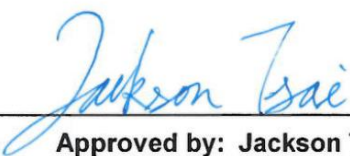


FCC Radio Test Report

FCC ID : RSE-OWM0131
Equipment : WiFi Extender
Brand Name : technicolor
Model Name : OWM0131TCH
Applicant : Technicolor Delivery Technologies Belgium
Prins Boudewijnlaan 47
Edegem B-2650
Belgium
Manufacturer : Technicolor Delivery Technologies Belgium
Prins Boudewijnlaan 47
Edegem B-2650
Belgium
Standard : 47 CFR FCC Part 15.249

The product was received on Jun. 23, 2022, and testing was started from Jun. 27, 2022 and completed on Sep. 02, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)

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PHOTOGRAPHS OF EUT v01		

**HISTORY OF THIS TEST REPORT**

Report No.	Version	Description	Issued Date
FR262320ZW	01	Initial issue of report	Oct. 14, 2022
FR262320ZW	02	Revised typo. (This report is the latest version replacing for the report issued on Oct. 14, 2022.)	Oct. 17, 2022

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	15.215(c)	Emission Bandwidth	PASS	-
3.3	15.249(a)	Fundamental Emissions	PASS	-
3.4	15.249(a)/(d)	Transmitter Radiated Unwanted Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None.

Reviewed by: Ryan Hsiao

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information			
Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	Channel Number
902-928	FSK	908.4	1
Note 1: Field strength performed quasi peak level at 3m.			

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	NA	NA	PCB	I-Pex	2.4GHz
2	NA	NA	PCB	I-Pex	2.4GHz
3	NA	NA	PCB	I-Pex	5GHz
4	NA	NA	PCB	I-Pex	5GHz
5	NA	NA	PCB	I-Pex	5GHz
6	NA	NA	PCB	I-Pex	5GHz
7	NA	NA	PCB	I-Pex	Bluetooth
8	NA	NA	PCB	I-Pex	Zigbee
9	NA	NA	PCB	I-Pex	Z-Wave

Ant.	Port	Gain (dBi)					
		2.4G	U-NII-1	U-NII-3	Bluetooth	Zigbee	Z-Wave
1	1	2.28	-	-	-	-	-
2	2	3.20	-	-	-	-	-
3	1	-	4.09	3.29	-	-	-
4	2	-	2.57	2.70	-	-	-
5	3	-	2.33	2.51	-	-	-
6	4	-	3.75	2.65	-	-	-
7	1	-	-	-	2.9	-	-
8	1	-	-	-	-	4.8	-
9	1	-	-	-	-	-	0.9

Composite Gain (dBi)			
Stream	2.4G	U-NII-1	U-NII-3
1SS	3.23	5.23	5.41
2SS	3.2	4.09	3.29
3SS	-	4.09	3.29
4SS	-	4.09	3.29

Note 1: The EUT has nine antennas.

For 2.4GHz function:

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

Only Ant. 1 (port 1) could transmit/receive.

For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX)

Ant. 1 (port 1) ~ Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

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

Ant. 7 can be used as transmitting/receiving antenna.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (4TX/4RX)

Ant. 3 (port 1) ~ Ant. 6 (port 4) could transmit/receive simultaneously.

For Zigbee function:

For Zigbee mode (1TX/1RX)

Ant. 8 (port 1) could transmit/receive.

For Z-Wave function:

For Z-Wave mode (1TX/1RX)

Ant. 9 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Adapter
Software Version	5.04L.03
Hardware Version	LAB1
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 Test Signal Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
Z-Wave	0.821	0.86	6.265m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15.249
- ♦ ANSI C63.10-2013

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

- ♦ KDB 662911
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	21.5~22.1°C / 50~60%	20/Jul/2022
RF Conducted	TH01-HY	Johnny Yu	22.3~26.5°C / 52~53%	23/Jul/2022~15/Aug/2022
Radiated	03CH02-HY	Jack Tang	21.4~22.4°C / 56~63%	27/Jun/2022~28/Jul/2022
Radiated (Co-location)	03CH02-HY	Jack Tang	21.4~22.4°C / 56~63%	02/Sep/2022
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

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)	0.9 dB	Confidence levels of 95%
Emission Bandwidth	3 MHz	Confidence levels of 95%
Fundamental Emissions	4.8 dB	Confidence levels of 95%
Transmitter Radiated Unwanted Emissions	4.8 dB	Confidence levels of 95%
Receiver Radiated Unwanted Emissions	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	Dos V6.1
-----------------------	----------

Mode	Power Setting
Z-Wave	-
908.4MHz	9

2.2 The Worst Case Modulation Configuration

Modulation Used for Conformance Testing	
Test Mode	Field Strength (dBuV/m at 3 m)
Z-Wave	93.37

2.3 Test Channel Frequencies Configuration

Test Channel Frequencies Configuration	
Test Mode	Test Channel Frequencies (MHz)
Z-Wave	908.4

2.4 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	CTX
1	Adapter Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Fundamental Emissions, 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 < 1GHz	CTX		
1	Adapter Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth + Zigbee + Zwave
Refer to Sporton Test Report No.: FA262320 for Co-location RF Exposure Evaluation and Appendix D for Radiated Emission Co-location.	

2.5 Accessories

Accessories				
AC Adapter	Brand Name	HONOR	Model Name	ADS-24FUA-12 12024EPCU
	Power Rating	I/P: 100 - 240Vac, 0.7 A, O/P: 12 Vdc, 2.0A		
	Power Cord	1.15 meter, non-shielded cable, w/o ferrite core		
Stand	Brand Name	NA	Model Name	NA

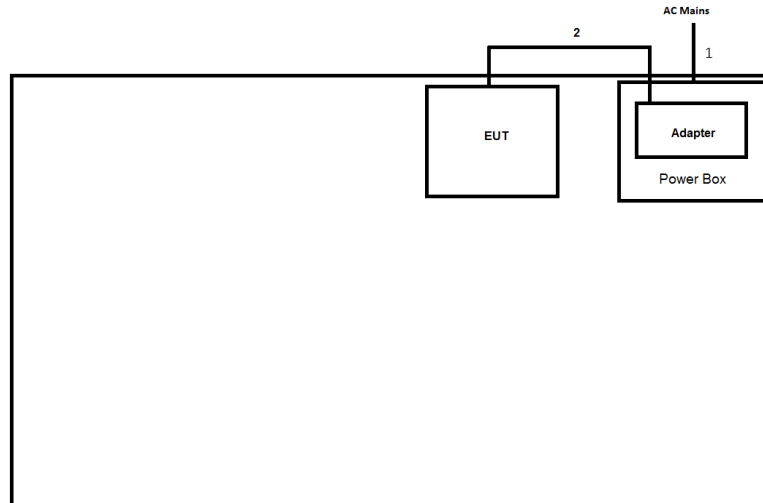
Note: Regarding to more detail and other information, please refer to user manual.

2.6 Support Equipment

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

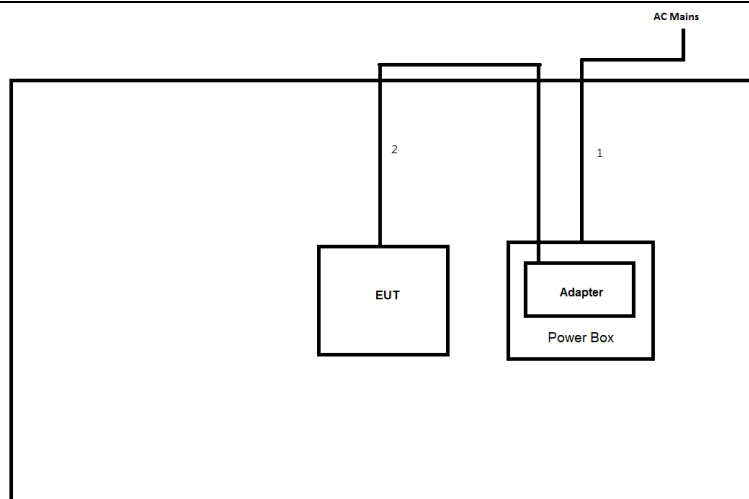
2.7 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.15	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.15	-

