

FCC Radio Test Report

FCC ID: GSS-VS20861

Report No. : BTL-FCCP-2-2507T096
Equipment : Display
Model Name : VS20861
Brand Name : ViewSonic
Applicant : ViewSonic Corporation
Address : 10 Pointe Drive, Suite 200, Brea, CA 92821 USA

Radio Function : RLAN 5 GHz (U-NII 1, U-NII 3)

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart E (15.407)
Measurement Procedure(s) : ANSI C63.10-2013

Date of Receipt : 2025/7/28
Date of Test : 2025/8/4 ~ 2025/9/16
Issued Date : 2025/9/17

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2507T096	R00	Original Report.	2025/8/20	Invalid
BTL-FCCP-2-2507T096	R01	Revised report to address TCB's comments.	2025/9/17	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
15.205 15.209 15.407(b)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	Pass	-----
15.407(a)	Bandwidth	APPENDIX E	Pass	-----
15.407(a)	Output Power	APPENDIX F	Pass	-----
15.407(a)	Power Spectral Density	APPENDIX G	Pass	-----
15.203	Antenna Requirement	-----	Pass	-----
15.407(c)	Automatically Discontinue Transmission	-----	Pass	NOTE (3)

Statement of Conformity

The statement of conformity is based on the binary decision rule according to IEC Guide 115 and ILAC G8 "simple acceptance" principle. Without considering measurement uncertainty, its specific risk is less than 50% PFA. (PFA: Probability of False Accept)

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☐ C05 ☐ CB08 ☐ CB11 ☐ SR10 ☒ SR11

No. 68-2, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☒ SR05

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☐ C06 ☒ CB21 ☐ CB22

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately **95 %**.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
SR05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U (dB)
CB21	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test :

Test Item	U,(dB)
Occupied Bandwidth	0.5332
Output power	0.3669
Power Spectral Density	0.6590
Conducted Spurious emissions	0.5416
Conducted Band edges	0.5335
Frequency Stability	0.5333

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	24 °C, 55 %	AC 120V	Ken Lan
Radiated emissions below 1 GHz	Refer to data	AC 120V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Mark Wang
Bandwidth	24 °C, 57 %	AC 120V	Easton Tsai
Output Power	24 °C, 57 %	AC 120V	Easton Tsai
Power Spectral Density	24 °C, 57 %	AC 120V	Easton Tsai

1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

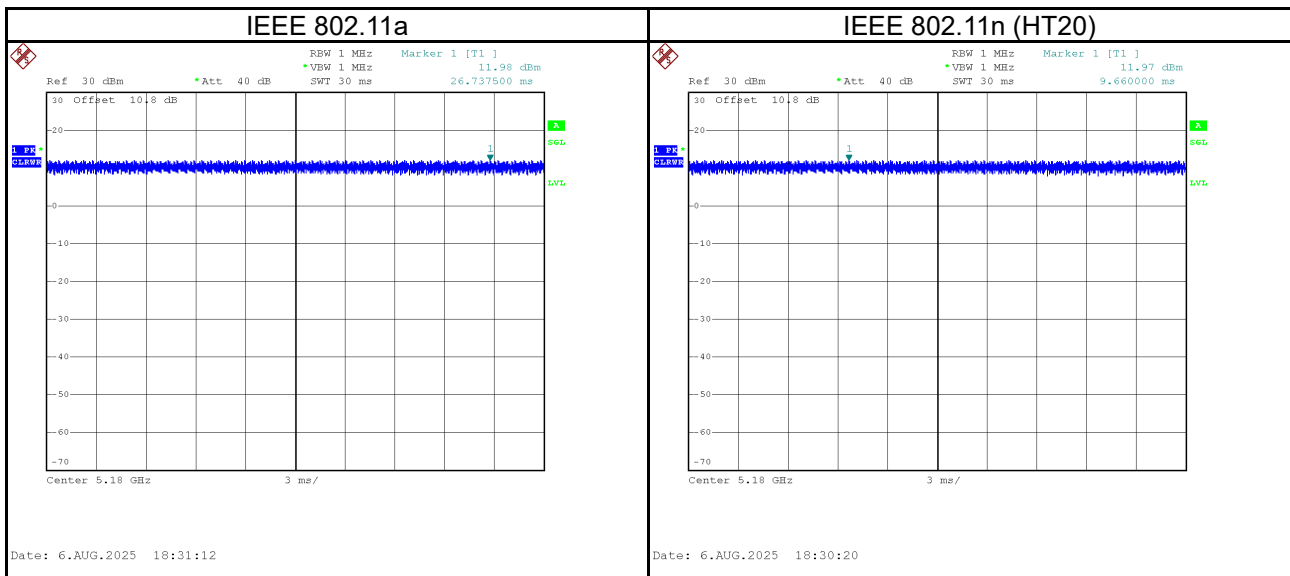
Test Software	RTL8723FU V1.0001.1020.2018			
UNII-1				
Mode	5180 MHz	5200 MHz	5240 MHz	Data Rate
IEEE 802.11a	95	95	95	6 Mbps
IEEE 802.11n (HT20)	95	95	95	MCS 0
UNII-3				
Mode	5745 MHz	5785 MHz	5825 MHz	Data Rate
IEEE 802.11a	127	127	127	6 Mbps
IEEE 802.11n (HT20)	127	127	127	MCS 0

1.5 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

Remark	Delta 2			Delta 3	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11a	26.738	1	26.738	26.738	100.00%	0.00
IEEE 802.11n (HT20)	9.660	1	9.660	9.660	100.00%	0.00



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Display
Model Name	VS20861
Brand Name	ViewSonic
Model Difference	N/A
Power Source	AC Mains.
Power Rating	I/P: 100~240V~, 50/60Hz
Products Covered	1 * USB Cable 1 * HDMI Cable 1 * Power Cable
Operation Band	UNII-1: 5150 MHz to 5250 MHz UNII-3: 5725 MHz to 5850 MHz
Operation Frequency	UNII-1: 5180 MHz to 5240 MHz UNII-3: 5745 MHz to 5825 MHz
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: Up to 72.2 Mbps
Output Power Max. for UNII-1	IEEE 802.11a: 17.64 dBm (0.0581 W) IEEE 802.11n (HT20): 17.12 dBm (0.0515 W)
Output Power Max. for UNII-3	IEEE 802.11a: 24.41 dBm (0.2761 W) IEEE 802.11n (HT20): 24.34 dBm (0.2716 W)
Test Model	VS20861
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

IEEE 802.11a IEEE 802.11n (HT20)	
UNII-1	
Channel	Frequency (MHz)
36	5180
40	5200
44	5220
48	5240

IEEE 802.11a IEEE 802.11n (HT20)	
UNII-3	
Channel	Frequency (MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

(3) Table for Filed Antenna:

Antenna	Brand	Model Name	Type	Connector	Frequency (MHz)	Gain (dBi)
1	Wistron	VS20861	PCB	I-PEX	2400-2500	2.40
					5150-5250	2.55
					5725-5850	2.13

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11a	36	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11a	36/48 149/165	Bandedge
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11a	36/40/48 149/157/165	Harmonic
	TX Mode_IEEE 802.11n (HT20)		
Transmitter Radiated Emissions (above 18GHz)	TX Mode_IEEE 802.11a	36	-
Bandwidth & Power Spectral Density	TX Mode_IEEE 802.11a	36/40/48 149/157/165	-
	TX Mode_IEEE 802.11n (HT20)		
Output Power	TX Mode_IEEE 802.11a	36/40/48 149/157/165	-
	TX Mode_IEEE 802.11n (HT20)		

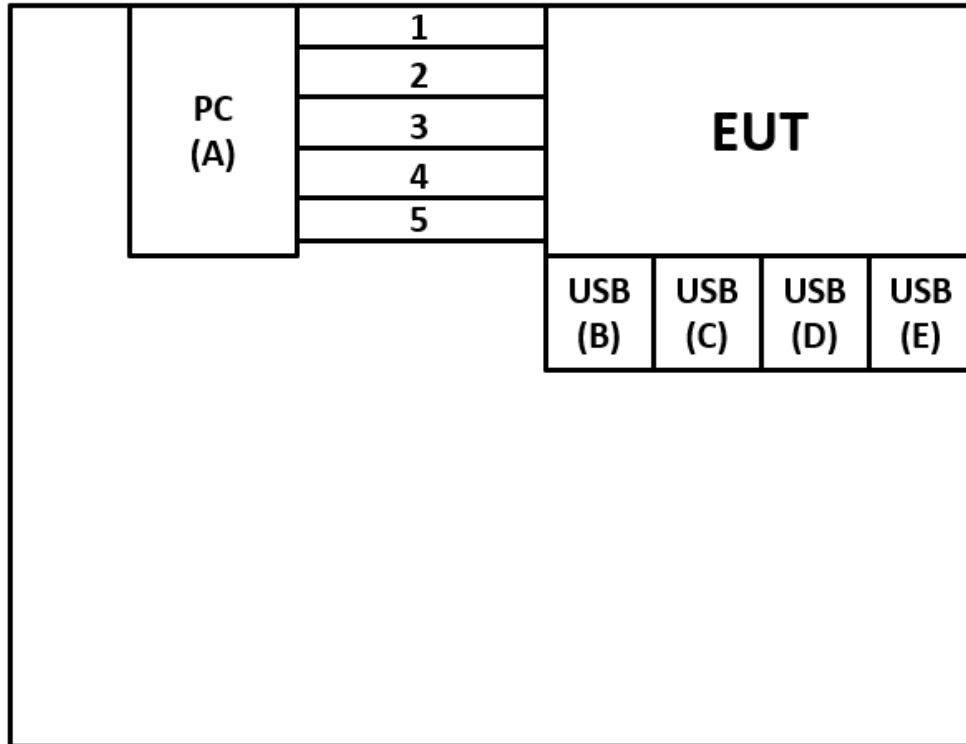
NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.

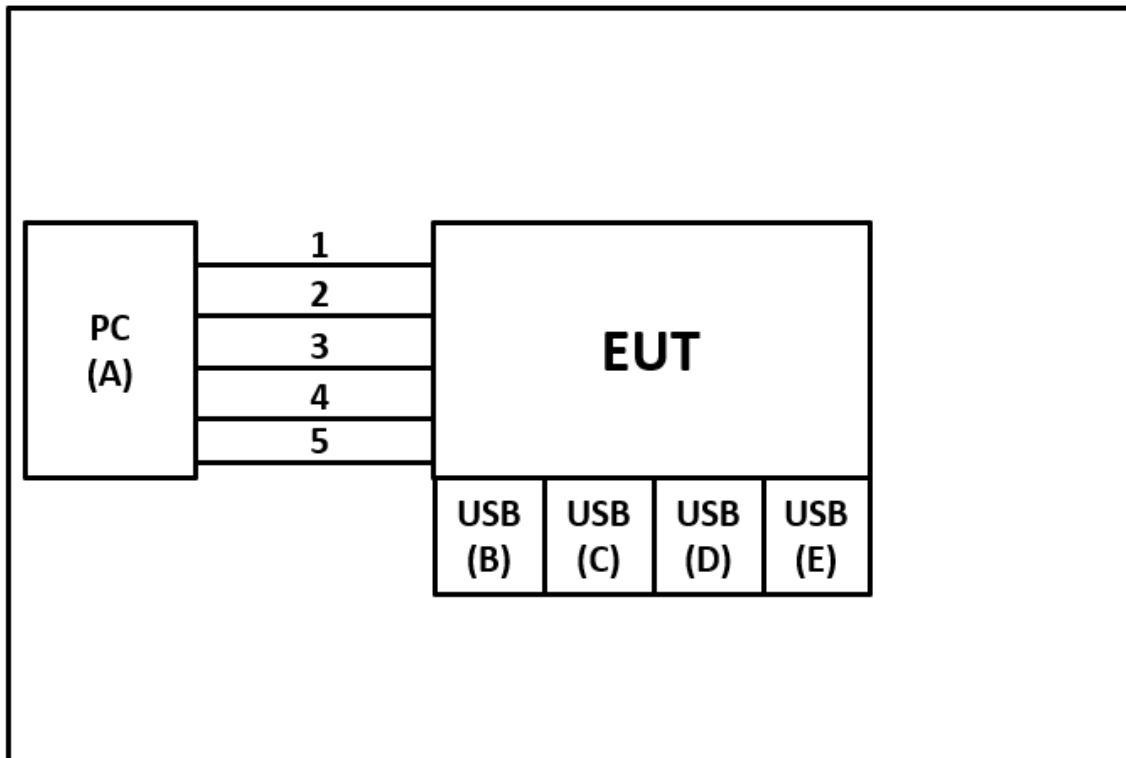
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC Power Line Conducted Emissions Test



Radiated Emissions Test



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	PC	N/A	N/A	N/A	Furnished by test lab.
B	USB	N/A	N/A	N/A	Furnished by test lab.
C	USB	N/A	N/A	N/A	Furnished by test lab.
D	USB	N/A	N/A	N/A	Furnished by test lab.
E	USB	N/A	N/A	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1.8m	USB Cable	Supplied by test requester
2	N/A	N/A	1.8m	HDMI Cable	Supplied by test requester
3	N/A	N/A	1.8m	Power Cable	Supplied by test requester
4	N/A	N/A	2m	DP Cable	Furnished by test lab.
5	N/A	N/A	2m	VGA Cable	Furnished by test lab.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
Margin Level = Measurement Value – Limit Value
Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
All other support equipment were powered from an additional LISN(s).
The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
The end of the cable will be terminated, using the correct terminating impedance.
The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT TEST PHOTO.

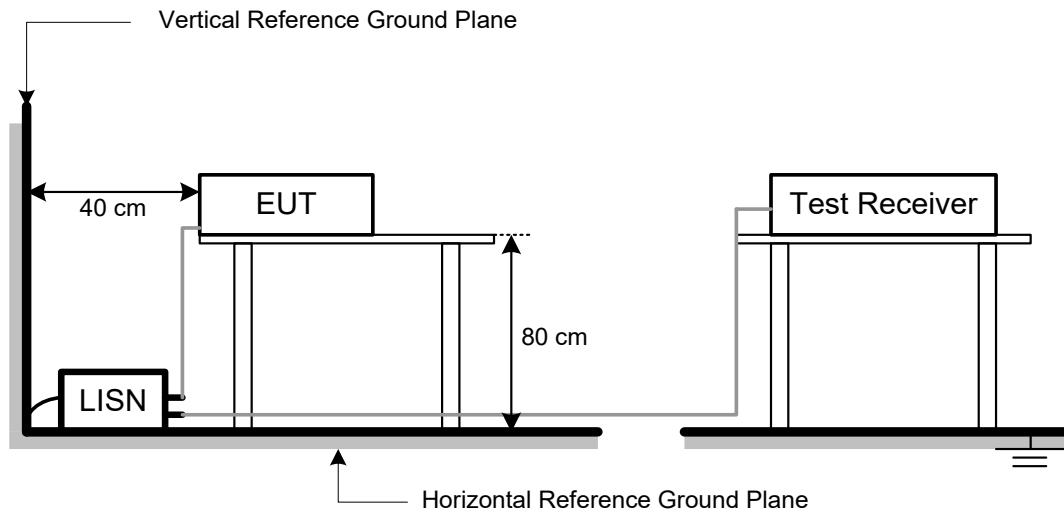
NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 (NOTE 2)	68.3
	10 (NOTE 2)	105.3
	15.6 (NOTE 2)	110.9
	27 (NOTE 2)	122.3

NOTE:

- (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

- (2) According to FCC 16-24, 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.

- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level (dBμV)		Correct Factor (dB/m)		Measurement Value (dBμV/m)
36.23	+	-11.97	=	24.26

Measurement Value (dBμV/m)		Limit Value (dBμV/m)		Margin Level (dB)
24.26	-	40	=	-15.74

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2 TEST PROCEDURE

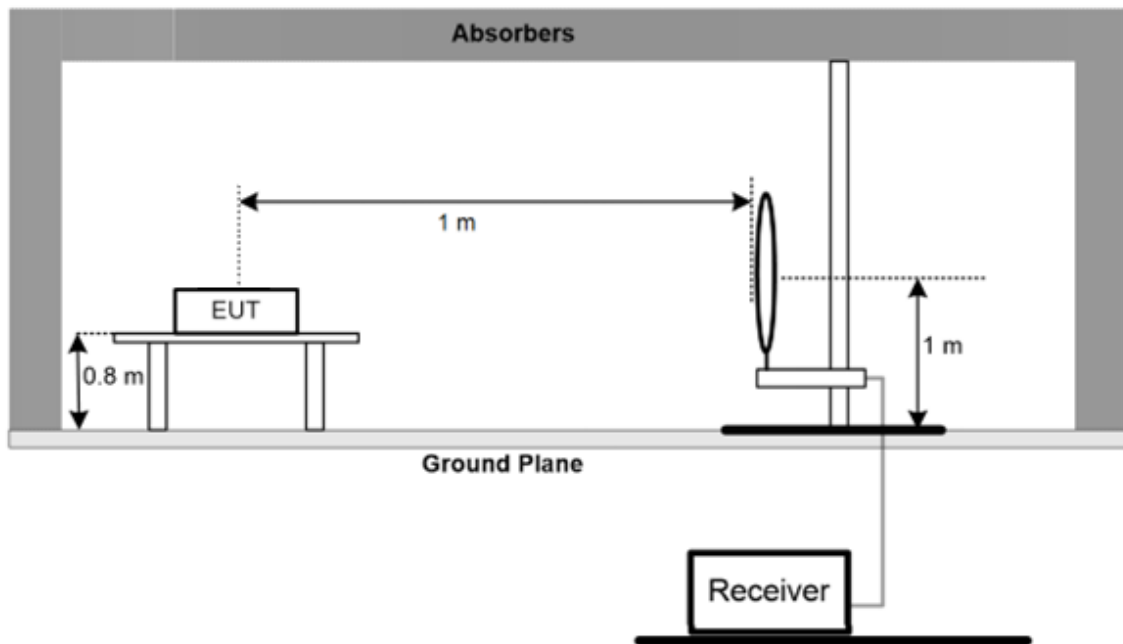
- The measuring distance of 1 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 30MHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

4.3 DEVIATION FROM TEST STANDARD

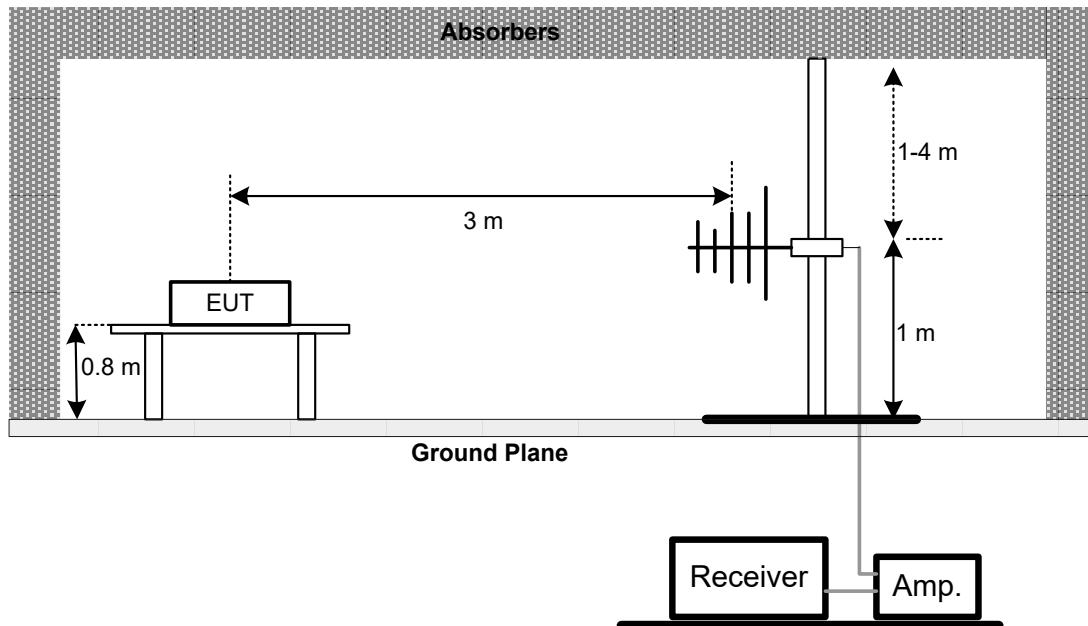
No deviation.

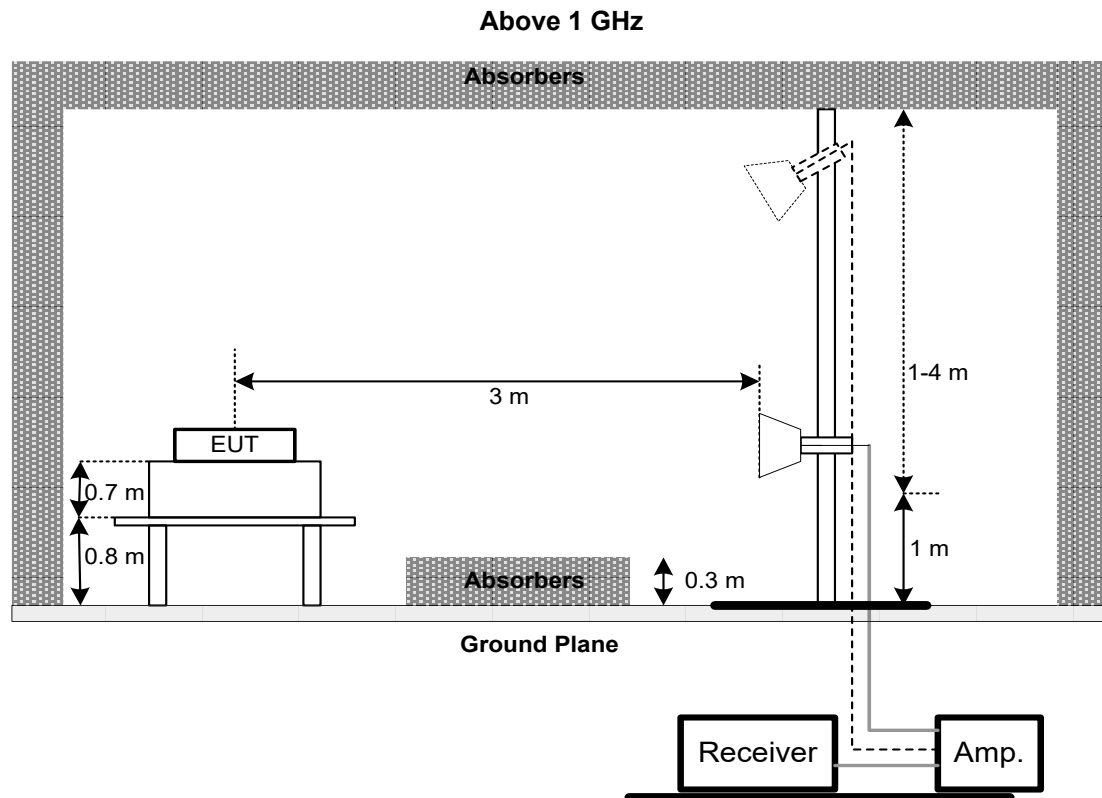
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX C.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX D.

NOTE:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5 BANDWIDTH TEST

5.1 LIMIT

Section	Test Item	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	5150-5250
		5250-5350
		5470-5725
	Minimum 500 kHz 6 dB Bandwidth	5725-5850

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz(Bandwidth 20 MHz) 1 MHz(Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz(Bandwidth 20 MHz) 3 MHz(Bandwidth 40 MHz and 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX E.

6 OUTPUT POWER TEST

6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Maximum Output Power	Fixed: 1 Watt (30 dBm)	5150-5250
		Mobile and portable: 250 mW (24 dBm)	
		250 mW (24 dBm)	5250-5350
		1 Watt (30dBm)	5470-5725
			5725-5850

Note: The maximum e.i.r.p at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW(21 dBm).

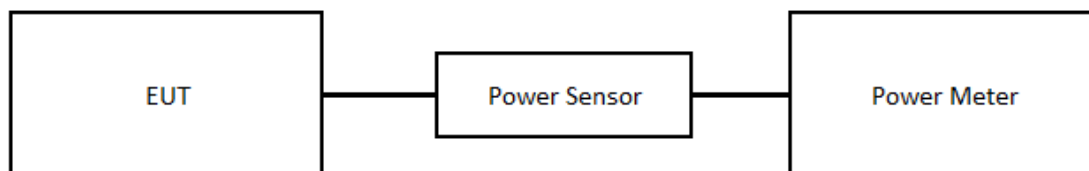
6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum peak conducted output power was performed in accordance with method of clause E. 3. a) FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
 - Method PM (Measurement using an RF average power meter):
 - Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied
The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
 - If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
 - Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
 - Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX F.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	Other than Mobile and portable: 17 dBm/MHz	5150-5250
		Mobile and portable: 11 dBm/MHz	
		11 dBm/MHz	5250-5350
		30 dBm/500 kHz	5470-5725
			5725-5850

7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz
VBW	≥ 3 MHz
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX G.

