

FCC Radio Test Report

FCC ID: 2AXLP-WINCHECKS2

Report No. : BTL-FCCP-2-2210T119
Equipment : WinCheck™ S2
Model Name : WinCheck™ S2
Brand Name : IGT
Applicant : International Game Technology
Address : 9295 Prototype Drive, Reno, NV

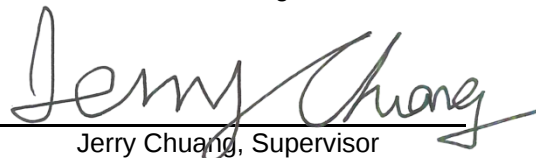
Radio Function : RLAN 5 GHz (U-NII 1, U-NII 2A, U-NII 2C, U-NII 3)

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

Date of Receipt : 2022/11/17
Date of Test : 2022/11/29 ~ 2023/6/28
Issued Date : 2023/7/17

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** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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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-2-2210T119	R00	Original Report.	2023/7/17	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	Pass	-----
15.407(a)	Bandwidth	APPENDIX D	Pass	-----
15.407(a)	Output Power	APPENDIX E	Pass	-----
15.407(a)	Power Spectral Density	APPENDIX F	Pass	-----
15.203	Antenna Requirement	-----	Pass	-----
15.407(c)	Automatically Discontinue Transmission	-----	Pass	NOTE (3)

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. 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 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	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	19 °C, 65 %	AC 120V	Paul Shen
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	23 °C, 51 %	AC 120V	Paul Shen
Output Power	23 °C, 51 %	AC 120V	Paul Shen
Power Spectral Density	23 °C, 51 %	AC 120V	Paul Shen

1.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

UNII-1				
Test Software	Tera Term V.4.84			
Mode	5180 MHz	5200 MHz	5240 MHz	Data Rate
IEEE 802.11a	45	43	42	6 Mbps
IEEE 802.11n (HT20)	43	43	42	MCS 0
Mode	5190 MHz	5230 MHz		Data Rate
IEEE 802.11n (HT40)	40	39		MCS 0

UNII-2A				
Test Software	Tera Term V.4.84			
Mode	5260 MHz	5300 MHz	5320 MHz	Data Rate
IEEE 802.11a	42	42	42	6 Mbps
IEEE 802.11n (HT20)	42	42	42	MCS 0
Mode	5270 MHz	5310 MHz		Data Rate
IEEE 802.11n (HT40)	39	39		MCS 0

UNII-2C				
Test Software	Tera Term V.4.84			
Mode	5500 MHz	5580 MHz	5700 MHz	Data Rate
IEEE 802.11a	42	39	38	6 Mbps
IEEE 802.11n (HT20)	42	40	38	MCS 0
Mode	5510 MHz	5550 MHz	5670 MHz	Data Rate
IEEE 802.11n (HT40)	38	36	36	MCS 0

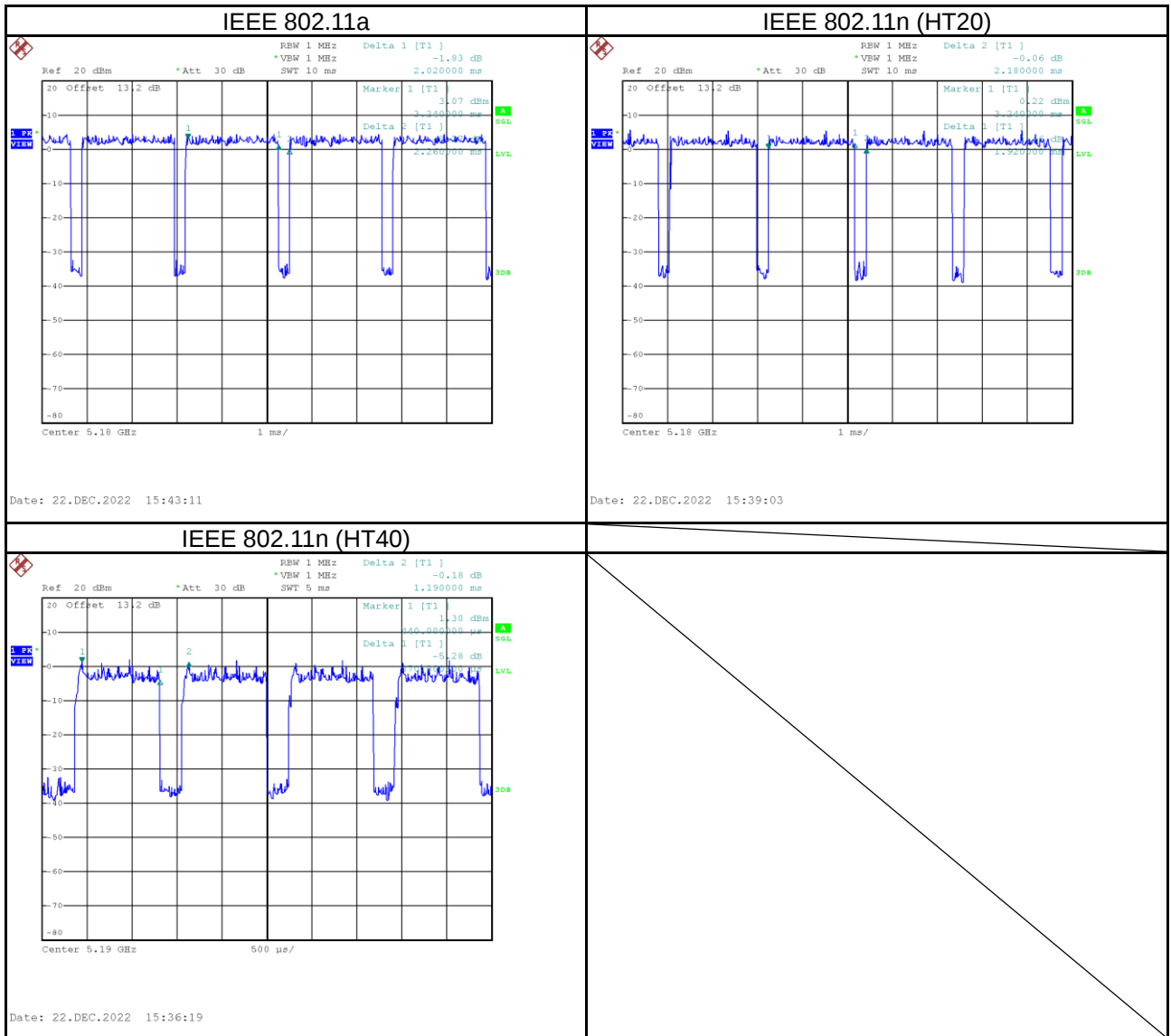
UNII-3				
Test Software	Tera Term V.4.84			
Mode	5745 MHz	5785 MHz	5825 MHz	Data Rate
IEEE 802.11a	36	36	37	6 Mbps
IEEE 802.11n (HT20)	36	36	38	MCS 0
Mode	5755 MHz	5795 MHz		Data Rate
IEEE 802.11n (HT40)	33	34		MCS 0

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 1			Delta 2	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	2.020	1	2.020	2.260	89.38%	0.49
IEEE 802.11n (HT20)	1.920	1	1.920	2.180	88.07%	0.55
IEEE 802.11n (HT40)	0.870	1	0.870	1.190	73.11%	1.36



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	WinCheck™ S2
Model Name	WinCheck™ S2
Brand Name	IGT
Model Difference	N/A
Power Source	DC Voltage supplied from AC/DC adapter.
Power Rating	EUT: 5V $\square$, 1A For Adapter: I/P: 100-240V~50/60Hz 0.3A O/P: 5.0V $\square$ 2.0A 10.0W
Products Covered	1 * Adapter: NETZTEIL / ICP12-050-2000D
Operation Band	UNII-1: 5150 MHz to 5250 MHz UNII-2A: 5250 MHz to 5350 MHz UNII-2C: 5470 MHz to 5725 MHz UNII-3: 5725 MHz to 5850 MHz
Operation Frequency	UNII-1: 5180 MHz to 5240 MHz UNII-2A: 5260 MHz to 5320 MHz UNII-2C: 5500 MHz to 5700 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 150 Mbps
Output Power Max. for UNII-1	IEEE 802.11a: 12.82 dBm (0.0191 W) IEEE 802.11n (HT20): 12.82 dBm (0.0191 W) IEEE 802.11n (HT40): 12.85 dBm (0.0193 W)
Output Power Max. for UNII-2A	IEEE 802.11a: 12.66 dBm (0.0185 W) IEEE 802.11n (HT20): 12.80 dBm (0.0191 W) IEEE 802.11n (HT40): 12.79 dBm (0.0190 W)
Output Power Max. for UNII-2C	IEEE 802.11a: 12.78 dBm (0.0190 W) IEEE 802.11n (HT20): 12.82 dBm (0.0191 W) IEEE 802.11n (HT40): 12.77 dBm (0.0189 W)
Output Power Max. for UNII-3	IEEE 802.11a: 10.86 dBm (0.0122 W) IEEE 802.11n (HT20): 10.88 dBm (0.0122 W) IEEE 802.11n (HT40): 10.62 dBm (0.0115 W)
Test Model	WinCheck™ S2
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)		IEEE 802.11n (HT40)	
UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220		
48	5240		

IEEE 802.11a IEEE 802.11n (HT20)		IEEE 802.11n (HT40)	
UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270
56	5280	62	5310
60	5300		
64	5320		

IEEE 802.11a IEEE 802.11n (HT20)		IEEE 802.11n (HT40)	
UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510
104	5520	110	5550
108	5540	118	5590
112	5560	126	5630
116	5580	134	5670
120	5600		
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		

IEEE 802.11a IEEE 802.11n (HT20)		IEEE 802.11n (HT40)	
UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755
153	5765	159	5795
157	5785		
161	5805		
165	5825		

(3) Table for Filed Antenna:

Antenna	Manufacture	Model	Type	Connector	Frequency Range (MHz)	Gain (dBi)
1	Bi Qing Technology Co., Ltd.	SA-3225	Printer Antenna	N/A	2400-2500	5.8
					5150-5250	4.5
					5250-5350	4.5
					5470-5725	5.0
					5725-5850	5.6

(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 802.11n (HT40)	38	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_ IEEE 802.11a	36/48, 52/64	Bandedge
	TX Mode_ IEEE 802.11n (HT20)	100/140, 149/165	
	TX Mode_ IEEE 802.11n (HT40)	38/46, 54/62 102/134, 151/159	
	TX Mode_ IEEE 802.11a	36/40/48 52/60/64	Harmonic
	TX Mode_ IEEE 802.11n (HT20)	100/116/140 149/157/165	
	TX Mode_ IEEE 802.11n (HT40)	38/46/ 54/62 102/110/134 151/159	
Bandwidth & Power Spectral Density & Output Power	TX Mode_ IEEE 802.11a	36/40/48 52/60/64	-
	TX Mode_ IEEE 802.11n (HT20)	100/116/140 149/157/165	
	TX Mode_ IEEE 802.11n (HT40)	38/46 54/62 102/110/134 151/159	

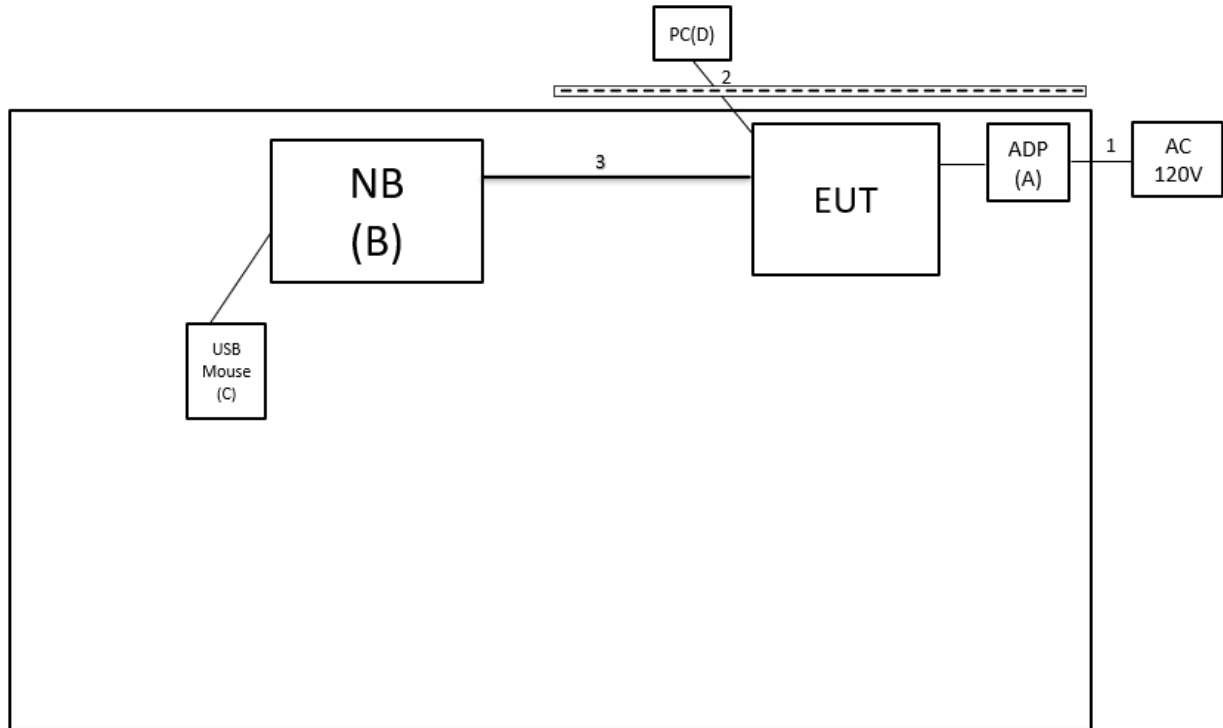
NOTE:

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

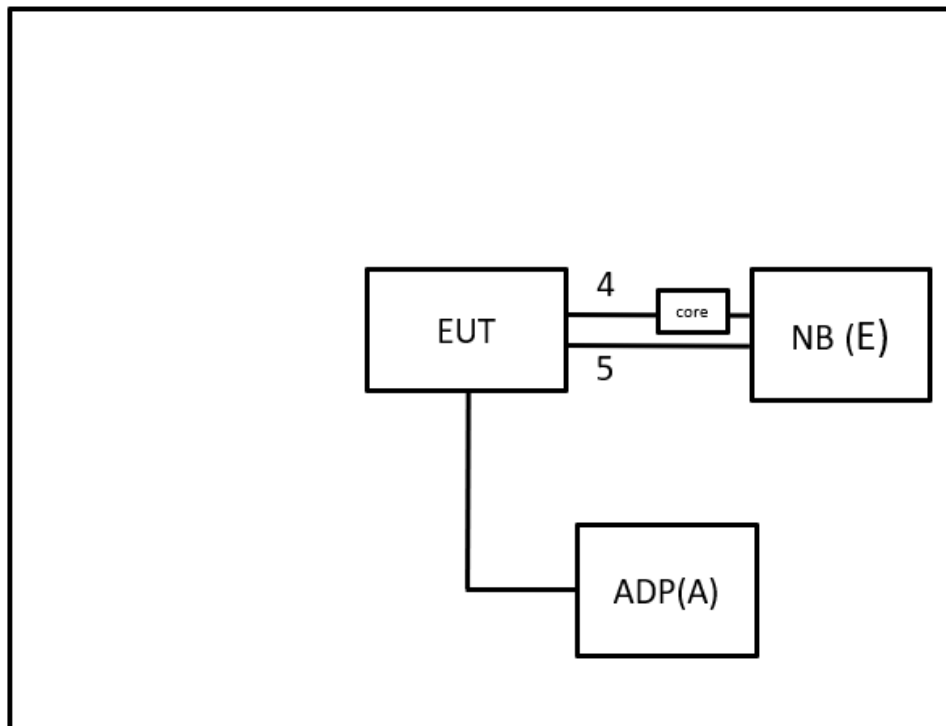
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	NETZTEIL	ICP12-050-2000D	N/A	Supplied by test requester.
B	NB	ASUS	X450J	N/A	Furnished by test lab.
C	USB Mouse	DELL	MOCZUL	CN-049TWY-PR C00-79E-01HA	Furnished by test lab.
D	PC	DELL	OptiPlex 7080	9T3HN A00	Furnished by test lab.
E	NB	HP	TPN-I119	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1.2m	Power Cable	Furnished by test lab.
2	N/A	N/A	2m	RJ-45 Cable	Furnished by test lab.
3	N/A	N/A	1.2m	USB A to B	Furnished by test lab.
4	N/A	FC1000	1m	RJ45 Cable	Furnished by test lab.
5	N/A	N/A	1.8m	Type A To USB Cable	Supplied by test requester.

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.

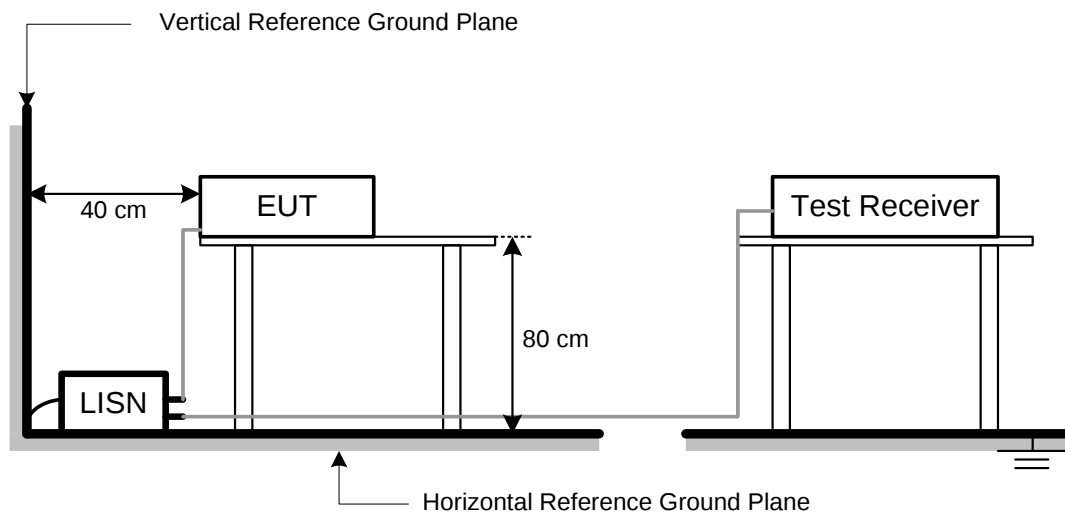
NOTE:

- (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		Correct Factor		Measurement Value
36.23	+	-11.97	=	24.26

Measurement Value		Limit Value		Margin Level
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

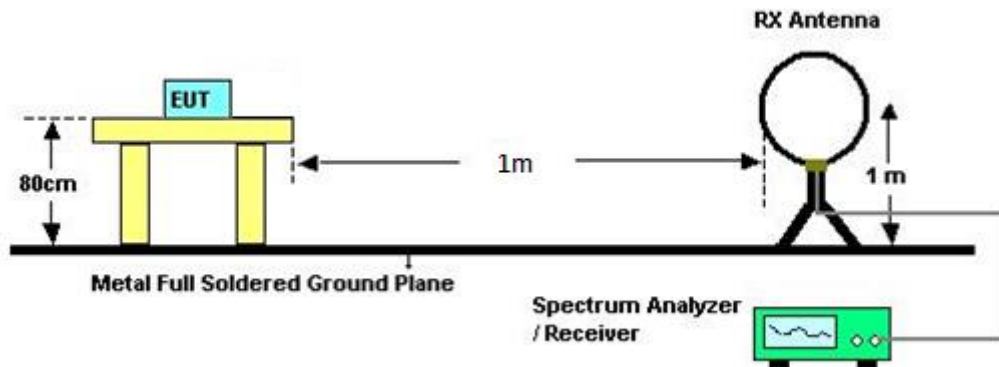
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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

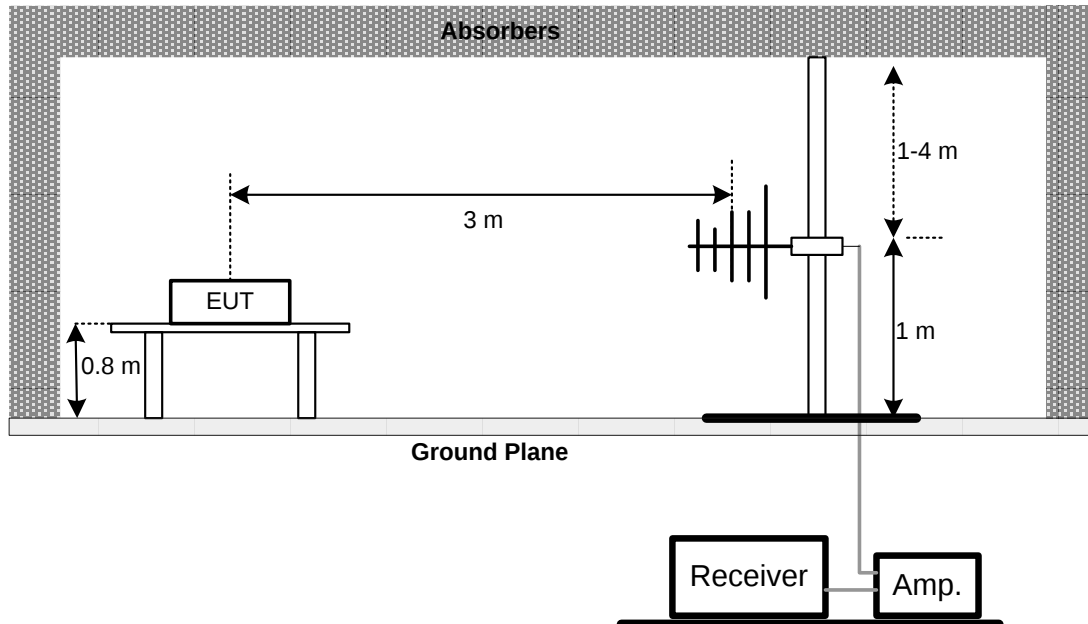
No deviation.

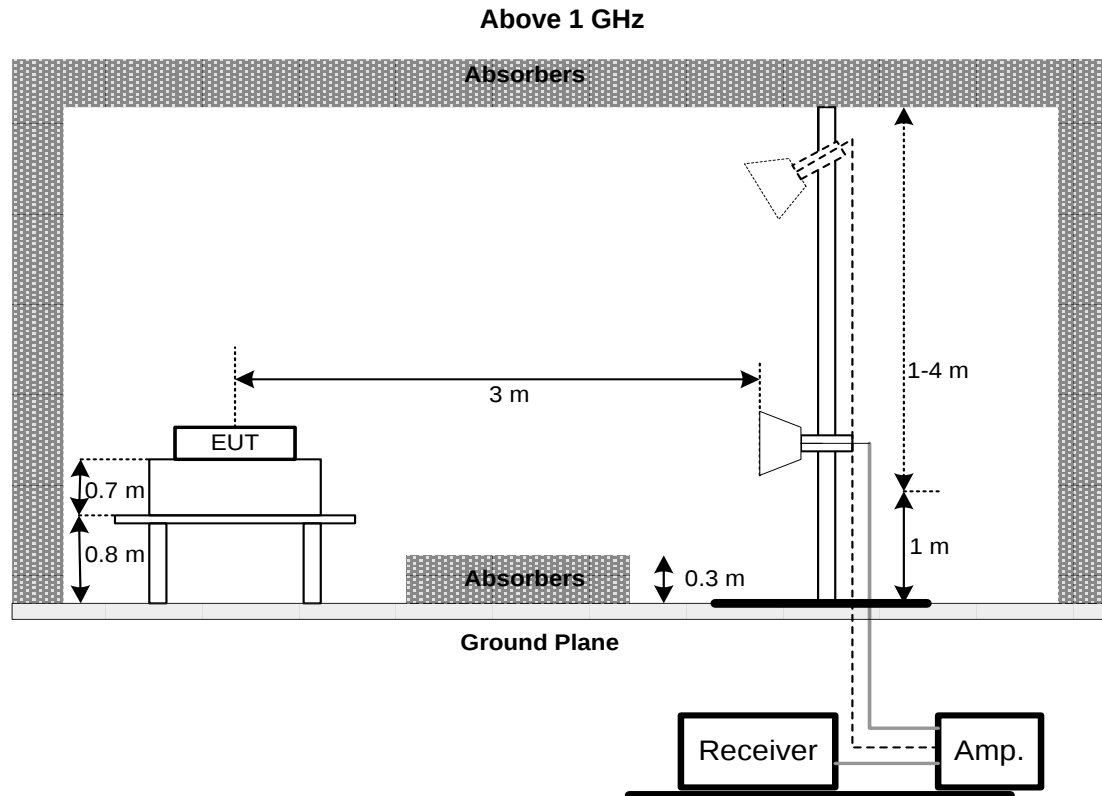
4.4 TEST SETUP

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 – BELOW 30 MHZ

There were no emissions found below 30 MHz within 20 dB of the limit.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX C.

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 D.

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) Mobile and portable: 250 mW (24 dBm)	5150-5250
		250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz	5250-5350
			5470-5725
		1 Watt (30dBm)	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).

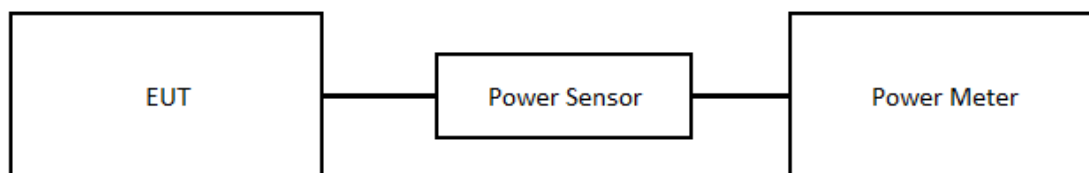
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. 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.
 - a) Method PM (Measurement using an RF average power meter):
 - (i) 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.
 - (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
 - (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
 - (iv) 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 E.

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 F.

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	101521	2022/9/28	2023/9/27
2	Test Cable	EMCI	EMCCFD300-BM-BMR-5000	220331	2022/3/31	2023/3/30
3	EMI Test Receiver	R&S	ESR 7	101433	2022/11/16	2023/11/15
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	2022/9/19	2023/9/18
2	Preamplifier	EMCI	EMC118A45SE	980819	2022/3/8	2023/3/7
3	Preamplifier	EMCI	EMC184045SE	980882	2022/2/9	2023/2/8
4	Preamplifier	EMCI	EMC001340	980579	2022/9/30	2023/9/29
5	Test Cable	EMCI	EMC104-SM-SM-1000	220319	2022/3/15	2023/3/14
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2022/3/15	2023/3/14
7	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2022/3/15	2023/3/14
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2022/3/7	2023/3/6
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2022/9/19	2023/9/18
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2022/5/18	2023/5/17
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2022/5/18	2023/5/17
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2022/5/20	2023/5/19
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-N0625	2022/5/20	2023/5/19
14	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2022/3/15	2023/3/14
15	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2022/3/15	2023/3/14
16	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	2022/9/19	2023/9/18
2	Preamplifier	EMCI	EMC118A45SE	980819	2023/3/7	2024/3/6
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2022/9/28	2023/9/27
4	Preamplifier	EMCI	EMC001340	980579	2022/9/30	2023/9/29
5	Test Cable	EMCI	EMC104-SM-SM-1000	220319	2023/3/14	2024/3/13
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2023/3/14	2024/3/13
7	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2023/3/14	2024/3/13
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2022/9/19	2023/9/18
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2023/5/12	2024/5/11
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2023/5/12	2024/5/11
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2023/5/9	2024/5/8
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2023/5/9	2024/5/8
14	Test Cable	EMCI	EMC101G-KM-K M-3000	220329	2023/3/14	2024/3/13
15	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2023/3/14	2024/3/13
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	FSP38	101139	2022/3/2	2023/3/1

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSV7	103032	2022/8/9	2023/8/8
2	Spectrum Analyzer	R&S	FSP38	101139	2022/3/2	2023/3/1

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP38	101139	2022/3/2	2023/3/1

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

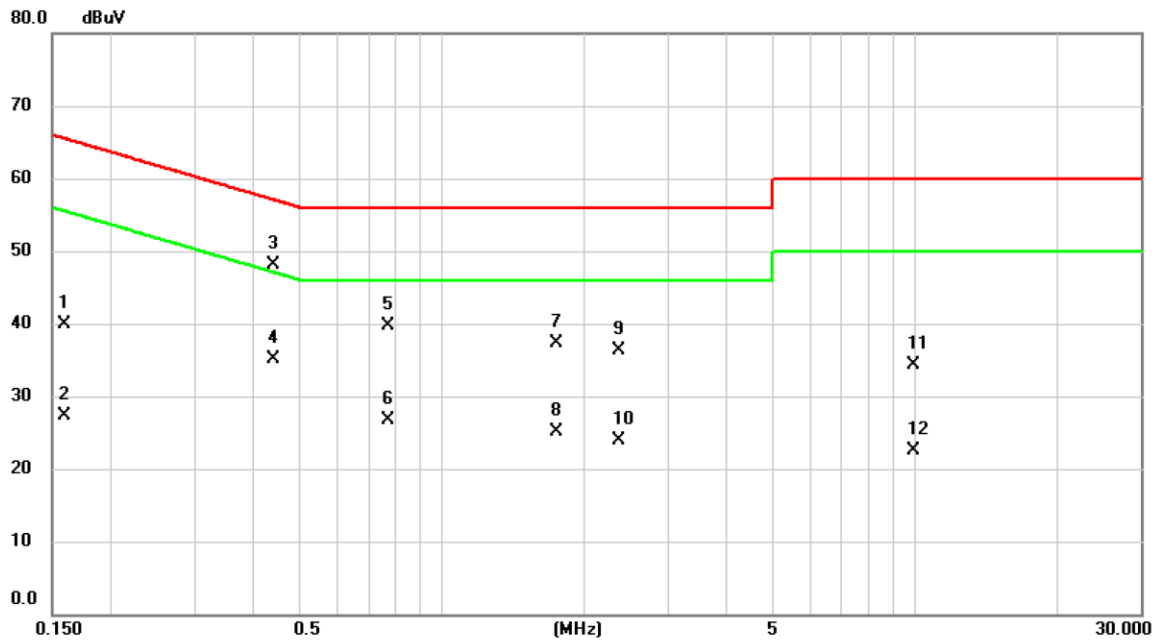
Please refer to document Appendix No.: TP-2210T119-FCCP-1 (APPENDIX-TEST PHOTOS).

10 EUT PHOTOS

Please refer to document Appendix No.: EP-2210T119-3 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2022/12/22
Test Frequency	-	Phase	Line

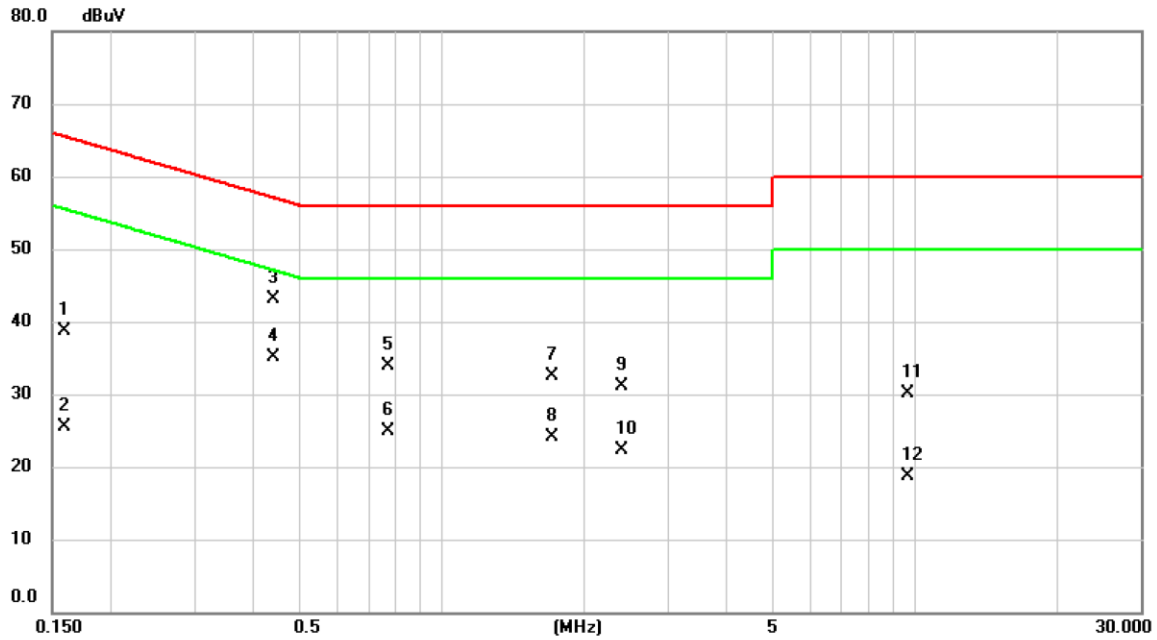


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	30.27	9.64	39.91	65.52	-25.61	QP	
2		0.1590	17.74	9.64	27.38	55.52	-28.14	AVG	
3	*	0.4402	38.38	9.66	48.04	57.06	-9.02	QP	
4		0.4402	25.36	9.66	35.02	47.06	-12.04	AVG	
5		0.7687	29.93	9.69	39.62	56.00	-16.38	QP	
6		0.7687	17.07	9.69	26.76	46.00	-19.24	AVG	
7		1.7430	27.68	9.72	37.40	56.00	-18.60	QP	
8		1.7430	15.34	9.72	25.06	46.00	-20.94	AVG	
9		2.3708	26.51	9.74	36.25	56.00	-19.75	QP	
10		2.3708	14.17	9.74	23.91	46.00	-22.09	AVG	
11		9.9194	24.44	9.95	34.39	60.00	-25.61	QP	
12		9.9194	12.55	9.95	22.50	50.00	-27.50	AVG	

REMARKS:

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

Test Mode	Normal	Tested Date	2022/12/22
Test Frequency	-	Phase	Neutral

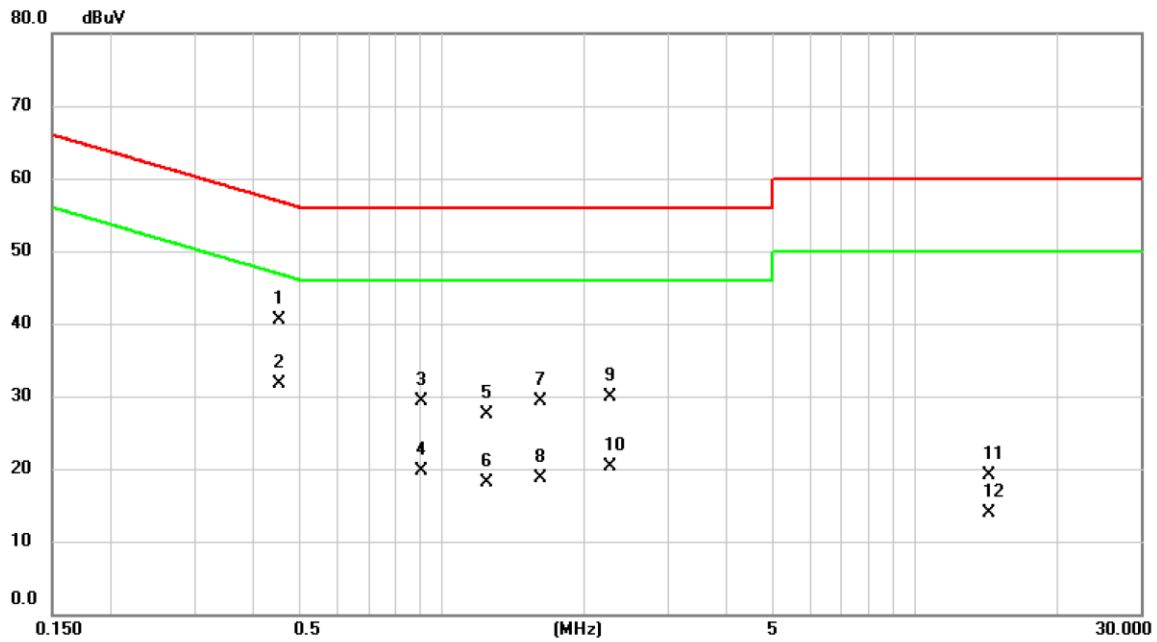


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	29.01	9.65	38.66	65.52	-26.86	QP	
2		0.1590	15.90	9.65	25.55	55.52	-29.97	AVG	
3		0.4402	33.37	9.67	43.04	57.06	-14.02	QP	
4	*	0.4402	25.45	9.67	35.12	47.06	-11.94	AVG	
5		0.7710	24.24	9.70	33.94	56.00	-22.06	QP	
6		0.7710	15.11	9.70	24.81	46.00	-21.19	AVG	
7		1.7115	22.81	9.73	32.54	56.00	-23.46	QP	
8		1.7115	14.43	9.73	24.16	46.00	-21.84	AVG	
9		2.3955	21.27	9.76	31.03	56.00	-24.97	QP	
10		2.3955	12.56	9.76	22.32	46.00	-23.68	AVG	
11		9.6630	20.03	9.98	30.01	60.00	-29.99	QP	
12		9.6630	8.63	9.98	18.61	50.00	-31.39	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2022/12/22
Test Frequency	-	Phase	Line

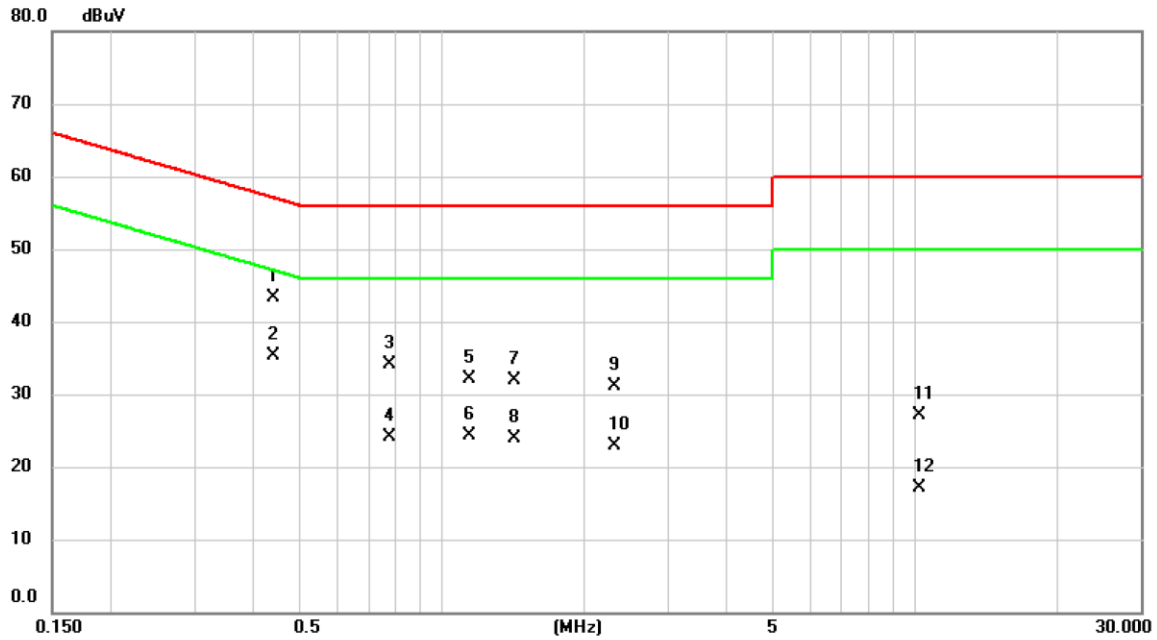


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.4537	30.82	9.67	40.49	56.81	-16.32	QP	
2	*	0.4537	22.10	9.67	31.77	46.81	-15.04	AVG	
3		0.9082	19.54	9.70	29.24	56.00	-26.76	QP	
4		0.9082	10.03	9.70	19.73	46.00	-26.27	AVG	
5		1.2435	17.84	9.71	27.55	56.00	-28.45	QP	
6		1.2435	8.49	9.71	18.20	46.00	-27.80	AVG	
7		1.6125	19.49	9.73	29.22	56.00	-26.78	QP	
8		1.6125	8.95	9.73	18.68	46.00	-27.32	AVG	
9		2.2740	20.21	9.75	29.96	56.00	-26.04	QP	
10		2.2740	10.47	9.75	20.22	46.00	-25.78	AVG	
11		14.3362	9.01	10.06	19.07	60.00	-40.93	QP	
12		14.3362	3.91	10.06	13.97	50.00	-36.03	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2022/12/22
Test Frequency	-	Phase	Neutral



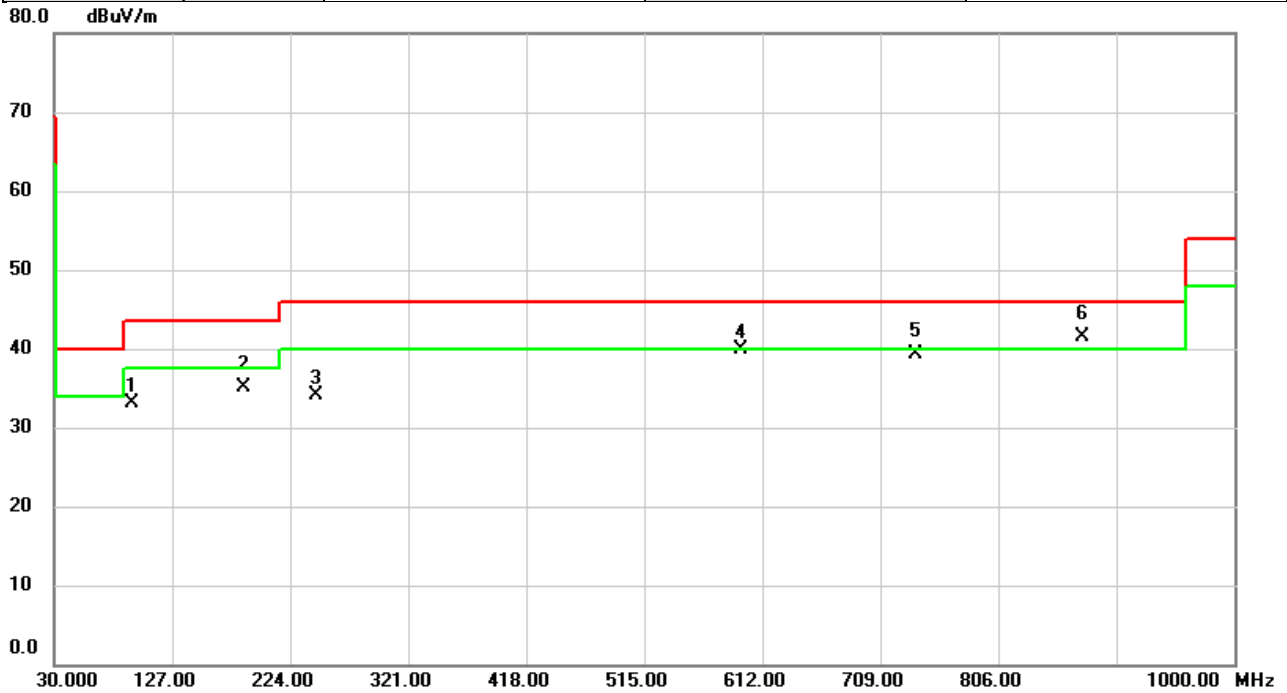
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4402	33.70	9.67	43.37	57.06	-13.69	QP	
2	*	0.4402	25.60	9.67	35.27	47.06	-11.79	AVG	
3		0.7731	24.31	9.70	34.01	56.00	-21.99	QP	
4		0.7731	14.32	9.70	24.02	46.00	-21.98	AVG	
5		1.1422	22.43	9.71	32.14	56.00	-23.86	QP	
6		1.1422	14.69	9.71	24.40	46.00	-21.60	AVG	
7		1.4235	22.25	9.72	31.97	56.00	-24.03	QP	
8		1.4235	14.23	9.72	23.95	46.00	-22.05	AVG	
9		2.3212	21.26	9.75	31.01	56.00	-24.99	QP	
10		2.3212	13.08	9.75	22.83	46.00	-23.17	AVG	
11		10.2030	17.04	9.98	27.02	60.00	-32.98	QP	
12		10.2030	7.10	9.98	17.08	50.00	-32.92	AVG	

REMARKS:

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

APPENDIX B RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/6/28
Test Frequency	5190MHz	Polarization	Vertical
Temp	25°C	Hum.	51%

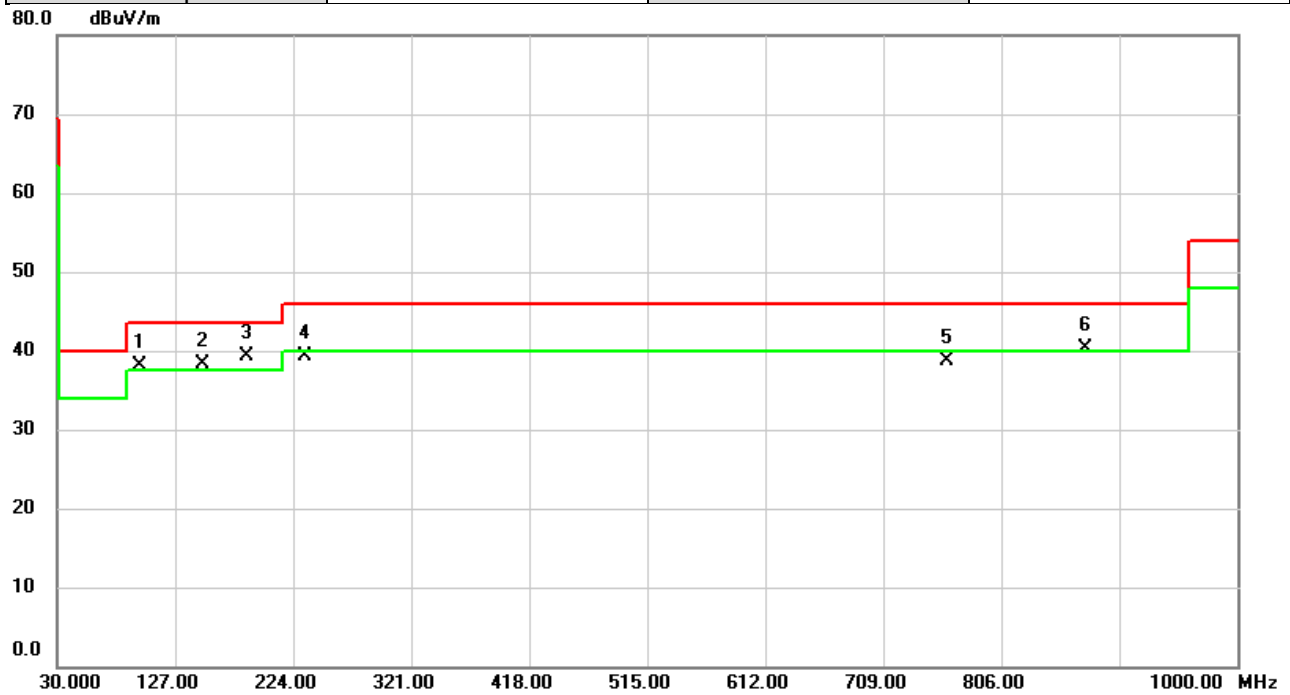


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		94.3621	50.45	-17.36	33.09	43.50	-10.41	peak	
2		185.2630	49.11	-14.00	35.11	43.50	-8.39	QP	
3		245.9866	47.29	-13.27	34.02	46.00	-11.98	peak	
4		594.1226	44.07	-4.13	39.94	46.00	-6.06	peak	
5		738.1513	41.05	-1.80	39.25	46.00	-6.75	QP	
6	*	874.9990	41.34	0.16	41.50	46.00	-4.50	QP	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/6/28
Test Frequency	5190MHz	Polarization	Horizontal
Temp	25°C	Hum.	51%



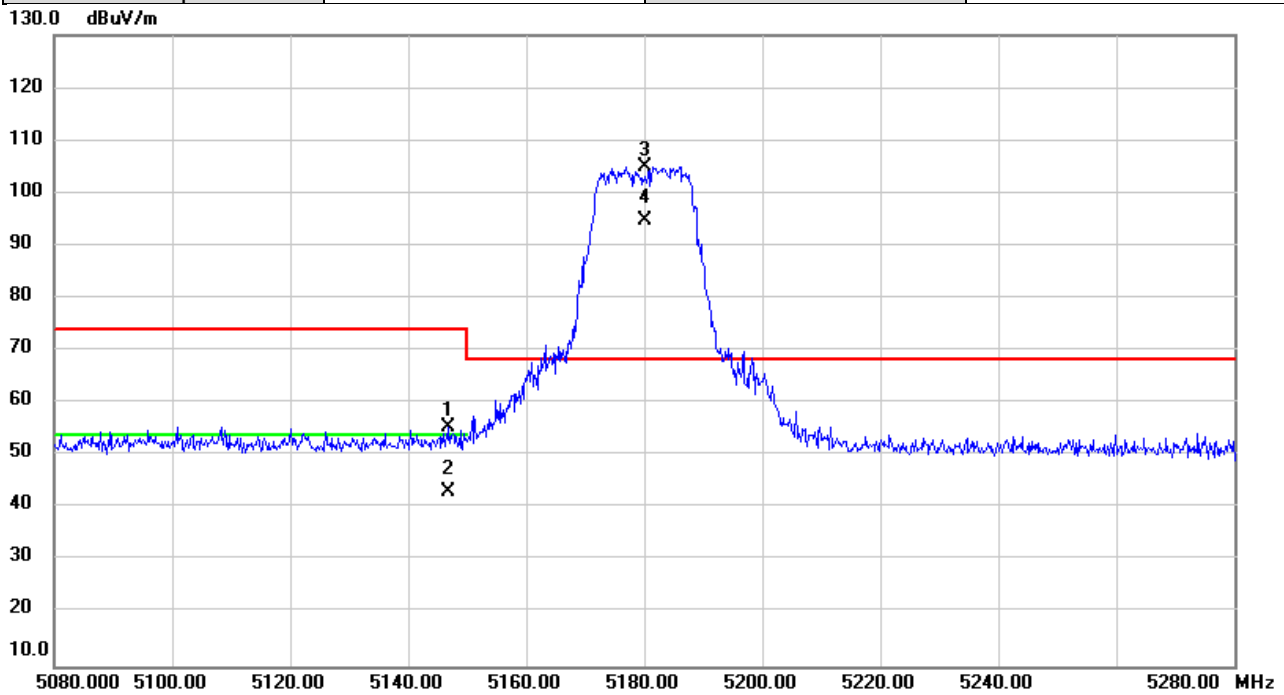
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		98.4171	55.13	-16.95	38.18	43.50	-5.32	QP	
2		149.9566	50.32	-11.95	38.37	43.50	-5.13	QP	
3	*	185.9772	53.43	-14.10	39.33	43.50	-4.17	QP	
4		234.0233	53.44	-14.19	39.25	46.00	-6.75	QP	
5		761.9941	40.05	-1.36	38.69	46.00	-7.31	QP	
6		874.9990	40.16	0.16	40.32	46.00	-5.68	QP	

REMARKS:

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

APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

Test Mode	IEEE 802.11a	Test Date	2022/12/22
Test Frequency	5180MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



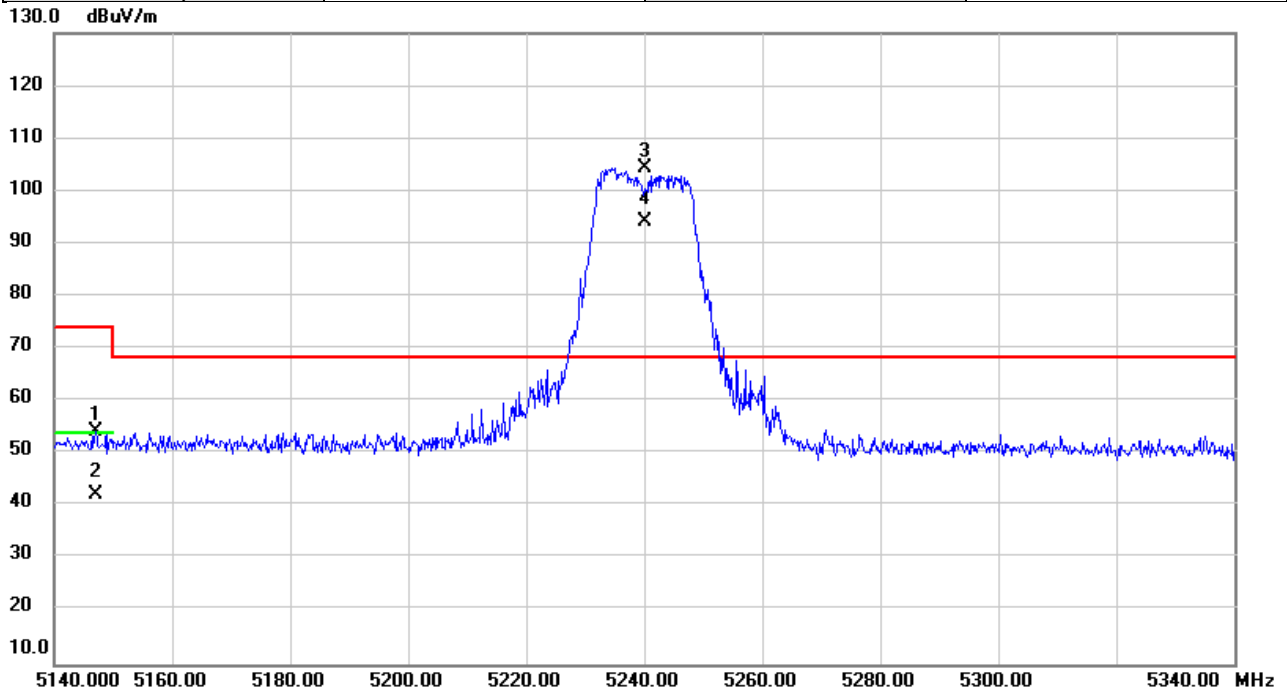
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5146.833	54.15	1.37	55.52	74.00	-18.48	peak	
2		5146.833	41.64	1.37	43.01	54.00	-10.99	AVG	
3	*	5180.000	103.62	1.39	105.01	68.20	36.81	peak	No Limit
4	X	5180.000	93.22	1.39	94.61	68.20	26.41	AVG	No Limit

