

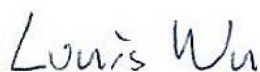


FCC RADIO TEST REPORT

FCC ID : 2AEUP-5DYFA2
Equipment : Video Doorbell
Brand Name : ring 
Model Name : 5DFYA2
Applicant : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Manufacturer : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Standard : FCC Part 15 Subpart C §15.249

The product was received on Jul. 11, 2025 and testing was performed from Jul. 22, 2025 to Aug. 15, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Test Mode.....	7
2.2 Connection Diagram of Test System.....	8
2.3 EUT Operation Test Setup	8
3 Test Result	9
3.1 99% Bandwidth Measurement.....	9
3.2 Field Strength of Fundamental/Harmonics and Radiated Spurious Emission Measurement	11
3.3 AC Conducted Emission Measurement.....	16
3.4 Antenna Requirements.....	18
4 List of Measuring Equipment.....	19
5 Measurement Uncertainty	21
Appendix A. AC Conducted Emission Test Result	
Appendix B. Radiated Spurious Emission	
Appendix C. Radiated Spurious Emission Plots	
Appendix D. Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FR550659-01E	01	Initial issue of report	Sep. 22, 2025
FR550659-01E	02	Revise appendix B This report is an updated version, replacing the report issued on Sep. 22, 2025.	Sep. 30, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	§15.215(c)	Emission Bandwidth	Pass	-
3.2	15.249(a) 15.249(d)	Field Strength of Fundamental and Radiated Spurious Emission	Pass	-
3.3	15.207	AC Conducted Emission	Pass	-
3.4	15.203	Antenna Requirements	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Clio Lo

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth-LE, LoRa, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac/ax, and 24GHz Radar.		
Antenna Type 24GHz Radar: Patch antenna		
Antenna information		
24.05 GHz ~ 24.25 GHz	Peak Gain (dBi)	2.00

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory		
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855		
Test Site No.	Sporton Site No.		
	CO07-HY	03CH11-HY	03CH18-HY
Test Engineer	Louis Chung	Fu Chen	Eric Jeng
Temperature (°C)	23.1~25.6	19.6~21.2	23.4~25.7
Relative Humidity (%)	42.3~48.7	51~63.6	58.4~65.1

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786



1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.249
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report..
- b. AC power line Conducted Emission was tested under maximum output power.

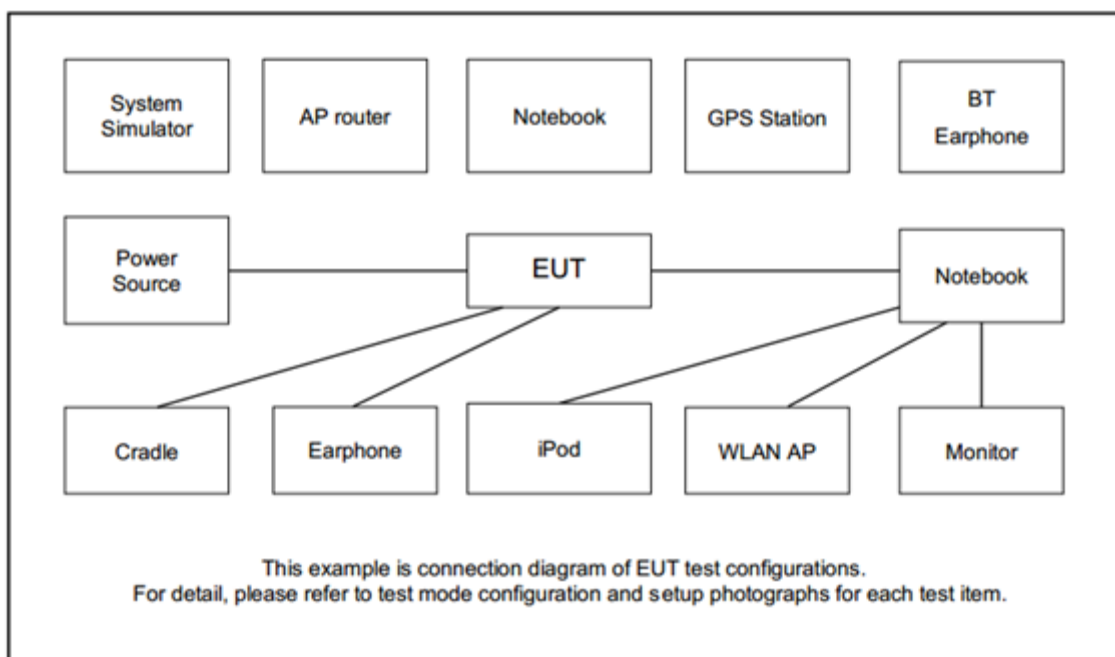
2.1 Carrier Frequency and Test Mode

Frequency Band	Frequency (MHz)	Modulation
24.05-24.25 GHz	24060	CW
24.05-24.25 GHz	24150	CW
24.05-24.25 GHz	24240	CW

Note: The 99%OBW is tested by using FMCW, and the rest of test cases use CW mode in accordance with FCC Part 15.31(c).

Test Cases	
AC Conducted Emission	Mode 1 : 24GHz Radar Tx + Power from plug in adapter

2.2 Connection Diagram of Test System



2.3 EUT Operation Test Setup

The RF test items, utility “Tera term” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



3 Test Result

3.1 99% Bandwidth Measurement

3.1.1 Limit of 99% Bandwidth

For reference only.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

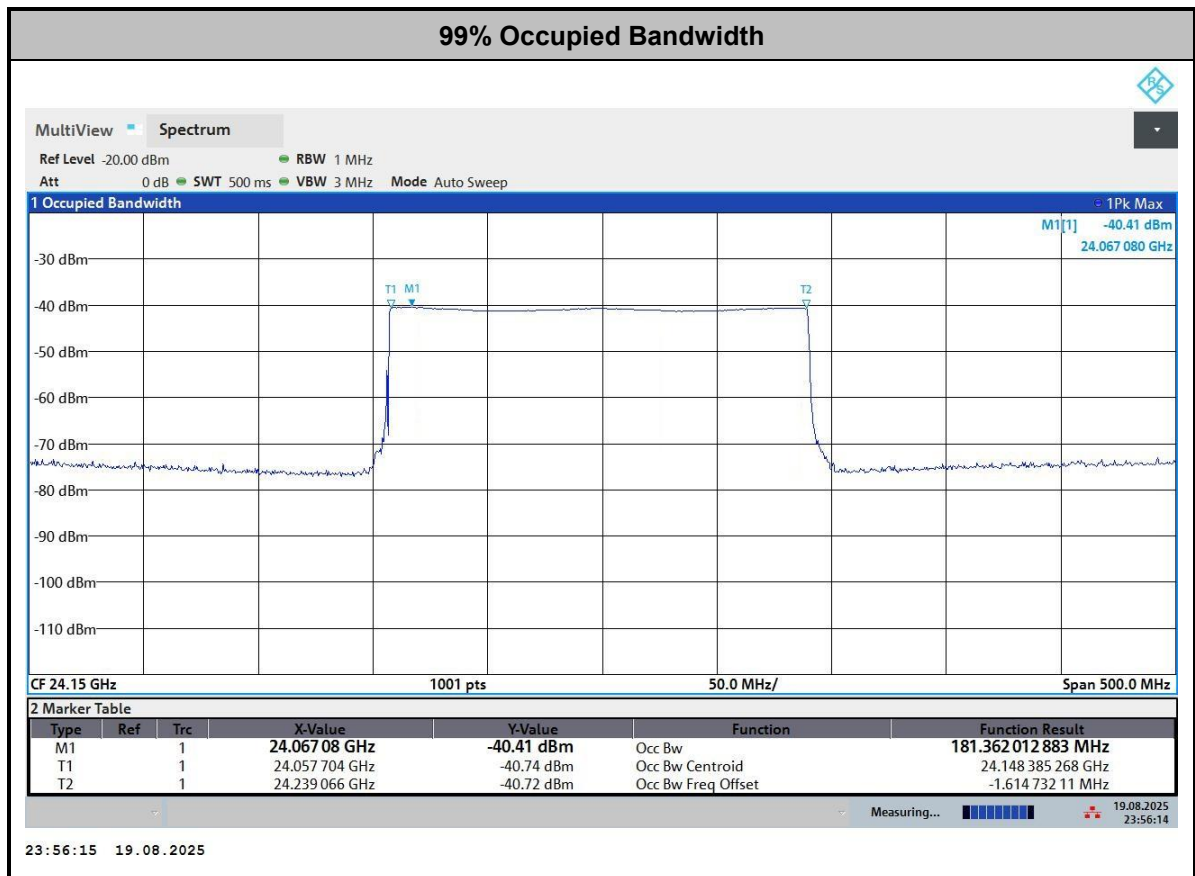
3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3.
2. Enable the EUT transmit continuously under FMCW mode.
3. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
4. Measure and record the results in the test report.

3.1.4 Test Result of Emission Bandwidth

99% Occupied Bandwidth (GHz)	Limit (GHz)
0.181	Report Only

3.1.5 Test Plots



3.2 Field Strength of Fundamental/Harmonics and Radiated Spurious Emission Measurement

3.2.1 Limit

The field strength measured at 3 meters shall not exceed the limits in the following table:

Rules and specifications	FCC CFR 47 Part 15 section 15.249	
Description	Field strength of fundamental	
24.0~24.25 (GHz)	Fundamental emissions (millivolts/meter) at 3m	Fundamental emissions (dBμV/m) at 3m
Average limits	250	107.95
Peak limits	-	127.95
Description	Field strength of harmonics	
24.0~24.25 (GHz)	Fundamental emissions (microvolts/meter) at 3m	Harmonic emissions (dBμV/m) at 3m
Average limits	2500	67.95
Peak limits	-	87.95
Note: Above 18GHz, the distance correction factor is used, 18GHz to 90GHz : $20\log(1\text{m}/3\text{m}) = -9.54\text{dB}$; 90GHz – 100GHz: $20\log(0.5\text{m}/3\text{m}) = -15.56\text{dB}$.		

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	$2400/F(\text{kHz})$	300
0.490 – 1.705	$24000/F(\text{kHz})$	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

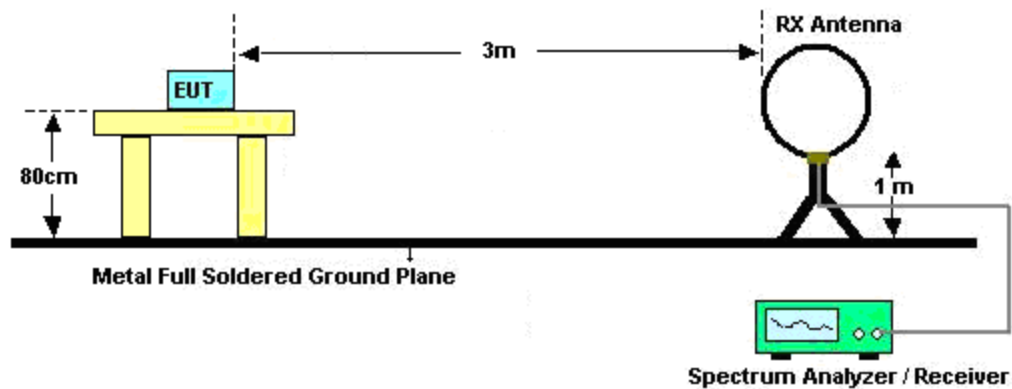
See list of measuring equipment of this test report.

3.2.3 Test Procedures

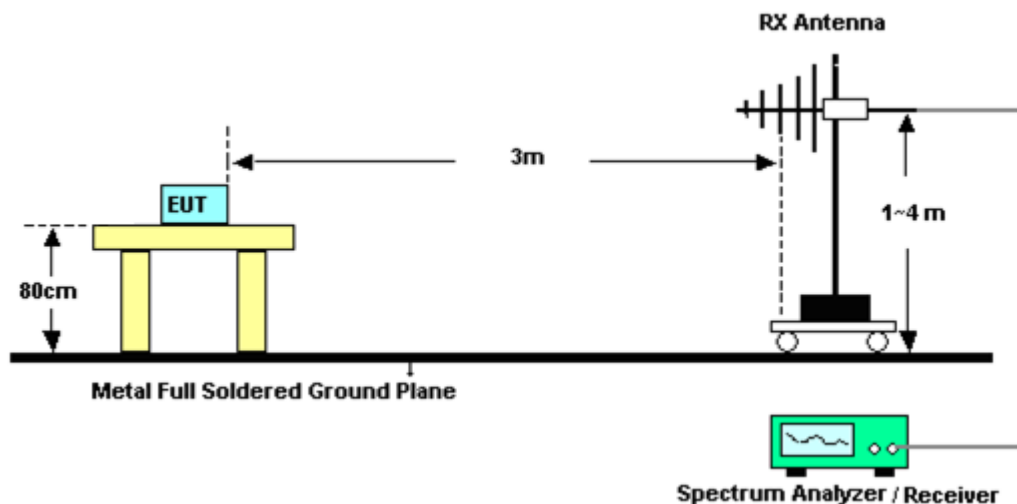
For emissions 9KHz to 40GHz, ANSI C63.10 Section 6.3 Radiated emissions testing follows, and for emissions 40GHz to 100GHz, ANSI C63.10 Section 9.8 and 9.9 radiated measurements follows. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and with 1.5 meter height for frequency above 1GHz, and was arranged test distance as shown in Section 3.4 Test Setup, respectively. For emissions, test results are attenuated more than 20 dB below the permissible value need not be reported in accordance with FCC Part 15.31(O).

3.2.4 Test Setup

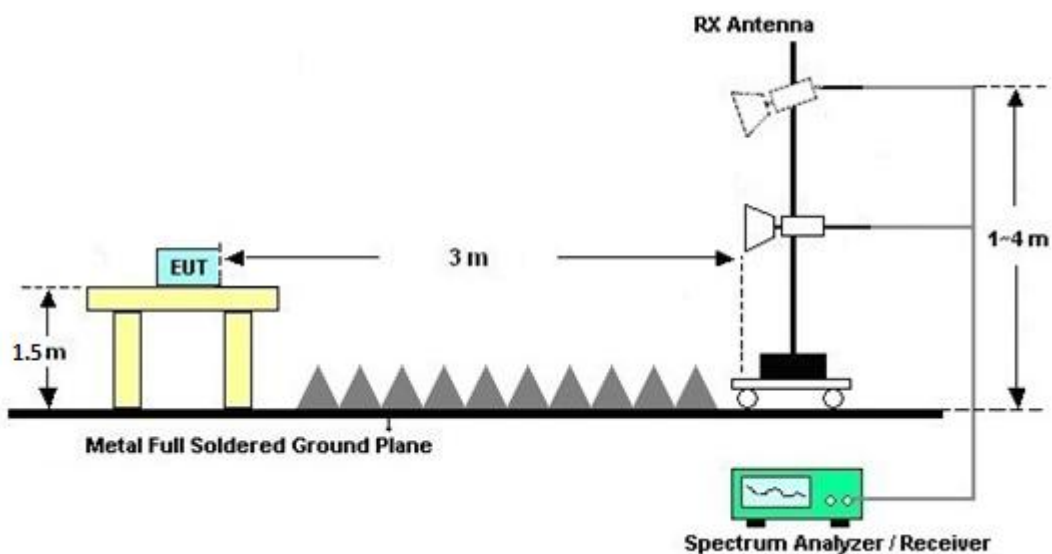
<For radiated emissions below 30MHz>



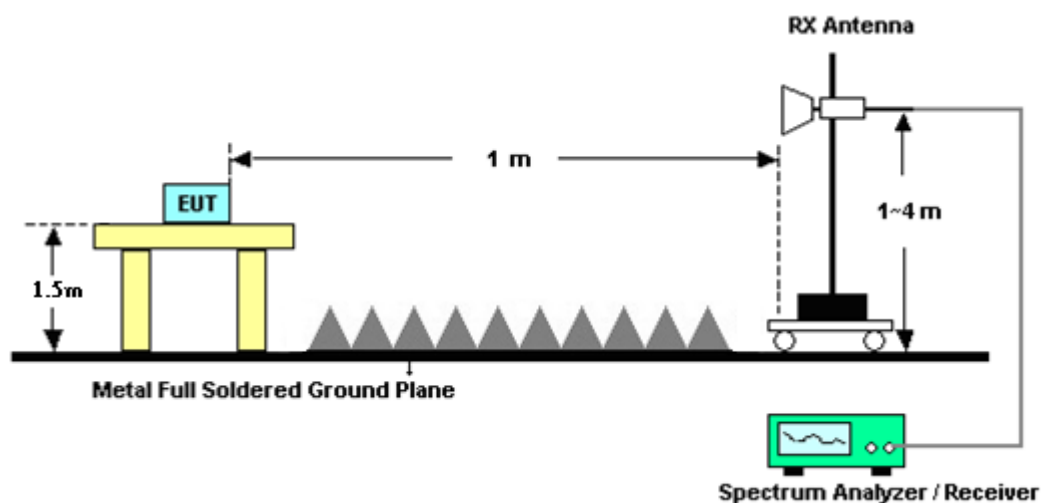
<For radiated emissions from 30MHz ~ 1GHz>