8 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101497	2025/5/20	2026/5/19
2	Test Cable	EMCI	EMC400-BM-BM-5000	170501	2025/7/31	2026/7/30
3	EMI Test Receiver	R&S	ESR3	102950	2025/4/14	2026/4/13
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2024/9/5	2025/9/4
2	Preamplifier	EMCI	EMC118A45SE	980819	2025/3/5	2026/3/4
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2024/9/4	2025/9/3
4	Preamplifier	EMCI	EMC001340	980579	2024/9/4	2025/9/3
5	Test Cable	EMCI	EMC104-SM-1000	180809	2025/3/5	2026/3/4
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2025/3/5	2026/3/4
7	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2025/3/5	2026/3/4
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2025/2/19	2026/2/18
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2024/9/9	2025/9/8
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2025/5/9	2026/5/8
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2025/5/15	2026/5/14
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2025/7/4	2026/7/3
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2025/7/4	2026/7/3
14	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2025/3/12	2026/3/11
15	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2025/3/12	2026/3/11
16	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2025/3/27	2026/3/26

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Single Channel Pk Power Meter	Keysight	N1911A	MY63450010	2024/9/16	2025/9/15
2	Peak and Average Power Sensor	Keysight	E9327	MY63310007	2024/9/16	2025/9/15

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2025/3/27	2026/3/26

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

9 EUT TEST PHOTO

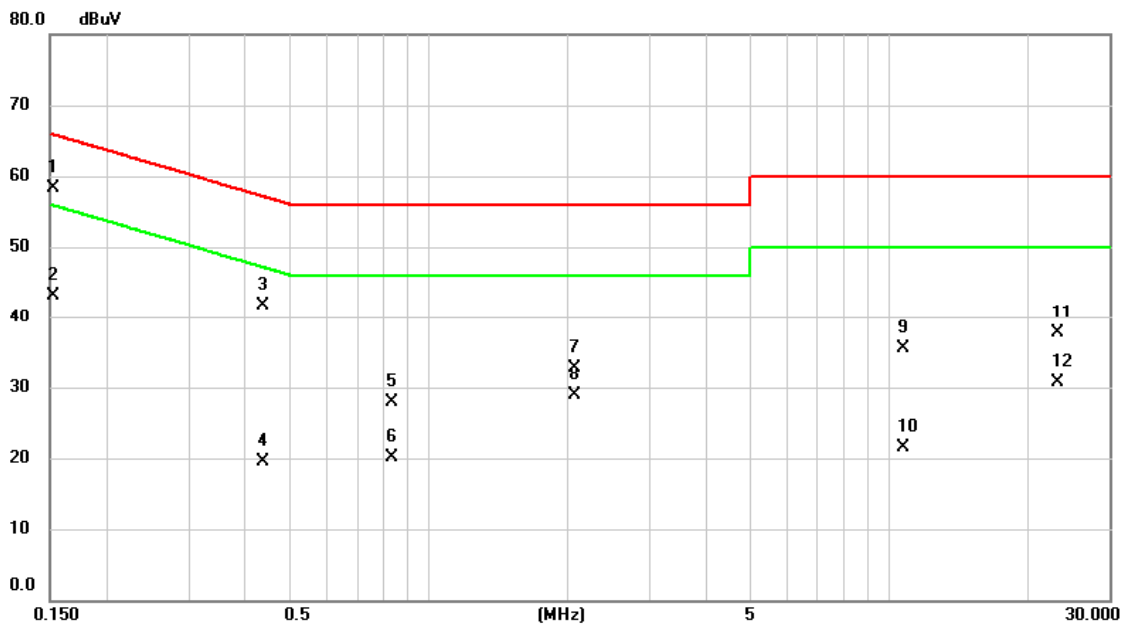
Please refer to document Appendix No.: TP-2507T096-FCCP-1 (APPENDIX-TEST PHOTOS).

10 EUT PHOTOS

Please refer to document Appendix No.: EP-2507T096-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2025/9/16
Test Frequency	-	Phase	Line



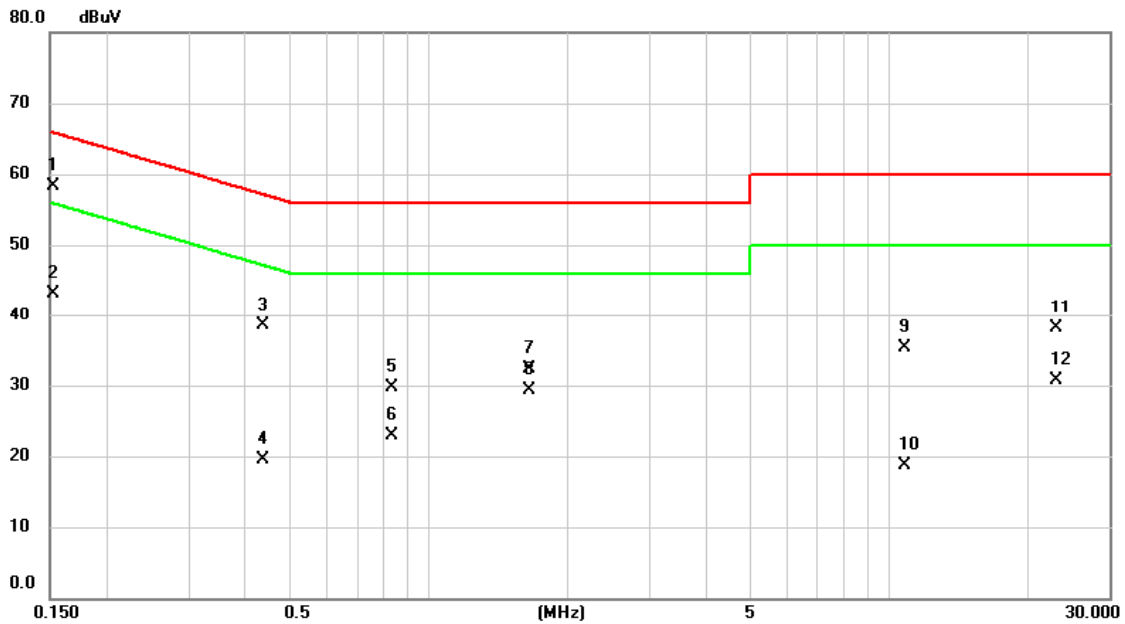
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1522	48.81	9.58	58.39	65.88	-7.49	QP	
2		0.1522	33.52	9.58	43.10	55.88	-12.78	AVG	
3		0.4380	32.09	9.54	41.63	57.10	-15.47	QP	
4		0.4380	10.06	9.54	19.60	47.10	-27.50	AVG	
5		0.8317	18.32	9.56	27.88	56.00	-28.12	QP	
6		0.8317	10.59	9.56	20.15	46.00	-25.85	AVG	
7		2.0715	23.06	9.60	32.66	56.00	-23.34	QP	
8		2.0715	19.35	9.60	28.95	46.00	-17.05	AVG	
9		10.7520	25.61	9.87	35.48	60.00	-24.52	QP	
10		10.7520	11.72	9.87	21.59	50.00	-28.41	AVG	
11		23.2080	27.82	9.93	37.75	60.00	-22.25	QP	
12		23.2080	20.71	9.93	30.64	50.00	-19.36	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	Normal	Tested Date	2025/9/16
Test Frequency	-	Phase	Neutral



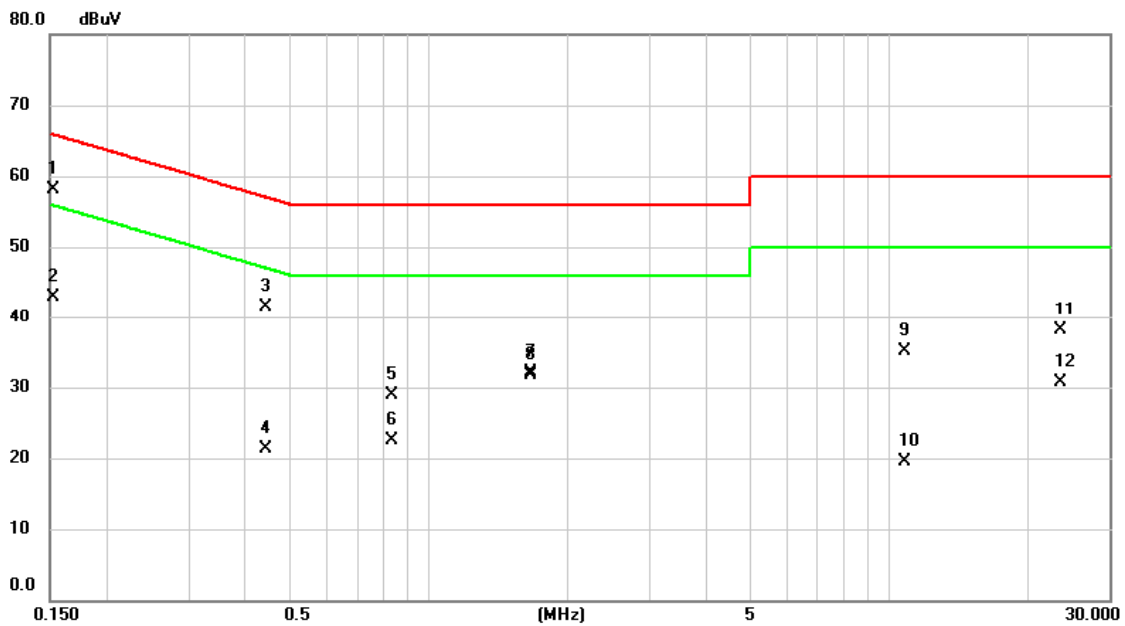
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1522	48.79	9.51	58.30	65.88	-7.58	QP	
2		0.1522	33.63	9.51	43.14	55.88	-12.74	AVG	
3		0.4380	28.93	9.51	38.44	57.10	-18.66	QP	
4		0.4380	9.92	9.51	19.43	47.10	-27.67	AVG	
5		0.8295	20.11	9.54	29.65	56.00	-26.35	QP	
6		0.8295	13.42	9.54	22.96	46.00	-23.04	AVG	
7		1.6553	22.66	9.57	32.23	56.00	-23.77	QP	
8		1.6553	19.82	9.57	29.39	46.00	-16.61	AVG	
9		10.7924	25.42	9.84	35.26	60.00	-24.74	QP	
10		10.7924	8.86	9.84	18.70	50.00	-31.30	AVG	
11		22.9380	28.03	9.99	38.02	60.00	-21.98	QP	
12		22.9380	20.71	9.99	30.70	50.00	-19.30	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2025/9/16
Test Frequency	-	Phase	Line



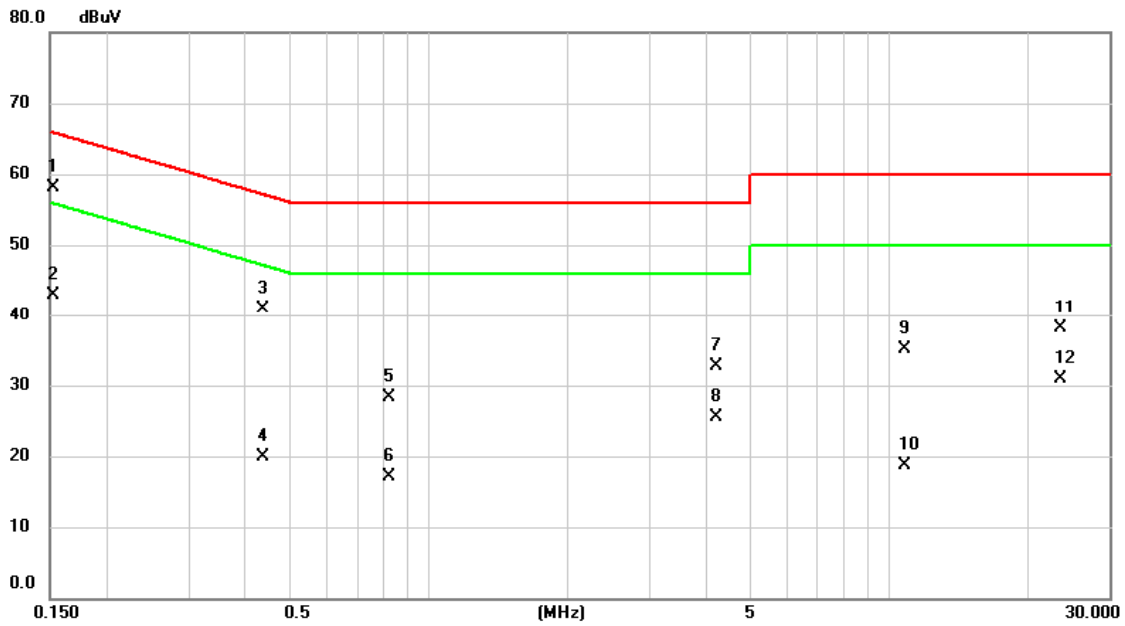
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1522	48.60	9.58	58.18	65.88	-7.70	QP	
2		0.1522	33.39	9.58	42.97	55.88	-12.91	AVG	
3		0.4425	31.87	9.54	41.41	57.01	-15.60	QP	
4		0.4425	11.69	9.54	21.23	47.01	-25.78	AVG	
5		0.8295	19.35	9.56	28.91	56.00	-27.09	QP	
6		0.8295	12.97	9.56	22.53	46.00	-23.47	AVG	
7		1.6575	22.46	9.59	32.05	56.00	-23.95	QP	
8		1.6575	22.05	9.59	31.64	46.00	-14.36	AVG	
9		10.7903	25.27	9.87	35.14	60.00	-24.86	QP	
10		10.7903	9.63	9.87	19.50	50.00	-30.50	AVG	
11		23.4713	28.17	9.92	38.09	60.00	-21.91	QP	
12		23.4713	20.84	9.92	30.76	50.00	-19.24	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2025/9/16
Test Frequency	-	Phase	Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1522	48.64	9.51	58.15	65.88	-7.73	QP	
2		0.1522	33.46	9.51	42.97	55.88	-12.91	AVG	
3		0.4380	31.47	9.51	40.98	57.10	-16.12	QP	
4		0.4380	10.46	9.51	19.97	47.10	-27.13	AVG	
5		0.8227	18.80	9.54	28.34	56.00	-27.66	QP	
6		0.8227	7.48	9.54	17.02	46.00	-28.98	AVG	
7		4.1933	22.97	9.68	32.65	56.00	-23.35	QP	
8		4.1933	15.88	9.68	25.56	46.00	-20.44	AVG	
9		10.7948	25.35	9.84	35.19	60.00	-24.81	QP	
10		10.7948	8.84	9.84	18.68	50.00	-31.32	AVG	
11		23.4848	28.22	9.98	38.20	60.00	-21.80	QP	
12		23.4848	20.89	9.98	30.87	50.00	-19.13	AVG	

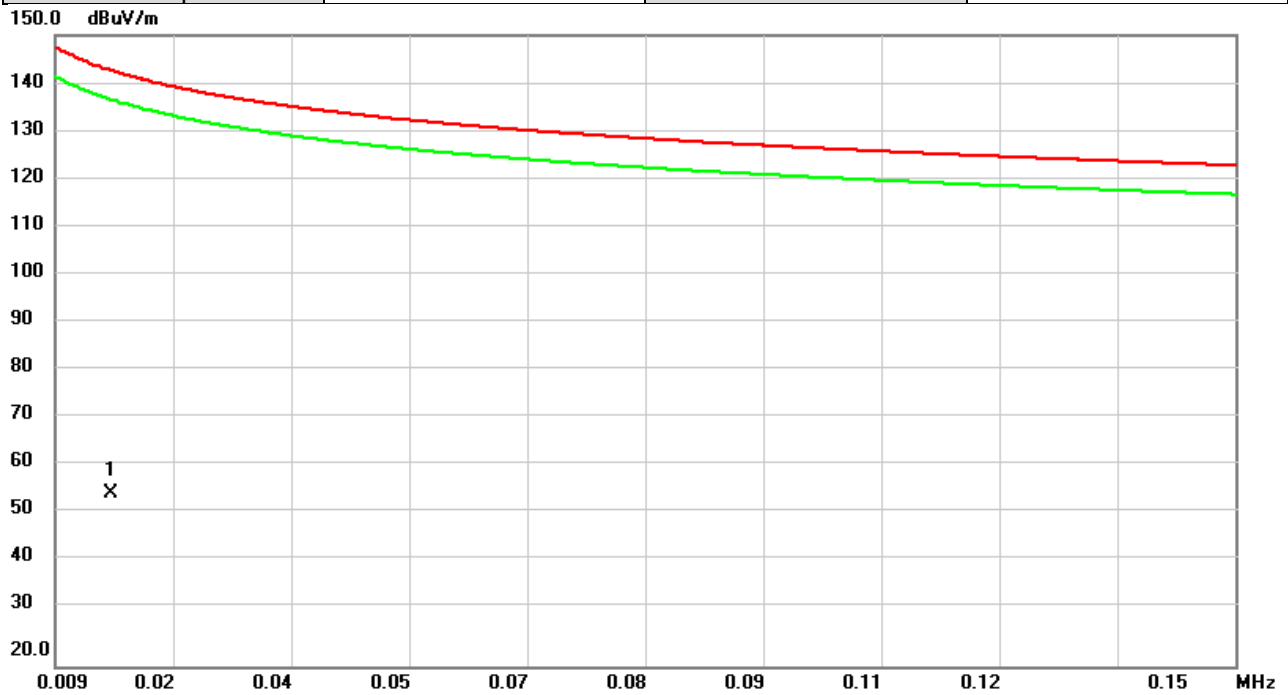
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

Test Mode	IEEE 802.11a	Test Date	2025/8/7
Test Frequency	5180MHz	Polarization	Vertical
Temp	28°C	Hum.	53%

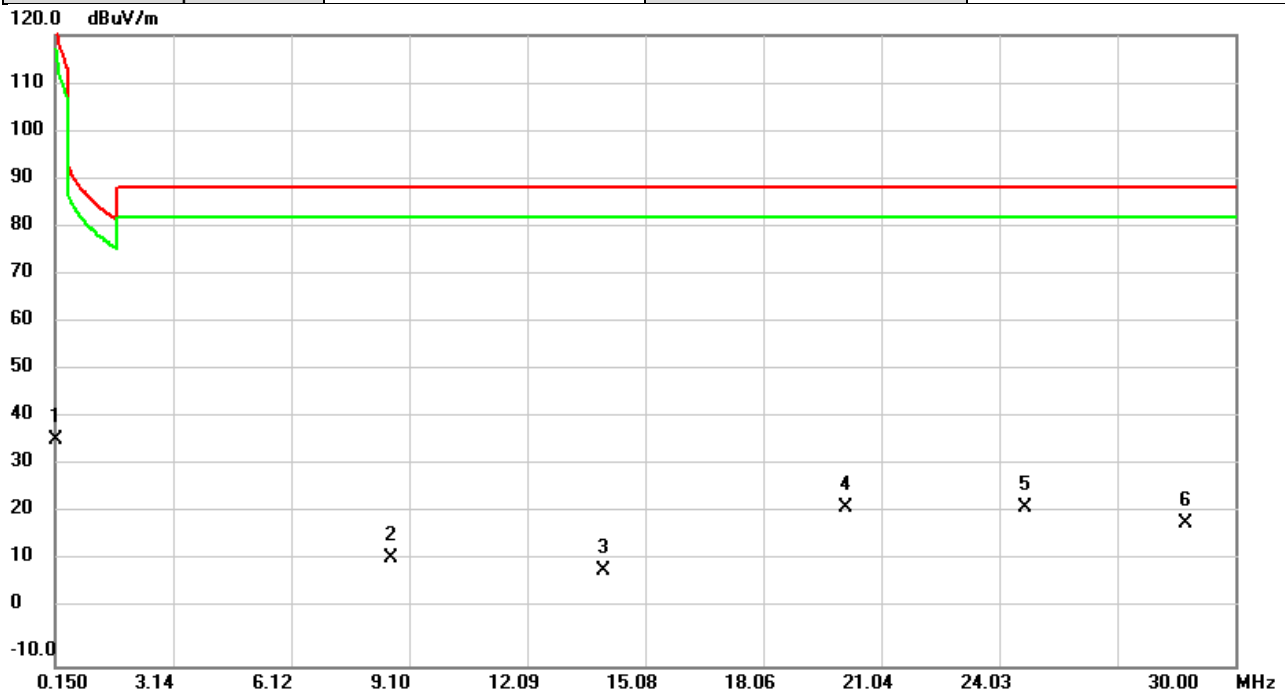


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0157	22.15	33.57	55.72	142.77	-87.05	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/7
Test Frequency	5180MHz	Polarization	Vertical
Temp	28°C	Hum.	53%

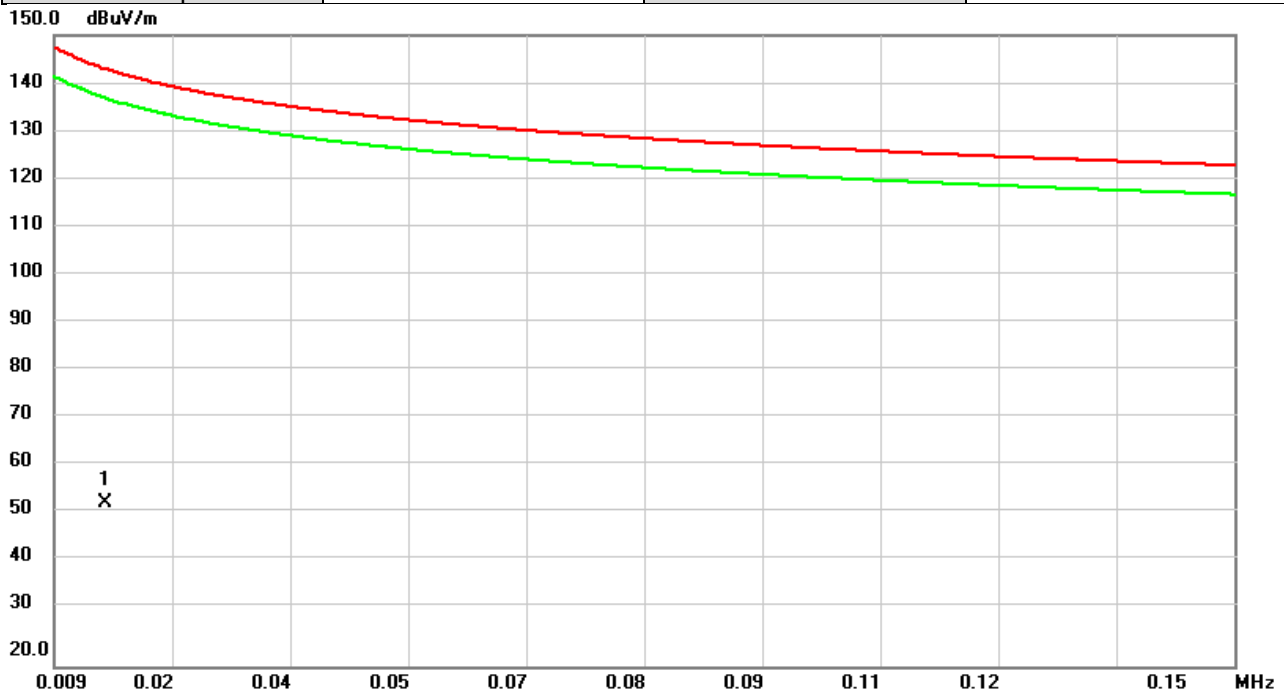


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	22.77	13.97	36.74	123.16	-86.42	AVG	
2		8.6453	15.64	-3.37	12.27	88.62	-76.35	QP	
3		14.0382	13.08	-3.36	9.72	88.62	-78.90	QP	
4		20.1474	26.48	-3.90	22.58	88.62	-66.04	QP	
5	*	24.6727	25.81	-3.01	22.80	88.62	-65.82	QP	
6		28.7542	21.51	-2.22	19.29	88.62	-69.33	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/7
Test Frequency	5180MHz	Polarization	Horizontal
Temp	28°C	Hum.	53%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0151	19.95	33.78	53.73	143.11	-89.38	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/7
Test Frequency	5180MHz	Polarization	Horizontal
Temp	28°C	Hum.	53%



