

# ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant: Manufacturer:	MediaTek Inc. No. 1, Dusing 1st Rd. Hsinchu Science Park, Hsinchu City, 30078, Taiwan MediaTek Inc. No. 1, Dusing 1st Rd. Hsinchu Science Park, Hsinchu City, 30078, Taiwan
Product Name:	2TX 11ax (WiFi6E) BW160+BT/BLE Combo Card
Brand Name:	MediaTek
Model No.:	MT7922A22M
Model Difference:	N/A
Report Number:	TERF2309002328ER
FCC ID	RAS-MT7922A22M
Date of EUT Received:	September 22, 2023
Date of Test:	September 23, 2023 $\sim$ November 10, 2023
Issue Date:	December 6, 2023

Men Cary

Approved By

Blue Yano

# We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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	Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark			
TERF2309002328ER	00	Original.	November 20, 2023	Susan Lin				
TERF2309002328ER	01	<ol> <li>Update applicant and manufacturer</li> <li>Add module information</li> <li>Add duty cycle</li> </ol>	December 4, 2023	Susan Lin	*			
TERF2309002328ER	02	<ol> <li>Update summary of test results</li> <li>Update chapter 4.2 tested channel</li> </ol>	December 6, 2023	Susan Lin	*			

# Note:

1 . The remark "\*" indicates modification of the report upon requests from certification body.

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# **GENERAL INFORMATION** 1

# 1.1 Product Description

Product Name:	2TX 11ax (WiFi6E) BW160+BT/BLE Combo Card
Brand Name:	MediaTek
Model No.:	MT7922A22M
Product Name of Host:	Cooling X
Brand Name of Host:	Be Excellent line
Model No. of Host:	ASP-CXA9-N86CN
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	ASPCXA9N86CNR11231500004
Power Supply:	230V AC
Test Software (Name/Version):	MT7922/0.0.2.73

## 1.2 **Modulation & Data Rate**

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a			
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax			
	802.11 a: 6 - 54 Mbps			
	802.11 ax_20MHz: up to 286.8 Mbps			
Transition Rate:	802.11 ax_40MHz: up to 573.6 Mbps			
	802.11 ax_80MHz: up to 1201 Mbps			
	802.11 ax_160MHz: up to 2402 Mbps			

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# 1.3 Antenna Designation

Antenna Type	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
		5925~6425	4.19	7.20
	ANT1	6425~6525	4.19	7.20
		6525~6875	4.19	7.20
PIFA		6875~7125	4.19	7.20
PIFA	ANT2	5925~6425	4.18	7.20
		6425~6525	4.18	7.20
	ANTZ	6525~6875	4.18	7.20
		6875~7125	4.18	7.20

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.

2. Antenna information is provided by the applicant.

#### **Rated Power** 1.4

Wi-Fi	Frequency Range	Channels
	5955~6415	24
а	6435~6515	5
20MHz	6535~6875	18
	6895~7115	12

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		0
Wi-Fi	Frequency Range	Channels
	5955~6415	24
ax_HE	6435~6515	5
20MHz	6535~6875	18
	6895~7115	12
	5965~6405	12
ax_HE	6445~6525	3
40MHz	6565~6845	8
	6885~7085	6
	5985~6385	6
ax_HE	6465	1
80MHz	6545~6865	5
	6945~7025	2
	6025~6345	3
ax_HE	6505	1
160MHz	6665~6825	2
	6985	1

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### **Test Methodology of Applied Standards** 1.5

FCC Part 15, Subpart E §15.407 FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 FCC KDB 662911 D01 Multiple Transmitter Output v02r01 ANSI C63.10:2013

### **Test Facility** 1.6

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No. 124 Mu Kung Dood, Now Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	T\4/0027	
	Industrial Park, Wuku District, New Taipei City, Taiwan.	Conducted 2	TW0027	
	Taiper City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		TW3702
TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	Tabyuan City, Taiwan 555	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

#### 1.7 **Special Accessories**

There are no special accessories used while test was conducted.

## **Equipment Modifications** 1.8

There was no modification incorporated into the EUT.

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# SYSTEM TEST CONFIGURATION 2

### 2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

#### 2.3 **Test Procedure**

### 2.3.1 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

## 2.3.2 **Radiated Emissions**

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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### 2.4 **Measurement Results Explanation Example**

### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

#### 2.4.2 For all conducted test items:

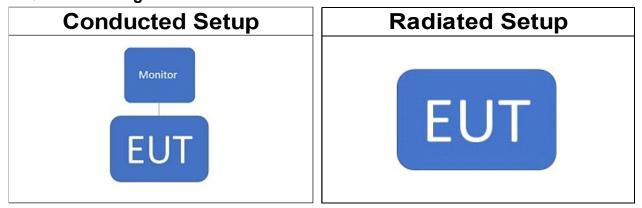
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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## 2.5 **Test Configuration**



### 2.6 Control Unit(s)

Conducted Emission Test Site: Conducted 1							
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.							
Monitor	ViewSonic	VS17427	VFZ204560533	N/A	N/A		

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# SUMMARY OF TEST RESULT 3

FCC Rules	Description Of Test	Result
-	Duty Cycle Measurement	-
§15.205 §15.209 §15.407(b)(5),(b)(8), (b)(9)	Undesirable Radiated Emissions	Compliant

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# **DESCRIPTION OF TEST MODES** 4

### 4.1 **Operating Frequencies**

	UNII-5 5925~6425 MHz						
	20MHz				4	0MHz	80
СН	Freq. (MHz)	СН	Freq. (MHz)		СН	Freq. (MHz)	СН
1	5955	49	6195		3	5965	7
5	5975	53	6215		11	6005	23
9	5995	57	6235		19	6045	39
13	6015	61	6255		27	6085	55
17	6035	65	6275		35	6125	71
21	6055	69	6295		43	6165	87
25	6075	73	6315		51	6205	
29	6095	77	6335		59	6245	
33	6115	81	6355		67	6285	
37	6135	85	6375		75	6325	
41	6155	89	6395		83	6365	
45	6175	93	6415		91	6405	

8	0MHz	16	60MHz
Η	Freq. (MHz)	СН	Freq. (MHz)
7	5985	15	6025
3	6065	47	6185
9	6145	79	6345
5	6225		

6305 6385

		UN	III-6 64	2:	5~652	25 MHz		
2	0MHz	4	40MHz			0MHz	16	30
СН	Freq. (MHz)	СН	Freq. (MHz)		СН	Freq. (MHz)	СН	(
97	6435	99	6445		103	6465	111	
101	6455	107	6485					
105	6475	115	6525					
109	6495			-				
113	6515							

160MHz								
СН	Freq. (MHz)							
111	6505							

			UN	<b>  -</b> 7 (	6525~687	5 MH	z							JN	II-8 687	75	5~712	25 MHz		
	201	ИНz		4	0MHz		30MHz		16	60MHz	20MHz 40MHz 80MHz			OMHz	160MHz					
СН	Freq. (MHz)	СН	Freq. (MHz)	СН	Freq. (MHz)	СН	Freq. (MHz)		СН	Freq. (MHz)	СН	Freq. (MHz)	С	Η	Freq. (MHz)		СН	Freq. (MHz)	СН	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545		143	6665	189	6895	18	37	6885		199	6945	207	6985
121	6555	157	6735	131	6605	135	6625		175	6825	193	6915	19	95	6925		215	7025		
125	6575	161	6755	139	6645	151	6705	1	<u> </u>		197	6935	20	)3	6965					
129	6595	165	6775	147	6685	167	6785				201	6955	2′	1	7005					
133	6615	169	6795	155	6725	183	6865				205	6975	2′	9	7045					
137	6635	173	6815	163	6765						209	6995	22	27	7085					
141	6655	177	6835	171	6805						213	7015				I				
145	6675	181	6855	179	6845						217	7035								
149	6695	185	6875	R							221	7055								
		•									225	7075								
											229	7095								

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# The Worst Test Modes and Channel Details 4.2

- The EUT has been tested under operating condition. 1.
- Test program used to control the EUT for staying in continuous transmitting mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

N	<i>I</i> odulation		Transmission Chain								Single ansmission Spatial	Multiple Transmission Spatial		
v	802.11 a	۷	Ch0	۷	Ch1		Ch2		Ch3		1TX	۷	2TX	
v	802.11 ax	۷	Ch0	۷	Ch1		Ch2		Ch3		1TX	۷	2TX	

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

	CONDUCTED TEST										
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA					
	BAND (MHz)	CHANNEL	CHANNEL		(Mbps)	PORT					
802.11a	5955~6415	1 to 93	1	OFDM	6	2TX					

			CONDUCTE	D TEST			
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2TX
802.11ax_HE40	5965~6405	3 to 91	3	OFDMA	FULL RU 242/61,242/62	MCS0	2TX
802.11ax_HE80	5985~6385	7 to 87	7	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
802.11ax_HE160	6025~6345	15 to 79	15	OFDMA	FULL RU 484/65,484/66	MCS0	2TX

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)										
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA				
MODE	BAND (MHz)	CHANNEL	CHANNEL	WODULATION	(Mbps)	PORT				
	5955~6415	1 to 93	45							
802.11a	6435~6515	97 to 113	105	OFDM	6	2TX				
002.118	6535~6875	117 to 185	181		0	217				
	6895~7115	189 to 233	213							

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)											
MODE	FREQUENCY	AVAILABLE TESTED		MODULATION	DATA RATE	ANTENNA					
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION	(Mbps)	PORT					
	5955~6415	1 to 93	1,45,93								
802.11a	6435~6515	97 to 113	97,105,113	OFDM	6	2TX					
002.11a	6535~6875	117 to 185	117,153,181,185		0	217					
	6895~7115	189 to 233	213,233								

		TRANSMIT	RADIATED EMISSI	ON TEST (AB	OVE 1 GHz)		
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	RU	DATA RATE	ANTENNA
WODL	BAND (MHz)	CHANNEL	CHANNEL	MODULATION	CONFIGURATION	(Mbps)	PORT
	5955~6415	1 to 93	1,45,93				
802.11ax HE20	6435~6515	97 to 113	97,105,113	OFDMA	FULL RU	MCS0	2TX
002.11ax_11220	6535~6875	117 to 185	117,153,181,185		TOLL NO	MCS0	217
	6895~7115	189 to 233	213,233				
	5965~6405	3 to 91	3,43,91				
802.11ax HE40	6445~6525	99 to 115	99,107,115	OFDMA	FULL RU	MCS0	2TX
002.11ax_11E40	6565~6845	123 to 179	123,155,179		TOLL KO	WC30	217
	6885~7085	187 to 227	187,211,227				
	5985~6385	7 to 87	7,39,87				
802.11ax HE80	6465	103	103	OFDMA	FULL RU	MCS0	2TX
002.118X_FE00	6545~6865	119 to 183	119,135,151,167,183	OFDIMA	FULL KU	WC30	217
	6945~7025	199 to 215	199,215				
	6025~6345	15 to 79	15,47,79				
902 11ox HE160	6505	111	111	OFDMA	FULL RU	MCS0	2TX
802.11ax_HE160	6665~6825	143 to 175	143,175	OFDIMA	FULL RU	NICSU	218
	6985	207	207				

# Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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# **MEASUREMENT UNCERTAINTY** 5

Radiated Spurious Emission Measurement Uncertainty										
	+/-	2.8	dB	9kHz~30MHz						
Polarization: Vertical	+/-	4.82	dB	30MHz - 1000MHz						
Polarization: Vertical	+/-	4.37	dB	1GHz - 18GHz						
	+/-	4.21	dB	18GHz - 40GHz						
	+/-	2.8	dB	9kHz~30MHz						
Polarization: Horizontal	+/-	4.54	dB	30MHz - 1000MHz						
Polarization. Horizontal	+/-	4.37	dB	1GHz - 18GHz						
	+/-	4.21	dB	18GHz - 40GHz						

# Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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# **MEASUREMENT EQUIPMENT USED** 6

#### 6.1 **Conducted Measurement**

	Conducted Emission Test Site: Conducted 1												
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.								
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/07/2023	06/06/2024								
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R								
Power Meter	Anritsu	ML2496A	1242004	10/26/2022	10/25/2023								
Power Sensor	Anritsu	MA2411B	1207365	10/26/2022	10/25/2023								
Power Sensor	Anritsu	MA2411B	1207368	10/26/2022	10/25/2023								
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023								
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023								

#### **Radiated Measurement** 6.2

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Loop Antenna	ETS.LINDGREN	6502	148045	10/13/2023	10/12/2024
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/03/2023	07/02/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/30/2022	12/29/2023
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/27/2022	12/26/2023
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/17/2023	10/16/2024
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024
Site Cal	SGS	SAC 1	N/A	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC184045B	980135	08/31/2023	08/30/2024
Pre-Amplifier	HP	8447D	2944A09469	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/31/2023	07/30/2024
Bandreject Filter 5925-6425	Woken	WFIL-N5925-6425F	WRGBAFWC2F9	12/13/2022	12/12/2023
Bandreject Filter 6425-6525	Woken	WFIL-N6425-6525F	WRGBAFWC2J1	12/13/2022	12/12/2023
Bandreject Filter 6525-6875	Woken	WFIL-N6525-6875F	WRGBAFWC2J4	12/13/2022	12/12/2023
Bandreject Filter 6875-7125	Woken	WFIL-N6875-7125F	WRGBAFWC2J9	12/13/2022	12/12/2023
8.6GHz High Pass Filter	Titan	T04H86002600060 S01	210619-2-7	12/13/2022	12/12/2023
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062 /2	08/31/2023	08/30/2024
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+15081 7)	09/12/2023	09/11/2024

NOTE: N.C.R refers to Not Calibrated Required.

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# **DUTY CYCLE MEASUREMENT** 7

## 7.1 **Standard Applicable**

### 7.1.1 **Duty Cycle**

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

# 7.2 Test Setup

### 7.2.1 Duty Cycle



#### 7.3 **Measurement Procedure**

#### 7.3.1 **Duty Cycle**

- 1. Set span = Zero
- 2. RBW = 8MHz
- VBW = 8MHz,
- Detector = Peak

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# 7.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11a	96.94	0.13	0.72	1.00
802.11ax_20	82.26	0.85	4.90	5.00
802.11ax_40	82.11	0.86	4.95	5.00
802.11ax_80	82.20	0.85	5.15	6.00
802.11ax_160	81.51	0.89	5.15	6.00

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# 8 UNDESIRABLE RADIATED EMISSIONS

# 8.1 Standard Applicable

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz and below 1 GHz must comply with the general field strength limits set forth in §15.209.

The provisions of §15.205 apply to intentional radiators operating under this section.

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

# Above 1GHz and non-restricted limit

EIRP LIMIT	FIELD STRENGTH AT 3m
Peak: -7 (dBm/MHz)	Peak: 88.2 (dBµV/m)
AV: -27 (dBm/MHz)	AV: 68.2 (dBµV/m)

 $EIRP[dBm] = E[dB\mu V/m] + 20 \log (d[m]) - 104.7$  $E[dB\mu V/m] = EIRP[dBm] - 20 \log (d[m]) + 104.7$ 

# Below 1G and restricted limit

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.

# 8.2 Test Setup

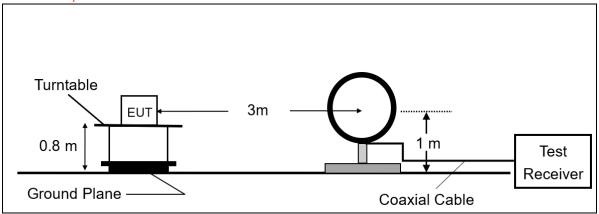
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.

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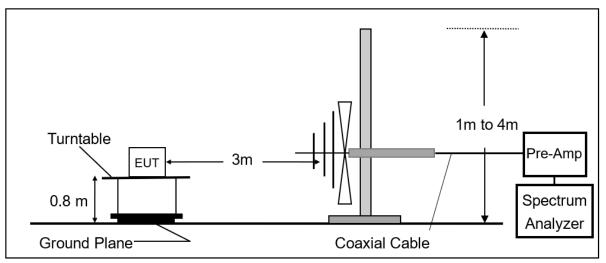
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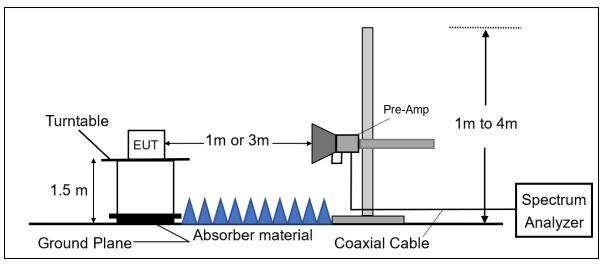




(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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## Measurement Procedure 8.3

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules . 2.
- 3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- The turn table shall rotate 360 degrees to determine the position of maximum emission 4. level.
- EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out 5. the highest emissions.
- Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) 6. at frequency between 30MHz and 1 GHz.
- 7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
- At frequency above 1 GHz, Set the spectrum analyzer: 8.
  - A. RBW=1 MHz, VBW=3 MHz for Peak Detector.
  - **B.** Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW  $\geq$  1/T (Duty cycle < 98%) for **Average** Detector.
- Maximum procedure was performed on the six highest emissions to ensure EUT com-9. pliance.
- **10.** And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- **11.** Repeat above procedures until all frequency measured were complete.