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

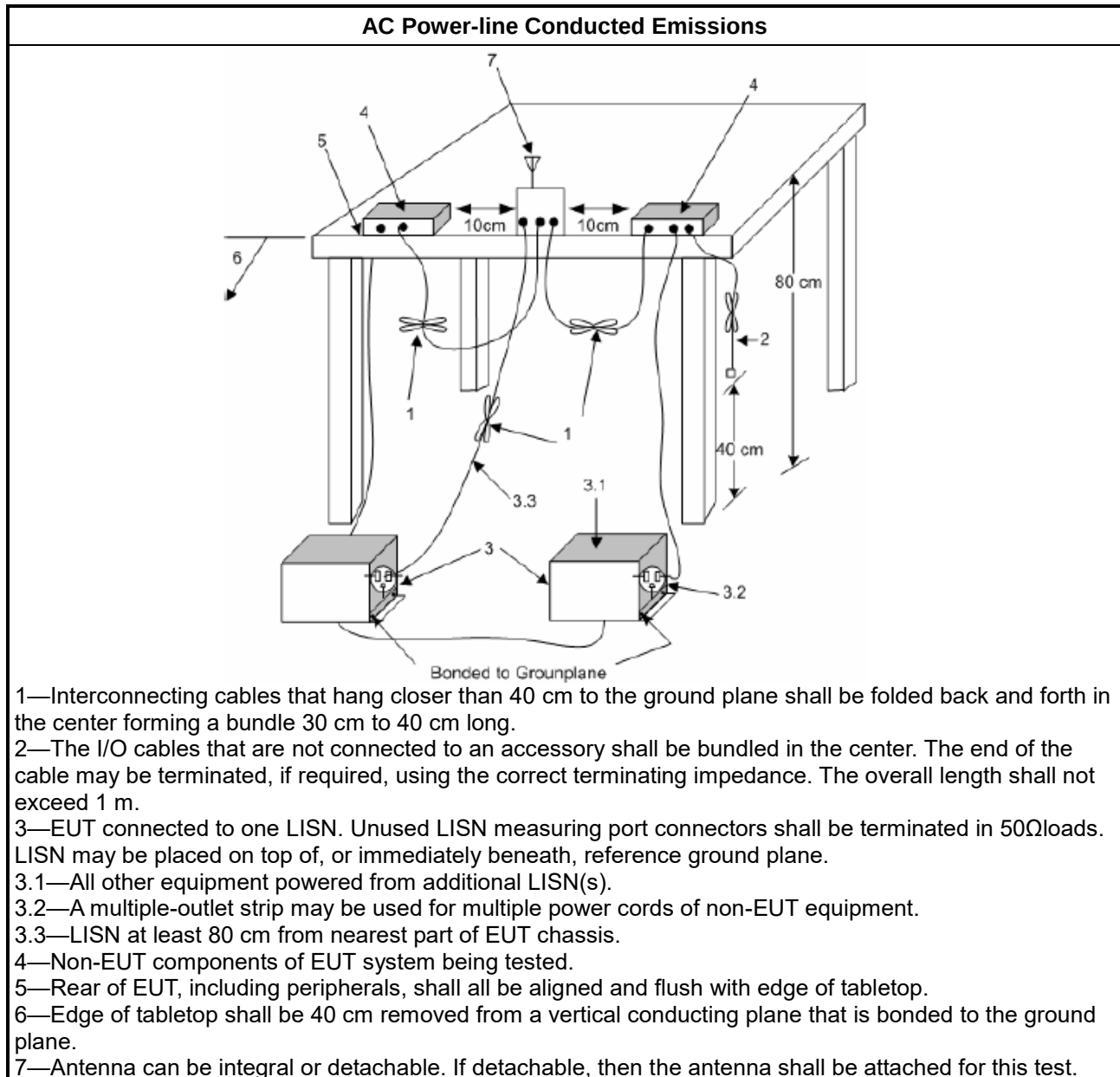
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
☒	Emission bandwidth falls completely within authorized band.

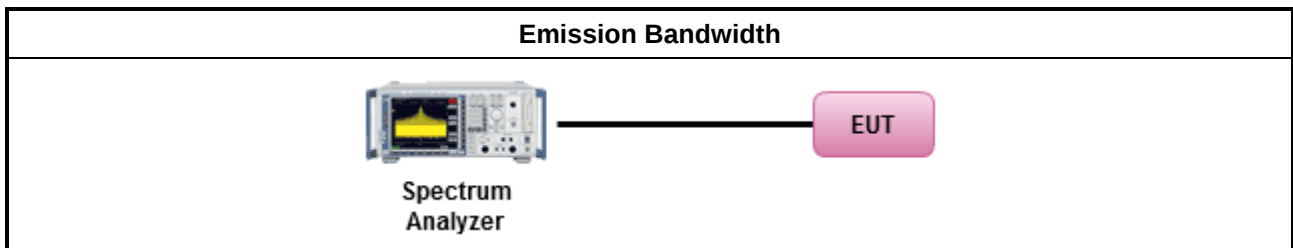
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
☒	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Fundamental Emissions

3.3.1 Fundamental Emissions Limit

Fundamental Emissions E-Field Strength Limit (3m)	
☒	902-928 MHz Band: 94 dBuV/m (quasi peak)
☐	2400-2483.5 MHz Band: 94 dBuV/m (average)
☐	5725-5875 MHz Band: 94 dBuV/m (average)

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

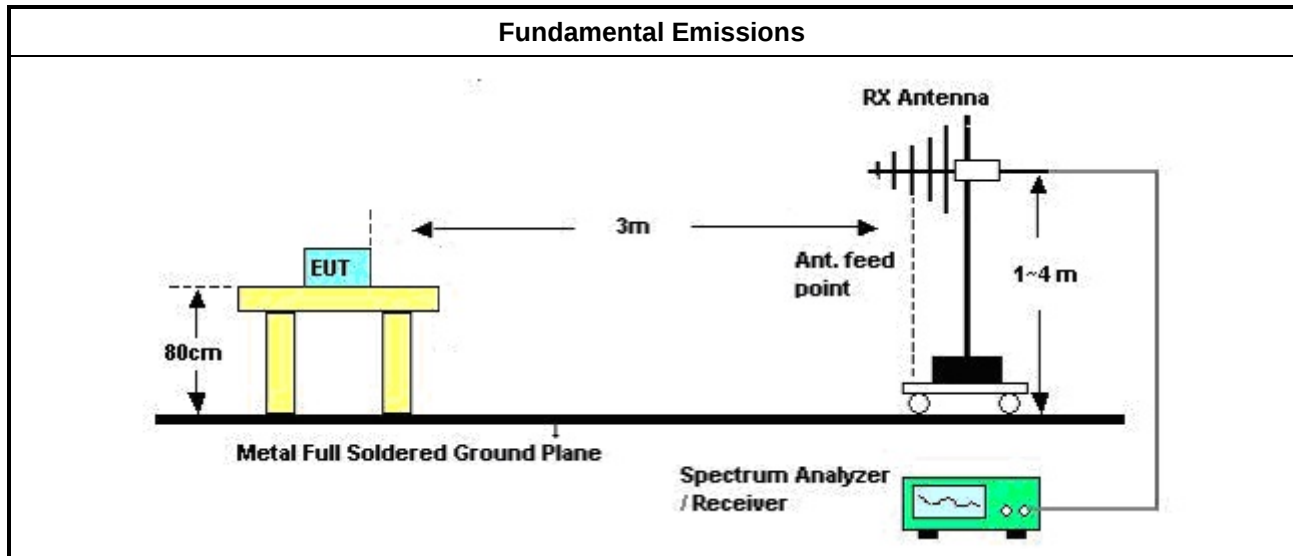
☒	The average emission levels shall be measured in [duty cycle ≥ 100 or by duty cycle correction factor].
☒	For the transmitter emissions shall be measured using following options below:
☒	Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW) – Duty cycle $\geq 100\%$.
☐	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$. Average emission = peak emission + $20 \log(\text{duty cycle})$.
☒	Refer as ANSI C63.10, clause 4.1.4.2.1 measurement procedure quasi-peak limit.
☐	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
☐	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.

3.3.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.3.5 Test Setup



3.3.6 Test Result of Fundamental Emissions

Refer as Appendix C

3.4 Transmitter Radiated Unwanted Emissions

3.4.1 Transmitter Radiated Unwanted Emissions Limit

Transmitter Radiated Unwanted Emissions Limit	
Harmonics:	
☒	54 dBuV/m (average)
Other Unwanted Emissions:	
☒	50 dB below the level of the fundamental or Part 15.209, whichever is the lesser attenuation.