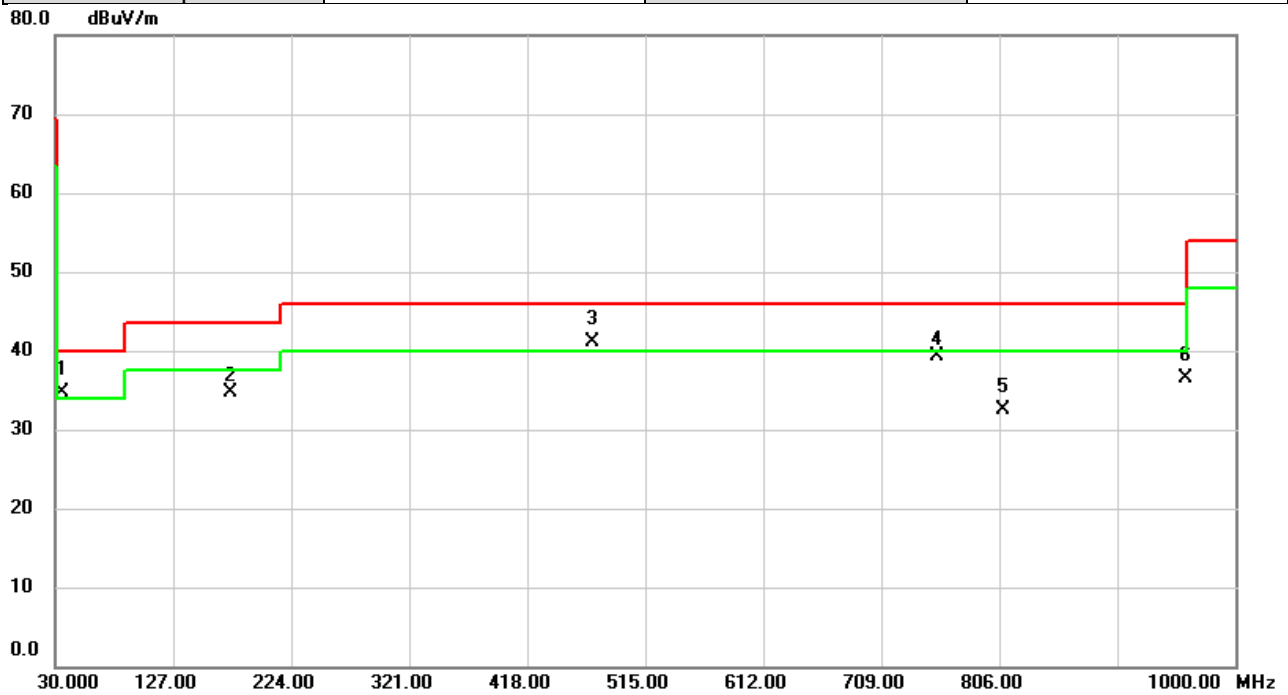
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	21.95	13.97	35.92	123.16	-87.24	AVG	
2	*	2.3877	20.61	-2.54	18.07	88.62	-70.55	QP	
3		4.4304	20.14	-4.21	15.93	88.62	-72.69	QP	
4		20.0131	19.30	-3.93	15.37	88.62	-73.25	QP	
5		24.2658	20.78	-3.10	17.68	88.62	-70.94	QP	
6		28.5492	18.21	-2.25	15.96	88.62	-72.66	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

Test Mode	IEEE 802.11a	Test Date	2025/8/7
Test Frequency	5180MHz	Polarization	Vertical
Temp	28°C	Hum.	53%

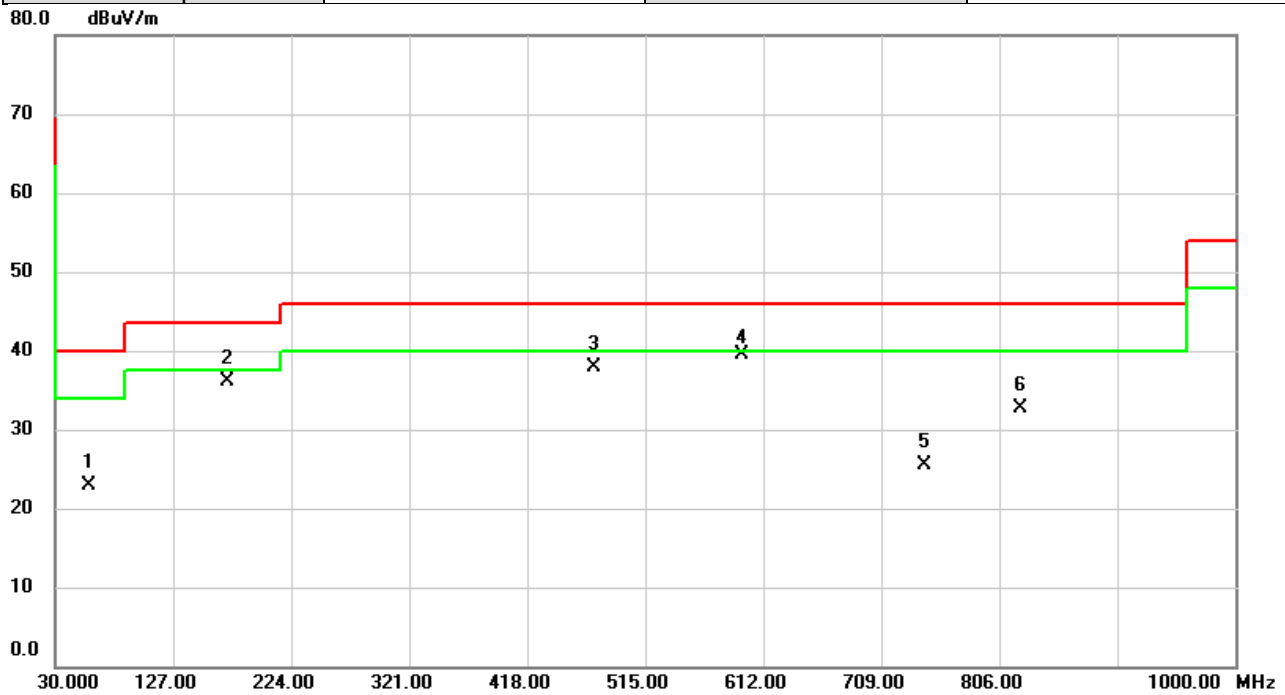


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	36.1110	47.21	-12.50	34.71	40.00	-5.29	QP	
2		173.9480	47.40	-12.61	34.79	43.50	-8.71	peak	
3	*	471.9320	47.87	-6.68	41.19	46.00	-4.81	QP	
4		755.3983	40.59	-1.30	39.29	46.00	-6.71	peak	
5		808.6836	33.24	-0.74	32.50	46.00	-13.50	QP	
6		959.8097	34.86	1.59	36.45	46.00	-9.55	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/7
Test Frequency	5180MHz	Polarization	Horizontal
Temp	28°C	Hum.	53%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		57.4833	34.85	-12.03	22.82	40.00	-17.18	QP	
2		171.1996	48.55	-12.36	36.19	43.50	-7.31	QP	
3		472.4493	44.62	-6.67	37.95	46.00	-8.05	QP	
4	*	593.9903	43.85	-4.33	39.52	46.00	-6.48	peak	
5		744.0816	26.95	-1.48	25.47	46.00	-20.53	QP	
6		823.5246	33.21	-0.51	32.70	46.00	-13.30	QP	

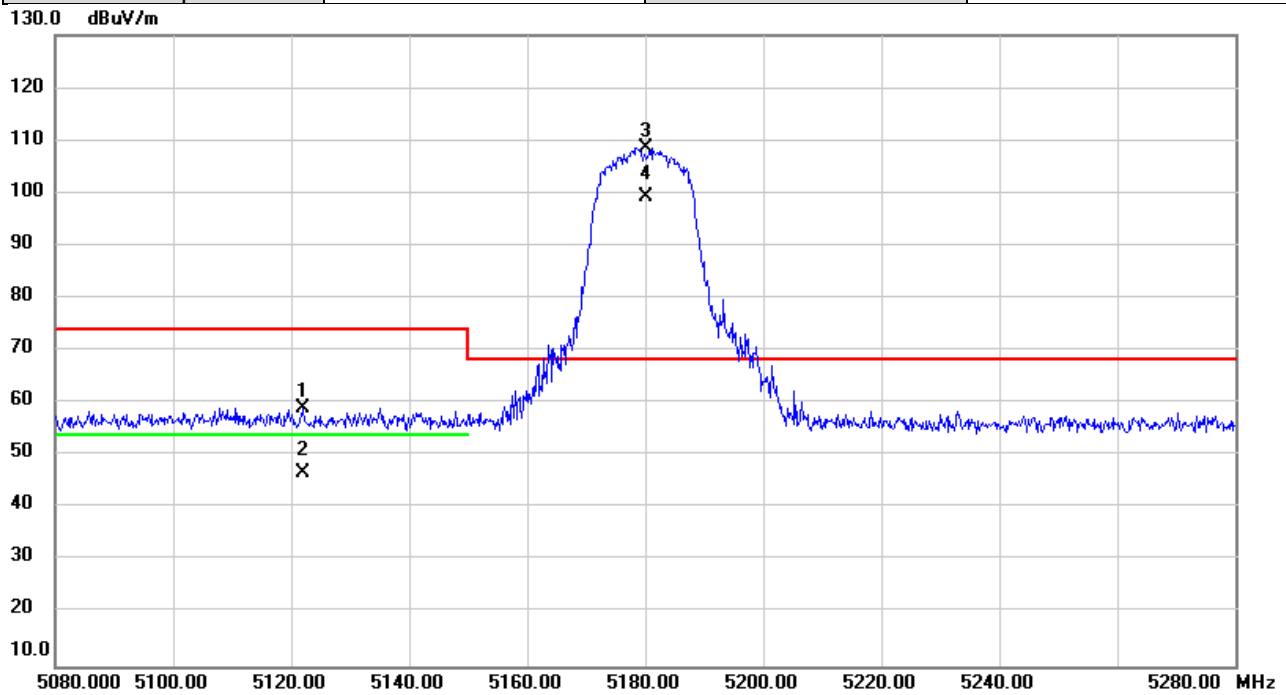
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D RADIATED EMISSIONS - ABOVE 1 GHZ

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5180MHz	Polarization	Vertical
Temp	26°C	Hum.	61%



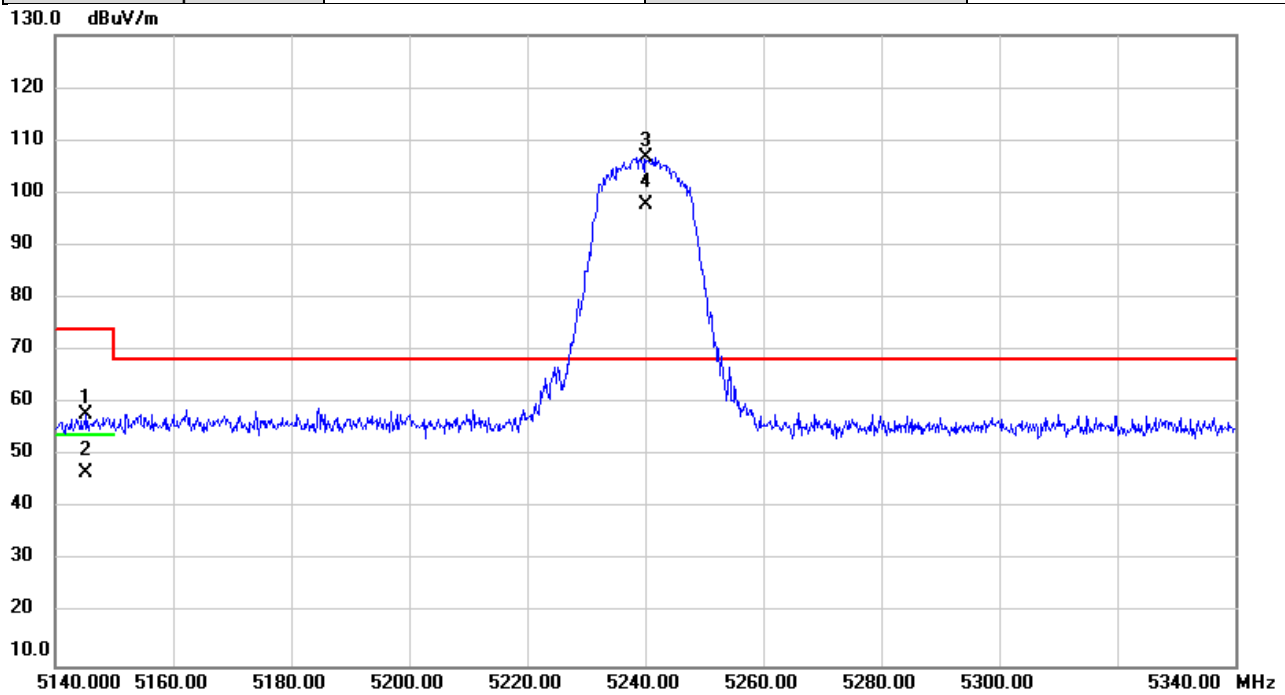
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5122.007	56.26	2.88	59.14	74.00	-14.86	peak	
2		5122.007	43.93	2.88	46.81	54.00	-7.19	AVG	
3	*	5180.000	105.65	2.88	108.53	68.20	40.33	peak	NoLimit
4	X	5180.000	96.25	2.88	99.13	68.20	30.93	AVG	NoLimit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5240MHz	Polarization	Vertical
Temp	26°C	Hum.	61%



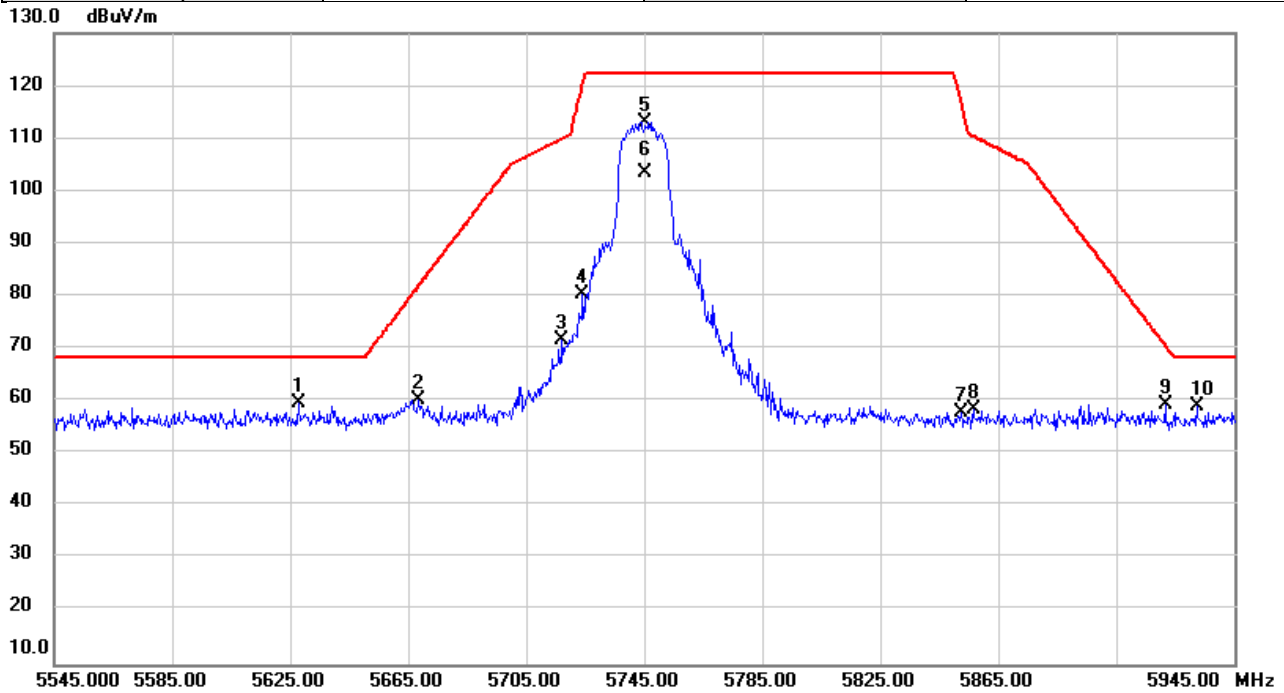
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5145.247	55.12	2.87	57.99	74.00	-16.01	peak	
2		5145.247	43.87	2.87	46.74	54.00	-7.26	AVG	
3	*	5240.000	103.80	2.91	106.71	68.20	38.51	peak	NoLimit
4	X	5240.000	94.82	2.91	97.73	68.20	29.53	AVG	NoLimit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5745MHz	Polarization	Vertical
Temp	26°C	Hum.	61%



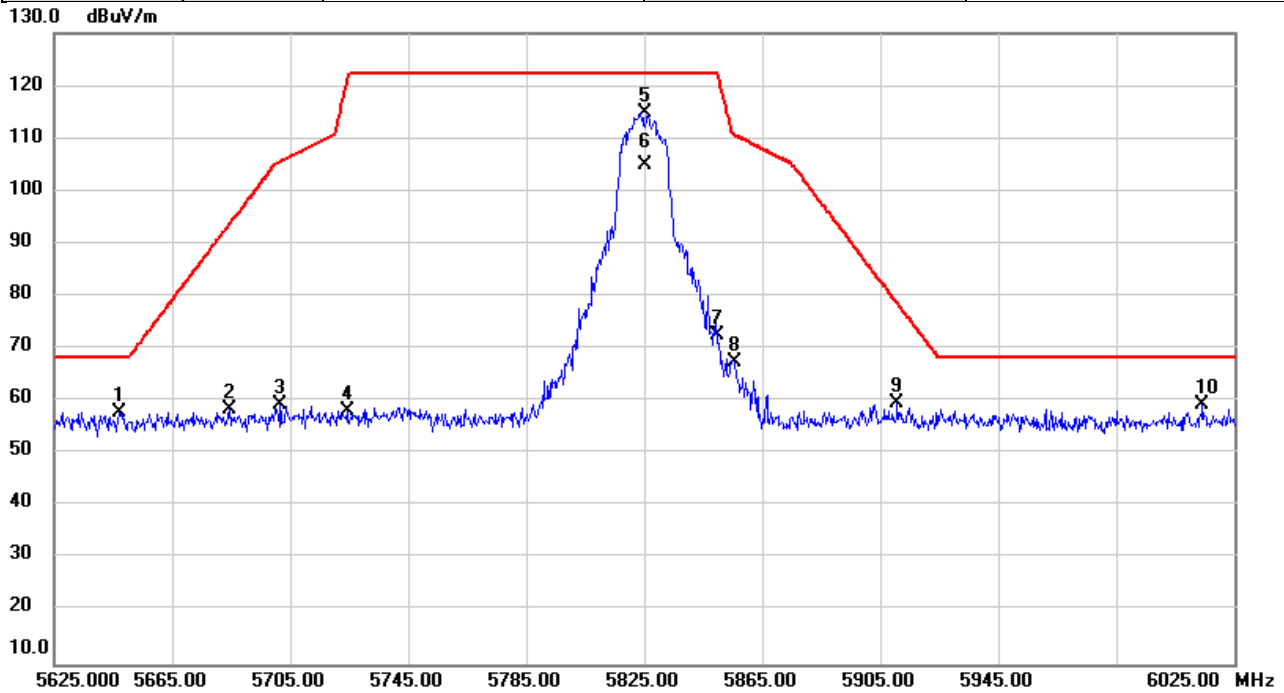
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5628.160	56.30	3.21	59.51	68.20	-8.69	peak	
2		5668.707	57.10	3.27	60.37	82.08	-21.71	peak	
3		5717.080	68.42	3.36	71.78	109.98	-38.20	peak	
4		5724.120	76.96	3.36	80.32	120.19	-39.87	peak	
5		5745.000	109.77	3.40	113.17	122.20	-9.03	peak	NoLimit
6		5745.000	99.91	3.40	103.31	122.20	-18.89	AVG	NoLimit
7		5852.240	54.15	3.58	57.73	117.09	-59.36	peak	
8		5856.480	54.75	3.59	58.34	110.38	-52.04	peak	
9		5921.547	55.68	3.71	59.39	70.75	-11.36	peak	
10		5932.493	55.38	3.71	59.09	68.20	-9.11	peak	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5825MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

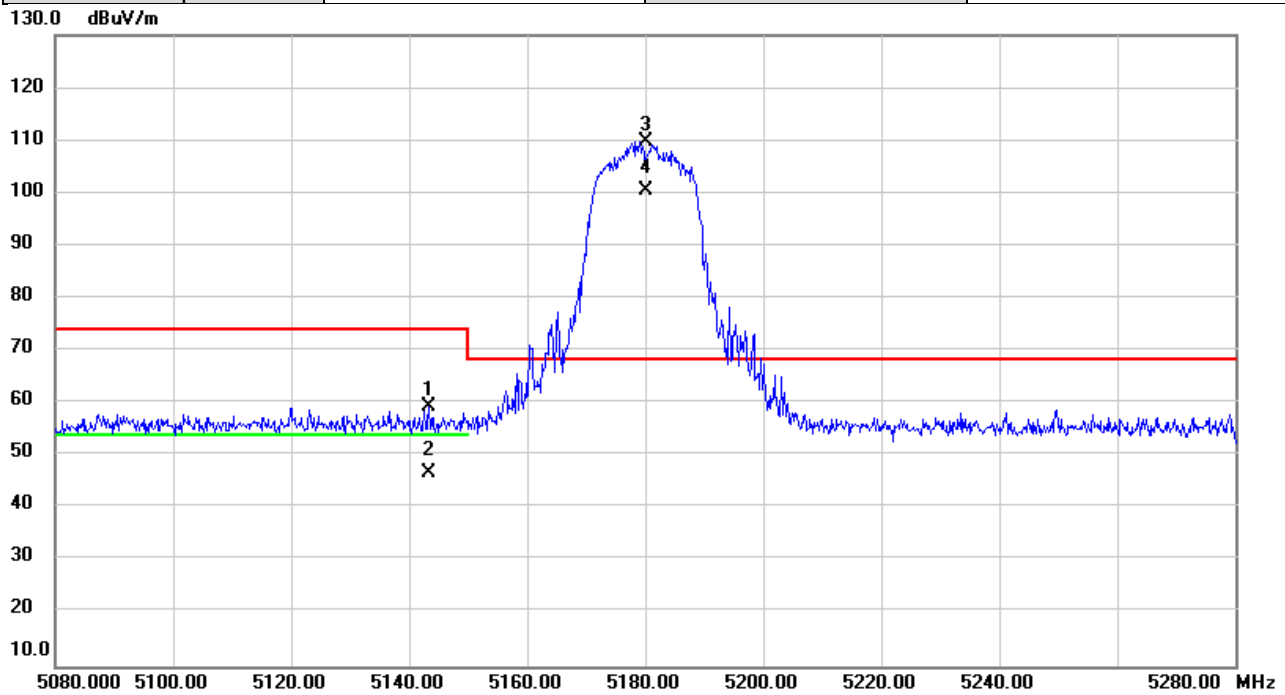


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5647.187	54.63	3.24	57.87	68.20	-10.33	peak	
2		5684.520	55.18	3.30	58.48	93.78	-35.30	peak	
3		5701.747	55.98	3.33	59.31	105.69	-46.38	peak	
4		5724.440	54.79	3.36	58.15	120.92	-62.77	peak	
5	*	5825.000	111.20	3.54	114.74	122.20	-7.46	peak	NoLimit
6		5825.000	101.41	3.54	104.95	122.20	-17.25	AVG	NoLimit
7		5849.840	69.03	3.58	72.61	122.20	-49.59	peak	
8		5855.800	63.72	3.59	67.31	110.58	-43.27	peak	
9		5910.760	55.89	3.68	59.57	78.71	-19.14	peak	
10		6014.280	55.46	3.90	59.36	68.20	-8.84	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5180MHz	Polarization	Vertical
Temp	26°C	Hum.	61%



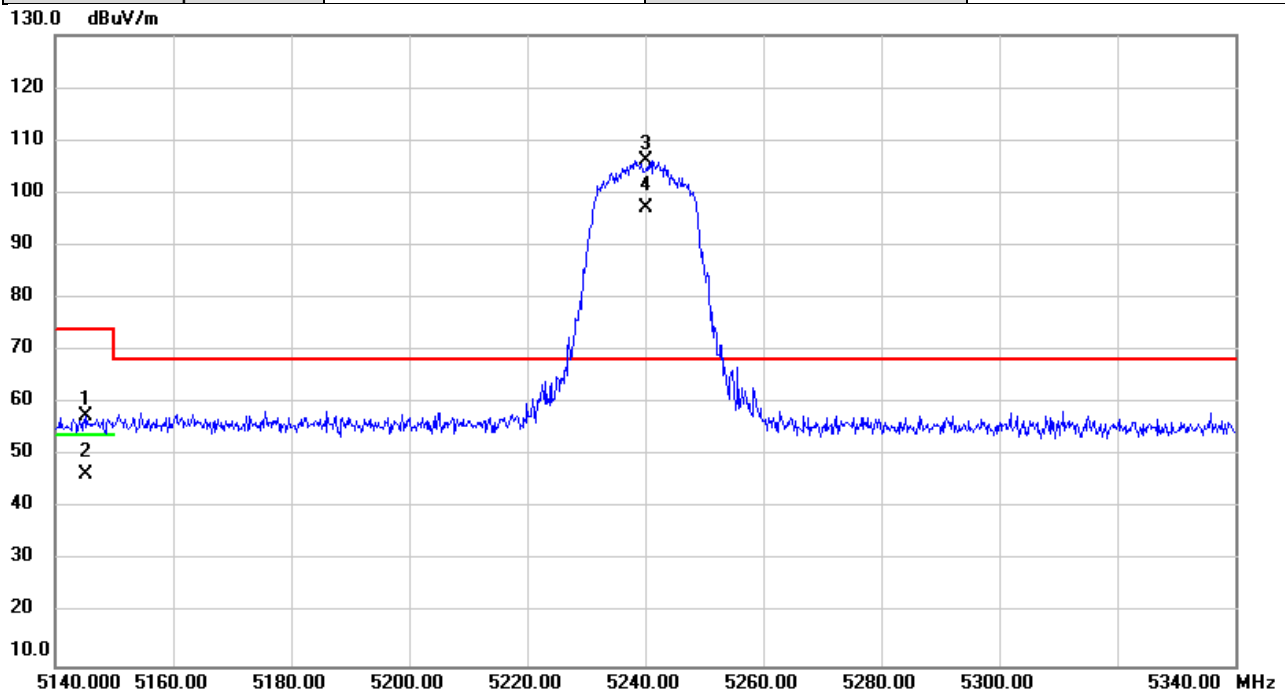
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5143.293	56.43	2.87	59.30	74.00	-14.70	peak	
2		5143.293	43.92	2.87	46.79	54.00	-7.21	AVG	
3	*	5180.000	107.00	2.88	109.88	68.20	41.68	peak	NoLimit
4	X	5180.000	97.46	2.88	100.34	68.20	32.14	AVG	NoLimit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5240MHz	Polarization	Vertical
Temp	26°C	Hum.	61%