# **Field Strength Calculation** 8.4

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

# FS = RA + AF + CL - AG

*Where FS* = *Field Strength* 

RA = Reading Amplitude AF = Antenna Factor

CL = Cable Attenuation Factor (Cable Loss) AG = Amplifier Gain

The limit of the emission level is expressed in dBuV/m, which converts 20\*log(uV/m) Actual FS( $dB\mu V/m$ ) = SPA. Reading level( $dB\mu V$ ) + Factor(dB) Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

# 8.5 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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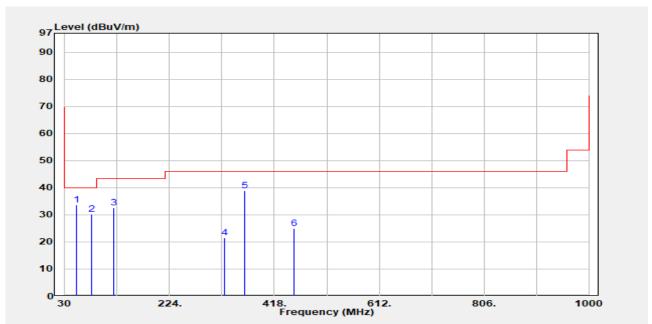
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# **Radiated Spurious Emission Measurement Result** 8.6

### 8.6.1 **Spurious Emission**

Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6175 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



			_				
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	-
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
-			ασμν	uD	ubhau	ubhau	uD
	51.36	Peak	50.43	-16.84	33.59	40.00	-6.41
	80.49	Peak	47.20	-16.94	30.25	40.00	-9.75
	120.30	Peak	44.40	-11.91	32.49	43.50	-11.01
	325.18	QP	30.30	-8.79	21.51	46.00	-24.49
	363.04	Peak	46.59	-7.79	38.80	46.00	-7.20
	455.29	QP	31.30	-6.21	25.09	46.00	-20.91

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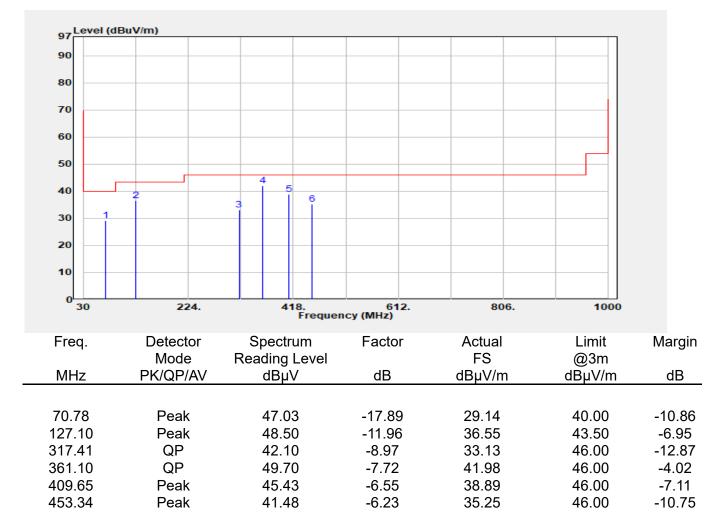
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6175 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



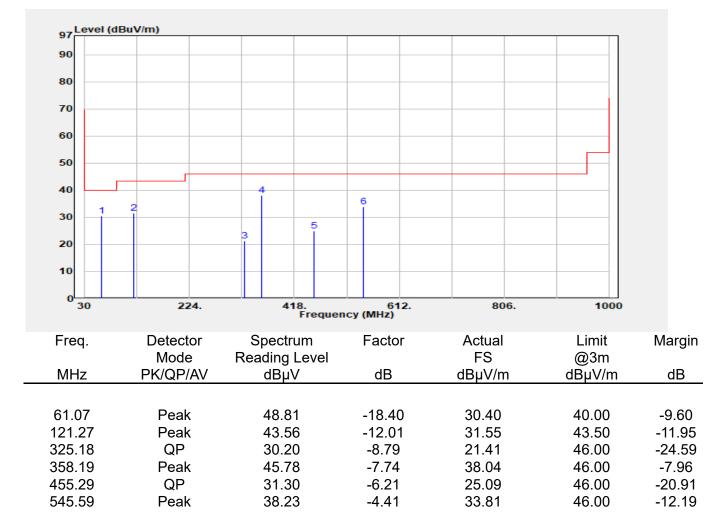
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6475 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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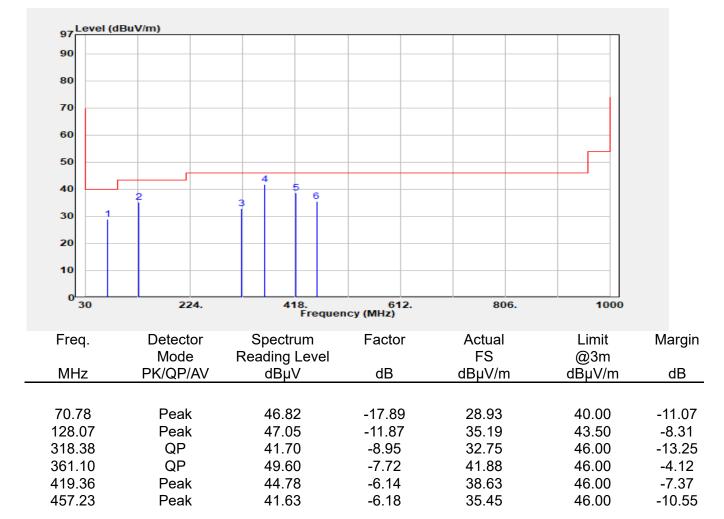
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6475 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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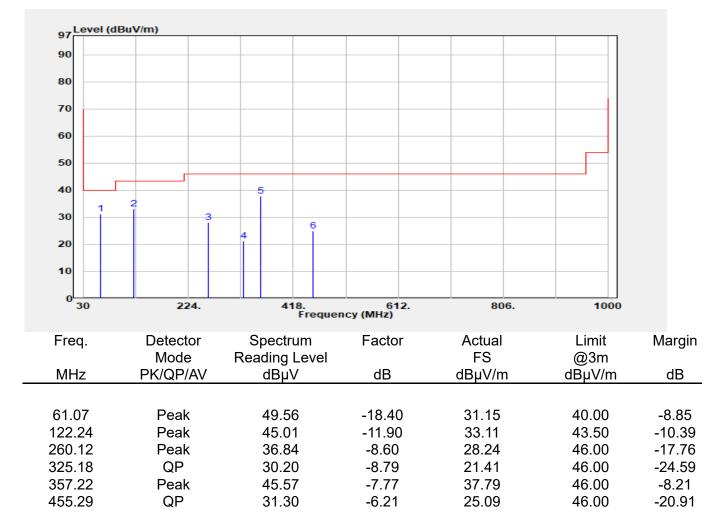
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6855 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



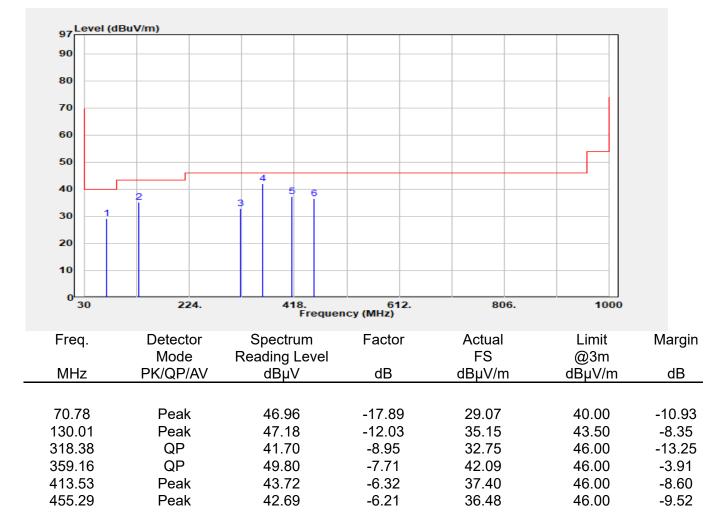
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Operation mode	.002.11a	Test Date	.2020-11-10
Test Frequency	:6855 MHz	Temp./Humi.	:25°∁/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



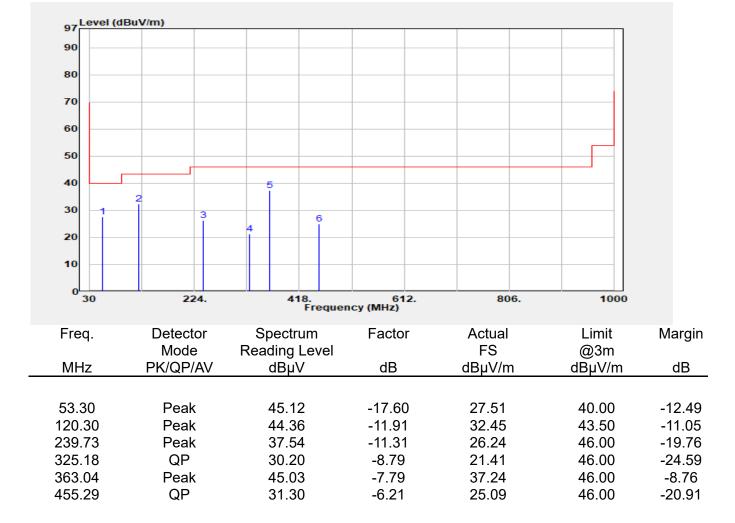
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:7015 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu

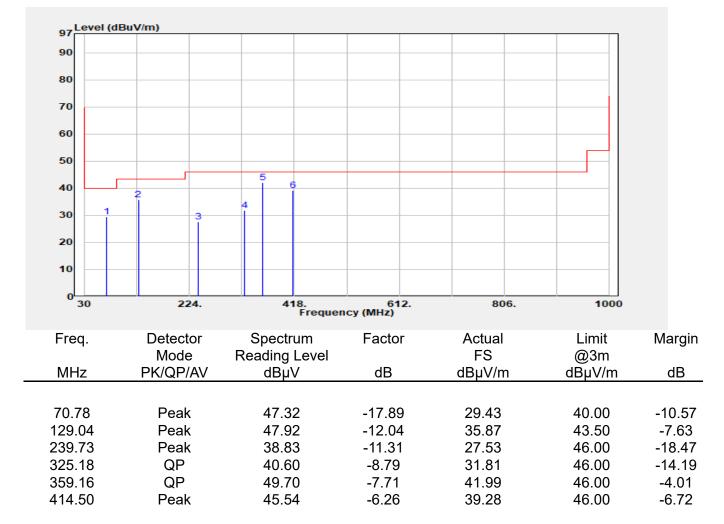


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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:7015 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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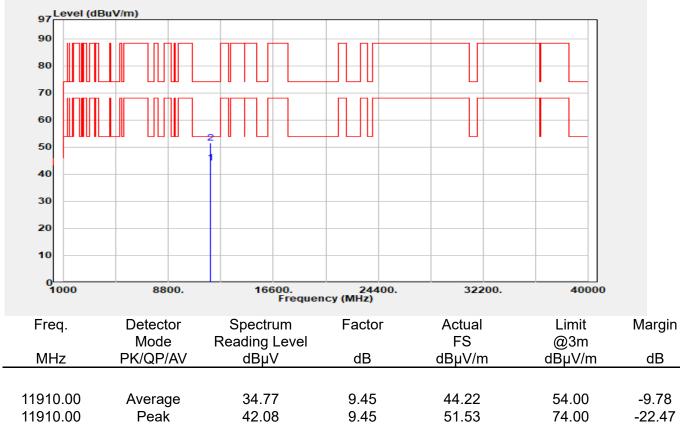
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:5955 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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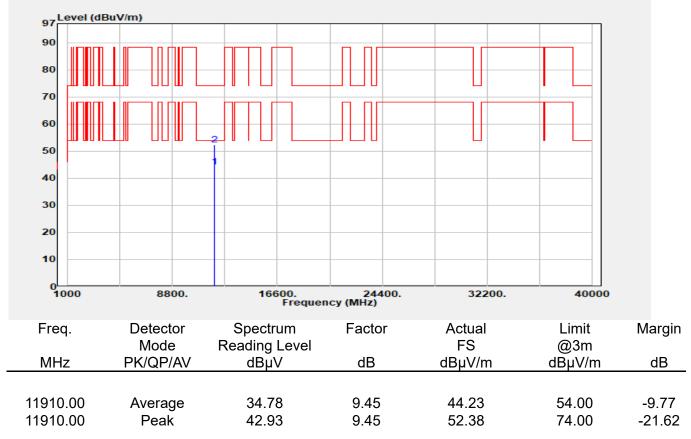
:SAC 1

:2023-11-10 :25°℃/61%

:Horizontal :Cooper Hsu



Report Number	:TERF2309002328ER	Test Site
Operation Mode	:802.11a	Test Date
Test Frequency	:5955 MHz	Temp./Humi.
Test Mode	:Tx	Antenna Pol.
EUT Pol	:H Plane	Engineer



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Report No.: TERF2309002328ER Page: 33 of 138

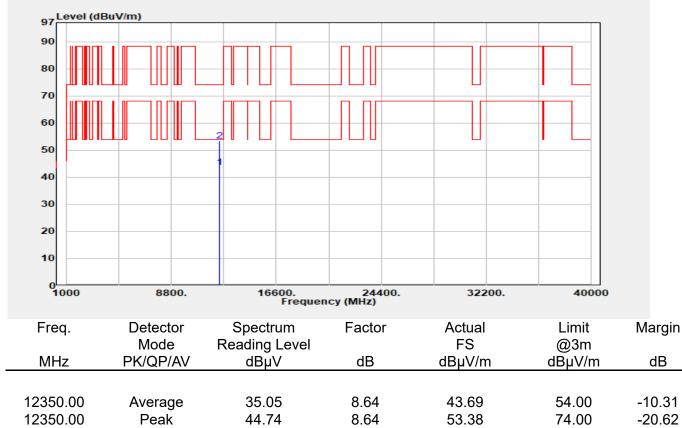
:SAC 1

:2023-11-10 :25°℃/61% :Vertical

:Cooper Hsu



:TERF2309002328ER	Test Site
:802.11a	Test Date
:6175 MHz	Temp./Humi.
:Tx	Antenna Pol.
:H Plane	Engineer
	:802.11a :6175 MHz :Tx



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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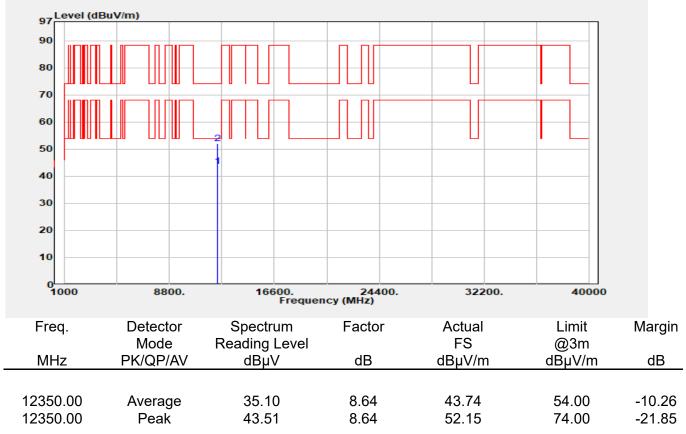
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TERF2309002328ER	Test Site	:SAC 1
:802.11a	Test Date	:2023-11-10
6175 MHz	Temp./Humi.	:25℃/61%
Тх	Antenna Pol.	:Horizontal
:H Plane	Engineer	:Cooper Hsu
-	802.11a 6175 MHz Tx	802.11aTest Date6175 MHzTemp./Humi.TxAntenna Pol.



