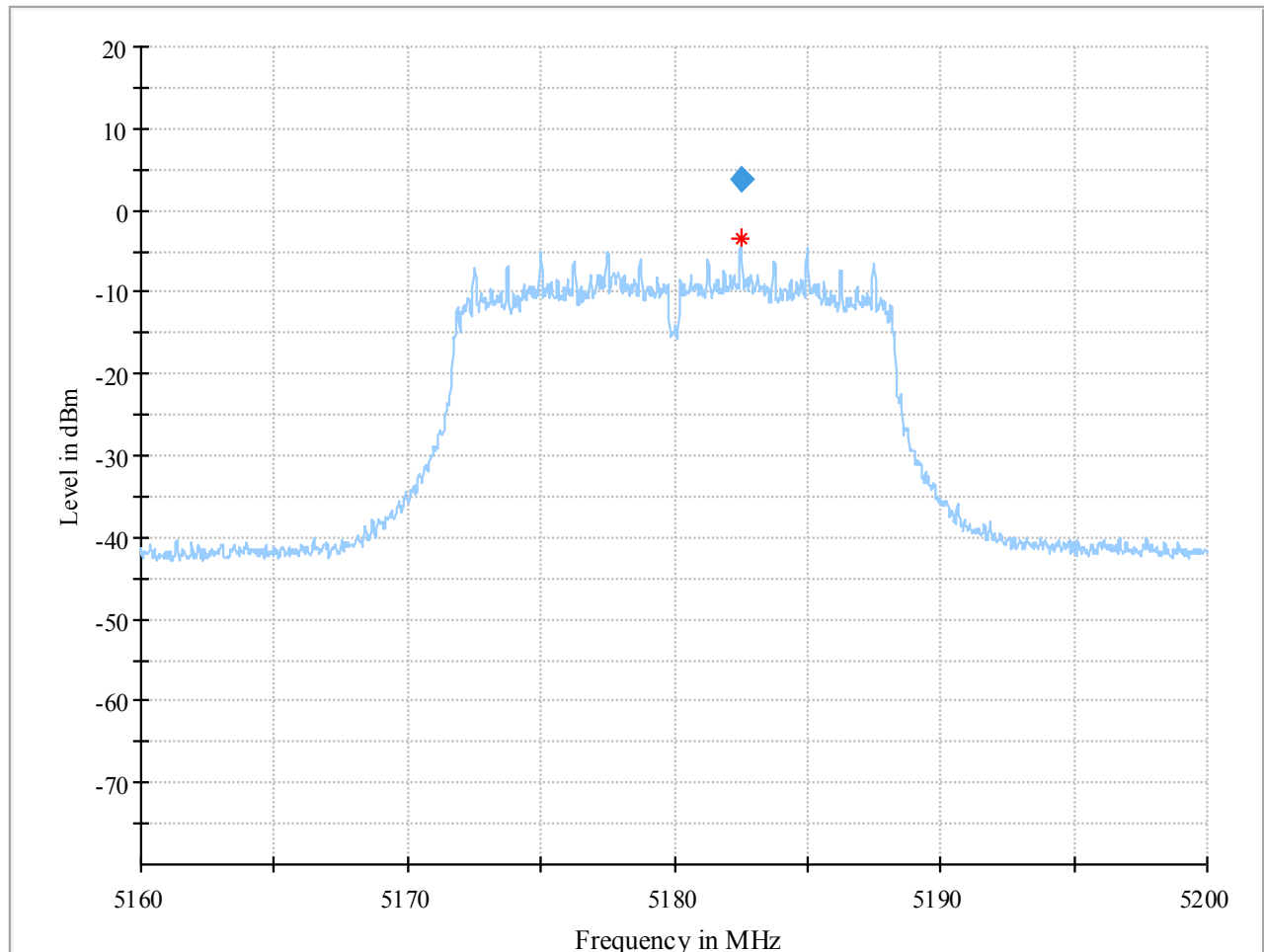


Plot 184: Mode 1, Peak EIRP, channel 36



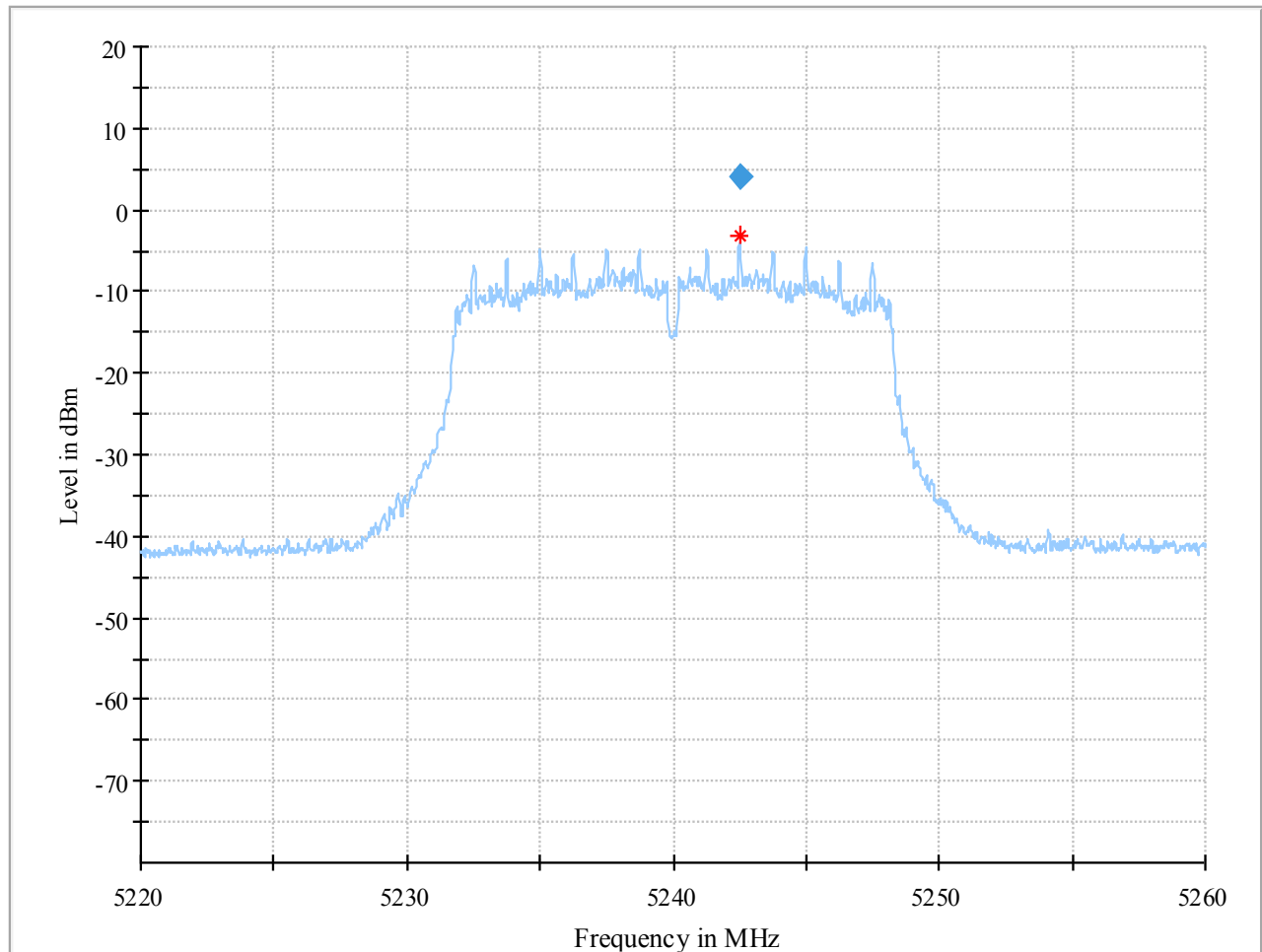
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5182.500000	3.67	---	---	100.0	1000.000	150.0	V	293.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5182.500000	90.0	-54.7	21:39:46 - 18.08.2021

Plot 185: Mode 1, Peak EIRP, channel 48



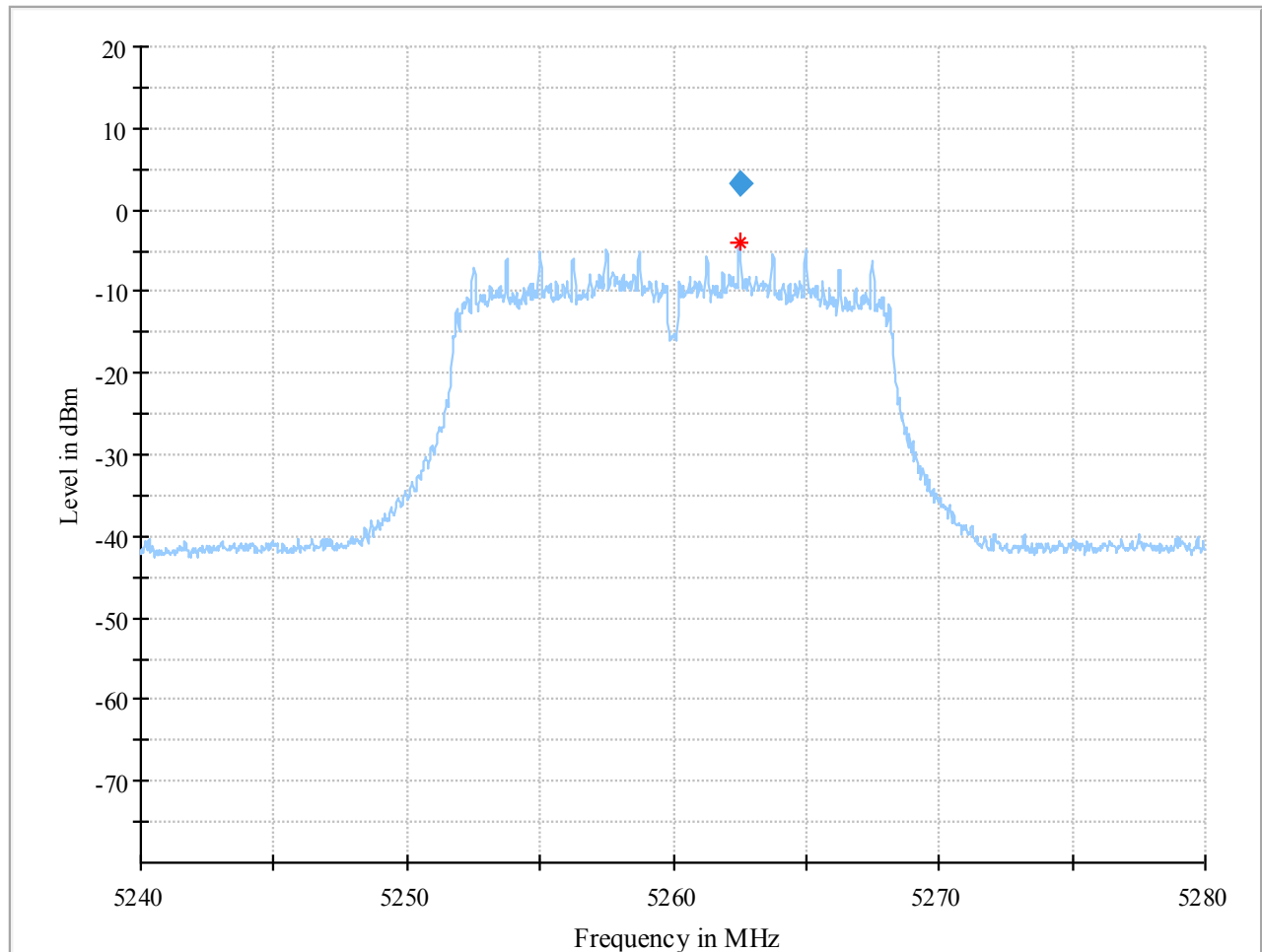
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5242.500000	4.10	---	---	100.0	1000.000	150.0	V	292.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5242.500000	90.0	-54.6	22:02:51 - 18.08.2021

Plot 186: Mode 1, Peak EIRP, channel 52



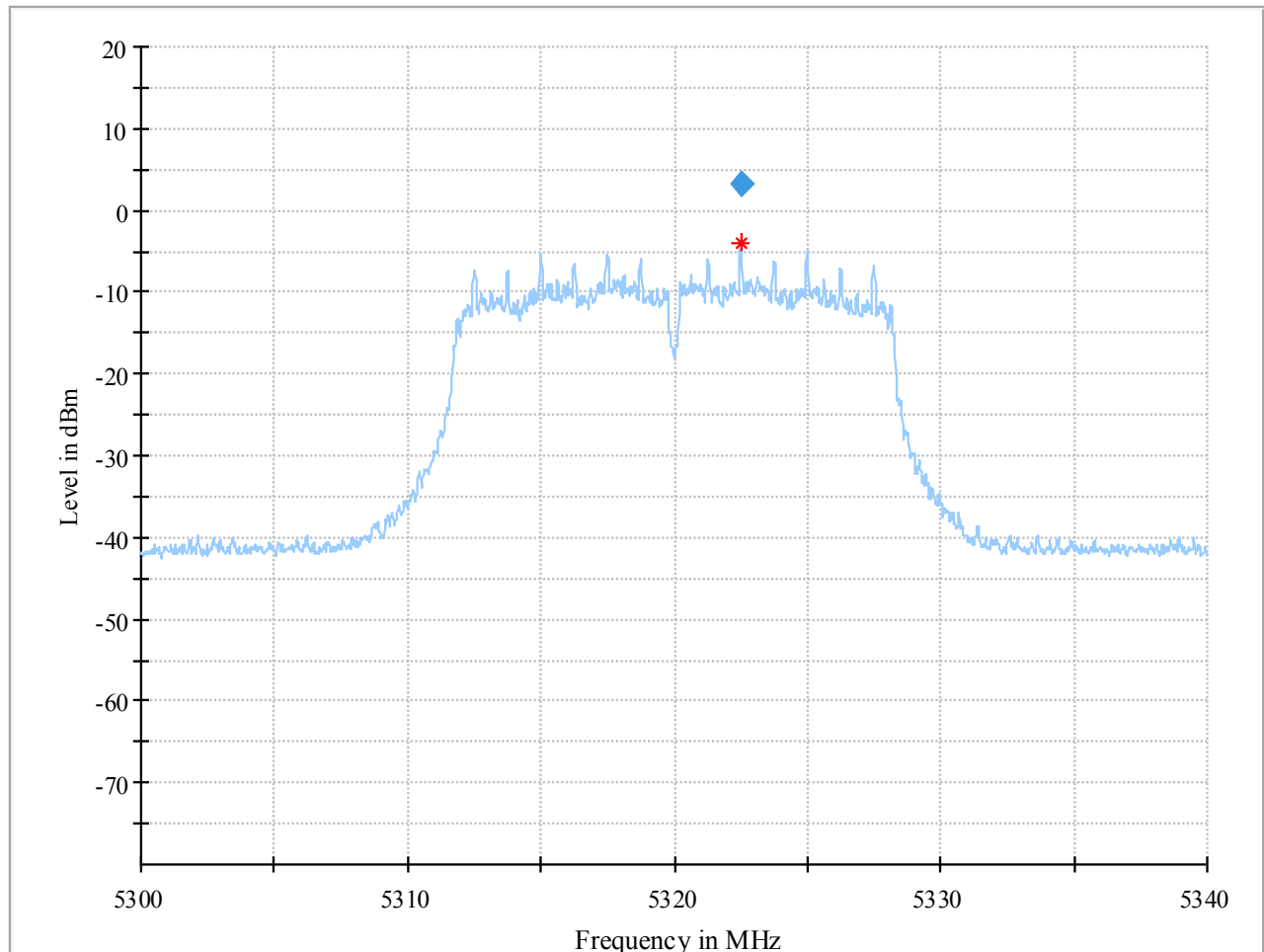
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5262.500000	3.21	---	---	100.0	1000.000	150.0	H	274.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5262.500000	90.0	-54.6	22:18:14 - 18.08.2021