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method – General Information	
☒	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).
☒	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
☒	Refer as ANSI C63.10, clause 6.10.3 bandedge 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 ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW) – Duty cycle $\geq$ 100%.
☐	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$. Average emission = peak emission + 20 log (duty cycle).
☒	Refer as ANSI C63.10, clause 4.1.4.2.1 measurement procedure quasi-peak limit.
☐	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
☒	For the transmitter bandedge emissions shall be measured using following options below:
☒	Refer as ANSI C63.10, clause 6.10 for band-edge testing.
☐	Refer as ANSI C63.10, clause 6.10.6 for marker-delta method for band-edge measurements.
☒	For radiated measurement.
☒	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.
☒	The any unwanted emissions level shall not exceed the fundamental emission level.
☒	All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

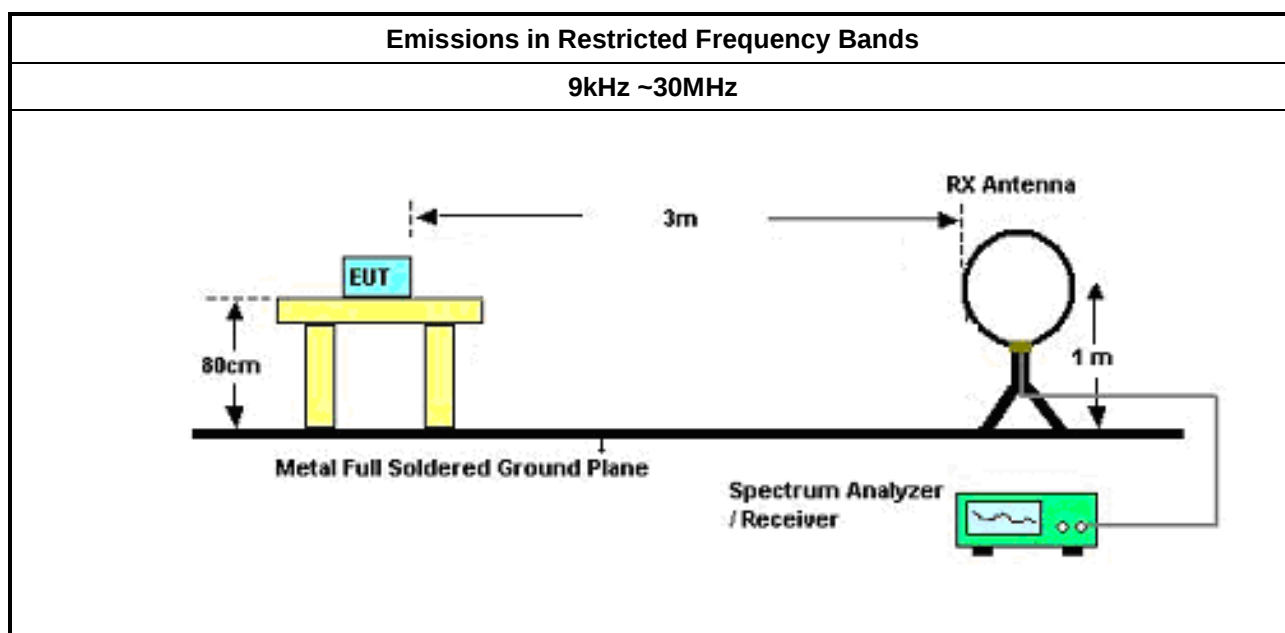
▪	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
▪	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
▪	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

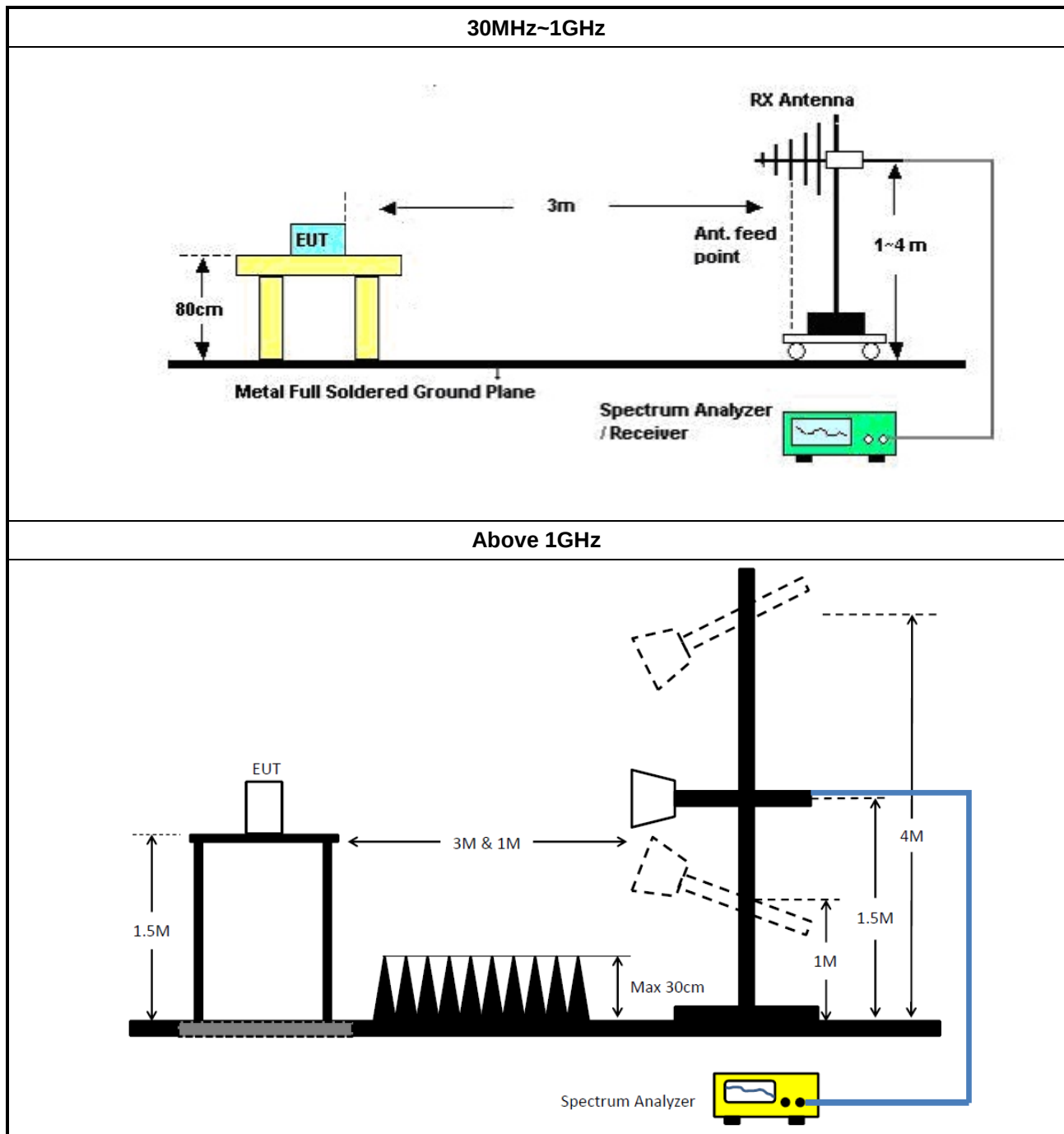
3.4.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.4.5 Test Setup





3.4.6 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

3.4.7 Transmitter Radiated Unwanted Emissions

Refer as Appendix C

3.5 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.1014	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15247_FS	Sporton	V5.10.7.16	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	28/Jun/2022	27/Jun/2023
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	04/May/2022	03/May/2023
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	04/May/2022	03/May/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15247	Sporton	V5.10.7.15	N/A	N/A	N/A	N/A

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
SENSE-EMI	Sporton	V5.10.8	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

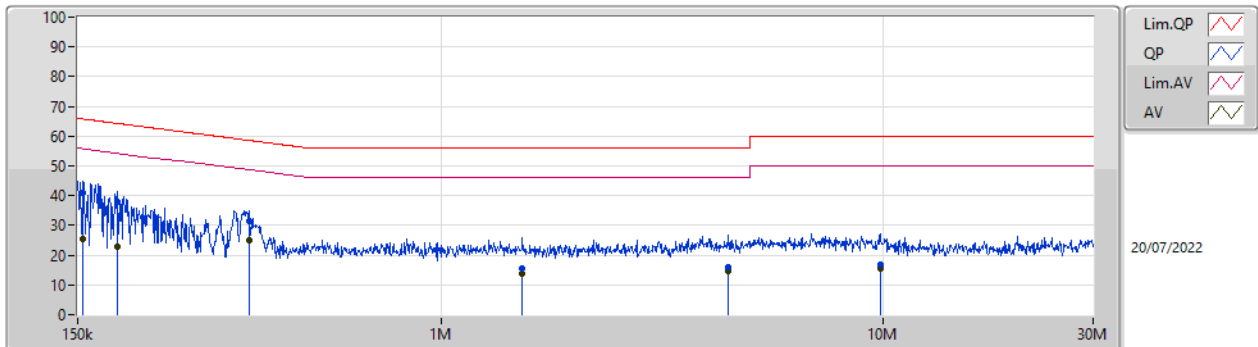
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	156.109k	43.37	65.67	-22.30	Neutral