REMARKS:

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

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

Test Mode	IEEE 802.11a	Test Date	2022/12/22
Test Frequency	5240MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



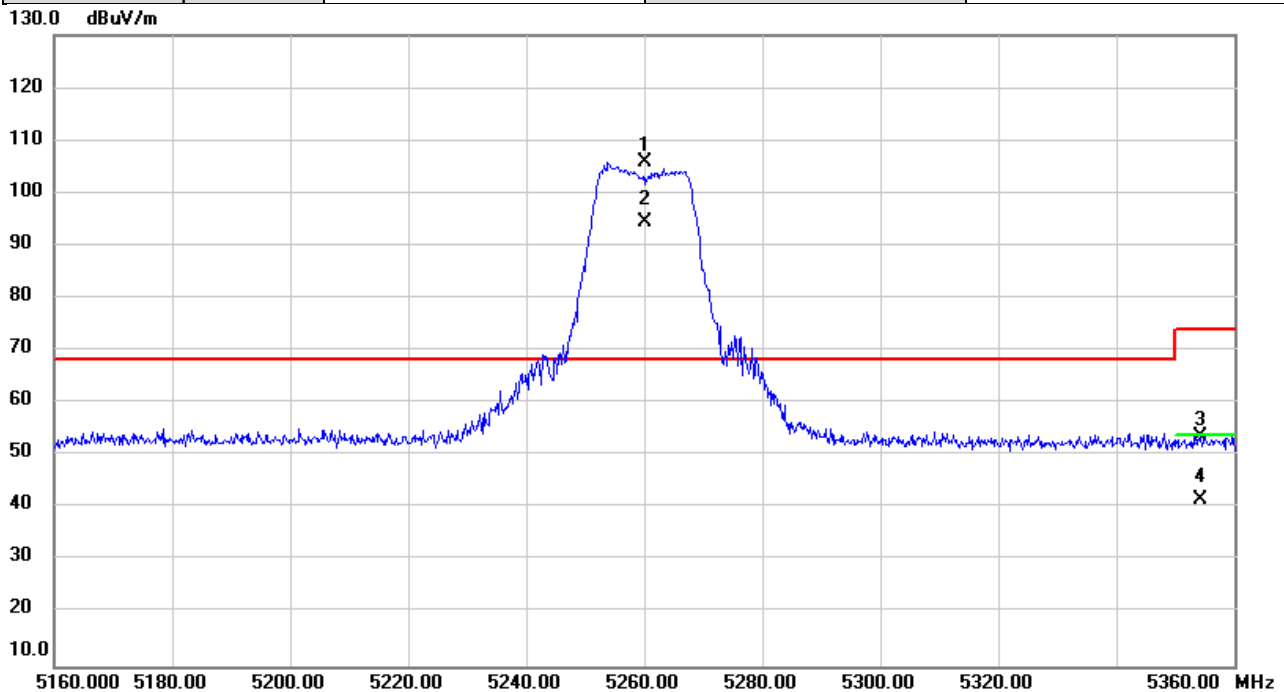
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5147.153	52.86	1.37	54.23	74.00	-19.77	peak	
2		5147.153	40.80	1.37	42.17	54.00	-11.83	AVG	
3	*	5240.000	103.05	1.40	104.45	68.20	36.25	peak	No Limit
4	X	5240.000	92.78	1.40	94.18	68.20	25.98	AVG	No Limit

REMARKS:

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

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

Test Mode	IEEE 802.11a	Test Date	2022/12/22
Test Frequency	5260MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



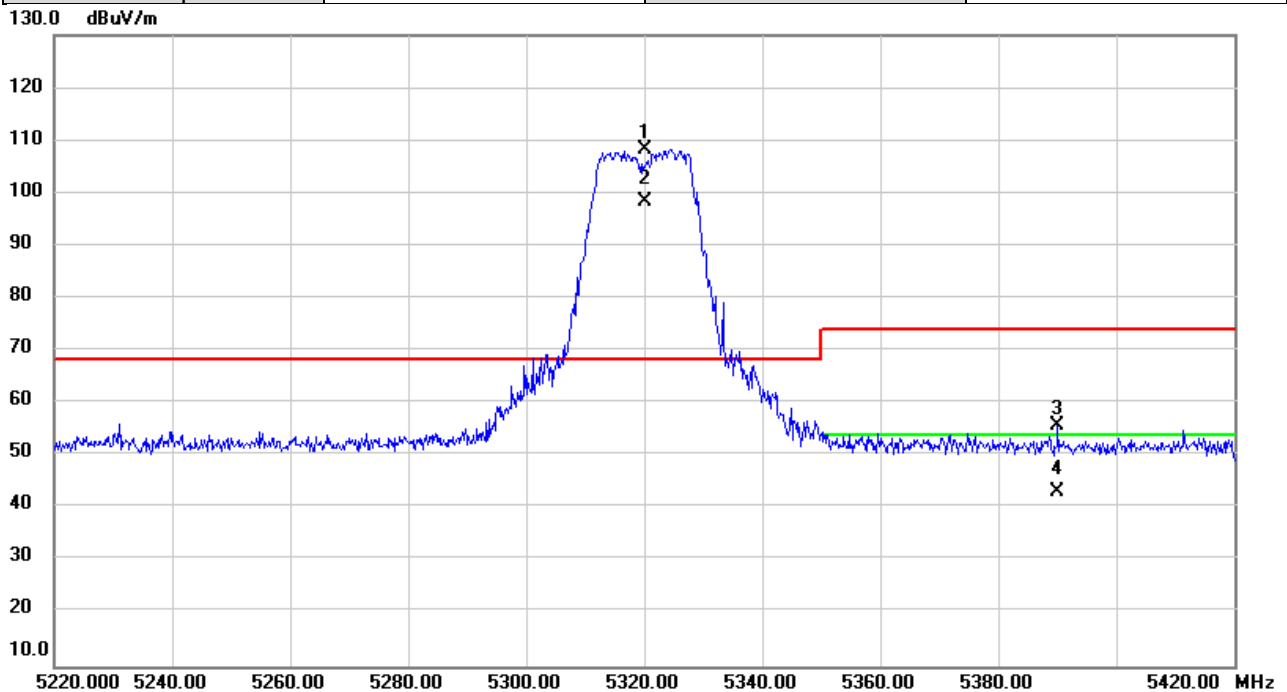
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5260.000	104.44	1.41	105.85	68.20	37.65	peak	No Limit
2	X	5260.000	92.93	1.41	94.34	68.20	26.14	AVG	No Limit
3		5354.240	52.33	1.44	53.77	74.00	-20.23	peak	
4		5354.240	40.28	1.44	41.72	54.00	-12.28	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11a	Test Date	2022/12/22
Test Frequency	5320MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



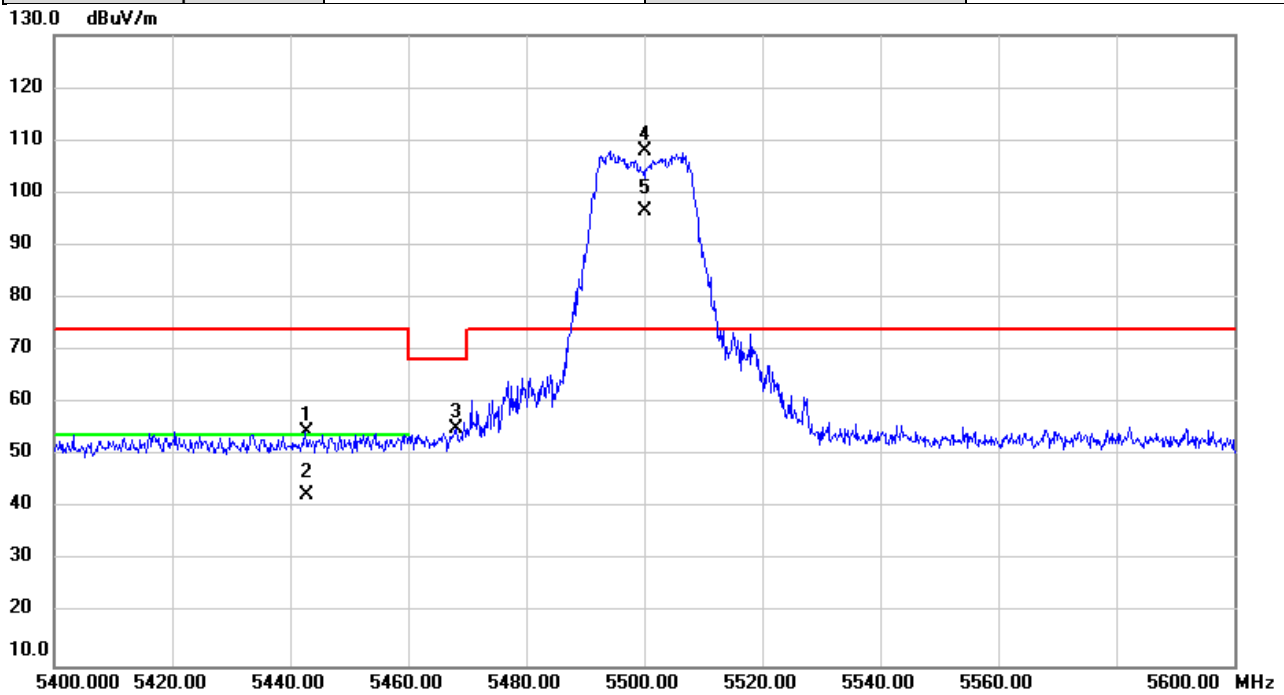
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5320.000	106.75	1.42	108.17	68.20	39.97	peak	No Limit
2	X	5320.000	96.81	1.42	98.23	68.20	30.03	AVG	No Limit
3		5390.080	54.45	1.45	55.90	74.00	-18.10	peak	
4		5390.080	41.58	1.45	43.03	54.00	-10.97	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11a	Test Date	2022/12/22
Test Frequency	5500MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



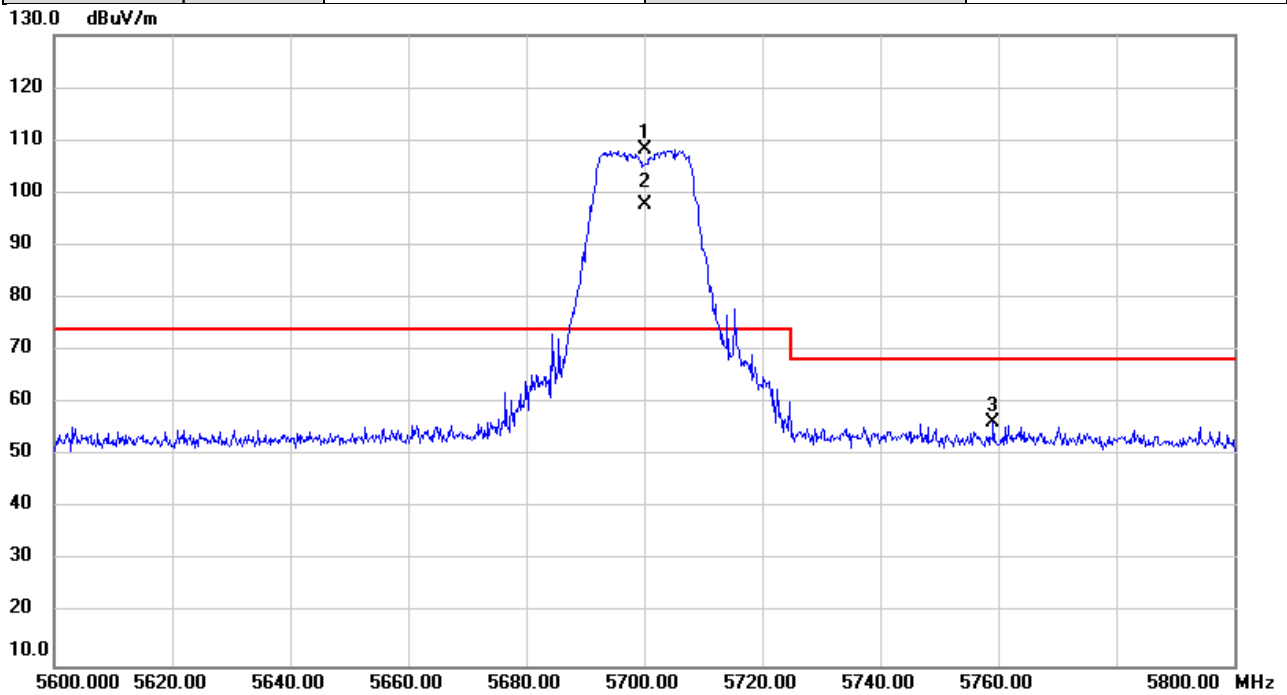
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5442.667	53.02	1.47	54.49	74.00	-19.51	peak	
2		5442.667	41.09	1.47	42.56	54.00	-11.44	AVG	
3		5468.040	53.80	1.48	55.28	68.20	-12.92	peak	
4	*	5500.000	106.39	1.49	107.88	74.00	33.88	peak	No Limit
5	X	5500.000	95.02	1.49	96.51	74.00	22.51	AVG	No Limit

REMARKS:

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

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

Test Mode	IEEE 802.11a	Test Date	2022/12/22
Test Frequency	5700MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

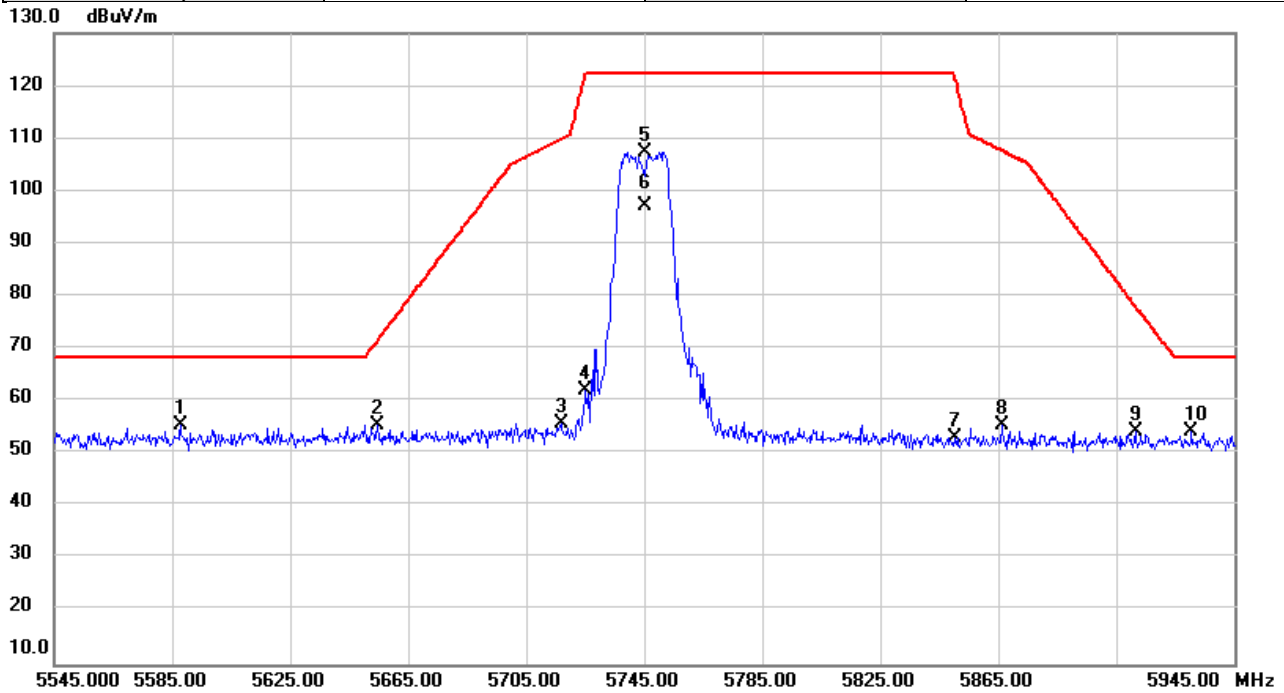


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5700.000	106.48	1.89	108.37	74.00	34.37	peak	No Limit
2	X	5700.000	95.80	1.89	97.69	74.00	23.69	AVG	No Limit
3		5759.167	54.41	2.02	56.43	68.20	-11.77	peak	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/22
Test Frequency	5745MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

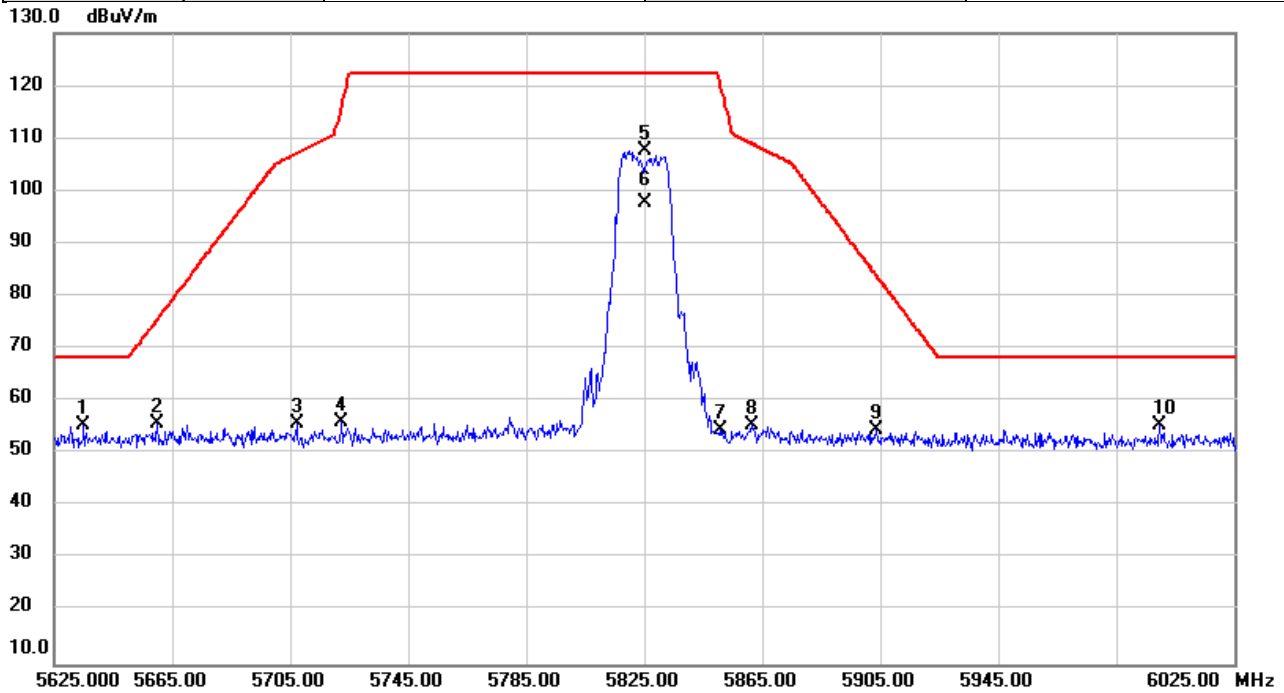


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5588.160	53.68	1.66	55.34	68.20	-12.86	peak	
2		5654.373	53.79	1.80	55.59	71.45	-15.86	peak	
3		5716.800	53.89	1.92	55.81	109.91	-54.10	peak	
4		5725.027	60.08	1.95	62.03	122.20	-60.17	peak	
5		5745.000	105.44	1.98	107.42	122.20	-14.78	peak	No Limit
6		5745.000	95.24	1.98	97.22	122.20	-24.98	AVG	No Limit
7		5850.107	50.77	2.20	52.97	121.96	-68.99	peak	
8		5866.160	53.33	2.23	55.56	107.67	-52.11	peak	
9		5911.720	52.00	2.33	54.33	78.00	-23.67	peak	
10		5930.520	51.83	2.36	54.19	68.20	-14.01	peak	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5825MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

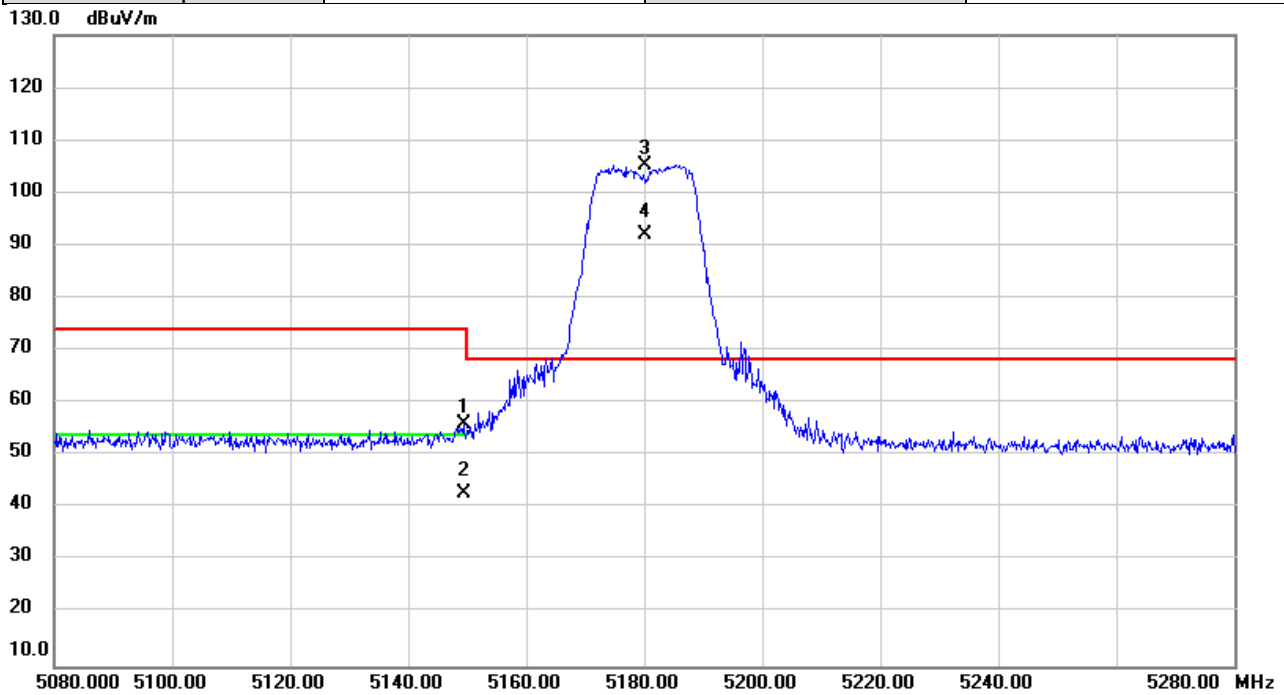


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5635.107	53.56	1.76	55.32	68.20	-12.88	peak	
2		5659.880	53.81	1.81	55.62	75.54	-19.92	peak	
3		5707.253	53.93	1.90	55.83	107.23	-51.40	peak	
4		5722.227	54.07	1.93	56.00	115.88	-59.88	peak	
5		5825.000	105.44	2.16	107.60	122.20	-14.60	peak	No Limit
6		5825.000	95.61	2.16	97.77	122.20	-24.43	AVG	No Limit
7		5850.827	52.25	2.20	54.45	120.31	-65.86	peak	
8		5861.347	53.37	2.23	55.60	109.02	-53.42	peak	
9		5903.720	52.23	2.31	54.54	83.91	-29.37	peak	
10	*	5999.707	53.10	2.50	55.60	68.20	-12.60	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5180MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



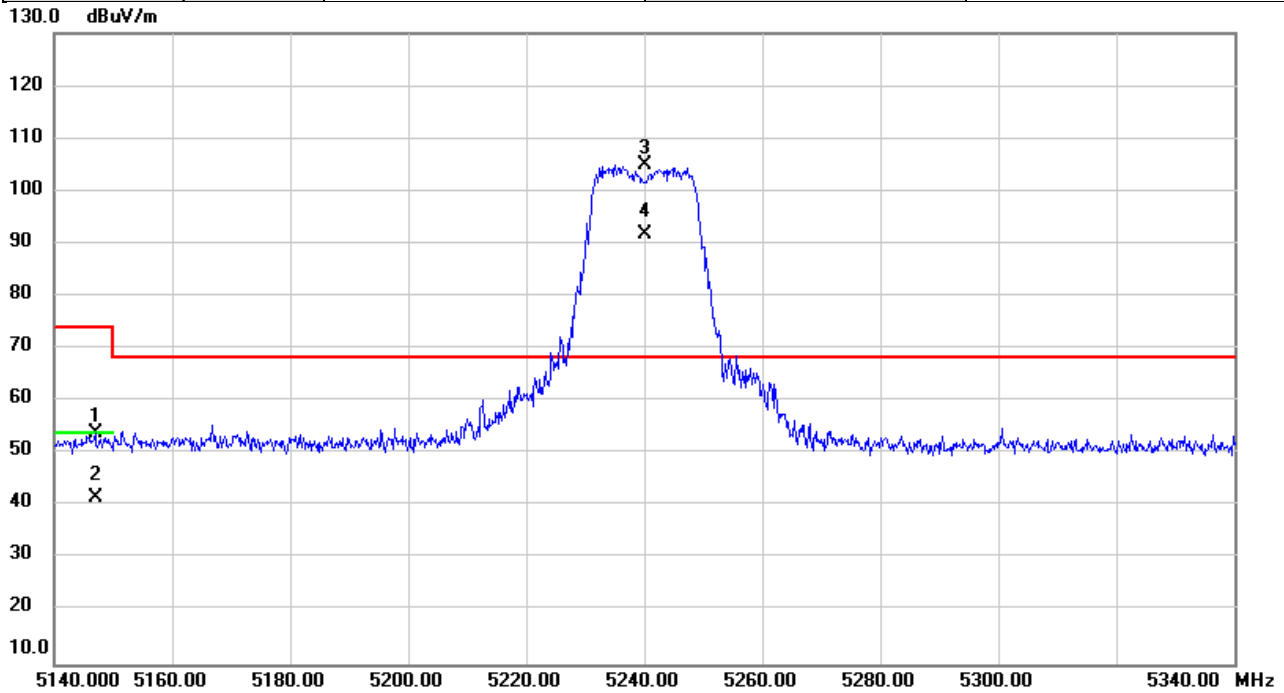
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5149.387	54.70	1.38	56.08	74.00	-17.92	peak	
2		5149.387	41.32	1.38	42.70	54.00	-11.30	AVG	
3	*	5180.000	103.93	1.39	105.32	68.20	37.12	peak	No Limit
4	X	5180.000	90.71	1.39	92.10	68.20	23.90	AVG	No Limit

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5240MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



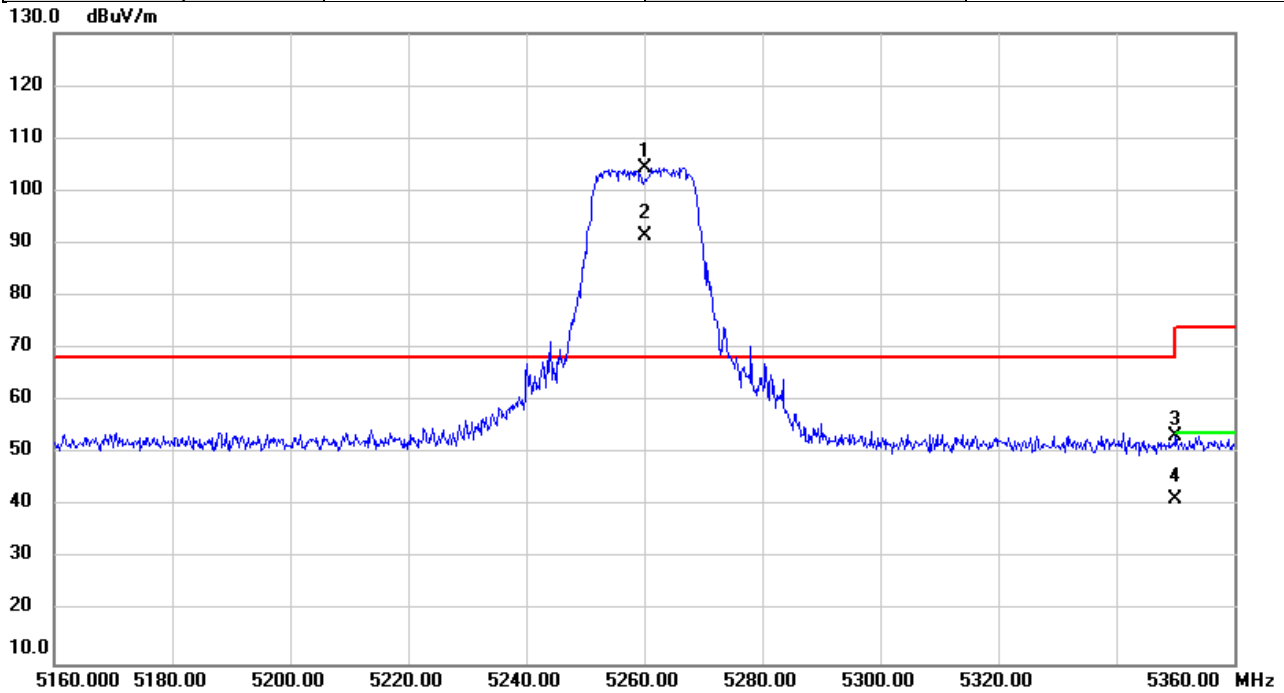
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5146.953	52.45	1.37	53.82	74.00	-20.18	peak	
2		5146.953	40.30	1.37	41.67	54.00	-12.33	AVG	
3	*	5240.000	103.41	1.40	104.81	68.20	36.61	peak	No Limit
4	X	5240.000	90.24	1.40	91.64	68.20	23.44	AVG	No Limit

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5260MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



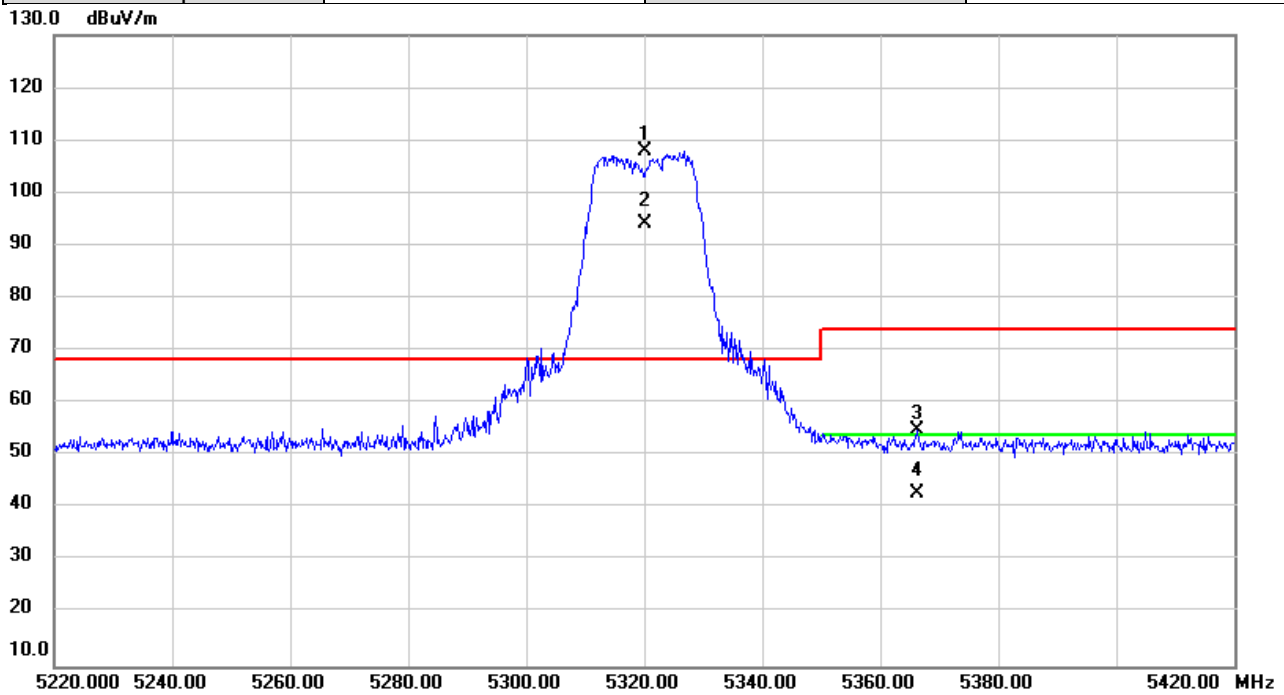
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5260.000	103.05	1.41	104.46	68.20	36.26	peak	No Limit
2	X	5260.000	89.93	1.41	91.34	68.20	23.14	AVG	No Limit
3		5350.027	51.98	1.43	53.41	74.00	-20.59	peak	
4		5350.027	39.80	1.43	41.23	54.00	-12.77	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5320MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



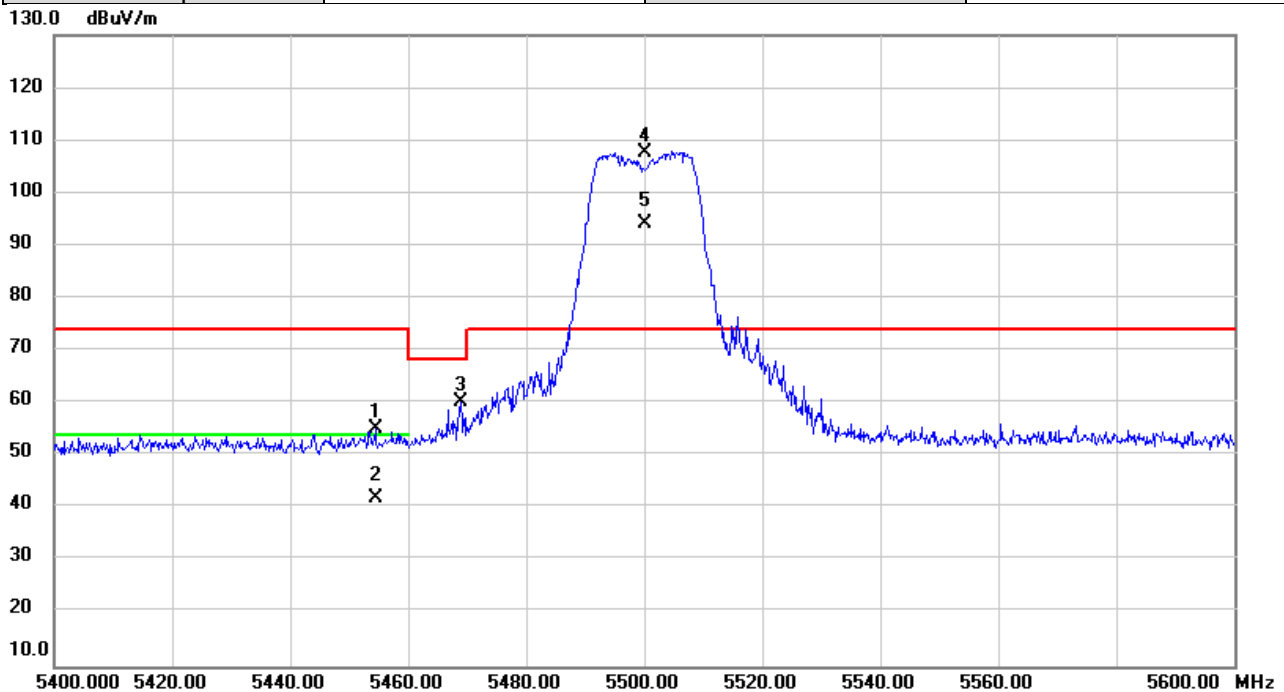
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5320.000	106.55	1.42	107.97	68.20	39.77	peak	No Limit
2	X	5320.000	92.66	1.42	94.08	68.20	25.88	AVG	No Limit
3		5366.400	53.43	1.44	54.87	74.00	-19.13	peak	
4		5366.400	41.36	1.44	42.80	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	2022/12/23
Test Frequency	5500MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



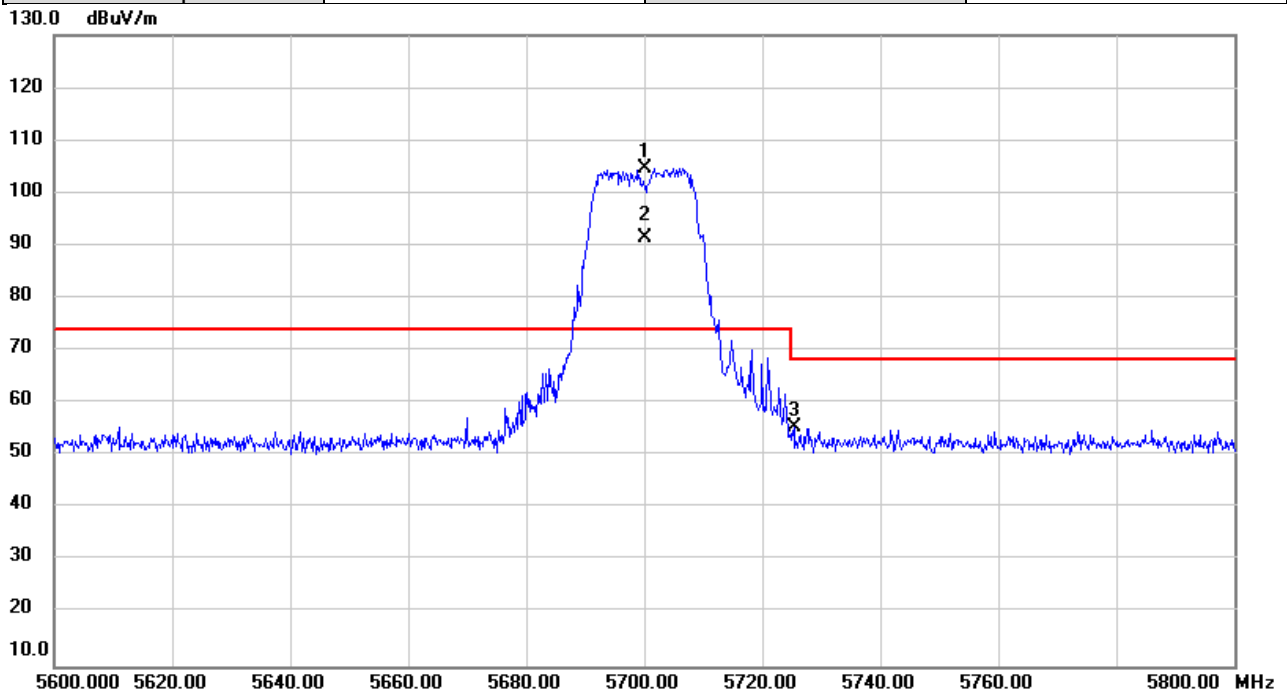
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5454.460	53.67	1.47	55.14	74.00	-18.86	peak	
2		5454.460	40.61	1.47	42.08	54.00	-11.92	AVG	
3		5468.840	58.82	1.48	60.30	68.20	-7.90	peak	
4	*	5500.000	106.31	1.49	107.80	74.00	33.80	peak	No Limit
5	X	5500.000	92.72	1.49	94.21	74.00	20.21	AVG	No Limit

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5700MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

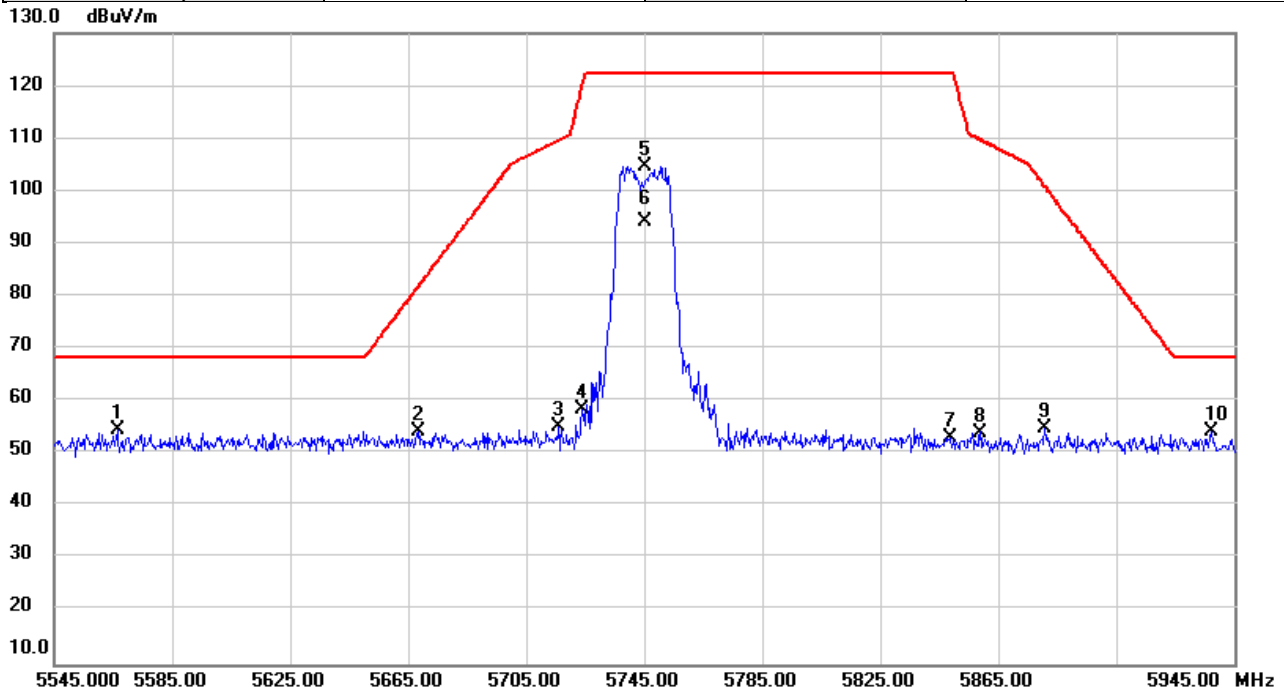


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5700.000	102.78	1.89	104.67	74.00	30.67	peak	No Limit
2	X	5700.000	89.58	1.89	91.47	74.00	17.47	AVG	No Limit
3		5725.360	53.44	1.95	55.39	68.20	-12.81	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5745MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

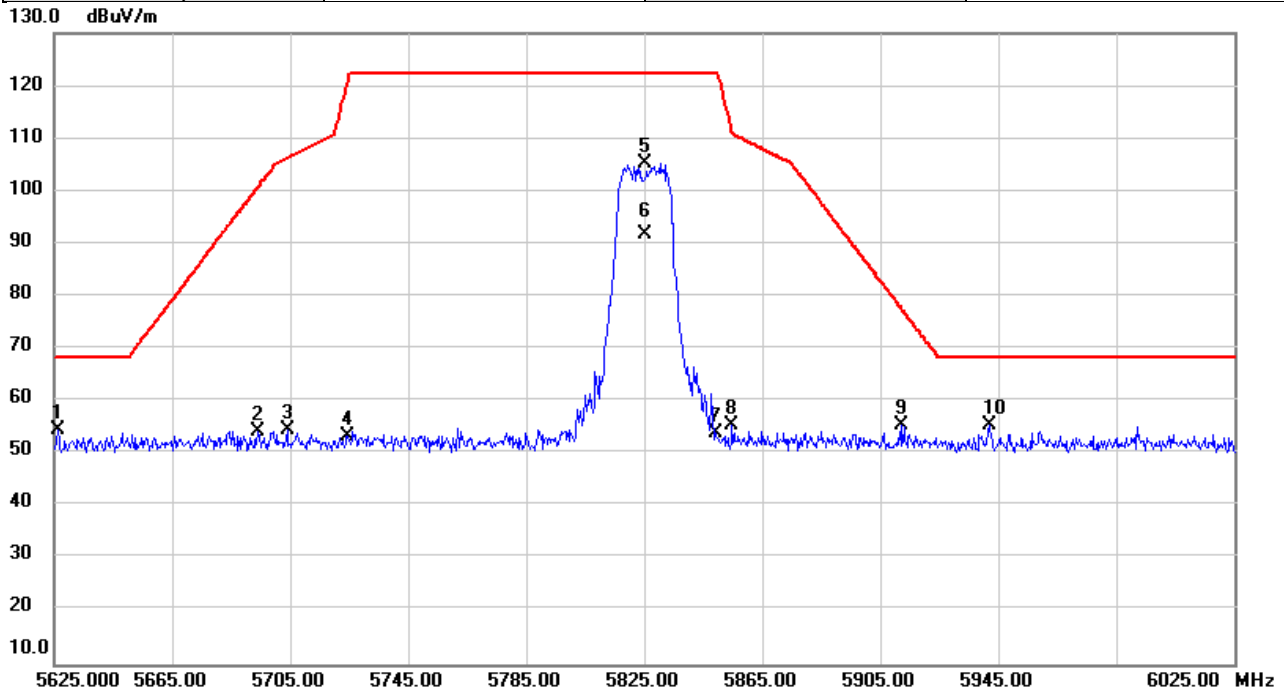


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5566.387	52.86	1.62	54.48	68.20	-13.72	peak	
2		5668.413	52.39	1.83	54.22	81.86	-27.64	peak	
3		5715.840	53.28	1.92	55.20	109.64	-54.44	peak	
4		5724.200	56.60	1.93	58.53	120.38	-61.85	peak	
5		5745.000	102.66	1.98	104.64	122.20	-17.56	peak	No Limit
6		5745.000	92.32	1.98	94.30	122.20	-27.90	AVG	No Limit
7		5848.533	50.99	2.20	53.19	122.20	-69.01	peak	
8		5858.667	51.88	2.22	54.10	109.77	-55.67	peak	
9		5880.947	52.54	2.26	54.80	100.78	-45.98	peak	
10		5937.200	51.96	2.37	54.33	68.20	-13.87	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5825MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

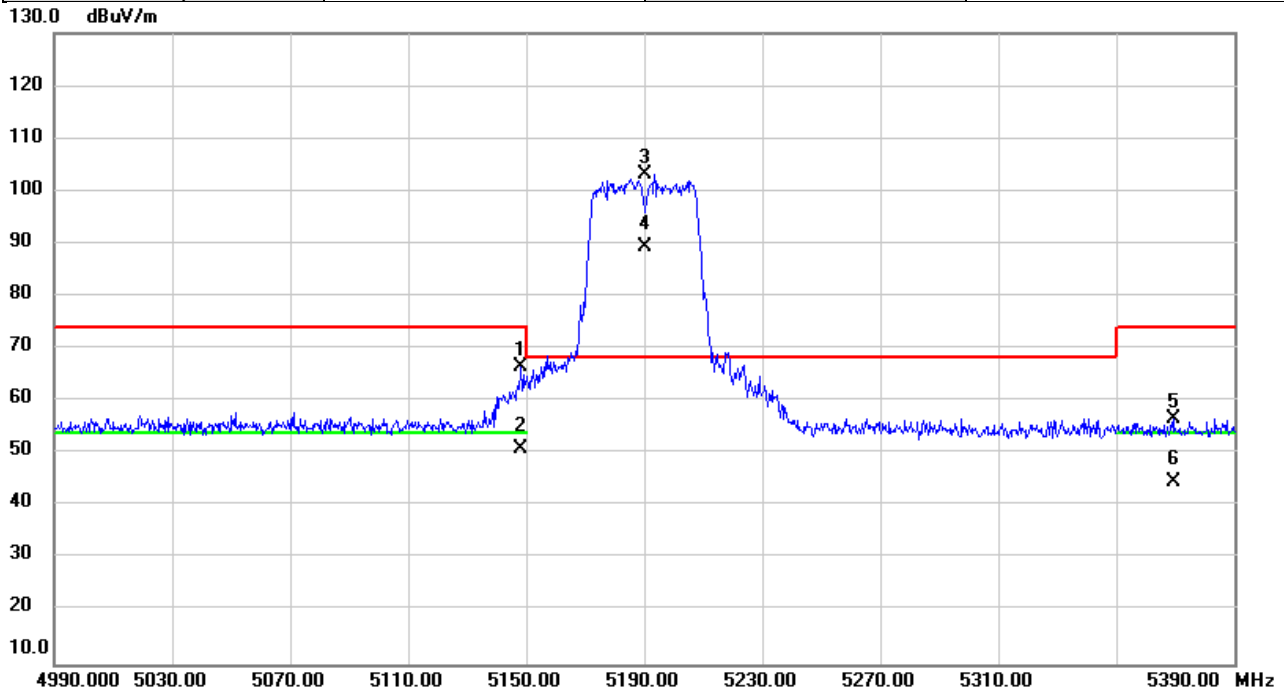


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5626.467	52.69	1.75	54.44	68.20	-13.76	peak	
2		5693.960	52.35	1.88	54.23	100.75	-46.52	peak	
3		5704.093	52.70	1.90	54.60	106.35	-51.75	peak	
4		5724.293	51.49	1.93	53.42	120.59	-67.17	peak	
5		5825.000	103.03	2.16	105.19	122.20	-17.01	peak	No Limit
6		5825.000	89.50	2.16	91.66	122.20	-30.54	AVG	No Limit
7		5849.387	51.64	2.20	53.84	122.20	-68.36	peak	
8		5854.747	53.24	2.21	55.45	111.38	-55.93	peak	
9		5911.947	53.13	2.33	55.46	77.83	-22.37	peak	
10	*	5941.960	53.08	2.39	55.47	68.20	-12.73	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/6/26
Test Frequency	5190MHz	Polarization	Vertical
Temp	24°C	Hum.	58%

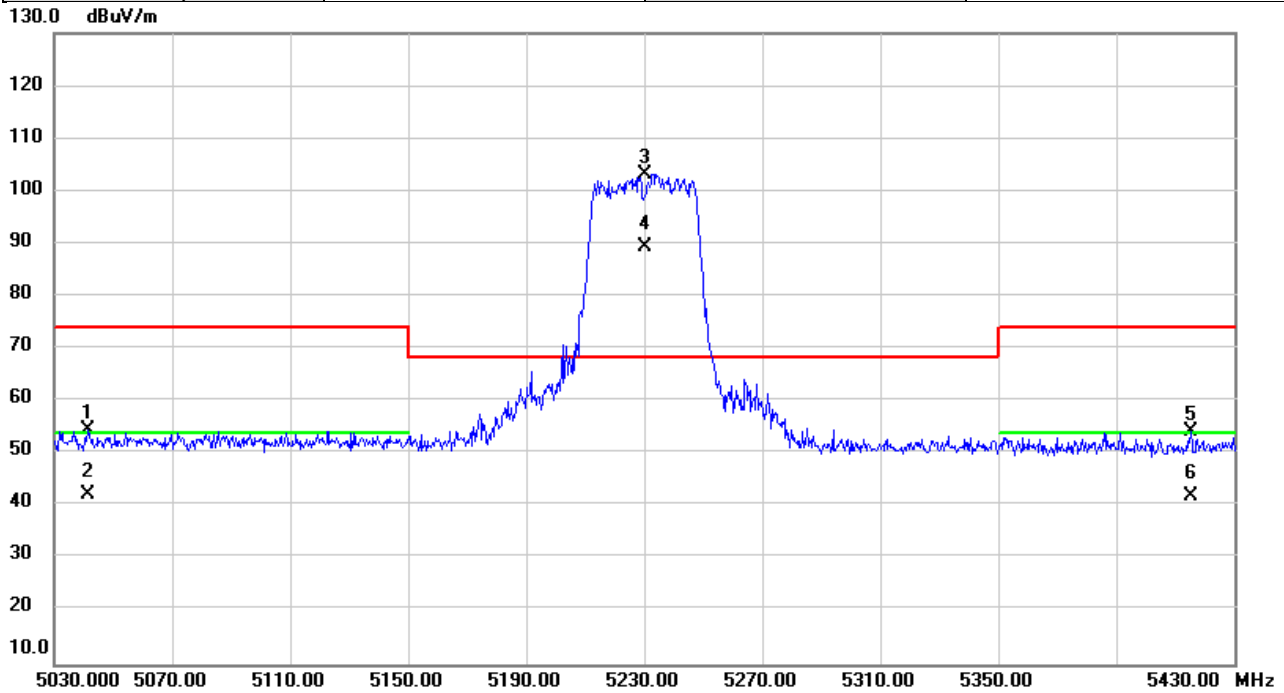


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.013	65.24	1.16	66.40	74.00	-7.60	peak	
2		5148.013	49.89	1.16	51.05	54.00	-2.95	AVG	
3	*	5190.000	101.90	1.18	103.08	68.20	34.88	peak	No Limit
4	X	5190.000	88.08	1.18	89.26	68.20	21.06	AVG	No Limit
5		5369.520	55.35	1.23	56.58	74.00	-17.42	peak	
6		5369.520	43.45	1.23	44.68	54.00	-9.32	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/23
Test Frequency	5230MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