Plot 187: Mode 1, Peak EIRP, channel 64



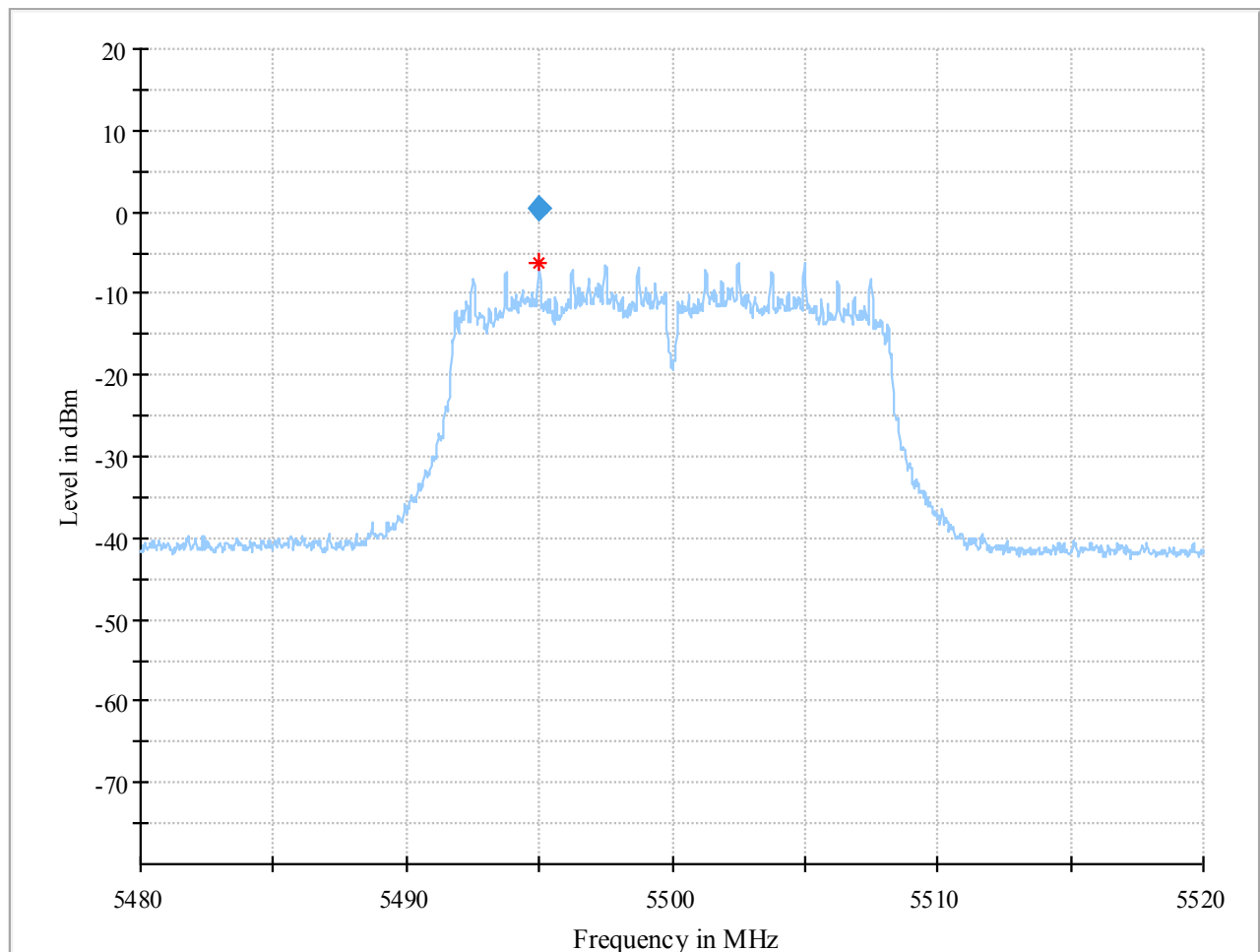
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5322.500000	3.34	---	---	100.0	1000.000	150.0	H	276.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5322.500000	90.0	-54.4	22:33:13 - 18.08.2021

Plot 188: Mode 1, Peak EIRP, channel 100



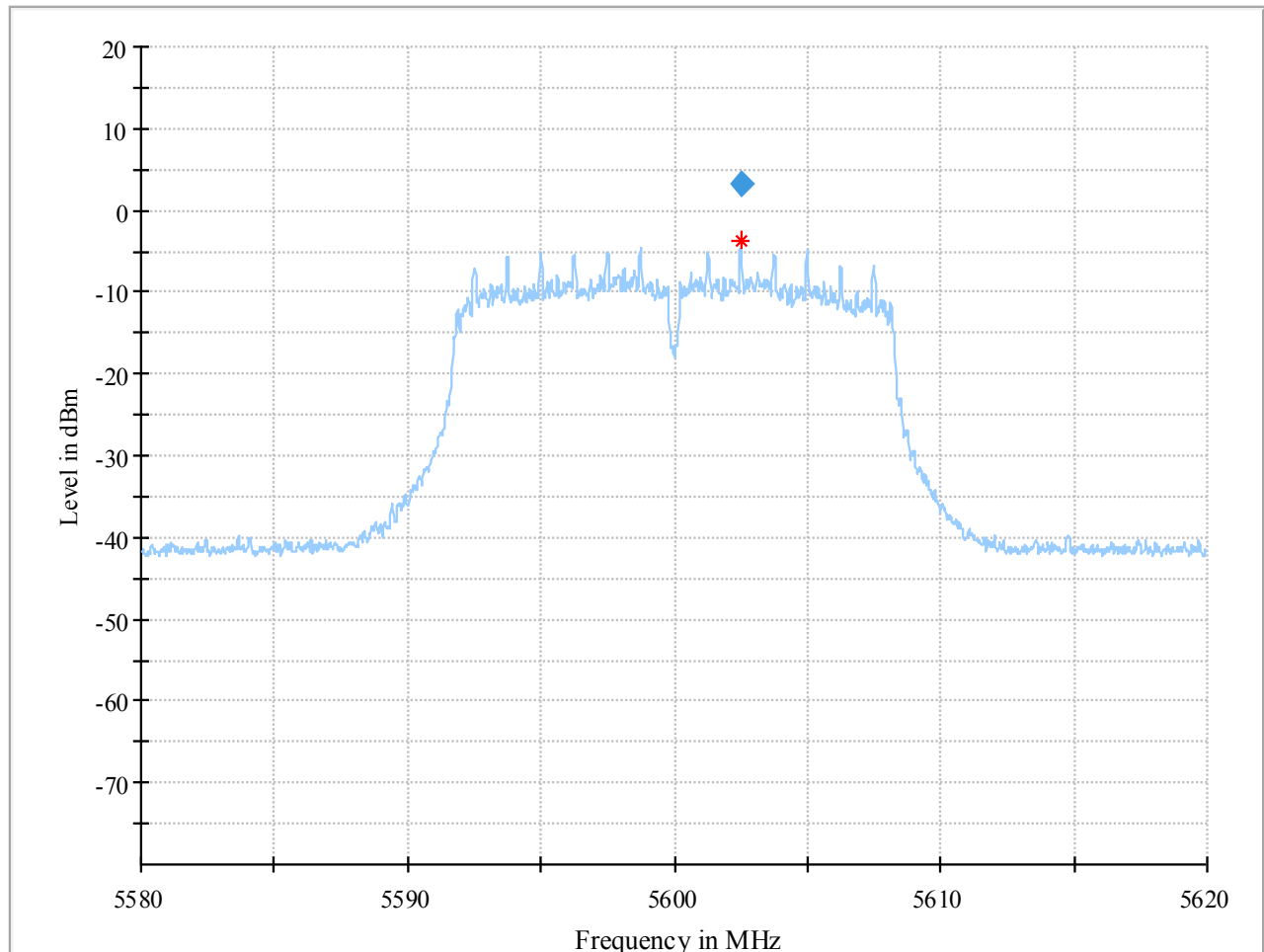
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5495.000000	0.51	---	---	100.0	1000.000	150.0	H	229.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5495.000000	90.0	-53.9	22:47:58 - 18.08.2021

Plot 189: Mode 1, Peak EIRP, channel 120



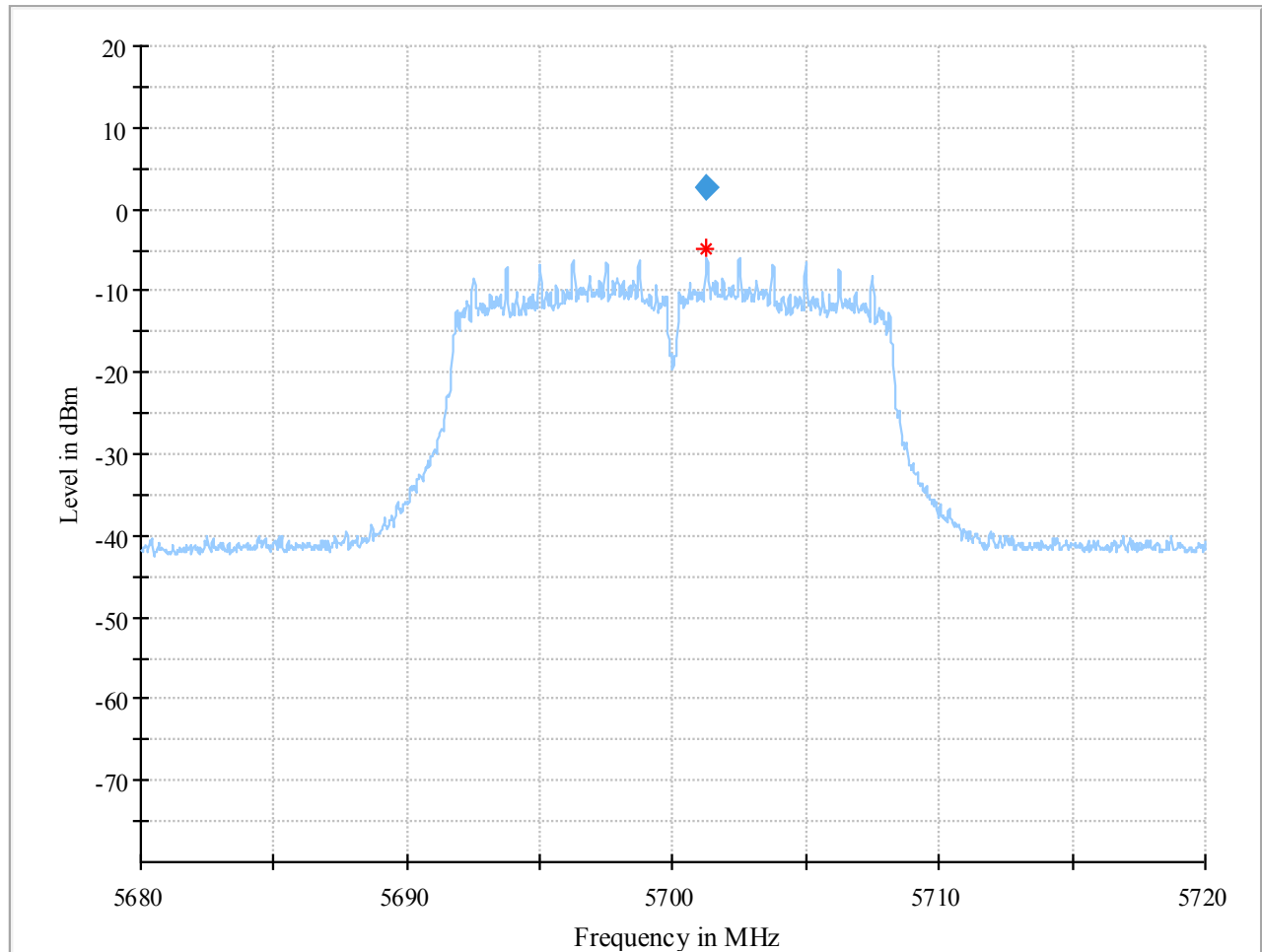
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5602.500000	3.23	---	---	100.0	1000.000	150.0	H	263.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5602.500000	90.0	-54.0	23:02:13 - 18.08.2021

Plot 190: Mode 1, Peak EIRP, channel 140



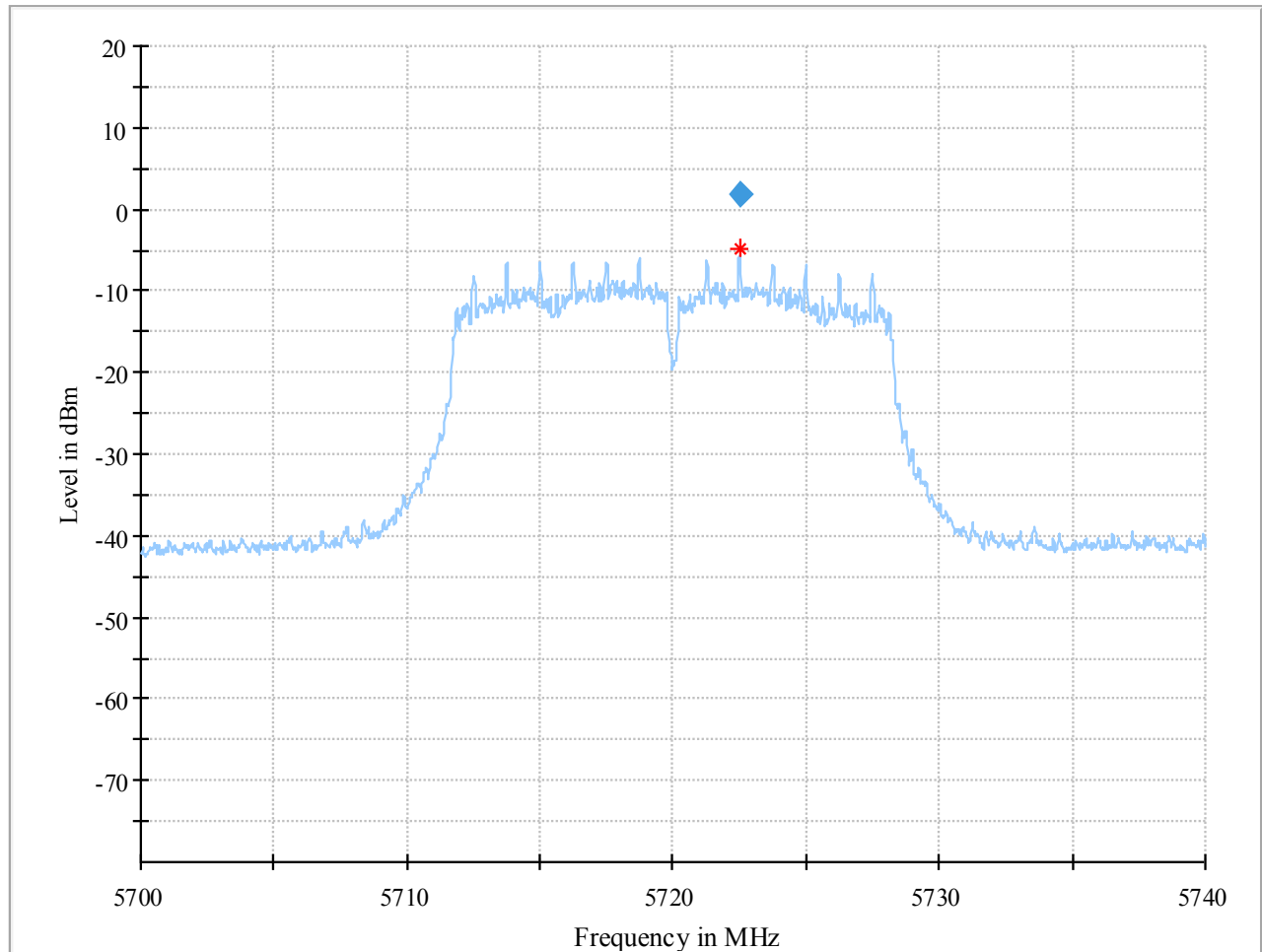
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5701.250000	2.72	---	---	100.0	1000.000	150.0	V	-1.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5701.250000	90.0	-54.1	23:17:03 - 18.08.2021

