	-58.37	24.909942G	-52.05	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	2.439746G	2.64	-27.36	1.820208G	-59.09	2.399668G	-58.07	2.48354G	-58.44	6.324222G	-52.76	1
2440MHz_TnomVnom	Pass	2.439746G	2.64	-27.36	2.305648G	-59.25	2.399084G	-57.62	2.484684G	-58.37	24.909942G	-52.05	1
2480MHz_TnomVnom	Pass	2.439746G	2.64	-27.36	1.923216G	-59.75	2.3991G	-58.14	2.483608G	-57.58	17.243755G	-52.59	1



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)_1TX	Pass	PK	650.8M	43.45	46.00	-2.55	-9.96	3	Horizontal	360	1.00	-

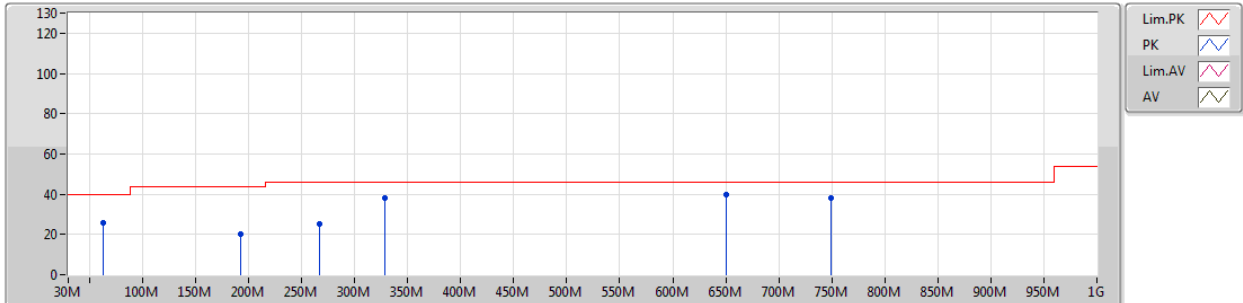
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	62.98M	25.77	40.00	-14.23	-25.58	3	Vertical	0	1.00	-
2440MHz	Pass	PK	192.96M	20.45	43.50	-23.05	-21.29	3	Vertical	0	1.00	-
2440MHz	Pass	PK	266.68M	25.10	46.00	-20.90	-16.12	3	Vertical	0	1.00	-
2440MHz	Pass	PK	328.76M	38.14	46.00	-7.86	-16.12	3	Vertical	0	1.00	-
2440MHz	Pass	PK	650.8M	39.76	46.00	-6.24	-9.96	3	Vertical	0	1.00	-
2440MHz	Pass	PK	749.74M	38.27	46.00	-7.73	-8.38	3	Vertical	0	1.00	-
2440MHz	Pass	PK	80.44M	23.20	40.00	-16.80	-23.86	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	194.9M	26.18	43.50	-17.32	-21.22	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	262.8M	30.00	46.00	-16.00	-15.85	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	319.06M	39.33	46.00	-6.67	-16.42	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	650.8M	43.45	46.00	-2.55	-9.96	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	749.74M	42.15	46.00	-3.85	-8.38	3	Horizontal	360	1.00	-

BT-LE(1Mbps)_1TX

2440MHz_Switching Power Supply

20/09/2018

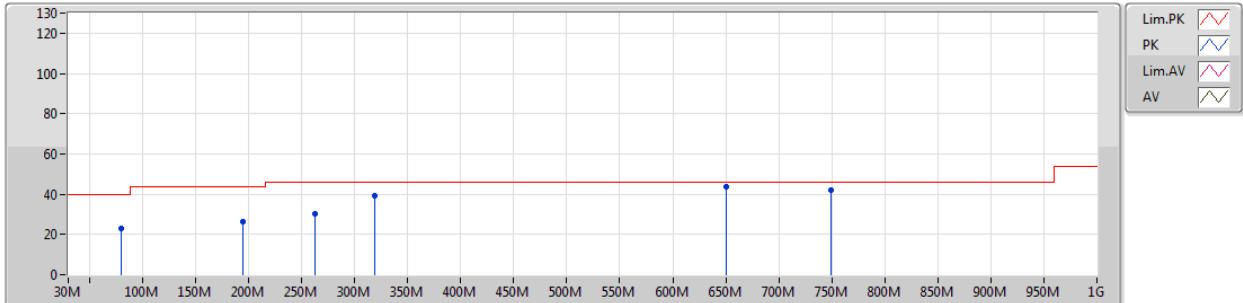


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	62.98M	25.77	40.00	-14.23	-25.58	3	Vertical	0	1.00	-
PK	192.96M	20.45	43.50	-23.05	-21.29	3	Vertical	0	1.00	-
PK	266.68M	25.10	46.00	-20.90	-16.12	3	Vertical	0	1.00	-
PK	328.76M	38.14	46.00	-7.86	-16.12	3	Vertical	0	1.00	-
PK	650.8M	39.76	46.00	-6.24	-9.96	3	Vertical	0	1.00	-
PK	749.74M	38.27	46.00	-7.73	-8.38	3	Vertical	0	1.00	-

BT-LE(1Mbps)_1TX

20/09/2018

2440MHz_Switching Power Supply



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	80.44M	23.20	40.00	-16.80	-23.86	3	Horizontal	360	1.00	-
PK	194.9M	26.18	43.50	-17.32	-21.22	3	Horizontal	360	1.00	-
PK	262.8M	30.00	46.00	-16.00	-15.85	3	Horizontal	360	1.00	-
PK	319.06M	39.33	46.00	-6.67	-16.42	3	Horizontal	360	1.00	-
PK	650.8M	43.45	46.00	-2.55	-9.96	3	Horizontal	360	1.00	-
PK	749.74M	42.15	46.00	-3.85	-8.38	3	Horizontal	360	1.00	-

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)_1TX	Pass	AV	2.494G	47.30	54.00	-6.70	31.15	3	Vertical	197	1.25	-

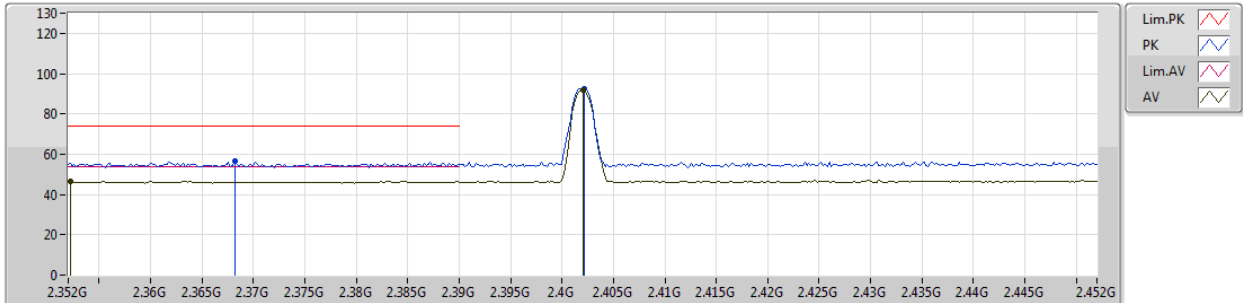
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3522G	46.62	54.00	-7.38	30.65	3	Vertical	192	1.01	-
2402MHz	Pass	AV	2.402G	91.65	Inf	-Inf	30.82	3	Vertical	192	1.01	-
2402MHz	Pass	PK	2.3682G	56.84	74.00	-17.16	30.70	3	Vertical	192	1.01	-
2402MHz	Pass	PK	2.4022G	92.43	Inf	-Inf	30.82	3	Vertical	192	1.01	-
2402MHz	Pass	AV	2.3772G	46.43	54.00	-7.57	30.73	3	Horizontal	188	2.13	-
2402MHz	Pass	AV	2.402G	97.39	Inf	-Inf	30.82	3	Horizontal	188	2.13	-
2402MHz	Pass	PK	2.3628G	55.99	74.00	-18.01	30.68	3	Horizontal	188	2.13	-
2402MHz	Pass	PK	2.4022G	98.11	Inf	-Inf	30.82	3	Horizontal	188	2.13	-
2402MHz	Pass	AV	4.80188G	33.48	54.00	-20.52	2.07	3	Vertical	338	1.70	-
2402MHz	Pass	PK	4.80882G	43.76	74.00	-30.24	2.09	3	Vertical	338	1.70	-
2402MHz	Pass	AV	4.80202G	33.43	54.00	-20.57	2.07	3	Horizontal	269	2.01	-
2402MHz	Pass	PK	4.80706G	43.51	74.00	-30.49	2.08	3	Horizontal	269	2.01	-
2440MHz	Pass	AV	2.3756G	46.40	54.00	-7.60	30.72	3	Vertical	197	1.25	-
2440MHz	Pass	AV	2.44G	95.50	Inf	-Inf	30.95	3	Vertical	197	1.25	-
2440MHz	Pass	AV	2.494G	47.30	54.00	-6.70	31.15	3	Vertical	197	1.25	-
2440MHz	Pass	PK	2.3452G	56.28	74.00	-17.72	30.62	3	Vertical	197	1.25	-
2440MHz	Pass	PK	2.4404G	96.24	Inf	-Inf	30.95	3	Vertical	197	1.25	-
2440MHz	Pass	PK	2.4872G	56.29	74.00	-17.71	31.12	3	Vertical	197	1.25	-
2440MHz	Pass	AV	2.3492G	46.21	54.00	-7.79	30.63	3	Horizontal	192	2.02	-
2440MHz	Pass	AV	2.44G	101.02	Inf	-Inf	30.95	3	Horizontal	192	2.02	-
2440MHz	Pass	AV	2.4976G	47.19	54.00	-6.81	31.16	3	Horizontal	192	2.02	-
2440MHz	Pass	PK	2.3792G	56.31	74.00	-17.69	30.74	3	Horizontal	192	2.02	-
2440MHz	Pass	PK	2.4404G	101.82	Inf	-Inf	30.95	3	Horizontal	192	2.02	-
2440MHz	Pass	PK	2.4844G	56.57	74.00	-17.43	31.12	3	Horizontal	192	2.02	-
2440MHz	Pass	AV	4.8842G	33.73	54.00	-20.27	2.28	3	Vertical	160	1.97	-
2440MHz	Pass	PK	4.87746G	43.95	74.00	-30.05	2.26	3	Vertical	160	1.97	-
2440MHz	Pass	AV	4.88254G	33.56	54.00	-20.44	2.27	3	Horizontal	237	2.05	-
2440MHz	Pass	PK	4.88152G	44.81	74.00	-29.19	2.27	3	Horizontal	237	2.05	-
2480MHz	Pass	AV	2.48G	91.96	Inf	-Inf	31.09	3	Vertical	191	1.42	-
2480MHz	Pass	AV	2.494G	47.17	54.00	-6.83	31.15	3	Vertical	191	1.42	-
2480MHz	Pass	PK	2.4798G	92.80	Inf	-Inf	31.09	3	Vertical	191	1.42	-
2480MHz	Pass	PK	2.4948G	56.11	74.00	-17.89	31.16	3	Vertical	191	1.42	-
2480MHz	Pass	AV	2.48G	98.09	Inf	-Inf	31.09	3	Horizontal	190	1.98	-
2480MHz	Pass	AV	2.495G	47.27	54.00	-6.73	31.16	3	Horizontal	190	1.98	-
2480MHz	Pass	PK	2.4798G	98.95	Inf	-Inf	31.09	3	Horizontal	190	1.98	-
2480MHz	Pass	PK	2.4918G	56.52	74.00	-17.48	31.14	3	Horizontal	190	1.98	-
2480MHz	Pass	AV	4.96114G	33.81	54.00	-20.19	2.47	3	Vertical	271	2.26	-
2480MHz	Pass	PK	4.95552G	43.35	74.00	-30.65	2.46	3	Vertical	271	2.26	-
2480MHz	Pass	AV	4.96274G	33.95	54.00	-20.05	2.47	3	Horizontal	242	1.78	-
2480MHz	Pass	PK	4.95888G	43.54	74.00	-30.46	2.46	3	Horizontal	242	1.78	-

