



RADIO TEST REPORT

FCC ID : 2A4M3-QV062201
Equipment : USB Type CO2 sensor
Brand Name : Telasia
Model Name : QV062201
Applicant : Reachtec Aire Ltd
6F., No. 252, Sec. 1, Wunhua 1st Rd., Linkou Dist.,
New Taipei City , Taiwan
Manufacturer : Telasia Symtonic Pte Ltd
18 Sin Ming Lane #07-02 Midview City Singapore
573960
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 07, 2022, and testing was started from Apr. 14, 2022 and completed on May 27, 2022. We, Sporton International Inc. Hsinchu 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 test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_6 Ver1.3



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen**Report Producer: Wendy Pan**



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
2.4G	BT-LE(1Mbps)	1	1

Note:

- ♦ Bluetooth LE uses a GFSK modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	WCH	CH9143	PCB Antenna	N/A	2

Note: The above information was declared by manufacturer.

Only Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-LE(1Mbps)	0.101	9.96	112.5u	10k

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Host system		
Function	☐ Point-to-multipoint	☒ Point-to-point	
Test Software Version	RF test Tool.exe (1.0.0.1)		
Support Mode	☒	LE 1M PHY: 1 Mb/s	
	☐	LE Coded PHY (S=2): 500 Kb/s	
	☐	LE Coded PHY (S=8): 125 Kb/s	
	☐	LE 2M PHY: 2 Mb/s	

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Kevin Huang	23.6-23.9 / 56-59	Apr. 27, 2022~ May 16, 2022
Radiated	03CH06-CB	Kevin Huang	23.8-24.9 / 55-58	Apr. 27, 2022~ May 27, 2022
AC Conduction	CO01-CB	Allen Chung	20-22 / 60-61	Apr. 14, 2022

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)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	2
2440MHz	1
2480MHz	0

2.2 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 Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz test, and the worst case was found at X axis. So the measurement will follow this same test configuration.
Test Mode	EUT in X axis
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at X axis. So the measurement will follow this same test configuration.
Test Mode	EUT in X axis

2.3 EUT Operation during Test

For Normal Link:

During the test, the EUT operation to normal function.

For CTX:

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

N/A



2.5 Support Equipment

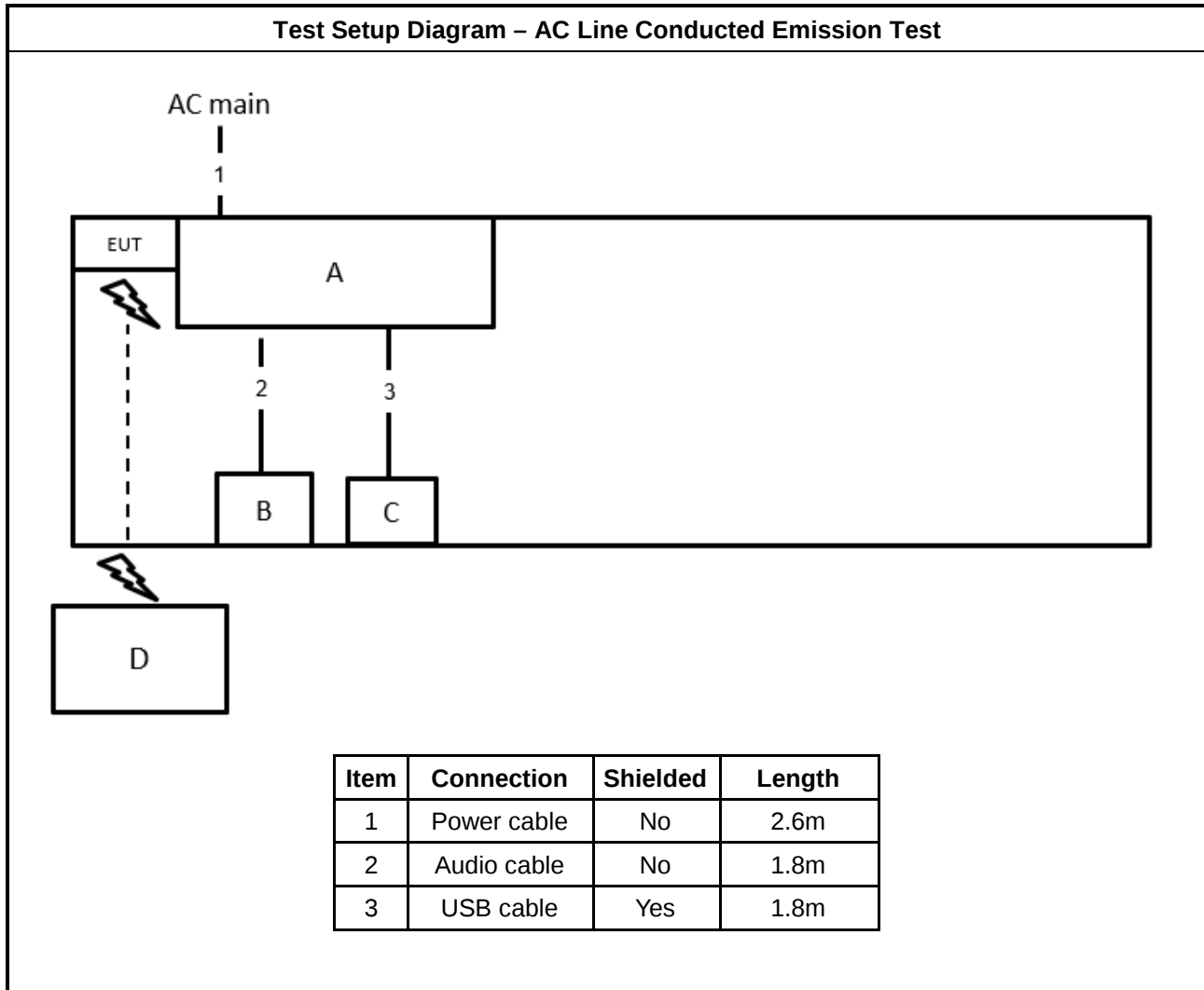
For AC Conduction:

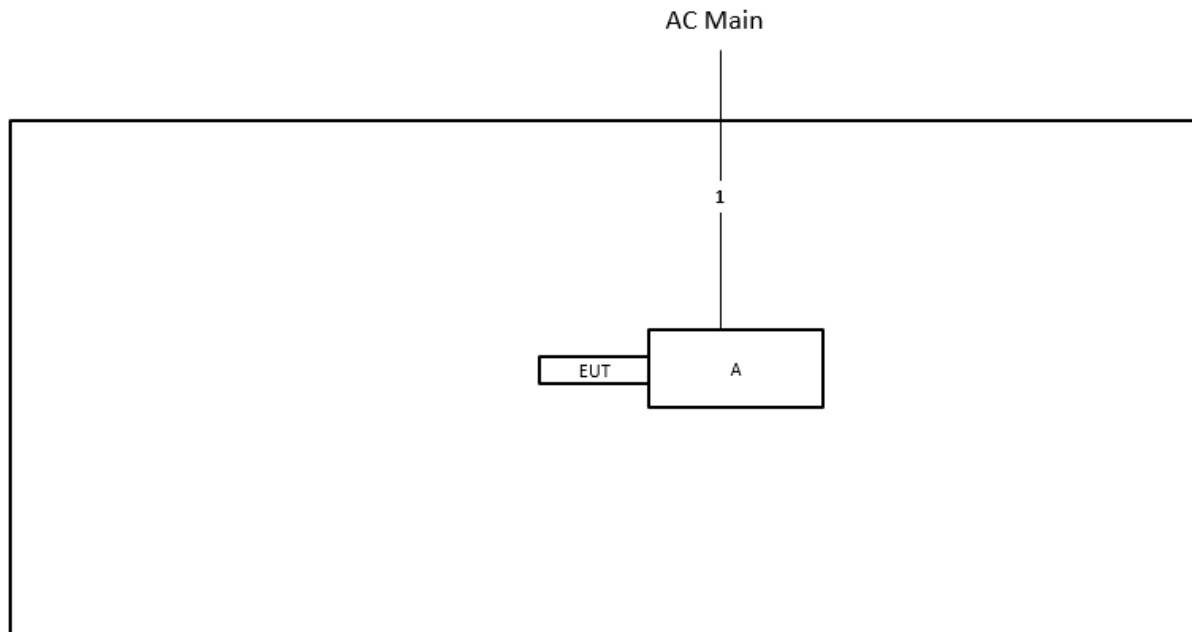
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E6430	N/A
B	Earphone	SHYARO CHI	MIC-04	N/A
C	Mouse	HP	FM100	N/A
D	Smart Phone	Samsung	J2	A3LSMJ200Y

For Radiated and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	Power cable	No	1.5m



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.		

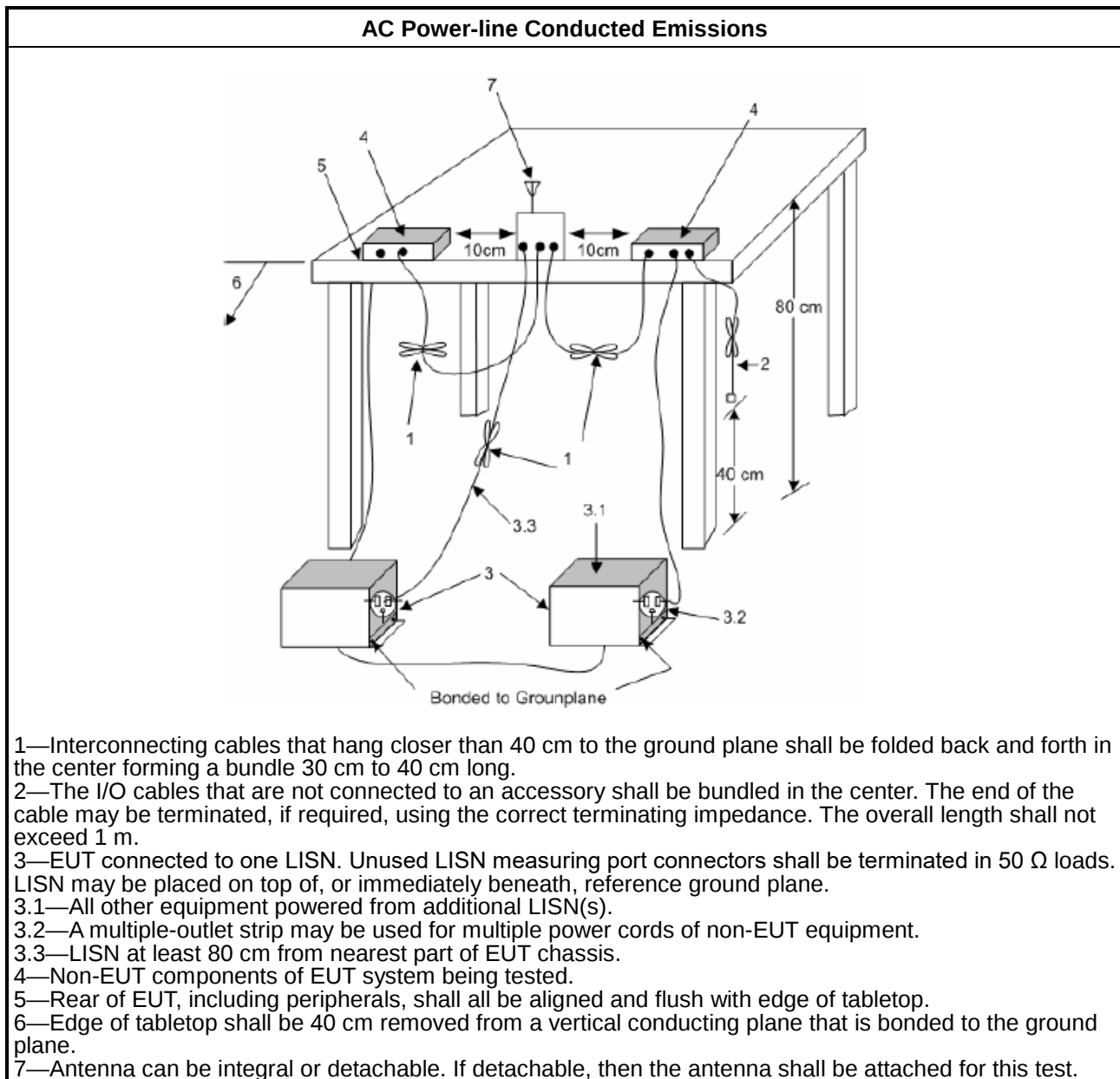
3.1.2 Measuring Instruments

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 for AC power-line conducted emissions.