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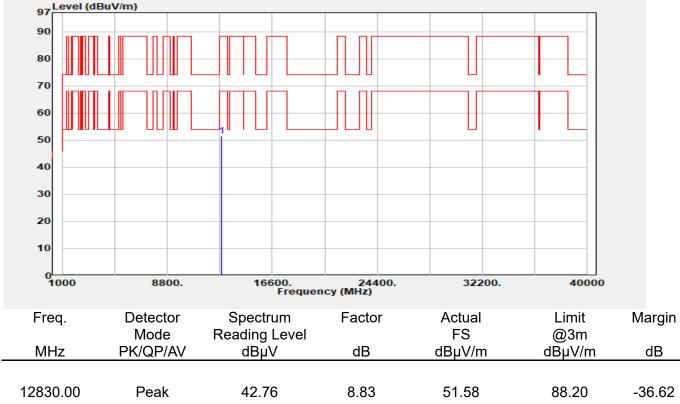
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6415 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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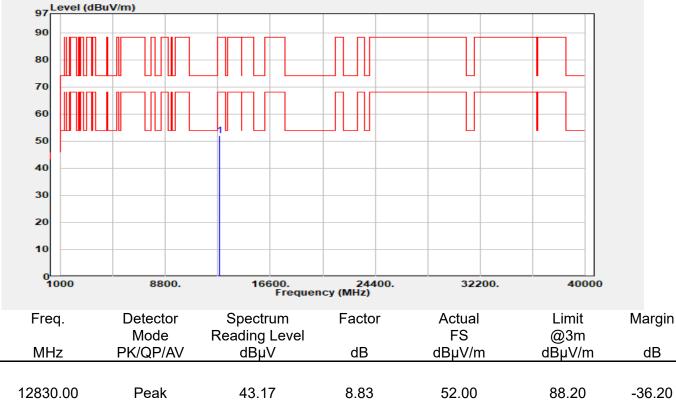
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6415 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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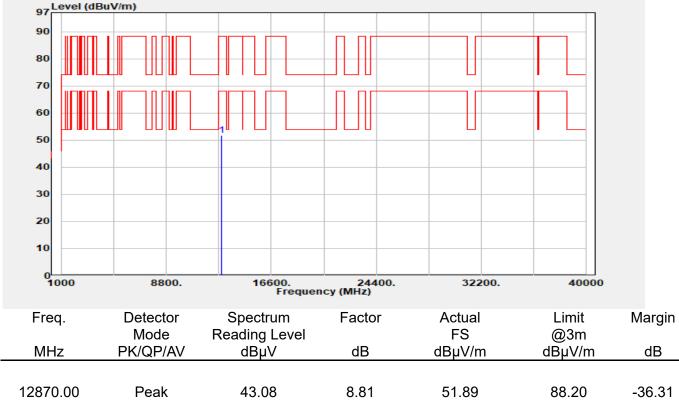
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6435 MHz	Temp./Humi.	: <b>25°</b> ∁/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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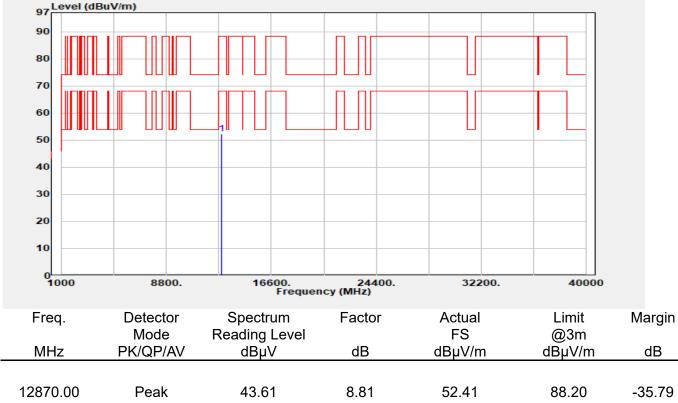
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6435 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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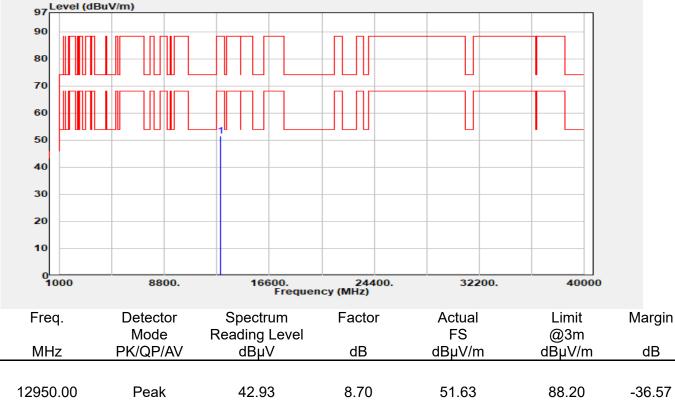
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6475 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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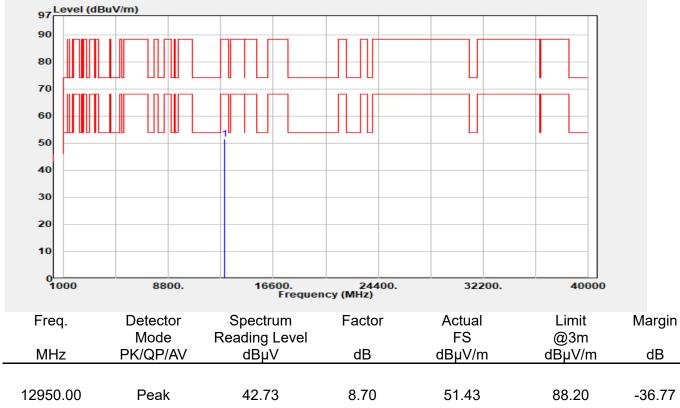
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6475 MHz	Temp./Humi.	:25°∁/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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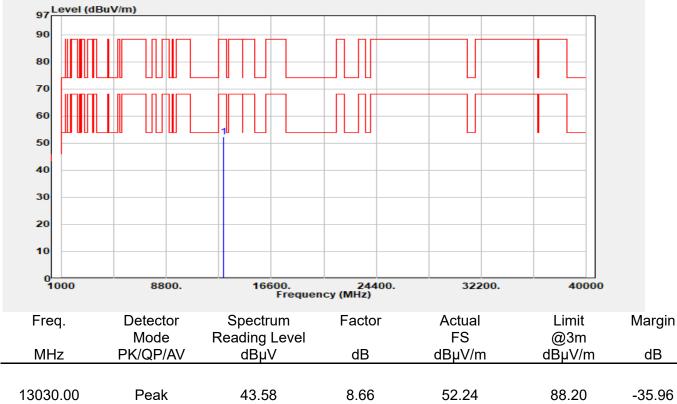
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6515 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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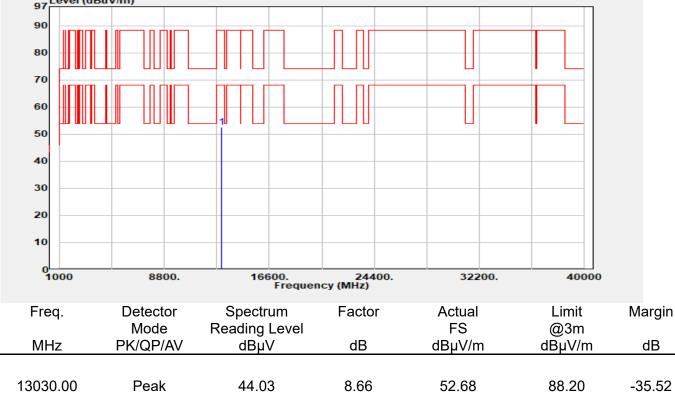
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6515 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu
Level (dBuV/n	n)		



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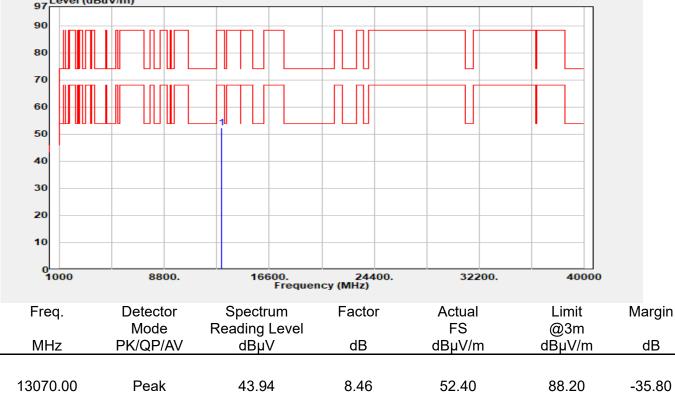
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6535 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu
oz Level (dBuV/n	n)		



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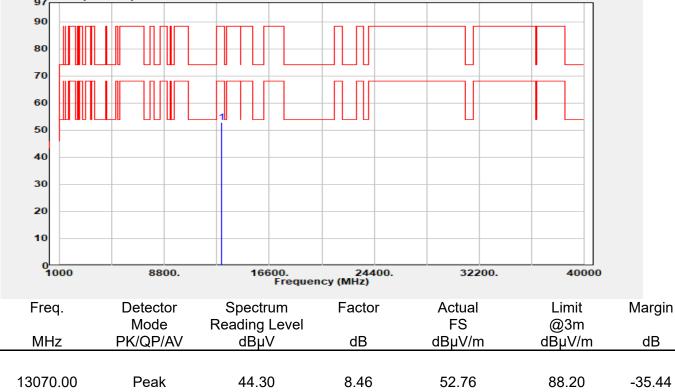
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6535 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu
97 Level (dBuV/n	n)		



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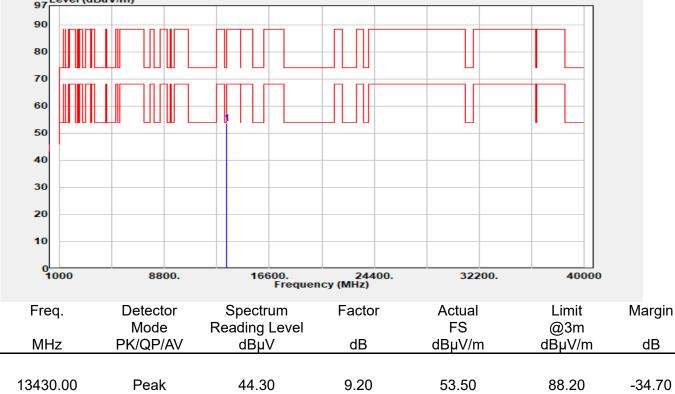
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6715 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu
Level (dBuV/n	n)		



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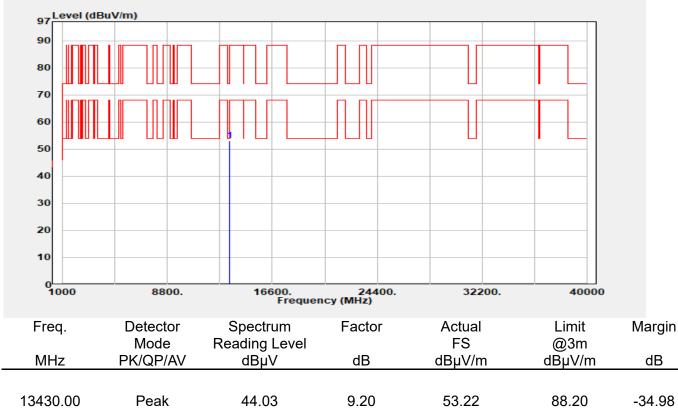
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6715 MHz	Temp./Humi.	: <b>25°</b> ∁/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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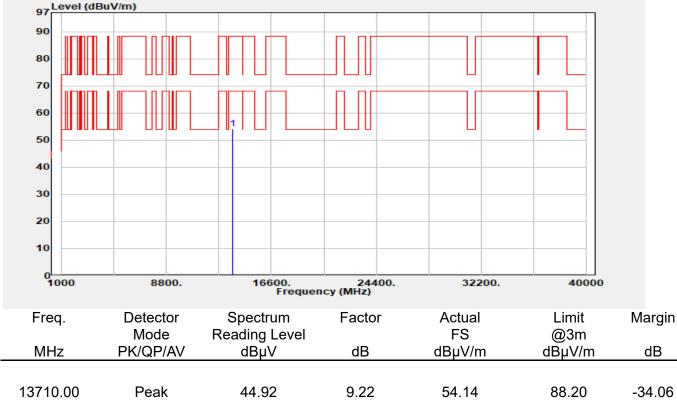
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6855 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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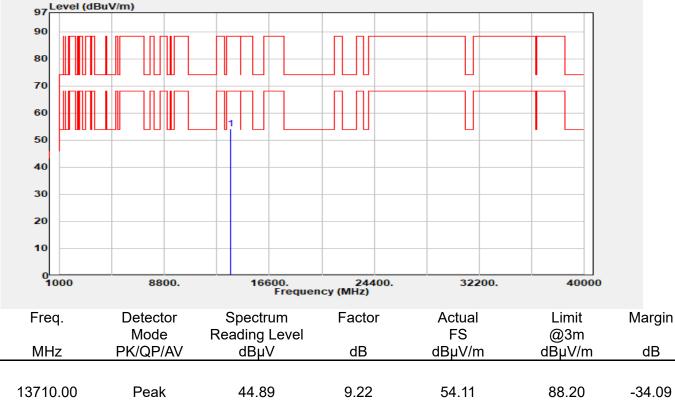
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6855 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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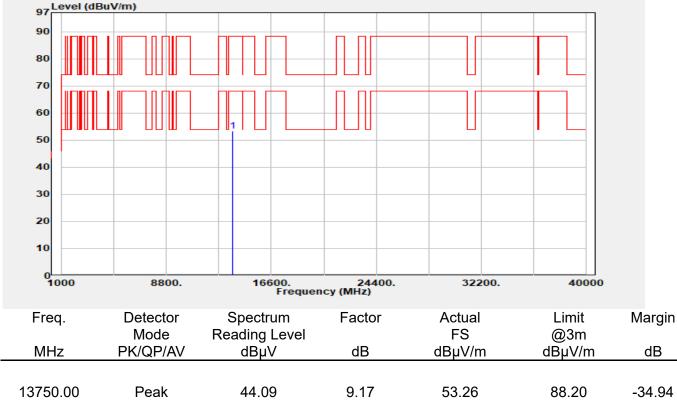
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6875 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



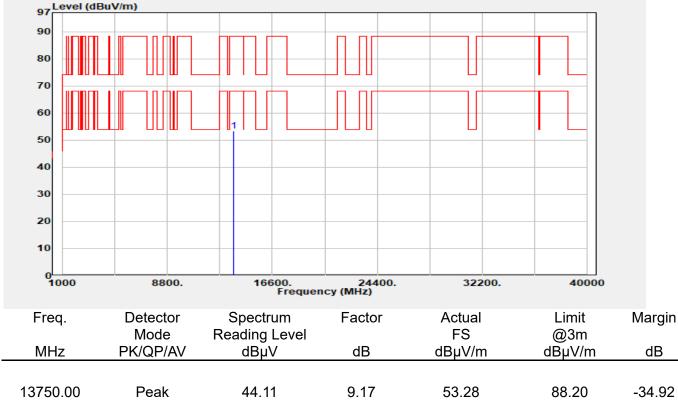
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:6875 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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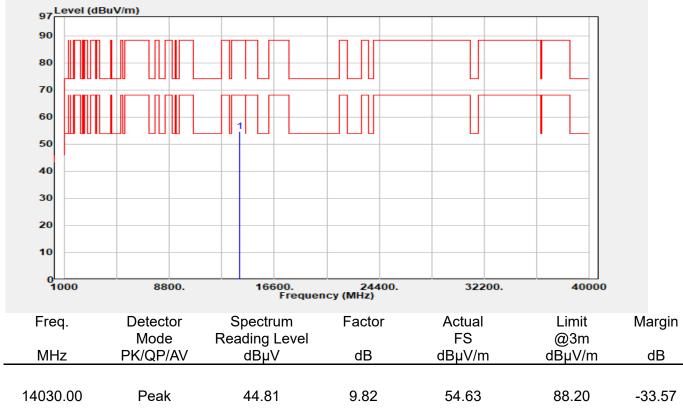
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:7015 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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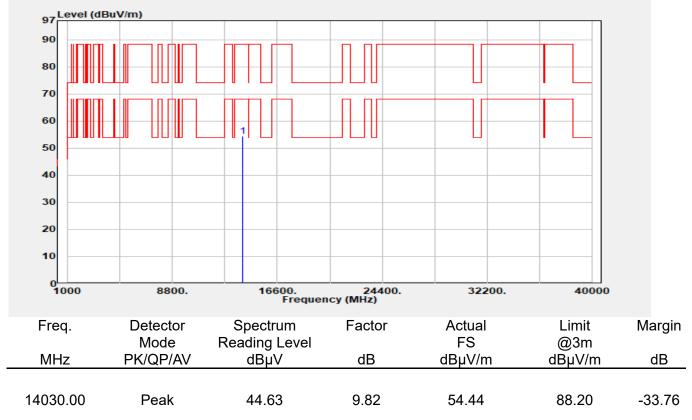
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:7015 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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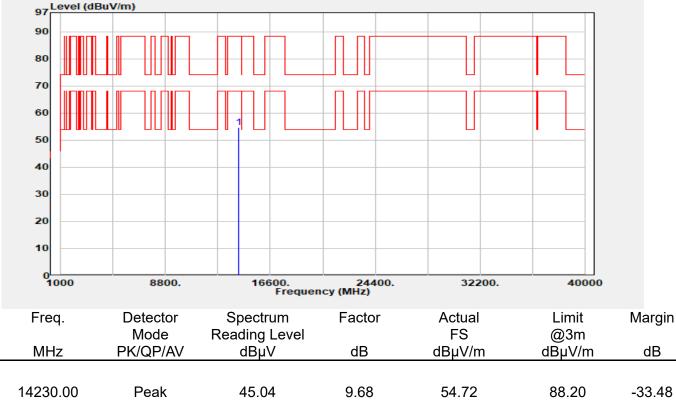
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:7115 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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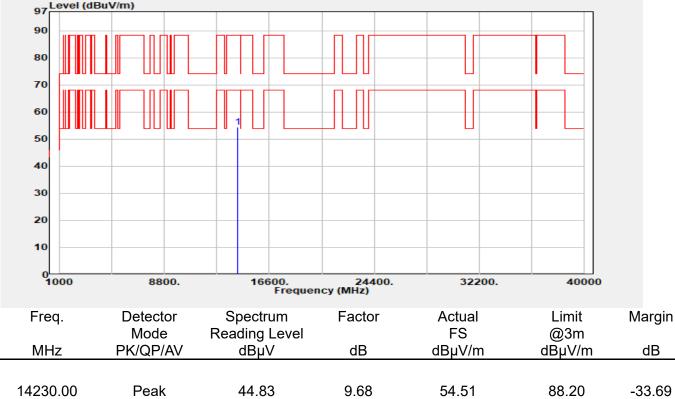
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-11-10
Test Frequency	:7115 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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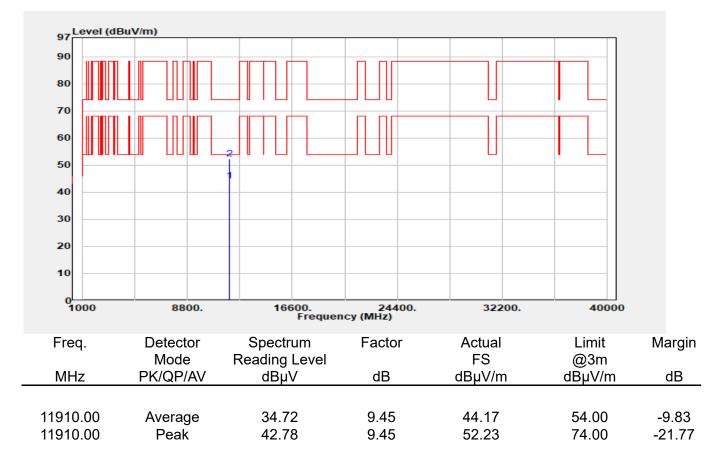
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax20 RU Full **Test Frequency** :5955 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax20 RU Full **Test Frequency** :5955 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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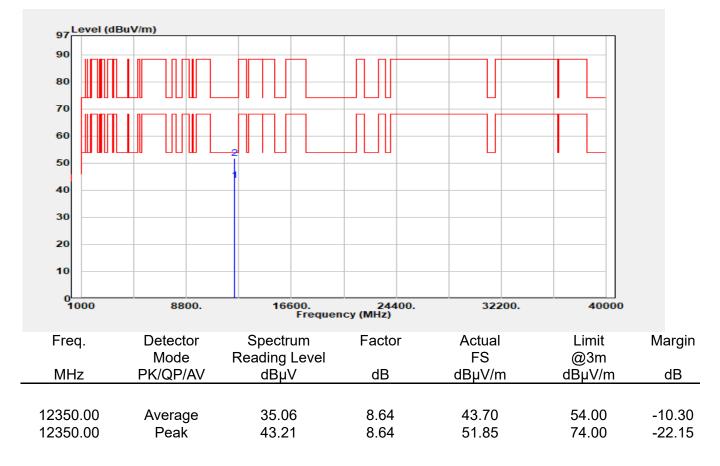
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax20 RU Full **Test Frequency** :6175 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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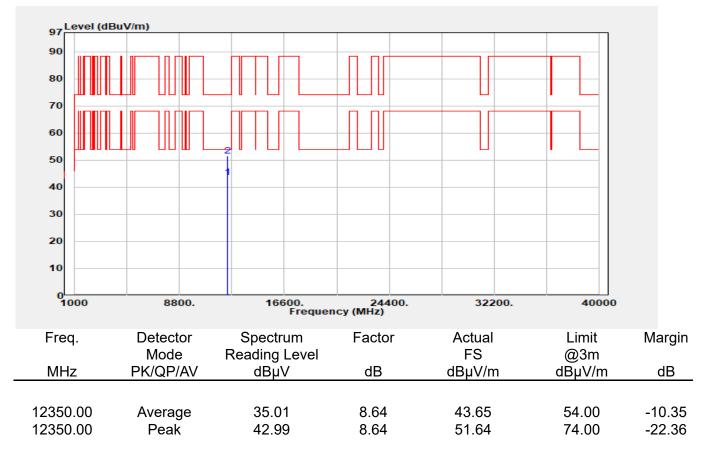
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Report Number	:TERF2309002328ER
Operation Mode	:802.11ax20 RU Full
Test Frequency	:6175 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