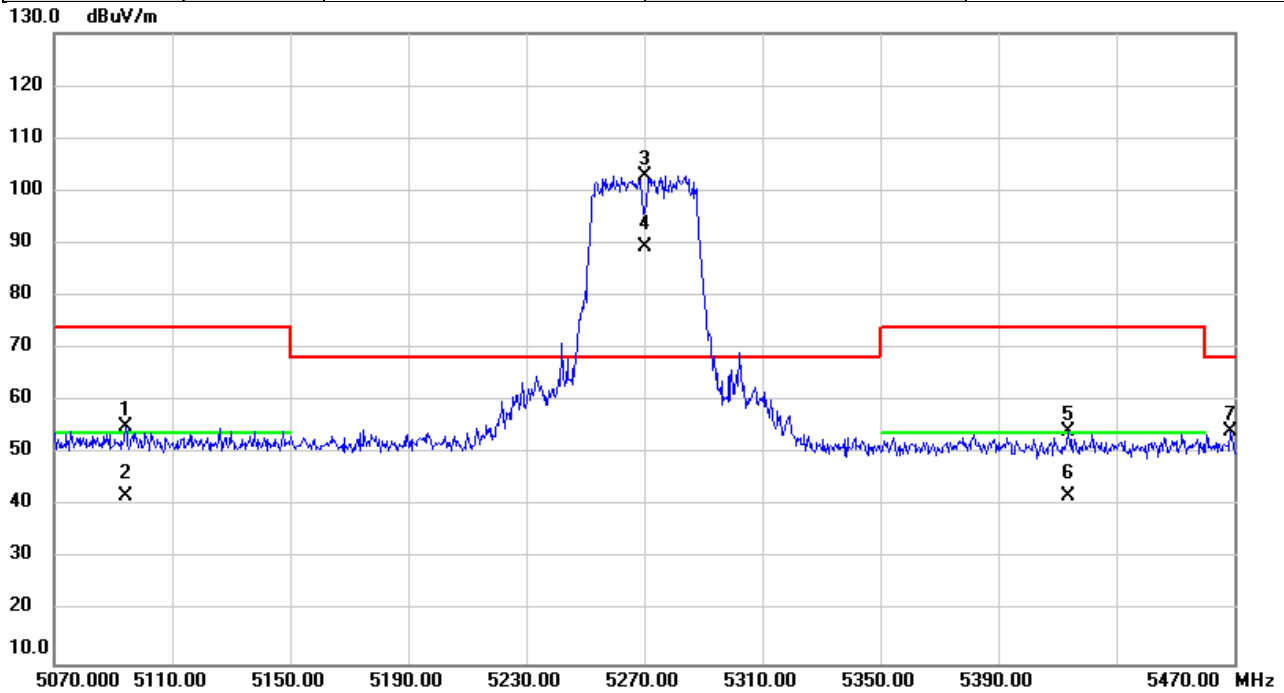


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5041.253	53.21	1.34	54.55	74.00	-19.45	peak	
2		5041.253	40.96	1.34	42.30	54.00	-11.70	AVG	
3	*	5230.000	101.89	1.40	103.29	68.20	35.09	peak	No Limit
4	X	5230.000	87.90	1.40	89.30	68.20	21.10	AVG	No Limit
5		5415.213	52.84	1.47	54.31	74.00	-19.69	peak	
6		5415.213	40.35	1.47	41.82	54.00	-12.18	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/23
Test Frequency	5270MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



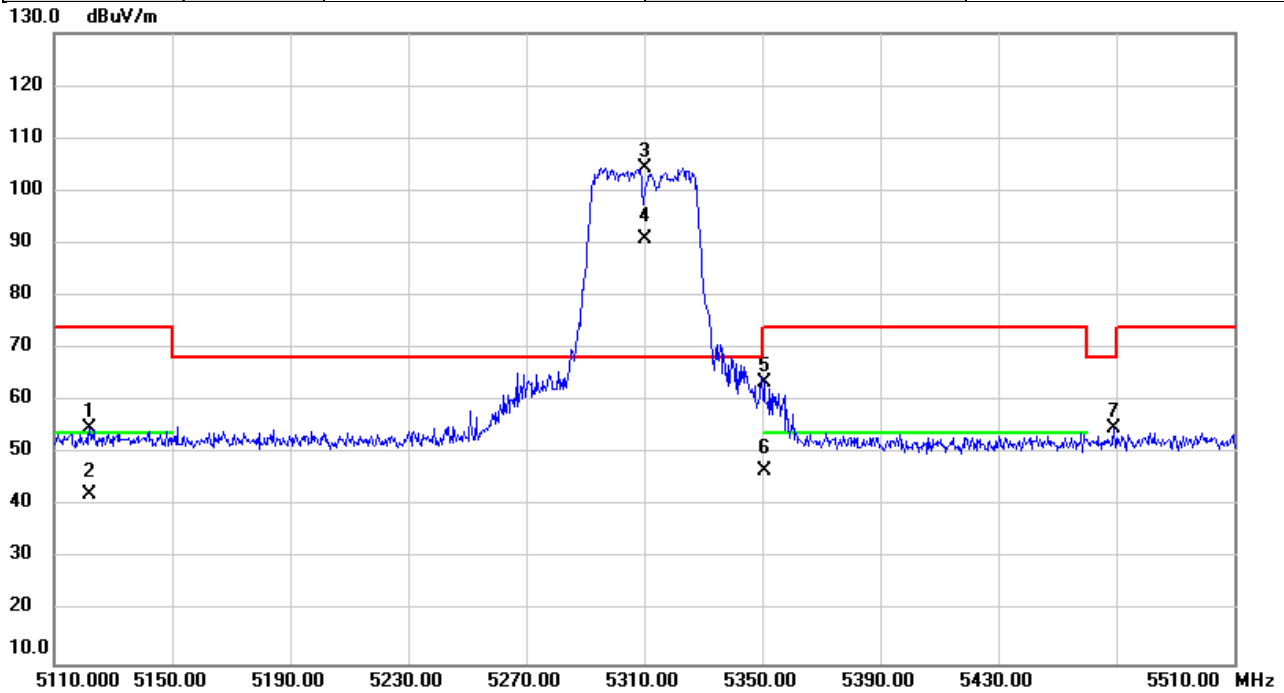
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5094.067	53.78	1.35	55.13	74.00	-18.87	peak	
2		5094.067	40.69	1.35	42.04	54.00	-11.96	AVG	
3	*	5270.000	101.39	1.41	102.80	68.20	34.60	peak	No Limit
4	X	5270.000	88.03	1.41	89.44	68.20	21.24	AVG	No Limit
5		5413.827	52.91	1.46	54.37	74.00	-19.63	peak	
6		5413.827	40.43	1.46	41.89	54.00	-12.11	AVG	
7		5468.680	52.78	1.48	54.26	68.20	-13.94	peak	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/23
Test Frequency	5310MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



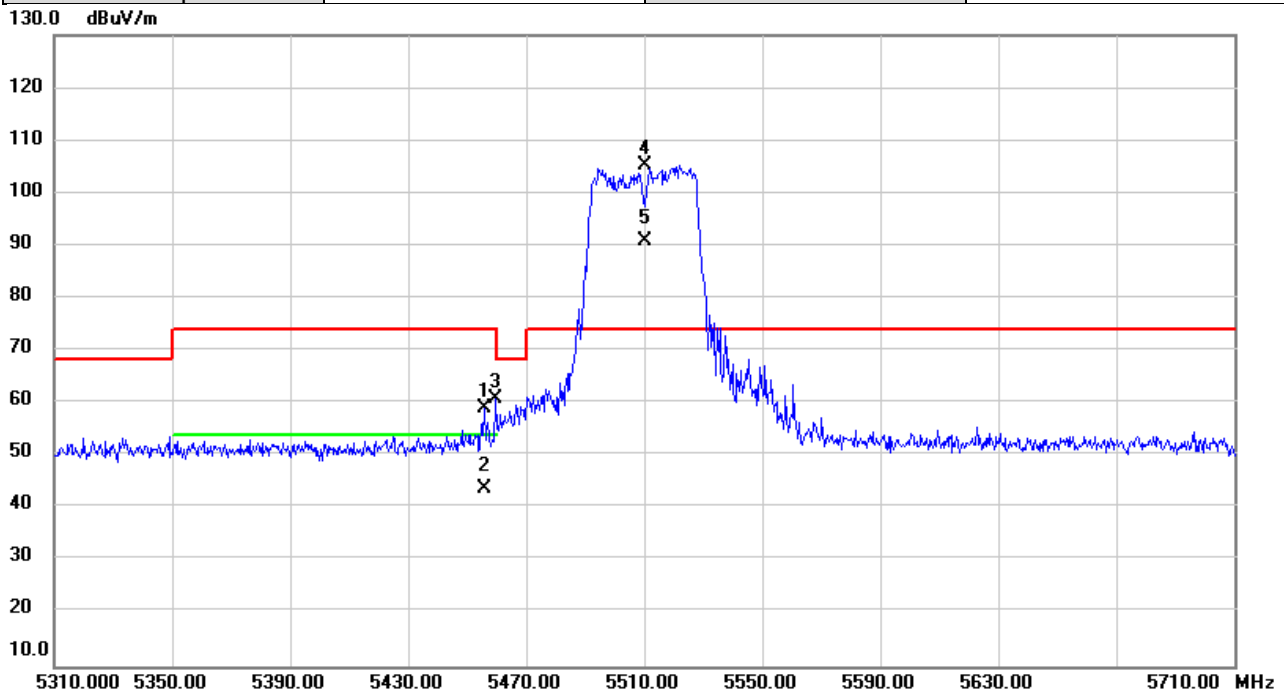
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5122.240	53.39	1.36	54.75	74.00	-19.25	peak	
2		5122.240	40.94	1.36	42.30	54.00	-11.70	AVG	
3	*	5310.000	103.01	1.43	104.44	68.20	36.24	peak	No Limit
4	X	5310.000	89.51	1.43	90.94	68.20	22.74	AVG	No Limit
5		5350.613	62.22	1.43	63.65	74.00	-10.35	peak	
6		5350.613	45.32	1.43	46.75	54.00	-7.25	AVG	
7		5469.347	53.24	1.48	54.72	68.20	-13.48	peak	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/23
Test Frequency	5510MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



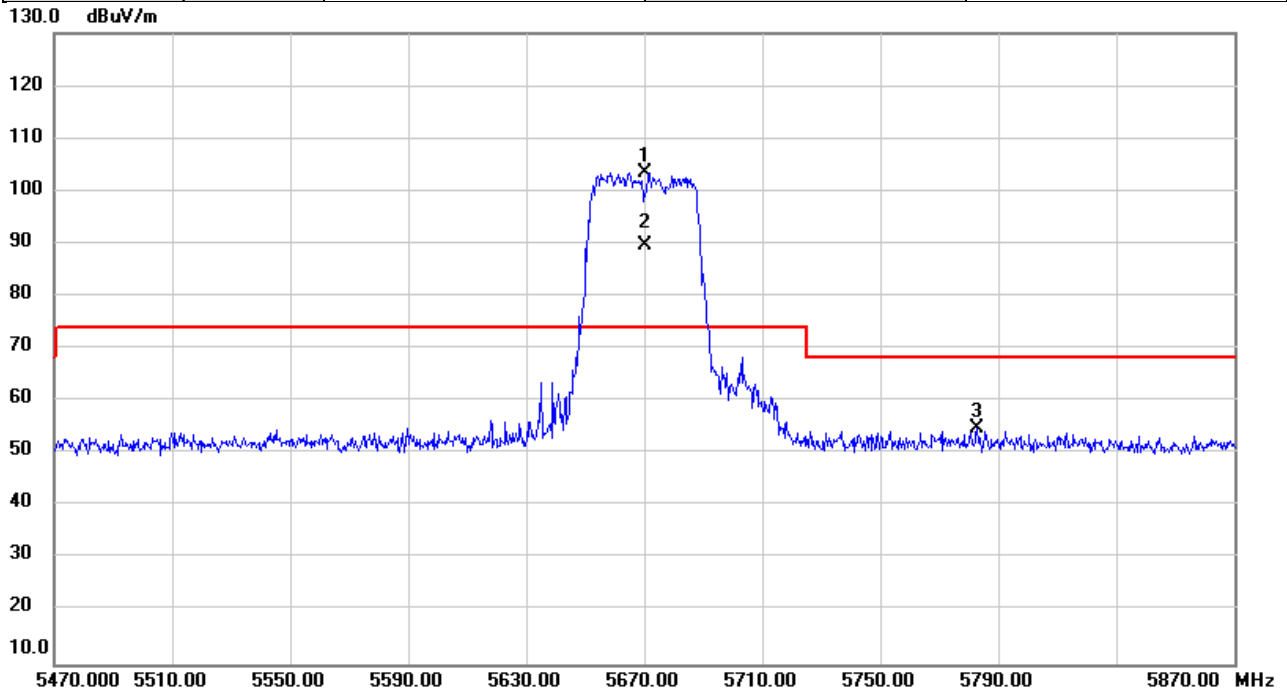
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5455.773	57.53	1.47	59.00	74.00	-15.00	peak	
2		5455.773	42.32	1.47	43.79	54.00	-10.21	AVG	
3		5459.600	59.31	1.47	60.78	74.00	-13.22	peak	
4	*	5510.000	103.72	1.51	105.23	74.00	31.23	peak	No Limit
5	X	5510.000	89.44	1.51	90.95	74.00	16.95	AVG	No Limit

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/23
Test Frequency	5670MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

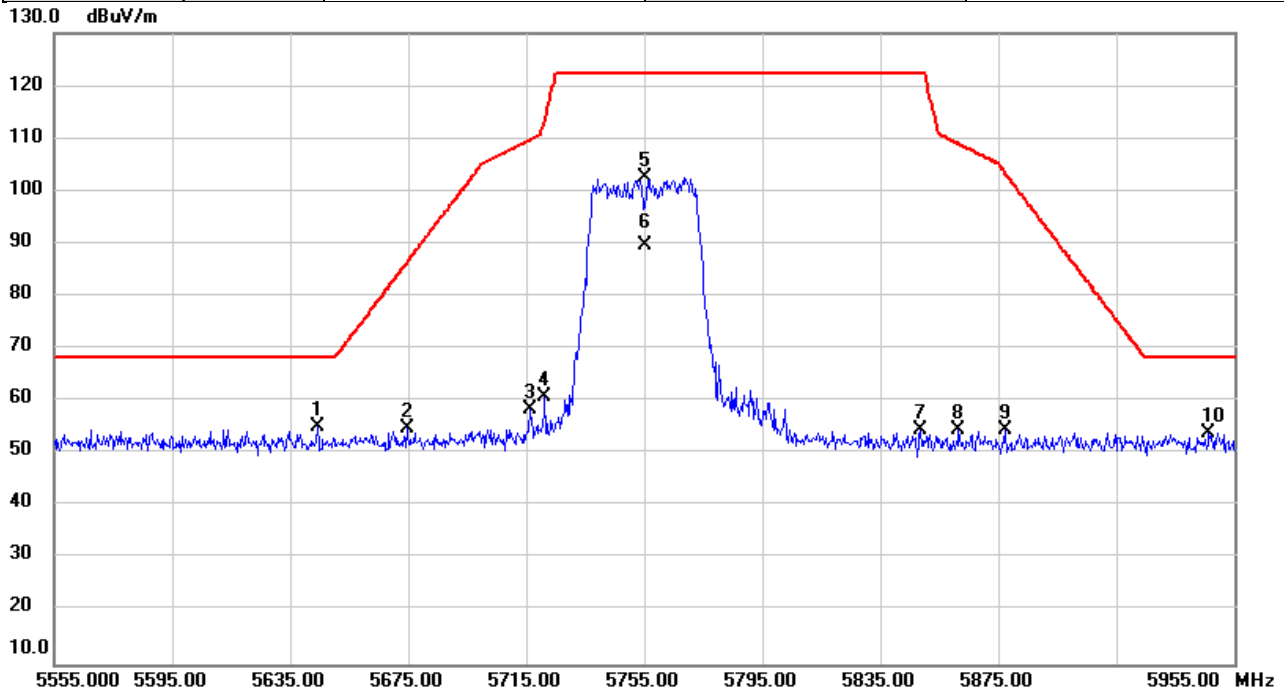


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5670.000	101.51	1.83	103.34	74.00	29.34	peak	No Limit
2	X	5670.000	87.95	1.83	89.78	74.00	15.78	AVG	No Limit
3		5782.880	52.81	2.07	54.88	68.20	-13.32	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/23
Test Frequency	5755MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

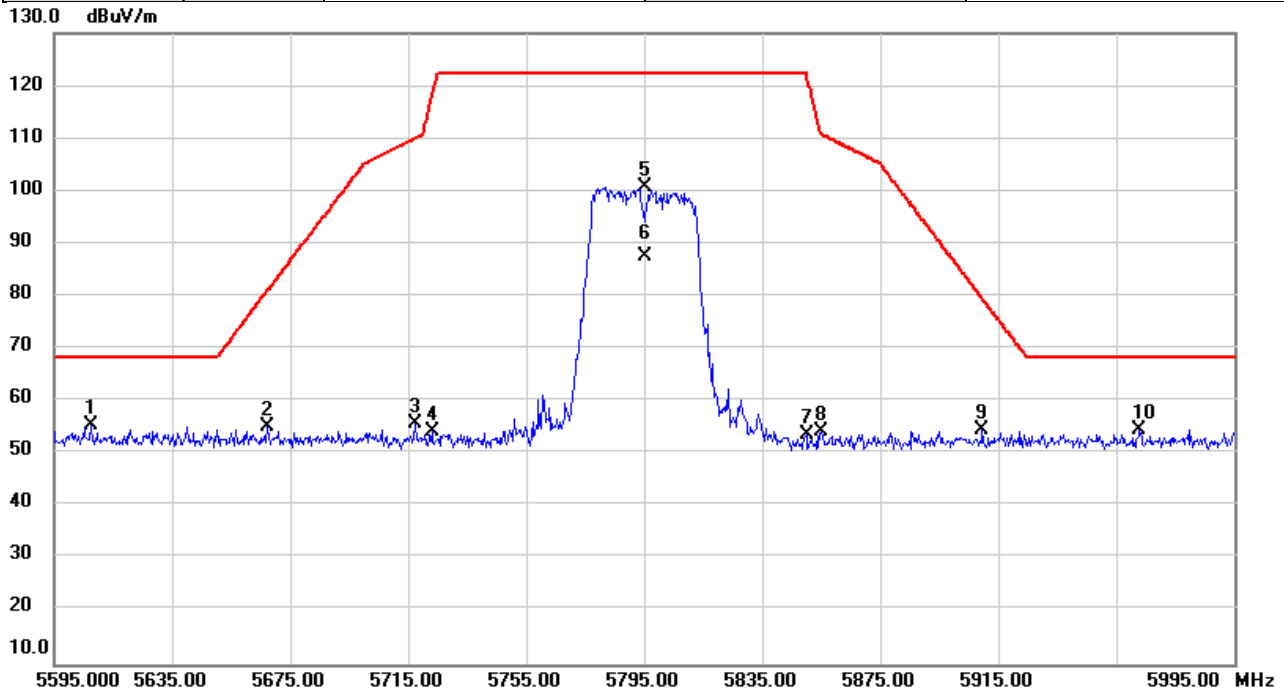


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5644.440	53.28	1.78	55.06	68.20	-13.14	peak	
2		5674.533	53.00	1.83	54.83	86.40	-31.57	peak	
3		5716.187	56.66	1.92	58.58	109.73	-51.15	peak	
4		5721.040	58.85	1.93	60.78	113.17	-52.39	peak	
5		5755.000	100.57	2.01	102.58	122.20	-19.62	peak	No Limit
6		5755.000	87.55	2.01	89.56	122.20	-32.64	AVG	No Limit
7		5848.680	52.29	2.20	54.49	122.20	-67.71	peak	
8		5861.587	52.37	2.23	54.60	108.95	-54.35	peak	
9		5877.333	52.34	2.26	54.60	103.47	-48.87	peak	
10		5946.293	51.63	2.39	54.02	68.20	-14.18	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/23
Test Frequency	5795MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

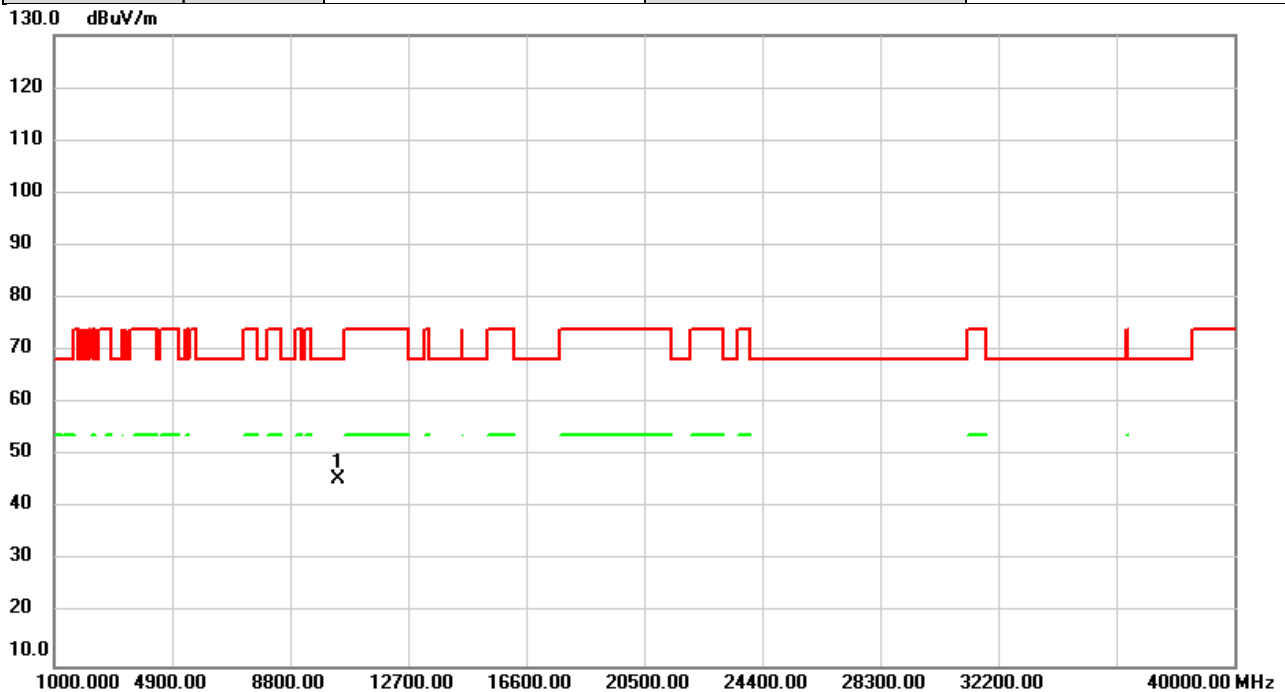


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5607.693	53.74	1.70	55.44	68.20	-12.76	peak	
2		5667.387	53.19	1.82	55.01	81.10	-26.09	peak	
3		5717.400	53.82	1.92	55.74	110.07	-54.33	peak	
4		5723.307	52.36	1.93	54.29	118.34	-64.05	peak	
5		5795.000	98.72	2.09	100.81	122.20	-21.39	peak	No Limit
6		5795.000	85.39	2.09	87.48	122.20	-34.72	AVG	No Limit
7		5850.013	51.35	2.20	53.55	122.17	-68.62	peak	
8		5855.253	52.16	2.21	54.37	110.73	-56.36	peak	
9		5909.533	52.16	2.32	54.48	79.61	-25.13	peak	
10		5962.653	52.24	2.43	54.67	68.20	-13.53	peak	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5180MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

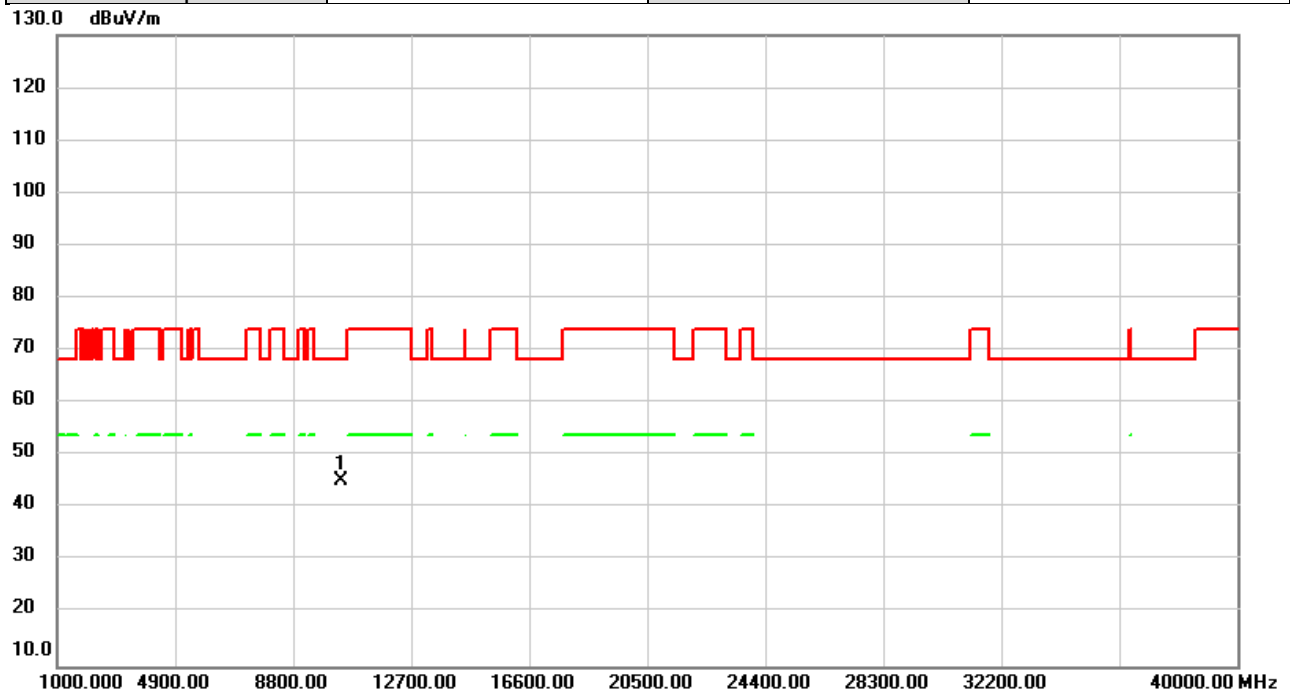


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10360.00	39.72	5.82	45.54	68.20	-22.66	peak	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5180MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

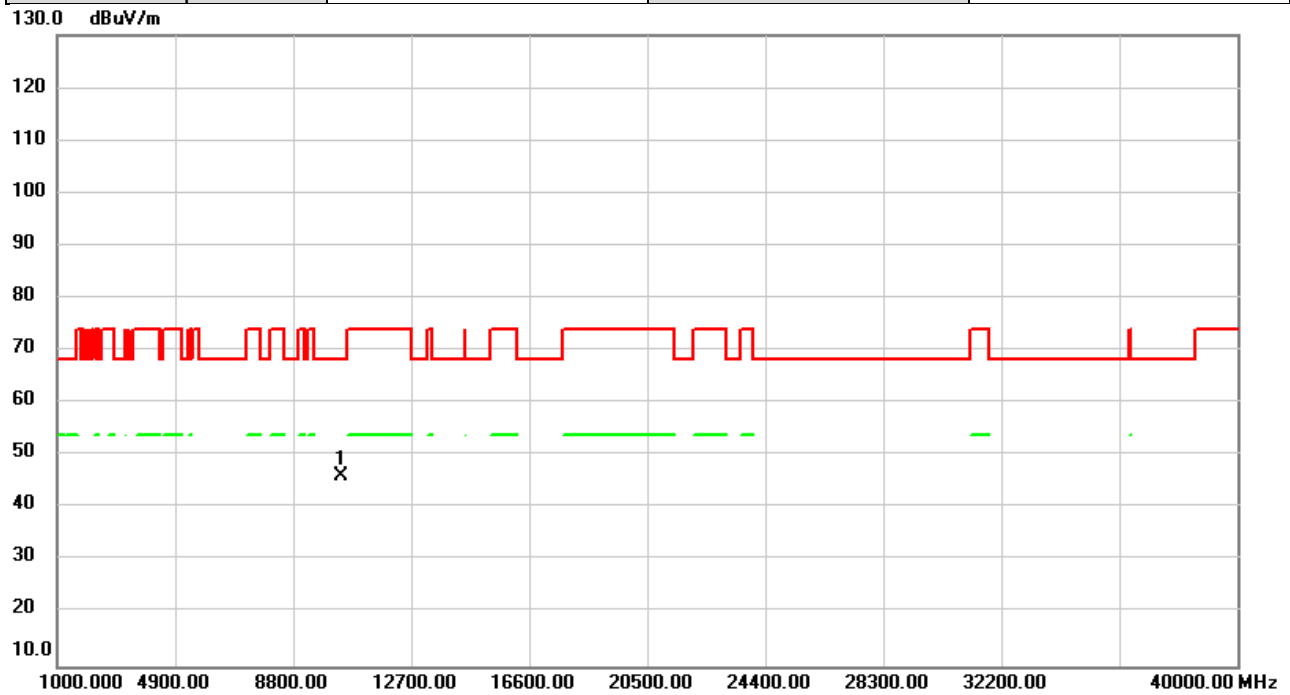


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	39.52	5.82	45.34	68.20	-22.86	peak	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5200MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

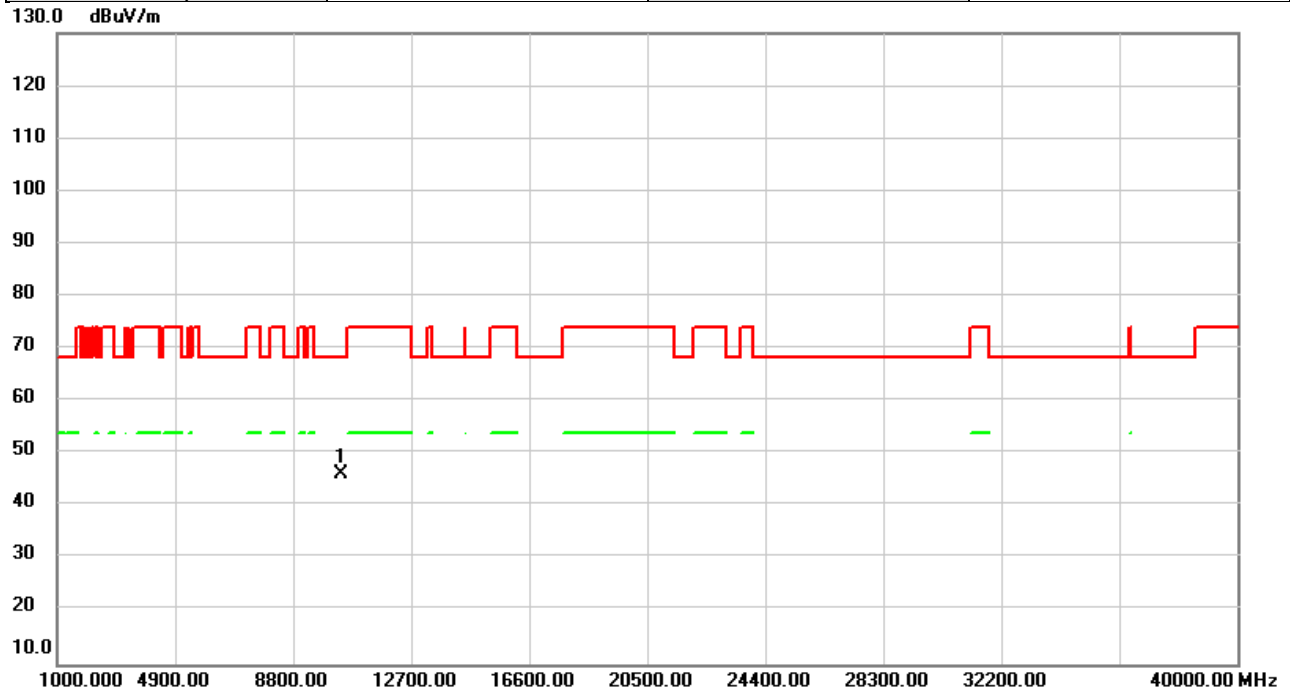


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	40.22	5.80	46.02	68.20	-22.18	peak	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5200MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

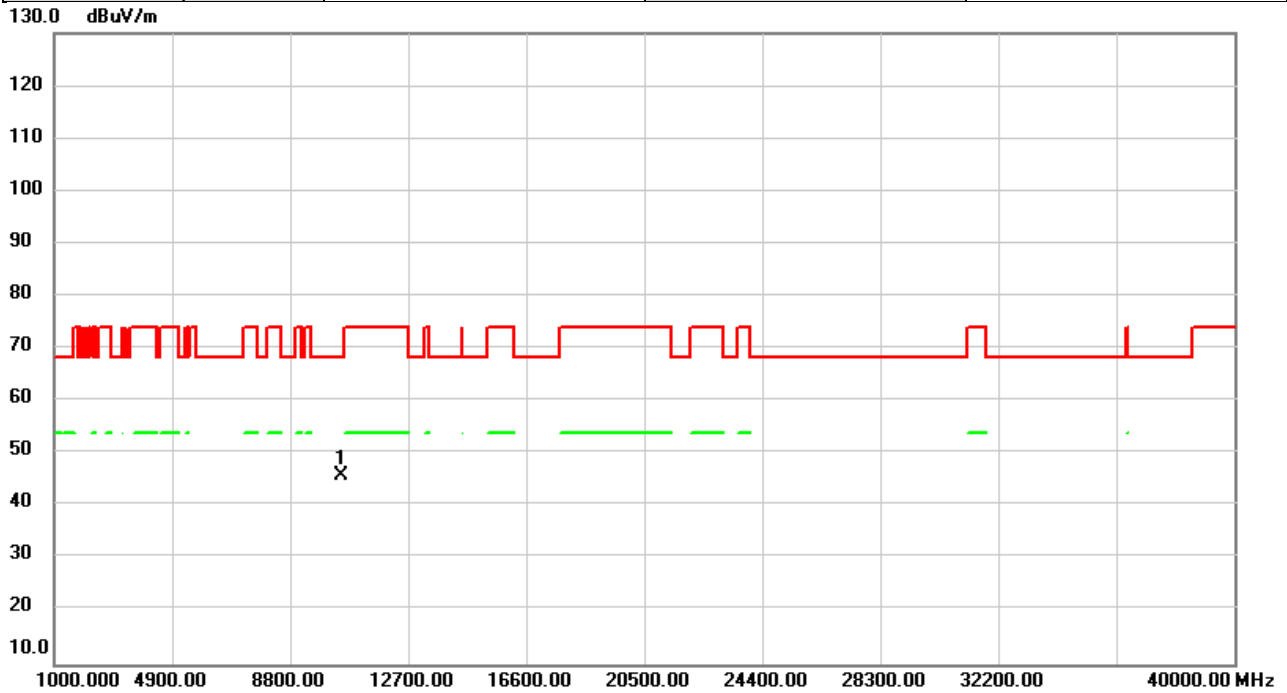


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10400.00	40.32	5.80	46.12	68.20	-22.08	peak	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5240MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

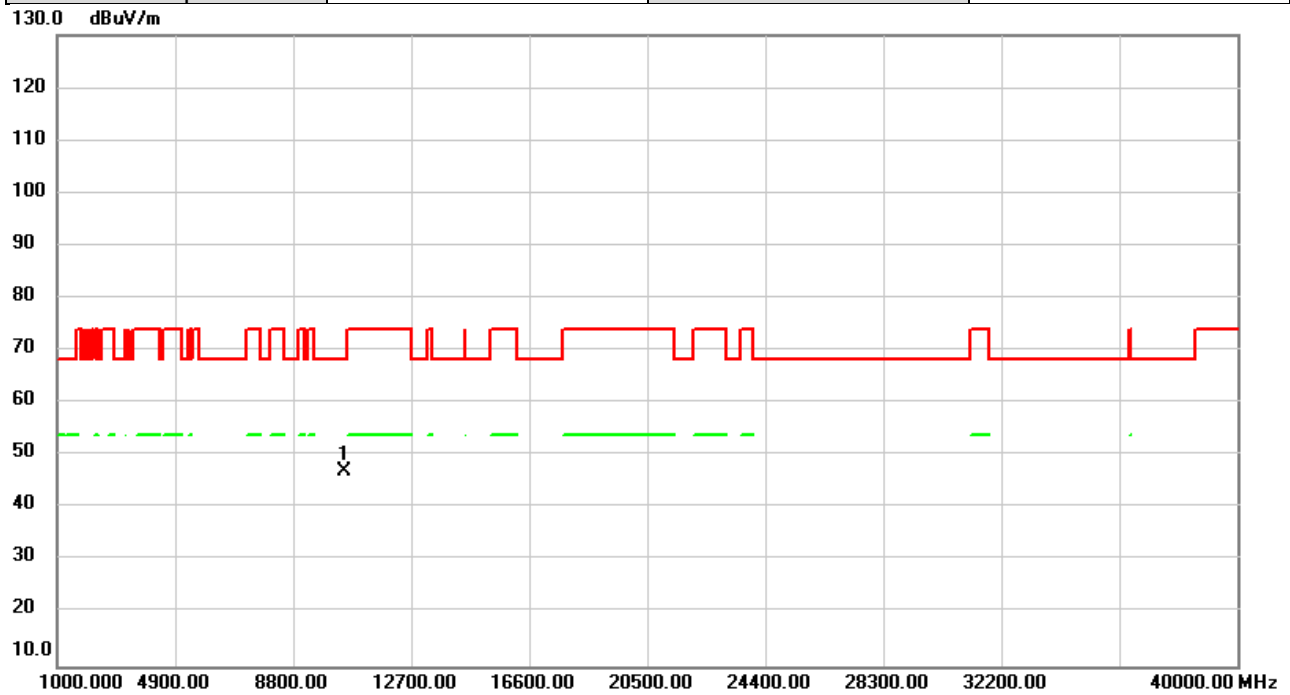


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	40.07	5.75	45.82	68.20	-22.38	peak	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5240MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%



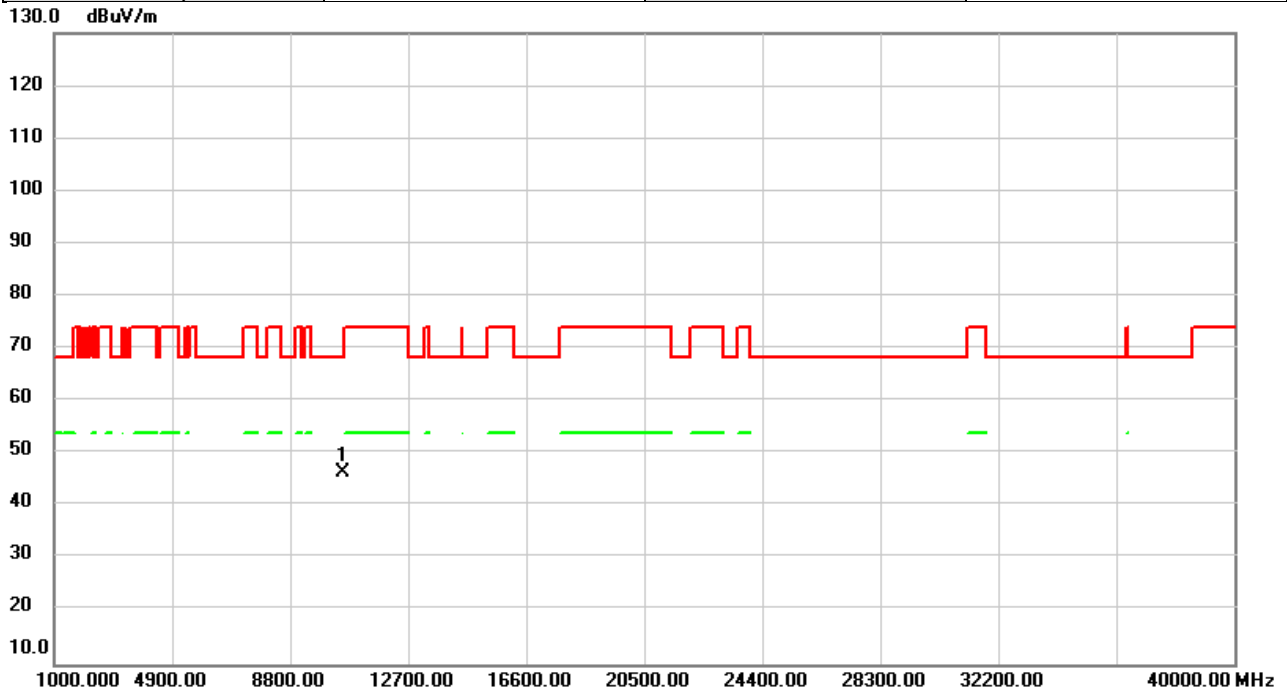
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	41.19	5.75	46.94	68.20	-21.26	peak	

REMARKS:

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

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5260MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

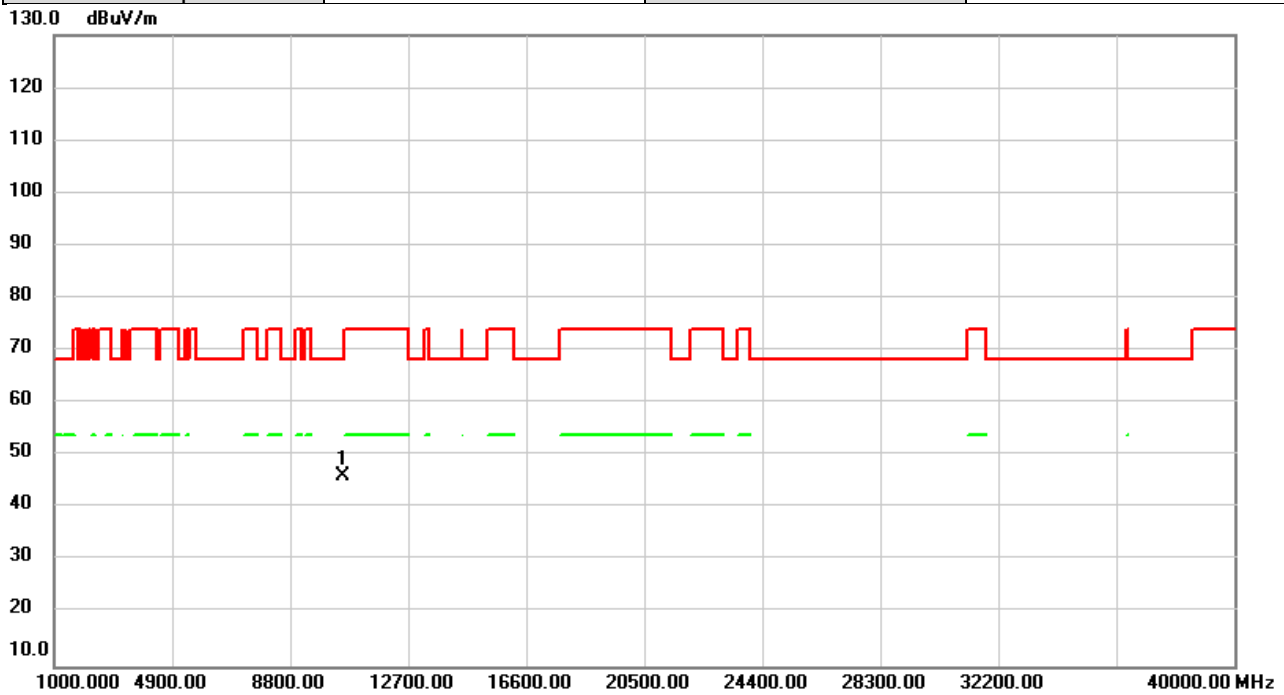


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	40.76	5.72	46.48	68.20	-21.72	peak	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5260MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

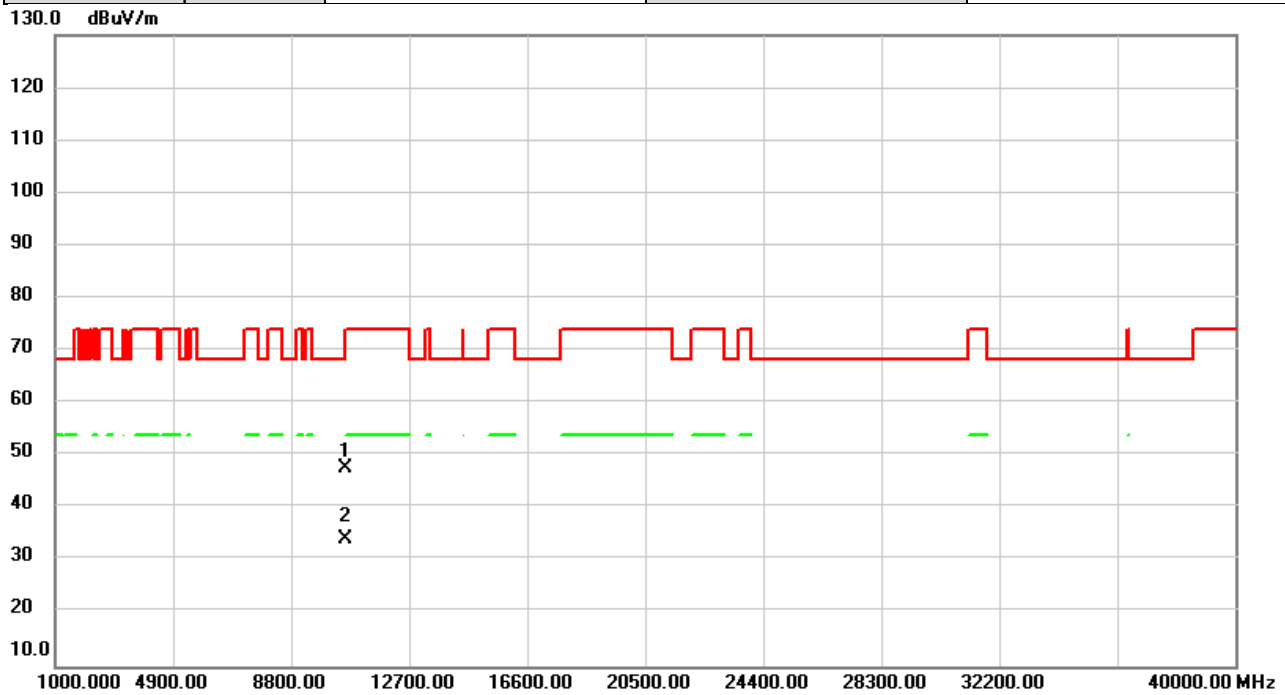


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	40.30	5.72	46.02	68.20	-22.18	peak	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5300MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

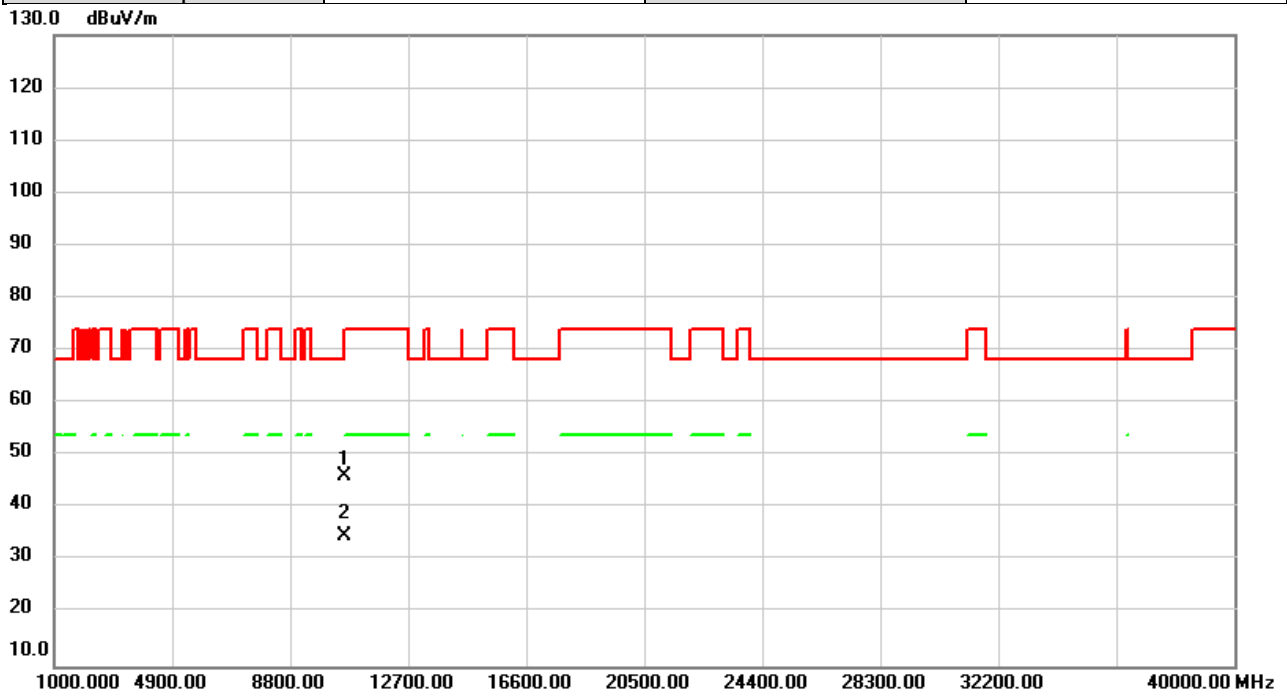


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10600.00	41.93	5.68	47.61	68.20	-20.59	peak	
2	*	10600.00	28.44	5.68	34.12	54.00	-19.88	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5300MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

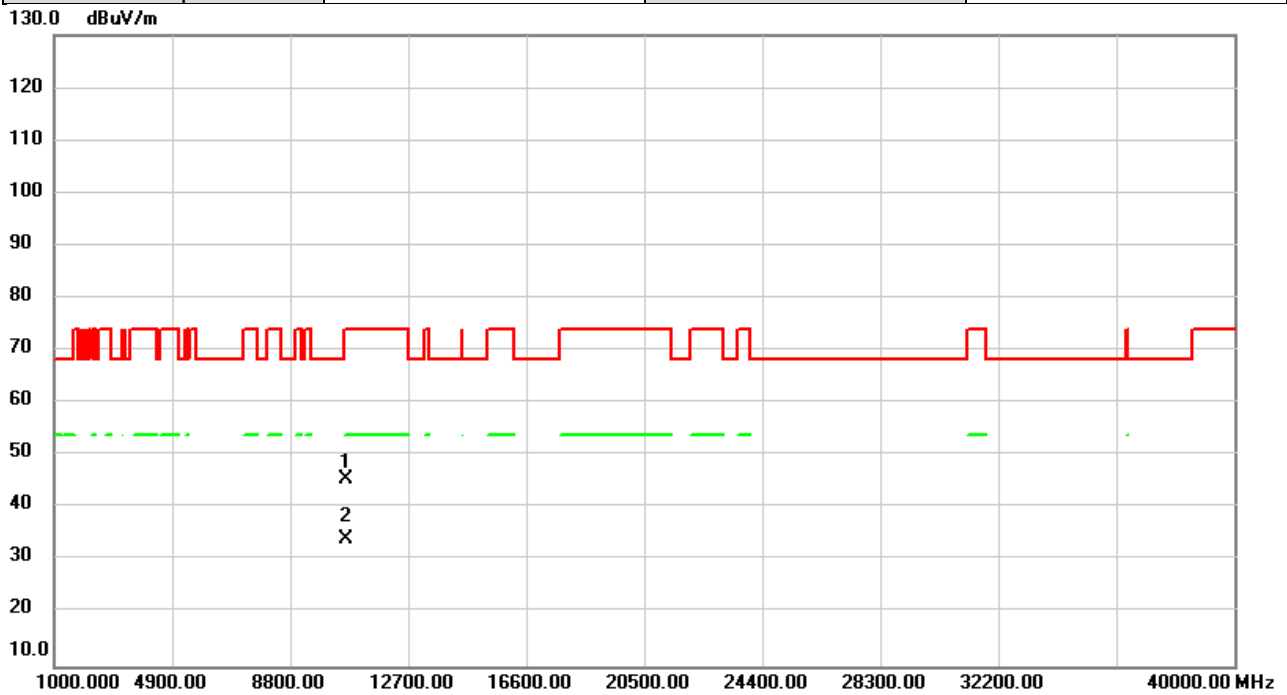


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10600.00	40.35	5.68	46.03	68.20	-22.17	peak	
2	*	10600.00	29.03	5.68	34.71	54.00	-19.29	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5320MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

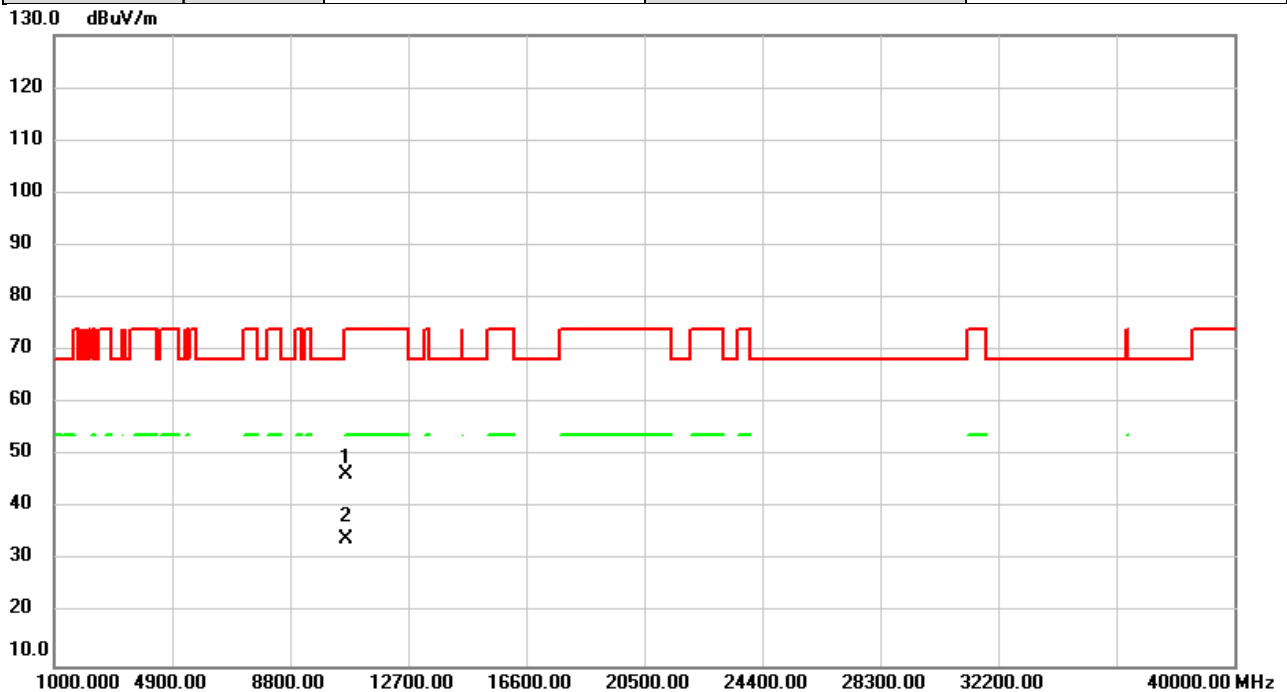


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10640.00	39.78	5.65	45.43	74.00	-28.57	peak	
2	*	10640.00	28.45	5.65	34.10	54.00	-19.90	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5320MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