3.1.4 Test Setup



1.1.1. Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

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.

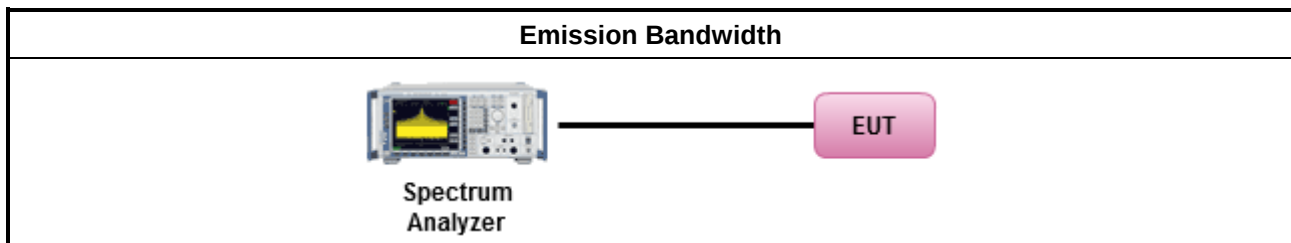
3.2.2 Measuring Instruments

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 FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 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
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

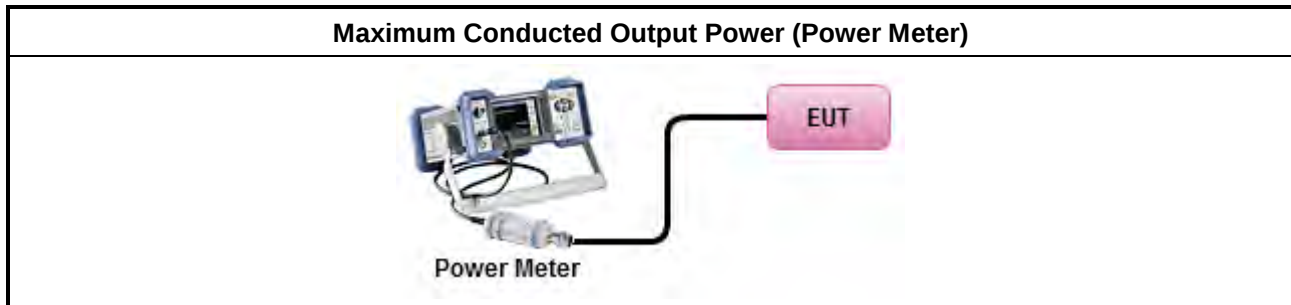
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC 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

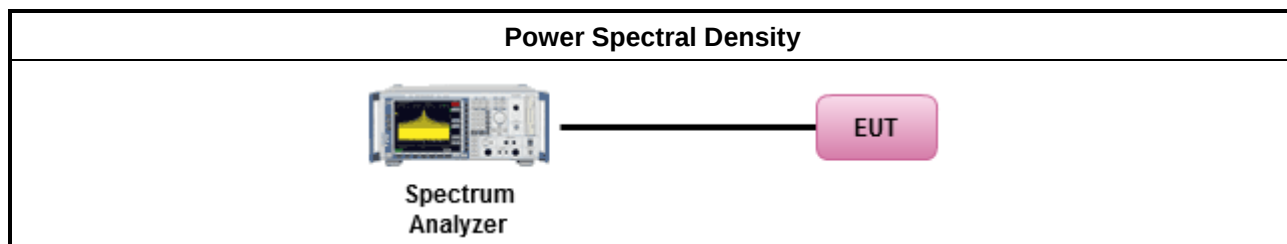
3.4.2 Measuring Instruments

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 FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. [duty cycle $\geq 98\%$ or external video / power trigger]
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☐	Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add $10 \log(N)$ dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with $10 \log(N)$. Or each transmit chains shall be add $10 \log(N)$ to compared with the limit.

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 (dBc)
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.	

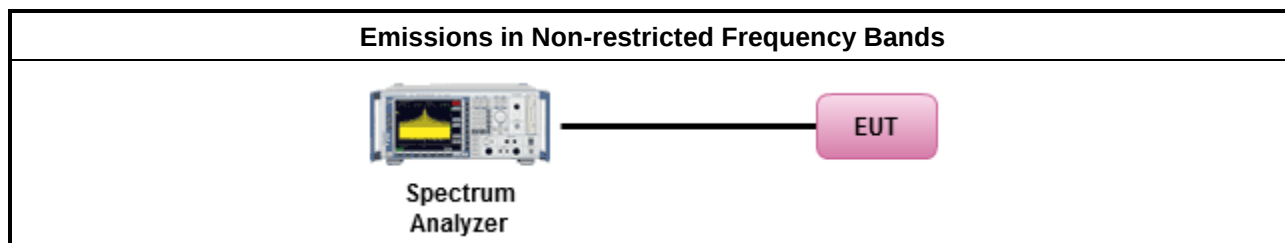
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

