FCC PART 15E
TEST REPORT
No. 25T04Z100529-004

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

T513Z

FCC ID: 2ACCJH193

with

Hardware Version: 04

Software Version: 9GS5

Issued Date: 2025-04-25

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn

REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100529-004	Rev.0	1st edition	2025-04-22
25T04Z100529-004	Rev.1	1.Updated antenna gain. 2.Change GSM/UMTS/LTE Mobile phone to GSM/UMTS/LTE/NR Mobile phone.	2025-04-25

Note: the latest revision of the test report supersedes all previous version.

CONTENTS

1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1:CTTL(Gaolizhang Road)

Address: Cuihu Cloud Center, No.1, Gaolizhang Road, Wenquan, Haidian District, Beijing, China

Radiated testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, 100191, P. R. China

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

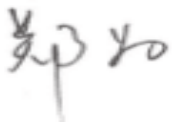
Testing Start Date: 2025-03-31

Testing End Date: 2025-04-17

1.5. Signature

Dong Jiaxuan

(Prepared this test report)



Zheng Wei

(Reviewed this test report)

Pang Shuai

(Approved this test report)

2. Client Information

2.1 Applicant Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact:	Ting Wang
Email:	ting.wang.hz@tcl.com
Telephone:	+86 752 2639091
Fax:	+86 755 3661 2000-81722

2.1. Manufacturer Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact:	Ting Wang
Email:	ting.wang.hz@tcl.com
Telephone:	+86 752 2639091
Fax:	+86 755 3661 2000-81722

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model name	T513Z
FCC ID	2ACCJH193
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Nominal Voltage	3.87V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT32a	016681000014950/ 016681000015049	04	9GS5	2025-03-18
UT33a	016681000015098/ 016681000015197	04	9GS5	2025-03-18
UT69a	016681000014364/ 016681000014463	04	9GS5	2025-04-14

*EUT ID: is used to identify the test sample in the lab internally.

UT32a is used for Conduction test, UT69a is used for Radiation test of band edge, UT33a was used for other radiated testing.

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	USB Cable

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment under Test (EUT) is a model of GSM/UMTS/LTE/NR Mobile phone with integrated antenna and inbuilt battery.

It consists of normal options: travel charger, USB cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

3.5. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor k=2.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

FCC Part15	FCC CFR 47, Part 15, Subpart C and E: 15.205 Restricted bands of operation; 15.207 Conducted limits; 15.209 Radiated emission limits, general requirements; 15.407 General technical requirements.	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

Note:UNII: KDB 789033 D02 is not in the scope of ISO/IEC 17025 accreditation by A2LA.

5. Laboratory Environment

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. Test Results

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	**P**
Peak Power Spectral Density	15.407	/	**P**
Occupied 26dB Bandwidth	15.403	/	**P**
Radiated Unwanted Emission	15.407, 15.205, 15.209	/	**P**
AC Powerline Conducted Emission	15.107, 15.207	/	**P**
99% Occupied bandwidth	/	/	**P**
Transmit Power Control	15.407	/	**NA**

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.87V
Humidity	44%

7. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2025-08-11
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2025-04-30
3	Test Receiver	ESCI	100344	R&S	1 year	2026-04-01
4	LISN	ENV216	101200	R&S	1 year	2025-05-16
5	Attenuator	10dB/2W	/	Rosenberger	/	/
6	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103023	R&S	1 year	2025-06-06
2	EMI Antenna	VULB9163	01222	SCHWARZBECK	1 year	2025-09-11
3	EMI Antenna	3115	00146404	ETS-Lindgren	1 year	2025-05-16
4	EMI Antenna	3116	2663	ETS	1 year	2026-03-03

Test Software

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V8.53.0	R&S
	EMC32 V10.60.20	R&S
Conducted Emission	EMC32 V8.53.0	R&S

8. Measurement Uncertainty

8.1 Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2 Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3 26dB Emission Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4 Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5 Spurious Emissions

Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 2GHz	1.22
2GHz ≤ f ≤3.6GHz	1.22
3.6GHz ≤ f ≤8GHz	1.22
8GHz ≤ f ≤12.75GHz	1.51
12.75GHz ≤ f ≤26GHz	1.51
26GHz ≤ f ≤40GHz	1.59

Radiated (k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
30MHz ≤ f ≤ 1GHz	4.72
1GHz ≤ f ≤18GHz	4.84
18GHz ≤ f ≤40GHz	5.12

8.6 AC Power-line Conducted Emission

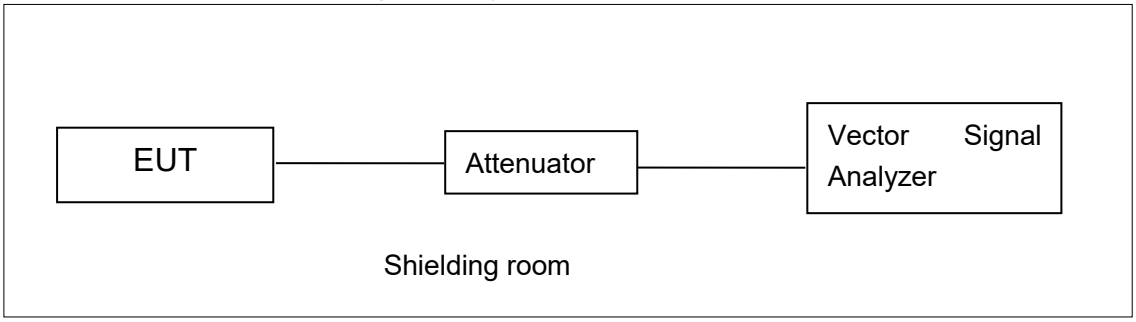
Measurement Uncertainty : 3.08dB,k=2

ANNEX A: Detailed Test Results

A.1. Measurement Method

A.1.1. Conducted Measurements

1). Connect the EUT to the test system correctly.
2). Set the EUT to the required work mode.
3). Set the EUT to the required channel.
4). Set the spectrum analyzer to start measurement.
5). Record the values. Vector Signal Analyzer



A.1.2. Radiated Emission Measurements

Measurement performed according to Clause 6.4, 6.5, 6.6 in ANSI C63.10-2013 and II.G.4, II.G.5, II.G.6 in KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The EUT was placed on a non-conductive table with 80cm above the ground plane for measurement below 1GHz and 1.5m above the ground plane for measurement above 1GHz. The measurement antenna was placed at a distance of 3 meters from the EUT. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated from 0° to 360°and the measurement antenna is moved from 1m to 4m to get the maximization result. The maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

A.2. Maximum output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	24dBm
	5250MHz~5350MHz	24dBm or 11+10logB
	5470MHz~5725MHz	24dBm or 11+10logB

Limit use the less value, and B is the 26dB bandwidth.

The measurementmethod SA-2 is made according to KDB 789033

A.2.1 Antenna Gain

Antenna gain is -4.18dBi and the value is supplied by the applicant or manufacturer.

A.2.2 Maximum output Power-Conducted

EUT ID: UT32a

Measurement Results:

802.11a mode

Mode	Frequency	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz	17.97	/	/	/	/	/	/	/
	5200MHz	17.98	/	/	/	/	/	/	/
	5240MHz	17.88	/	/	/	/	/	/	/
	5260MHz	17.94	/	/	/	/	/	/	/
	5280MHz	18.14	/	/	/	/	/	/	/
	5320MHz	18.39	/	/	/	/	/	/	/
	5500MHz	18.07	/	/	/	/	/	/	/
	5580MHz	18.03	/	/	/	/	/	/	/
	5700MHz	17.64	/	/	/	/	/	/	/
	5720MHz	17.56	/	/	/	/	/	/	/

The data rate 6Mbps is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT20)	5180MHz	17.76	/	/	/	/	/	/	/
	5200MHz	18.11	/	/	/	/	/	/	/
	5240MHz	17.73	/	/	/	/	/	/	/
	5260MHz	18.22	/	/	/	/	/	/	/
	5280MHz	17.58	/	/	/	/	/	/	/
	5320MHz	18.24	/	/	/	/	/	/	/
	5500MHz	17.92	/	/	/	/	/	/	/
	5580MHz	17.83	/	/	/	/	/	/	/
	5700MHz	17.58	/	/	/	/	/	/	/
	5720MHz	17.86	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT20 mode

Mode	Frequency	Test Result (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
802.11ac (VHT20)	5180MHz	16.95	/	/	/	/	/	/	/	/
	5200MHz	17.34	/	/	/	/	/	/	/	/
	5240MHz	17.33	/	/	/	/	/	/	/	/
	5260MHz	17.44	/	/	/	/	/	/	/	/
	5280MHz	17.25	/	/	/	/	/	/	/	/
	5320MHz	17.48	/	/	/	/	/	/	/	/
	5500MHz	17.53	/	/	/	/	/	/	/	/
	5580MHz	17.46	/	/	/	/	/	/	/	/
	5700MHz	17.27	/	/	/	/	/	/	/	/
	5720MHz	17.07	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT40)	5190MHz	16.61	/	/	/	/	/	/	/
	5230MHz	16.67	/	/	/	/	/	/	/
	5270MHz	16.56	/	/	/	/	/	/	/
	5310MHz	16.81	/	/	/	/	/	/	/
	5510MHz	16.85	/	/	/	/	/	/	/
	5550MHz	16.93	/	/	/	/	/	/	/
	5670MHz	16.82	/	/	/	/	/	/	/
	5710MHz	16.49	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT40 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT40)	5190MHz	15.91	/	/	/	/	/	/	/	/	/
	5230MHz	16.43	/	/	/	/	/	/	/	/	/
	5270MHz	16.21	/	/	/	/	/	/	/	/	/
	5310MHz	16.39	/	/	/	/	/	/	/	/	/
	5510MHz	15.98	/	/	/	/	/	/	/	/	/
	5550MHz	16.01	/	/	/	/	/	/	/	/	/
	5670MHz	16.32	/	/	/	/	/	/	/	/	/
	5710MHz	16.07	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

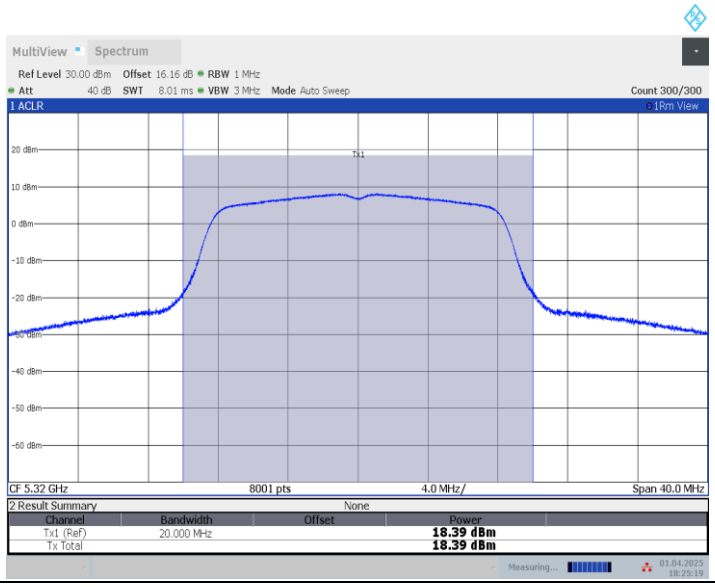
802.11ac-VHT80 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT80)	5210MHz	14.77	/	/	/	/	/	/	/	/	/
	5290MHz	14.91	/	/	/	/	/	/	/	/	/
	5530MHz	14.64	/	/	/	/	/	/	/	/	/
	5610MHz	14.67	/	/	/	/	/	/	/	/	/
	5690MHz	14.55	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

The duty cycle of all mode >98%

Maximum output Power：

11A_Ant1_5320


Conclusion: PASS

A.3. Peak Power Spectral Density (conducted)

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11
	5250MHz~5350MHz	11
	5470MHz~5725MHz	11

The output power measurement method Section F is made according to KDB 789033

EUT ID: UT32a

Measurement Results:

TestMode	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5180	7.76	≤11.00	PASS
	5200	7.67	≤11.00	PASS
	5240	7.69	≤11.00	PASS
	5260	7.79	≤11.00	PASS
	5280	8.06	≤11.00	PASS
	5320	8.15	≤11.00	PASS
	5500	7.83	≤11.00	PASS
	5580	7.81	≤11.00	PASS
	5700	7.41	≤11.00	PASS
	5720	7.67	≤11.00	PASS
11N20SISO	5180	7.32	≤11.00	PASS
	5200	7.75	≤11.00	PASS
	5240	7.32	≤11.00	PASS
	5260	7.90	≤11.00	PASS
	5280	7.14	≤11.00	PASS
	5320	7.83	≤11.00	PASS
	5500	7.56	≤11.00	PASS
	5580	7.54	≤11.00	PASS
	5700	7.17	≤11.00	PASS
	5720	7.59	≤11.00	PASS
11N40SISO	5190	3.23	≤11.00	PASS
	5230	3.47	≤11.00	PASS
	5270	3.56	≤11.00	PASS
	5310	3.38	≤11.00	PASS
	5510	3.50	≤11.00	PASS
	5550	3.55	≤11.00	PASS
	5670	3.61	≤11.00	PASS
	5710	3.17	≤11.00	PASS
11AC80SISO	5210	-1.69	≤11.00	PASS
	5290	-1.45	≤11.00	PASS