BT-LE(1Mbps)_1TX

2402MHz_TX

18/09/2018

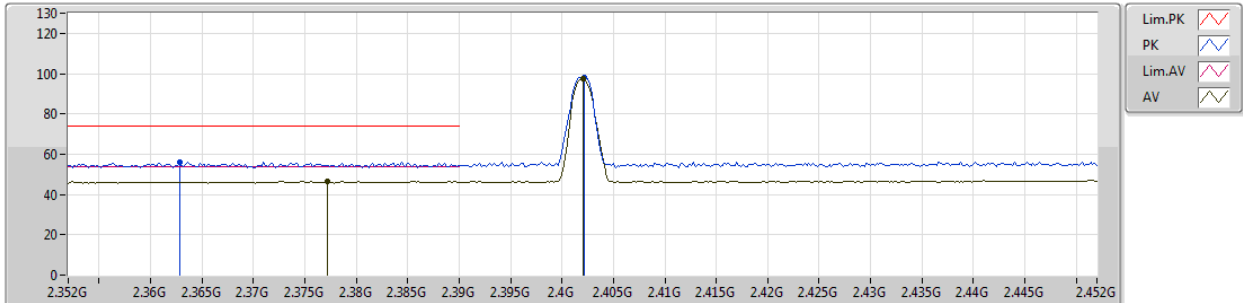


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3522G	46.62	54.00	-7.38	30.65	3	Vertical	192	1.01	-
AV	2.402G	91.65	Inf	-Inf	30.82	3	Vertical	192	1.01	-
PK	2.3682G	56.84	74.00	-17.16	30.70	3	Vertical	192	1.01	-
PK	2.4022G	92.43	Inf	-Inf	30.82	3	Vertical	192	1.01	-

BT-LE(1Mbps)_1TX

2402MHz_TX

18/09/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3772G	46.43	54.00	-7.57	30.73	3	Horizontal	188	2.13	-
AV	2.402G	97.39	Inf	-Inf	30.82	3	Horizontal	188	2.13	-
PK	2.3628G	55.99	74.00	-18.01	30.68	3	Horizontal	188	2.13	-
PK	2.4022G	98.11	Inf	-Inf	30.82	3	Horizontal	188	2.13	-

BT-LE(1Mbps)_1TX

2402MHz_TX

18/09/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	4.80188G	33.48	54.00	-20.52	2.07	3	Vertical	338	1.70	-								
PK	4.80882G	43.76	74.00	-30.24	2.09	3	Vertical	338	1.70	-								

BT-LE(1Mbps)_1TX

2402MHz_TX

18/09/2018

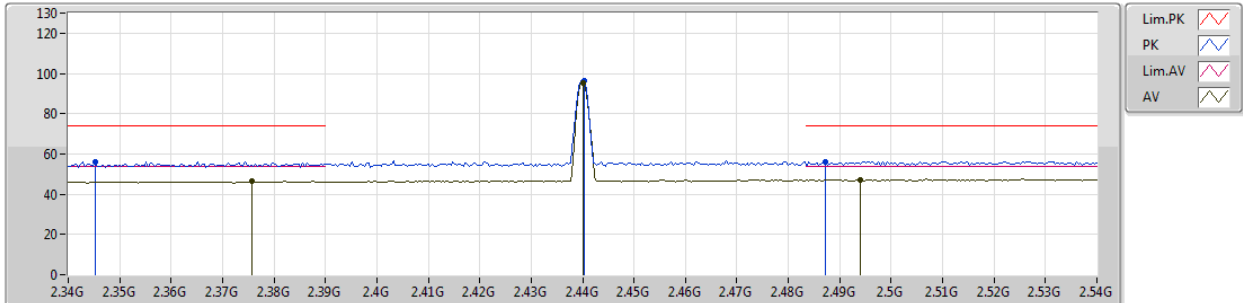


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.80202G	33.43	54.00	-20.57	2.07	3	Horizontal	269	2.01	-
PK	4.80706G	43.51	74.00	-30.49	2.08	3	Horizontal	269	2.01	-

BT-LE(1Mbps)_1TX

2440MHz_TX

18/09/2018

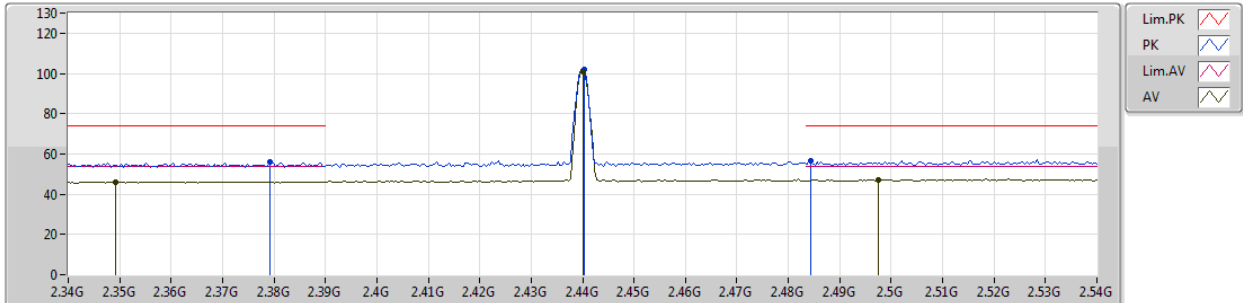


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3756G	46.40	54.00	-7.60	30.72	3	Vertical	197	1.25	-
AV	2.44G	95.50	Inf	-Inf	30.95	3	Vertical	197	1.25	-
AV	2.494G	47.30	54.00	-6.70	31.15	3	Vertical	197	1.25	-
PK	2.3452G	56.28	74.00	-17.72	30.62	3	Vertical	197	1.25	-
PK	2.4404G	96.24	Inf	-Inf	30.95	3	Vertical	197	1.25	-
PK	2.4872G	56.29	74.00	-17.71	31.12	3	Vertical	197	1.25	-

