

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: iFLYTEK AI Recorder P1 Pro
Applicant: SYNLAN TECHNOLOGY PTE. LTD.
7 TEMASEK BOULEVARD #29-01D SUNTEC TOWER ONE
SINGAPORE (038987)
Manufacturer: SYNLAN TECHNOLOGY PTE. LTD.
7 TEMASEK BOULEVARD #29-01D SUNTEC TOWER ONE
SINGAPORE (038987)
Brand Name: iFLYTEK
Model No.: AIR2521
Report Number: TERF2506002144ER
FCC ID 2BH7A-AIR2521
Date of EUT Received: June 19, 2025
Date of Test: June 26, 2025 ~ July 11, 2025
Issue Date: November 7, 2025

Approved By

Paul Chiang

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 C63.10:2020 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
TERF2506002144ER	00	Original	November 7, 2025	Susan Lin	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description:	iFLYTEK AI Recorder P1 Pro
Brand Name:	iFLYTEK
Model No.:	AIR2521
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	SH_SP_20250522717
Power Supply:	3.87 Vdc from Rechargeable Li-ion Battery 5 Vdc from USB Port
Test Software (Name/Version):	AmebaDPlus_mptool 1V8

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 72.2 Mbps

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	5150~5250	1.81
	5725~5850	1.81

Note:

- The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

1.4 FCC

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20	5180~5240	4	Avg	16.91 dBm	OFDM
	5745~5825	5	Avg	16.99 dBm	OFDM

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10:2020.

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	TW3702
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

Temperature:	59-75	°C	Relative Humidity:	22-24	%
Test site	Conducted 2		Test Start:	07/04/2025	
Test Engineer:	Dannis Chen		Test Done:	07/11/2025	

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

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 Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 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.

2.3.3 Radiated Emissions

The EUT is 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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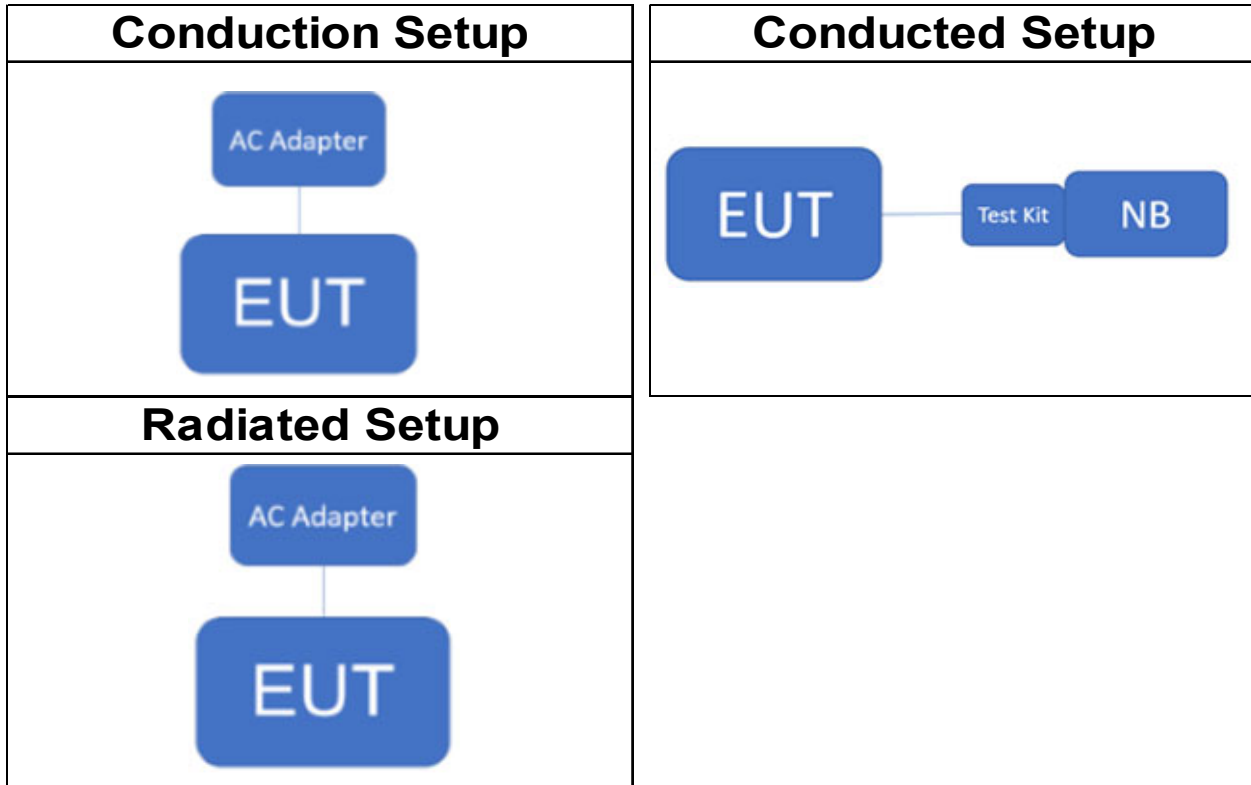
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	Jiangxi Jian Aohai Technology Co., Ltd.	SR-02A	N/A	N/A	N/A
USB Cable	Guangdong minggi Hi-tech Electronics Co.,Ltd	A TO C	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A
USB Cable	Guangdong minggi Hi-tech Electronics Co.,Ltd	A TO C	N/A	N/A	N/A
Test Kit	kuongshun	CH340G	N/A	N/A	N/A
Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	Jiangxi Jian Aohai Technology Co., Ltd.	SR-02A	N/A	N/A	N/A
Type-C to USB Cable	PowerSync	CUBCVARA0010	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result	Note
§15.207	AC Power Line Conducted Emission	Compliant	N
§15.407(e)	Emission Bandwidth	Compliant	
§15.407(a)	Maximum Conducted Output Power	Compliant	
§15.407(a)	Power Spectral Density	Compliant	
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant	
§15.407(c)	Transmission in case of Absence of Information	Compliant	
§15.203	Antenna Requirement	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2506002138ER.

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-1 5150 MHz ~ 5250MHz

20MHz	
CH	Freq. (MHz)
36	5180
40	5200
44	5220
48	5240

UNII-3 5725 MHz ~ 5850MHz

20MHz	
CH	Freq. (MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. 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.

Modulation		Transmission Chain							Single Transmission Spatial		Multiple Transmission Spatial	
V	802.11 a	V	Ch0		Ch1		Ch2		Ch3	V	1TX	1TX
V	802.11 n	V	Ch0		Ch1		Ch2		Ch3	V	1TX	1TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX	1TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX	1TX
	802.11 be		Ch0		Ch1		Ch2		Ch3		1TX	1TX

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 BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	Ch0
	5745~5825	149 to 165	149,157,165			

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	ch0
	5745~5825	149 to 165	157			

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	ch0
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	ch0
	5745~5825	149 to 165	149,157,165			

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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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Emission Bandwidth	+/- 1.38 Hz
Output Power measurement	+/- 0.97 dB
Peak Power Spectral Density Measurement	+/- 0.61 dB
Frequency Stability	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.71 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.84 dB	140GHz-220GHz

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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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2025	06/21/2026
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
LISN	SCHWARZBECK	NSLK 8127	1040	09/07/2024	09/06/2025
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2025	06/21/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	1	12/11/2024	12/10/2025
DC Block	Mini-Circuits	BLK-18-S+	10	12/11/2024	12/10/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/24/2025	06/23/2026
Power Meter	Anritsu	ML2496A	1804001	04/18/2025	04/17/2026
Power Sensor	Anritsu	MA2411B	1726104	04/18/2025	04/17/2026
Power Sensor	Anritsu	MA2411B	1726107	04/18/2025	04/17/2026
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

6.3 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
7G High Pass Filter	WI	WHKX7.0	45	12/11/2024	12/10/2025
Band Reject Filter 5150-5350	Titan	T04N5150535050S01	23040703-16	12/11/2024	12/10/2025
Band Reject Filter 5725-5895	Titan	T04N5725589550S01	23040703-20	12/11/2024	12/10/2025
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/09/2024	12/08/2025
Coaxial Cable	EMCI	EMC104-SM-SM-8000+EMC106-SM-SM-7600	RX Cable 9K-18G(160125+150817)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/30/2024	08/29/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/23/2024	10/22/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/09/2025	01/08/2026
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980933	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A09469	08/30/2024	08/29/2025
Site Cal	SGS	SAC 1	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

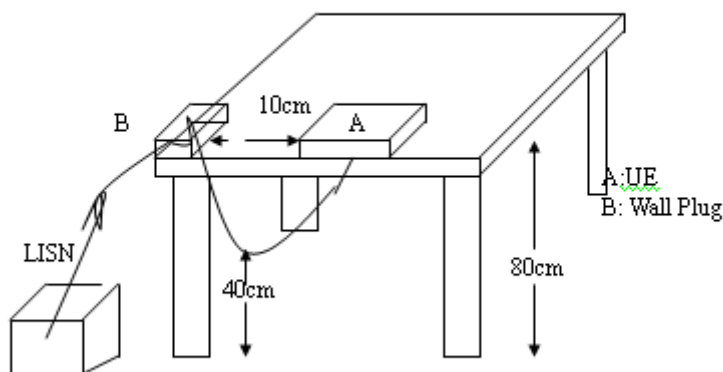
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2020.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test SET-UP



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

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7.5 Measurement Result

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2506002144ER

Test Site :Conducttion 1

Operation Mode :WLAN5G

Test Date :2025-07-08

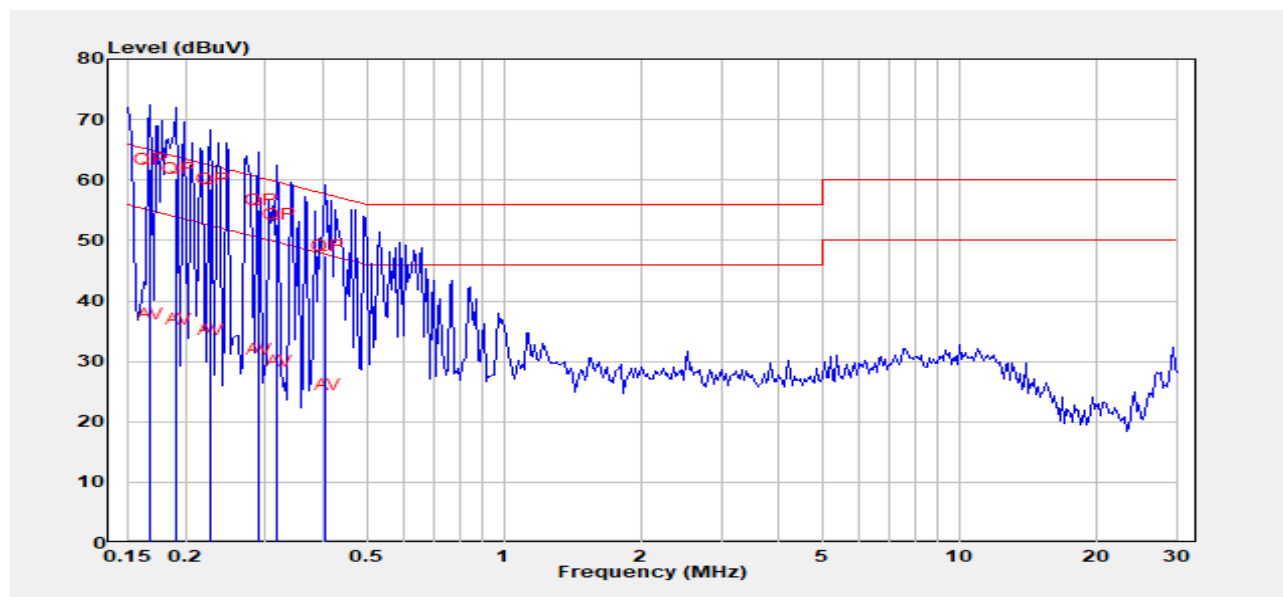
Power :120V/60Hz

Temp./Humi. :25.6°C/63%

Probe :L

Engineer :Dante Ding

Note: :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.167	Average	26.11	10.13	36.24	55.12	-18.88
0.167	QP	51.64	10.13	61.77	65.12	-3.35
0.191	Average	25.21	10.13	35.34	53.98	-18.64
0.191	QP	50.21	10.13	60.34	63.98	-3.64
0.227	Average	23.42	10.13	33.55	52.57	-19.01
0.227	QP	48.51	10.13	58.64	62.57	-3.92
0.289	Average	20.20	10.14	30.34	50.54	-20.20
0.289	QP	44.85	10.14	54.99	60.54	-5.55
0.318	Average	18.26	10.14	28.40	49.75	-21.35
0.318	QP	42.57	10.14	52.71	59.75	-7.04
0.406	Average	14.43	10.15	24.58	47.73	-23.15
0.406	QP	37.25	10.15	47.40	57.73	-10.33

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Report Number :TERF2506002144ER

Test Site :Conducttion 1

Operation Mode :WLAN5G

Test Date :2025-07-08

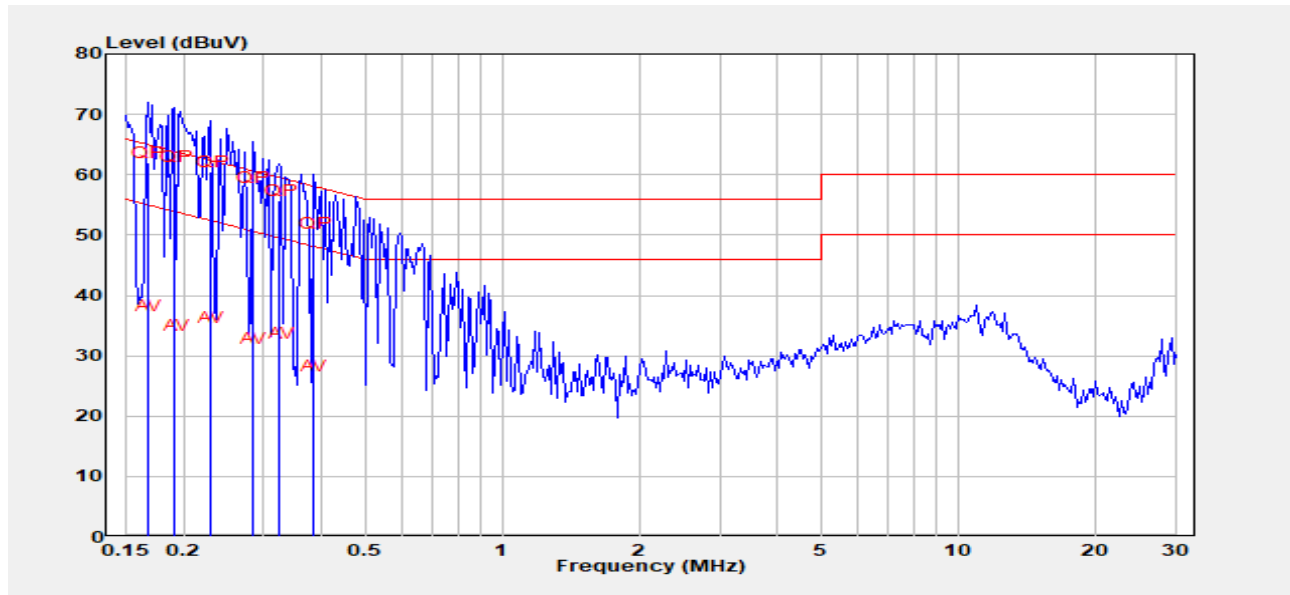
Power :120V/60Hz

Temp./Humi. :25.6°C/63%

Probe :N

Engineer :Dante Ding

Note: :



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.167	Average	26.43	10.12	36.55	55.12	-18.57
0.167	QP	51.92	10.12	62.04	65.12	-3.08
0.191	Average	23.35	10.12	33.47	53.98	-20.51
0.191	QP	51.18	10.12	61.30	63.98	-2.68
0.229	Average	24.57	10.13	34.70	52.48	-17.78
0.229	QP	50.43	10.13	60.56	62.48	-1.92
0.283	Average	21.19	10.14	31.33	50.72	-19.39
0.283	QP	47.73	10.14	57.87	60.72	-2.85
0.325	Average	21.98	10.14	32.12	49.57	-17.45
0.325	QP	45.58	10.14	55.72	59.57	-3.85
0.385	Average	16.62	10.15	26.77	48.17	-21.40
0.385	QP	40.13	10.15	50.28	58.17	-7.89

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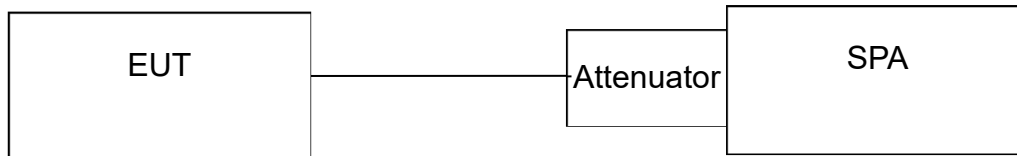
8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3.

8.2 Test Setup



8.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth: Set the spectrum analyzer as
RBW = 1%,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Sample,
Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	27.76	14.430
5220	28.44	14.540
5240	27.62	14.410

802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.12	13.450
5220	22.64	13.550
5240	22.35	13.490

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.40	12.150
5785	16.42	12.150
5825	16.38	12.140

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.66	12.470
5785	17.59	12.450
5825	17.61	12.460

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.425	5248
5745	5736.765	5737

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.953	5249
5745	5736.168	5736

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8.4.2 ISED Occupied Bandwidth

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.758	12.240
5220	16.728	12.230
5240	16.773	12.250

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.788	12.500
5220	17.772	12.500
5240	17.752	12.490

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.640	16.34
5785	16.649	16.36
5825	16.630	16.35

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.773	17.61
5785	17.770	17.68
5825	17.776	17.51

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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 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.

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9.1.2 FCC

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A		Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C		Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		Indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		Subordinate device	Not required	36dBm	Not required	Not required
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna. 2. For the 10 log B, B is the 26 dB emission bandwidth.						

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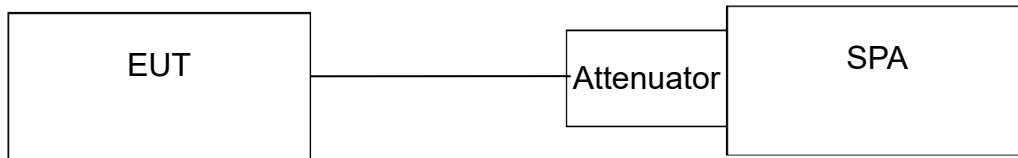
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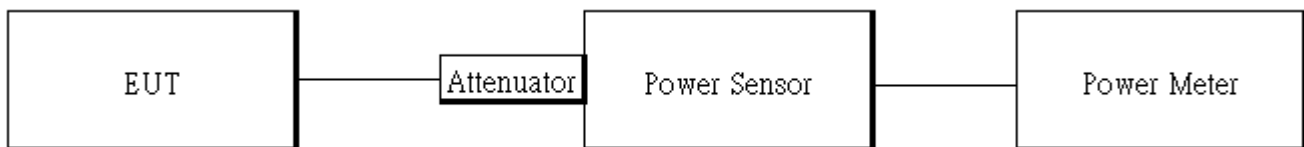
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9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



9.3 Measurement Procedure

9.3.1 Duty Cycle Measurements

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

9.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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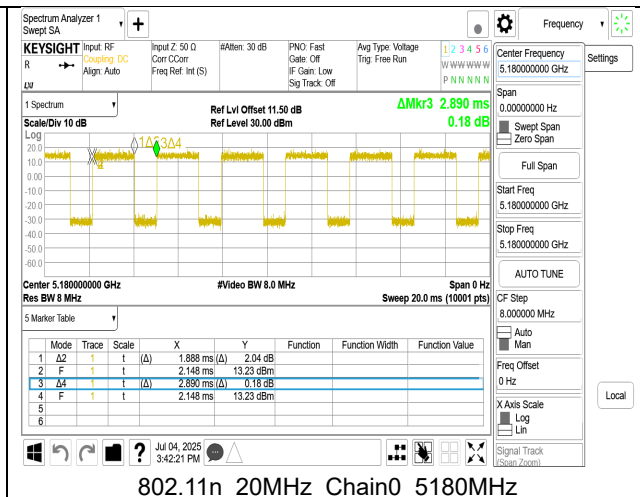
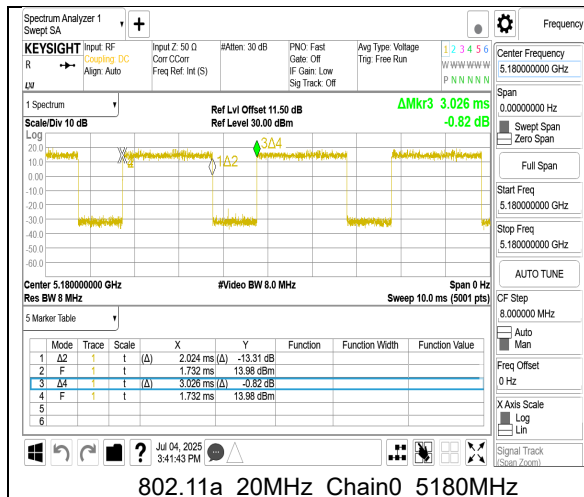
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9.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	66.89	1.75	0.49	1.00
802.11n_20	65.33	1.85	0.53	1.00



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

Note: For all straddle channels, full bandwidth power is reported in the UNII Band 2C because the combined UNII Band 2C and UNII Band 3 power already passed the worst-case UNII Band 2C limit.