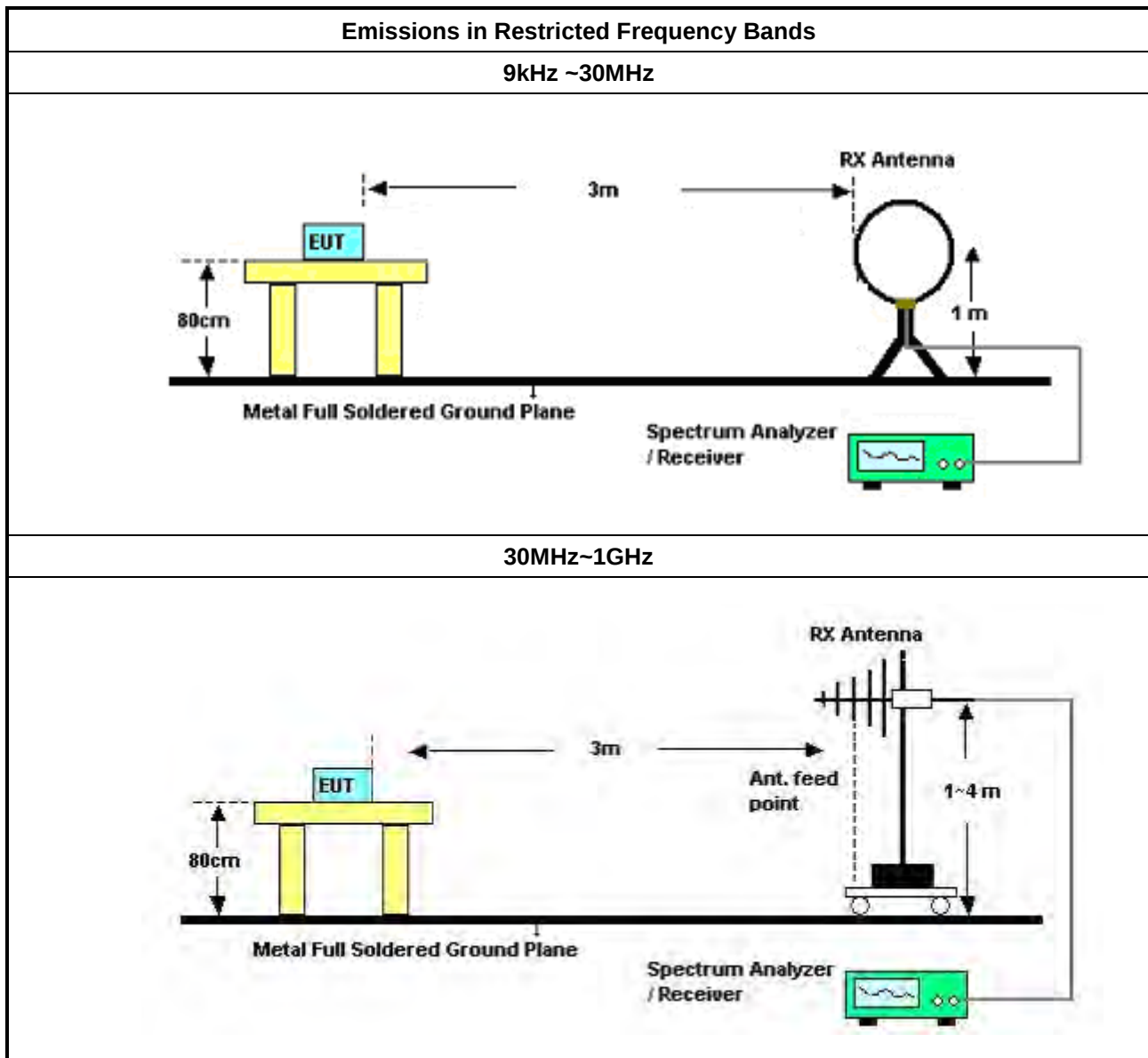
3.6.2 Measuring Instruments

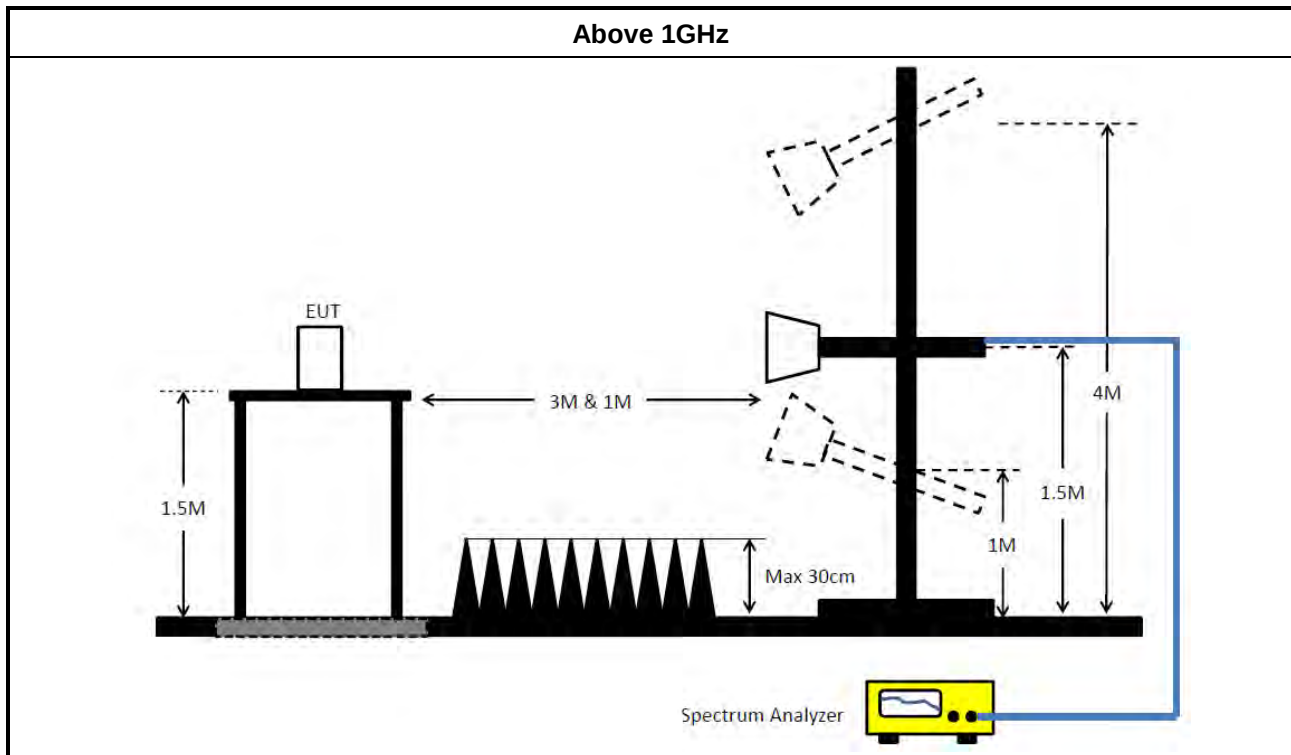
Refer a test equipment and calibration data table in this test report.

**3.6.3 Test Procedures**

Test Method	
▪ 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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC 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 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 18, 2022	Mar. 17, 2023	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 01, 2021	Sep. 30, 2022	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMC	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 31, 2021	Jul. 30, 2022	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 04, 2021	Aug. 03, 2022	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 04, 2021	Nov. 03, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	SGH5265	20211115-1	1GHz ~ 26.5GHz	Jan 19, 2022	Jan 18, 2023	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 24, 2021	Dec. 23, 2022	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-05+24	30MHz~1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 02, 2021	Aug. 01, 2022	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 25, 2021	Oct. 24, 2022	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 25, 2021	Oct. 24, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.



Conducted Emissions at Powerline

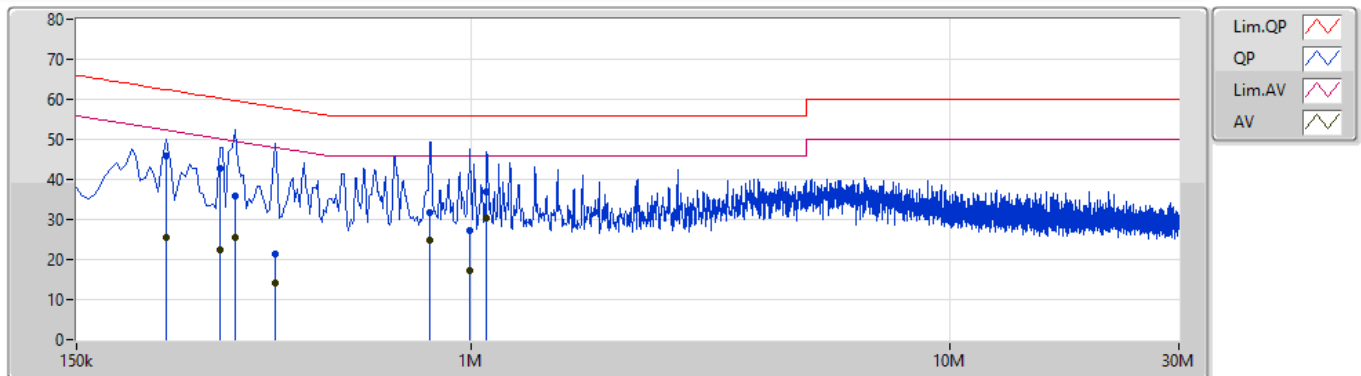
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	627k	33.42	46.00	-12.58	Neutral

Mode 1

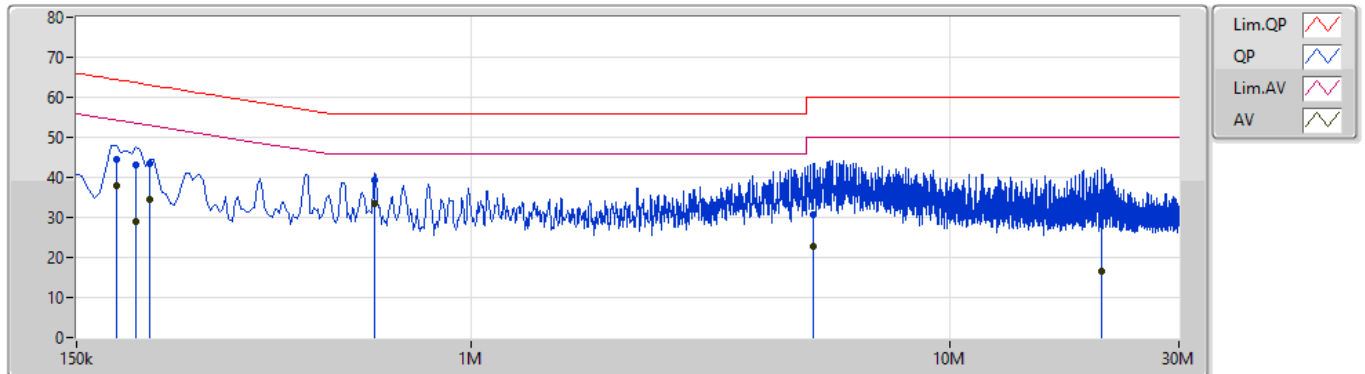
14/04/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	231k	45.69	62.41	-16.72	10.03	Line	-	35.66	0.12	0.02	9.89			
AV	231k	25.41	52.41	-27.00	10.03	Line	-	15.38	0.12	0.02	9.89			
QP	298.5k	42.67	60.28	-17.61	10.03	Line	-	32.64	0.12	0.02	9.89			
AV	298.5k	22.33	50.28	-27.95	10.03	Line	-	12.30	0.12	0.02	9.89			
QP	321k	35.75	59.67	-23.92	10.03	Line	-	25.72	0.12	0.02	9.89			
AV	321k	25.35	49.67	-24.32	10.03	Line	-	15.32	0.12	0.02	9.89			
QP	388.5k	21.53	58.10	-36.57	10.03	Line	-	11.50	0.12	0.02	9.89			
AV	388.5k	14.02	48.10	-34.08	10.03	Line	-	3.99	0.12	0.02	9.89			
QP	820.5k	31.65	56.00	-24.35	10.05	Line	-	21.60	0.14	0.02	9.89			
AV	820.5k	24.99	46.00	-21.01	10.05	Line	-	14.94	0.14	0.02	9.89			
QP	996k	27.41	56.00	-28.59	10.05	Line	-	17.36	0.14	0.02	9.89			
AV	996k	17.26	46.00	-28.74	10.05	Line	-	7.21	0.14	0.02	9.89			
QP	1.077M	36.99	56.00	-19.01	10.05	Line	-	26.94	0.14	0.02	9.89			
AV	1.077M	30.20	46.00	-15.80	10.05	Line	"Worst"	20.15	0.14	0.02	9.89			

Mode 1

14/04/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	181.5k	44.41	64.41	-20.00	10.07	Neutral	-	34.34	0.16	0.02	9.89			
AV	181.5k	37.87	54.41	-16.54	10.07	Neutral	-	27.80	0.16	0.02	9.89			
QP	199.5k	43.11	63.63	-20.52	10.07	Neutral	-	33.04	0.16	0.02	9.89			
AV	199.5k	29.13	53.63	-24.50	10.07	Neutral	-	19.06	0.16	0.02	9.89			
QP	213k	43.50	63.09	-19.59	10.07	Neutral	-	33.43	0.16	0.02	9.89			
AV	213k	34.40	53.09	-18.69	10.07	Neutral	-	24.33	0.16	0.02	9.89			
QP	627k	39.40	56.00	-16.60	10.07	Neutral	-	29.33	0.16	0.02	9.89			
AV	627k	33.42	46.00	-12.58	10.07	Neutral	"Worst"	23.35	0.16	0.02	9.89			
QP	5.19M	30.75	60.00	-29.25	10.21	Neutral	-	20.54	0.24	0.07	9.90			
AV	5.19M	22.60	50.00	-27.40	10.21	Neutral	-	12.39	0.24	0.07	9.90			
QP	20.693M	29.86	60.00	-30.14	10.42	Neutral	-	19.44	0.33	0.13	9.96			
AV	20.693M	16.42	50.00	-33.58	10.42	Neutral	-	6.00	0.33	0.13	9.96			

**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)	670k	1.482M	1M48F1D	621.25k	998.251k

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

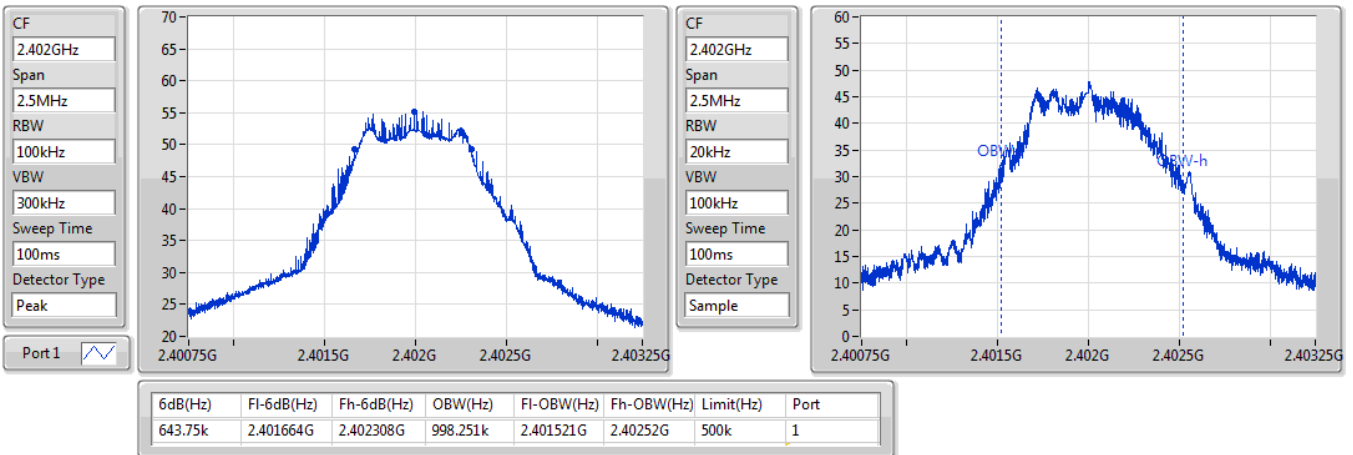
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	643.75k	998.251k
2440MHz	Pass	500k	670k	1.159M
2480MHz	Pass	500k	621.25k	1.482M