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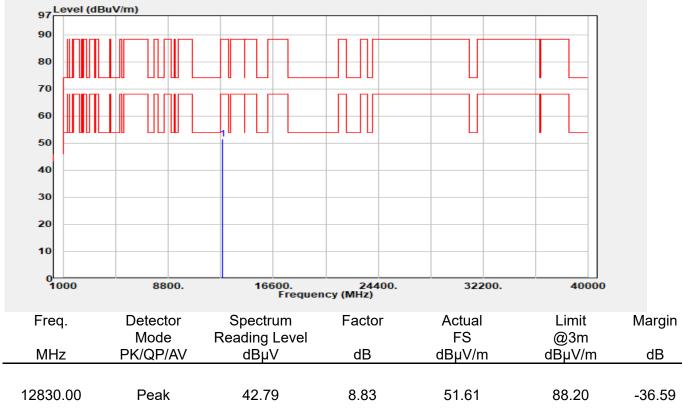
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:6415 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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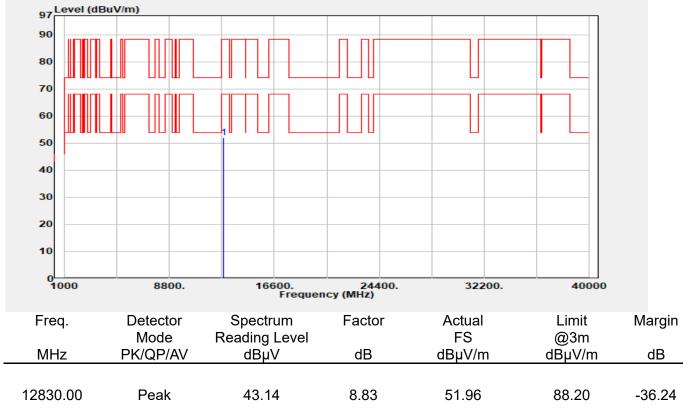
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:6415 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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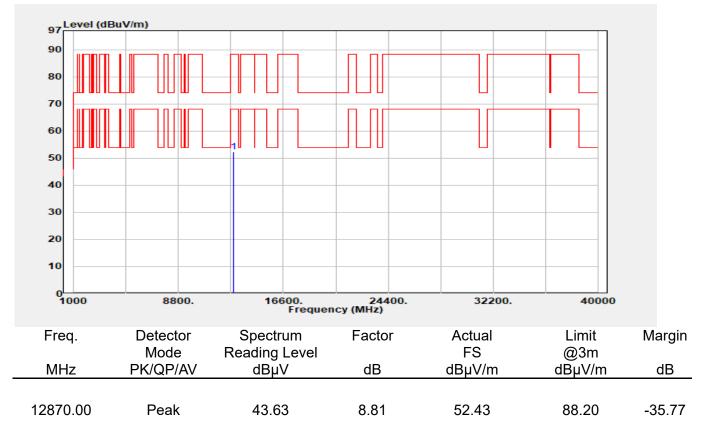
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax20 RU Full **Test Frequency** :6435 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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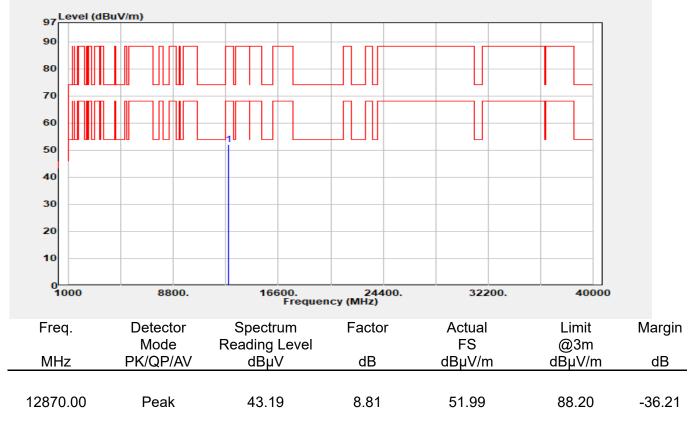
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:TERF2309002328ER	Test Site	:SAC 1
:802.11ax20 RU Full	Test Date	:2023-11-10
:6435 MHz	Temp./Humi.	:25℃/61%
:Tx	Antenna Pol.	:Horizontal
:H Plane	Engineer	:Cooper Hsu
	-	
	:802.11ax20 RU Full :6435 MHz :Tx	:802.11ax20 RU FullTest Date:6435 MHzTemp./Humi.:TxAntenna Pol.



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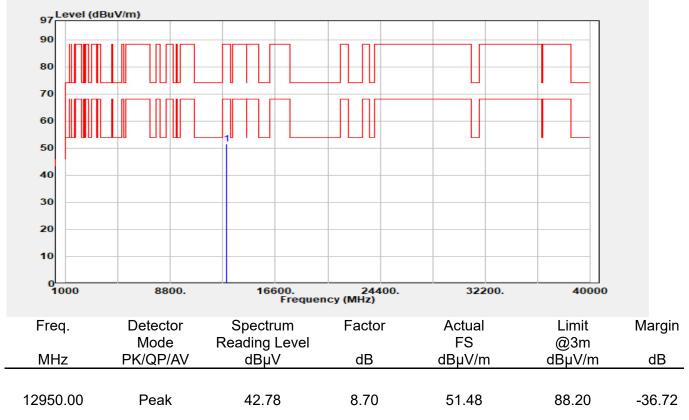
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:6475 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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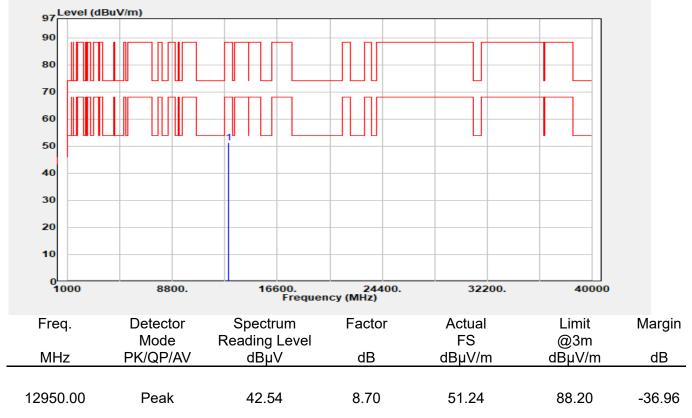
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:6475 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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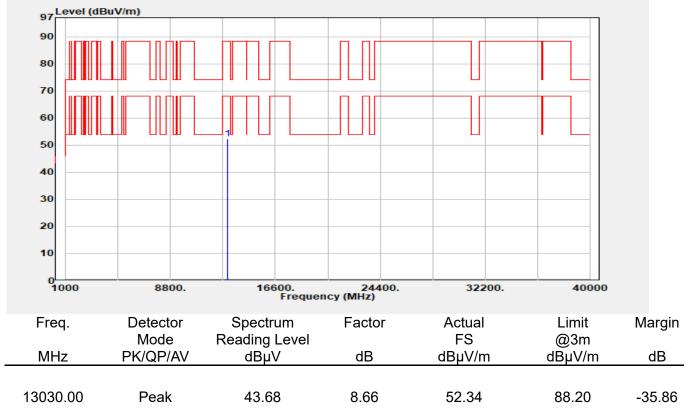
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:6515 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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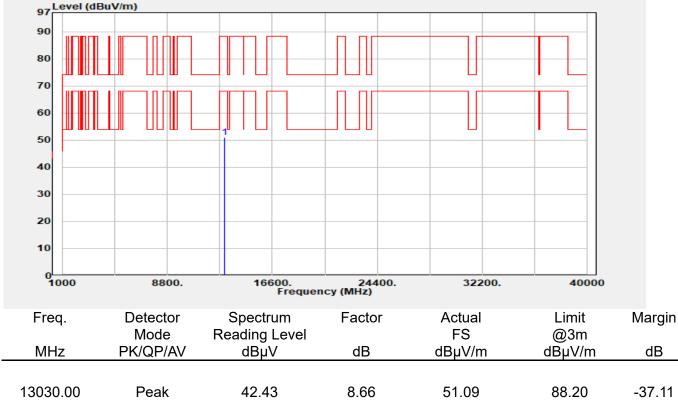
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:6515 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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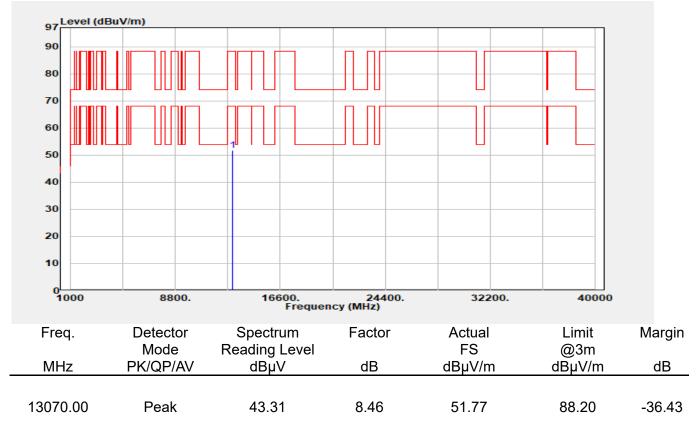
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax20 RU Full **Test Frequency** :6535 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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:SAC 1

:2023-11-10

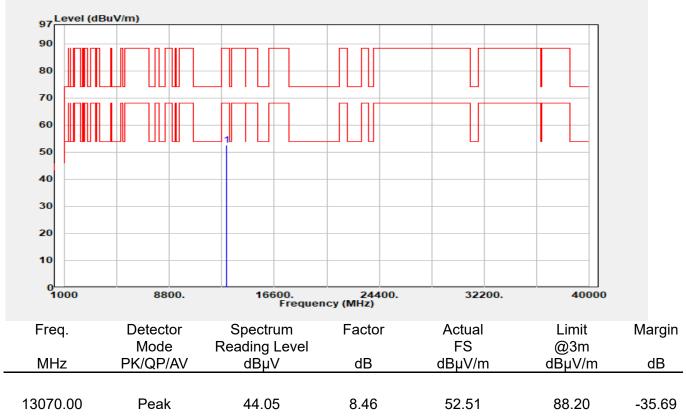
:25°℃/61%

:Horizontal

:Cooper Hsu



**Report Number** Test Site :TERF2309002328ER Test Date **Operation Mode** :802.11ax20 RU Full **Test Frequency** Temp./Humi. :6535 MHz Test Mode :Tx Antenna Pol. EUT Pol :H Plane Engineer



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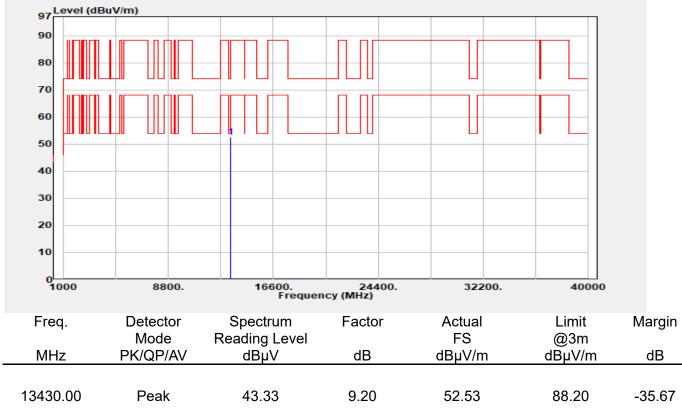
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:6715 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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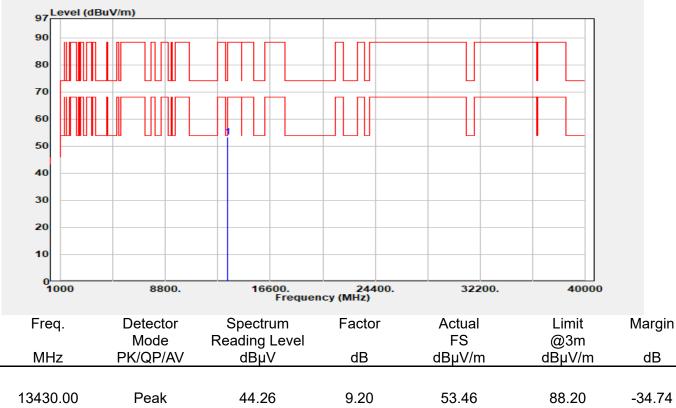
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**Report Number** Test Site :SAC 1 :TERF2309002328ER Test Date **Operation Mode** :802.11ax20 RU Full :2023-11-10 **Test Frequency** Temp./Humi. :25°℃/61% :6715 MHz Test Mode :Tx Antenna Pol. :Horizontal EUT Pol :H Plane Engineer :Cooper Hsu



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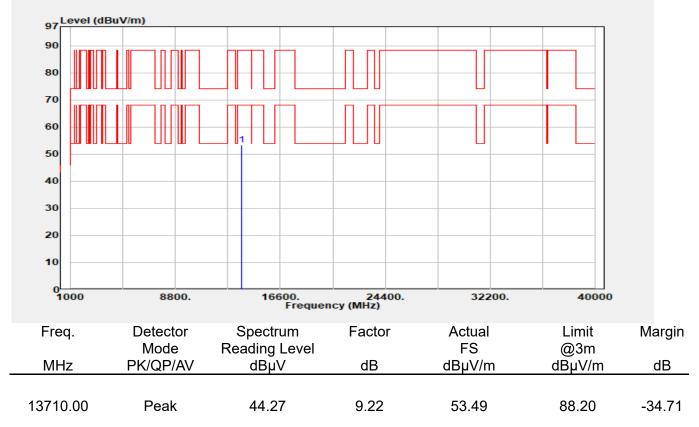
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**Report Number** Test Site :TERF2309002328ER Test Date **Operation Mode** :802.11ax20 RU Full **Test Frequency** :6855 MHz Test Mode :Tx EUT Pol :H Plane Engineer





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:SAC 1

:2023-11-10

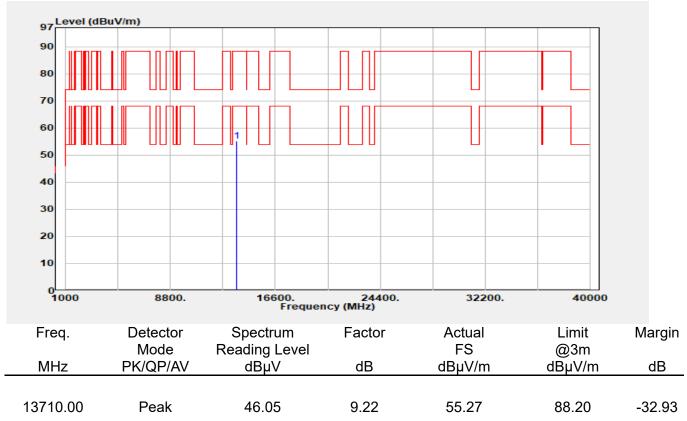
:25°℃/61%

:Horizontal

:Cooper Hsu



**Report Number** Test Site :TERF2309002328ER Test Date **Operation Mode** :802.11ax20 RU Full **Test Frequency** Temp./Humi. :6855 MHz Test Mode :Tx Antenna Pol. EUT Pol :H Plane Engineer