BT-LE(1Mbps)_1TX

2440MHz_TX

18/09/2018

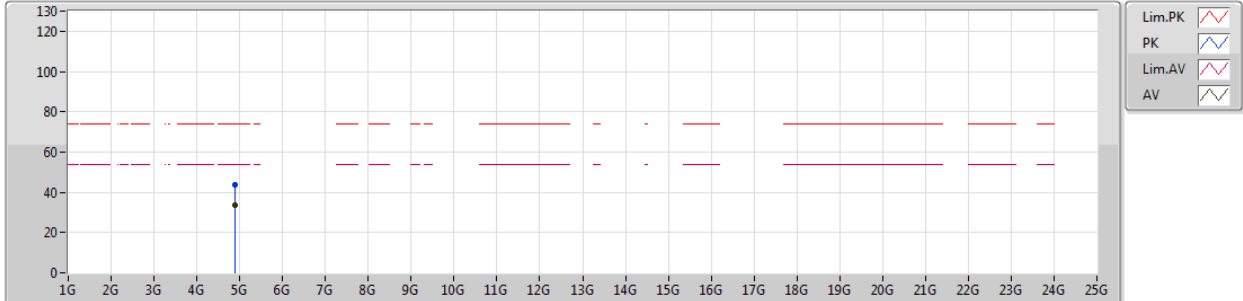


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3492G	46.21	54.00	-7.79	30.63	3	Horizontal	192	2.02	-
AV	2.44G	101.02	Inf	-Inf	30.95	3	Horizontal	192	2.02	-
AV	2.4976G	47.19	54.00	-6.81	31.16	3	Horizontal	192	2.02	-
PK	2.3792G	56.31	74.00	-17.69	30.74	3	Horizontal	192	2.02	-
PK	2.4404G	101.82	Inf	-Inf	30.95	3	Horizontal	192	2.02	-
PK	2.4844G	56.57	74.00	-17.43	31.12	3	Horizontal	192	2.02	-

BT-LE(1Mbps)_1TX

2440MHz_TX

18/09/2018

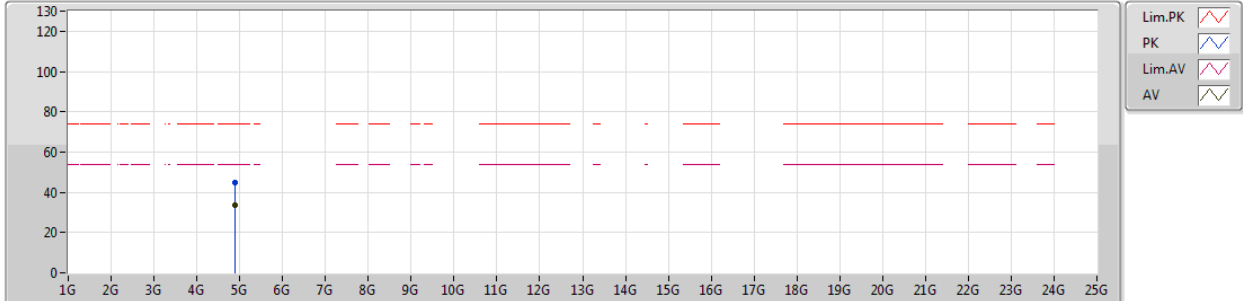


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	4.8842G	33.73	54.00	-20.27	2.28	3	Vertical	160	1.97	-								
PK	4.87746G	43.95	74.00	-30.05	2.26	3	Vertical	160	1.97	-								

BT-LE(1Mbps)_1TX

2440MHz_TX

18/09/2018

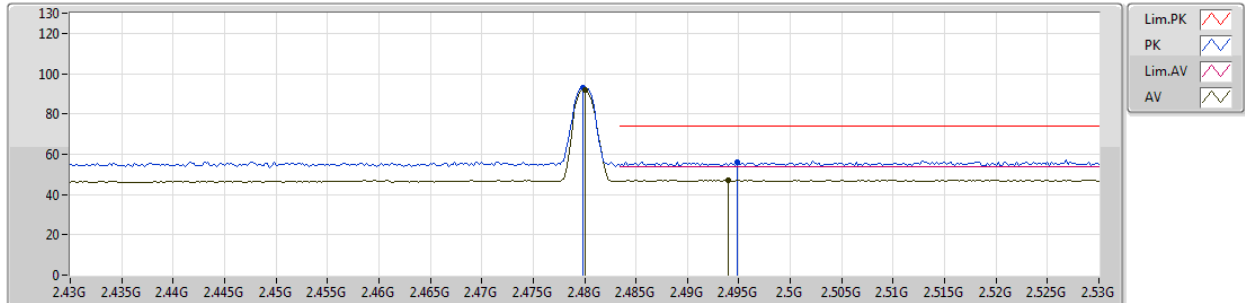


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	4.88254G	33.56	54.00	-20.44	2.27	3	Horizontal	237	2.05	-							
PK	4.88152G	44.81	74.00	-29.19	2.27	3	Horizontal	237	2.05	-							

BT-LE(1Mbps)_1TX

2480MHz_TX

18/09/2018

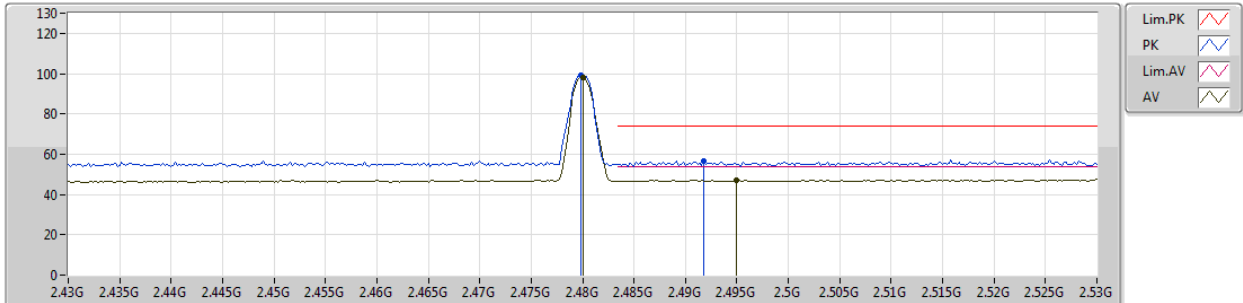


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	91.96	Inf	-Inf	31.09	3	Vertical	191	1.42	-
AV	2.494G	47.17	54.00	-6.83	31.15	3	Vertical	191	1.42	-
PK	2.4798G	92.80	Inf	-Inf	31.09	3	Vertical	191	1.42	-
PK	2.4948G	56.11	74.00	-17.89	31.16	3	Vertical	191	1.42	-

BT-LE(1Mbps)_1TX

2480MHz_TX

18/09/2018

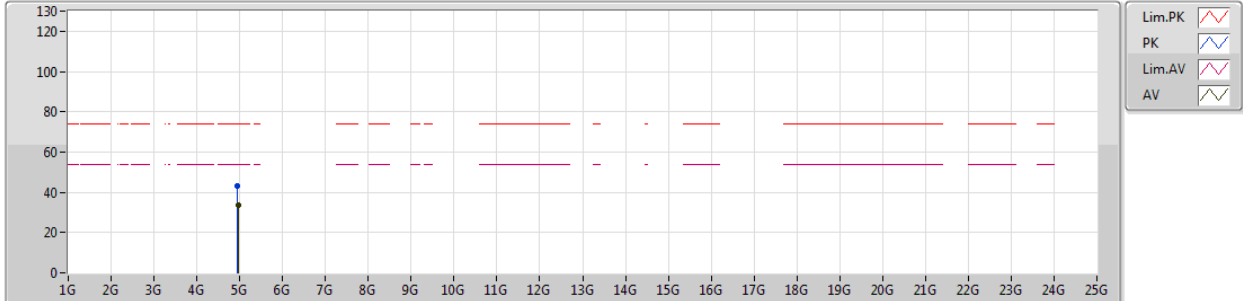


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	98.09	Inf	-Inf	31.09	3	Horizontal	190	1.98	-
AV	2.495G	47.27	54.00	-6.73	31.16	3	Horizontal	190	1.98	-
PK	2.4798G	98.95	Inf	-Inf	31.09	3	Horizontal	190	1.98	-
PK	2.4918G	56.52	74.00	-17.48	31.14	3	Horizontal	190	1.98	-

BT-LE(1Mbps)_1TX

2480MHz_TX

18/09/2018

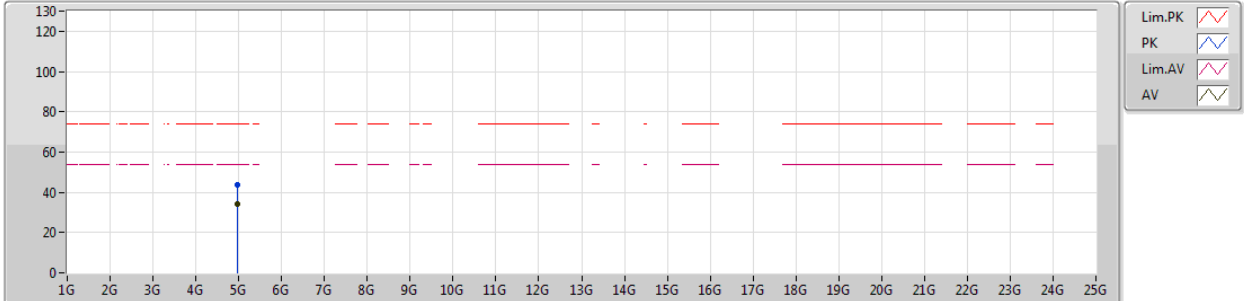


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.96114G	33.81	54.00	-20.19	2.47	3	Vertical	271	2.26	-
PK	4.95552G	43.35	74.00	-30.65	2.46	3	Vertical	271	2.26	-

