

FCC Radio Test Report

FCC ID : S7Q-S04
Equipment : 802.11 ah Module
Brand Name : Techman or 
Model Name : WFAHLEXNI04
Applicant : Quanta Storage Inc.
6F., No. 58-2, Huaya 2nd Rd., Guishan Dist.,
Taoyuan City, Taiwan
Manufacturer : TECHMAN ELECTRONICS (THAILAND) CO.,LTD
236 – 237 Moo.2, Tambon Nongchark, Banbung,
Chonburi 20170 Thailand
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 19, 2025, and testing was started from Feb. 21, 2025 and completed on Mar. 12, 2025. 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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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	FCC 15.203
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	≥500kHz
3.3	15.247(b)	Maximum Conducted Output Power	PASS	Power [dBm]:30
3.4	15.247(e)	Power Spectral Density	PASS	PSD [dBm/3kHz]:8
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	Non-Restricted Bands: > 20 dBc
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: FCC 15.209

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

Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	BWch (MHz)	Channel Number
902-928	OFDM	903.5-926.5	1	3-49 [24]
902-928	OFDM	905-925	2	6-46 [11]
902-928	OFDM	906-922	4	8-40 [5]
902-928	OFDM	908-916	8	12-28 [2]

Band	Mode	BWch (MHz)	Nant
902-928MHz	Halow	1	1TX
902-928MHz	Halow	2	1TX
902-928MHz	Halow	4	1TX
902-928MHz	Halow	8	1TX

Bandwidth							
1 MHz							
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
3	903.5	15	909.5	27	915.5	39	921.5
5	904.5	17	910.5	29	916.5	41	922.5
7	905.5	19	911.5	31	917.5	43	923.5
9	906.5	21	912.5	33	918.5	45	924.5
11	907.5	23	913.5	35	919.5	47	925.5
13	908.5	25	914.5	37	920.5	49	926.5

Bandwidth							
2 MHz				4 MHz		8 MHz	
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
6	905	30	917	8	906	12	908
10	907	34	919	16	910	28	916
14	909	38	921	24	914	-	-
18	911	42	923	32	918	-	-
22	913	46	925	40	922	-	-
26	915	-	-	-	-	-	-

**Note:**

- ♦ 902-928 MHz Band uses a combination of OFDM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Aristotle	RFA-S1-C57-U-B70-1	Dipole	I-Pex	0.8

Note 1: The EUT has one antenna.

Note 2: The antenna mentioned above will not be sold with the EUT in the market.

For SRD function:

For SRD mode (1TX/1RX)

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Test Fixture		
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) 1/T
Halow_1MHz	0.963	0.16	20.887m	50
Halow_2MHz	0.931	0.31	12.694m	100
Halow_4MHz	0.872	0.59	6.25m	200
Halow_8MHz	0.77	1.14	3.05m	500

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
- ♦ ANSI C63.10-2013

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

- ♦ KDB 558074 D01 v05r02

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	Simon Cheng	22.1~23.6°C / 53~58%	12/Mar/2025
RF Conducted	TH07-HY	Yulin Chen	22.5~23.2°C / 50~54%	03/Mar/2025~06/Mar/2025
Radiated	03CH03-HY	Simon Cheng	22.2~23.4°C / 50~52%	21/Feb/2025~23/Feb/2025
☐ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	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 Condition

RF Conducted	Abbreviation	Remark
TX-DTS	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software Version	Tera Term Version 4.76
-----------------------	------------------------

Mode	Power Setting
Halow_1MHz	-
903.5MHz	3
914.5MHz	3
926.5MHz	3
Halow_2MHz	-
905MHz	3
915MHz	3
925MHz	3
Halow_4MHz	-
906MHz	1
914MHz	3
922MHz	3
Halow_8MHz	-
908MHz	-1
916MHz	3

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	Test Fixture Mode

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

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



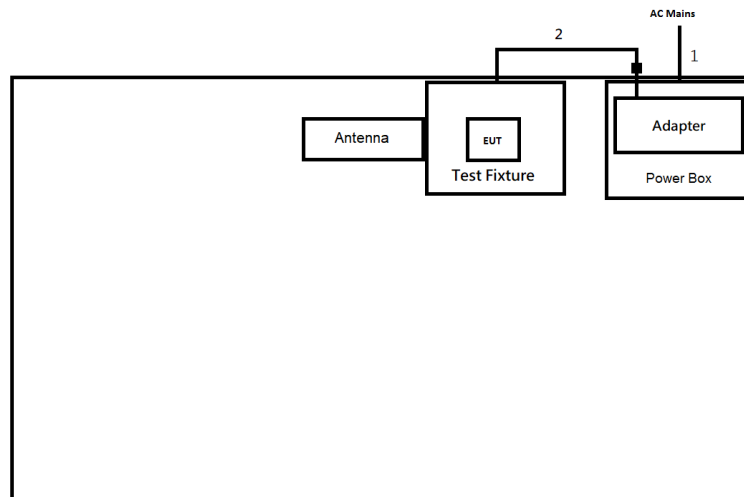
2.4 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	Ktec	KSA-24W-120150D5	-	Provided by Customer
2	Test Fixture	Techman Robot	DWF70FB1M1	-	Provided by Customer
3	Antenna	Aristotle	RFA-S1-C57-U-B70-1	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Adapter	Ktec	KSA-24W-120150D5	-	Provided by Customer
4	Test Fixture	Techman Robot	DWF70FB1M1	-	Provided by Customer
5	USB Cable	Sporton	Sporton	-	-

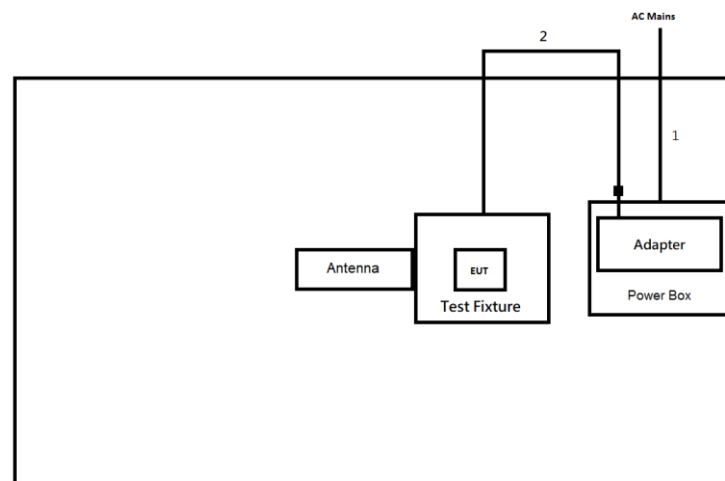
2.5 Test Setup Diagram

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	1.8	-

Test Setup Diagram - Radiated Test



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

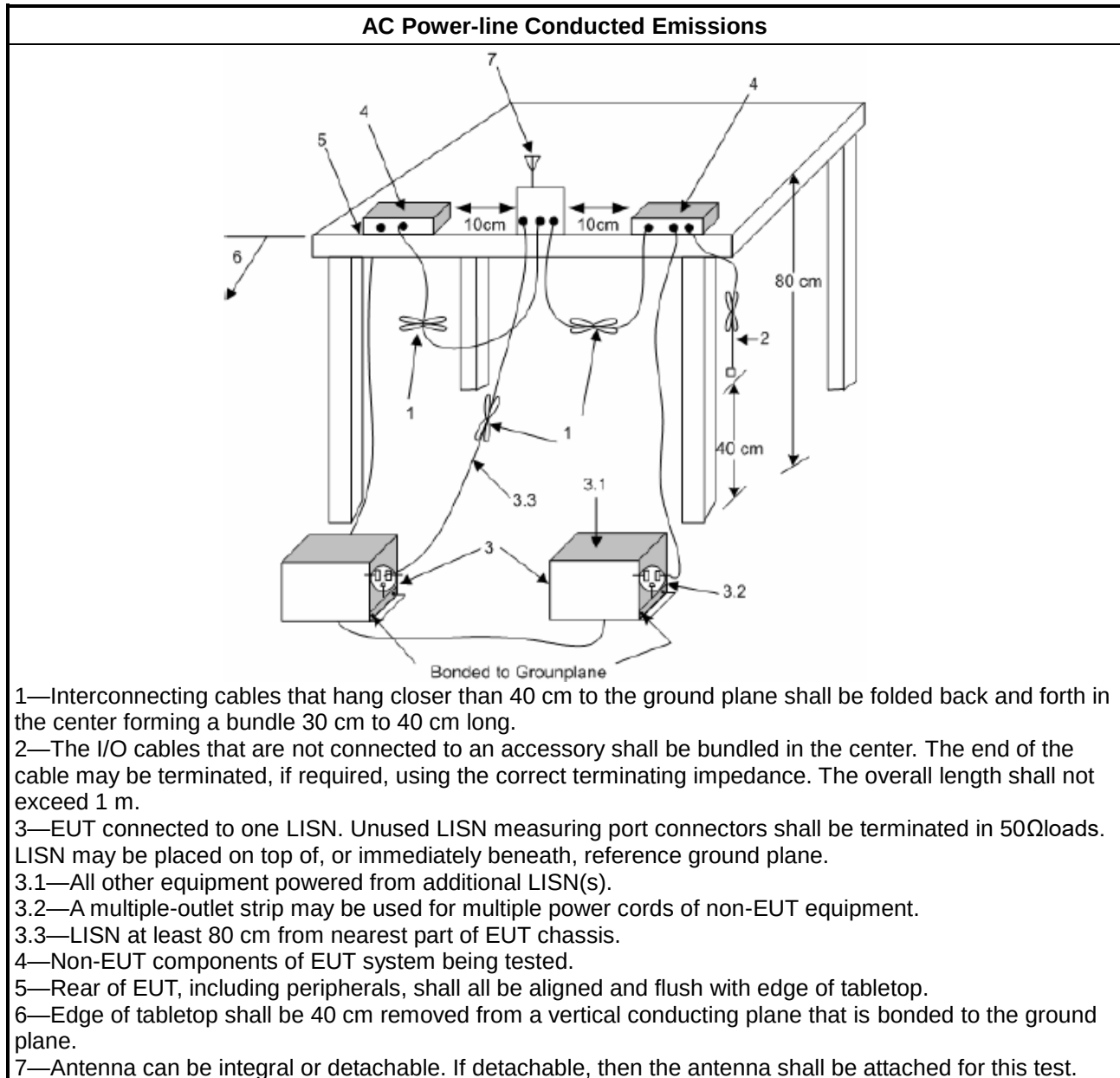
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

