

FCC PART 15E TEST REPORT FOR CERTIFICATION

On Behalf of

ZAGG Inc.

Smart Shield Machine

Model Number: ISOD-ML2

FCC ID: QTG-ISODML2

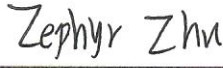
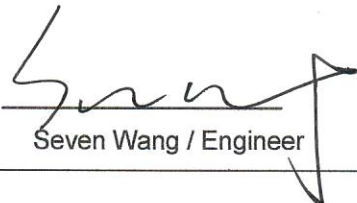
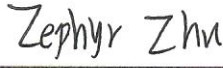
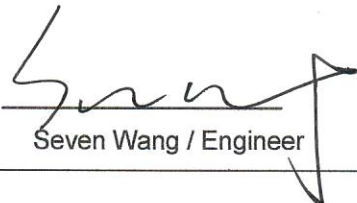
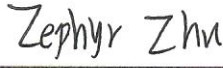
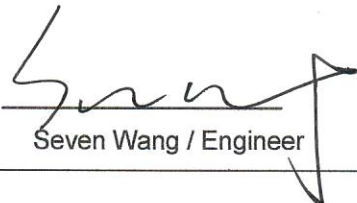
Applicant :	ZAGG Inc.
Address:	910 West Legacy Center Way, Midvale, UT 84047, USA
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Tel: 86-769-83081888-808	

Report Number:	ESTE-R2412239
Date of Test:	Sep. 09, 2024 ~ Dec. 26, 2024
Date of Report:	Dec. 30, 2024

TABLE OF CONTENTS

Description	Page
TEST REPORT VERIFICATION.....	3
1. GENERAL INFORMATION.....	5
1.1. Description of Device (EUT).....	5
1.2. The antenna information for EUT.....	7
1.3. Information of RF Cable.....	7
2. SUMMARY OF TEST.....	8
2.1. Summary of test result.....	8
2.2. Test Facilities.....	9
2.3. Measurement uncertainty for EST Technology Co., Ltd.....	10
2.4. Assistant equipment used for test.....	11
2.5. Block Diagram.....	11
2.6. Test Mode.....	12
2.7. Channel List.....	14
2.8. Power Setting of Test Software.....	15
2.9. Duty Cycle of Test Signal.....	16
2.10. Test Equipment List.....	17
3. 6dB BANDWIDTH & 26dB BANDWIDTH & 99% OCCUPIED BANDWIDTH.....	19
3.1. Limit.....	19
3.2. Test Setup.....	19
3.3. Spectrum Analyzer Setting.....	19
3.4. Test Procedure.....	20
3.5. Test Result.....	20
4. MAXIMUM CONDUCTED OUTPUT POWER.....	21
4.1. Limit.....	21
4.2. Test Setup.....	21
4.3. Spectrum Analyzer Setting.....	22
4.4. Test Procedure.....	22
4.5. Test Result.....	22
5. PEAK POWER SPECTRAL DENSITY.....	23
5.1. Limit.....	23
5.2. Test Setup.....	23
5.3. Spectrum Analyzer Setting.....	23
5.4. Test Procedure.....	23
5.5. Test Result.....	24
6. UNWANTED EMISSIONS AND BAND EDGE.....	25
6.1. Limit.....	25
6.2. Test Setup.....	26
6.3. Spectrum Analyzer Setting.....	27
6.4. Test Procedure.....	28
6.5. Test Result.....	29
7. FREQUENCY STABILITY.....	62
7.1. Limit.....	62

7.2. Test Setup.....	62
7.3. Spectrum Analyzer Setting.....	62
7.4. Test Procedure.....	63
7.5. Test Result.....	63
8. AC POWER LINE CONDUCTED EMISSIONS.....	64
8.1. Limit.....	64
8.2. Test Setup.....	64
8.3. Spectrum Analyzer Setting.....	64
8.4. Test Procedure.....	64
8.5. Test Result.....	66
9. ANTENNA REQUIREMENTS.....	68
9.1. Limit.....	68
9.2. Test Result.....	68
10. APPENDIX	69
11. TEST SETUP PHOTO.....	220
12. EUT PHOTO.....	222

Applicant: Address:	ZAGG Inc. 910 West Legacy Center Way, Midvale, UT 84047, USA														
Manufacturer: Address:	ZAGG Inc. 910 West Legacy Center Way, Midvale, UT 84047, USA														
E.U.T:	Smart Shield Machine														
Model Number:	ISOD-ML2														
Power Supply:	DC 24V/2.7A														
Trade Name:	ZAGG	Serial No.:	-----												
Date of Receipt:	Sep. 09, 2024	Date of Test:	Sep. 09, 2024 ~ Dec. 26, 2024												
Test Specification:	FCC Part 15 Subpart E 15.407 ANSI C63.10:2013 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01														
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart E requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Dec. 30, 2024														
<table border="0"><tr><td>Prepared by:</td><td>Reviewed by:</td><td colspan="2">Approved by:</td></tr><tr><td></td><td></td><td colspan="2"></td></tr><tr><td>Zephyr Zhu / Assistant</td><td>Seven Wang / Engineer</td><td colspan="2">Iceman Hu / Manager</td></tr></table>				Prepared by:	Reviewed by:	Approved by:						Zephyr Zhu / Assistant	Seven Wang / Engineer	Iceman Hu / Manager	
Prepared by:	Reviewed by:	Approved by:													
															
Zephyr Zhu / Assistant	Seven Wang / Engineer	Iceman Hu / Manager													
Other Aspects:	None.														
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested															
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.															

1.GENERAL INFORMATION

1.1.Description of Device (EUT)

FCC ID	:	QTG-ISODML2
Product Name	:	Smart Shield Machine
Model Number	:	ISOD-ML2
Software Version	:	N/A
Hardware Version	:	N/A
Operation frequency	:	U-NII-1: 5150 MHz~5250 MHz U-NII-2A: 5250 MHz~5350 MHz U-NII-2C: 5470 MHz~5725 MHz U-NII-3: 5725 MHz~5850 MHz
Number of channel	:	U-NII-1: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels; IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels; U-NII-2A: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels; IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels; U-NII-2C: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 11 Channels; IEEE 802.11n HT40 / ac VHT40 / ax HE40: 5 Channels; U-NII-3: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 5 Channels; IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels;
Modulation	:	OFDM; OFDMA
Transmit Data Rate	:	IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps; IEEE 802.11n: up to 72.2 Mbps IEEE 802.11ac: up to 200 Mbps IEEE 802.11ax: up to 287 Mbps
Channels Spacing	:	IEEE 802.11a: 20MHz; IEEE 802.11n HT20: 20MHz; IEEE 802.11n HT40: 40MHz; IEEE 802.11ac VHT20: 20MHz; IEEE 802.11ac VHT40: 40MHz; IEEE 802.11 ax HE20: 20MHz IEEE 802.11 ax HE40: 40MHz

Transmit Power	:	U-NII-1	IEEE 802.11a: 11.77dBm IEEE 802.11n HT20: 12.79dBm IEEE 802.11n HT40: 12.63dBm IEEE 802.11ac VHT20: 9.97dBm IEEE 802.11ac VHT40: 11.01dBm IEEE 802.11ax HE20: 10.35dBm IEEE 802.11ax HE40: 11.14dBm
		U-NII-2A	IEEE 802.11a: 11.79dBm IEEE 802.11n HT20: 12.72dBm IEEE 802.11n HT40: 12.12dBm IEEE 802.11ac VHT20: 10.26dBm IEEE 802.11ac VHT40: 10.58dBm IEEE 802.11ax HE20: 10.04dBm IEEE 802.11ax HE40: 9.44dBm
		U-NII-2C	IEEE 802.11a: 13.27dBm IEEE 802.11n HT20: 13.21dBm IEEE 802.11n HT40: 13.58dBm IEEE 802.11ac VHT20: 11.11dBm IEEE 802.11ac VHT40: 11.31dBm IEEE 802.11ax HE20: 11.40dBm IEEE 802.11ax HE40: 11.76dBm
		U-NII-3	IEEE 802.11a: 12.44dBm IEEE 802.11n HT20: 12.07dBm IEEE 802.11n HT40: 11.94dBm IEEE 802.11ac VHT20: 9.89dBm IEEE 802.11ac VHT40: 9.62dBm IEEE 802.11ax HE20: 9.94dBm IEEE 802.11ax HE40: 10.09dBm
Sample Type	:	Prototype production	

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2.The antenna information for EUT

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	--	-	Internal	-	2.72

Note:

1.The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

2.The test results of this report only apply to the sample as received.

1.3.Information of RF Cable

Cable Loss(dB)	Provided by
1.0	ZAGG Inc.

Note:

1.The customer declared the loss value of the RF Cable. and the test results of this report only apply to the sample as received.

2.The laboratory is not responsible for the accuracy of the cable loss.

2.SUMMARY OF TEST

2.1.Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	6dB Bandwidth & 26dB Bandwidth & 99% Occupied Bandwidth	15.407(a) 15.407(e)	PASS
2	Maximum Conducted Output Power	15.407(a)	PASS
3	Peak Power Spectral Density	15.407(a)	PASS
4	Unwanted Emissions and Band Edge	15.205 15.209 15.407(b)	PASS
5	Frequency Stability	15.407(g)	PASS
6	AC Power Line Conducted Emissions	15.207 15.407(b)(9)	PASS
7	Antenna Requirement	15.203	PASS

Note:“N/A” denotes test is not applicable in this test report.

2.2.Test Facilities

EMC Lab : Accredited by CNAS, CHINA
Registration No.: L5288
This Accreditation is valid until: November 12, 2029

Recognized by FCC, USA
Designation Number: CN1215
This Recognition is valid until: January 31, 2026

Accredited by A2LA, USA
Registration No.: 4366.01
This Accreditation is valid until: January 31, 2026

Recognized by Industry Canada
CAB identifier No.: CN0035
This Recognition is valid until: January 31, 2026

Recognized by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Recognition is valid until: Apr. 19, 2026

Recognized by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Recognized by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3.Measurement uncertainty for EST Technology Co., Ltd.

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for spurious emissions test (Below 30MHz)	±1.62 dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for spurious emissions test (18GHz to 40GHz)	4.67
Uncertainty for radio frequency	7×10-8
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB
Temperature	±0.6°C
Humidity	±4.0 %
Volatage DC	±1.0%
Volatage (AC, <10KHz)	±1.5%

Note: This uncertainty represents an expanded uncertainty expressed at approximately The 95% confidence level using a coverage factor of k=2.

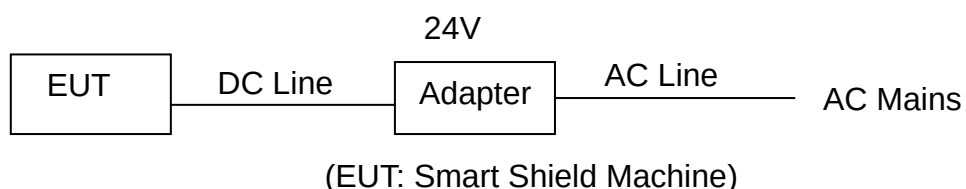
2.4.Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.0m	DC Cable
1	NO	NO	1.5m	AC Cable

2.5.Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground.



2.6.Test Mode

Pre-scan has been combined all possible modulations and data rates to determine the worst case test mode,the worst case test mode was selected for the final test as listed below.

Test Item	Test Mode	Channel	Modulation	Data rate
6dB Bandwidth	IEEE 802.11a	149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	151/159	OFDM	MCS0
	IEEE 802.11ax HE20	149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	151/159	OFDMA	MCS0
26dB Bandwidth	IEEE 802.11a	36/40/48/52/60/64/100/116/140	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134	OFDM	MCS0
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/118/134	OFDMA	MCS0
99% Occupied Bandwidth	IEEE 802.11a	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/ 159	OFDM	MCS0
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/118/134	OFDMA	MCS0

Maximum Conducted Output Power	IEEE 802.11a	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/ 159	OFDM	MCS0
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/118/134/151/ 159	OFDMA	MCS0
Peak Power Spectral Density	IEEE 802.11a	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/ 159	OFDM	MCS0
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/118/134/151/ 159	OFDMA	MCS0
Unwanted Emissions and Band Edge(Above 1GHz)	IEEE 802.11a	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/ 159	OFDM	MCS0
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/118/134/151/ 159	OFDMA	MCS0
Unwanted Emissions Below 1GHz	IEEE 802.11a	100	OFDM	6Mbps
Frequency Stability	Unmodulation	36/64/100/149	N/A	N/A
AC Power Line Conducted Emissions	IEEE 802.11a	100	OFDM	6Mbps

Note: In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7.Channel List

Band	Mode	Channel	Frequency (MHz)
U-NII-1	IEEE 802.11a & n HT20 & ac VHT20 & ax HE20	36	5180
		40	5200
		44	5220
		48	5240
	IEEE 802.11n HT40 & ac VHT40 & ax HE40	38	5190
		46	5230
U-NII-2A	IEEE 802.11a & n HT20 & ac VHT20& ax HE20	52	5260
		56	5280
		60	5300
		64	5320
	IEEE 802.11n HT40 & ac VHT40& ax HE40	54	5270
		62	5310
U-NII-2C	IEEE 802.11a & n HT20 & ac VHT20& ax HE20	100	5500
		104	5520
		108	5540
		112	5560
		116	5580
		120	5600
		124	5620
		128	5640
		132	5660
		136	5680
		140	5700
	IEEE 802.11n HT40 & ac VHT40& ax HE40	102	5510
		110	5550
		118	5590
		126	5630
U-NII-3	IEEE 802.11a & n HT20 & ac VHT20& ax HE20	149	5745
		153	5765
		157	5785
		161	5805
		165	5825
	IEEE 802.11n HT40 & ac VHT40& ax HE40	151	5755
		159	5795

2.8.Power Setting of Test Software

Software Name	CMD		
U-NII-1			
Frequency(MHz)	5180	5200	5240
IEEE 802.11a Setting	15	15	15
IEEE 802.11n HT20 Setting	15	15	15
IEEE 802.11ac VHT20 Setting	0	0	0
IEEE 802.11ax HE20 Setting	17	17	17
Frequency(MHz)	5190	5230	
IEEE 802.11n HT40 Setting	15	15	
IEEE 802.11ac VHT40 Setting	17	17	
IEEE 802.11ax HE40 Setting	17	17	
U-NII-2A			
Frequency(MHz)	5260	5300	5320
IEEE 802.11a Setting	15	15	15
IEEE 802.11n HT20 Setting	15	15	15
IEEE 802.11ac VHT20 Setting	0	0	0
IEEE 802.11ax HE20 Setting	17	17	17
Frequency(MHz)	5270	5310	
IEEE 802.11n HT40 Setting	15	15	
IEEE 802.11ac VHT40 Setting	17	17	
IEEE 802.11ax HE40 Setting	17	17	
U-NII-2C			
Frequency(MHz)	5500	5580	5700
IEEE 802.11a Setting	15	15	15
IEEE 802.11n HT20 Setting	15	15	15
IEEE 802.11ac VHT20 Setting	0	0	0
IEEE 802.11ax HE20 Setting	17	17	17
Frequency(MHz)	5510	5550	5670
IEEE 802.11n HT40 Setting	15	15	15
IEEE 802.11ac VHT40 Setting	17	17	17
IEEE 802.11ax HE40 Setting	17	17	17

U-NII-3			
Frequency(MHz)	5745	5785	5825
IEEE 802.11a Setting	15	15	15
IEEE 802.11n HT20 Setting	15	15	15
IEEE 802.11ac VHT20 Setting	17	17	17
IEEE 802.11ax HE20 Setting	17	17	17
Frequency(MHz)	5755	5795	
IEEE 802.11n HT40 Setting	15	15	
IEEE 802.11ac VHT40 Setting	17	17	
IEEE 802.11ax HE40 Setting	17	17	

Note: This information is provided by the applicant.