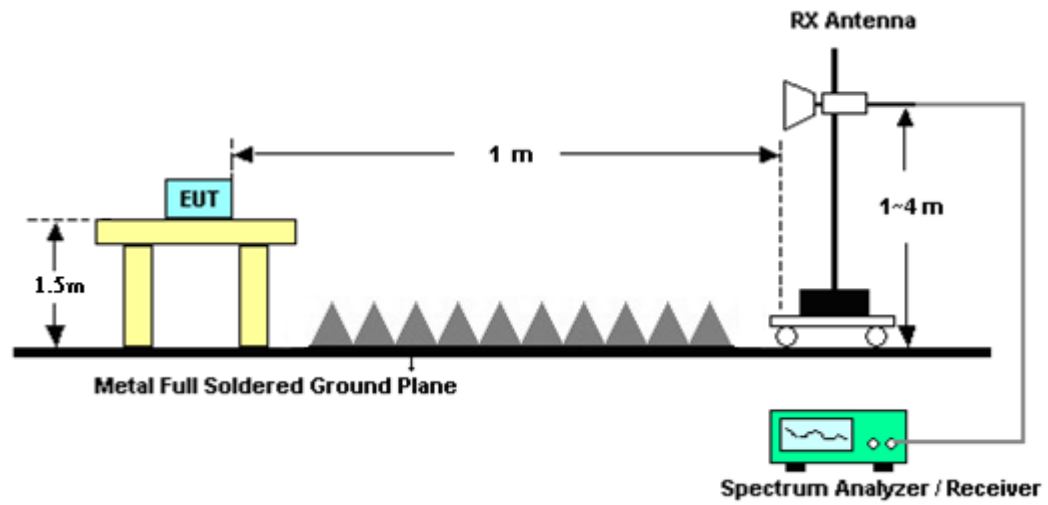
<For radiated emissions from 1 ~ 18GHz>



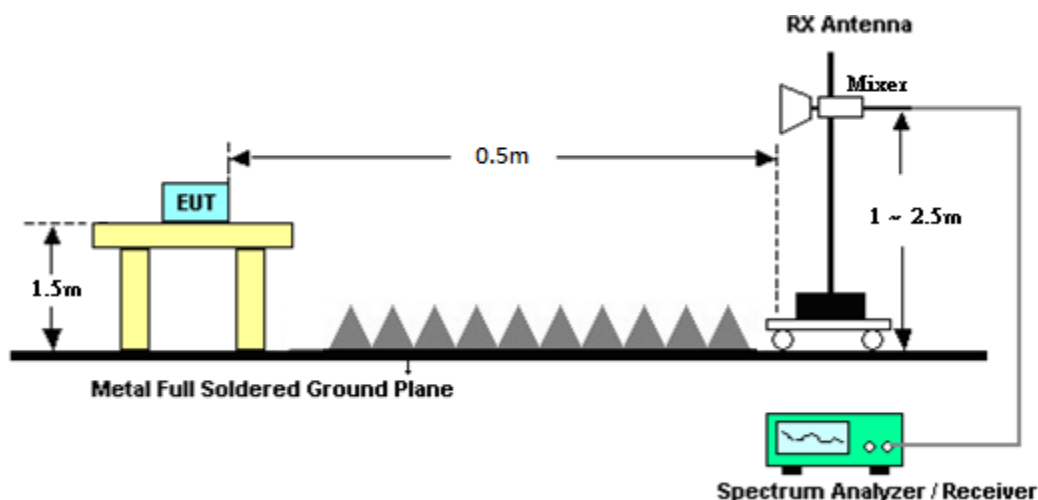
<For radiated emissions from 18 ~ 40GHz>



<For radiated emissions above 40 ~ 90GHz>



<For radiated emissions above 90 ~ 100GHz>



3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.2.6 Test Result of Field Strength of Fundamental and Radiated Spurious Emission

Please refer to Appendix B and C.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

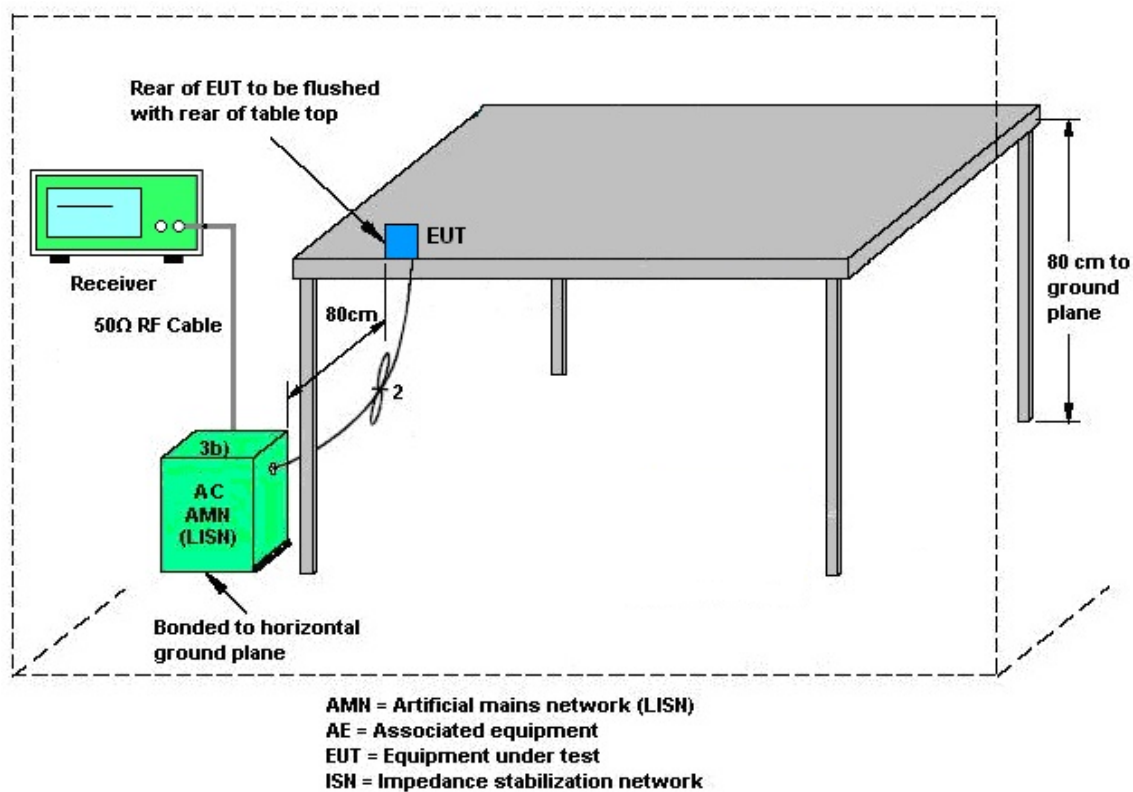
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. Connect EUT to the power mains through a line impedance stabilization network (LISN).
2. All the support units are connecting to the other LISN.
3. The LISN provides 50 ohm coupling impedance for the measuring instrument.
4. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



3.4 Antenna Requirements

3.4.1 Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

3.4.2 Antenna Connector Construction

Embedded in Antenna.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSW43	101456	2Hz to 43.5GHz	Feb. 20, 2025	Aug. 04, 2025~ Aug. 06, 2025	Feb. 19, 2026	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z60	101033	40GHz to 60GHz	Jun. 27, 2024	Aug. 04, 2025~ Aug. 06, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	FSZ-90	101867	60GHz to 90GHz	Jun. 27, 2024	Aug. 04, 2025~ Aug. 06, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z140	101130	90GHz to 140GHz	Jun. 27, 2024	Aug. 04, 2025~ Aug. 06, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-UPRR00	1410300003	40-60 GHz	Jun. 27, 2024	Aug. 04, 2025~ Aug. 06, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-EPRR00	1372000000	60-90 GHz	Jun. 27, 2024	Aug. 04, 2025~ Aug. 06, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-FPRR00	1011500008	90-140 GHz	Jun. 27, 2024	Aug. 04, 2025~ Aug. 06, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801607/2	N/A	Dec. 25, 2024	Aug. 04, 2025~ Aug. 06, 2025	Dec. 24, 2025	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519231/2	N/A	Dec. 25, 2024	Aug. 04, 2025~ Aug. 06, 2025	Dec. 24, 2025	Radiation (03CH18-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	N/A	Aug. 04, 2025~ Aug. 06, 2025	N/A	Radiation (03CH18-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Aug. 14, 2025~ Aug. 15, 2025	Nov. 26, 2025	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 18, 2024	Aug. 14, 2025~ Aug. 15, 2025	Dec. 17, 2025	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 28, 2024	Aug. 14, 2025~ Aug. 15, 2025	Aug. 27, 2025	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 07, 2024	Aug. 14, 2025~ Aug. 15, 2025	Dec. 06, 2025	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 21, 2025	Aug. 14, 2025~ Aug. 15, 2025	Jan. 20, 2026	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 14, 2024	Aug. 14, 2025~ Aug. 15, 2025	Oct. 13, 2025	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 22, 2025	Aug. 14, 2025~ Aug. 15, 2025	Jul. 21, 2026	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 14, 2025~ Aug. 15, 2025	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Aug. 14, 2025~ Aug. 15, 2025	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Aug. 14, 2025~ Aug. 15, 2025	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Aug. 14, 2025~ Aug. 15, 2025	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 29, 2024	Aug. 14, 2025~ Aug. 15, 2025	Aug. 28, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar. 05, 2025	Aug. 14, 2025~ Aug. 15, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 05, 2025	Aug. 14, 2025~ Aug. 15, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 05, 2025	Aug. 14, 2025~ Aug. 15, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	30M~40G	May 10, 2025	Aug. 14, 2025~ Aug. 15, 2025	May 09, 2026	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jul. 22, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 22, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	9561-FN00373	9kHz-200MHz	Oct. 23, 2024	Jul. 22, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Jul. 22, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Jul. 22, 2025	Mar. 23, 2026	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 26, 2025	Jul. 22, 2025	Mar. 25, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Jul. 22, 2025	Sep. 22, 2025	Conduction (CO07-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
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<For 03CH11-HY>

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 6GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Uncertainty of Radiated Emission Measurement (6GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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<For 03CH18-HY>

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (40 GHz ~ 140 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.59 dB
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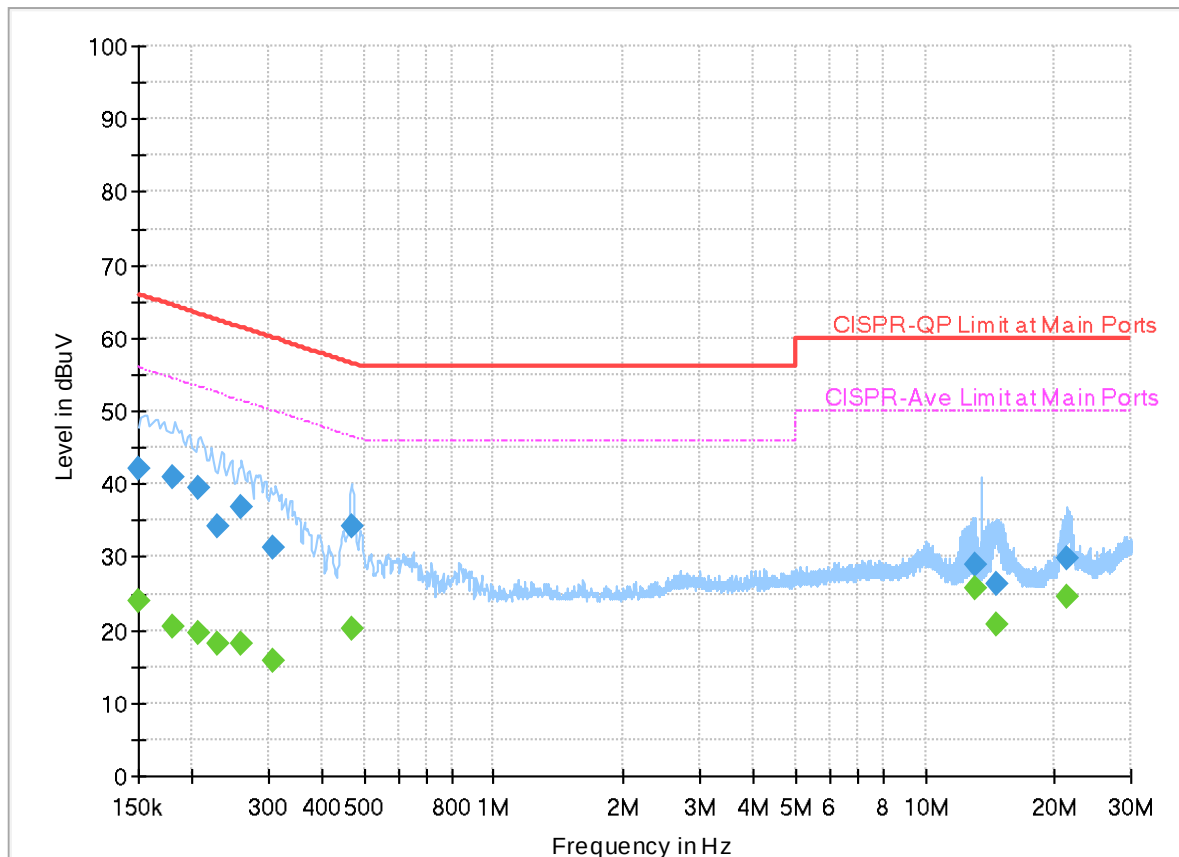


Appendix A. AC Conducted Emission Test Results

EUT Information

Report NO : 550659-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final Result