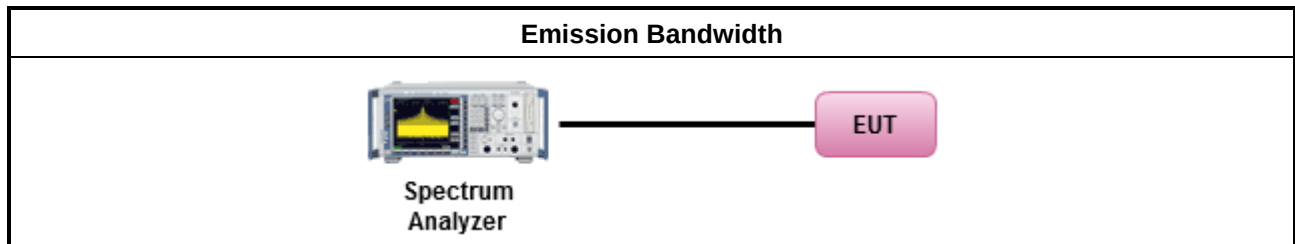
3.2.2 Measuring Instruments

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

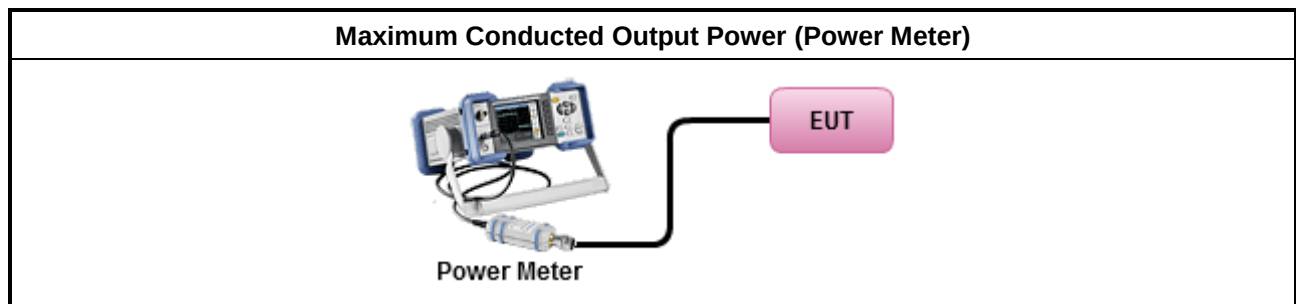
3.3.2 Measuring Instruments

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

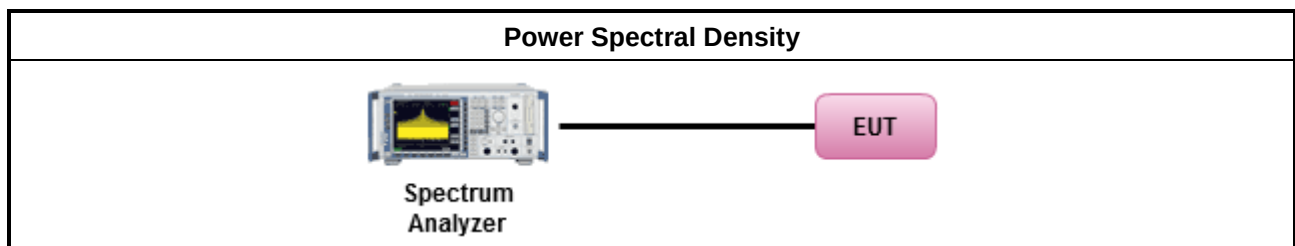
3.4.2 Measuring Instruments

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) Max. PSD.
▪	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.	

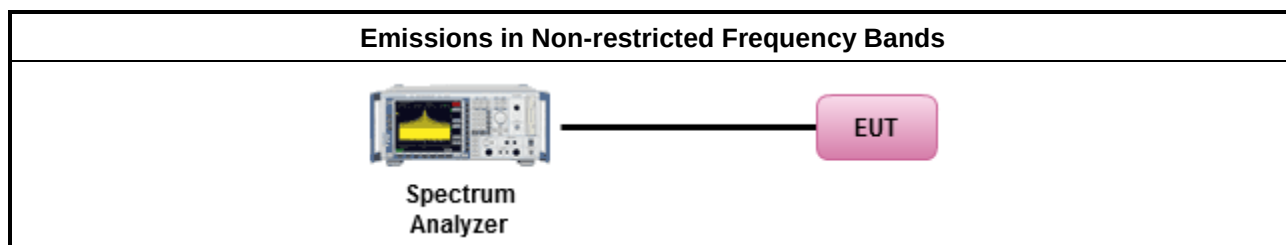
3.5.2 Measuring Instruments

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

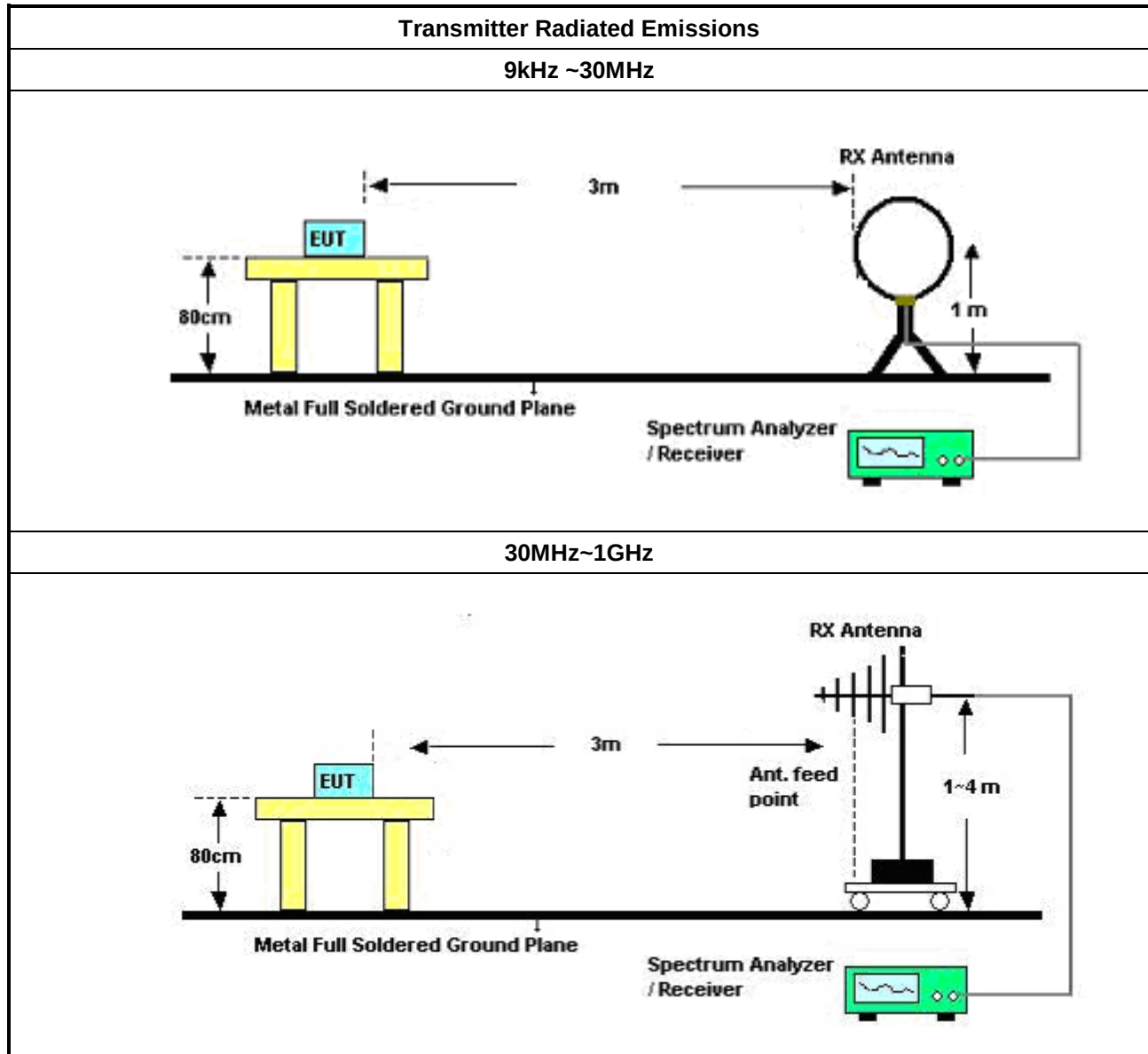
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted 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).

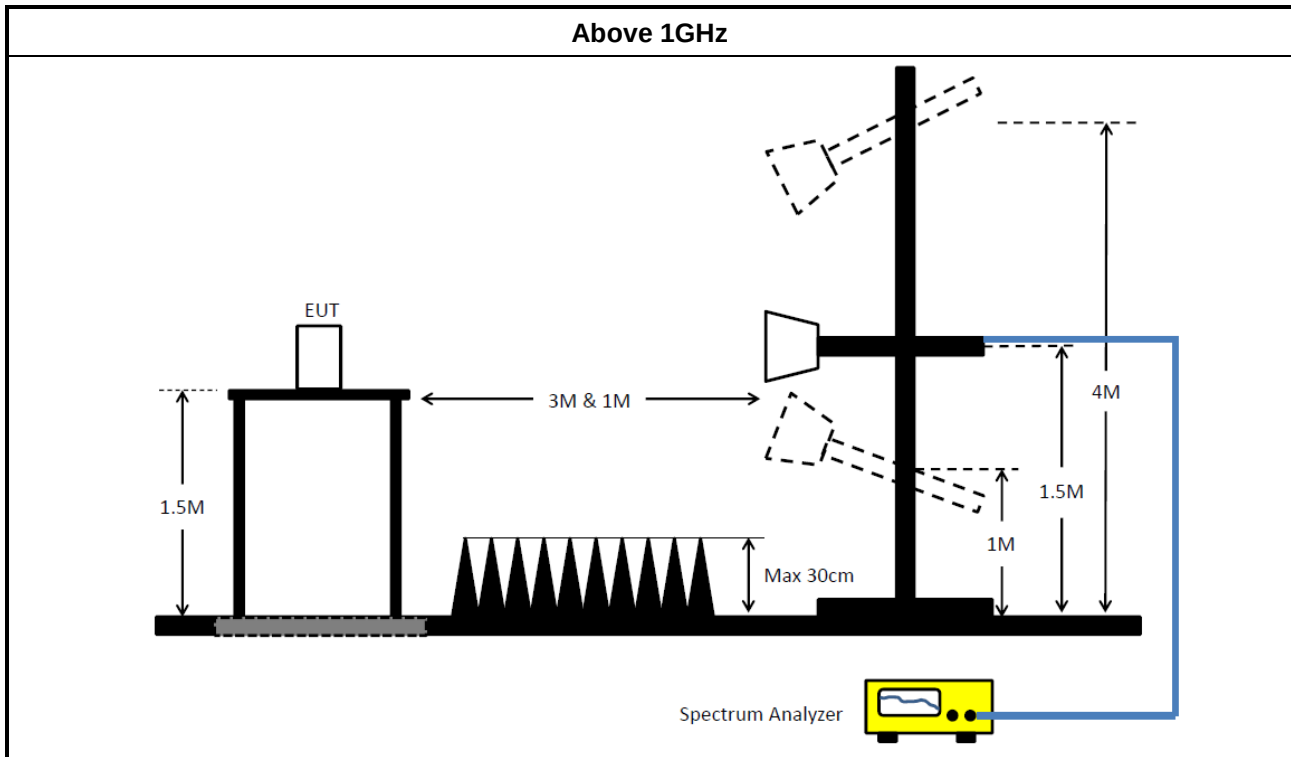
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





3.6.6 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.