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	102	48.155	16.83	23.98	PASS
44	5220	6	100	48.489	16.86	23.98	PASS
48	5240	6	99	49.050	16.91	23.98	PASS
149	5745	6	100	49.050	16.91	30	PASS
157	5785	6	101	49.962	16.99	30	PASS
165	5825	6	98	48.266	16.84	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	91	24.997	13.98	23.98	PASS
44	5220	MCS0	88	24.768	13.94	23.98	PASS
48	5240	MCS0	87	24.997	13.98	23.98	PASS
149	5745	MCS0	88	24.654	13.92	30	PASS
157	5785	MCS0	88	25.055	13.99	30	PASS
165	5825	MCS0	86	24.711	13.93	30	PASS

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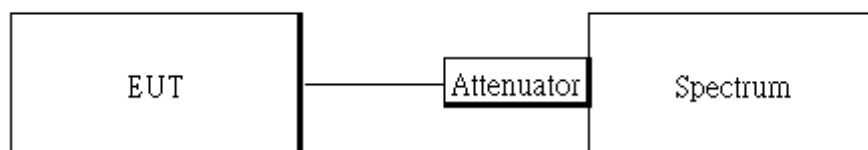
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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
	V	Client device	11dBm / MHz	6dBi
U-NII-2A		All	11dBm / MHz	6dBi
U-NII-2C		All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		Indoor client	14dBm / MHz e.i.r.p.	Not required
		Subordinate device	20dBm / MHz e.i.r.p.	Not required
If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna.				

10.2 Test Setup



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10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging. In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle $\geq 98\%$: Record the max. reading.
(2)Duty cycle $< 98\%$: Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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10.4 Measurement Result

POWER DENSITY 802.11a MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	4.482	1.75	6.23		11.00 dBm/MHz	-4.77
5220	4.551	1.75	6.30		11.00 dBm/MHz	-4.70
5240	4.304	1.75	6.05		11.00 dBm/MHz	-4.95
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	0.443	1.75	2.22	4.41	30.00 dBm/500kHz	-25.59
5785	0.563	1.75	2.22	4.53	30.00 dBm/500kHz	-25.47
5825	1.058	1.75	2.22	5.03	30.00 dBm/500kHz	-24.97
POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	1.637	1.85	3.49		11.00 dBm/MHz	-7.51
5220	1.402	1.85	3.25		11.00 dBm/MHz	-7.75
5240	1.276	1.85	3.13		11.00 dBm/MHz	-7.87
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	-3.600	1.85	2.22	0.47	30.00 dBm/500kHz	-29.53
5785	-4.071	1.85	2.22	0.00	30.00 dBm/500kHz	-30.00
5825	-2.800	1.85	2.22	1.27	30.00 dBm/500kHz	-28.73

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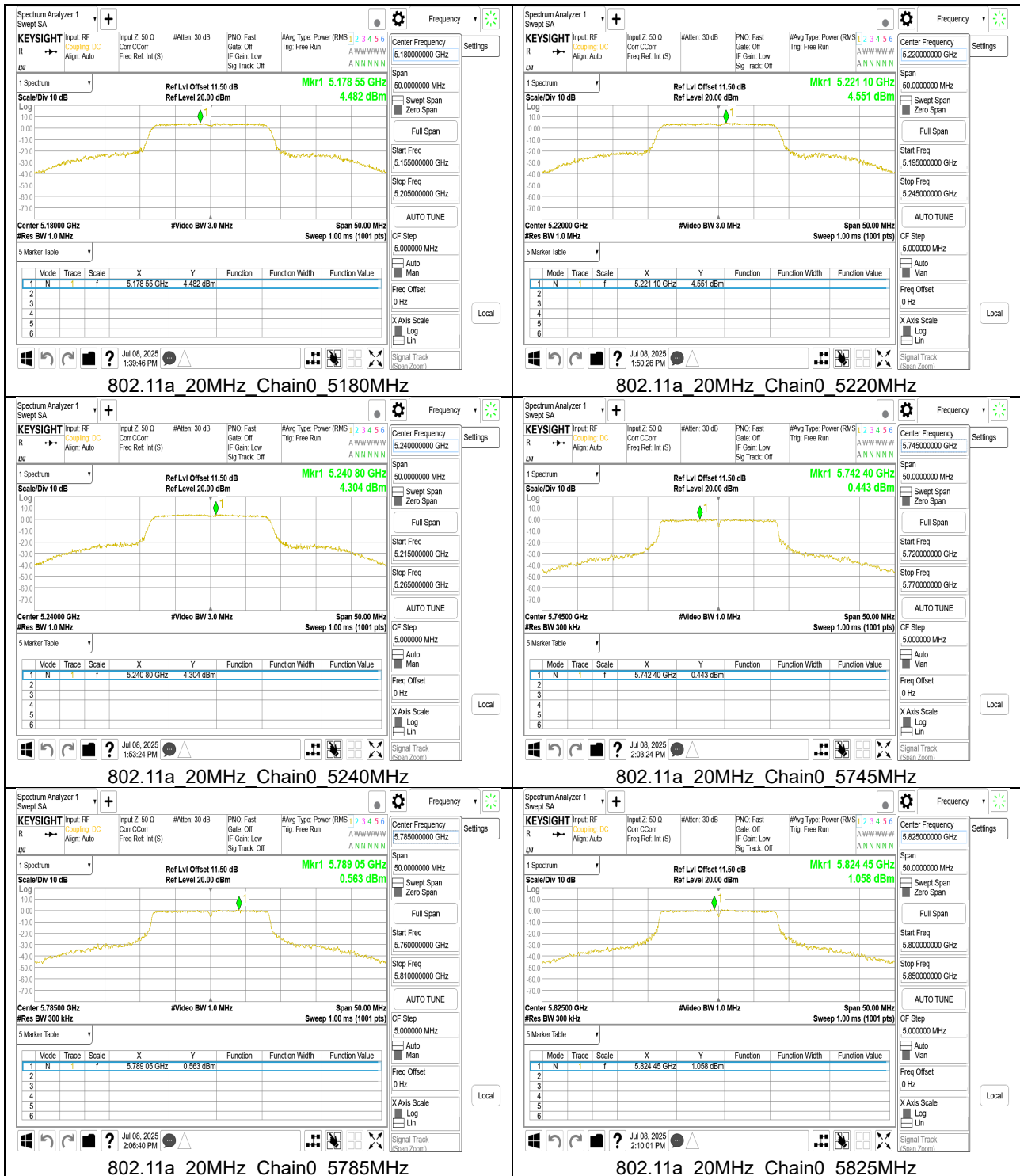
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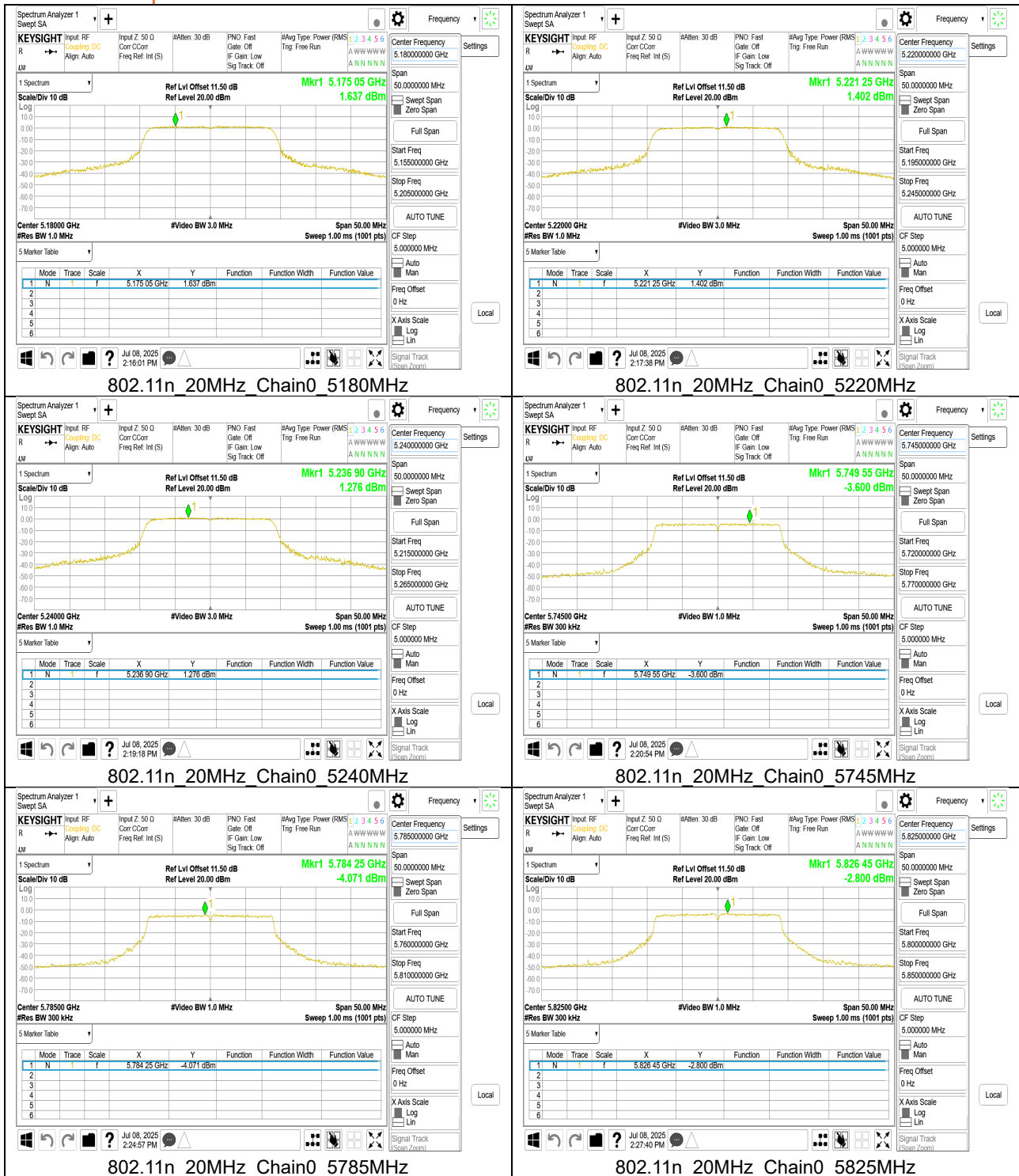
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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

$EIRP = (E^2 d) / 30$, where E is the field strength in V/m, d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

11.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725			
15.407(b)(4)(i) RSS-247 §6.2.4.3	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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:

- The lower limit shall apply at the transition frequencies.

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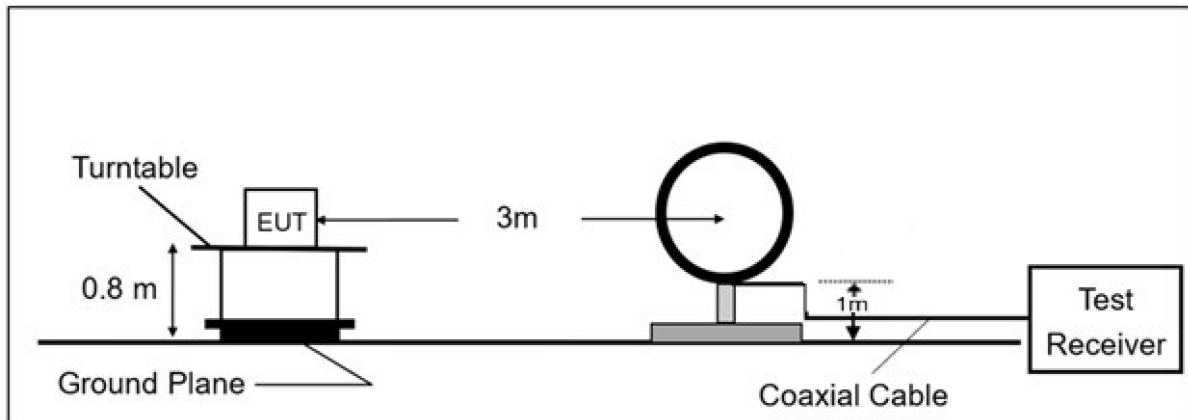
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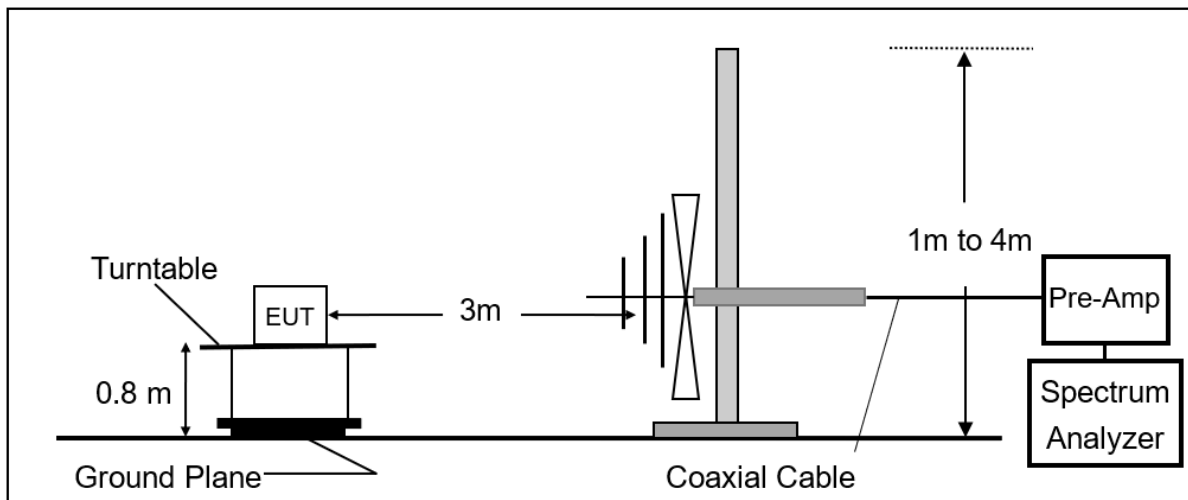
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11.2 Test Setup

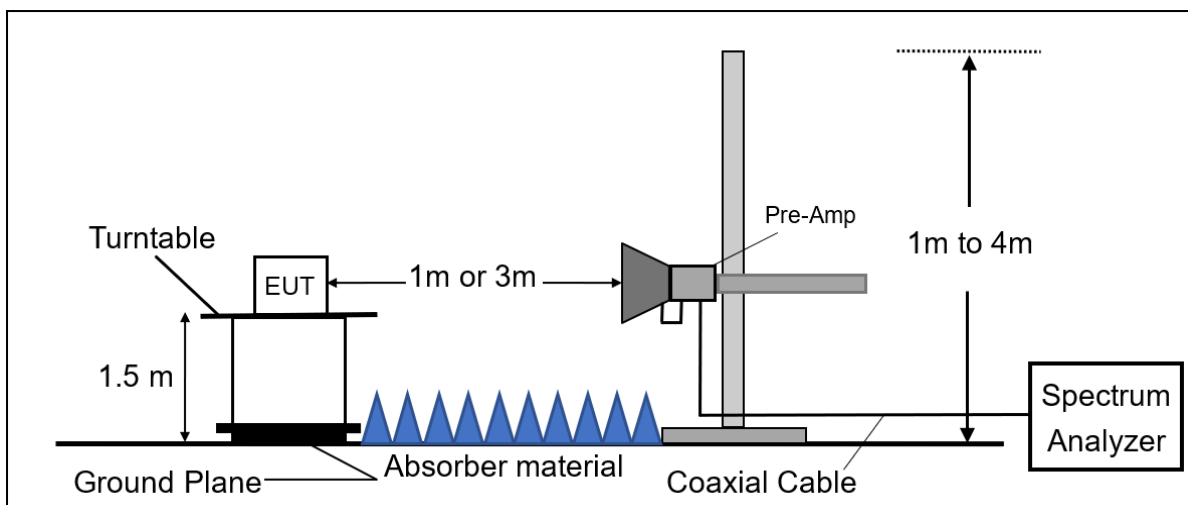
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz **when $D \geq 98\%$** . If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz, $VBW \geq 1/T$ **when $D < 98\%$** for Average Emission Measurements at frequency above 1 GHz.
10. When 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.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
13. Repeat above procedures until all frequency measured were complete.