	5530	-1.70	≤11.00	PASS
	5610	-1.38	≤11.00	PASS
	5690	-2.01	≤11.00	PASS

Peak Power Spectral Density

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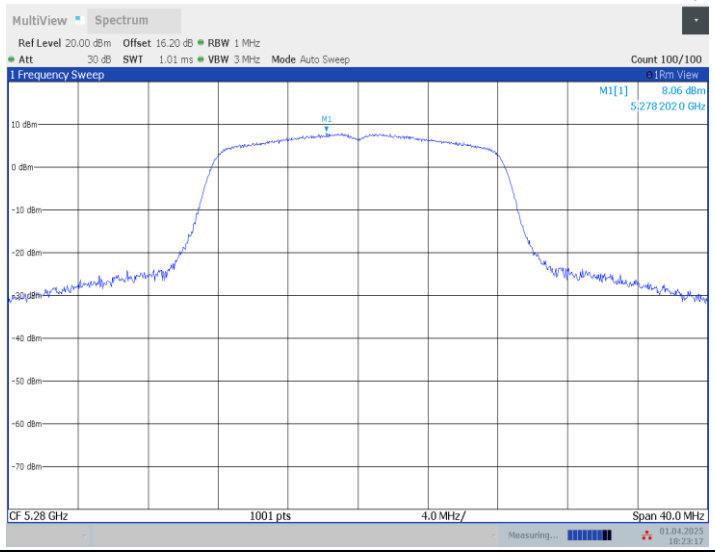


Conclusion: PASS

A.4. 26dB Emission Bandwidth (conducted)

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz

EUT ID: UT32a

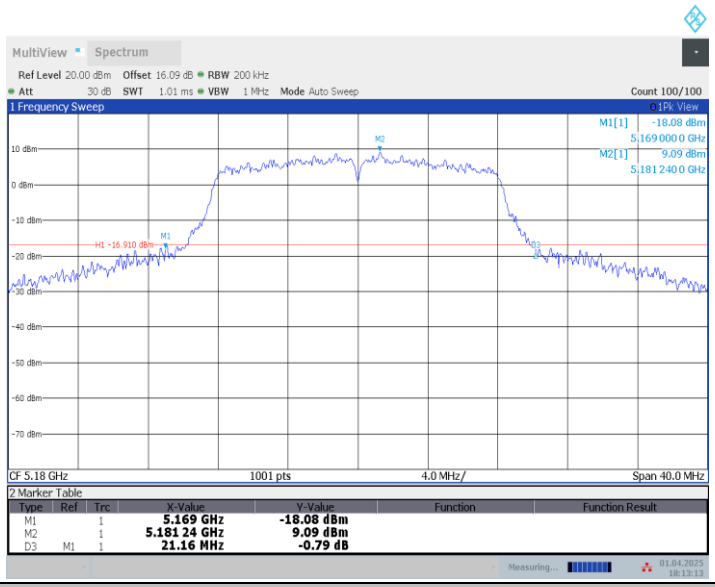
Measurement Result:

TestMode	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	5180	21.16	5169.00	5190.16	---	---
	5200	23.16	5187.84	5211.00	---	---
	5240	20.88	5230.00	5250.88	---	---
	5260	20.24	5249.92	5270.16	---	---
	5280	22.40	5268.92	5291.32	---	---
	5320	23.92	5309.28	5333.20	---	---
	5500	21.68	5489.96	5511.64	---	---
	5580	22.40	5569.52	5591.92	---	---
	5700	25.24	5687.92	5713.16	---	---
	5720	25.28	5707.12	5732.40	---	---
11N20SISO	5180	24.88	5166.08	5190.96	---	---
	5200	23.08	5188.28	5211.36	---	---
	5240	23.08	5228.28	5251.36	---	---
	5260	24.20	5248.00	5272.20	---	---
	5280	21.92	5268.24	5290.16	---	---
	5320	23.12	5308.24	5331.36	---	---
	5500	24.20	5489.16	5513.36	---	---
	5580	21.92	5568.36	5590.28	---	---
	5700	23.08	5688.24	5711.32	---	---
	5720	26.08	5707.88	5733.96	---	---
11N40SISO	5190	65.28	5157.68	5222.96	---	---
	5230	62.00	5199.36	5261.36	---	---
	5270	45.20	5249.12	5294.32	---	---
	5310	63.84	5277.52	5341.36	---	---
	5510	65.60	5477.44	5543.04	---	---
	5550	56.88	5517.44	5574.32	---	---
	5670	63.44	5638.00	5701.44	---	---
	5710	65.20	5677.60	5742.80	---	---

11AC80SISO	5210	81.92	5169.04	5250.96	---	---
	5290	81.60	5249.36	5330.96	---	---
	5530	81.44	5489.20	5570.64	---	---
	5610	81.92	5569.36	5651.28	---	---
	5690	81.44	5649.52	5730.96	---	---

Test graphs as below:

11A_Ant1_5180



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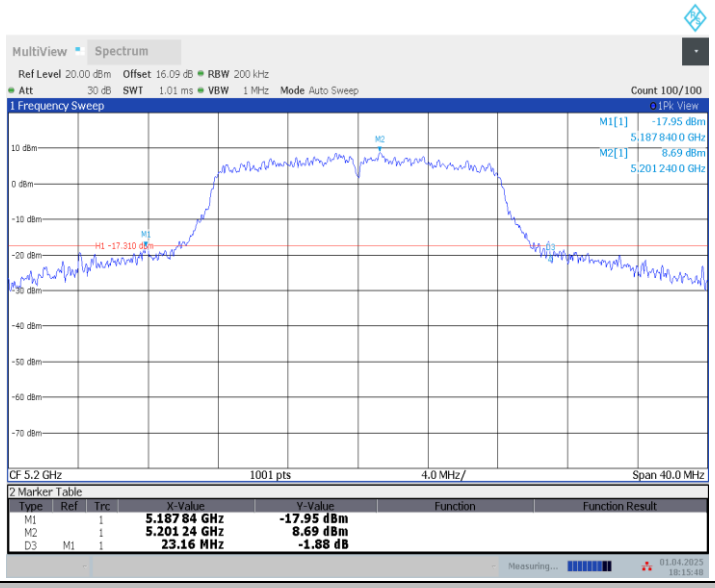

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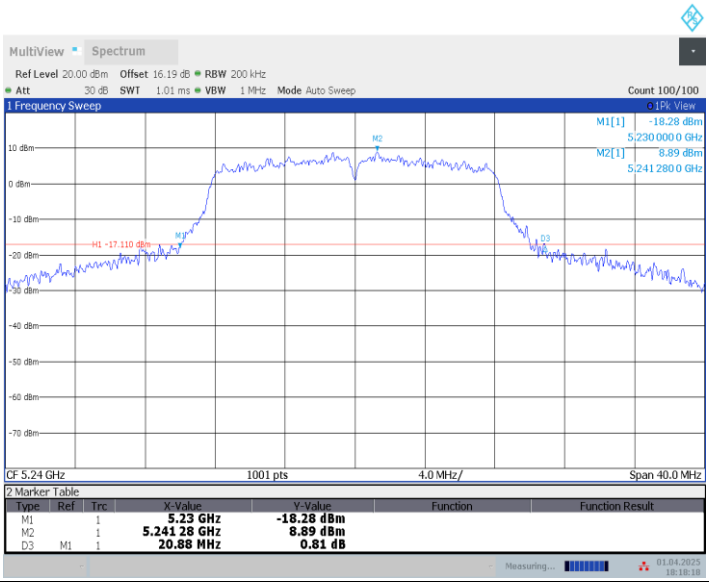

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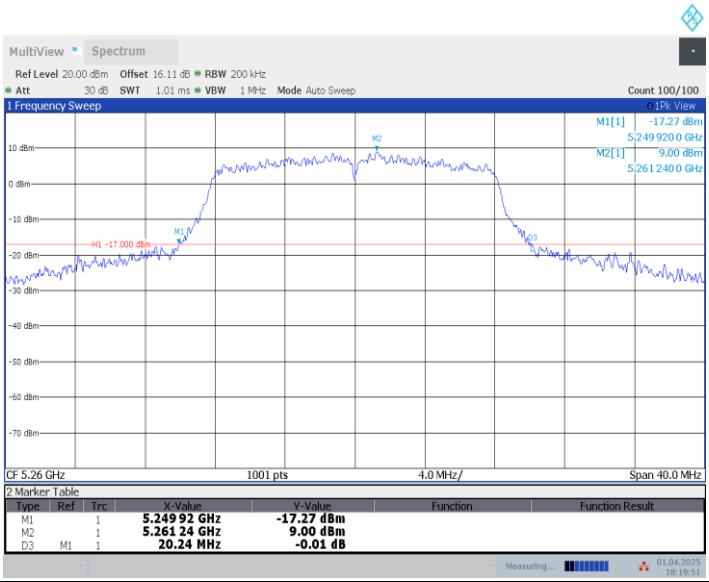

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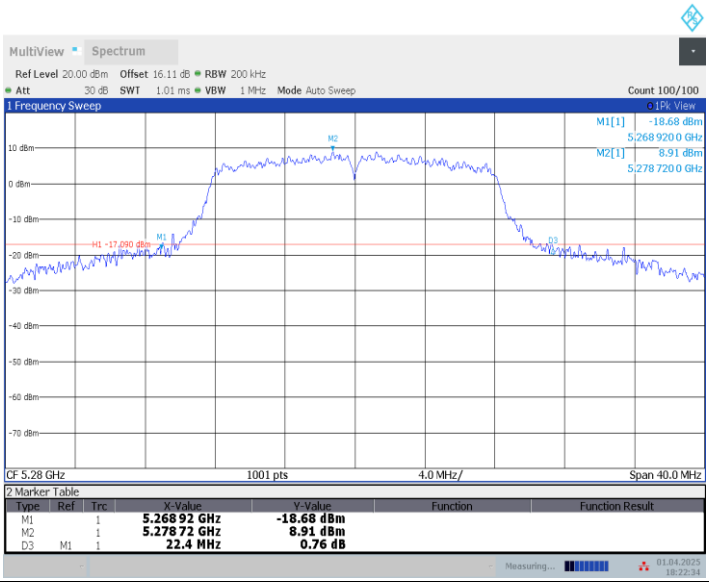
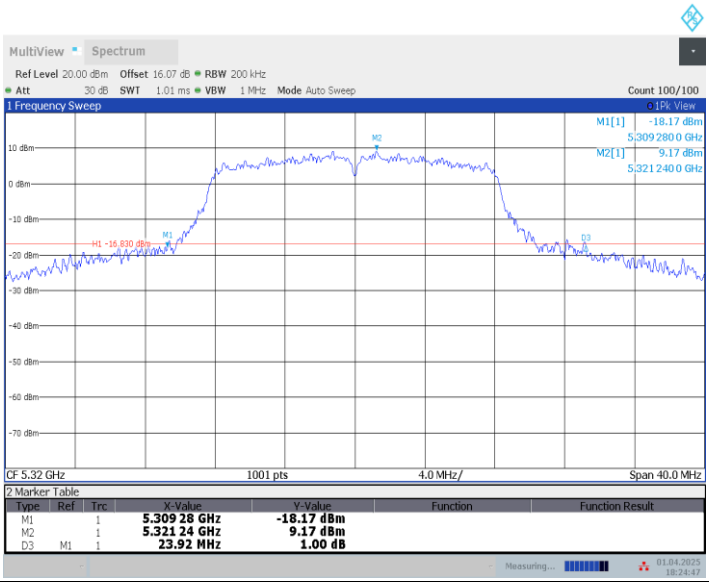


11A_Ant1_5320



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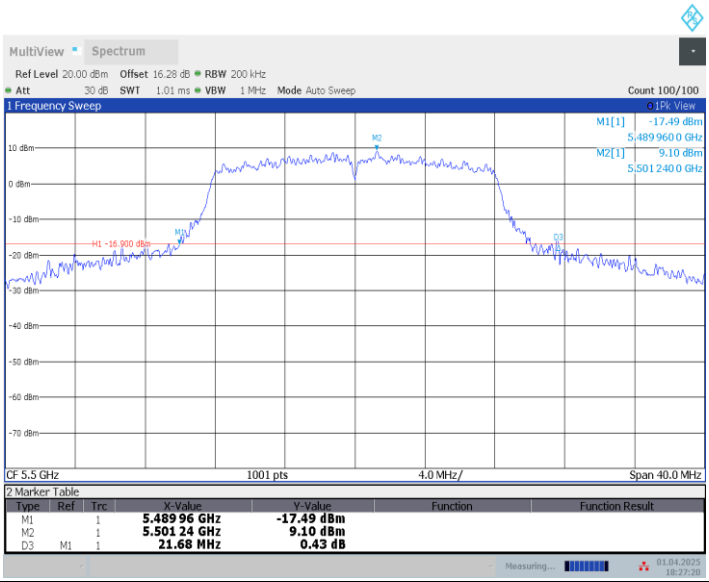

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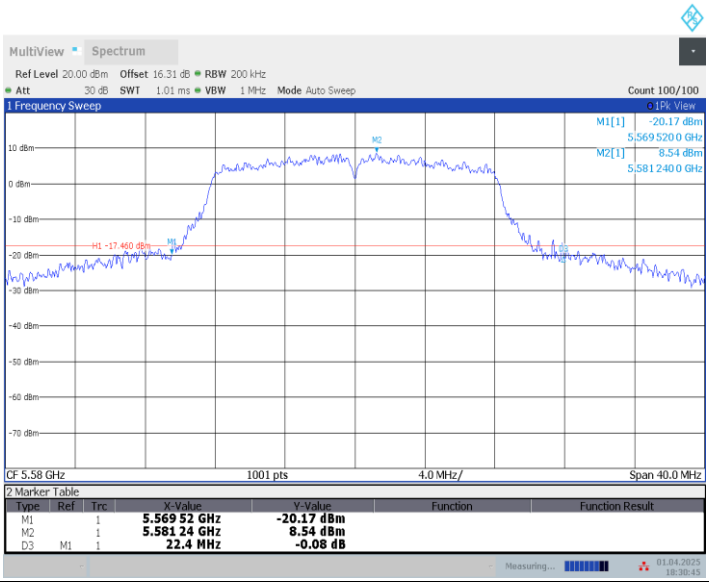