Result

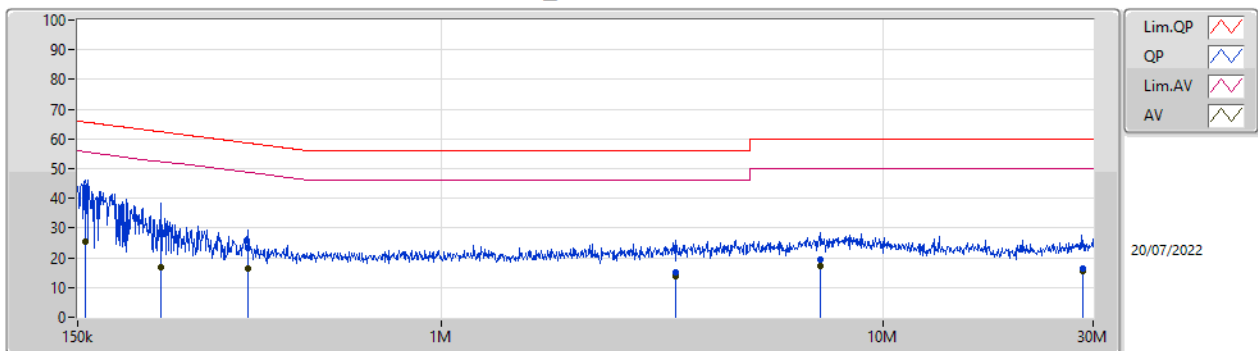
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	153.636k	41.10	65.81	-24.71	Line	-
Mode 1	Pass	AV	153.636k	25.32	55.81	-30.49	Line	-
Mode 1	Pass	QP	184.605k	38.00	64.28	-26.28	Line	-
Mode 1	Pass	AV	184.605k	22.85	54.28	-31.43	Line	-
Mode 1	Pass	QP	366.811k	31.45	58.58	-27.13	Line	-
Mode 1	Pass	AV	366.811k	24.80	48.58	-23.78	Line	-
Mode 1	Pass	QP	1.525M	15.46	56.00	-40.54	Line	-
Mode 1	Pass	AV	1.525M	13.76	46.00	-32.24	Line	-
Mode 1	Pass	QP	4.482M	15.85	56.00	-40.15	Line	-
Mode 1	Pass	AV	4.482M	14.75	46.00	-31.25	Line	-
Mode 1	Pass	QP	9.88M	16.66	60.00	-43.34	Line	-
Mode 1	Pass	AV	9.88M	15.34	50.00	-34.66	Line	-
Mode 1	Pass	QP	156.109k	43.37	65.67	-22.30	Neutral	-
Mode 1	Pass	AV	156.109k	25.55	55.67	-30.12	Neutral	-
Mode 1	Pass	QP	231.775k	28.01	62.39	-34.38	Neutral	-
Mode 1	Pass	AV	231.775k	16.90	52.39	-35.49	Neutral	-
Mode 1	Pass	QP	363.895k	23.36	58.64	-35.28	Neutral	-
Mode 1	Pass	AV	363.895k	16.25	48.64	-32.39	Neutral	-
Mode 1	Pass	QP	3.403M	14.94	56.00	-41.06	Neutral	-
Mode 1	Pass	AV	3.403M	13.95	46.00	-32.05	Neutral	-
Mode 1	Pass	QP	7.236M	19.51	60.00	-40.49	Neutral	-
Mode 1	Pass	AV	7.236M	17.04	50.00	-32.96	Neutral	-
Mode 1	Pass	QP	28.344M	16.17	60.00	-43.83	Neutral	-
Mode 1	Pass	AV	28.344M	15.51	50.00	-34.49	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.636k	41.10	65.81	-24.71	19.63	Line	-	21.47	9.69	0.03	9.91			
AV	153.636k	25.32	55.81	-30.49	19.63	Line	-	5.69	9.69	0.03	9.91			
QP	184.605k	38.00	64.28	-26.28	19.63	Line	-	18.37	9.69	0.03	9.91			
AV	184.605k	22.85	54.28	-31.43	19.63	Line	-	3.22	9.69	0.03	9.91			
QP	366.811k	31.45	58.58	-27.13	19.63	Line	-	11.82	9.68	0.04	9.91			
AV	366.811k	24.80	48.58	-23.78	19.63	Line	-	5.17	9.68	0.04	9.91			
QP	1.525M	15.46	56.00	-40.54	19.68	Line	-	-4.22	9.69	0.07	9.92			
AV	1.525M	13.76	46.00	-32.24	19.68	Line	-	-5.92	9.69	0.07	9.92			
QP	4.482M	15.85	56.00	-40.15	19.78	Line	-	-3.93	9.72	0.14	9.92			
AV	4.482M	14.75	46.00	-31.25	19.78	Line	-	-5.03	9.72	0.14	9.92			
QP	9.88M	16.66	60.00	-43.34	19.92	Line	-	-3.26	9.81	0.18	9.93			
AV	9.88M	15.34	50.00	-34.66	19.92	Line	-	-4.58	9.81	0.18	9.93			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.109k	43.37	65.67	-22.30	19.67	Neutral	-	23.70	9.73	0.03	9.91			
AV	156.109k	25.55	55.67	-30.12	19.67	Neutral	-	5.88	9.73	0.03	9.91			
QP	231.775k	28.01	62.39	-34.38	19.66	Neutral	-	8.35	9.72	0.03	9.91			
AV	231.775k	16.90	52.39	-35.49	19.66	Neutral	-	-2.76	9.72	0.03	9.91			
QP	363.895k	23.36	58.64	-35.28	19.67	Neutral	-	3.69	9.72	0.04	9.91			
AV	363.895k	16.25	48.64	-32.39	19.67	Neutral	-	-3.42	9.72	0.04	9.91			
QP	3.403M	14.94	56.00	-41.06	19.80	Neutral	-	-4.86	9.76	0.12	9.92			
AV	3.403M	13.95	46.00	-32.05	19.80	Neutral	-	-5.85	9.76	0.12	9.92			
QP	7.236M	19.51	60.00	-40.49	19.93	Neutral	-	-0.42	9.84	0.16	9.93			
AV	7.236M	17.04	50.00	-32.96	19.93	Neutral	-	-2.89	9.84	0.16	9.93			
QP	28.344M	16.17	60.00	-43.83	20.39	Neutral	-	-4.22	10.12	0.33	9.94			
AV	28.344M	15.51	50.00	-34.49	20.39	Neutral	-	-4.88	10.12	0.33	9.94			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	G1D-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
Z-Wave	184.375k	86.207k	86K2G1D	184.375k	86.207k

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

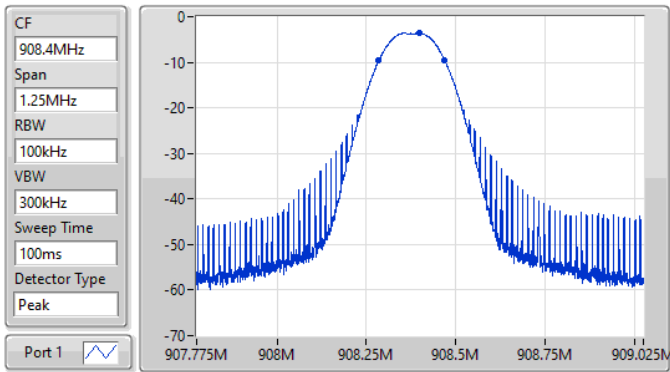
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
Z-Wave	-	-	-	-
908.4MHz	Pass	Inf	184.375k	86.207k

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

Z-Wave

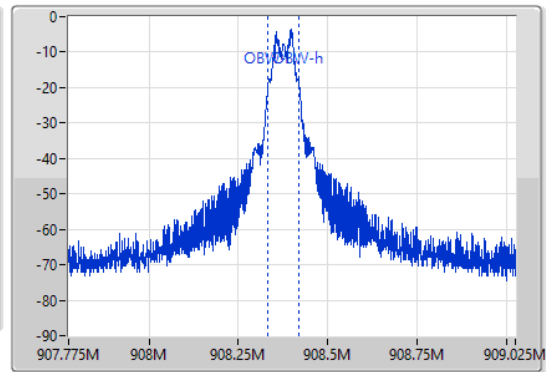
908.4MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
184.375k	908.285M	908.469375M	86.207k	908.333783M	908.41999M	Inf	1