Plot 191: Mode 1, Peak EIRP, channel 144



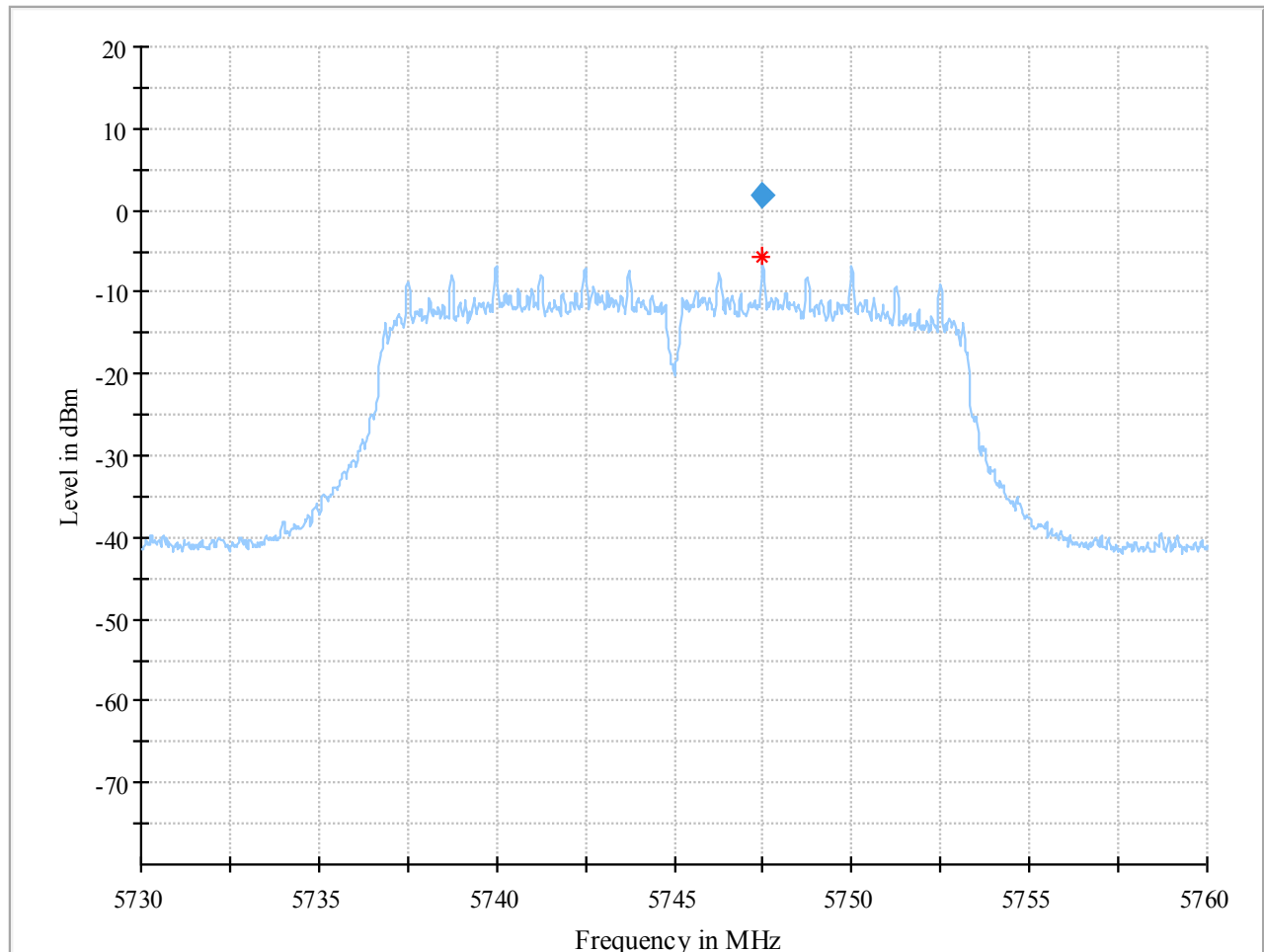
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5722.500000	1.95	---	---	100.0	1000.000	150.0	H	256.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5722.500000	90.0	-54.1	23:31:38 - 18.08.2021

Plot 192: Mode 1, Peak EIRP, channel 149



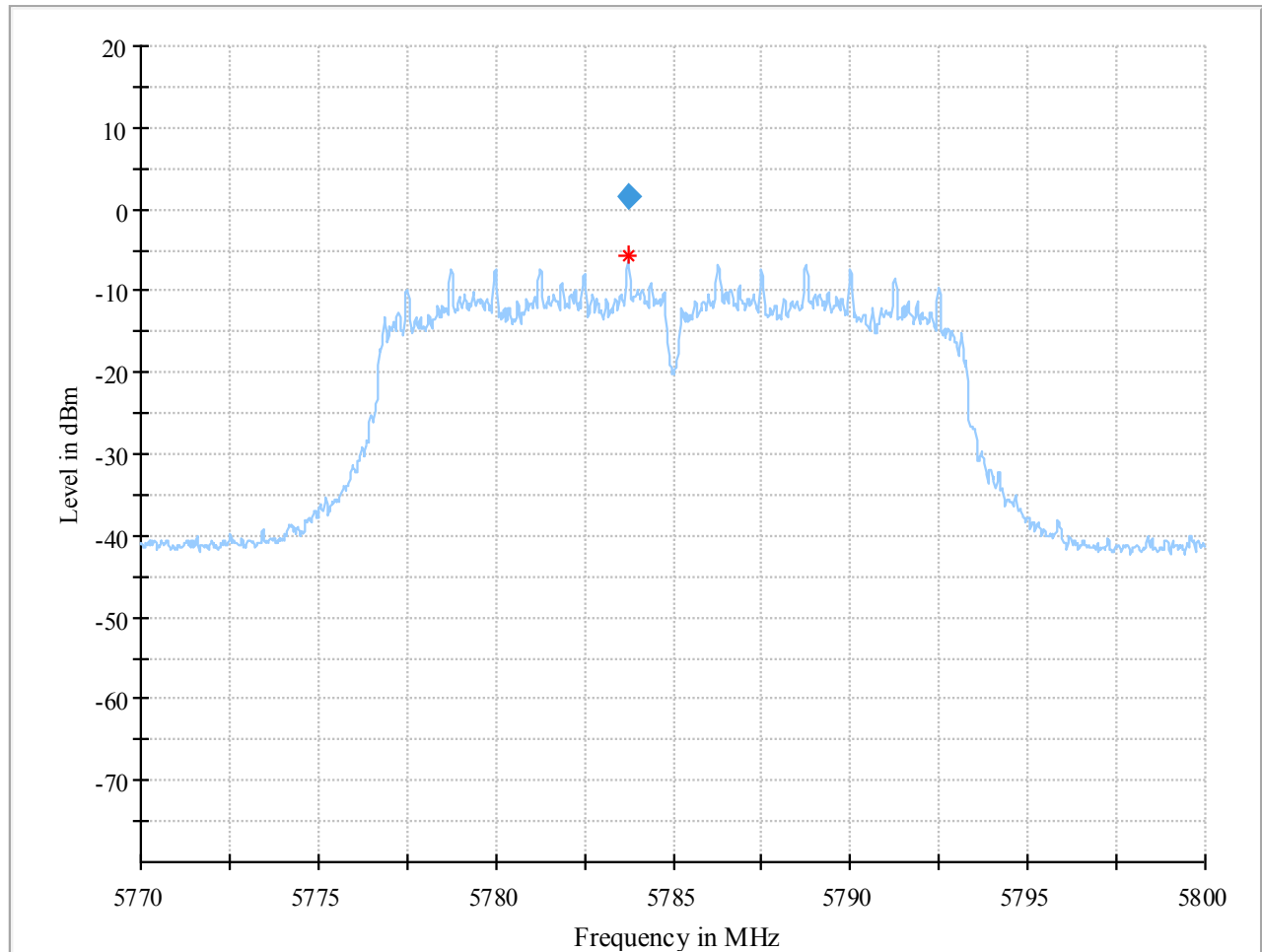
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5747.500000	1.76	---	---	100.0	1000.000	150.0	H	258.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5747.500000	90.0	-54.1	23:49:53 - 18.08.2021

Plot 193: Mode 1, Peak EIRP, channel 157



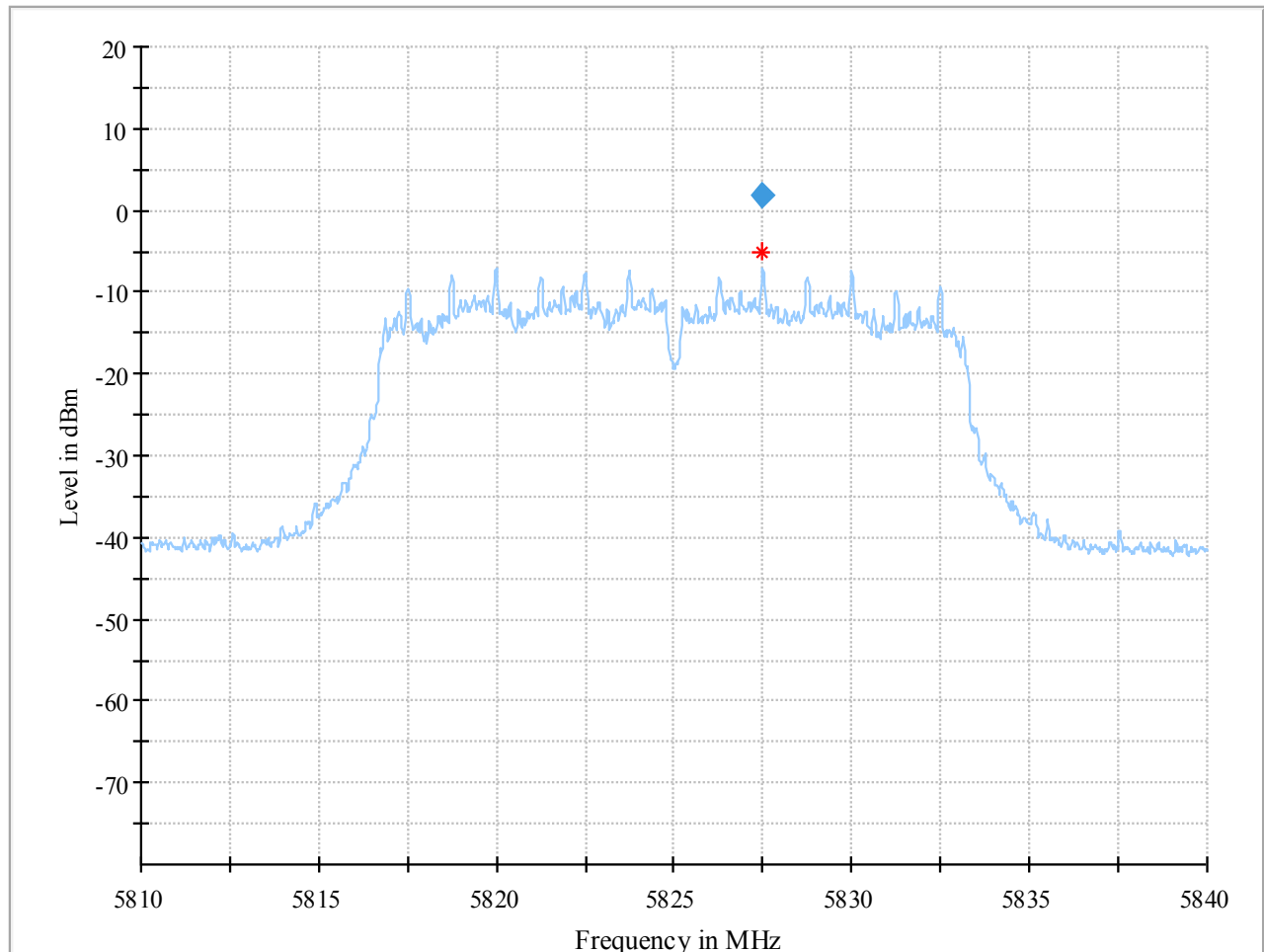
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5783.750000	1.63	---	---	100.0	1000.000	150.0	V	284.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5783.750000	90.0	-54.1	00:10:12 - 19.08.2021

Plot 194: Mode 1, Peak EIRP, channel 165



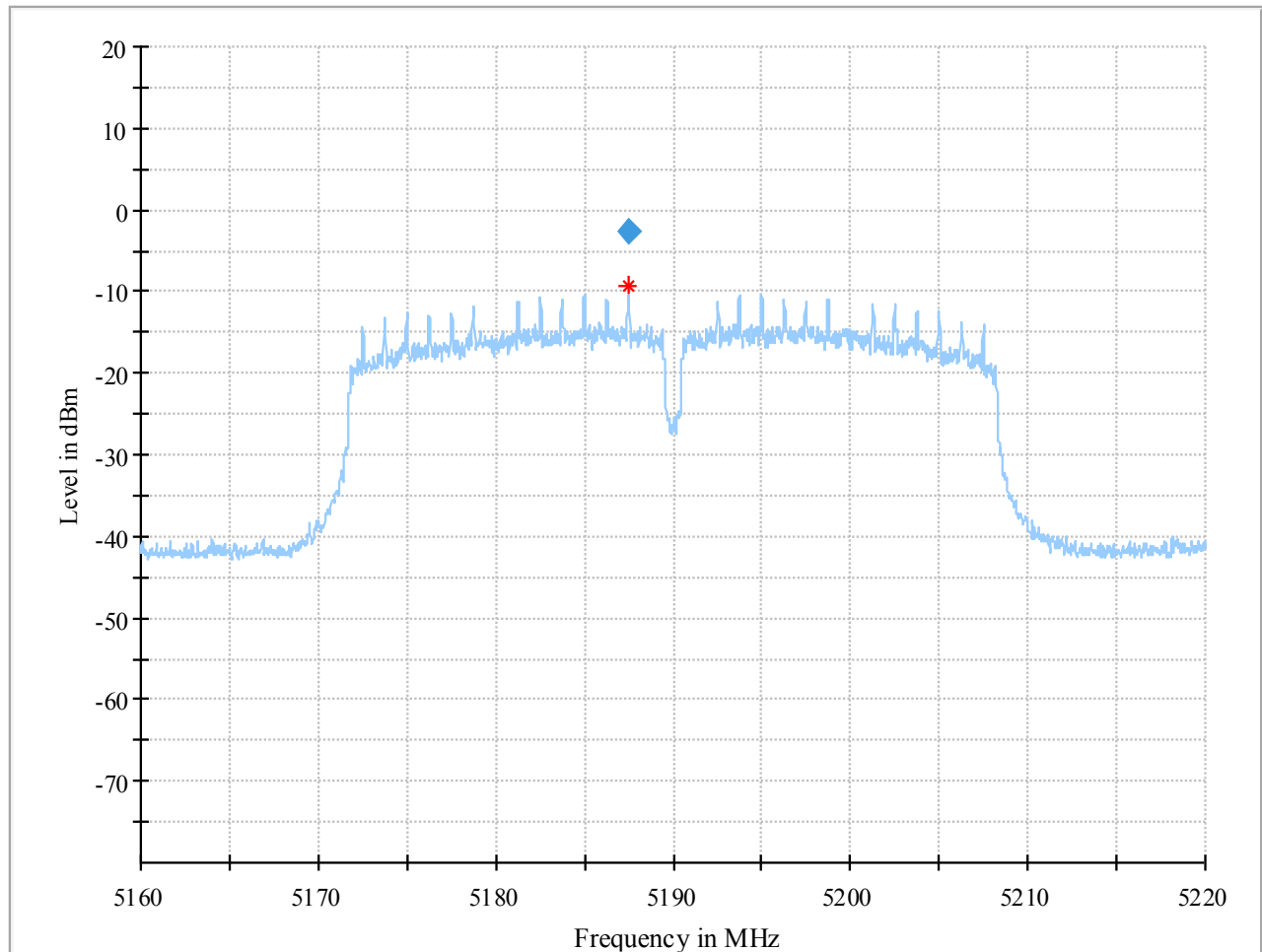
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5827.500000	1.91	---	---	100.0	1000.000	150.0	V	7.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5827.500000	90.0	-54.0	00:25:53 - 19.08.2021