2.9.Duty Cycle of Test Signal

Refer to section 10: Appendix B

Note:

1. Duty Cycle=On Time/Total Time×100%.
2. Duty Factor=10×LOG (1/Duty Cycle).
3. If duty cycle <98 %, the conducted average output power and average power spectral density should be add duty factor.
4. If duty cycle ≥98 %,the EUT is consider to be transmitting continuously,the conducted average output power and average power spectral density no need to add duty factor.
5. The on-time time is transmission duration (T).
6. The VBW Setting is use for RMS measurement in Unwanted Emissions and Band Edge (Above 1GHz) Test.

2.10. Test Equipment List

For conducted emission test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESRP3	EST-E070	LISAI	June 11,24	June 10,25
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E048	LISAI	June 11,24	June 10,25
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 11,24	June 10,25
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	EST-E054	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 11,24	June 10,25
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	EST-E144	LISAI	June 11,24	June 10,25
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 11,24	June 10,25
Low Noise Amplifier	RF	TRLA-010180 G45N	EST-E142	LISAI	June 11,24	June 10,25
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

For connect EUT antenna terminal test

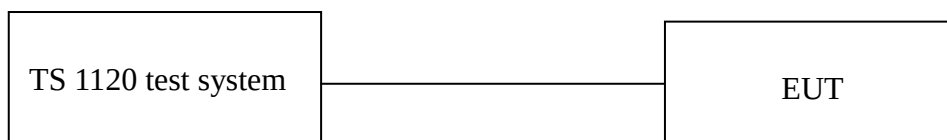
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/	/
Test Software	Tonscend	TS1120-3	3.3.38	/	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	LISAI	June 11,24	June 10,25
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	LISAI	June 11,24	June 10,25

3.6dB BANDWIDTH &26dB BANDWIDTH & 99% OCCUPIED BANDWIDTH

3.1.Limit

Band	Frequency (MHz)	Test Item	Limit
U-NII-1	5150-5250	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2A	5250-5350	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2C	5470-5725	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-3	5725-5850	6dB Bandwidth&99% Occupied Bandwidth	6dB Bandwidth≥500KHz

3.2.Test Setup



3.3.Spectrum Analyzer Setting

6dB Bandwidth	
Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

26dB Bandwidth	
Spectrum Parameters	Setting
RBW	approximately 1% of the emission bandwidth
VBW	>RBW
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

99% Occupied Bandwidth	
Spectrum Parameters	Setting
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Span	between 1.5 times and 5.0 times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

3.4.Test Procedure

For 26dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is 26 dB down from the peak of the emission.Compare this with the RBW setting of the instrument.
Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 6dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 99% Occupied Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the 99% power bandwidth function to measure bandwidth.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

3.5.Test Result

Refer to section 10: Appendix A3/A1/A2

4.MAXIMUM CONDUCTED OUTPUT POWER

4.1.Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	1W(30dBm) (Max. e.i.r.p $\leq$ 125mW at any elevation angle above 30 degrees as measured from the horizon)
	Indoor Access Point	1W(30dBm)
	Fixed point-to-point Access Point	1W(30dBm)
	Mobile and Portable Client Device	250mW(23.98dBm)
U-NII-2A	All Device	250mW(23.98dBm) or 11dBm+10 log B,Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-2C	All Device	250mW(23.98dBm) or 11dBm+10 log B,Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-3	All Device	1W(30dBm)

Note: For the Band U-NII-2A and U-NII-2C,the maximum conducted output power limit calculate result refer to section 3.5.

4.2.Test Setup



4.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz
VBW	3MHz
Span	40MHz(20MHz Bandwidth mode) 80MHz(40MHz Bandwidth mode) 160MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	RMS
Trace Mode	Max Hold

4.4.Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power.
- Use the channel power function to measure maximum peak output power, allow trace to stabilize, save test pictures.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

4.5.Test Result

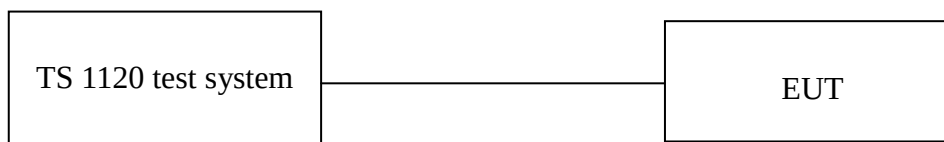
Refer to section 10: Appendix C

5. PEAK POWER SPECTRAL DENSITY

5.1. Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	17dBm/MHz
	Indoor Access Point	17dBm/MHz
	Fixed point-to-point Access Point	17dBm/MHz
	Mobile and Portable Client Device	11dBm/MHz
U-NII-2A	All Device	11dBm/MHz
U-NII-2C	All Device	11dBm/MHz
U-NII-3	All Device	30dBm/500KHz

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz(For U-NII-1&U-NII-2A&U-NII-2C) 500KHz(For U-NII-3)
VBW	3MHz(For U-NII-1&U-NII-2A&U-NII-2C) 2MHz(For U-NII-3)
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	$\geq 2 \times \text{SPAN} / \text{RBW}$
Detector	RMS(power averaging)
Trace Average	≥ 100 traces

5.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the average of the emission.
- If the duty cycle of test signal $< 98\%$, the result = max measured value + $10 \times \log(1/\text{duty cycle})$;
If the duty cycle of test signal $\geq 98\%$, the result = max measured value.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

5.5.Test Result

Refer to section 10: Appendix D

6.UNWANTED EMISSIONS AND BAND EDGE

6.1.Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

Note:

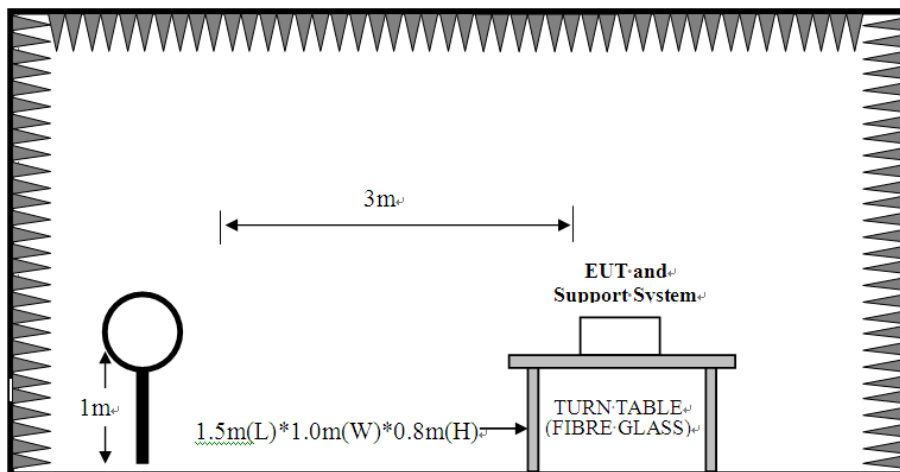
1. $\text{dB}\mu\text{V}/\text{m} = 20\text{Log}(\mu\text{V}/\text{m})$
2. Above 1GHz the formula is used to convert the EIRP to field strength

$$E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log (d[\text{m}]) + 104.77$$

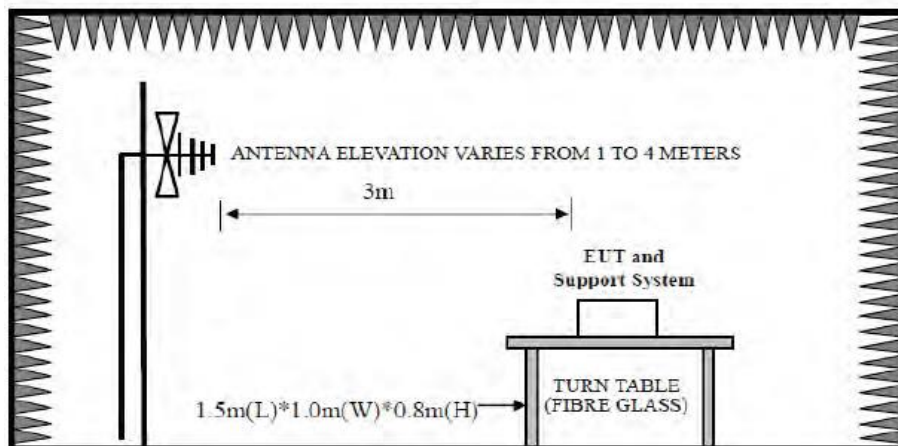
where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.
for example, 3m field strength($\text{dB}\mu\text{V}/\text{m}$)= $\text{EIRP}-20\log(3)+104.77=\text{EIRP}+95.2$

6.2.Test Setup

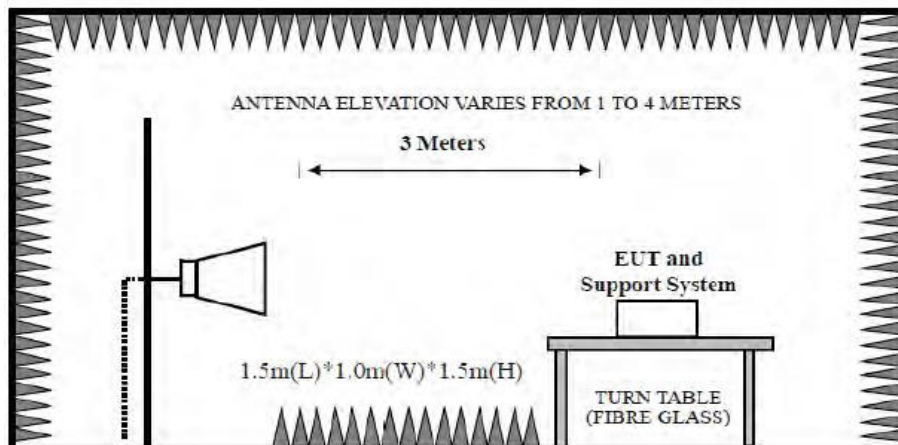
9kHz~30MHz



30~1000MHz



Above 1GHz



6.3.Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note : For 9KHz-90KHz&110KHz-150KHz,the detector is average,other frequency is CISPR QP detector.

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150KHz-490KHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle≥98%,VBW=10Hz Duty cycle<98%,VBW≥1/T Video bandwidth mode=RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	

Detector	PEAK
Trace Mode	Max Hold

Note : T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.7 for the on-time time.

6.4.Test Procedure

- EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- Spectrum analyzer setting parameters in accordance with section 6.3.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.
- IEEE 802.11a, IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40, IEEE 802.11ax HE20, IEEE 802.11ax HE40 all have been tested, only worst case 802.11ac VHT20 is recorded.

6.5.Test Result

Radiated Emissions Below 1GHz

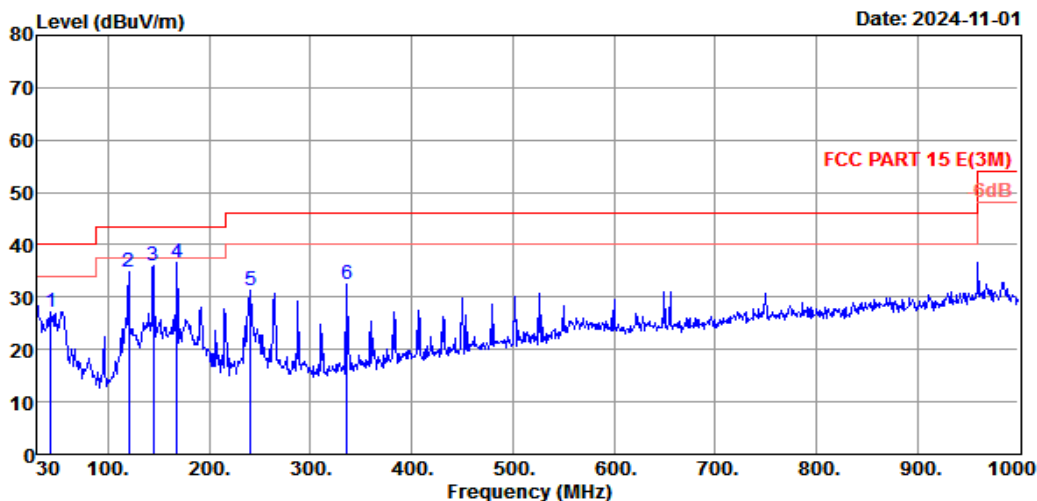
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Data: 189

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-11-01



Site no. : 5# 966 Chamber Data no. : 189
Dis. / Ant. : 3m 54681 Ant. pol. : VERTICAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:23' :Humi:54%: Prwss:101.1kPa
Engineer : Luke
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	43.58	11.90	1.11	14.14	27.15	40.00	12.85	QP
2	120.21	12.30	1.43	21.04	34.77	43.50	8.73	QP
3	144.46	12.20	1.73	22.06	35.99	43.50	7.51	QP
4	167.74	9.80	2.04	24.71	36.55	43.50	6.95	QP
5	240.49	11.72	2.68	16.76	31.16	46.00	14.84	QP
6	336.52	13.97	3.21	15.16	32.34	46.00	13.66	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

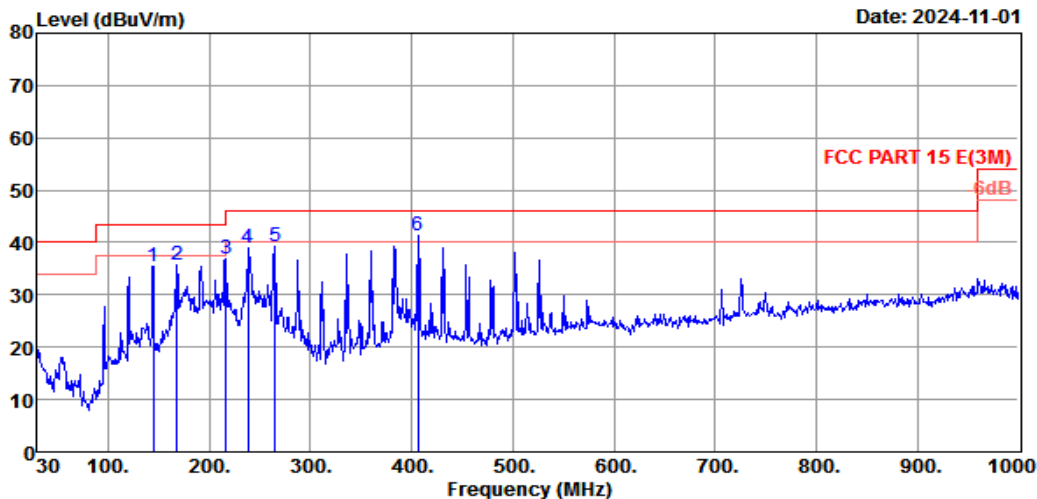
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Data: 190