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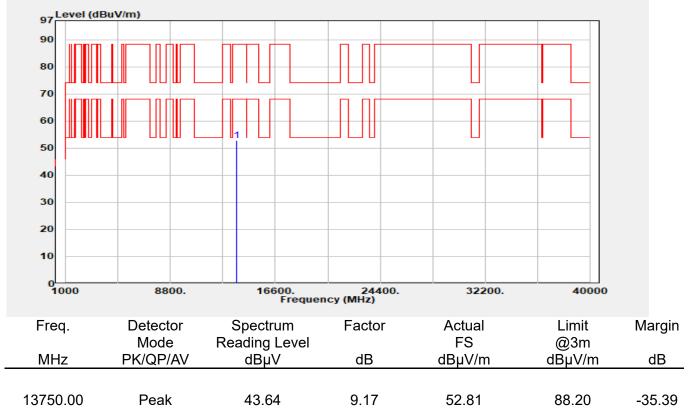
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:6875 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



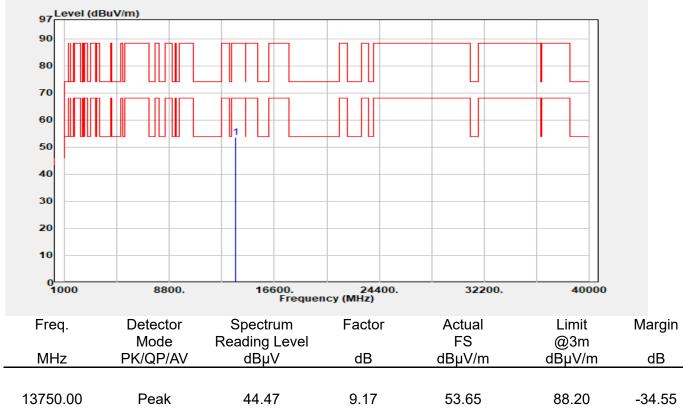
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:6875 MHz	Temp./Humi.	: <b>25°</b> ∁/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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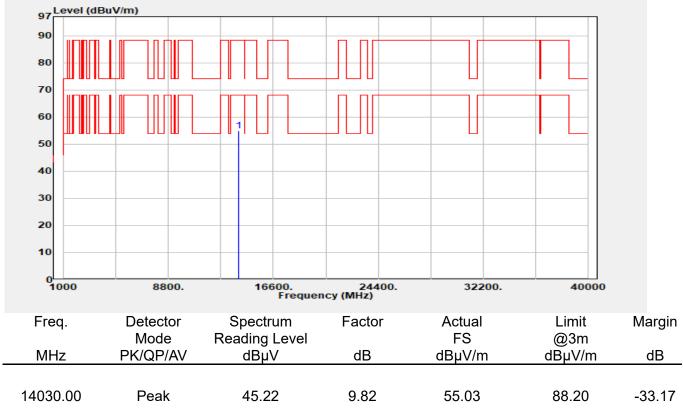
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:7015 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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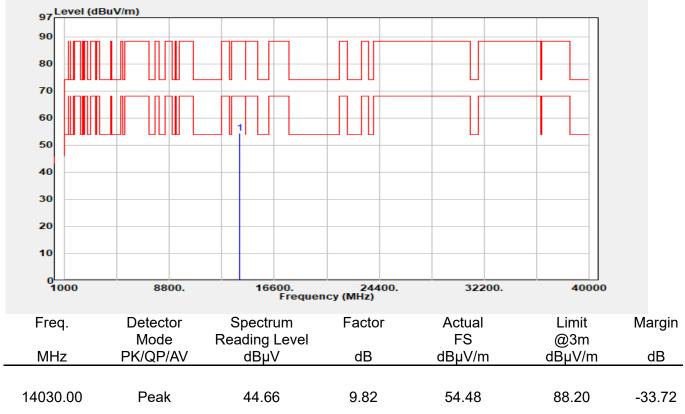
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:7015 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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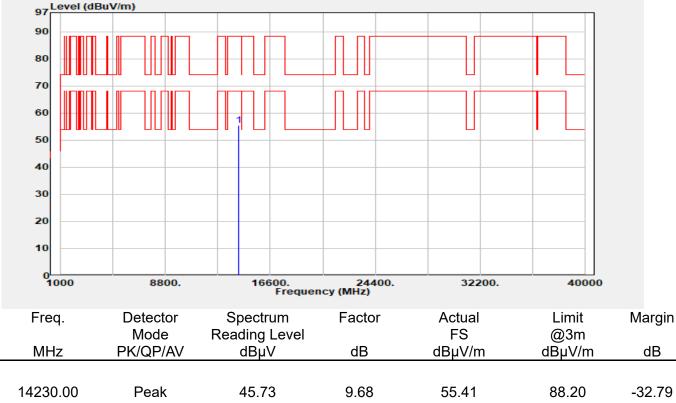
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:7115 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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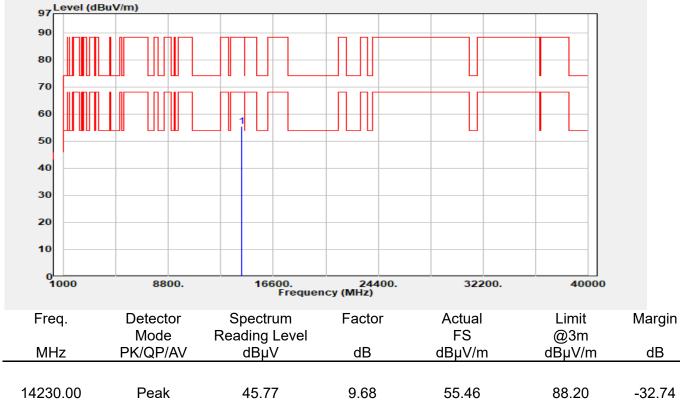
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Report Number	:TERF2309002328ER	Test Site	:SAC 1
Operation Mode	:802.11ax20 RU Full	Test Date	:2023-11-10
Test Frequency	:7115 MHz	Temp./Humi.	:25℃/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Cooper Hsu



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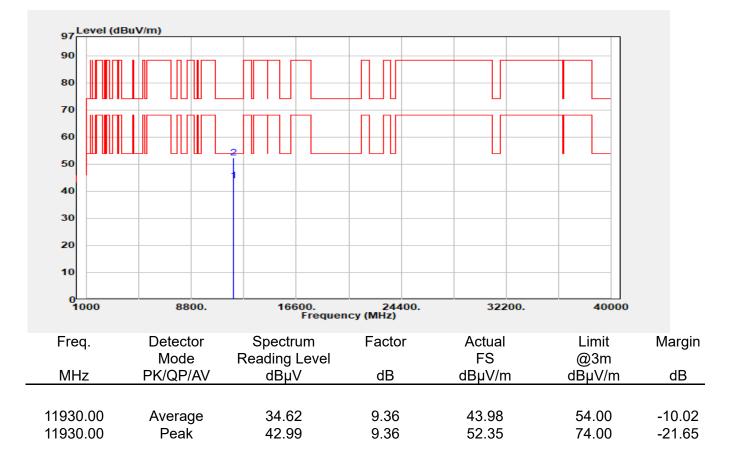
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :5965 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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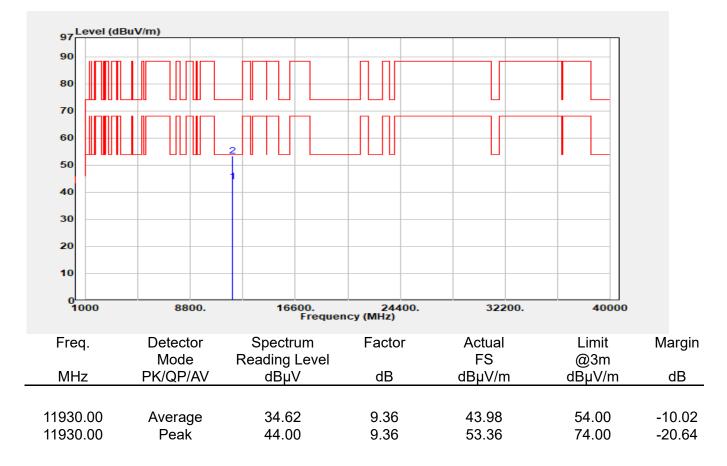
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :5965 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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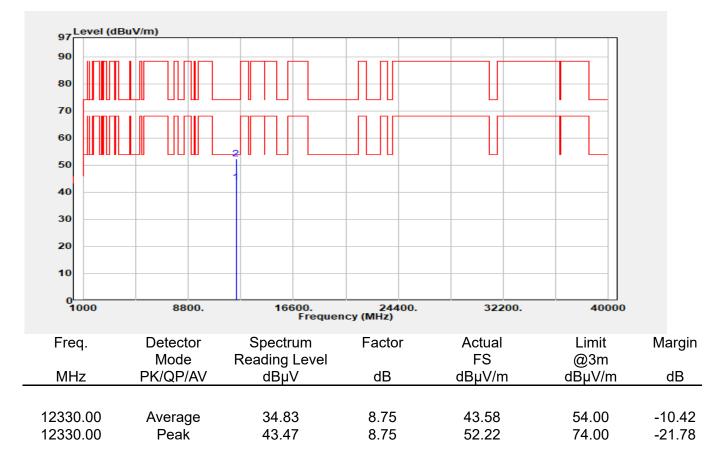
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6165 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6165 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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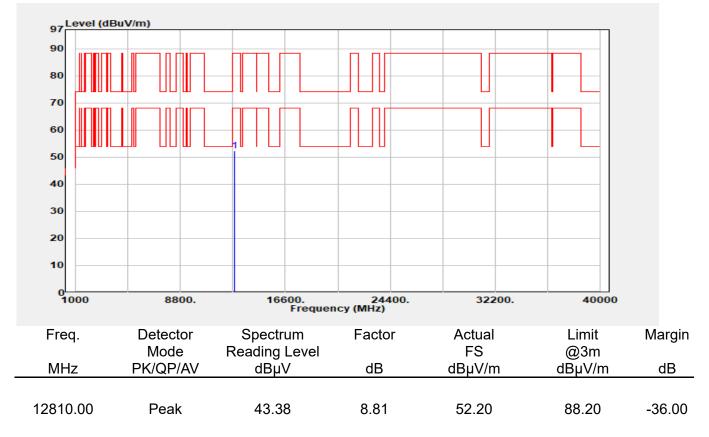
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6405 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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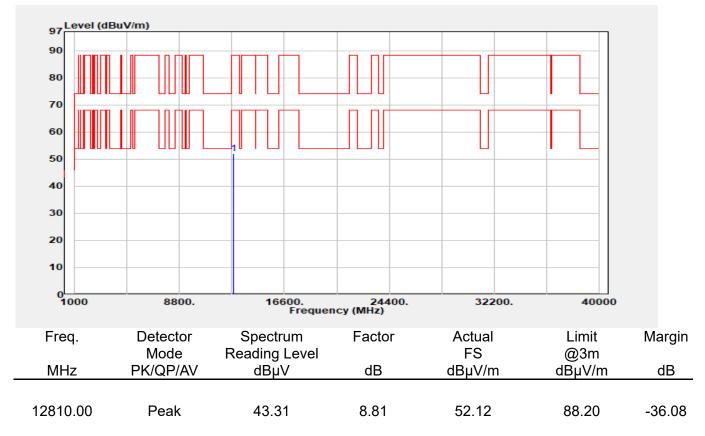
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6405 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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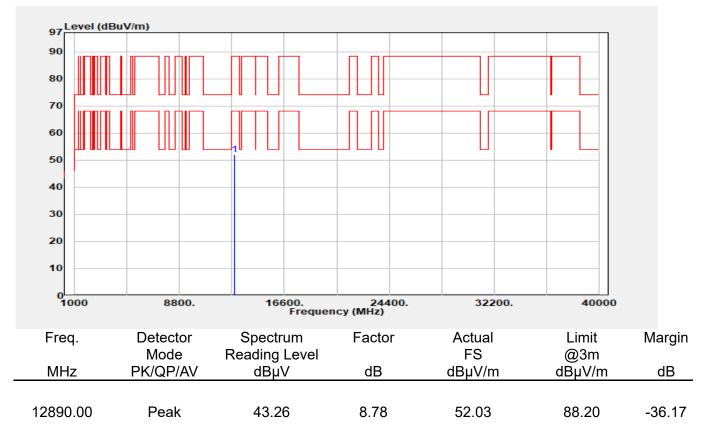
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6445 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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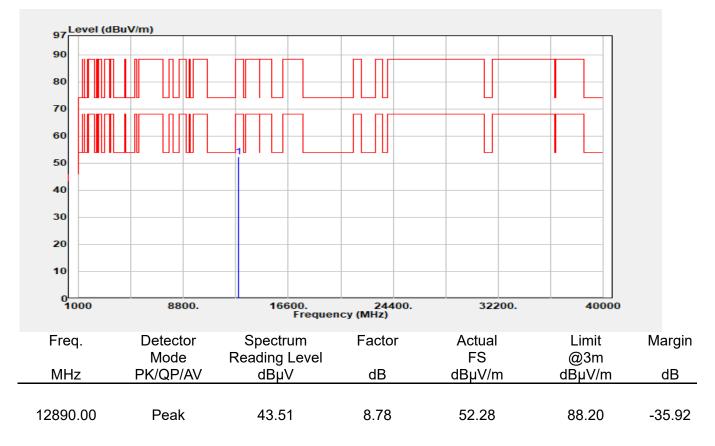
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6445 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



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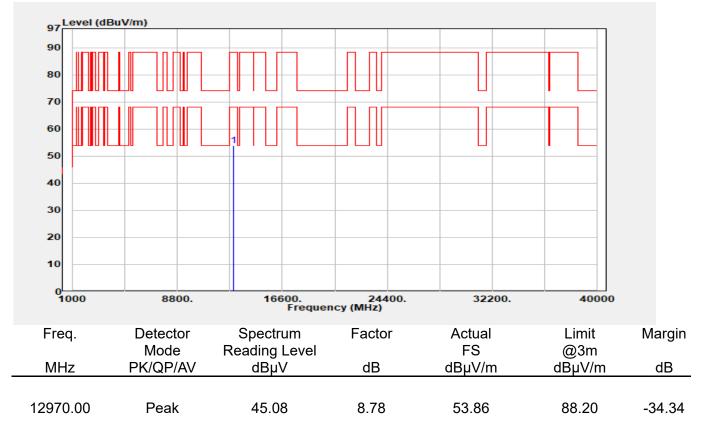
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6485 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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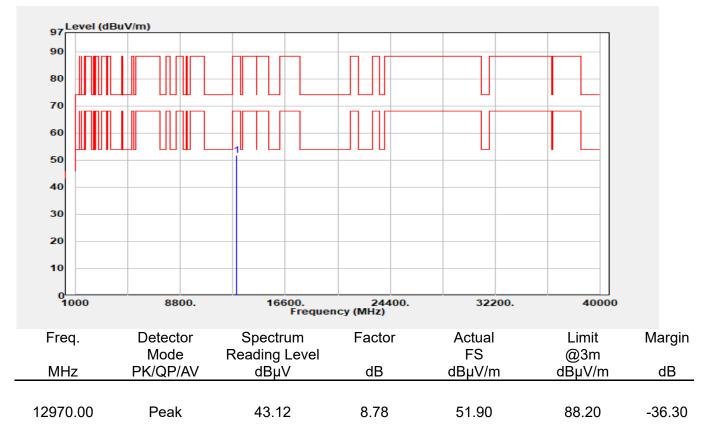
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6485 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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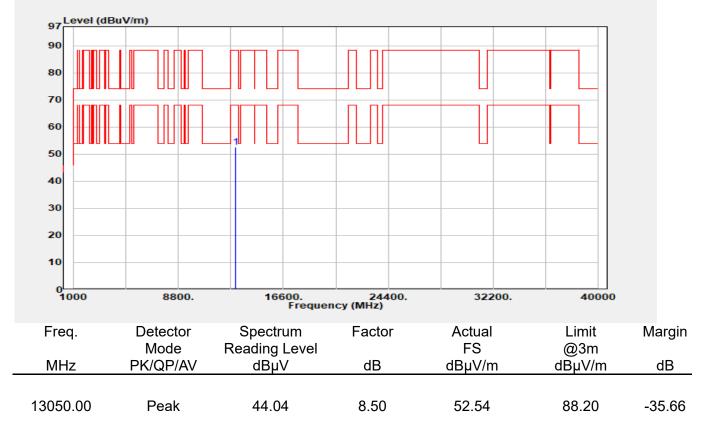
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**Report Number** Test Site :TERF2309002328ER Test Date **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6525 MHz Test Mode :Tx EUT Pol :H Plane Engineer





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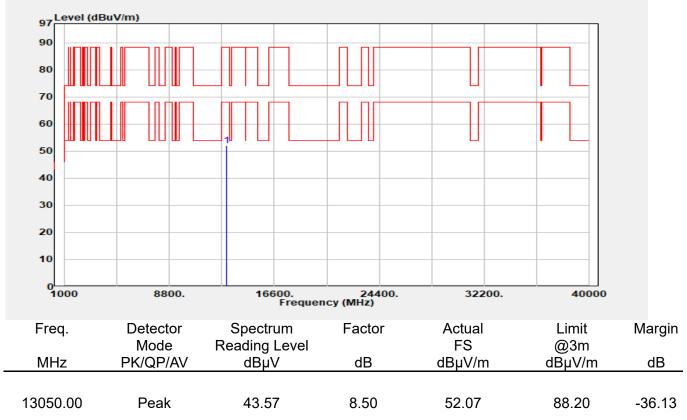
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**Report Number** Test Site :SAC 1 :TERF2309002328ER Test Date **Operation Mode** :802.11ax40 RU Full :2023-11-10 **Test Frequency** Temp./Humi. :25°℃/61% :6525 MHz Test Mode :Tx Antenna Pol. :Horizontal EUT Pol :H Plane Engineer :Cooper Hsu