3.6.7 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer / Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	100003	9kHz ~ 30MHz	06/Sep/2024	05/Sep/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
SENSE-EMI	Sporton	V5.11.3	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer / Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	14/Jul/2024	13/Jul/2025
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	14/Jul/2024	13/Jul/2025
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	03/May/2024	02/May/2025
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	01/Nov/2024	31/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMC1	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	14/Oct/2024	13/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	18/Oct/2024	17/Oct/2025
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	12/Jun/2024	11/Jun/2025
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	12/Jun/2024	11/Jun/2025
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable-03	1GHz~40GHz	19/Feb/2025	18/Feb/2026
Amplifier	Aglient	8447D	2944A08033	100kHz~1.3GHz	13/Sep/2024	12/Sep/2025
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	25/Jul/2024	24/Jul/2025
SENSE-15407_FS	Sporton	V5.11.18	NA	NA	NA	NA

**Instrument for Conducted Test**

Instrument	Manufacturer / Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV3044	101439	10Hz~44GHz	23/Dec/2024	22/Dec/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	18/Dec/2024	17/Dec/2025
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	18/Dec/2024	17/Dec/2025
SENSE-15247_ FS	Sporton	V5.11.23	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

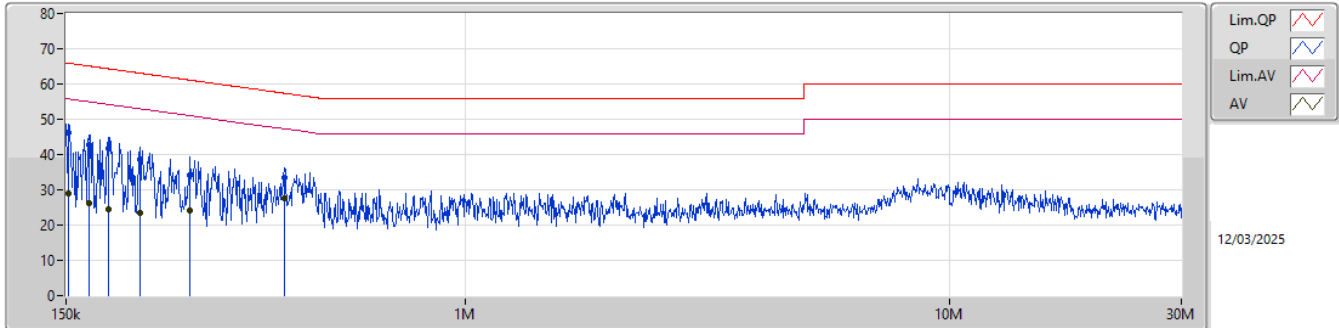
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	151.807k	46.33	65.90	-19.57	Line

Result

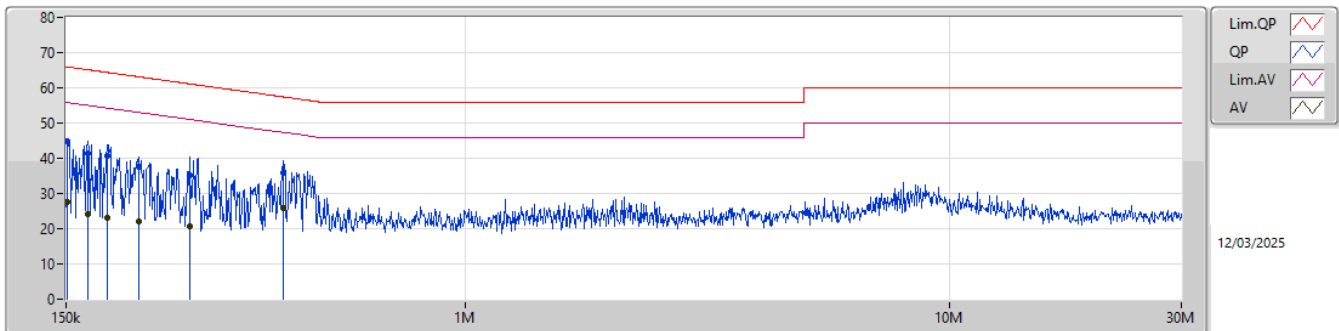
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	151.807k	46.33	65.90	-19.57	Line
Mode 1	Pass	AV	151.807k	28.90	55.90	-27.00	Line
Mode 1	Pass	QP	167.071k	42.80	65.10	-22.30	Line
Mode 1	Pass	AV	167.071k	26.14	55.10	-28.96	Line
Mode 1	Pass	QP	183.137k	41.89	64.34	-22.45	Line
Mode 1	Pass	AV	183.137k	24.59	54.34	-29.75	Line
Mode 1	Pass	QP	213.137k	38.58	63.07	-24.49	Line
Mode 1	Pass	AV	213.137k	23.50	53.07	-29.57	Line
Mode 1	Pass	QP	270.82k	34.31	61.09	-26.78	Line
Mode 1	Pass	AV	270.82k	24.24	51.09	-26.85	Line
Mode 1	Pass	QP	423.503k	33.56	57.38	-23.82	Line
Mode 1	Pass	AV	423.503k	27.45	47.38	-19.93	Line
Mode 1	Pass	QP	151.202k	44.85	65.92	-21.07	Neutral
Mode 1	Pass	AV	151.202k	27.44	55.92	-28.48	Neutral
Mode 1	Pass	QP	166.406k	41.45	65.14	-23.69	Neutral
Mode 1	Pass	AV	166.406k	24.23	55.14	-30.91	Neutral
Mode 1	Pass	QP	182.408k	40.76	64.37	-23.61	Neutral
Mode 1	Pass	AV	182.408k	23.24	54.37	-31.13	Neutral
Mode 1	Pass	QP	211.442k	37.59	63.15	-25.56	Neutral
Mode 1	Pass	AV	211.442k	22.23	53.15	-30.92	Neutral
Mode 1	Pass	QP	269.741k	35.31	61.12	-25.81	Neutral
Mode 1	Pass	AV	269.741k	20.80	51.12	-30.32	Neutral
Mode 1	Pass	QP	421.816k	35.87	57.41	-21.54	Neutral
Mode 1	Pass	AV	421.816k	25.88	47.41	-21.53	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	151.807k	46.33	65.90	-19.57	19.61	Line	-	26.72	9.63	0.01	9.97						
AV	151.807k	28.90	55.90	-27.00	19.61	Line	-	9.29	9.63	0.01	9.97						
QP	167.071k	42.80	65.10	-22.30	19.61	Line	-	23.19	9.63	0.01	9.97						
AV	167.071k	26.14	55.10	-28.96	19.61	Line	-	6.53	9.63	0.01	9.97						
QP	183.137k	41.89	64.34	-22.45	19.61	Line	-	22.28	9.63	0.01	9.97						
AV	183.137k	24.59	54.34	-29.75	19.61	Line	-	4.98	9.63	0.01	9.97						
QP	213.137k	38.58	63.07	-24.49	19.61	Line	-	18.97	9.63	0.01	9.97						
AV	213.137k	23.50	53.07	-29.57	19.61	Line	-	3.89	9.63	0.01	9.97						
QP	270.82k	34.31	61.09	-26.78	19.62	Line	-	14.69	9.63	0.02	9.97						
AV	270.82k	24.24	51.09	-26.85	19.62	Line	-	4.62	9.63	0.02	9.97						
QP	423.503k	33.56	57.38	-23.82	19.63	Line	-	13.93	9.62	0.03	9.98						
AV	423.503k	27.45	47.38	-19.93	19.63	Line	-	7.82	9.62	0.03	9.98						

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	151.202k	44.85	65.92	-21.07	19.61	Neutral	-	25.24	9.63	0.01	9.97						
AV	151.202k	27.44	55.92	-28.48	19.61	Neutral	-	7.83	9.63	0.01	9.97						
QP	166.406k	41.45	65.14	-23.69	19.61	Neutral	-	21.84	9.63	0.01	9.97						
AV	166.406k	24.23	55.14	-30.91	19.61	Neutral	-	4.62	9.63	0.01	9.97						
QP	182.408k	40.76	64.37	-23.61	19.61	Neutral	-	21.15	9.63	0.01	9.97						
AV	182.408k	23.24	54.37	-31.13	19.61	Neutral	-	3.63	9.63	0.01	9.97						
QP	211.442k	37.59	63.15	-25.56	19.61	Neutral	-	17.98	9.63	0.01	9.97						
AV	211.442k	22.23	53.15	-30.92	19.61	Neutral	-	2.62	9.63	0.01	9.97						
QP	269.741k	35.31	61.12	-25.81	19.62	Neutral	-	15.69	9.63	0.02	9.97						
AV	269.741k	20.80	51.12	-30.32	19.62	Neutral	-	1.18	9.63	0.02	9.97						
QP	421.816k	35.87	57.41	-21.54	19.64	Neutral	-	16.23	9.63	0.03	9.98						
AV	421.816k	25.88	47.41	-21.53	19.64	Neutral	-	6.24	9.63	0.03	9.98						

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
Halow_1MHz	821.25k	904.012k	904KD1D	802.5k	876.764k
Halow_2MHz	1.758M	1.872M	1M87D1D	1.68M	1.799M
Halow_4MHz	3.605M	3.775M	3M78D1D	3.5M	3.633M
Halow_8MHz	7.43M	7.662M	7M66D1D	7.37M	7.526M

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)
Halow_1MHz	-	-	-	-
903.5MHz	Pass	500k	821.25k	896.305k
914.5MHz	Pass	500k	813.75k	904.012k
926.5MHz	Pass	500k	802.5k	876.764k
Halow_2MHz	-	-	-	-
905MHz	Pass	500k	1.733M	1.872M
915MHz	Pass	500k	1.758M	1.799M
925MHz	Pass	500k	1.68M	1.829M
Halow_4MHz	-	-	-	-
906MHz	Pass	500k	3.605M	3.633M
914MHz	Pass	500k	3.5M	3.687M
922MHz	Pass	500k	3.53M	3.775M
Halow_8MHz	-	-	-	-
908MHz	Pass	500k	7.37M	7.526M
916MHz	Pass	500k	7.43M	7.662M