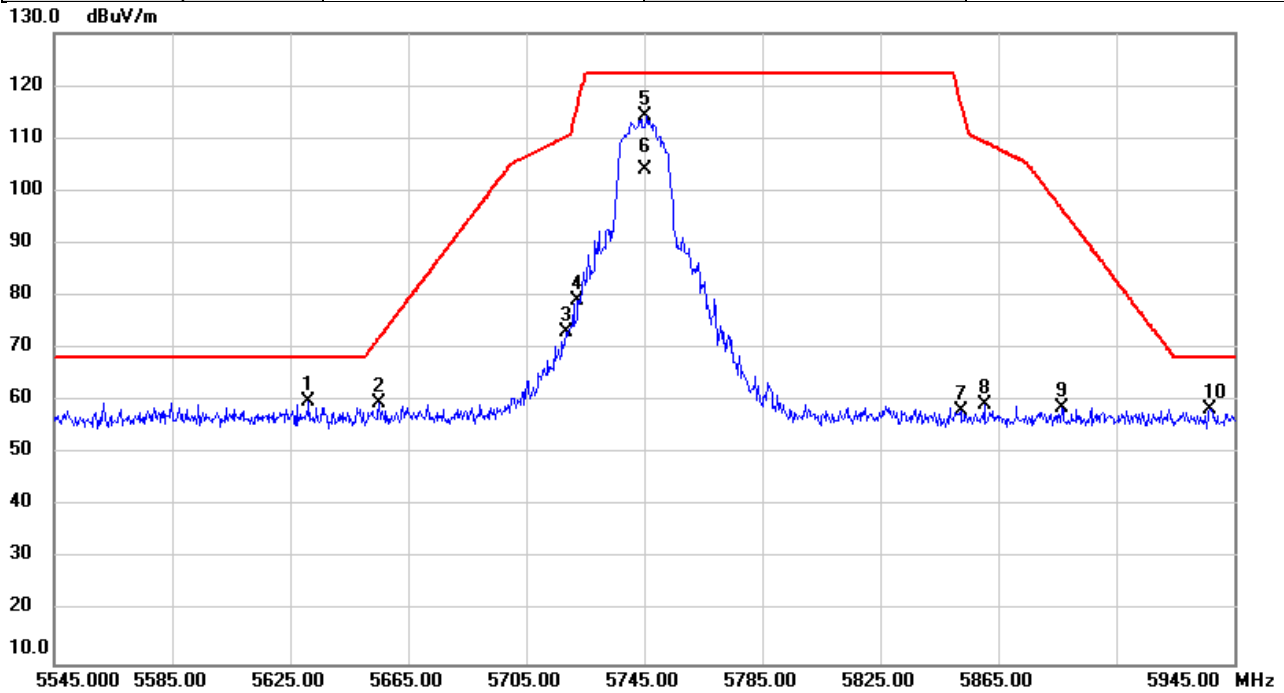
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5145.240	54.80	2.87	57.67	74.00	-16.33	peak	
2		5145.240	43.67	2.87	46.54	54.00	-7.46	AVG	
3	*	5240.000	103.35	2.91	106.26	68.20	38.06	peak	NoLimit
4	X	5240.000	94.20	2.91	97.11	68.20	28.91	AVG	NoLimit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5745MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

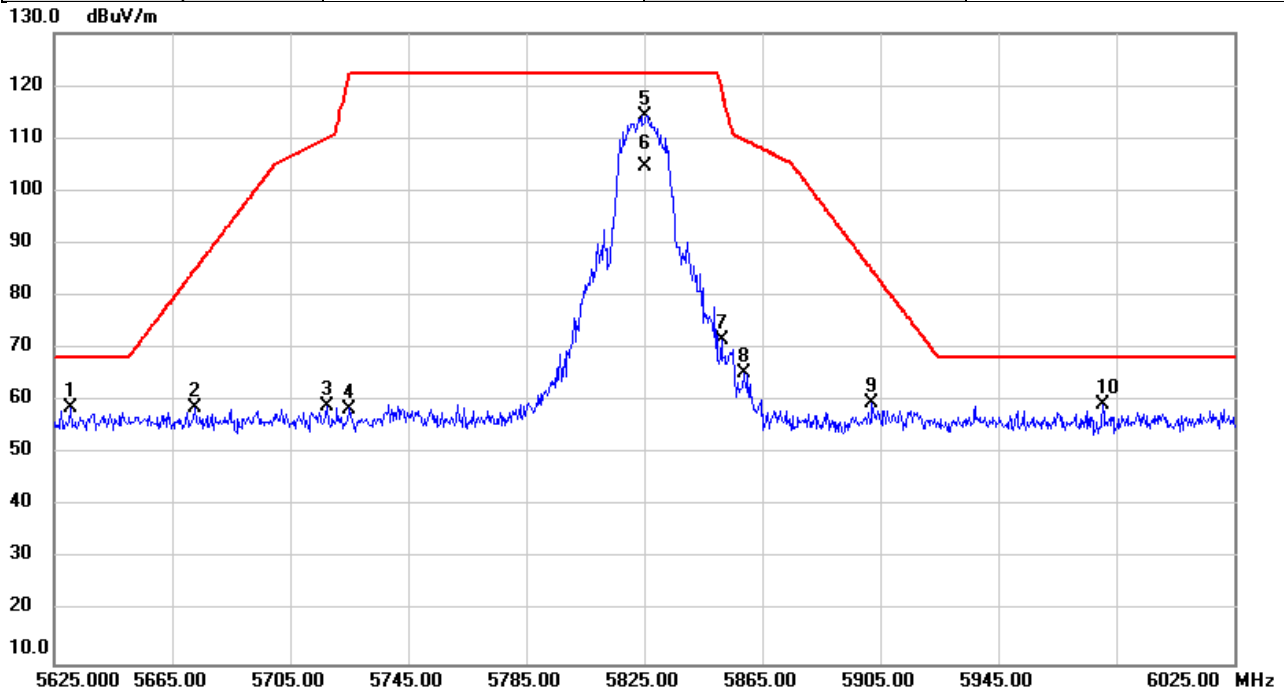


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5631.053	56.63	3.22	59.85	68.20	-8.35	peak	
2		5655.213	56.26	3.26	59.52	72.07	-12.55	peak	
3		5718.773	69.69	3.36	73.05	110.46	-37.41	peak	
4		5722.280	75.82	3.36	79.18	116.00	-36.82	peak	
5	*	5745.000	110.71	3.40	114.11	122.20	-8.09	peak	NoLimit
6		5745.000	100.61	3.40	104.01	122.20	-18.19	AVG	NoLimit
7		5852.533	54.44	3.58	58.02	116.42	-58.40	peak	
8		5860.520	55.70	3.60	59.30	109.25	-49.95	peak	
9		5886.600	55.16	3.64	58.80	96.59	-37.79	peak	
10		5936.987	54.63	3.72	58.35	68.20	-9.85	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5825MHz	Polarization	Vertical
Temp	26°C	Hum.	61%



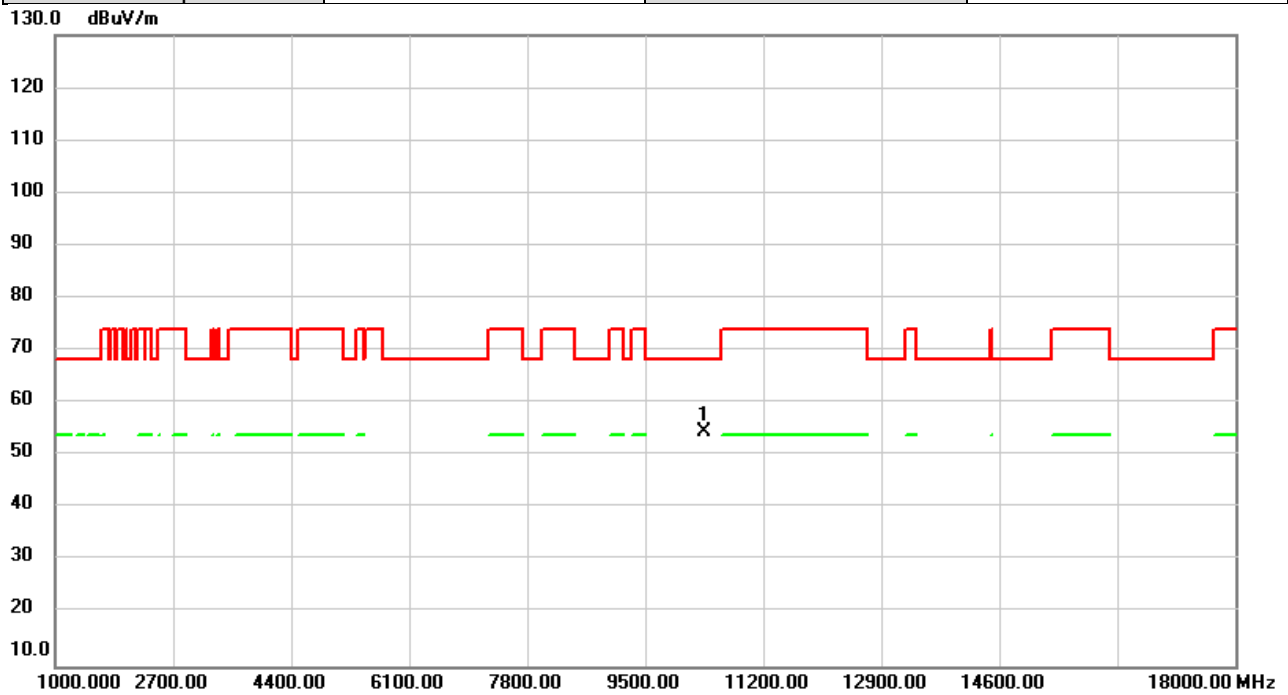
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5630.373	55.64	3.22	58.86	68.20	-9.34	peak	
2		5672.853	55.56	3.28	58.84	85.15	-26.31	peak	
3		5717.560	55.66	3.36	59.02	110.12	-51.10	peak	
4		5724.987	55.06	3.36	58.42	122.17	-63.75	peak	
5	*	5825.000	110.66	3.54	114.20	122.20	-8.00	peak	NoLimit
6		5825.000	101.26	3.54	104.80	122.20	-17.40	AVG	NoLimit
7		5851.347	68.04	3.58	71.62	119.13	-47.51	peak	
8		5858.840	61.77	3.59	65.36	109.72	-44.36	peak	
9		5902.253	55.89	3.66	59.55	84.99	-25.44	peak	
10		5980.307	55.67	3.80	59.47	68.20	-8.73	peak	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5180MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

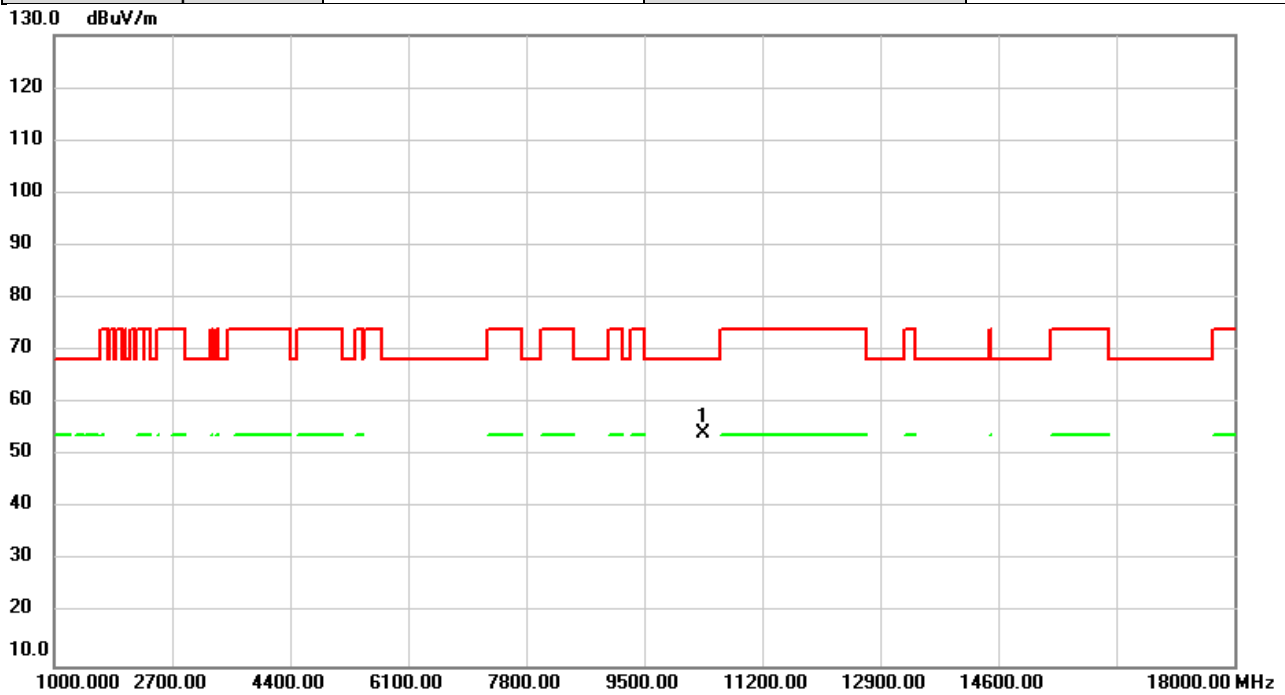


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	46.70	7.93	54.63	68.20	-13.57	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5180MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

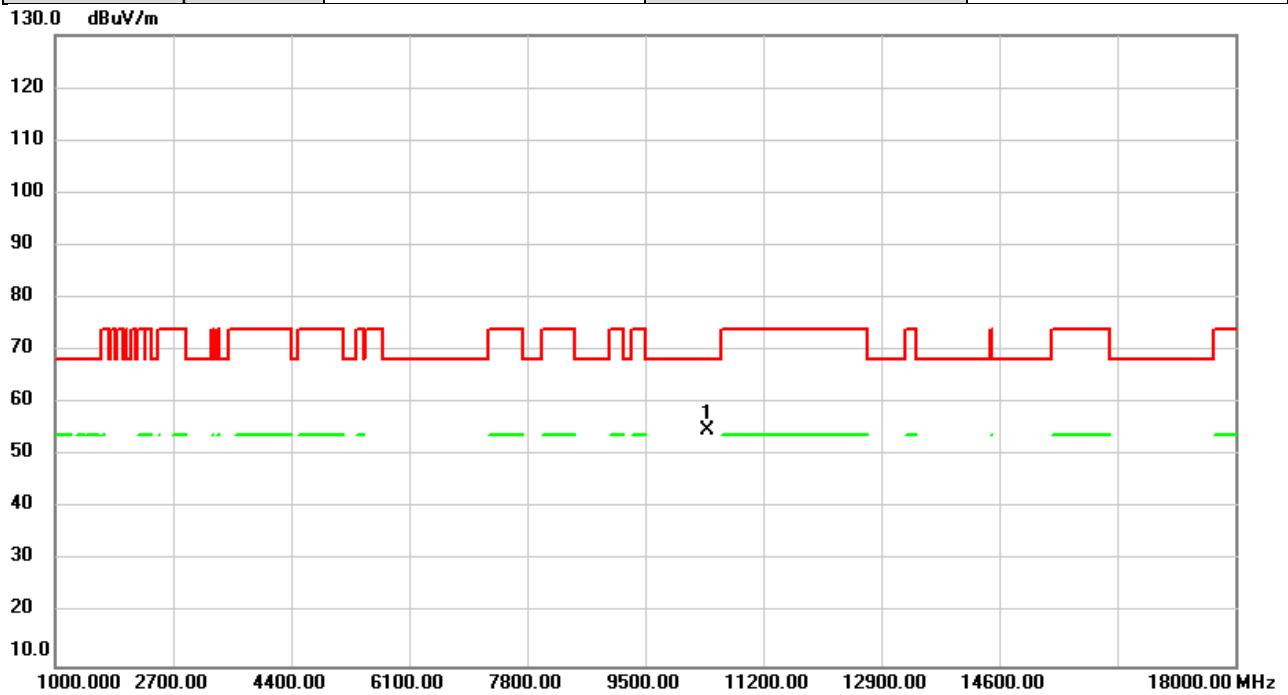


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	46.18	7.93	54.11	68.20	-14.09	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5200MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

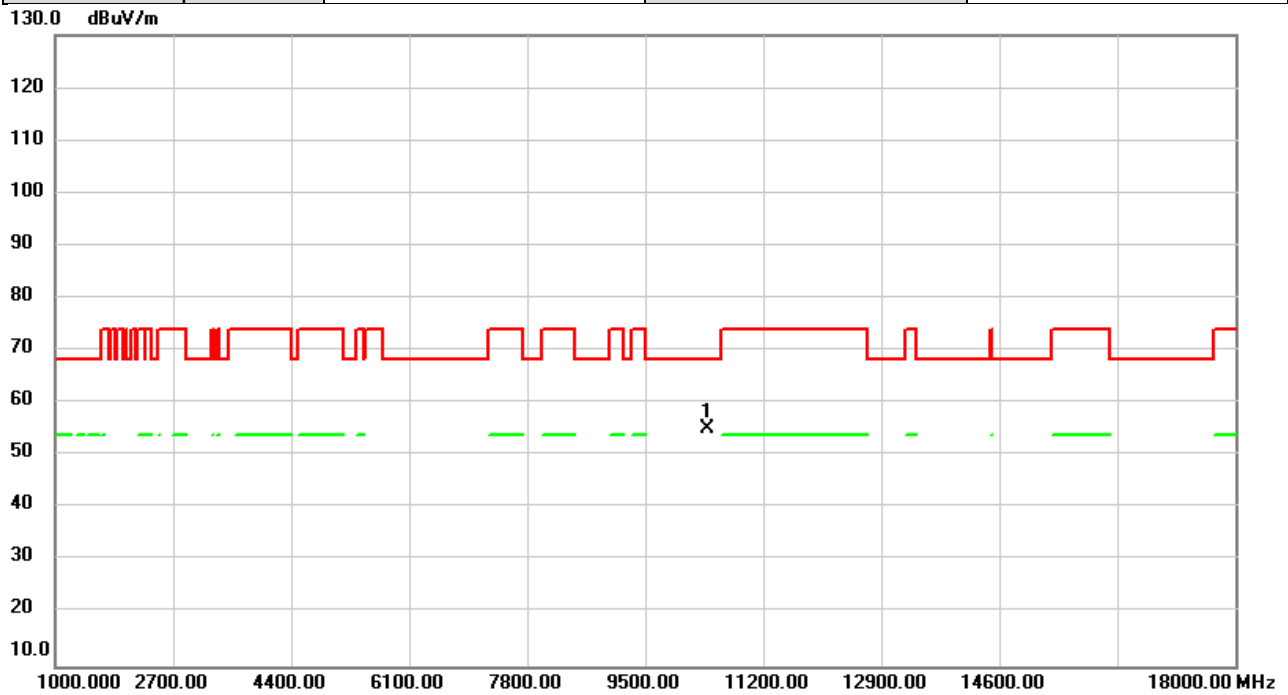


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	46.82	7.92	54.74	68.20	-13.46	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5200MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

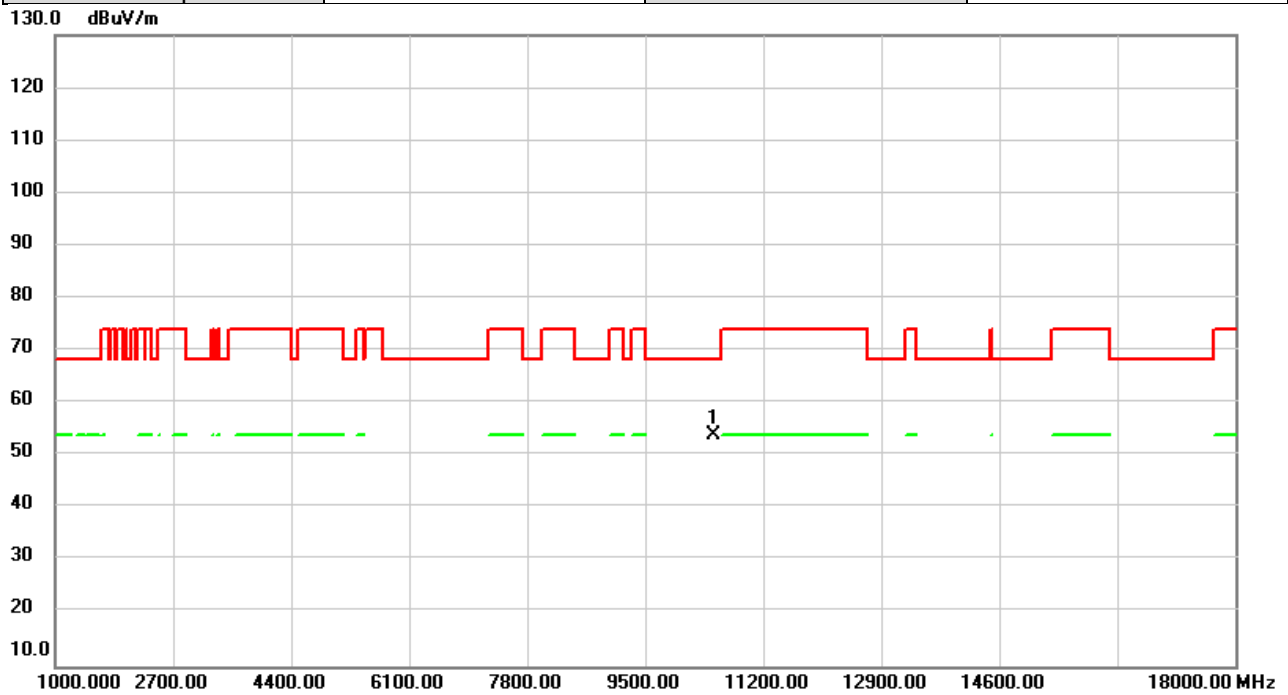


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	47.35	7.92	55.27	68.20	-12.93	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5240MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

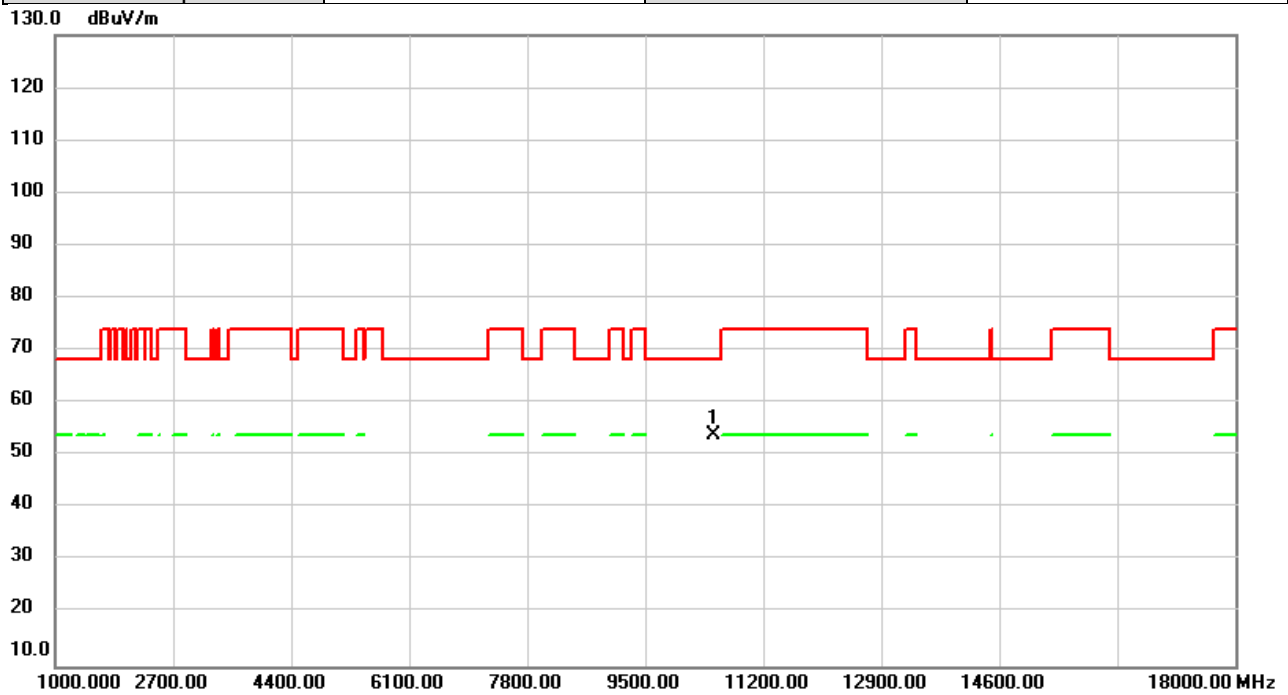


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	46.20	7.90	54.10	68.20	-14.10	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5240MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