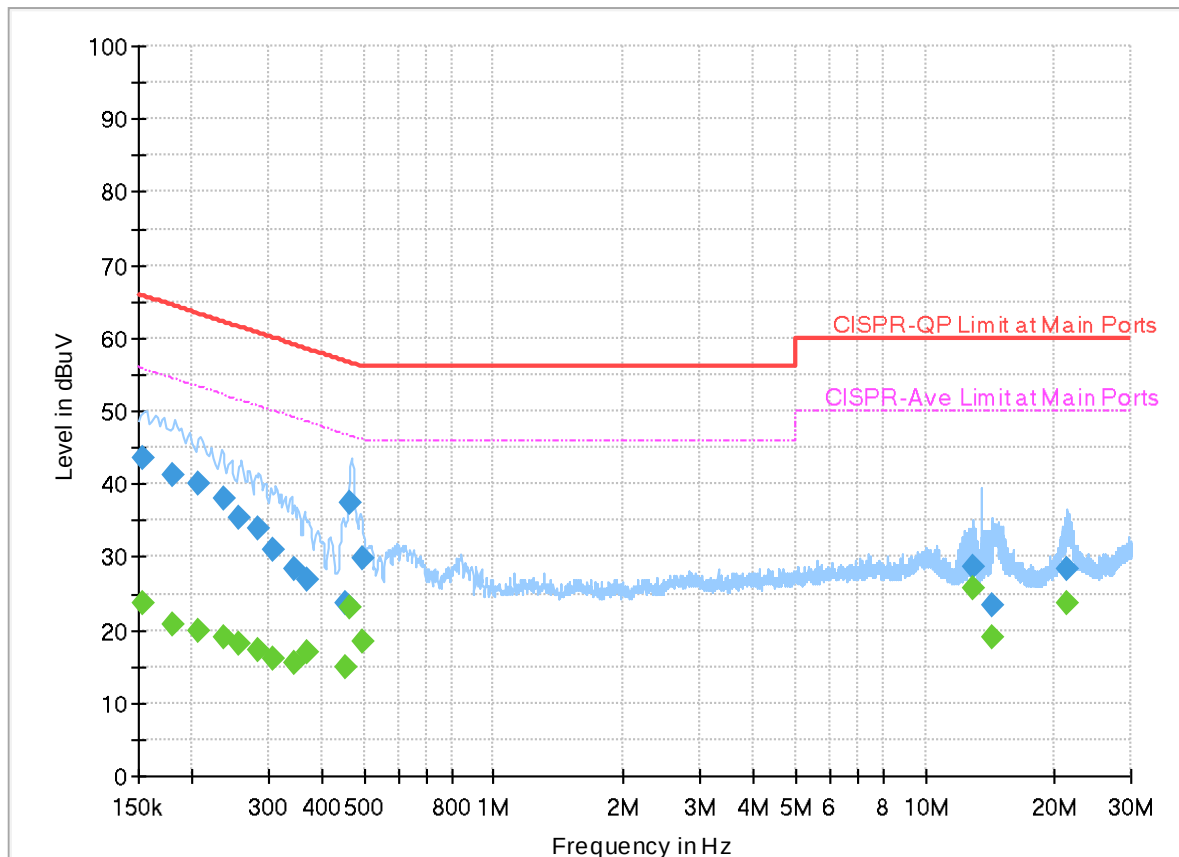
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.150000	---	23.94	56.00	32.06	L1	FLO	20.0
0.150000	41.96	---	66.00	24.04	L1	FLO	20.0
0.180780	---	20.46	54.45	33.99	L1	FLO	20.0
0.180780	40.92	---	64.45	23.53	L1	FLO	20.0
0.207060	---	19.53	53.32	33.79	L1	FLO	20.0
0.207060	39.38	---	63.32	23.94	L1	FLO	20.0
0.228750	---	18.10	52.50	34.40	L1	FLO	20.0
0.228750	34.33	---	62.50	28.17	L1	FLO	20.0
0.258180	---	18.08	51.49	33.41	L1	FLO	20.0
0.258180	36.83	---	61.49	24.66	L1	FLO	20.0
0.307500	---	15.92	50.04	34.12	L1	FLO	20.0
0.307500	31.18	---	60.04	28.86	L1	FLO	20.0
0.467430	---	20.22	46.56	26.34	L1	FLO	20.0
0.467430	34.14	---	56.56	22.42	L1	FLO	20.0
13.035750	---	25.82	50.00	24.18	L1	FLO	20.5
13.035750	28.90	---	60.00	31.10	L1	FLO	20.5
14.601120	---	20.83	50.00	29.17	L1	FLO	20.6
14.601120	26.23	---	60.00	33.77	L1	FLO	20.6
21.423750	---	24.60	50.00	25.40	L1	FLO	20.9

21.423750	29.77	---	60.00	30.23	L1	FLO	20.9
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EUT Information

Report NO : 550659-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.153150	---	23.72	55.83	32.11	N	FLO	20.0
0.153150	43.46	---	65.83	22.37	N	FLO	20.0
0.180420	---	20.69	54.47	33.78	N	FLO	20.0
0.180420	41.20	---	64.47	23.27	N	FLO	20.0
0.207510	---	19.91	53.30	33.39	N	FLO	20.0
0.207510	40.00	---	63.30	23.30	N	FLO	20.0
0.236400	---	18.96	52.22	33.26	N	FLO	20.0
0.236400	38.01	---	62.22	24.21	N	FLO	20.0
0.255750	---	18.09	51.57	33.48	N	FLO	20.0
0.255750	35.43	---	61.57	26.14	N	FLO	20.0
0.283470	---	17.30	50.71	33.41	N	FLO	20.0
0.283470	33.95	---	60.71	26.76	N	FLO	20.0
0.307860	---	16.19	50.03	33.84	N	FLO	20.0
0.307860	30.94	---	60.03	29.09	N	FLO	20.0
0.343500	---	15.61	49.12	33.51	N	FLO	20.0
0.343500	28.41	---	59.12	30.71	N	FLO	20.0
0.368160	---	16.83	48.54	31.71	N	FLO	20.0
0.368160	27.00	---	58.54	31.54	N	FLO	20.0
0.451500	---	14.87	46.85	31.98	N	FLO	20.0

0.451500	23.64	---	56.85	33.21	N	FLO	20.0
0.465900	---	23.21	46.59	23.38	N	FLO	20.0
0.465900	37.51	---	56.59	19.08	N	FLO	20.0
0.493440	---	18.37	46.11	27.74	N	FLO	20.0
0.493440	29.83	---	56.11	26.28	N	FLO	20.0
12.848100	---	25.66	50.00	24.34	N	FLO	20.5
12.848100	28.66	---	60.00	31.34	N	FLO	20.5
14.347500	---	18.91	50.00	31.09	N	FLO	20.6
14.347500	23.41	---	60.00	36.59	N	FLO	20.6
21.327000	---	23.66	50.00	26.34	N	FLO	20.9
21.327000	28.43	---	60.00	31.57	N	FLO	20.9



Appendix B. Radiated Spurious Emission

24GHz 24000~24250MHz

(Field strength of fundamental @ 3m)

24GHz	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
24.06GHz		23828	39.34	-34.66	74	57.87	38.93	6.08	54	179	161	P	H
		23800	26.52	-27.48	54	45.06	38.94	6.08	54.02	179	161	A	H
	*	24058	93.95	-34	127.95	112.29	38.92	6.11	53.83	179	161	P	H
	*	24058	93.59	-14.41	108	111.93	38.92	6.11	53.83	179	161	A	H
		24482	39.9	-34.1	74	57.45	39.09	6.22	53.32	179	161	P	H
		24614	26.83	-27.17	54	44.23	39.19	6.25	53.3	179	161	A	H
		23800	39.43	-34.57	74	57.97	38.94	6.08	54.02	278	157	P	V
		23802	26.35	-27.65	54	44.89	38.94	6.08	54.02	278	157	A	V
	*	24058	94.22	-33.73	127.95	112.56	38.92	6.11	53.83	278	157	P	V
	*	24058	93.85	-14.15	108	112.19	38.92	6.11	53.83	278	157	A	V
		25052	39.37	-34.63	74	56.43	39.47	6.32	53.31	278	157	P	V
		24622	26.6	-27.4	54	43.99	39.2	6.25	53.3	278	157	A	V
24.15GHz		23784	39.95	-34.05	74	58.51	38.94	6.07	54.03	170	155	P	H
		23802	26.6	-27.4	54	45.14	38.94	6.08	54.02	170	155	A	H
	*	24148	94.22	-33.73	127.95	112.38	38.96	6.14	53.72	170	155	P	H
	*	24148	93.85	-14.15	108	112.01	38.96	6.14	53.72	170	155	A	H
		24472	40.49	-33.51	74	58.06	39.09	6.21	53.33	170	155	P	H
		24616	26.85	-27.15	54	44.25	39.19	6.25	53.3	170	155	A	H
		23854	42.09	-31.91	74	60.61	38.93	6.08	53.99	278	157	P	V
		23800	26.32	-27.68	54	44.86	38.94	6.08	54.02	278	157	A	V
	*	24148	94.32	-33.63	127.95	112.48	38.96	6.14	53.72	278	157	P	V
	*	24148	94.07	-13.93	108	112.23	38.96	6.14	53.72	278	157	A	V
		24994	42	-32	74	59.01	39.5	6.33	53.3	278	157	P	V
		24616	26.59	-27.41	54	43.99	39.19	6.25	53.3	278	157	A	V



24GHz	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
24.24GHz		23804	39.83	-34.17	74	58.37	38.94	6.08	54.02	170	160	P	H
		23800	26.62	-27.38	54	45.16	38.94	6.08	54.02	170	160	A	H
	*	24238	95.11	-32.84	127.95	113.1	39	6.16	53.61	170	160	P	H
	*	24238	94.81	-13.19	108	112.8	39	6.16	53.61	170	160	A	H
		24250	62.79	-11.21	74	80.77	39	6.16	53.6	170	160	P	H
		24250	52.01	-1.99	54	69.99	39	6.16	53.6	170	160	A	H
		23566	39.25	-34.75	74	57.91	38.99	6.05	54.16	278	157	P	V
		23800	26.64	-27.36	54	45.18	38.94	6.08	54.02	278	157	A	V
	*	24238	95.13	-32.82	127.95	113.12	39	6.16	53.61	278	157	P	V
	*	24238	94.78	-13.22	108	112.77	39	6.16	53.61	278	157	A	V
		24250	63.99	-10.01	74	81.97	39	6.16	53.6	278	157	P	V
		24250	52.05	-1.95	54	70.03	39	6.16	53.6	278	157	A	V
Remark	- No other spurious found. - All results are Pass against Peak and Average limit line. - The general radiated emission limits in §15.209 is lesser attenuation as limit. - The maximized peak level complies with the average limit, unnecessary to perform an average measurement - Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB) Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB) - Level (dBμV/m)= Read Level(dBm)+Antenna Factor+ Cable Loss-Preamp Factor+ Distance extrapolation factor												



24GHz 24000~24250MHz
(Radiated Spurious Emission @ 3m)

24GHz	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
24.06GHz		22004	40.22	-33.78	74	60.14	38.6	5.82	54.8	179	161	P	H
		22598	33.34	-20.66	54	52.89	38.86	5.89	54.76	179	161	A	H
		39318	44.51	-29.49	74	57.78	44.25	8.67	56.65	179	161	P	H
		39956	32.57	-21.43	54	45.27	44.22	8.48	55.86	179	161	A	H
		22114	40.39	-33.61	74	60.24	38.65	5.84	54.8	278	157	P	V
		22598	33.54	-20.46	54	53.09	38.86	5.89	54.76	278	157	A	V
		39450	44.58	-29.42	74	57.38	44.36	8.92	56.54	278	157	P	V
		39956	32.33	-21.67	54	45.03	44.22	8.48	55.86	278	157	A	V
24.15GHz		22026	41.08	-32.92	74	60.99	38.61	5.82	54.8	170	155	P	H
		22686	35.66	-18.34	54	55.14	38.91	5.88	54.73	170	155	A	H
		39956	45.43	-28.57	74	58.13	44.22	8.48	55.86	170	155	P	H
		39956	32.65	-21.35	54	45.35	44.22	8.48	55.86	170	155	A	H
		22686	41.68	-32.32	74	61.16	38.91	5.88	54.73	278	157	P	V
		22686	35.79	-18.21	54	55.27	38.91	5.88	54.73	278	157	A	V
		39956	44.82	-29.18	74	57.52	44.22	8.48	55.86	278	157	P	V
		39956	32.38	-21.62	54	45.08	44.22	8.48	55.86	278	157	A	V
24.24GHz		22114	40.55	-33.45	74	60.4	38.65	5.84	54.8	170	160	P	H
		22774	30.46	-23.54	54	49.86	38.96	5.87	54.69	170	160	A	H
		39384	44.57	-29.43	74	57.6	44.31	8.79	56.59	170	160	P	H
		39450	32.24	-21.76	54	45.04	44.36	8.92	56.54	170	160	A	H
		21696	39.47	-34.53	74	59.24	38.78	5.91	54.92	278	157	P	V
		22774	30.67	-23.33	54	50.07	38.96	5.87	54.69	170	160	A	V
		39472	44.28	-29.72	74	56.99	44.38	8.97	56.52	278	157	P	V
		39956	32.76	-21.24	54	45.46	44.22	8.48	55.86	170	160	A	V
Remark	- No other spurious found. - All results are Pass against Peak and Average limit line. - The general radiated emission limits in §15.209 is lesser attenuation as limit. - The maximized peak level complies with the average limit, unnecessary to perform an average measurement - Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB) Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB) - Level (dBμV/m) = Read Level(dBm) + Antenna Factor + Cable Loss - Preamp Factor + Distance extrapolation factor												



24GHz 24000~24250MHz

(Radiated Spurious Emission & Harmonic @ 3m)

24GHz	Note	Frequency	Level	Margin	Limit	Read	Offset	Ant	Table	Peak	Pol.
					Line	Level	Factor	Pos	Pos	Avg.	
		(GHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB)	(cm)	(deg)	(P/A)	(H/V)
24.06GHz		48.12	54.32	-53.63	107.95	-40.92	45.98	-	-	P	H
		48.12	46.25	-41.7	87.95	-48.99	45.98	-	-	A	H
		48.678	58.54	-15.46	74	-36.7	45.98	-	-	P	H
		48.737	47.09	-6.91	54	-48.15	45.98	-	-	A	H
		60.265	61.49	-12.51	74	-33.75	49.58	-	-	P	H
		60.012	50.67	-3.33	54	-44.57	49.58	-	-	A	H
		72.18	54.33	-53.62	107.95	-40.91	49.58	-	-	P	H
		72.18	44.71	-43.24	87.95	-50.53	49.58	-	-	A	H
		90.689	62.45	-11.55	74	-32.77	44.96	-	-	P	H
		90.703	50.39	-3.61	54	-44.83	44.96	-	-	A	H
		96.24	50.83	-57.12	107.95	-44.39	44.96	-	-	P	H
		96.24	41.13	-46.82	87.95	-54.09	44.96	-	-	A	H
		48.12	54.06	-53.89	107.95	-41.18	45.98	-	-	P	V
		48.12	45.74	-42.21	87.95	-49.5	45.98	-	-	A	V
		48.299	57.98	-16.02	74	-37.26	45.98	-	-	P	V
		48.629	47.16	-6.84	54	-48.08	45.98	-	-	A	V
		60.156	62.29	-11.71	74	-32.95	49.58	-	-	P	V
		60.035	50.71	-3.29	54	-44.53	49.58	-	-	A	V
		72.18	54.33	-53.62	107.95	-40.91	49.58	-	-	P	V
		72.18	44.45	-43.5	87.95	-50.79	49.58	-	-	A	V
		91.419	62.12	-11.88	74	-33.1	44.96	-	-	P	V
		90.708	50.51	-3.49	54	-44.71	44.96	-	-	A	V
		96.24	49.63	-58.32	107.95	-45.59	44.96	-	-	P	V
		96.24	41.15	-46.8	87.95	-54.07	44.96	-	-	A	V
Remark	1. Except above, no other spurious found.										
	2. All results are Pass against Peak and Average limit line.										
	3. Test plots shown in the Annex B use closer distance and above final results are extrapolated to the distance specified by the limit, 3m, by offset with distance correction factor.										
	4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB) Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB) Distance extrapolation factor = $20 \log (0.5\text{m}/3\text{m}) = -15.56$ (dB)										
	5. Offset Factor = Antenna Factor (dB/m) + Cable Loss (dB)										
	6. Level (dBμV/m) = Read Level (dbm) + 104.78 + Distance extrapolation factor										