BT-LE(1Mbps)_1TX

2480MHz_TX

18/09/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.96274G	33.95	54.00	-20.05	2.47	3	Horizontal	242	1.78	-
PK	4.95888G	43.54	74.00	-30.46	2.46	3	Horizontal	242	1.78	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)_1TX	Pass	PK	326.82M	41.45	46.00	-4.55	-16.18	3	Horizontal	360	1.00	-

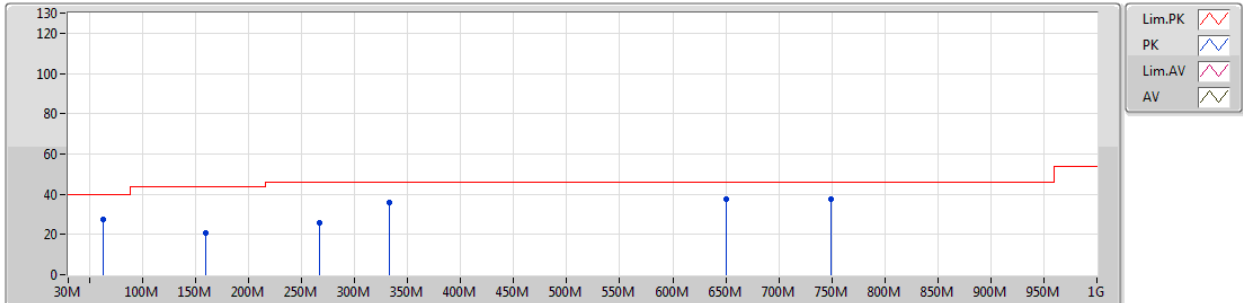
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	62.98M	27.48	40.00	-12.52	-25.58	3	Vertical	0	1.00	-
2440MHz	Pass	PK	159.98M	20.68	43.50	-22.82	-19.97	3	Vertical	0	1.00	-
2440MHz	Pass	PK	266.68M	25.70	46.00	-20.30	-16.12	3	Vertical	0	1.00	-
2440MHz	Pass	PK	332.64M	35.67	46.00	-10.33	-15.99	3	Vertical	0	1.00	-
2440MHz	Pass	PK	650.8M	37.58	46.00	-8.42	-9.96	3	Vertical	0	1.00	-
2440MHz	Pass	PK	749.74M	37.65	46.00	-8.35	-8.38	3	Vertical	0	1.00	-
2440MHz	Pass	PK	68.8M	25.08	40.00	-14.92	-25.21	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	117.3M	27.29	43.50	-16.21	-19.47	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	225.94M	30.45	46.00	-15.55	-20.24	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	326.82M	41.45	46.00	-4.55	-16.18	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	650.8M	40.02	46.00	-5.98	-9.96	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	749.74M	41.09	46.00	-4.91	-8.38	3	Horizontal	360	1.00	-

BT-LE(1Mbps)_1TX

20/09/2018

2440MHz_Switching Power Supply

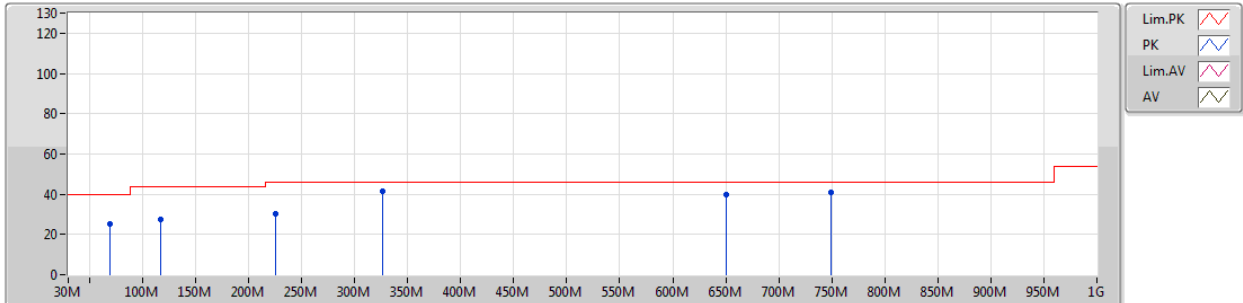


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	62.98M	27.48	40.00	-12.52	-25.58	3	Vertical	0	1.00	-
PK	159.98M	20.68	43.50	-22.82	-19.97	3	Vertical	0	1.00	-
PK	266.68M	25.70	46.00	-20.30	-16.12	3	Vertical	0	1.00	-
PK	332.64M	35.67	46.00	-10.33	-15.99	3	Vertical	0	1.00	-
PK	650.8M	37.58	46.00	-8.42	-9.96	3	Vertical	0	1.00	-
PK	749.74M	37.65	46.00	-8.35	-8.38	3	Vertical	0	1.00	-

BT-LE(1Mbps)_1TX

2440MHz_Switching Power Supply

20/09/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	68.8M	25.08	40.00	-14.92	-25.21	3	Horizontal	360	1.00	-
PK	117.3M	27.29	43.50	-16.21	-19.47	3	Horizontal	360	1.00	-
PK	225.94M	30.45	46.00	-15.55	-20.24	3	Horizontal	360	1.00	-
PK	326.82M	41.45	46.00	-4.55	-16.18	3	Horizontal	360	1.00	-
PK	650.8M	40.02	46.00	-5.98	-9.96	3	Horizontal	360	1.00	-
PK	749.74M	41.09	46.00	-4.91	-8.38	3	Horizontal	360	1.00	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)_1TX	Pass	AV	2.4996G	49.49	54.00	-4.51	32.34	3	Vertical	215	1.50	-

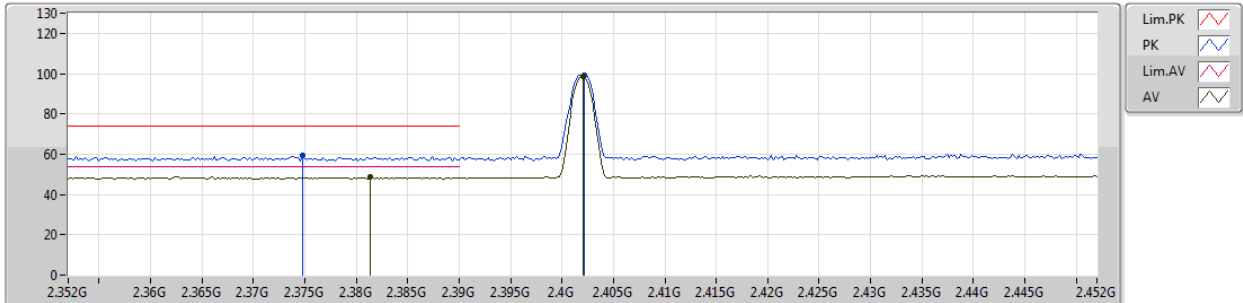
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3814G	48.59	54.00	-5.41	31.98	3	Vertical	218	1.50	-
2402MHz	Pass	AV	2.402G	98.63	Inf	-Inf	32.04	3	Vertical	218	1.50	-
2402MHz	Pass	PK	2.3748G	59.13	74.00	-14.87	31.95	3	Vertical	218	1.50	-
2402MHz	Pass	PK	2.4022G	99.29	Inf	-Inf	32.05	3	Vertical	218	1.50	-
2402MHz	Pass	AV	4.80316G	34.67	54.00	-19.33	3.34	3	Vertical	0	2.59	-
2402MHz	Pass	PK	4.81306G	45.55	74.00	-28.45	3.36	3	Vertical	0	2.59	-
2402MHz	Pass	AV	4.78954G	34.67	54.00	-19.33	3.30	3	Horizontal	287	1.29	-
2402MHz	Pass	PK	4.79236G	46.17	74.00	-27.83	3.31	3	Horizontal	287	1.29	-
2440MHz	Pass	AV	2.3532G	48.78	54.00	-5.22	31.88	3	Vertical	215	1.50	-
2440MHz	Pass	AV	2.44G	101.24	Inf	-Inf	32.16	3	Vertical	215	1.50	-
2440MHz	Pass	AV	2.4996G	49.49	54.00	-4.51	32.34	3	Vertical	215	1.50	-
2440MHz	Pass	PK	2.37G	59.12	74.00	-14.88	31.94	3	Vertical	215	1.50	-
2440MHz	Pass	PK	2.4396G	101.94	Inf	-Inf	32.16	3	Vertical	215	1.50	-
2440MHz	Pass	PK	2.4976G	60.30	74.00	-13.70	32.33	3	Vertical	215	1.50	-
2440MHz	Pass	AV	4.87376G	33.45	54.00	-20.55	3.50	3	Vertical	353	1.61	-
2440MHz	Pass	AV	7.32846G	39.33	54.00	-14.67	8.98	3	Vertical	0	1.50	-
2440MHz	Pass	PK	4.8731G	45.65	74.00	-28.35	3.50	3	Vertical	353	1.61	-
2440MHz	Pass	PK	7.33284G	51.61	74.00	-22.39	8.99	3	Vertical	0	1.50	-
2440MHz	Pass	AV	4.8728G	33.06	54.00	-20.94	3.50	3	Horizontal	197	1.50	-
2440MHz	Pass	AV	7.32504G	39.32	54.00	-14.68	8.97	3	Horizontal	95	1.50	-
2440MHz	Pass	PK	4.88624G	46.11	74.00	-27.89	3.54	3	Horizontal	197	1.50	-
2440MHz	Pass	PK	7.3128G	51.74	74.00	-22.26	8.96	3	Horizontal	95	1.50	-
2480MHz	Pass	AV	2.48G	100.20	Inf	-Inf	32.28	3	Vertical	215	1.50	-
2480MHz	Pass	AV	2.4984G	49.49	54.00	-4.51	32.34	3	Vertical	215	1.50	-
2480MHz	Pass	PK	2.4798G	101.02	Inf	-Inf	32.28	3	Vertical	215	1.50	-
2480MHz	Pass	PK	2.4954G	60.30	74.00	-13.70	32.33	3	Vertical	215	1.50	-
2480MHz	Pass	AV	4.95742G	35.00	54.00	-19.00	3.70	3	Vertical	35	2.28	-
2480MHz	Pass	AV	7.43274G	40.08	54.00	-13.92	9.23	3	Vertical	350	1.50	-
2480MHz	Pass	PK	4.94506G	46.78	74.00	-27.22	3.68	3	Vertical	35	2.28	-
2480MHz	Pass	PK	7.45476G	51.52	74.00	-22.48	9.33	3	Vertical	350	1.50	-
2480MHz	Pass	AV	4.95502G	34.90	54.00	-19.10	3.70	3	Horizontal	118	1.70	-
2480MHz	Pass	AV	7.4268G	40.10	54.00	-13.90	9.19	3	Horizontal	27	1.50	-
2480MHz	Pass	PK	4.94896G	45.79	74.00	-28.21	3.69	3	Horizontal	118	1.70	-
2480MHz	Pass	PK	7.4391G	51.09	74.00	-22.91	9.25	3	Horizontal	27	1.50	-