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-11-01



Site no. : 5# 966 Chamber Data no. : 190
Dis. / Ant. : 3m 54681 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:23' :Humi:54%: Prwss:101.1kPa
Engineer : Luke
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	144.46	12.20	1.73	21.55	35.48	43.50	8.02	QP
2	167.74	9.80	2.04	23.79	35.63	43.50	7.87	QP
3	216.24	9.16	2.54	25.32	37.02	46.00	8.98	QP
4	238.55	11.50	2.68	24.87	39.05	46.00	6.95	QP
5	264.74	14.40	2.83	22.04	39.27	46.00	6.73	QP
6	406.36	16.14	3.56	21.51	41.21	46.00	4.79	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

Radiated Emissions Above 1G

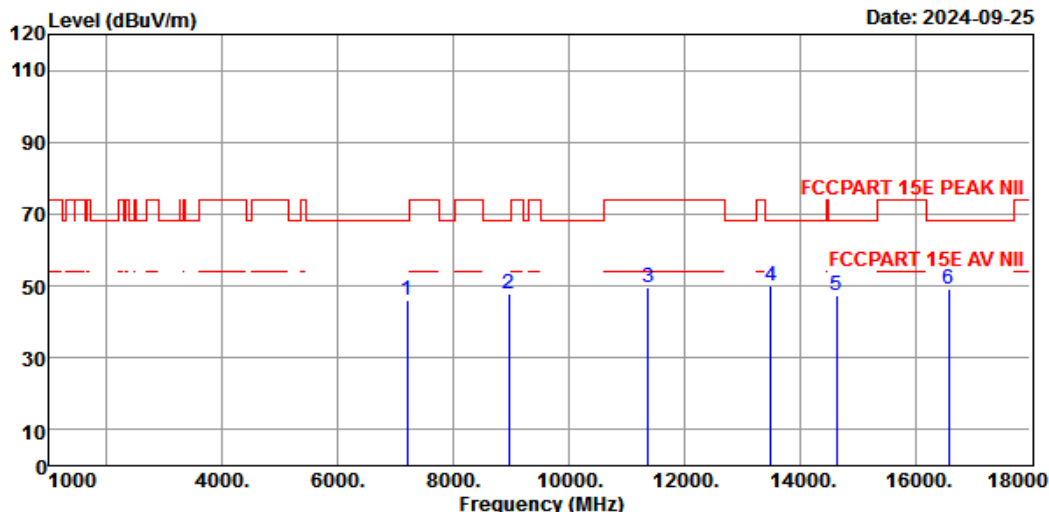
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Data: 137

File: \\EMC-966-5\Test Data2\2024\RF\MMopie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 137
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	37.80	8.41	42.90	42.84	46.15	68.20	22.05	Peak
2	8956.00	38.20	9.16	42.33	42.80	47.83	68.20	20.37	Peak
3	11370.00	40.10	10.76	40.99	39.80	49.67	74.00	24.33	Peak
4	13495.00	41.10	11.30	39.84	37.31	49.87	68.20	18.33	Peak
5	14634.00	38.97	11.18	41.62	38.76	47.29	68.20	20.91	Peak
6	16589.00	39.85	13.08	42.68	38.73	48.98	68.20	19.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

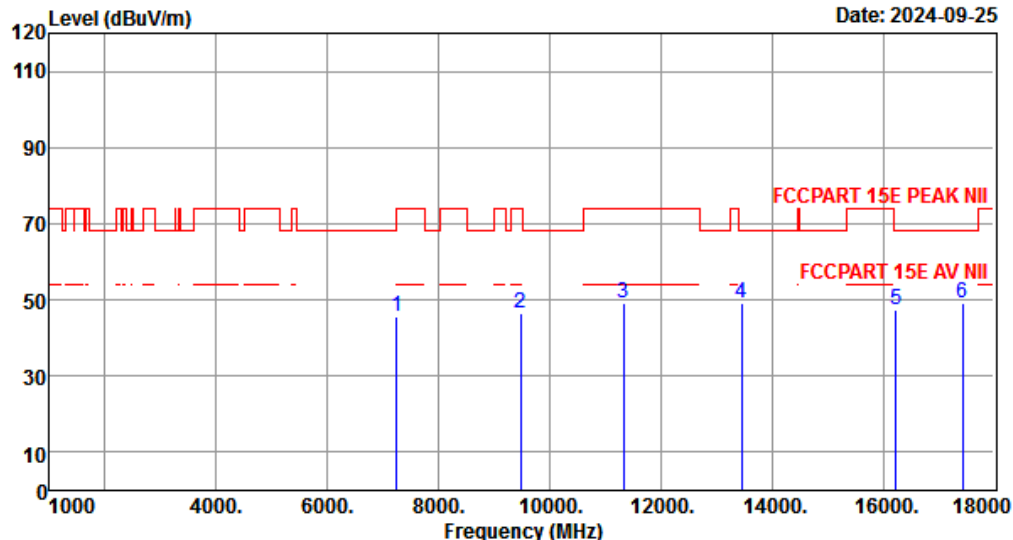
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Data: 138

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 138
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7239.00	37.13	8.42	42.90	42.74	45.39	68.20	22.81	Peak
2	9483.00	38.40	9.48	42.01	40.83	46.70	74.00	27.30	Peak
3	11336.00	39.90	10.75	41.00	39.56	49.21	74.00	24.79	Peak
4	13461.00	40.97	11.30	39.81	36.80	49.26	68.20	18.94	Peak
5	16232.00	38.67	12.61	42.75	38.68	47.21	68.20	20.99	Peak
6	17439.00	40.20	13.95	42.03	37.00	49.12	68.20	19.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

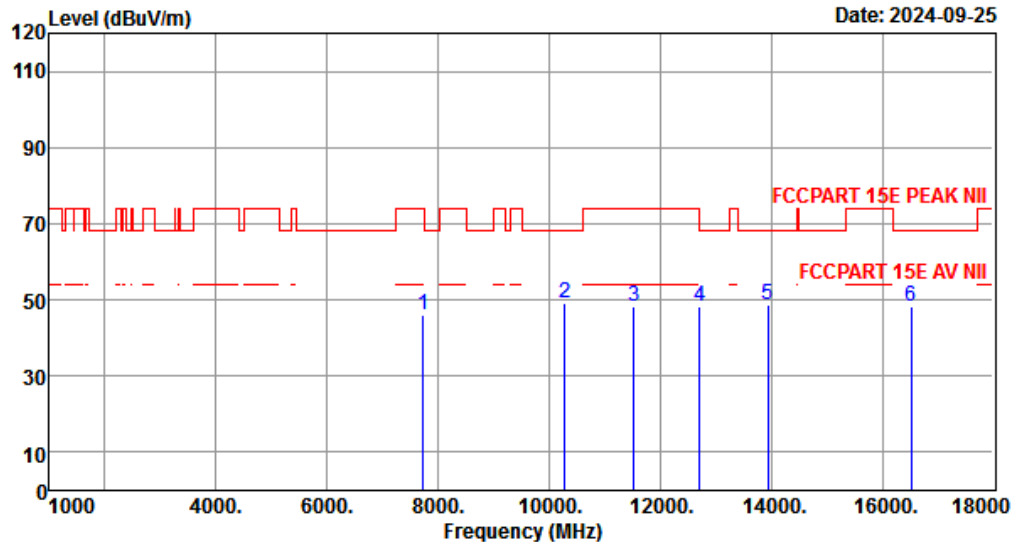
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Data: 139

File: \\EMC-966-5\Test Data2\2024\RFMM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 139
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7732.00	36.83	8.56	42.90	43.40	45.89	74.00	28.11	Peak
2	10282.00	38.15	10.02	41.53	42.41	49.05	68.20	19.15	Peak
3	11523.00	40.23	10.84	40.94	38.10	48.23	74.00	25.77	Peak
4	12713.00	40.00	11.26	39.80	36.71	48.17	68.20	20.03	Peak
5	13937.00	40.43	11.26	40.24	37.11	48.56	68.20	19.64	Peak
6	16521.00	39.65	12.99	42.69	38.36	48.31	68.20	19.89	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

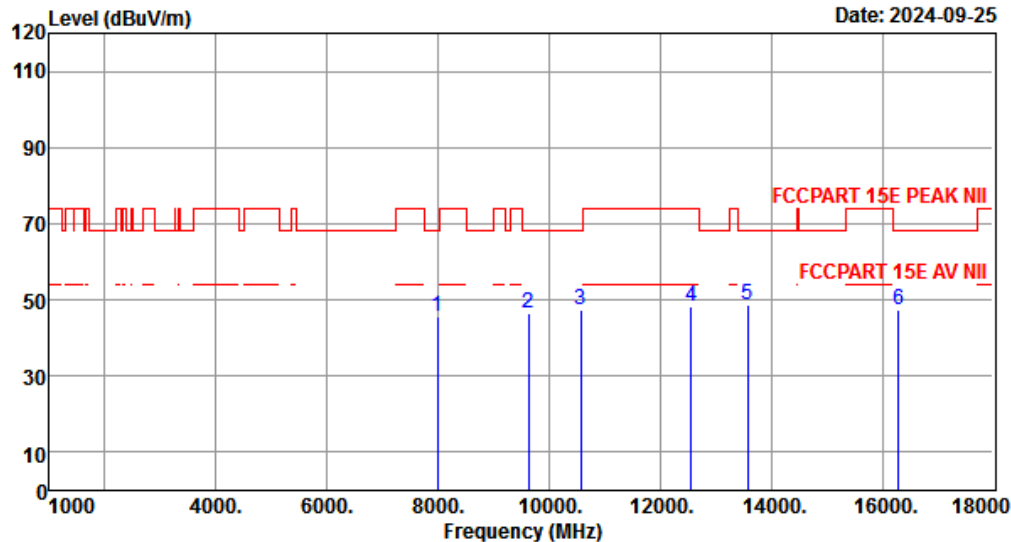
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Data: 140

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 140
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7987.00	37.43	8.64	42.90	42.49	45.66	68.20	22.54	Peak
2	9636.00	38.53	9.57	41.92	40.51	46.69	68.20	21.51	Peak
3	10571.00	38.63	10.25	41.35	40.01	47.54	68.20	20.66	Peak
4	12560.00	39.40	11.22	40.02	37.52	48.12	74.00	25.88	Peak
5	13580.00	40.93	11.29	39.92	36.27	48.57	68.20	19.63	Peak
6	16300.00	38.60	12.70	42.74	38.83	47.39	68.20	20.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

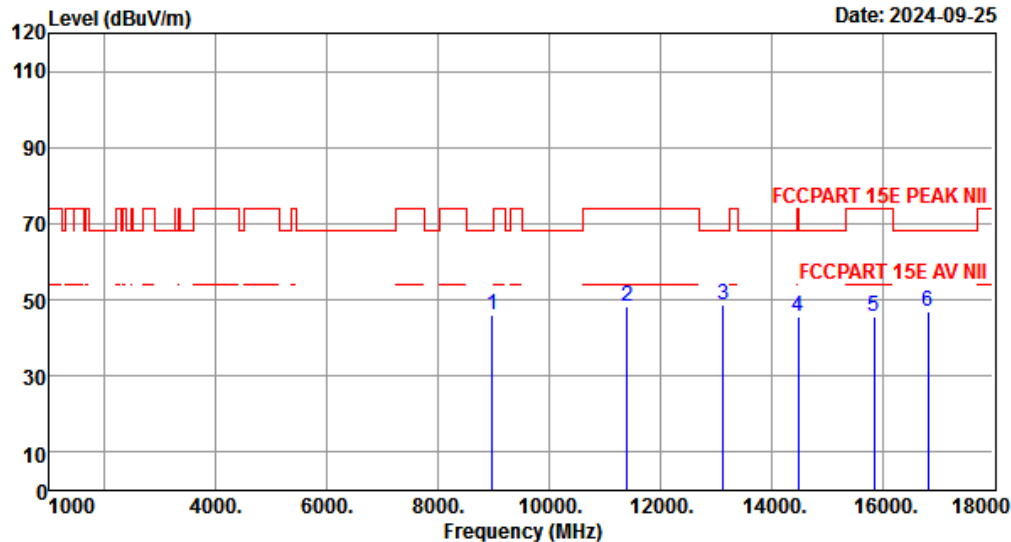
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Data: 141

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 141
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8973.00	38.10	9.17	42.32	41.02	45.97	68.20	22.23	Peak
2	11404.00	40.30	10.78	40.98	38.07	48.17	74.00	25.83	Peak
3	13138.00	40.37	11.32	39.52	36.50	48.67	68.20	19.53	Peak
4	14481.00	39.35	11.20	41.30	36.50	45.75	74.00	28.25	Peak
5	15858.00	36.58	12.13	42.74	39.70	45.67	74.00	28.33	Peak
6	16827.00	39.10	13.39	42.63	37.12	46.98	68.20	21.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

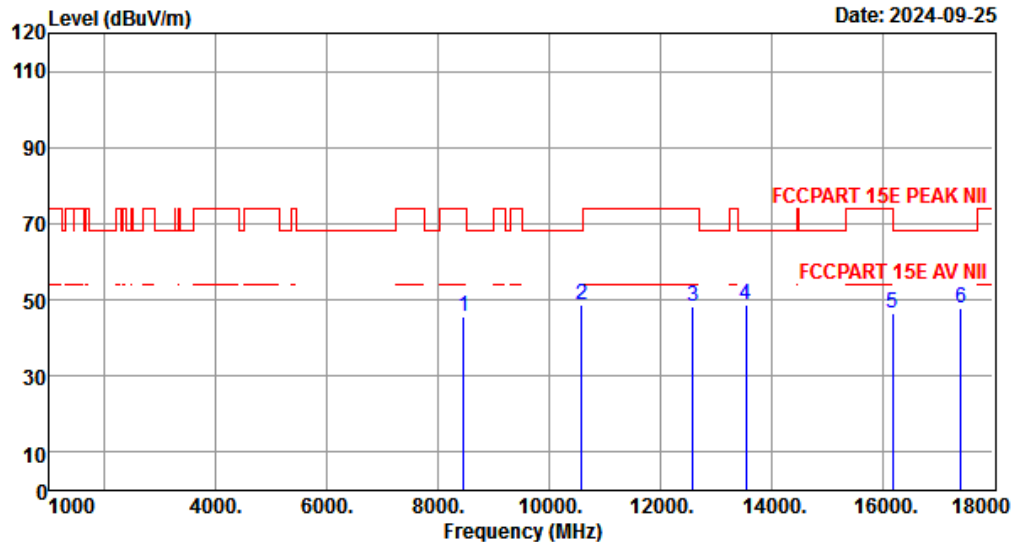
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Data: 142

File: \\EMC-966-5\Test Data2\2024\RFMM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 142
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8463.00	37.67	8.89	42.63	41.50	45.43	74.00	28.57	Peak
2	10588.00	38.67	10.26	41.34	41.14	48.73	68.20	19.47	Peak
3	12594.00	39.40	11.22	39.97	37.47	48.12	74.00	25.88	Peak
4	13546.00	41.00	11.29	39.89	36.21	48.61	68.20	19.59	Peak
5	16181.00	38.73	12.54	42.76	37.92	46.43	74.00	27.57	Peak
6	17422.00	40.20	13.94	42.05	35.81	47.90	68.20	20.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