11.4 Field Strength Calculation

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*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

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AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.5 Test Results of Radiated Spurious Emissions from 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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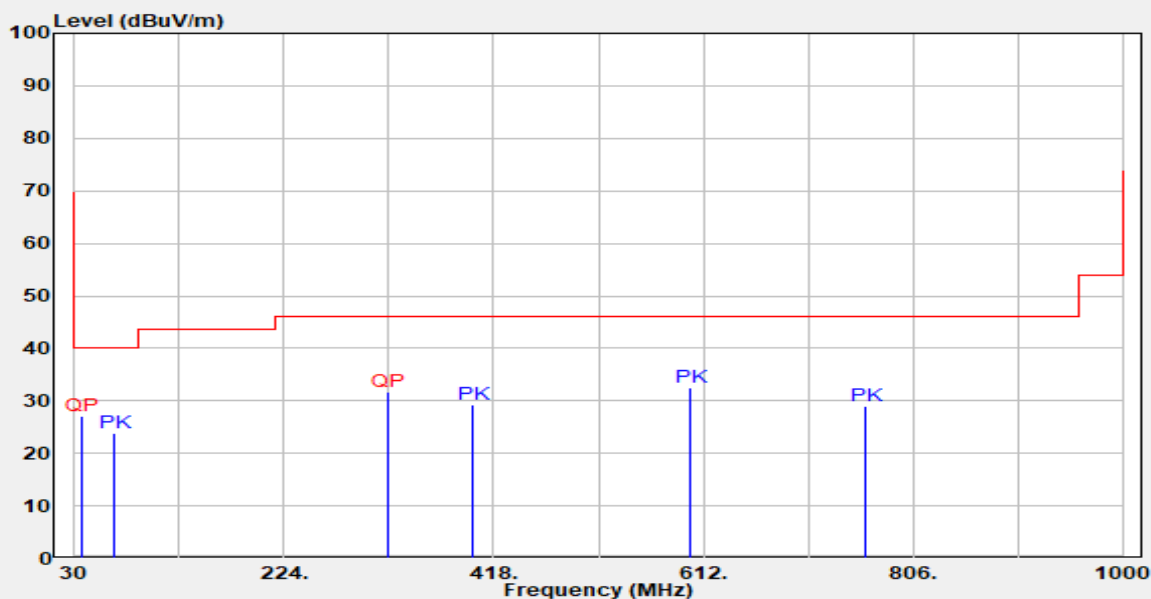
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11.6 Radiated Spurious Emission Measurement Result

11.6.1 Spurious Emission

Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-08
 Temp./Humi. :21.5°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



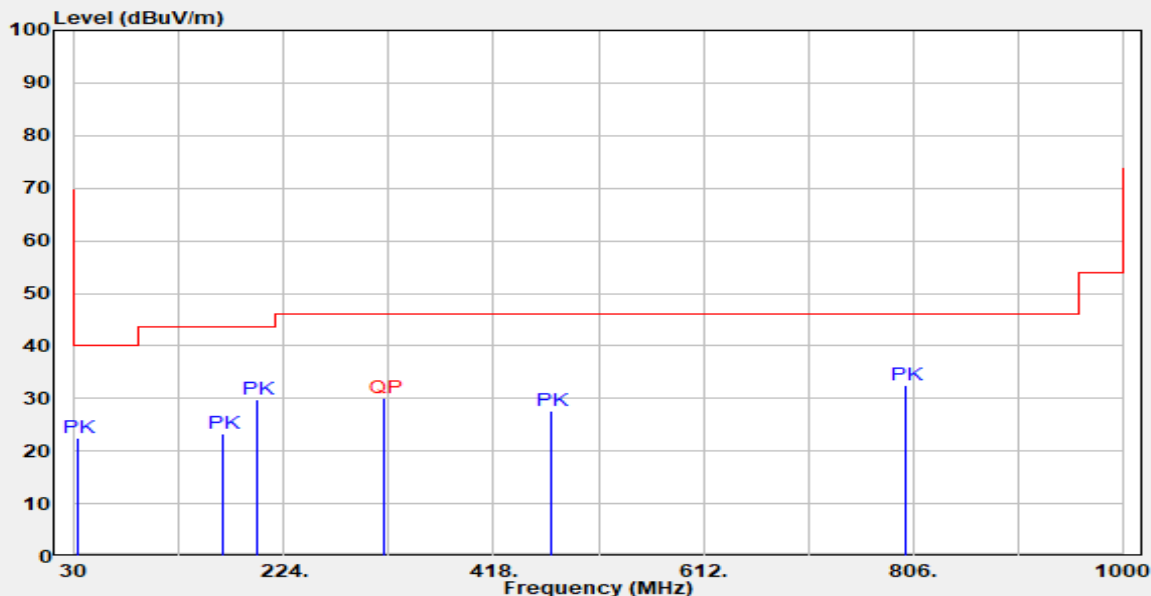
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
36.00	QP	34.93	-7.82	27.11	40.00	-12.89
66.86	Peak	41.40	-17.65	23.75	40.00	-16.25
319.39	QP	39.91	-8.16	31.75	46.00	-14.25
398.60	Peak	35.52	-6.26	29.26	46.00	-16.74
599.39	Peak	35.55	-3.10	32.45	46.00	-13.55
761.38	Peak	29.83	-0.93	28.90	46.00	-17.10

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-08
 Temp./Humi. :21.5°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
32.91	Peak	29.00	-6.51	22.49	40.00	-17.51
166.77	Peak	36.43	-13.15	23.28	43.50	-20.22
199.75	Peak	43.03	-13.22	29.81	43.50	-13.69
316.95	QP	38.33	-8.21	30.12	46.00	-15.88
470.38	Peak	32.52	-4.93	27.59	46.00	-18.41
800.18	Peak	32.82	-0.36	32.46	46.00	-13.54

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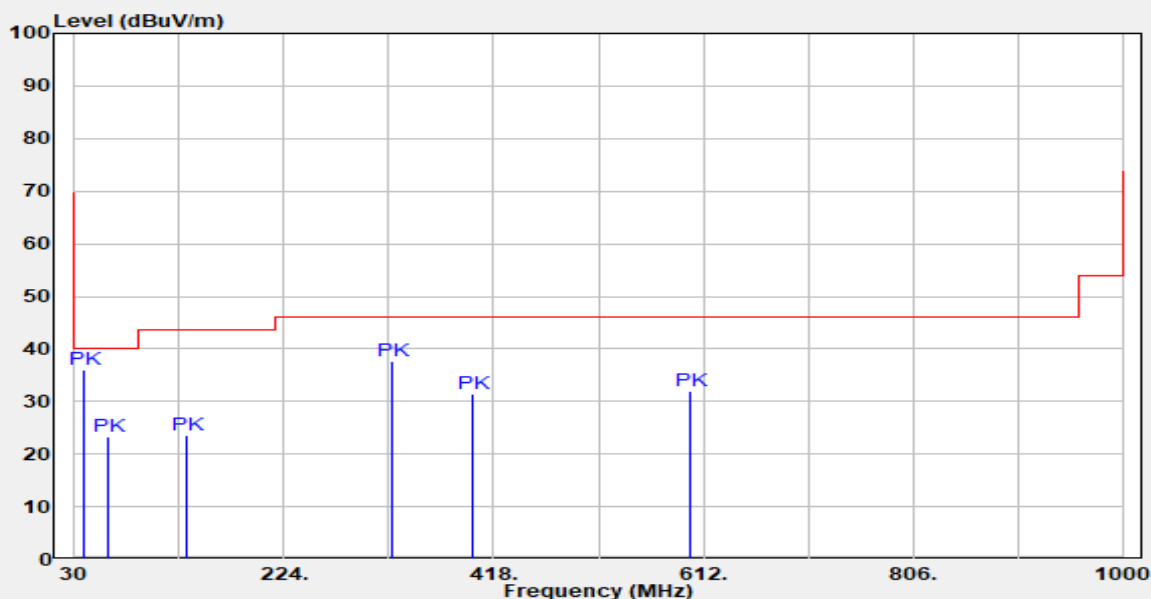
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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-08
 Temp./Humi. :21.5°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



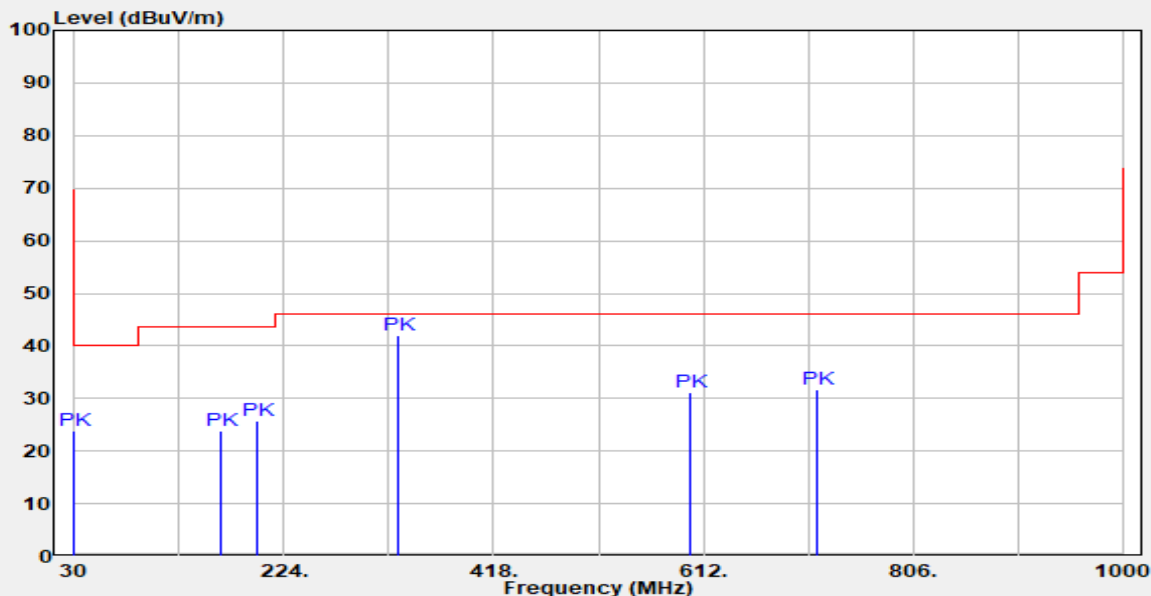
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
37.76	Peak	44.60	-8.65	35.95	40.00	-4.05
60.07	Peak	41.07	-17.74	23.33	40.00	-16.67
133.79	Peak	35.07	-11.53	23.54	43.50	-19.96
323.91	Peak	45.86	-8.15	37.71	46.00	-8.29
398.60	Peak	37.76	-6.26	31.50	46.00	-14.50
600.36	Peak	34.98	-3.10	31.88	46.00	-14.12

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-08
 Temp./Humi. :21.5°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



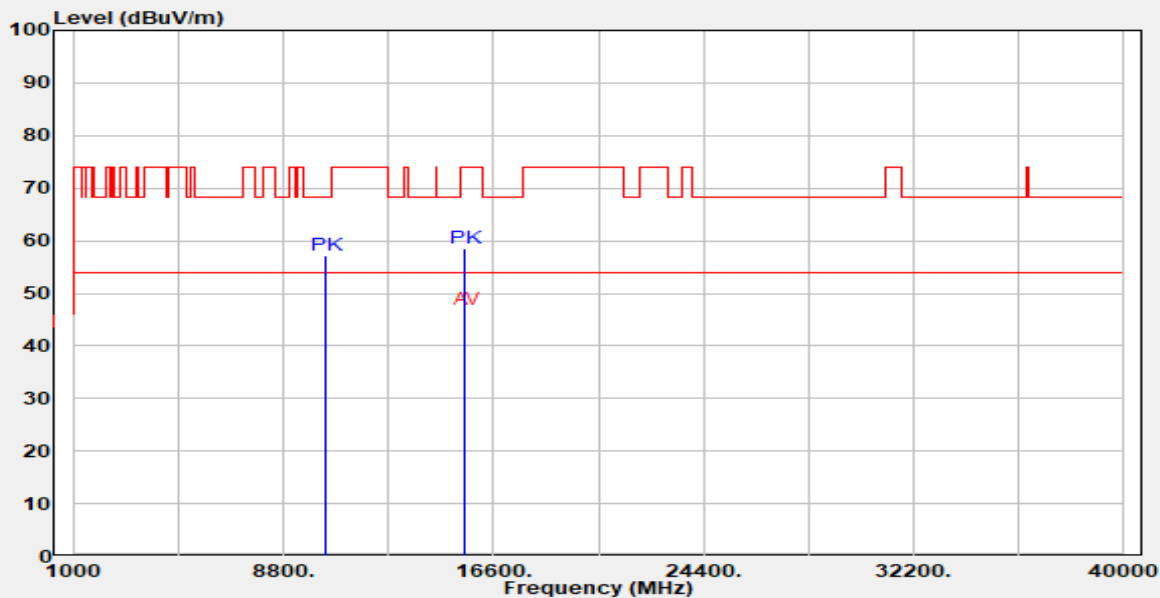
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
30.00	Peak	28.71	-4.91	23.80	40.00	-16.20
165.80	Peak	36.90	-13.09	23.81	43.50	-19.69
199.75	Peak	38.85	-13.22	25.63	43.50	-17.87
329.73	Peak	50.06	-8.08	41.98	46.00	-4.02
599.39	Peak	34.35	-3.10	31.25	46.00	-14.75
717.73	Peak	33.50	-1.85	31.65	46.00	-14.35

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Report Number :TERF2506002138ER
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



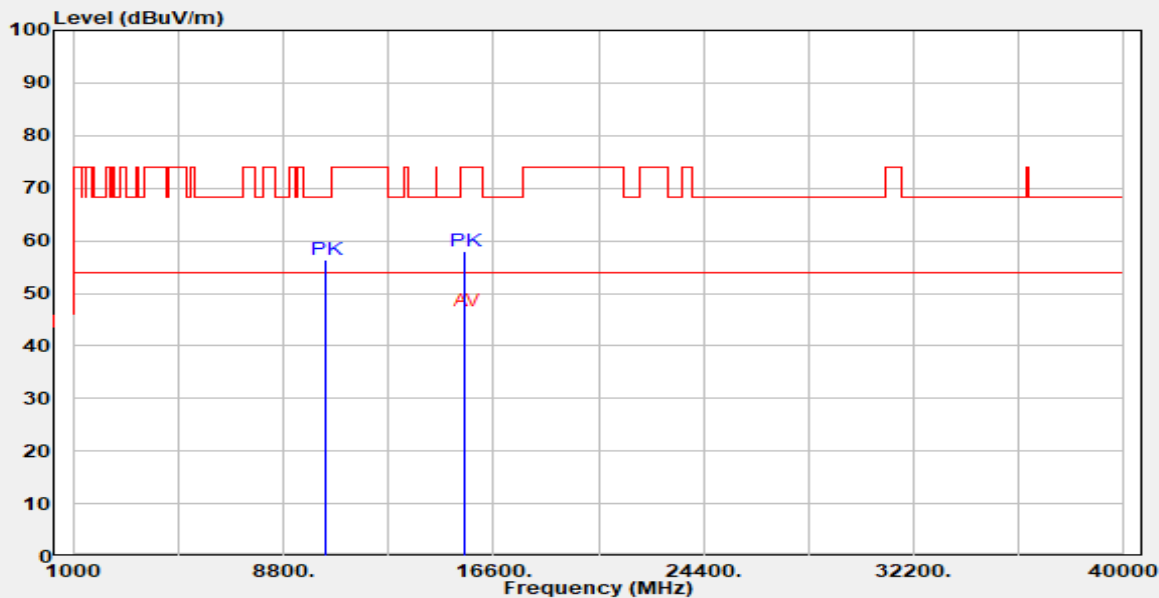
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	44.31	12.77	57.08	68.20	-11.12
15540.00	Average	35.48	11.30	46.78	54.00	-7.22
15540.00	Peak	47.28	11.30	58.58	74.00	-15.42

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Report Number :TERF2506002138ER
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Horizontal
Engineer :Dante Ding



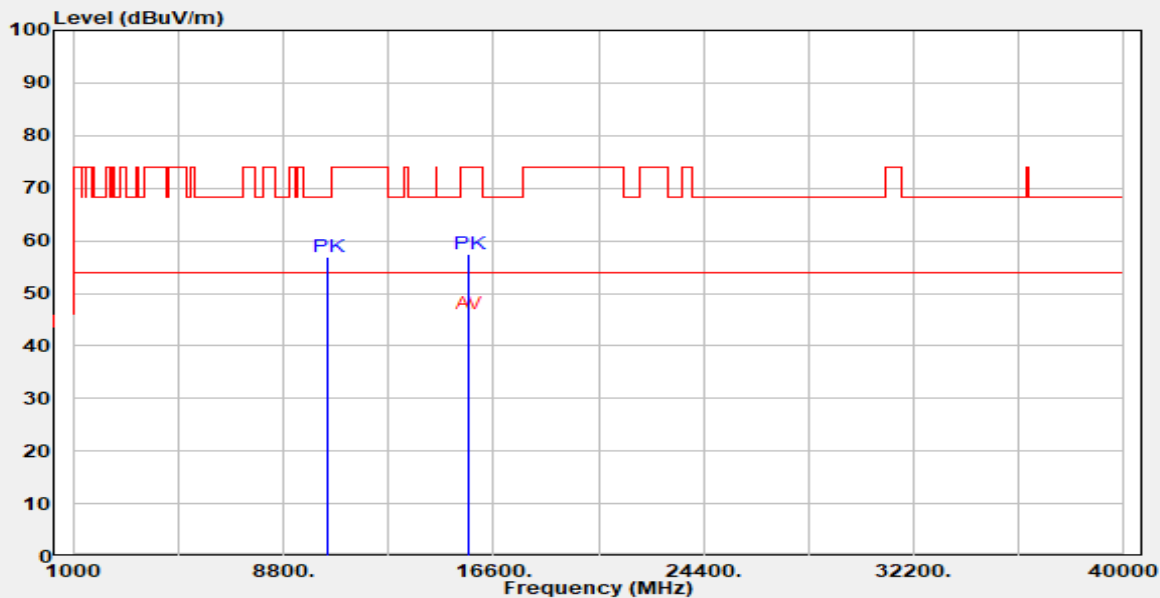
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	43.73	12.77	56.50	68.20	-11.70
15540.00	Average	35.41	11.30	46.71	54.00	-7.29
15540.00	Peak	46.58	11.30	57.88	74.00	-16.12

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Report Number :TERF2506002138ER
Operation Mode :802.11a
Test Frequency :5220 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



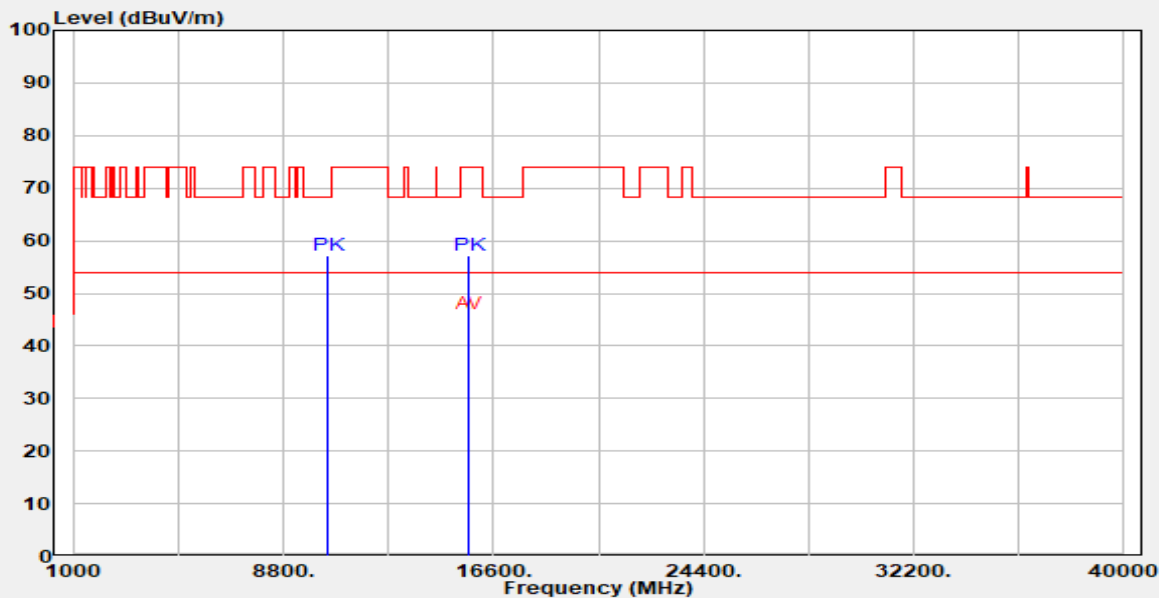
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	43.79	13.21	57.00	68.20	-11.20
15660.00	Average	35.31	10.80	46.11	54.00	-7.89
15660.00	Peak	46.54	10.80	57.34	74.00	-16.66

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Report Number :TERF2506002138ER
Operation Mode :802.11a
Test Frequency :5220 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Horizontal
Engineer :Dante Ding



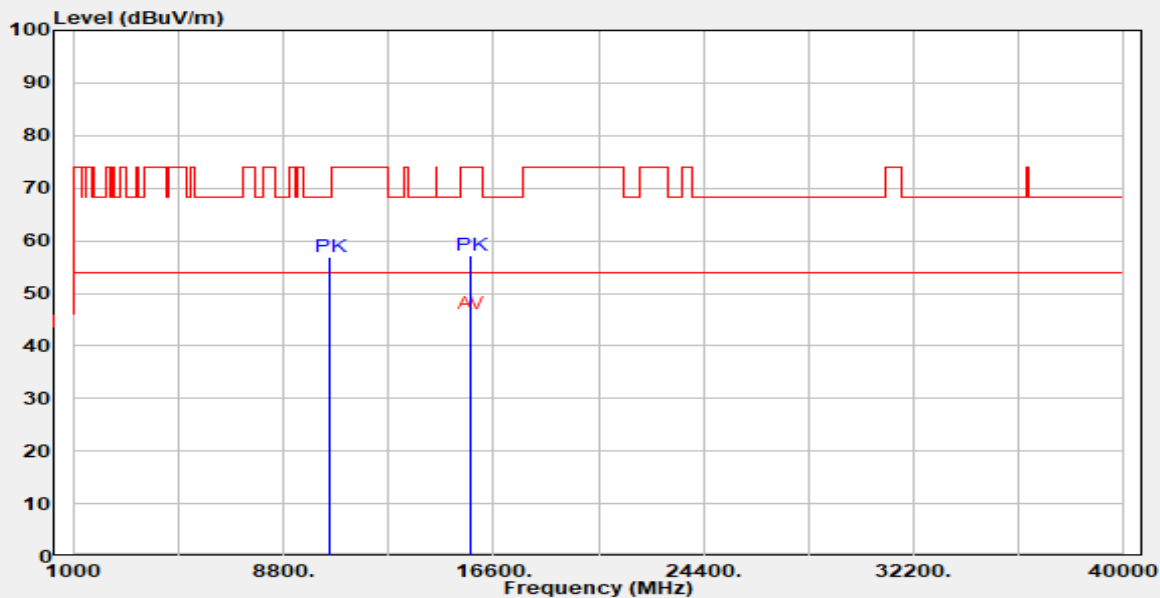
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	43.98	13.21	57.19	68.20	-11.01
15660.00	Average	35.29	10.80	46.09	54.00	-7.91
15660.00	Peak	46.34	10.80	57.14	74.00	-16.86