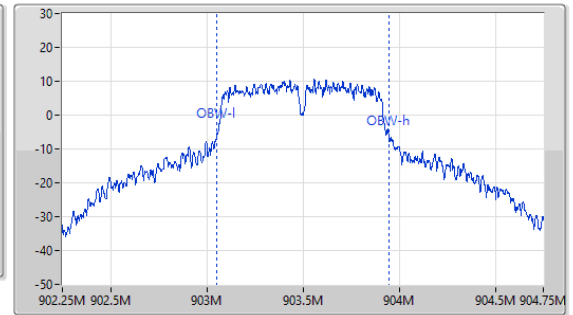
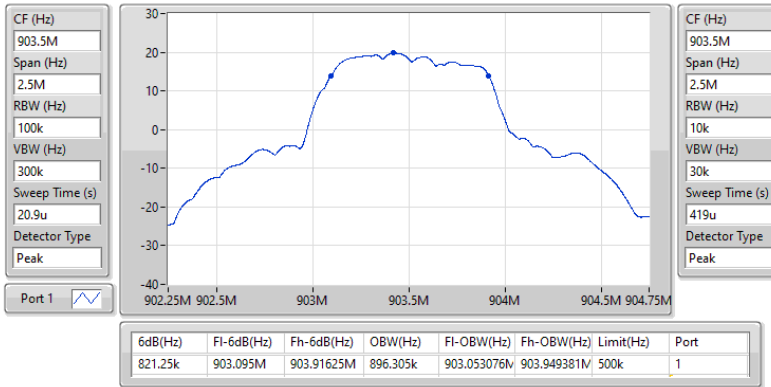
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

902-928MHz_Halow_1MHz

EBW-DTS

903.5MHz

06/03/2025

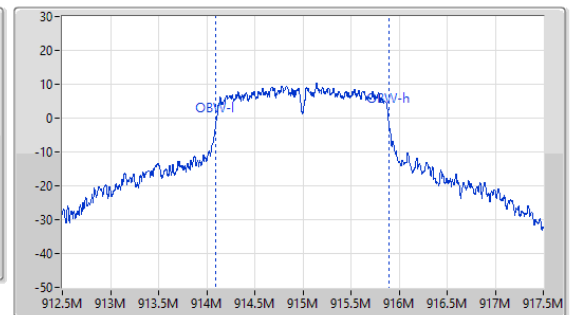
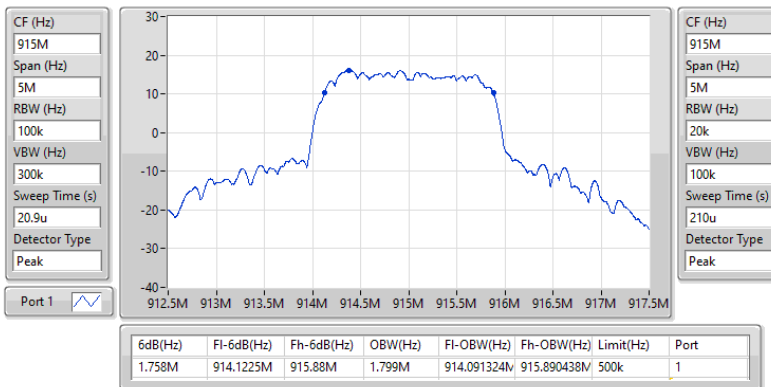


902-928MHz_Halow_2MHz

EBW-DTS

915MHz

06/03/2025

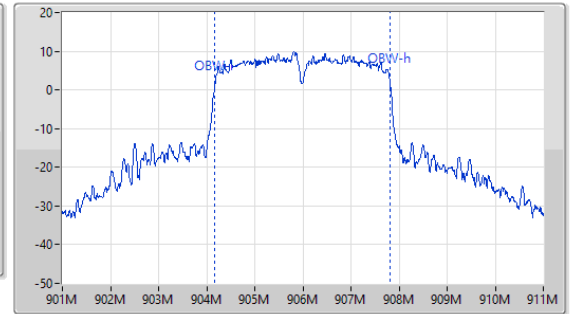
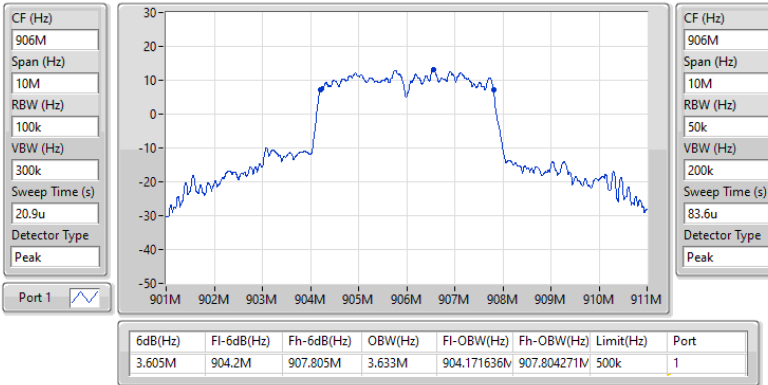


902-928MHz_Halow_4MHz

EBW-DTS

906MHz

06/03/2025

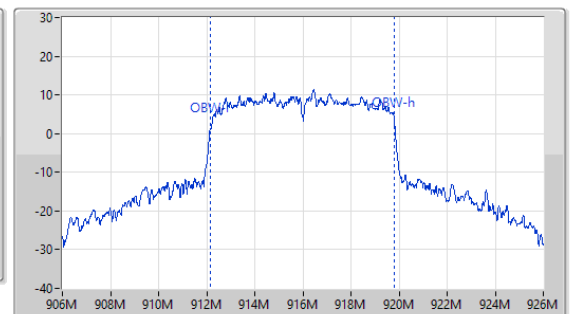
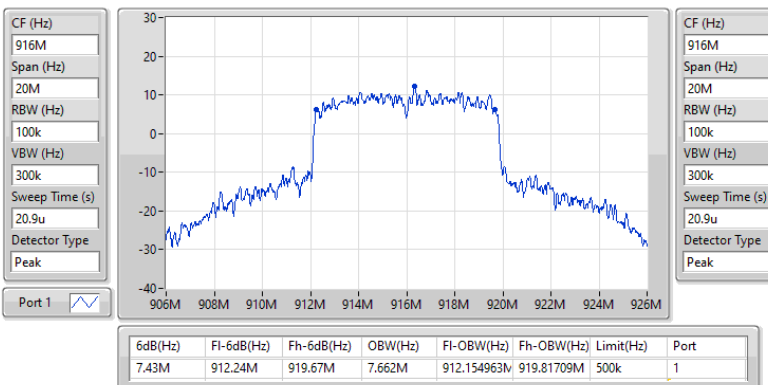


902-928MHz_Halow_8MHz

EBW-DTS

916MHz

06/03/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
902-928MHz	-	-
Halow_1MHz	21.41	0.13836
Halow_2MHz	21.37	0.13709
Halow_4MHz	21.37	0.13709
Halow_8MHz	21.21	0.13213

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
Halow_1MHz	-	-	-	-
903.5MHz	Pass	0.80	21.41	30.00
914.5MHz	Pass	0.80	21.32	30.00
926.5MHz	Pass	0.80	21.29	30.00
Halow_2MHz	-	-	-	-
905MHz	Pass	0.80	21.37	30.00
915MHz	Pass	0.80	21.24	30.00
925MHz	Pass	0.80	21.36	30.00
Halow_4MHz	-	-	-	-
906MHz	Pass	0.80	19.94	30.00
914MHz	Pass	0.80	21.21	30.00
922MHz	Pass	0.80	21.37	30.00
Halow_8MHz	-	-	-	-
908MHz	Pass	0.80	18.43	30.00
916MHz	Pass	0.80	21.21	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
902-928MHz	-
Halow_1MHz	6.67
Halow_2MHz	5.70
Halow_4MHz	2.44
Halow_8MHz	-0.03

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
Halow_1MHz	-	-	-	-
903.5MHz	Pass	0.80	6.66	8.00
914.5MHz	Pass	0.80	6.67	8.00
926.5MHz	Pass	0.80	1.37	8.00
Halow_2MHz	-	-	-	-
905MHz	Pass	0.80	5.70	8.00
915MHz	Pass	0.80	4.91	8.00
925MHz	Pass	0.80	3.33	8.00
Halow_4MHz	-	-	-	-
906MHz	Pass	0.80	-0.61	8.00
914MHz	Pass	0.80	1.80	8.00
922MHz	Pass	0.80	2.44	8.00
Halow_8MHz	-	-	-	-
908MHz	Pass	0.80	-4.08	8.00
916MHz	Pass	0.80	-0.03	8.00

DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

902-928MHz_Halow_1MHz

PSD

914.5MHz

06/03/2025

CF (Hz)
914.5M

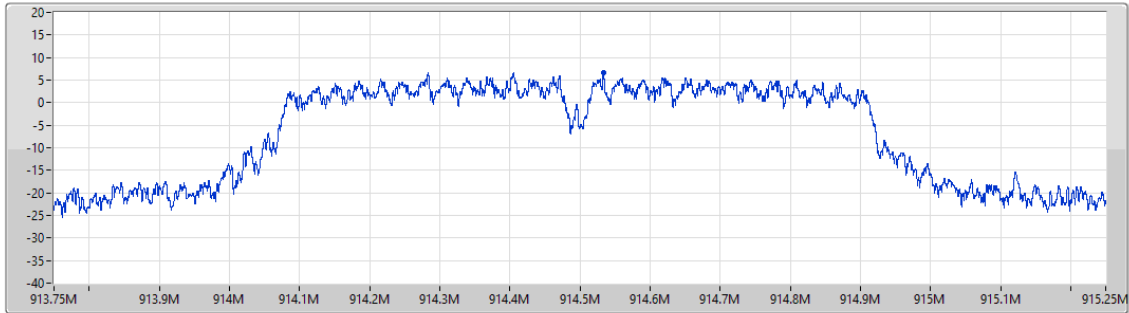
Span (Hz)
1.5M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
1.4m

Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.67	6.67	6.67

902-928MHz_Halow_2MHz

PSD

905MHz

06/03/2025

CF (Hz)
905M

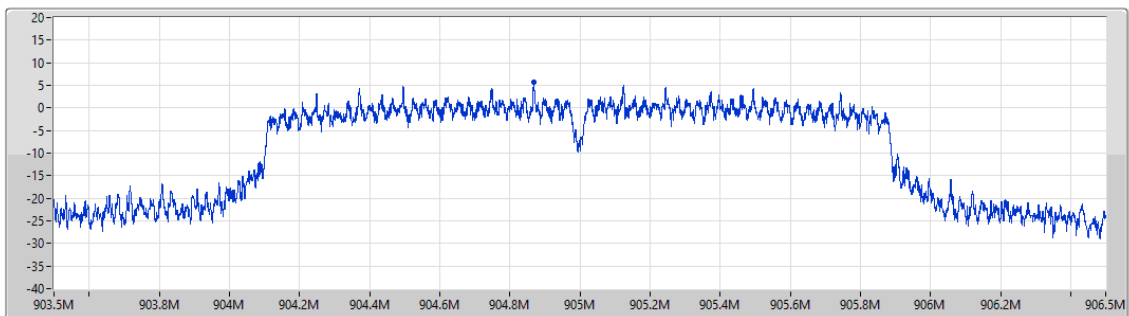
Span (Hz)
3M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
1.4m

Detector Type
Peak



Port 1

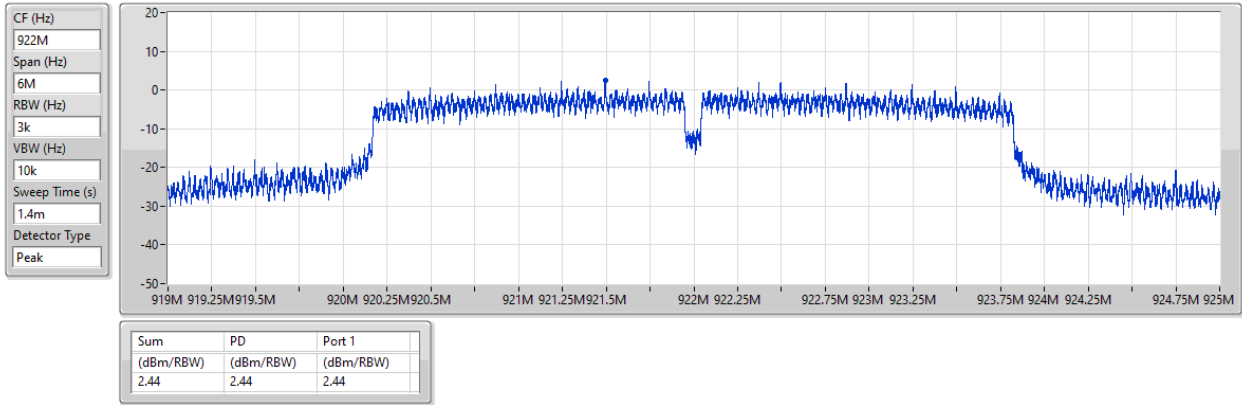
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.70	5.70	5.70

902-928MHz_Halow_4MHz

PSD

922MHz

06/03/2025

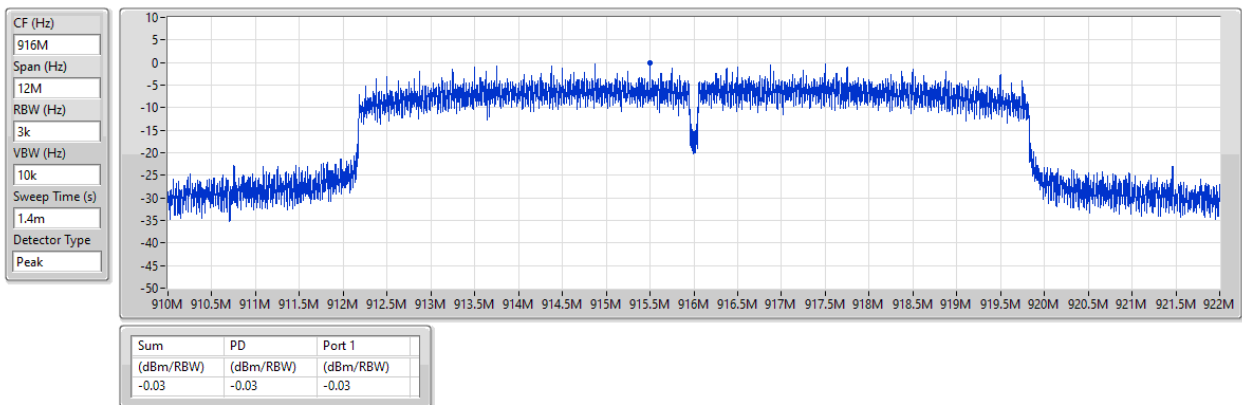


902-928MHz_Halow_8MHz

PSD

916MHz

06/03/2025



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
902-928MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Halow_1MHz	Pass	903.46M	21.38	-8.62	876.04M	-56.59	901.96M	-21.67	902M	-20.16	929.68M	-46.64	6.97776G	-47.76	1
Halow_2MHz	Pass	905.22M	18.24	-11.76	52.15M	-56.66	901.84M	-24.00	902M	-23.21	930.4M	-45.03	8.54829G	-47.69	1
Halow_4MHz	Pass	920.93M	15.26	-14.74	758.46M	-47.00	902M	-16.63	902M	-16.20	929.12M	-40.92	8.64899G	-36.75	1
Halow_8MHz	Pass	914.53M	12.44	-17.56	33.83M	-46.84	901.88M	-18.23	902M	-21.53	928.96M	-40.79	8.78477G	-37.31	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
Halow_1MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
903.5MHz	Pass	903.46M	21.38	-8.62	876.04M	-56.59	901.96M	-21.67	902M	-20.16	929.68M	-46.64	6.97776G	-47.76	1
914.5MHz	Pass	903.46M	21.38	-8.62	48.32M	-56.49	898.76M	-42.75	928M	-45.26	928.28M	-43.41	8.69878G	-47.02	1
926.5MHz	Pass	903.46M	21.38	-8.62	66.21M	-56.25	900.48M	-42.70	902M	-44.95	928.68M	-43.41	8.67162G	-47.24	1
Halow_2MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
905MHz	Pass	905.22M	18.24	-11.76	52.15M	-56.66	901.84M	-24.00	902M	-23.21	930.4M	-45.03	8.54829G	-47.69	1
915MHz	Pass	905.22M	18.24	-11.76	53M	-55.95	900.6M	-41.97	928M	-46.32	929.68M	-43.49	8.59241G	-47.20	1
925MHz	Pass	905.22M	18.24	-11.76	32.56M	-56.73	901.92M	-43.52	928M	-24.68	928M	-23.97	6.93137G	-46.81	1
Halow_4MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
906MHz	Pass	920.93M	15.26	-14.74	758.46M	-47.00	902M	-16.63	902M	-16.20	929.12M	-40.92	8.64899G	-36.75	1
914MHz	Pass	920.93M	15.26	-14.74	97.73M	-56.07	901.96M	-36.95	902M	-38.89	928.12M	-41.53	8.6207G	-46.94	1
922MHz	Pass	920.93M	15.26	-14.74	145.45M	-55.48	899.08M	-43.22	928M	-26.60	928.44M	-26.05	8.67501G	-47.48	1
Halow_8MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
908MHz	Pass	914.53M	12.44	-17.56	33.83M	-46.84	901.88M	-18.23	902M	-21.53	928.96M	-40.79	8.78477G	-37.31	1
916MHz	Pass	914.53M	12.44	-17.56	45.34M	-46.90	901.64M	-30.92	928M	-30.20	928.36M	-27.85	9.68092G	-37.65	1

902-928MHz_Halow_1MHz

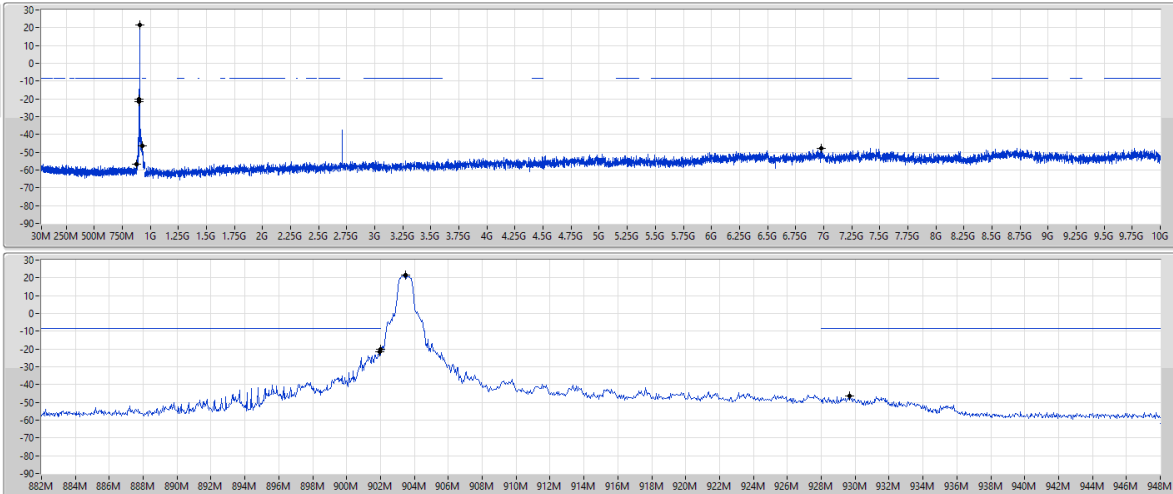
CSEndB-DTS

903.5MHz

06/03/2025

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

Port 1



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
903.46M	21.38	-8.62	876.04M	-56.59	901.96M	-21.67	902M	-20.16	929.68M	-46.64	6.97776G	-47.76	1