Plot 195: Mode 3, Peak EIRP, channel 38



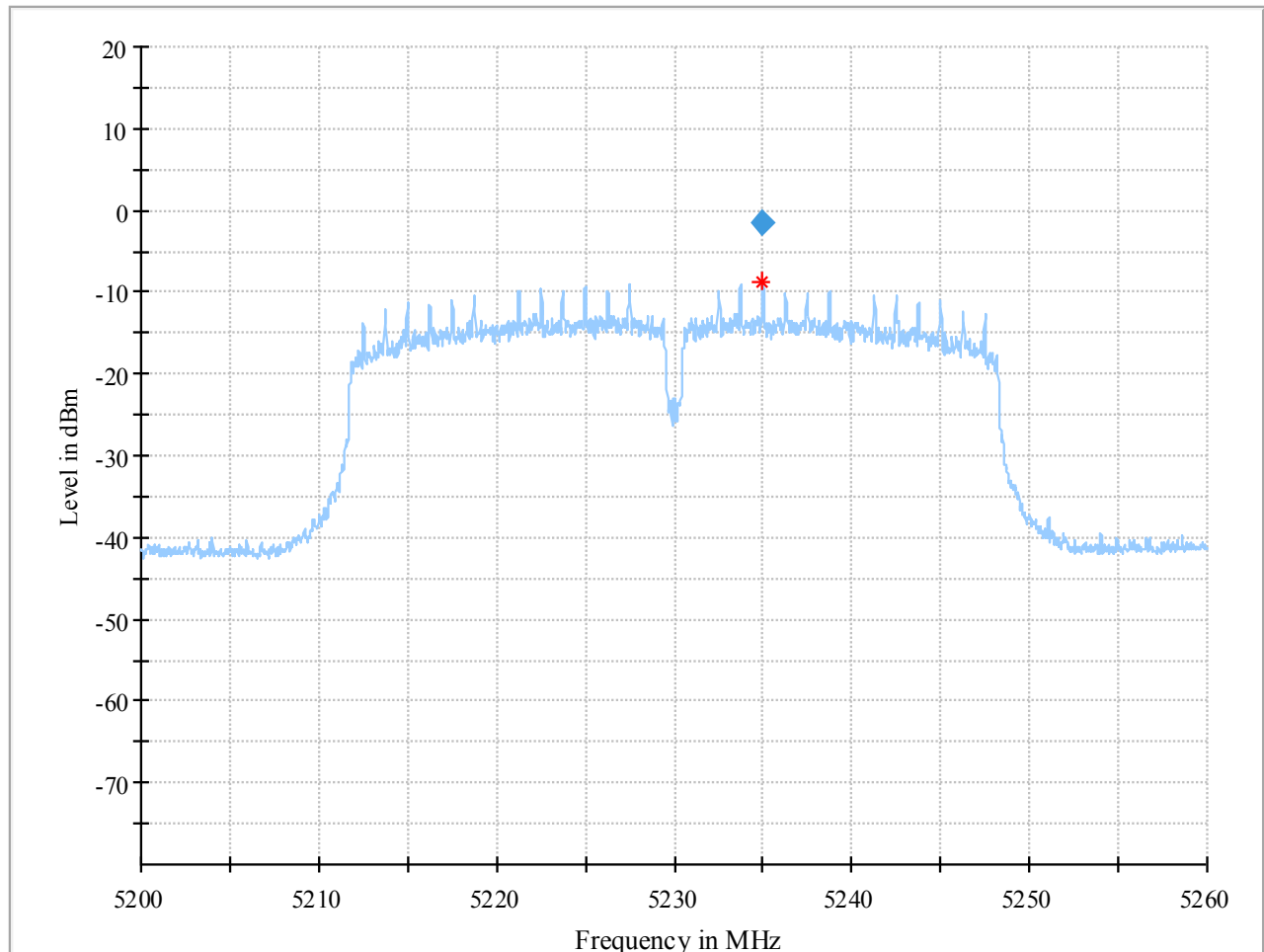
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5187.500000	-2.55	---	---	100.0	1000.000	150.0	V	300.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5187.500000	90.0	-54.7	00:47:08 - 19.08.2021

Plot 196: Mode 3, Peak EIRP, channel 46



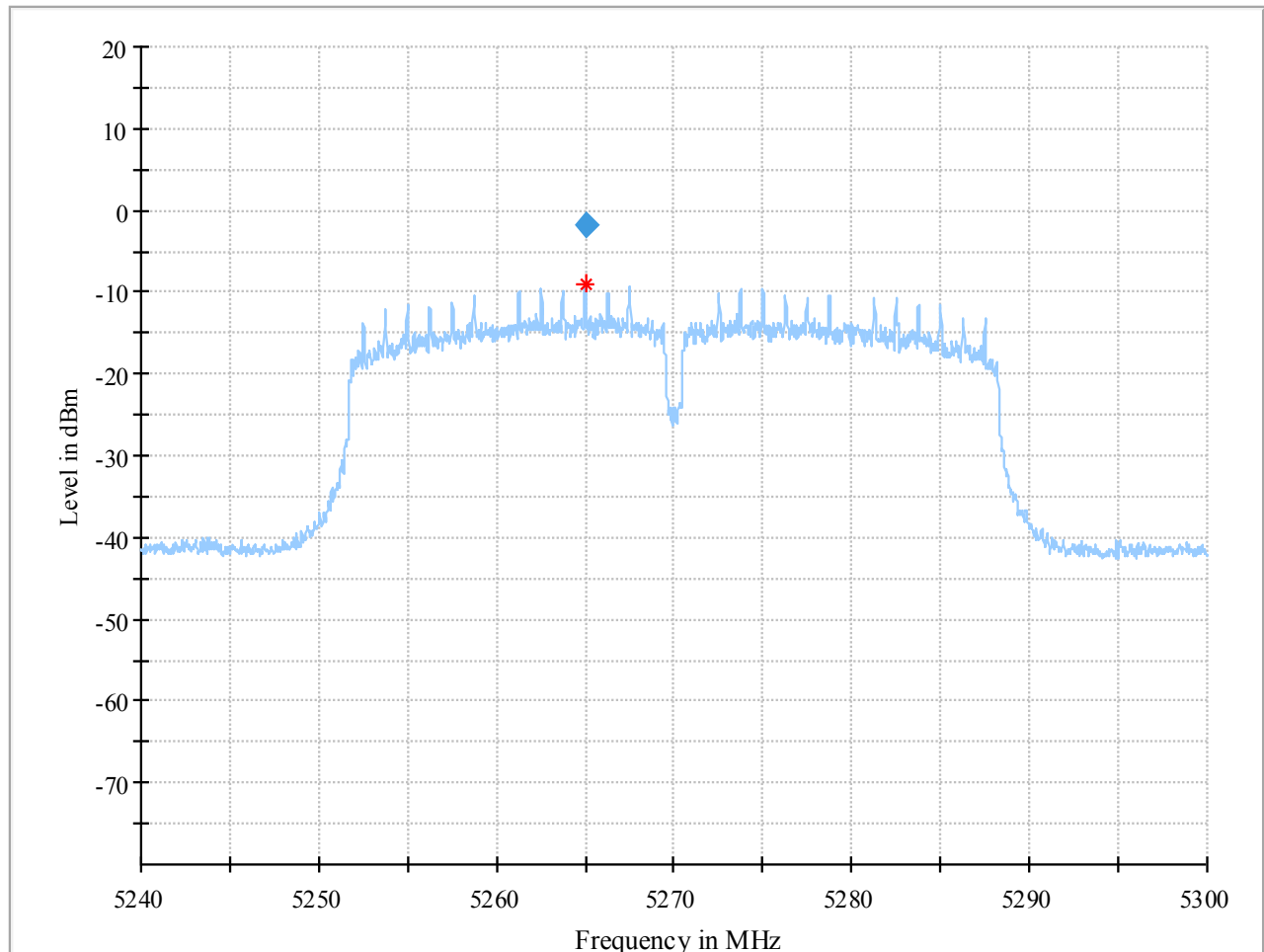
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5235.000000	-1.52	---	---	100.0	1000.000	150.0	V	273.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5235.000000	90.0	-54.6	19:13:49 - 19.08.2021

Plot 197: Mode 3, Peak EIRP, channel 54



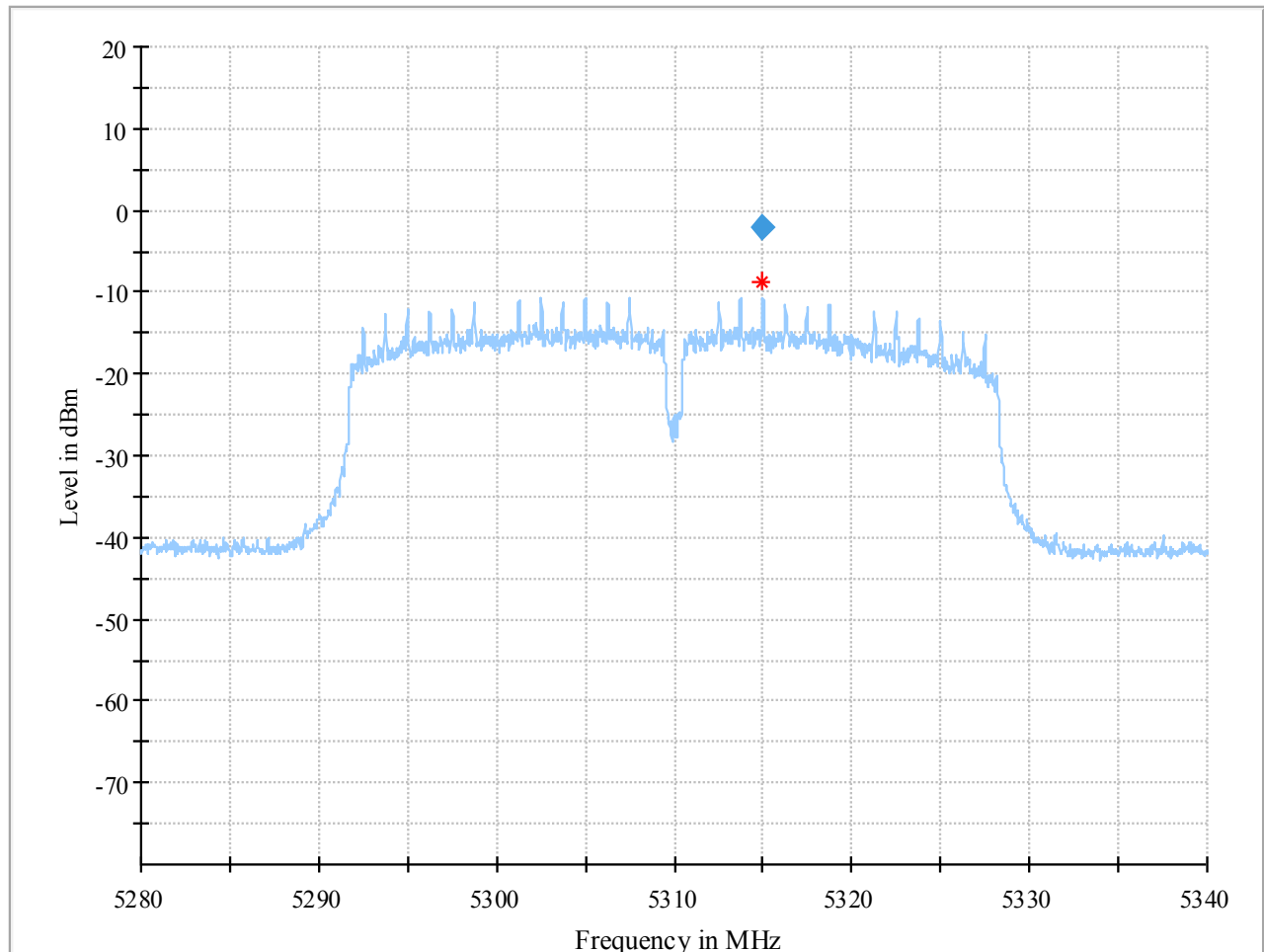
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5265.000000	-1.74	---	---	100.0	1000.000	150.0	V	273.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5265.000000	90.0	-54.6	19:30:20 - 19.08.2021

Plot 198: Mode 3, Peak EIRP, channel 62



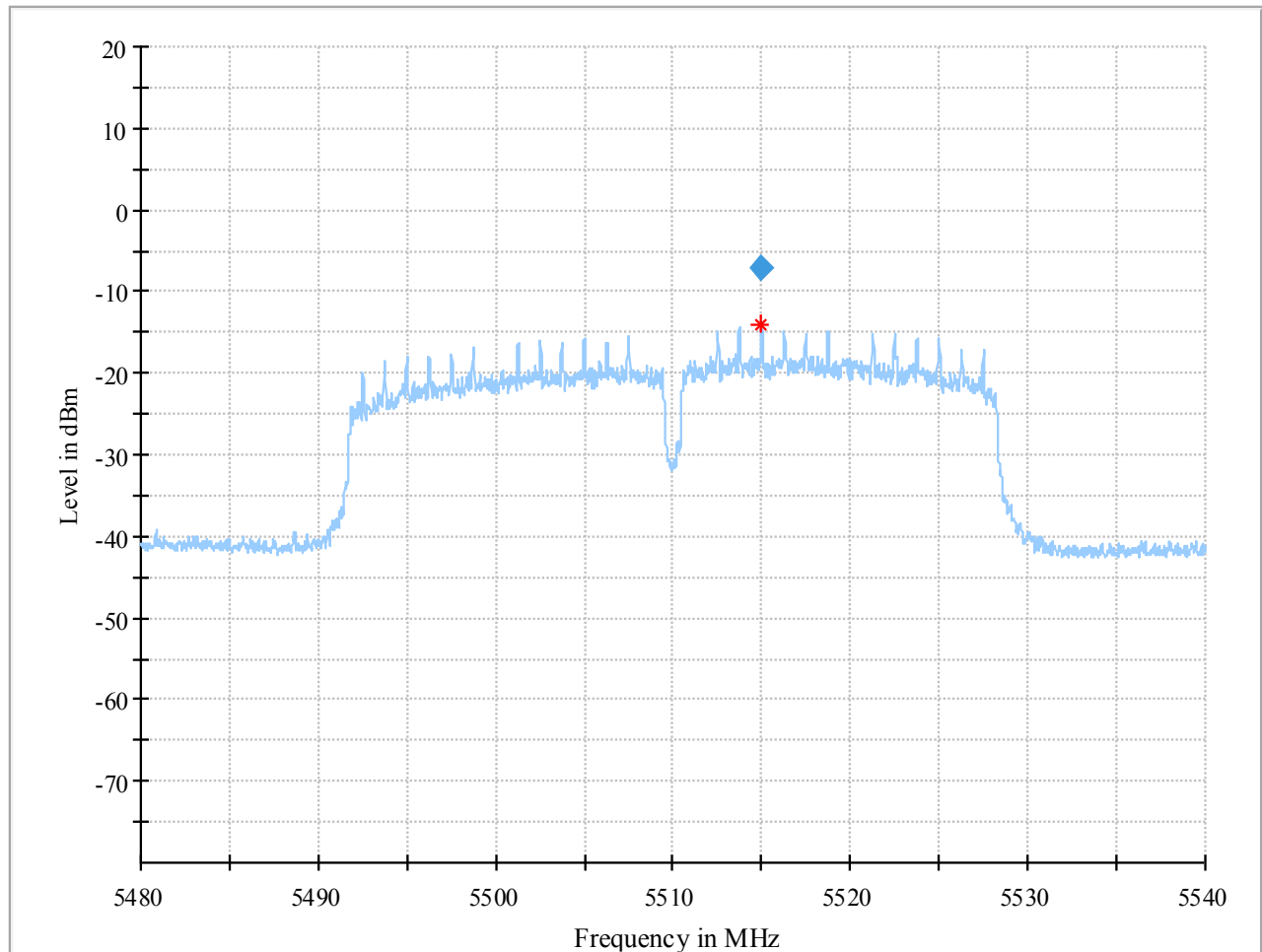
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5315.000000	-2.09	---	---	100.0	1000.000	150.0	V	292.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5315.000000	90.0	-54.4	19:44:49 - 19.08.2021