BT-LE(1Mbps)_1TX

2402MHz_TX

15/09/2018

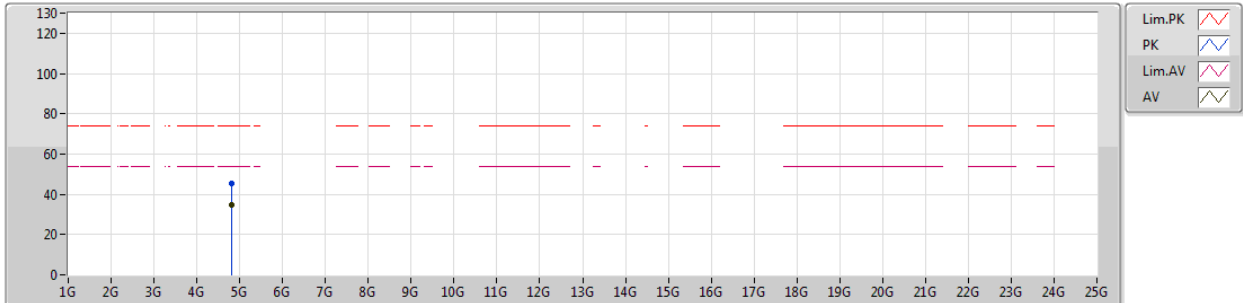


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	2.3814G	48.59	54.00	-5.41	31.98	3	Vertical	218	1.50	-								
AV	2.402G	98.63	Inf	-Inf	32.04	3	Vertical	218	1.50	-								
PK	2.3748G	59.13	74.00	-14.87	31.95	3	Vertical	218	1.50	-								
PK	2.4022G	99.29	Inf	-Inf	32.05	3	Vertical	218	1.50	-								

BT-LE(1Mbps)_1TX

2402MHz_TX

15/09/2018

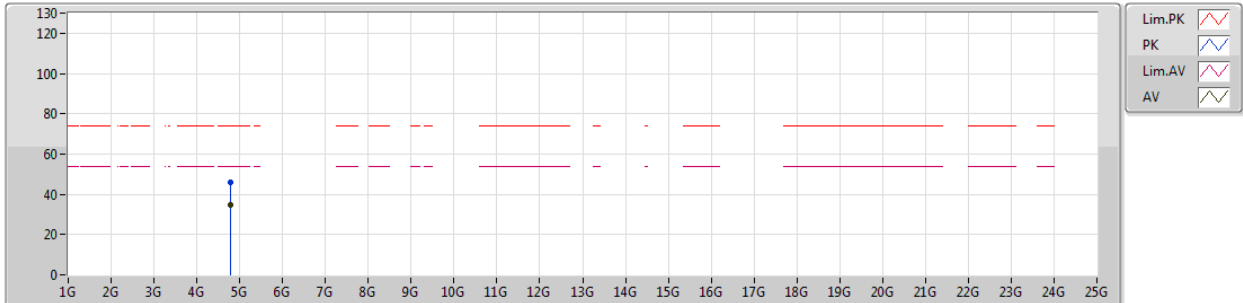


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.80316G	34.67	54.00	-19.33	3.34	3	Vertical	0	2.59	-
PK	4.81306G	45.55	74.00	-28.45	3.36	3	Vertical	0	2.59	-

BT-LE(1Mbps)_1TX

2402MHz_TX

15/09/2018

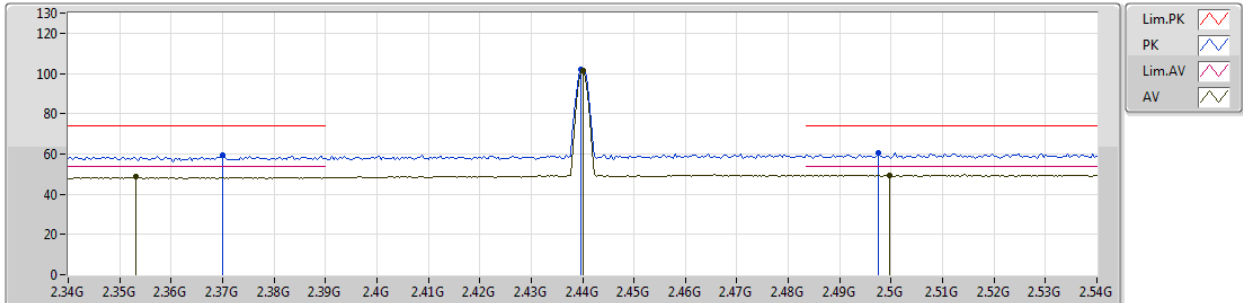


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.78954G	34.67	54.00	-19.33	3.30	3	Horizontal	287	1.29	-
PK	4.79236G	46.17	74.00	-27.83	3.31	3	Horizontal	287	1.29	-

BT-LE(1Mbps)_1TX

2440MHz_TX

15/09/2018

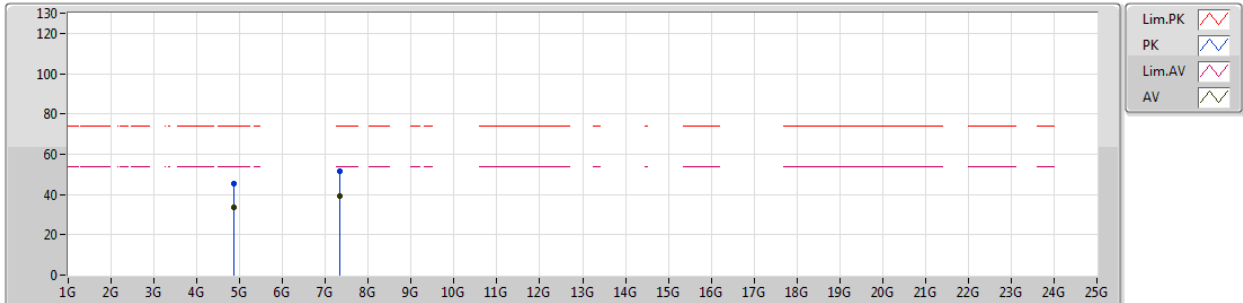


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3532G	48.78	54.00	-5.22	31.88	3	Vertical	215	1.50	-
AV	2.44G	101.24	Inf	-Inf	32.16	3	Vertical	215	1.50	-
AV	2.4996G	49.49	54.00	-4.51	32.34	3	Vertical	215	1.50	-
PK	2.37G	59.12	74.00	-14.88	31.94	3	Vertical	215	1.50	-
PK	2.4396G	101.94	Inf	-Inf	32.16	3	Vertical	215	1.50	-
PK	2.4976G	60.30	74.00	-13.70	32.33	3	Vertical	215	1.50	-