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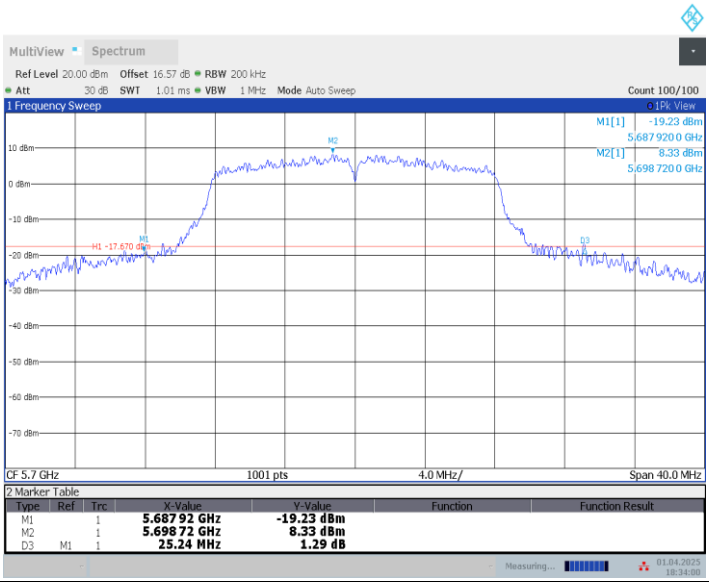

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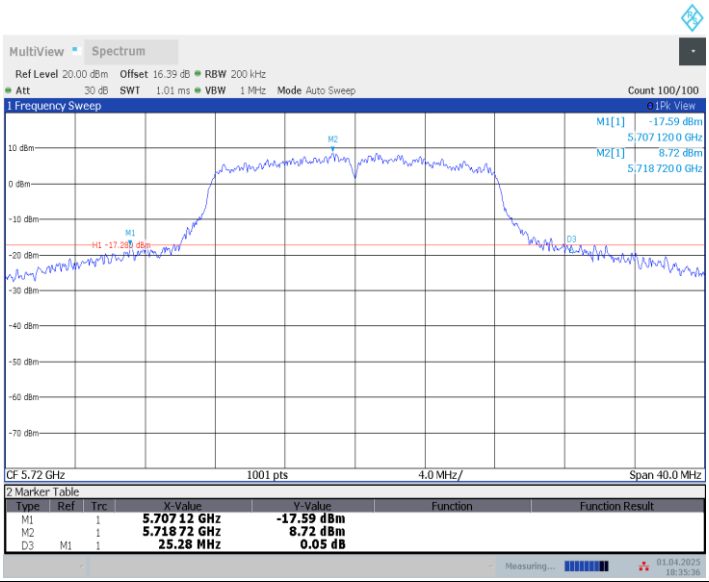

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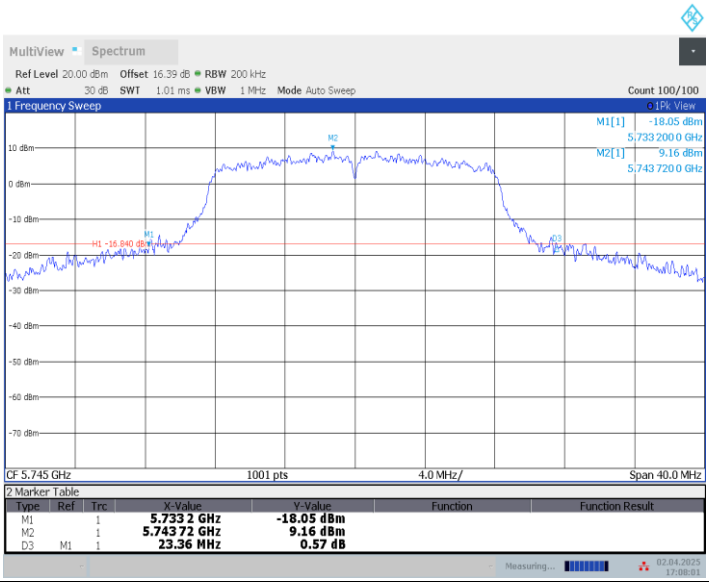

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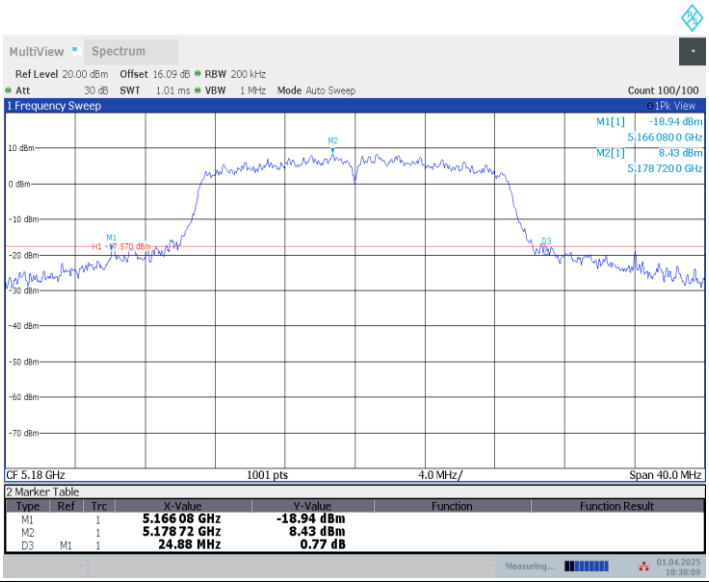

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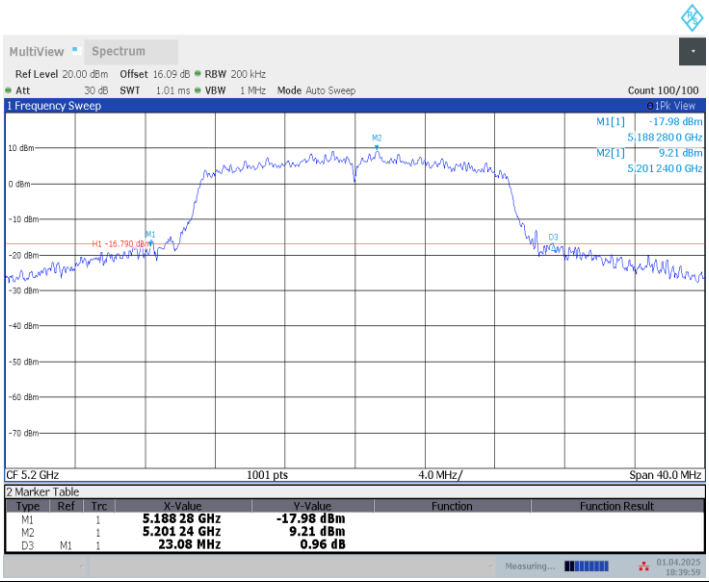

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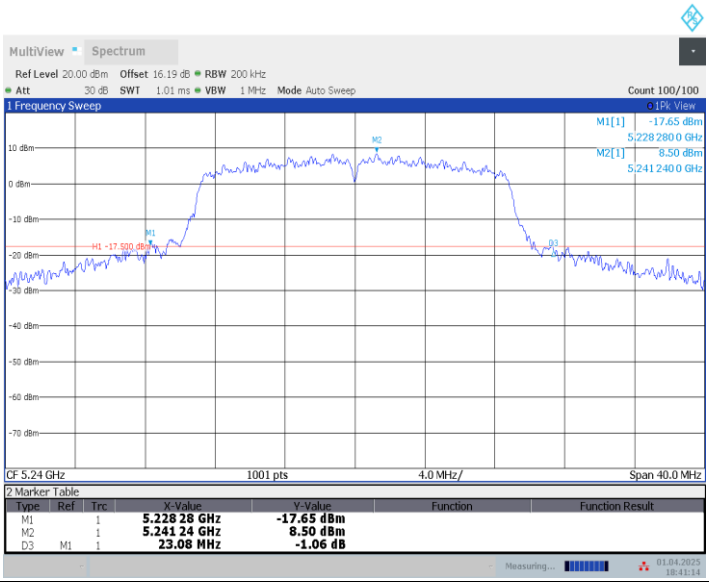

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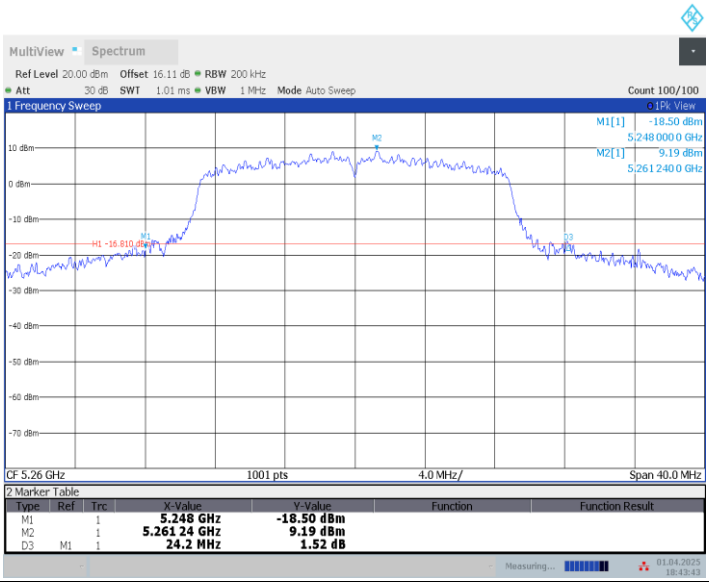

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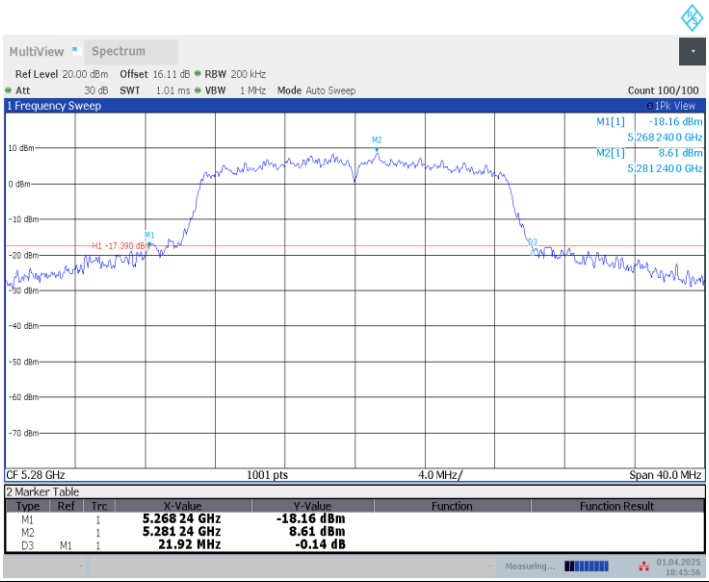

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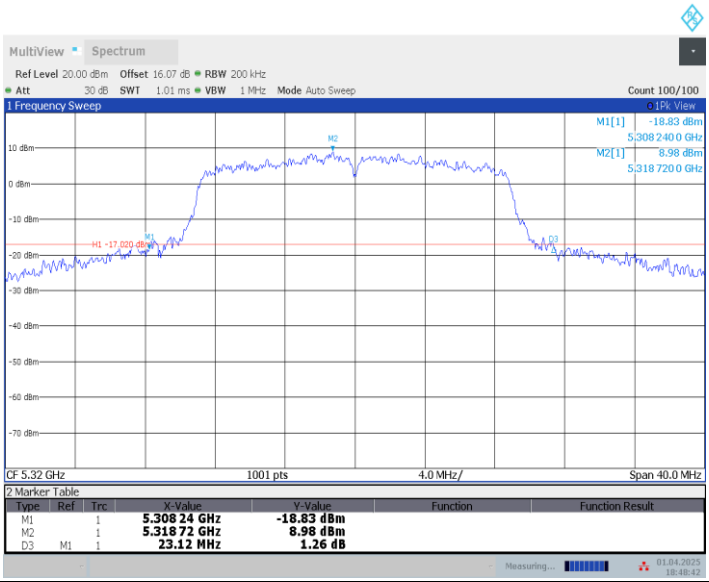

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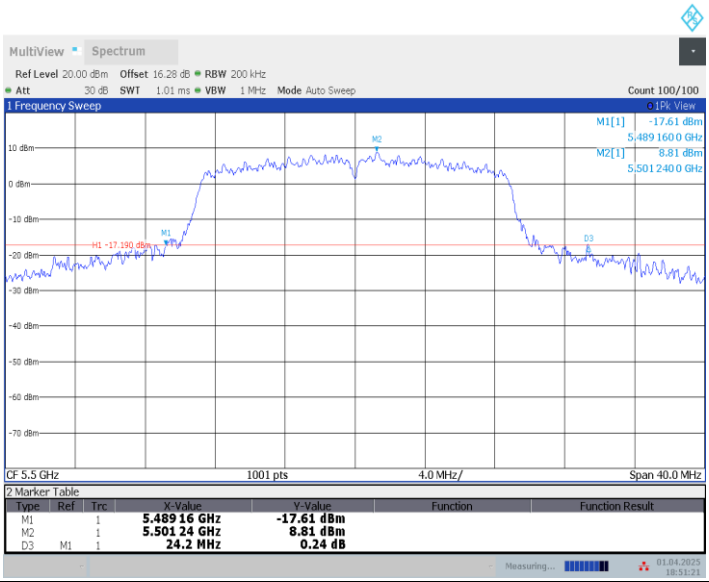

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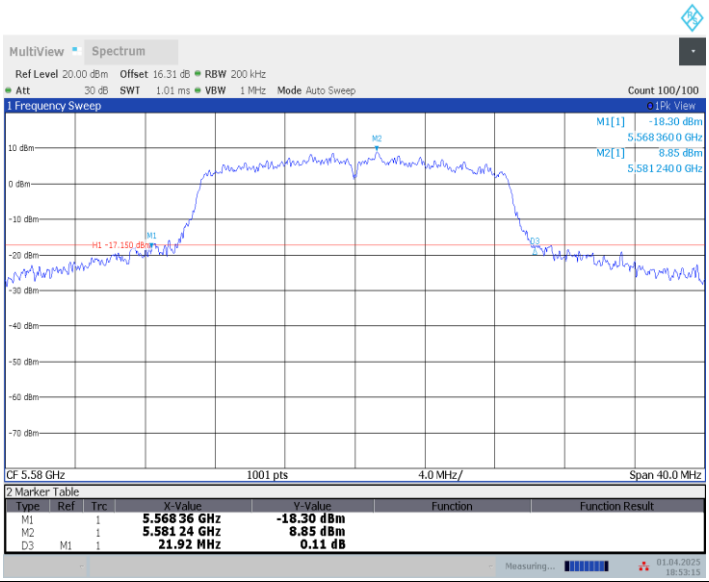