EBW

27/07/2022





Summary

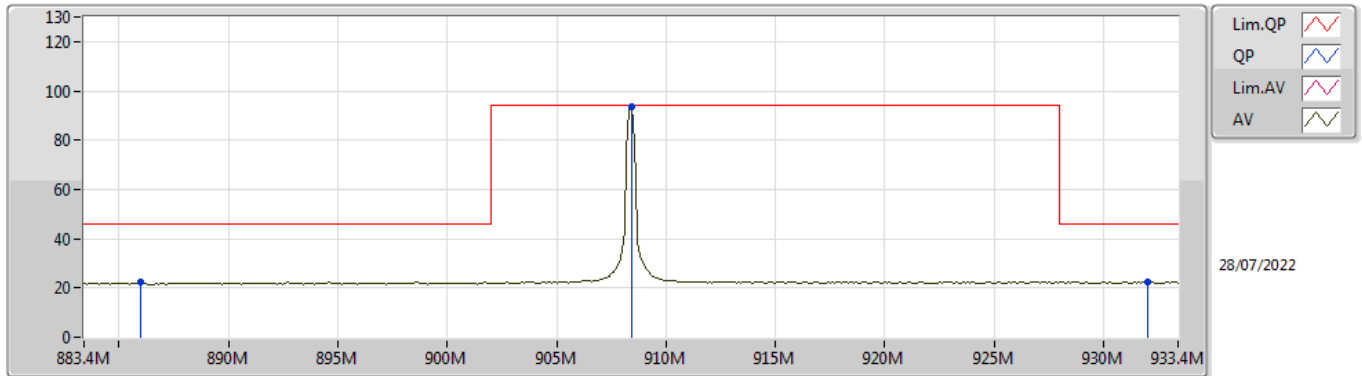
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
902-928MHz	-	-	-	-	-	-	-	-	-	-	-
Z-Wave	Pass	QP	908.4M	93.37	94.00	-0.63	3	Vertical	192	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Z-Wave	-	-	-	-	-	-	-	-	-	-	-
908.4MHz	Pass	QP	886M	22.27	46.00	-23.73	3	Vertical	192	1.00	-
908.4MHz	Pass	QP	908.4M	93.37	94.00	-0.63	3	Vertical	192	1.00	-
908.4MHz	Pass	QP	932M	22.50	46.00	-23.50	3	Vertical	192	1.00	-
908.4MHz	Pass	QP	891M	22.30	46.00	-23.70	3	Horizontal	250	1.00	-
908.4MHz	Pass	QP	908.39M	88.50	94.00	-5.50	3	Horizontal	250	1.00	-
908.4MHz	Pass	QP	928.7M	22.49	46.00	-23.51	3	Horizontal	250	1.00	-
908.4MHz	Pass	PK	30M	34.73	40.00	-5.27	3	Vertical	360	1.00	-
908.4MHz	Pass	PK	64.92M	35.18	40.00	-4.82	3	Vertical	360	1.00	-
908.4MHz	Pass	PK	185.2M	33.28	43.50	-10.22	3	Vertical	360	1.00	-
908.4MHz	Pass	PK	270.56M	26.23	46.00	-19.77	3	Vertical	360	1.00	-
908.4MHz	Pass	PK	408.3M	28.41	46.00	-17.59	3	Vertical	360	1.00	-
908.4MHz	Pass	PK	456.8M	32.37	46.00	-13.63	3	Vertical	360	1.00	-
908.4MHz	Pass	PK	30M	33.82	40.00	-6.18	3	Horizontal	0	1.00	-
908.4MHz	Pass	PK	163.86M	30.46	43.50	-13.04	3	Horizontal	0	1.00	-
908.4MHz	Pass	PK	183.26M	35.30	43.50	-8.20	3	Horizontal	0	1.00	-
908.4MHz	Pass	PK	270.56M	28.52	46.00	-17.48	3	Horizontal	0	1.00	-
908.4MHz	Pass	PK	377.26M	29.79	46.00	-16.21	3	Horizontal	0	1.00	-
908.4MHz	Pass	PK	650.8M	32.01	46.00	-13.99	3	Horizontal	0	1.00	-

Z-Wave

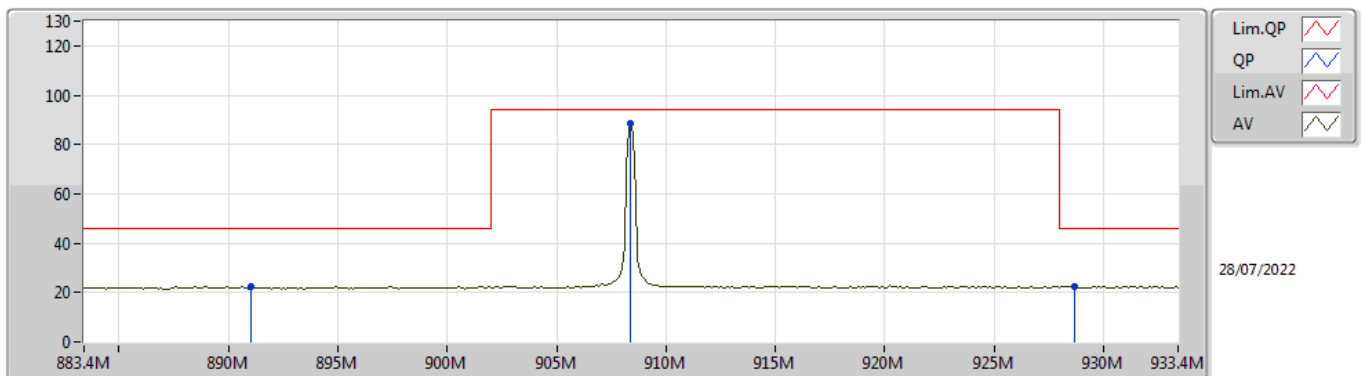
908.4MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
QP	886M	22.27	46.00	-23.73	2.28	3	Vertical	192	1.00	-	19.99	25.63	4.43	27.78
QP	908.4M	93.37	94.00	-0.63	2.48	3	Vertical	192	1.00	-	90.89	25.69	4.50	27.71
QP	932M	22.50	46.00	-23.50	2.79	3	Vertical	192	1.00	-	19.71	25.90	4.50	27.61

Z-Wave

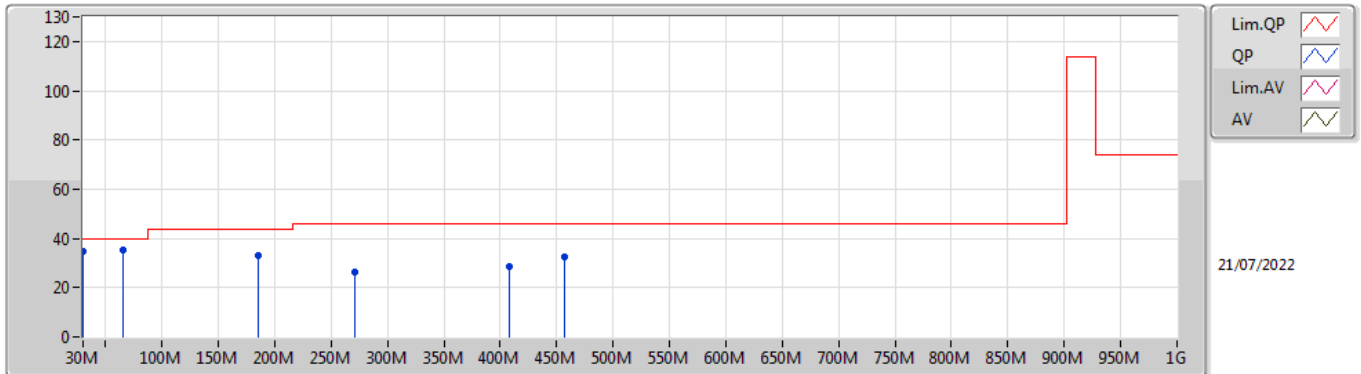
908.4MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
QP	891M	22.30	46.00	-23.70	2.33	3	Horizontal	250	1.00	-	19.97	25.65	4.45	27.77
QP	908.39M	88.50	94.00	-5.50	2.48	3	Horizontal	250	1.00	-	86.02	25.69	4.50	27.71
QP	928.7M	22.49	46.00	-23.51	2.75	3	Horizontal	250	1.00	-	19.74	25.87	4.50	27.62