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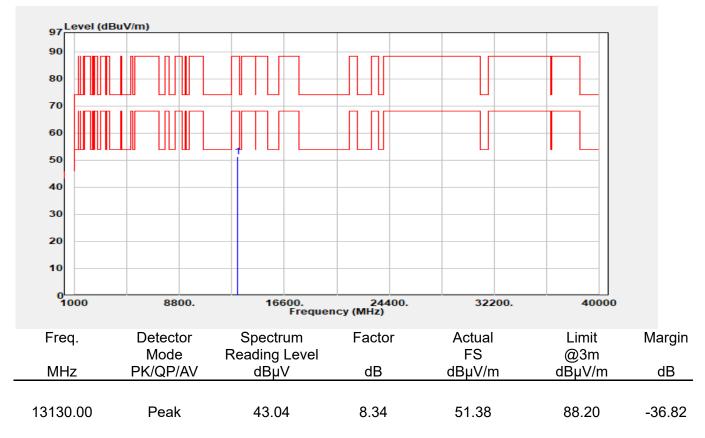
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6565 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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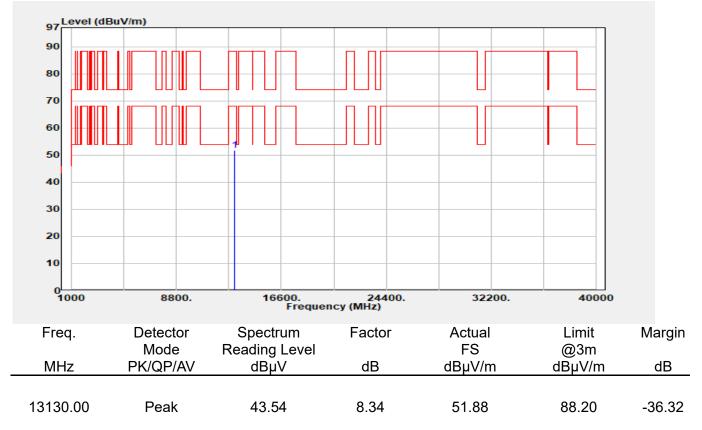
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6565 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



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Report No.: TERF2309002328ER Page: 93 of 138

:SAC 1

:2023-11-10

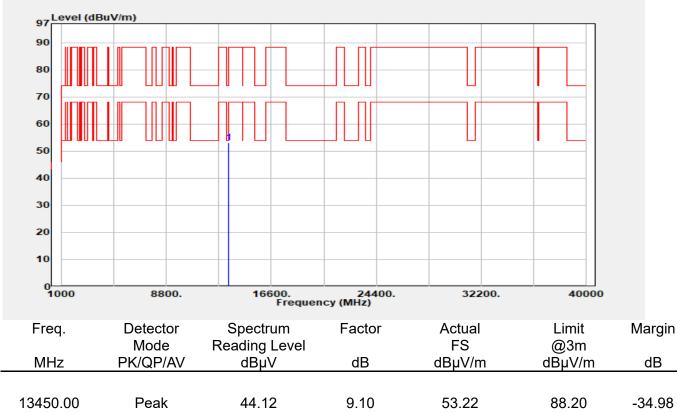
:Cooper Hsu

:25°℃/61%

:Vertical



**Report Number** Test Site :TERF2309002328ER Test Date **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6725 MHz Temp./Humi. Test Mode :Tx Antenna Pol. EUT Pol :H Plane Engineer



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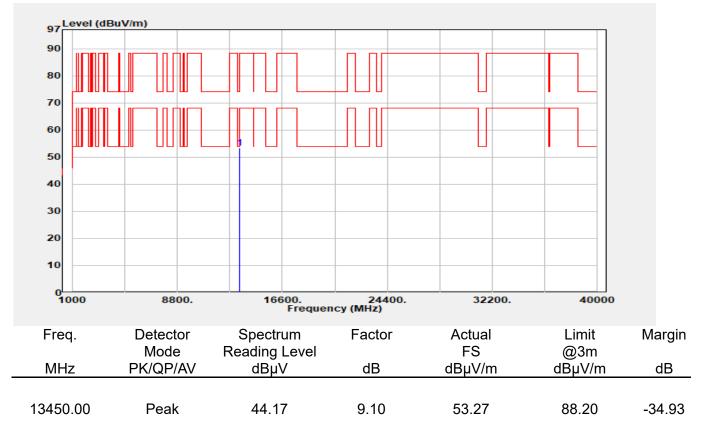
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6725 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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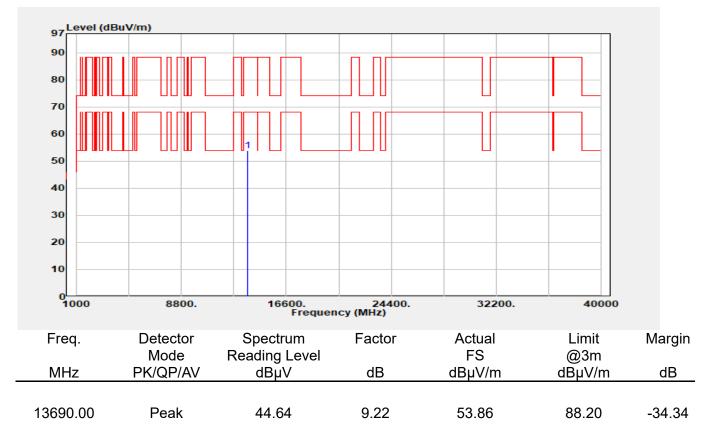
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6845 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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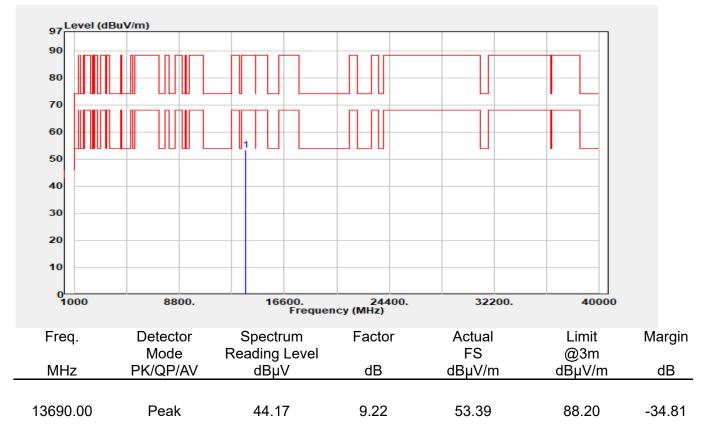
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6845 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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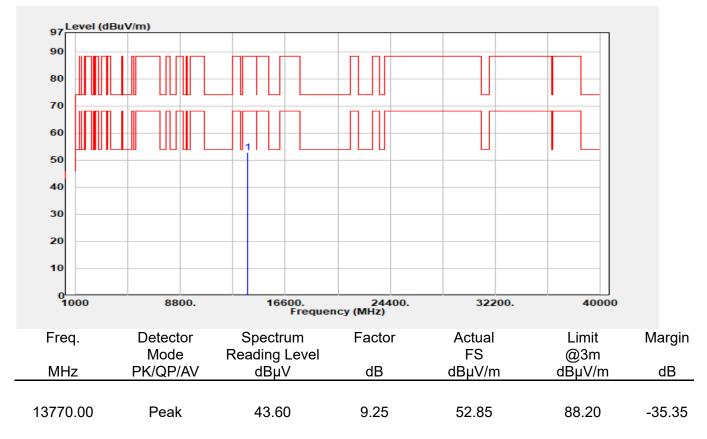
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6885 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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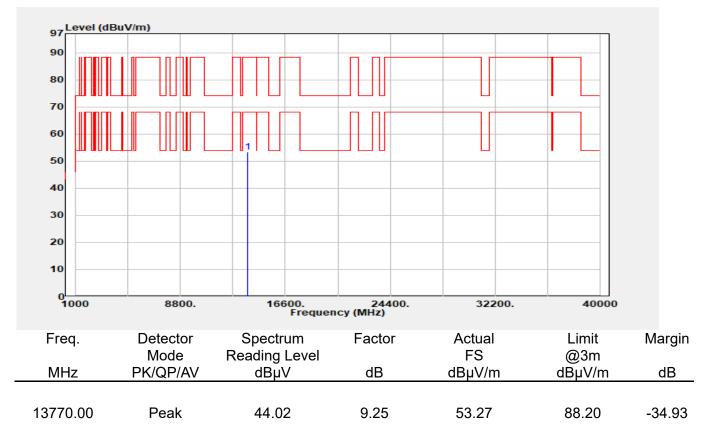
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :6885 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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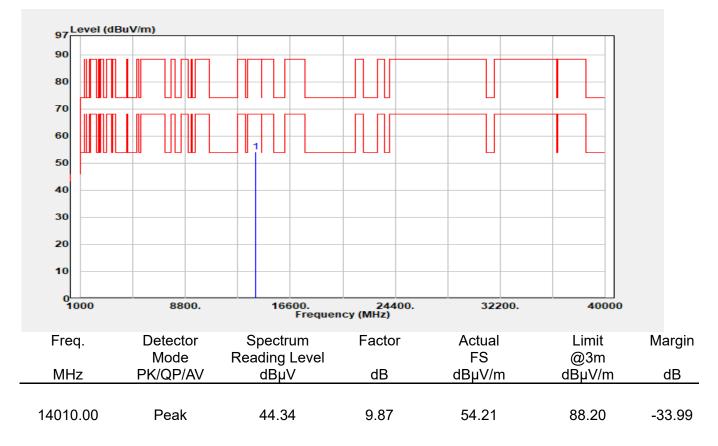
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :7005 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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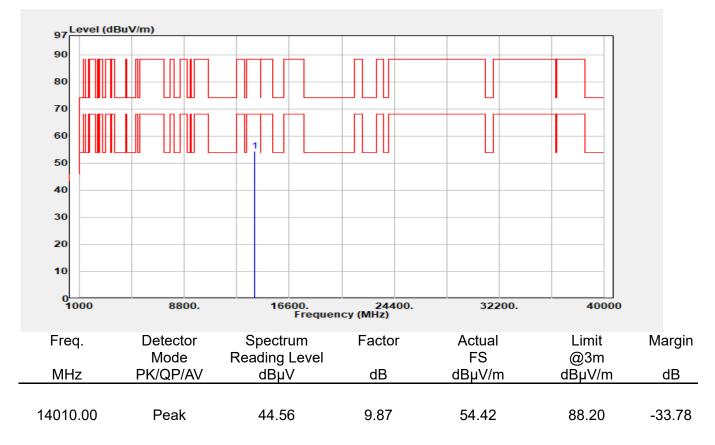
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :7005 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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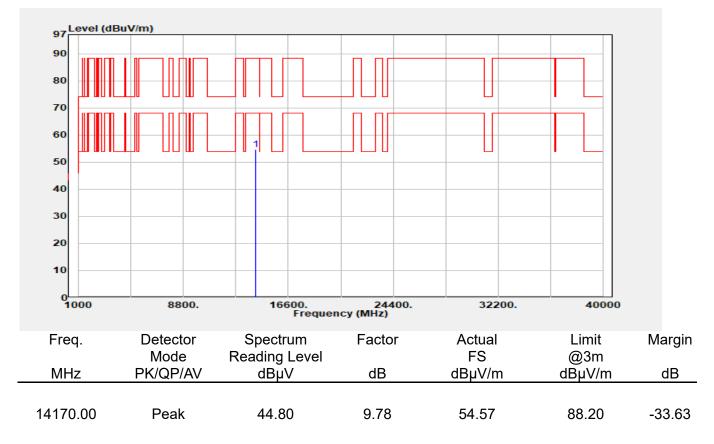
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :7085 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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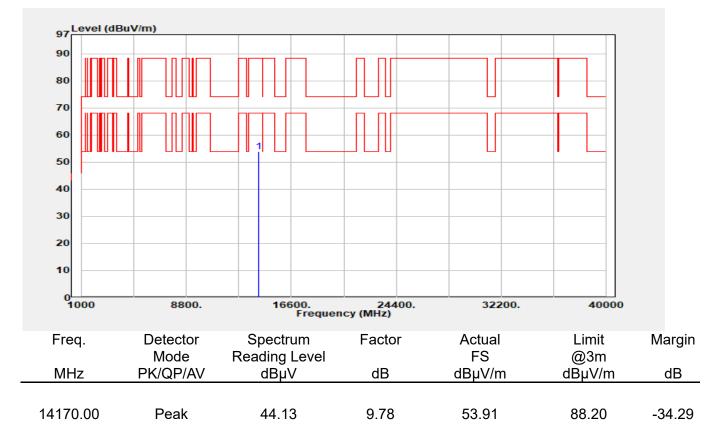
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax40 RU Full **Test Frequency** :7085 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



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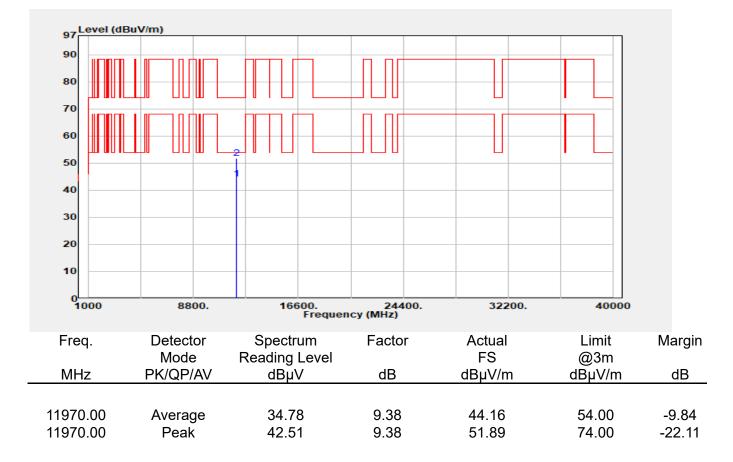
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :5985 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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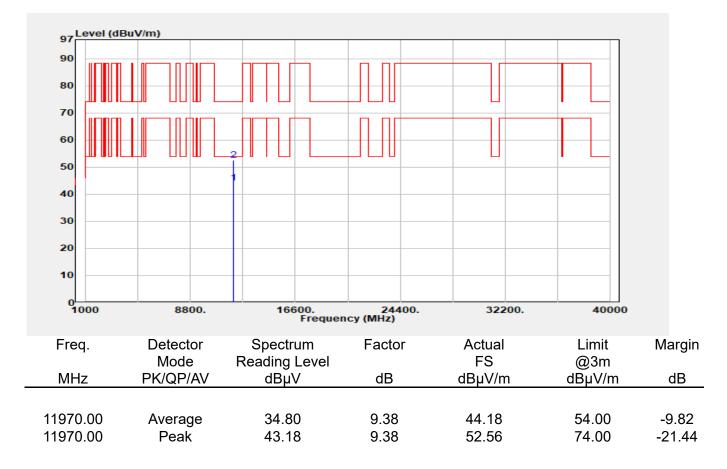
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :5985 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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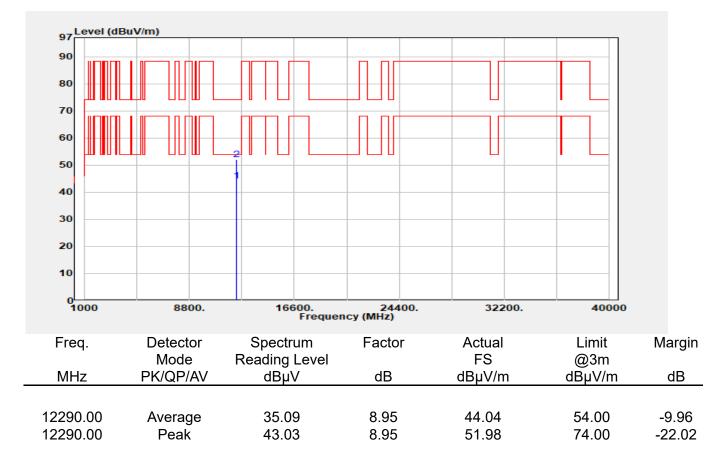
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6145 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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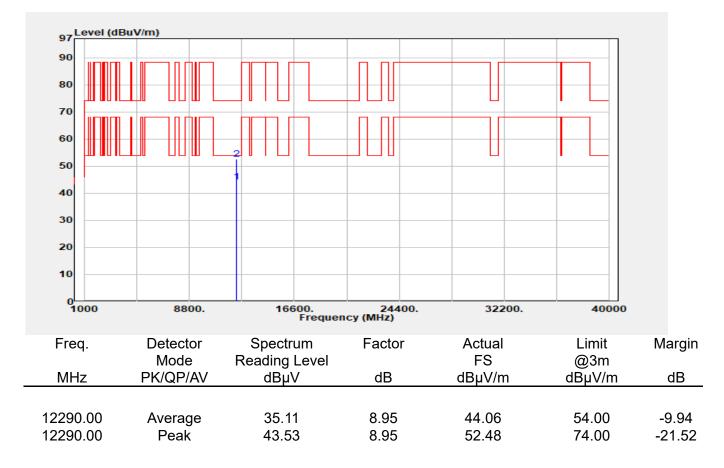
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6145 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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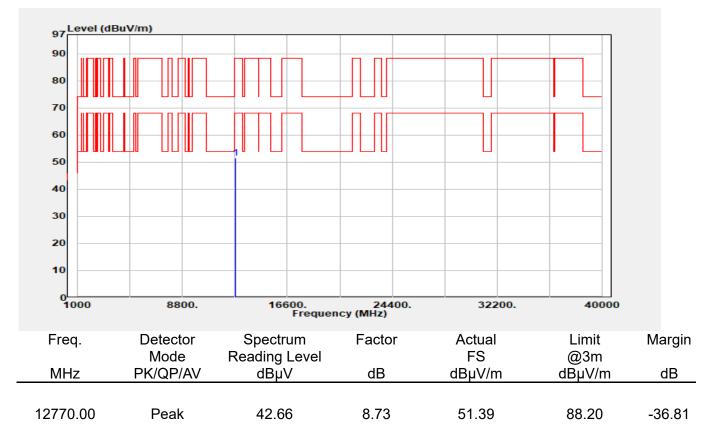
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6385 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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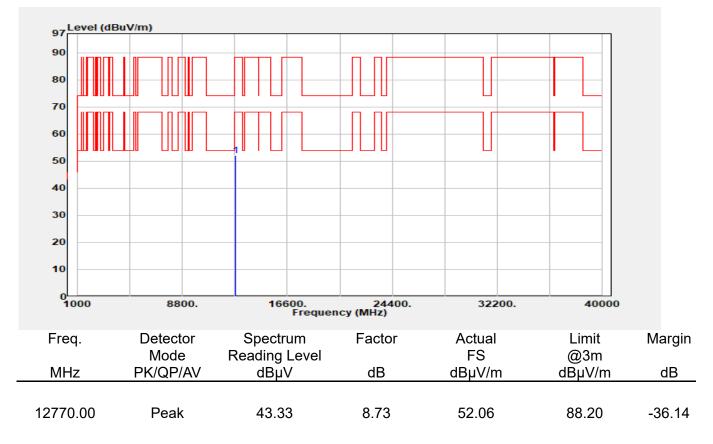
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6385 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