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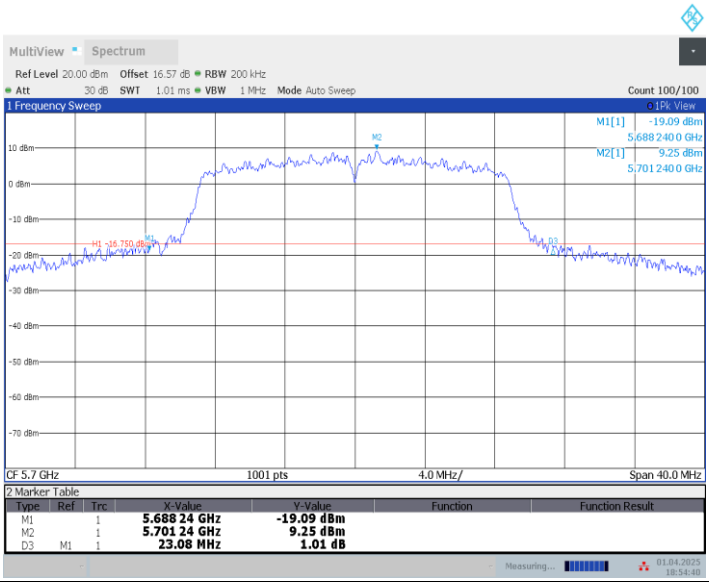

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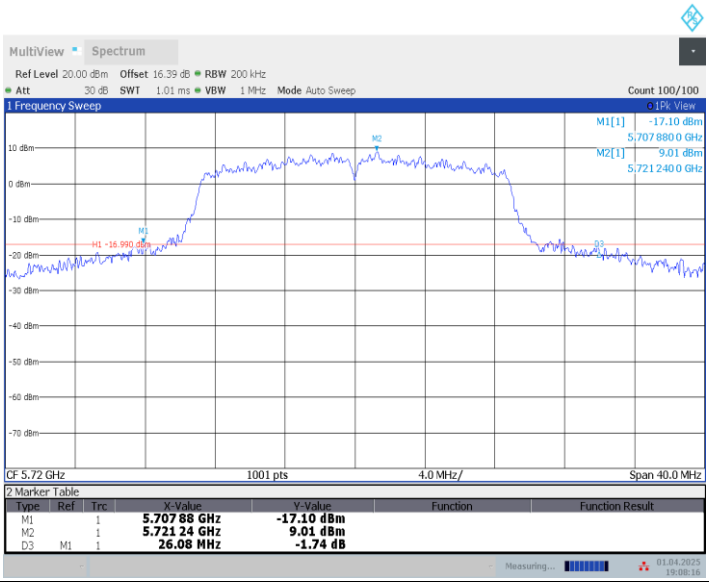

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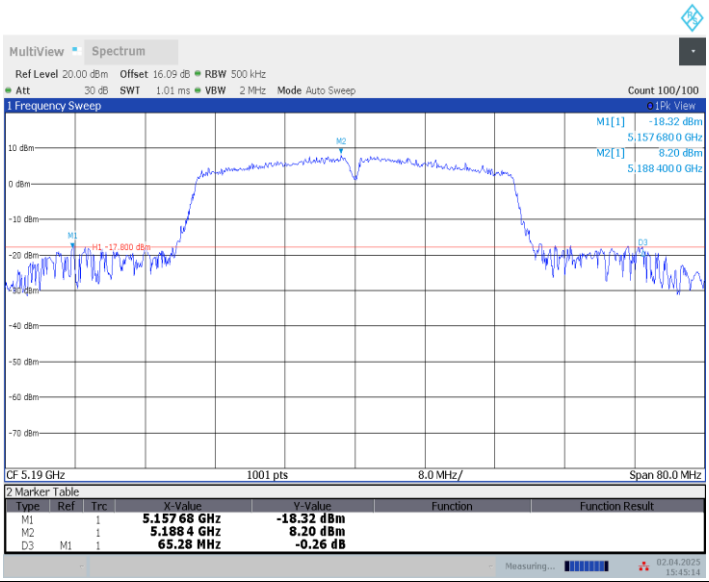

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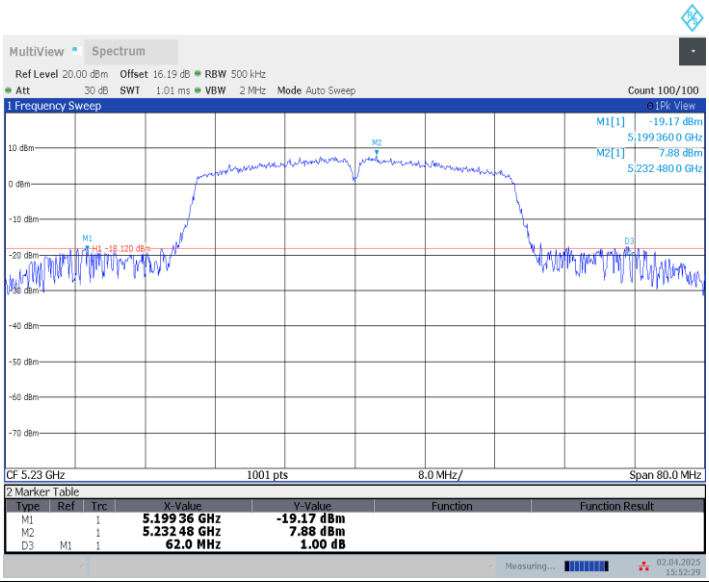

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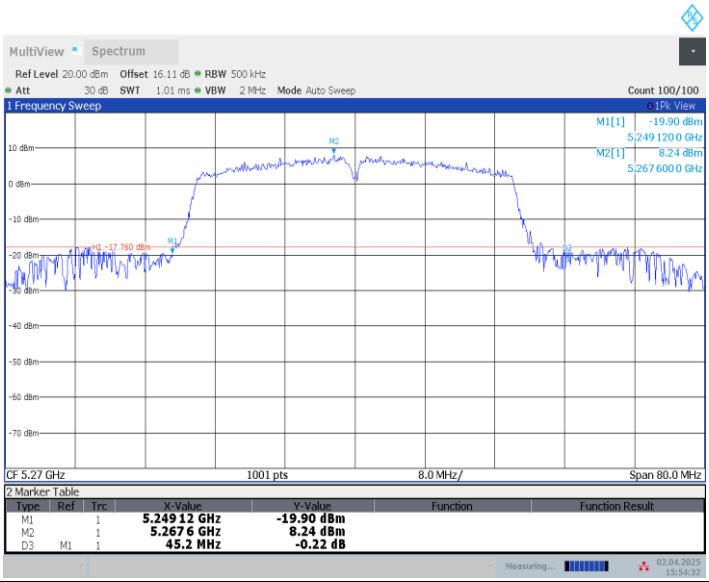

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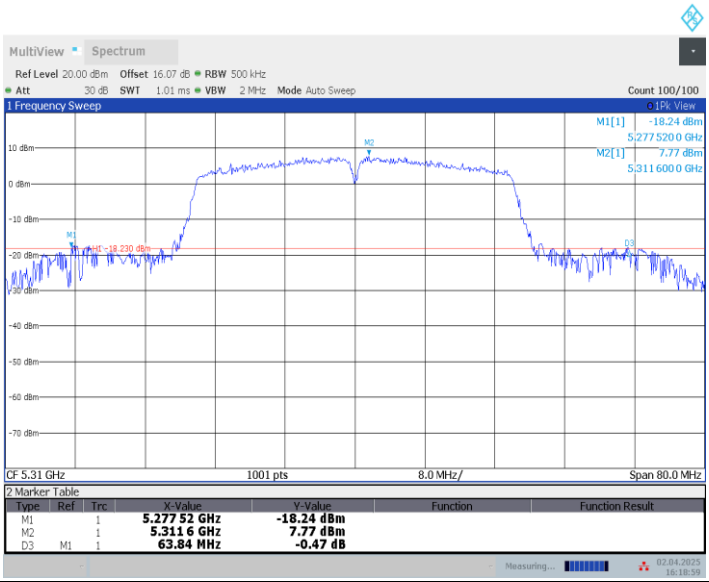

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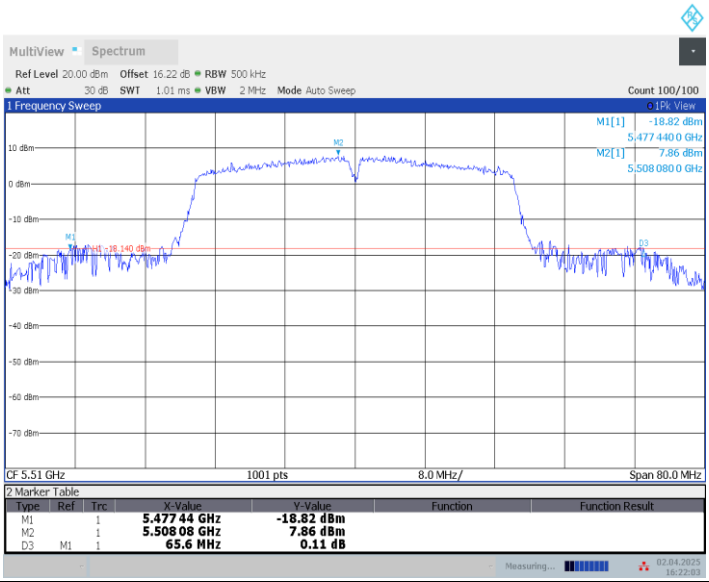

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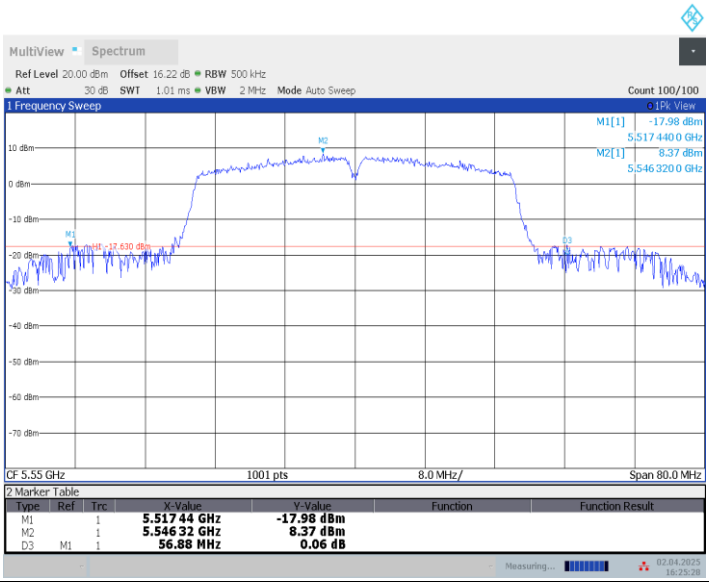

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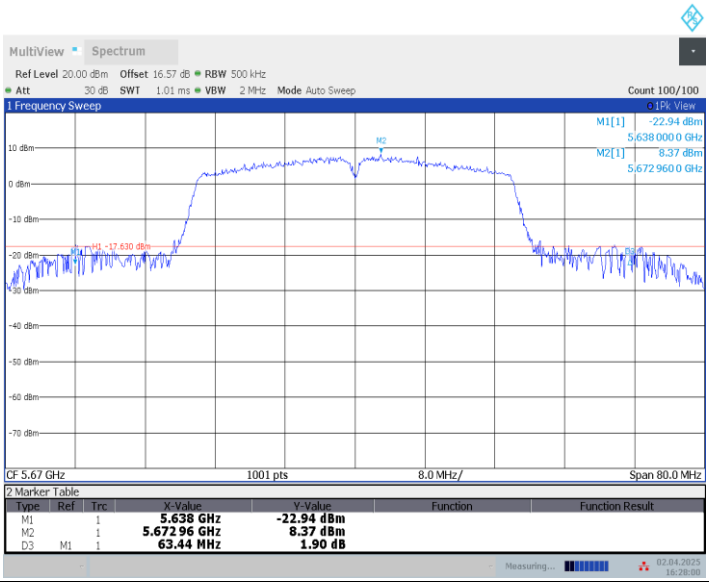

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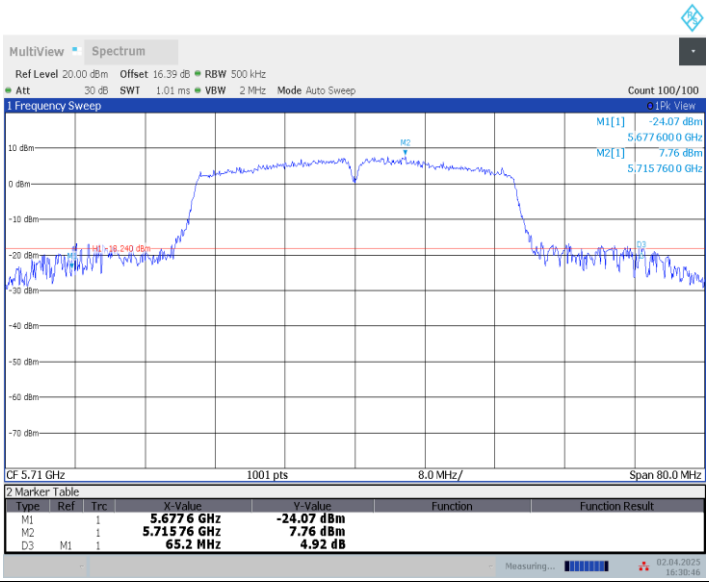