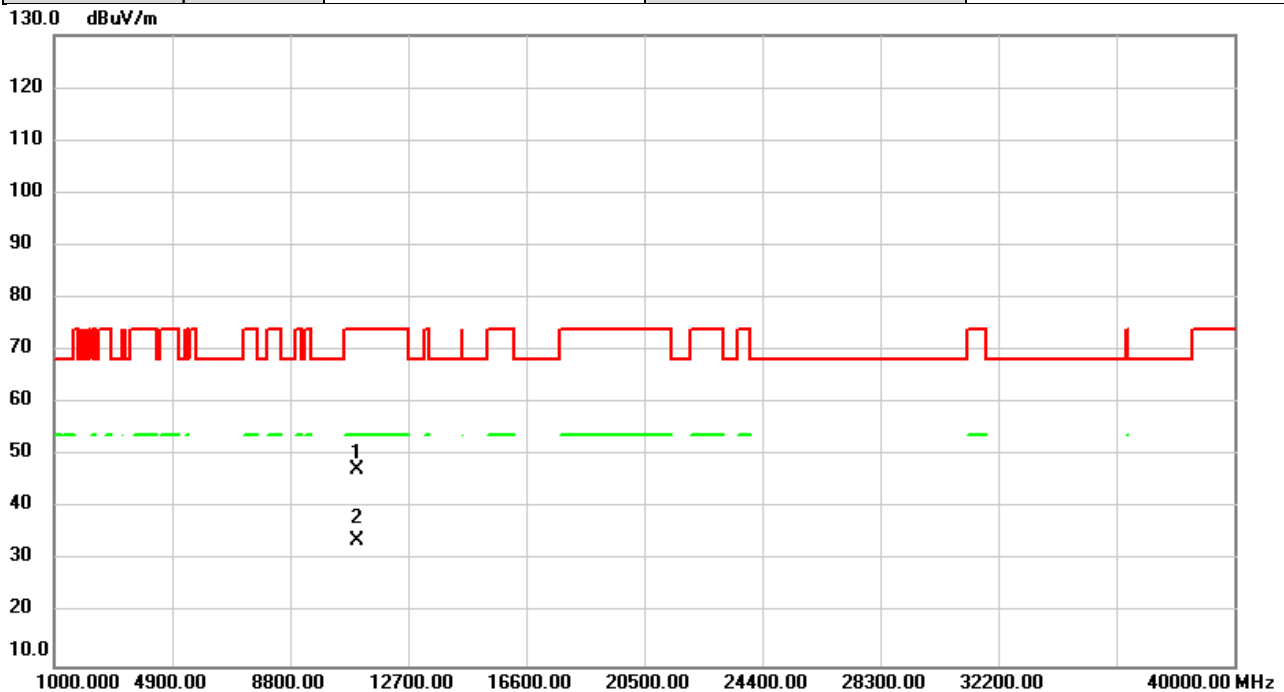


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10640.00	40.76	5.65	46.41	74.00	-27.59	peak	
2	*	10640.00	28.54	5.65	34.19	54.00	-19.81	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5500MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

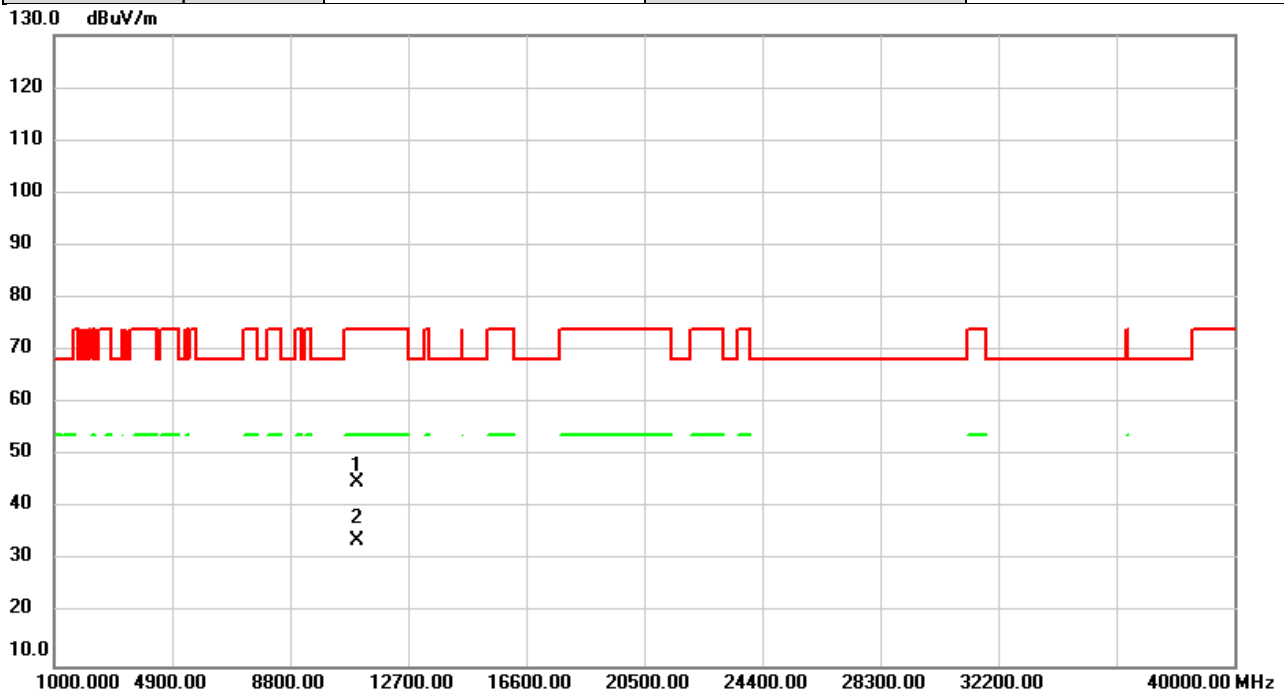


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11000.00	41.80	5.46	47.26	74.00	-26.74	peak	
2	*	11000.00	28.38	5.46	33.84	54.00	-20.16	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5500MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

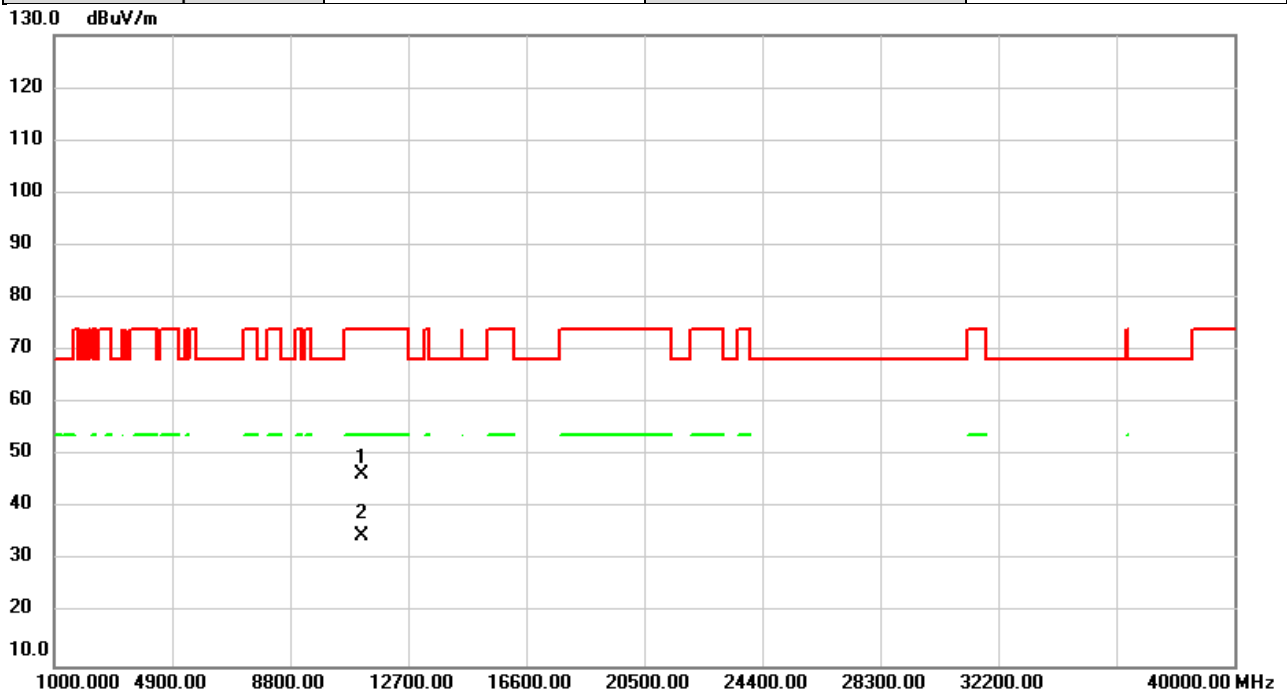


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11000.00	39.56	5.46	45.02	74.00	-28.98	peak	
2	*	11000.00	28.39	5.46	33.85	54.00	-20.15	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5580MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

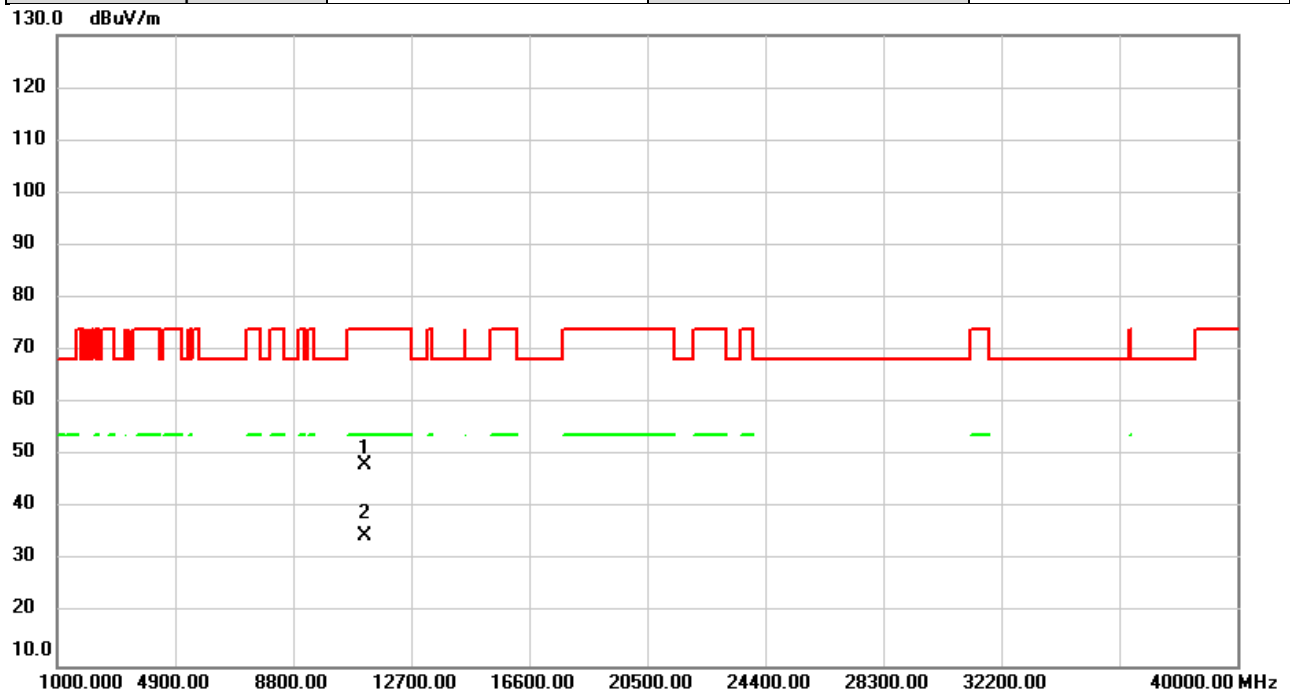


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11160.00	40.82	5.73	46.55	74.00	-27.45	peak	
2	*	11160.00	28.87	5.73	34.60	54.00	-19.40	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5580MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

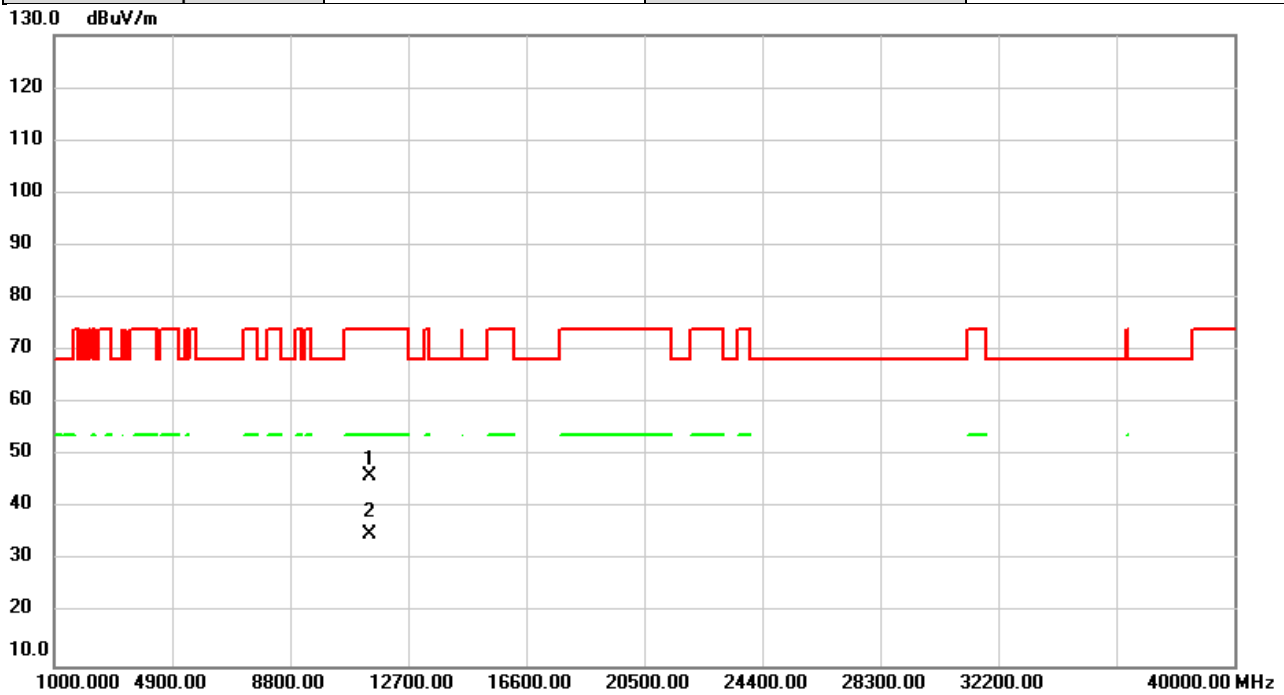


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11160.00	42.54	5.73	48.27	74.00	-25.73	peak	
2	*	11160.00	28.96	5.73	34.69	54.00	-19.31	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5700MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

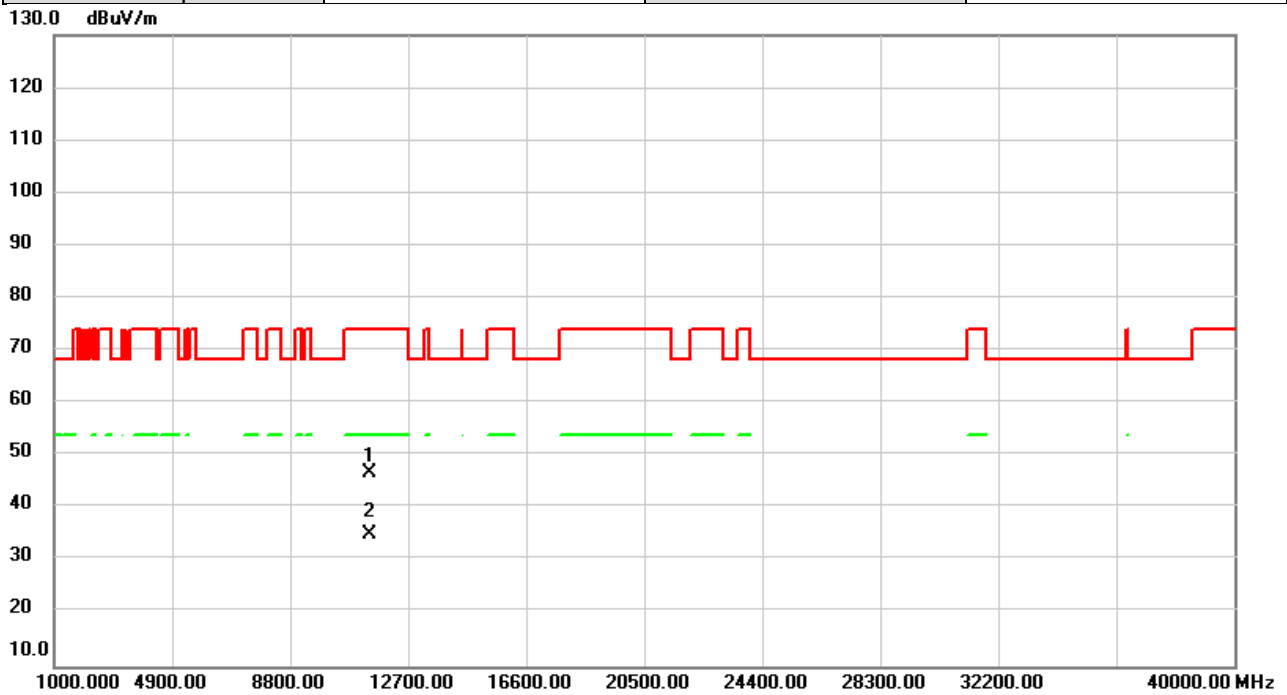


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	40.18	6.12	46.30	74.00	-27.70	peak	
2	*	11400.00	28.83	6.12	34.95	54.00	-19.05	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5700MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

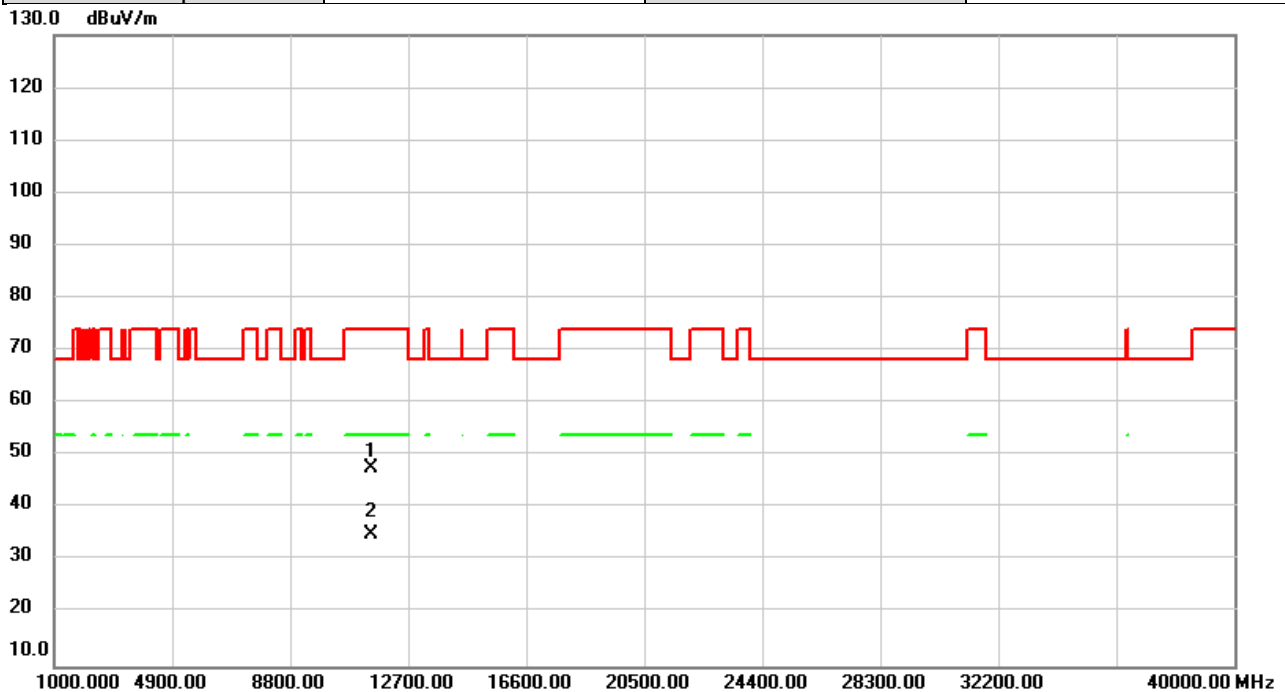


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11400.00	40.73	6.12	46.85	74.00	-27.15	peak	
2	*	11400.00	28.86	6.12	34.98	54.00	-19.02	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5745MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

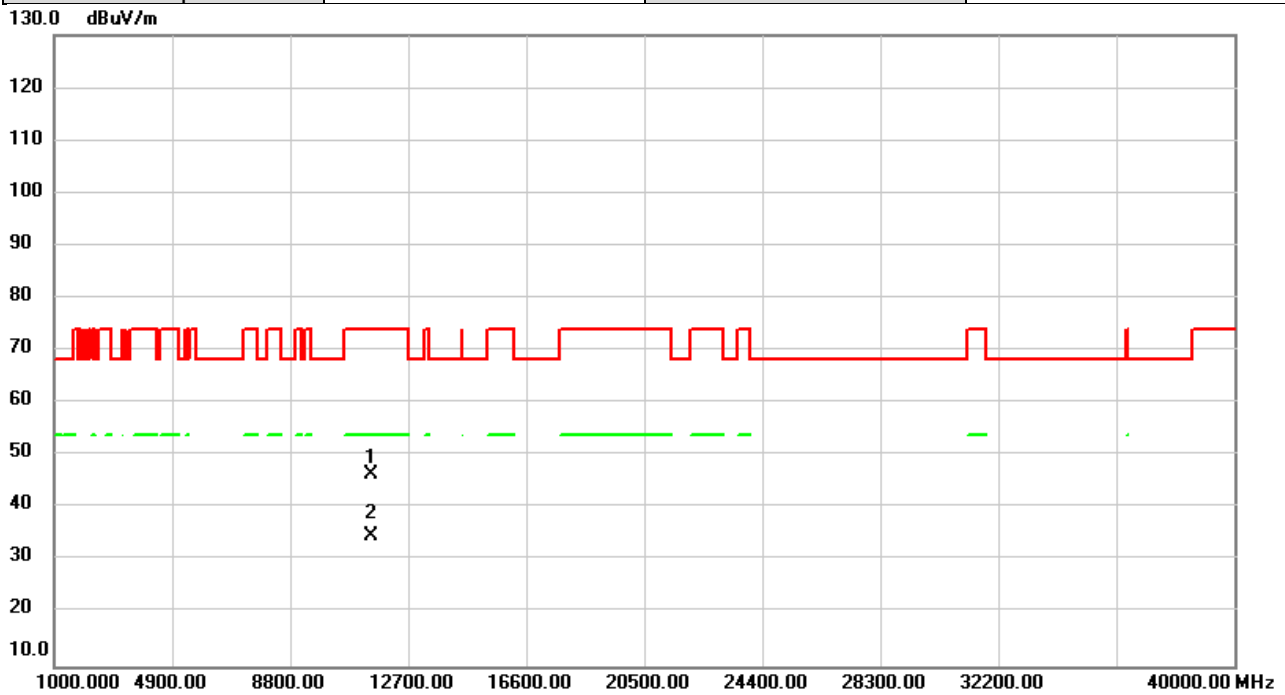


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	41.34	6.26	47.60	74.00	-26.40	peak	
2	*	11490.00	28.75	6.26	35.01	54.00	-18.99	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5745MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

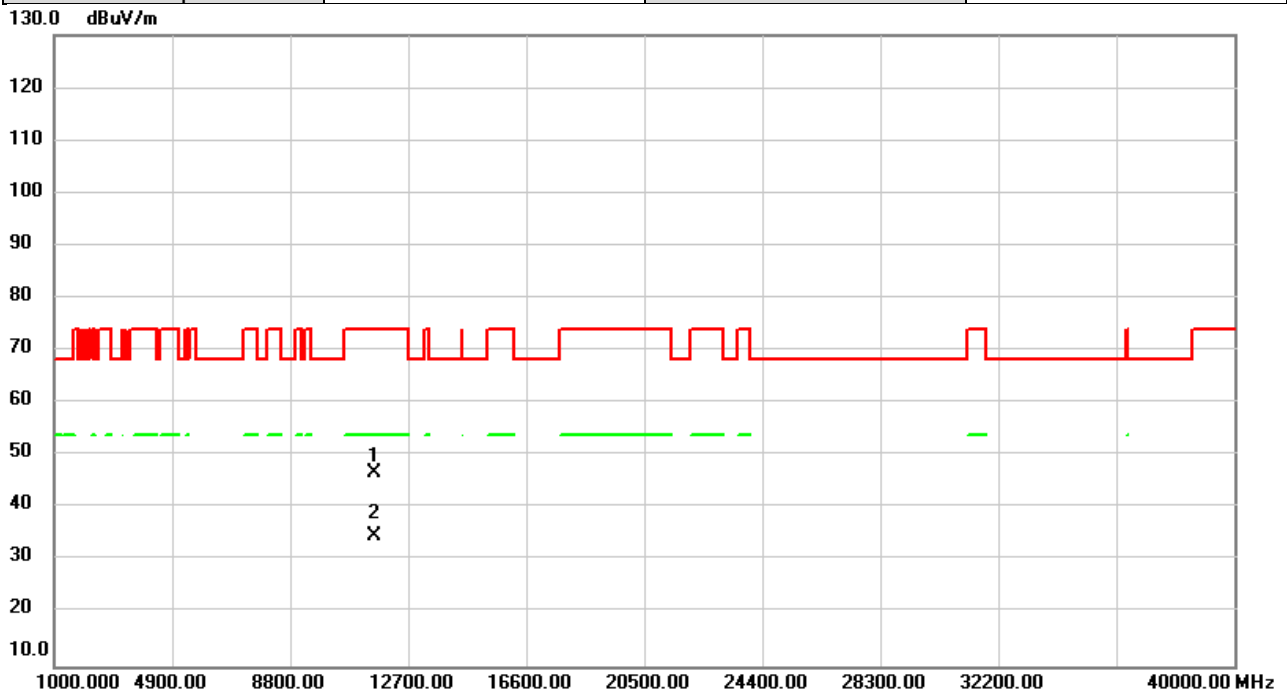


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	40.32	6.26	46.58	74.00	-27.42	peak	
2	*	11490.00	28.63	6.26	34.89	54.00	-19.11	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5785MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

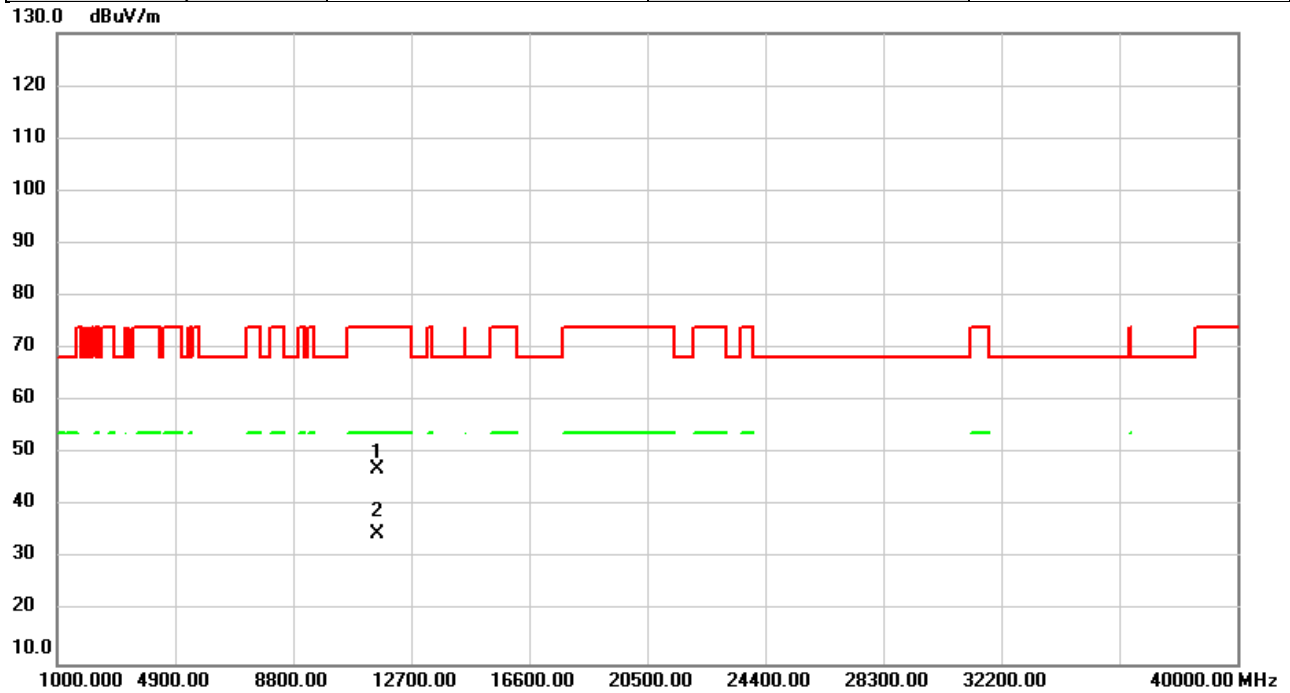


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	40.50	6.32	46.82	74.00	-27.18	peak	
2	*	11570.00	28.45	6.32	34.77	54.00	-19.23	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5785MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

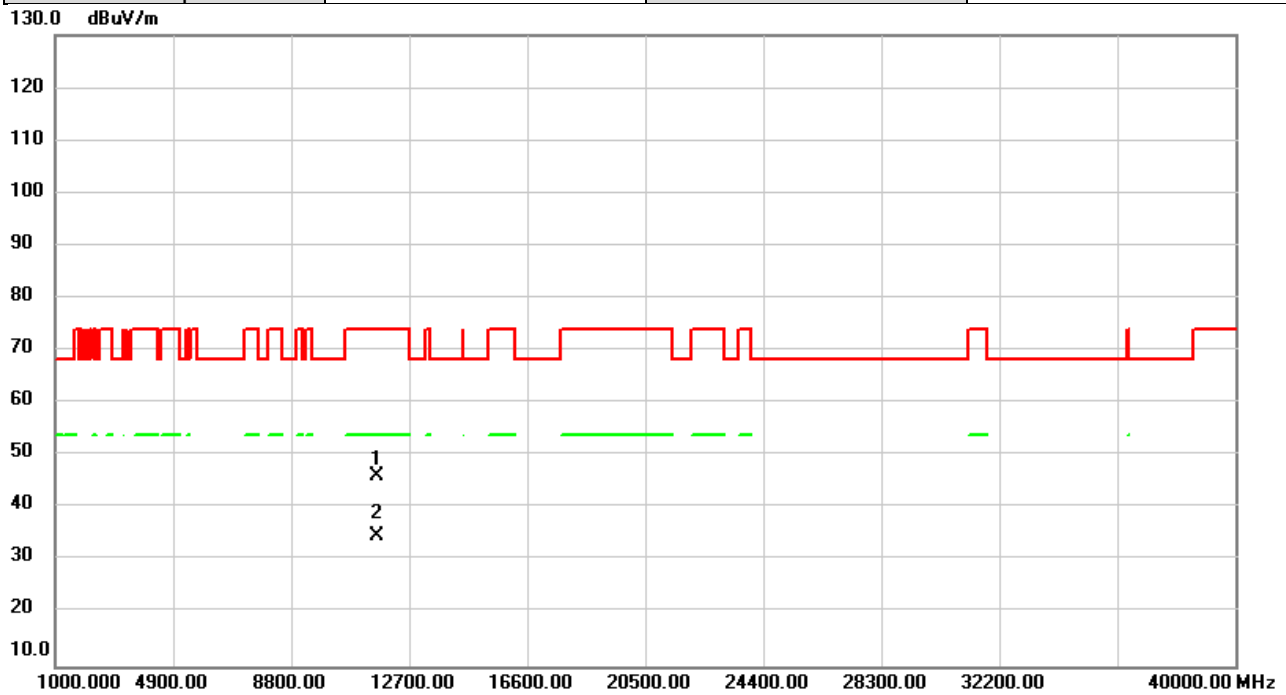


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	40.75	6.32	47.07	74.00	-26.93	peak	
2	*	11570.00	28.54	6.32	34.86	54.00	-19.14	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5825MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

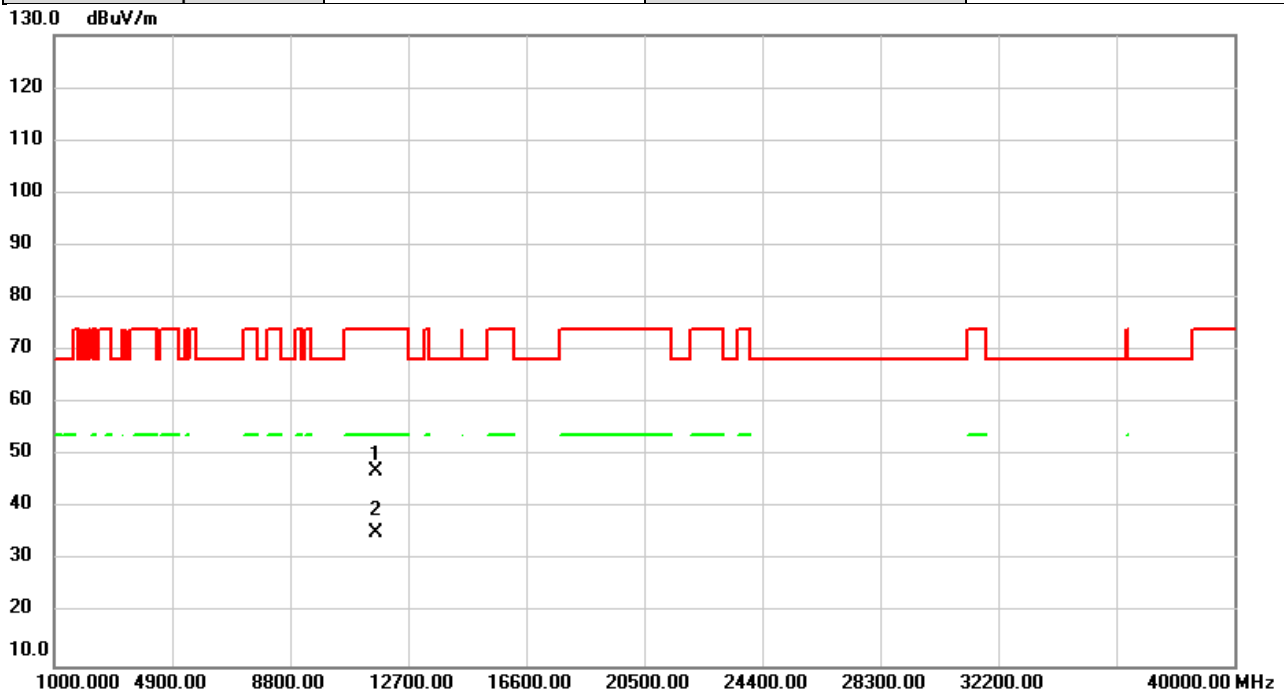


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	39.87	6.37	46.24	74.00	-27.76	peak	
2	*	11650.00	28.47	6.37	34.84	54.00	-19.16	AVG	

REMARKS:

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

Test Mode	IEEE 802.11a	Test Date	2022/12/23
Test Frequency	5825MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

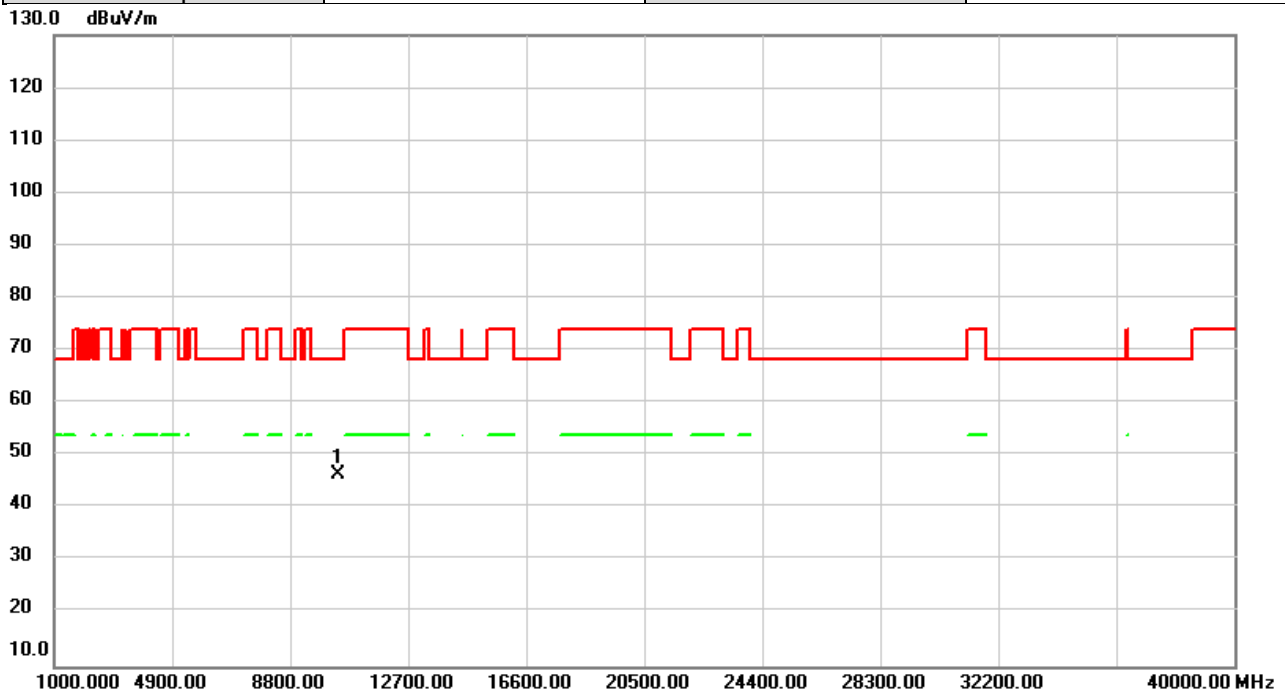


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	40.73	6.37	47.10	74.00	-26.90	peak	
2	*	11650.00	28.83	6.37	35.20	54.00	-18.80	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5180MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



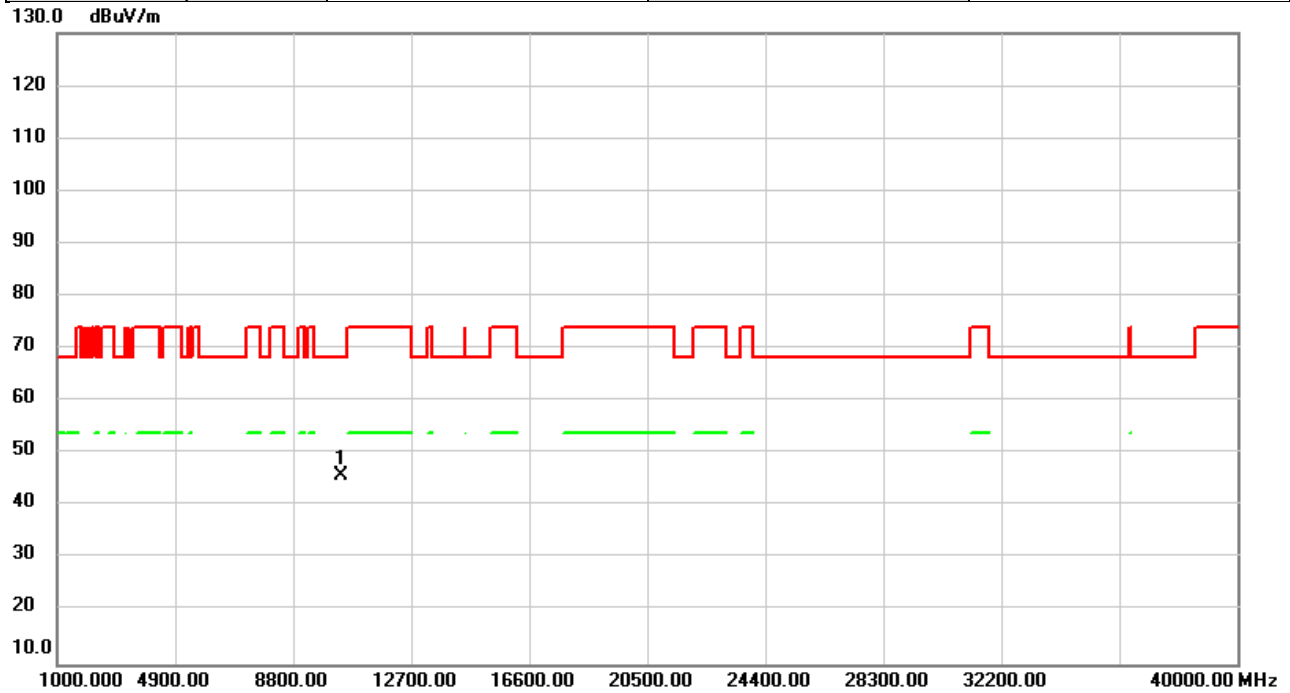
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	40.60	5.82	46.42	68.20	-21.78	peak	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5180MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

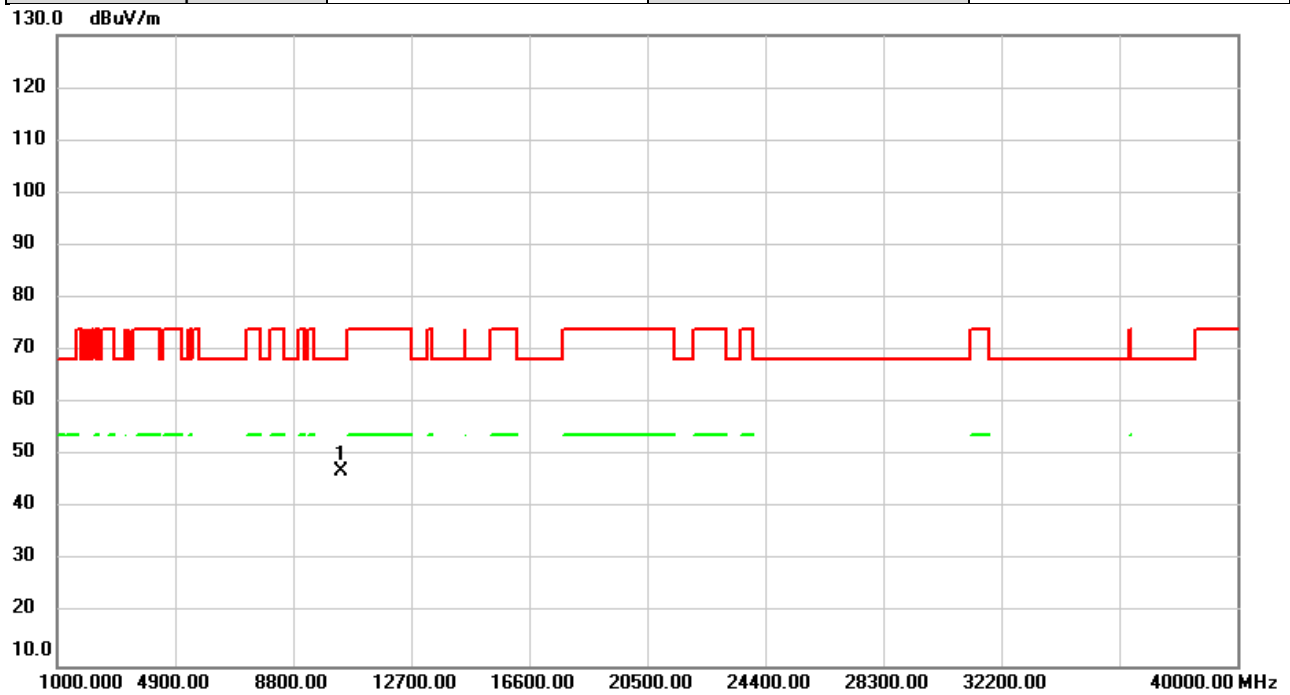


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	39.88	5.82	45.70	68.20	-22.50	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5200MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



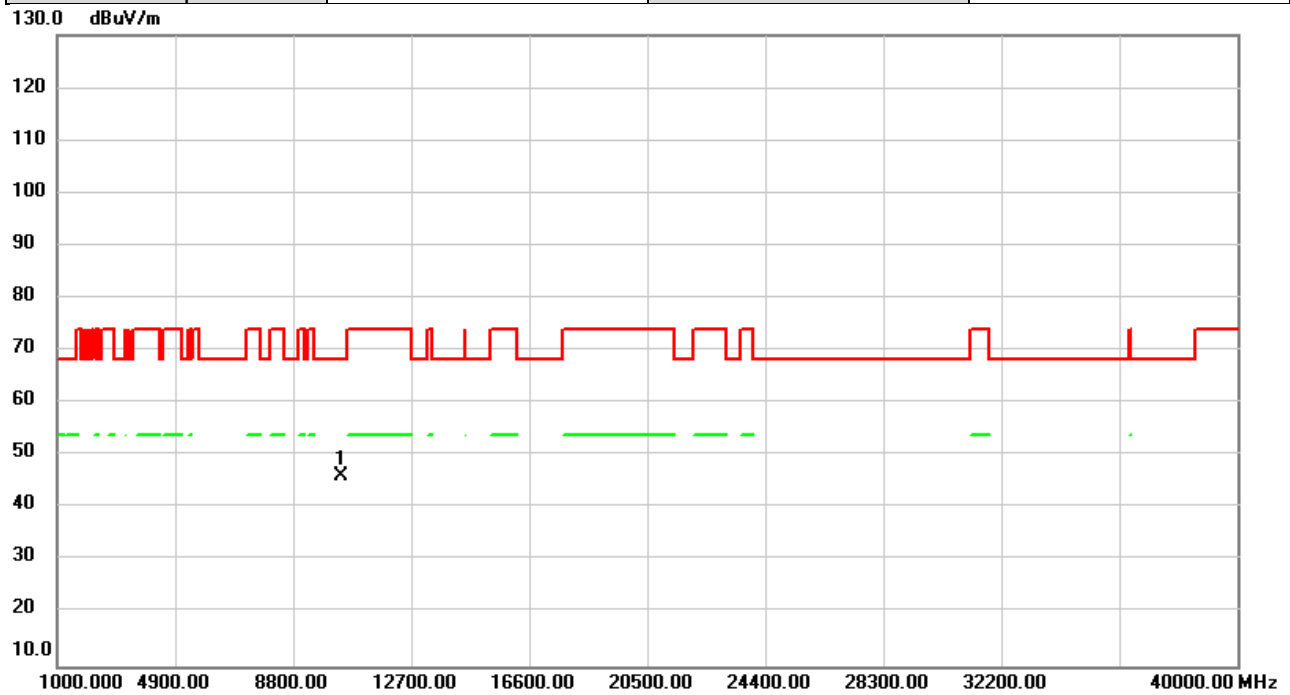
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	41.12	5.80	46.92	68.20	-21.28	peak	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5200MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

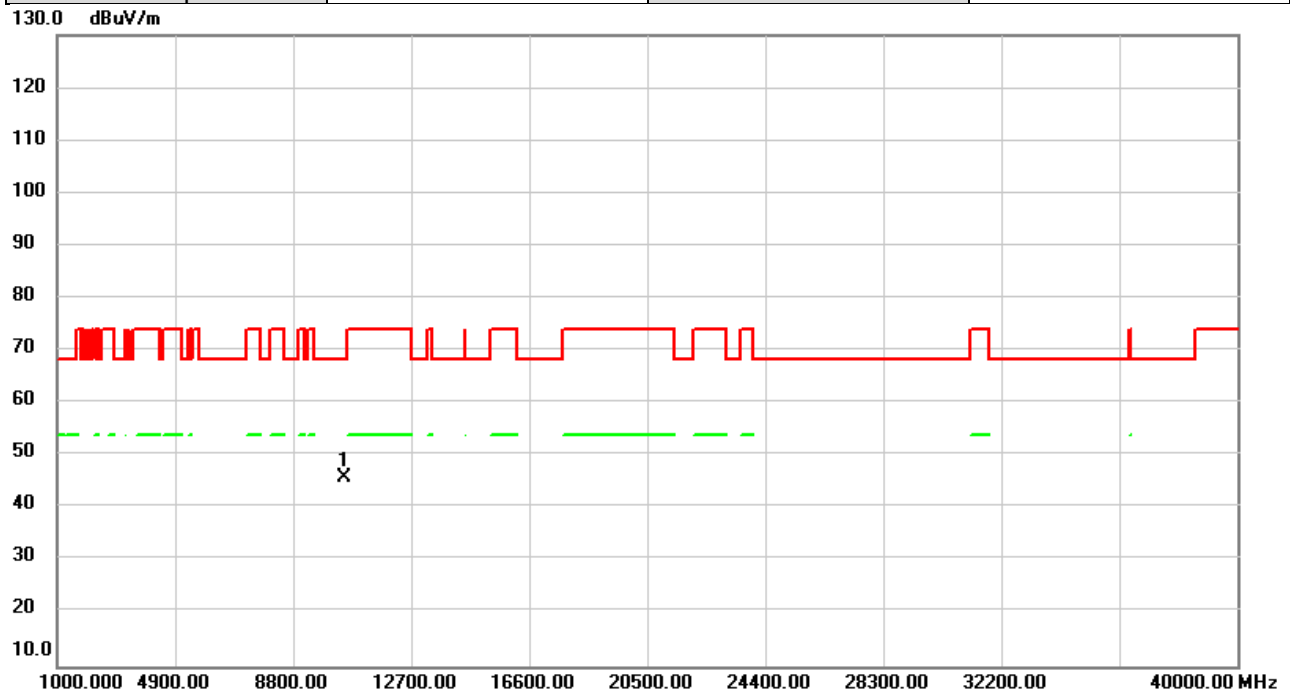


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10400.00	40.24	5.80	46.04	68.20	-22.16	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5240MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

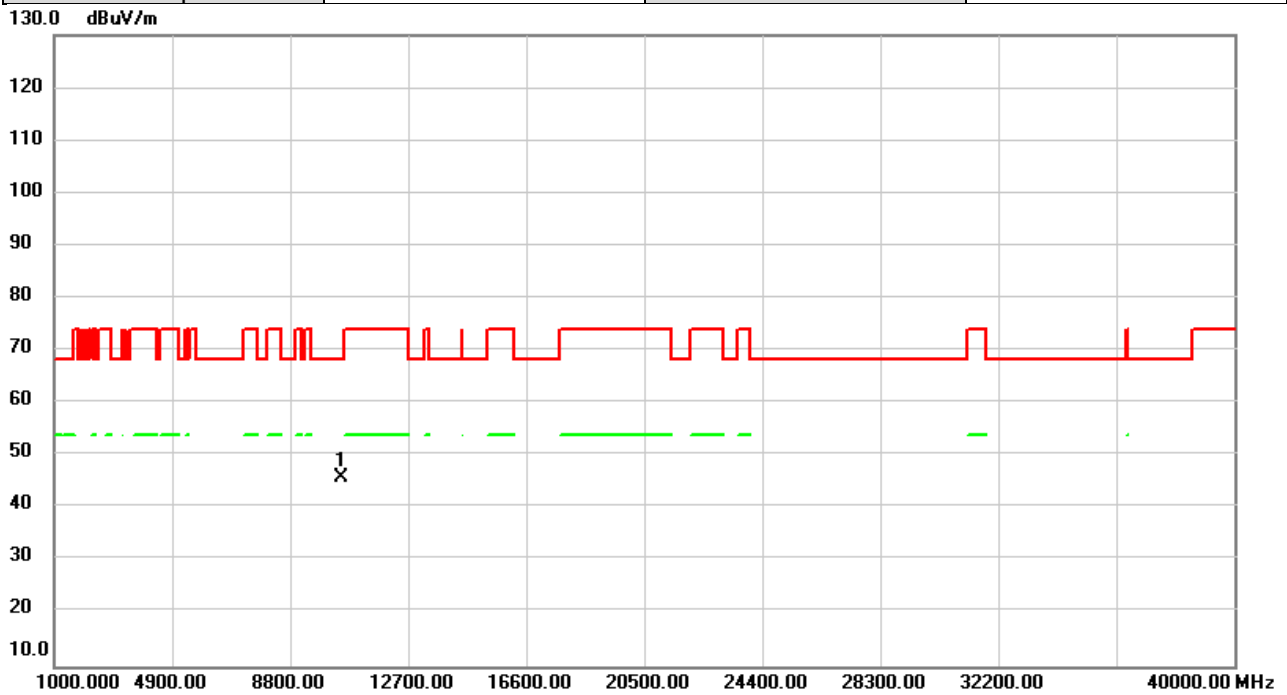


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10480.00	40.23	5.75	45.98	68.20	-22.22	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5240MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