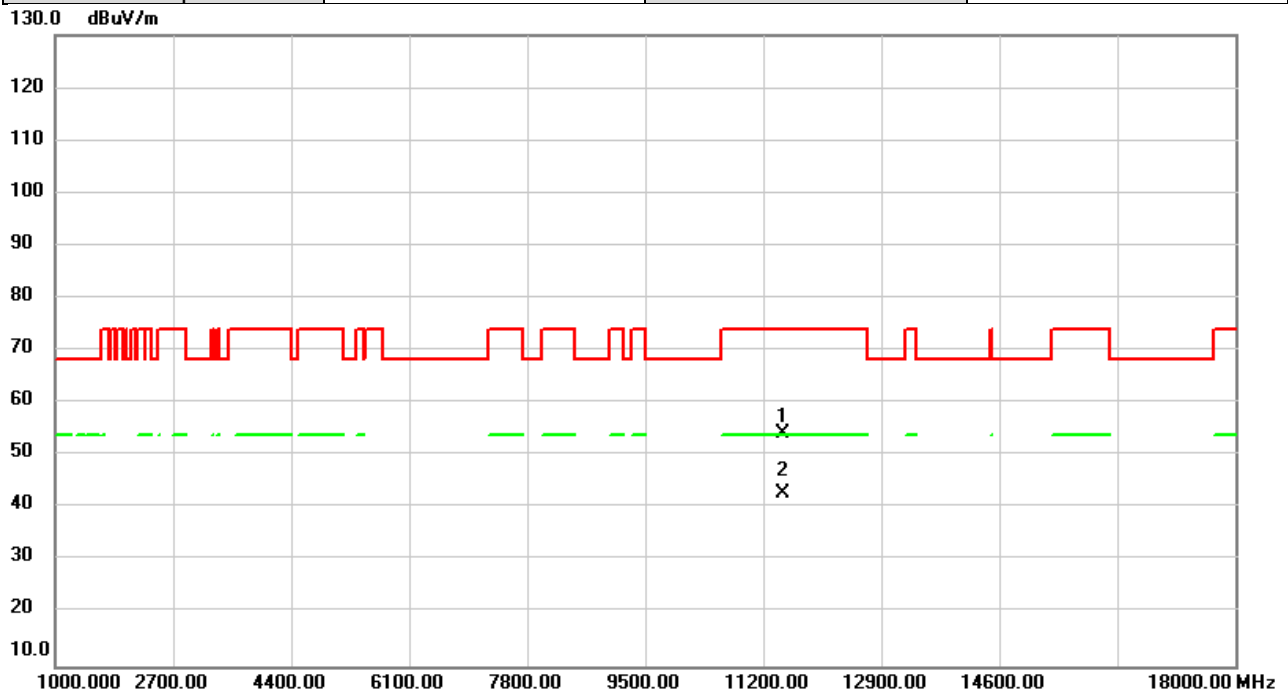


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	46.20	7.90	54.10	68.20	-14.10	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5745MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

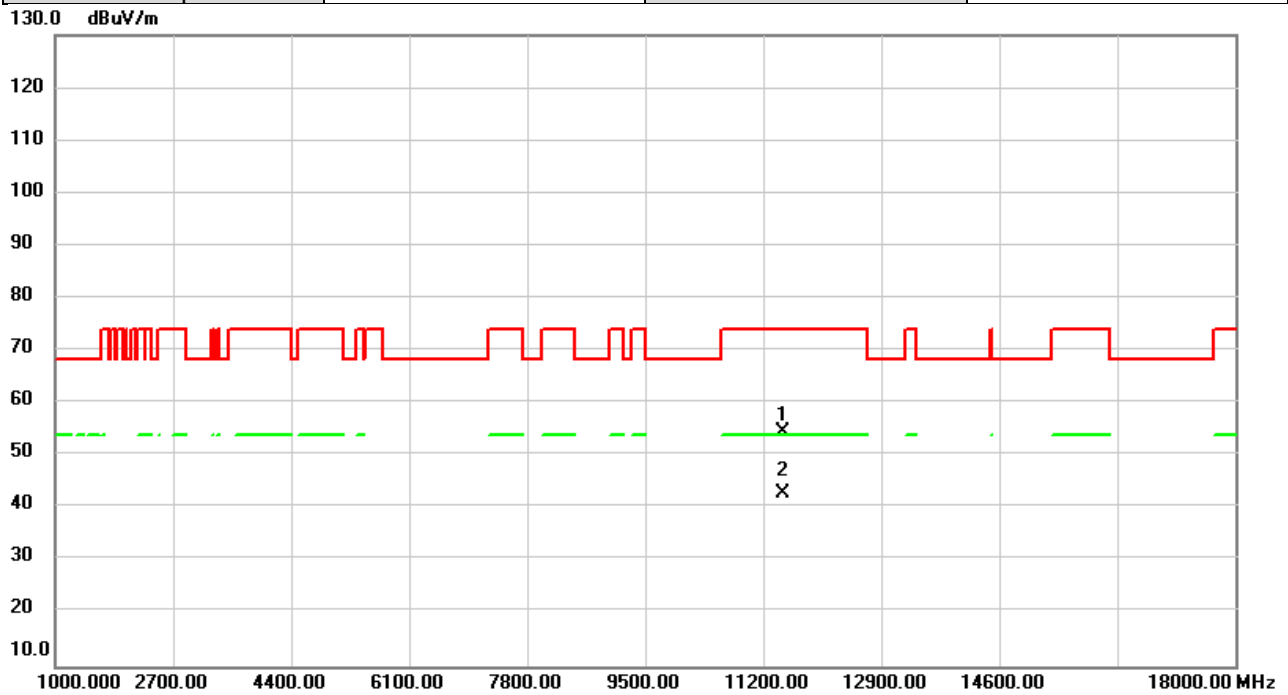


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	46.58	7.65	54.23	74.00	-19.77	peak	
2	*	11490.00	35.12	7.65	42.77	54.00	-11.23	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5745MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

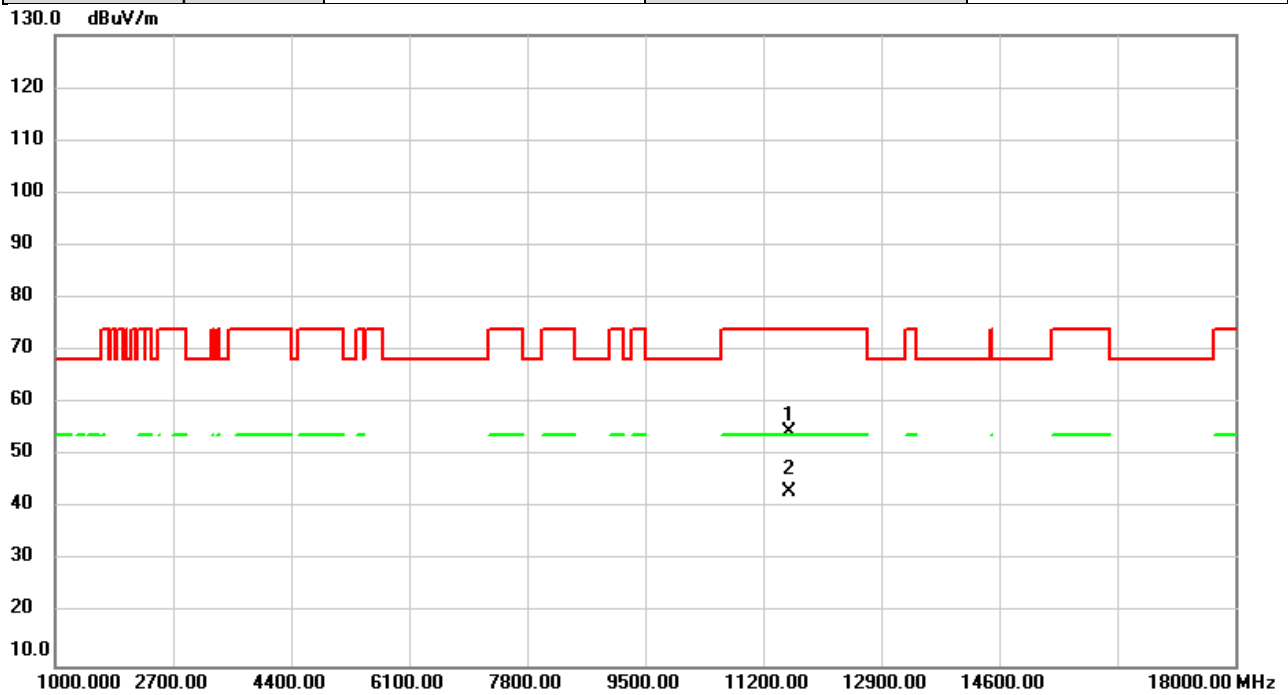


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	46.99	7.65	54.64	74.00	-19.36	peak	
2	*	11490.00	35.14	7.65	42.79	54.00	-11.21	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5785MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

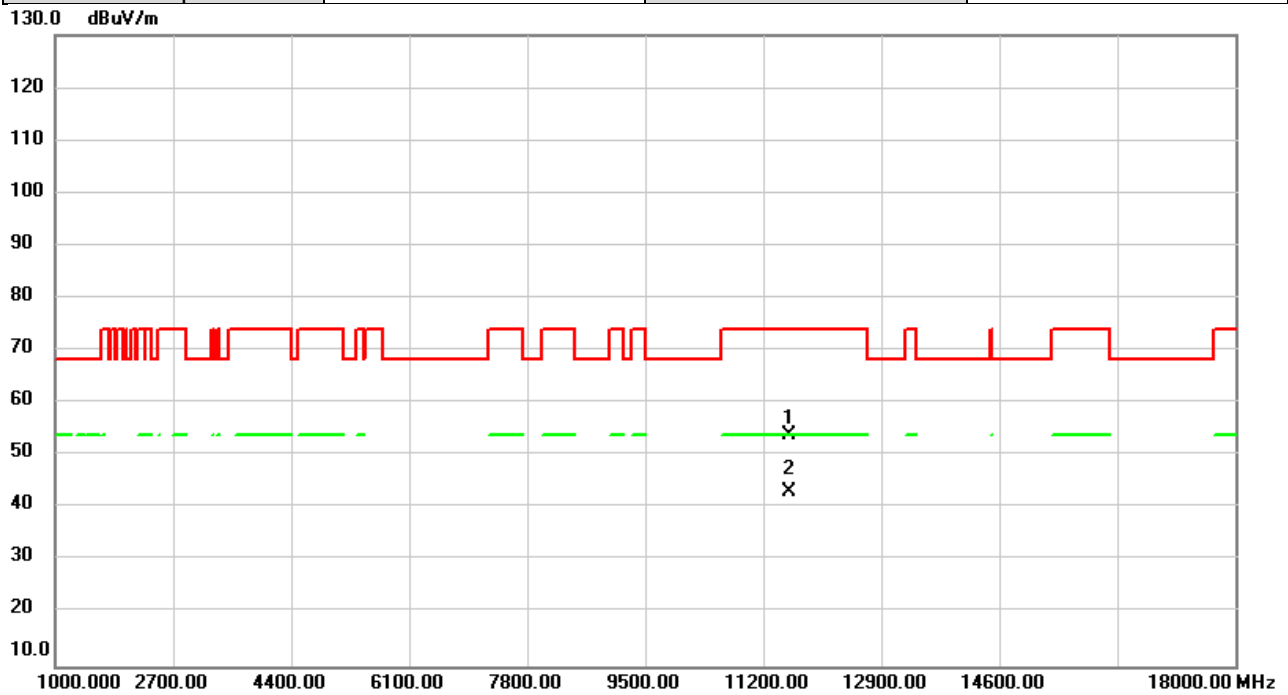


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	46.76	7.72	54.48	74.00	-19.52	peak	
2	*	11570.00	35.32	7.72	43.04	54.00	-10.96	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5785MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

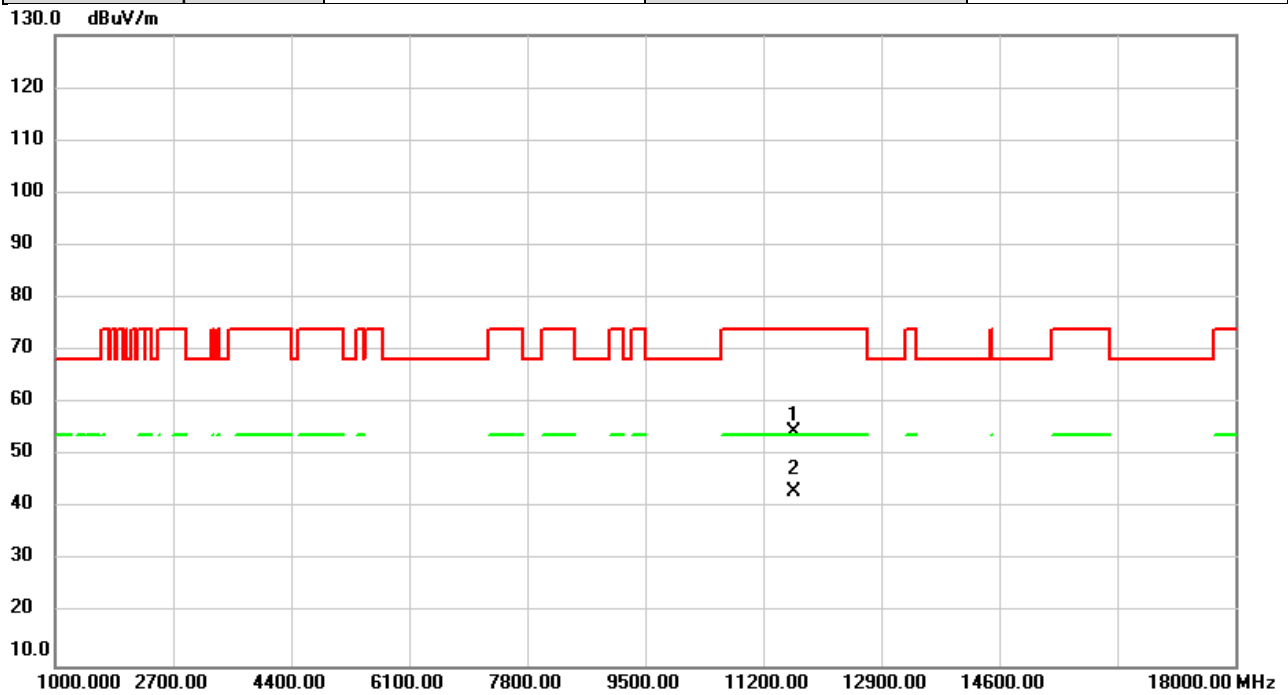


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	46.30	7.72	54.02	74.00	-19.98	peak	
2	*	11570.00	35.30	7.72	43.02	54.00	-10.98	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5825MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

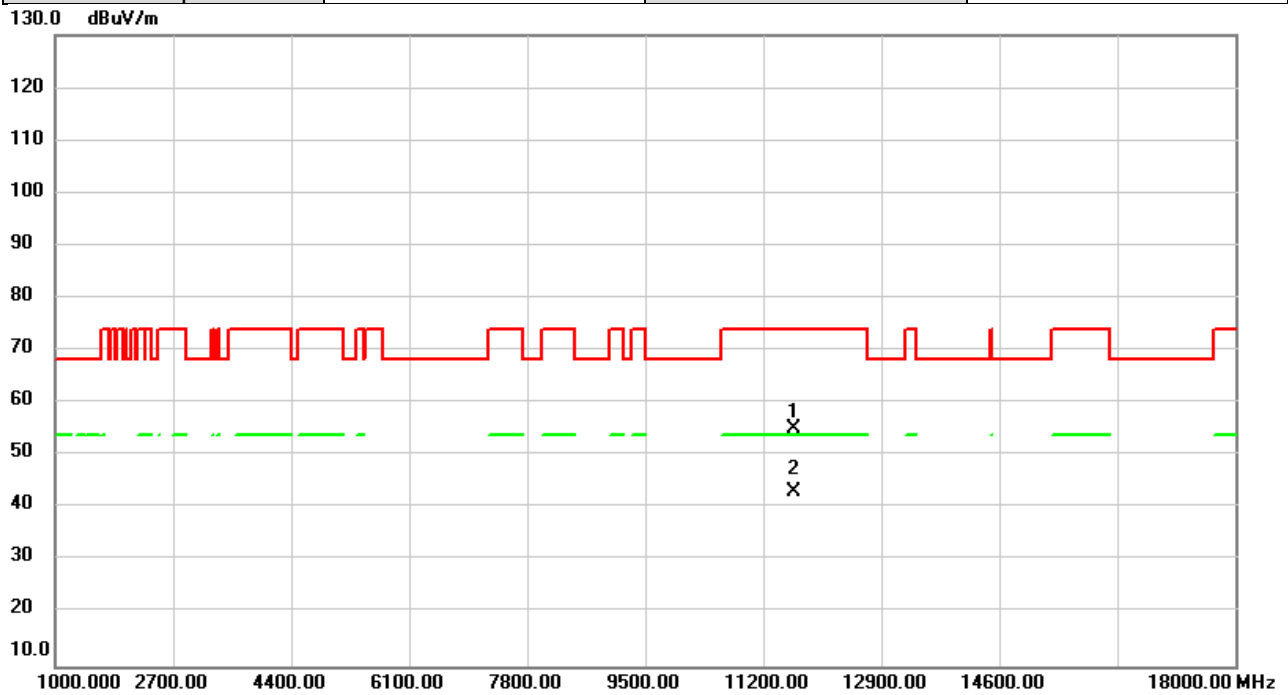


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	46.76	7.78	54.54	74.00	-19.46	peak	
2	*	11650.00	35.34	7.78	43.12	54.00	-10.88	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5825MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

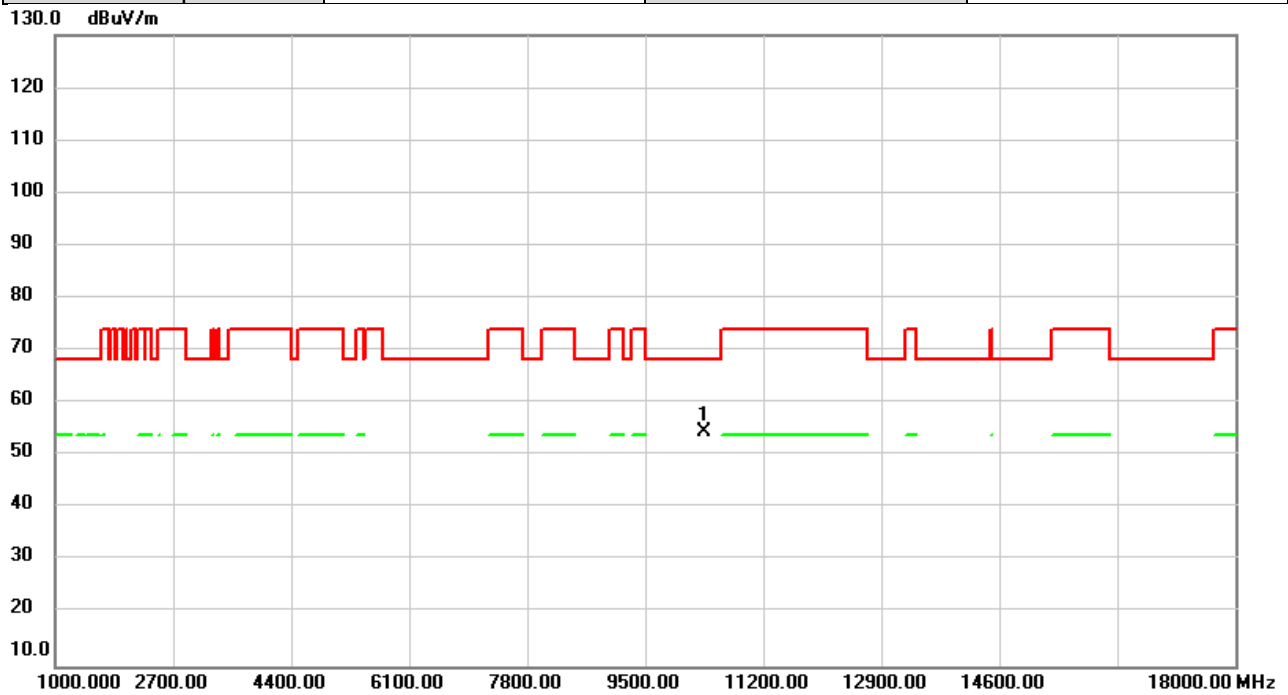


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	47.25	7.78	55.03	74.00	-18.97	peak	
2	*	11650.00	35.28	7.78	43.06	54.00	-10.94	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5180MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

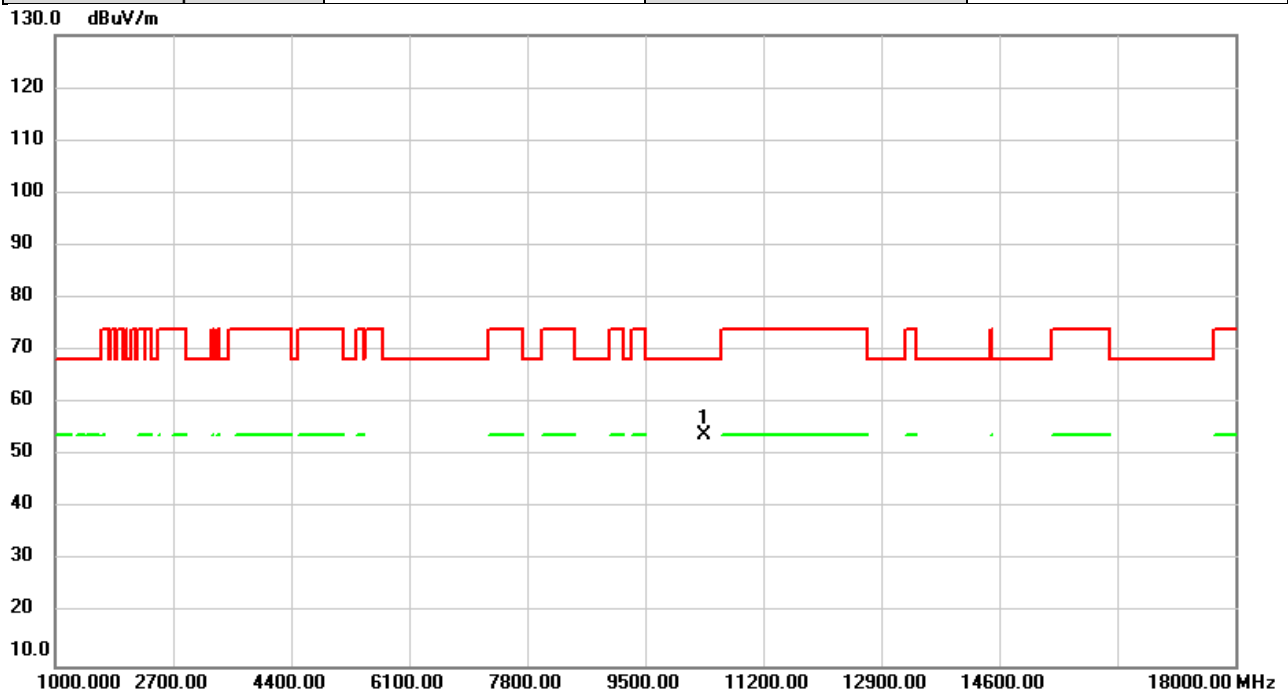


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	46.62	7.93	54.55	68.20	-13.65	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5180MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