Z-Wave

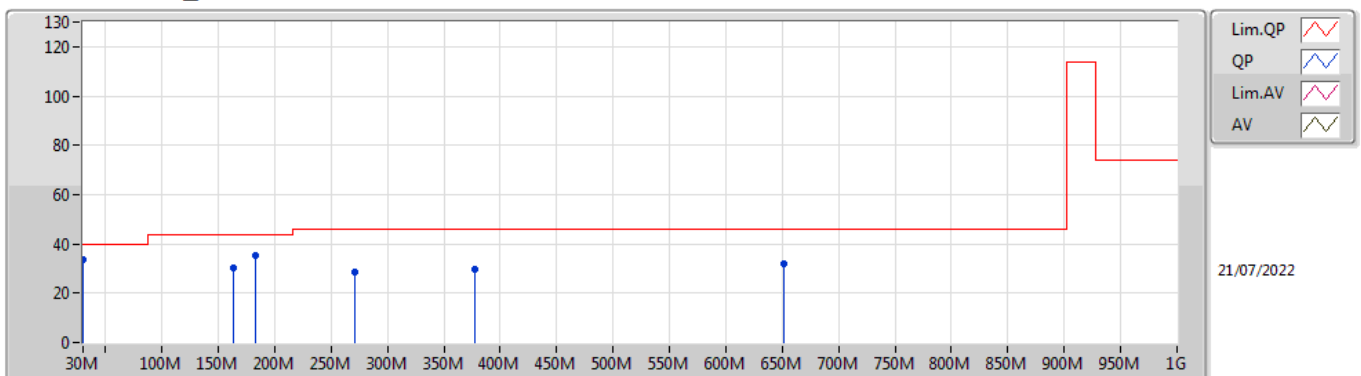
908.4MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	34.73	40.00	-5.27	-2.68	3	Vertical	360	1.00	-	37.41	23.26	1.02	26.96
PK	64.92M	35.18	40.00	-4.82	-15.15	3	Vertical	360	1.00	-	50.33	11.43	1.17	27.75
PK	185.2M	33.28	43.50	-10.22	-11.19	3	Vertical	360	1.00	-	44.47	14.34	1.95	27.48
PK	270.56M	26.23	46.00	-19.77	-6.75	3	Vertical	360	1.00	-	32.98	18.06	2.36	27.17
PK	408.3M	28.41	46.00	-17.59	-3.55	3	Vertical	360	1.00	-	31.96	21.45	2.91	27.91
PK	456.8M	32.37	46.00	-13.63	-3.09	3	Vertical	360	1.00	-	35.46	22.08	3.11	28.28

Z-Wave

908.4MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	33.82	40.00	-6.18	-2.68	3	Horizontal	0	1.00	-	36.50	23.26	1.02	26.96
PK	163.86M	30.46	43.50	-13.04	-10.68	3	Horizontal	0	1.00	-	41.14	15.11	1.81	27.60
PK	183.26M	35.30	43.50	-8.20	-11.17	3	Horizontal	0	1.00	-	46.47	14.38	1.94	27.49
PK	270.56M	28.52	46.00	-17.48	-6.75	3	Horizontal	0	1.00	-	35.27	18.06	2.36	27.17
PK	377.26M	29.79	46.00	-16.21	-4.79	3	Horizontal	0	1.00	-	34.58	20.10	2.80	27.69
PK	650.8M	32.01	46.00	-13.99	-0.67	3	Horizontal	0	1.00	-	32.68	24.19	3.70	28.56



Summary

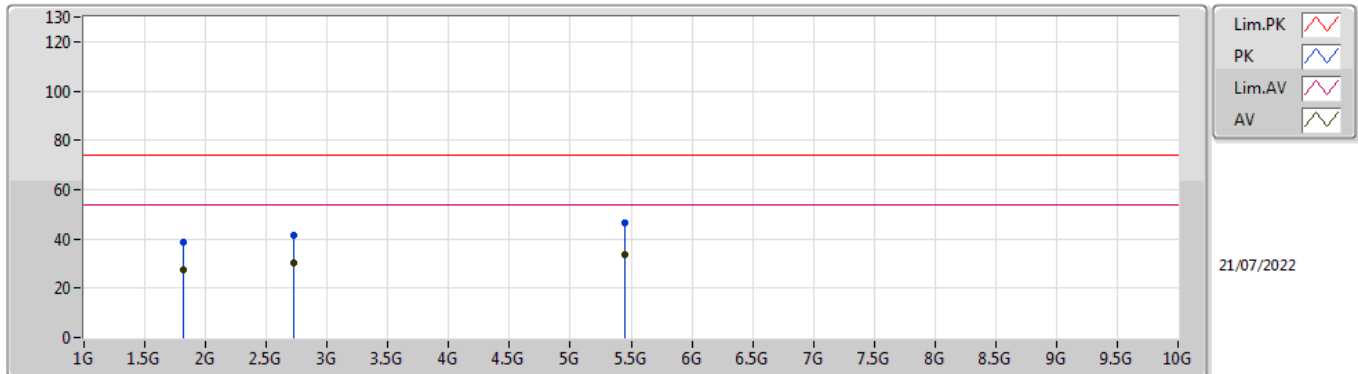
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
902-928MHz	-	-	-	-	-	-	-	-	-	-	-
Z-Wave	Pass	AV	5.4503G	36.03	54.00	-17.97	3	Horizontal	298	1.96	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Z-Wave	-	-	-	-	-	-	-	-	-	-	-
908.4MHz	Pass	AV	1.81676G	27.59	54.00	-26.41	3	Vertical	347	2.50	-
908.4MHz	Pass	AV	2.72509G	30.11	54.00	-23.89	3	Vertical	0	1.72	-
908.4MHz	Pass	AV	5.45041G	33.46	54.00	-20.54	3	Vertical	304	2.98	-
908.4MHz	Pass	PK	1.81707G	38.55	74.00	-35.45	3	Vertical	347	2.50	-
908.4MHz	Pass	PK	2.72534G	41.25	74.00	-32.75	3	Vertical	0	1.72	-
908.4MHz	Pass	PK	5.45022G	46.60	74.00	-27.40	3	Vertical	304	2.98	-
908.4MHz	Pass	AV	1.81677G	33.28	54.00	-20.72	3	Horizontal	293	2.49	-
908.4MHz	Pass	AV	2.72515G	35.01	54.00	-18.99	3	Horizontal	314	1.01	-
908.4MHz	Pass	AV	5.4503G	36.03	54.00	-17.97	3	Horizontal	298	1.96	-
908.4MHz	Pass	PK	1.81678G	41.09	74.00	-32.91	3	Horizontal	293	2.49	-
908.4MHz	Pass	PK	2.725G	42.98	74.00	-31.02	3	Horizontal	314	1.01	-
908.4MHz	Pass	PK	5.4504G	46.39	74.00	-27.61	3	Horizontal	298	1.96	-

Z-Wave

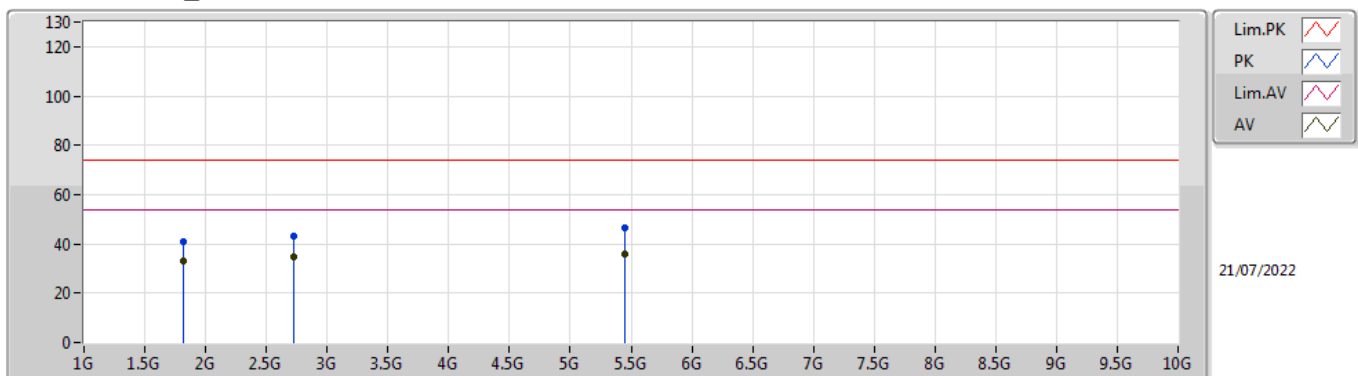
908.4MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	1.81676G	27.59	54.00	-26.41	-1.75	3	Vertical	347	2.50	-	29.34	24.87	7.54	34.16
AV	2.72509G	30.11	54.00	-23.89	2.44	3	Vertical	0	1.72	-	27.67	28.30	8.49	34.35
AV	5.45041G	33.46	54.00	-20.54	8.74	3	Vertical	304	2.98	-	24.72	32.90	10.02	34.18
PK	1.81707G	38.55	74.00	-35.45	-1.75	3	Vertical	347	2.50	-	40.30	24.87	7.54	34.16
PK	2.72534G	41.25	74.00	-32.75	2.44	3	Vertical	0	1.72	-	38.81	28.30	8.49	34.35
PK	5.45022G	46.60	74.00	-27.40	8.74	3	Vertical	304	2.98	-	37.86	32.90	10.02	34.18