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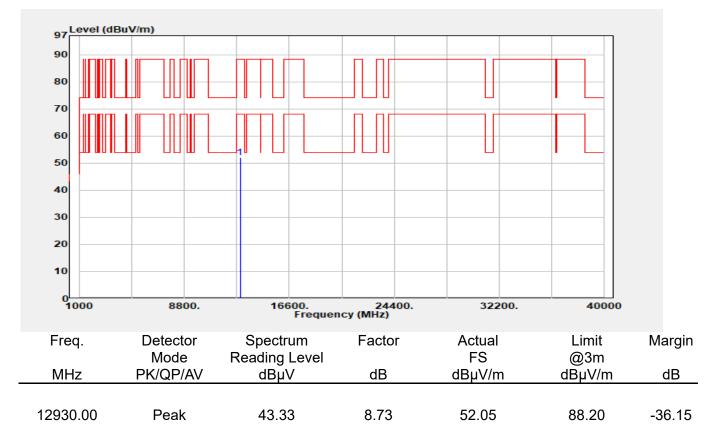
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6465 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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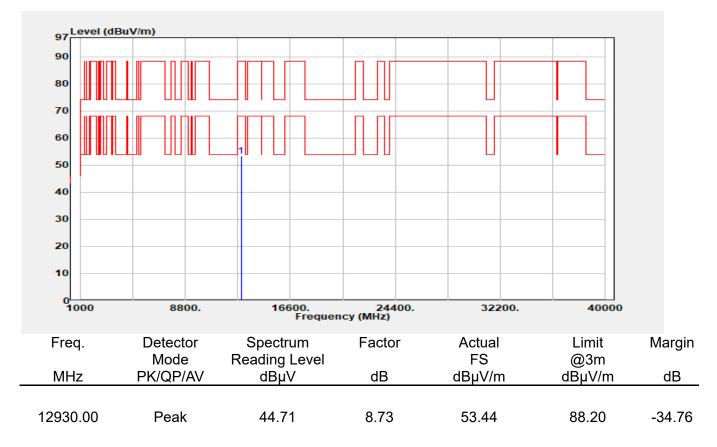
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6465 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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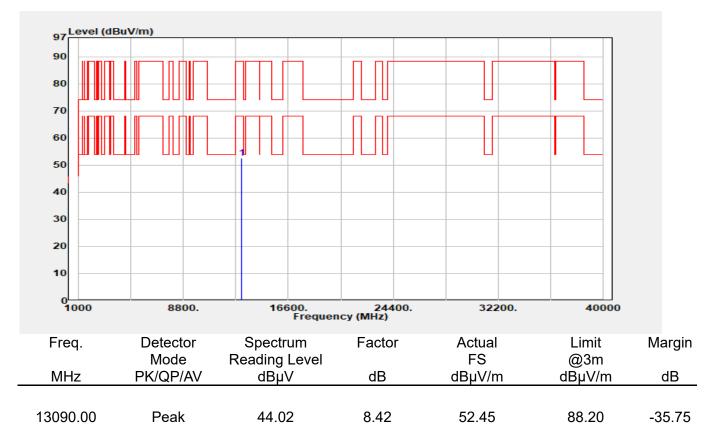
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6545 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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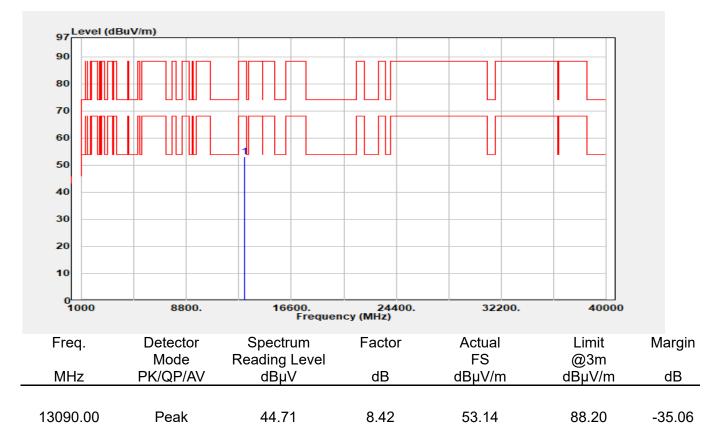
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6545 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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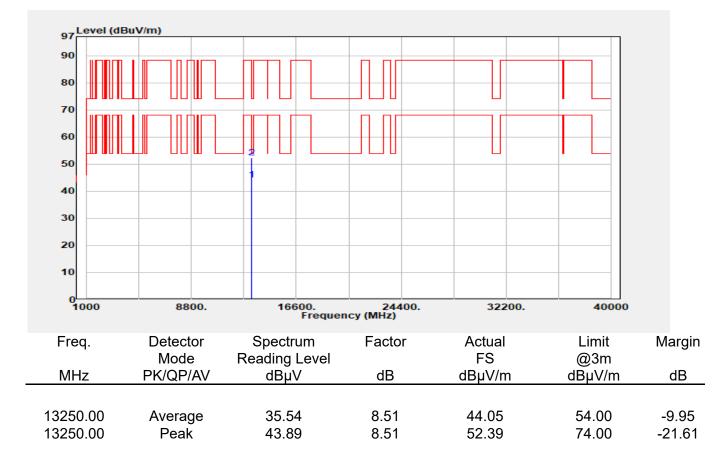
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6625 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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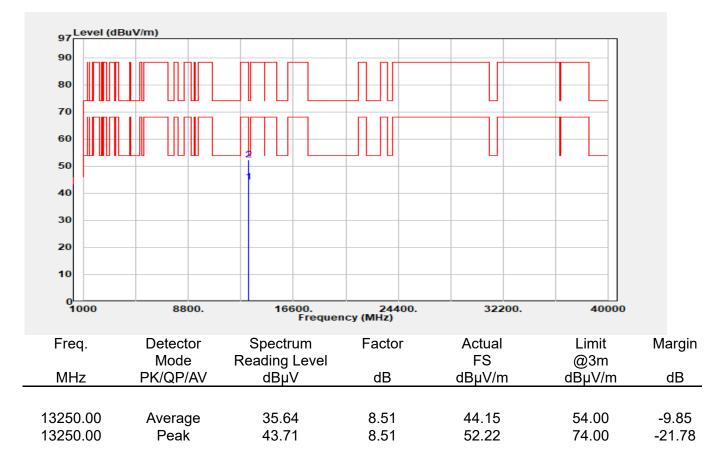
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6625 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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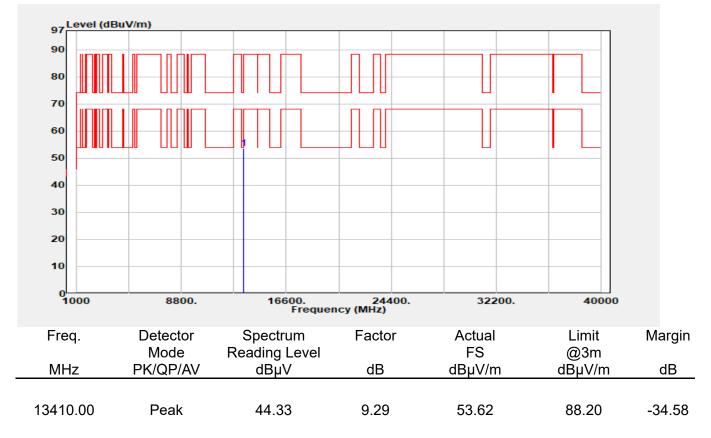
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6705 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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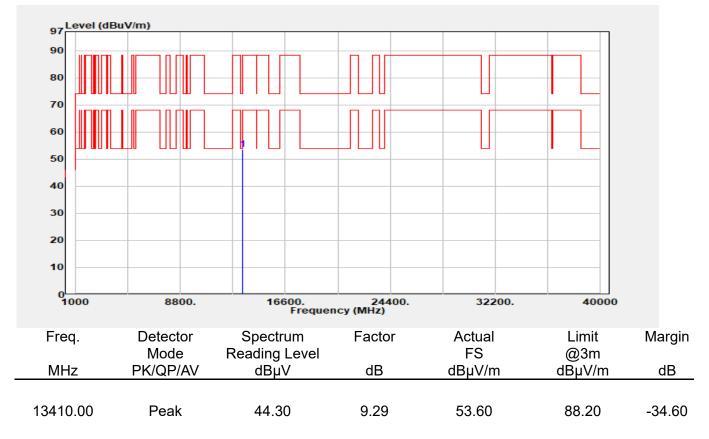
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6705 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



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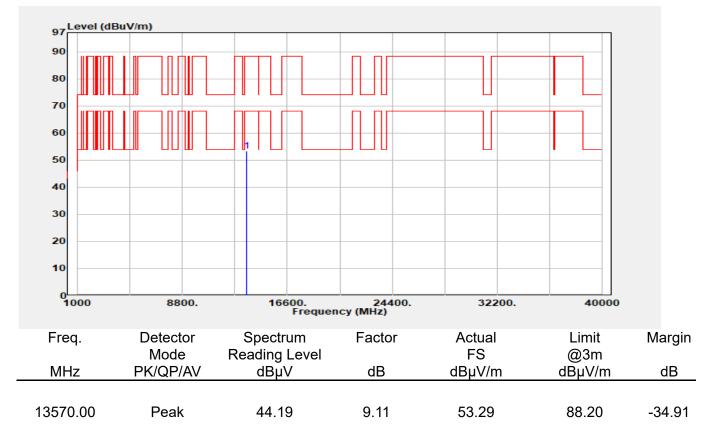
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6785 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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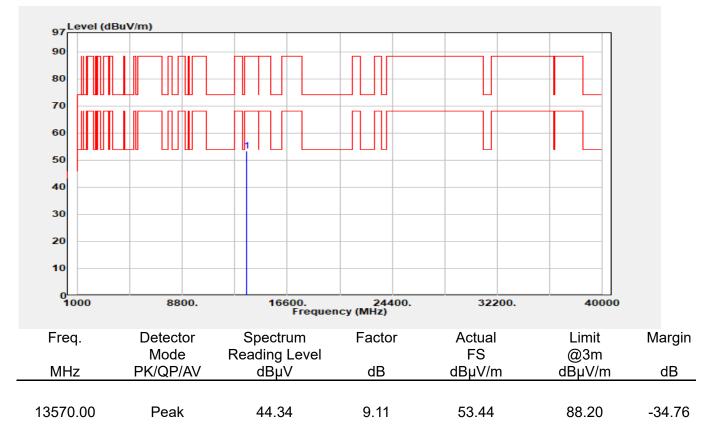
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6785 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



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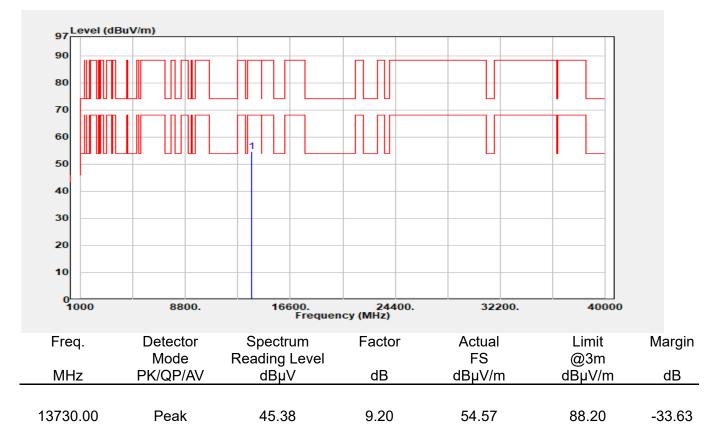
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6865 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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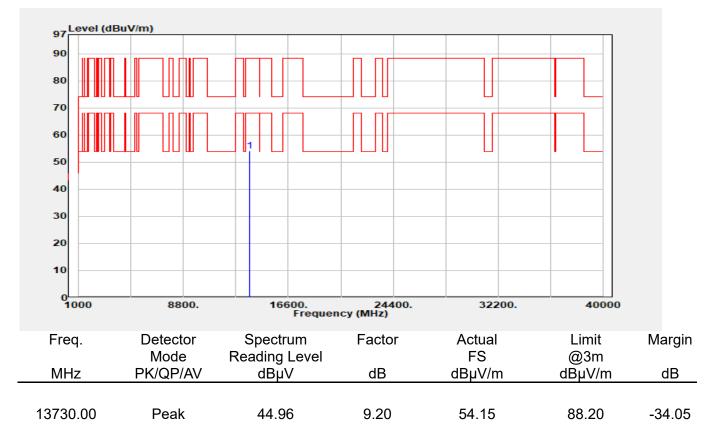
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6865 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