902-928MHz_Halow_2MHz

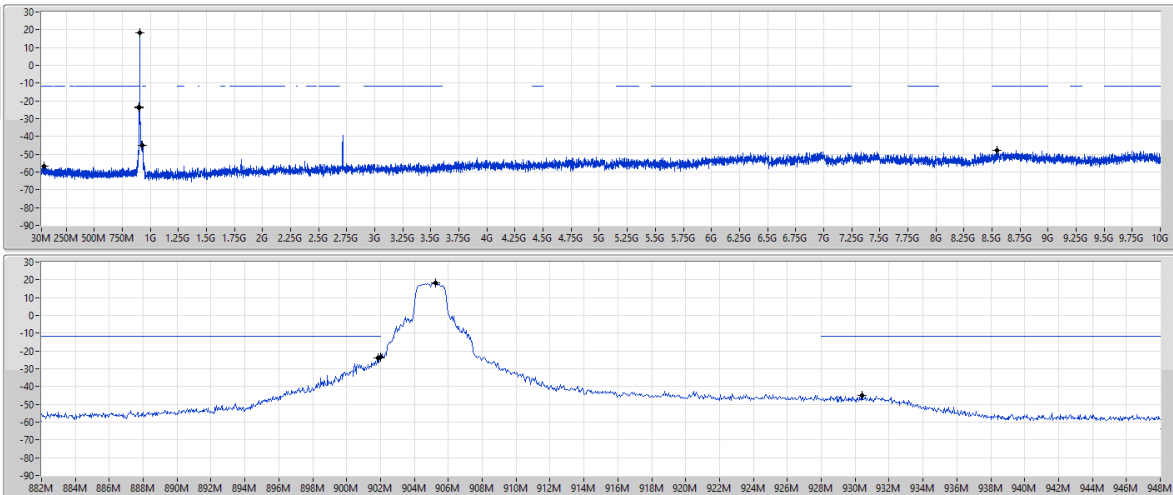
CSEndB-DTS

905MHz

06/03/2025

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

Port 1



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
905.22M	18.24	-11.76	52.15M	-56.66	901.84M	-24.00	902M	-23.21	930.4M	-45.03	8.54829G	-47.69	1

902-928MHz_Halow_4MHz

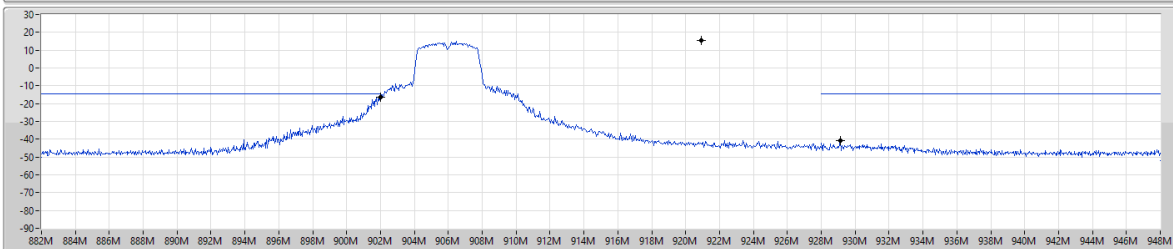
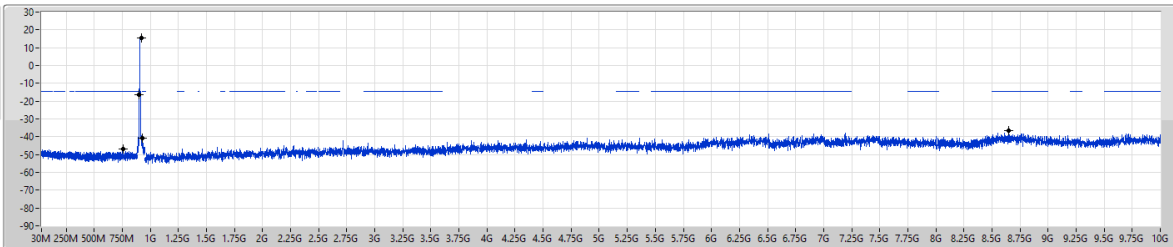
CSEndB-DTS

906MHz

06/03/2025

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

Port 1



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
920.93M	15.26	-14.74	758.46M	-47.00	902M	-16.63	902M	-16.20	929.12M	-40.92	8.64899G	-36.75	1

902-928MHz_Halow_8MHz

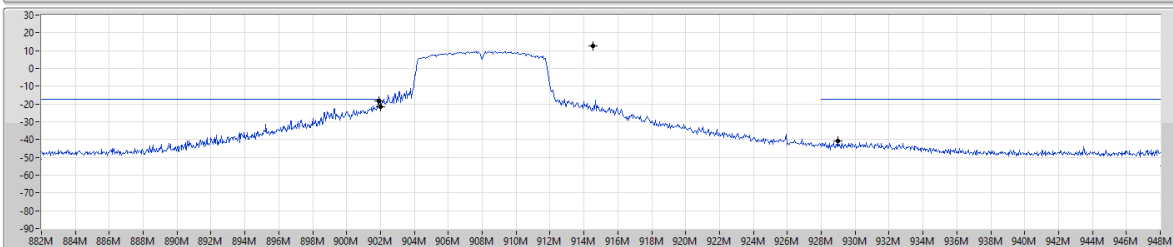
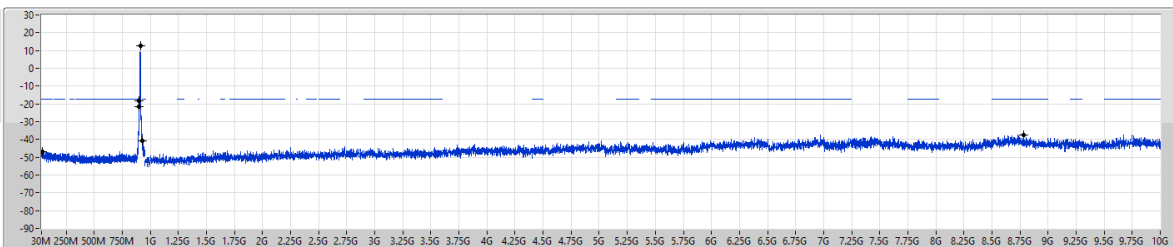
CSEndB-DTS

908MHz

06/03/2025

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

Port 1



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
914.53M	12.44	-17.56	33.83M	-46.84	901.88M	-18.23	902M	-21.53	928.96M	-40.79	8.78477G	-37.31	1



Summary

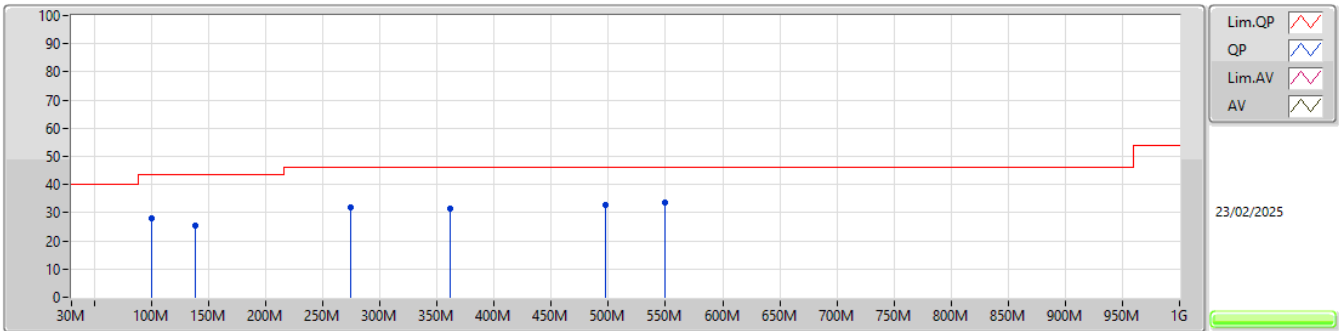
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
902-928MHz	-	-	-	-	-	-	-	-	-	-
Halow_8MHz	Pass	PK	449.04M	40.76	46.00	-5.24	3	Horizontal	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Halow_8MHz	-	-	-	-	-	-	-	-	-	-
916MHz_Test Fixture	Pass	PK	99.84M	28.13	43.50	-15.37	3	Vertical	360	1.00
916MHz_Test Fixture	Pass	PK	138.64M	25.64	43.50	-17.86	3	Vertical	360	1.00
916MHz_Test Fixture	Pass	PK	274.44M	31.70	46.00	-14.30	3	Vertical	360	1.00
916MHz_Test Fixture	Pass	PK	361.74M	31.42	46.00	-14.58	3	Vertical	360	1.00
916MHz_Test Fixture	Pass	PK	497.54M	32.60	46.00	-13.40	3	Vertical	360	1.00
916MHz_Test Fixture	Pass	PK	549.92M	33.75	46.00	-12.25	3	Vertical	360	1.00
916MHz_Test Fixture	Pass	PK	138.64M	32.18	43.50	-11.32	3	Horizontal	0	1.00
916MHz_Test Fixture	Pass	PK	198.78M	36.86	43.50	-6.64	3	Horizontal	0	1.00
916MHz_Test Fixture	Pass	PK	274.44M	39.03	46.00	-6.97	3	Horizontal	0	1.00
916MHz_Test Fixture	Pass	PK	361.74M	39.25	46.00	-6.75	3	Horizontal	0	1.00
916MHz_Test Fixture	Pass	PK	449.04M	40.76	46.00	-5.24	3	Horizontal	0	1.00
916MHz_Test Fixture	Pass	PK	557.68M	34.02	46.00	-11.98	3	Horizontal	0	1.00

902-928MHz_Halow_8MHz

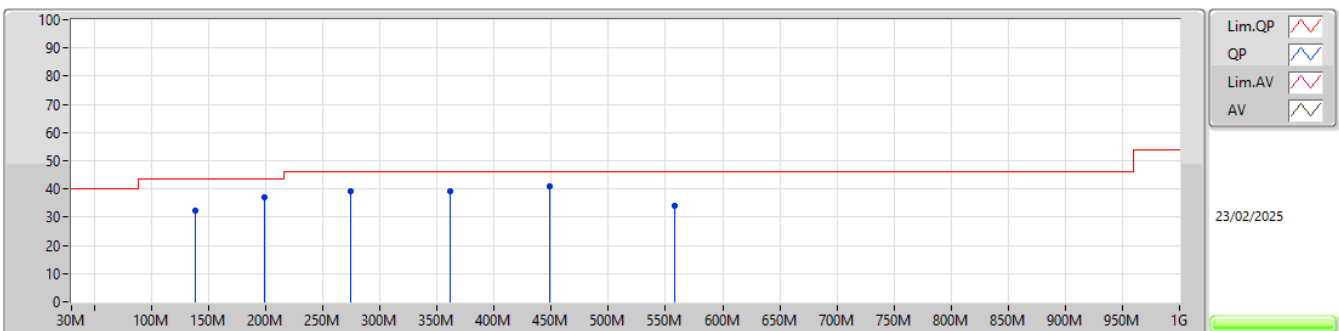
916MHz_Test Fixture



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	99.84M	28.13	43.50	-15.37	-9.00	3	Vertical	360	1.00	37.13	17.33	0.97	27.30
PK	138.64M	25.64	43.50	-17.86	-8.23	3	Vertical	360	1.00	33.87	17.48	1.48	27.19
PK	274.44M	31.70	46.00	-14.30	-5.60	3	Vertical	360	1.00	37.30	18.92	2.20	26.72
PK	361.74M	31.42	46.00	-14.58	-3.68	3	Vertical	360	1.00	35.10	20.93	2.55	27.16
PK	497.54M	32.60	46.00	-13.40	-1.33	3	Vertical	360	1.00	33.93	23.61	3.22	28.16
PK	549.92M	33.75	46.00	-12.25	0.47	3	Vertical	360	1.00	33.28	25.22	3.42	28.17