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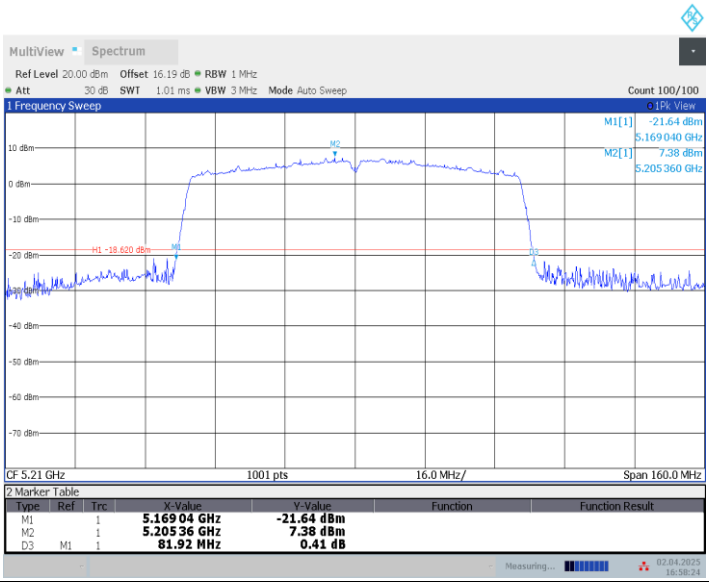

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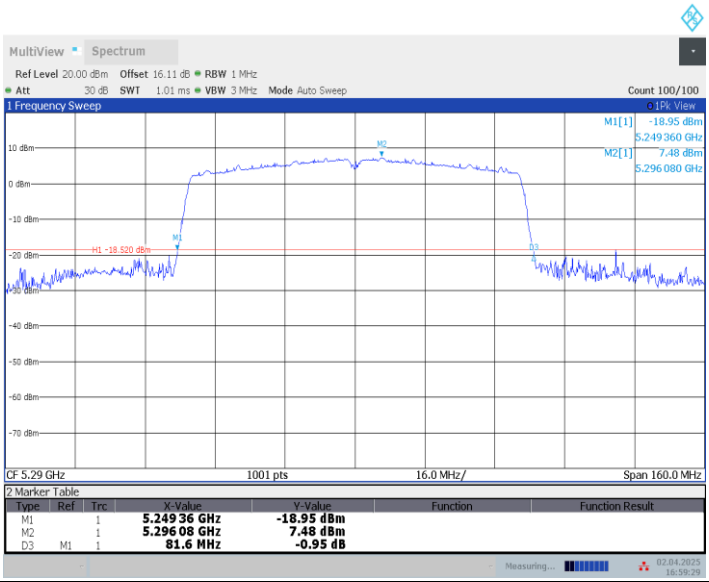

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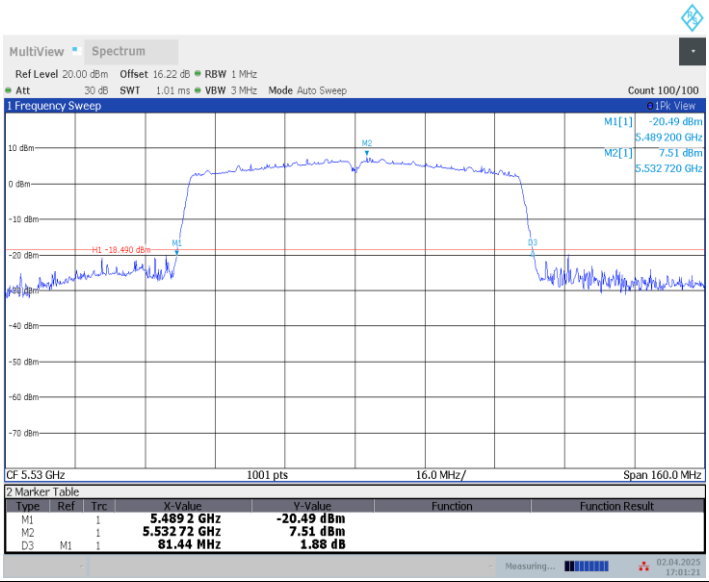

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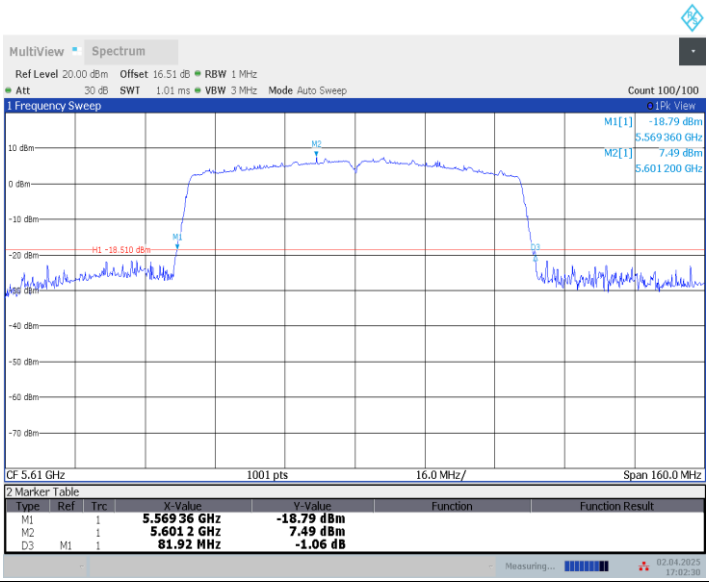

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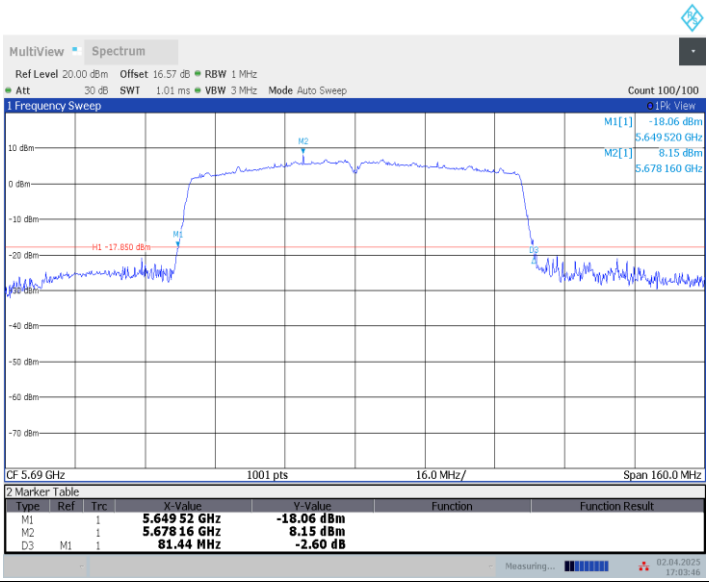


Conclusion: PASS

A.5. Radiated Unwanted Emission

A.5.1 Limits

Unwanted Emissions in the unrestricted bands shall not exceed the limits that shown in 15.407:

Standard	Limit
FCC 47 CFR Part 15.407	(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

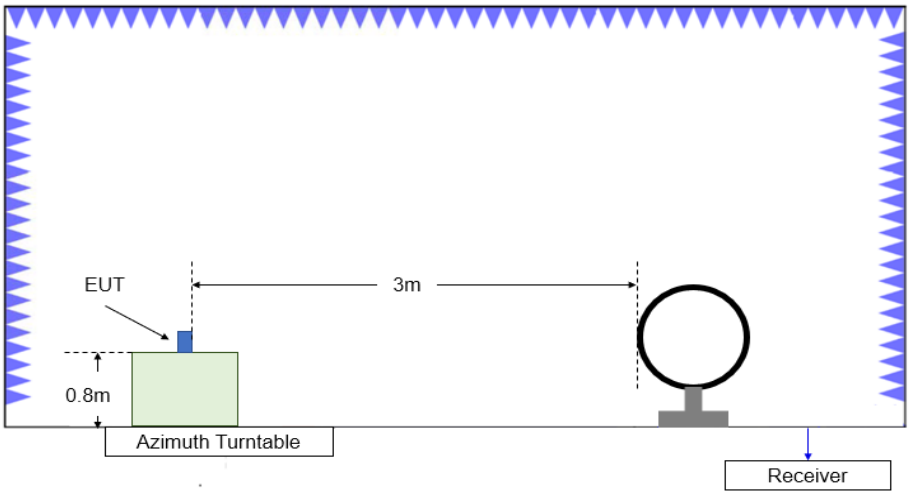
In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

Frequency (MHz)	Field strength(μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

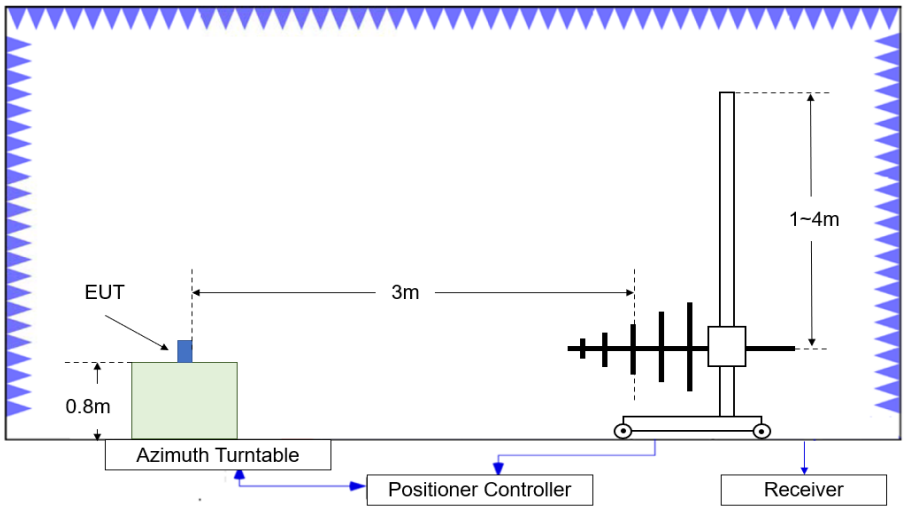
Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor (as defined in KDB 789033 II.G.2.d).

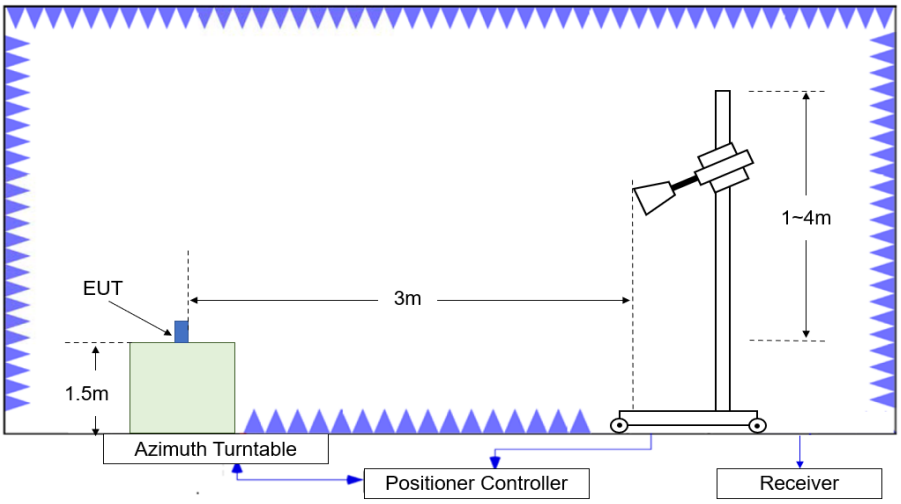
A.5.2 Test setup



Test Site Diagram (9kHz-30MHz)



Test Site Diagram (30MHz-1GHz)



Test Site Diagram (1GHz-40GHz)

A.5.3 Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10and KDB 789033 D02 v02r01.