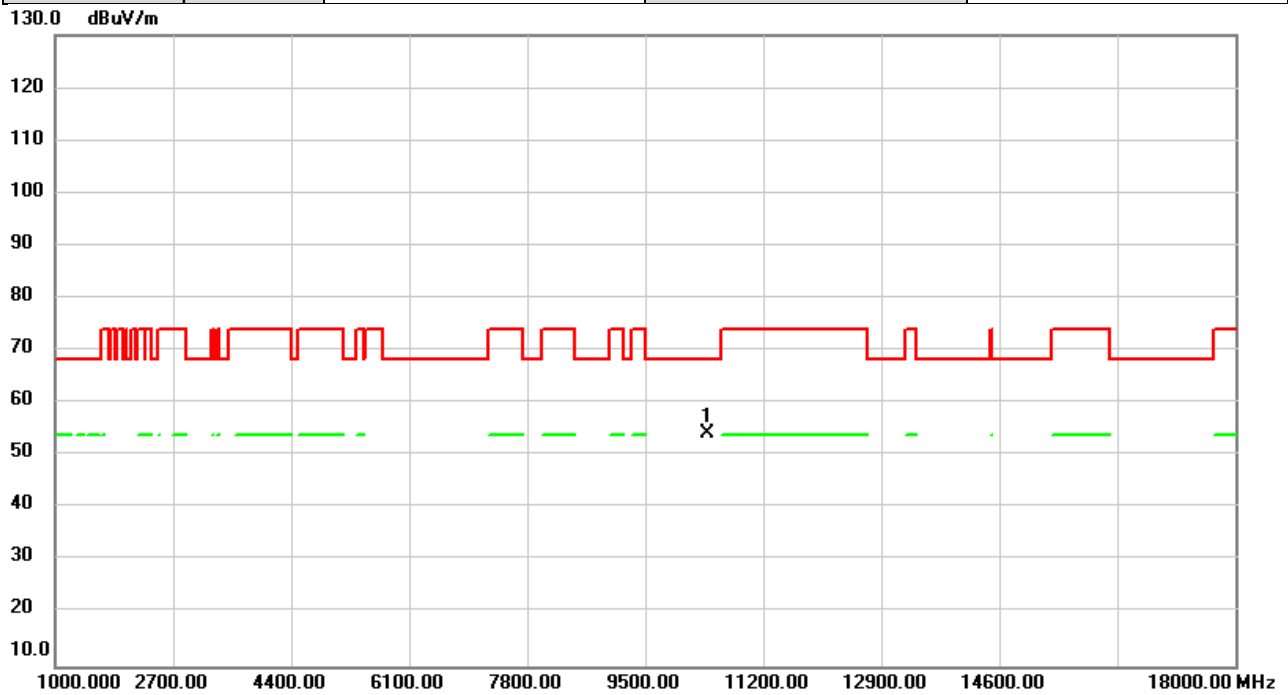


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	46.10	7.93	54.03	68.20	-14.17	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5200MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

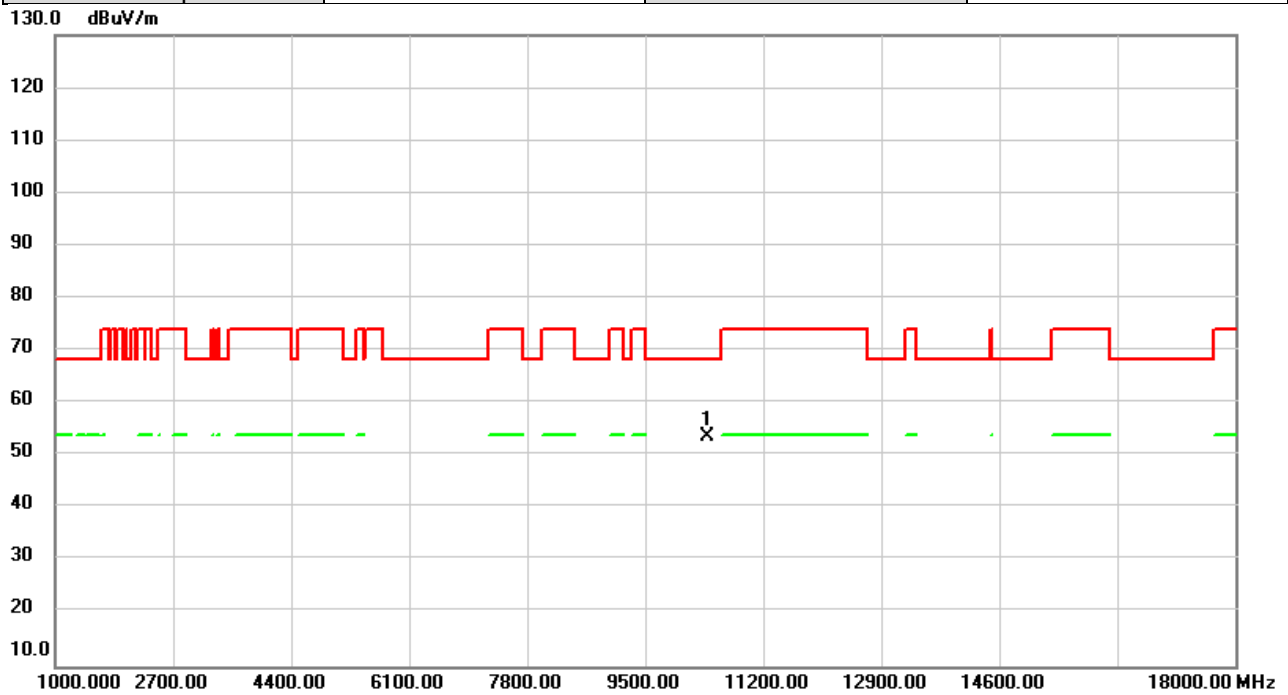


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	46.42	7.92	54.34	68.20	-13.86	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5200MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

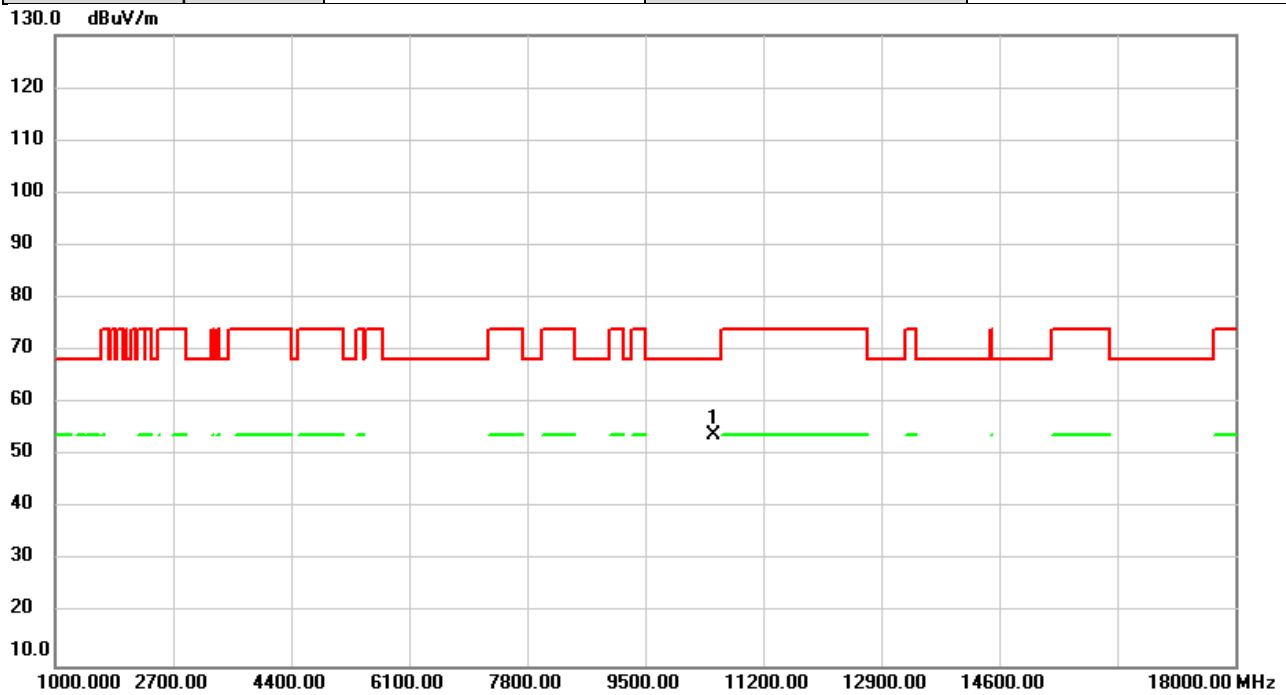


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	45.70	7.92	53.62	68.20	-14.58	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5240MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

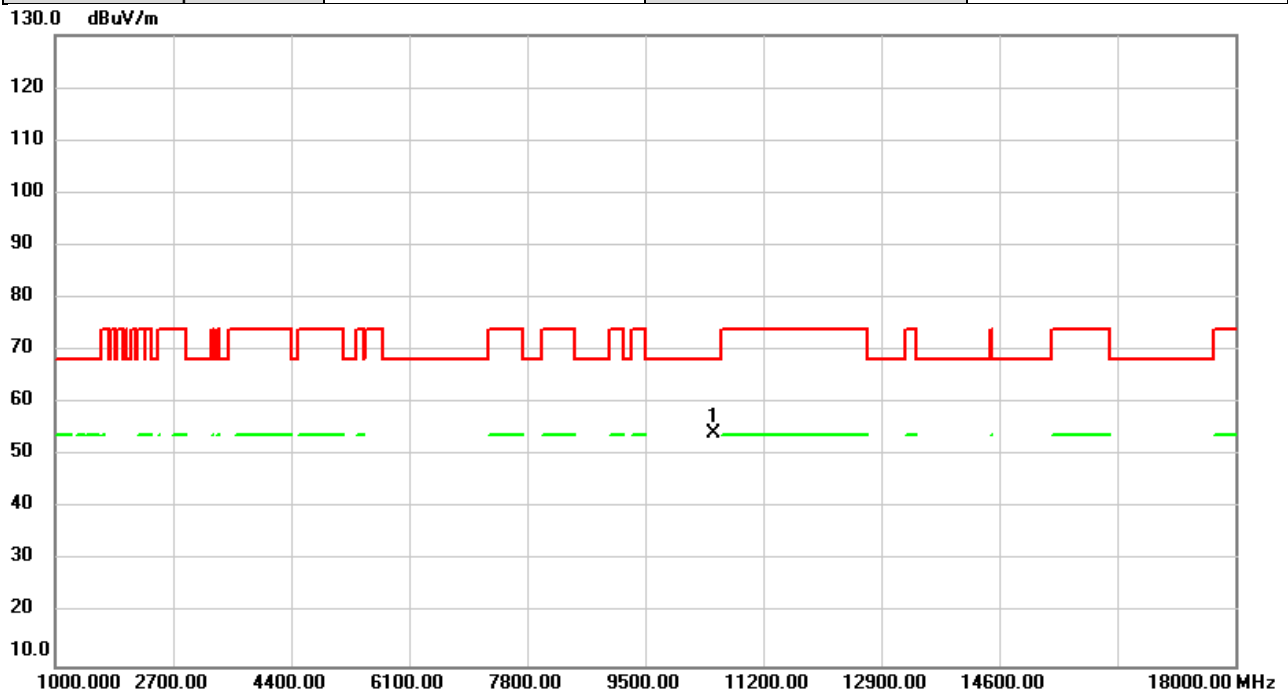


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	46.01	7.90	53.91	68.20	-14.29	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5240MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

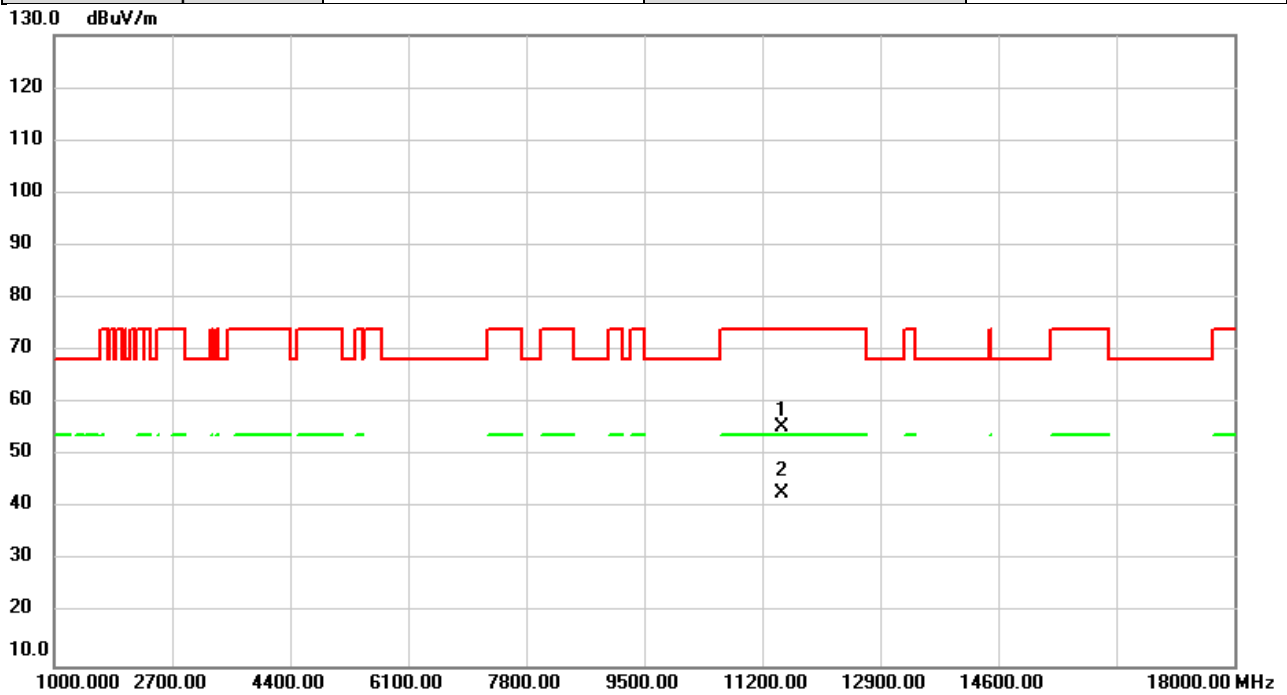


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	46.50	7.90	54.40	68.20	-13.80	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5745MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

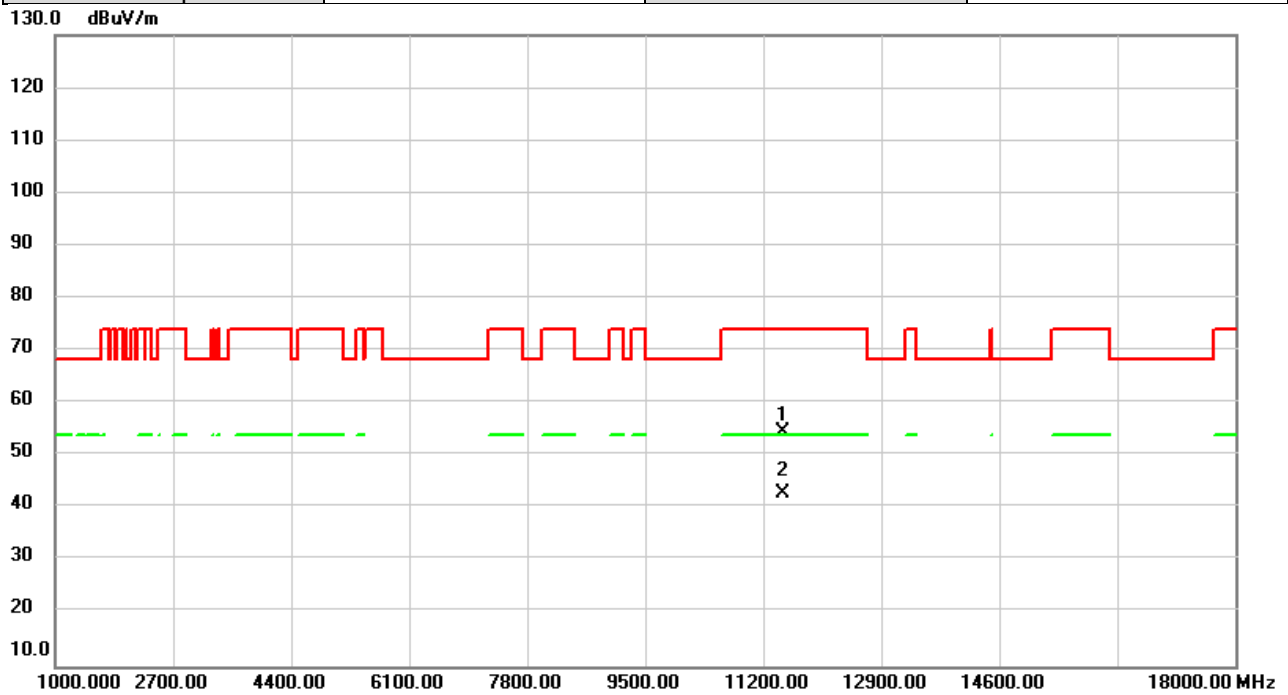


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	47.78	7.65	55.43	74.00	-18.57	peak	
2	*	11490.00	35.15	7.65	42.80	54.00	-11.20	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5745MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

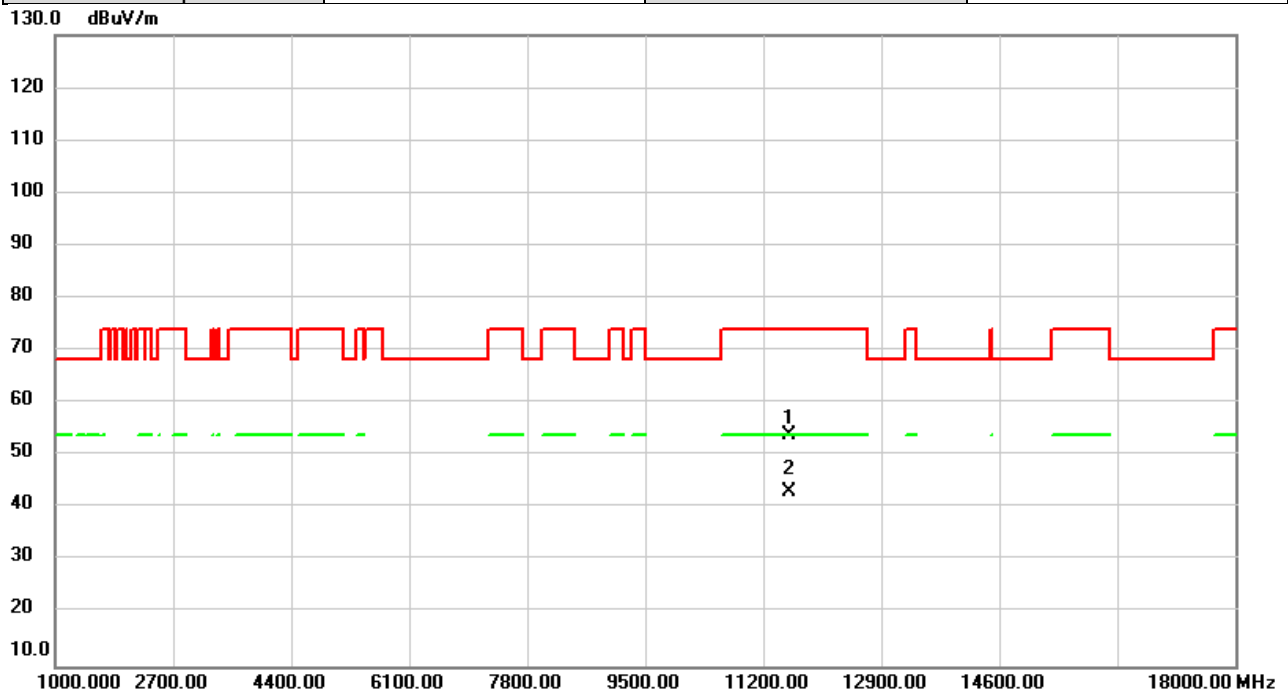


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	46.83	7.65	54.48	74.00	-19.52	peak	
2	*	11490.00	35.16	7.65	42.81	54.00	-11.19	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5785MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

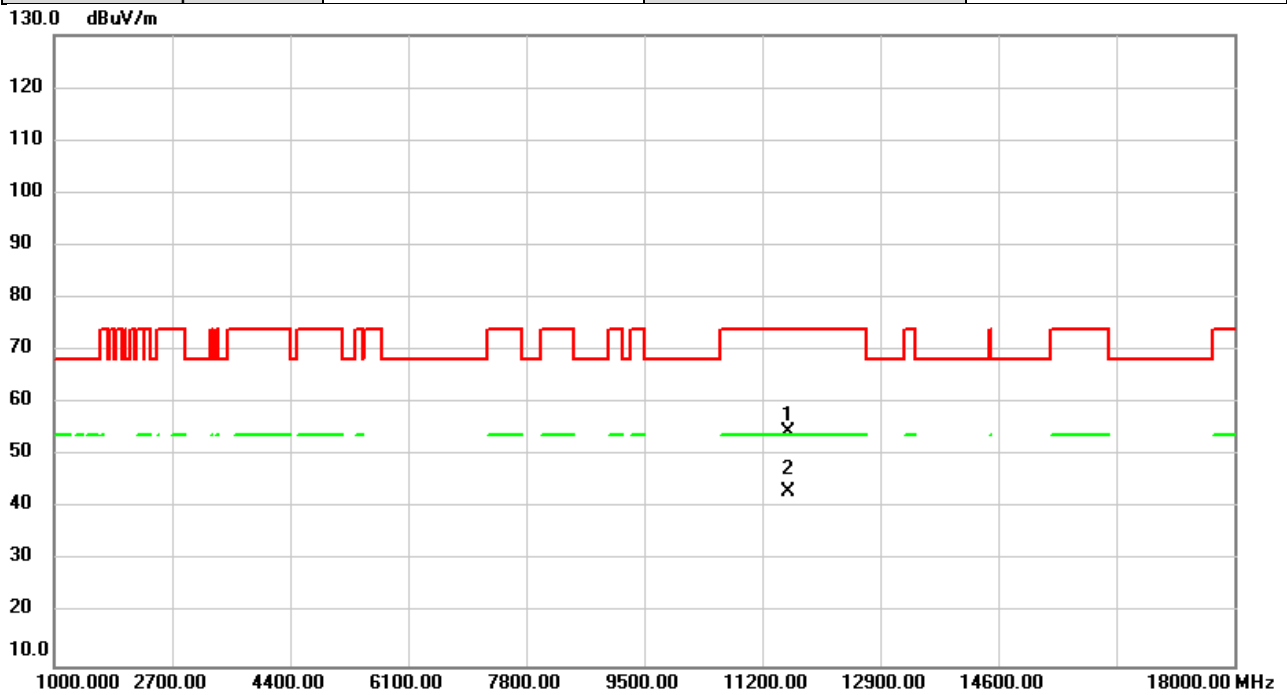


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	46.21	7.72	53.93	74.00	-20.07	peak	
2	*	11570.00	35.30	7.72	43.02	54.00	-10.98	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5785MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

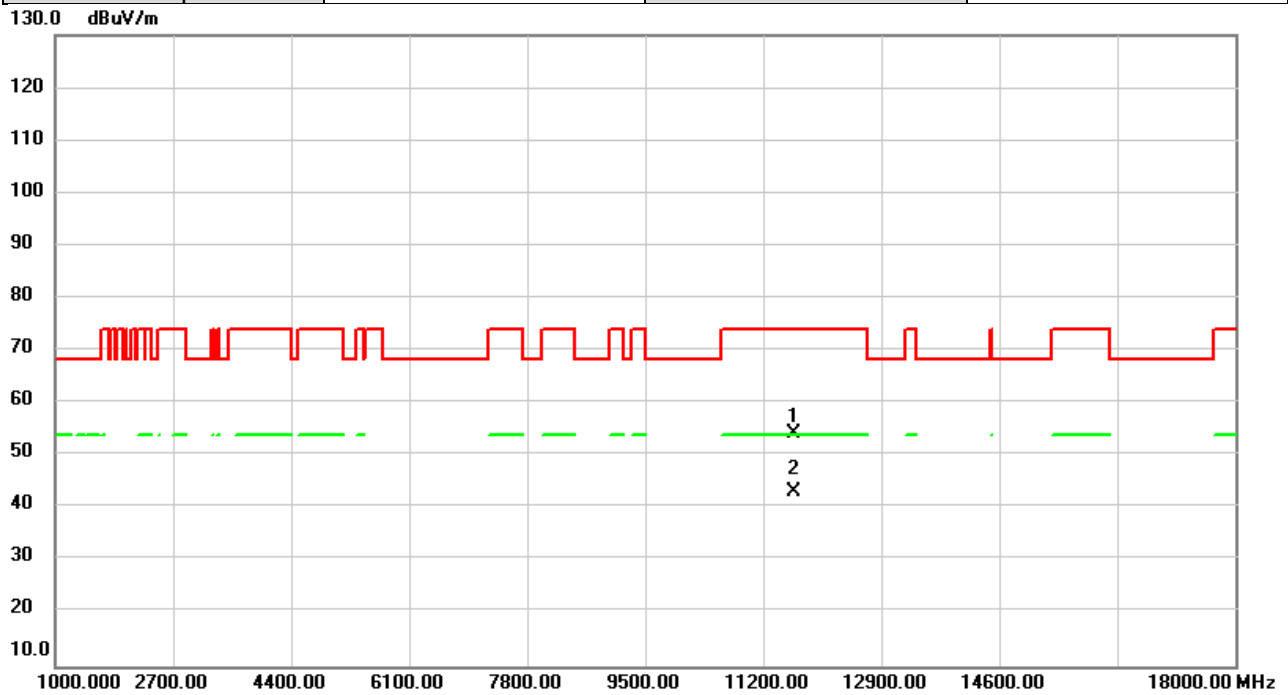


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	46.93	7.72	54.65	74.00	-19.35	peak	
2	*	11570.00	35.40	7.72	43.12	54.00	-10.88	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5825MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