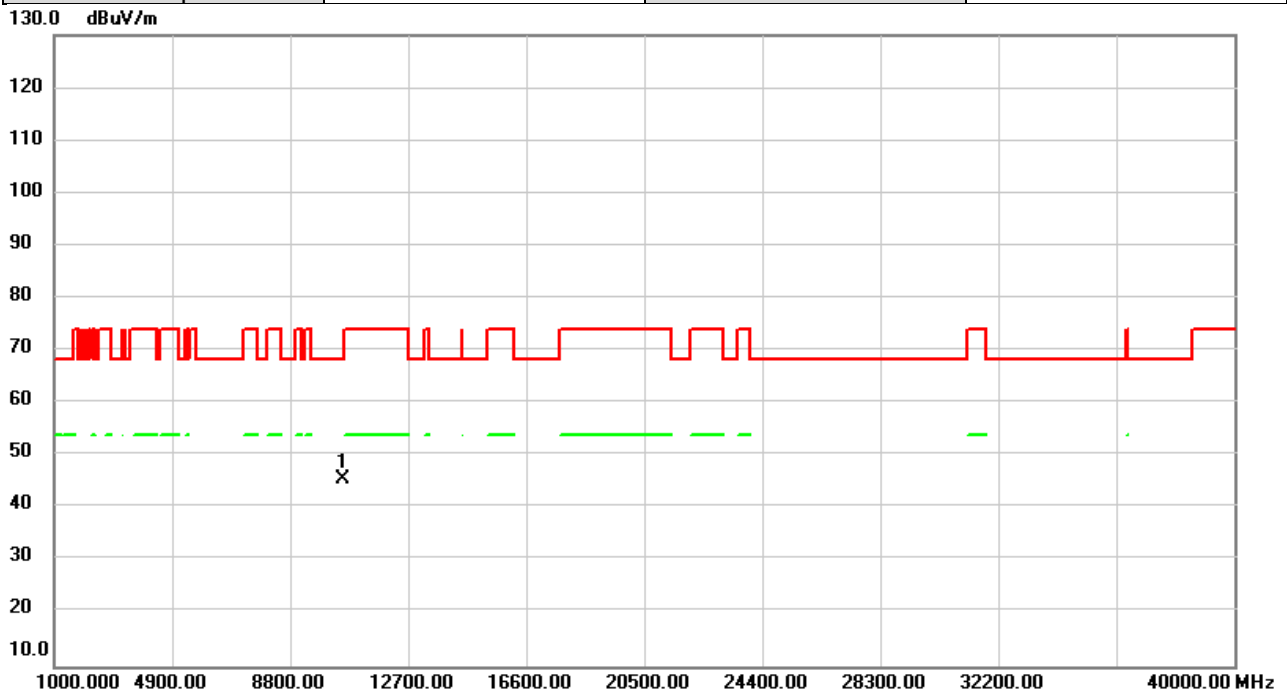


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	40.24	5.75	45.99	68.20	-22.21	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5260MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

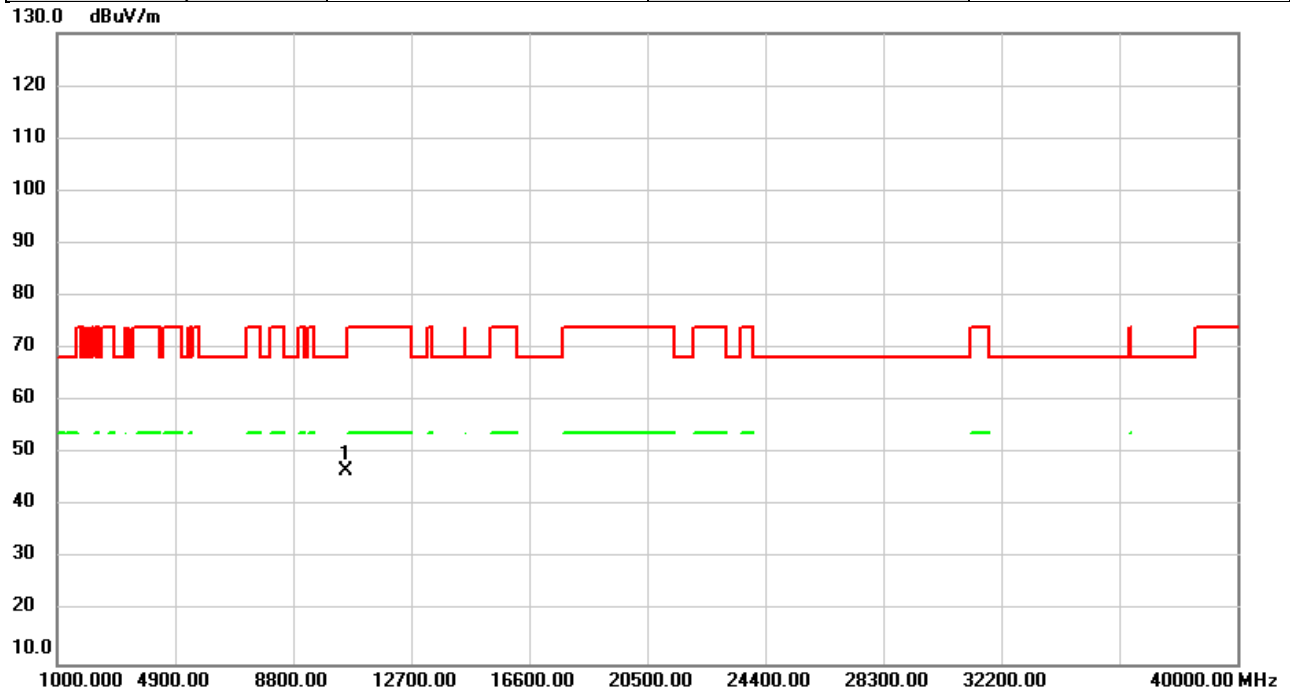


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	39.72	5.72	45.44	68.20	-22.76	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5260MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

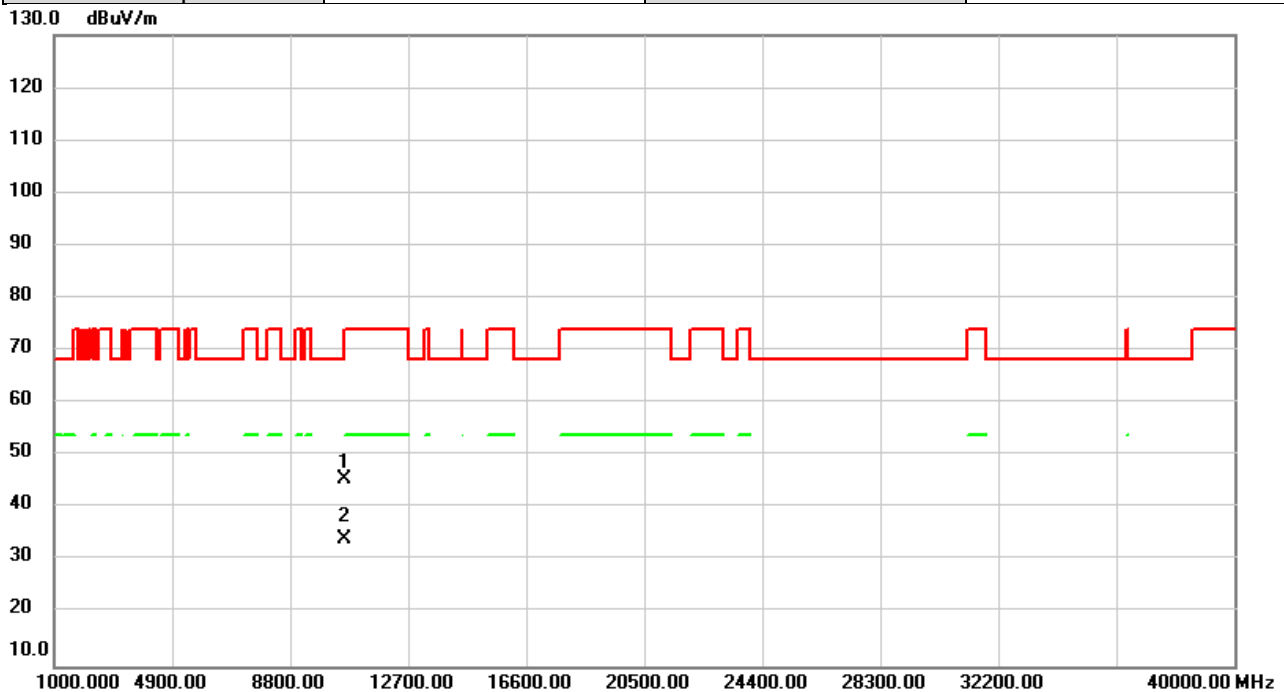


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	40.95	5.72	46.67	68.20	-21.53	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5300MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

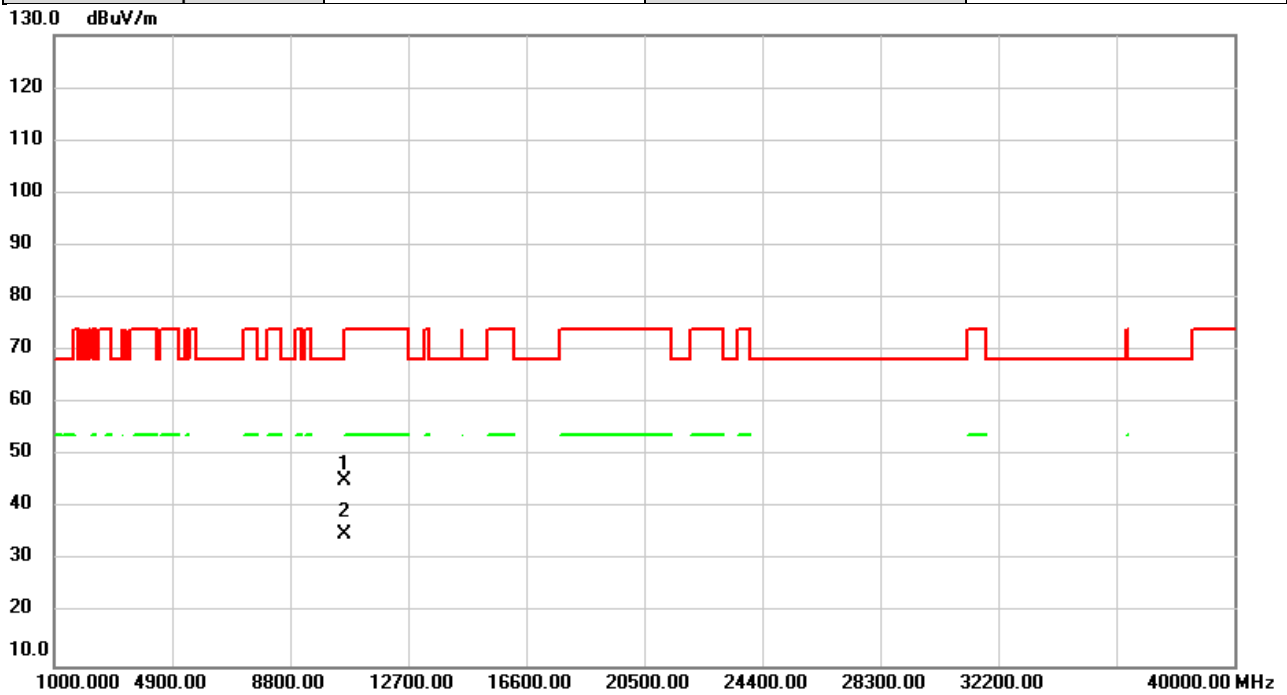


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	39.98	5.68	45.66	68.20	-22.54	peak	
2	*	10600.00	28.40	5.68	34.08	54.00	-19.92	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5300MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

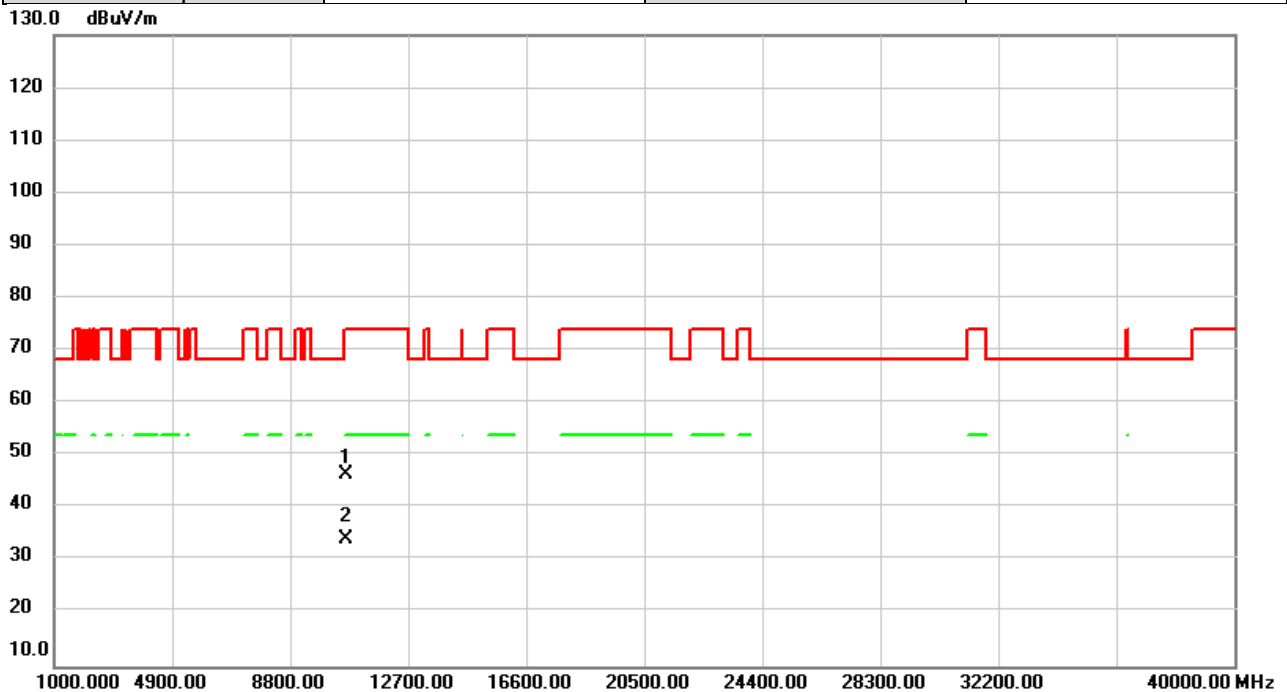


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10600.00	39.54	5.68	45.22	68.20	-22.98	peak	
2	*	10600.00	29.28	5.68	34.96	54.00	-19.04	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5320MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

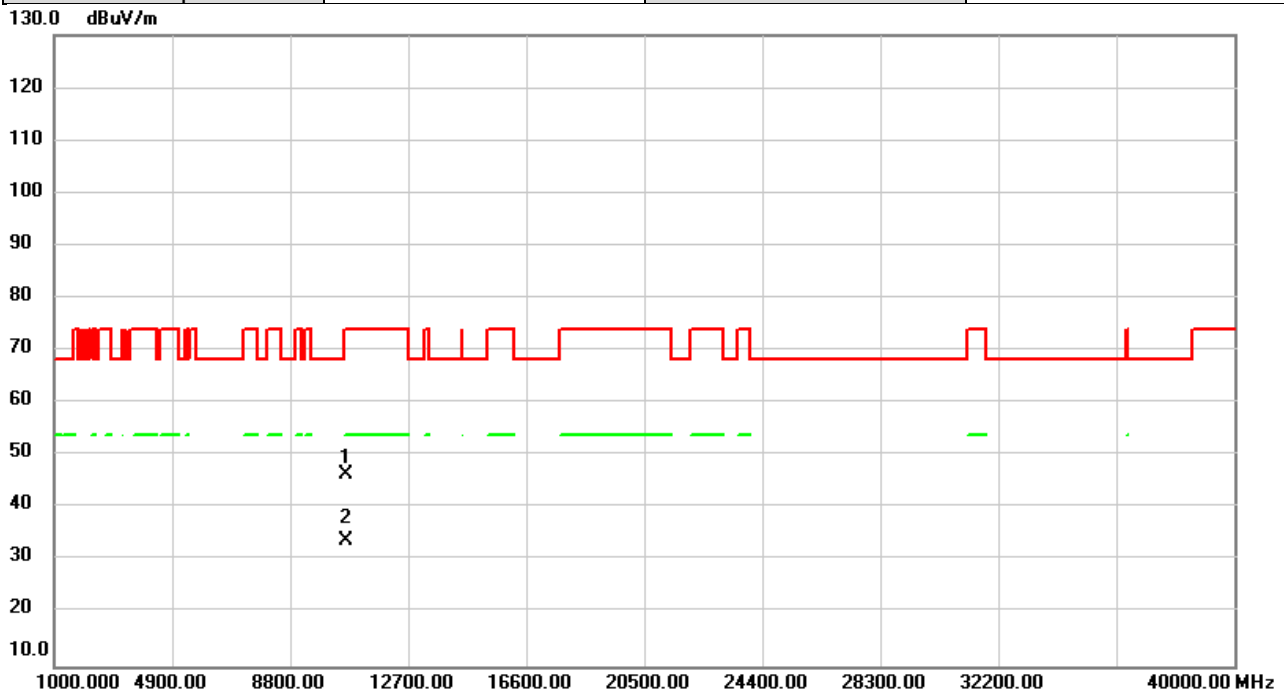


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10640.00	40.75	5.65	46.40	74.00	-27.60	peak	
2	*	10640.00	28.44	5.65	34.09	54.00	-19.91	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5320MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

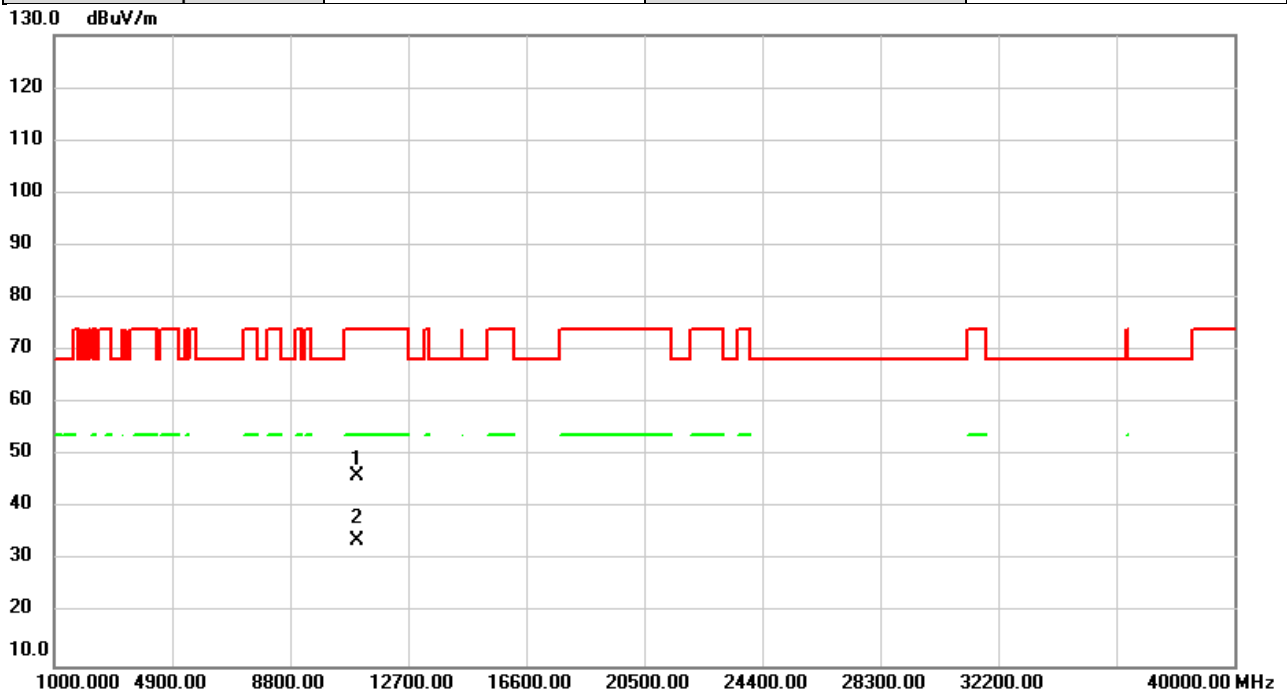


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	40.66	5.65	46.31	74.00	-27.69	peak	
2	*	10640.00	28.35	5.65	34.00	54.00	-20.00	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5500MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

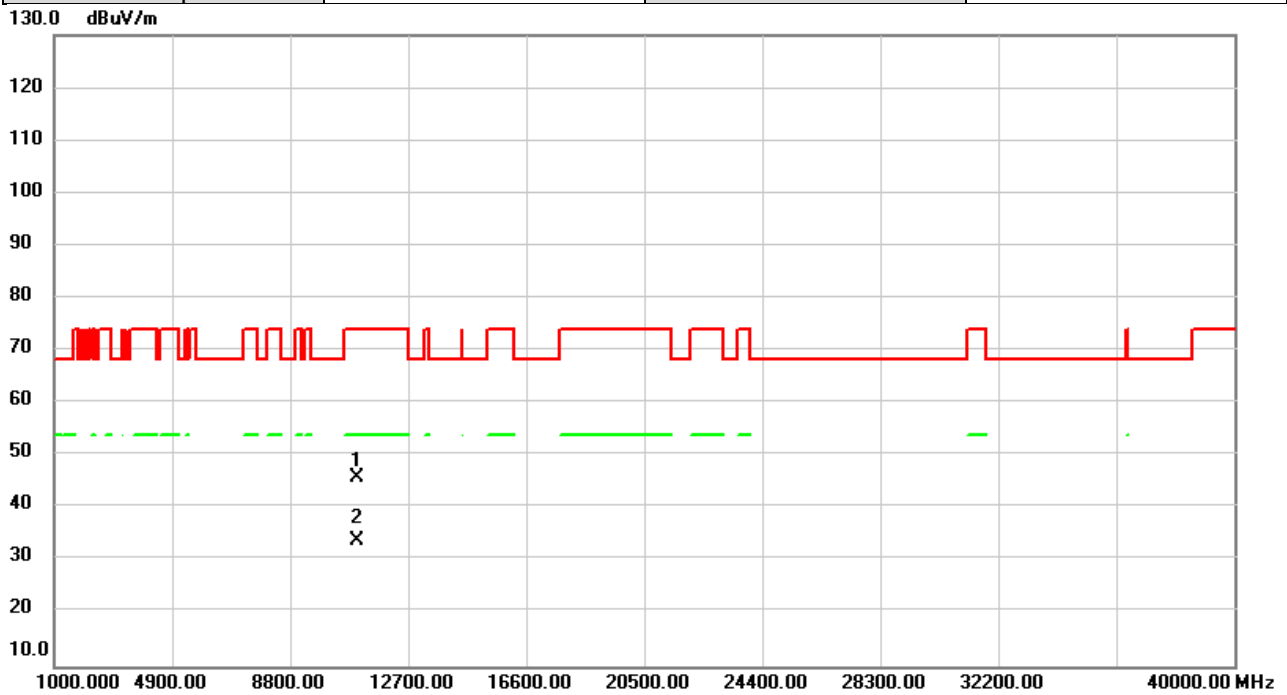


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11000.00	40.62	5.46	46.08	74.00	-27.92	peak	
2	*	11000.00	28.42	5.46	33.88	54.00	-20.12	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5500MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

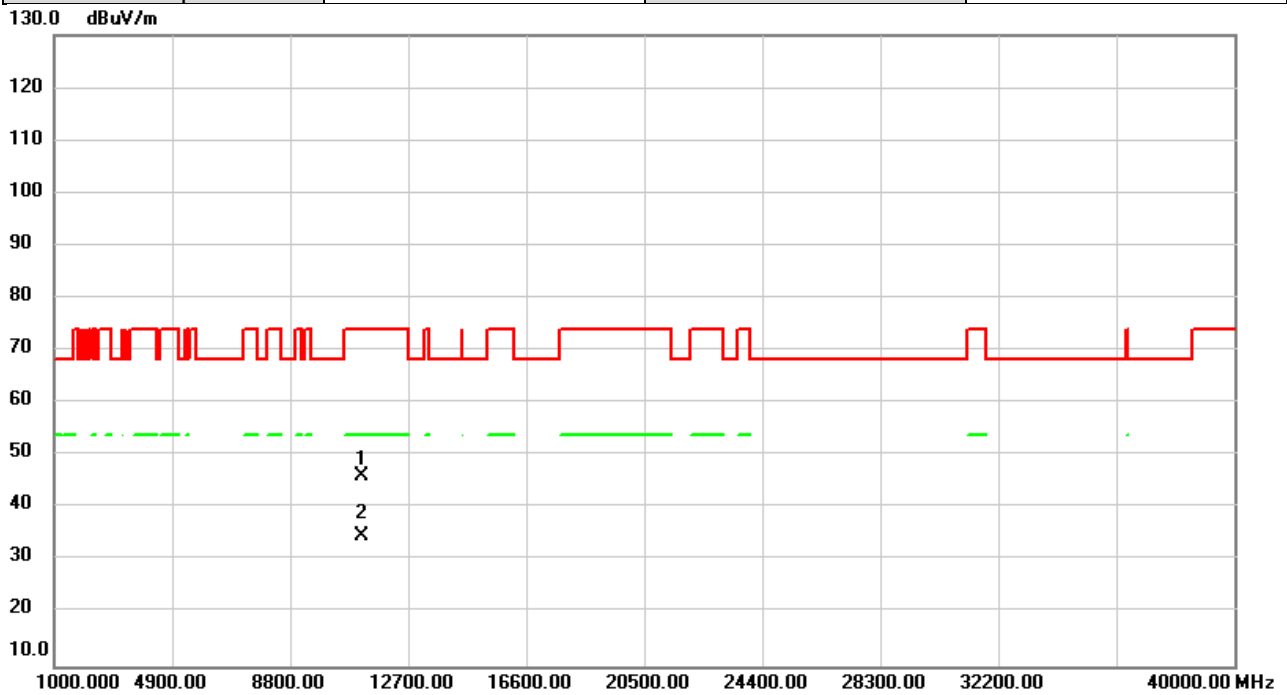


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11000.00	40.42	5.46	45.88	74.00	-28.12	peak	
2	*	11000.00	28.44	5.46	33.90	54.00	-20.10	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5580MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

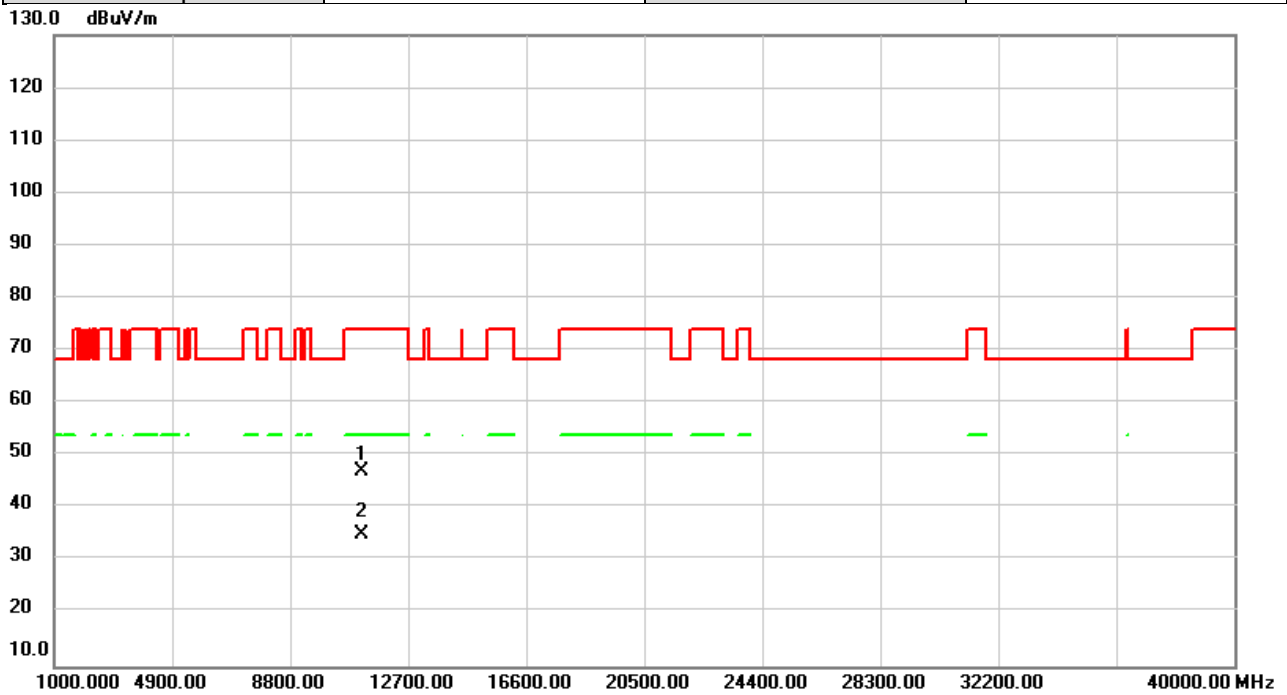


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11160.00	40.50	5.73	46.23	74.00	-27.77	peak	
2	*	11160.00	28.93	5.73	34.66	54.00	-19.34	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5580MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

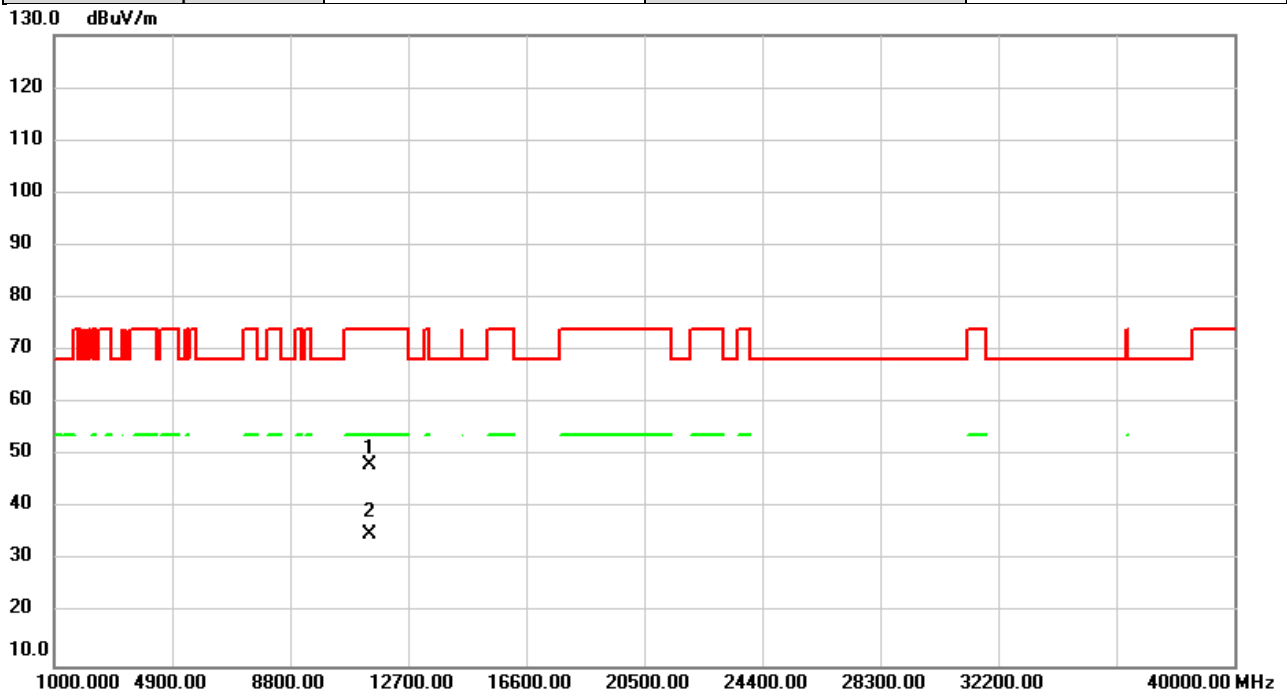


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11160.00	41.44	5.73	47.17	74.00	-26.83	peak	
2	*	11160.00	29.24	5.73	34.97	54.00	-19.03	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5700MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

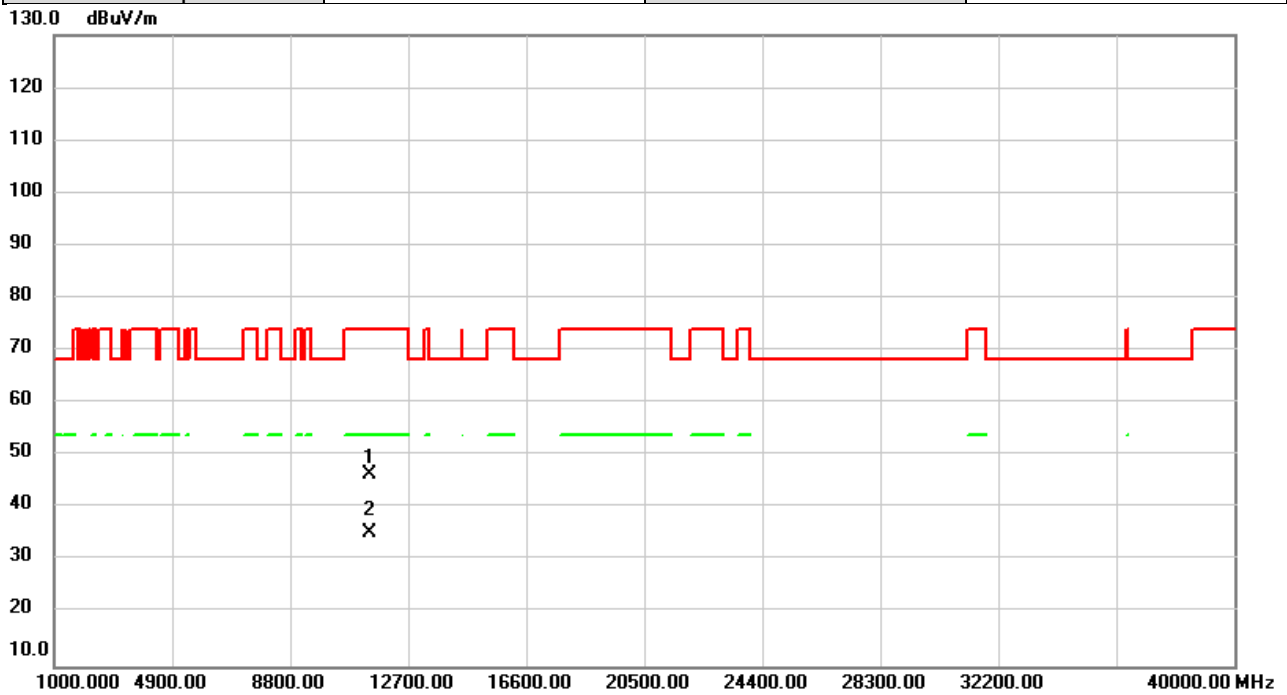


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11400.00	42.14	6.12	48.26	74.00	-25.74	peak	
2	*	11400.00	28.87	6.12	34.99	54.00	-19.01	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5700MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

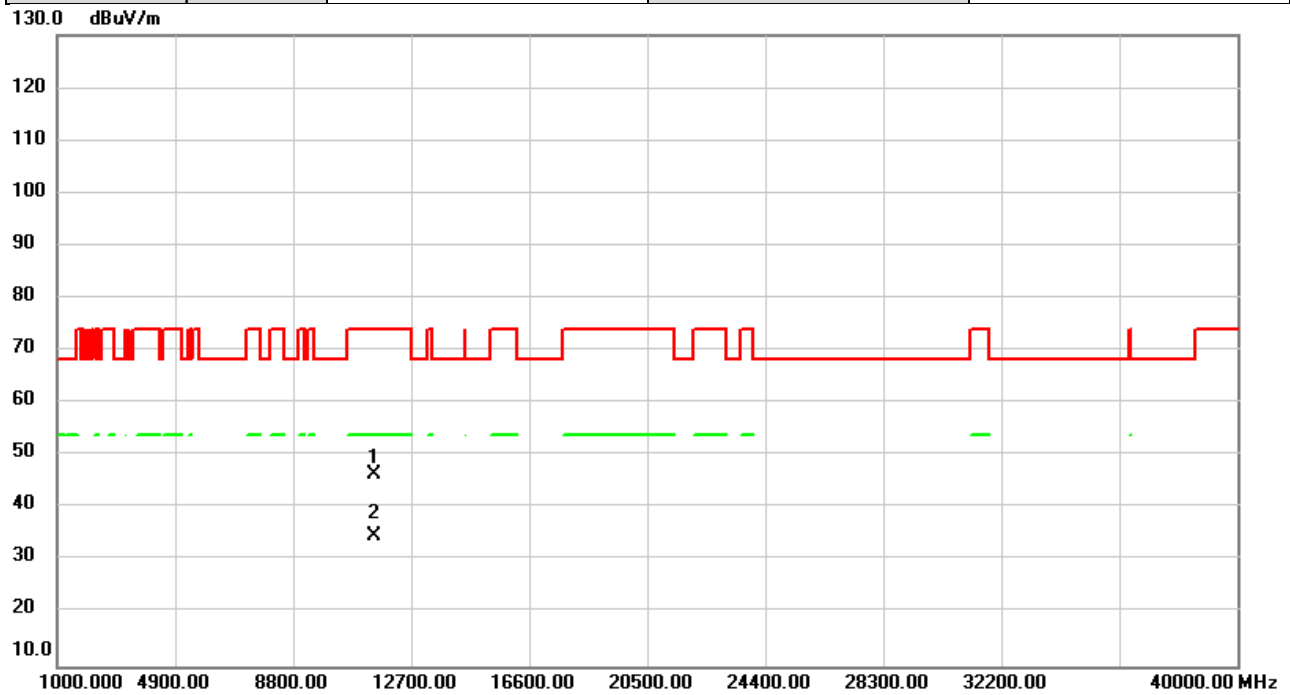


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	40.20	6.12	46.32	74.00	-27.68	peak	
2	*	11400.00	29.08	6.12	35.20	54.00	-18.80	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5745MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

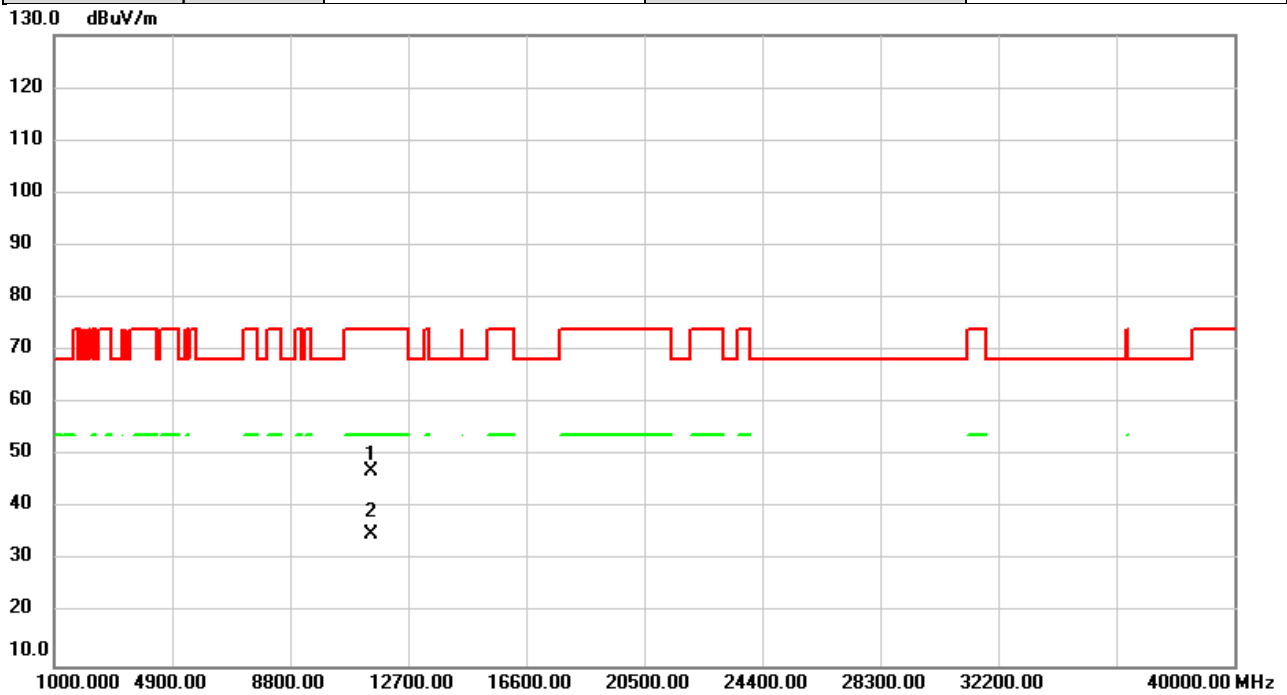


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	40.23	6.26	46.49	74.00	-27.51	peak	
2	*	11490.00	28.57	6.26	34.83	54.00	-19.17	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5745MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

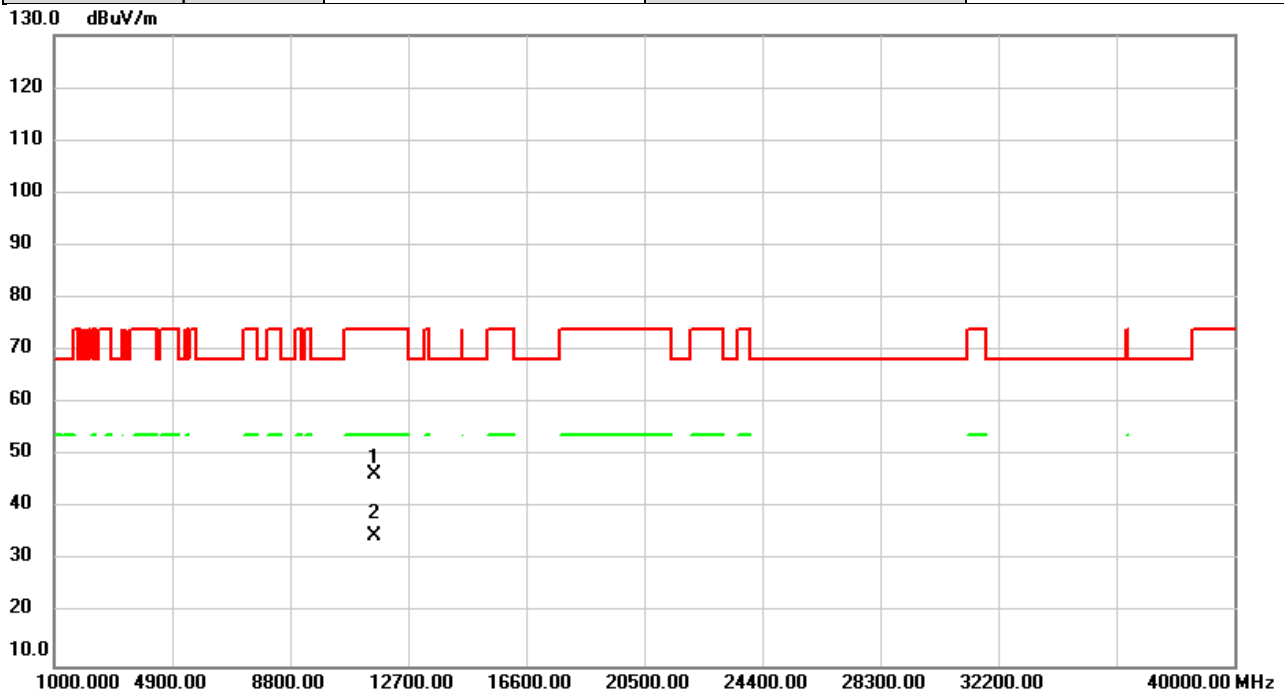


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	40.78	6.26	47.04	74.00	-26.96	peak	
2	*	11490.00	28.67	6.26	34.93	54.00	-19.07	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5785MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

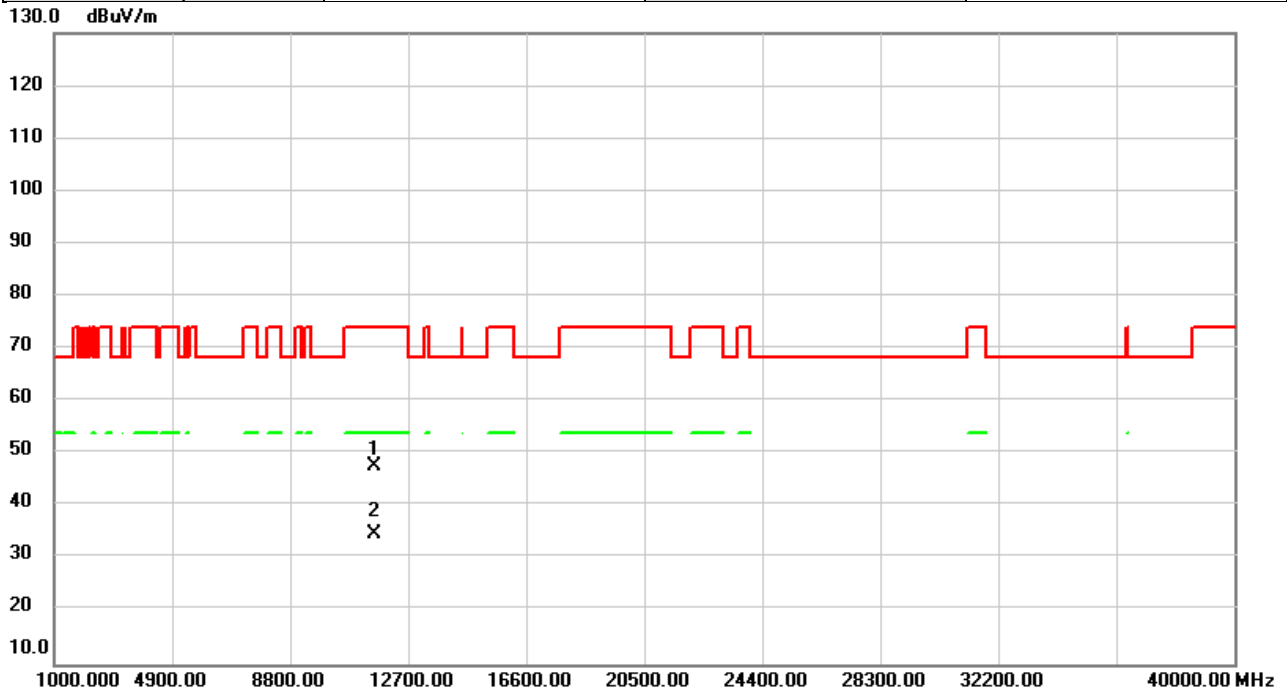


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	40.01	6.32	46.33	74.00	-27.67	peak	
2	*	11570.00	28.34	6.32	34.66	54.00	-19.34	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5785MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

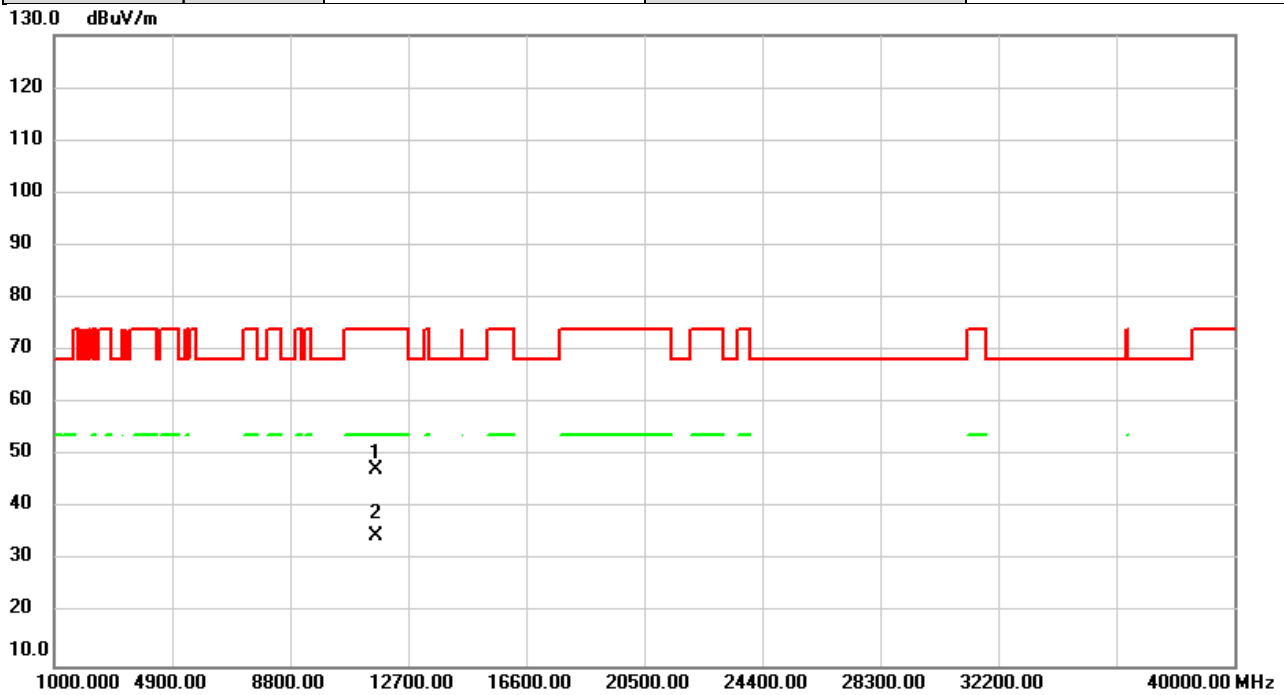


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	41.48	6.32	47.80	74.00	-26.20	peak	
2	*	11570.00	28.32	6.32	34.64	54.00	-19.36	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5825MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

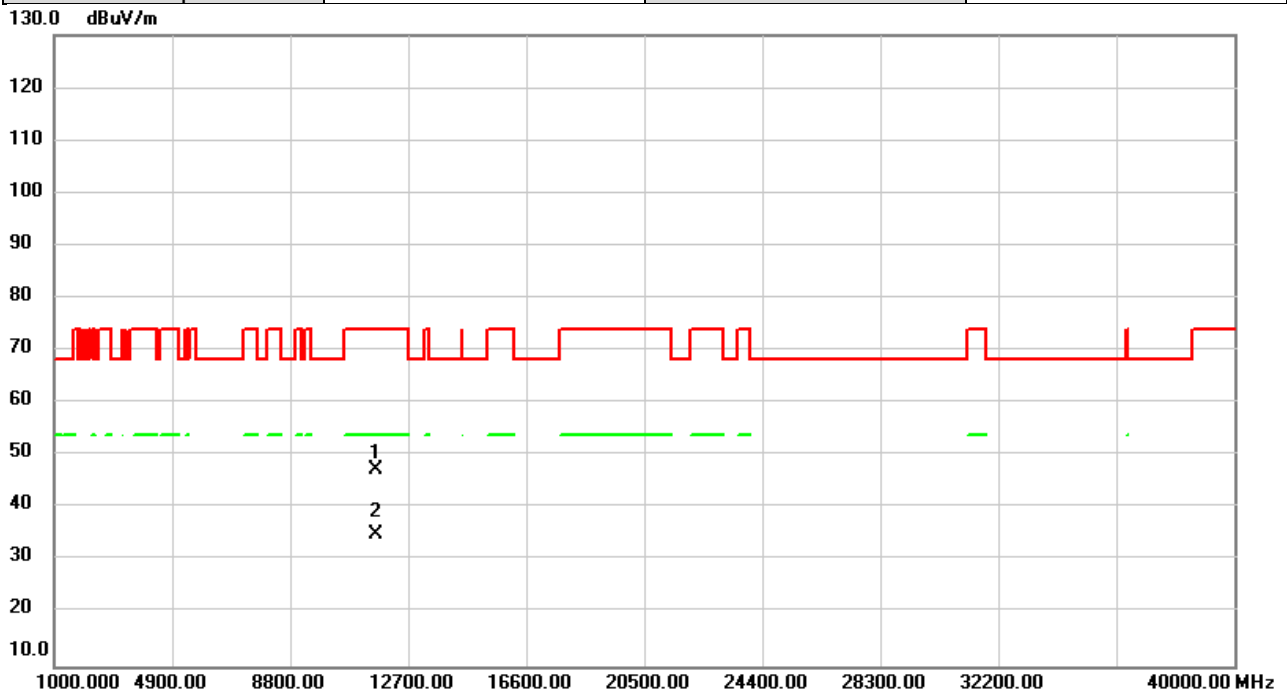


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	40.84	6.37	47.21	74.00	-26.79	peak	
2	*	11650.00	28.48	6.37	34.85	54.00	-19.15	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/12/23
Test Frequency	5825MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

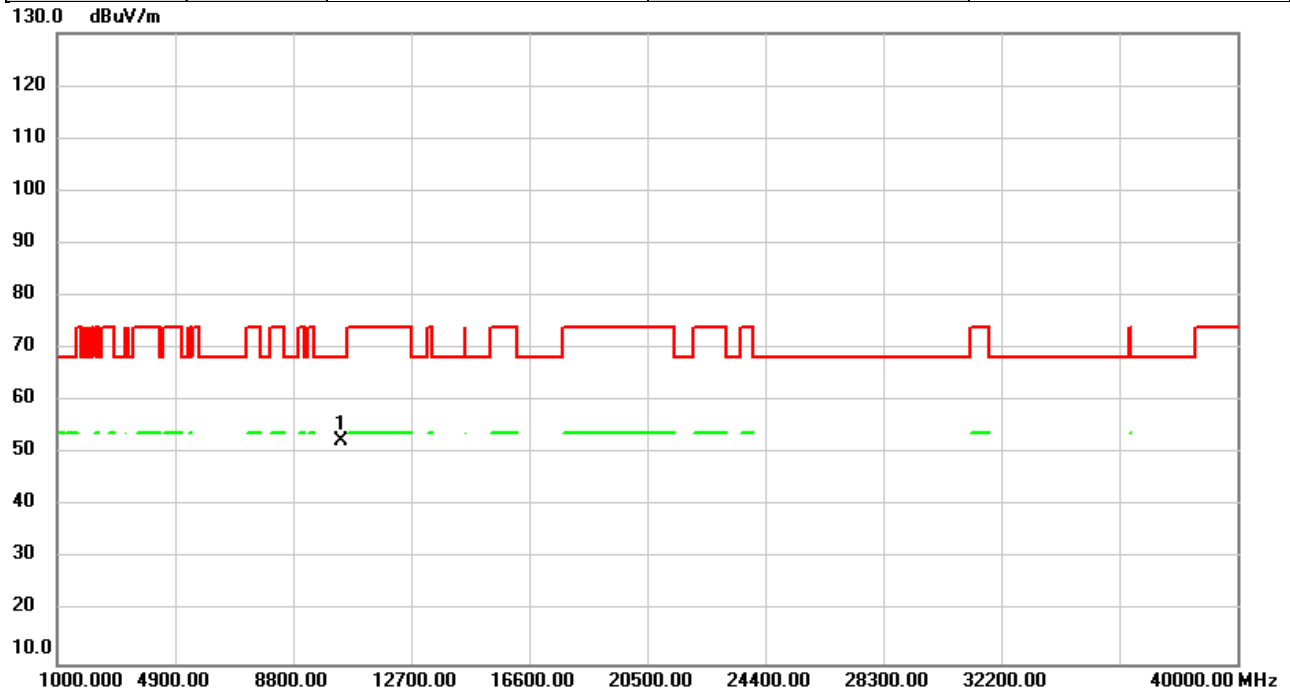


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	40.86	6.37	47.23	74.00	-26.77	peak	
2	*	11650.00	28.81	6.37	35.18	54.00	-18.82	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/6/26
Test Frequency	5190MHz	Polarization	Vertical
Temp	24°C	Hum.	58%