BT-LE(1Mbps)_1TX

2440MHz_TX

15/09/2018

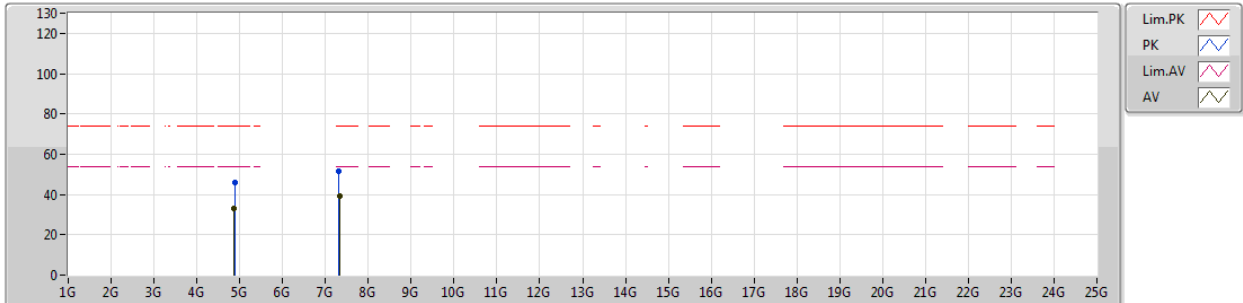


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87376G	33.45	54.00	-20.55	3.50	3	Vertical	353	1.61	-
AV	7.32846G	39.33	54.00	-14.67	8.98	3	Vertical	0	1.50	-
PK	4.8731G	45.65	74.00	-28.35	3.50	3	Vertical	353	1.61	-
PK	7.33284G	51.61	74.00	-22.39	8.99	3	Vertical	0	1.50	-

BT-LE(1Mbps)_1TX

2440MHz_TX

15/09/2018

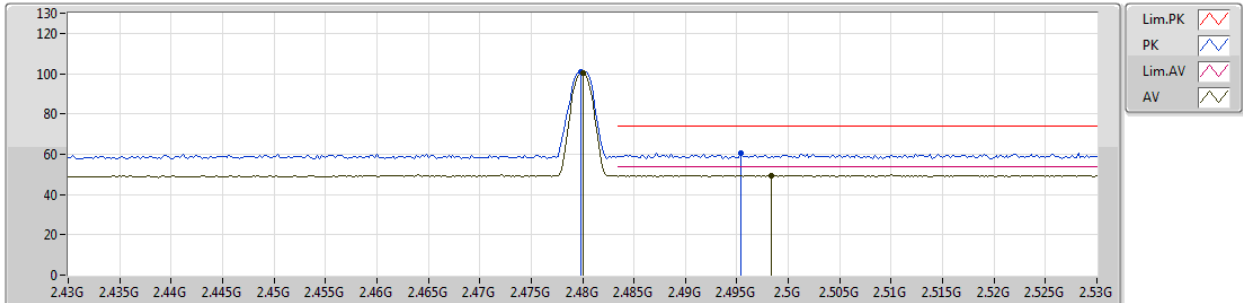


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8728G	33.06	54.00	-20.94	3.50	3	Horizontal	197	1.50	-
AV	7.32504G	39.32	54.00	-14.68	8.97	3	Horizontal	95	1.50	-
PK	4.88624G	46.11	74.00	-27.89	3.54	3	Horizontal	197	1.50	-
PK	7.3128G	51.74	74.00	-22.26	8.96	3	Horizontal	95	1.50	-

BT-LE(1Mbps)_1TX

2480MHz_TX

15/09/2018

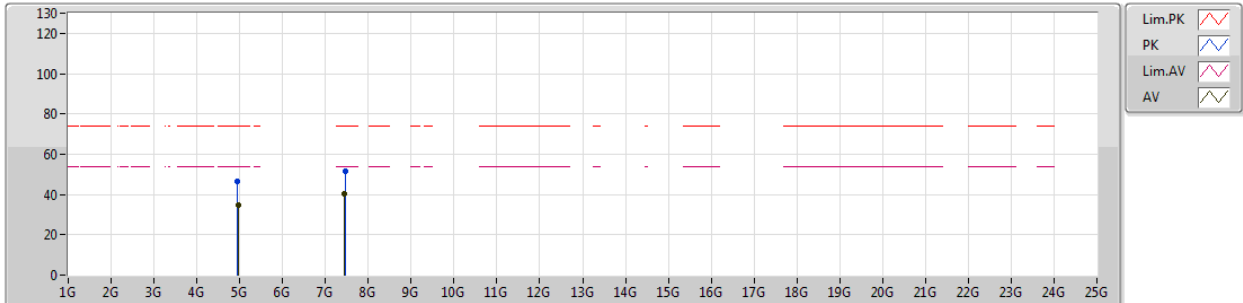


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	100.20	Inf	-Inf	32.28	3	Vertical	215	1.50	-
AV	2.4984G	49.49	54.00	-4.51	32.34	3	Vertical	215	1.50	-
PK	2.4798G	101.02	Inf	-Inf	32.28	3	Vertical	215	1.50	-
PK	2.4954G	60.30	74.00	-13.70	32.33	3	Vertical	215	1.50	-

BT-LE(1Mbps)_1TX

2480MHz_TX

15/09/2018

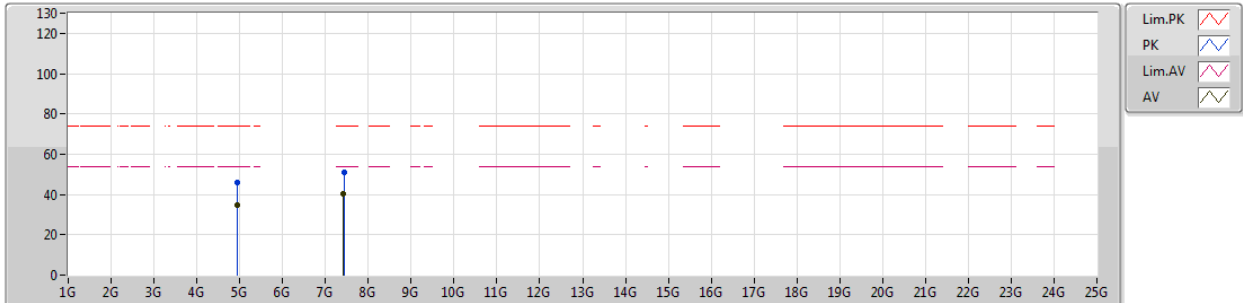


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.95742G	35.00	54.00	-19.00	3.70	3	Vertical	35	2.28	-
AV	7.43274G	40.08	54.00	-13.92	9.23	3	Vertical	350	1.50	-
PK	4.94506G	46.78	74.00	-27.22	3.68	3	Vertical	35	2.28	-
PK	7.45476G	51.52	74.00	-22.48	9.33	3	Vertical	350	1.50	-

BT-LE(1Mbps)_1TX

2480MHz_TX

15/09/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.95502G	34.90	54.00	-19.10	3.70	3	Horizontal	118	1.70	-
AV	7.4268G	40.10	54.00	-13.90	9.19	3	Horizontal	27	1.50	-
PK	4.94896G	45.79	74.00	-28.21	3.69	3	Horizontal	118	1.70	-
PK	7.4391G	51.09	74.00	-22.91	9.25	3	Horizontal	27	1.50	-

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)_1TX	Pass	PK	650.8M	43.22	46.00	-2.78	-9.96	3	Horizontal	0	1.00	-

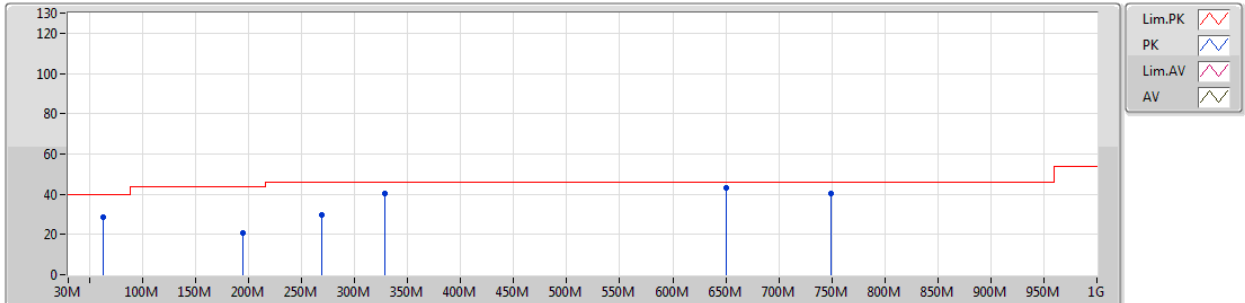
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	62.98M	28.77	40.00	-11.23	-25.58	3	Vertical	360	1.00	-
2440MHz	Pass	PK	194.9M	20.99	43.50	-22.51	-21.22	3	Vertical	360	1.00	-
2440MHz	Pass	PK	268.62M	29.52	46.00	-16.48	-16.26	3	Vertical	360	1.00	-
2440MHz	Pass	PK	328.76M	40.31	46.00	-5.69	-16.12	3	Vertical	360	1.00	-
2440MHz	Pass	PK	650.8M	42.95	46.00	-3.05	-9.96	3	Vertical	360	1.00	-
2440MHz	Pass	PK	749.74M	40.15	46.00	-5.85	-8.38	3	Vertical	360	1.00	-
2440MHz	Pass	PK	80.44M	26.67	40.00	-13.33	-23.86	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	111.48M	26.53	43.50	-16.97	-19.88	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	196.84M	26.04	43.50	-17.46	-21.15	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	332.64M	41.21	46.00	-4.79	-15.99	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	650.8M	43.22	46.00	-2.78	-9.96	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	749.74M	42.05	46.00	-3.95	-8.38	3	Horizontal	0	1.00	-

BT-LE(1Mbps)_1RX

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2440MHz_Switching Power Supply