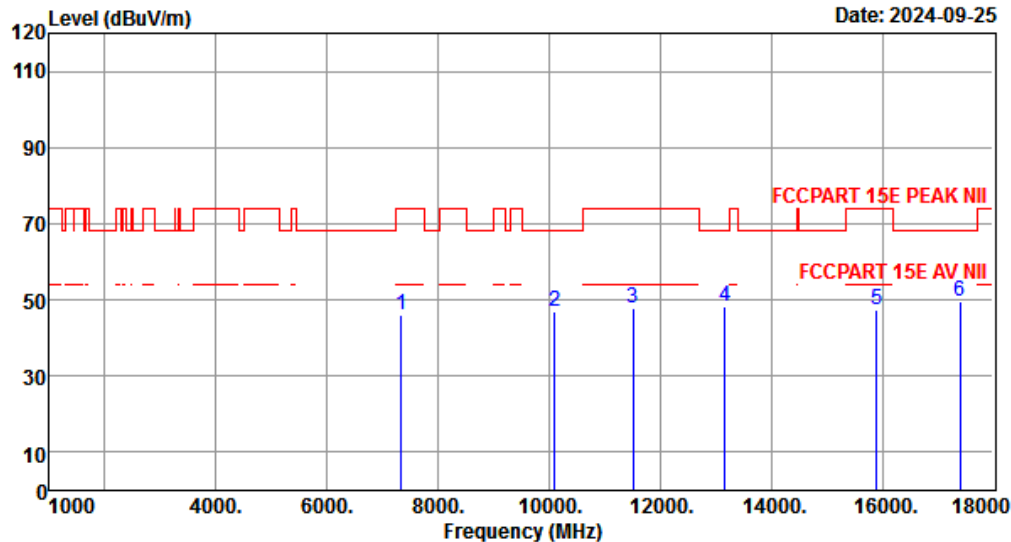
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Data: 143

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 143
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5260MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7341.00	36.77	8.45	42.90	43.73	46.05	74.00	27.95	Peak
2	10095.00	38.80	9.87	41.64	39.72	46.75	68.20	21.45	Peak
3	11506.00	40.30	10.83	40.95	37.48	47.66	74.00	26.34	Peak
4	13172.00	40.53	11.32	39.55	36.06	48.36	68.20	19.84	Peak
5	15892.00	36.50	12.17	42.76	41.45	47.36	74.00	26.64	Peak
6	17405.00	40.20	13.93	42.07	37.39	49.45	68.20	18.75	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

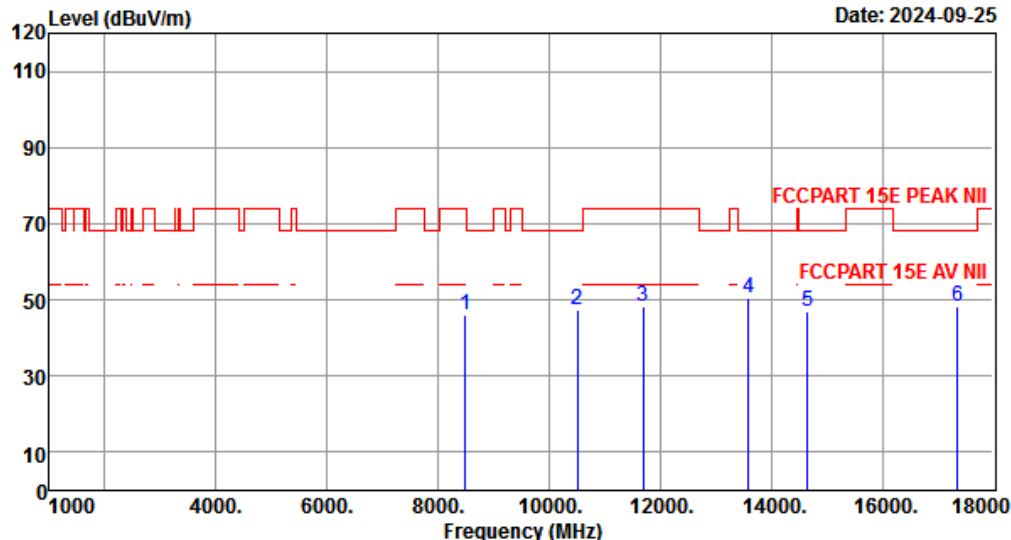
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Data: 144

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 144
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5260MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8497.00	38.00	8.91	42.61	41.59	45.89	74.00	28.11	Peak
2	10503.00	38.50	10.19	41.39	39.90	47.20	68.20	21.00	Peak
3	11693.00	39.30	10.92	40.89	38.78	48.11	74.00	25.89	Peak
4	13597.00	40.90	11.29	39.93	38.04	50.30	68.20	17.90	Peak
5	14651.00	38.95	11.18	41.65	38.29	46.77	68.20	21.43	Peak
6	17354.00	39.50	13.89	42.14	37.10	48.35	68.20	19.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

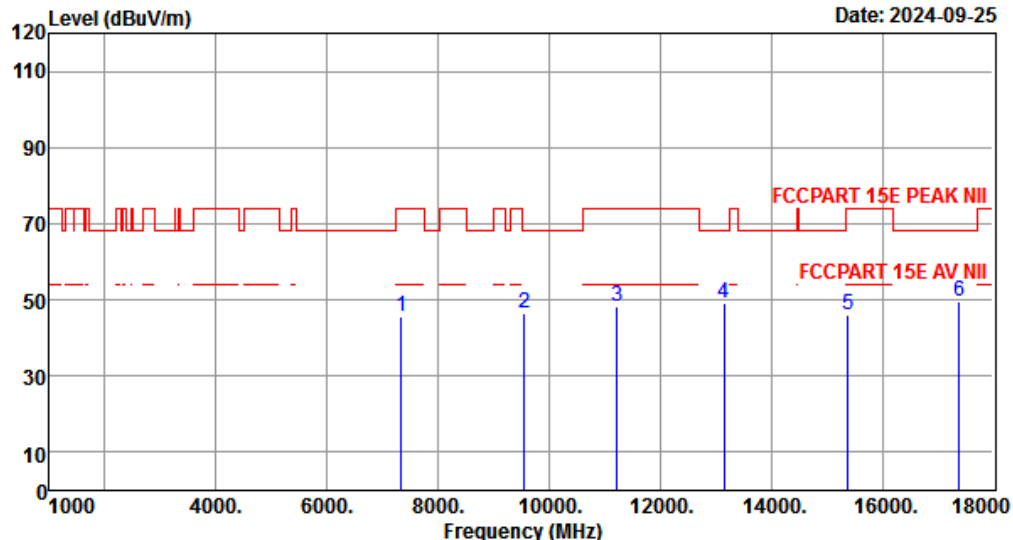
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Data: 145

File: \\EMC-966-5\Test Data2\2024\RFMM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 145
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5300MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7341.00	36.77	8.45	42.90	43.34	45.66	74.00	28.34	Peak
2	9551.00	38.60	9.52	41.97	40.29	46.44	68.20	21.76	Peak
3	11217.00	39.45	10.69	41.03	39.19	48.30	74.00	25.70	Peak
4	13155.00	40.45	11.32	39.54	36.71	48.94	68.20	19.26	Peak
5	15382.00	37.88	11.58	42.55	38.94	45.85	74.00	28.15	Peak
6	17388.00	39.97	13.92	42.09	37.68	49.48	68.20	18.72	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

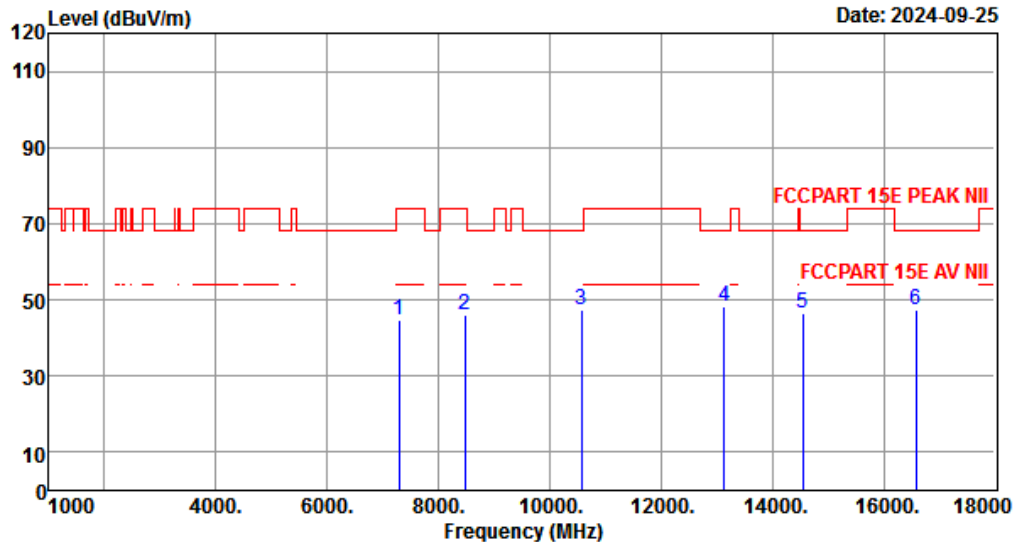
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Data: 146

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Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 146
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5300MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7290.00	36.87	8.43	42.90	42.48	44.88	74.00	29.12	Peak
2	8480.00	37.83	8.90	42.62	41.87	45.98	74.00	28.02	Peak
3	10571.00	38.63	10.25	41.35	39.98	47.51	68.20	20.69	Peak
4	13138.00	40.37	11.32	39.52	36.27	48.44	68.20	19.76	Peak
5	14549.00	39.15	11.19	41.44	37.69	46.59	68.20	21.61	Peak
6	16589.00	39.85	13.08	42.68	37.03	47.28	68.20	20.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

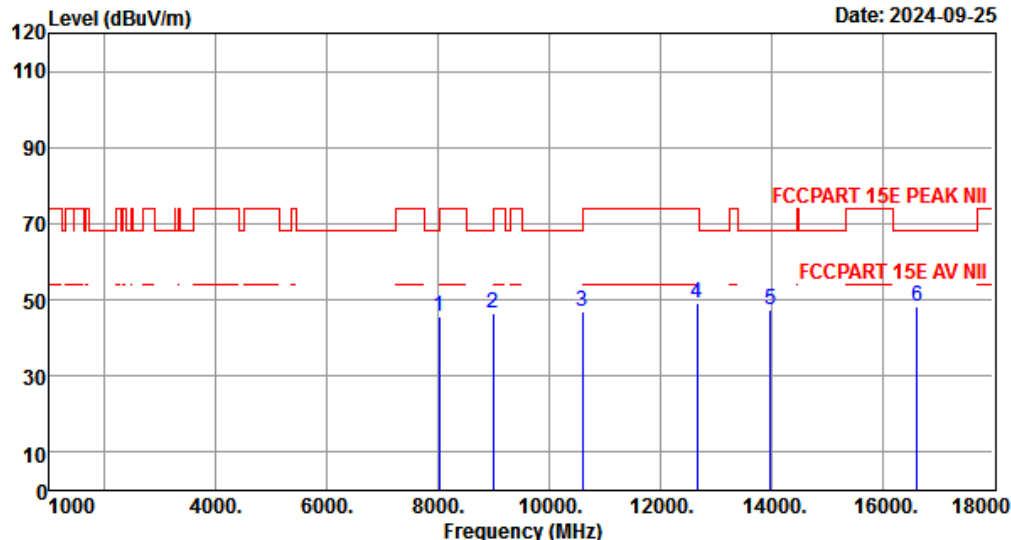
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Data: 147

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 147
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8021.00	37.50	8.65	42.89	42.20	45.46	68.20	22.74	Peak
2	8990.00	38.00	9.18	42.31	41.43	46.30	68.20	21.90	Peak
3	10605.00	38.70	10.27	41.33	39.27	46.91	74.00	27.09	Peak
4	12662.00	39.80	11.24	39.87	38.06	49.23	74.00	24.77	Peak
5	13988.00	40.33	11.26	40.28	36.08	47.39	68.20	20.81	Peak
6	16623.00	39.67	13.12	42.67	38.37	48.49	68.20	19.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

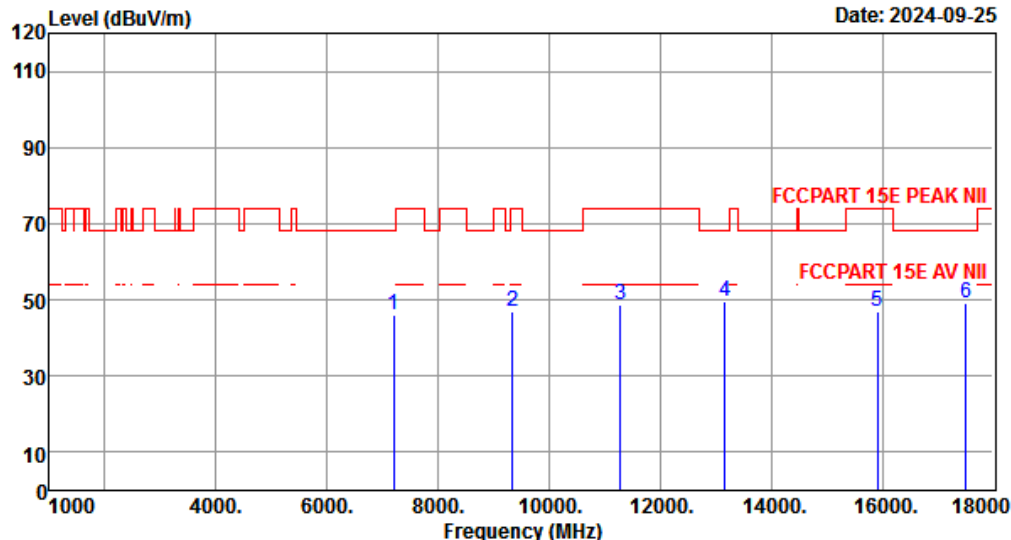
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Data: 148

File: \\EMC-966-5\Test Data2\2024\RFMM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 148
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	37.80	8.41	42.90	42.80	46.11	68.20	22.09	Peak
2	9347.00	38.30	9.40	42.09	41.25	46.86	74.00	27.14	Peak
3	11285.00	39.65	10.72	41.01	39.32	48.68	74.00	25.32	Peak
4	13172.00	40.53	11.32	39.55	37.24	49.54	68.20	18.66	Peak
5	15909.00	36.72	12.19	42.77	40.65	46.79	74.00	27.21	Peak
6	17507.00	40.20	14.01	41.94	36.72	48.99	68.20	19.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