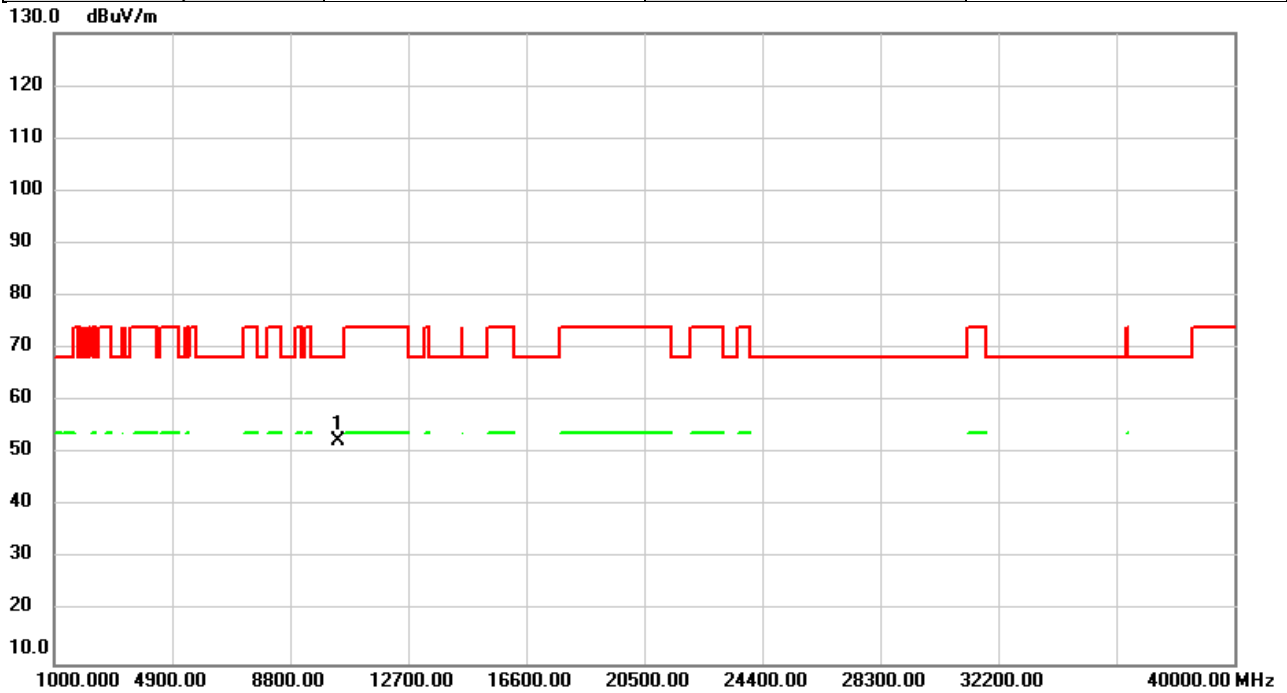
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	47.06	5.52	52.58	68.20	-15.62	peak	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/6/26
Test Frequency	5190MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

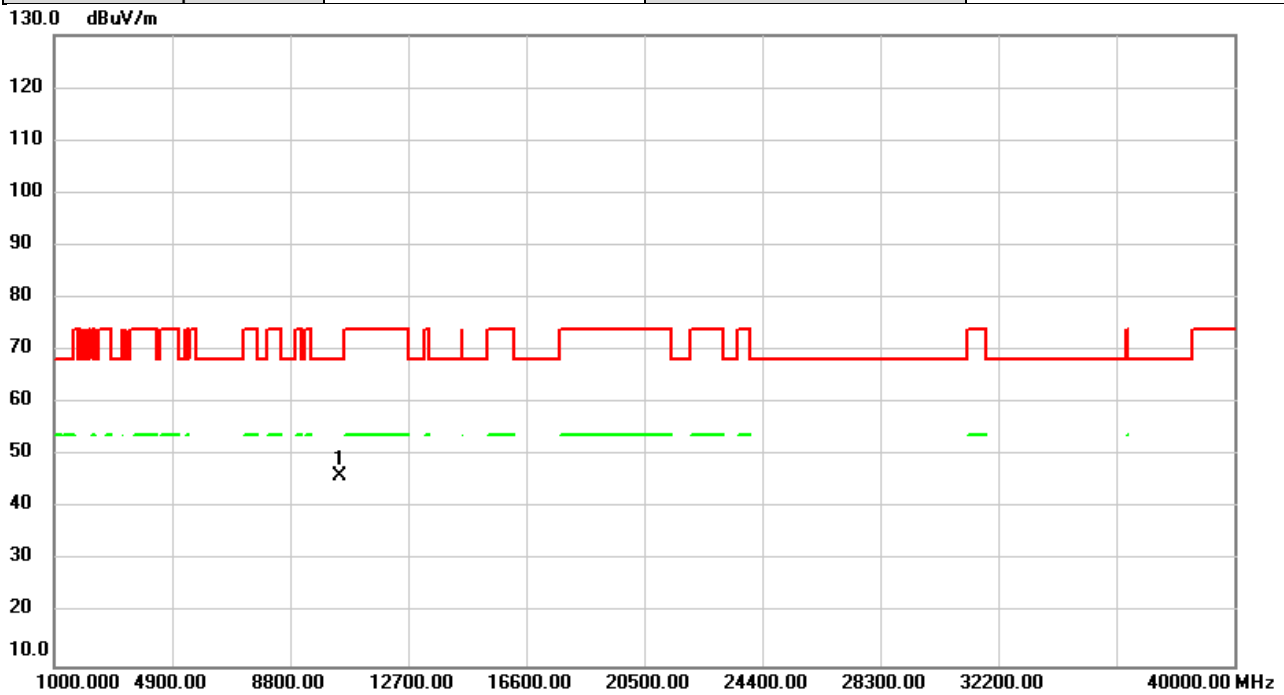


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	46.96	5.52	52.48	68.20	-15.72	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5230MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



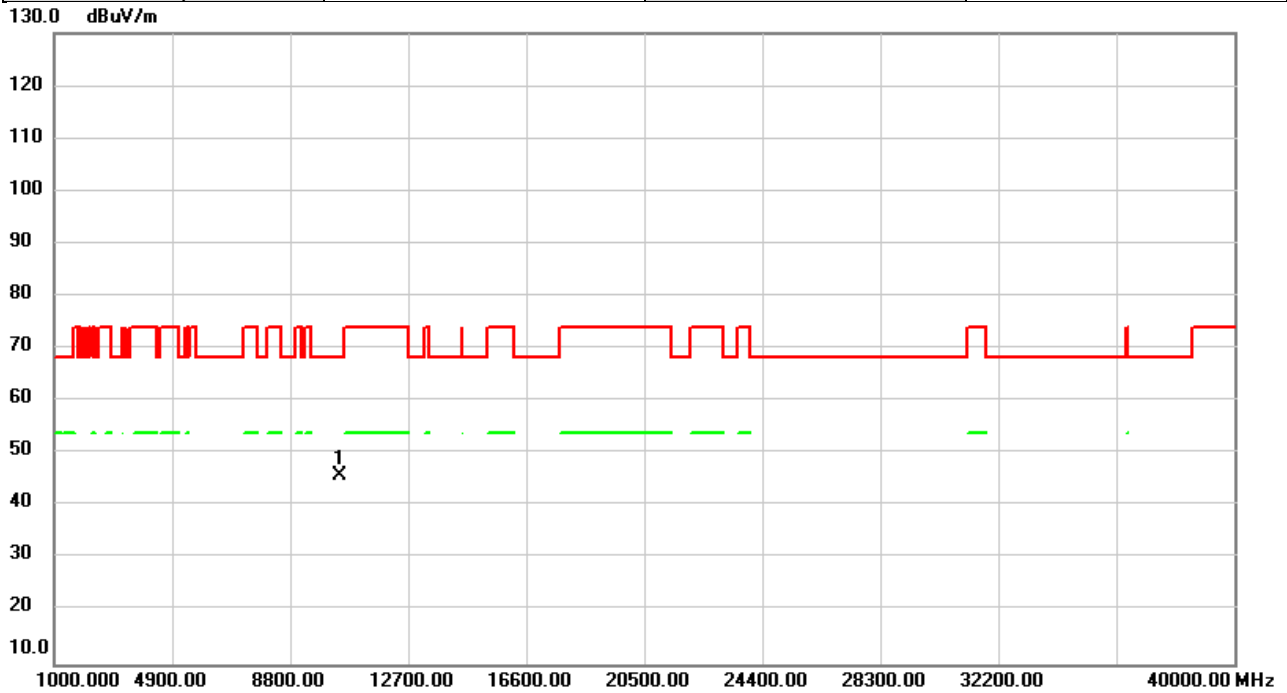
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	40.40	5.75	46.15	68.20	-22.05	peak	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5230MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

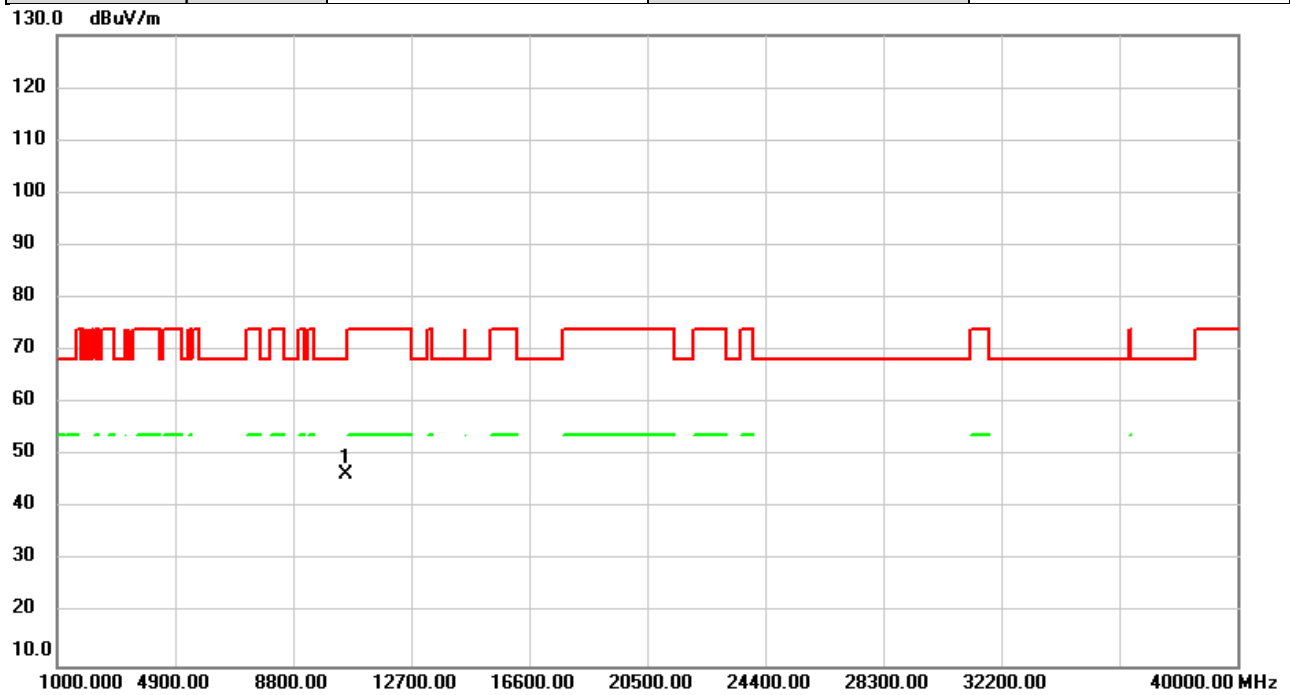


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	39.96	5.75	45.71	68.20	-22.49	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5270MHz	Polarization	Vertical
Temp	23°C	Hum.	59%



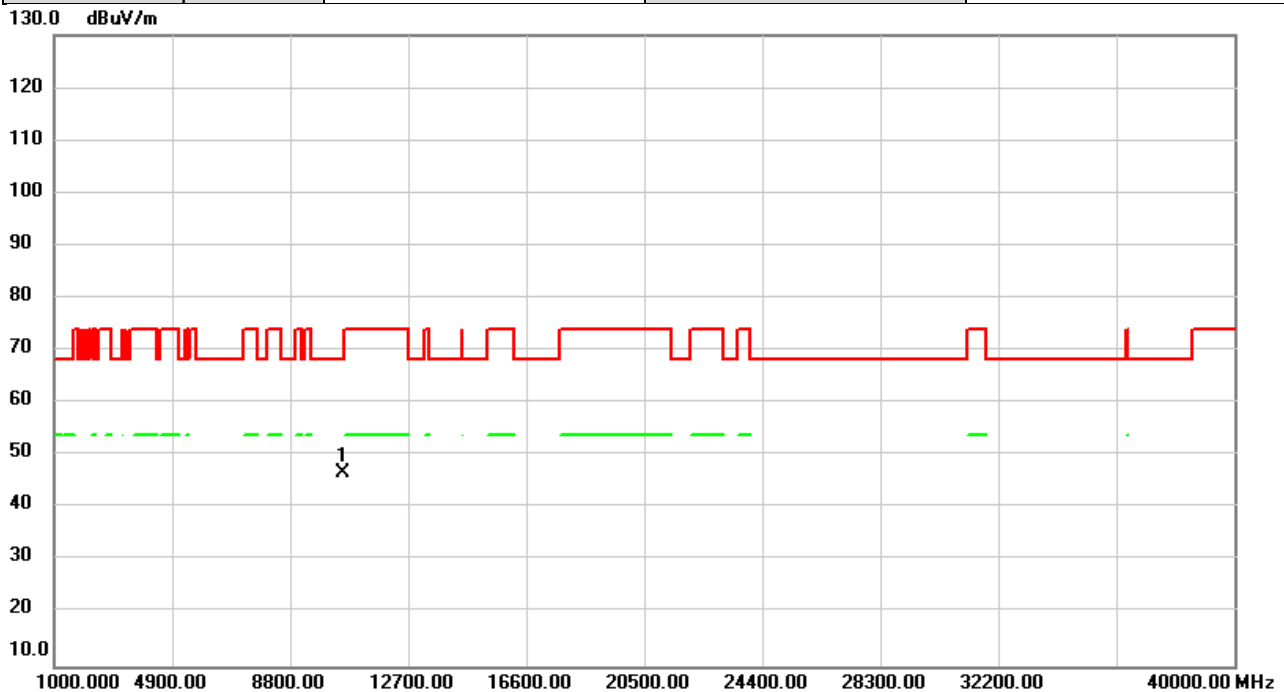
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10540.00	40.74	5.71	46.45	68.20	-21.75	peak	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5270MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

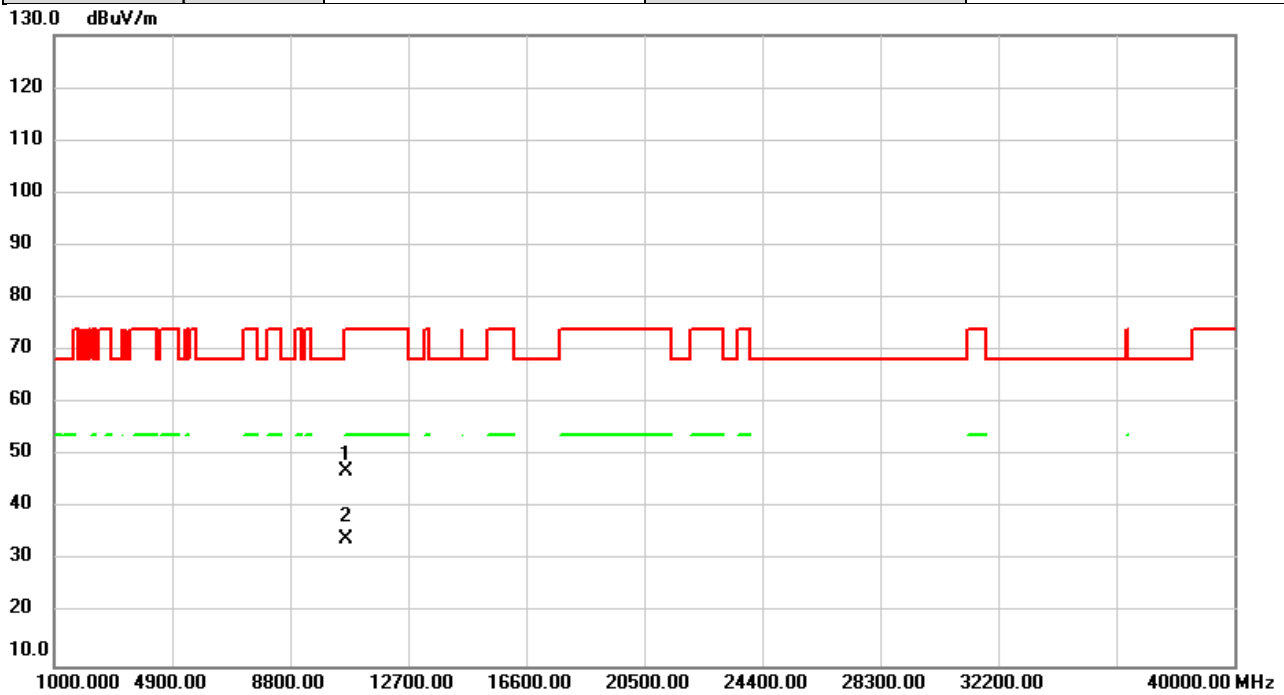


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10540.00	41.12	5.71	46.83	68.20	-21.37	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5310MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

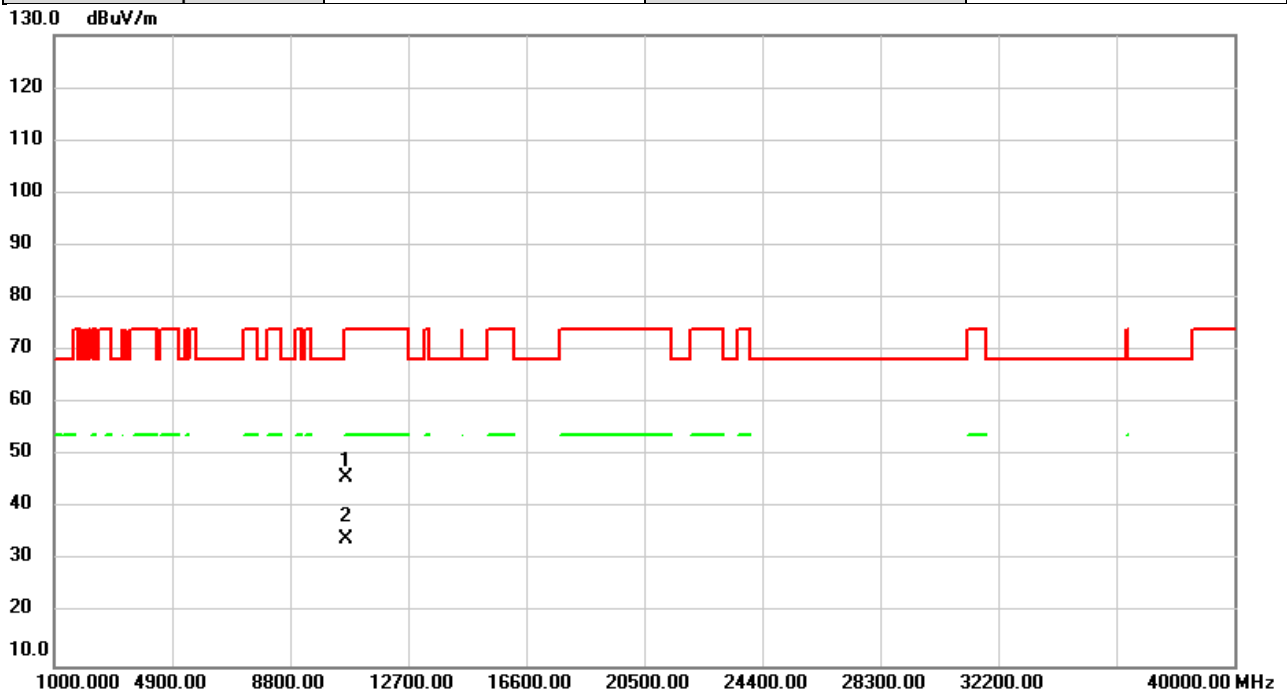


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10620.00	41.25	5.67	46.92	74.00	-27.08	peak	
2	*	10620.00	28.49	5.67	34.16	54.00	-19.84	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5310MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

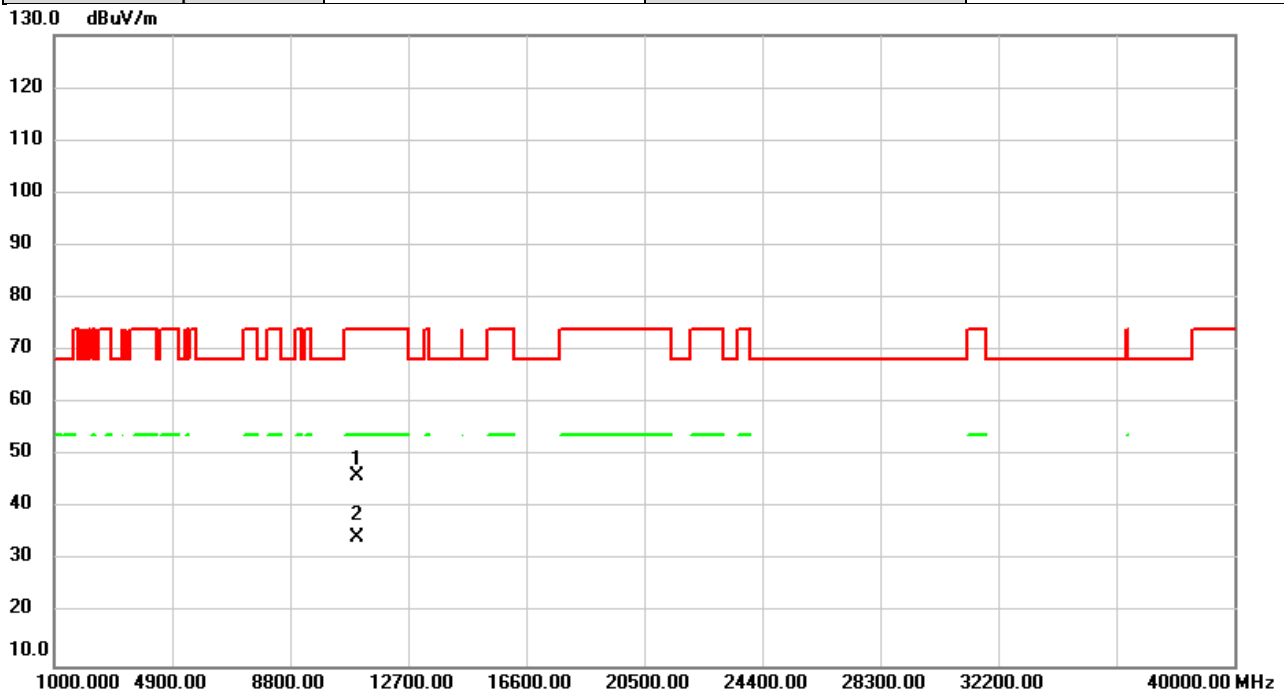


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10620.00	40.03	5.67	45.70	74.00	-28.30	peak	
2	*	10620.00	28.47	5.67	34.14	54.00	-19.86	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5510MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

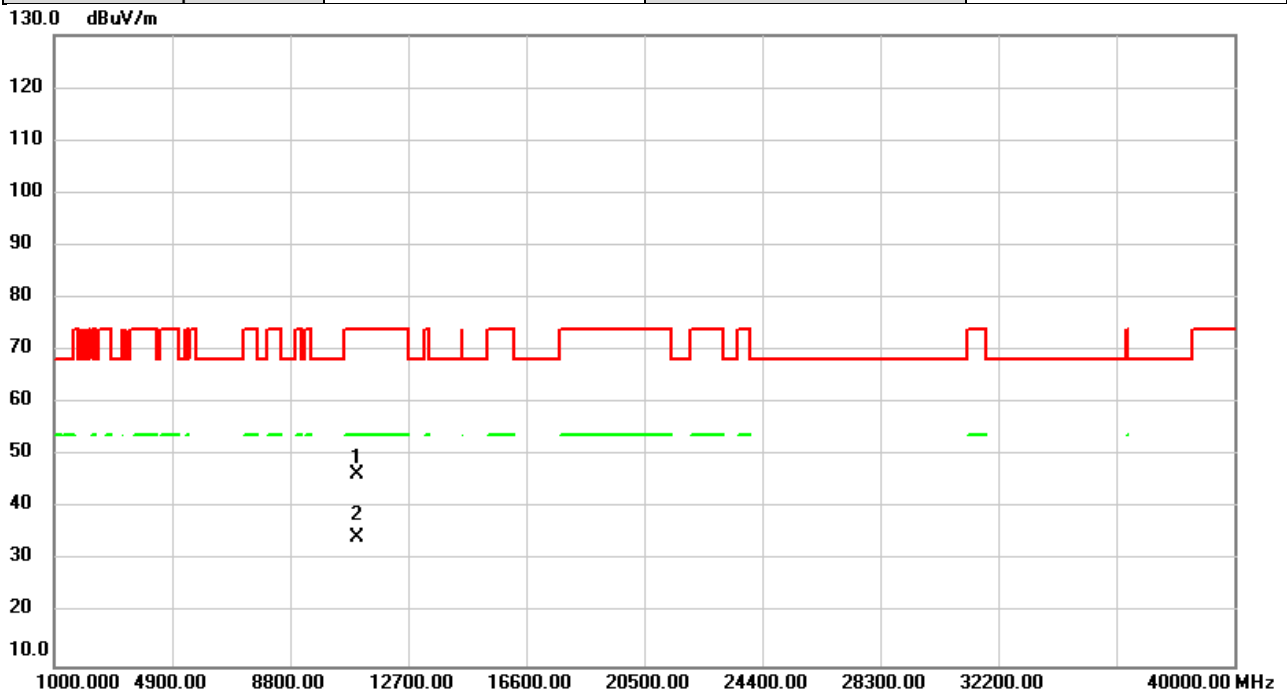


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11020.00	40.66	5.49	46.15	74.00	-27.85	peak	
2	*	11020.00	28.96	5.49	34.45	54.00	-19.55	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5510MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

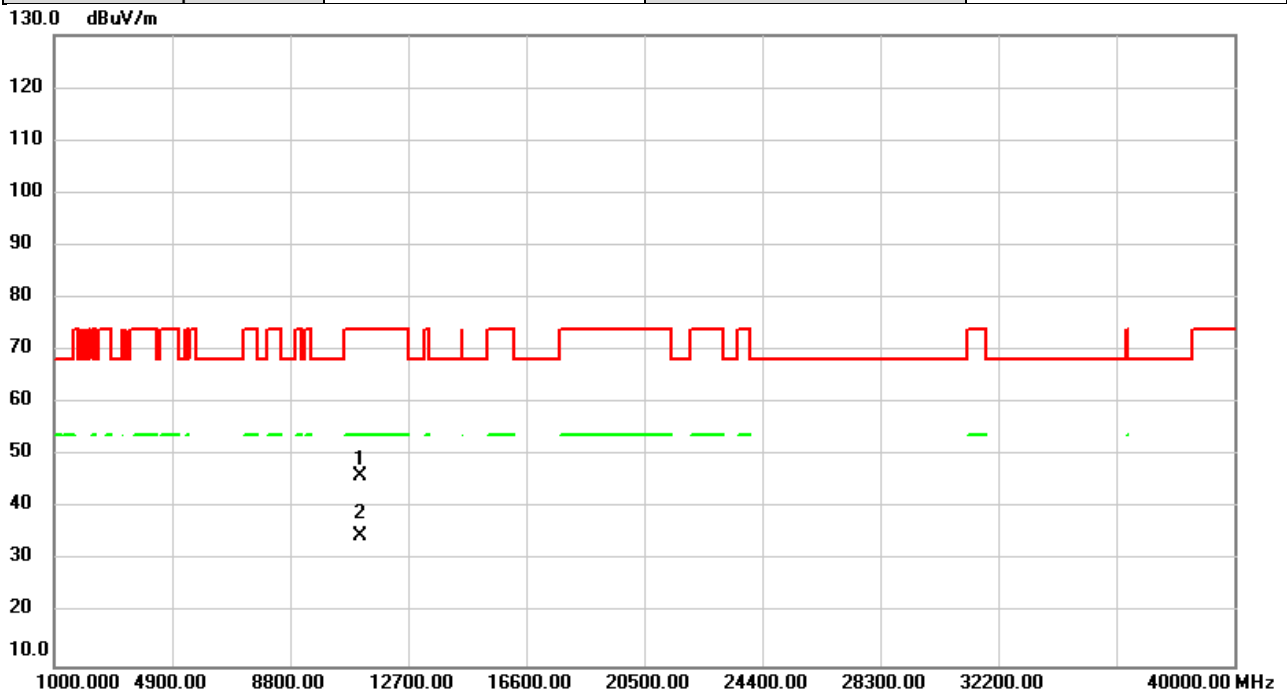


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11020.00	40.84	5.49	46.33	74.00	-27.67	peak	
2	*	11020.00	28.93	5.49	34.42	54.00	-19.58	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5550MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

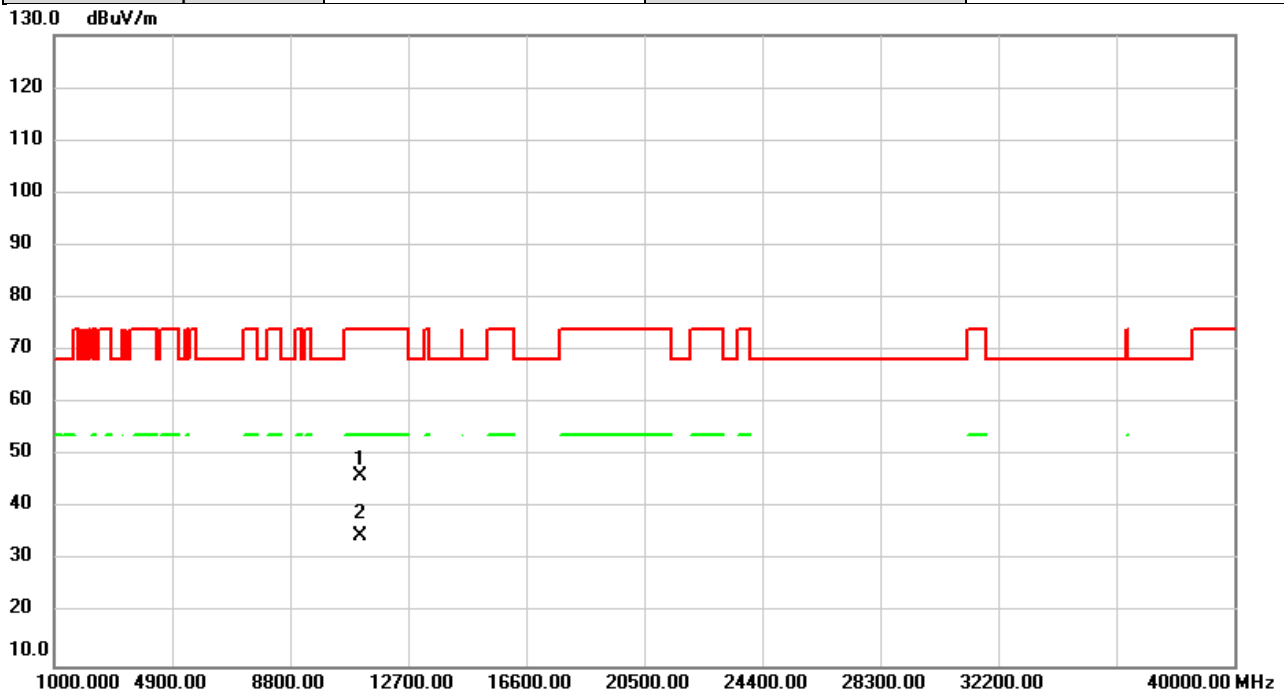


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11100.00	40.54	5.62	46.16	74.00	-27.84	peak	
2	*	11100.00	29.09	5.62	34.71	54.00	-19.29	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5550MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

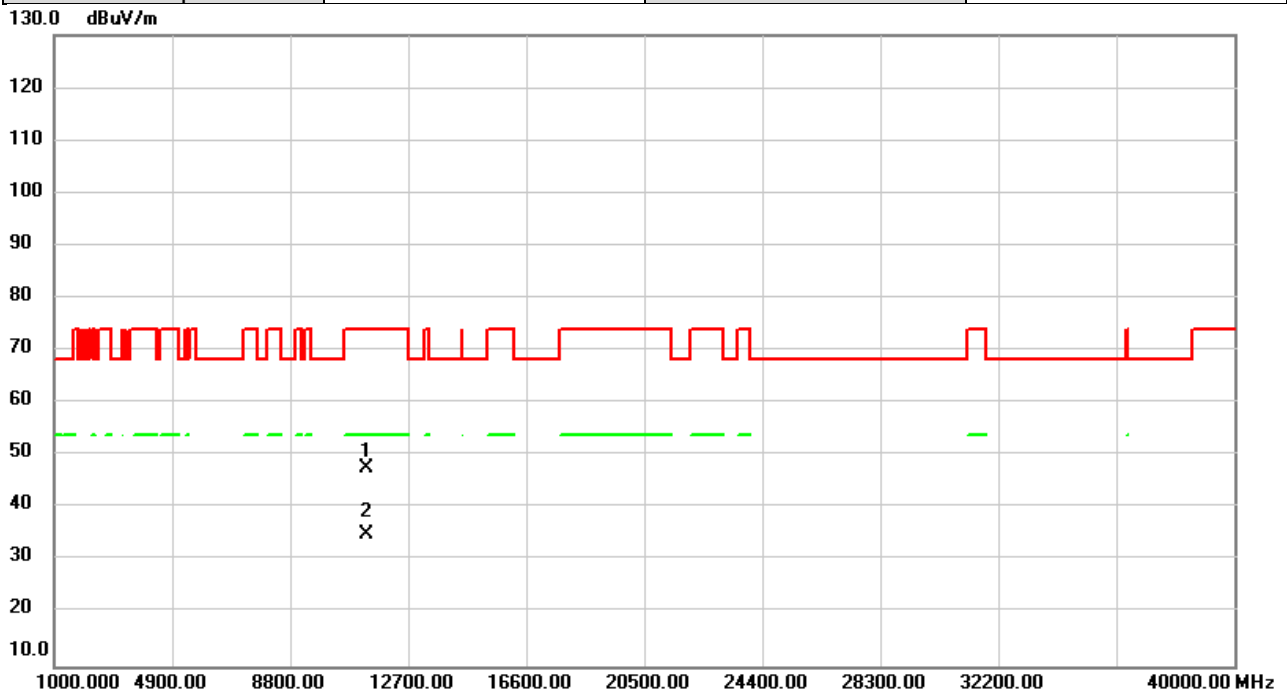


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11100.00	40.65	5.62	46.27	74.00	-27.73	peak	
2	*	11100.00	29.21	5.62	34.83	54.00	-19.17	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5670MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

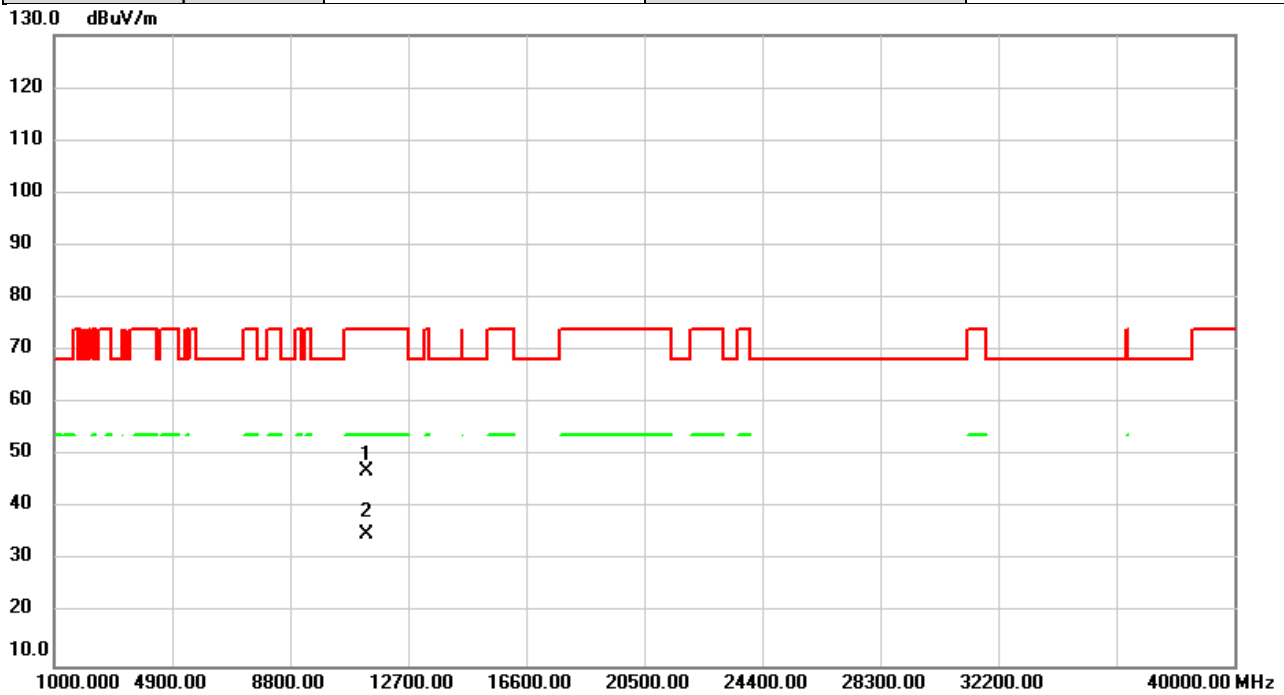


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11340.00	41.56	6.01	47.57	74.00	-26.43	peak	
2	*	11340.00	29.10	6.01	35.11	54.00	-18.89	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5670MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

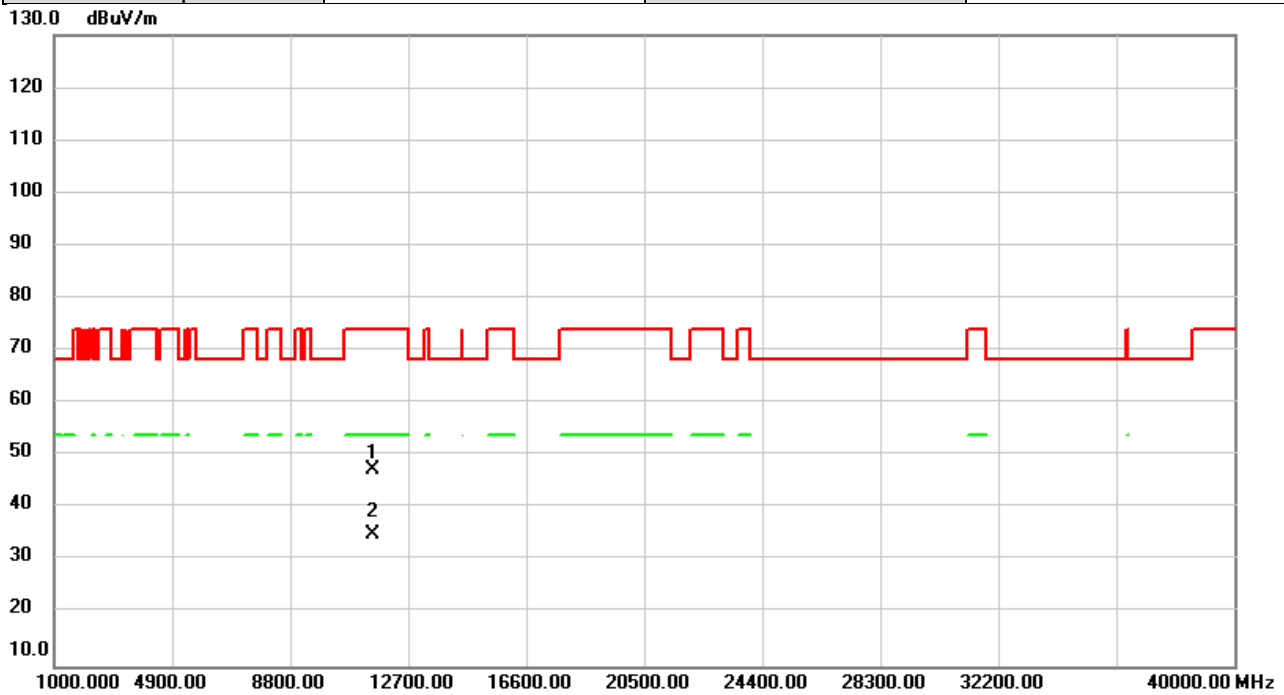


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11340.00	41.12	6.01	47.13	74.00	-26.87	peak	
2	*	11340.00	29.16	6.01	35.17	54.00	-18.83	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5755MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

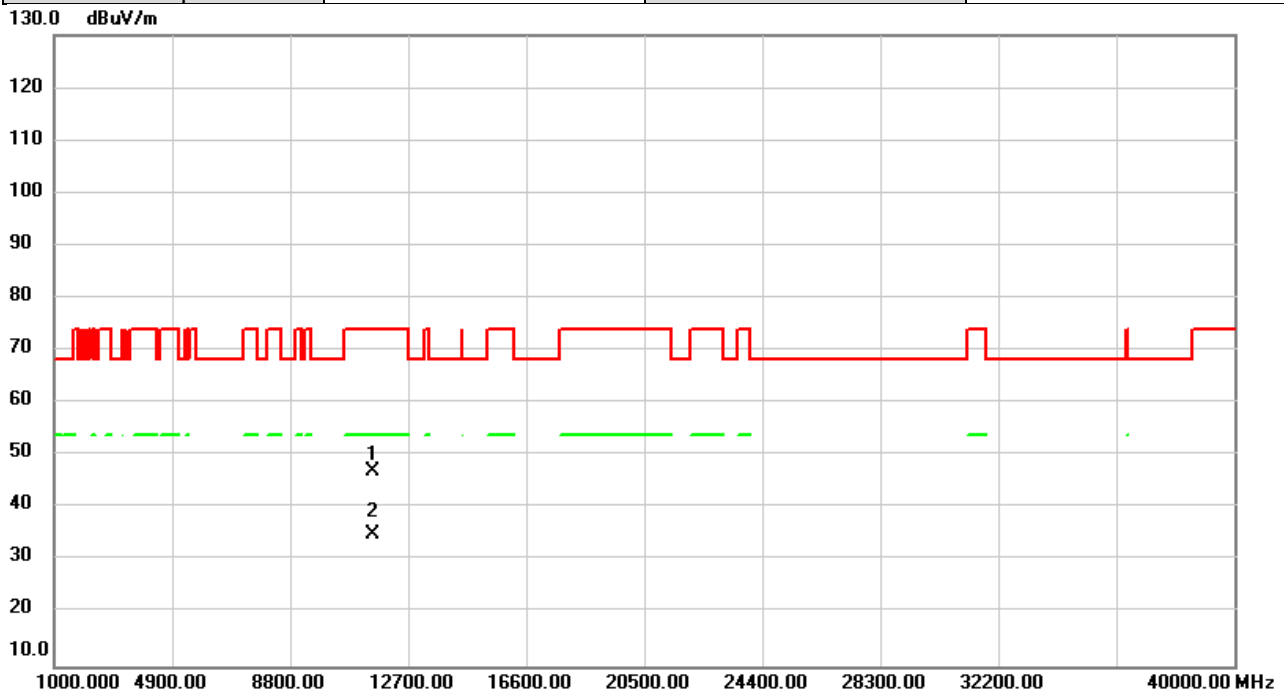


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11510.00	41.08	6.29	47.37	74.00	-26.63	peak	
2	*	11510.00	28.65	6.29	34.94	54.00	-19.06	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5755MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

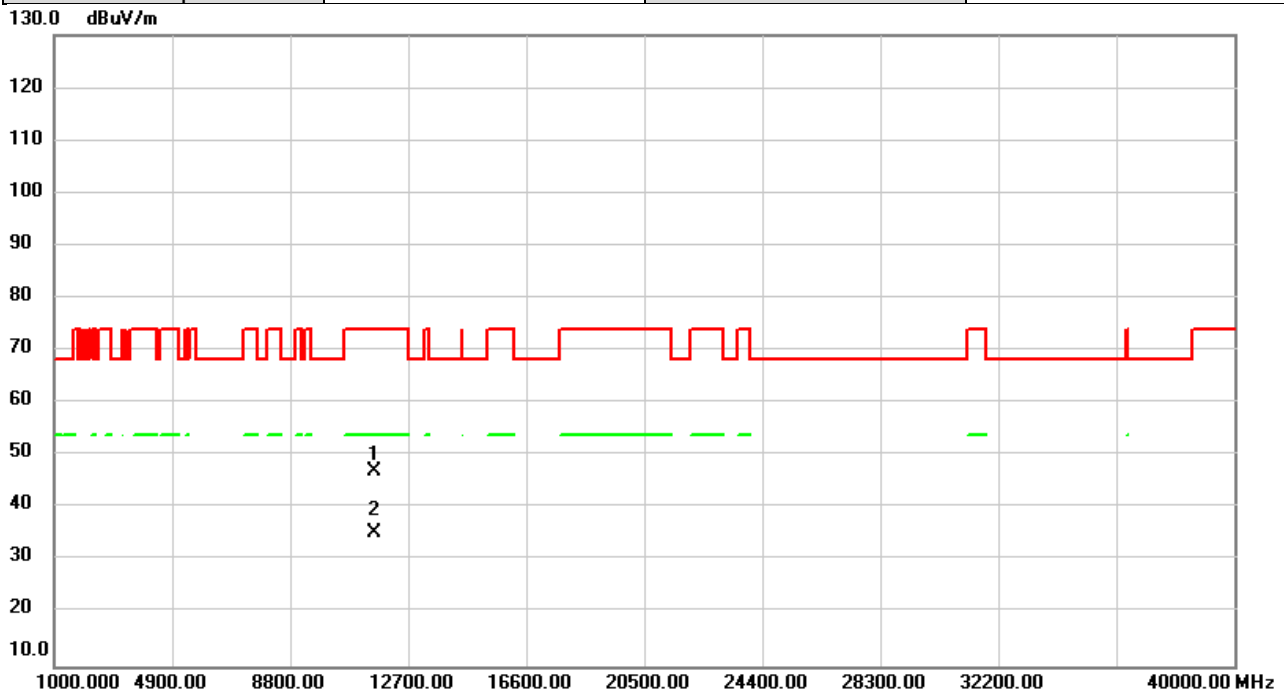


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11510.00	40.68	6.29	46.97	74.00	-27.03	peak	
2	*	11510.00	28.63	6.29	34.92	54.00	-19.08	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5795MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

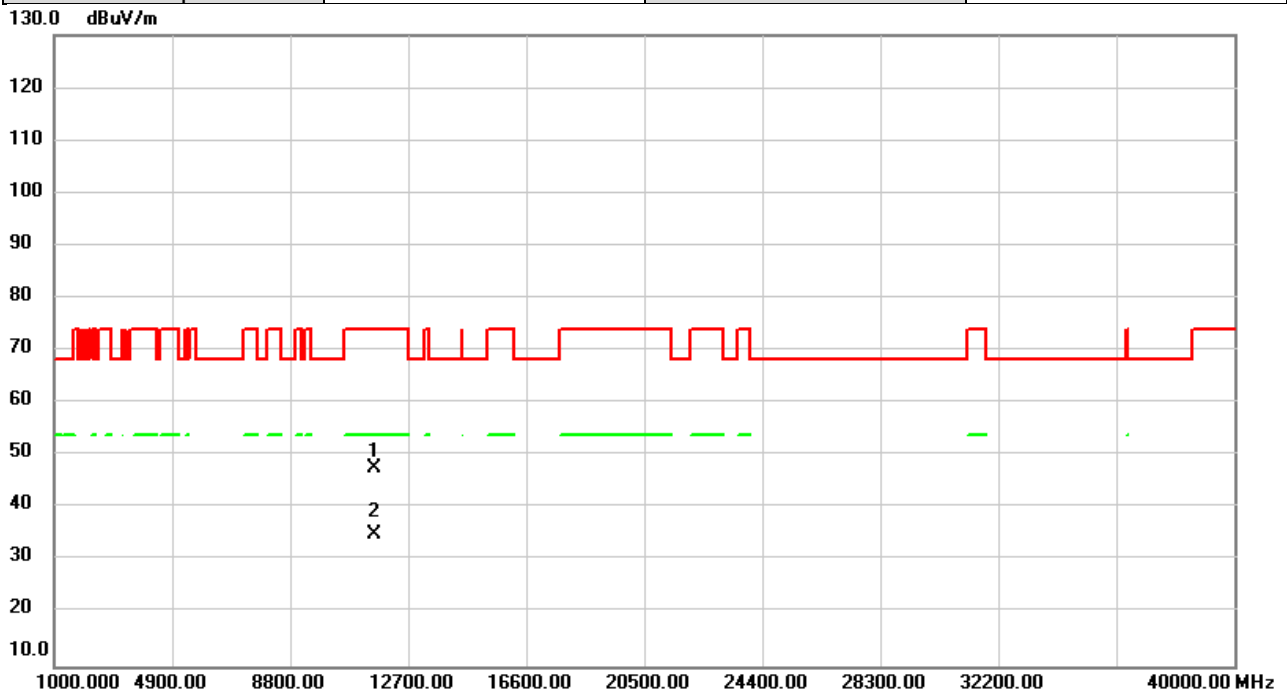


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11590.00	40.77	6.33	47.10	74.00	-26.90	peak	
2	*	11590.00	28.94	6.33	35.27	54.00	-18.73	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/12/26
Test Frequency	5795MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11590.00	41.39	6.33	47.72	74.00	-26.28	peak	
2	*	11590.00	28.83	6.33	35.16	54.00	-18.84	AVG	

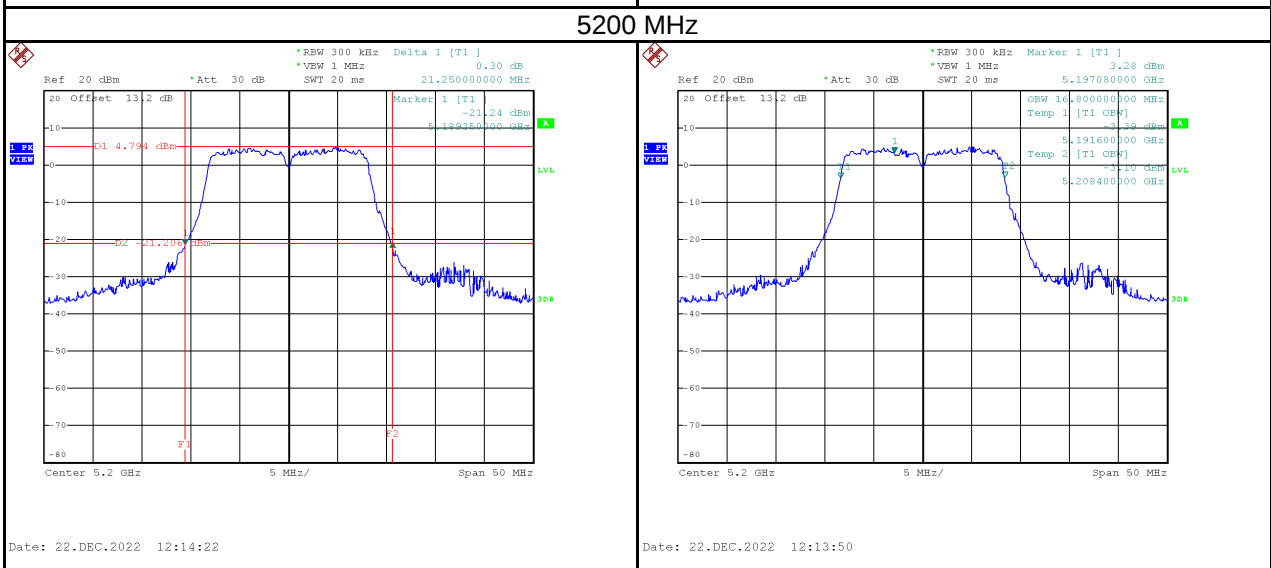
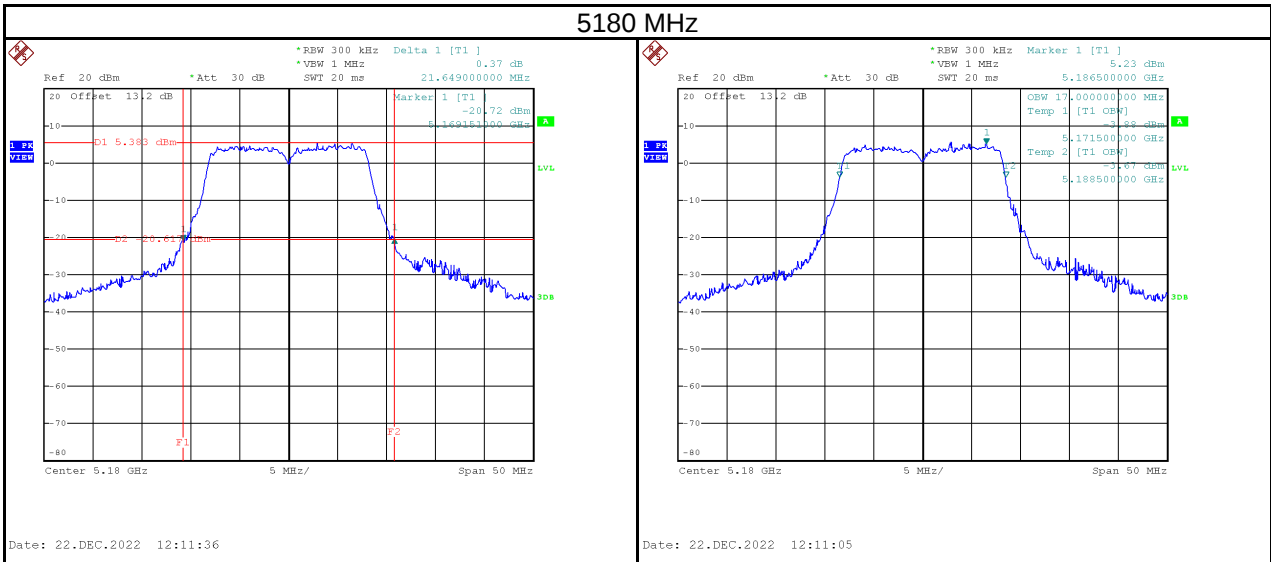
REMARKS:

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

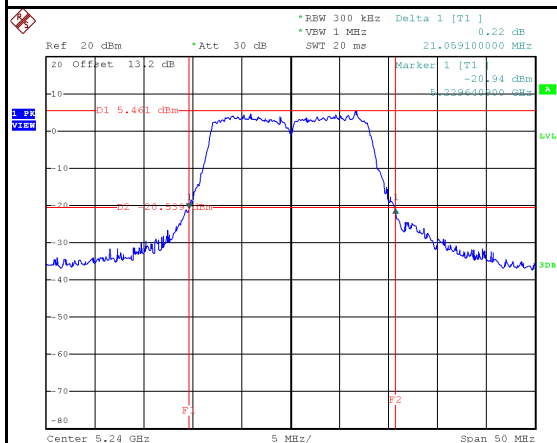
APPENDIX D BANDWIDTH

Test Mode	IEEE 802.11a
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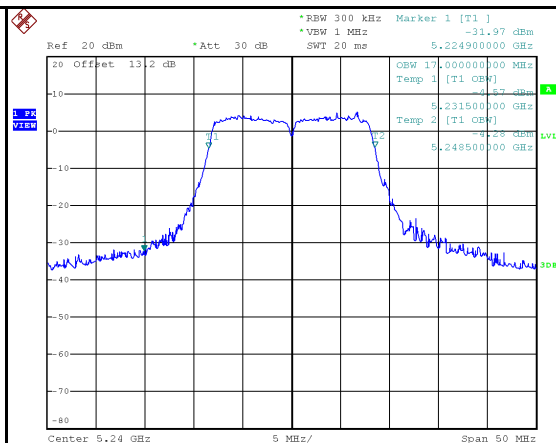
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5180	21.65	17.00	No limit
5200	21.25	16.80	No limit
5240	21.06	17.00	No limit



5240 MHz

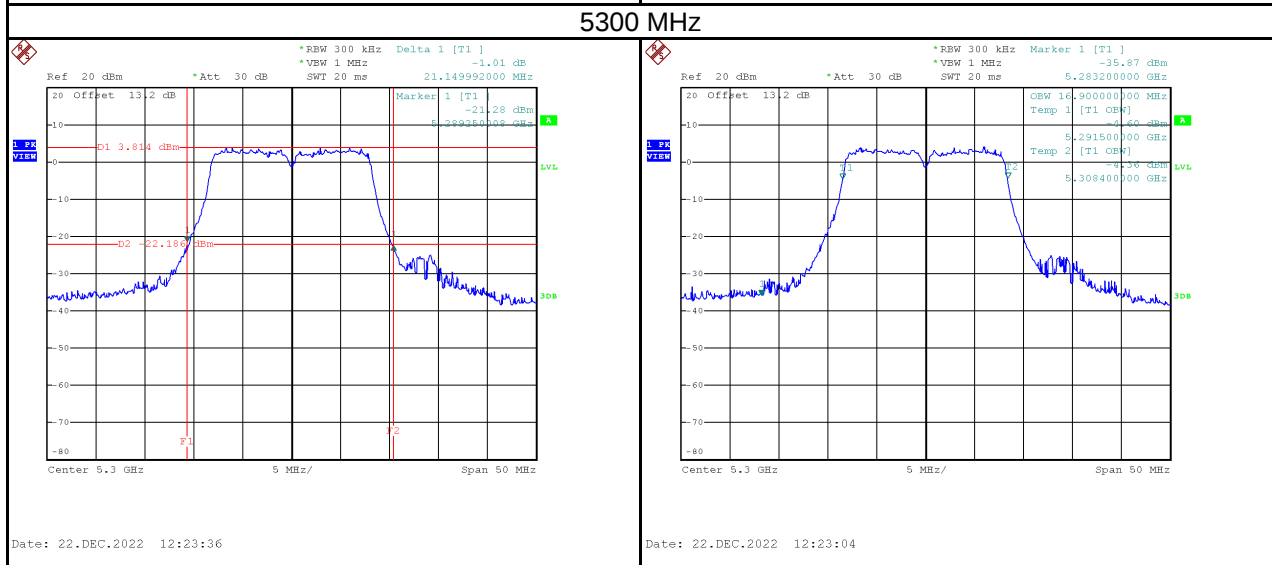
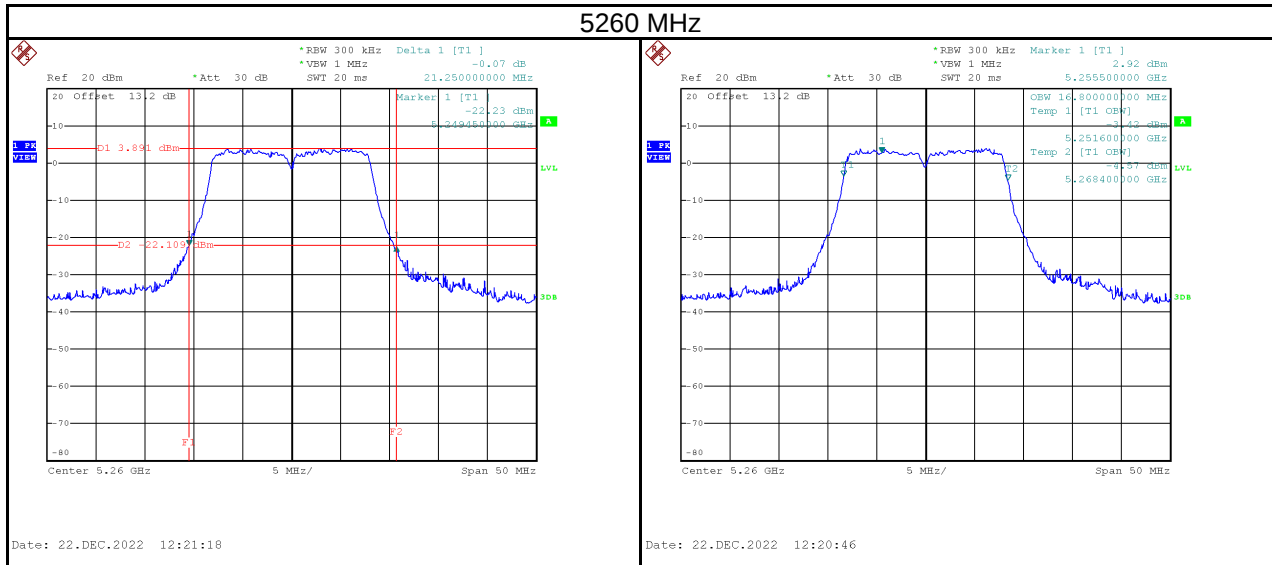


Date: 22.DEC.2022 12:19:55

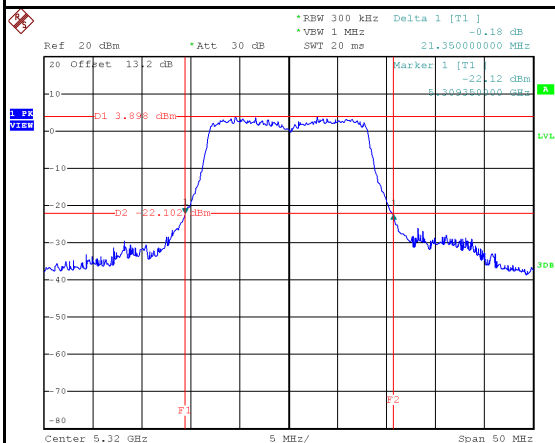


Date: 22.DEC.2022 12:19:23

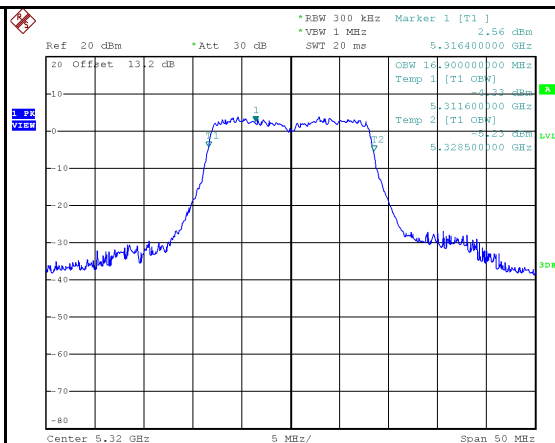
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5260	21.25	16.80	No limit
5300	21.15	16.90	No limit
5320	21.35	16.90	No limit



5320 MHz

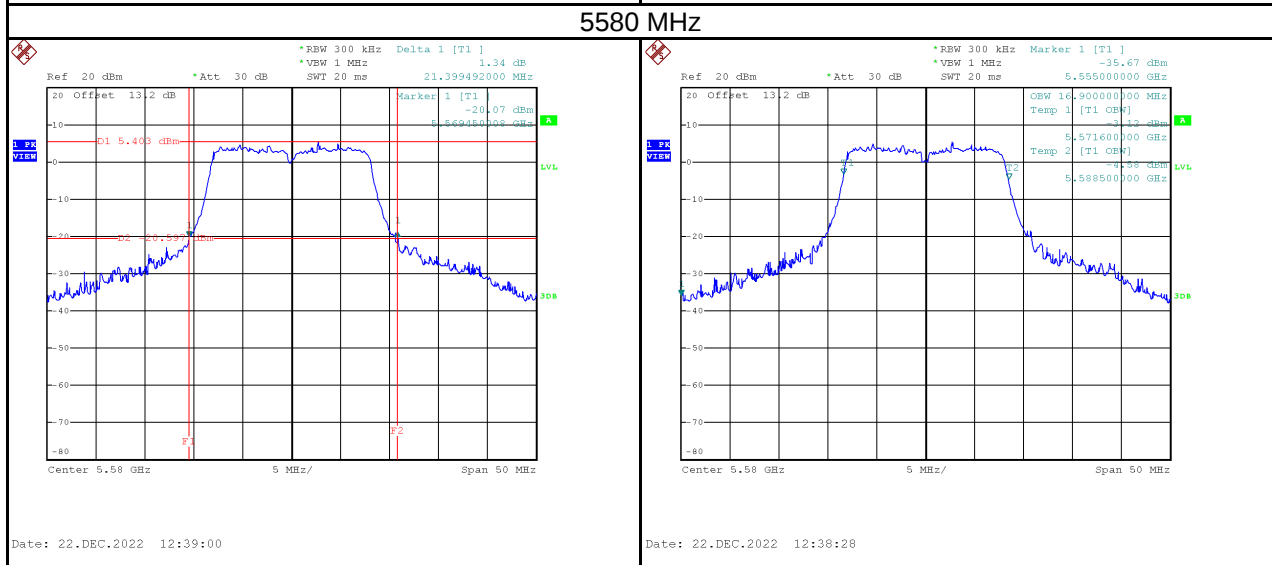
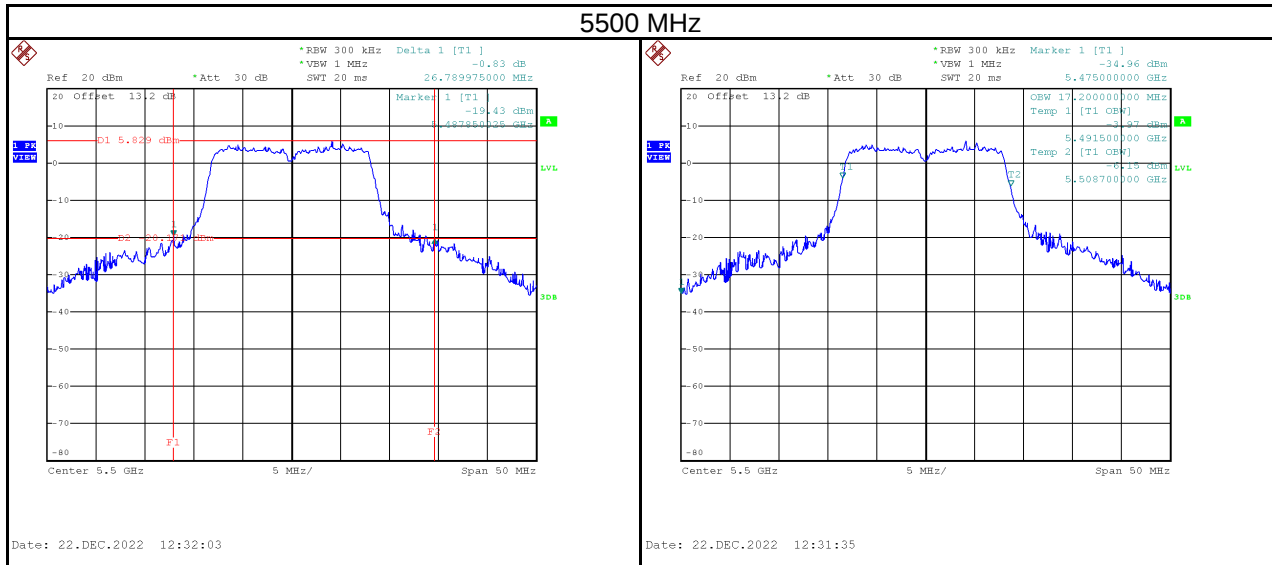


Date: 22.DEC.2022 12:26:43

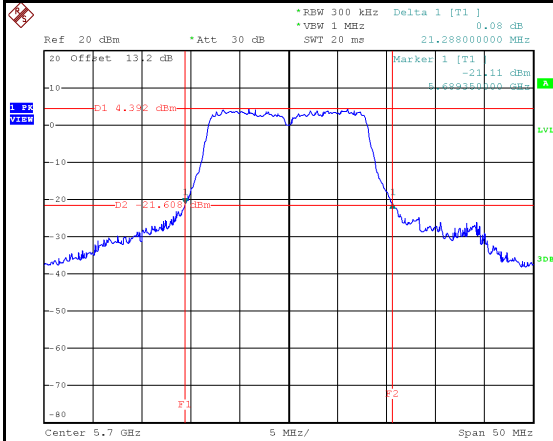


Date: 22.DEC.2022 12:26:12

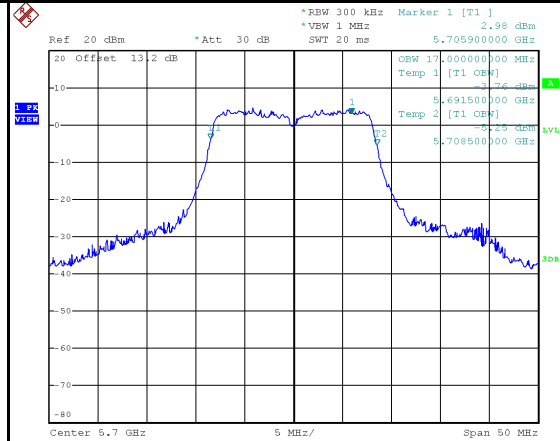
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5500	26.79	17.20	No limit
5580	21.40	16.90	No limit
5700	21.29	17.00	No limit



5700 MHz



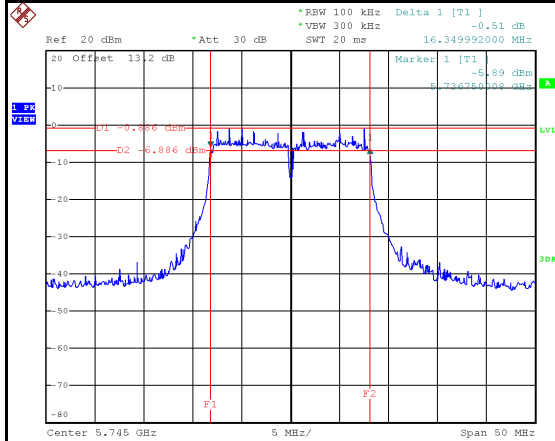
Date: 22.DEC.2022 12:42:27



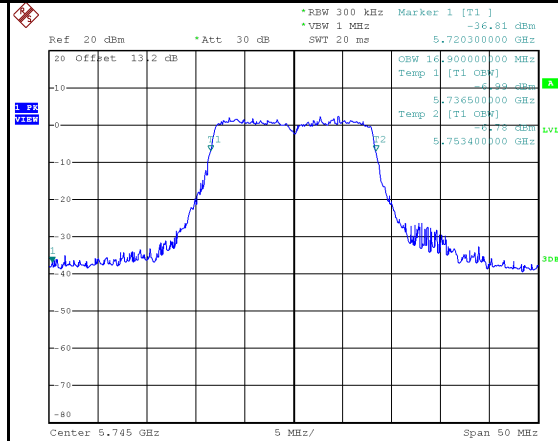
Date: 22.DEC.2022 12:41:55

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
5745	16.35	16.90	500	Pass
5785	16.45	16.90	500	Pass
5825	16.35	16.90	500	Pass

5745 MHz

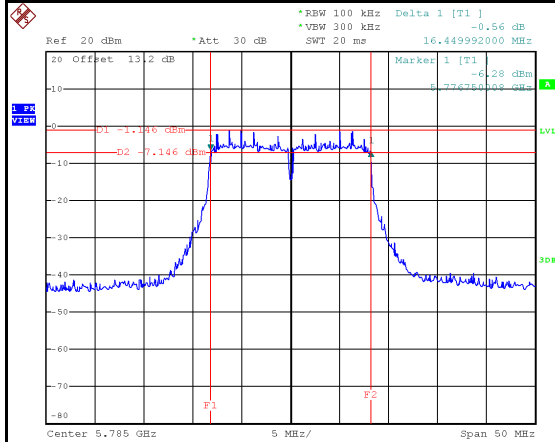


Date: 22.DEC.2022 12:45:29

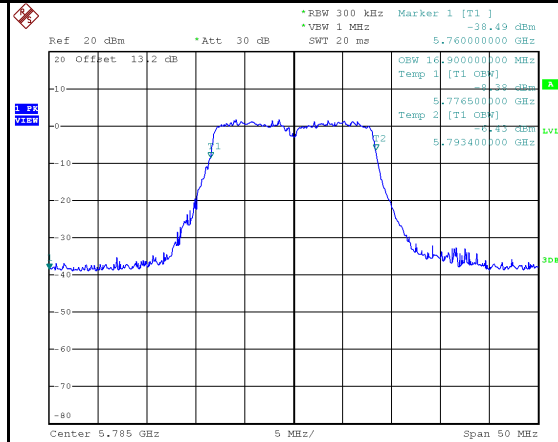


Date: 22.DEC.2022 12:44:54

5785 MHz

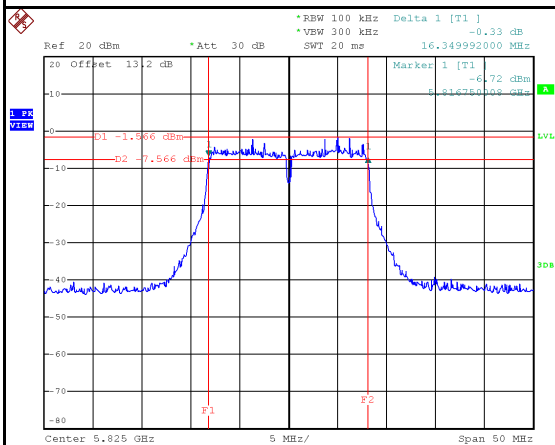


Date: 22.DEC.2022 12:48:59

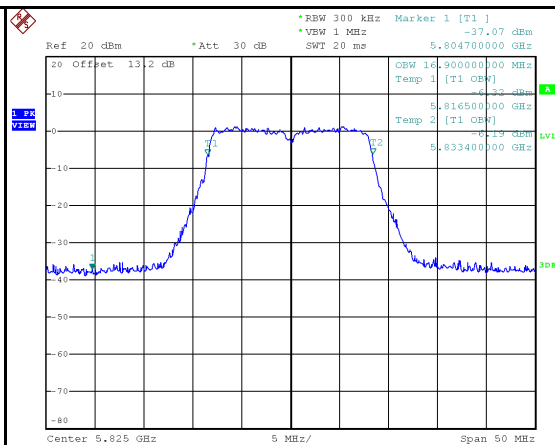


Date: 22.DEC.2022 12:48:24

5825 MHz



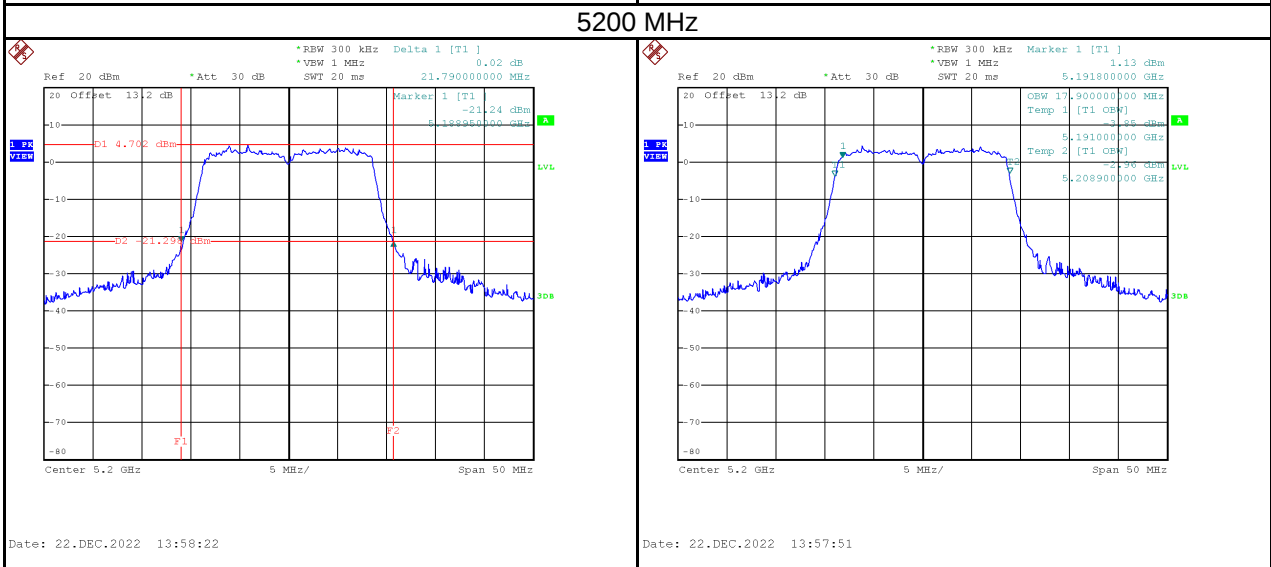
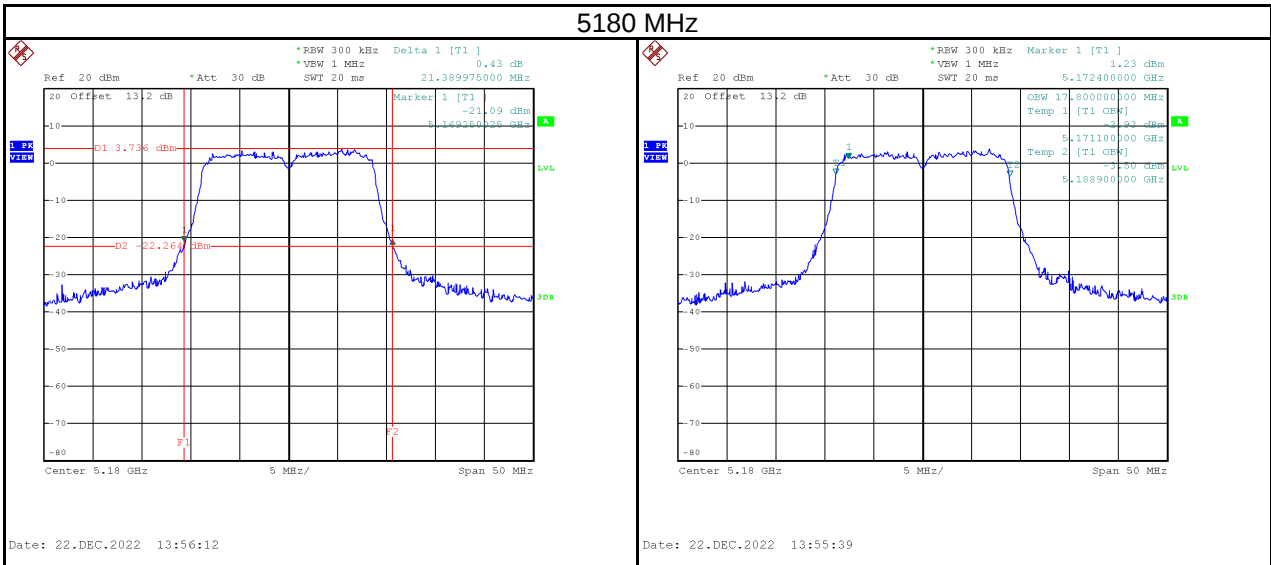
Date: 22.DEC.2022 12:52:01



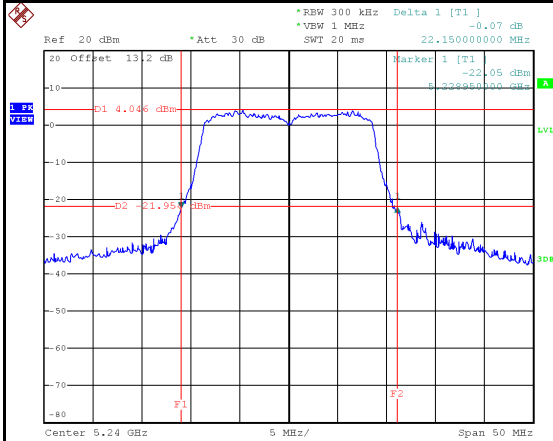
Date: 22.DEC.2022 12:51:26

Test Mode	IEEE 802.11n (HT20)
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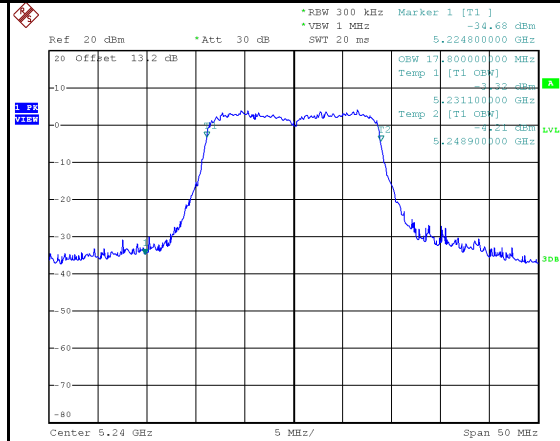
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5180	21.39	17.80	No limit
5200	21.79	17.90	No limit
5240	22.15	17.80	No limit



5240 MHz



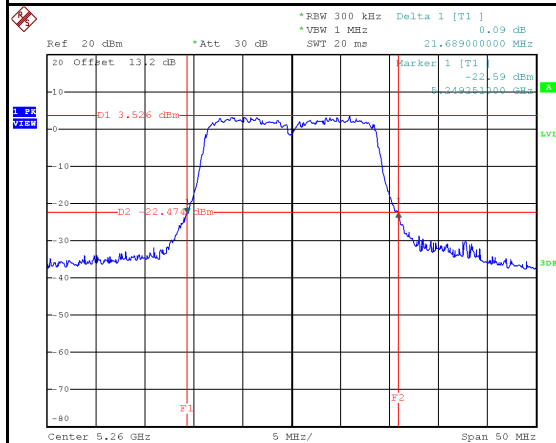
Date: 22.DEC.2022 14:02:22



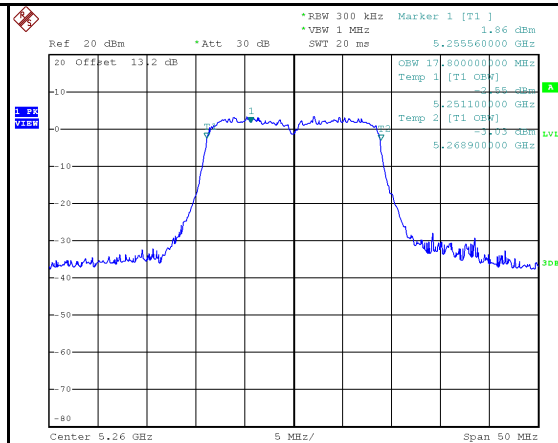
Date: 22.DEC.2022 14:01:52

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5260	21.69	17.80	No limit
5300	21.95	17.90	No limit
5320	21.50	17.80	No limit

5260 MHz

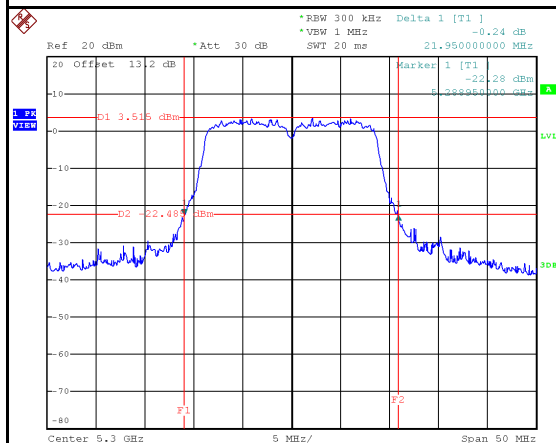


Date: 22.DEC.2022 14:05:19

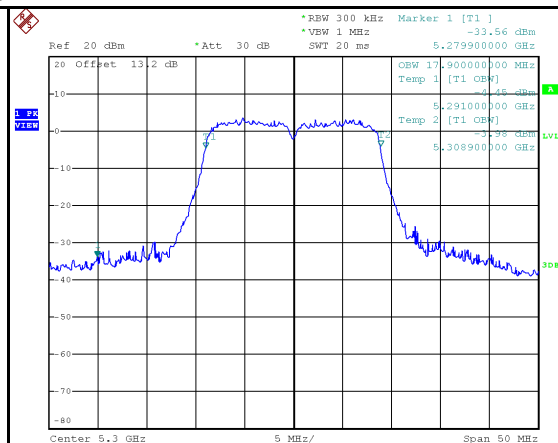


Date: 22.DEC.2022 14:04:48

5300 MHz

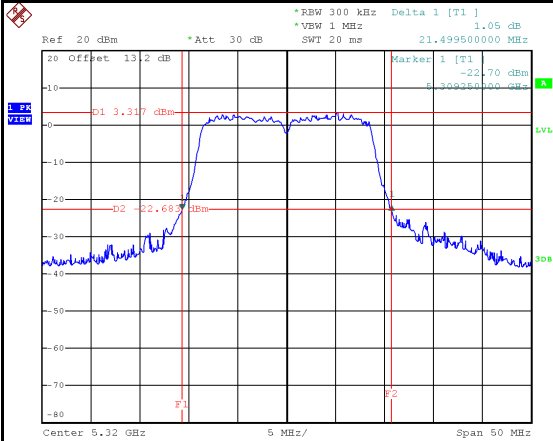


Date: 22.DEC.2022 14:06:52

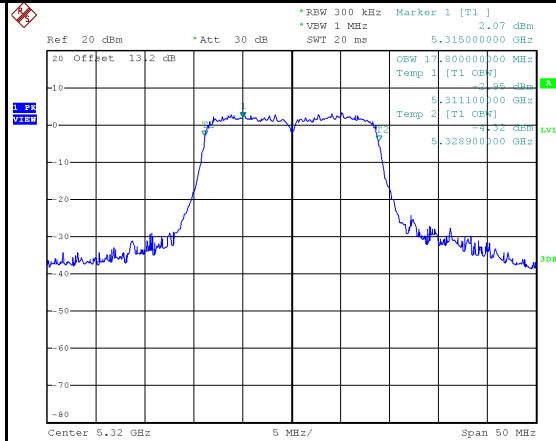


Date: 22.DEC.2022 14:06:21

5320 MHz



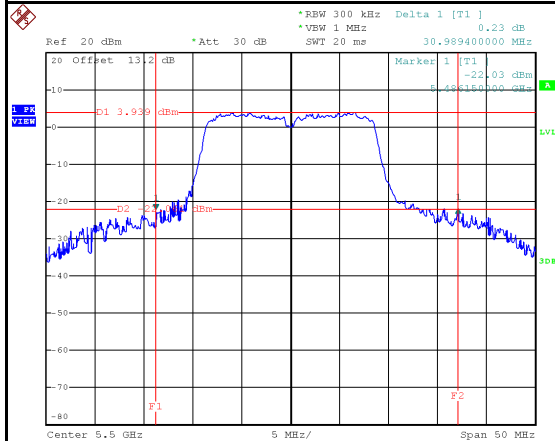
Date: 22.DEC.2022 14:08:16



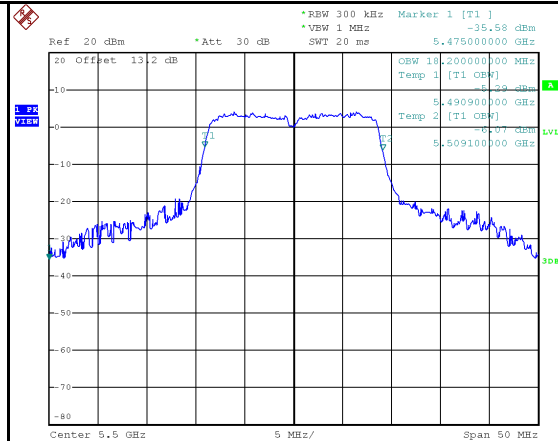
Date: 22.DEC.2022 14:07:44

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5500	30.99	18.20	No limit
5580	24.91	18.00	No limit
5700	21.70	17.90	No limit

5500 MHz

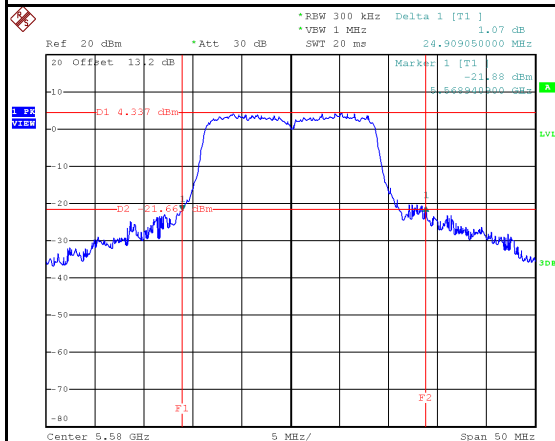


Date: 22.DEC.2022 14:09:47

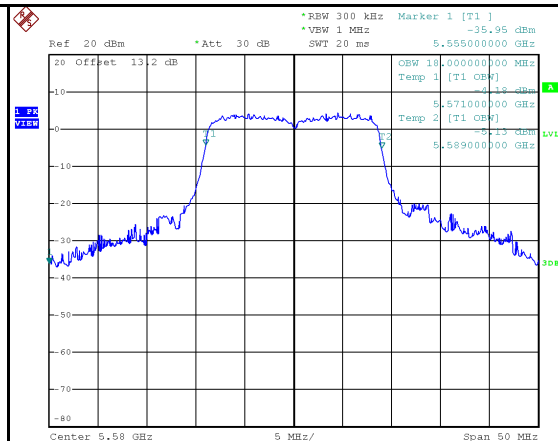


Date: 22.DEC.2022 14:09:24

5580 MHz

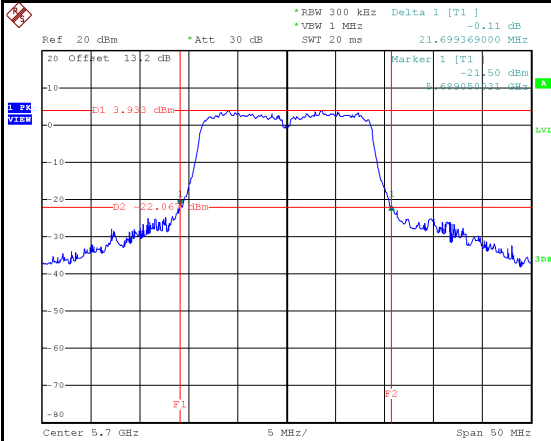


Date: 22.DEC.2022 14:11:48

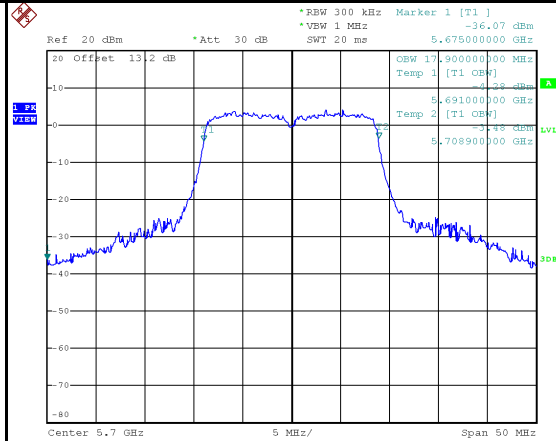


Date: 22.DEC.2022 14:11:20

5700 MHz



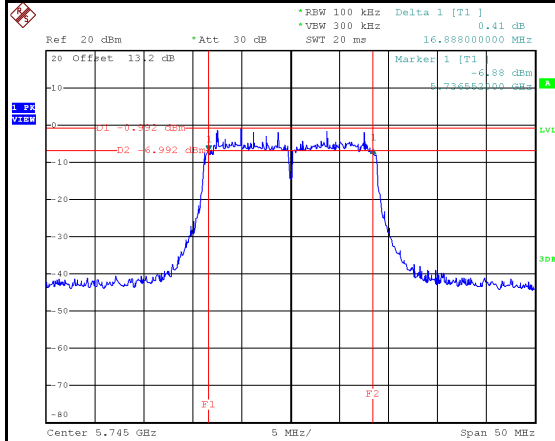
Date: 22.DEC.2022 14:13:12



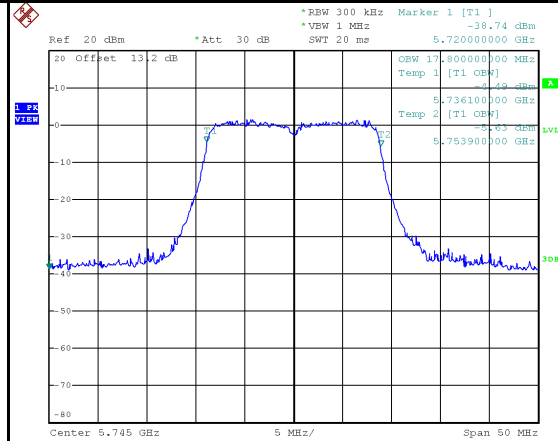
Date: 22.DEC.2022 14:12:40

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
5745	16.89	17.80	500	Pass
5785	16.75	17.80	500	Pass
5825	16.99	17.90	500	Pass

5745 MHz

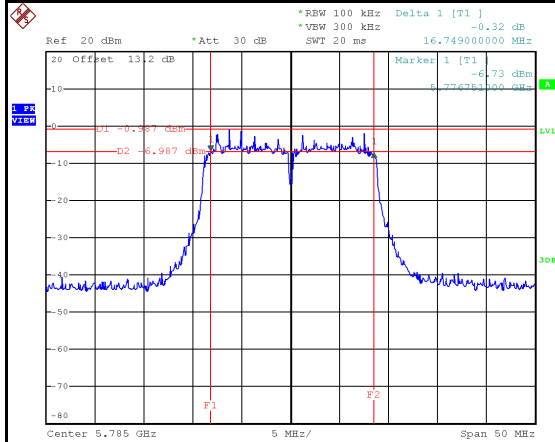


Date: 22.DEC.2022 14:15:16

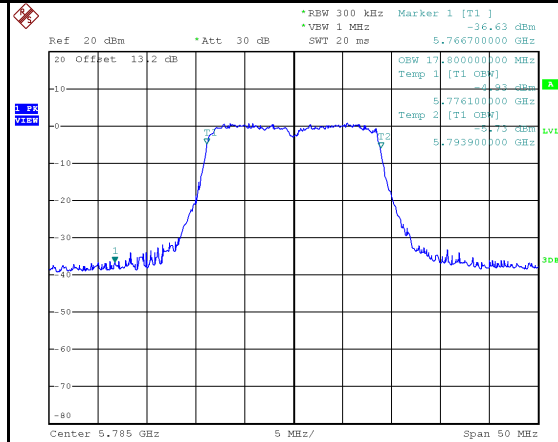


Date: 22.DEC.2022 14:14:40

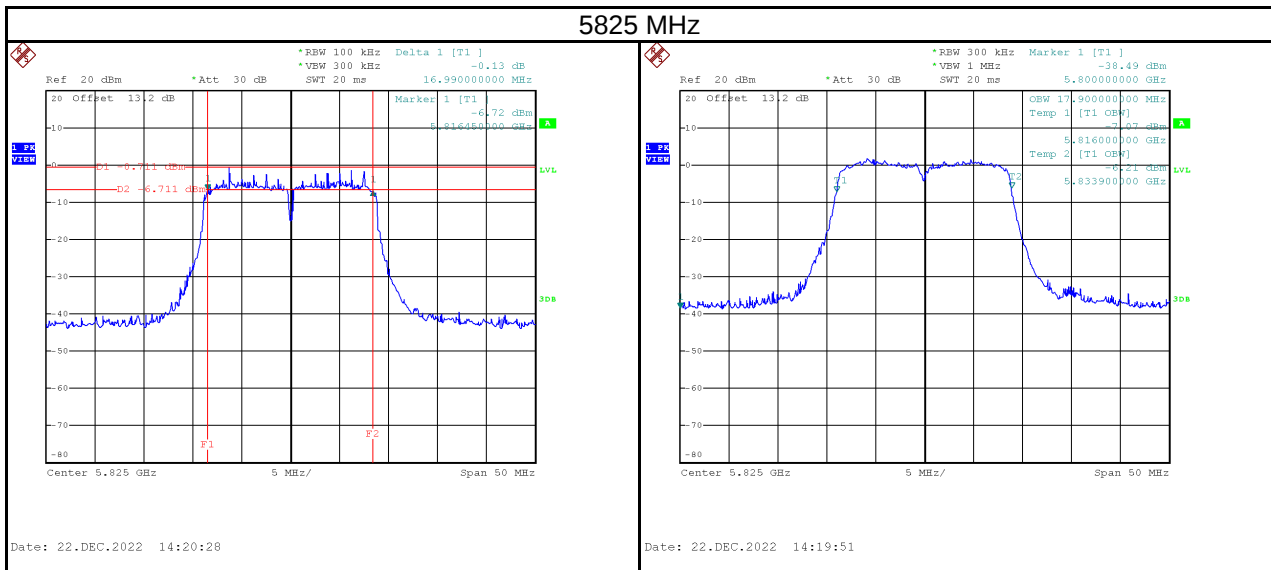
5785 MHz



Date: 22.DEC.2022 14:18:08

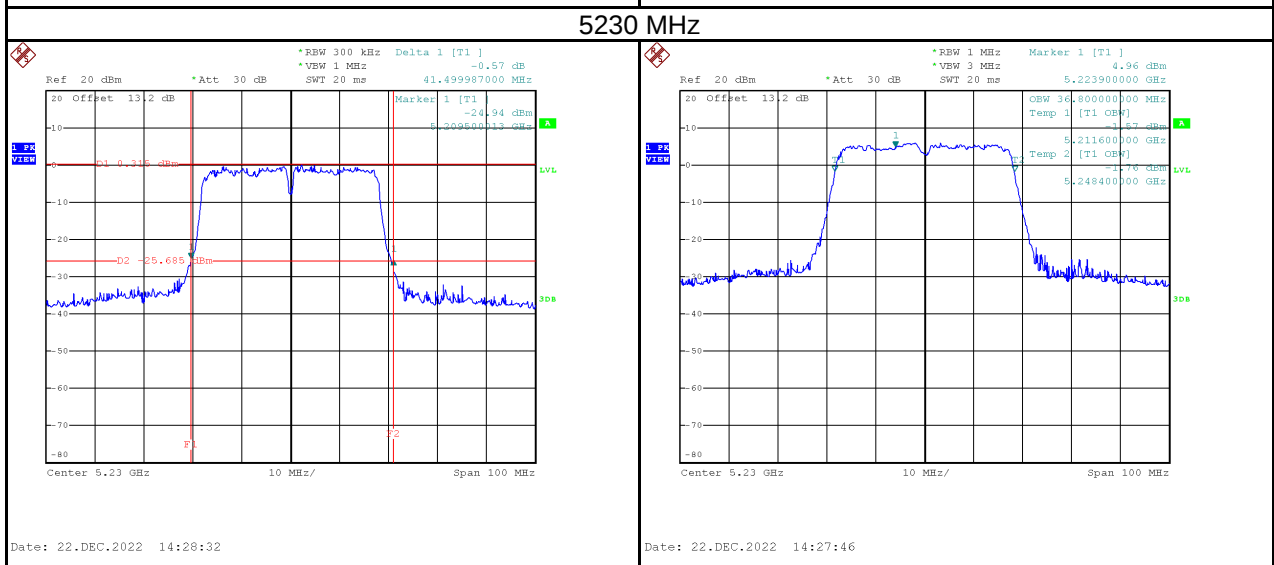
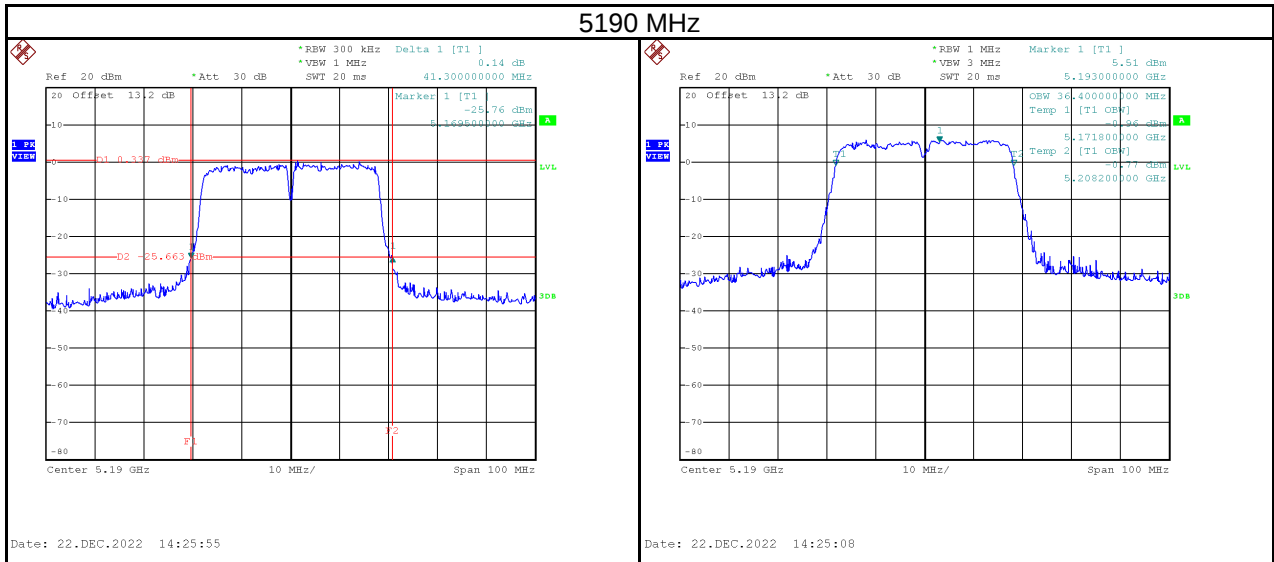


Date: 22.DEC.2022 14:17:32

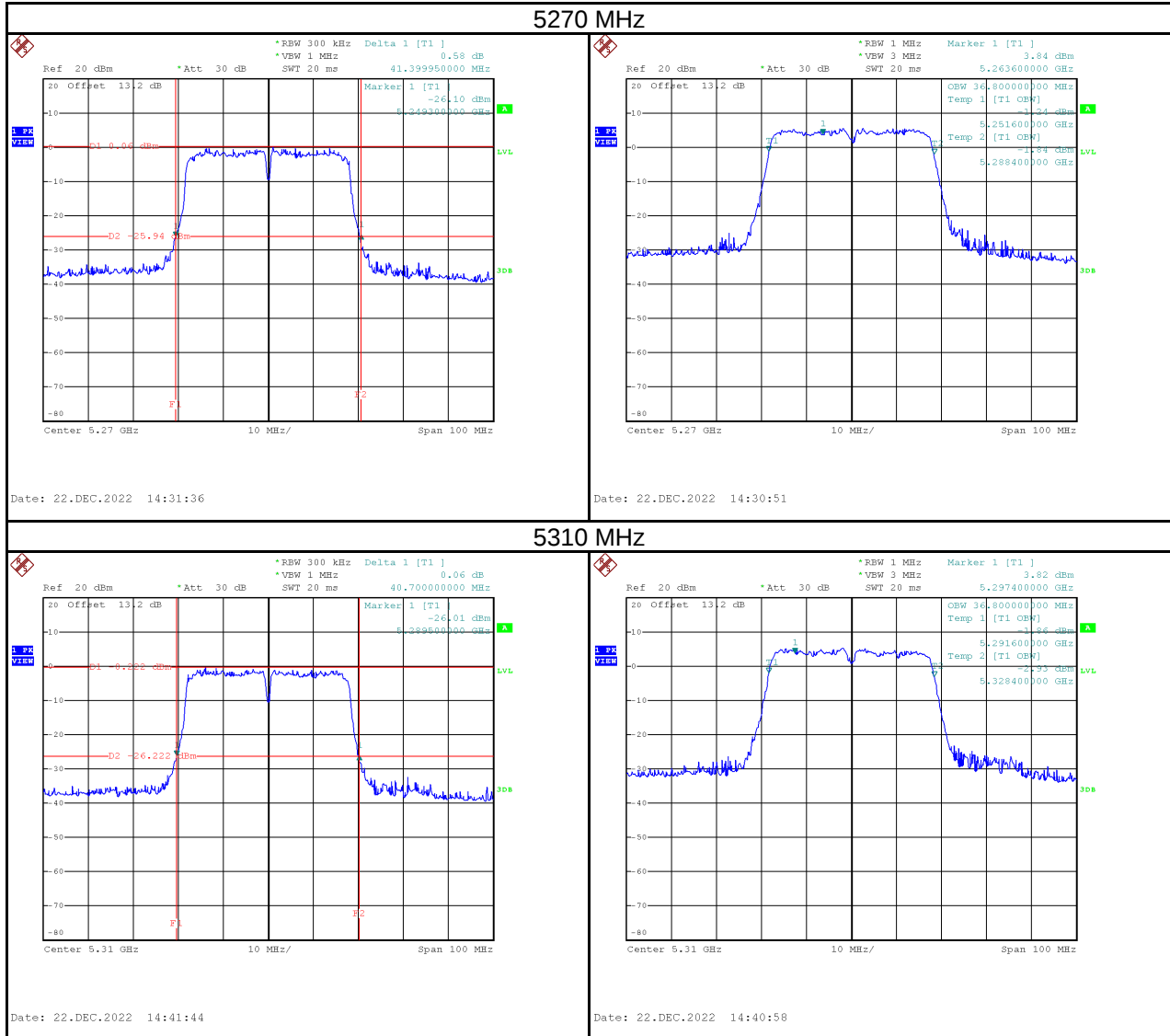


Test Mode	IEEE 802.11n (HT40)
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Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5190	41.30	36.40	No limit
5230	41.50	36.80	No limit

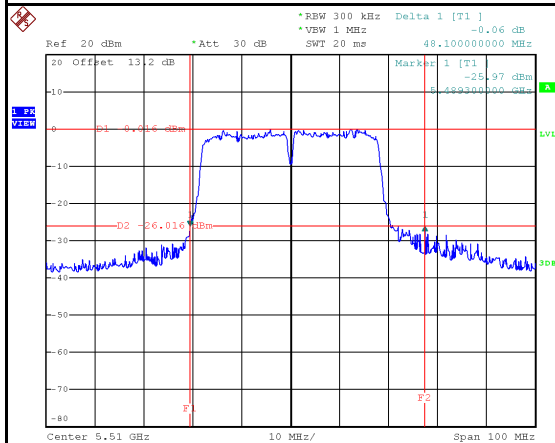


Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5270	41.40	36.80	No limit
5310	40.70	36.80	No limit