Plot 199: Mode 3, Peak EIRP, channel 102



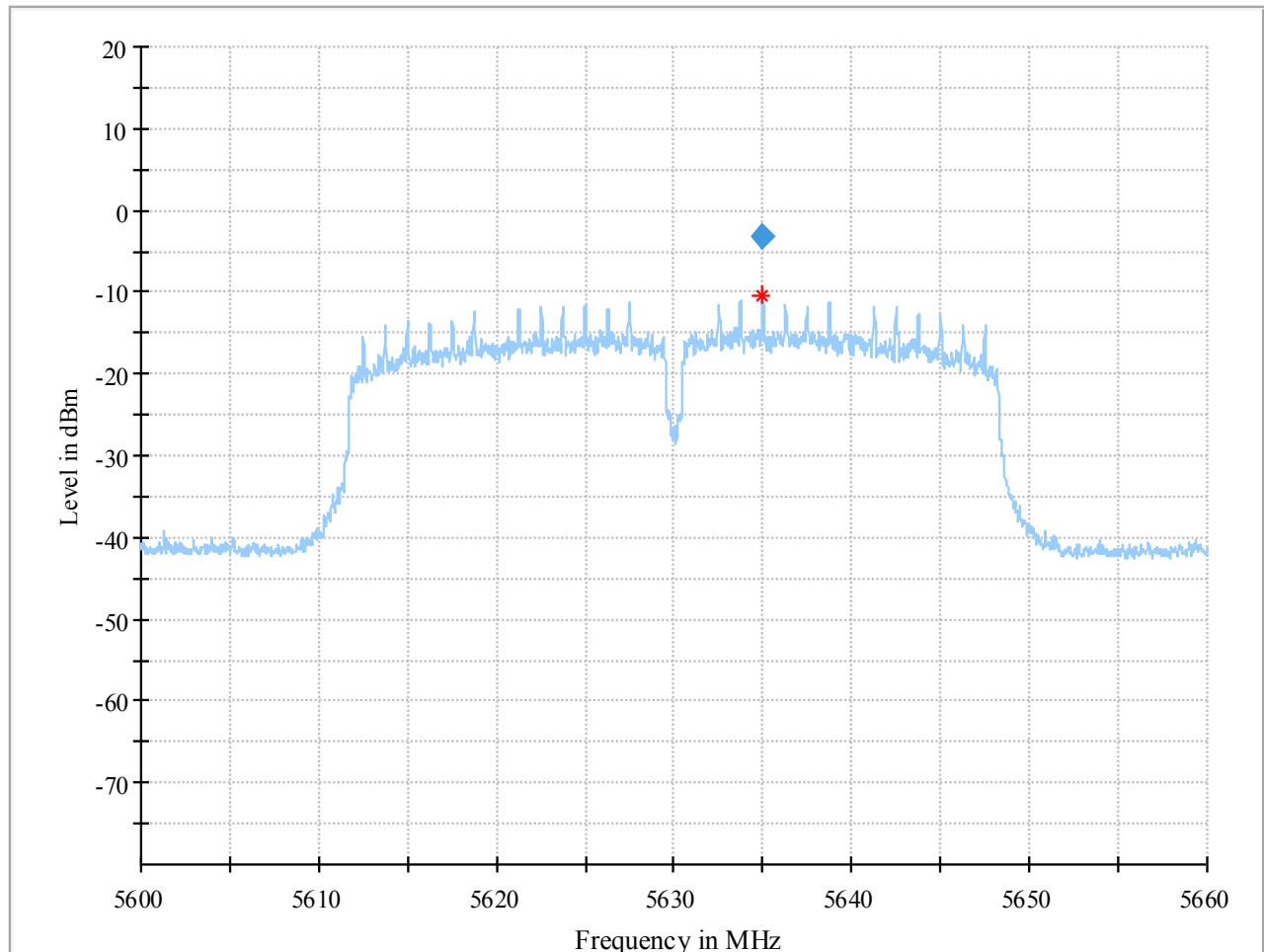
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5515.000000	-7.13	---	---	100.0	1000.000	150.0	V	4.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5515.000000	90.0	-53.9	19:59:42 - 19.08.2021

Plot 200: Mode 3, Peak EIRP, channel 126



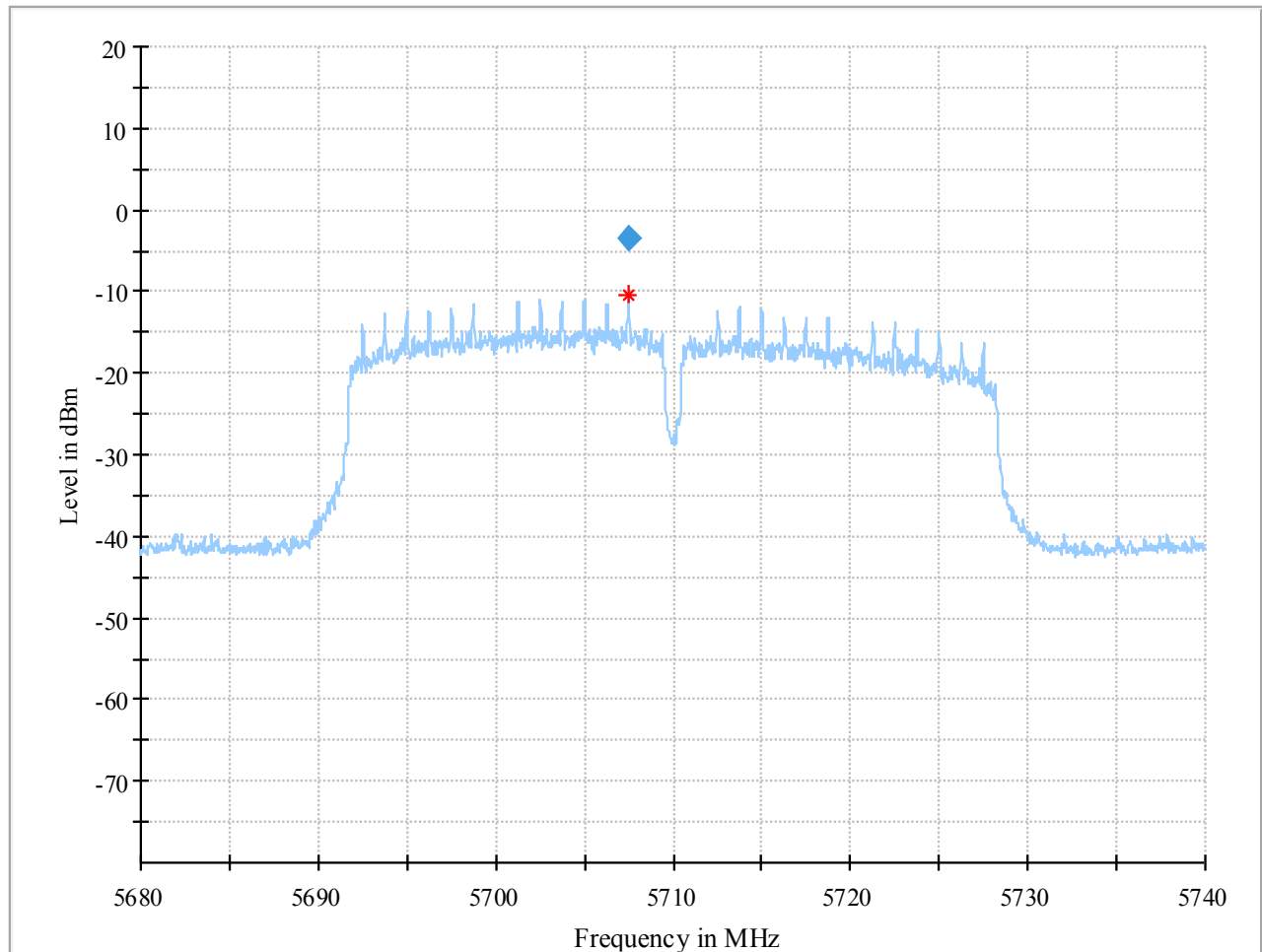
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5635.000000	-3.19	---	---	100.0	1000.000	150.0	V	2.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5635.000000	90.0	-54.0	20:22:58 - 19.08.2021

Plot 201: Mode 3, Peak EIRP, channel 142



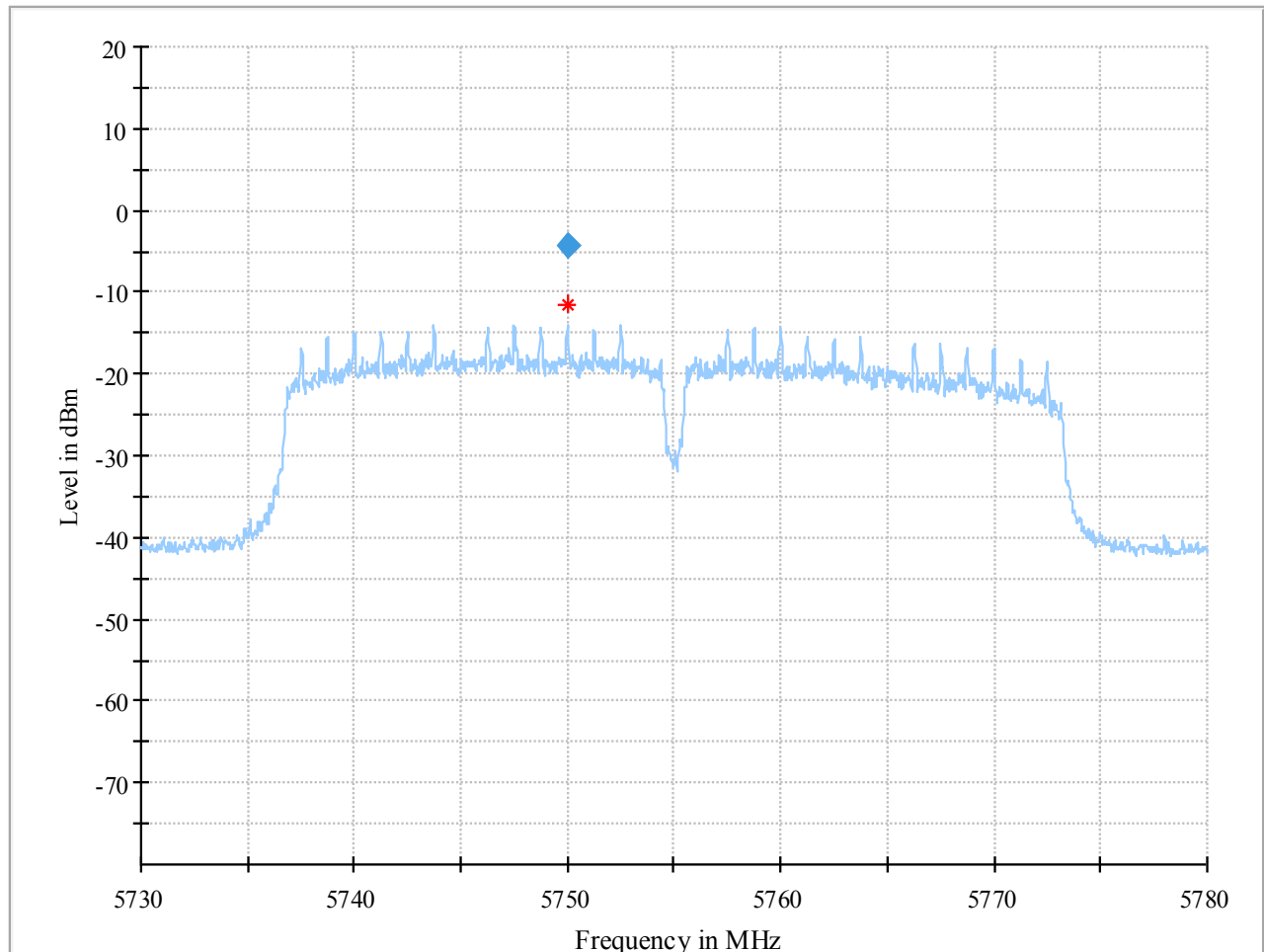
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5707.500000	-3.34	---	---	100.0	1000.000	150.0	V	6.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5707.500000	90.0	-54.1	20:38:56 - 19.08.2021

Plot 202: Mode 3, Peak EIRP, channel 151



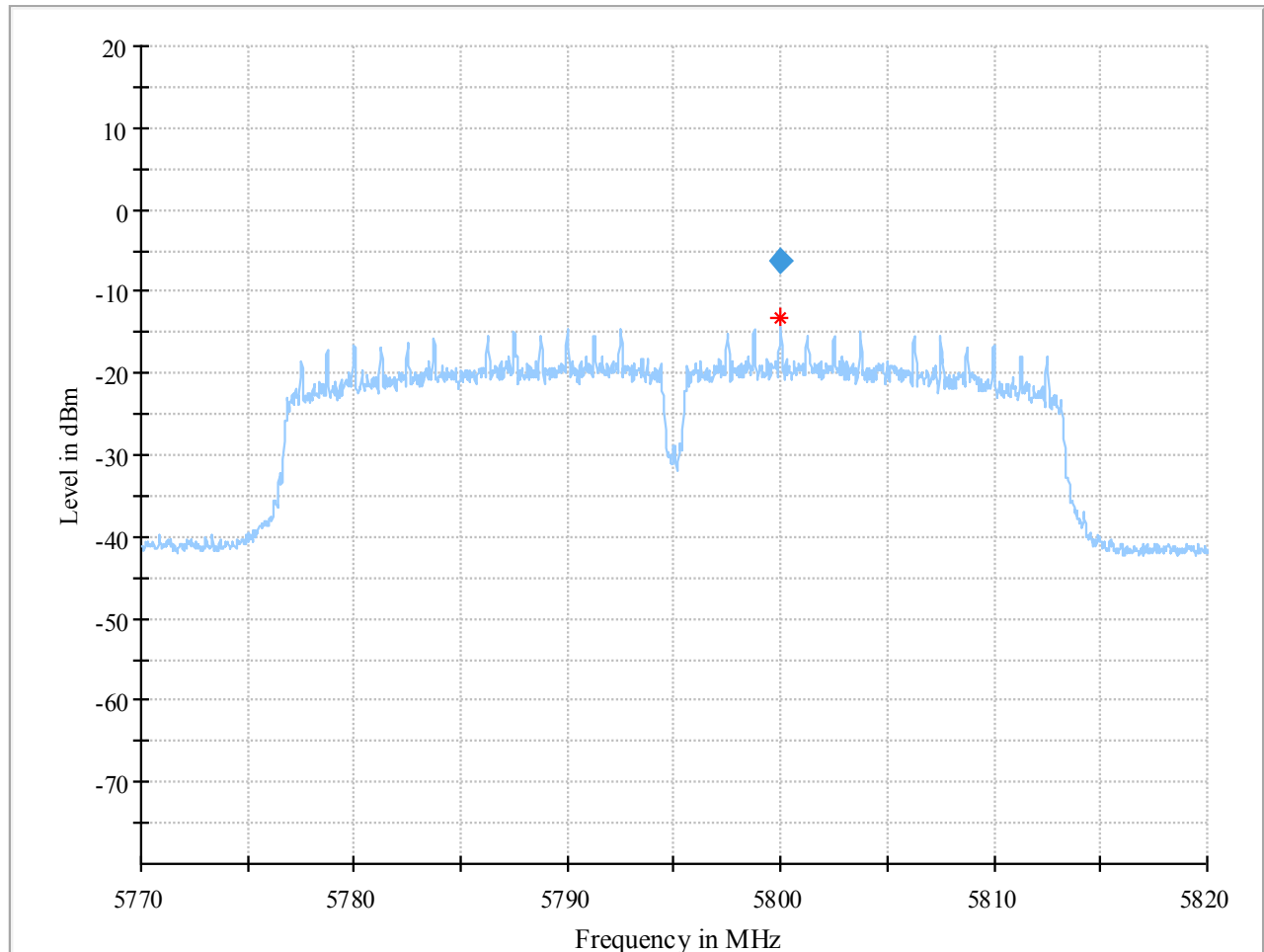
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5750.000000	-4.19	---	---	100.0	1000.000	150.0	V	10.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5750.000000	90.0	-54.1	20:55:13 - 19.08.2021