Z-Wave

908.4MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	1.81677G	33.28	54.00	-20.72	-1.75	3	Horizontal	293	2.49	-	35.03	24.87	7.54	34.16
AV	2.72515G	35.01	54.00	-18.99	2.44	3	Horizontal	314	1.01	-	32.57	28.30	8.49	34.35
AV	5.4503G	36.03	54.00	-17.97	8.74	3	Horizontal	298	1.96	-	27.29	32.90	10.02	34.18
PK	1.81678G	41.09	74.00	-32.91	-1.75	3	Horizontal	293	2.49	-	42.84	24.87	7.54	34.16
PK	2.725G	42.98	74.00	-31.02	2.44	3	Horizontal	314	1.01	-	40.54	28.30	8.49	34.35
PK	5.4504G	46.39	74.00	-27.61	8.74	3	Horizontal	298	1.96	-	37.65	32.90	10.02	34.18



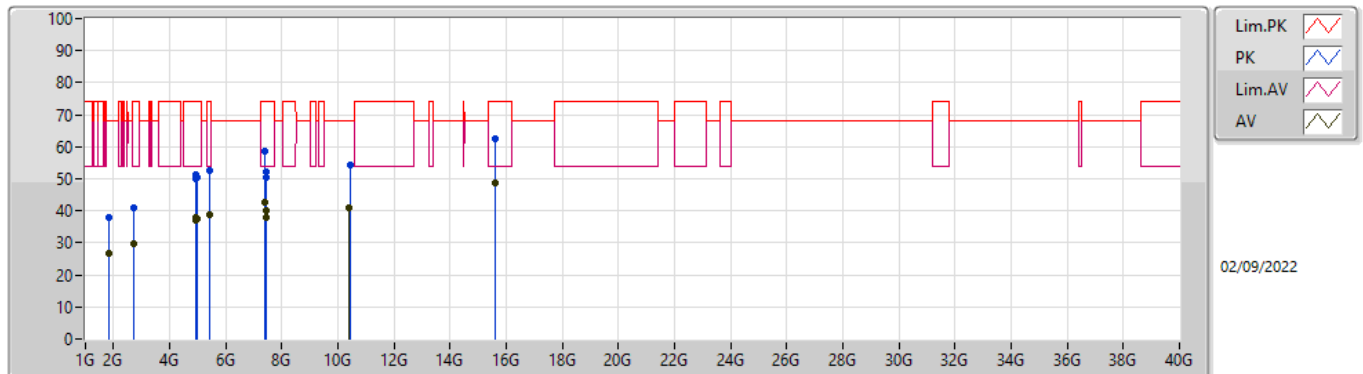
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	15.63169G	49.01	54.00	-4.99	Horizontal

Result

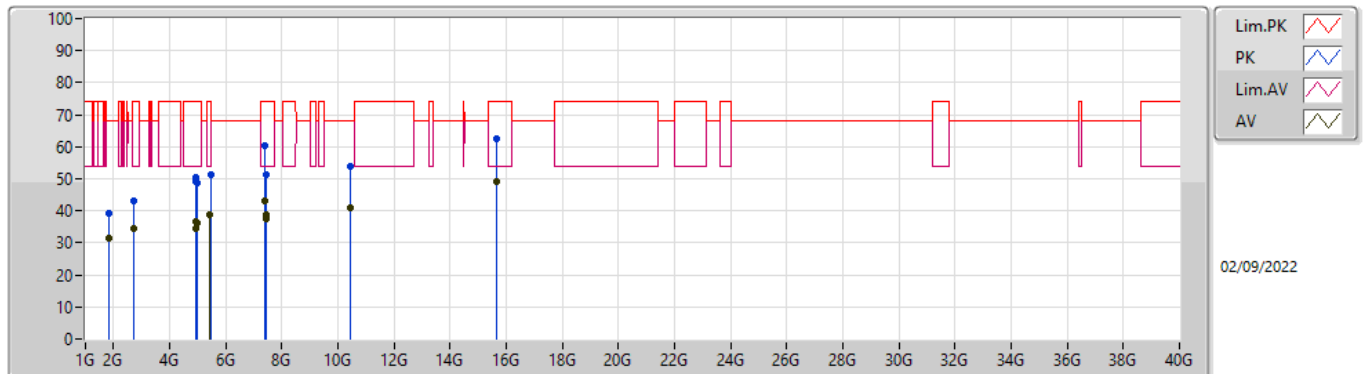
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.81675G	26.60	68.20	-41.60	3	Vertical	22	2.90	-
Mode 1	Pass	AV	2.72511G	29.53	54.00	-24.47	3	Vertical	350	1.68	-
Mode 1	Pass	AV	4.92393G	37.07	54.00	-16.93	3	Vertical	135	1.96	-
Mode 1	Pass	AV	4.9497G	37.98	54.00	-16.02	3	Vertical	115	1.80	-
Mode 1	Pass	AV	4.96071G	37.63	54.00	-16.37	3	Vertical	105	1.74	-
Mode 1	Pass	AV	5.44804G	38.86	54.00	-15.14	3	Vertical	106	1.73	-
Mode 1	Pass	AV	7.38449G	42.73	54.00	-11.27	3	Vertical	140	1.72	-
Mode 1	Pass	AV	7.42458G	37.72	54.00	-16.28	3	Vertical	270	1.00	-
Mode 1	Pass	AV	7.43874G	39.97	54.00	-14.03	3	Vertical	77	1.89	-
Mode 1	Pass	AV	10.41248G	40.98	68.20	-27.22	3	Vertical	242	1.02	-
Mode 1	Pass	AV	15.63077G	48.86	54.00	-5.14	3	Vertical	189	1.95	-
Mode 1	Pass	PK	1.8169G	38.05	68.20	-30.15	3	Vertical	22	2.90	-
Mode 1	Pass	PK	2.72506G	40.83	74.00	-33.17	3	Vertical	350	1.68	-
Mode 1	Pass	PK	4.92398G	50.12	74.00	-23.88	3	Vertical	135	1.96	-
Mode 1	Pass	PK	4.9498G	51.45	74.00	-22.55	3	Vertical	115	1.80	-
Mode 1	Pass	PK	4.96154G	50.62	74.00	-23.38	3	Vertical	105	1.74	-
Mode 1	Pass	PK	5.45004G	52.46	74.00	-21.54	3	Vertical	106	1.73	-
Mode 1	Pass	PK	7.38217G	58.66	74.00	-15.34	3	Vertical	140	1.72	-
Mode 1	Pass	PK	7.42528G	50.64	74.00	-23.36	3	Vertical	270	1.00	-
Mode 1	Pass	PK	7.4399G	52.23	74.00	-21.77	3	Vertical	77	1.89	-
Mode 1	Pass	PK	10.42254G	54.18	68.20	-14.02	3	Vertical	242	1.02	-
Mode 1	Pass	PK	15.62245G	62.58	74.00	-11.42	3	Vertical	189	1.95	-
Mode 1	Pass	AV	1.8167G	31.52	68.20	-36.68	3	Horizontal	293	1.58	-
Mode 1	Pass	AV	2.72514G	34.51	54.00	-19.49	3	Horizontal	300	1.06	-
Mode 1	Pass	AV	4.92399G	34.52	54.00	-19.48	3	Horizontal	319	1.48	-
Mode 1	Pass	AV	4.94911G	36.45	54.00	-17.55	3	Horizontal	142	1.74	-
Mode 1	Pass	AV	4.96047G	36.21	54.00	-17.79	3	Horizontal	151	1.50	-
Mode 1	Pass	AV	5.45032G	38.59	54.00	-15.41	3	Horizontal	328	1.77	-
Mode 1	Pass	AV	7.38647G	43.25	54.00	-10.75	3	Horizontal	353	1.67	-
Mode 1	Pass	AV	7.42219G	37.57	54.00	-16.43	3	Horizontal	40	1.95	-
Mode 1	Pass	AV	7.44129G	38.86	54.00	-15.14	3	Horizontal	35	1.50	-
Mode 1	Pass	AV	10.42264G	40.95	68.20	-27.25	3	Horizontal	190	1.91	-
Mode 1	Pass	AV	15.63169G	49.01	54.00	-4.99	3	Horizontal	46	1.50	-
Mode 1	Pass	PK	1.81678G	39.08	68.20	-29.12	3	Horizontal	293	1.58	-
Mode 1	Pass	PK	2.725G	42.94	74.00	-31.06	3	Horizontal	300	1.06	-
Mode 1	Pass	PK	4.92366G	49.20	74.00	-24.80	3	Horizontal	319	1.48	-
Mode 1	Pass	PK	4.94983G	50.26	74.00	-23.74	3	Horizontal	142	1.74	-
Mode 1	Pass	PK	4.95968G	48.68	74.00	-25.32	3	Horizontal	151	1.50	-
Mode 1	Pass	PK	5.45121G	51.49	74.00	-22.51	3	Horizontal	328	1.77	-
Mode 1	Pass	PK	7.39152G	60.30	74.00	-13.70	3	Horizontal	353	1.67	-
Mode 1	Pass	PK	7.42868G	51.21	74.00	-22.79	3	Horizontal	40	1.95	-
Mode 1	Pass	PK	7.44145G	51.34	74.00	-22.66	3	Horizontal	35	1.50	-
Mode 1	Pass	PK	10.4251G	54.04	68.20	-14.16	3	Horizontal	190	1.91	-
Mode 1	Pass	PK	15.63348G	62.31	74.00	-11.69	3	Horizontal	46	1.50	-