902-928MHz_Halow_8MHz

916MHz_Test Fixture



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	138.64M	32.18	43.50	-11.32	-8.23	3	Horizontal	0	1.00	40.41	17.48	1.48	27.19
PK	198.78M	36.86	43.50	-6.64	-9.57	3	Horizontal	0	1.00	46.43	15.36	2.02	26.95
PK	274.44M	39.03	46.00	-6.97	-5.60	3	Horizontal	0	1.00	44.63	18.92	2.20	26.72
PK	361.74M	39.25	46.00	-6.75	-3.68	3	Horizontal	0	1.00	42.93	20.93	2.55	27.16
PK	449.04M	40.76	46.00	-5.24	-2.01	3	Horizontal	0	1.00	42.77	22.93	2.90	27.84
PK	557.68M	34.02	46.00	-11.98	0.29	3	Horizontal	0	1.00	33.73	25.03	3.44	28.18

**Summary**

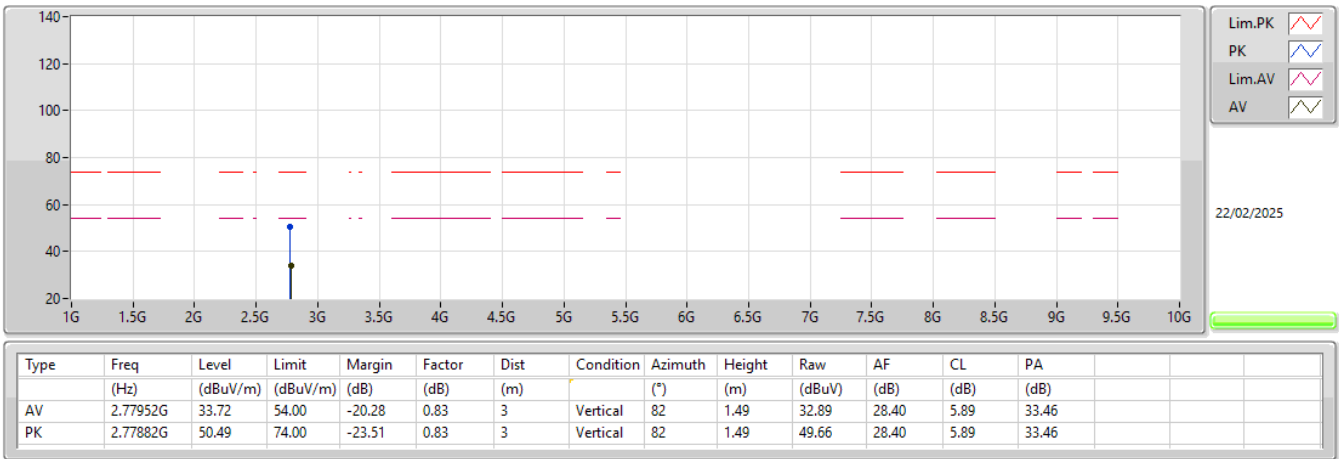
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
902-928MHz	-	-	-	-	-	-	-	-	-	-
Halow_1MHz	Pass	PK	2.78128G	57.65	74.00	-16.35	3	Horizontal	122	1.50
Halow_2MHz	Pass	AV	2.77502G	34.09	54.00	-19.91	3	Horizontal	39	1.50
Halow_4MHz	Pass	PK	2.71886G	52.34	74.00	-21.66	3	Horizontal	41	1.49
Halow_8MHz	Pass	AV	2.7482G	30.09	54.00	-23.91	3	Horizontal	44	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Halow_1MHz	-	-	-	-	-	-	-	-	-	-
903.5MHz	Pass	AV	2.71052G	32.30	54.00	-21.70	3	Vertical	76	1.54
903.5MHz	Pass	PK	2.71052G	45.44	74.00	-28.56	3	Vertical	76	1.54
903.5MHz	Pass	AV	2.71038G	34.21	54.00	-19.79	3	Horizontal	40	1.72
903.5MHz	Pass	PK	2.71142G	50.76	74.00	-23.24	3	Horizontal	40	1.72
914.5MHz	Pass	AV	2.74342G	33.15	54.00	-20.85	3	Vertical	80	1.49
914.5MHz	Pass	PK	2.7434G	48.04	74.00	-25.96	3	Vertical	80	1.49
914.5MHz	Pass	AV	2.74348G	34.59	54.00	-19.41	3	Horizontal	46	1.22
914.5MHz	Pass	PK	2.74426G	50.68	74.00	-23.32	3	Horizontal	46	1.22
926.5MHz	Pass	AV	2.77952G	33.72	54.00	-20.28	3	Vertical	82	1.49
926.5MHz	Pass	PK	2.77882G	50.49	74.00	-23.51	3	Vertical	82	1.49
926.5MHz	Pass	AV	2.77952G	35.41	54.00	-18.59	3	Horizontal	122	1.50
926.5MHz	Pass	PK	2.78128G	57.65	74.00	-16.35	3	Horizontal	122	1.50
Halow_2MHz	-	-	-	-	-	-	-	-	-	-
905MHz	Pass	AV	2.71502G	30.46	54.00	-23.54	3	Vertical	78	1.48
905MHz	Pass	PK	2.71566G	44.46	74.00	-29.54	3	Vertical	78	1.48
905MHz	Pass	AV	2.71492G	32.22	54.00	-21.78	3	Horizontal	41	1.60
905MHz	Pass	PK	2.71598G	45.57	74.00	-28.43	3	Horizontal	41	1.60
915MHz	Pass	AV	2.74488G	31.55	54.00	-22.45	3	Vertical	80	1.48
915MHz	Pass	PK	2.74586G	46.34	74.00	-27.66	3	Vertical	80	1.48
915MHz	Pass	AV	2.74498G	32.78	54.00	-21.22	3	Horizontal	45	1.49
915MHz	Pass	PK	2.74508G	46.75	74.00	-27.25	3	Horizontal	45	1.49
925MHz	Pass	AV	2.77494G	32.39	54.00	-21.61	3	Vertical	86	1.49
925MHz	Pass	PK	2.7757G	48.00	74.00	-26.00	3	Vertical	86	1.49
925MHz	Pass	AV	2.77502G	34.09	54.00	-19.91	3	Horizontal	39	1.50
925MHz	Pass	PK	2.77374G	51.39	74.00	-22.61	3	Horizontal	39	1.50
Halow_4MHz	-	-	-	-	-	-	-	-	-	-
906MHz	Pass	AV	2.71812G	29.29	54.00	-24.71	3	Vertical	78	1.52
906MHz	Pass	PK	2.72006G	42.88	74.00	-31.12	3	Vertical	78	1.52
906MHz	Pass	AV	2.71818G	30.68	54.00	-23.32	3	Horizontal	41	1.49
906MHz	Pass	PK	2.71886G	52.34	74.00	-21.66	3	Horizontal	41	1.49
914MHz	Pass	AV	2.74172G	29.50	54.00	-24.50	3	Vertical	82	1.48
914MHz	Pass	PK	2.74446G	43.22	74.00	-30.78	3	Vertical	82	1.48
914MHz	Pass	AV	2.74168G	30.54	54.00	-23.46	3	Horizontal	46	1.48
914MHz	Pass	PK	2.74328G	46.97	74.00	-27.03	3	Horizontal	46	1.48
922MHz	Pass	AV	2.76592G	30.60	54.00	-23.40	3	Vertical	85	1.48
922MHz	Pass	PK	2.7676G	44.68	74.00	-29.32	3	Vertical	85	1.48
922MHz	Pass	AV	2.76552G	31.45	54.00	-22.55	3	Horizontal	38	1.22
922MHz	Pass	PK	2.76558G	48.07	74.00	-25.93	3	Horizontal	38	1.22
Halow_8MHz	-	-	-	-	-	-	-	-	-	-
908MHz	Pass	AV	2.7244G	28.73	54.00	-25.27	3	Vertical	345	1.00
908MHz	Pass	PK	2.72214G	41.43	74.00	-32.57	3	Vertical	345	1.00
908MHz	Pass	AV	2.72396G	28.31	54.00	-25.69	3	Horizontal	253	1.54
908MHz	Pass	PK	2.72062G	40.88	74.00	-33.12	3	Horizontal	253	1.54
916MHz	Pass	AV	2.74742G	29.50	54.00	-24.50	3	Vertical	85	1.50
916MHz	Pass	PK	2.74936G	42.21	74.00	-31.79	3	Vertical	85	1.50
916MHz	Pass	AV	2.7482G	30.09	54.00	-23.91	3	Horizontal	44	1.00
916MHz	Pass	PK	2.74616G	43.09	74.00	-30.91	3	Horizontal	44	1.00