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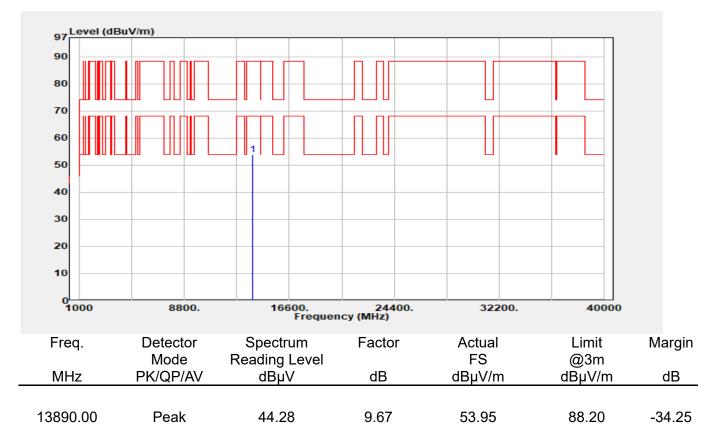
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6945 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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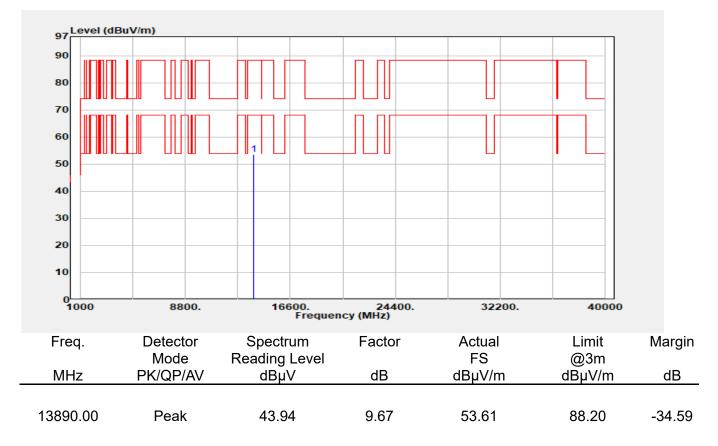
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :6945 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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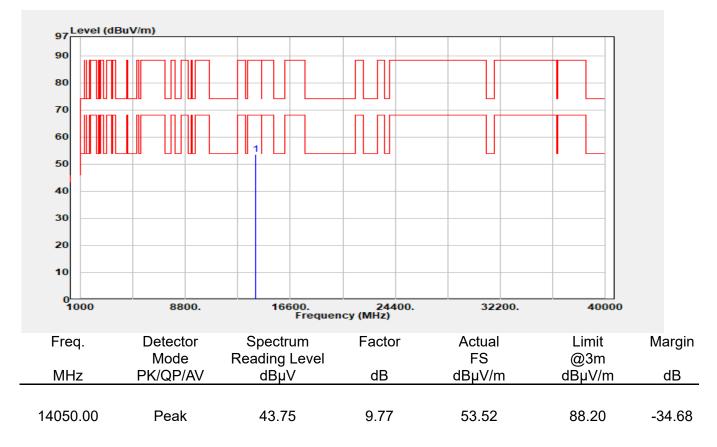
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :7025 MHz Test Mode :Tx EUT Pol :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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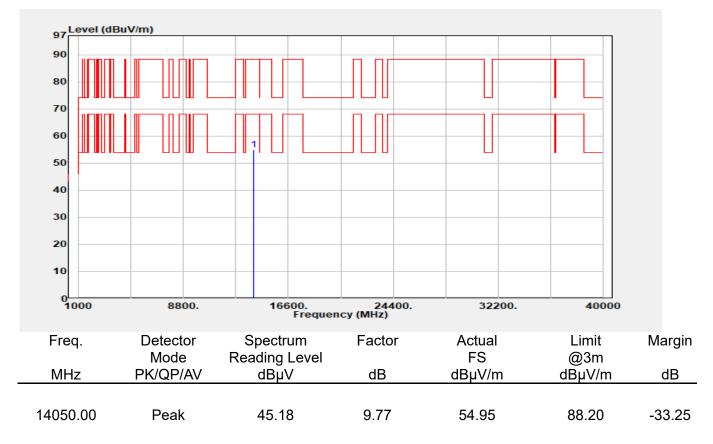
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax80 RU Full **Test Frequency** :7025 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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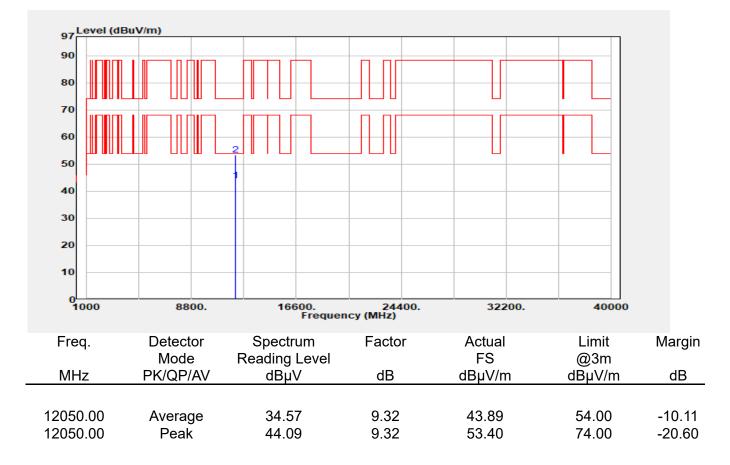
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**Report Number** :TERF2309002328ER :802.11ax160 RU Full **Operation Mode Test Frequency** :6025 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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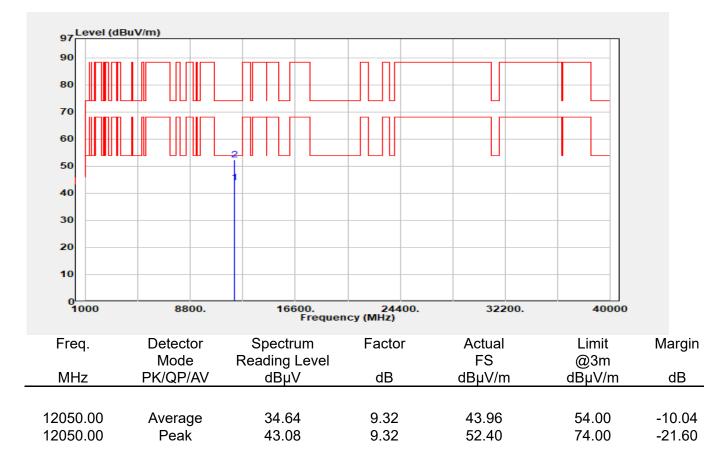
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**Report Number** :TERF2309002328ER :802.11ax160 RU Full **Operation Mode Test Frequency** :6025 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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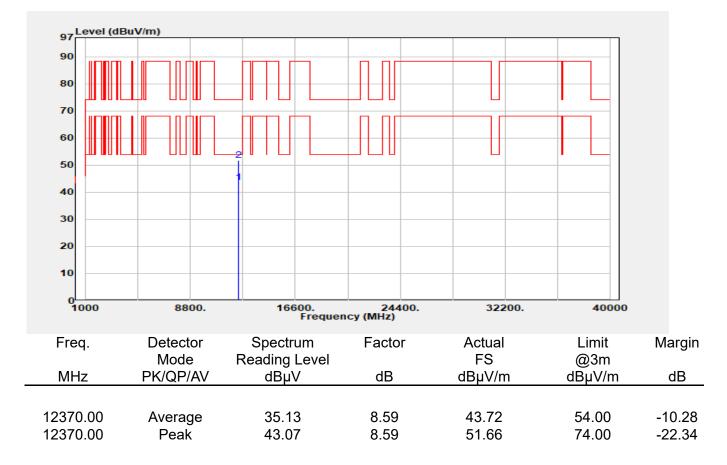
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**Report Number** :TERF2309002328ER :802.11ax160 RU Full **Operation Mode Test Frequency** :6185 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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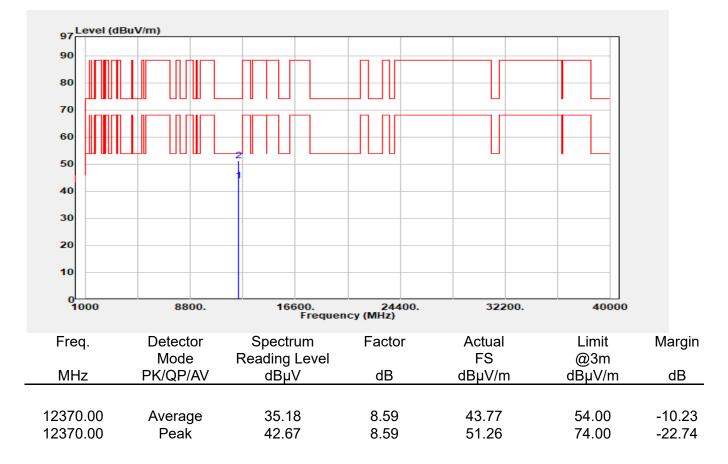
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**Report Number** :TERF2309002328ER :802.11ax160 RU Full **Operation Mode Test Frequency** :6185 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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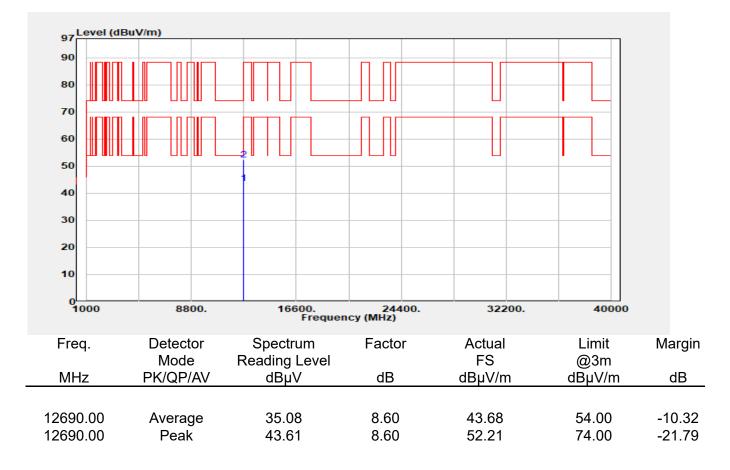
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**Report Number Operation Mode Test Frequency** Test Mode :Tx EUT Pol

:TERF2309002328ER :802.11ax160 RU Full :6345 MHz :H Plane

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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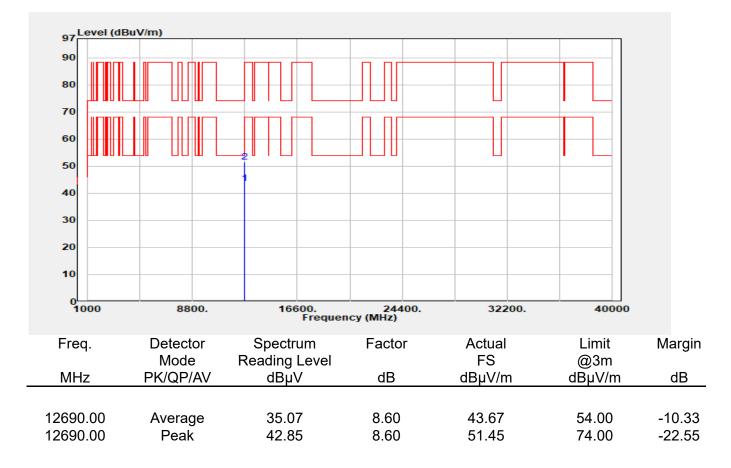
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**Report Number Operation Mode Test Frequency** Test Mode :Tx EUT Pol

:TERF2309002328ER :802.11ax160 RU Full :6345 MHz :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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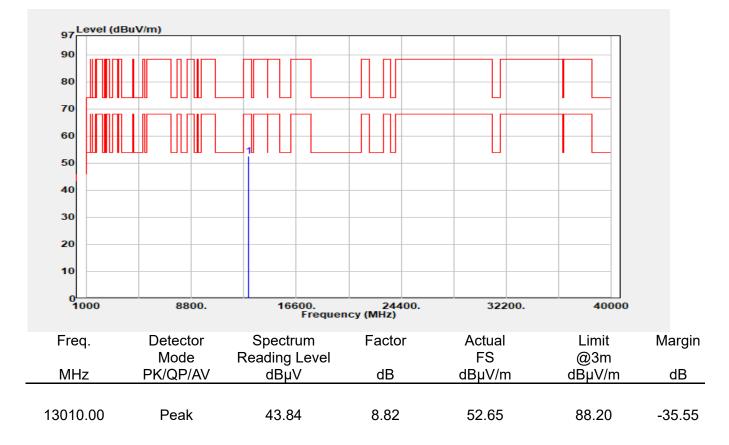
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax160 RU Full **Test Frequency** :6505 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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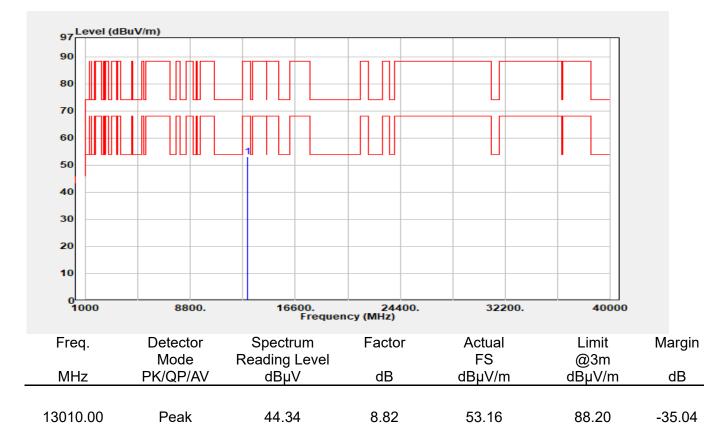
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax160 RU Full **Test Frequency** :6505 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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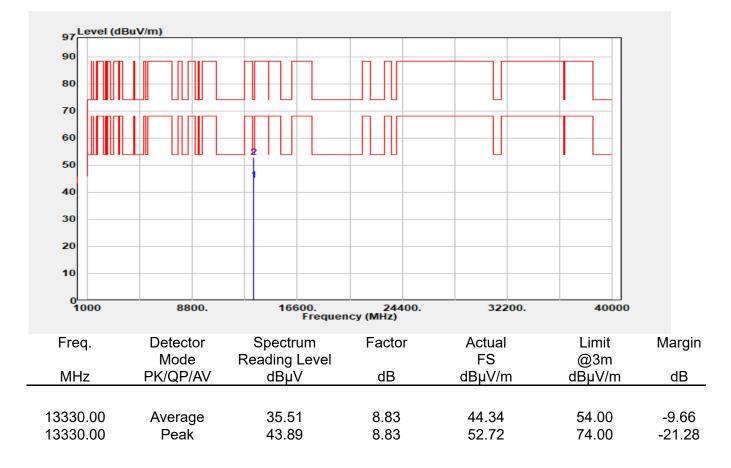
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**Report Number Operation Mode Test Frequency** Test Mode :Tx EUT Pol :H Plane

:TERF2309002328ER :802.11ax160 RU Full :6665 MHz

Test Site	:SAC 1
Test Date	:2023-11-10
Temp./Humi.	:25℃/61%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



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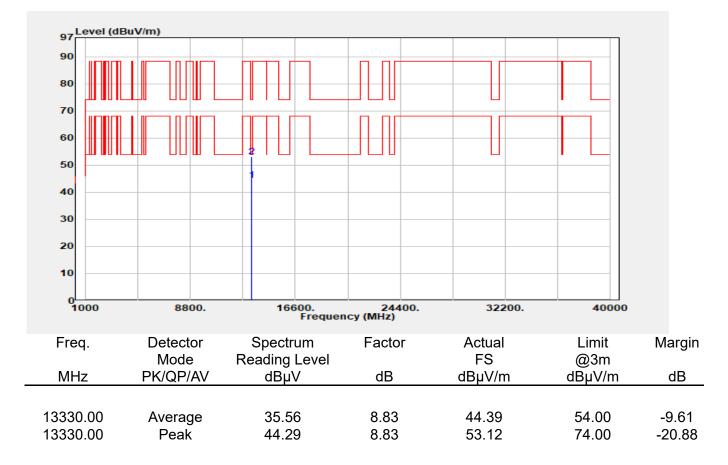
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**Report Number** :TERF2309002328ER :802.11ax160 RU Full **Operation Mode Test Frequency** :6665 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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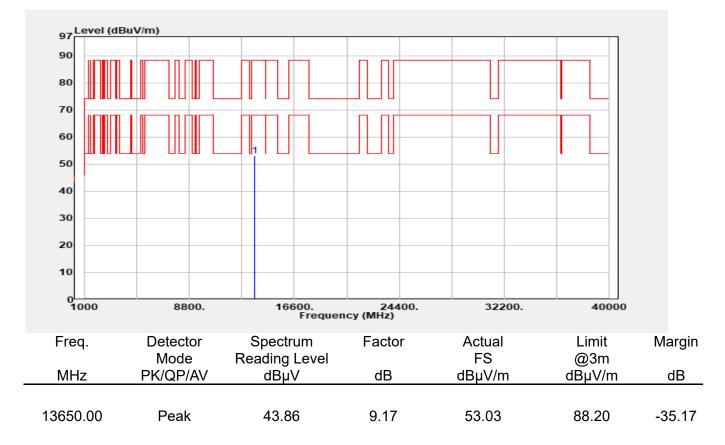
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax160 RU Full **Test Frequency** :6825 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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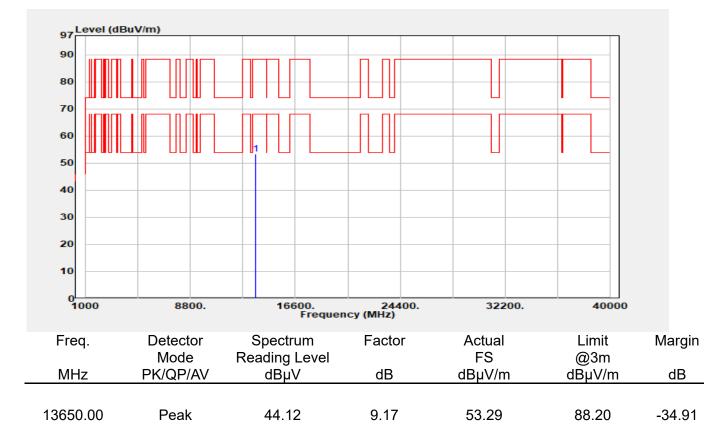
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**Report Number** :TERF2309002328ER :802.11ax160 RU Full **Operation Mode Test Frequency** :6825 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



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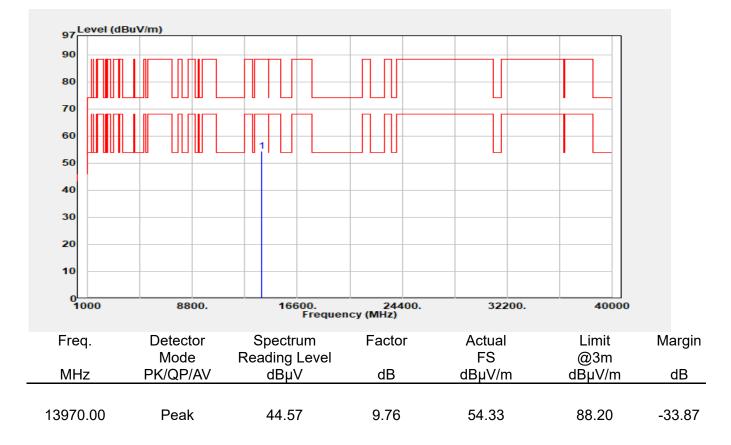
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**Report Number** :TERF2309002328ER :802.11ax160 RU Full **Operation Mode Test Frequency** :6985 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Vertical Engineer :Cooper Hsu



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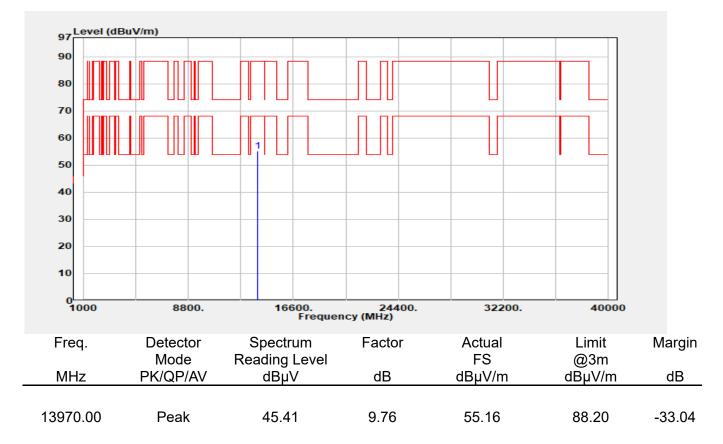
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**Report Number** :TERF2309002328ER **Operation Mode** :802.11ax160 RU Full **Test Frequency** :6985 MHz Test Mode :Tx EUT Pol :H Plane

Test Site :SAC 1 Test Date :2023-11-10 Temp./Humi. :25°℃/61% Antenna Pol. :Horizontal Engineer :Cooper Hsu



~ End of Report ~

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