24GHz	Note	Frequency	Level	Margin	Limit	Read	Offset	Ant	Table	Peak	Pol.
					Line	Level	Factor	Pos	Pos	Avg.	
		(GHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB)	(cm)	(deg)	(P/A)	(H/V)
24.15GHz		48.3	55.17	-52.78	107.95	-40.07	45.98	-	-	P	H
		48.3	46.32	-41.63	87.95	-48.92	45.98	-	-	A	H
		46.748	58.15	-15.85	74	-37.09	45.98	-	-	P	H
		48.667	47.32	-6.68	54	-47.92	45.98	-	-	A	H
		60.405	61.23	-12.77	74	-34.01	49.58	-	-	P	H
		60.041	50.56	-3.44	54	-44.68	49.58	-	-	A	H
		72.45	52.9	-55.05	107.95	-42.34	49.58	-	-	P	H
		72.45	44.21	-43.74	87.95	-51.03	49.58	-	-	A	H
		90.192	61.69	-12.31	74	-33.53	44.96	-	-	P	H
		91.697	50.4	-3.6	54	-44.82	44.96	-	-	A	H
		96.6	50.17	-57.78	107.95	-45.05	44.96	-	-	P	H
		96.6	40.34	-47.61	87.95	-54.88	44.96	-	-	A	H
		48.3	54.82	-53.13	107.95	-40.42	45.98	-	-	P	V
		48.3	46.19	-41.76	87.95	-49.05	45.98	-	-	A	V
		48.659	58.9	-15.1	74	-36.34	45.98	-	-	P	V
		48.794	46.91	-7.09	54	-48.33	45.98	-	-	A	V
		60.204	61.55	-12.45	74	-33.69	49.58	-	-	P	V
		60.034	50.76	-3.24	54	-44.48	49.58	-	-	A	V
		72.45	52.27	-55.68	107.95	-42.97	49.58	-	-	P	V
		72.45	44.02	-43.93	87.95	-51.22	49.58	-	-	A	V
		90.264	61.67	-12.33	74	-33.55	44.96	-	-	P	V
		90.804	50.66	-3.34	54	-44.56	44.96	-	-	A	V
		96.6	49.11	-58.84	107.95	-46.11	44.96	-	-	P	V
		96.6	40.52	-47.43	87.95	-54.7	44.96	-	-	A	V
Remark	1. Except above, no other spurious found.										
	2. All results are Pass against Peak and Average limit line.										
	3. Test plots shown in the Annex B use closer distance and above final results are extrapolated to the distance specified by the limit, 3m, by offset with distance correction factor.										
	4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB) Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB) Distance extrapolation factor = $20 \log (0.5\text{m}/3\text{m}) = -15.56$ (dB)										
	5. Offset Factor = Antenna Factor (dB/m) + Cable Loss (dB)										
	6. Level (dBμV/m) = Read Level(dBm) + 104.78 + Distance extrapolation factor										

24GHz	Note	Frequency	Level	Margin	Limit	Read	Offset	Ant	Table	Peak	Pol.
					Line	Level	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB)	(cm)	(deg)	(P/A)	(H/V)
24.24GHz		48.48	56.12	-51.83	107.95	-39.12	45.98	-	-	P	H
		48.48	46.41	-41.54	87.95	-48.83	45.98	-	-	A	H
		48.947	57.87	-16.13	74	-37.37	45.98	-	-	P	H
		48.614	47.06	-6.94	54	-48.18	45.98	-	-	A	H
		60.405	61.23	-12.77	74	-34.01	49.58	-	-	P	H
		60.02	50.59	-3.41	54	-44.65	49.58	-	-	A	H
		72.72	52.89	-55.06	107.95	-42.35	49.58	-	-	P	H
		72.72	44.33	-43.62	87.95	-50.91	49.58	-	-	A	H
		90.868	62.03	-11.97	74	-33.19	44.96	-	-	P	H
		90.767	50.53	-3.47	54	-44.69	44.96	-	-	A	H
		96.96	49.72	-58.23	107.95	-45.5	44.96	-	-	P	H
		96.96	39.85	-48.1	87.95	-55.37	44.96	-	-	A	H
		48.48	55.27	-52.68	107.95	-39.97	45.98	-	-	P	V
		48.48	46.54	-41.41	87.95	-48.7	45.98	-	-	A	V
		59.939	57.66	-16.34	74	-37.58	45.98	-	-	P	V
		48.588	47.26	-6.74	54	-47.98	45.98	-	-	A	V
		60.214	61.78	-12.22	74	-33.46	49.58	-	-	P	V
		60.016	50.53	-3.47	54	-44.71	45.98	-	-	A	V
		72.72	53.32	-54.63	107.95	-41.92	49.58	-	-	P	V
		72.72	44.15	-43.8	87.95	-51.09	49.58	-	-	A	V
		90.306	62.24	-11.76	74	-32.98	44.96	-	-	P	V
		90.752	50.64	-3.36	54	-44.58	44.96	-	-	A	V
		96.96	48.77	-59.18	107.95	-46.45	44.96	-	-	P	V
		96.96	39.6	-48.35	87.95	-55.62	44.96	-	-	A	V
Remark	1. Except above, no other spurious found.										
	2. All results are Pass against Peak and Average limit line.										
	3. Test plots shown in the Annex B use closer distance and above final results are extrapolated to the distance specified by the limit, 3m, by offset with distance correction factor.										
	4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only										
	5. Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB) Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB) Distance extrapolation factor = $20 \log (0.5\text{m}/3\text{m}) = -15.56$ (dB)										
	6. Offset Factor = Antenna Factor (dB/m) + Cable Loss (dB)										
	7. Level (dBμV/m) = Read Level(dBm) + 104.78 + Distance extrapolation factor										



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical

A calculation example for radiated spurious emission is shown as below:

Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
24058	91.19	-36.76	127.95	109.1	38.7	-47.07	144	322	P	H
24058	90.71	-17.29	108	108.62	38.7	-47.07	144	322	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB) - Preamp Factor (dB)
2. Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Path Loss(dB)
3. Margin(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 24058MHz:

1. Level(dBμV/m)
 = Read Level(dBμV) + Antenna Factor(dB/m) + Path Loss(dB) - Distance factor
 = 109.1(dBμV) + 38.7(dB/m) - 47.07 (dB) - 9.54
 = 91.19(dBμV/m)
2. Margin(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 91.19(dBμV/m) – 127.95(dBμV/m)
 = -36.76(dB)

For Average Limit @ 24058MHz:

1. Level(dBμV/m)
 = Read Level(dBμV) + Antenna Factor(dB/m) + Path Loss(dB) - Distance factor
 = 108.62(dBμV) + 38.7(dB/m) - 53.75 (dB) - 9.54
 = 90.71 (dBμV/m)
2. Margin(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 90.71(dBμV/m) – 108(dBμV/m)
 = -17.29(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



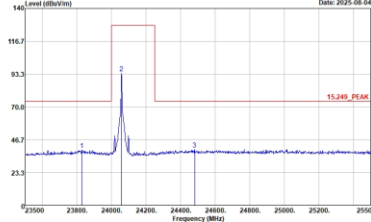
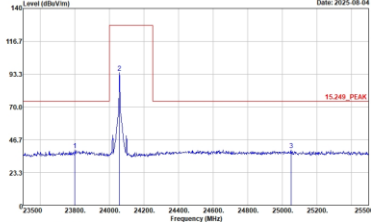
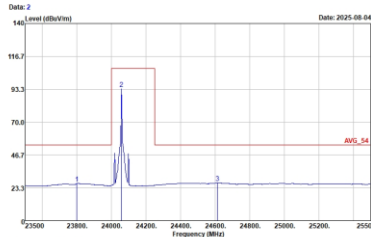
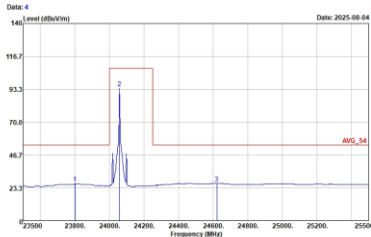
Appendix C. Radiated Spurious Emission Plots

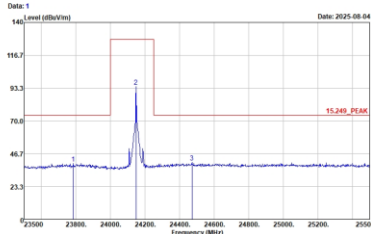
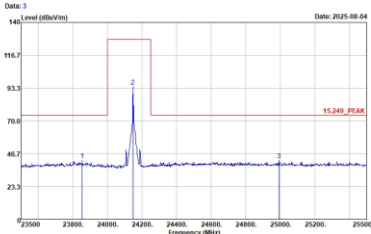
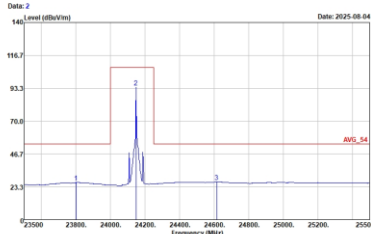
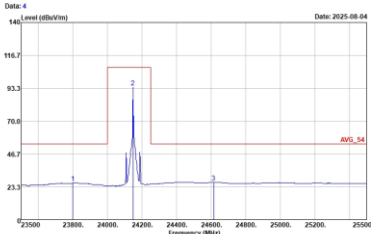
Test Engineer :	Eric Jeng and Fu Chen	Temperature :	19.6~25.7°C
		Relative Humidity :	51~65.1%



24GHz 24000~24250MHz

Field strength of fundamental@ 3m

24GHz	Field strength of fundamental	
	Test frequency:24.06GHz	
	Horizontal	Vertical
Peak	Date: 1 160 116.7 93.3 70.6 46.7 23.3 23500 23800 24000 24200 24400 24600 24800 25000 25200 25500 Frequency (MHz)  Site : 03CHB-HY Condition : 15.249_Peak Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 1	Date: 3 160 116.7 93.3 70.6 46.7 23.3 23500 23800 24000 24200 24400 24600 24800 25000 25200 25500 Frequency (MHz)  Site : 03CHB-HY Condition : 15.249_Peak Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 1
Avg.	Date: 2 160 116.7 93.3 70.6 46.7 23.3 23500 23800 24000 24200 24400 24600 24800 25000 25200 25500 Frequency (MHz)  Site : 03CHB-HY Condition : AV6_54 Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 1	Date: 4 160 116.7 93.3 70.6 46.7 23.3 23500 23800 24000 24200 24400 24600 24800 25000 25200 25500 Frequency (MHz)  Site : 03CHB-HY Condition : AV6_54 Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 1

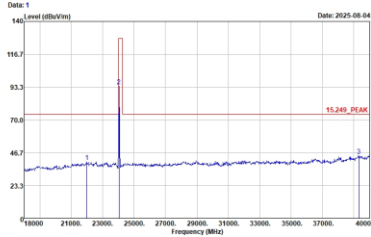
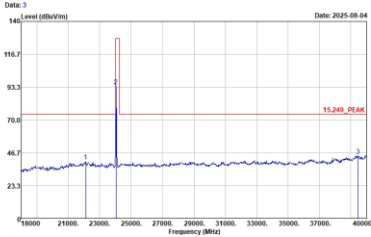
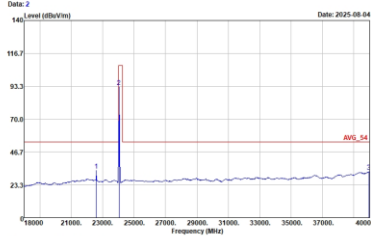
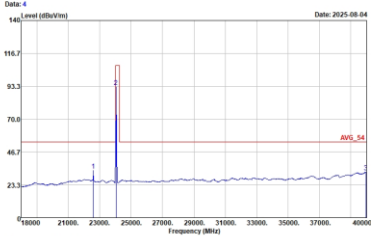
24GHz	Field strength of fundamental	
	Test frequency :24.15GHz	
	Horizontal	Vertical
Peak	Site : 03CHB-HY Condition : 15.249_Peak Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 2 	Site : 03CHB-HY Condition : 15.249_Peak Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 2 
Avg.	Site : 03CHB-HY Condition : AV6_54 Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 2 	Site : 03CHB-HY Condition : AV6_54 Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 2 