Plot 203: Mode 3, Peak EIRP, channel 159



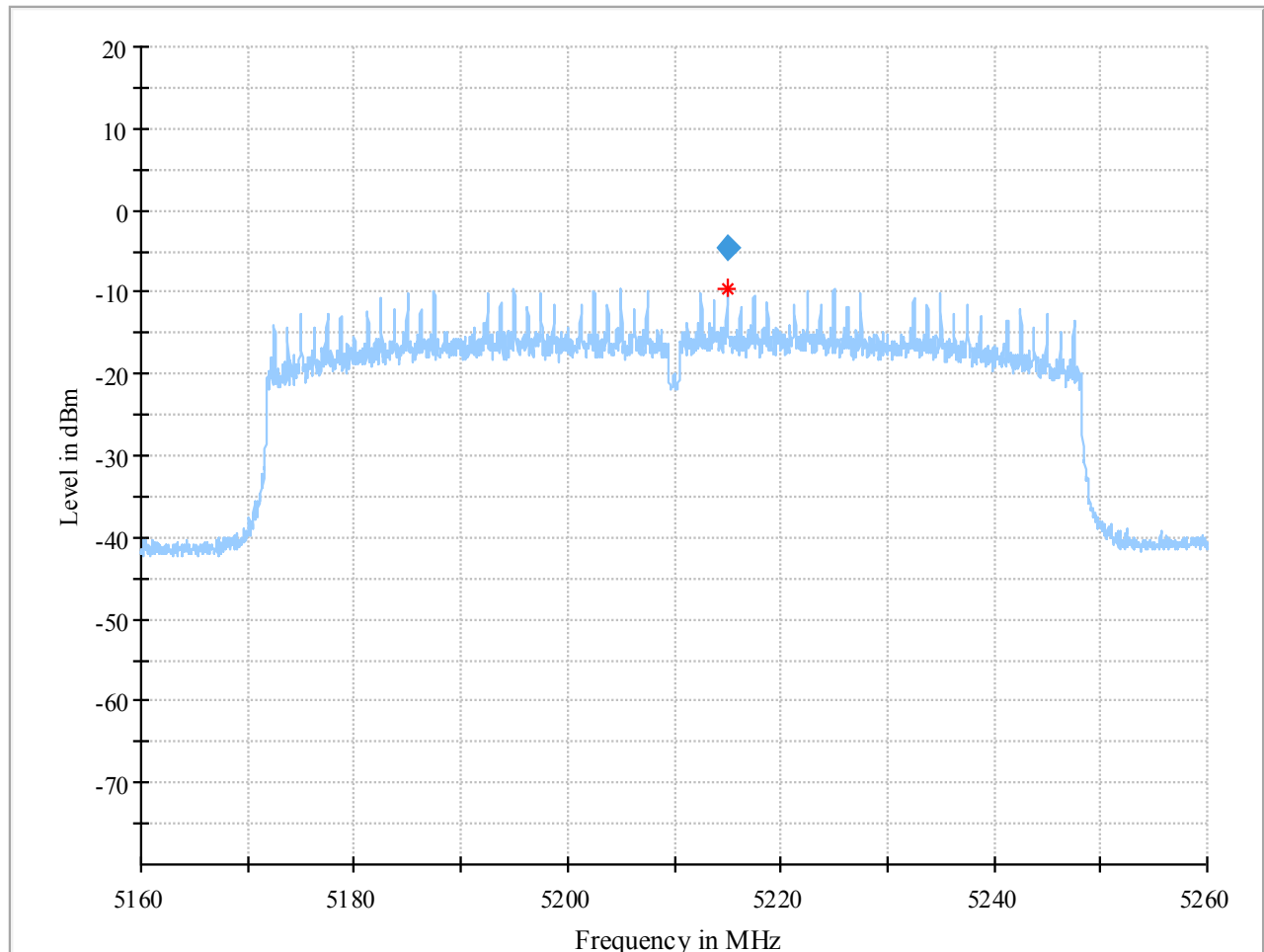
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5800.000000	-6.30	---	---	100.0	1000.000	150.0	V	312.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5800.000000	90.0	-54.0	21:15:45 - 19.08.2021

Plot 204: Mode 6, Peak EIRP, channel 42



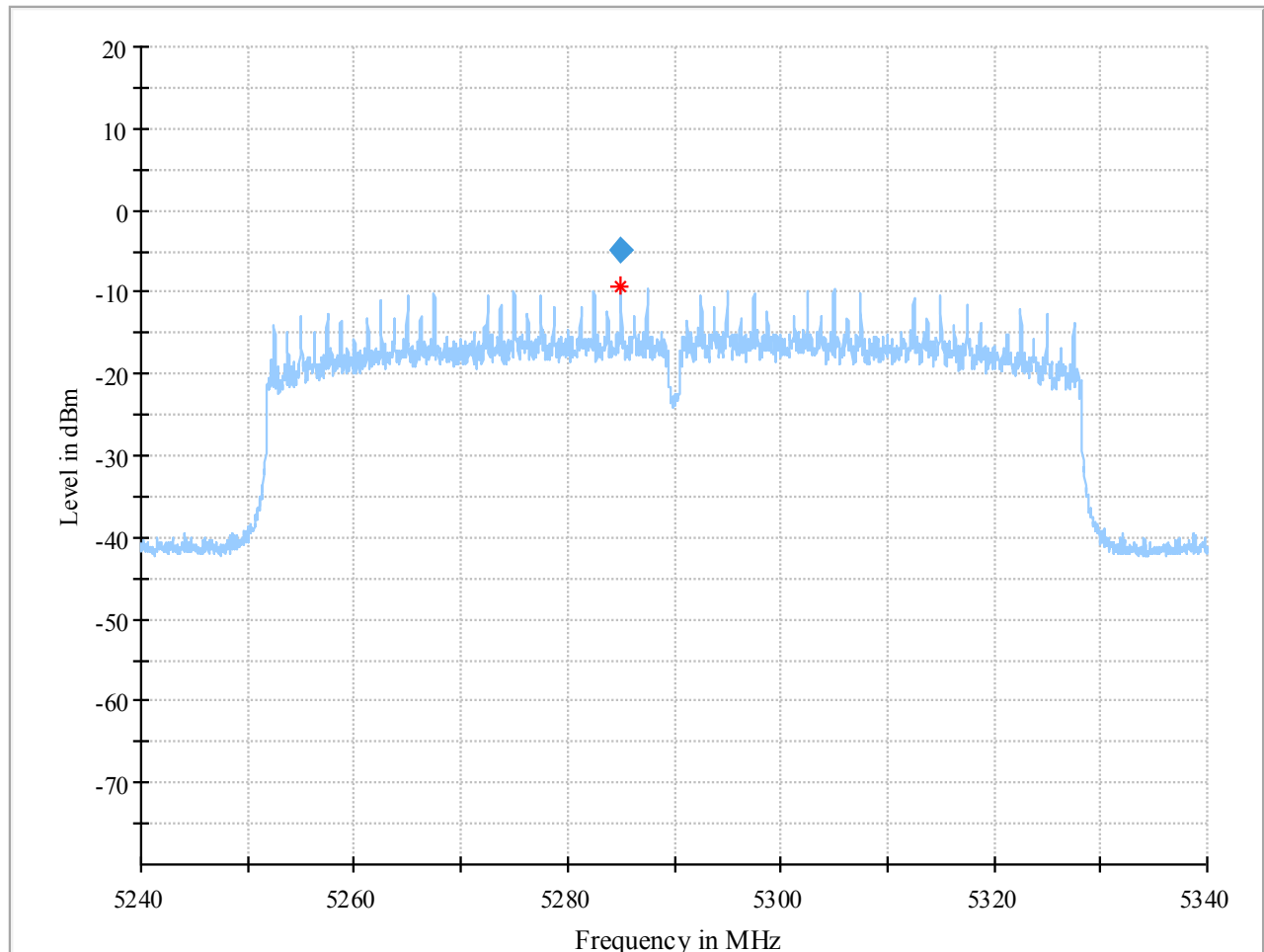
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5215.000000	-4.59	---	---	100.0	1000.000	150.0	H	273.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5215.000000	90.0	-54.7	12:23:33 - 20.08.2021

Plot 205: Mode 6, Peak EIRP, channel 58



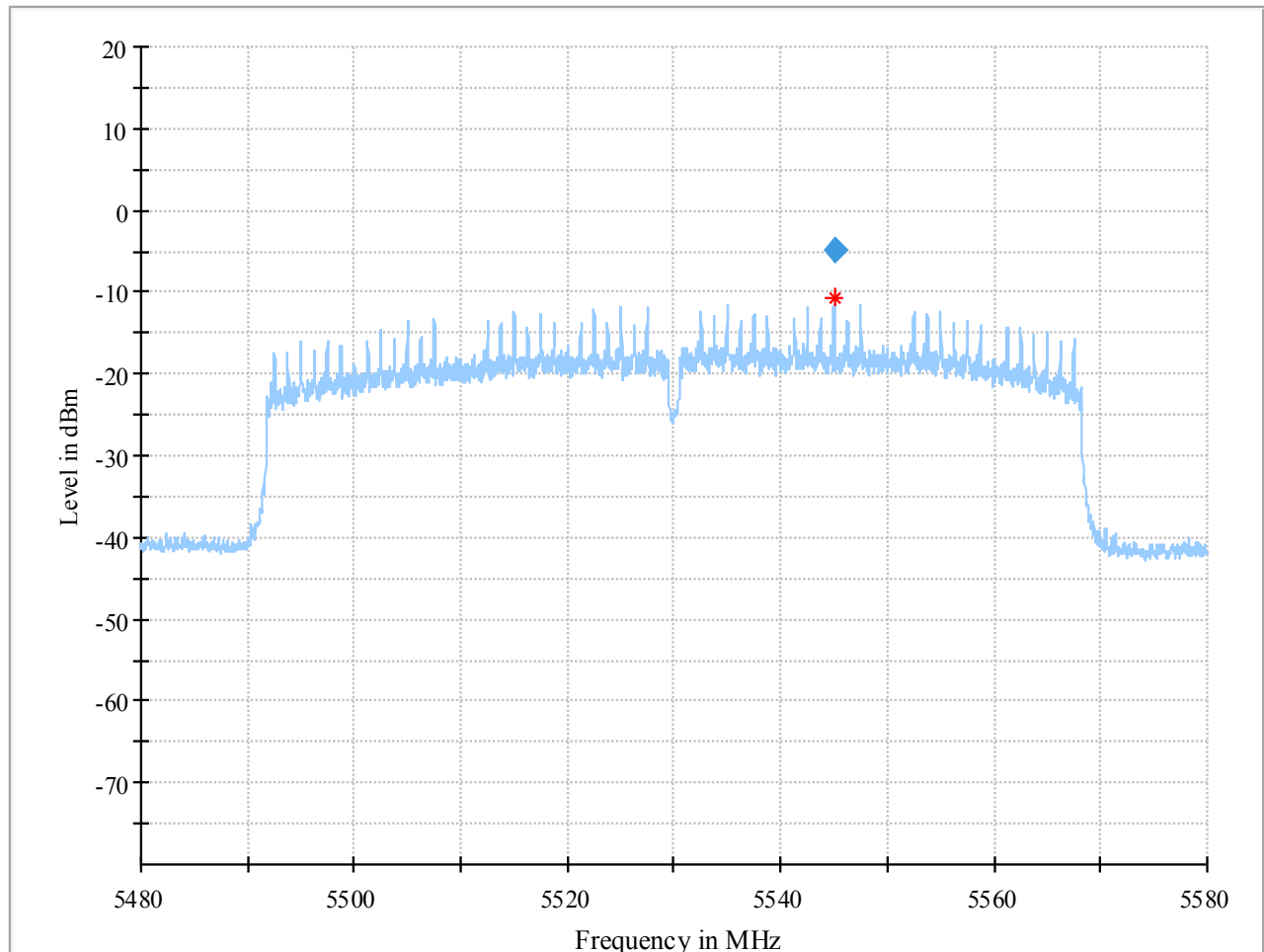
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5285.000000	-4.84	---	---	100.0	1000.000	150.0	H	274.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5285.000000	90.0	-54.5	12:39:19 - 20.08.2021