Test setting

Frequency of emission (MHz)	RBW/VBW
30-1000	100kHz/300kHz
1000-4000	1MHz/3MHz
4000-18000	1MHz/3MHz
18000-26500	1MHz/3MHz
26500-40000	1MHz/3MHz

A.5.4 Calculation

1. The measurement results reported below is calculated by:

Measurement Results (dBμV/m) = $P_{measurement}$ (dBμV) + Cable Loss(dB) + Antenna Factor (dB/m)

Where: $P_{measurement}$ is the field strength recorded from the instrument

2. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

E=EIRP- 20log (*D*) +104.77

Where:

E is the field strength in dBμV/m

D is the measurement distance in meters

EIRP is the equivalent isotropically radiated power in dBm

Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept.
5. EUT in each of three orthogonal axis emissions had been tested out only the worst case (axis data) recorded in the report.
6. Measurement frequencies were performed from 9 kHz to the 10^{th} harmonic of highest fundamental frequency or 40GHz, whichever is lower.
7. No spurious emissions were detected within 20dBof the limit below 30MHz. OFS and semi-chamber comparison testing had been performed and the result came out very similar. (KDB 414788)

Measurement Results:

Average Results:

802.11a

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17919.700	45.65	-25.55	42.30	28.90	54.00	8.35	V
17920.250	45.24	-25.55	42.30	28.49	54.00	8.76	V
14493.200	39.34	-28.78	40.00	28.12	54.00	14.66	H
14482.750	39.10	-28.78	40.00	27.88	54.00	14.90	H
5149.600	48.52	-27.27	32.70	43.09	54.00	5.48	H
5149.860	47.93	-27.27	32.70	42.50	54.00	6.07	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17928.500	45.35	-25.55	42.30	28.60	54.00	8.65	V
17922.450	45.32	-25.55	42.30	28.57	54.00	8.68	V
14480.550	39.42	-28.78	40.00	28.20	54.00	14.58	H
14494.850	39.19	-28.78	40.00	27.97	54.00	14.81	H
5350.048	49.23	-27.08	33.50	42.81	54.00	4.77	H
5350.064	48.19	-27.08	33.50	41.77	54.00	5.81	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17911.450	45.38	-25.55	42.30	28.63	54.00	8.62	V
17958.200	45.33	-25.55	42.30	28.58	54.00	8.67	H
13287.050	39.15	-29.75	40.30	28.60	54.00	14.85	V
14495.400	39.13	-28.78	40.00	27.91	54.00	14.87	V
5459.935	43.05	-27.06	33.70	36.41	54.00	10.95	H
5434.645	42.97	-27.18	33.60	36.55	54.00	11.03	H

802.11n-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17914.200	45.27	-25.55	42.30	28.52	54.00	8.73	V
17911.450	45.25	-25.55	42.30	28.50	54.00	8.75	H
14491.550	39.16	-28.78	40.00	27.94	54.00	14.84	H
13295.300	39.07	-29.75	40.30	28.52	54.00	14.93	V
5149.620	48.13	-27.27	32.70	42.70	54.00	5.87	H
5148.580	48.09	-27.27	32.70	42.66	54.00	5.91	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17916.950	45.18	-25.55	42.30	28.43	54.00	8.82	V
17918.600	45.15	-25.55	42.30	28.40	54.00	8.85	V
14497.600	39.20	-28.78	40.00	27.98	54.00	14.80	V
14499.800	38.96	-28.78	40.00	27.74	54.00	15.04	V
5350.288	50.56	-27.08	33.50	44.14	54.00	3.44	H
5350.448	50.26	-27.08	33.50	43.84	54.00	3.74	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17919.700	45.21	-25.55	42.30	28.46	54.00	8.79	H
17918.050	45.07	-25.55	42.30	28.32	54.00	8.93	H
14487.150	39.18	-28.78	40.00	27.96	54.00	14.82	V
13282.650	39.05	-29.75	40.30	28.50	54.00	14.95	H
5459.575	43.63	-27.06	33.70	36.99	54.00	10.37	H
5450.710	42.89	-27.06	33.70	36.25	54.00	11.11	H

802.11n-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17927.950	45.21	-25.55	42.30	28.46	54.00	8.79	H
17903.750	45.18	-25.55	42.30	28.43	54.00	8.82	H
13303.550	39.02	-29.75	40.30	28.47	54.00	14.98	H
13262.850	38.98	-29.75	40.20	28.53	54.00	15.02	H
5148.260	51.80	-27.34	32.70	46.44	54.00	2.20	H
5148.840	51.72	-27.27	32.70	46.29	54.00	2.28	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17916.400	45.21	-25.55	42.30	28.46	54.00	8.79	V
17920.800	45.15	-25.55	42.30	28.40	54.00	8.85	H
14493.750	38.95	-28.78	40.00	27.73	54.00	15.05	V
14476.700	38.92	-28.78	40.00	27.70	54.00	15.08	H
5350.592	51.70	-27.08	33.50	45.28	54.00	2.30	H
5350.736	50.64	-27.08	33.50	44.22	54.00	3.36	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.250	45.26	-25.55	42.30	28.51	54.00	8.74	H
17939.500	45.15	-25.55	42.30	28.40	54.00	8.85	H
13282.100	39.01	-29.75	40.30	28.46	54.00	14.99	V
13262.850	38.88	-29.75	40.20	28.43	54.00	15.12	V
5456.170	43.33	-27.06	33.70	36.69	54.00	10.67	H
5458.810	42.94	-27.06	33.70	36.30	54.00	11.06	H

802.11ac-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17926.850	45.56	-25.55	42.30	28.81	54.00	8.44	H
17929.600	45.37	-25.55	42.30	28.62	54.00	8.63	V
13268.900	39.13	-29.75	40.30	28.58	54.00	14.87	V
14499.250	39.06	-28.78	40.00	27.84	54.00	14.94	V
5149.880	46.89	-27.27	32.70	41.46	54.00	7.11	H
5149.280	46.78	-27.27	32.70	41.35	54.00	7.22	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17928.500	45.49	-25.55	42.30	28.74	54.00	8.51	H
17919.700	45.15	-25.55	42.30	28.40	54.00	8.85	H
13277.700	39.28	-29.75	40.30	28.73	54.00	14.72	H
14494.300	38.96	-28.78	40.00	27.74	54.00	15.04	V
5352.368	46.29	-27.08	33.50	39.87	54.00	7.71	H
5351.232	45.87	-27.08	33.50	39.45	54.00	8.13	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17918.600	45.15	-25.55	42.30	28.40	54.00	8.85	H
17932.350	45.10	-25.55	42.30	28.35	54.00	8.90	H
14483.850	39.30	-28.78	40.00	28.08	54.00	14.70	V
14490.450	39.18	-28.78	40.00	27.96	54.00	14.82	H
5455.525	43.10	-27.06	33.70	36.46	54.00	10.90	H
5448.280	42.98	-27.06	33.70	36.34	54.00	11.02	H

Channel 140

802.11ac-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17914.200	45.12	-25.55	42.30	28.37	54.00	8.88	H
17918.050	45.02	-25.55	42.30	28.27	54.00	8.98	H
14497.050	39.20	-28.78	40.00	27.98	54.00	14.80	H
14495.950	39.15	-28.78	40.00	27.93	54.00	14.85	V
5149.820	48.69	-27.27	32.70	43.26	54.00	5.31	H
5147.980	48.14	-27.34	32.70	42.78	54.00	5.86	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17921.900	45.63	-25.55	42.30	28.88	54.00	8.37	V
17945.550	45.49	-25.55	42.30	28.74	54.00	8.51	V
13267.800	39.78	-29.75	40.30	29.23	54.00	14.22	H
13284.300	39.49	-29.75	40.30	28.94	54.00	14.51	V
5350.160	48.49	-27.08	33.50	42.07	54.00	5.51	H
5352.992	48.45	-27.08	33.50	42.03	54.00	5.55	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17936.750	45.36	-25.55	42.30	28.61	54.00	8.64	H
17909.800	45.28	-25.55	42.30	28.53	54.00	8.72	V
14479.450	39.47	-28.78	40.00	28.25	54.00	14.53	V
13306.300	39.32	-29.75	40.30	28.77	54.00	14.68	H
5457.205	43.02	-27.06	33.70	36.38	54.00	10.98	H
5436.805	42.85	-27.18	33.60	36.43	54.00	11.15	H

802.11ac-HT80

Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17935.100	45.31	-25.55	42.30	28.56	54.00	8.69	V
17916.400	45.25	-25.55	42.30	28.50	54.00	8.75	H
14491.550	39.39	-28.78	40.00	28.17	54.00	14.61	H
13344.250	39.07	-30.08	40.30	28.85	54.00	14.93	V
5149.220	47.88	-27.27	32.70	42.45	54.00	6.12	H
5148.880	47.81	-27.27	32.70	42.38	54.00	6.19	H

Channel 58

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17919.150	45.38	-25.55	42.30	28.63	54.00	8.62	H
17929.050	45.21	-25.55	42.30	28.46	54.00	8.79	V
14494.850	39.35	-28.78	40.00	28.13	54.00	14.65	V
14478.350	39.05	-28.78	40.00	27.83	54.00	14.95	H
5350.704	48.45	-27.08	33.50	42.03	54.00	5.55	H
5350.176	47.94	-27.08	33.50	41.52	54.00	6.06	H

Channel 106

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17920.250	45.38	-25.55	42.30	28.63	54.00	8.62	H
17922.450	45.24	-25.55	42.30	28.49	54.00	8.76	V
14487.700	39.17	-28.78	40.00	27.95	54.00	14.83	H
14474.500	39.15	-28.78	40.00	27.93	54.00	14.85	H
5458.285	44.19	-27.06	33.70	37.55	54.00	9.81	H
5452.840	43.76	-27.06	33.70	37.12	54.00	10.24	H

PEAK Results:

802.11a

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17896.050	57.11	-25.55	42.30	40.36	74.00	16.89	H
17911.450	55.78	-25.55	42.30	39.03	74.00	18.22	V
13763.350	52.14	-29.41	40.90	40.65	68.20	16.06	H
13717.700	51.70	-29.41	40.70	40.41	68.20	16.50	H
5149.940	66.26	-27.27	32.70	60.83	74.00	7.74	H
5148.960	66.15	-27.27	32.70	60.72	74.00	7.85	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17920.250	56.82	-25.55	42.30	40.07	74.00	17.18	V
17947.200	55.95	-25.55	42.30	39.20	74.00	18.05	H
14131.300	51.79	-28.86	40.50	40.15	68.20	16.41	H
13711.650	51.78	-29.88	40.70	40.96	68.20	16.42	H
5353.104	69.76	-27.08	33.50	63.34	74.00	4.24	H
5354.944	66.83	-27.08	33.50	60.41	74.00	7.17	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17915.850	56.42	-25.55	42.30	39.67	74.00	17.58	H
17927.400	56.16	-25.55	42.30	39.41	74.00	17.84	V
13651.700	52.01	-29.88	40.60	41.29	68.20	16.19	V
14191.800	51.56	-28.86	40.40	40.02	68.20	16.64	H
5418.730	53.84	-27.18	33.60	47.42	74.00	20.16	H
5468.260	58.57	-27.06	33.70	51.93	68.20	9.63	H

802.11n-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17915.300	56.62	-25.55	42.30	39.87	74.00	17.38	V
17917.500	56.61	-25.55	42.30	39.86	74.00	17.39	V
13673.700	52.54	-29.88	40.70	41.72	68.20	15.66	H
14109.850	51.83	-28.86	40.50	40.19	68.20	16.37	H
5148.480	66.98	-27.34	32.70	61.62	74.00	7.02	H
5149.360	66.46	-27.27	32.70	61.03	74.00	7.54	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17920.250	56.36	-25.55	42.30	39.61	74.00	17.64	H
17943.900	56.08	-25.55	42.30	39.33	74.00	17.92	V
13577.450	51.92	-29.88	40.60	41.20	68.20	16.28	H
13654.450	51.89	-29.88	40.60	41.17	68.20	16.31	H
5351.456	70.33	-27.08	33.50	63.91	74.00	3.67	H
5350.112	69.19	-27.08	33.50	62.77	74.00	4.81	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17896.050	56.41	-25.55	42.30	39.66	74.00	17.59	H
17937.850	56.28	-25.55	42.30	39.53	74.00	17.72	H
13713.850	51.60	-29.41	40.70	40.31	68.20	16.60	H
13732.550	51.59	-29.41	40.70	40.30	68.20	16.61	V
5406.175	54.26	-27.18	33.60	47.84	74.00	19.74	H
5468.485	57.00	-27.06	33.70	50.36	68.20	11.20	H

802.11n-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17968.650	55.86	-25.55	42.30	39.11	74.00	18.14	V
17934.000	55.69	-25.55	42.30	38.94	74.00	18.31	H
14142.300	51.85	-28.86	40.50	40.21	68.20	16.35	V
13686.350	51.82	-29.88	40.70	41.00	68.20	16.38	H
5146.140	70.55	-27.34	32.70	65.19	74.00	3.45	H
5148.160	70.14	-27.34	32.70	64.78	74.00	3.86	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17954.900	56.43	-25.55	42.30	39.68	74.00	17.57	H
17920.800	56.30	-25.55	42.30	39.55	74.00	17.70	H
14113.150	51.87	-28.86	40.50	40.23	68.20	16.33	V
14157.700	51.81	-28.86	40.50	40.17	68.20	16.39	H
5350.480	71.71	-27.08	33.50	65.29	74.00	2.29	H
5355.696	70.63	-27.08	33.50	64.21	74.00	3.37	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17885.600	56.18	-25.55	42.30	39.43	74.00	17.82	V
17932.350	56.10	-25.55	42.30	39.35	74.00	17.90	V
13782.600	51.87	-29.41	40.90	40.38	68.20	16.33	V
14215.450	51.87	-28.86	40.40	40.33	68.20	16.33	V
5459.125	55.14	-27.06	33.70	48.50	74.00	18.86	H
5469.745	63.02	-27.06	33.70	56.38	68.20	5.18	H

802.11ac-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17914.200	56.43	-25.55	42.30	39.68	74.00	17.57	V
17920.250	56.27	-25.55	42.30	39.52	74.00	17.73	V
13681.950	52.00	-29.88	40.70	41.18	68.20	16.20	H
13637.950	51.87	-29.88	40.60	41.15	68.20	16.33	V
5148.880	66.66	-27.27	32.70	61.23	74.00	7.34	H
5149.740	66.36	-27.27	32.70	60.93	74.00	7.64	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17919.150	56.39	-25.55	42.30	39.64	74.00	17.61	V
17953.800	56.08	-25.55	42.30	39.33	74.00	17.92	H
14131.850	52.04	-28.86	40.50	40.40	68.20	16.16	H
14112.600	51.88	-28.86	40.50	40.24	68.20	16.32	H
5350.272	66.75	-27.08	33.50	60.33	74.00	7.25	H
5352.368	65.85	-27.08	33.50	59.43	74.00	8.15	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17921.350	56.57	-25.55	42.30	39.82	74.00	17.43	H
17876.250	56.41	-25.55	42.30	39.66	74.00	17.59	V
14179.150	52.06	-28.86	40.40	40.52	68.20	16.14	V
13786.450	51.56	-29.41	40.90	40.07	68.20	16.64	H
5402.050	53.44	-27.18	33.60	47.02	74.00	20.56	H
5469.955	58.59	-27.06	33.70	51.95	68.20	9.61	H