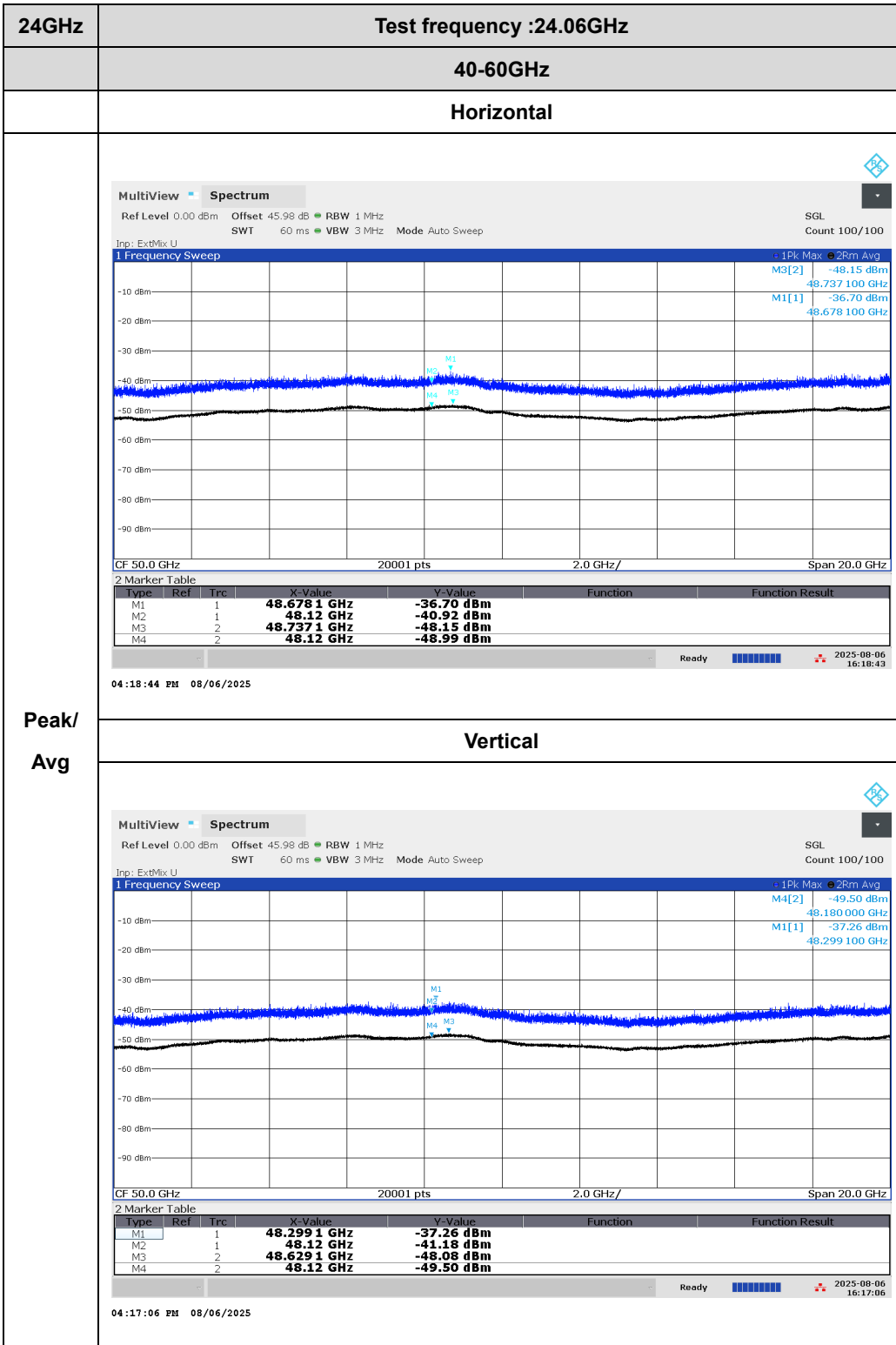


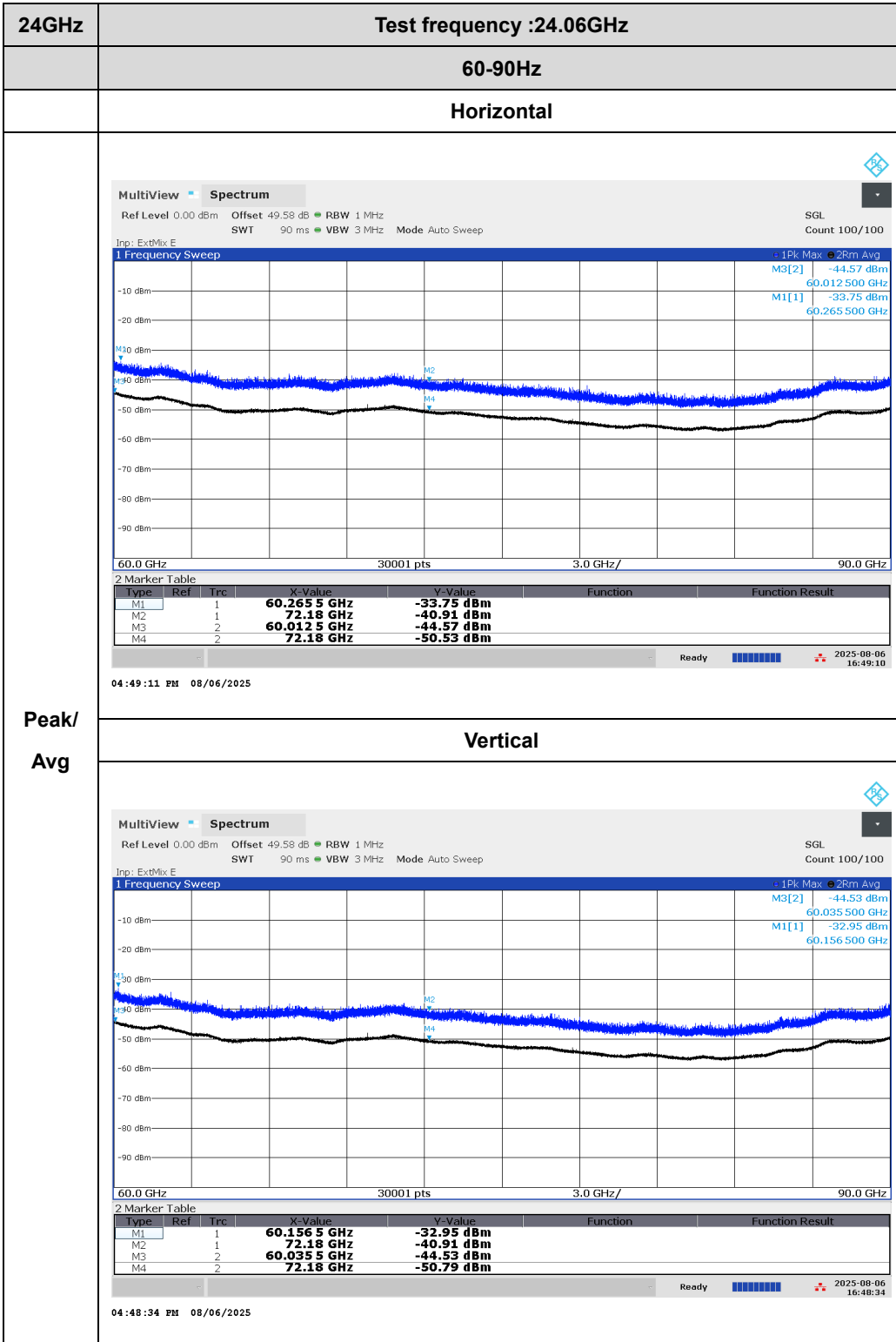
24GHz	Field strength of fundamental	
	Test frequency :24.24GHz	
	Horizontal	Vertical
Peak	Date: 1 Date: 2025-08-04 Site : 03CH-B-HY Condition : 15.249_Peak Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 3	Date: 3 Date: 2025-08-04 Site : 03CH-B-HY Condition : 15.249_Peak Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 3
Avg.	Date: 2 Date: 2025-08-04 Site : 03CH-B-HY Condition : AVG_54 Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 3	Date: 4 Date: 2025-08-04 Site : 03CH-B-HY Condition : AVG_54 Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 3

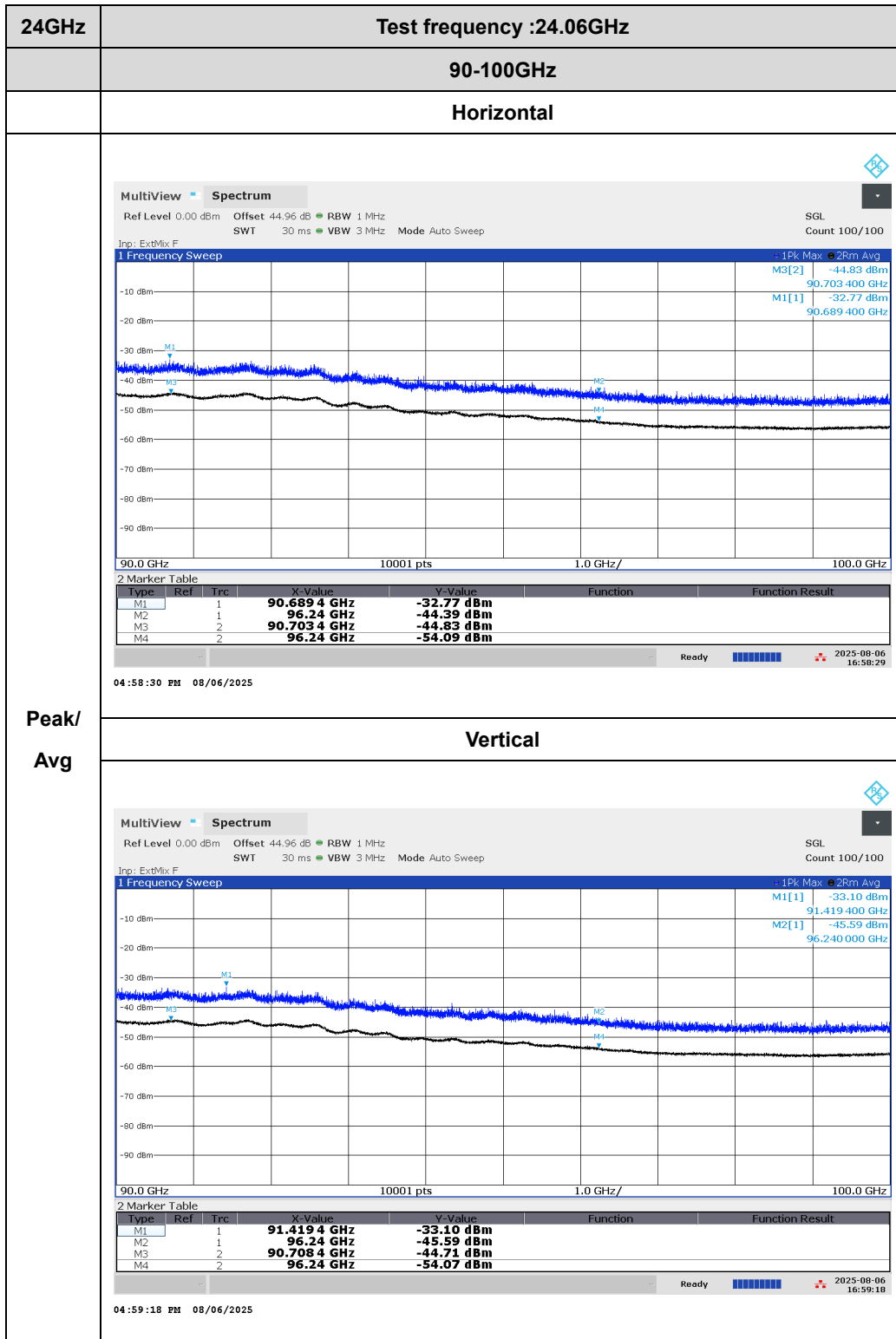
24GHz 24000~24250MHz

(Radiated Spurious Emission& Harmonic @ 3m)

24GHz	Test frequency :24.06GHz	
	18-40GHz	
	Horizontal	Vertical
Peak	Site : 03CHB-HY Condition : 15.249_PEAk Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 1  Horizontal Peak Spectrum Plot showing Level (dBm/Hz) vs Frequency (MHz). The plot displays a sharp peak at 24.06 GHz, labeled '15.249_PEAk'. The y-axis ranges from 23.3 to 140 dBm/Hz, and the x-axis ranges from 18000 to 40000 MHz.	Site : 03CHB-HY Condition : 15.249_PEAk Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 1  Vertical Peak Spectrum Plot showing Level (dBm/Hz) vs Frequency (MHz). The plot displays a sharp peak at 24.06 GHz, labeled '15.249_PEAk'. The y-axis ranges from 23.3 to 140 dBm/Hz, and the x-axis ranges from 18000 to 40000 MHz.
Avg	Site : 03CHB-HY Condition : AV6_54 Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 1  Horizontal Average Spectrum Plot showing Level (dBm/Hz) vs Frequency (MHz). The plot displays a broad peak at 24.06 GHz, labeled 'AV6_54'. The y-axis ranges from 23.3 to 140 dBm/Hz, and the x-axis ranges from 18000 to 40000 MHz.	Site : 03CHB-HY Condition : AV6_54 Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 1  Vertical Average Spectrum Plot showing Level (dBm/Hz) vs Frequency (MHz). The plot displays a broad peak at 24.06 GHz, labeled 'AV6_54'. The y-axis ranges from 23.3 to 140 dBm/Hz, and the x-axis ranges from 18000 to 40000 MHz.

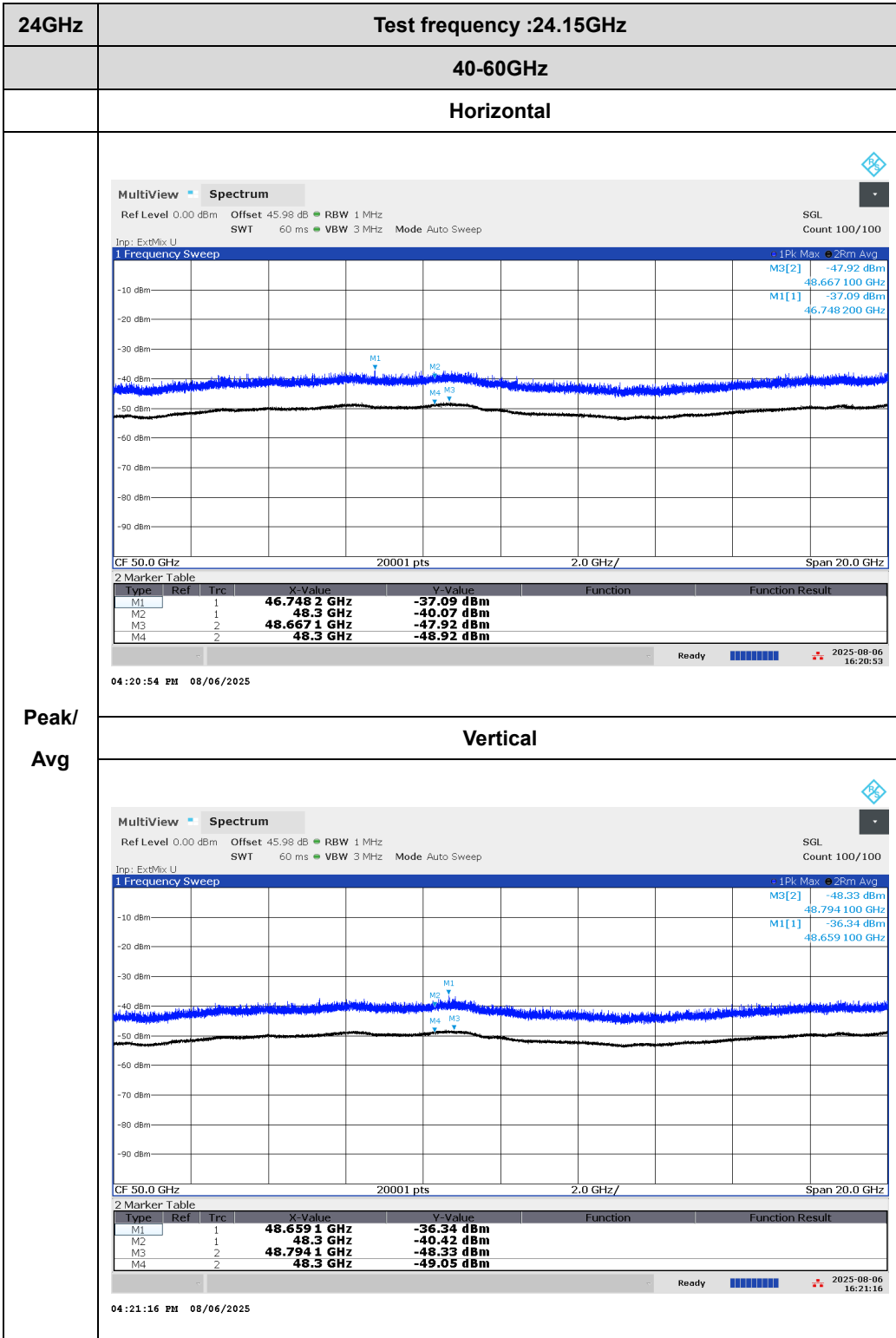


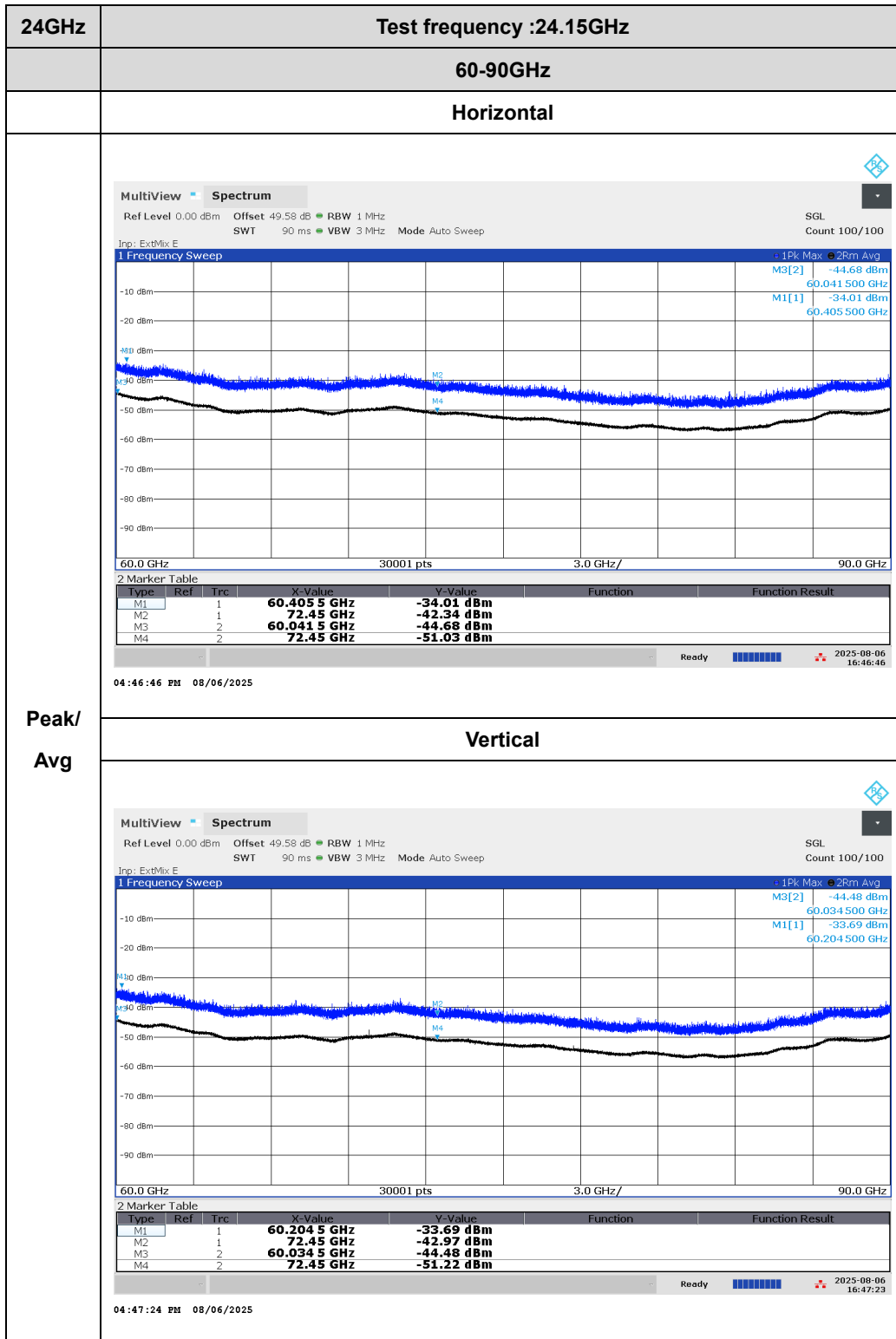






24GHz	Test frequency :24.15GHz	
	18-40GHz	
	Horizontal	Vertical
Peak	Date: 1 Date: 2025-08-04 Site : 03CH-B-HY Condition : 15.249_PEAk Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 2	Date: 3 Date: 2025-08-04 Site : 03CH-B-HY Condition : 15.249_PEAk Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 2
Avg	Date: 2 Date: 2025-08-04 Site : 03CH-B-HY Condition : AVG_54 Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 2	Date: 4 Date: 2025-08-04 Site : 03CH-B-HY Condition : AVG_54 Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 2