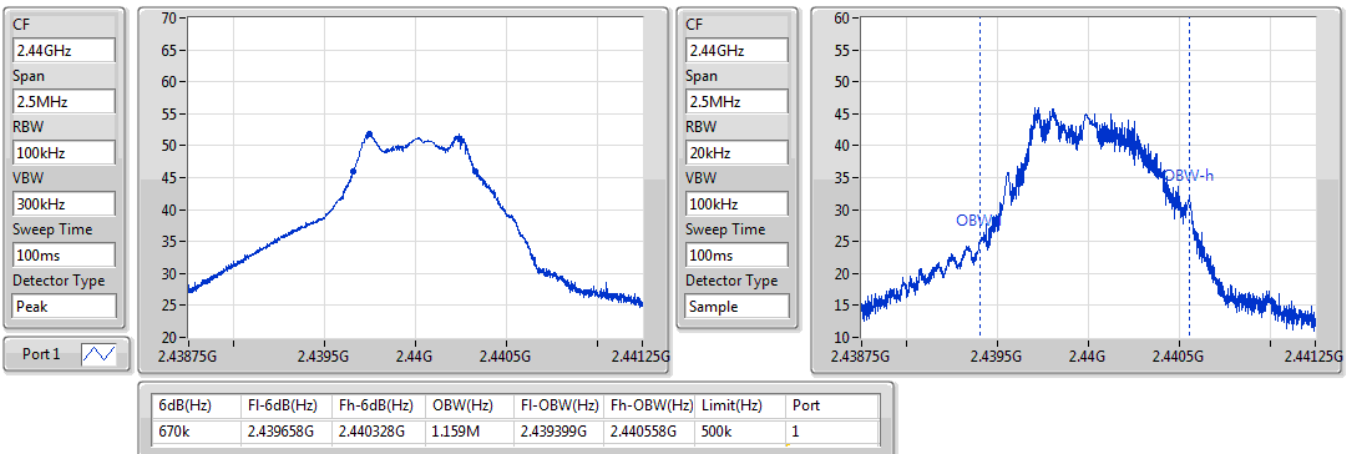
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-LE(1Mbps)
2402MHz

16/05/2022


BT-LE(1Mbps)
2440MHz

16/05/2022

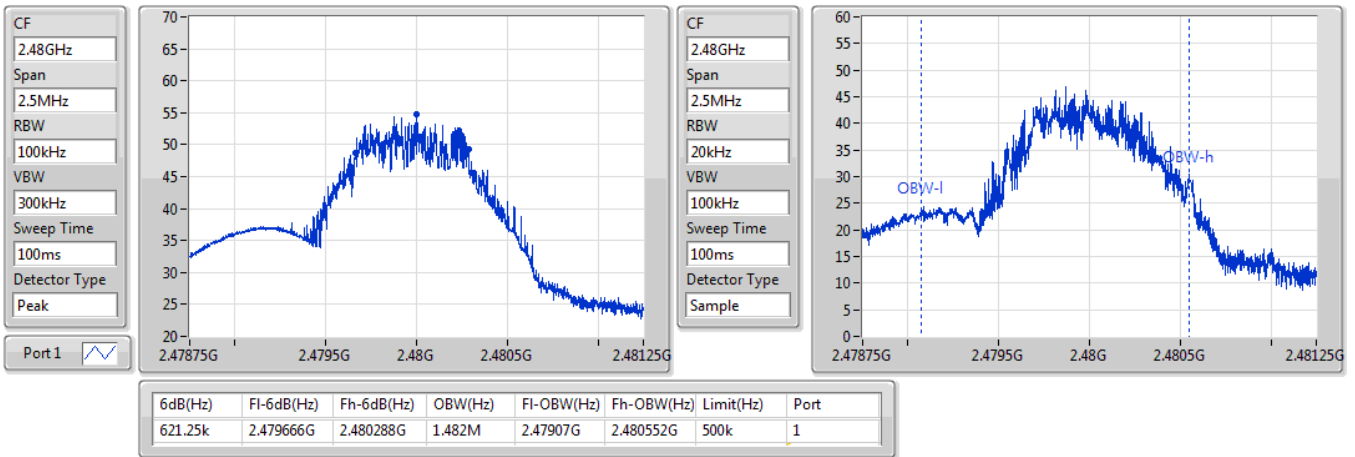


BT-LE(1Mbps)

2480MHz

EBW-DTS

16/05/2022





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz		
BT-LE_Nss1_1TX	-13.22	0.00005



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.00	-13.22	30.00
2440MHz	Pass	2.00	-14.46	30.00
2480MHz	Pass	2.00	-14.43	30.00

DG = Directional Gain; Port X = Port X output power

Summary

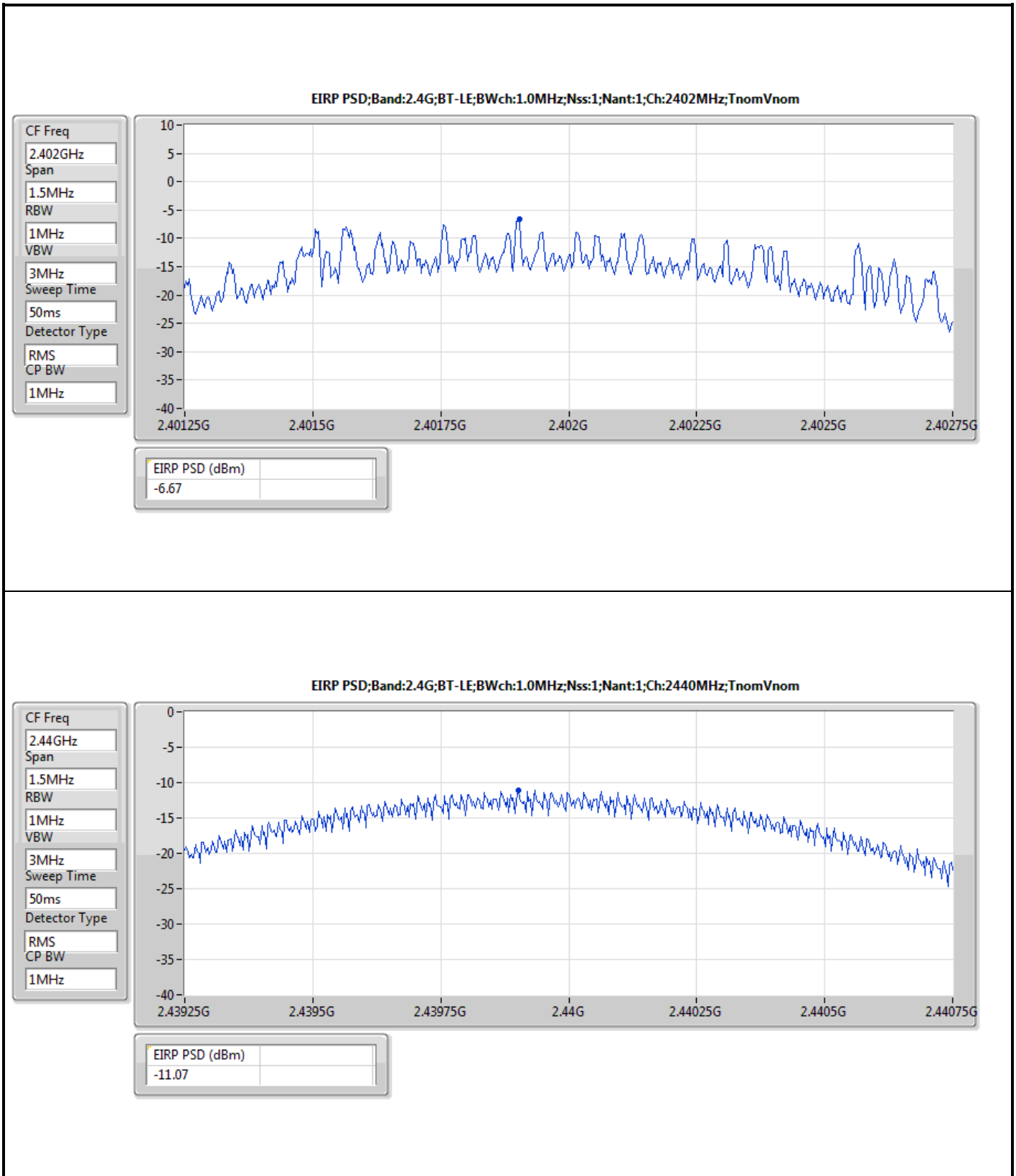
Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
2.4-2.4835GHz		-
BT-LE_Nss1_1TX	-8.67	-6.67