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Report Number :TERF2506002138ER
Operation Mode :802.11a
Test Frequency :5240 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



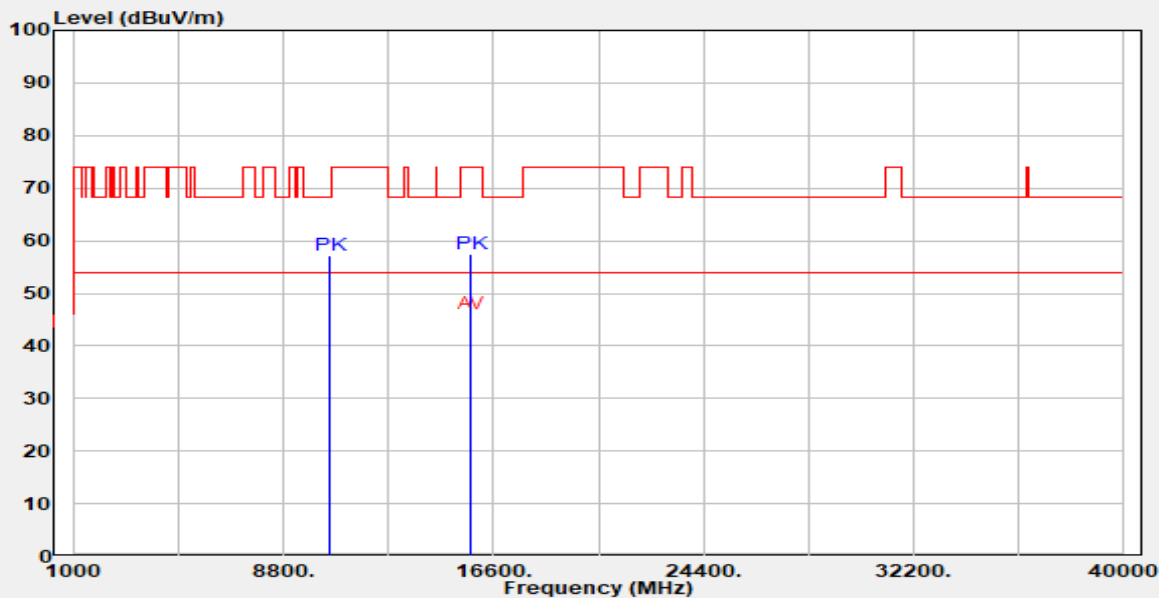
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	43.74	13.24	56.98	68.20	-11.22
15720.00	Average	35.16	11.03	46.19	54.00	-7.81
15720.00	Peak	46.14	11.03	57.17	74.00	-16.83

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Report Number :TERF2506002138ER
Operation Mode :802.11a
Test Frequency :5240 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Horizontal
Engineer :Dante Ding



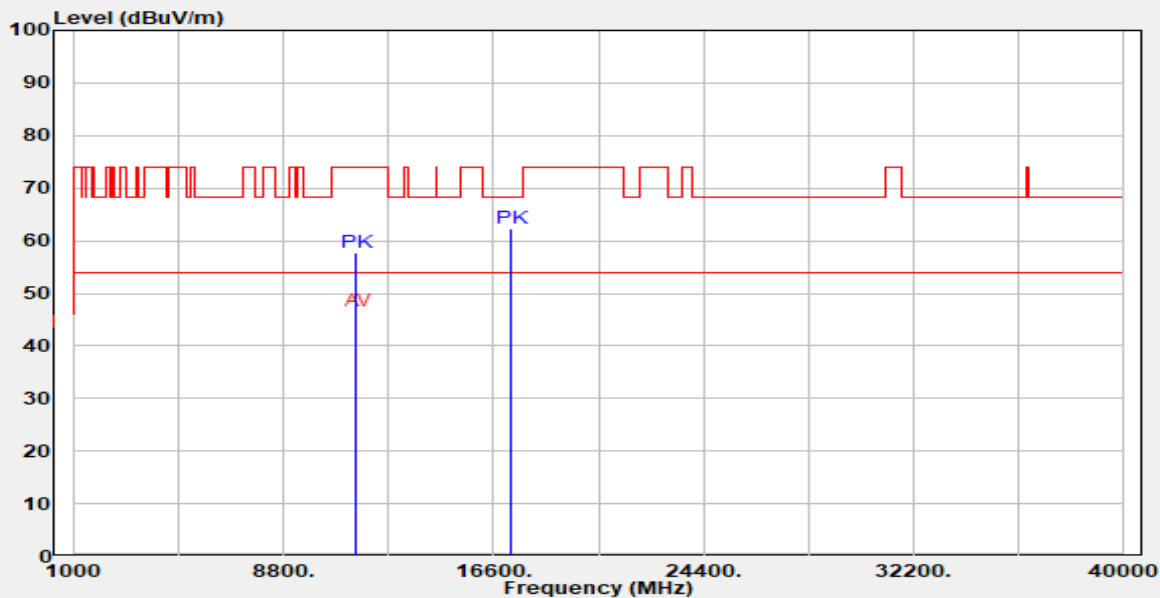
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	43.92	13.24	57.16	68.20	-11.04
15720.00	Average	35.12	11.03	46.15	54.00	-7.85
15720.00	Peak	46.29	11.03	57.32	74.00	-16.68

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Report Number :TERF2506002138ER
Operation Mode :802.11a
Test Frequency :5745 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



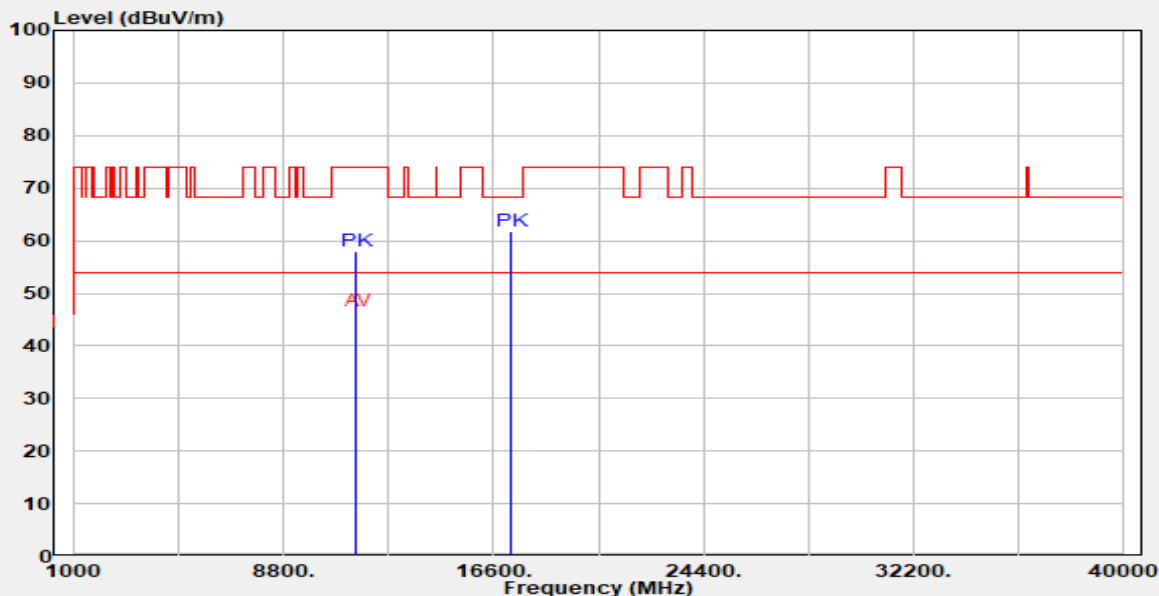
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	33.29	13.35	46.64	54.00	-7.36
11490.00	Peak	44.39	13.35	57.74	74.00	-16.26
17235.00	Peak	48.93	13.45	62.38	68.20	-5.82

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :21.5°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



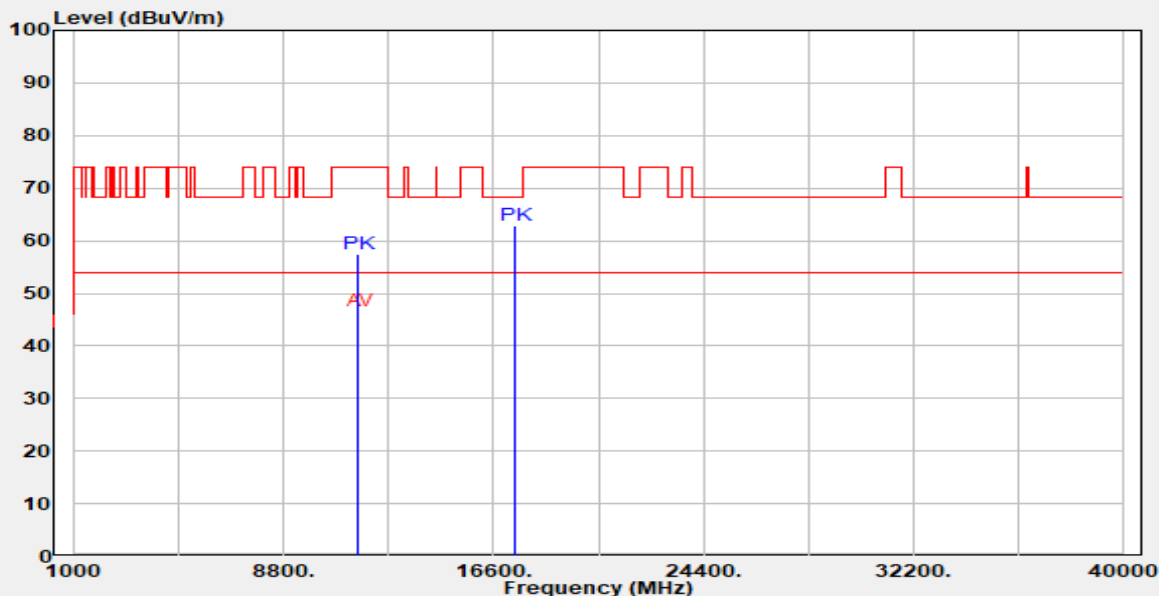
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	33.22	13.35	46.57	54.00	-7.43
11490.00	Peak	44.72	13.35	58.07	74.00	-15.93
17235.00	Peak	48.45	13.45	61.90	68.20	-6.30

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :21.5°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



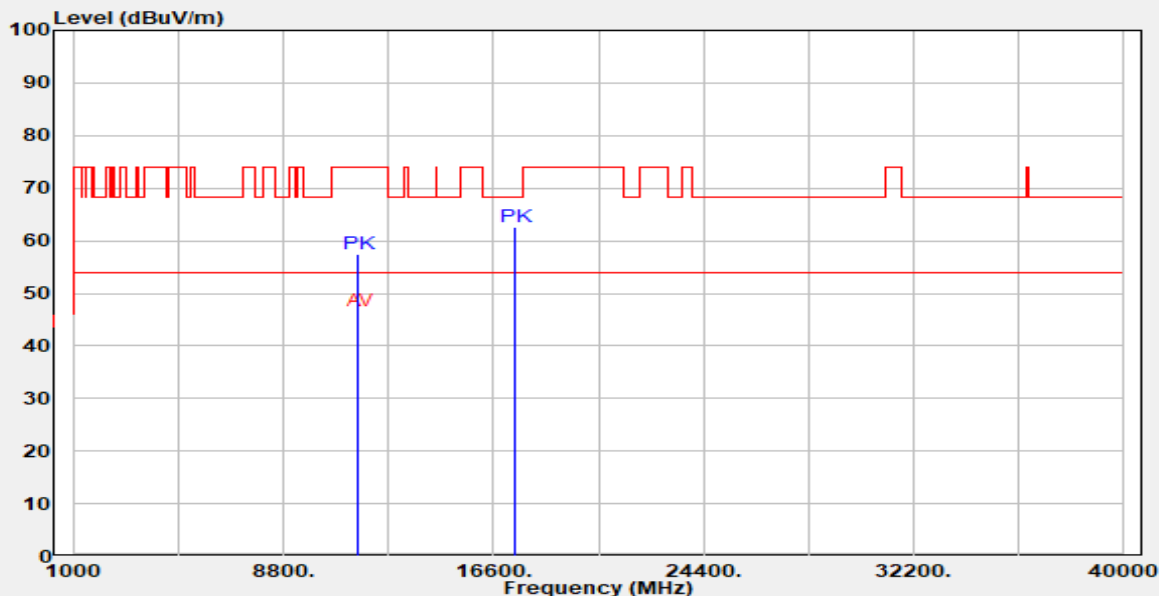
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	Average	33.39	13.23	46.62	54.00	-7.38
11570.00	Peak	44.34	13.23	57.57	74.00	-16.43
17355.00	Peak	48.74	14.03	62.77	68.20	-5.43

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :21.5°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



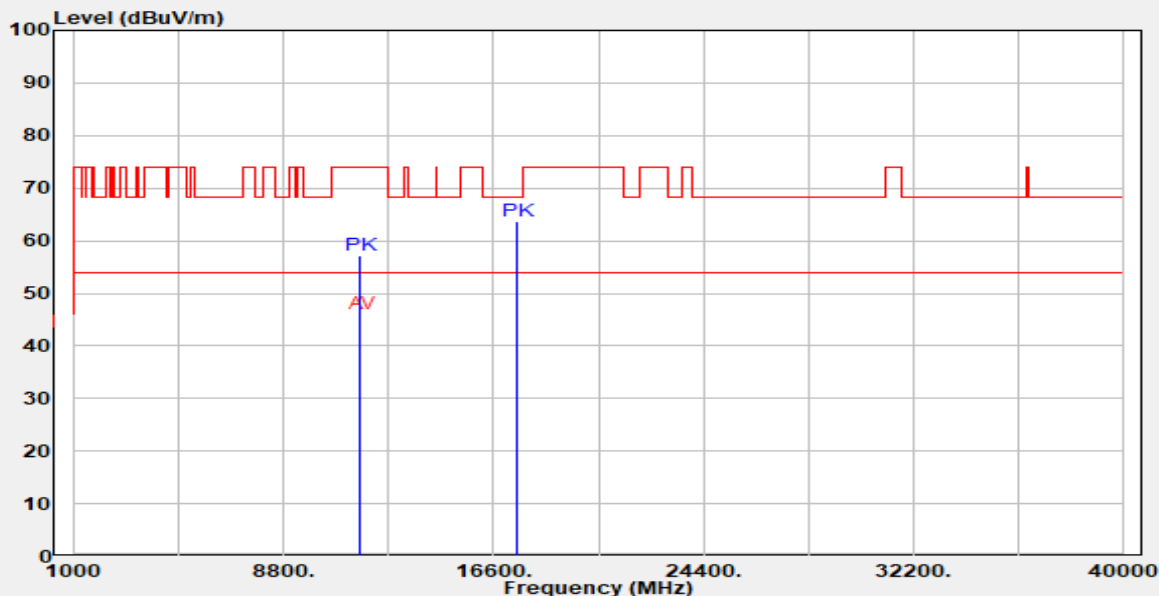
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	Average	33.31	13.23	46.54	54.00	-7.46
11570.00	Peak	44.34	13.23	57.57	74.00	-16.43
17355.00	Peak	48.52	14.03	62.55	68.20	-5.65

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :21.5°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



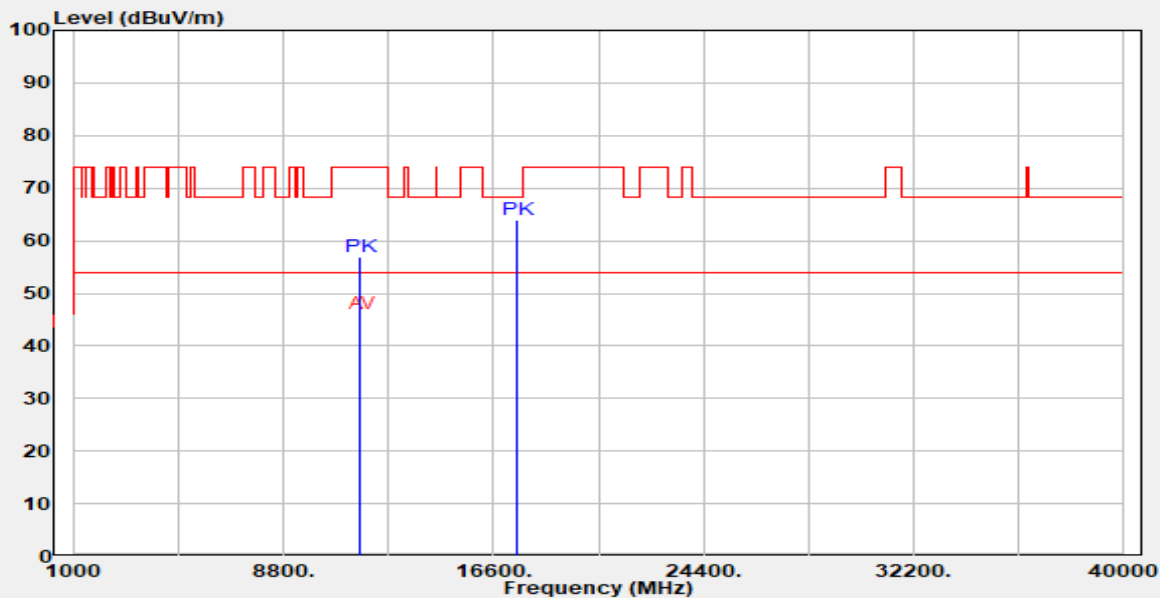
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	Average	33.31	12.74	46.05	54.00	-7.95
11650.00	Peak	44.55	12.74	57.29	74.00	-16.71
17475.00	Peak	48.86	14.85	63.71	68.20	-4.49

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Report Number :TERF2506002138ER
Operation Mode :802.11a
Test Frequency :5825 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Horizontal
Engineer :Dante Ding



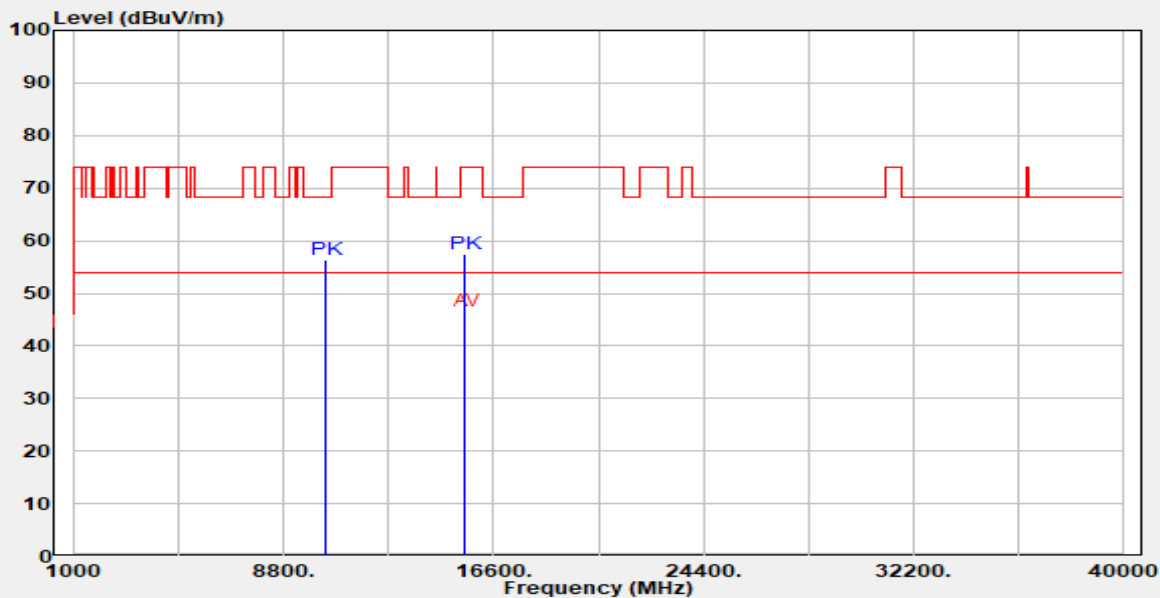
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	Average	33.33	12.74	46.07	54.00	-7.93
11650.00	Peak	44.29	12.74	57.03	74.00	-16.97
17475.00	Peak	49.19	14.85	64.04	68.20	-4.16