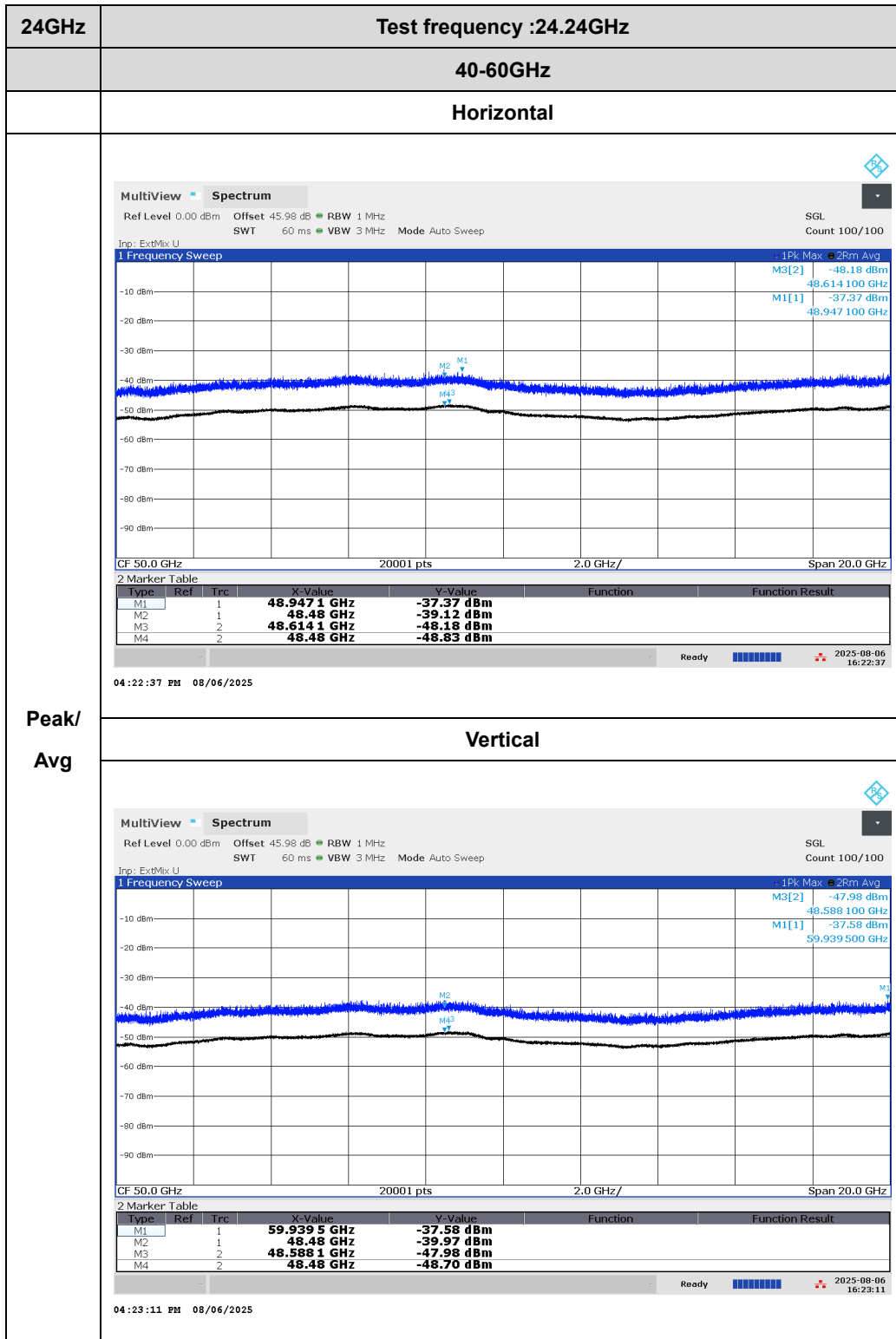


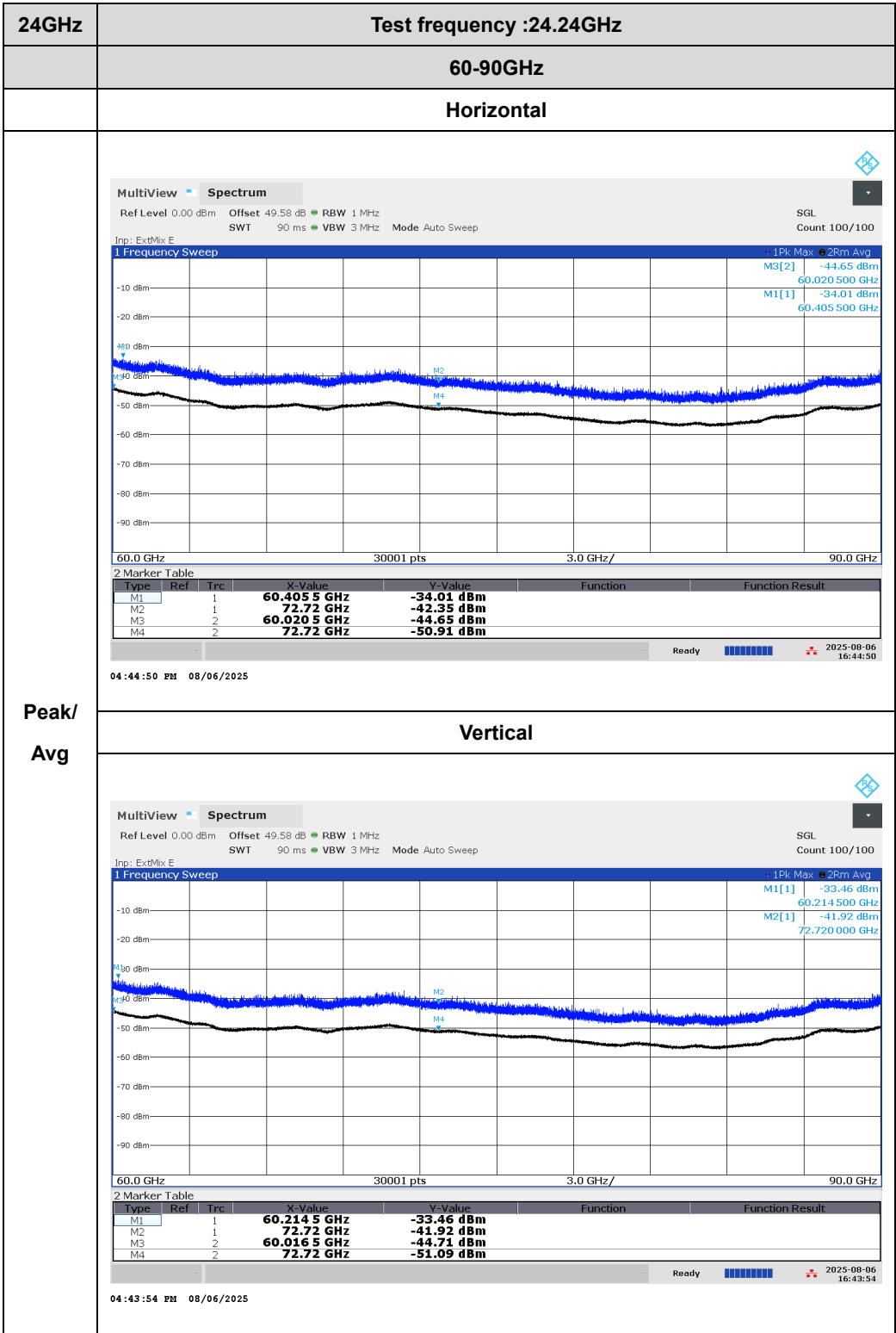


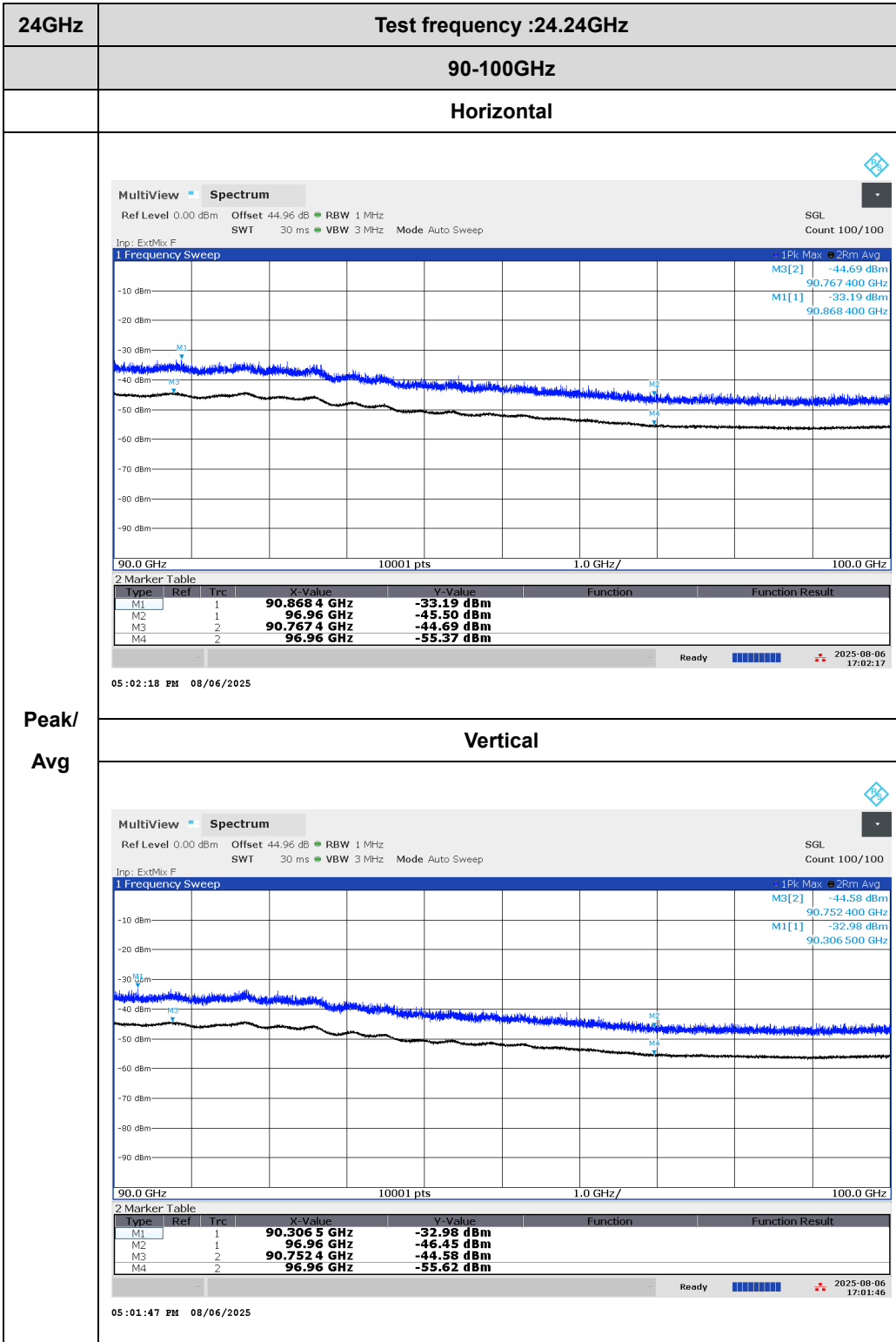
24GHz	Test frequency :24.15GHz																																																																									
	90-100GHz																																																																									
	Horizontal																																																																									
Peak/ Avg	MultiView Spectrum Ref Level 0.00 dBm Offset 44.96 dB RBW 1 MHz SWT 30 ms VBW 3 MHz Mode Auto Sweep SGL Count 100/100 Inp: ExtMix F 1 Frequency Sweep 1Pk Max 2Rm Avg M3[2] -44.56 dBm 90.804 400 GHz M1[1] -33.55 dBm 90.264 500 GHz -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm 90.0 GHz 10001 pts 1.0 GHz/ 100.0 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>90.264 5 GHz</td><td>-33.55 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>96.6 GHz</td><td>-46.11 dBm</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>2</td><td>90.804 4 GHz</td><td>-44.56 dBm</td><td></td><td></td></tr><tr><td>M4</td><td></td><td>2</td><td>96.6 GHz</td><td>-54.70 dBm</td><td></td><td></td></tr></table> Ready 2025-08-06 17:01:07 05:01:07 PM 08/06/2025 <tr><td> MultiView Spectrum Ref Level 0.00 dBm Offset 44.96 dB RBW 1 MHz SWT 30 ms VBW 3 MHz Mode Auto Sweep SGL Count 100/100 Inp: ExtMix F 1 Frequency Sweep 1Pk Max 2Rm Avg M1[1] -33.53 dBm 90.192 500 GHz M2[1] -45.05 dBm 96.600 000 GHz -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm 90.0 GHz 10001 pts 1.0 GHz/ 100.0 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>90.192 5 GHz</td><td>-33.53 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>96.6 GHz</td><td>-45.05 dBm</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>2</td><td>91.697 3 GHz</td><td>-44.82 dBm</td><td></td><td></td></tr><tr><td>M4</td><td></td><td>2</td><td>96.6 GHz</td><td>-54.88 dBm</td><td></td><td></td></tr></table> Ready 2025-08-06 17:08:43 05:00:43 PM 08/06/2025 <tr><td></td><td>Vertical</td></tr></td></tr>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1		1	90.264 5 GHz	-33.55 dBm			M2		1	96.6 GHz	-46.11 dBm			M3		2	90.804 4 GHz	-44.56 dBm			M4		2	96.6 GHz	-54.70 dBm			MultiView Spectrum Ref Level 0.00 dBm Offset 44.96 dB RBW 1 MHz SWT 30 ms VBW 3 MHz Mode Auto Sweep SGL Count 100/100 Inp: ExtMix F 1 Frequency Sweep 1Pk Max 2Rm Avg M1[1] -33.53 dBm 90.192 500 GHz M2[1] -45.05 dBm 96.600 000 GHz -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm 90.0 GHz 10001 pts 1.0 GHz/ 100.0 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>90.192 5 GHz</td><td>-33.53 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>96.6 GHz</td><td>-45.05 dBm</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>2</td><td>91.697 3 GHz</td><td>-44.82 dBm</td><td></td><td></td></tr><tr><td>M4</td><td></td><td>2</td><td>96.6 GHz</td><td>-54.88 dBm</td><td></td><td></td></tr></table> Ready 2025-08-06 17:08:43 05:00:43 PM 08/06/2025 <tr><td></td><td>Vertical</td></tr>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1		1	90.192 5 GHz	-33.53 dBm			M2		1	96.6 GHz	-45.05 dBm			M3		2	91.697 3 GHz	-44.82 dBm			M4		2	96.6 GHz	-54.88 dBm				Vertical
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	Vertical																																																																									