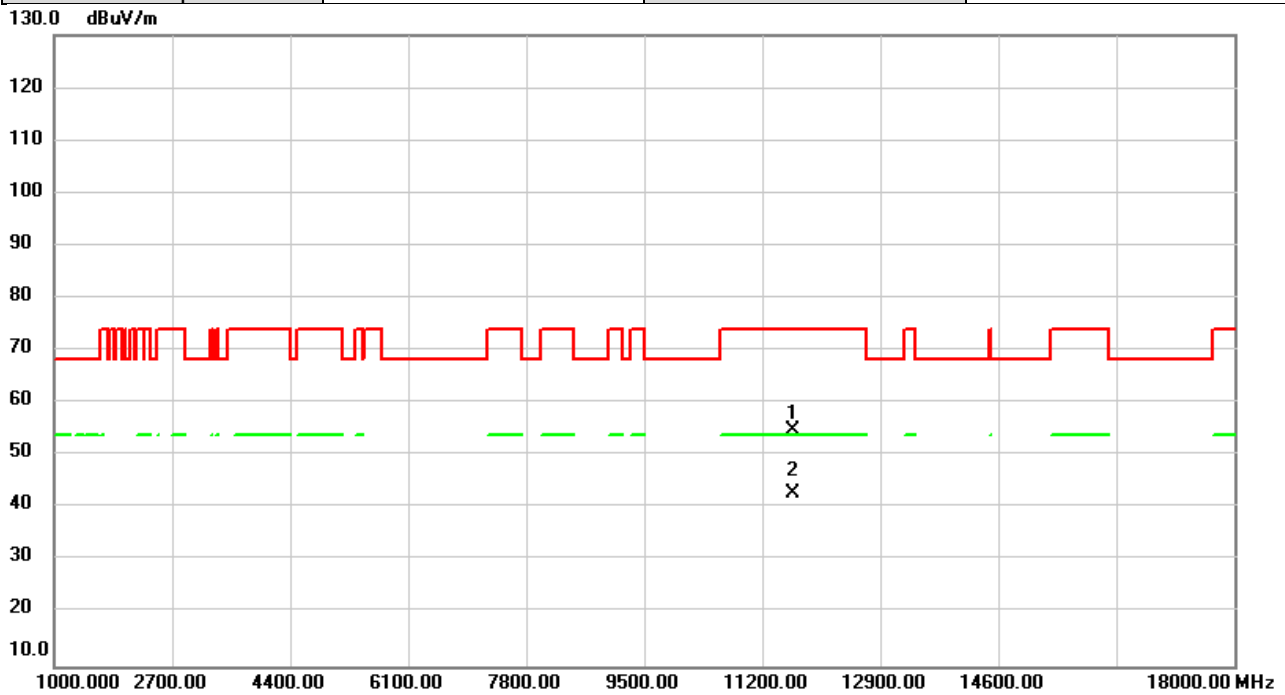


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	46.41	7.78	54.19	74.00	-19.81	peak	
2	*	11650.00	35.42	7.78	43.20	54.00	-10.80	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/8/8
Test Frequency	5825MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

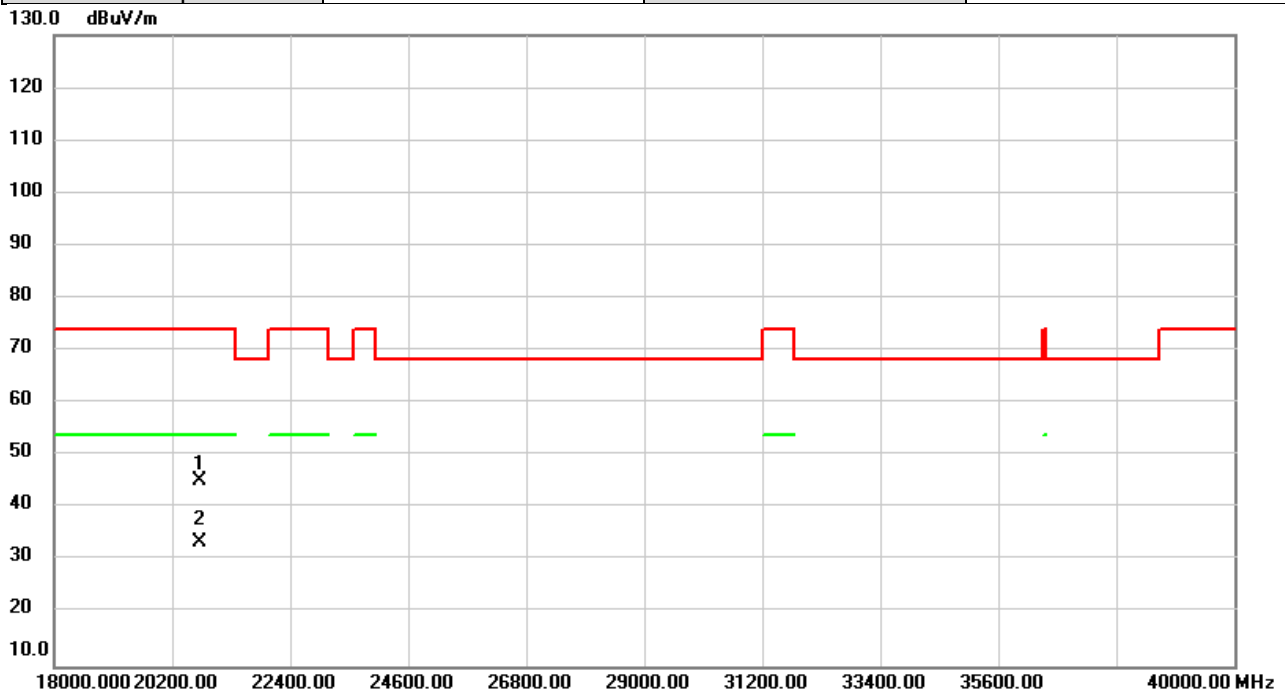


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	46.97	7.78	54.75	74.00	-19.25	peak	
2	*	11650.00	35.21	7.78	42.99	54.00	-11.01	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5180MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

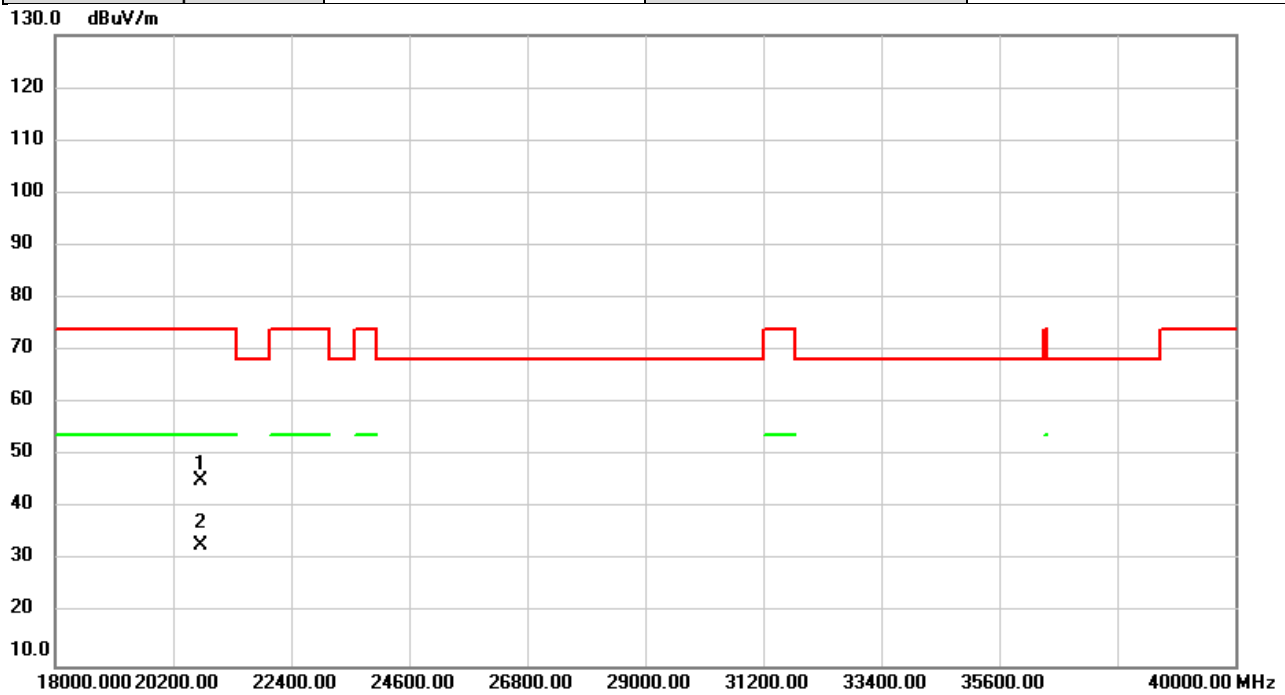


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		20720.00	52.72	-7.39	45.33	74.00	-28.67	peak	
2	*	20720.00	40.86	-7.39	33.47	54.00	-20.53	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11a	Test Date	2025/8/8
Test Frequency	5180MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		20720.00	52.51	-7.39	45.12	74.00	-28.88	peak	
2	*	20720.00	40.26	-7.39	32.87	54.00	-21.13	AVG	

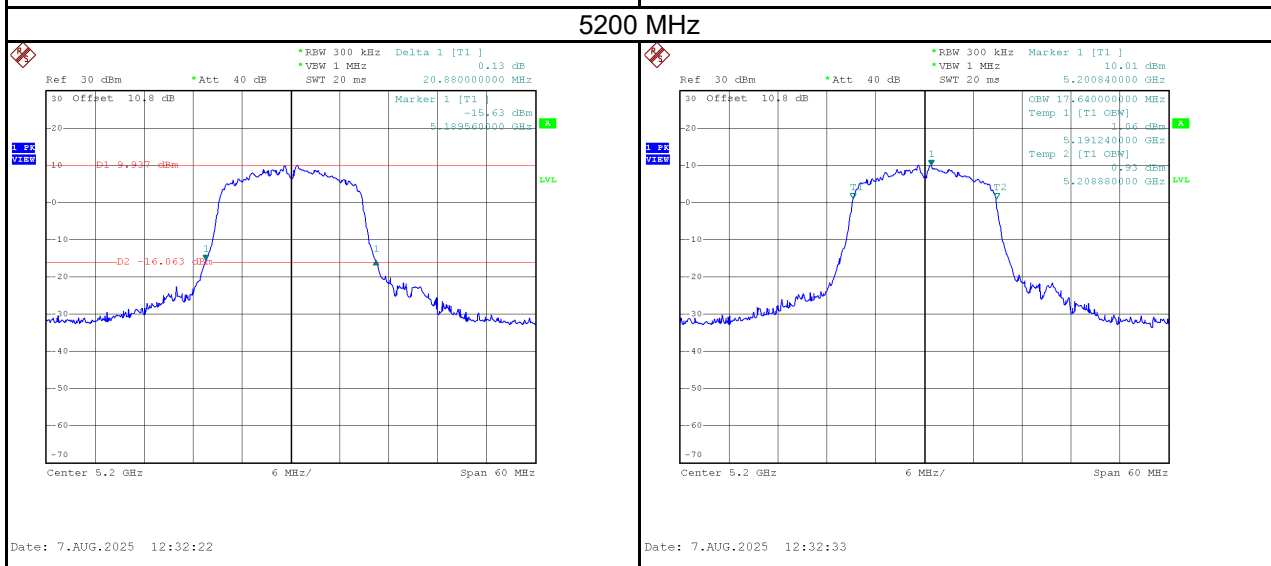
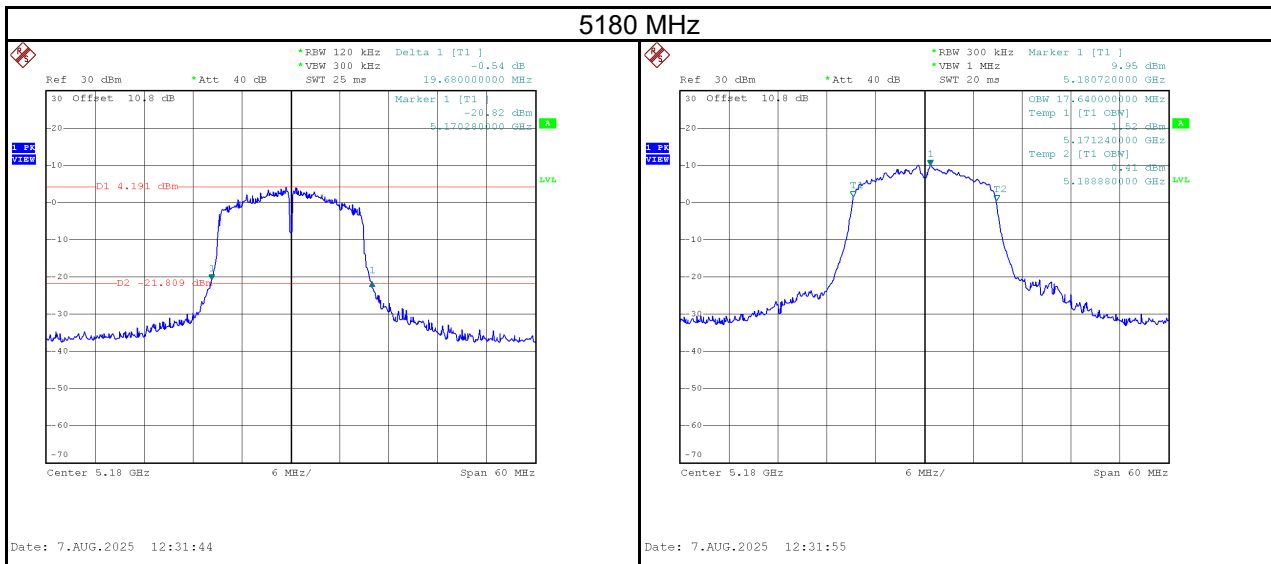
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

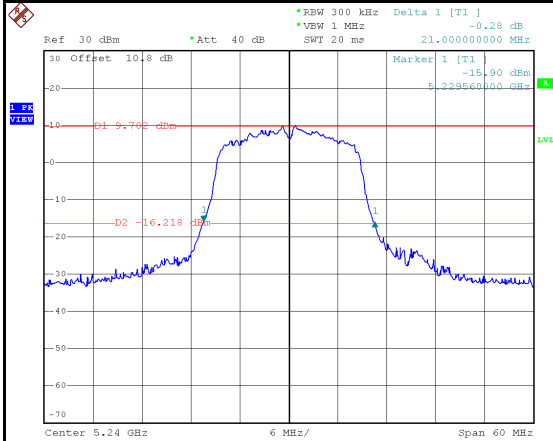
APPENDIX E BANDWIDTH

Test Mode	IEEE 802.11a
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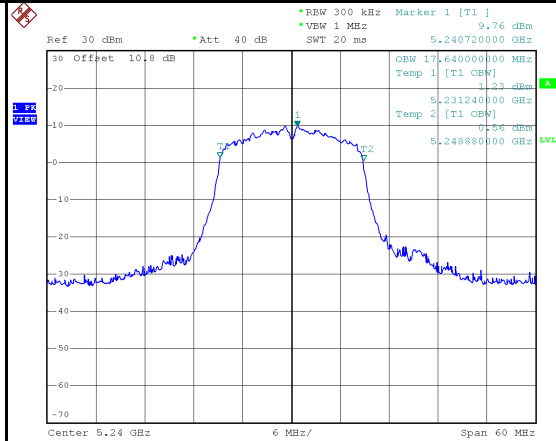
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5180	19.68	17.64	No limit
5200	20.88	17.64	No limit
5240	21.00	17.64	No limit



5240 MHz



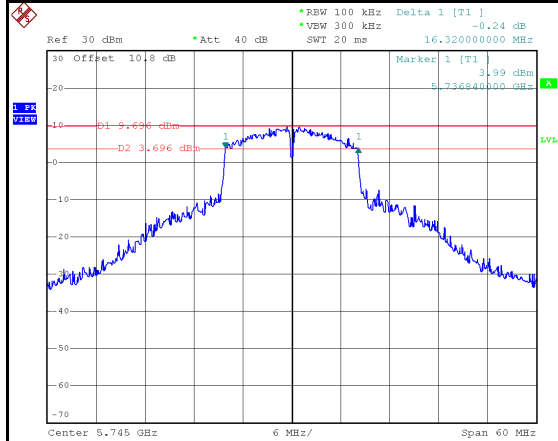
Date: 7.AUG.2025 12:32:57



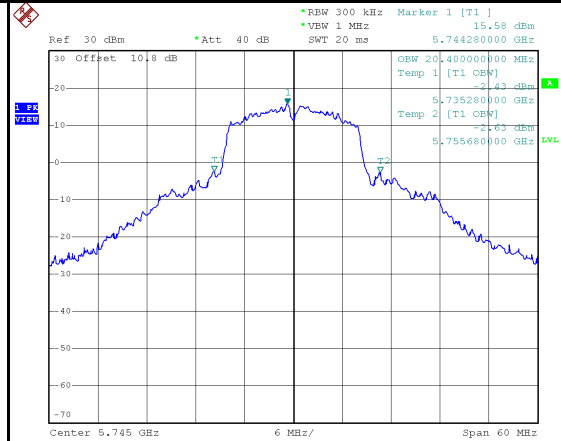
Date: 7.AUG.2025 12:33:08

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
5745	16.32	20.40	500	Pass
5785	16.08	19.92	500	Pass
5825	16.08	20.76	500	Pass

5745 MHz

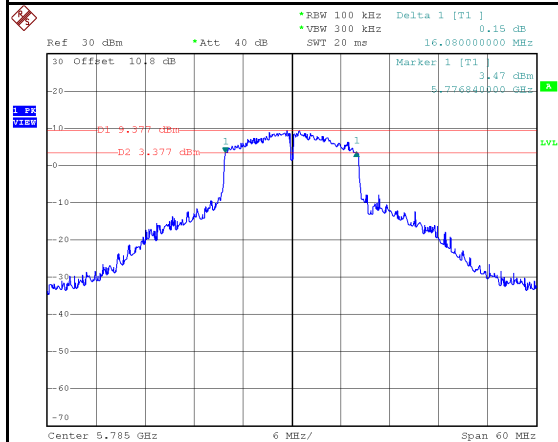


Date: 7.AUG.2025 14:29:10

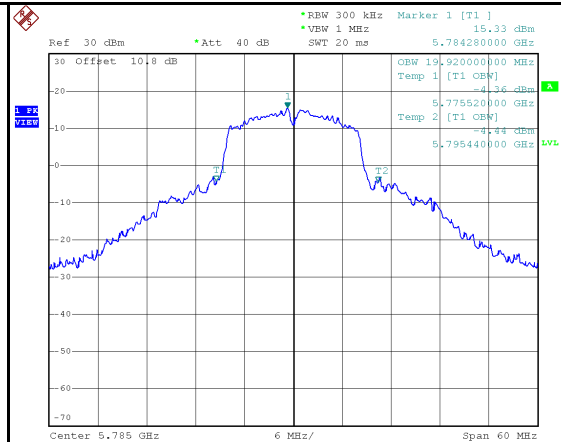


Date: 7.AUG.2025 14:26:21

5785 MHz

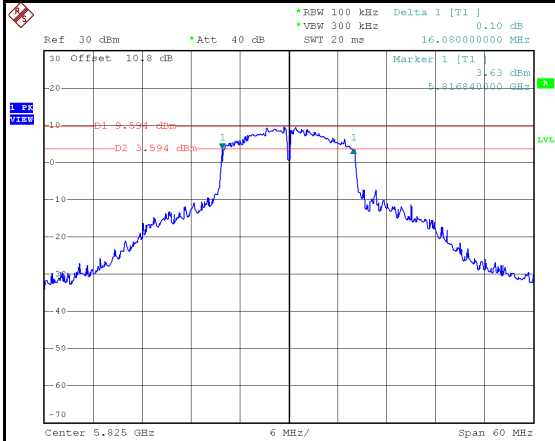


Date: 7.AUG.2025 14:29:36

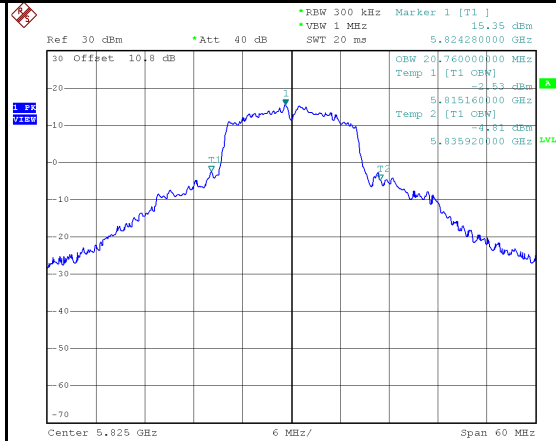


Date: 7.AUG.2025 14:26:45

5825 MHz



Date: 7.AUG.2025 14:29:51

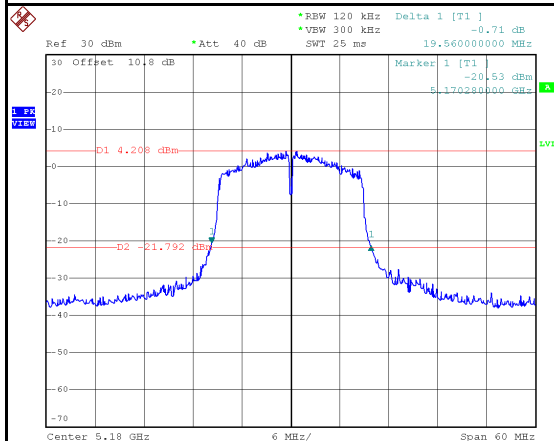


Date: 7.AUG.2025 14:27:02

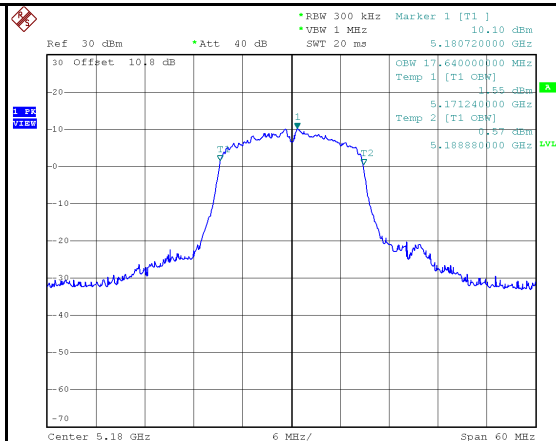
Test Mode	IEEE 802.11n (HT20)
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Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5180	19.56	17.64	No limit
5200	19.68	17.64	No limit
5240	19.44	17.64	No limit