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



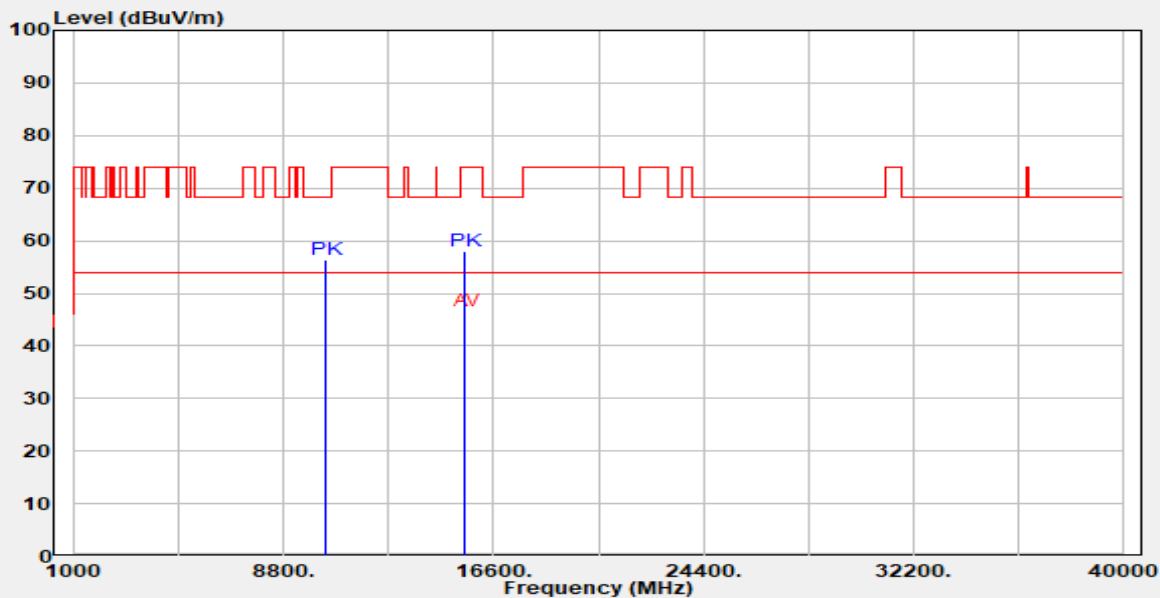
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	43.73	12.77	56.50	68.20	-11.70
15540.00	Average	35.37	11.30	46.67	54.00	-7.33
15540.00	Peak	46.12	11.30	57.42	74.00	-16.58

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Horizontal
Engineer :Dante Ding



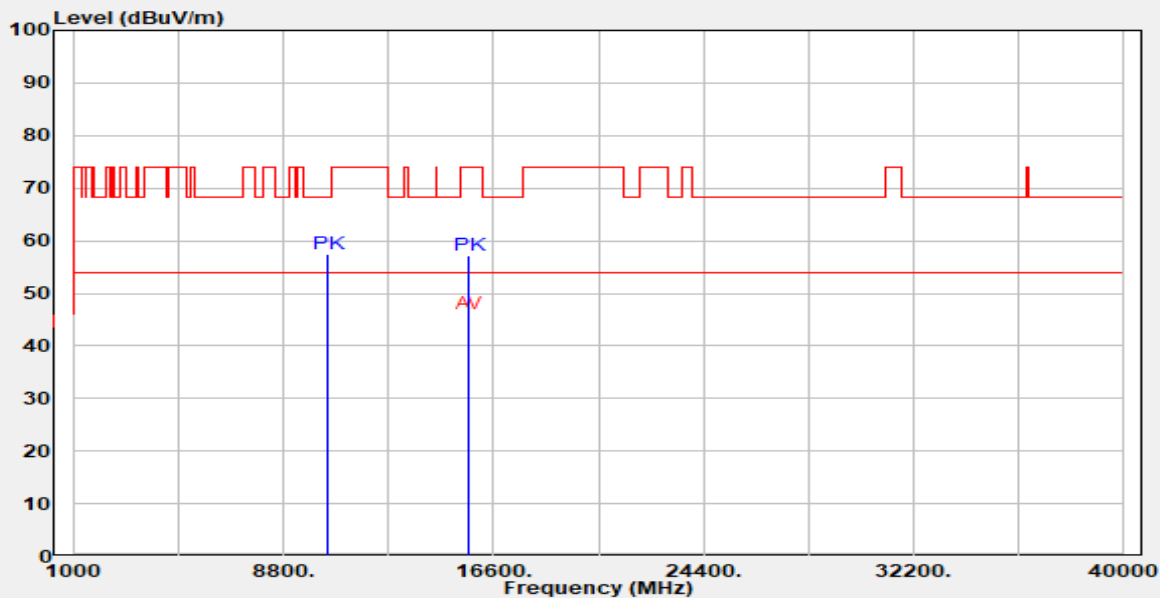
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	43.63	12.77	56.40	68.20	-11.80
15540.00	Average	35.41	11.30	46.71	54.00	-7.29
15540.00	Peak	46.66	11.30	57.96	74.00	-16.04

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5220 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



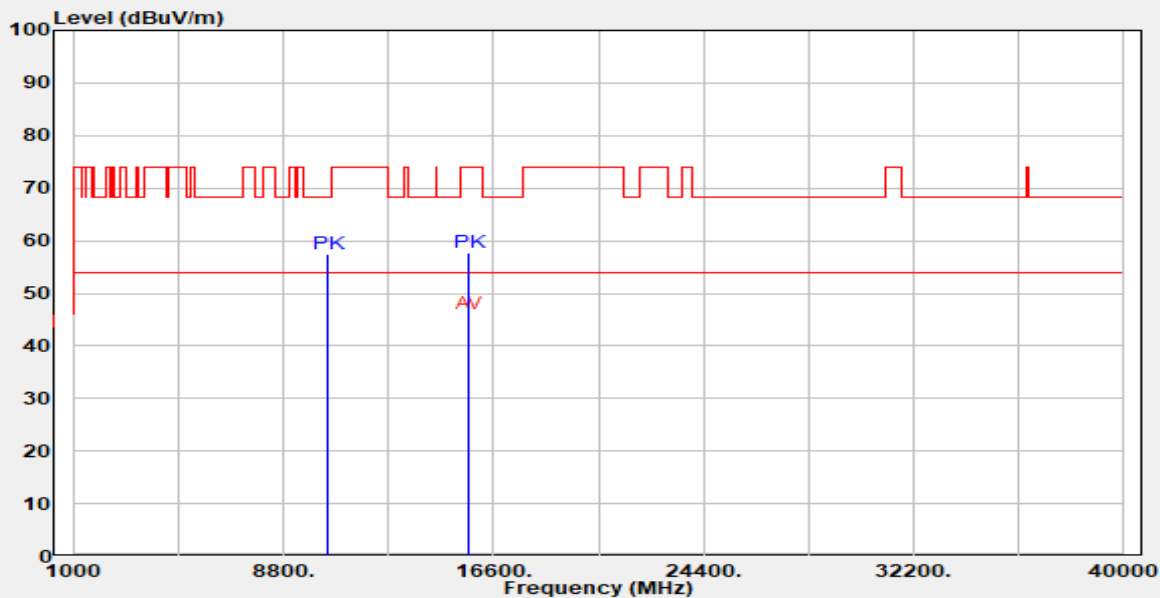
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	44.27	13.21	57.48	68.20	-10.72
15660.00	Average	35.40	10.80	46.20	54.00	-7.80
15660.00	Peak	46.35	10.80	57.15	74.00	-16.85

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5220 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Horizontal
Engineer :Dante Ding



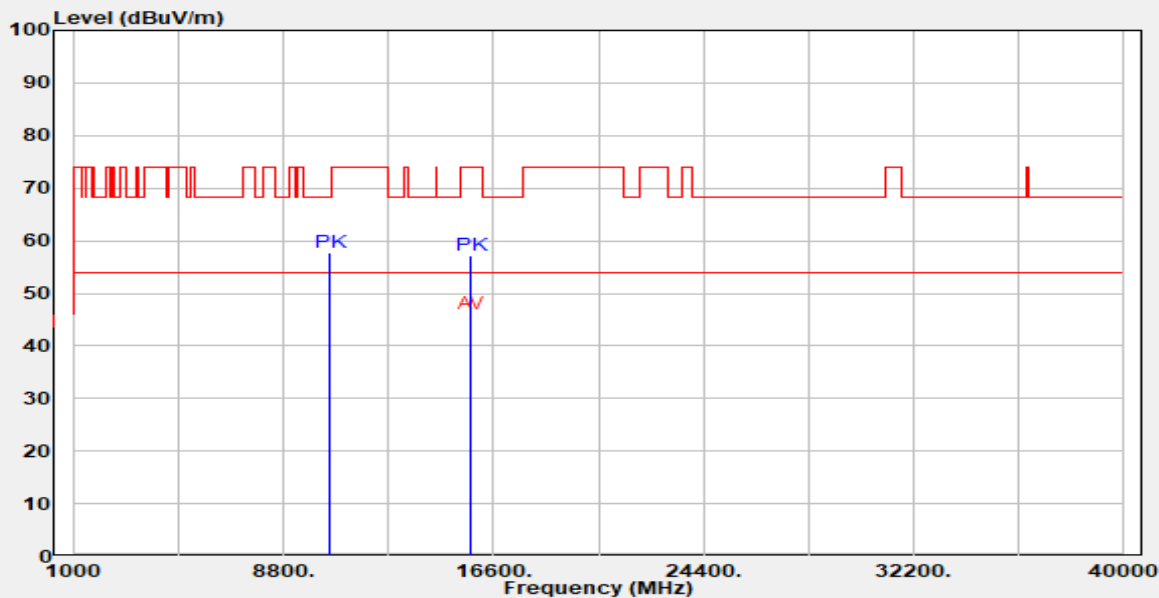
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	44.18	13.21	57.39	68.20	-10.81
15660.00	Average	35.38	10.80	46.18	54.00	-7.82
15660.00	Peak	46.95	10.80	57.75	74.00	-16.25

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5240 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



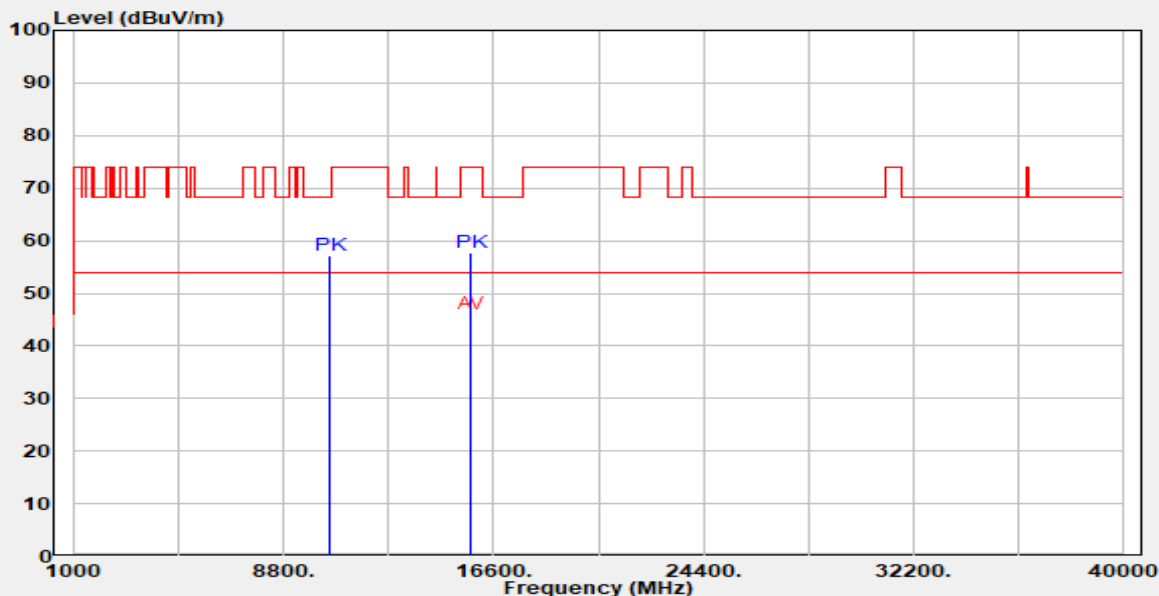
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	44.37	13.24	57.61	68.20	-10.59
15720.00	Average	35.16	11.03	46.19	54.00	-7.81
15720.00	Peak	46.15	11.03	57.18	74.00	-16.82

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5240 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Horizontal
Engineer :Dante Ding



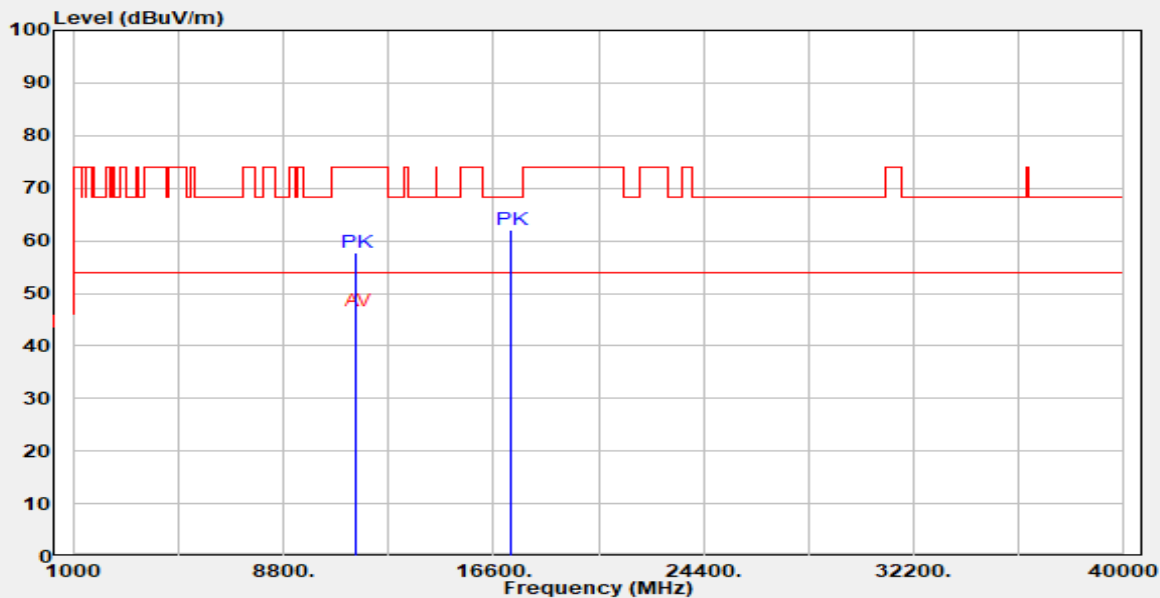
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	44.03	13.24	57.27	68.20	-10.93
15720.00	Average	35.16	11.03	46.19	54.00	-7.81
15720.00	Peak	46.62	11.03	57.65	74.00	-16.35

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5745 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



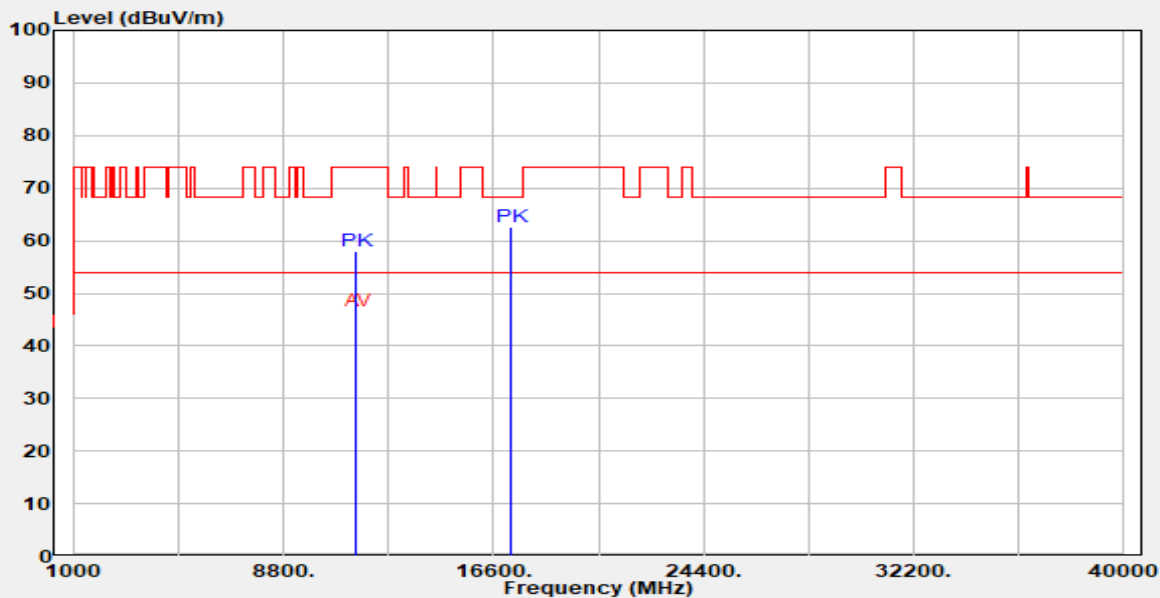
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	33.27	13.35	46.62	54.00	-7.38
11490.00	Peak	44.32	13.35	57.67	74.00	-16.33
17235.00	Peak	48.56	13.45	62.01	68.20	-6.19

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5745 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Horizontal
Engineer :Dante Ding



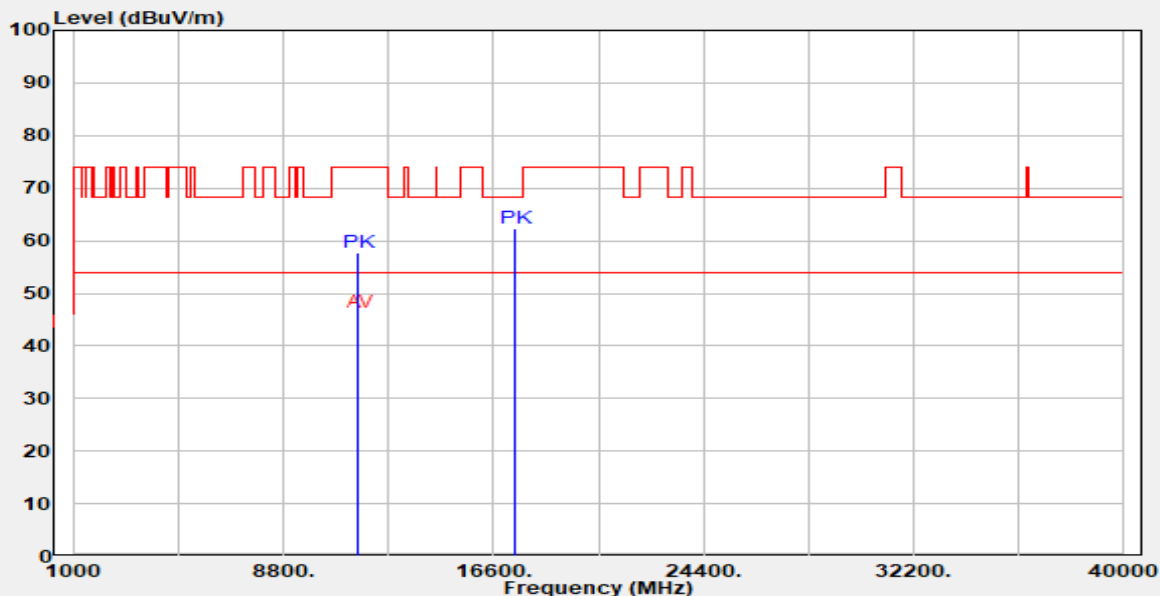
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	33.31	13.35	46.66	54.00	-7.34
11490.00	Peak	44.59	13.35	57.94	74.00	-16.06
17235.00	Peak	49.09	13.45	62.54	68.20	-5.66