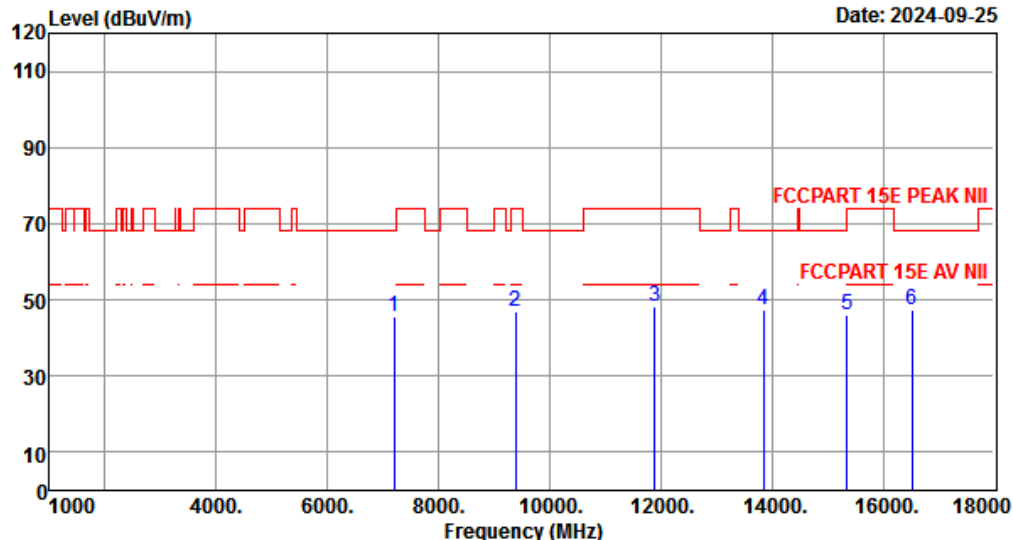
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Data: 149

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 149
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	37.80	8.41	42.90	42.36	45.67	68.20	22.53	Peak
2	9381.00	38.57	9.42	42.07	40.97	46.89	74.00	27.11	Peak
3	11897.00	39.50	11.02	40.83	38.40	48.09	74.00	25.91	Peak
4	13852.00	40.30	11.27	40.16	35.86	47.27	68.20	20.93	Peak
5	15348.00	38.05	11.54	42.54	39.02	46.07	68.20	22.13	Peak
6	16521.00	39.65	12.99	42.69	37.27	47.22	68.20	20.98	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

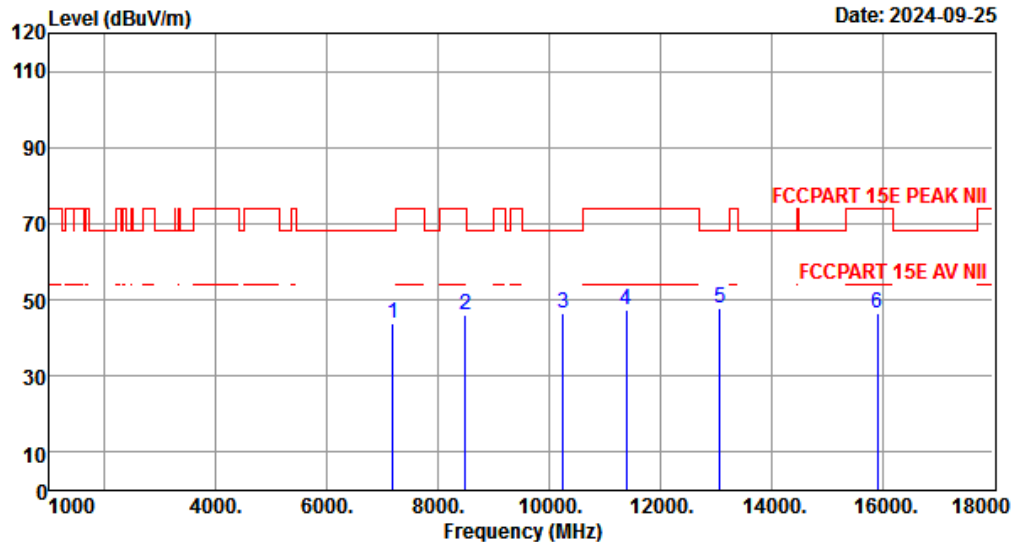
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Data: 150

File: \\EMC-966-5\Test Data2\2024\RFMM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 150
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7188.00	37.57	8.40	42.90	40.86	43.93	68.20	24.27	Peak
2	8497.00	38.00	8.91	42.61	41.62	45.92	74.00	28.08	Peak
3	10248.00	38.25	9.99	41.55	39.79	46.48	68.20	21.72	Peak
4	11387.00	40.20	10.77	40.98	37.61	47.60	74.00	26.40	Peak
5	13070.00	40.20	11.33	39.46	35.85	47.92	68.20	20.28	Peak
6	15909.00	36.72	12.19	42.77	40.46	46.60	74.00	27.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

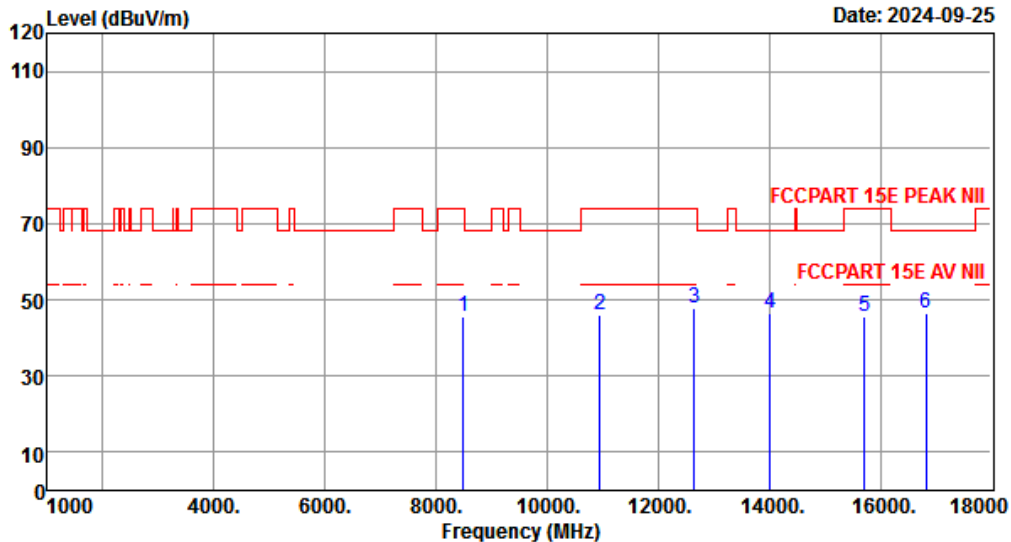
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Data: 151

File: \\EMC-966-5\Test Data2\2024\RFMM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 151
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8497.00	38.00	8.91	42.61	41.40	45.70	74.00	28.30	Peak
2	10945.00	38.20	10.54	41.13	38.29	45.90	74.00	28.10	Peak
3	12645.00	39.70	11.24	39.90	36.63	47.67	74.00	26.33	Peak
4	14022.00	40.15	11.26	40.34	35.48	46.55	68.20	21.65	Peak
5	15722.00	37.53	11.97	42.69	38.64	45.45	74.00	28.55	Peak
6	16827.00	39.10	13.39	42.63	36.52	46.38	68.20	21.82	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

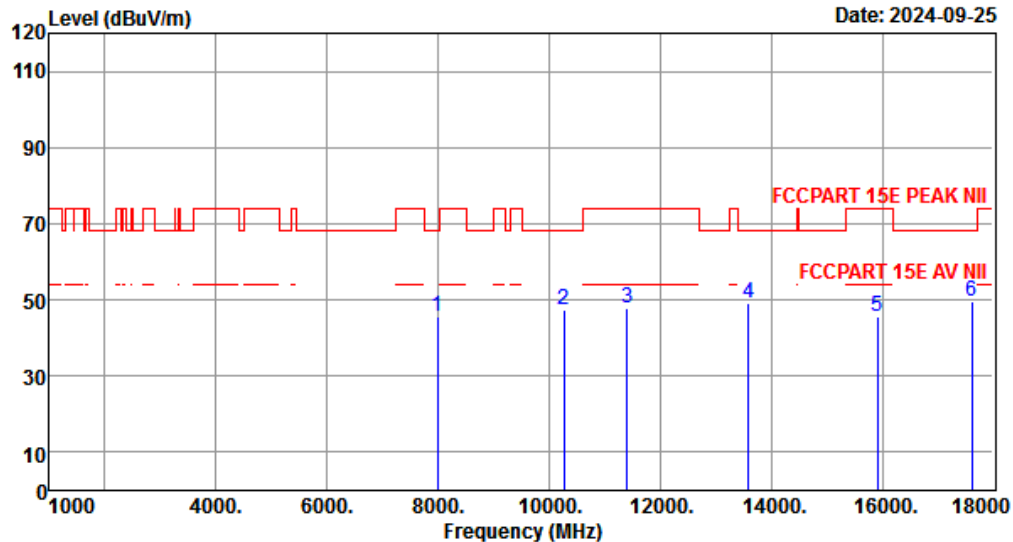
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Data: 152

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 152
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7987.00	37.43	8.64	42.90	42.22	45.39	68.20	22.81	Peak
2	10265.00	38.20	10.00	41.54	40.65	47.31	68.20	20.89	Peak
3	11404.00	40.30	10.78	40.98	37.62	47.72	74.00	26.28	Peak
4	13597.00	40.90	11.29	39.93	36.71	48.97	68.20	19.23	Peak
5	15909.00	36.72	12.19	42.77	39.61	45.75	74.00	28.25	Peak
6	17609.00	41.68	14.08	41.81	35.58	49.53	68.20	18.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

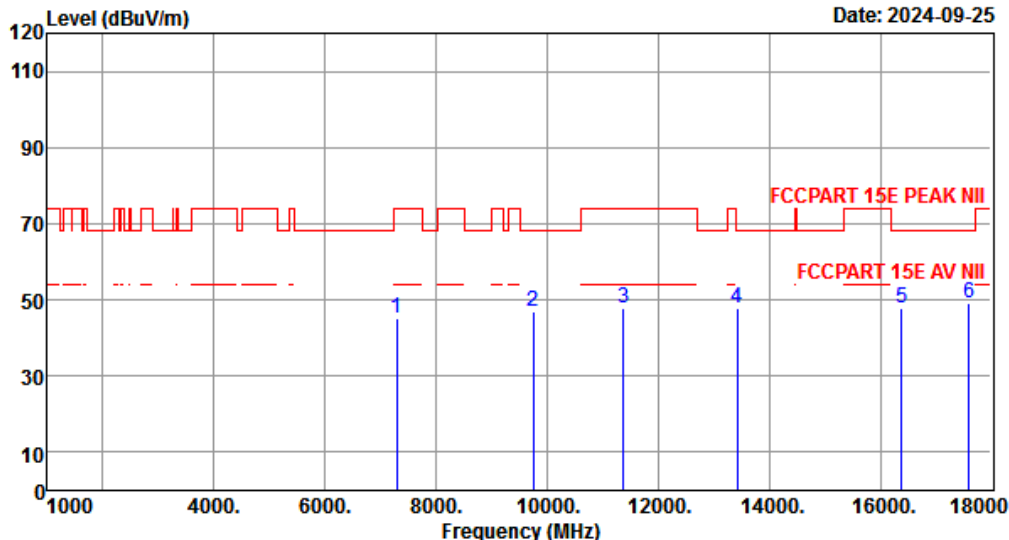
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Data: 153

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 153
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7290.00	36.87	8.43	42.90	42.60	45.00	74.00	29.00	Peak
2	9755.00	38.60	9.65	41.84	40.73	47.14	68.20	21.06	Peak
3	11370.00	40.10	10.76	40.99	37.76	47.63	74.00	26.37	Peak
4	13427.00	40.83	11.30	39.78	35.66	48.01	68.20	20.19	Peak
5	16385.00	38.85	12.81	42.72	38.74	47.68	68.20	20.52	Peak
6	17592.00	41.70	14.07	41.83	35.26	49.20	68.20	19.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

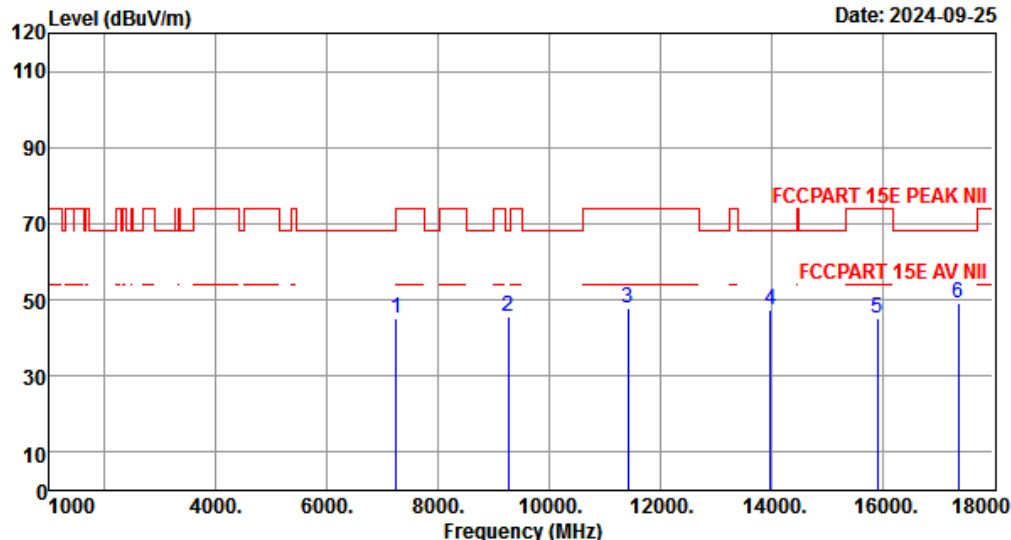
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Data: 154

File: \\EMC-966-5\Test Data2\2024\RFMM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 154
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7239.00	37.13	8.42	42.90	42.42	45.07	68.20	23.13	Peak
2	9262.00	38.30	9.35	42.14	40.18	45.69	68.20	22.51	Peak
3	11421.00	40.30	10.79	40.97	37.71	47.83	74.00	26.17	Peak
4	13988.00	40.33	11.26	40.28	36.12	47.43	68.20	20.77	Peak
5	15909.00	36.72	12.19	42.77	38.88	45.02	74.00	28.98	Peak
6	17371.00	39.73	13.90	42.12	37.68	49.19	68.20	19.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

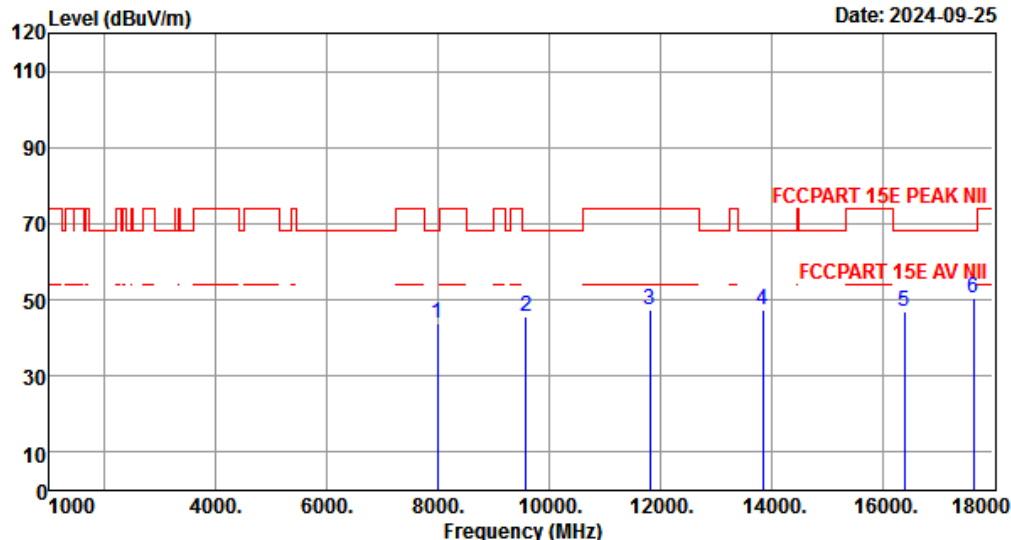
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Data: 157