5180 MHz

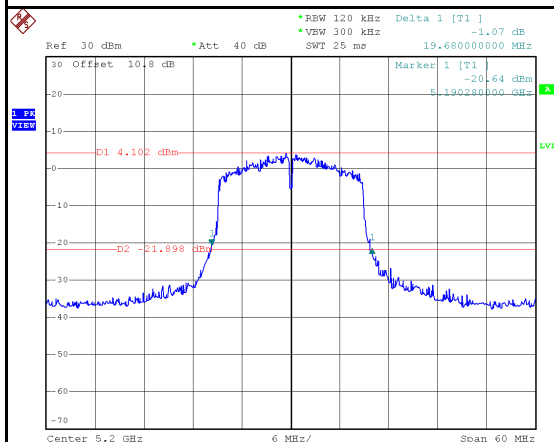


Date: 7.AUG.2025 12:33:36

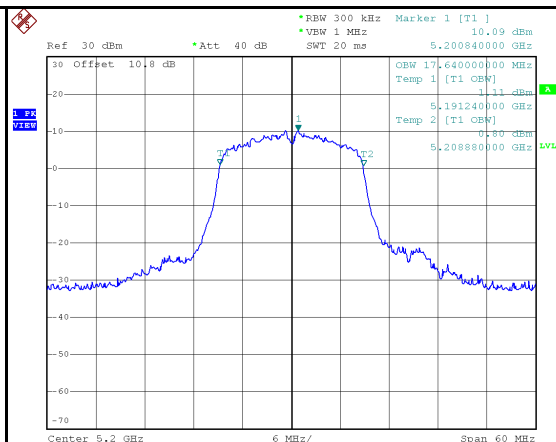


Date: 7.AUG.2025 12:33:47

5200 MHz

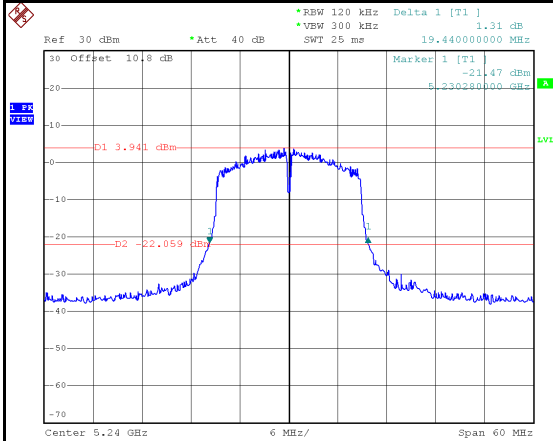


Date: 7.AUG.2025 12:34:14

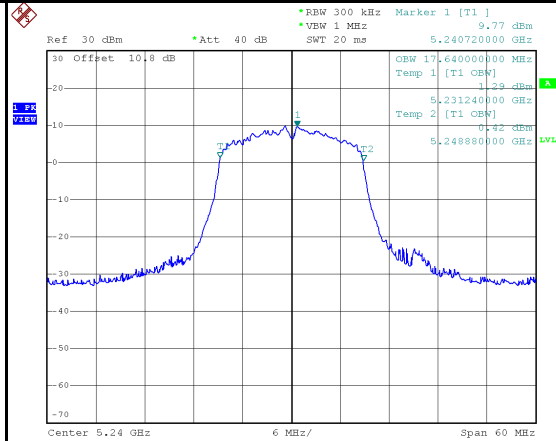


Date: 7.AUG.2025 12:34:25

5240 MHz



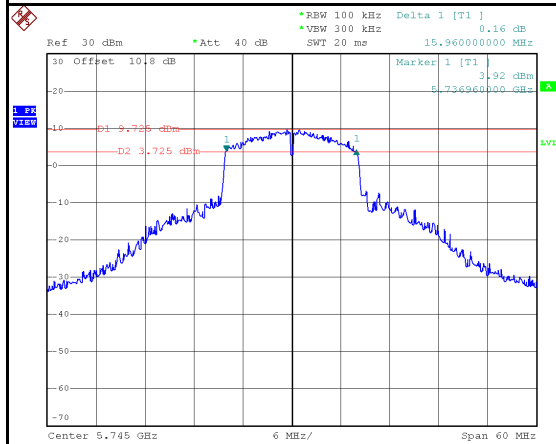
Date: 7.AUG.2025 12:34:49



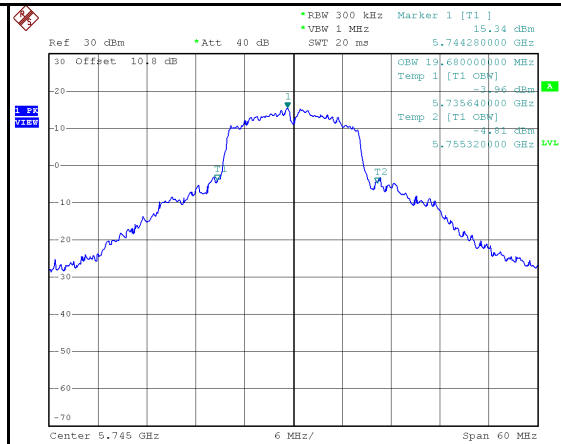
Date: 7.AUG.2025 12:35:00

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
5745	15.96	19.68	500	Pass
5785	16.08	19.80	500	Pass
5825	15.60	20.76	500	Pass

5745 MHz

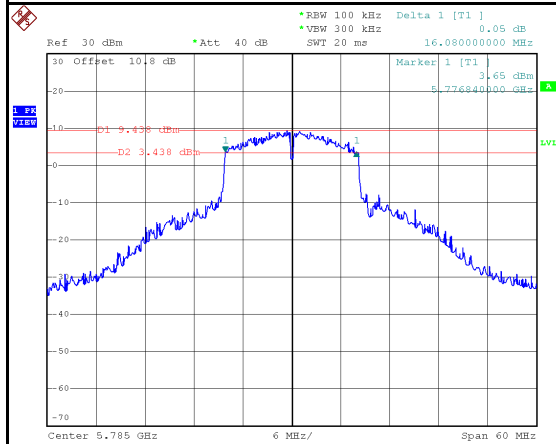


Date: 7.AUG.2025 14:30:12

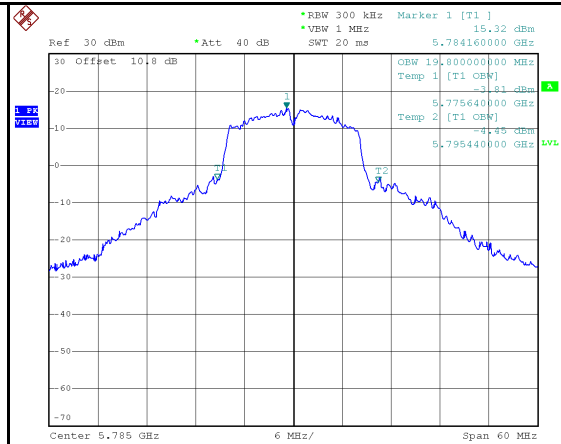


Date: 7.AUG.2025 14:27:25

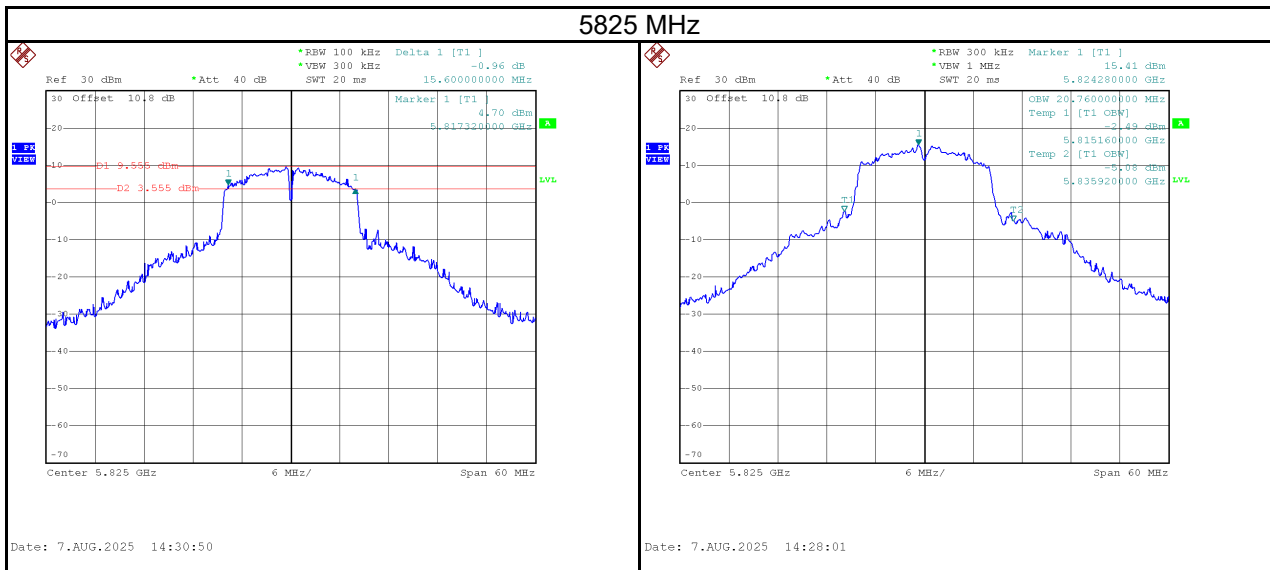
5785 MHz



Date: 7.AUG.2025 14:30:27



Date: 7.AUG.2025 14:27:45



APPENDIX F CONDUCTED OUTPUT POWER

Test Mode	IEEE 802.11a	Tested Date	2025/8/4 ~ 2025/8/7
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Frequency (MHz)	Average Power (dBm)	Average Power (W)	Power Limit (dBm)	Power Limit (W)	Result
5180	17.64	0.0581	24.00	0.2512	Pass
5200	17.11	0.0514	24.00	0.2512	Pass
5240	16.46	0.0443	24.00	0.2512	Pass
5745	24.41	0.2761	30.00	1.0000	Pass
5785	24.35	0.2723	30.00	1.0000	Pass
5825	24.28	0.2679	30.00	1.0000	Pass

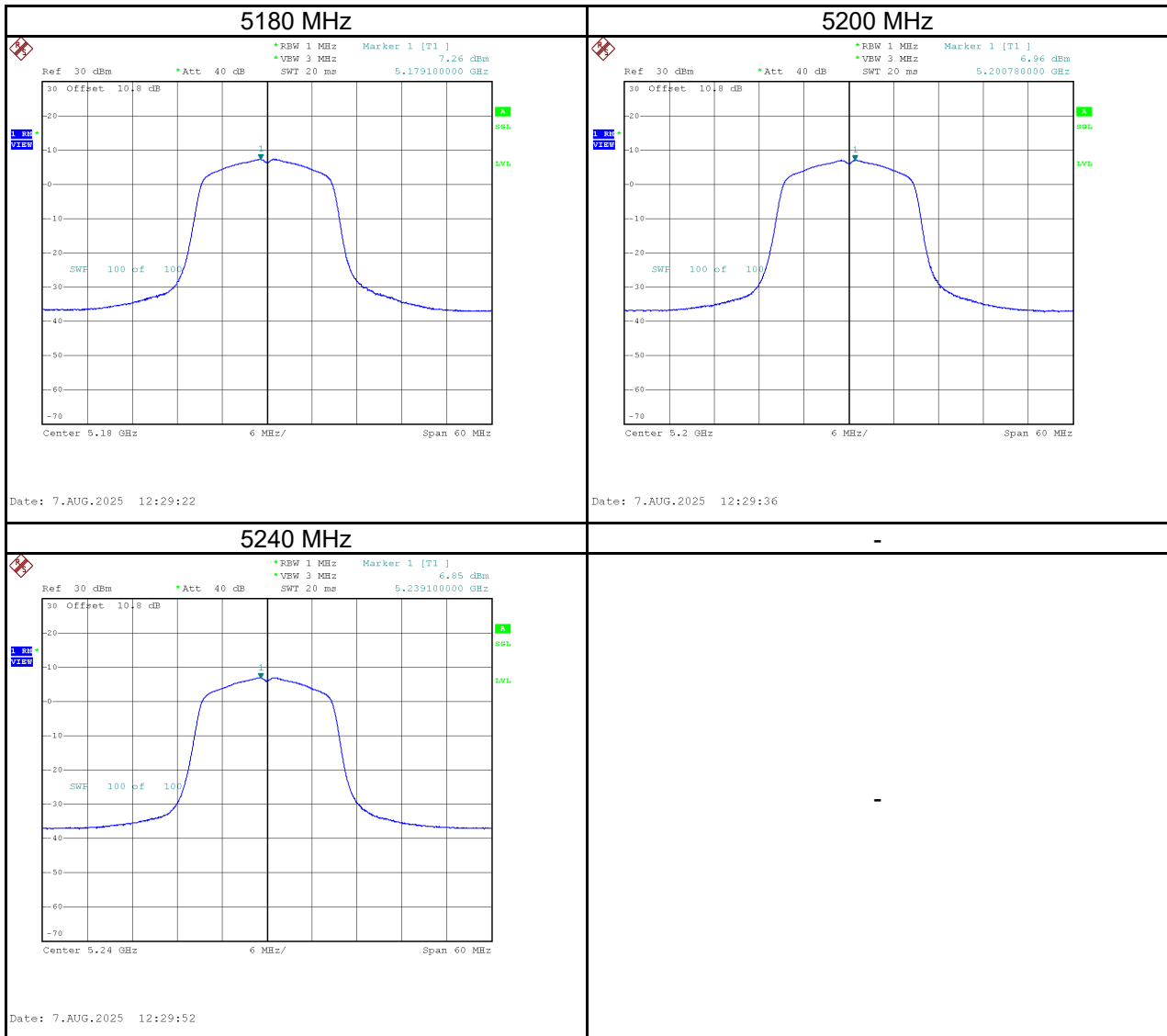
Test Mode	IEEE 802.11n (HT20)	Tested Date	2025/8/4 ~ 2025/8/7
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Frequency (MHz)	Average Power (dBm)	Average Power (W)	Power Limit (dBm)	Power Limit (W)	Result
5180	17.12	0.0515	24.00	0.2512	Pass
5200	16.93	0.0493	24.00	0.2512	Pass
5240	16.49	0.0446	24.00	0.2512	Pass
5745	24.34	0.2716	30.00	1.0000	Pass
5785	24.28	0.2679	30.00	1.0000	Pass
5825	24.18	0.2618	30.00	1.0000	Pass

APPENDIX G POWER SPECTRAL DENSITY

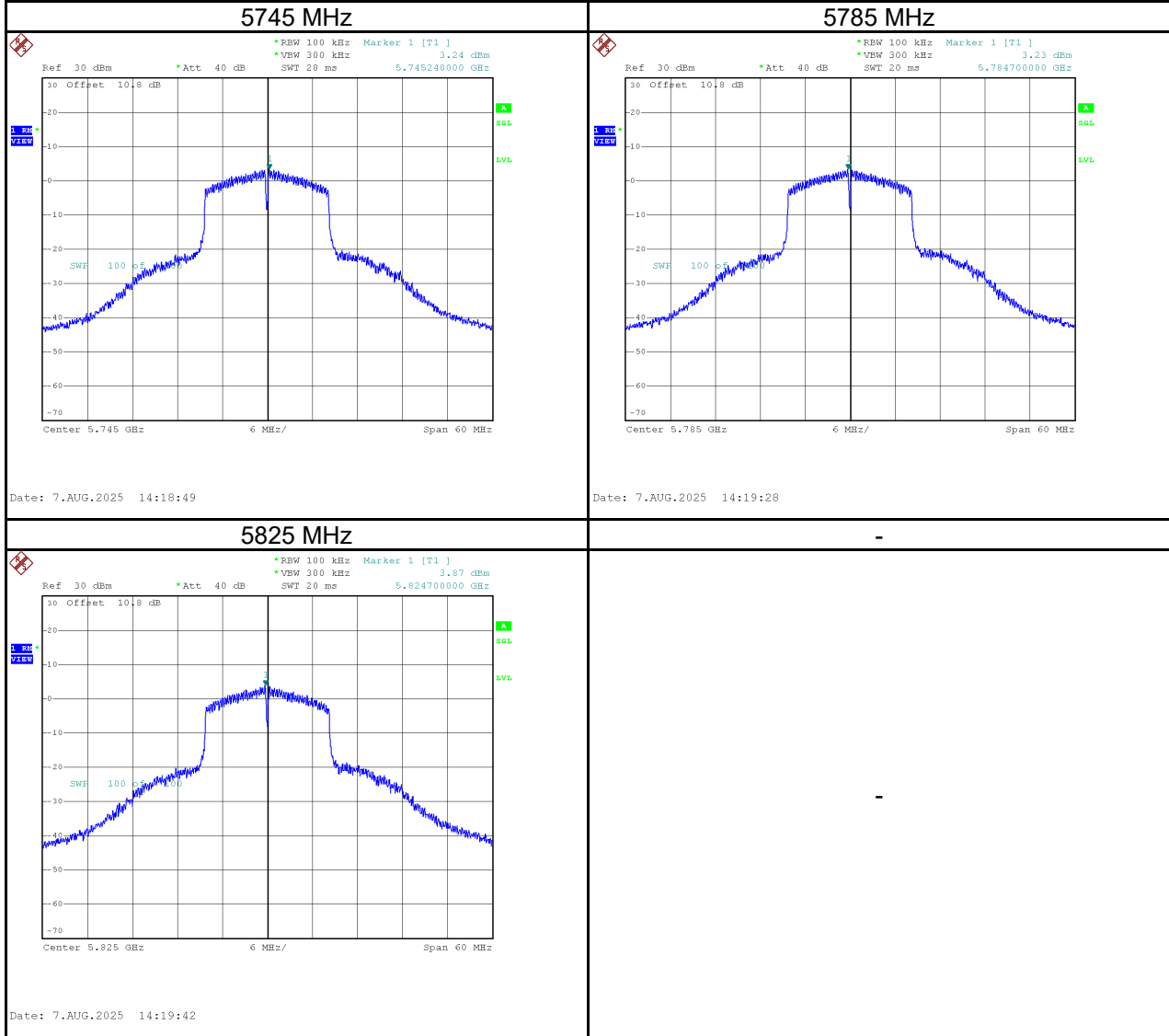
Test Mode	IEEE 802.11a
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Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	7.26	0.00	7.26	11.00	Pass
5200	6.96	0.00	6.96	11.00	Pass
5240	6.85	0.00	6.85	11.00	Pass



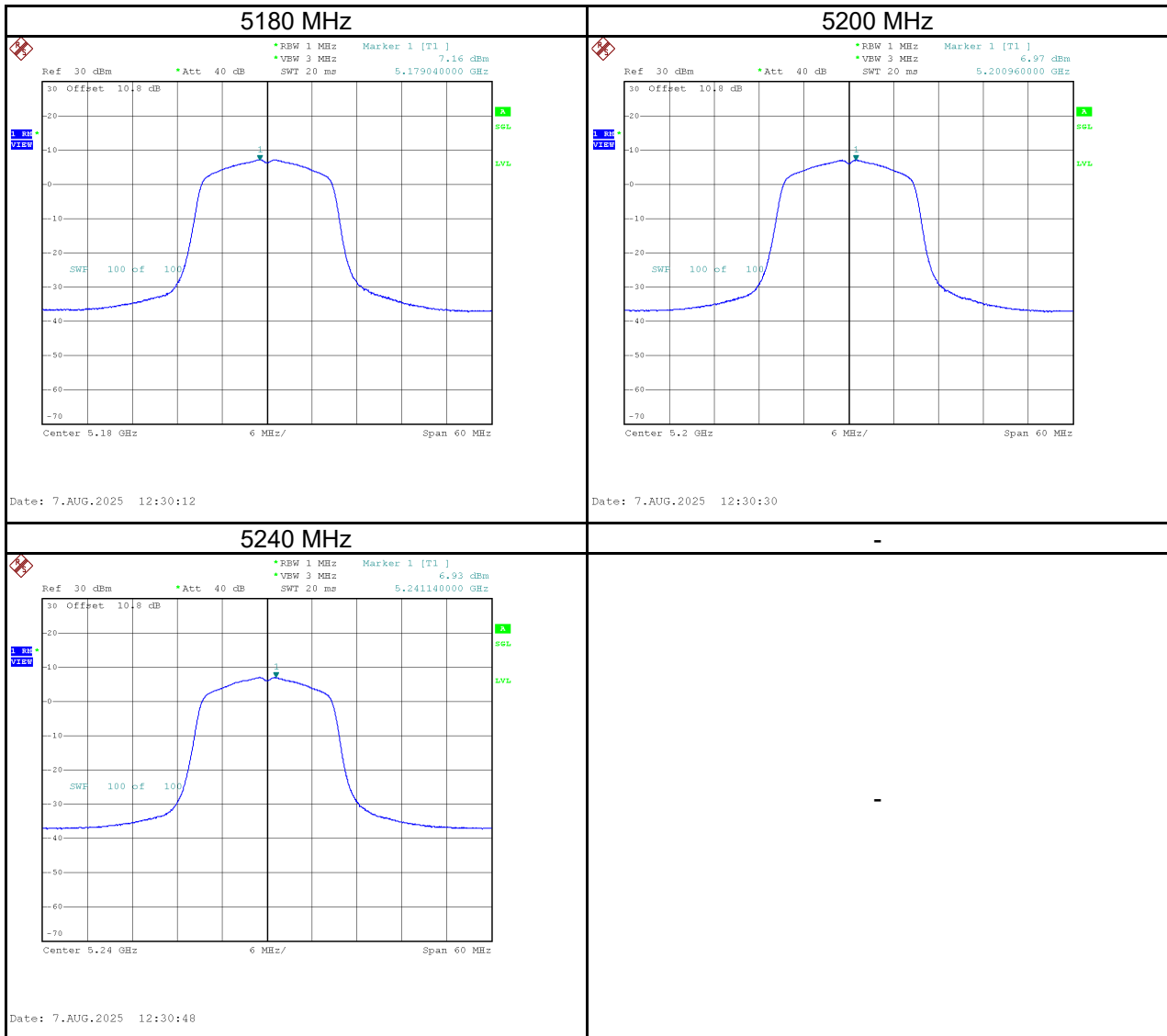
Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5745	3.24	10.23	0.00	10.23	30.00	Pass
5785	3.23	10.22	0.00	10.22	30.00	Pass
5825	3.87	10.86	0.00	10.86	30.00	Pass

NOTE: $PSD_{dBm/500\text{ kHz}} = PSD_{dBm/100\text{ kHz}} + 10 \times \log_{10}(500\text{ kHz} / 100\text{ kHz})$



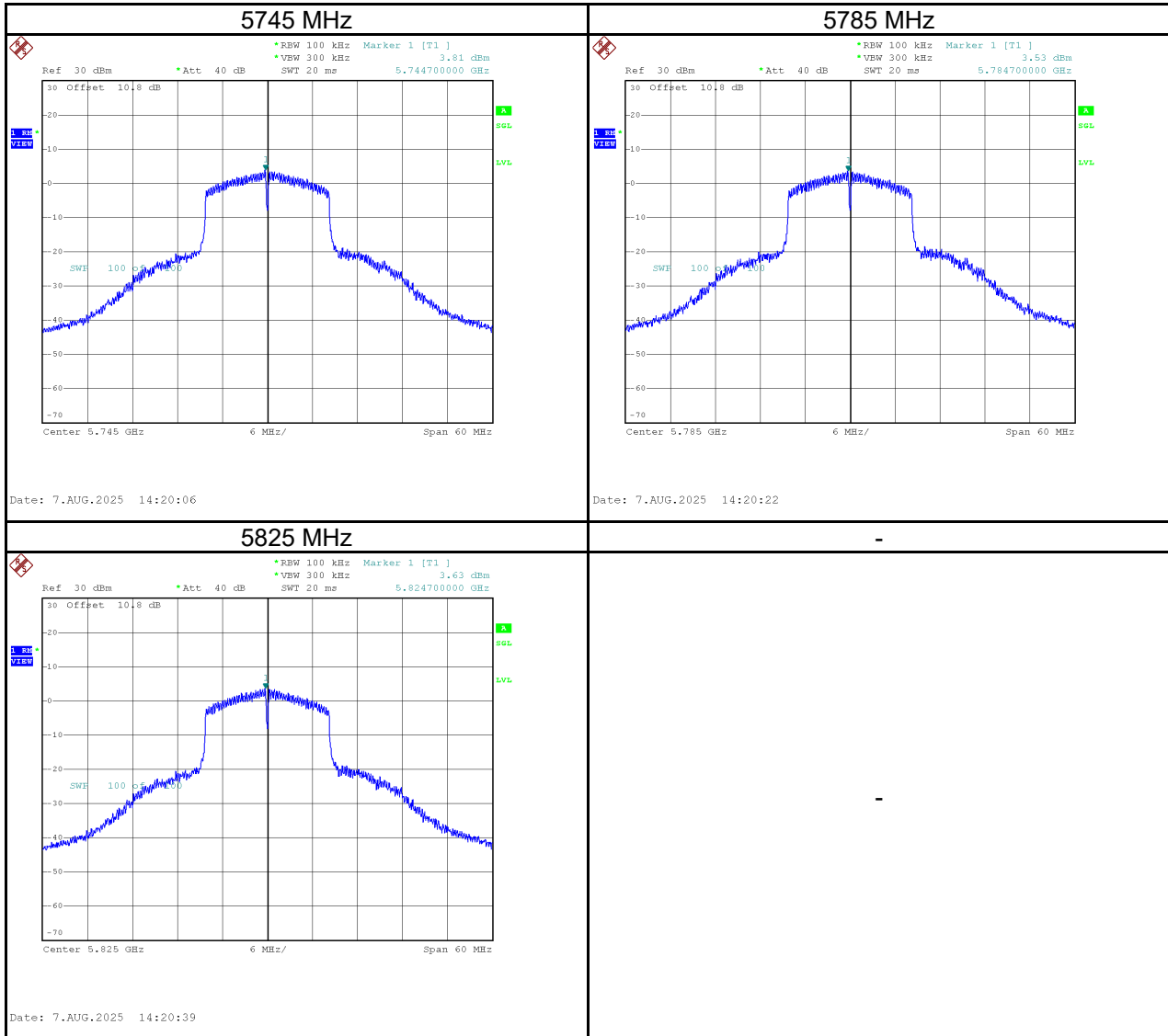
Test Mode	IEEE 802.11n (HT20)
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Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	7.16	0.00	7.16	11.00	Pass
5200	6.97	0.00	6.97	11.00	Pass
5240	6.93	0.00	6.93	11.00	Pass



Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5745	3.81	10.80	0.00	10.80	30.00	Pass
5785	3.53	10.52	0.00	10.52	30.00	Pass
5825	3.63	10.62	0.00	10.62	30.00	Pass

NOTE: $PSD_{dBm/500\text{ kHz}} = PSD_{dBm/100\text{ kHz}} + 10 \times \log_{10}(500\text{ kHz} / 100\text{ kHz})$



End of Test Report