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5785 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



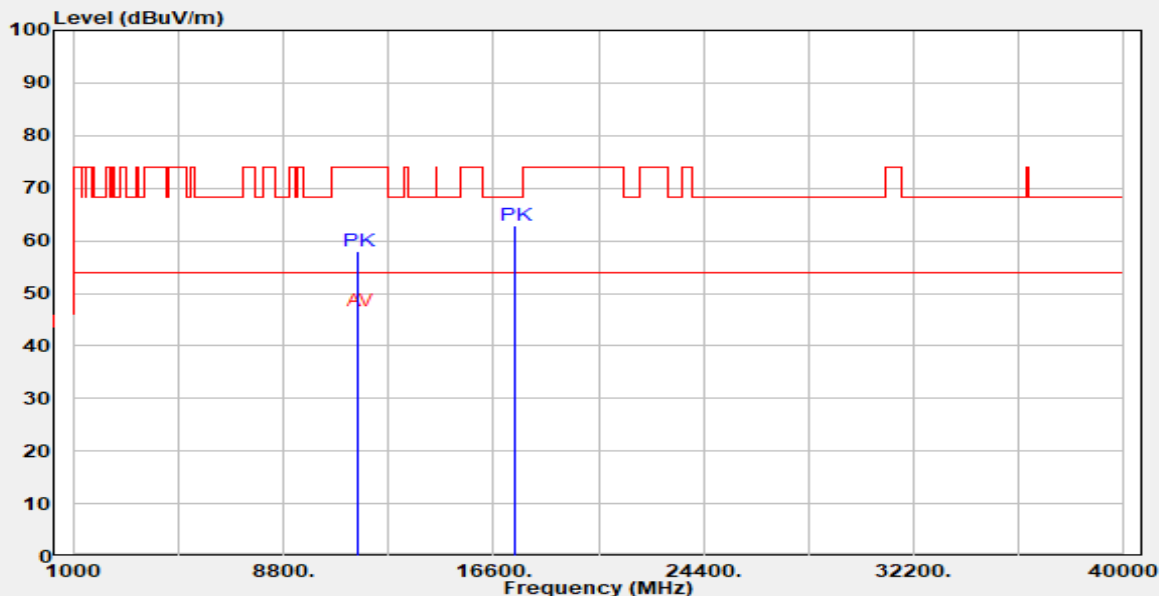
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	Average	33.23	13.23	46.46	54.00	-7.54
11570.00	Peak	44.58	13.23	57.81	74.00	-16.19
17355.00	Peak	48.40	14.03	62.43	68.20	-5.77

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Report Number :TERF2506002138ER
 Operation Mode :802.11n20
 Test Frequency :5785 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :21.5°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



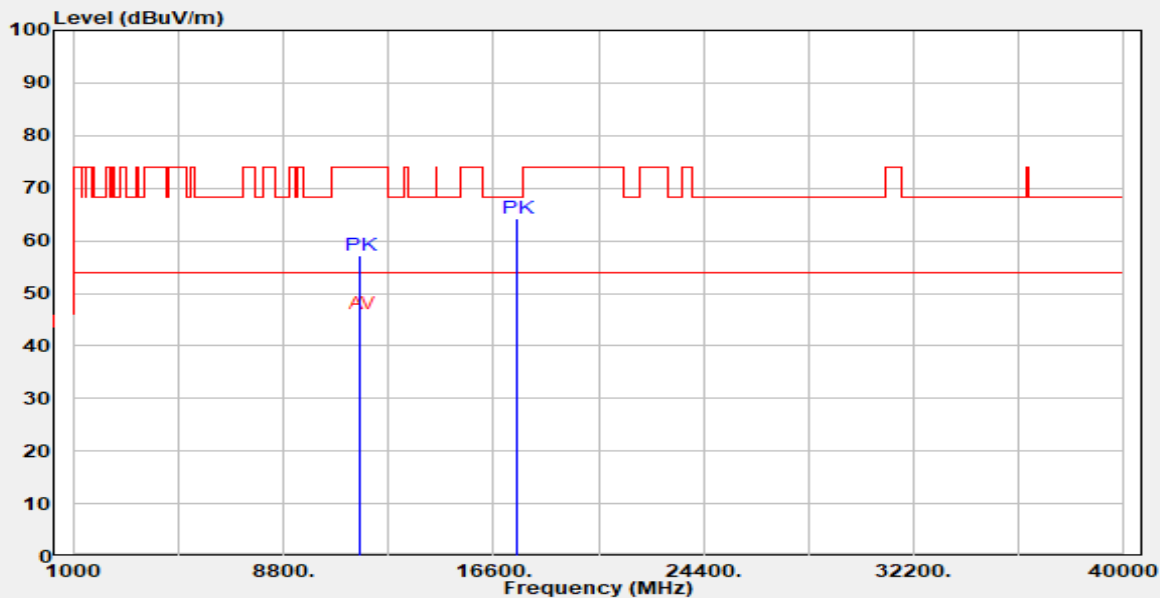
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	Average	33.28	13.23	46.51	54.00	-7.49
11570.00	Peak	44.73	13.23	57.96	74.00	-16.04
17355.00	Peak	48.76	14.03	62.79	68.20	-5.41

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5825 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



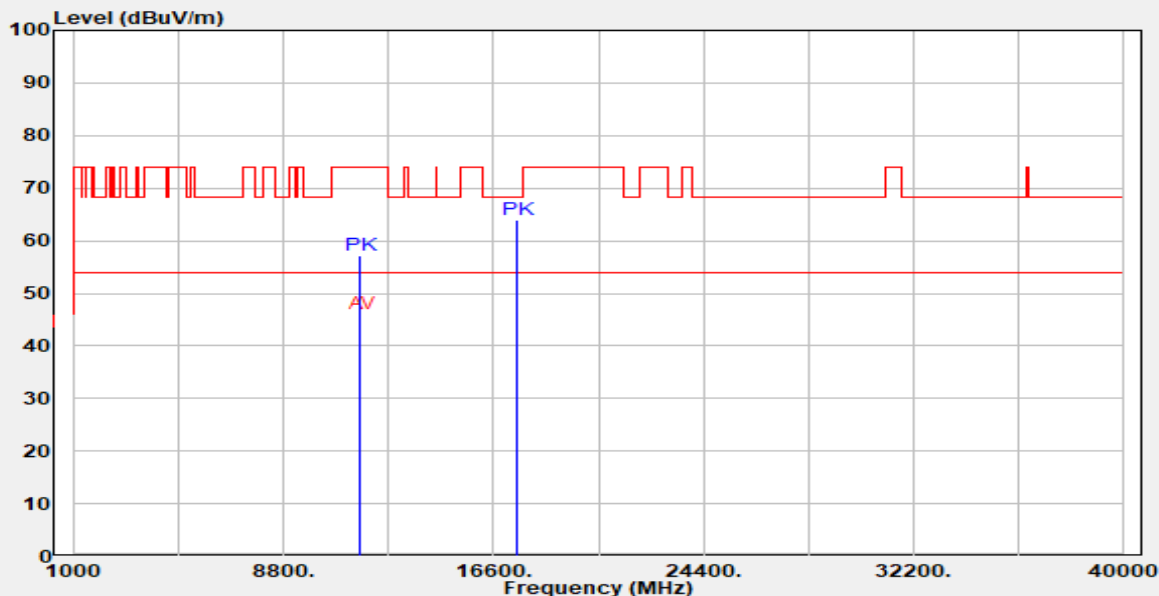
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	Average	33.37	12.74	46.11	54.00	-7.89
11650.00	Peak	44.52	12.74	57.26	74.00	-16.74
17475.00	Peak	49.40	14.85	64.25	68.20	-3.95

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5825 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :21.5°C/61%
Antenna Pol. :Horizontal
Engineer :Dante Ding



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	Average	33.37	12.74	46.11	54.00	-7.89
11650.00	Peak	44.37	12.74	57.11	74.00	-16.89
17475.00	Peak	49.07	14.85	63.92	68.20	-4.28

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11.6.2 Band edge falling to restricted band

Report Number :TERF2506002138ER

Test Site :SAC 1

Operation Mode :802.11a

Test Date :2025-07-07

Test Frequency :5180 MHz

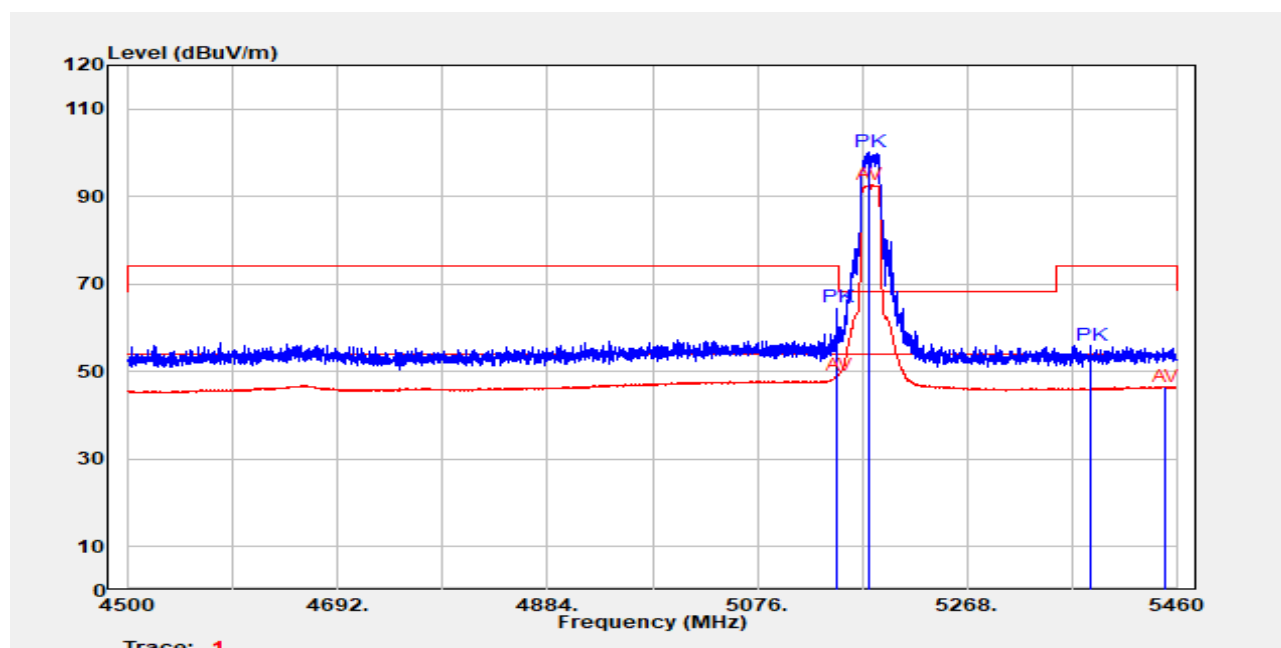
Temp./Humi. :20.2°C/61%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Dante Ding



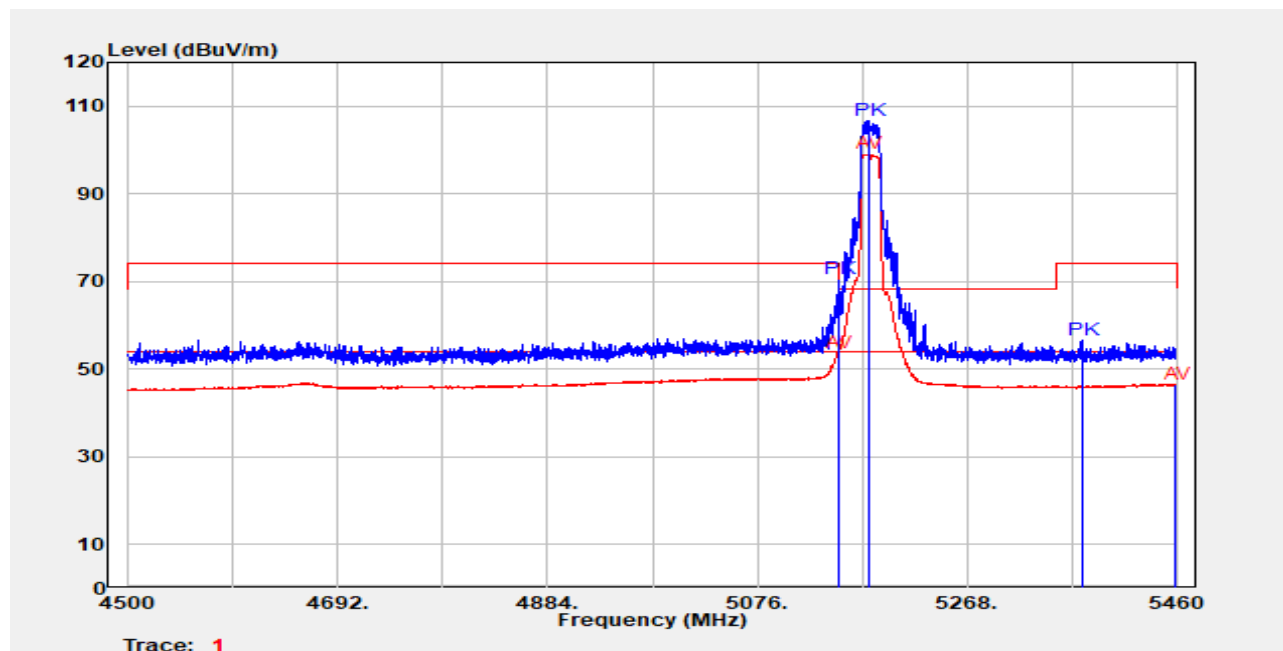
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5148.64	Peak	60.53	4.23	64.76	74.00	-9.24
5149.60	Average	45.01	4.23	49.24	54.00	-4.76
5178.41	Average	88.57	4.03	92.60	-	-
5178.41	Peak	96.08	4.03	100.11	-	-
5381.26	Peak	51.93	3.88	55.81	74.00	-18.19
5449.44	Average	42.45	4.13	46.58	54.00	-7.42

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



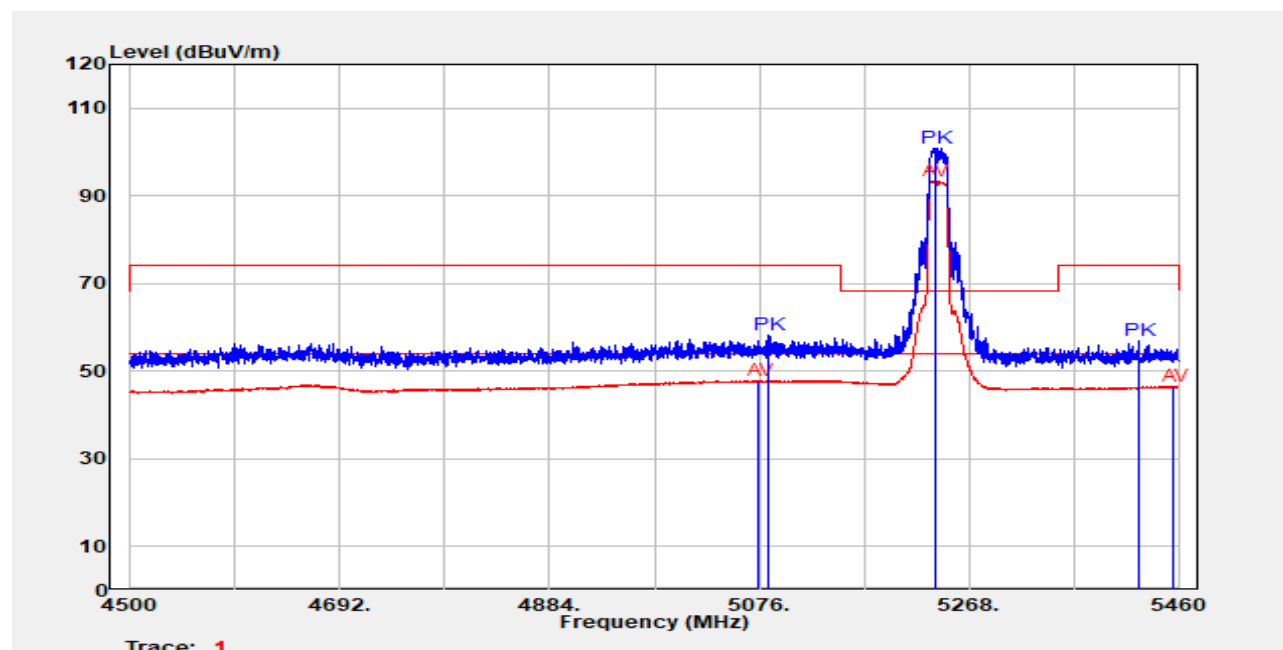
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5149.84	Average	49.43	4.23	53.66	54.00	-0.34
5150.00	Peak	66.37	4.23	70.60	74.00	-3.40
5178.65	Average	95.02	4.03	99.05	-	-
5178.65	Peak	102.53	4.03	106.56	-	-
5373.10	Peak	52.65	3.89	56.54	74.00	-17.46
5459.28	Average	42.38	4.15	46.53	54.00	-7.47

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5240 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



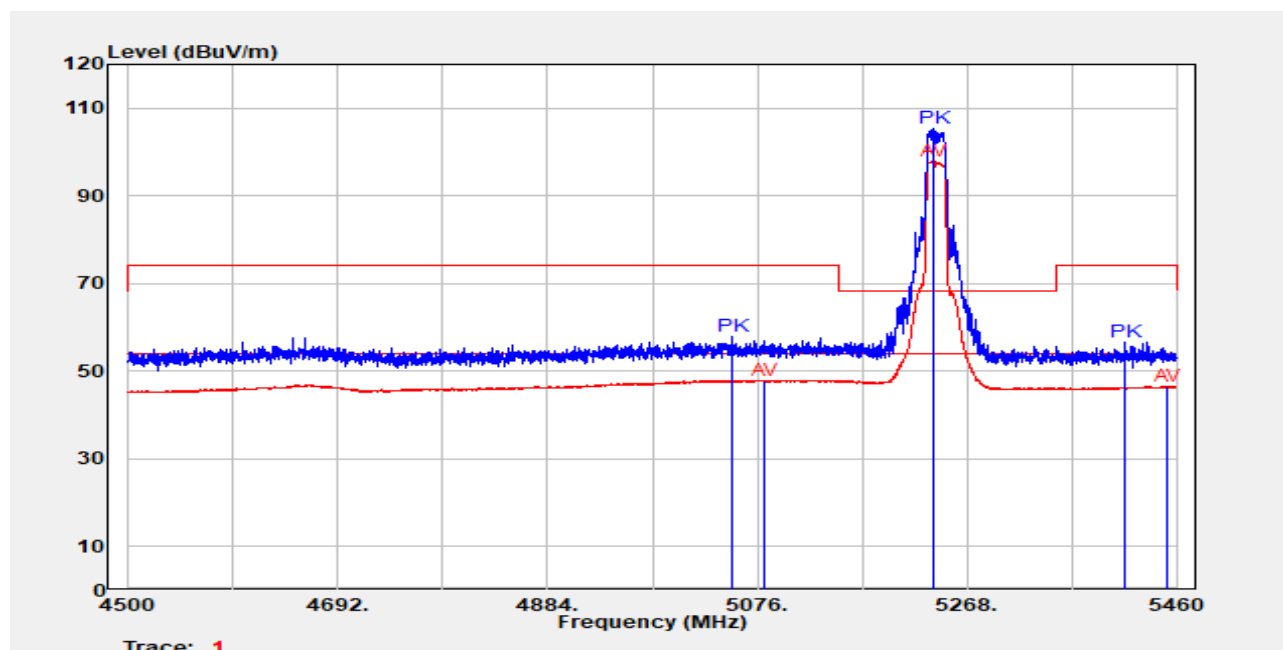
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5075.66	Average	43.82	4.11	47.93	54.00	-6.07
5084.55	Peak	54.06	4.12	58.18	74.00	-15.82
5237.46	Average	89.68	3.78	93.46	-	-
5237.46	Peak	97.12	3.78	100.90	-	-
5424.23	Peak	52.79	4.00	56.79	74.00	-17.21
5455.68	Average	42.34	4.14	46.48	54.00	-7.52