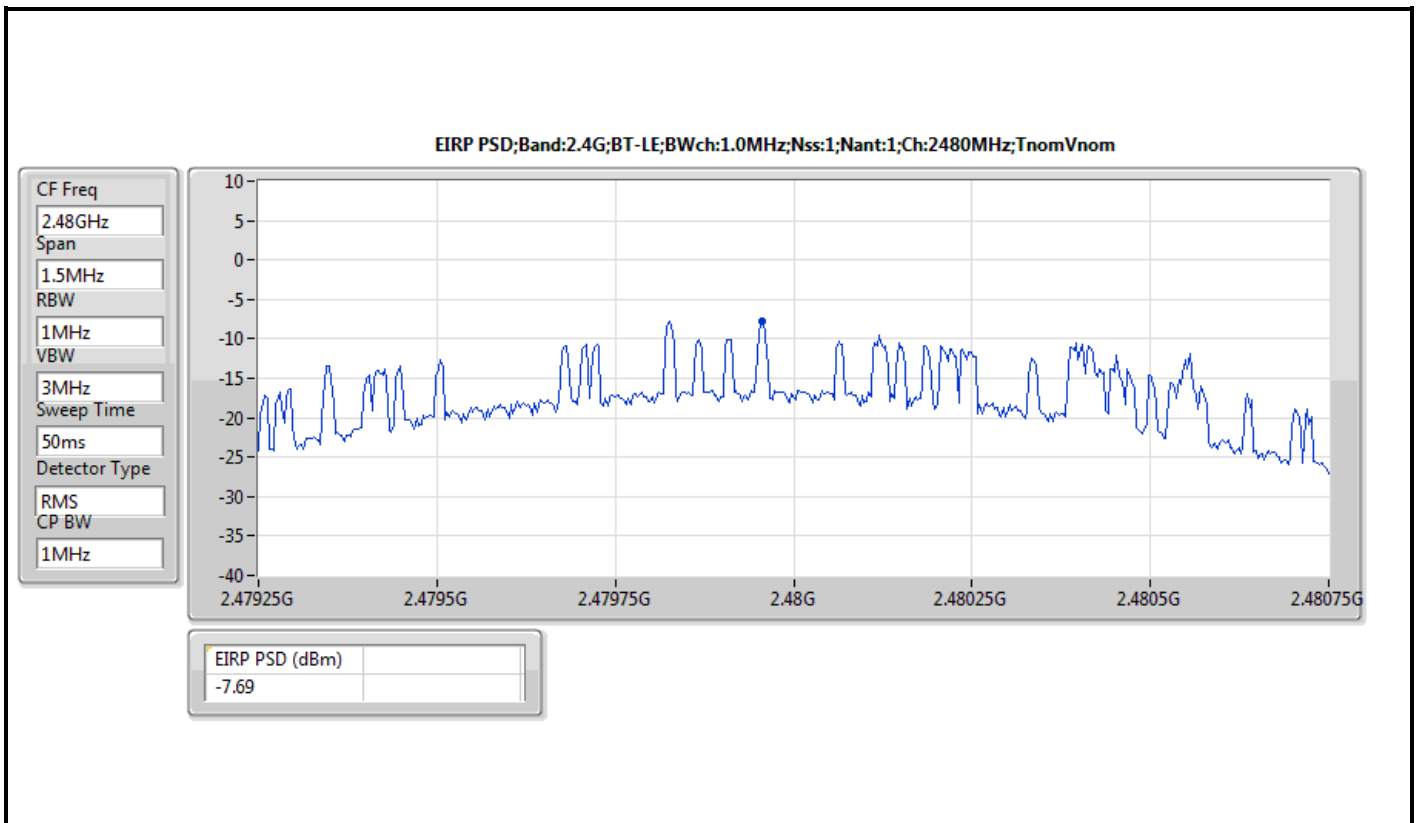
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	EIRP PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.00	-8.67	-6.67	8.00
2440MHz	Pass	2.00	-13.07	-11.07	8.00
2480MHz	Pass	2.00	-9.69	-7.69	8.00

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;







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)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40154G	-19.61	-49.61	318.46M	-61.62	2.39677G	-66.10	2.4835G	-68.65	2.48619G	-64.25	6.87907G	-61.77	1

Result

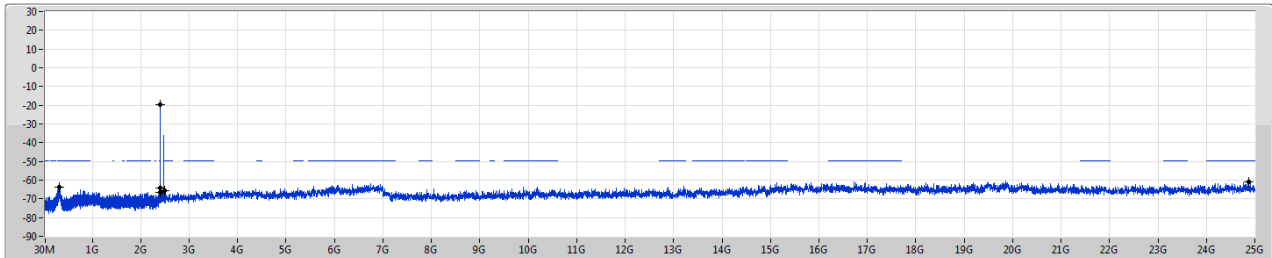
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40154G	-19.61	-49.61	315.53M	-63.96	2.39993G	-64.25	2.4G	-66.45	2.48632G	-65.66	24.86502G	-60.83	1
2440MHz	Pass	2.40154G	-19.61	-49.61	316.99M	-62.83	2.39869G	-66.46	2.4835G	-68.64	2.48389G	-65.93	16.76347G	-61.37	1
2480MHz	Pass	2.40154G	-19.61	-49.61	318.46M	-61.62	2.39677G	-66.10	2.4835G	-68.65	2.48619G	-64.25	6.87907G	-61.77	1

BT-LE(1Mbps)

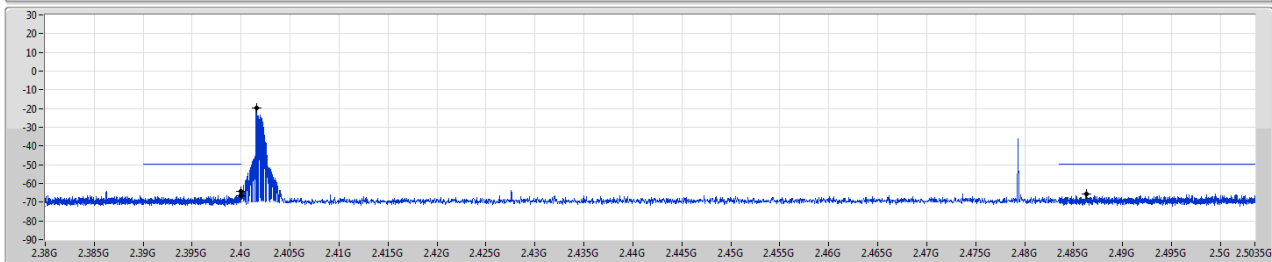
CSEndB-DTS

2402MHz

16/05/2022



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

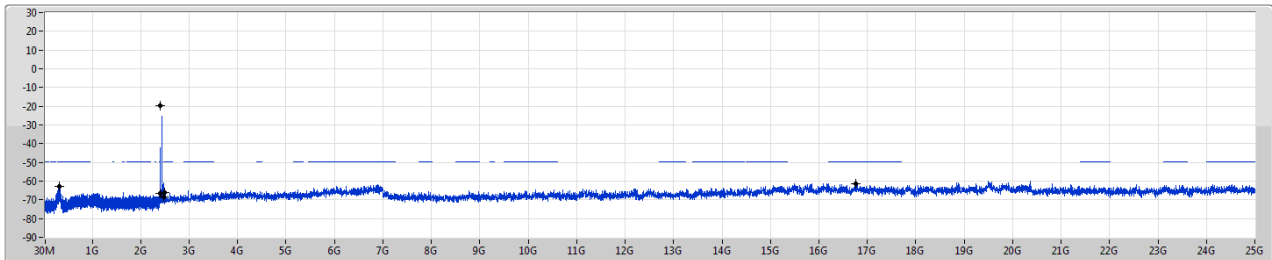
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40154G	-19.61	-49.61	315.53M	-63.96	2.39993G	-64.25	2.4G	-66.45	2.48632G	-65.66	2.486502G	-60.83	1

BT-LE(1Mbps)

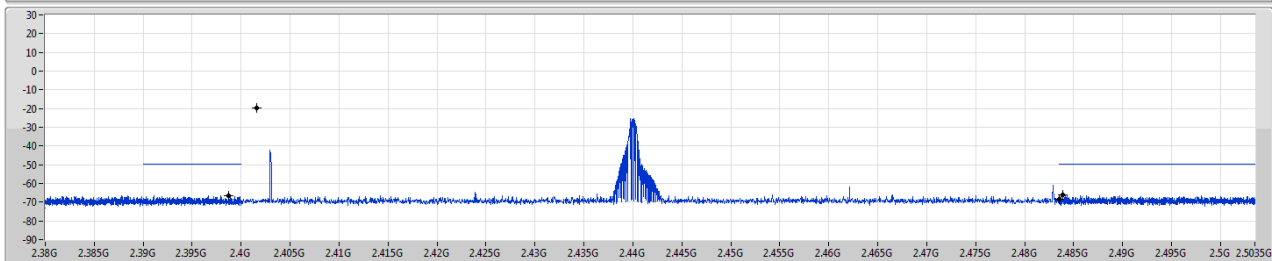
CSEndB-DTS

2440MHz

16/05/2022



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

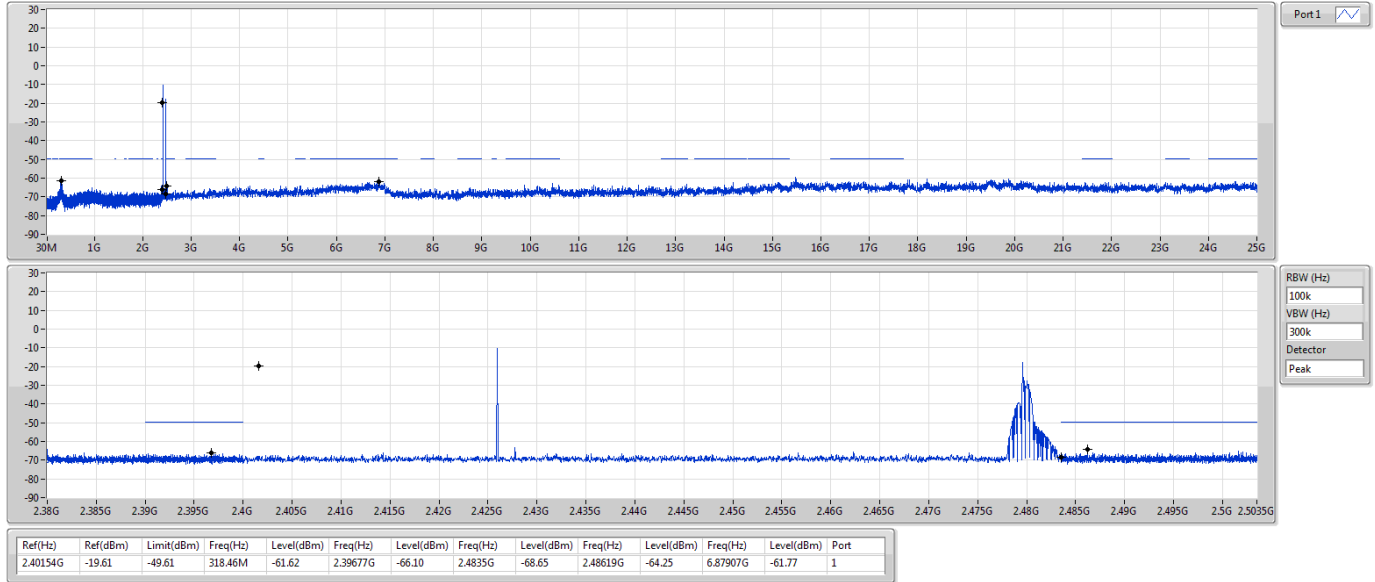
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40154G	-19.61	-49.61	316.99M	-62.83	2.39869G	-66.46	2.4835G	-68.64	2.48389G	-65.93	16.76347G	-61.37	1

BT-LE(1Mbps)