24GHz	Test frequency :24.24GHz	
	18-40GHz	
	Horizontal	Vertical
Pak	Date: 1 Date: 2025-08-04 Site : 03CH-B-HY Condition : 15.249_Peak Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 3	Date: 3 Date: 2025-08-04 Site : 03CH-B-HY Condition : 15.249_Peak Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 3
Avg	Date: 2 Date: 2025-08-04 Site : 03CH-B-HY Condition : AVG_54 Im 9170584_20241206 HORIZONTAL Project : 550659-01 Mode : 3	Date: 4 Date: 2025-08-04 Site : 03CH-B-HY Condition : AVG_54 Im 9170584_20241206 VERTICAL Project : 550659-01 Mode : 3









24GHz	Test frequency :24.06GHz																																																																																																																																																																																																																																									
	1-18GHz																																																																																																																																																																																																																																									
	Horizontal	Vertical																																																																																																																																																																																																																																								
Peak/ Avg.	Level (dBμV/m) 140 120.0 105.0 87.5 70.0 52.5 35.0 17.5 1000 4400 7800 11200 14600 18000 Frequency (MHz) Site : 83CH1-0Y Condition: PEAK_74_3m_91280_81628_240628 HORIZONTAL Mode : 1 Setting : <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><td>1</td><td>2394.00</td><td>37.50</td><td>74.00</td><td>-36.41</td><td>69.25</td><td>27.04</td><td>0.82</td><td>66.82</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>2790.00</td><td>38.14</td><td>74.00</td><td>-35.80</td><td>68.21</td><td>26.30</td><td>0.19</td><td>66.56</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>4247.00</td><td>42.31</td><td>74.00</td><td>-31.67</td><td>67.62</td><td>21.20</td><td>10.31</td><td>66.30</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>8446.00</td><td>45.87</td><td>74.00</td><td>-28.13</td><td>68.50</td><td>17.18</td><td>14.84</td><td>66.65</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>12450.00</td><td>49.75</td><td>74.00</td><td>-24.25</td><td>58.46</td><td>10.80</td><td>10.10</td><td>65.99</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>12450.00</td><td>38.78</td><td>54.00</td><td>-15.22</td><td>47.49</td><td>10.50</td><td>10.30</td><td>65.99</td><td>0.00</td><td>--</td><td>Average</td></tr><tr><td>7</td><td>14490.00</td><td>49.11</td><td>74.00</td><td>-24.89</td><td>54.83</td><td>40.30</td><td>20.00</td><td>65.90</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>8</td><td>14490.00</td><td>40.18</td><td>54.00</td><td>-13.90</td><td>45.61</td><td>40.30</td><td>20.00</td><td>65.90</td><td>0.00</td><td>--</td><td>Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor				1	2394.00	37.50	74.00	-36.41	69.25	27.04	0.82	66.82	0.00	--	Peak	2	2790.00	38.14	74.00	-35.80	68.21	26.30	0.19	66.56	0.00	--	Peak	3	4247.00	42.31	74.00	-31.67	67.62	21.20	10.31	66.30	0.00	--	Peak	4	8446.00	45.87	74.00	-28.13	68.50	17.18	14.84	66.65	0.00	--	Peak	5	12450.00	49.75	74.00	-24.25	58.46	10.80	10.10	65.99	0.00	--	Peak	6	12450.00	38.78	54.00	-15.22	47.49	10.50	10.30	65.99	0.00	--	Average	7	14490.00	49.11	74.00	-24.89	54.83	40.30	20.00	65.90	0.00	--	Peak	8	14490.00	40.18	54.00	-13.90	45.61	40.30	20.00	65.90	0.00	--	Average	Level (dBμV/m) 140 120.0 105.0 87.5 70.0 52.5 35.0 17.5 1000 4400 7800 11200 14600 18000 Frequency (MHz) Site : 83CH1-0Y Condition: PEAK_74_3m_91280_81628_240628 VERTICAL Mode : 1 Setting : <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><td>1</td><td>2392.00</td><td>36.30</td><td>74.00</td><td>-37.72</td><td>69.42</td><td>27.00</td><td>-0.62</td><td>66.64</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>2790.00</td><td>38.48</td><td>74.00</td><td>-35.52</td><td>68.55</td><td>26.30</td><td>0.19</td><td>66.56</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>4247.00</td><td>41.25</td><td>74.00</td><td>-31.75</td><td>66.54</td><td>21.20</td><td>10.31</td><td>66.30</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>8420.00</td><td>45.69</td><td>74.00</td><td>-28.40</td><td>68.28</td><td>17.12</td><td>14.83</td><td>66.63</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>12450.00</td><td>49.65</td><td>74.00</td><td>-24.35</td><td>58.36</td><td>10.30</td><td>10.10</td><td>65.99</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>12450.00</td><td>38.98</td><td>54.00</td><td>-15.02</td><td>47.69</td><td>10.50</td><td>10.30</td><td>65.99</td><td>0.00</td><td>--</td><td>Average</td></tr><tr><td>7</td><td>14490.00</td><td>49.79</td><td>74.00</td><td>-24.21</td><td>55.30</td><td>40.30</td><td>20.00</td><td>65.90</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>8</td><td>14490.00</td><td>39.85</td><td>54.00</td><td>-14.15</td><td>45.36</td><td>40.30</td><td>20.00</td><td>65.90</td><td>0.00</td><td>--</td><td>Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor				1	2392.00	36.30	74.00	-37.72	69.42	27.00	-0.62	66.64	0.00	--	Peak	2	2790.00	38.48	74.00	-35.52	68.55	26.30	0.19	66.56	0.00	--	Peak	3	4247.00	41.25	74.00	-31.75	66.54	21.20	10.31	66.30	0.00	--	Peak	4	8420.00	45.69	74.00	-28.40	68.28	17.12	14.83	66.63	0.00	--	Peak	5	12450.00	49.65	74.00	-24.35	58.36	10.30	10.10	65.99	0.00	--	Peak	6	12450.00	38.98	54.00	-15.02	47.69	10.50	10.30	65.99	0.00	--	Average	7	14490.00	49.79	74.00	-24.21	55.30	40.30	20.00	65.90	0.00	--	Peak	8	14490.00	39.85	54.00	-14.15	45.36	40.30	20.00	65.90	0.00	--	Average
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																																																																	
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3	4247.00	42.31	74.00	-31.67	67.62	21.20	10.31	66.30	0.00	--	Peak																																																																																																																																																																																																																															
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5	12450.00	49.75	74.00	-24.25	58.46	10.80	10.10	65.99	0.00	--	Peak																																																																																																																																																																																																																															
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6	12450.00	38.98	54.00	-15.02	47.69	10.50	10.30	65.99	0.00	--	Average																																																																																																																																																																																																																															
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24GHz

Test frequency :24.15GHz

1-18GHz

Horizontal

Vertical

Peak/
Avg.

Level (dBμV/m)

140

122.5

105.0

87.5

70.0

52.5

35.0

17.5

Frequency (MHz)

1000

4000

7000

11200

14000

18000

Site : 83CH1-0Y

Condition: PEAK_74_3m 91280_81628_240828 HORIZONTAL

Mode : 2

Setting :

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		
Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor						
1	2343.00	37.37	74.00	-36.83	69.15	27.13	7.72	66.83	0.00	--	Peak
2	2019.00	39.37	74.00	-34.83	68.76	28.48	8.43	66.42	0.00	--	Peak
3	2087.00	41.37	74.00	-32.83	68.00	29.00	9.00	66.75	0.00	--	Peak
4	1846.00	46.00	74.00	-27.04	68.69	37.18	14.84	66.65	0.00	--	Peak
5	12450.00	49.89	74.00	-24.11	58.40	38.00	15.10	65.99	0.00	--	Peak
6	12450.00	38.05	54.00	-15.15	47.56	38.90	18.38	65.99	0.00	--	Average
7	14464.00	49.85	74.00	-24.15	55.53	40.20	20.00	65.94	0.00	--	Peak
8	14464.00	39.33	54.00	-14.87	45.61	40.20	20.00	65.94	0.00	--	Average

Level (dBμV/m)

140

122.5

105.0

87.5

70.0

52.5

35.0

17.5

Frequency (MHz)

1000

4000

7000

11200

14000

18000

Site : 83CH1-0Y

Condition: PEAK_74_3m 91280_81628_240828 VERTICAL

Mode : 2

Setting :

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		
Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor						
1	2394.00	37.31	74.00	-36.69	69.37	27.38	7.82	66.82	0.00	--	Peak
2	2082.00	39.39	74.00	-34.61	69.83	28.40	8.40	66.44	0.00	--	Peak
3	4290.00	43.59	74.00	-31.71	47.68	31.20	10.29	66.66	0.00	--	Peak
4	18461.00	46.46	74.00	-27.54	61.82	37.25	14.85	66.66	0.00	--	Peak
5	12543.00	49.89	74.00	-24.10	58.52	38.90	18.46	66.66	0.00	--	Peak
6	12543.00	38.89	54.00	-15.20	47.52	38.90	18.46	66.66	0.00	--	Average
7	14482.00	49.88	74.00	-24.32	55.38	40.32	20.00	65.92	0.00	--	Peak
8	14482.00	40.16	54.00	-13.84	45.76	40.32	20.00	65.92	0.00	--	Average



24GHz	Test frequency :24.24GHz																																																																																																																																																																																																																																									
	1-18GHz																																																																																																																																																																																																																																									
	Horizontal	Vertical																																																																																																																																																																																																																																								
Peak/ Avg.	Level (dBμV/m) 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 1000 4000 7000 11200 14000 18000 Frequency (MHz) Date: 2025-08-15 PEAK_74 Avg_54 Site : 83CH1-07 Condition: PEAK_74_3m_91280_81628_240828 HORIZONTAL Mode : 3 Setting : <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><td>1</td><td>2380.00</td><td>36.89</td><td>74.00</td><td>-37.11</td><td>68.89</td><td>27.18</td><td>7.65</td><td>66.84</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>2751.00</td><td>38.44</td><td>74.00</td><td>-35.56</td><td>68.43</td><td>28.21</td><td>8.38</td><td>66.38</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>4308.00</td><td>41.45</td><td>74.00</td><td>-32.55</td><td>66.54</td><td>31.49</td><td>16.34</td><td>66.52</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>8446.00</td><td>45.39</td><td>74.00</td><td>-28.62</td><td>68.61</td><td>37.18</td><td>14.84</td><td>66.65</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>12375.00</td><td>49.54</td><td>74.00</td><td>-24.46</td><td>58.51</td><td>38.98</td><td>15.38</td><td>65.87</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>12375.00</td><td>39.81</td><td>54.00</td><td>-14.99</td><td>47.78</td><td>38.98</td><td>18.38</td><td>65.97</td><td>0.00</td><td>--</td><td>Average</td></tr><tr><td>7</td><td>14464.00</td><td>49.48</td><td>74.00</td><td>-24.52</td><td>59.16</td><td>40.28</td><td>20.00</td><td>65.94</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>8</td><td>14464.00</td><td>48.87</td><td>54.00</td><td>-13.93</td><td>45.75</td><td>40.28</td><td>20.00</td><td>65.94</td><td>0.00</td><td>--</td><td>Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor				1	2380.00	36.89	74.00	-37.11	68.89	27.18	7.65	66.84	0.00	--	Peak	2	2751.00	38.44	74.00	-35.56	68.43	28.21	8.38	66.38	0.00	--	Peak	3	4308.00	41.45	74.00	-32.55	66.54	31.49	16.34	66.52	0.00	--	Peak	4	8446.00	45.39	74.00	-28.62	68.61	37.18	14.84	66.65	0.00	--	Peak	5	12375.00	49.54	74.00	-24.46	58.51	38.98	15.38	65.87	0.00	--	Peak	6	12375.00	39.81	54.00	-14.99	47.78	38.98	18.38	65.97	0.00	--	Average	7	14464.00	49.48	74.00	-24.52	59.16	40.28	20.00	65.94	0.00	--	Peak	8	14464.00	48.87	54.00	-13.93	45.75	40.28	20.00	65.94	0.00	--	Average	Level (dBμV/m) 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 1000 4000 7000 11200 14000 18000 Frequency (MHz) Date: 2025-08-15 PEAK_74 Avg_54 Site : 83CH1-07 Condition: PEAK_74_3m_91280_81628_240828 VERTICAL Mode : 3 Setting : <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><td>1</td><td>2380.00</td><td>37.15</td><td>74.00</td><td>-36.85</td><td>69.15</td><td>27.18</td><td>7.66</td><td>66.84</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>2853.00</td><td>38.15</td><td>74.00</td><td>-35.85</td><td>67.55</td><td>28.58</td><td>8.48</td><td>66.38</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>4247.00</td><td>42.39</td><td>74.00</td><td>-31.61</td><td>67.68</td><td>31.29</td><td>16.32</td><td>66.50</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>8412.00</td><td>45.87</td><td>74.00</td><td>-28.13</td><td>68.61</td><td>37.85</td><td>14.82</td><td>66.61</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>12475.00</td><td>49.51</td><td>74.00</td><td>-24.49</td><td>58.61</td><td>38.98</td><td>15.48</td><td>66.00</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>12475.00</td><td>39.18</td><td>54.00</td><td>-14.82</td><td>47.88</td><td>38.98</td><td>18.48</td><td>66.00</td><td>0.00</td><td>--</td><td>Average</td></tr><tr><td>7</td><td>14498.00</td><td>48.81</td><td>74.00</td><td>-25.19</td><td>54.32</td><td>40.29</td><td>20.00</td><td>65.98</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>8</td><td>14498.00</td><td>48.15</td><td>54.00</td><td>-13.85</td><td>45.66</td><td>40.29</td><td>20.00</td><td>65.98</td><td>0.00</td><td>--</td><td>Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor				1	2380.00	37.15	74.00	-36.85	69.15	27.18	7.66	66.84	0.00	--	Peak	2	2853.00	38.15	74.00	-35.85	67.55	28.58	8.48	66.38	0.00	--	Peak	3	4247.00	42.39	74.00	-31.61	67.68	31.29	16.32	66.50	0.00	--	Peak	4	8412.00	45.87	74.00	-28.13	68.61	37.85	14.82	66.61	0.00	--	Peak	5	12475.00	49.51	74.00	-24.49	58.61	38.98	15.48	66.00	0.00	--	Peak	6	12475.00	39.18	54.00	-14.82	47.88	38.98	18.48	66.00	0.00	--	Average	7	14498.00	48.81	74.00	-25.19	54.32	40.29	20.00	65.98	0.00	--	Peak	8	14498.00	48.15	54.00	-13.85	45.66	40.29	20.00	65.98	0.00	--	Average
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																																																																	
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7	14464.00	49.48	74.00	-24.52	59.16	40.28	20.00	65.94	0.00	--	Peak																																																																																																																																																																																																																															
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1	2380.00	37.15	74.00	-36.85	69.15	27.18	7.66	66.84	0.00	--	Peak																																																																																																																																																																																																																															
2	2853.00	38.15	74.00	-35.85	67.55	28.58	8.48	66.38	0.00	--	Peak																																																																																																																																																																																																																															
3	4247.00	42.39	74.00	-31.61	67.68	31.29	16.32	66.50	0.00	--	Peak																																																																																																																																																																																																																															
4	8412.00	45.87	74.00	-28.13	68.61	37.85	14.82	66.61	0.00	--	Peak																																																																																																																																																																																																																															
5	12475.00	49.51	74.00	-24.49	58.61	38.98	15.48	66.00	0.00	--	Peak																																																																																																																																																																																																																															
6	12475.00	39.18	54.00	-14.82	47.88	38.98	18.48	66.00	0.00	--	Average																																																																																																																																																																																																																															
7	14498.00	48.81	74.00	-25.19	54.32	40.29	20.00	65.98	0.00	--	Peak																																																																																																																																																																																																																															
8	14498.00	48.15	54.00	-13.85	45.66	40.29	20.00	65.98	0.00	--	Average																																																																																																																																																																																																																															