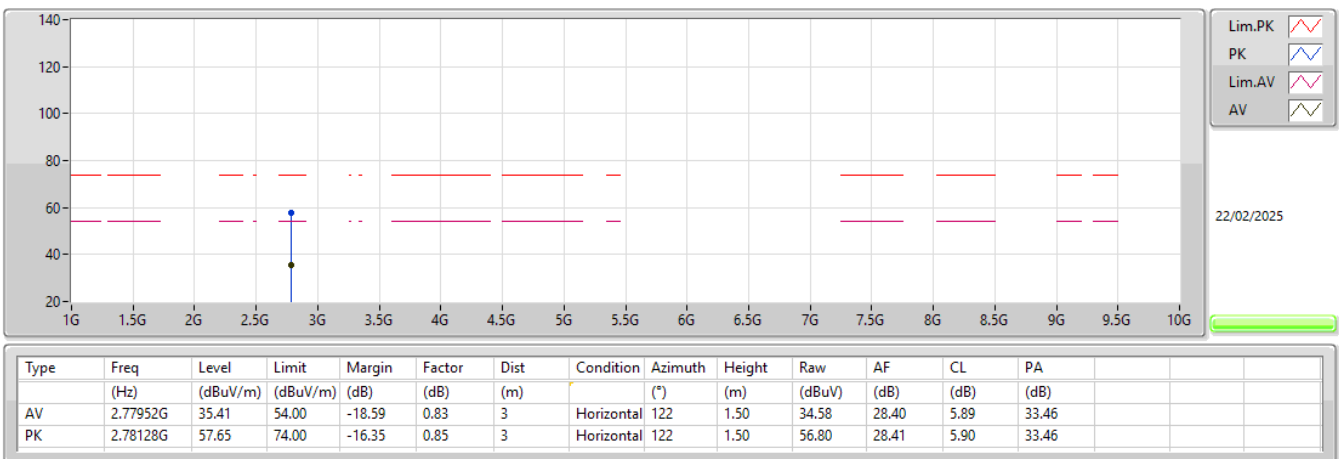
902-928MHz_Halow_1MHz

926.5MHz_TX



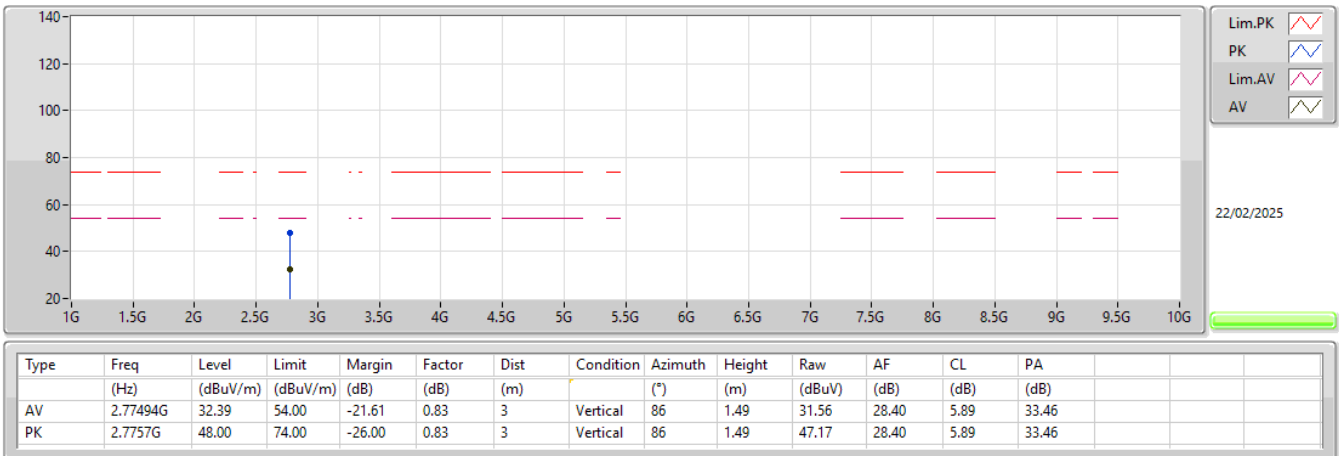
902-928MHz_Halow_1MHz

926.5MHz_TX



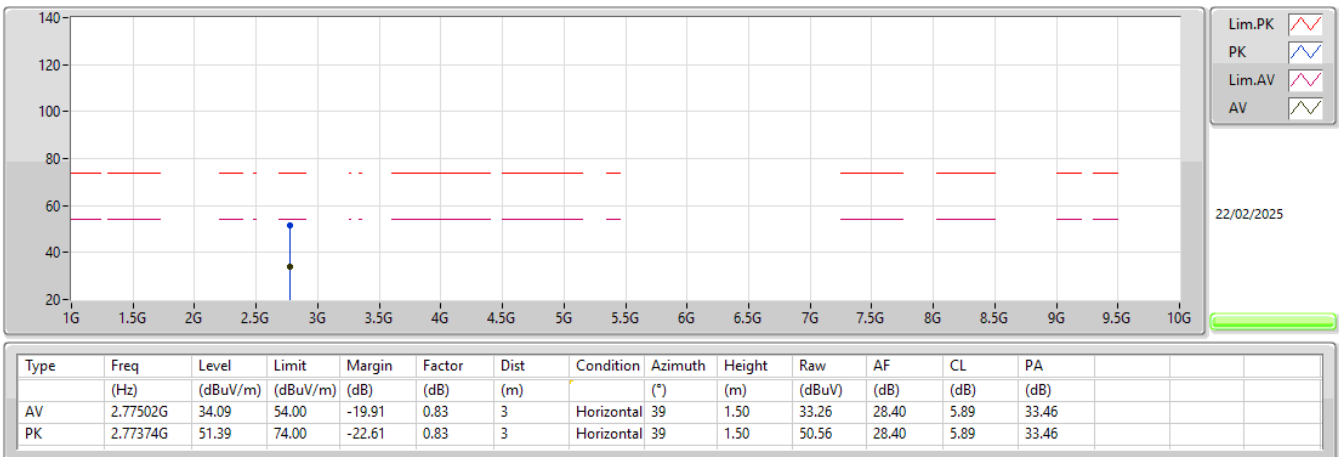
902-928MHz_Halow_2MHz

925MHz_TX



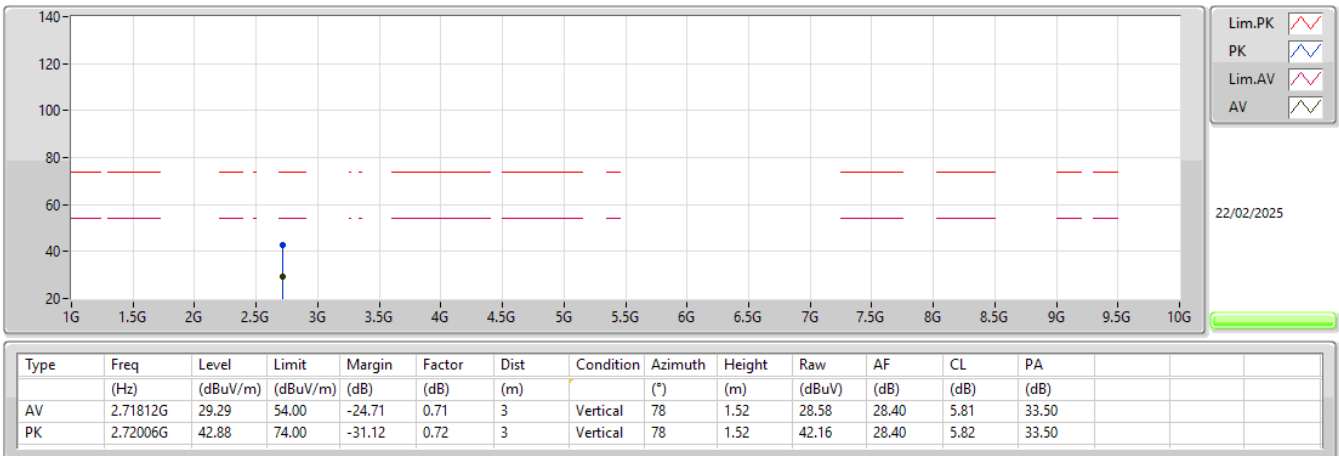
902-928MHz_Halow_2MHz

925MHz_TX



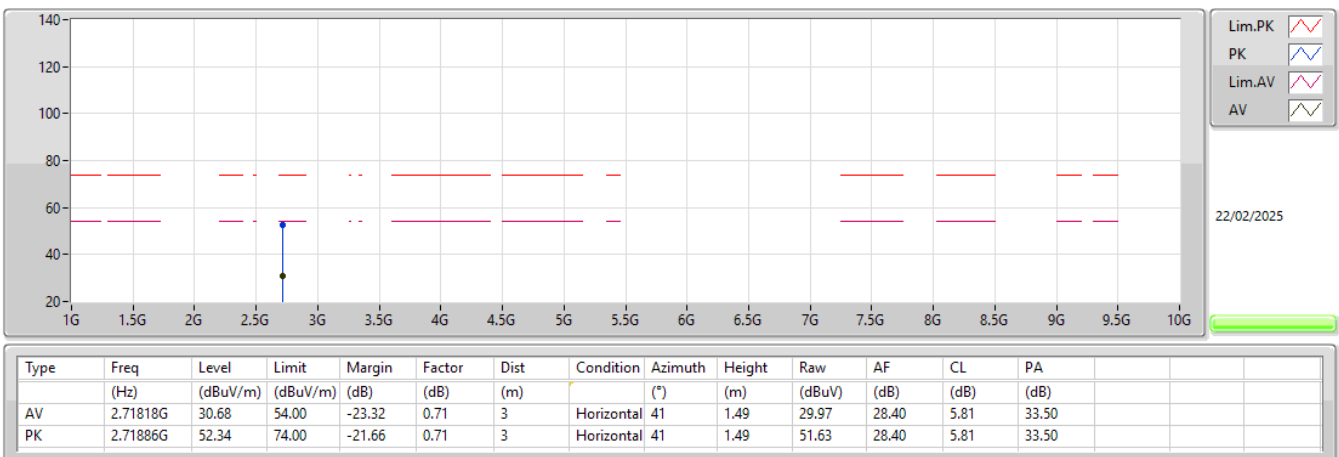
902-928MHz_Halow_4MHz

906MHz_TX



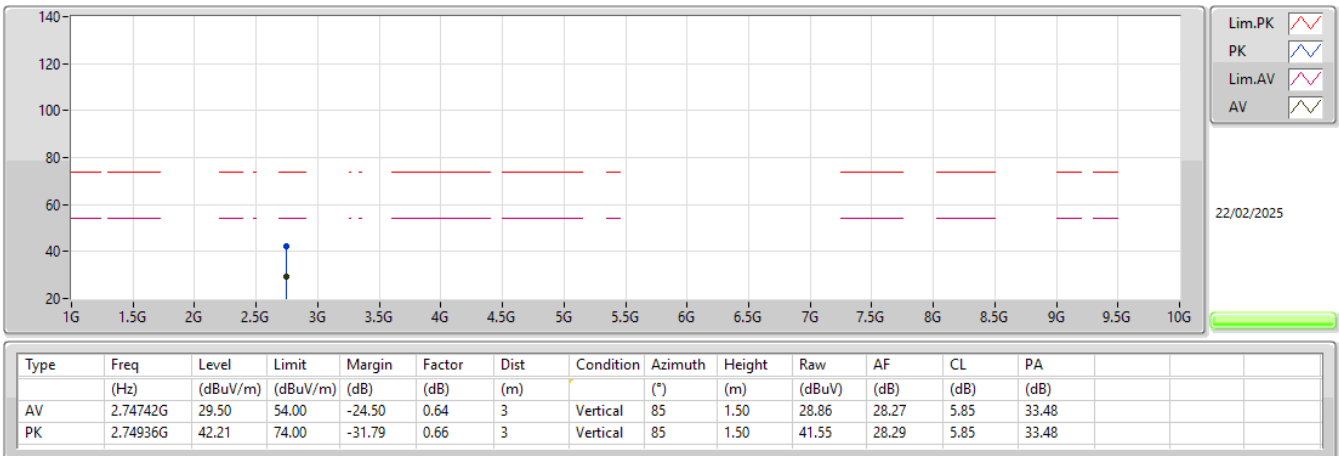
902-928MHz_Halow_4MHz

906MHz_TX



902-928MHz_Halow_8MHz

916MHz_TX



902-928MHz_Halow_8MHz

916MHz_TX