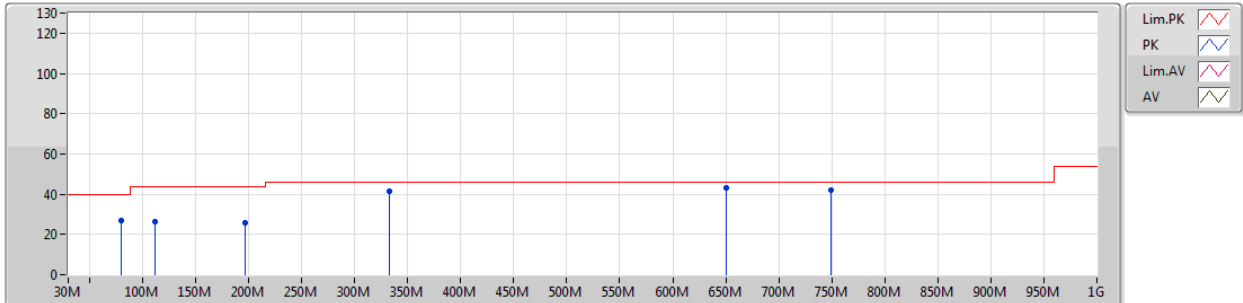


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	62.98M	28.77	40.00	-11.23	-25.58	3	Vertical	360	1.00	-
PK	194.9M	20.99	43.50	-22.51	-21.22	3	Vertical	360	1.00	-
PK	268.62M	29.52	46.00	-16.48	-16.26	3	Vertical	360	1.00	-
PK	328.76M	40.31	46.00	-5.69	-16.12	3	Vertical	360	1.00	-
PK	650.8M	42.95	46.00	-3.05	-9.96	3	Vertical	360	1.00	-
PK	749.74M	40.15	46.00	-5.85	-8.38	3	Vertical	360	1.00	-

BT-LE(1Mbps)_1RX

2440MHz_Switching Power Supply

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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	80.44M	26.67	40.00	-13.33	-23.86	3	Horizontal	0	1.00	-
PK	111.48M	26.53	43.50	-16.97	-19.88	3	Horizontal	0	1.00	-
PK	196.84M	26.04	43.50	-17.46	-21.15	3	Horizontal	0	1.00	-
PK	332.64M	41.21	46.00	-4.79	-15.99	3	Horizontal	0	1.00	-
PK	650.8M	43.22	46.00	-2.78	-9.96	3	Horizontal	0	1.00	-
PK	749.74M	42.05	46.00	-3.95	-8.38	3	Horizontal	0	1.00	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)_1TX	Pass	AV	3.207G	29.21	54.00	-24.79	-1.79	3	Vertical	269	1.86	-

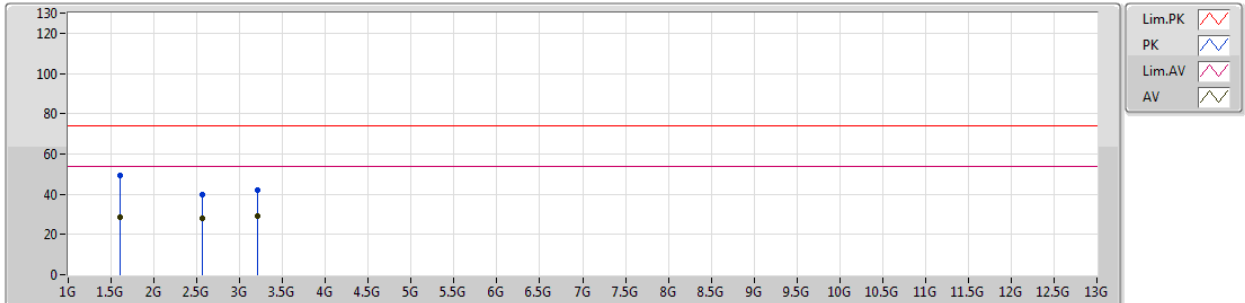
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	AV	1.602G	28.36	54.00	-25.64	-5.66	3	Vertical	206	1.38	-
2440MHz	Pass	AV	2.567G	28.12	54.00	-25.88	-3.11	3	Vertical	14	1.11	-
2440MHz	Pass	AV	3.207G	29.21	54.00	-24.79	-1.79	3	Vertical	269	1.86	-
2440MHz	Pass	PK	1.602G	49.20	74.00	-24.80	-5.66	3	Vertical	206	1.38	-
2440MHz	Pass	PK	2.567G	39.65	74.00	-34.35	-3.11	3	Vertical	14	1.11	-
2440MHz	Pass	PK	3.207G	42.07	74.00	-31.93	-1.79	3	Vertical	269	1.86	-
2440MHz	Pass	AV	1.334G	24.17	54.00	-29.83	-6.75	3	Horizontal	346	1.73	-
2440MHz	Pass	AV	2.264G	23.13	54.00	-30.87	-4.05	3	Horizontal	45	2.30	-
2440MHz	Pass	AV	3.192G	25.29	54.00	-28.71	-1.79	3	Horizontal	242	1.27	-
2440MHz	Pass	PK	1.334G	38.98	74.00	-35.02	-6.75	3	Horizontal	346	1.73	-
2440MHz	Pass	PK	2.264G	34.57	74.00	-39.43	-4.05	3	Horizontal	45	2.30	-
2440MHz	Pass	PK	3.192G	36.28	74.00	-37.72	-1.79	3	Horizontal	242	1.27	-

BT-LE(1Mbps)_1RX

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2440MHz_RX

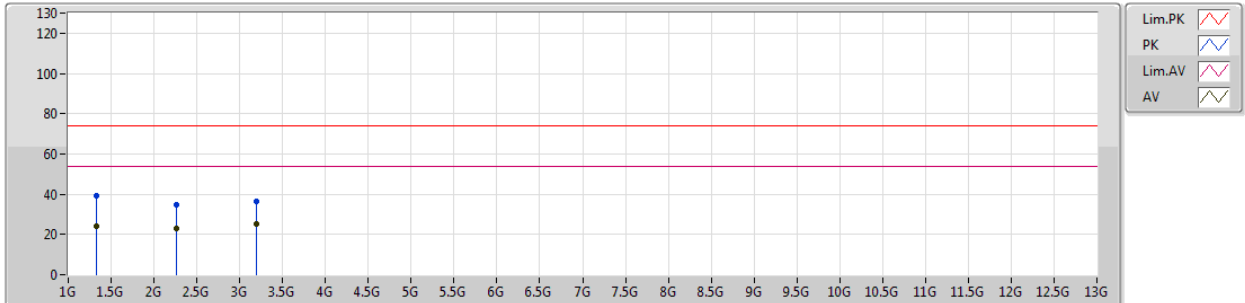


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	1.602G	28.36	54.00	-25.64	-5.66	3	Vertical	206	1.38	-							
AV	2.567G	28.12	54.00	-25.88	-3.11	3	Vertical	14	1.11	-							
AV	3.207G	29.21	54.00	-24.79	-1.79	3	Vertical	269	1.86	-							
PK	1.602G	49.20	74.00	-24.80	-5.66	3	Vertical	206	1.38	-							
PK	2.567G	39.65	74.00	-34.35	-3.11	3	Vertical	14	1.11	-							
PK	3.207G	42.07	74.00	-31.93	-1.79	3	Vertical	269	1.86	-							

BT-LE(1Mbps)_1RX

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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	1.334G	24.17	54.00	-29.83	-6.75	3	Horizontal	346	1.73	-
AV	2.264G	23.13	54.00	-30.87	-4.05	3	Horizontal	45	2.30	-
AV	3.192G	25.29	54.00	-28.71	-1.79	3	Horizontal	242	1.27	-
PK	1.334G	38.98	74.00	-35.02	-6.75	3	Horizontal	346	1.73	-
PK	2.264G	34.57	74.00	-39.43	-4.05	3	Horizontal	45	2.30	-
PK	3.192G	36.28	74.00	-37.72	-1.79	3	Horizontal	242	1.27	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)_1TX	Pass	PK	749.74M	41.18	46.00	-4.82	-8.38	3	Horizontal	0	1.00	-