802.11ac-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17879.000	56.57	-25.55	42.30	39.82	74.00	17.43	V
17931.800	56.19	-25.55	42.30	39.44	74.00	17.81	V
13761.700	51.63	-29.41	40.70	40.34	68.20	16.57	V
13718.800	51.53	-29.41	40.70	40.24	68.20	16.67	V
5148.740	69.61	-27.27	32.70	64.18	74.00	4.39	H
5148.580	67.17	-27.27	32.70	61.74	74.00	6.83	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17926.850	56.48	-25.55	42.30	39.73	74.00	17.52	H
17917.500	56.07	-25.55	42.30	39.32	74.00	17.93	V
14178.050	52.35	-28.86	40.40	40.81	68.20	15.85	V
14139.000	52.11	-28.86	40.50	40.47	68.20	16.09	H
5355.440	69.10	-27.08	33.50	62.68	74.00	4.90	H
5350.000	68.26	-27.08	33.50	61.84	74.00	5.74	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17929.050	57.05	-25.55	42.30	40.30	74.00	16.95	H
17937.850	56.45	-25.55	42.30	39.70	74.00	17.55	H
14137.900	52.49	-28.86	40.50	40.85	68.20	15.71	H
14169.800	52.11	-28.86	40.40	40.57	68.20	16.09	V
5458.675	54.71	-27.06	33.70	48.07	74.00	19.29	H
5467.300	55.87	-27.06	33.70	49.23	68.20	12.33	H

802.11ac-HT80

Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17911.450	56.51	-25.55	42.30	39.76	74.00	17.49	V
17908.700	56.31	-25.55	42.30	39.56	74.00	17.69	V
13727.050	51.93	-29.41	40.70	40.64	68.20	16.27	V
14152.200	51.67	-28.86	40.50	40.03	68.20	16.53	H
5140.420	66.12	-27.34	32.70	60.76	74.00	7.88	H
5146.820	65.77	-27.34	32.70	60.41	74.00	8.23	H

Channel 58

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17926.850	56.44	-25.55	42.30	39.69	74.00	17.56	V
17941.700	56.19	-25.55	42.30	39.44	74.00	17.81	H
14188.500	52.31	-28.86	40.40	40.77	68.20	15.89	H
13717.700	51.85	-29.41	40.70	40.56	68.20	16.35	H
5350.544	68.31	-27.08	33.50	61.89	74.00	5.69	H
5350.880	67.26	-27.08	33.50	60.84	74.00	6.74	H

Channel 106

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17932.350	55.76	-25.55	42.30	39.01	74.00	18.24	H
17901.550	55.66	-25.55	42.30	38.91	74.00	18.34	V
14139.000	51.91	-28.86	40.50	40.27	68.20	16.29	H
13581.850	51.75	-29.88	40.60	41.03	68.20	16.45	V
5457.160	54.79	-27.06	33.70	48.15	74.00	19.21	H
5469.130	56.58	-27.06	33.70	49.94	68.20	11.62	H

Conclusion: PASS

Band edge compliance

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.1	P
	5320 MHz	Fig.2	P
	5500 MHz	Fig.3	P
	5700 MHz	Fig.4	P
802.11n HT20	5180 MHz	Fig.5	P
	5320 MHz	Fig.6	P
	5500 MHz	Fig.7	P
	5700 MHz	Fig.8	P
802.11n HT40	5190 MHz	Fig.9	P
	5310 MHz	Fig.10	P
	5510 MHz	Fig.11	P
	5670 MHz	Fig.12	P
802.11ac HT20	5180 MHz	Fig.13	P
	5320 MHz	Fig.14	P
	5500 MHz	Fig.15	P
	5700 MHz	Fig.16	P
802.11ac HT40	5190 MHz	Fig.17	P
	5310 MHz	Fig.18	P
	5510 MHz	Fig.19	P
	5670 MHz	Fig.20	P
802.11ac HT80	5210MHz	Fig.21	P
	5290MHz	Fig.22	P
	5530MHz	Fig.23	P
	5610MHz	Fig.24	P

Conclusion: PASS

Test graphs as below:

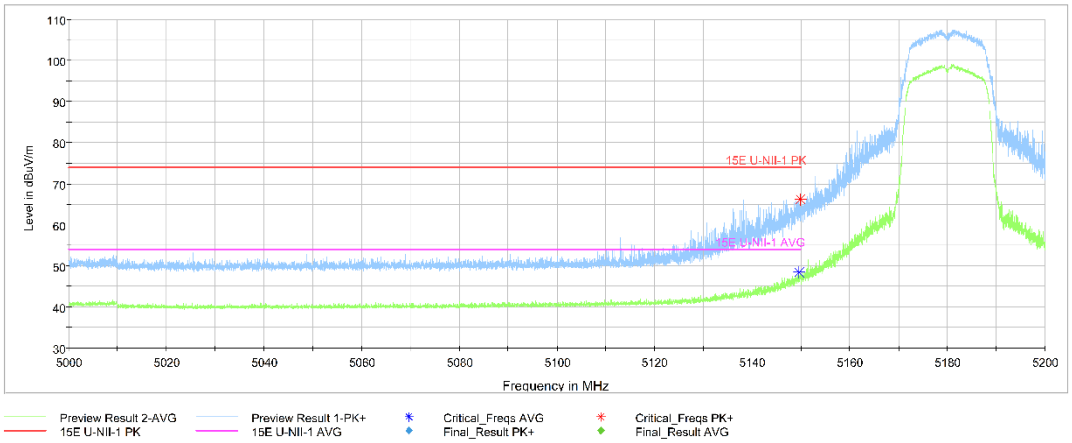


Fig. 1 Band Edges (802.11a,Ch36, 5180MHz)

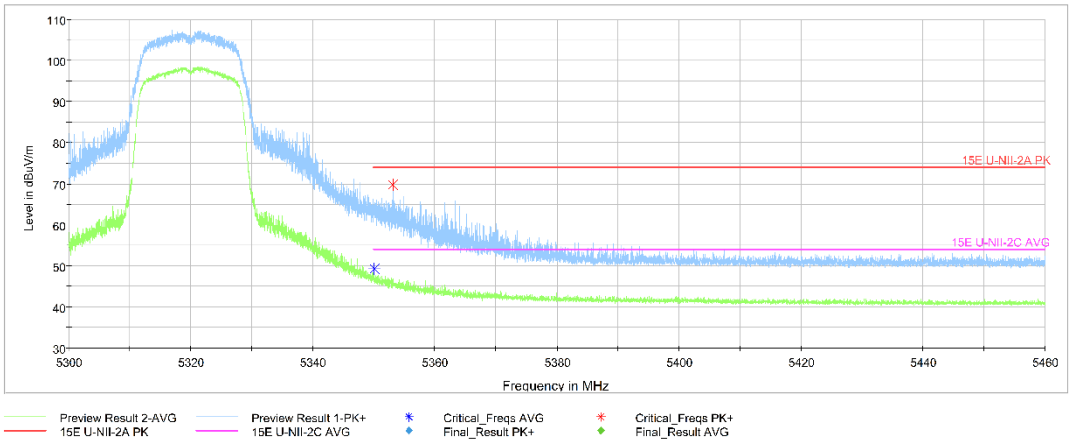


Fig. 2 Band Edges (802.11a, Ch64, 5320MHz)

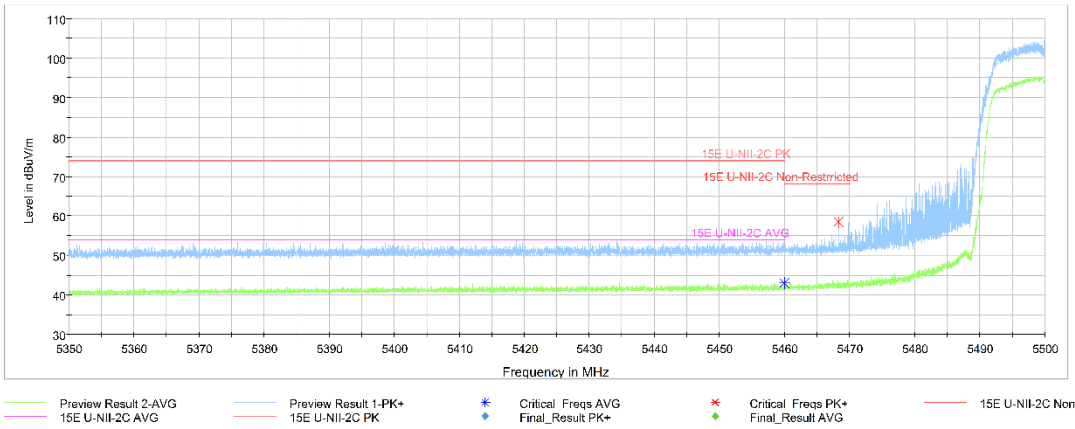


Fig. 3 Band Edges (802.11a, Ch100, 5500MHz)

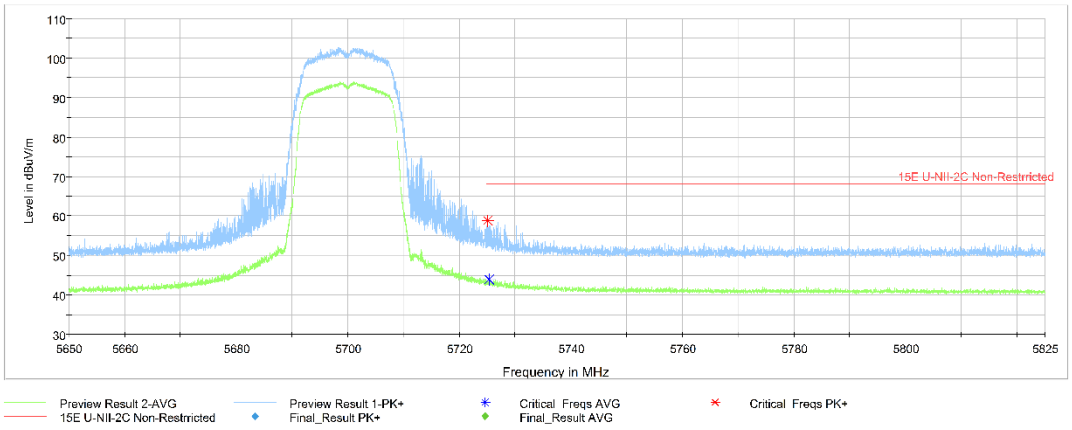


Fig. 4 Band Edges (802.11a, Ch140, 5700MHz)

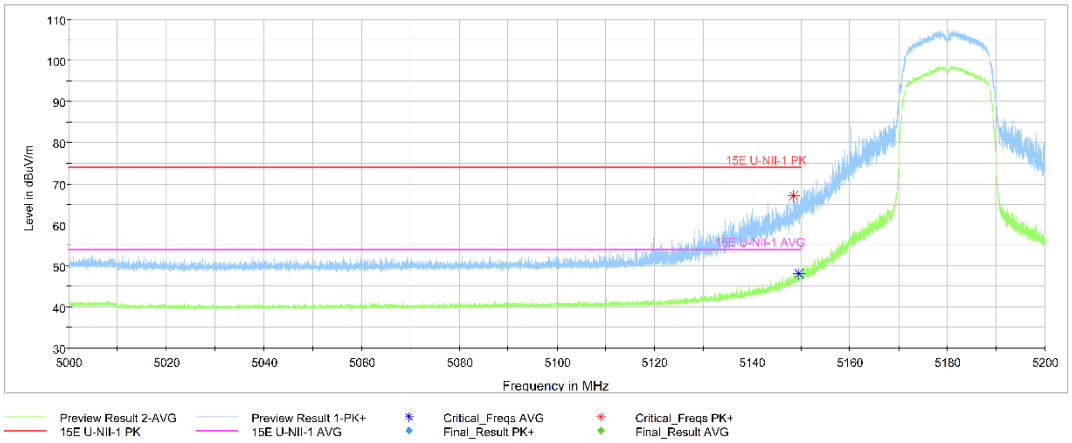


Fig. 5 Band Edges (802.11n-HT20, Ch36, 5180MHz)

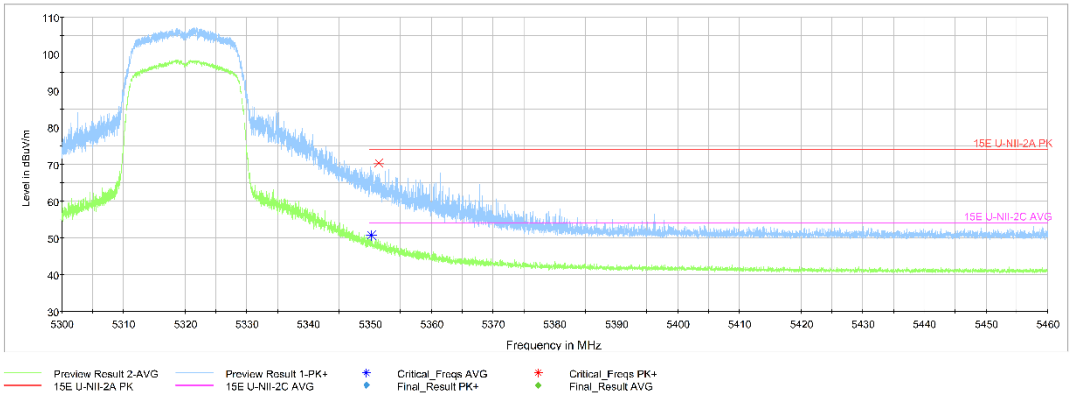


Fig. 6 Band Edges (802.11n-HT20 , Ch64, 5320MHz)

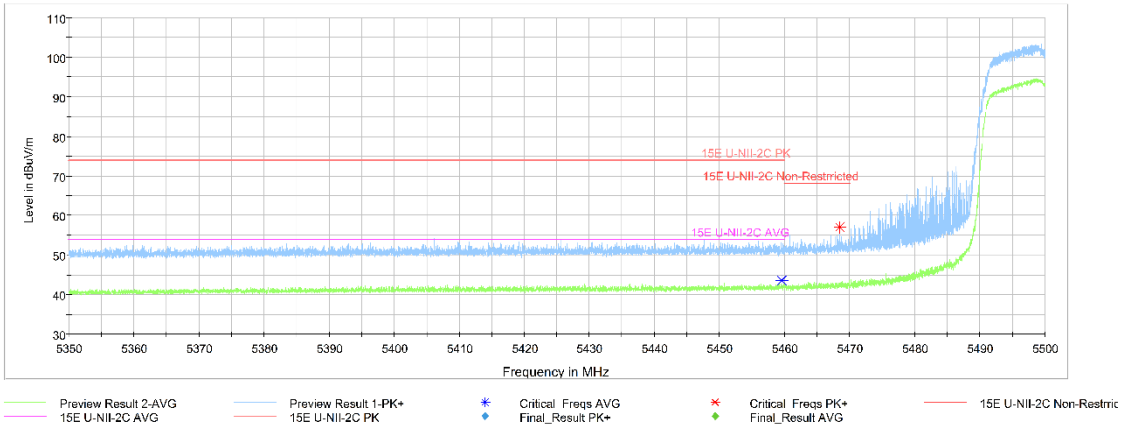


Fig. 7 Band Edges (802.11n-HT20 , Ch100, 5500MHz)