CSEndB-DTS

2480MHz

16/05/2022





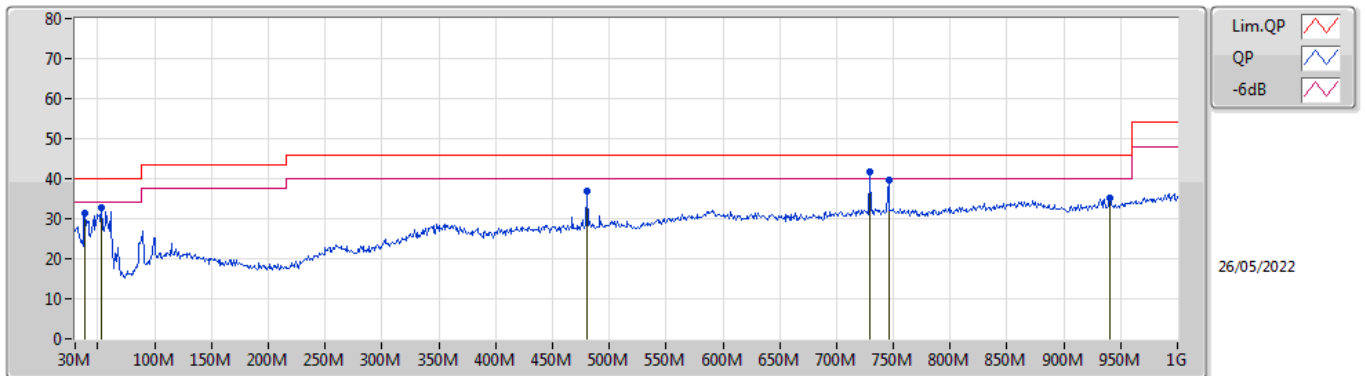
Radiated Emissions below 1GHz

Appendix F.1

Summary

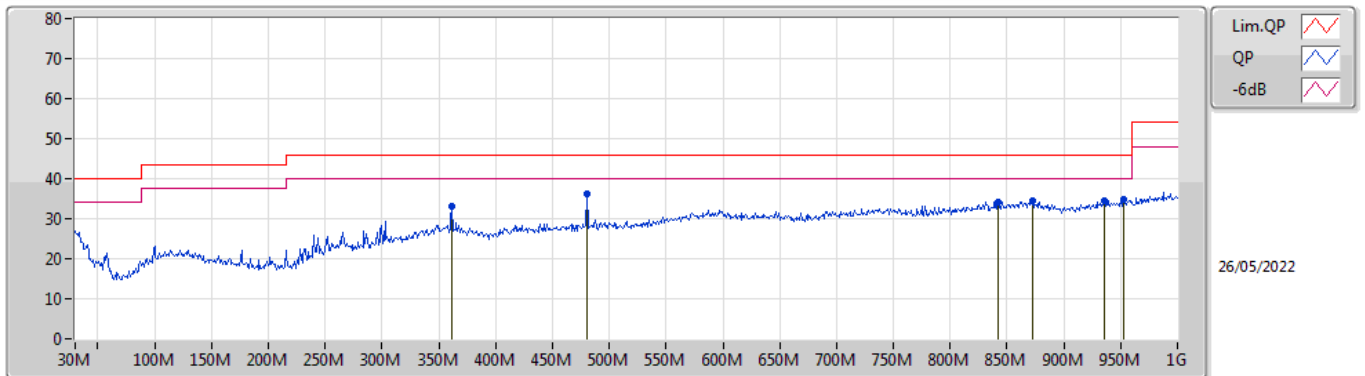
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	729.37M	41.79	46.00	-4.21	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	38.73M	31.22	40.00	-8.78	-10.85	3	Vertical	143	3.00	-	42.07	19.81	1.80	32.46
PK	53.28M	32.68	40.00	-7.32	-17.44	3	Vertical	187	1.00	-	50.12	13.17	1.87	32.48
PK	480.08M	36.83	46.00	-9.17	-4.29	3	Vertical	305	1.50	-	41.12	23.16	4.72	32.17
PK	729.37M	41.79	46.00	-4.21	-0.98	3	Vertical	54	1.00	"Worst"	42.77	25.33	5.72	32.03
PK	745.86M	39.52	46.00	-6.48	-0.71	3	Vertical	350	1.00	-	40.23	25.50	5.78	31.99
PK	940.83M	35.13	46.00	-10.87	1.89	3	Vertical	43	1.25	-	33.24	26.45	6.58	31.14

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	361.74M	33.24	46.00	-12.76	-7.59	3	Horizontal	179	1.00	-	40.83	20.59	4.02	32.20
PK	480.08M	36.10	46.00	-9.90	-4.29	3	Horizontal	314	1.50	"Worst"	40.39	23.16	4.72	32.17
PK	841.89M	34.21	46.00	-11.79	0.53	3	Horizontal	323	1.00	-	33.68	26.02	6.17	31.66
PK	872.93M	34.43	46.00	-11.57	0.98	3	Horizontal	210	1.25	-	33.45	26.20	6.34	31.56
PK	935.98M	34.52	46.00	-11.48	1.76	3	Horizontal	206	2.00	-	32.76	26.37	6.57	31.18
PK	952.47M	34.72	46.00	-11.28	2.14	3	Horizontal	294	1.50	-	32.58	26.56	6.61	31.03

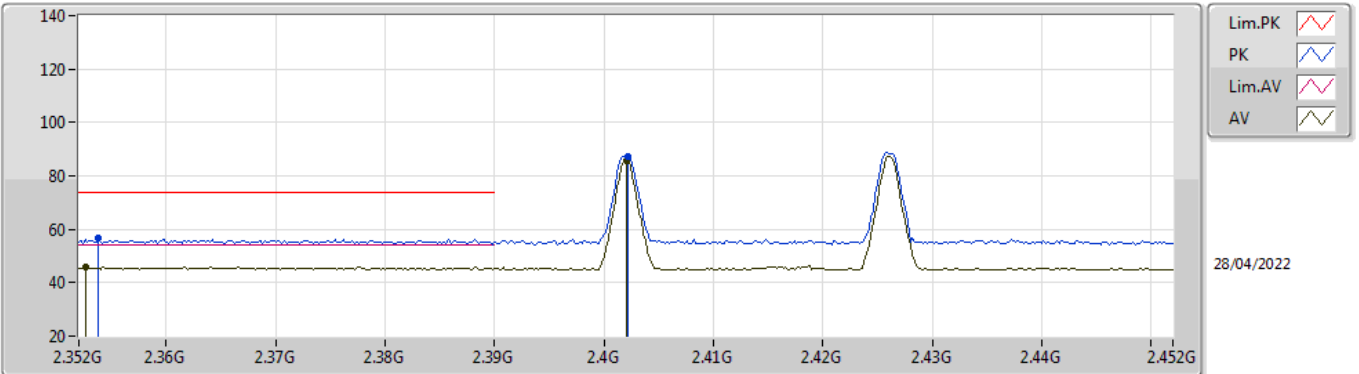


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LTE(1Mbps)	Pass	AV	7.31942G	53.44	54.00	-0.56	3	Horizontal	113	1.90	-

BT-LE(1Mbps)

2402MHz_TX

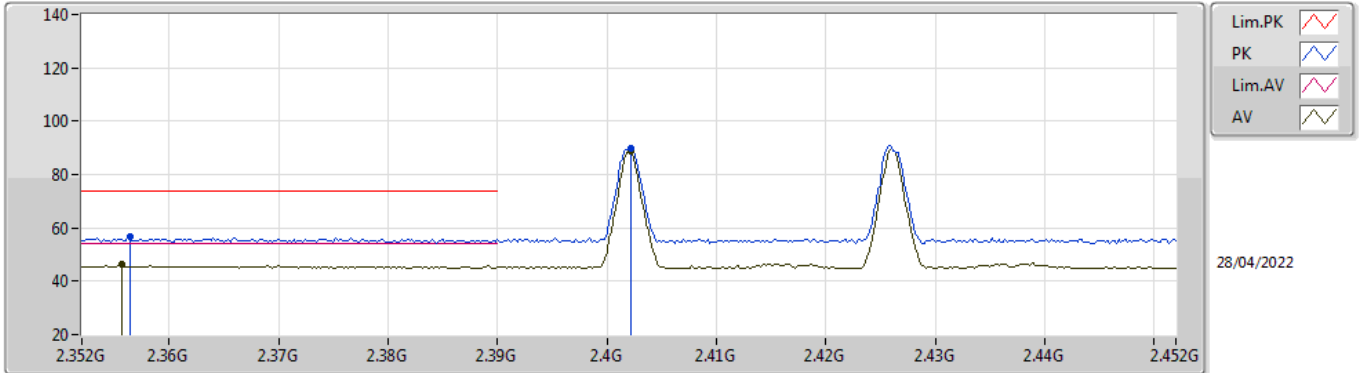


EUT X_1TX
Setting 2
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3538G	56.53	74.00	-17.47	24.92	3	Vertical	88	1.15	-	27.77	3.84	-
AV	2.3526G	45.84	54.00	-8.16	14.22	3	Vertical	88	1.15	-	27.78	3.84	-
PK	2.4022G	87.07	Inf	-Inf	55.78	3	Vertical	88	1.15	-	27.39	3.90	-
AV	2.402G	85.93	Inf	-Inf	54.64	3	Vertical	88	1.15	-	27.39	3.90	-

BT-LE(1Mbps)

2402MHz_TX

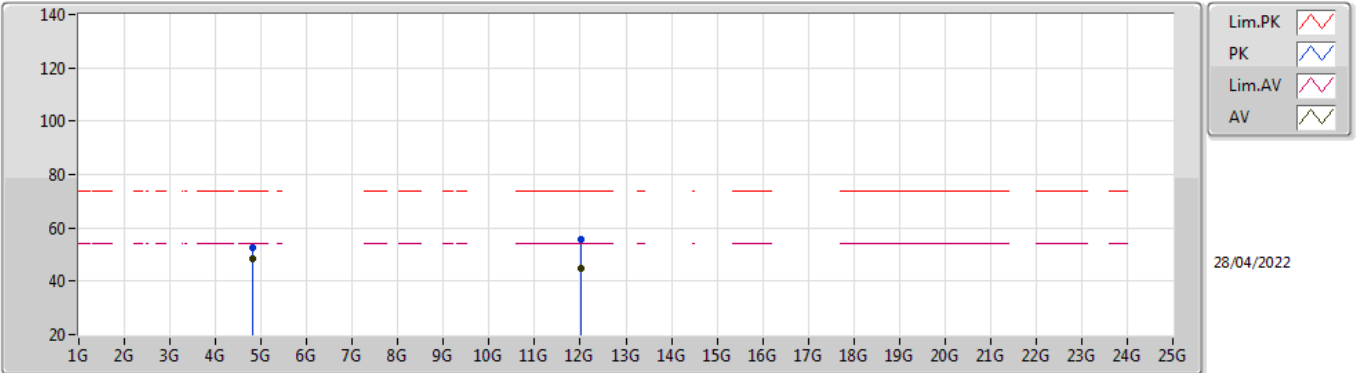


EUT X_1TX
Setting 2
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3564G	56.60	74.00	-17.40	25.00	3	Horizontal	326	1.80	-	27.75	3.85	-	
AV	2.3556G	46.17	54.00	-7.83	14.56	3	Horizontal	326	1.80	-	27.76	3.85	-	
PK	2.4022G	89.59	Inf	-Inf	58.30	3	Horizontal	326	1.80	-	27.39	3.90	-	
AV	2.4022G	88.84	Inf	-Inf	57.55	3	Horizontal	326	1.80	-	27.39	3.90	-	