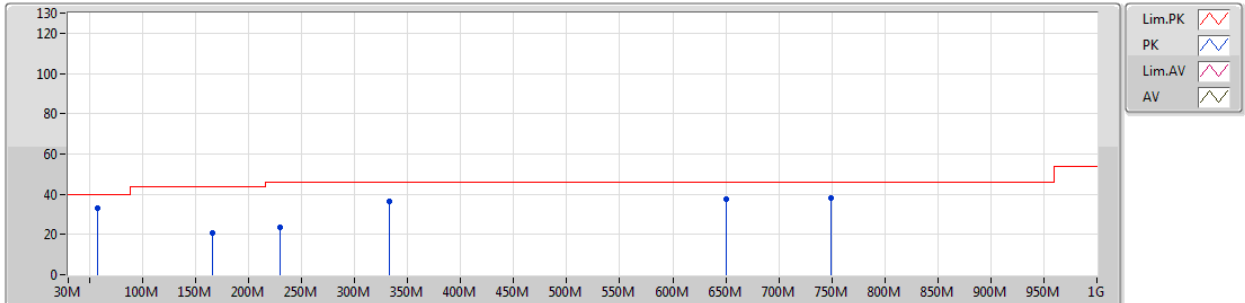
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	57.16M	32.88	40.00	-7.12	-25.37	3	Vertical	360	1.00	-
2440MHz	Pass	PK	165.8M	20.67	43.50	-22.83	-20.40	3	Vertical	360	1.00	-
2440MHz	Pass	PK	229.82M	23.28	46.00	-22.72	-19.80	3	Vertical	360	1.00	-
2440MHz	Pass	PK	332.64M	36.25	46.00	-9.75	-15.99	3	Vertical	360	1.00	-
2440MHz	Pass	PK	650.8M	37.57	46.00	-8.43	-9.96	3	Vertical	360	1.00	-
2440MHz	Pass	PK	749.74M	37.84	46.00	-8.16	-8.38	3	Vertical	360	1.00	-
2440MHz	Pass	PK	59.1M	20.22	40.00	-19.78	-25.56	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	163.86M	20.49	43.50	-23.01	-20.25	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	222.06M	28.64	46.00	-17.36	-20.68	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	328.76M	39.86	46.00	-6.14	-16.12	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	650.8M	39.88	46.00	-6.12	-9.96	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	749.74M	41.18	46.00	-4.82	-8.38	3	Horizontal	0	1.00	-

BT-LE(1Mbps)_1RX

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2440MHz_Switching Power Supply

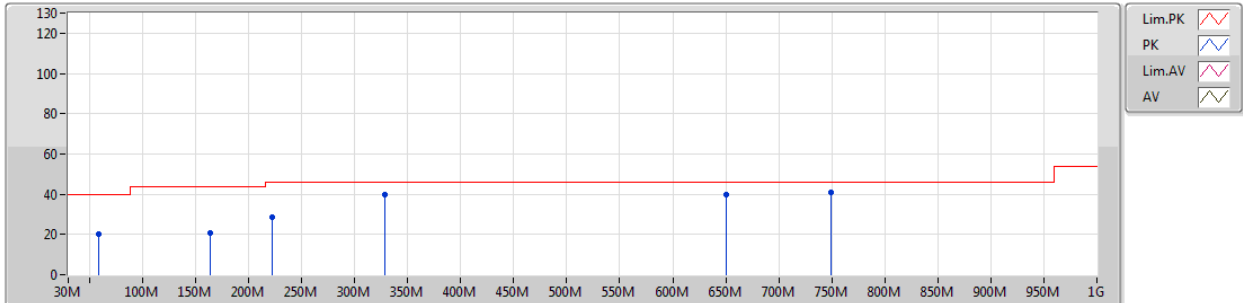


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	57.16M	32.88	40.00	-7.12	-25.37	3	Vertical	360	1.00	-
PK	165.8M	20.67	43.50	-22.83	-20.40	3	Vertical	360	1.00	-
PK	229.82M	23.28	46.00	-22.72	-19.80	3	Vertical	360	1.00	-
PK	332.64M	36.25	46.00	-9.75	-15.99	3	Vertical	360	1.00	-
PK	650.8M	37.57	46.00	-8.43	-9.96	3	Vertical	360	1.00	-
PK	749.74M	37.84	46.00	-8.16	-8.38	3	Vertical	360	1.00	-

BT-LE(1Mbps)_1RX

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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	59.1M	20.22	40.00	-19.78	-25.56	3	Horizontal	0	1.00	-
PK	163.86M	20.49	43.50	-23.01	-20.25	3	Horizontal	0	1.00	-
PK	222.06M	28.64	46.00	-17.36	-20.68	3	Horizontal	0	1.00	-
PK	328.76M	39.86	46.00	-6.14	-16.12	3	Horizontal	0	1.00	-
PK	650.8M	39.88	46.00	-6.12	-9.96	3	Horizontal	0	1.00	-
PK	749.74M	41.18	46.00	-4.82	-8.38	3	Horizontal	0	1.00	-

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)_1TX	Pass	AV	1.286G	29.00	54.00	-25.00	-7.00	3	Vertical	82	2.27	-

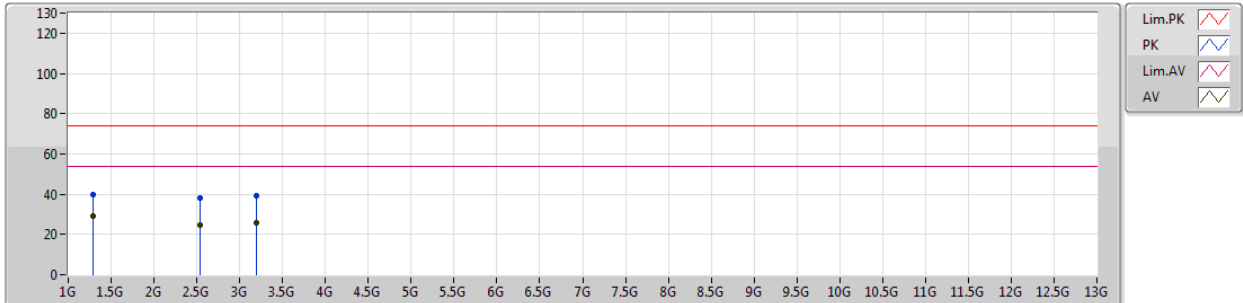
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	AV	1.286G	29.00	54.00	-25.00	-7.00	3	Vertical	82	2.27	-
2440MHz	Pass	AV	2.536G	24.76	54.00	-29.24	-3.19	3	Vertical	309	2.48	-
2440MHz	Pass	AV	3.199G	25.90	54.00	-28.10	-1.79	3	Vertical	46	1.02	-
2440MHz	Pass	PK	1.286G	39.92	74.00	-34.08	-7.00	3	Vertical	82	2.27	-
2440MHz	Pass	PK	2.536G	38.20	74.00	-35.80	-3.19	3	Vertical	309	2.48	-
2440MHz	Pass	PK	3.199G	39.44	74.00	-34.56	-1.79	3	Vertical	46	1.02	-
2440MHz	Pass	AV	1.286G	28.44	54.00	-25.56	-7.00	3	Horizontal	258	1.04	-
2440MHz	Pass	AV	2.239G	22.82	54.00	-31.18	-4.13	3	Horizontal	306	1.42	-
2440MHz	Pass	AV	3.078G	24.94	54.00	-29.06	-1.95	3	Horizontal	147	2.19	-
2440MHz	Pass	PK	1.286G	37.69	74.00	-36.31	-7.00	3	Horizontal	258	1.04	-
2440MHz	Pass	PK	2.239G	34.24	74.00	-39.76	-4.13	3	Horizontal	306	1.42	-
2440MHz	Pass	PK	3.078G	35.75	74.00	-38.25	-1.95	3	Horizontal	147	2.19	-

BT-LE(1Mbps)_1RX

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2440MHz_RX

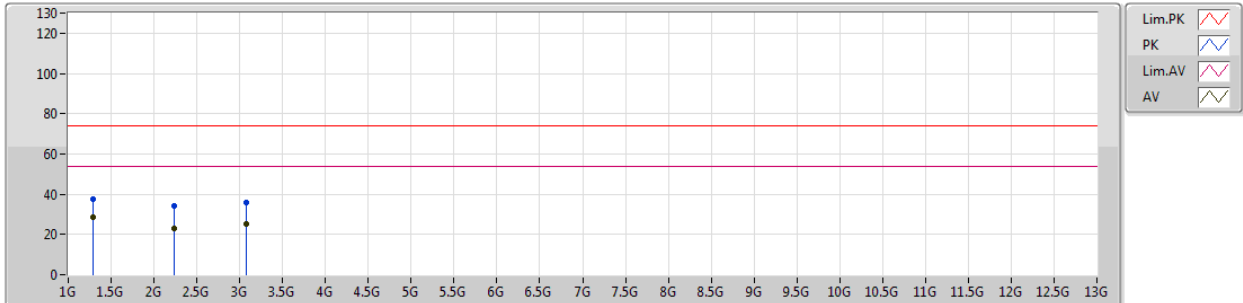


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	1.286G	29.00	54.00	-25.00	-7.00	3	Vertical	82	2.27	-
AV	2.536G	24.76	54.00	-29.24	-3.19	3	Vertical	309	2.48	-
AV	3.199G	25.90	54.00	-28.10	-1.79	3	Vertical	46	1.02	-
PK	1.286G	39.92	74.00	-34.08	-7.00	3	Vertical	82	2.27	-
PK	2.536G	38.20	74.00	-35.80	-3.19	3	Vertical	309	2.48	-
PK	3.199G	39.44	74.00	-34.56	-1.79	3	Vertical	46	1.02	-

BT-LE(1Mbps)_1RX

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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	1.286G	28.44	54.00	-25.56	-7.00	3	Horizontal	258	1.04	-
AV	2.239G	22.82	54.00	-31.18	-4.13	3	Horizontal	306	1.42	-
AV	3.078G	24.94	54.00	-29.06	-1.95	3	Horizontal	147	2.19	-
PK	1.286G	37.69	74.00	-36.31	-7.00	3	Horizontal	258	1.04	-
PK	2.239G	34.24	74.00	-39.76	-4.13	3	Horizontal	306	1.42	-
PK	3.078G	35.75	74.00	-38.25	-1.95	3	Horizontal	147	2.19	-