Plot 206: Mode 6, Peak EIRP, channel 106



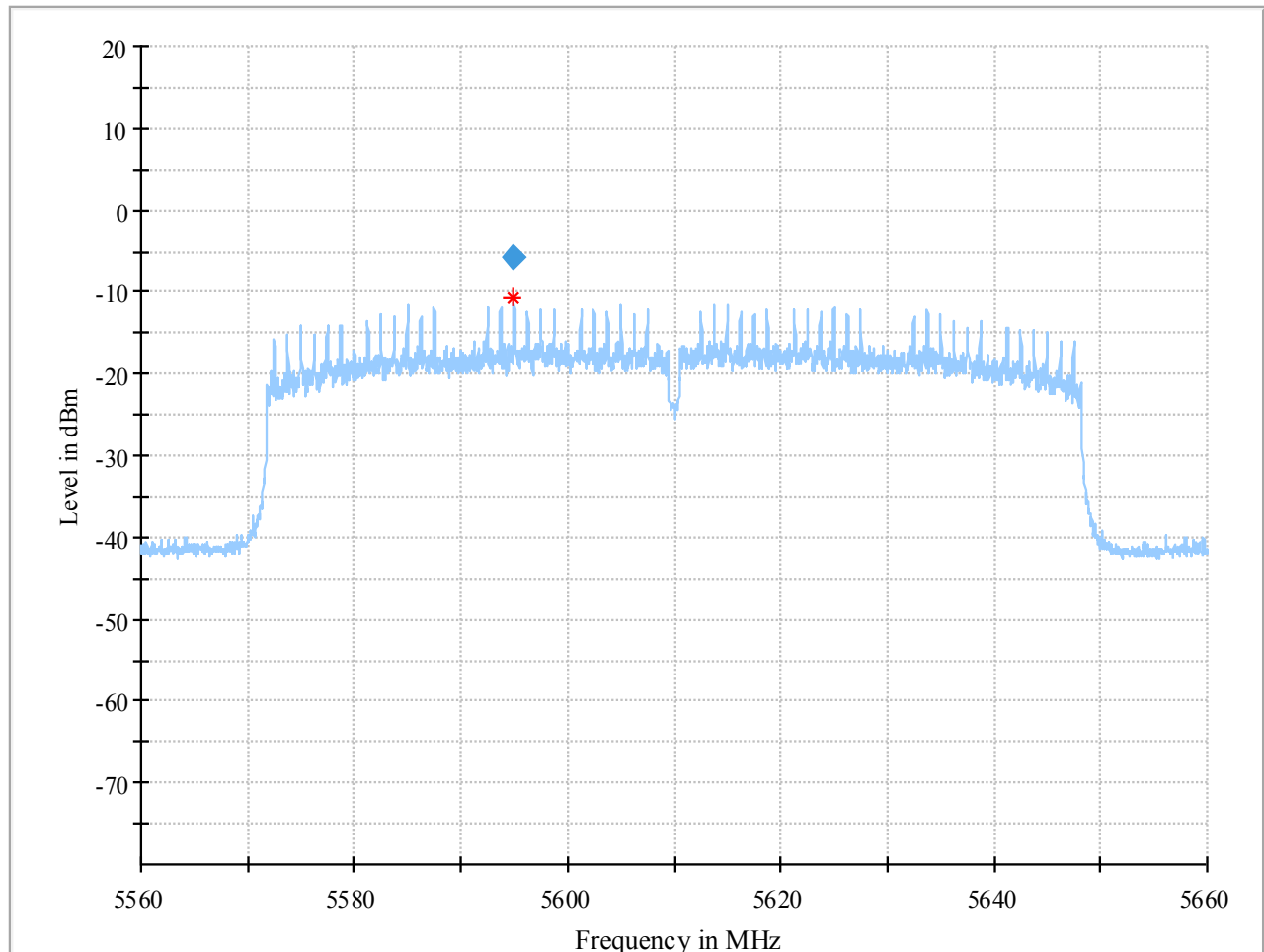
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5545.000000	-4.95	---	---	100.0	1000.000	150.0	H	271.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5545.000000	90.0	-53.9	13:18:45 - 20.08.2021

Plot 207: Mode 6, Peak EIRP, channel 122



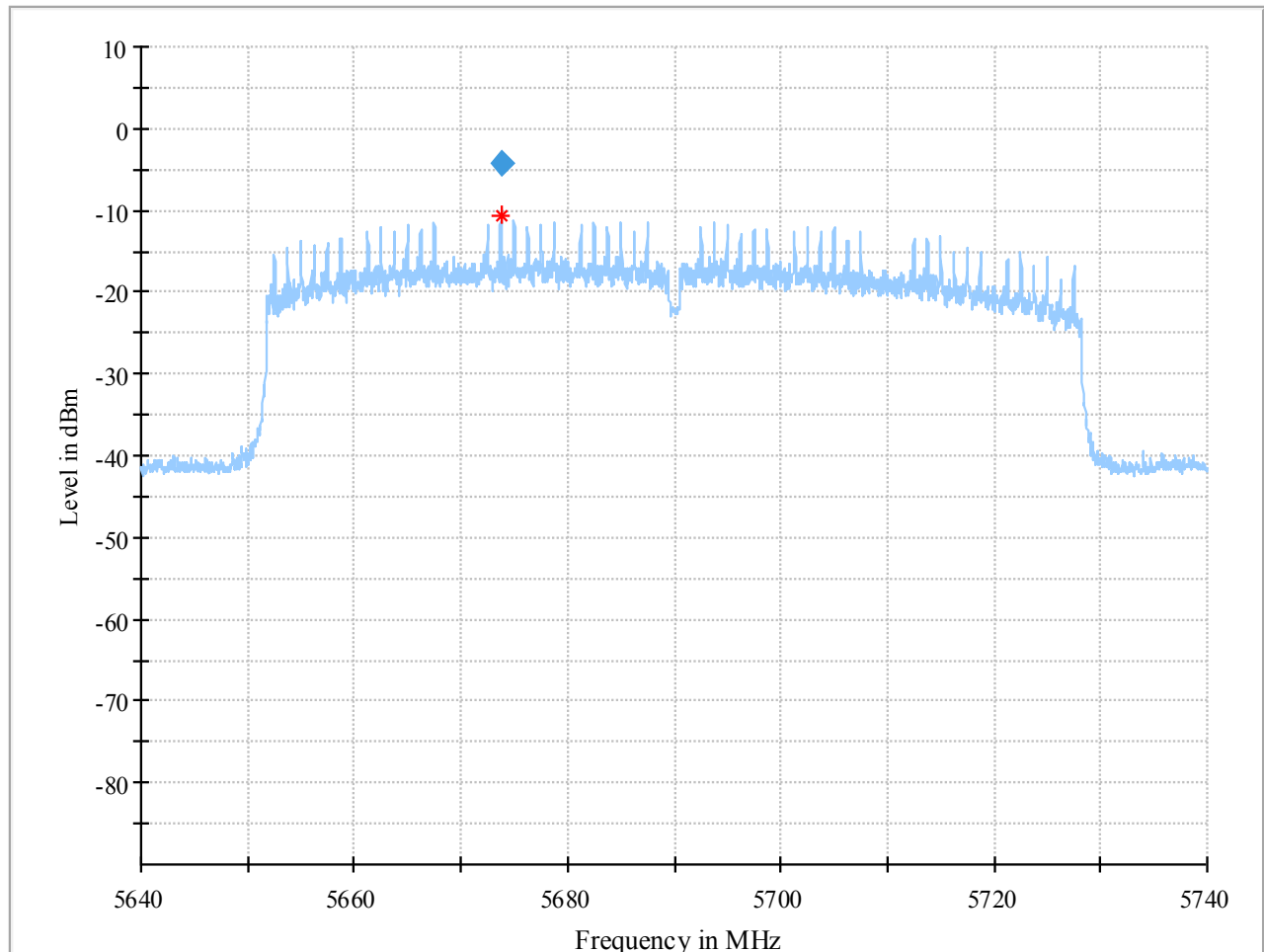
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5595.000000	-5.64	---	---	100.0	1000.000	150.0	H	272.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5595.000000	90.0	-54.0	13:35:09 - 20.08.2021

Plot 208: Mode 6, Peak EIRP, channel 138



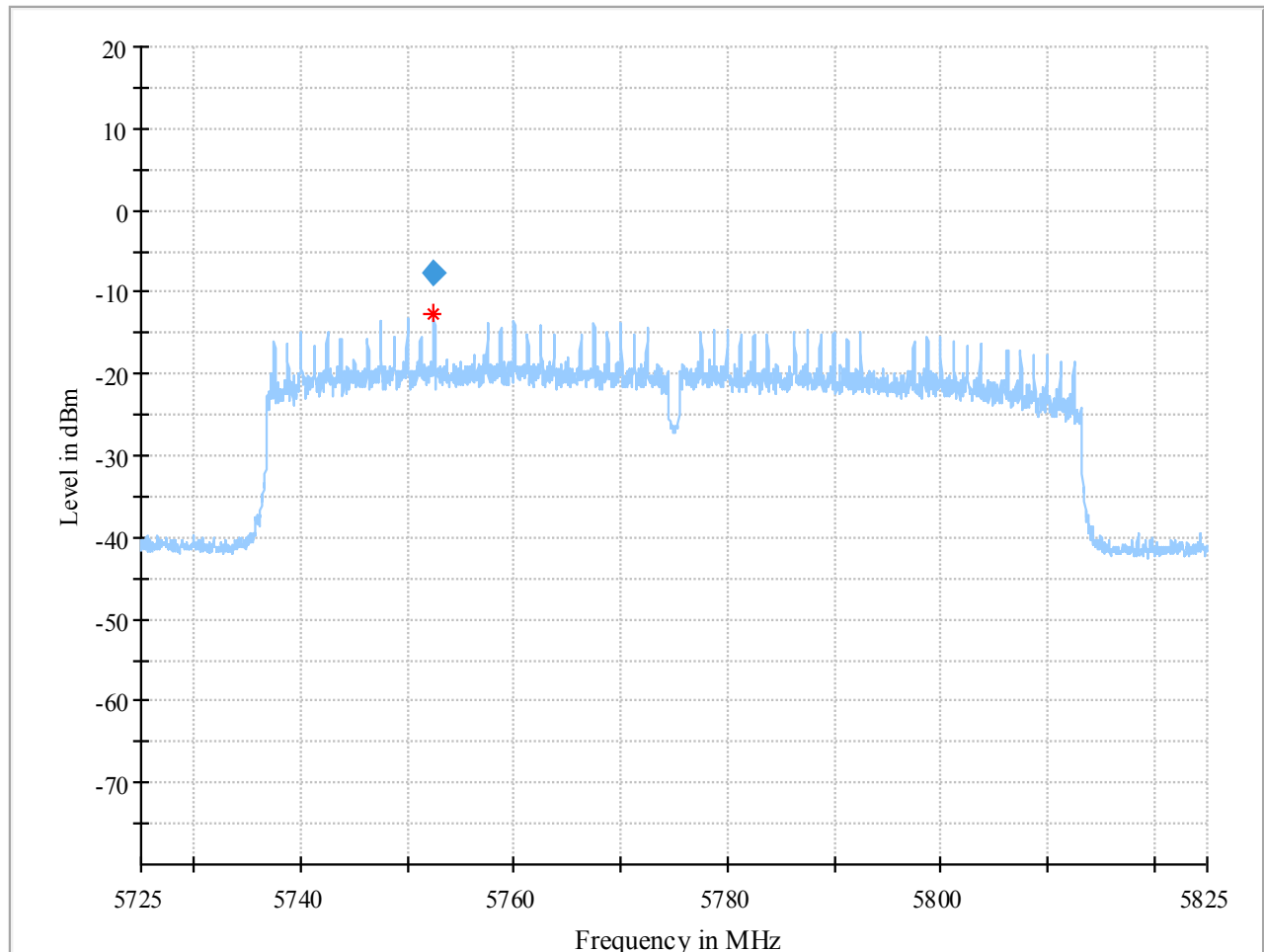
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5673.750000	-4.30	---	---	100.0	1000.000	150.0	V	3.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5673.750000	90.0	-54.1	13:50:43 - 20.08.2021

Plot 209: Mode 6, Peak EIRP, channel 155



Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5752.500000	-7.78	---	---	100.0	1000.000	150.0	H	271.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
5752.500000	90.0	-54.1	14:07:47 - 20.08.2021

7.6 Peak Power Spectral Density (PSD)

Applicability

This requirement applies to unlicensed National Information Infrastructure (U-NII) devices operating in the 5.15–5.35 GHz, 5.47–5.725 GHz and 5.725–5.85 GHz bands.

Description

The Power Spectral Density (PSD) is defined as the conducted peak power spectral density in a 3 kHz bandwidth during any time of continuous transmission.

Limits

§15.407 (a)

- For client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band
- For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.
- For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band

RSS 247 section 6.2:

- Frequency band 5470-5600 and 5650-5725 MHz:
 - The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
- Frequency band 5725-5850 MHz:
 - The power spectral density shall not exceed 30 dBm in any 500-kHz band.

Test procedure

KDB 789033 D02, F.

ANSI C63.10, 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test setup: 8.4

Test Results 20 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-1 (5150 MHz to 5250 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 1	-7.6	-7.3	-7.9	11.0
Mode 2	-8.5	-8.3	-8.7	11.0
Mode 4	-8.5	-8.4	-8.6	11.0

Test Results 20 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-2A (5250 MHz to 5350 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 1	-8.0	-7.6	-8.0	11.0
Mode 2	-8.7	-8.4	-8.9	11.0
Mode 4	-8.7	-8.3	-8.8	11.0

Test Results 20 MHz					
EUT Mode	Peak Power Spectral Density				Limit Max [dBm]
	U-NII-2C (5470 MHz to 5725 MHz)				
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	Channel 144 [dBm]	
Mode 1	-7.8	-7.6	-7.7	-8.0	11.0
Mode 2	-8.8	-8.9	-8.6	-8.9	11.0
Mode 4	-8.9	-9.0	-8.7	-8.8	11.0

Test Results 20 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-3 (5725 MHz to 5850 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 1	-10.9	-10.4	-10.4	30.0
Mode 2	-11.7	-11.2	-11.3	30.0
Mode 4	-11.8	-11.3	-11.3	30.0

Test Results 40 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-1 (5150 MHz to 5250 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 3	-13.7	--	-12.2	11.0

Test Results 40 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-2A (5250 MHz to 5350 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 3	-12.4	--	-12.2	11.0

Test Results 40 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-2C (5470 MHz to 5725 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 3	-15.5	-12.3	-12.6	11.0

Test Results 40 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-3 (5725 MHz to 5850 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 3	-15.5	--	-14.8	30.0

Test Results 80 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-1 (5150 MHz to 5250 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 6	--	2.0	--	11.0

Test Results 80 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-2A (5250 MHz to 5350 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 6	--	2.0	--	11.0

Test Results 80 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-2C (5470 MHz to 5725 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 6	1.4	1.6	2.0	11.0

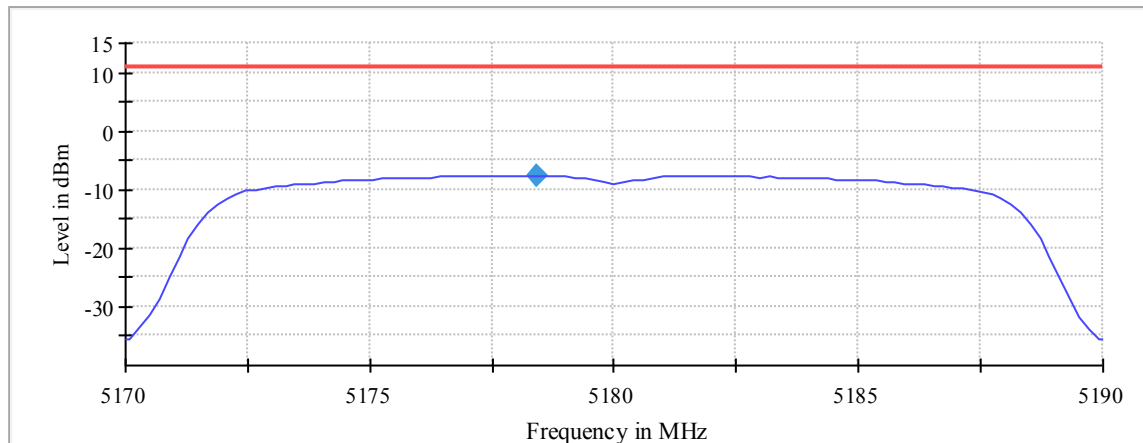
Test Results 80 MHz				
EUT Mode	Peak Power Spectral Density			Limit Max [dBm]
	U-NII-3 (5725 MHz to 5850 MHz)			
	low channel [dBm]	mid channel [dBm]	high channel [dBm]	
Mode 6	--	2.1	--	30.0

Comment:	---
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Verdict	- PASS -	see next plots
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Plot 210: Mode 1, U-NII-1, Peak PSD, low channel

Power Spectral Density (SA-1)