Radiated Emissions above 1GHz_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)
AV	1.81675G	26.60	68.20	-41.60	-1.75	3	Vertical	22	2.90	-	28.35	24.87	7.54	34.16
AV	2.72511G	29.53	54.00	-24.47	2.44	3	Vertical	350	1.68	-	27.09	28.30	8.49	34.35
AV	4.92393G	37.07	54.00	-16.93	8.38	3	Vertical	135	1.96	-	28.69	32.80	9.72	34.14
AV	4.9497G	37.98	54.00	-16.02	8.51	3	Vertical	115	1.80	-	29.47	32.90	9.73	34.12
AV	4.96071G	37.63	54.00	-16.37	8.55	3	Vertical	105	1.74	-	29.08	32.94	9.73	34.12
AV	5.44804G	38.86	54.00	-15.14	8.74	3	Vertical	106	1.73	-	30.12	32.90	10.02	34.18
AV	7.38449G	42.73	54.00	-11.27	13.34	3	Vertical	140	1.72	-	29.39	36.49	11.34	34.49
AV	7.42458G	37.72	54.00	-16.28	13.13	3	Vertical	270	1.00	-	24.59	36.30	11.32	34.49
AV	7.43874G	39.97	54.00	-14.03	13.06	3	Vertical	77	1.89	-	26.91	36.25	11.30	34.49
AV	10.41248G	40.98	68.20	-27.22	16.83	3	Vertical	242	1.02	-	24.15	38.69	12.69	34.55
AV	15.63077G	48.86	54.00	-5.14	19.82	3	Vertical	189	1.95	-	29.04	38.55	15.75	34.48
PK	1.8169G	38.05	68.20	-30.15	-1.75	3	Vertical	22	2.90	-	39.80	24.87	7.54	34.16
PK	2.72506G	40.83	74.00	-33.17	2.44	3	Vertical	350	1.68	-	38.39	28.30	8.49	34.35
PK	4.92398G	50.12	74.00	-23.88	8.38	3	Vertical	135	1.96	-	41.74	32.80	9.72	34.14
PK	4.9498G	51.45	74.00	-22.55	8.51	3	Vertical	115	1.80	-	42.94	32.90	9.73	34.12
PK	4.96154G	50.62	74.00	-23.38	8.56	3	Vertical	105	1.74	-	42.06	32.95	9.73	34.12
PK	5.45004G	52.46	74.00	-21.54	8.74	3	Vertical	106	1.73	-	43.72	32.90	10.02	34.18
PK	7.38217G	58.66	74.00	-15.34	13.36	3	Vertical	140	1.72	-	45.30	36.51	11.34	34.49
PK	7.42528G	50.64	74.00	-23.36	13.12	3	Vertical	270	1.00	-	37.52	36.30	11.31	34.49
PK	7.4399G	52.23	74.00	-21.77	13.05	3	Vertical	77	1.89	-	39.18	36.24	11.30	34.49
PK	10.42254G	54.18	68.20	-14.02	16.82	3	Vertical	242	1.02	-	37.36	38.68	12.69	34.55
PK	15.62245G	62.58	74.00	-11.42	19.85	3	Vertical	189	1.95	-	42.73	38.59	15.74	34.48

Radiated Emissions above 1GHz_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)
AV	1.8167G	31.52	68.20	-36.68	-1.75	3	Horizontal	293	1.58	-	33.27	24.87	7.54	34.16
AV	2.72514G	34.51	54.00	-19.49	2.44	3	Horizontal	300	1.06	-	32.07	28.30	8.49	34.35
AV	4.92399G	34.52	54.00	-19.48	8.38	3	Horizontal	319	1.48	-	26.14	32.80	9.72	34.14
AV	4.94911G	36.45	54.00	-17.55	8.51	3	Horizontal	142	1.74	-	27.94	32.90	9.73	34.12
AV	4.96047G	36.21	54.00	-17.79	8.55	3	Horizontal	151	1.50	-	27.66	32.94	9.73	34.12
AV	5.45032G	38.59	54.00	-15.41	8.74	3	Horizontal	328	1.77	-	29.85	32.90	10.02	34.18
AV	7.38647G	43.25	54.00	-10.75	13.33	3	Horizontal	353	1.67	-	29.92	36.48	11.34	34.49
AV	7.42219G	37.57	54.00	-16.43	13.14	3	Horizontal	40	1.95	-	24.43	36.31	11.32	34.49
AV	7.44129G	38.86	54.00	-15.14	13.04	3	Horizontal	35	1.50	-	25.82	36.23	11.30	34.49
AV	10.42264G	40.95	68.20	-27.25	16.82	3	Horizontal	190	1.91	-	24.13	38.68	12.69	34.55
AV	15.63169G	49.01	54.00	-4.99	19.81	3	Horizontal	46	1.50	-	29.20	38.54	15.75	34.48
PK	1.81678G	39.08	68.20	-29.12	-1.75	3	Horizontal	293	1.58	-	40.83	24.87	7.54	34.16
PK	2.725G	42.94	74.00	-31.06	2.44	3	Horizontal	300	1.06	-	40.50	28.30	8.49	34.35
PK	4.92366G	49.20	74.00	-24.80	8.37	3	Horizontal	319	1.48	-	40.83	32.79	9.72	34.14
PK	4.94983G	50.26	74.00	-23.74	8.51	3	Horizontal	142	1.74	-	41.75	32.90	9.73	34.12
PK	4.95968G	48.68	74.00	-25.32	8.55	3	Horizontal	151	1.50	-	40.13	32.94	9.73	34.12
PK	5.45121G	51.49	74.00	-22.51	8.74	3	Horizontal	328	1.77	-	42.75	32.90	10.02	34.18
PK	7.39152G	60.30	74.00	-13.70	13.30	3	Horizontal	353	1.67	-	47.00	36.45	11.34	34.49
PK	7.42868G	51.21	74.00	-22.79	13.11	3	Horizontal	40	1.95	-	38.10	36.29	11.31	34.49
PK	7.44145G	51.34	74.00	-22.66	13.04	3	Horizontal	35	1.50	-	38.30	36.23	11.30	34.49
PK	10.4251G	54.04	68.20	-14.16	16.83	3	Horizontal	190	1.91	-	37.21	38.67	12.70	34.54
PK	15.63348G	62.31	74.00	-11.69	19.80	3	Horizontal	46	1.50	-	42.51	38.53	15.75	34.48