BT-LE(1Mbps)

2402MHz_TX

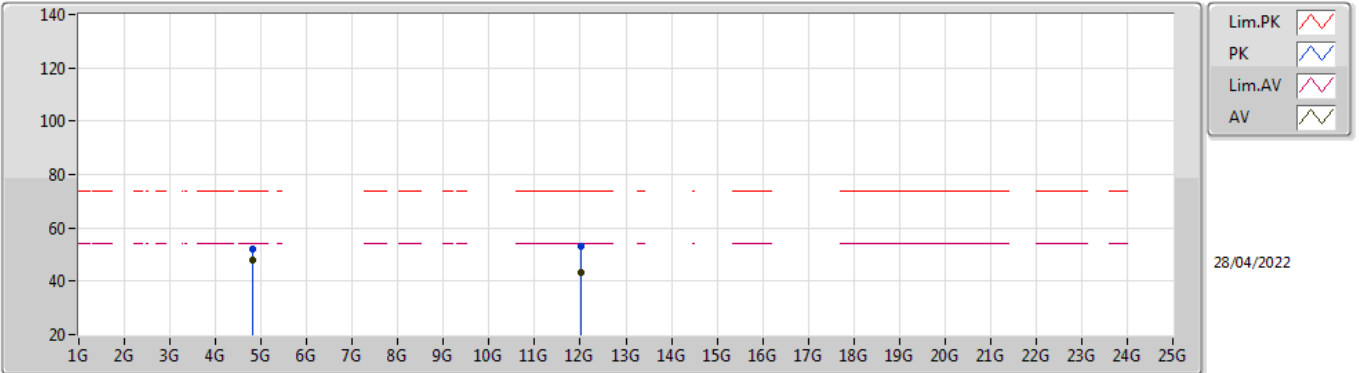


EUT X_1TX
Setting 2
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80348G	52.40	74.00	-21.60	59.18	3	Vertical	164	1.80	-	31.09	5.36	43.23
AV	4.80364G	48.56	54.00	-5.44	55.34	3	Vertical	164	1.80	-	31.09	5.36	43.23
PK	12.00868G	55.70	74.00	-18.30	50.48	3	Vertical	136	2.97	-	38.82	9.16	42.76
AV	12.00888G	44.61	54.00	-9.39	39.39	3	Vertical	136	2.97	-	38.82	9.16	42.76

BT-LE(1Mbps)

2402MHz_TX

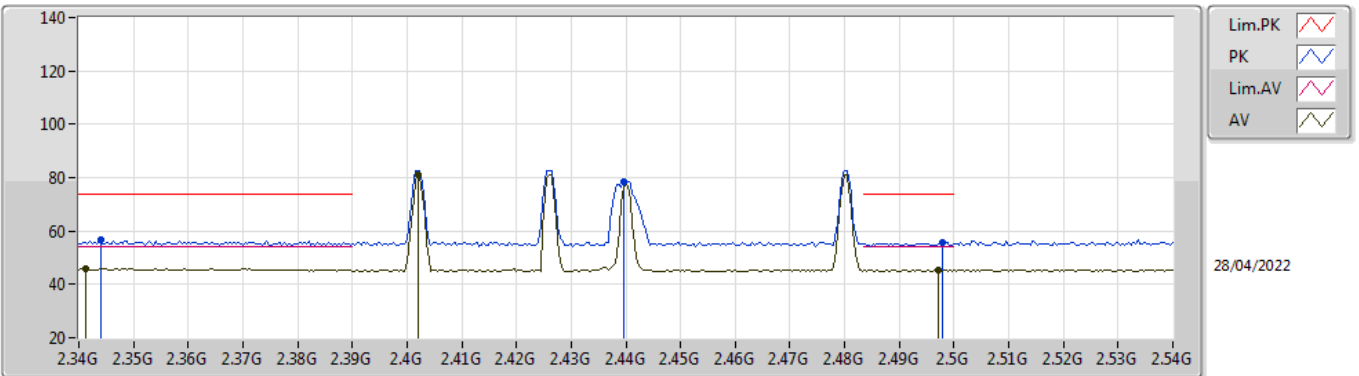


EUT X_1TX
Setting 2
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.80348G	52.31	74.00	-21.69	59.09	3	Horizontal	157	1.60	-	31.09	5.36	43.23	
AV	4.80368G	48.08	54.00	-5.92	54.86	3	Horizontal	157	1.60	-	31.09	5.36	43.23	
PK	12.0092G	53.28	74.00	-20.72	48.06	3	Horizontal	191	1.91	-	38.82	9.16	42.76	
AV	12.00184G	43.02	54.00	-10.98	37.82	3	Horizontal	191	1.91	-	38.80	9.16	42.76	

BT-LE(1Mbps)

2440MHz_TX

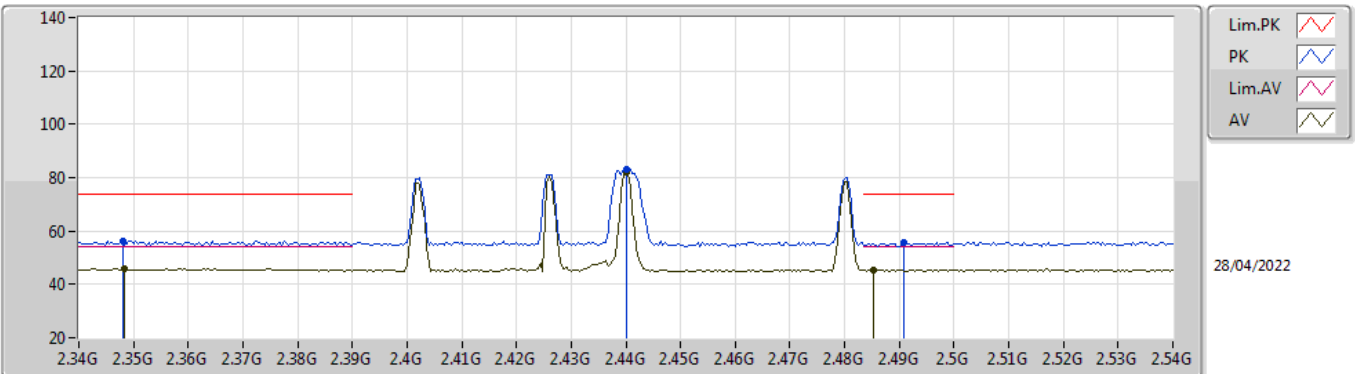


EUT_X1TX
Setting 1
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.344G	56.68	74.00	-17.32	25.03	3	Vertical	282	2.75	-	27.82	3.83	-
AV	2.3412G	45.87	54.00	-8.13	14.20	3	Vertical	282	2.75	-	27.84	3.83	-
PK	2.4396G	78.42	Inf	-Inf	47.27	3	Vertical	282	2.75	-	27.24	3.91	-
AV	2.402G	81.27	Inf	-Inf	49.98	3	Vertical	282	2.75	-	27.39	3.90	-
PK	2.498G	55.45	74.00	-18.55	24.24	3	Vertical	282	2.75	-	27.30	3.91	-
AV	2.4972G	45.40	54.00	-8.60	14.20	3	Vertical	282	2.75	-	27.29	3.91	-

BT-LE(1Mbps)

2440MHz_TX

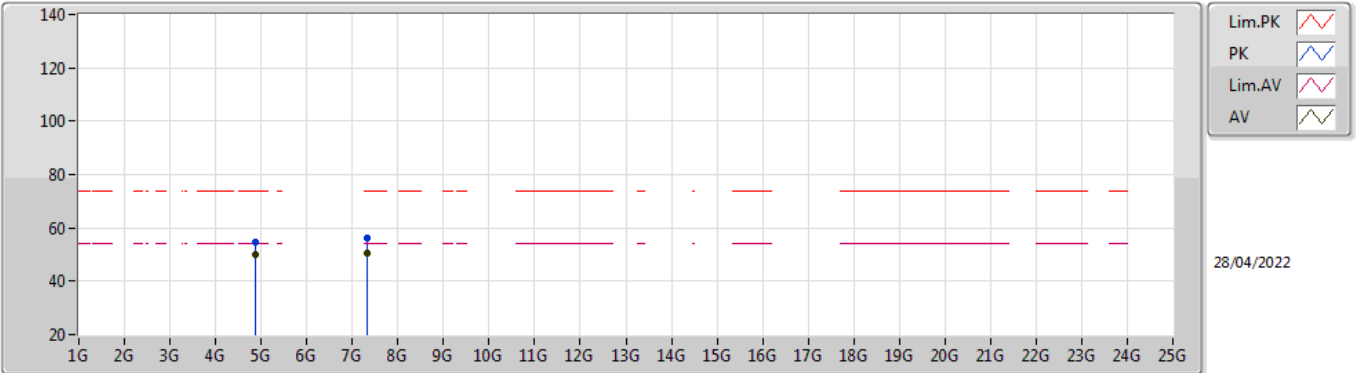


EUT_X1TX
Setting 1
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.348G	56.43	74.00	-17.57	24.78	3	Horizontal	252	1.01	-	27.81	3.84	-
AV	2.3484G	45.91	54.00	-8.09	14.26	3	Horizontal	252	1.01	-	27.81	3.84	-
PK	2.44G	83.22	Inf	-Inf	52.07	3	Horizontal	252	1.01	-	27.24	3.91	-
AV	2.44G	82.11	Inf	-Inf	50.96	3	Horizontal	252	1.01	-	27.24	3.91	-
PK	2.4908G	55.66	74.00	-18.34	24.47	3	Horizontal	252	1.01	-	27.28	3.91	-
AV	2.4852G	45.60	54.00	-8.40	14.42	3	Horizontal	252	1.01	-	27.27	3.91	-

BT-LE(1Mbps)