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 157
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5785MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7987.00	37.43	8.64	42.90	40.76	43.93	68.20	24.27	Peak
2	9585.00	38.47	9.54	41.95	39.77	45.83	68.20	22.37	Peak
3	11812.00	39.42	10.98	40.86	37.69	47.23	74.00	26.77	Peak
4	13852.00	40.30	11.27	40.16	35.90	47.31	68.20	20.89	Peak
5	16402.00	38.90	12.83	42.72	37.99	47.00	68.20	21.20	Peak
6	17643.00	41.65	14.11	41.76	36.54	50.54	68.20	17.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

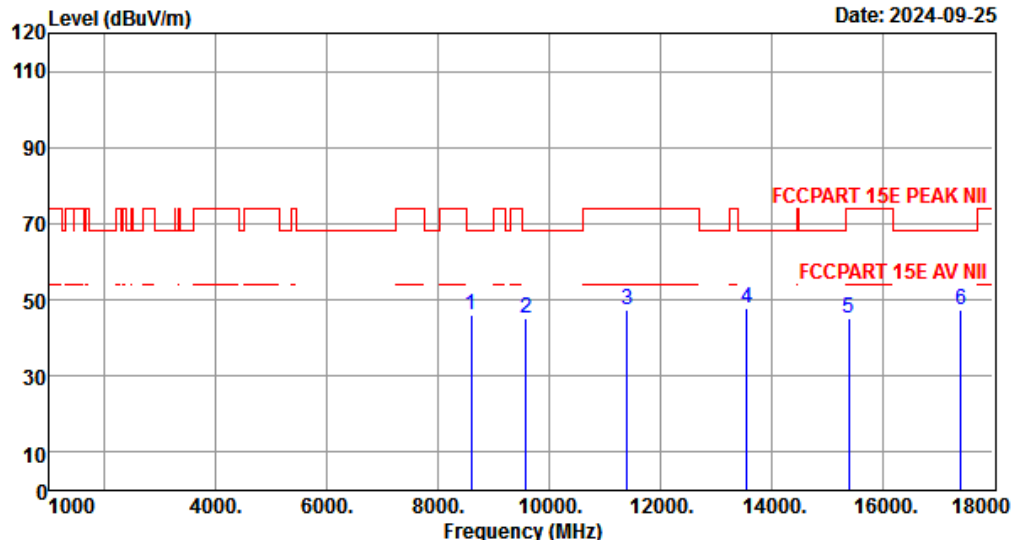
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Data: 158

File: \\EMC-966-5\Test Data2\2024\RFMM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 158
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5785MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8599.00	38.10	8.97	42.54	41.45	45.98	68.20	22.22	Peak
2	9585.00	38.47	9.54	41.95	39.22	45.28	68.20	22.92	Peak
3	11404.00	40.30	10.78	40.98	37.48	47.58	74.00	26.42	Peak
4	13563.00	40.97	11.29	39.90	35.66	48.02	68.20	20.18	Peak
5	15399.00	37.80	11.60	42.56	38.41	45.25	74.00	28.75	Peak
6	17422.00	40.20	13.94	42.05	35.41	47.50	68.20	20.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

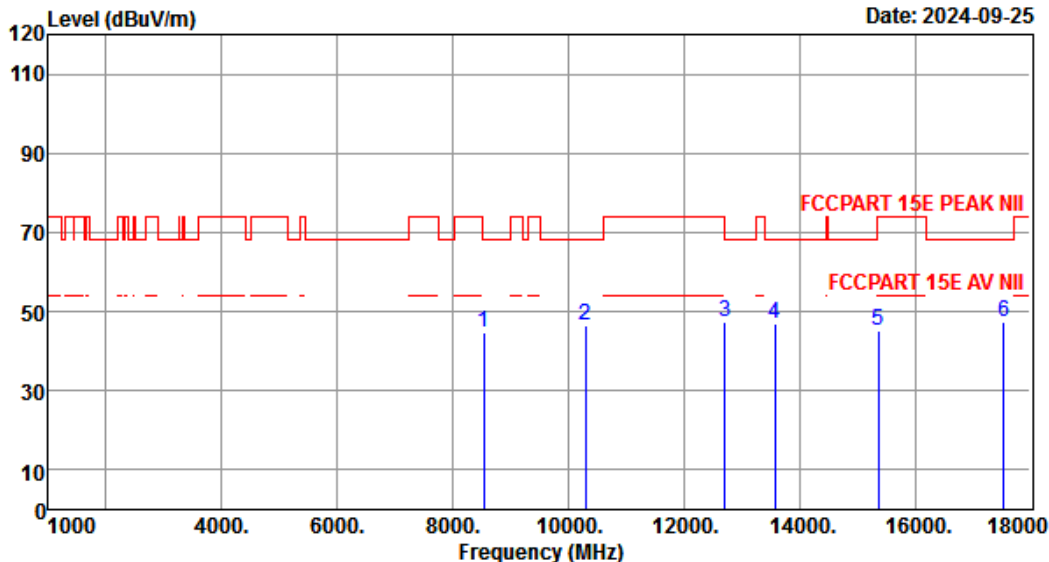
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Data: 159

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 159
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8531.00	37.73	8.93	42.58	40.76	44.84	68.20	23.36	Peak
2	10299.00	38.10	10.03	41.52	39.84	46.45	68.20	21.75	Peak
3	12713.00	40.00	11.26	39.80	36.10	47.56	68.20	20.64	Peak
4	13580.00	40.93	11.29	39.92	34.85	47.15	68.20	21.05	Peak
5	15365.00	37.97	11.56	42.54	38.23	45.22	74.00	28.78	Peak
6	17541.00	40.80	14.03	41.89	34.42	47.36	68.20	20.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

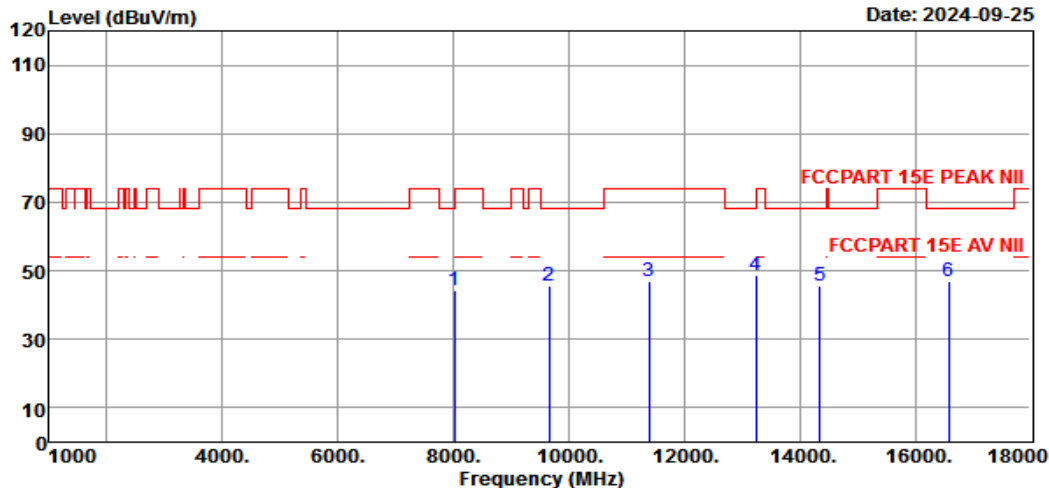
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Data: 160

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 160
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8021.00	37.50	8.65	42.89	41.16	44.42	68.20	23.78	Peak
2	9653.00	38.60	9.58	41.91	39.38	45.65	68.20	22.55	Peak
3	11387.00	40.20	10.77	40.98	37.17	47.16	74.00	26.84	Peak
4	13240.00	40.53	11.31	39.61	36.62	48.85	68.20	19.35	Peak
5	14345.00	39.95	11.22	41.01	35.46	45.62	68.20	22.58	Peak
6	16589.00	39.85	13.08	42.68	36.49	46.74	68.20	21.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 18GHz to 40GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only Low/Middle/High Channel of the worst case modulation mode was reported

Band Edge

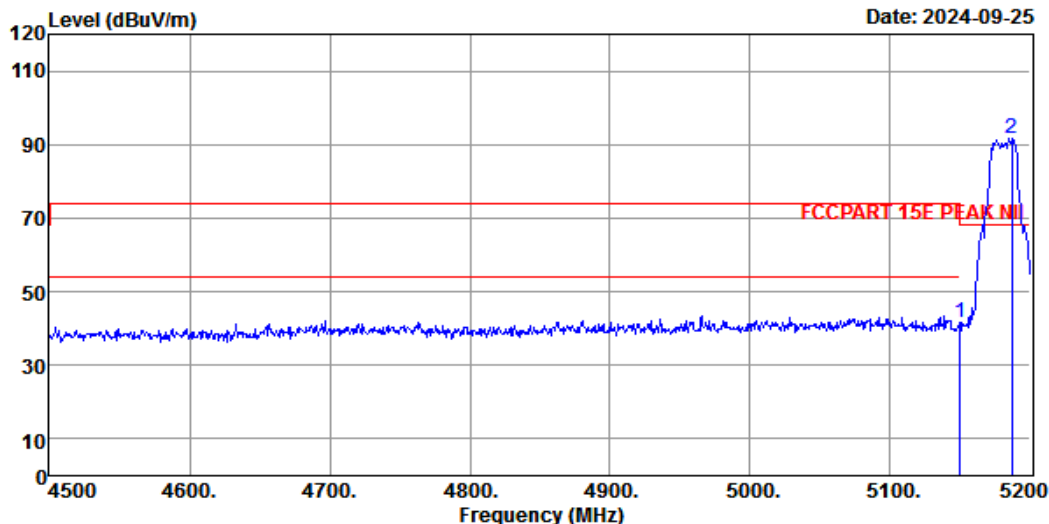
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Data: 5

File: \\EMC-966-5\Test Data2\2024\RF\MMophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 5
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.70	7.09	43.05	44.08	41.82	68.20	26.38	Peak
2	5186.70	33.77	7.12	43.04	93.72	91.57	68.20	-23.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

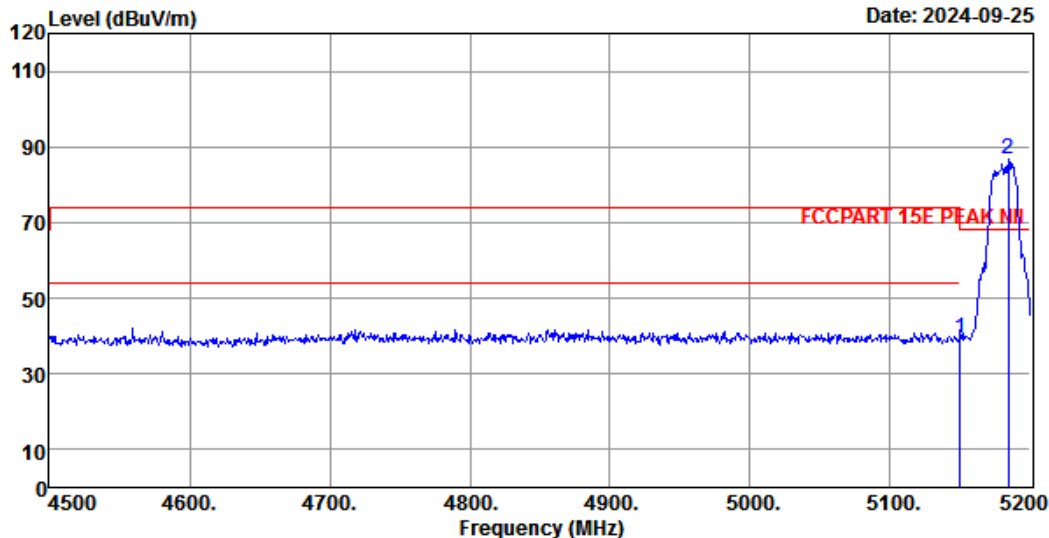
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Data: 6

File: \\EMC-966-5\Test Data2\2024\RF\MMophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 6
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.70	7.09	43.05	41.77	39.51	68.20	28.69	Peak
2	5183.90	33.77	7.12	43.04	89.08	86.93	68.20	-18.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

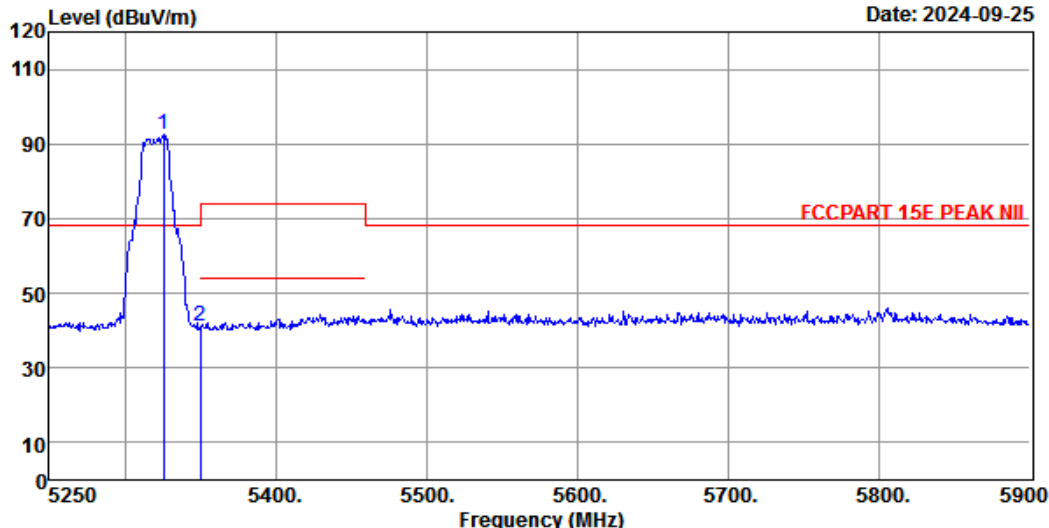
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Data: 7

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 7
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5325.40	33.70	7.25	43.00	94.48	92.43	68.20	-24.23	Peak
2	5350.00	33.70	7.28	42.99	43.39	41.38	68.20	26.82	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