Emission below 1GHz

24GHz

24GHz

24GHz

Test frequency :24.06GHz_LF

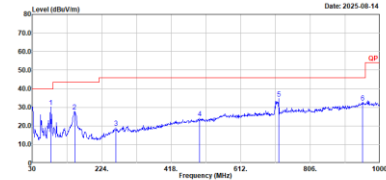
Horizontal

Vertical

QP /
Peak

Level (dBuV/m)

Date: 2025-08-14

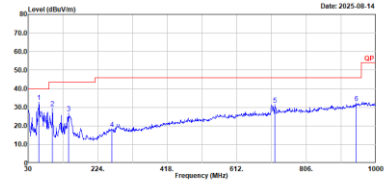


Site : 05CH11-0V
Condition: QP 3m E1106_37859881_241127 HORIZONTAL
Mode : 1
Setting : 1

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		
Freq	Level	Line Margin	Level	Factor	Loss Factor	Factor					
1	81.41	38.89	48.88	-6.91	47.29	13.78	1.38	32.33	0.95	--	Peak
2	148.34	27.89	43.58	-15.01	48.91	17.42	1.73	32.26	0.89	--	Peak
3	203.75	18.98	40.88	-17.58	28.56	28.14	2.16	32.28	0.14	--	Peak
4	497.54	24.29	46.88	-21.71	29.18	24.18	3.11	32.28	0.12	--	Peak
5	737.75	34.68	46.88	-11.32	28.64	27.28	3.72	32.13	0.17	--	Peak
6	951.59	32.68	46.88	-13.32	28.83	31.04	4.28	38.68	0.21	--	Peak

Level (dBuV/m)

Date: 2025-08-14



Site : 05CH11-0V
Condition: QP 3m E1106_37859881_241127 VERTICAL
Mode : 1
Setting : 1

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		
Freq	Level	Line Margin	Level	Factor	Loss Factor	Factor					
1	68.87	33.64	48.88	-6.96	52.88	12.89	1.12	32.32	0.87	--	Peak
2	97.98	29.48	43.58	-14.62	44.36	15.96	1.43	32.31	0.84	--	Peak
3	142.52	26.92	43.58	-16.58	39.69	17.12	1.78	32.26	0.87	--	Peak
4	262.88	18.41	46.88	-27.59	28.89	28.32	2.26	32.28	0.14	--	Peak
5	738.78	31.48	46.88	-14.68	32.31	27.33	3.73	32.13	0.17	--	Peak
6	944.71	32.28	46.88	-13.88	27.99	38.68	4.27	38.95	0.21	--	Peak



24GHz	24GHz																																																																																																																																																																													
	Test frequency :24.15GHz_LF																																																																																																																																																																													
	Horizontal	Vertical																																																																																																																																																																												
QP / Peak	Level (dBV/m) Date: 2025-08-15 Site : 80CH1-MY Condition: QP 3m E1106_37855881_241127 HORIZONTAL Mode : 2 Setting : 1 <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><td>1</td><td>69.87</td><td>31.08</td><td>49.08</td><td>-8.49</td><td>58.54</td><td>12.00</td><td>1.12</td><td>32.32</td><td>0.07</td><td>-- Peak</td></tr><tr><td>2</td><td>149.34</td><td>27.59</td><td>43.58</td><td>-15.91</td><td>48.61</td><td>17.42</td><td>1.73</td><td>32.26</td><td>0.09</td><td>-- Peak</td></tr><tr><td>3</td><td>239.85</td><td>15.22</td><td>46.08</td><td>-26.79</td><td>29.12</td><td>19.91</td><td>2.34</td><td>32.28</td><td>0.15</td><td>-- Peak</td></tr><tr><td>4</td><td>584.33</td><td>23.73</td><td>46.08</td><td>-22.27</td><td>28.44</td><td>24.24</td><td>3.13</td><td>32.29</td><td>0.12</td><td>-- Peak</td></tr><tr><td>5</td><td>757.58</td><td>28.88</td><td>46.08</td><td>-17.12</td><td>28.56</td><td>28.38</td><td>3.81</td><td>32.07</td><td>0.20</td><td>-- Peak</td></tr><tr><td>6</td><td>959.26</td><td>33.23</td><td>46.08</td><td>-12.77</td><td>28.25</td><td>31.25</td><td>4.38</td><td>30.69</td><td>0.23</td><td>-- Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor					1	69.87	31.08	49.08	-8.49	58.54	12.00	1.12	32.32	0.07	-- Peak	2	149.34	27.59	43.58	-15.91	48.61	17.42	1.73	32.26	0.09	-- Peak	3	239.85	15.22	46.08	-26.79	29.12	19.91	2.34	32.28	0.15	-- Peak	4	584.33	23.73	46.08	-22.27	28.44	24.24	3.13	32.29	0.12	-- Peak	5	757.58	28.88	46.08	-17.12	28.56	28.38	3.81	32.07	0.20	-- Peak	6	959.26	33.23	46.08	-12.77	28.25	31.25	4.38	30.69	0.23	-- Peak	Level (dBV/m) Date: 2025-08-14 Site : 80CH1-MY Condition: QP 3m E1106_37855881_241127 VERTICAL Mode : 2 Setting : 1 <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><td>1</td><td>69.87</td><td>31.05</td><td>49.08</td><td>-8.15</td><td>58.89</td><td>12.89</td><td>1.12</td><td>32.32</td><td>0.07</td><td>-- Peak</td></tr><tr><td>2</td><td>97.98</td><td>29.47</td><td>43.58</td><td>-14.63</td><td>44.35</td><td>15.96</td><td>1.43</td><td>32.31</td><td>0.04</td><td>-- Peak</td></tr><tr><td>3</td><td>203.77</td><td>19.18</td><td>46.08</td><td>-26.90</td><td>29.78</td><td>20.14</td><td>2.26</td><td>32.28</td><td>0.14</td><td>-- Peak</td></tr><tr><td>4</td><td>582.39</td><td>23.79</td><td>46.08</td><td>-22.39</td><td>28.45</td><td>24.29</td><td>3.13</td><td>32.28</td><td>0.12</td><td>-- Peak</td></tr><tr><td>5</td><td>753.62</td><td>28.83</td><td>46.08</td><td>-17.17</td><td>28.56</td><td>28.36</td><td>3.89</td><td>32.09</td><td>0.20</td><td>-- Peak</td></tr><tr><td>6</td><td>954.41</td><td>32.68</td><td>46.08</td><td>-13.40</td><td>27.84</td><td>31.18</td><td>4.29</td><td>30.85</td><td>0.22</td><td>-- Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor					1	69.87	31.05	49.08	-8.15	58.89	12.89	1.12	32.32	0.07	-- Peak	2	97.98	29.47	43.58	-14.63	44.35	15.96	1.43	32.31	0.04	-- Peak	3	203.77	19.18	46.08	-26.90	29.78	20.14	2.26	32.28	0.14	-- Peak	4	582.39	23.79	46.08	-22.39	28.45	24.29	3.13	32.28	0.12	-- Peak	5	753.62	28.83	46.08	-17.17	28.56	28.36	3.89	32.09	0.20	-- Peak	6	954.41	32.68	46.08	-13.40	27.84	31.18	4.29	30.85	0.22	-- Peak
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																				
Freq	Level	Line Margin	Level Factor	Loss Factor	Factor																																																																																																																																																																									
1	69.87	31.08	49.08	-8.49	58.54	12.00	1.12	32.32	0.07	-- Peak																																																																																																																																																																				
2	149.34	27.59	43.58	-15.91	48.61	17.42	1.73	32.26	0.09	-- Peak																																																																																																																																																																				
3	239.85	15.22	46.08	-26.79	29.12	19.91	2.34	32.28	0.15	-- Peak																																																																																																																																																																				
4	584.33	23.73	46.08	-22.27	28.44	24.24	3.13	32.29	0.12	-- Peak																																																																																																																																																																				
5	757.58	28.88	46.08	-17.12	28.56	28.38	3.81	32.07	0.20	-- Peak																																																																																																																																																																				
6	959.26	33.23	46.08	-12.77	28.25	31.25	4.38	30.69	0.23	-- Peak																																																																																																																																																																				
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																					
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1	69.87	31.05	49.08	-8.15	58.89	12.89	1.12	32.32	0.07	-- Peak																																																																																																																																																																				
2	97.98	29.47	43.58	-14.63	44.35	15.96	1.43	32.31	0.04	-- Peak																																																																																																																																																																				
3	203.77	19.18	46.08	-26.90	29.78	20.14	2.26	32.28	0.14	-- Peak																																																																																																																																																																				
4	582.39	23.79	46.08	-22.39	28.45	24.29	3.13	32.28	0.12	-- Peak																																																																																																																																																																				
5	753.62	28.83	46.08	-17.17	28.56	28.36	3.89	32.09	0.20	-- Peak																																																																																																																																																																				
6	954.41	32.68	46.08	-13.40	27.84	31.18	4.29	30.85	0.22	-- Peak																																																																																																																																																																				



24GHz	24GHz																																																																																																																																																																																																							
	Test frequency :24.24GHz_LF																																																																																																																																																																																																							
	Horizontal	Vertical																																																																																																																																																																																																						
QP / Peak	Level (dBV/m) Date: 2025-08-14 Site : 80CH1-0V Condition: QP 3m E1106_37859881_241127 HORIZONTAL Mode : 3 Setting : <table><tr><th>Line</th><th>Level</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th></tr><tr><td>1</td><td>68.87</td><td>31.33</td><td>48.88</td><td>-8.27</td><td>58.57</td><td>12.89</td><td>1.12</td><td>32.32</td><td>8.87</td><td>-- Peak</td></tr><tr><td>2</td><td>81.41</td><td>28.27</td><td>48.88</td><td>-13.73</td><td>43.47</td><td>13.78</td><td>1.38</td><td>32.33</td><td>8.85</td><td>-- Peak</td></tr><tr><td>3</td><td>148.38</td><td>27.68</td><td>43.58</td><td>-13.82</td><td>48.78</td><td>17.42</td><td>1.19</td><td>32.28</td><td>8.89</td><td>-- Peak</td></tr><tr><td>4</td><td>499.48</td><td>24.33</td><td>46.88</td><td>-21.67</td><td>29.12</td><td>24.12</td><td>3.12</td><td>32.28</td><td>8.12</td><td>-- Peak</td></tr><tr><td>5</td><td>738.78</td><td>38.32</td><td>46.88</td><td>-15.68</td><td>31.23</td><td>27.33</td><td>3.72</td><td>32.13</td><td>8.17</td><td>-- Peak</td></tr><tr><td>6</td><td>959.28</td><td>32.28</td><td>46.88</td><td>-13.74</td><td>27.28</td><td>31.25</td><td>4.38</td><td>38.88</td><td>8.23</td><td>-- Peak</td></tr></table>	Line	Level	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	deg	1	68.87	31.33	48.88	-8.27	58.57	12.89	1.12	32.32	8.87	-- Peak	2	81.41	28.27	48.88	-13.73	43.47	13.78	1.38	32.33	8.85	-- Peak	3	148.38	27.68	43.58	-13.82	48.78	17.42	1.19	32.28	8.89	-- Peak	4	499.48	24.33	46.88	-21.67	29.12	24.12	3.12	32.28	8.12	-- Peak	5	738.78	38.32	46.88	-15.68	31.23	27.33	3.72	32.13	8.17	-- Peak	6	959.28	32.28	46.88	-13.74	27.28	31.25	4.38	38.88	8.23	-- Peak	Level (dBV/m) Date: 2025-08-14 Site : 80CH1-0V Condition: QP 3m E1106_37859881_241127 VERTICAL Mode : 3 Setting : <table><tr><th>Line</th><th>Level</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th></tr><tr><td>1</td><td>68.87</td><td>31.36</td><td>48.88</td><td>-6.14</td><td>52.98</td><td>12.89</td><td>1.12</td><td>32.32</td><td>8.87</td><td>-- Peak</td></tr><tr><td>2</td><td>97.98</td><td>29.82</td><td>43.58</td><td>-13.68</td><td>44.78</td><td>15.96</td><td>1.43</td><td>32.31</td><td>8.84</td><td>-- Peak</td></tr><tr><td>3</td><td>139.61</td><td>27.92</td><td>43.58</td><td>-15.58</td><td>48.83</td><td>17.61</td><td>1.68</td><td>32.26</td><td>8.88</td><td>-- Peak</td></tr><tr><td>4</td><td>499.48</td><td>24.11</td><td>46.88</td><td>-21.89</td><td>28.95</td><td>24.12</td><td>3.12</td><td>32.28</td><td>8.12</td><td>-- Peak</td></tr><tr><td>5</td><td>751.68</td><td>29.58</td><td>46.88</td><td>-16.42</td><td>29.33</td><td>28.35</td><td>3.79</td><td>32.89</td><td>8.20</td><td>-- Peak</td></tr><tr><td>6</td><td>944.71</td><td>32.85</td><td>46.88</td><td>-13.95</td><td>27.84</td><td>38.88</td><td>4.27</td><td>38.95</td><td>8.21</td><td>-- Peak</td></tr></table>	Line	Level	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	deg	1	68.87	31.36	48.88	-6.14	52.98	12.89	1.12	32.32	8.87	-- Peak	2	97.98	29.82	43.58	-13.68	44.78	15.96	1.43	32.31	8.84	-- Peak	3	139.61	27.92	43.58	-15.58	48.83	17.61	1.68	32.26	8.88	-- Peak	4	499.48	24.11	46.88	-21.89	28.95	24.12	3.12	32.28	8.12	-- Peak	5	751.68	29.58	46.88	-16.42	29.33	28.35	3.79	32.89	8.20	-- Peak	6	944.71	32.85	46.88	-13.95	27.84	38.88	4.27	38.95	8.21	-- Peak
Line	Level	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																														
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																																																																																																
MHz	dBuV/m	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	deg																																																																																																																																																																																														
1	68.87	31.33	48.88	-8.27	58.57	12.89	1.12	32.32	8.87	-- Peak																																																																																																																																																																																														
2	81.41	28.27	48.88	-13.73	43.47	13.78	1.38	32.33	8.85	-- Peak																																																																																																																																																																																														
3	148.38	27.68	43.58	-13.82	48.78	17.42	1.19	32.28	8.89	-- Peak																																																																																																																																																																																														
4	499.48	24.33	46.88	-21.67	29.12	24.12	3.12	32.28	8.12	-- Peak																																																																																																																																																																																														
5	738.78	38.32	46.88	-15.68	31.23	27.33	3.72	32.13	8.17	-- Peak																																																																																																																																																																																														
6	959.28	32.28	46.88	-13.74	27.28	31.25	4.38	38.88	8.23	-- Peak																																																																																																																																																																																														
Line	Level	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																														
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MHz	dBuV/m	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	deg																																																																																																																																																																																														
1	68.87	31.36	48.88	-6.14	52.98	12.89	1.12	32.32	8.87	-- Peak																																																																																																																																																																																														
2	97.98	29.82	43.58	-13.68	44.78	15.96	1.43	32.31	8.84	-- Peak																																																																																																																																																																																														
3	139.61	27.92	43.58	-15.58	48.83	17.61	1.68	32.26	8.88	-- Peak																																																																																																																																																																																														
4	499.48	24.11	46.88	-21.89	28.95	24.12	3.12	32.28	8.12	-- Peak																																																																																																																																																																																														
5	751.68	29.58	46.88	-16.42	29.33	28.35	3.79	32.89	8.20	-- Peak																																																																																																																																																																																														
6	944.71	32.85	46.88	-13.95	27.84	38.88	4.27	38.95	8.21	-- Peak																																																																																																																																																																																														