2440MHz_TX

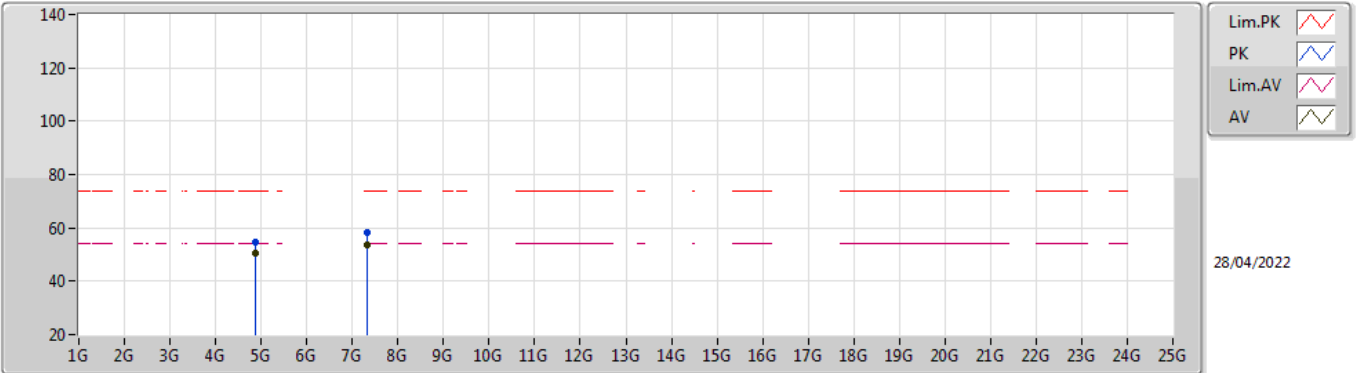


EUT_X_1TX
Setting 1
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88052G	54.40	74.00	-19.60	61.15	3	Vertical	138	1.56	-	31.06	5.39	43.20
AV	4.87962G	50.24	54.00	-3.76	56.99	3	Vertical	138	1.56	-	31.06	5.39	43.20
PK	7.31914G	56.39	74.00	-17.61	55.38	3	Vertical	83	2.36	-	36.32	6.71	42.02
AV	7.31912G	50.72	54.00	-3.28	49.71	3	Vertical	83	2.36	-	36.32	6.71	42.02

BT-LE(1Mbps)

2440MHz_TX

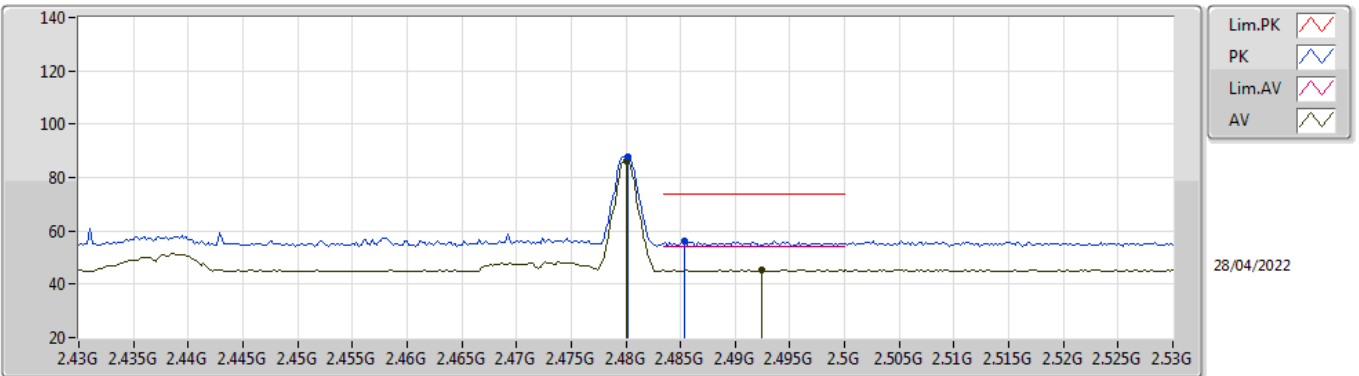


EUT_X_1TX
Setting 1
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8808G	54.70	74.00	-19.30	61.45	3	Horizontal	156	1.80	-	31.06	5.39	43.20
AV	4.87938G	50.50	54.00	-3.50	57.25	3	Horizontal	156	1.80	-	31.06	5.39	43.20
PK	7.31924G	58.34	74.00	-15.66	57.33	3	Horizontal	113	1.90	-	36.32	6.71	42.02
AV	7.31942G	53.44	54.00	-0.56	52.43	3	Horizontal	113	1.90	-	36.32	6.71	42.02

BT-LE(1Mbps)

2480MHz_TX

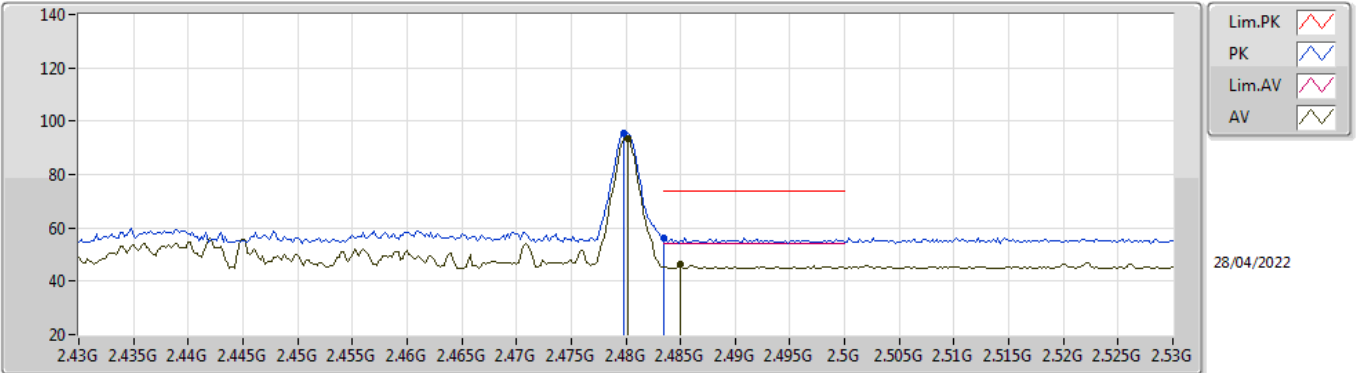


EUT X_1TX
Setting 0
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4802G	87.79	Inf	-Inf	56.62	3	Vertical	100	1.00	-	27.26	3.91	-	
AV	2.48G	86.36	Inf	-Inf	55.19	3	Vertical	100	1.00	-	27.26	3.91	-	
PK	2.4854G	56.00	74.00	-18.00	24.82	3	Vertical	100	1.00	-	27.27	3.91	-	
AV	2.4924G	45.49	54.00	-8.51	14.30	3	Vertical	100	1.00	-	27.28	3.91	-	

BT-LE(1Mbps)

2480MHz_TX

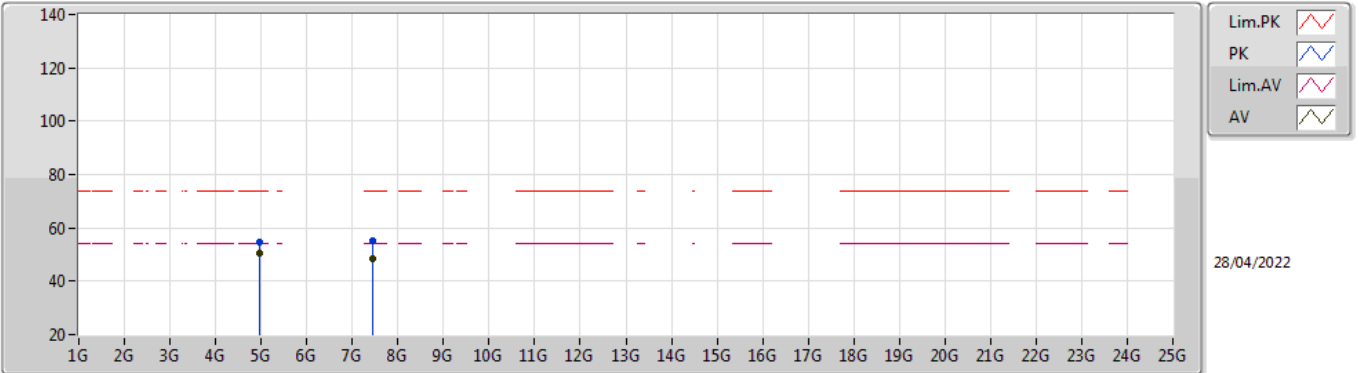


EUT_X_1TX
Setting 0
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4798G	95.46	Inf	-Inf	64.29	3	Horizontal	290	1.80	-	27.26	3.91	-	
AV	2.4802G	93.35	Inf	-Inf	62.18	3	Horizontal	290	1.80	-	27.26	3.91	-	
PK	2.4835G	56.29	74.00	-17.71	25.11	3	Horizontal	290	1.80	-	27.27	3.91	-	
AV	2.485G	46.59	54.00	-7.41	15.41	3	Horizontal	290	1.80	-	27.27	3.91	-	

BT-LE(1Mbps)

2480MHz_TX

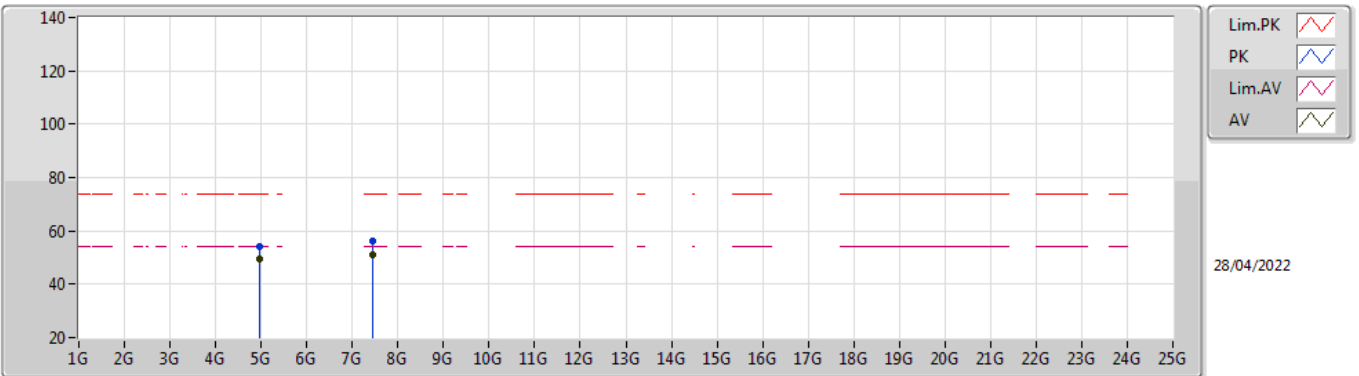


EUT X_1TX
Setting 0
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.95946G	54.60	74.00	-19.40	61.05	3	Vertical	157	1.55	-	31.30	5.42	43.17
AV	4.9595G	50.64	54.00	-3.36	57.09	3	Vertical	157	1.55	-	31.30	5.42	43.17
PK	7.4407G	55.30	74.00	-18.70	54.34	3	Vertical	83	2.33	-	36.16	6.79	41.99
AV	7.43924G	48.38	54.00	-5.62	47.42	3	Vertical	83	2.33	-	36.16	6.79	41.99

BT-LE(1Mbps)

2480MHz_TX



EUT X_1TX
Setting 0
06-F-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.95948G	54.21	74.00	-19.79	60.66	3	Horizontal	158	1.55	-	31.30	5.42	43.17	
AV	4.9596G	49.71	54.00	-4.29	56.16	3	Horizontal	158	1.55	-	31.30	5.42	43.17	
PK	7.43934G	56.10	74.00	-17.90	55.14	3	Horizontal	96	1.80	-	36.16	6.79	41.99	
AV	7.43922G	51.29	54.00	-2.71	50.33	3	Horizontal	96	1.80	-	36.16	6.79	41.99	