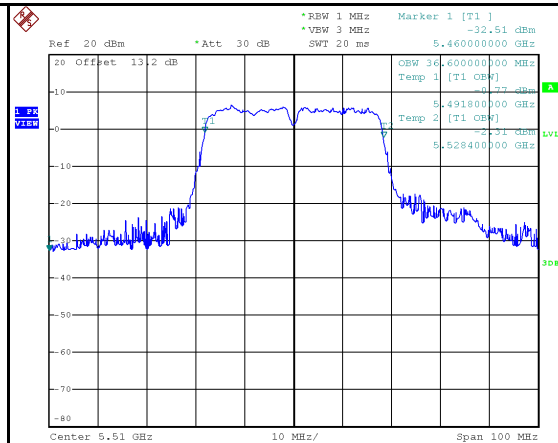


Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5510	48.10	36.60	No limit
5550	49.50	36.80	No limit
5670	41.50	36.40	No limit

5510 MHz

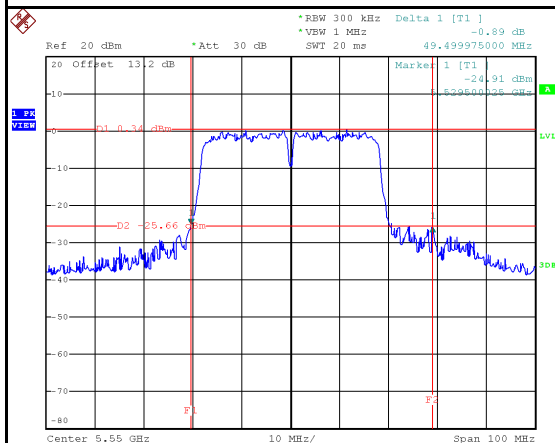


Date: 22.DEC.2022 15:02:09

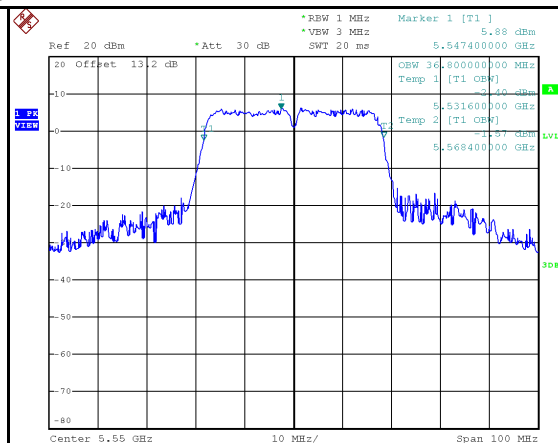


Date: 22.DEC.2022 15:01:28

5550 MHz

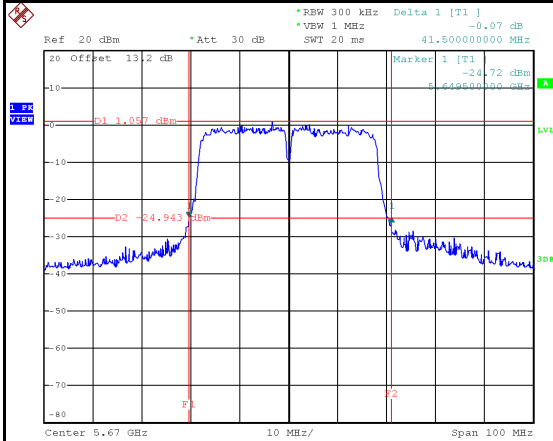


Date: 22.DEC.2022 15:10:10

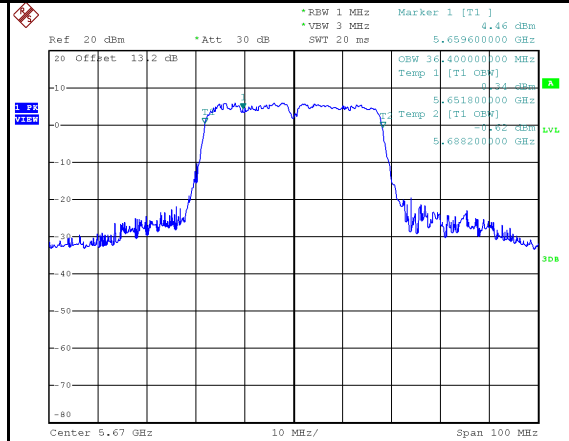


Date: 22.DEC.2022 15:09:28

5670 MHz



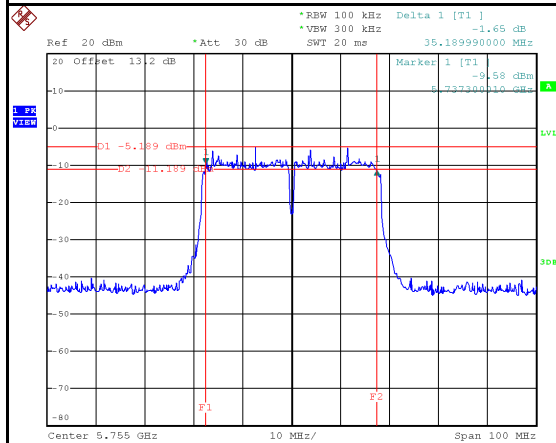
Date: 22.DEC.2022 15:13:33



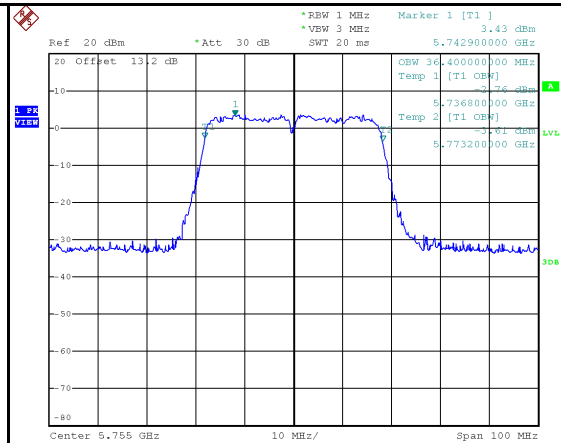
Date: 22.DEC.2022 15:12:49

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
5755	35.19	36.40	500	Pass
5795	35.20	36.60	500	Pass

5755 MHz

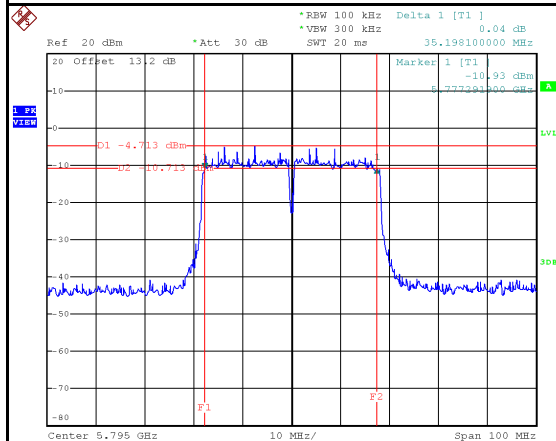


Date: 22.DEC.2022 15:15:52

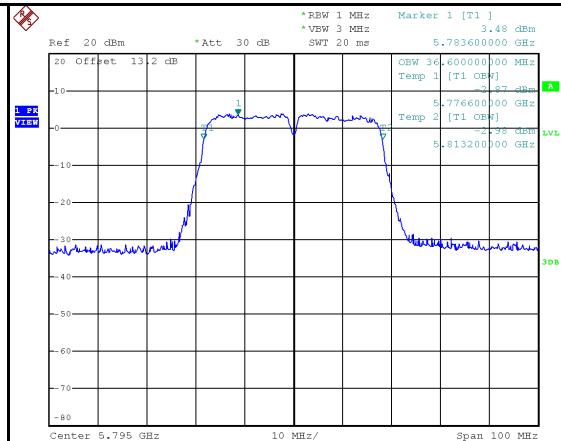


Date: 22.DEC.2022 15:15:02

5795 MHz



Date: 22.DEC.2022 15:26:58



Date: 22.DEC.2022 15:26:05

APPENDIX E CONDUCTED OUTPUT POWER

Test Mode	IEEE 802.11a	Tested Date	2022/12/21
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Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	12.82	0.0191	24.00	0.2512	Pass
5200	12.58	0.0181	24.00	0.2512	Pass
5240	12.62	0.0183	24.00	0.2512	Pass
5260	12.66	0.0185	24.00	0.2512	Pass
5300	12.58	0.0181	24.00	0.2512	Pass
5320	12.55	0.0180	24.00	0.2512	Pass
5500	12.78	0.0190	24.00	0.2512	Pass
5580	12.56	0.0180	24.00	0.2512	Pass
5700	12.63	0.0183	24.00	0.2512	Pass
5745	10.86	0.0122	30.00	1.0000	Pass
5785	10.58	0.0114	30.00	1.0000	Pass
5825	10.64	0.0116	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)	Tested Date	2022/12/21
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Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	12.63	0.0183	24.00	0.2512	Pass
5200	12.82	0.0191	24.00	0.2512	Pass
5240	12.73	0.0187	24.00	0.2512	Pass
5260	12.80	0.0191	24.00	0.2512	Pass
5300	12.70	0.0186	24.00	0.2512	Pass
5320	12.76	0.0189	24.00	0.2512	Pass
5500	12.79	0.0190	24.00	0.2512	Pass
5580	12.82	0.0191	24.00	0.2512	Pass
5700	12.75	0.0188	24.00	0.2512	Pass
5745	10.77	0.0119	30.00	1.0000	Pass
5785	10.62	0.0115	30.00	1.0000	Pass
5825	10.88	0.0122	30.00	1.0000	Pass

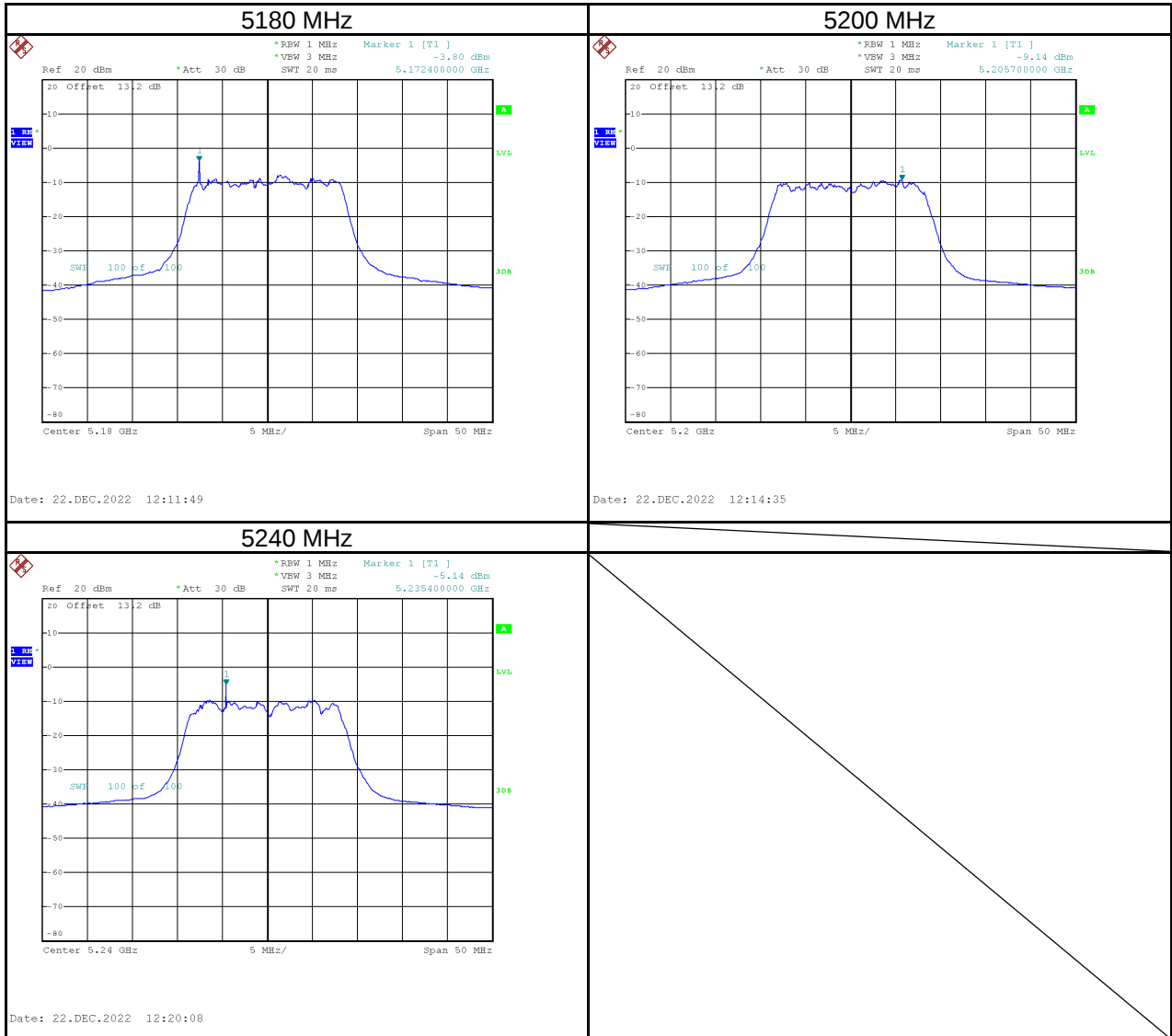
Test Mode	IEEE 802.11n (HT40)	Tested Date	2022/12/21
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Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	12.79	0.0190	24.00	0.2512	Pass
5230	12.85	0.0193	24.00	0.2512	Pass
5270	12.78	0.0190	24.00	0.2512	Pass
5310	12.79	0.0190	24.00	0.2512	Pass
5510	12.72	0.0187	24.00	0.2512	Pass
5550	12.75	0.0188	24.00	0.2512	Pass
5670	12.77	0.0189	24.00	0.2512	Pass
5755	10.61	0.0115	30.00	1.0000	Pass
5795	10.62	0.0115	30.00	1.0000	Pass

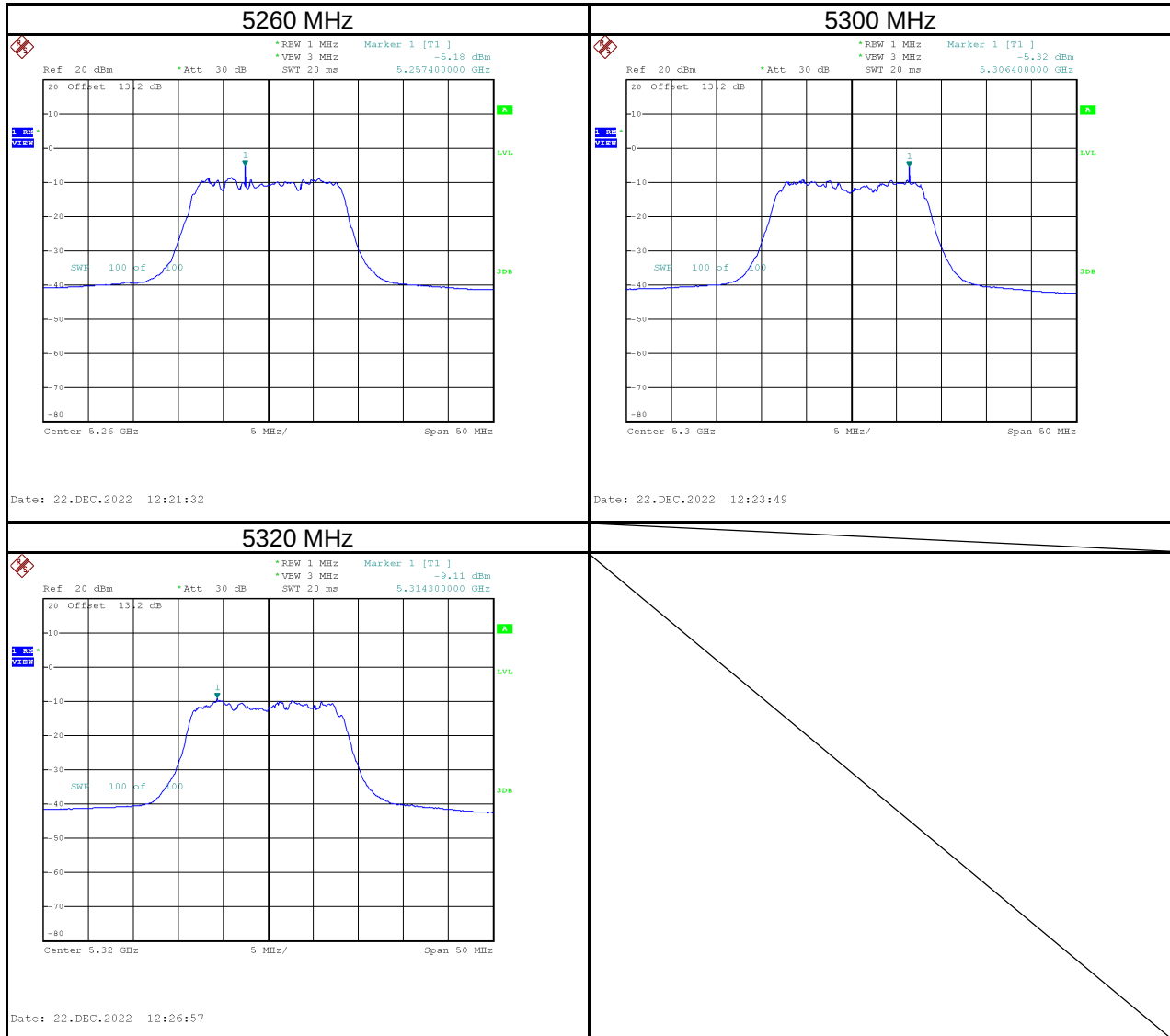
APPENDIX F POWER SPECTRAL DENSITY

Test Mode	IEEE 802.11a
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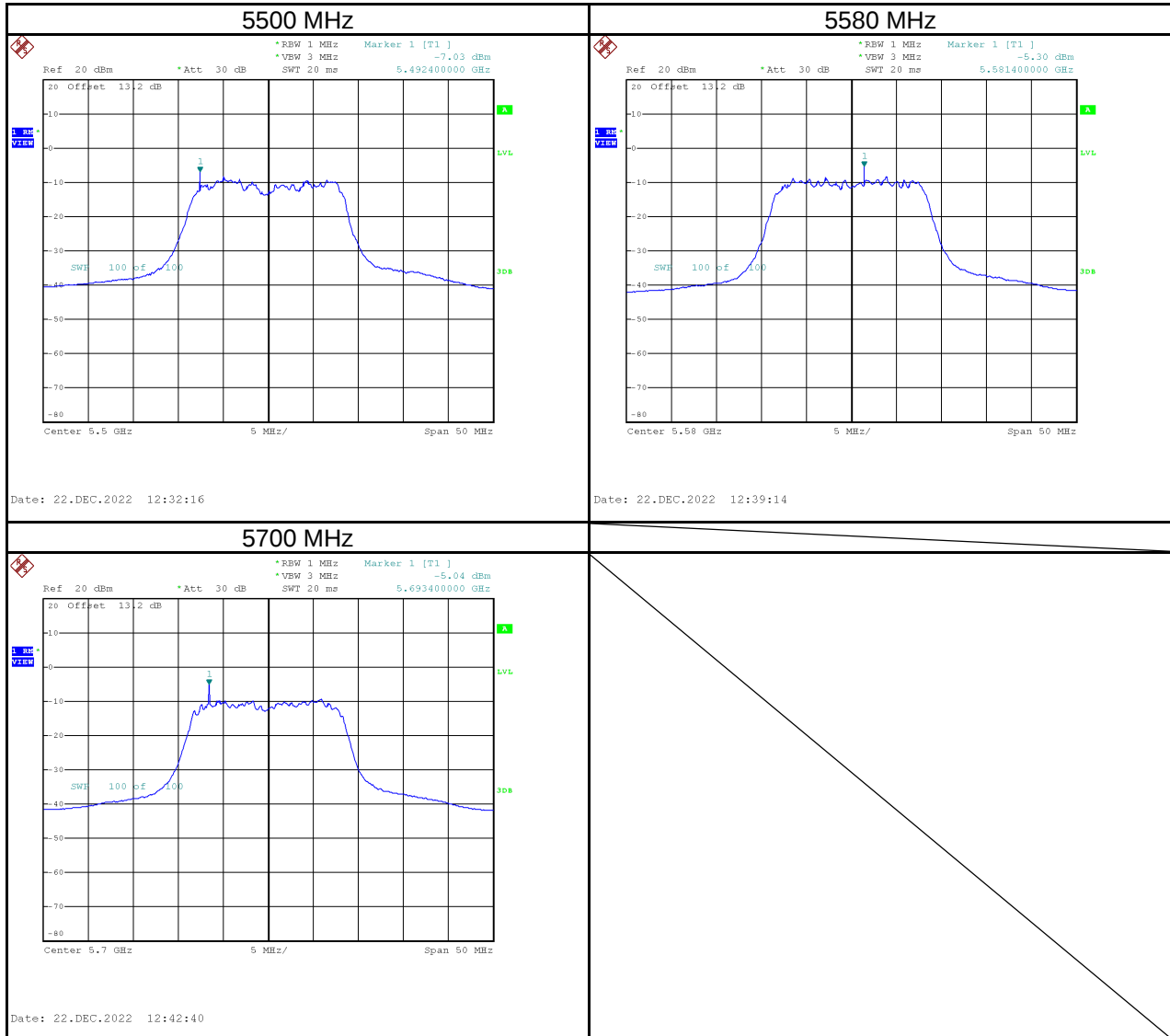
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	-3.80	0.49	-3.31	17.00	Pass
5200	-9.14	0.49	-8.65	17.00	Pass
5240	-5.14	0.49	-4.65	17.00	Pass



Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5260	-5.18	0.49	-4.69	11.00	Pass
5300	-5.32	0.49	-4.83	11.00	Pass
5320	-9.11	0.49	-8.62	11.00	Pass

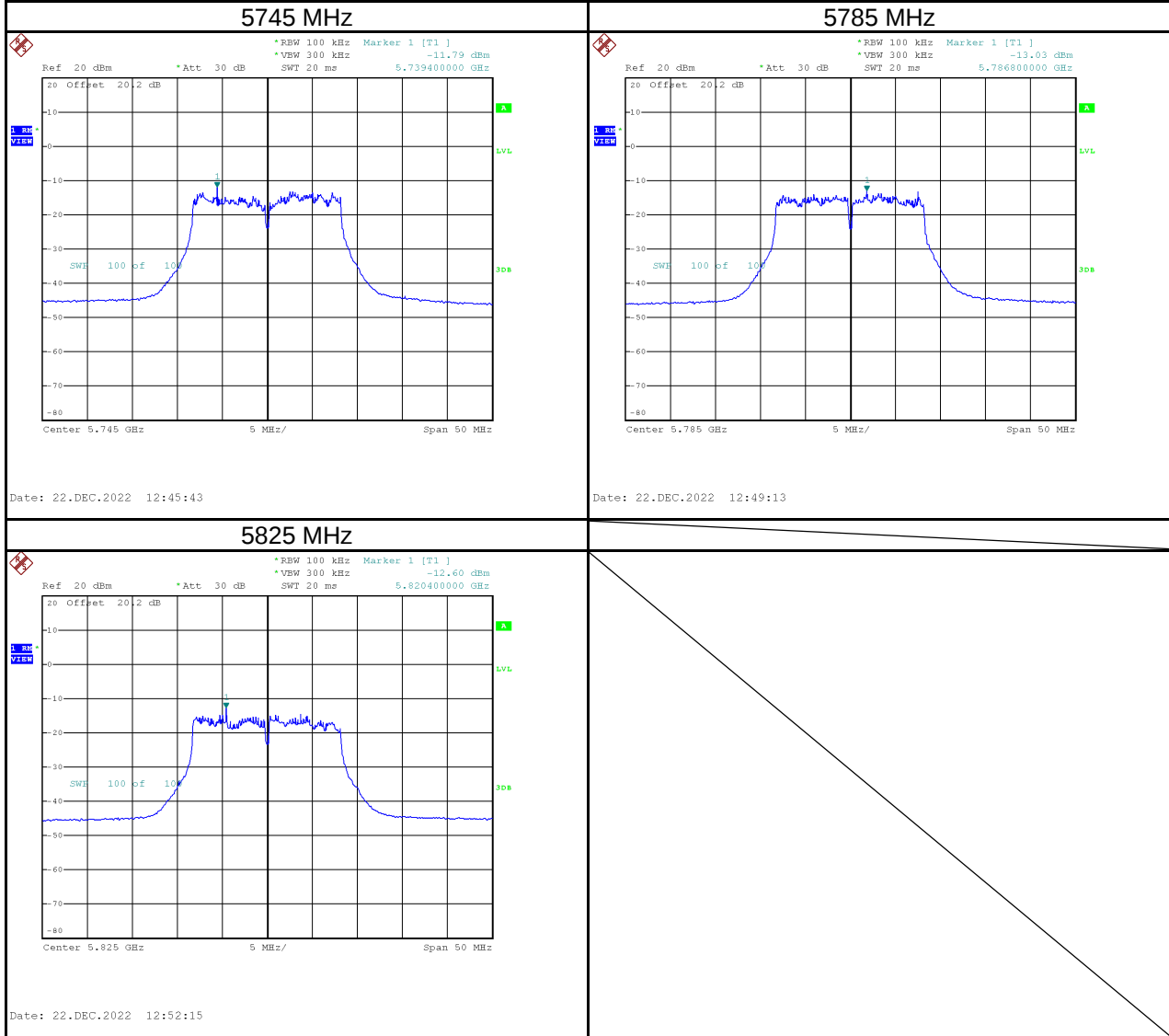


Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5500	-7.03	0.49	-6.54	11.00	Pass
5580	-5.30	0.49	-4.81	11.00	Pass
5700	-5.04	0.49	-4.55	11.00	Pass



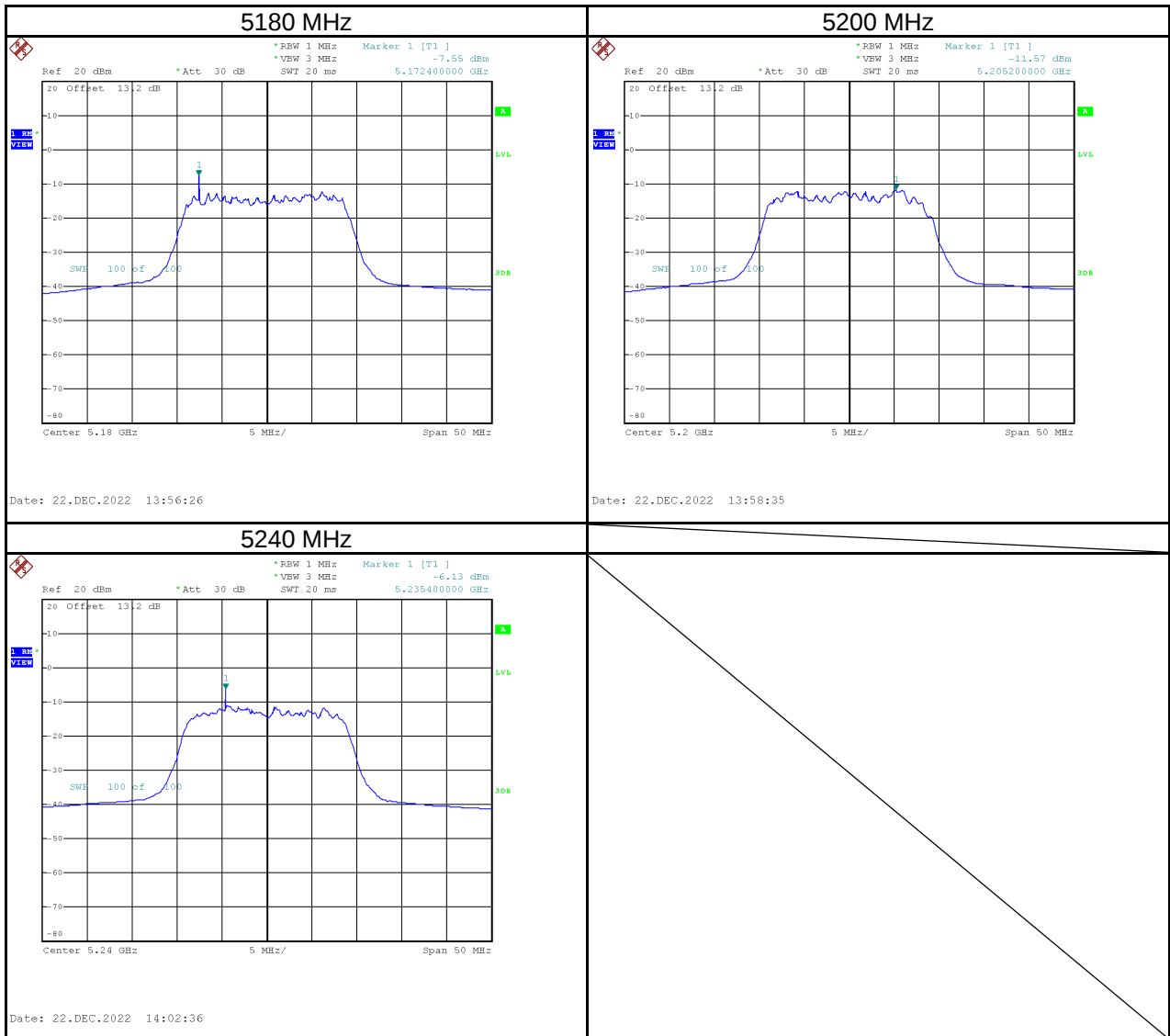
Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5745	-11.79	-4.80	0.49	-4.31	30.00	Pass
5785	-13.03	-6.04	0.49	-5.55	30.00	Pass
5825	-12.60	-5.61	0.49	-5.12	30.00	Pass

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

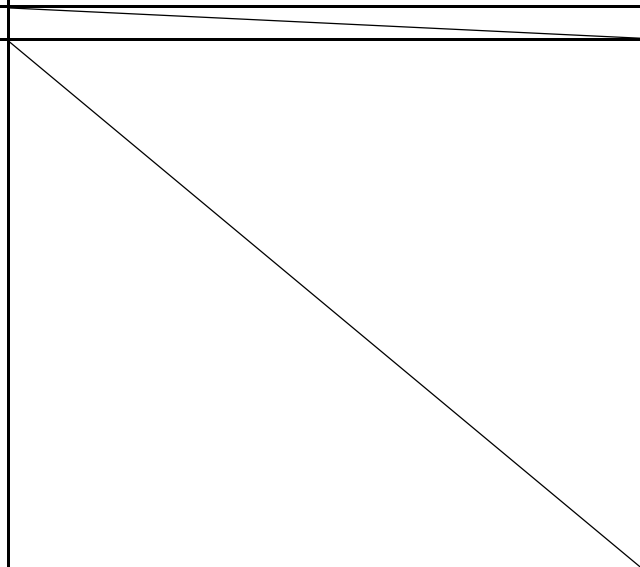
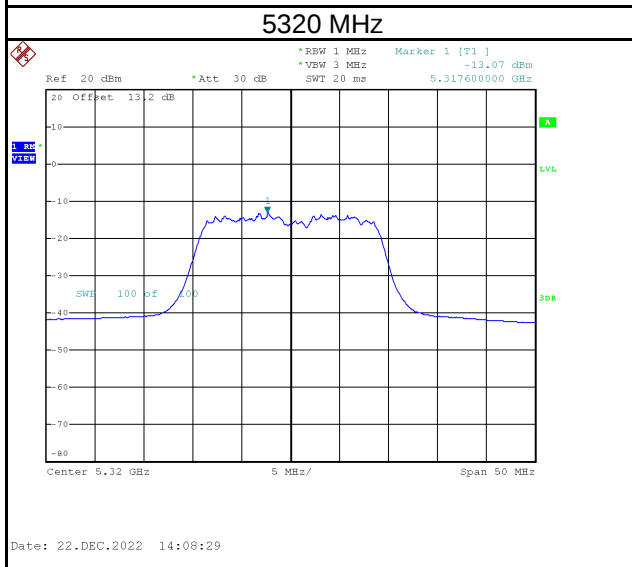
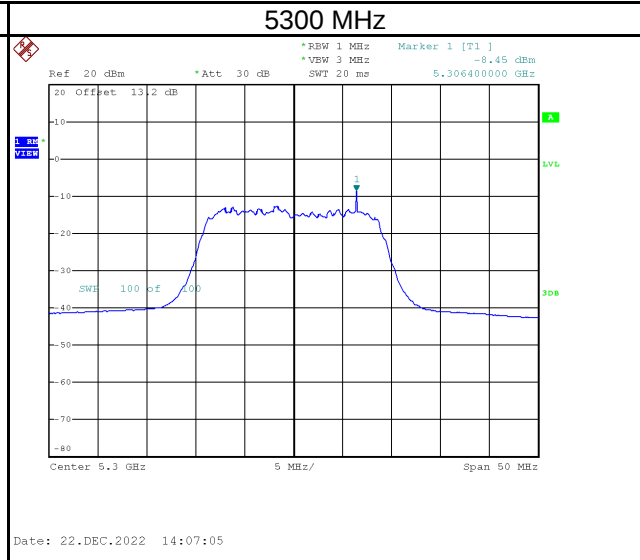
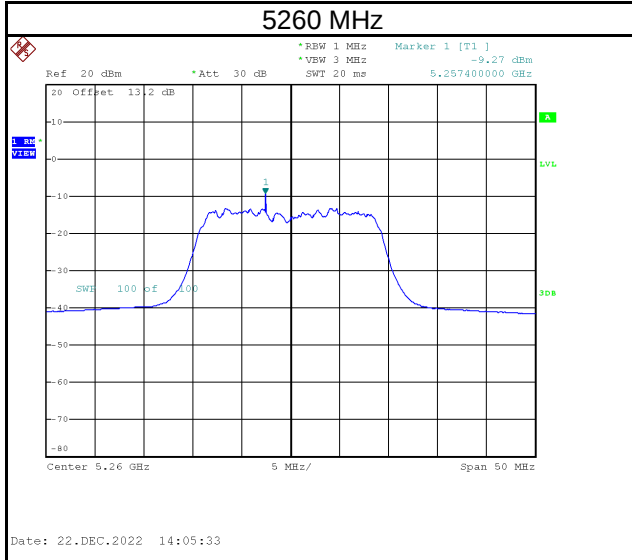


Test Mode	IEEE 802.11n (HT20)
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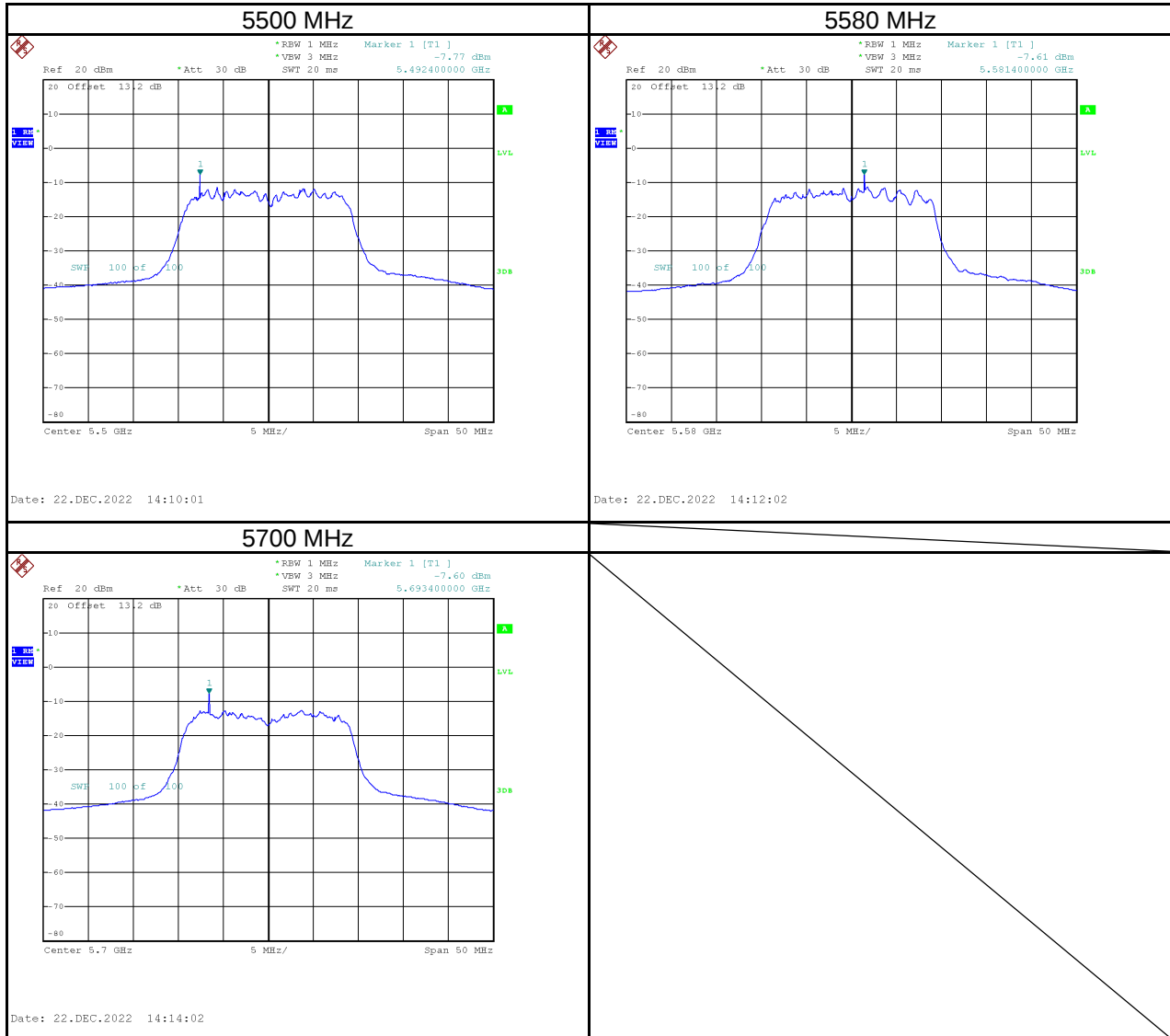
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	-7.55	0.55	-7.00	17.00	Pass
5200	-11.57	0.55	-11.02	17.00	Pass
5240	-6.13	0.55	-5.58	17.00	Pass



Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5260	-9.27	0.55	-8.72	11.00	Pass
5300	-8.45	0.55	-7.90	11.00	Pass
5320	-13.07	0.55	-12.52	11.00	Pass

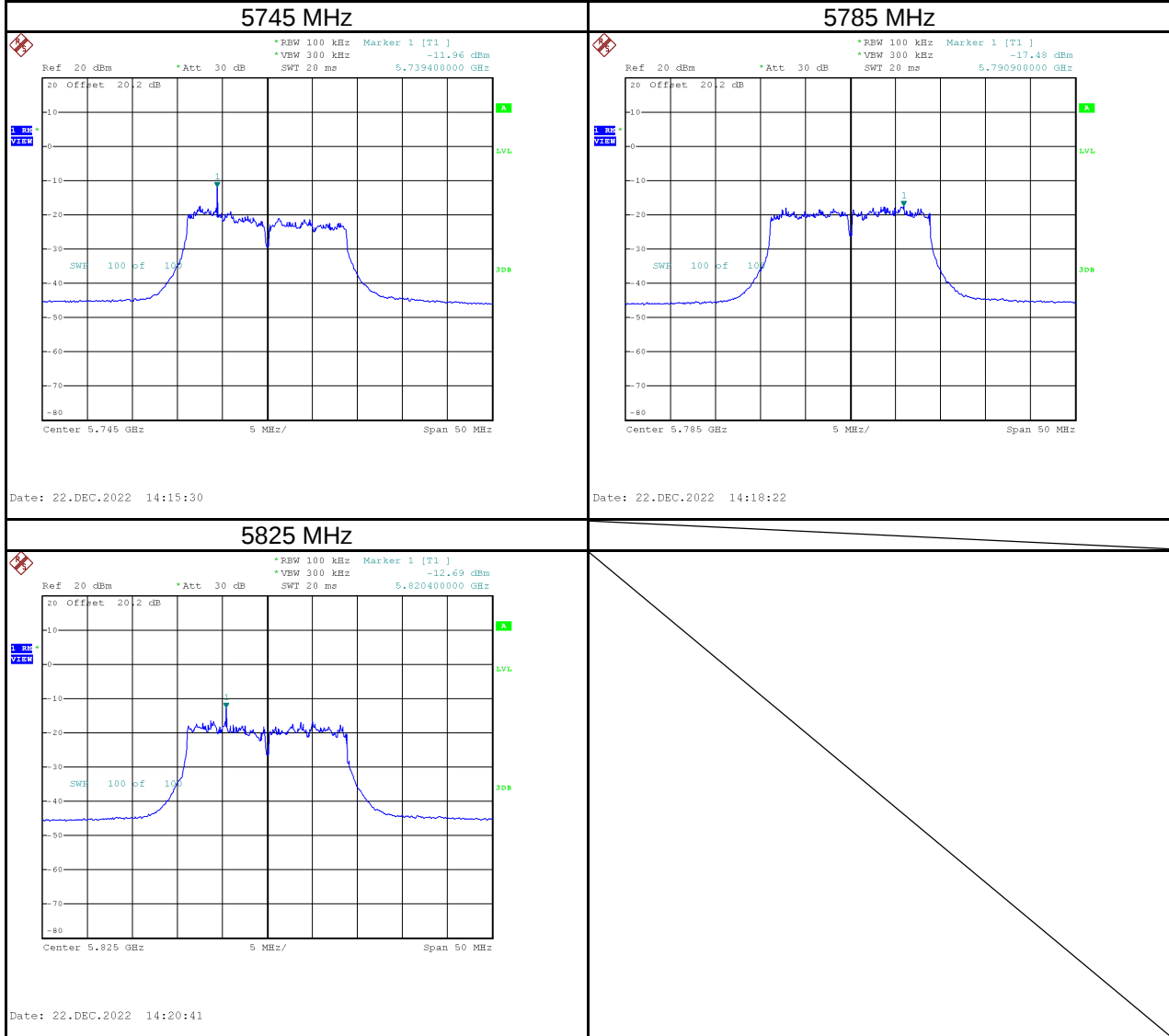


Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5500	-7.77	0.55	-7.22	11.00	Pass
5580	-7.61	0.55	-7.06	11.00	Pass
5700	-7.60	0.55	-7.05	11.00	Pass



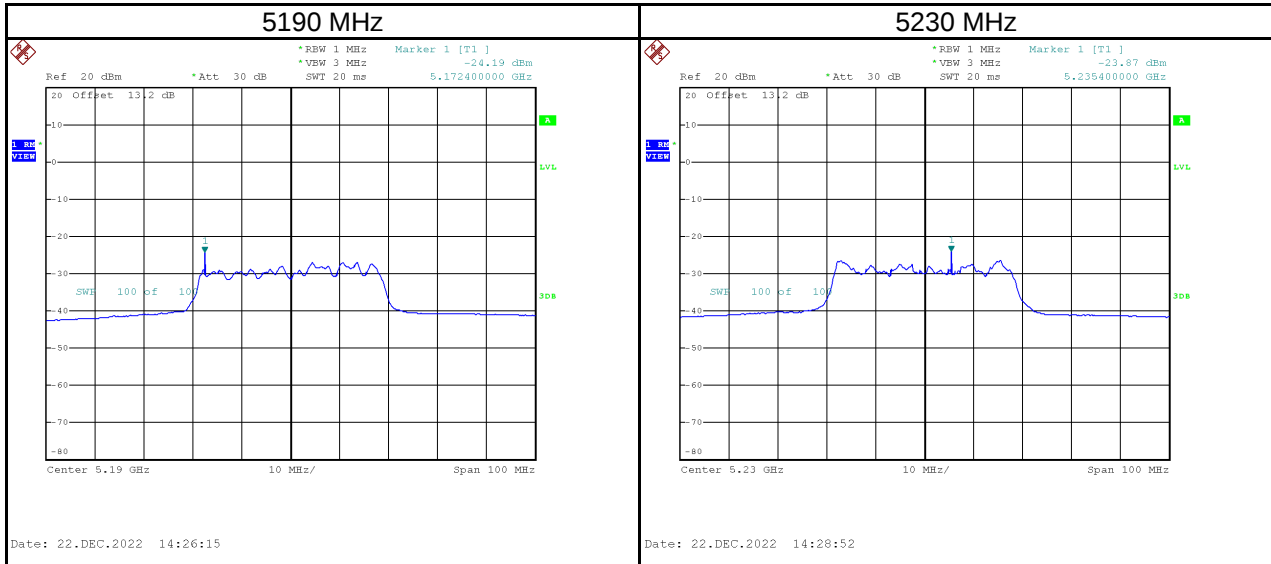
Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5745	-11.96	-4.97	0.55	-4.42	30.00	Pass
5785	-17.48	-10.49	0.55	-9.94	30.00	Pass
5825	-12.69	-5.70	0.55	-5.15	30.00	Pass

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

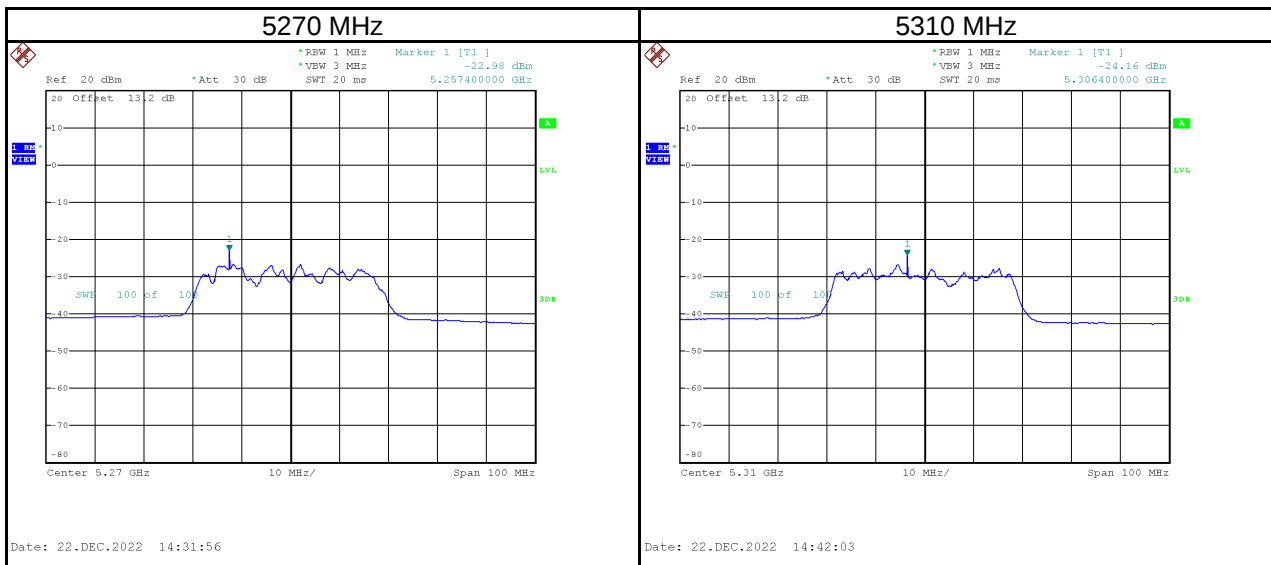


Test Mode	IEEE 802.11n (HT40)
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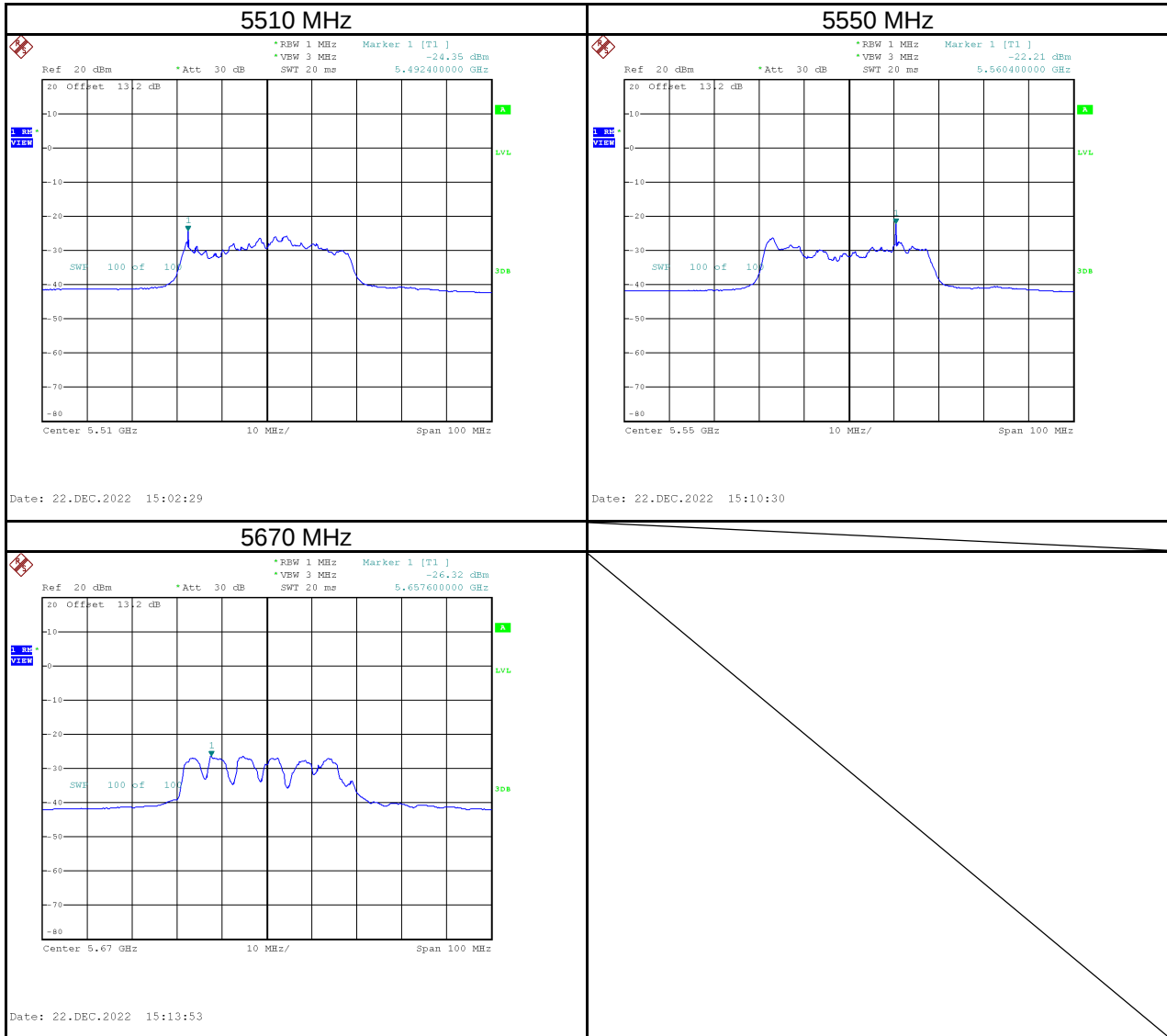
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5190	-24.19	1.36	-22.83	17.00	Pass
5230	-23.87	1.36	-22.51	17.00	Pass



Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5270	-22.98	1.36	-21.62	11.00	Pass
5310	-24.16	1.36	-22.80	11.00	Pass

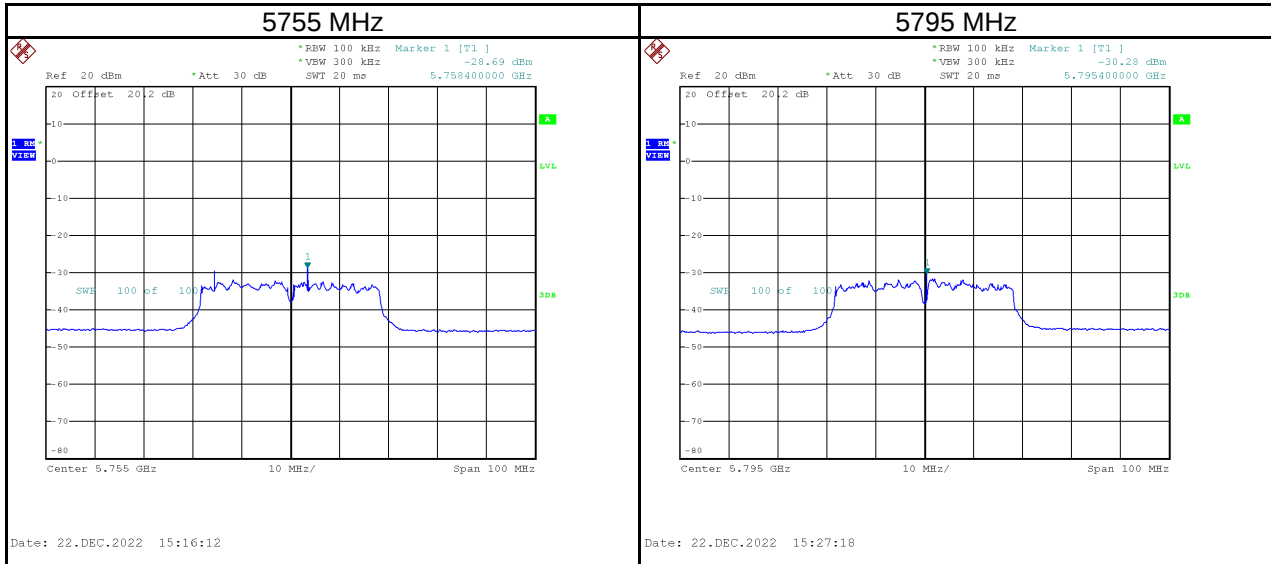


Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5510	-24.35	1.36	-22.99	11.00	Pass
5550	-22.21	1.36	-20.85	11.00	Pass
5670	-23.32	1.36	-21.96	11.00	Pass



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
5755	-28.69	-21.70	1.36	-20.34	30.00	Pass
5795	-30.28	-23.29	1.36	-21.93	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