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5240 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



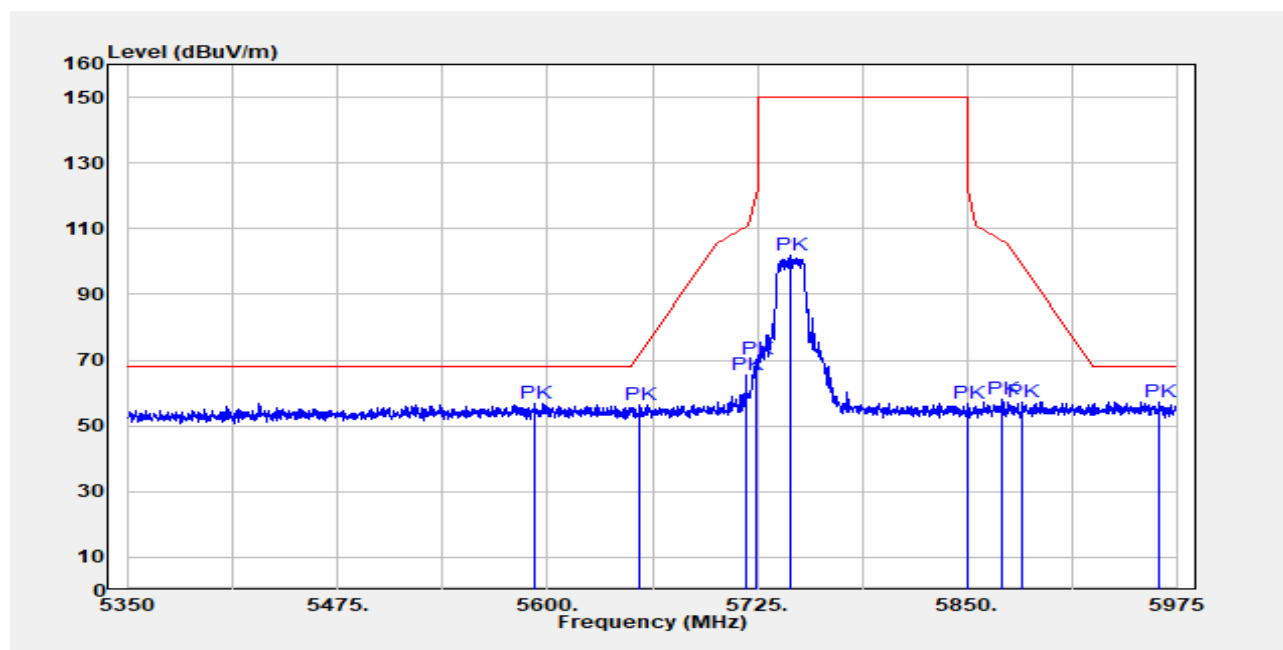
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5052.62	Peak	53.91	4.12	58.03	74.00	-15.97
5081.91	Average	43.83	4.11	47.94	54.00	-6.06
5237.22	Average	94.04	3.78	97.82	-	-
5237.22	Peak	101.53	3.78	105.31	-	-
5413.43	Peak	52.68	3.94	56.62	74.00	-17.38
5450.64	Average	42.44	4.13	46.57	54.00	-7.43

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



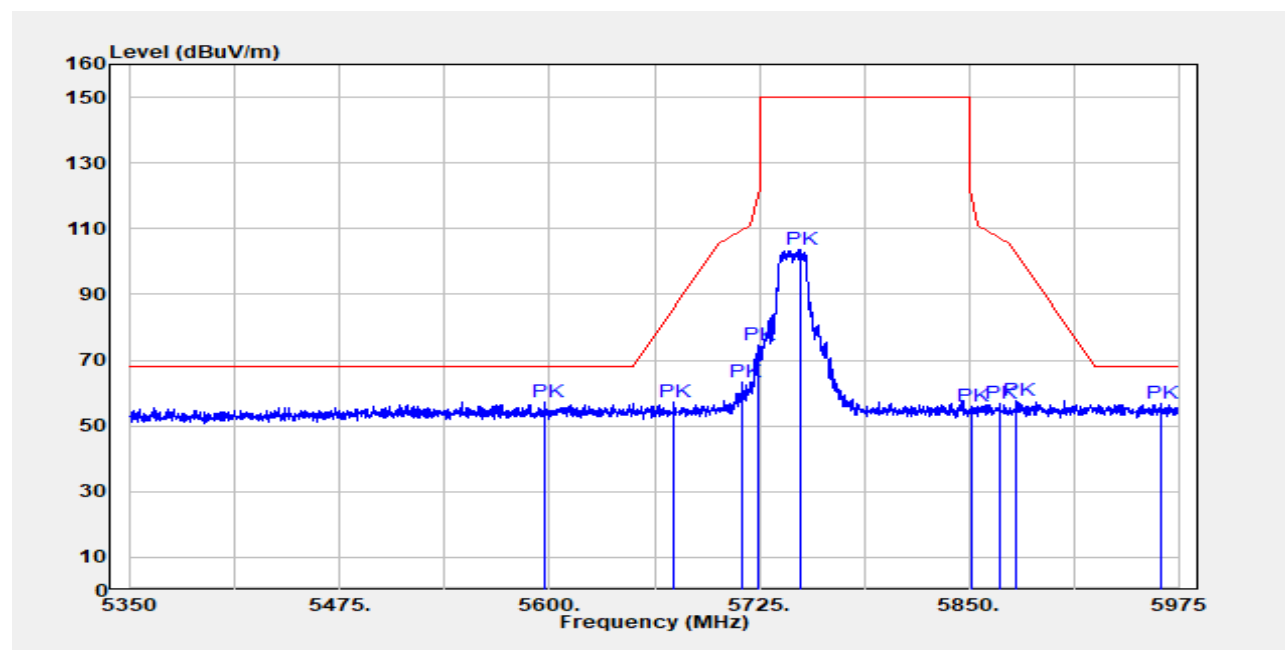
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5592.37	Peak	52.59	4.29	56.88	68.20	-11.32
5654.69	Peak	51.98	4.52	56.50	71.67	-15.17
5718.04	Peak	60.58	4.94	65.52	110.25	-44.73
5724.08	Peak	65.10	4.94	70.04	120.11	-50.07
5745.13	Peak	97.11	4.91	102.02	-	-
5850.38	Peak	51.91	5.09	57.00	121.35	-64.35
5871.42	Peak	52.93	5.16	58.09	106.20	-48.11
5883.09	Peak	52.01	5.19	57.20	99.21	-42.01
5964.37	Peak	52.05	5.27	57.32	68.20	-10.88

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



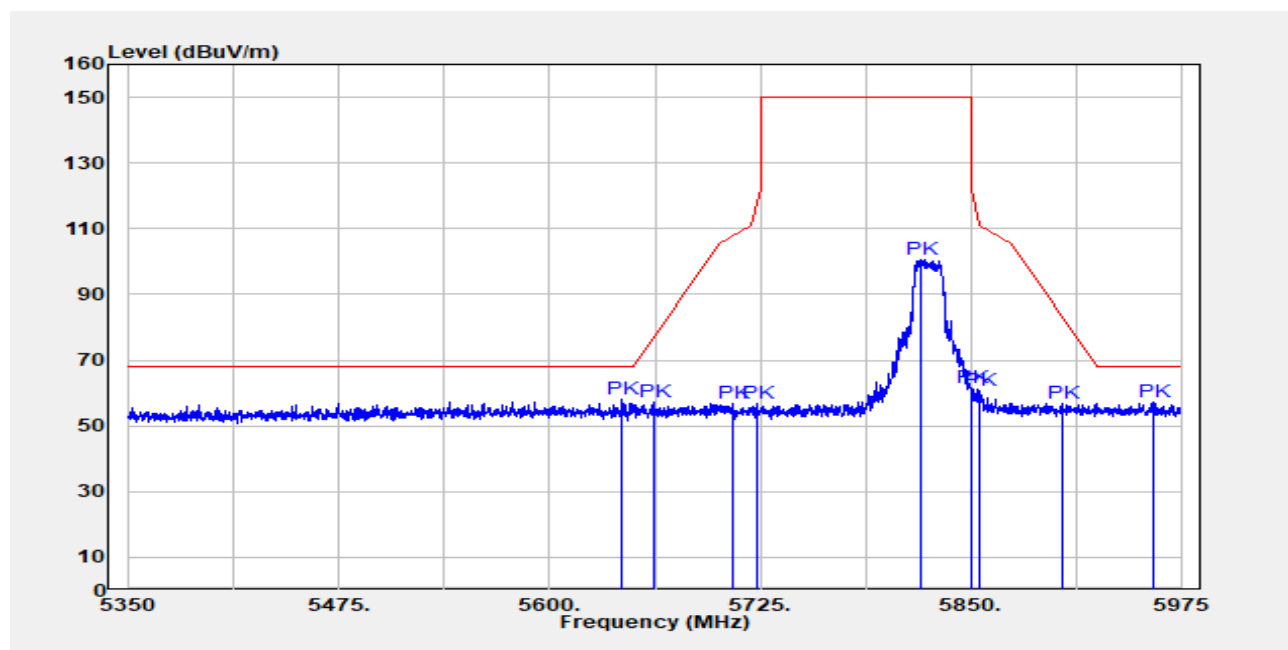
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5597.58	Peak	53.02	4.28	57.30	68.20	-10.90
5674.28	Peak	52.42	4.71	57.13	86.16	-29.03
5715.33	Peak	58.29	4.94	63.23	109.49	-46.26
5724.92	Peak	69.78	4.94	74.72	122.01	-47.29
5749.09	Peak	98.81	4.91	103.72	-	-
5852.25	Peak	50.80	5.10	55.90	117.07	-61.17
5868.51	Peak	51.68	5.14	56.82	107.02	-50.20
5878.72	Peak	52.46	5.17	57.63	102.45	-44.82
5964.37	Peak	51.72	5.27	56.99	68.20	-11.21

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



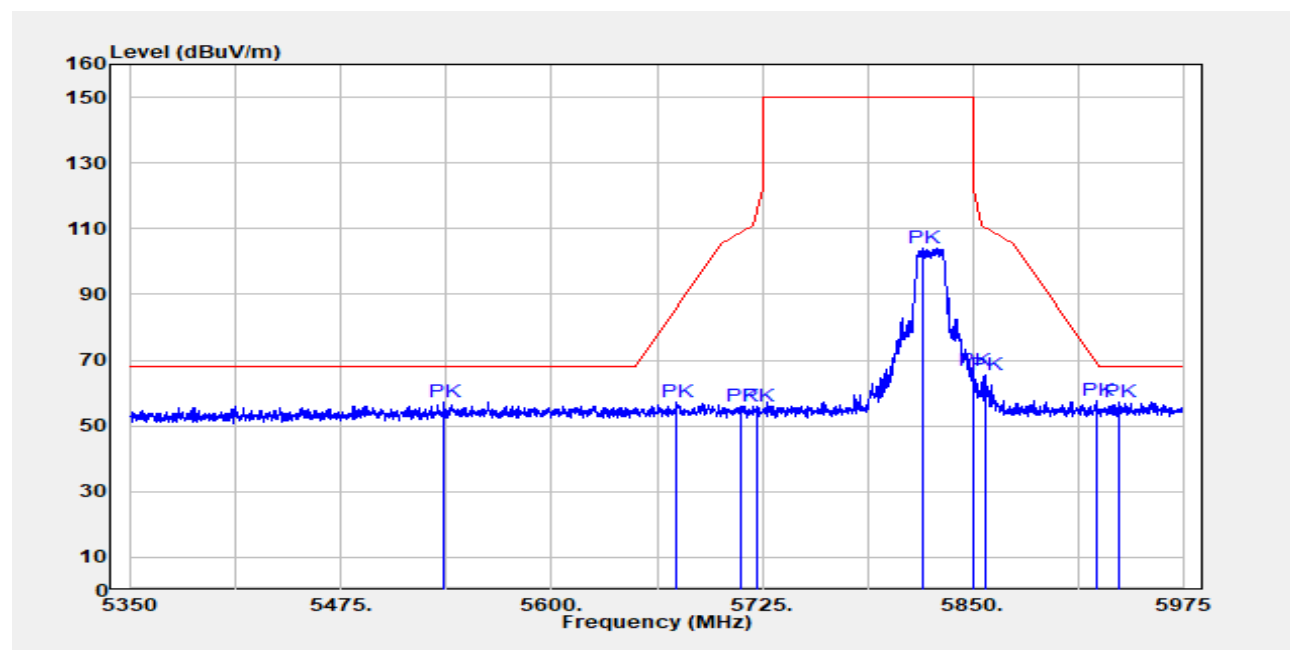
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5643.22	Peak	53.83	4.45	58.28	68.20	-9.92
5661.35	Peak	52.65	4.58	57.23	76.60	-19.37
5708.87	Peak	51.79	4.95	56.74	107.68	-50.94
5723.04	Peak	51.94	4.94	56.88	117.73	-60.85
5820.16	Peak	95.57	5.02	100.59	-	-
5850.00	Peak	56.60	5.10	61.70	122.20	-60.50
5855.38	Peak	55.60	5.11	60.71	110.69	-49.98
5904.35	Peak	51.47	5.23	56.70	83.48	-26.78
5959.16	Peak	52.03	5.24	57.27	68.20	-10.93

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Report Number :TERF2506002138ER
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



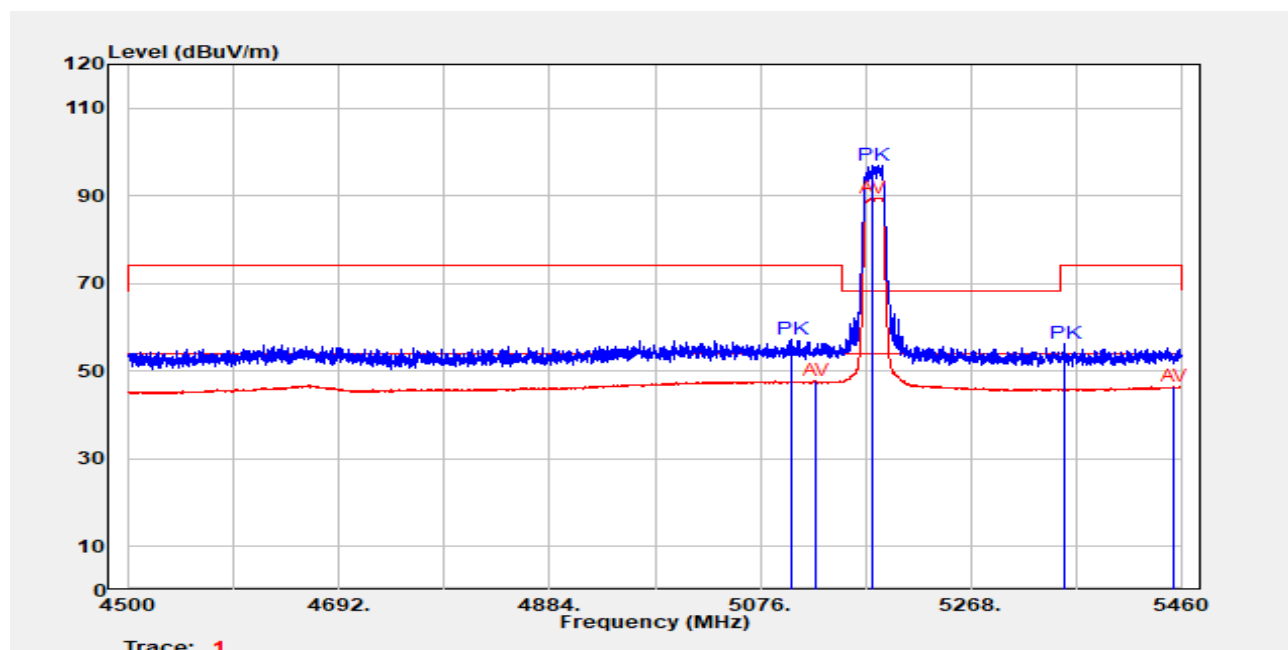
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5535.90	Peak	52.96	4.25	57.21	68.20	-10.99
5674.28	Peak	52.31	4.71	57.02	86.16	-29.14
5712.83	Peak	51.07	4.95	56.02	108.79	-52.77
5722.00	Peak	50.87	4.94	55.81	115.36	-59.55
5820.99	Peak	99.17	5.02	104.19	-	-
5850.17	Peak	61.60	5.09	66.69	121.82	-55.13
5858.09	Peak	60.39	5.12	65.51	109.94	-44.43
5924.15	Peak	52.40	5.21	57.61	68.83	-11.22
5937.07	Peak	51.91	5.21	57.12	68.20	-11.08

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Report Number :TERF2506002138ER
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-07
Temp./Humi. :20.2°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



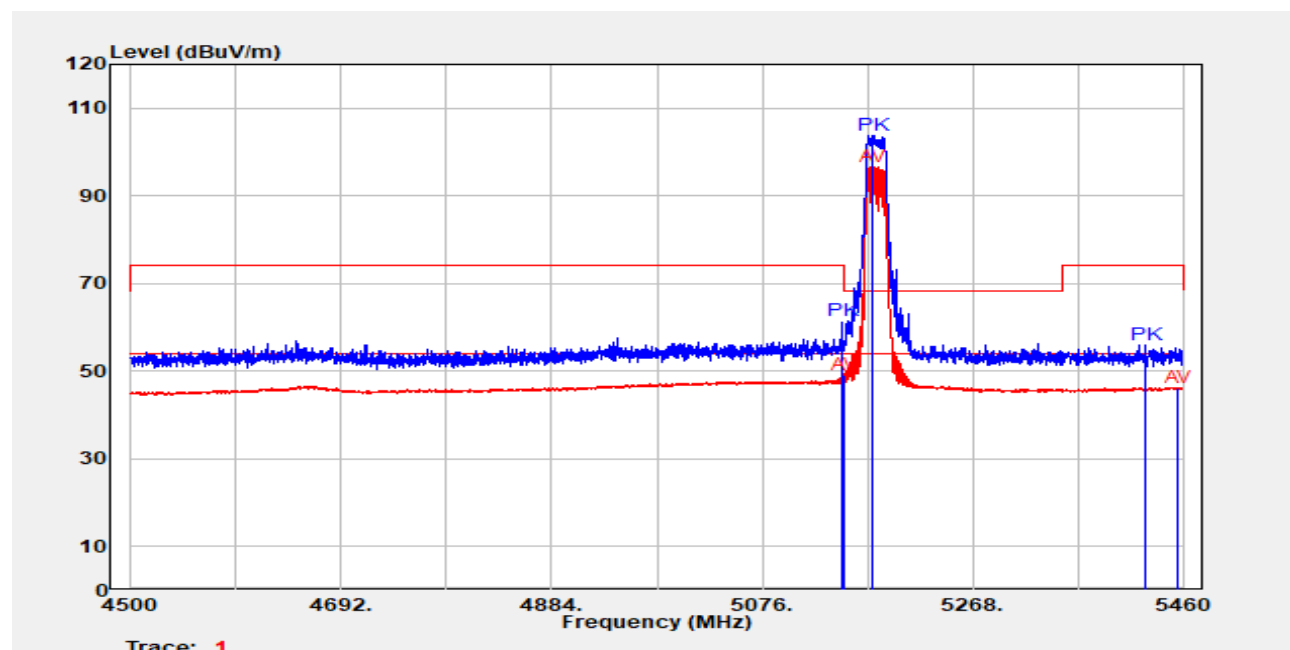
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5103.75	Peak	53.01	4.13	57.14	74.00	-16.86
5125.84	Average	43.58	4.17	47.75	54.00	-6.25
5178.65	Average	85.51	4.03	89.54	-	-
5178.65	Peak	92.96	4.03	96.99	-	-
5354.13	Peak	52.31	3.89	56.20	74.00	-17.80
5453.04	Average	42.25	4.14	46.39	54.00	-7.61

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Report Number :TERF2506002138ER
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