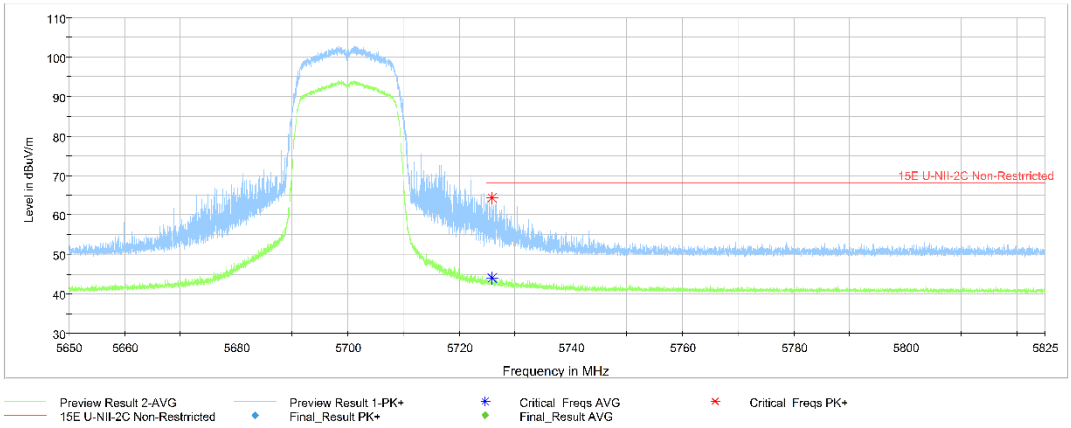


Fig. 8 Band Edges (802.11n-HT20 , Ch140, 5700MHz)

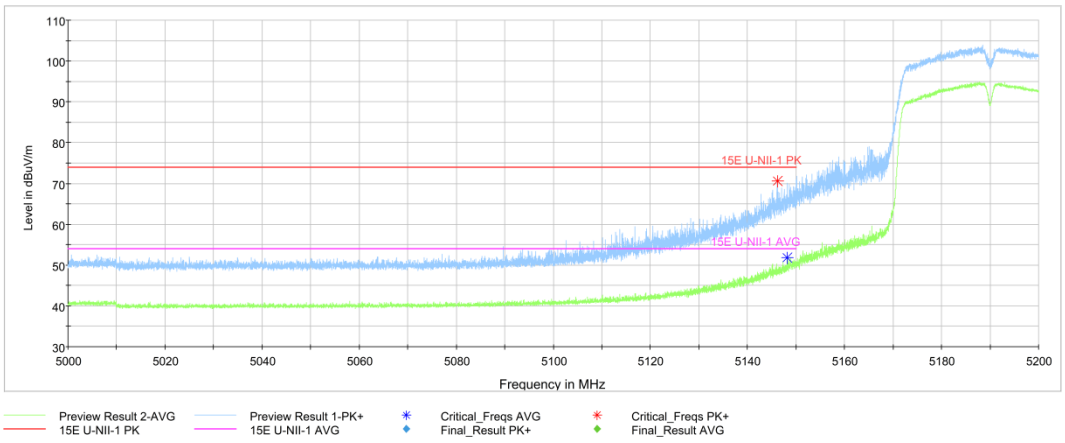


Fig. 9 Band Edges (802.11n-HT40 , Ch38, 5190MHz)

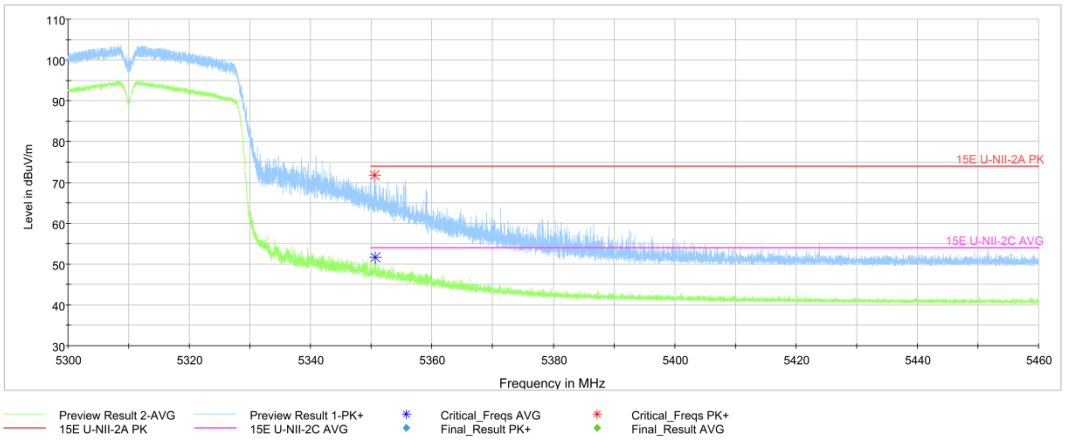


Fig. 10 Band Edges (802.11n-HT40 , Ch62, 5310MHz)

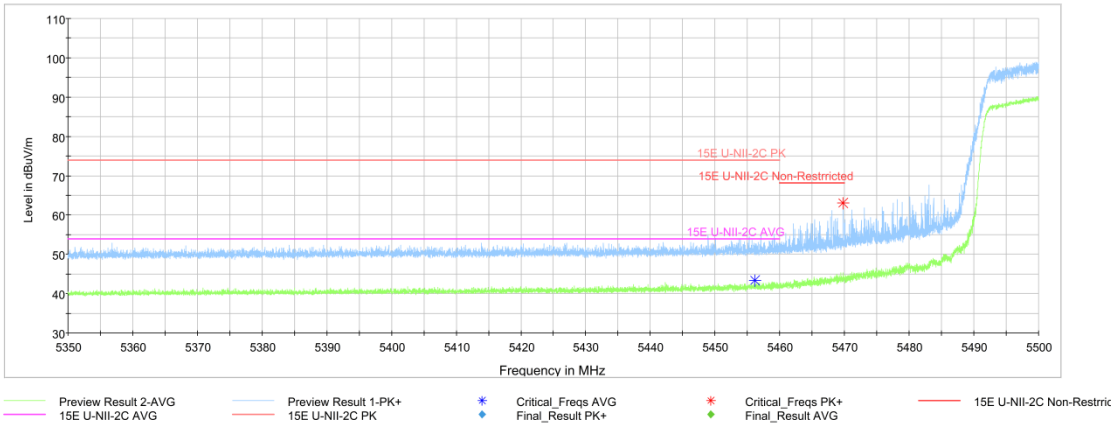


Fig. 11 Band Edges (802.11n-HT40 , Ch102, 5510MHz)

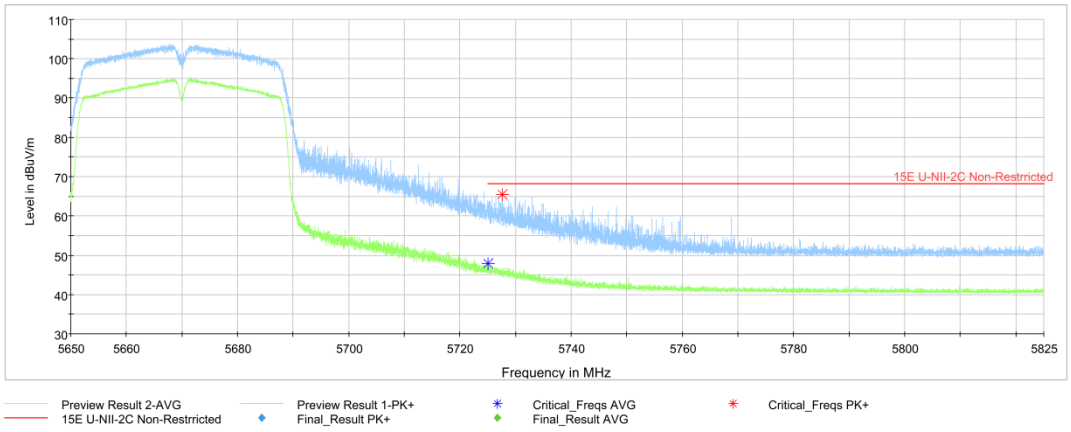


Fig. 12 Band Edges (802.11n-HT40 , Ch134, 5670MHz)

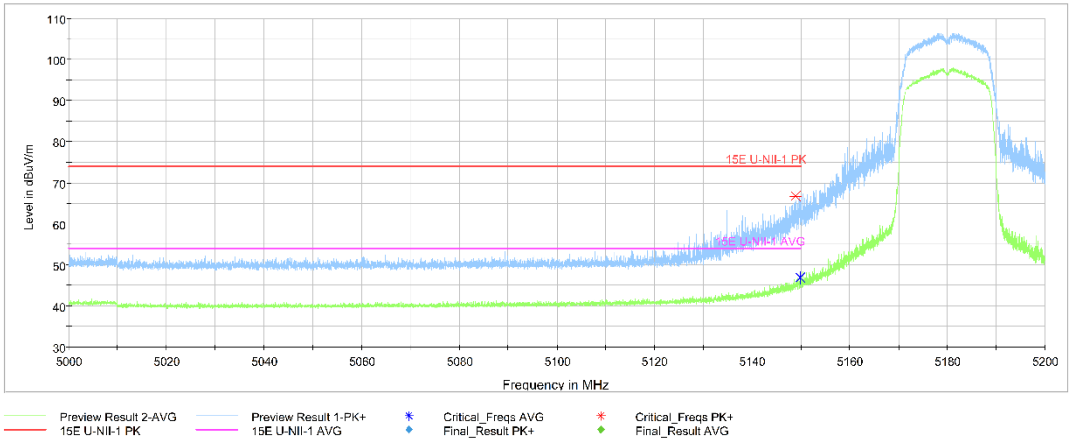


Fig. 13 Band Edges (802.11ac-HT20 , Ch36, 5180MHz)

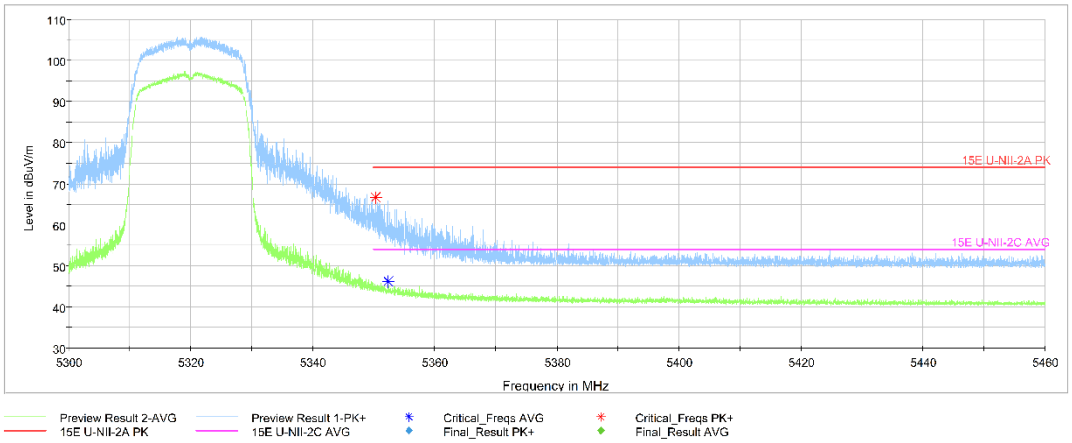


Fig. 14 Band Edges (802.11ac-HT20 , Ch64, 5320MHz)

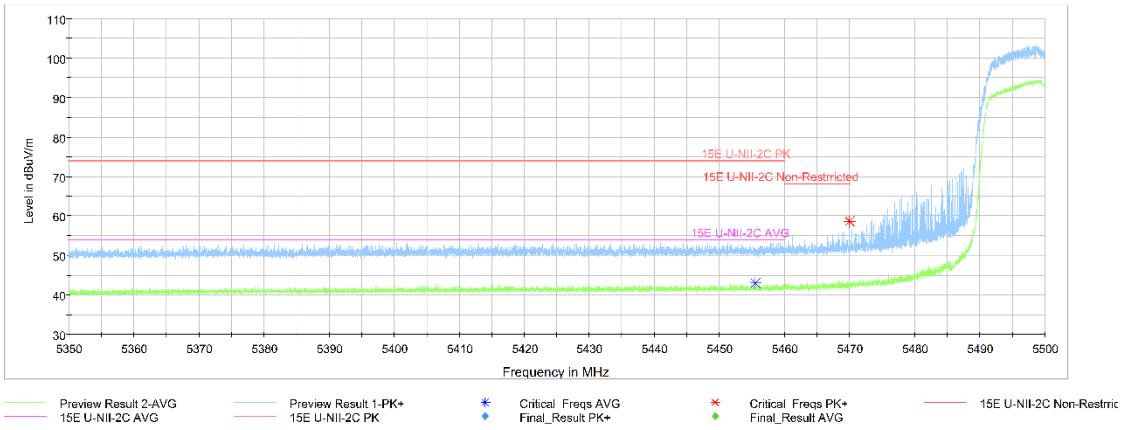


Fig. 15 Band Edges (802.11ac-HT20 , Ch100, 5500MHz)