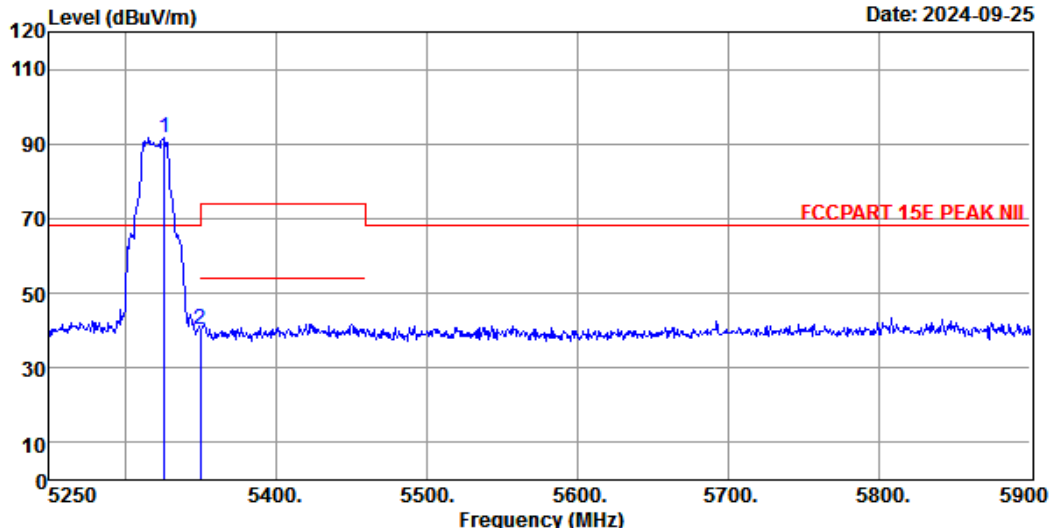
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Data: 8

File: \\EMC-966-5\Test Data2\2024\RF\MM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 8
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5326.05	33.70	7.25	43.00	93.69	91.64	68.20	-23.44	Peak
2	5350.00	33.70	7.28	42.99	42.14	40.13	68.20	28.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

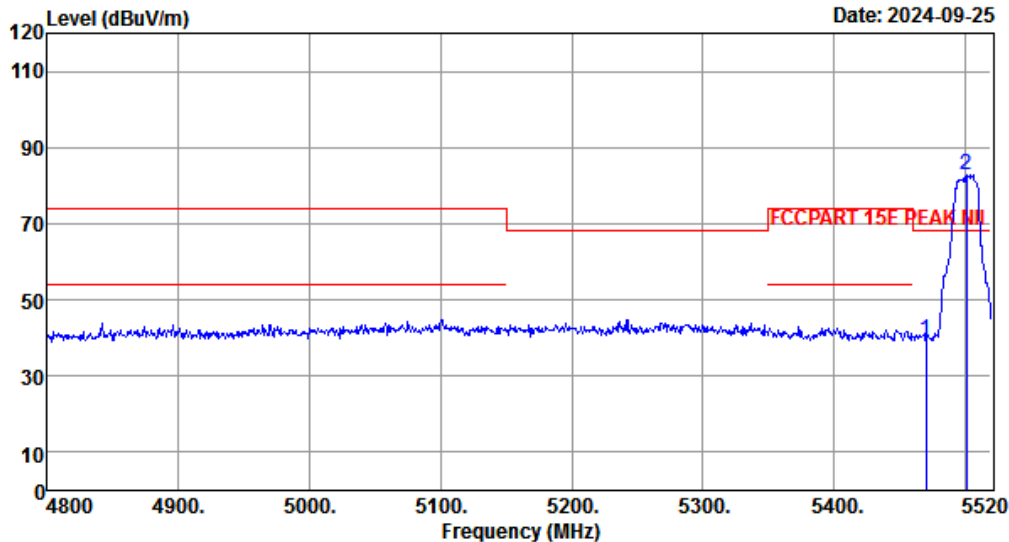
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Data: 9

File: \\EMC-966-5\Test Data2\2024\RFMM\ophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 9
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5470.00	33.60	7.39	42.96	41.17	39.20	68.20	29.00	Peak
2	5501.28	33.40	7.42	42.95	84.93	82.80	68.20	-14.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

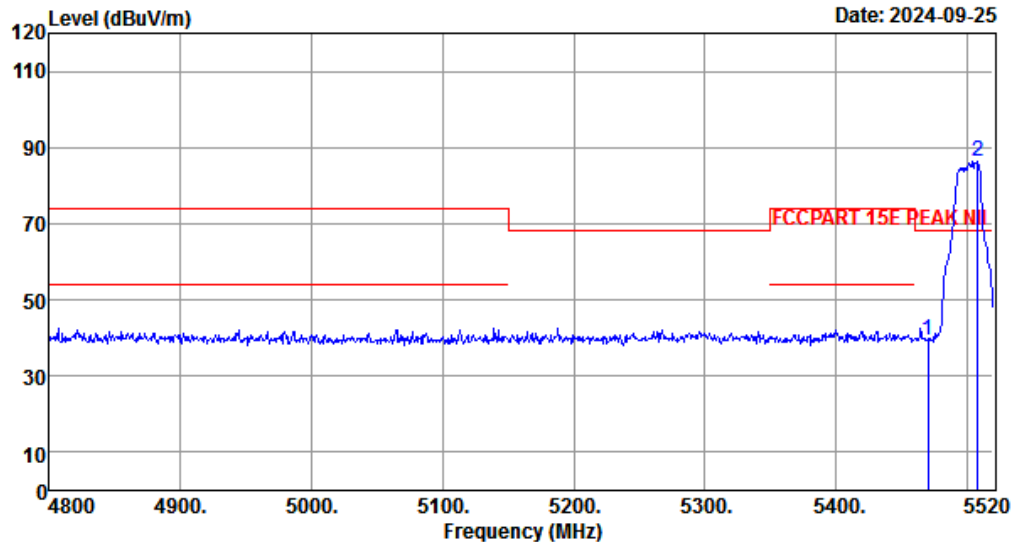
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Data: 10

File: \\EMC-966-5\Test Data2\2024\RFMMophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 10
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5470.00	33.60	7.39	42.96	41.22	39.25	68.20	28.95	Peak
2	5508.48	33.40	7.42	42.95	88.54	86.41	68.20	-18.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official
limit are not reported.

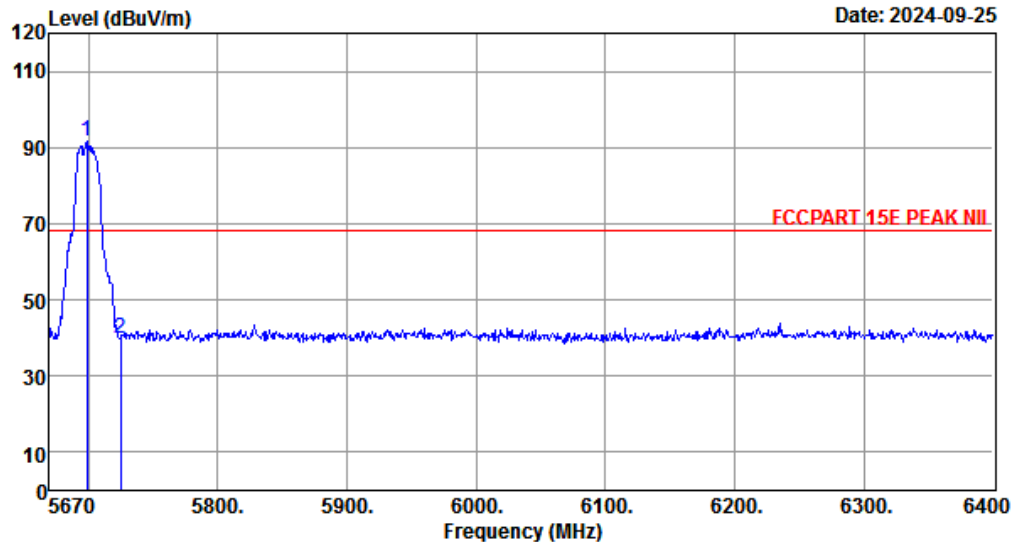
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Data: 11

File: \\EMC-966-5\Test Data2\2024\RF\MMophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 11
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5699.20	34.30	7.60	42.89	92.46	91.47	68.20	-23.27	Peak
2	5725.00	34.63	7.63	42.88	40.67	40.05	68.20	28.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official
limit are not reported.

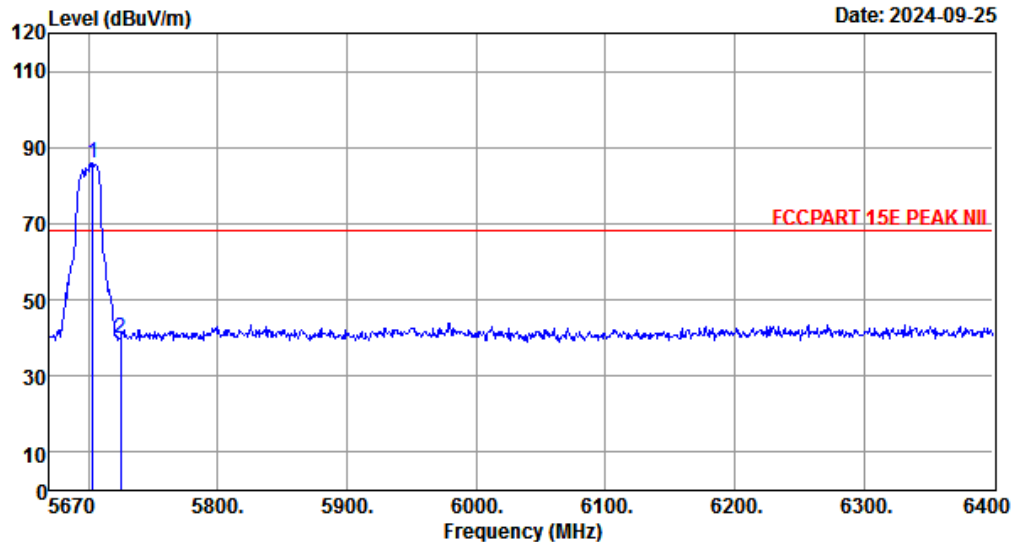
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 12

File: \\EMC-966-5\Test Data2\2024\RF\MMophie\ISOD-ML2.EM6 (194)

Date: 2024-09-25



Site no. : 5# 966 Chamber Data no. : 12
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : IEEE 802.11n HT20 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5703.58	34.47	7.61	42.89	86.69	85.88	68.20	-17.68	Peak
2	5725.00	34.63	7.63	42.88	40.58	39.96	68.20	28.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

18000MHz-40000MHz

Pass

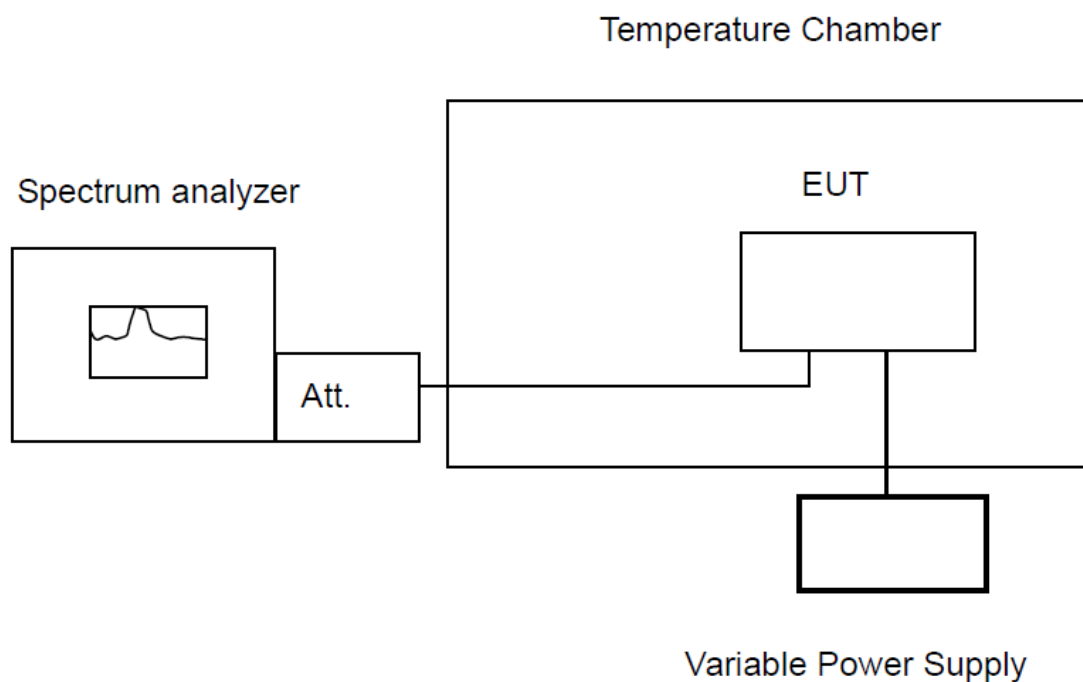
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

7.FREQUENCY STABILITY

7.1.Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

7.2.Test Setup



7.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	10KHz
VBW	10KHz
Span	200KHz
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

7.4.Test Procedure

For measurement frequency stability under temperature variation :

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Set the temperature control on the chamber to the Specified temperature and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
- h. Repeat step d through step f to measured the temperature form -20°C to $+50^{\circ}\text{C}$ in 10°C steps.

For frequency stability under voltage variation:

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Unless otherwise specified, set the temperature control on the chamber to the ambient room temperature ($+15^{\circ}\text{C}$ to $+25^{\circ}\text{C}$) and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency.
- h. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

7.5.Test Result

Refer to section 10: Appendix G

8.AC POWER LINE CONDUCTED EMISSIONS

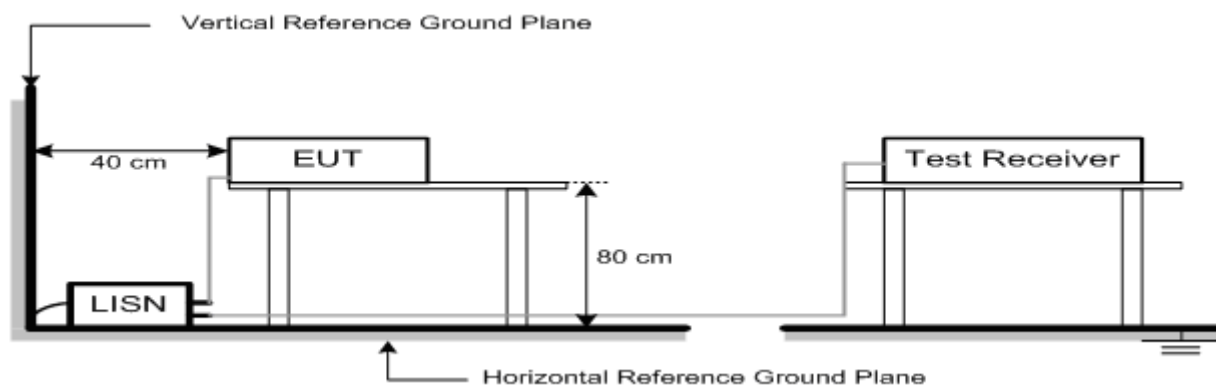
8.1.Limit

Frequency			Maximum RF Line Voltage	
			Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz	~	500kHz	66 ~ 56*	56 ~ 46*
500kHz	~	5MHz	56	46
5MHz	~	30MHz	60	50

Notes:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

8.2.Test Setup



8.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

8.4.Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 8.3.

- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

8.5.Test Result

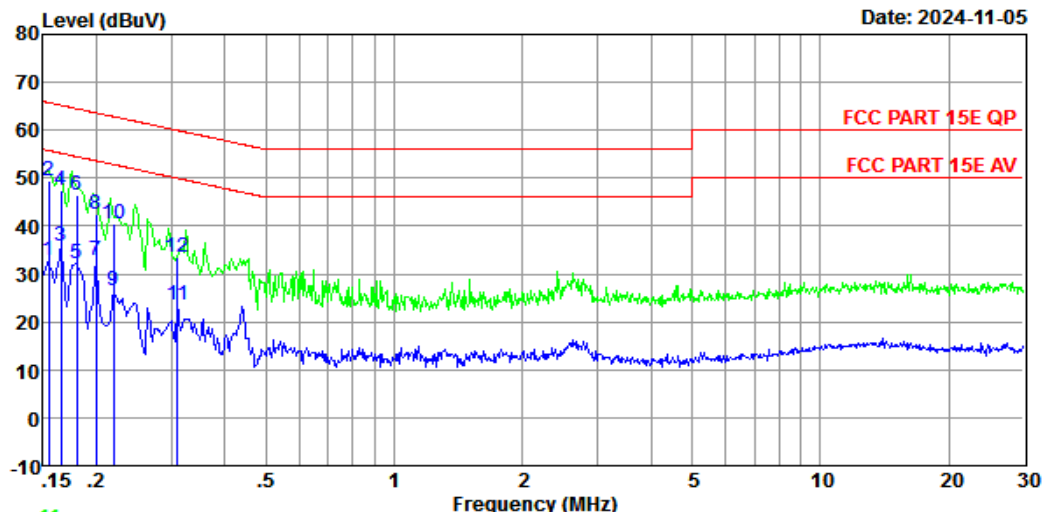
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Data: 12

File: \\EMC-Ce-3\\Test Data2\\2024\\RF\\MISOD-ML2.EM6 (22)

Date: 2024-11-05



	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.99	9.82	12.89	32.70	55.74	23.04	Average
2	0.15	9.99	9.82	29.57	49.38	65.74	16.36	QP
3	0.17	9.99	9.82	16.01	35.82	55.21	19.39	Average
4	0.17	9.99	9.82	27.58	47.39	65.21	17.82	QP
5	0.18	10.22	9.82	11.98	32.02	54.50	22.48	Average
6	0.18	10.22	9.82	26.56	46.60	64.50	17.90	QP
7	0.20	10.22	9.82	12.72	32.76	53.62	20.86	Average
8	0.20	10.22	9.82	22.53	42.57	63.62	21.05	QP
9	0.22	10.22	9.82	6.40	26.44	52.83	26.39	Average
10	0.22	10.22	9.82	20.55	40.59	62.83	22.24	QP
11	0.31	10.23	9.82	3.51	23.56	49.97	26.41	Average
12	0.31	10.23	9.82	13.57	33.62	59.97	26.35	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

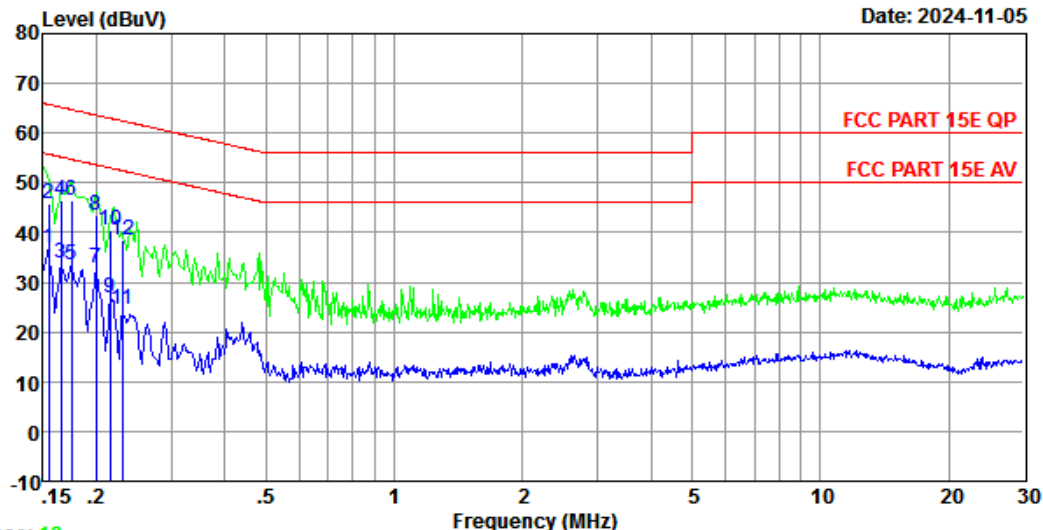
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Data: 14

File: \\EMC-Ce-3\Test Data2\2024\RF\MISOD-ML2.EM6 (22)

Date: 2024-11-05



Site no : 3#CE Shield Room Data no. : 14
Env. / Ins. : Temp:24.8°C; Humi:72%; Press:101.1kPa LINE Phase : LINE
Limit : FCC PART 15E QP
Engineer : Wind
EUT : Smart Shield Machine
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : ISOD-ML2
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	10.19	9.82	16.80	36.81	55.74	18.93	Average
2	0.15	10.19	9.82	25.63	45.64	65.74	20.10	QP
3	0.17	10.19	9.82	13.93	33.94	55.21	21.27	Average
4	0.17	10.19	9.82	26.57	46.58	65.21	18.63	QP
5	0.17	10.00	9.82	13.58	33.40	54.72	21.32	Average
6	0.17	10.00	9.82	26.58	46.40	64.72	18.32	QP
7	0.20	10.00	9.82	12.93	32.75	53.62	20.87	Average
8	0.20	10.00	9.82	23.63	43.45	63.62	20.17	QP
9	0.22	10.00	9.82	7.05	26.87	53.01	26.14	Average
10	0.22	10.00	9.82	20.60	40.42	63.01	22.59	QP
11	0.23	10.00	9.82	4.82	24.64	52.44	27.80	Average
12	0.23	10.00	9.82	18.59	38.41	62.44	24.03	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

9.ANTENNA REQUIREMENTS

9.1.Limit

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 a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

9.2.Test Result

The antennas used for this product is internal antenna, so compliance with antenna requirements. (Please refer to the EUT photo for details)

10.APPENDIX

Appendix A1: Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.800	5168.200	5192.000	---	---
11A	Ant1	5200	24.720	5187.640	5212.360	---	---
11A	Ant1	5240	24.200	5227.920	5252.120	---	---
11A	Ant1	5260	22.960	5248.440	5271.400	---	---
11A	Ant1	5300	23.440	5288.240	5311.680	---	---
11A	Ant1	5320	23.720	5307.440	5331.160	---	---
11A	Ant1	5500	23.480	5488.080	5511.560	---	---
11A	Ant1	5580	23.800	5567.840	5591.640	---	---
11A	Ant1	5700	22.800	5688.280	5711.080	---	---
11A	Ant1	5745	23.840	5732.960	5756.800	---	---
11A	Ant1	5785	23.240	5773.080	5796.320	---	---
11A	Ant1	5825	23.320	5813.200	5836.520	---	---
11N20SISO	Ant1	5180	24.680	5167.320	5192.000	---	---
11N20SISO	Ant1	5200	24.360	5187.040	5211.400	---	---
11N20SISO	Ant1	5240	24.680	5227.360	5252.040	---	---
11N20SISO	Ant1	5260	24.680	5247.480	5272.160	---	---
11N20SISO	Ant1	5300	24.880	5287.200	5312.080	---	---
11N20SISO	Ant1	5320	24.800	5307.200	5332.000	---	---
11N20SISO	Ant1	5500	25.000	5487.160	5512.160	---	---
11N20SISO	Ant1	5580	25.200	5567.040	5592.240	---	---
11N20SISO	Ant1	5700	25.640	5687.160	5712.800	---	---
11N20SISO	Ant1	5745	25.760	5732.000	5757.760	---	---
11N20SISO	Ant1	5785	24.360	5773.000	5797.360	---	---
11N20SISO	Ant1	5825	24.440	5812.600	5837.040	---	---
11N40SISO	Ant1	5190	46.160	5166.240	5212.400	---	---
11N40SISO	Ant1	5230	45.120	5207.040	5252.160	---	---
11N40SISO	Ant1	5270	45.600	5246.640	5292.240	---	---
11N40SISO	Ant1	5310	45.120	5287.200	5332.320	---	---
11N40SISO	Ant1	5510	46.320	5486.400	5532.720	---	---
11N40SISO	Ant1	5590	45.840	5566.720	5612.560	---	---
11N40SISO	Ant1	5670	45.520	5646.960	5692.480	---	---
11N40SISO	Ant1	5755	46.160	5731.080	5777.240	---	---
11N40SISO	Ant1	5795	46.400	5771.240	5817.640	---	---
11AC20SISO	Ant1	5180	25.080	5167.240	5192.320	---	---
11AC20SISO	Ant1	5200	27.360	5186.280	5213.640	---	---
11AC20SISO	Ant1	5240	25.120	5227.760	5252.880	---	---
11AC20SISO	Ant1	5260	24.880	5248.080	5272.960	---	---
11AC20SISO	Ant1	5300	26.480	5287.320	5313.800	---	---
11AC20SISO	Ant1	5320	25.280	5307.320	5332.600	---	---
11AC20SISO	Ant1	5500	25.120	5487.720	5512.840	---	---
11AC20SISO	Ant1	5580	24.920	5567.640	5592.560	---	---
11AC20SISO	Ant1	5700	25.040	5687.920	5712.960	---	---
11AC20SISO	Ant1	5745	25.000	5732.640	5757.640	---	---
11AC20SISO	Ant1	5785	25.760	5772.520	5798.280	---	---
11AC20SISO	Ant1	5825	24.680	5812.680	5837.360	---	---
11AC40SISO	Ant1	5190	44.640	5168.400	5213.040	---	---
11AC40SISO	Ant1	5230	44.960	5207.680	5252.640	---	---
11AC40SISO	Ant1	5270	46.400	5247.280	5293.680	---	---

11AC40SISO	Ant1	5310	45.680	5287.040	5332.720	---	---
11AC40SISO	Ant1	5510	45.600	5487.200	5532.800	---	---
11AC40SISO	Ant1	5590	46.400	5566.480	5612.880	---	---
11AC40SISO	Ant1	5670	44.880	5648.320	5693.200	---	---
11AC40SISO	Ant1	5755	46.000	5731.800	5777.800	---	---
11AC40SISO	Ant1	5795	44.960	5772.760	5817.720	---	---
11AX20SISO	Ant1	5180	23.320	5168.280	5191.600	---	---
11AX20SISO	Ant1	5200	24.040	5188.320	5212.360	---	---
11AX20SISO	Ant1	5240	23.960	5228.160	5252.120	---	---
11AX20SISO	Ant1	5260	23.880	5247.840	5271.720	---	---
11AX20SISO	Ant1	5300	23.960	5288.200	5312.160	---	---
11AX20SISO	Ant1	5320	24.520	5307.960	5332.480	---	---
11AX20SISO	Ant1	5500	24.440	5487.960	5512.400	---	---
11AX20SISO	Ant1	5580	23.680	5568.040	5591.720	---	---
11AX20SISO	Ant1	5700	23.920	5688.520	5712.440	---	---
11AX20SISO	Ant1	5745	23.880	5732.960	5756.840	---	---
11AX20SISO	Ant1	5785	24.040	5773.440	5797.480	---	---
11AX20SISO	Ant1	5825	23.360	5813.280	5836.640	---	---
11AX40SISO	Ant1	5190	45.360	5167.120	5212.480	---	---
11AX40SISO	Ant1	5230	44.640	5207.840	5252.480	---	---
11AX40SISO	Ant1	5270	44.080	5248.400	5292.480	---	---
11AX40SISO	Ant1	5310	45.280	5287.840	5333.120	---	---
11AX40SISO	Ant1	5510	45.600	5487.280	5532.880	---	---
11AX40SISO	Ant1	5590	44.160	5567.840	5612.000	---	---
11AX40SISO	Ant1	5670	46.560	5646.800	5693.360	---	---
11AX40SISO	Ant1	5755	45.200	5732.200	5777.400	---	---
11AX40SISO	Ant1	5795	45.200	5772.920	5818.120	---	---

Test Graphs

11A-Ant1-5180



11A-Ant1-5200



11A-Ant1-5240



11A-Ant1-5260



11A-Ant1-5300



11A-Ant1-5320



11A-Ant1-5500



11A-Ant1-5580



11A-Ant1-5700



11A-Ant1-5745



11A-Ant1-5785



11A-Ant1-5825



11N20SISO-Ant1-5180



11N20SISO-Ant1-5200



11N20SISO-Ant1-5240



11N20SISO-Ant1-5260



11N20SISO-Ant1-5300



11N20SISO-Ant1-5320



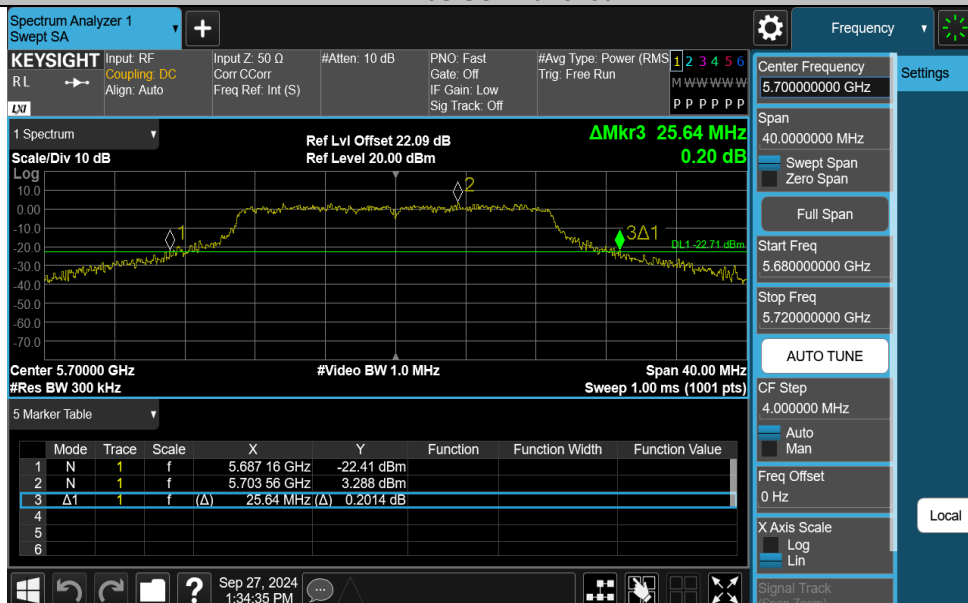
11N20SISO-Ant1-5500



11N20SISO-Ant1-5580



11N20SISO-Ant1-5700



11N20SISO-Ant1-5745



11N20SISO-Ant1-5785



11N20SISO-Ant1-5825



11N40SISO-Ant1-5190



11N40SISO-Ant1-5230



11N40SISO-Ant1-5270



11N40SISO-Ant1-5310



11N40SISO-Ant1-5510



11N40SISO-Ant1-5590