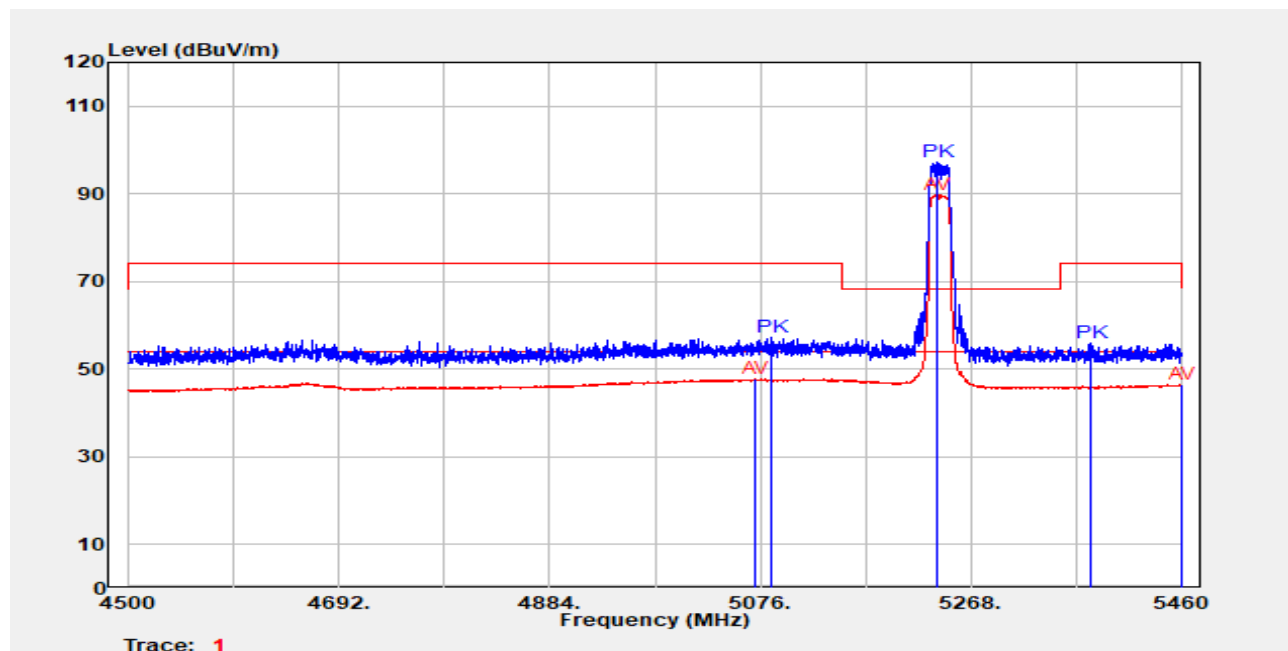
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.16	Peak	57.26	4.23	61.49	74.00	-12.51
5150.00	Average	44.81	4.23	49.04	54.00	-4.96
5175.77	Average	92.54	4.05	96.59	-	-
5175.77	Peak	99.77	4.05	103.82	-	-
5426.15	Peak	51.90	4.01	55.91	74.00	-18.09
5454.48	Average	42.16	4.14	46.30	54.00	-7.70

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Report Number :TERF2506002138ER
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



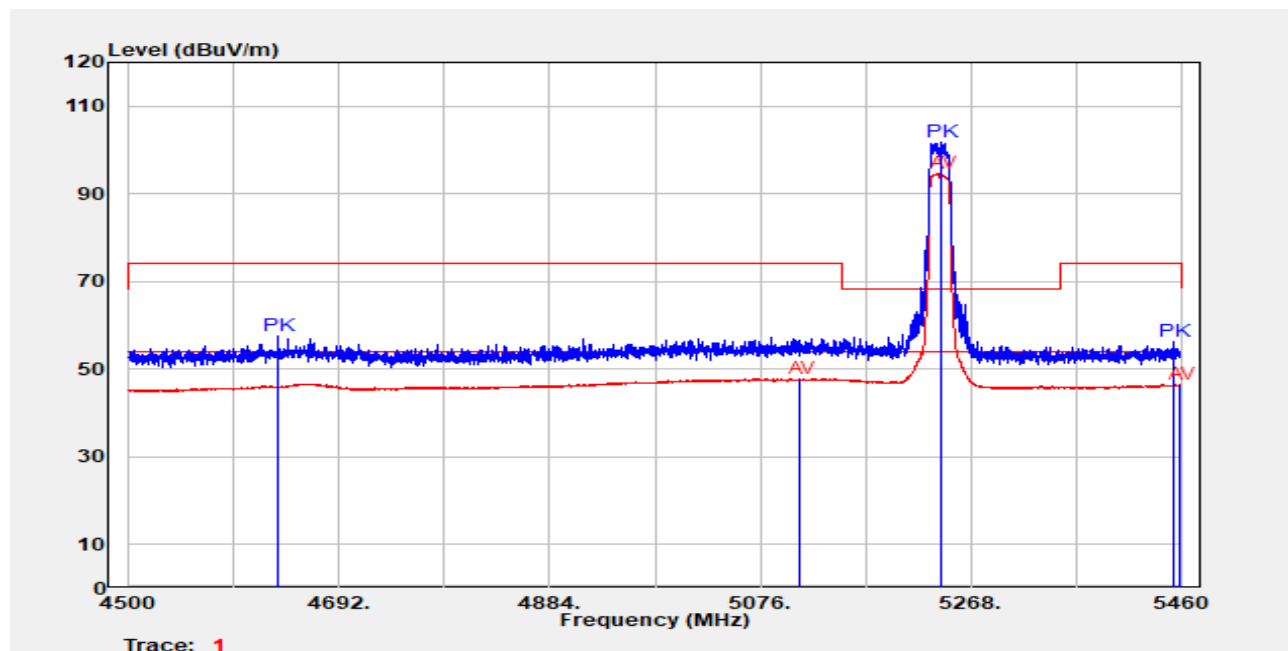
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5071.58	Average	43.64	4.11	47.75	54.00	-6.25
5085.99	Peak	52.99	4.12	57.11	74.00	-16.89
5237.71	Average	86.01	3.78	89.79	-	-
5237.71	Peak	93.30	3.78	97.08	-	-
5376.94	Peak	52.11	3.87	55.98	74.00	-18.02
5460.00	Average	42.40	4.15	46.55	54.00	-7.45

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Report Number :TERF2506002138ER
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



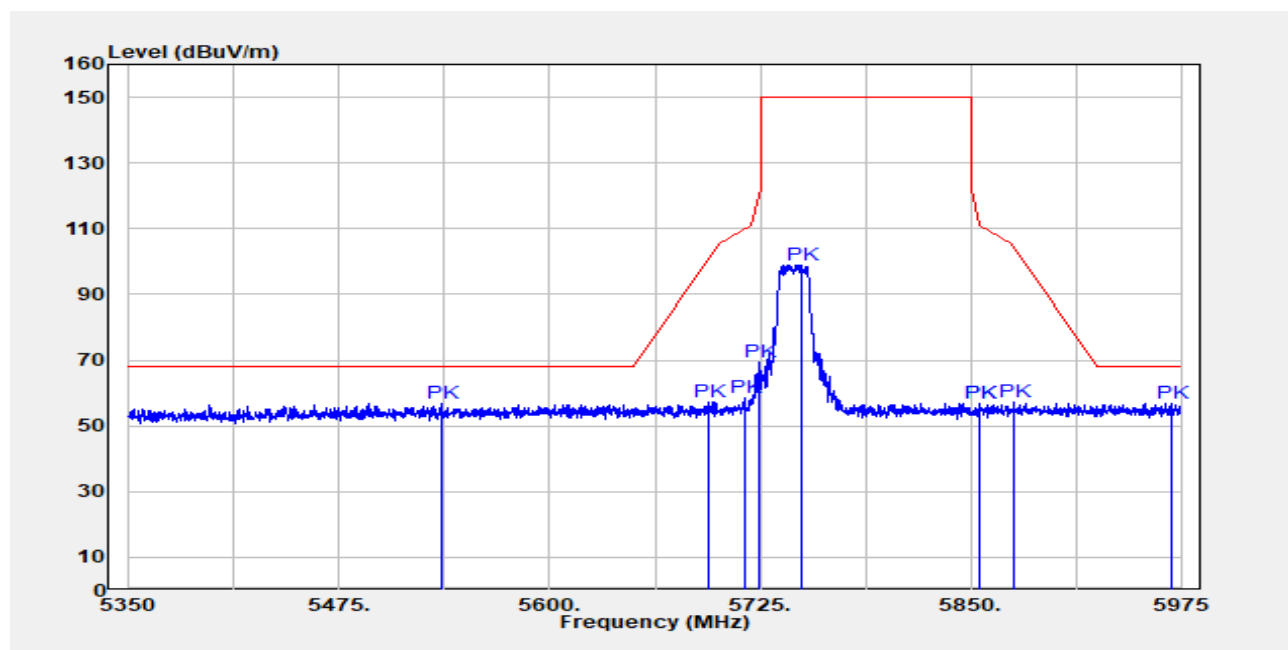
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4636.35	Peak	54.59	2.85	57.44	74.00	-16.56
5112.63	Average	43.62	4.15	47.77	54.00	-6.23
5241.55	Average	90.72	3.77	94.49	-	-
5241.55	Peak	97.89	3.77	101.66	-	-
5453.76	Peak	52.17	4.14	56.31	74.00	-17.69
5459.76	Average	42.31	4.15	46.46	54.00	-7.54

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Report Number :TERF2506002138ER
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



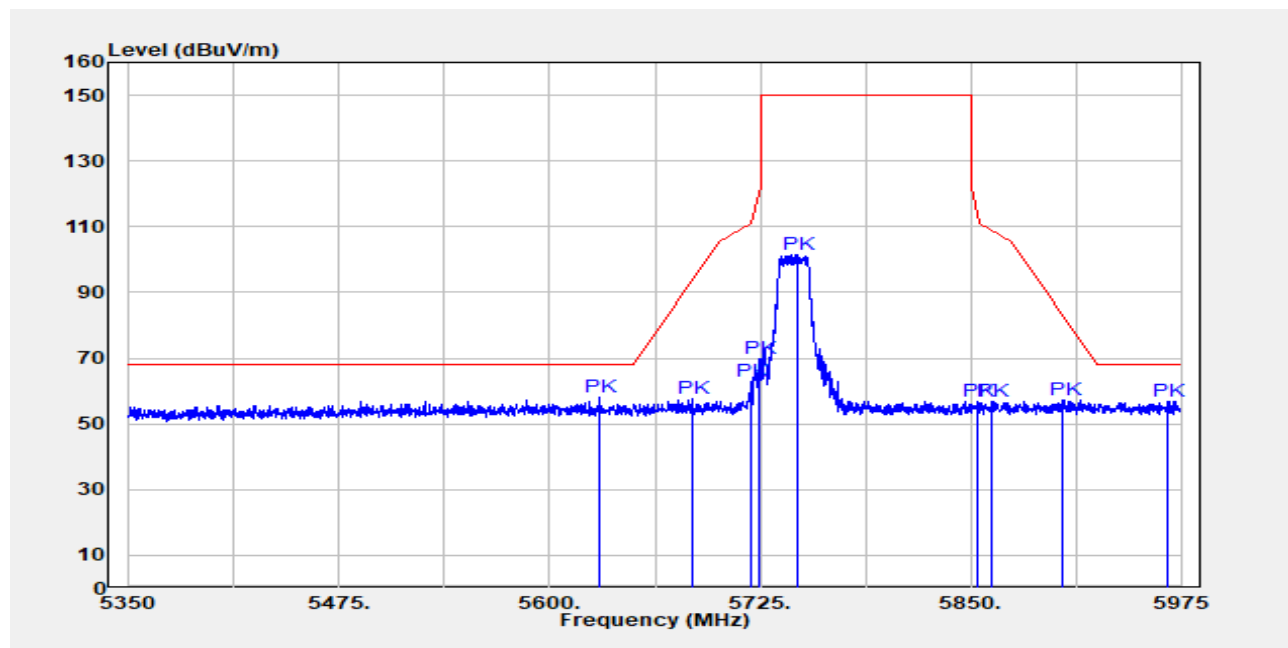
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5535.90	Peak	52.51	4.25	56.76	68.20	-11.44
5694.70	Peak	52.51	4.91	57.42	101.28	-43.86
5715.96	Peak	53.69	4.94	58.63	109.67	-51.04
5724.50	Peak	64.57	4.94	69.51	121.06	-51.55
5749.09	Peak	94.13	4.91	99.04	-	-
5854.96	Peak	51.86	5.11	56.97	110.89	-53.92
5855.17	Peak	51.88	5.11	56.99	110.75	-53.76
5875.59	Peak	52.13	5.16	57.29	104.76	-47.47
5969.37	Peak	51.58	5.29	56.87	68.20	-11.33

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Report Number :TERF2506002138ER
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



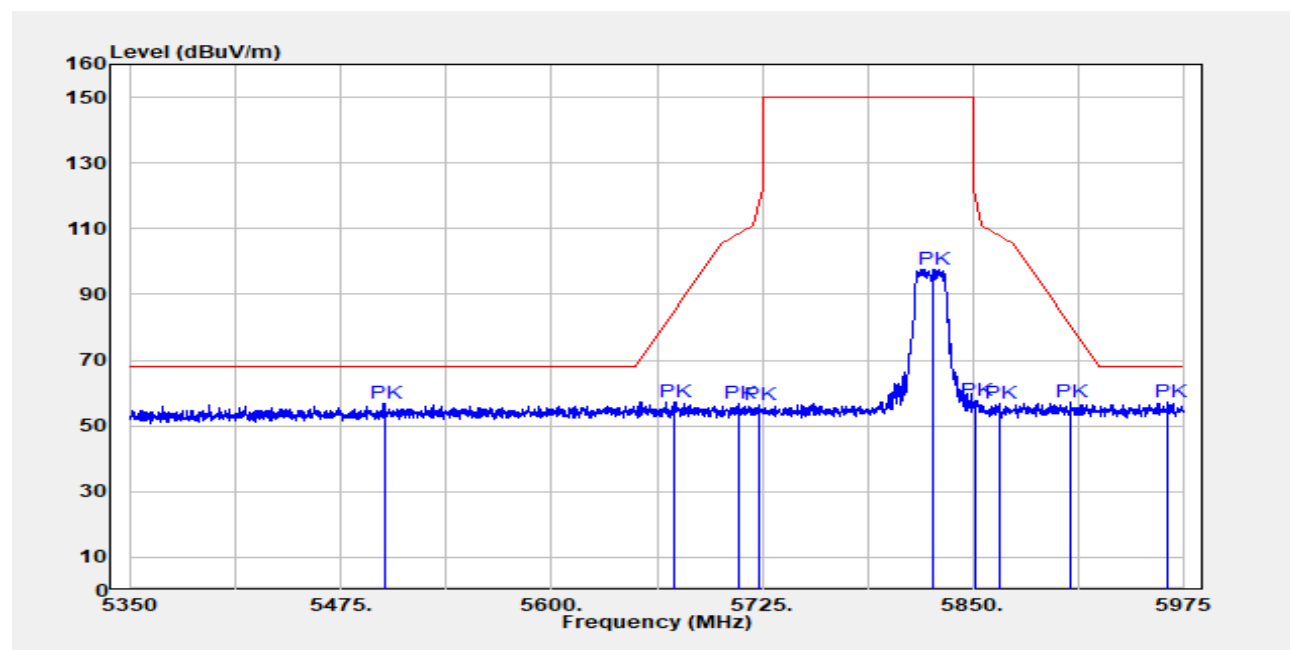
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5629.47	Peak	53.54	4.40	57.94	68.20	-10.26
5684.90	Peak	53.01	4.82	57.83	94.03	-36.20
5719.92	Peak	57.96	4.94	62.90	110.78	-47.88
5724.92	Peak	64.97	4.94	69.91	122.01	-52.10
5746.80	Peak	96.63	4.91	101.54	-	-
5854.13	Peak	51.59	5.11	56.70	112.79	-56.09
5862.46	Peak	51.85	5.13	56.98	108.71	-51.73
5905.19	Peak	52.18	5.22	57.40	82.86	-25.46
5967.50	Peak	51.72	5.28	57.00	68.20	-11.20

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Report Number :TERF2506002138ER
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



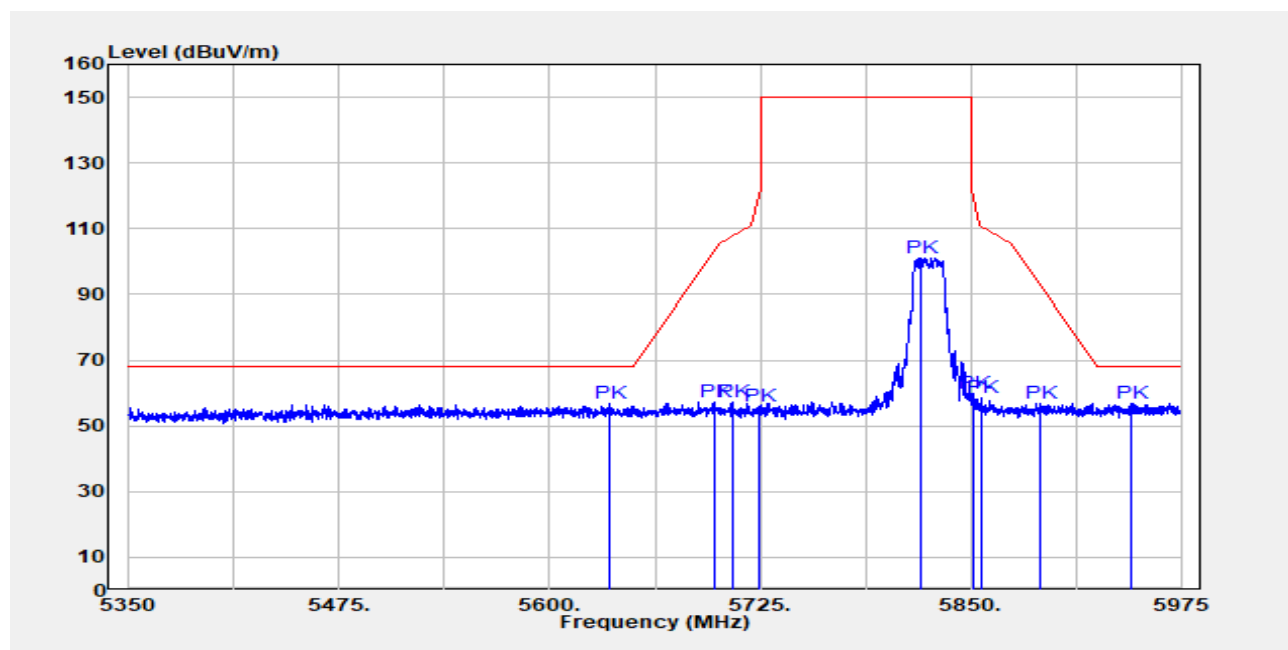
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5500.47	Peak	52.41	4.24	56.65	68.20	-11.55
5673.23	Peak	52.71	4.69	57.40	85.39	-27.99
5710.75	Peak	51.85	4.95	56.80	108.21	-51.41
5722.62	Peak	51.22	4.94	56.16	116.78	-60.62
5826.83	Peak	92.65	5.04	97.69	-	-
5852.25	Peak	52.42	5.10	57.52	117.07	-59.55
5865.59	Peak	51.76	5.13	56.89	107.84	-50.95
5908.10	Peak	52.15	5.22	57.37	80.70	-23.33
5966.46	Peak	52.15	5.28	57.43	68.20	-10.77

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Report Number :TERF2506002138ER
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-07
 Temp./Humi. :20.2°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5635.93	Peak	52.25	4.42	56.67	68.20	-11.53
5697.41	Peak	52.37	4.93	57.30	103.28	-45.98
5708.25	Peak	52.13	4.95	57.08	107.51	-50.43
5724.71	Peak	51.08	4.94	56.02	121.53	-65.51
5820.78	Peak	96.19	5.02	101.21	-	-
5851.21	Peak	54.74	5.09	59.83	119.45	-59.62
5856.63	Peak	53.58	5.12	58.70	110.34	-51.64
5891.01	Peak	51.58	5.20	56.78	93.35	-36.57
5945.41	Peak	51.80	5.21	57.01	68.20	-11.19

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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