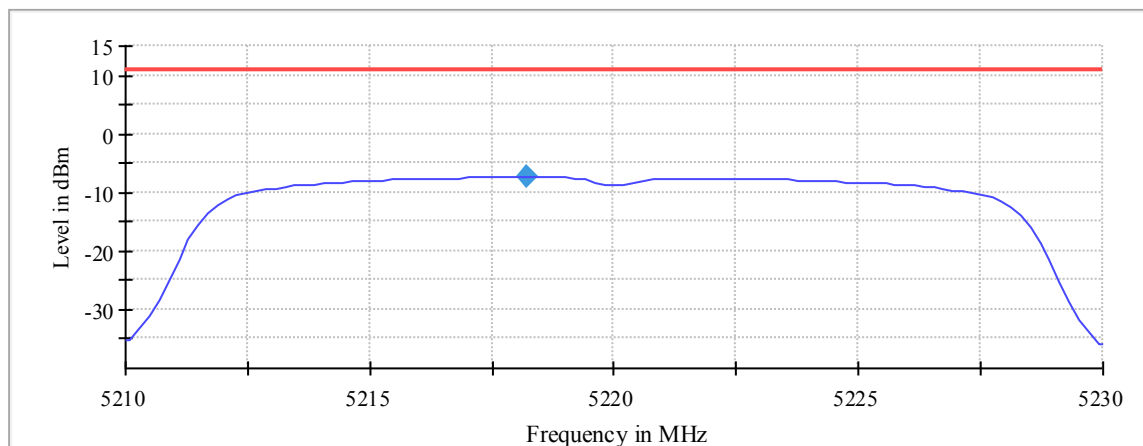


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5178.415842	-7.640	11.0	PASS

Plot 211: Mode 1, U-NII-1, Peak PSD, mid channel

Power Spectral Density (SA-1)

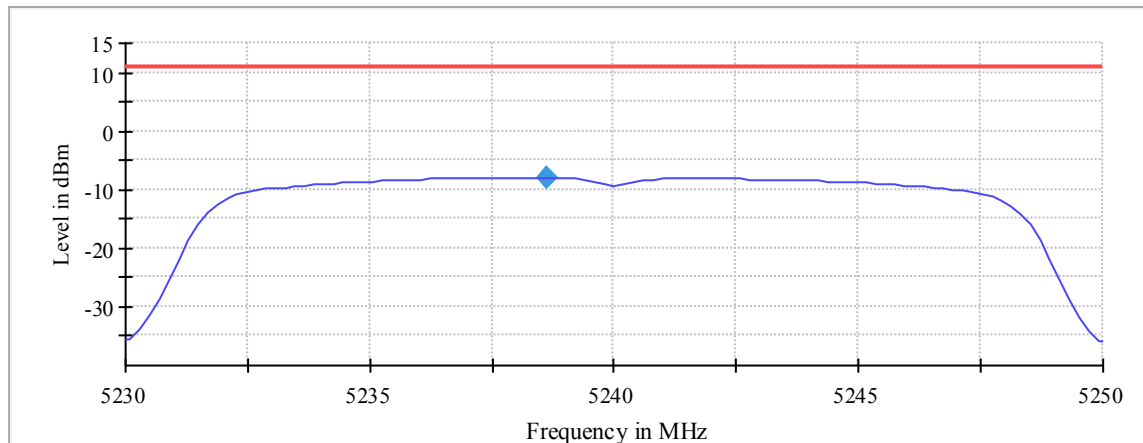


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5220.000000	5218.217822	-7.257	11.0	PASS

Plot 212: Mode 1, U-NII-1, Peak PSD, high channel

Power Spectral Density (SA-1)

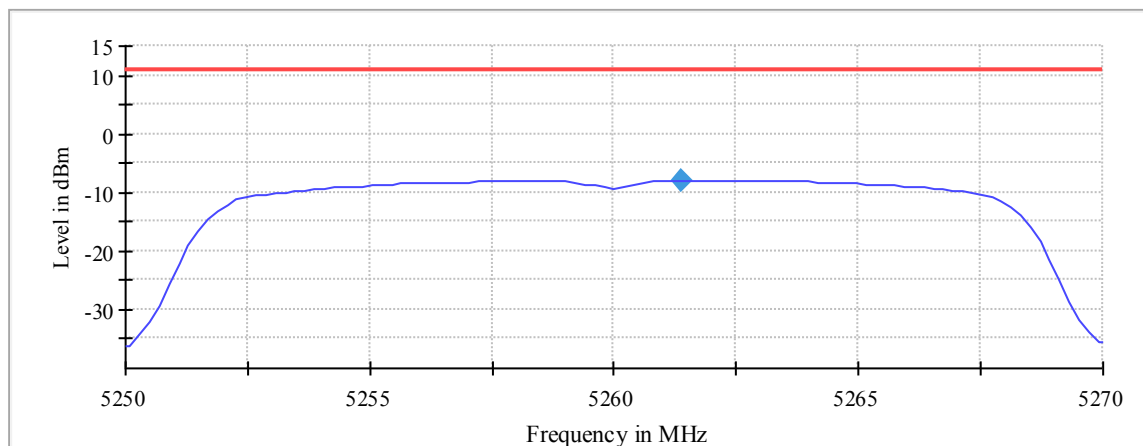


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5238.613861	-7.923	11.0	PASS

Plot 213: Mode 1, U-NII-2A, Peak PSD, low channel

Power Spectral Density (SA-1)

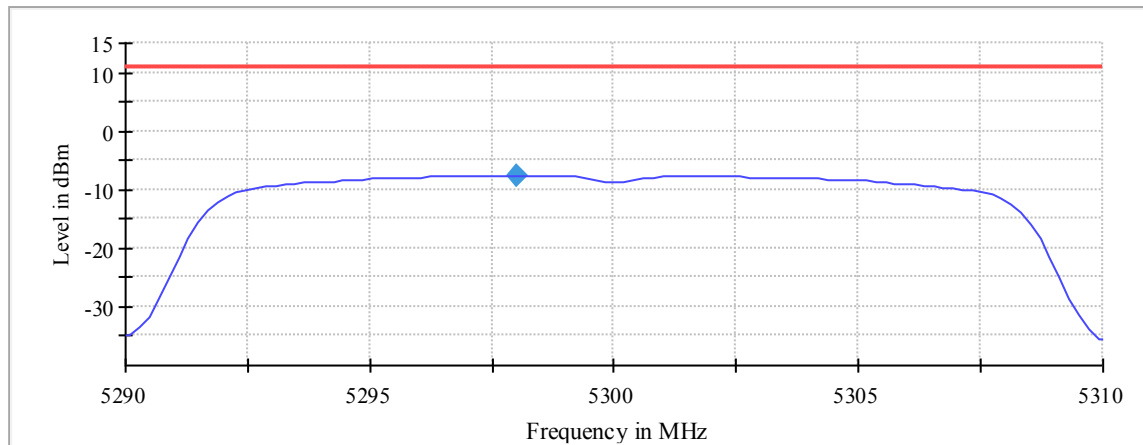


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5260.000000	5261.386139	-8.002	11.0	PASS

Plot 214: Mode 1, U-NII-2A, Peak PSD, mid channel

Power Spectral Density (SA-1)

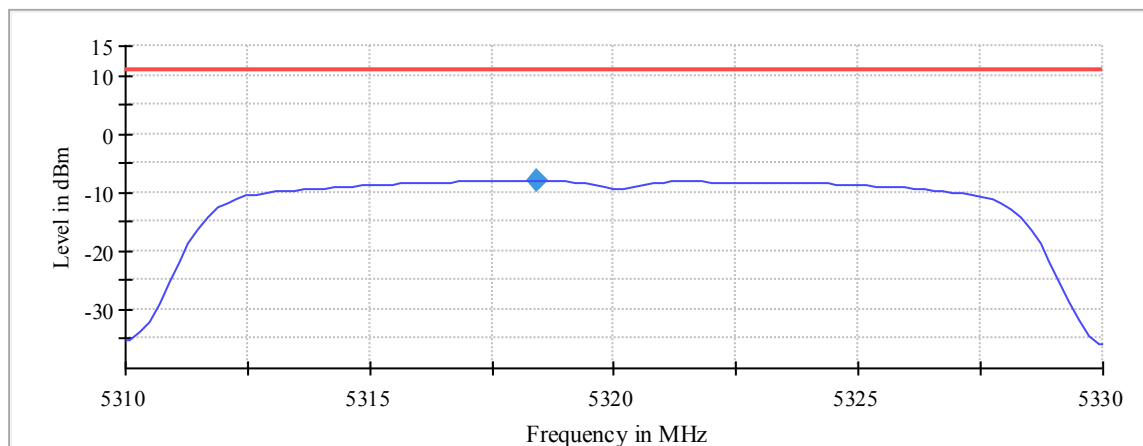


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5300.000000	5298.019802	-7.558	11.0	PASS

Plot 215: Mode 1, U-NII-2A, Peak PSD, high channel

Power Spectral Density (SA-1)

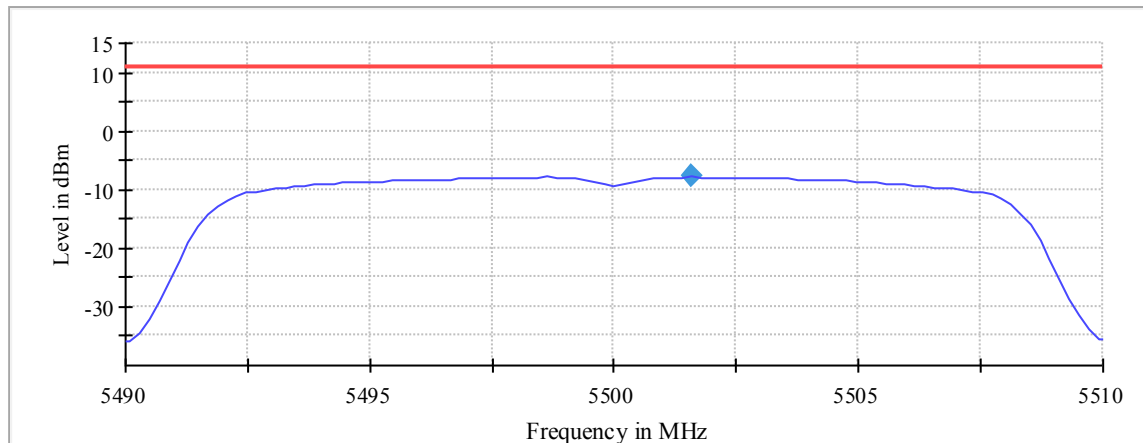


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5320.000000	5318.415842	-7.977	11.0	PASS

Plot 216: Mode 1, U-NII-2C, Peak PSD, low channel

Power Spectral Density (SA-1)

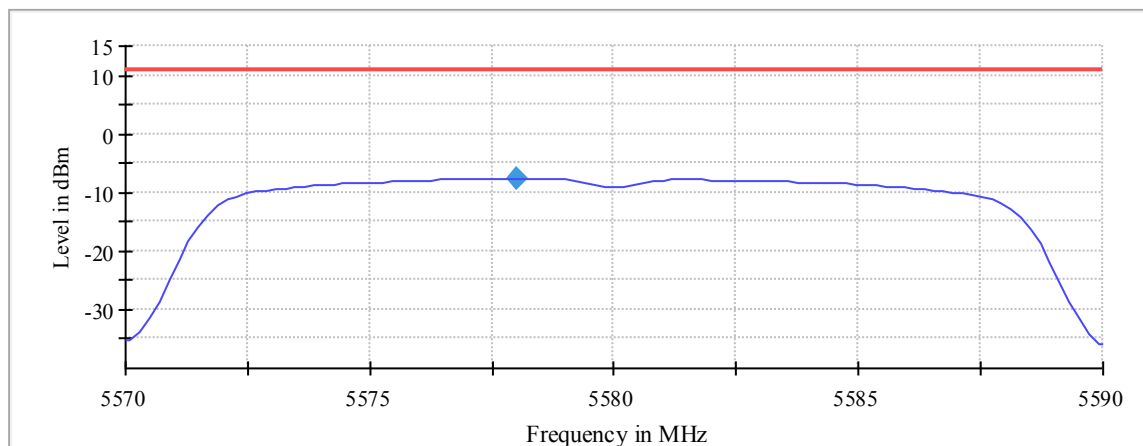


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5500.000000	5501.584158	-7.819	11.0	PASS

Plot 217: Mode 1, U-NII-2C, Peak PSD, mid channel

Power Spectral Density (SA-1)

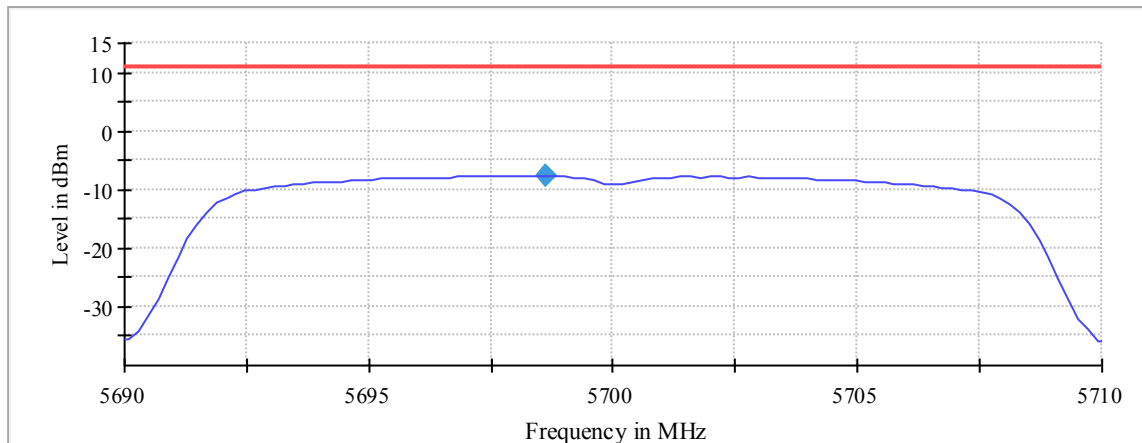


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5580.000000	5578.019802	-7.637	11.0	PASS

Plot 218: Mode 1, U-NII-2C, Peak PSD, high channel

Power Spectral Density (SA-1)

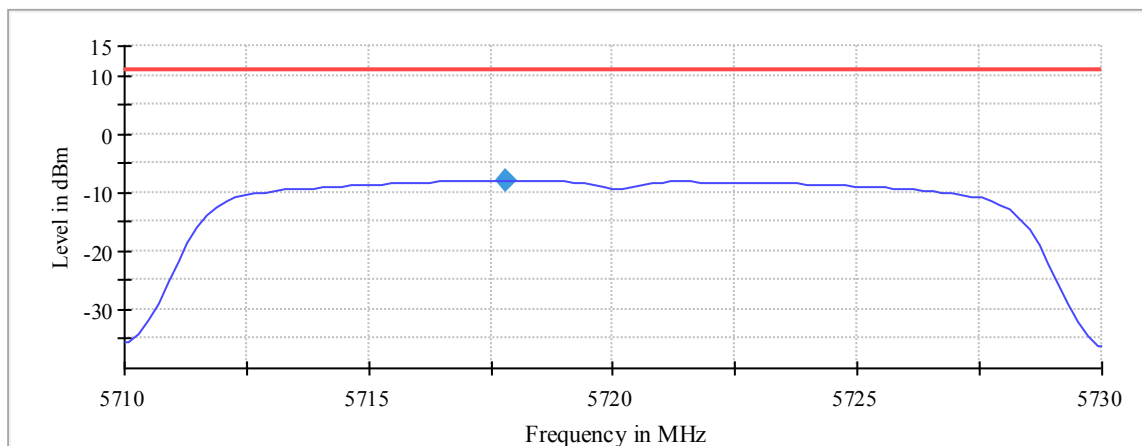


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5700.000000	5698.613861	-7.675	11.0	PASS

Plot 219: Mode 1, U-NII-2C, Peak PSD, channel 144

Power Spectral Density (SA-1)

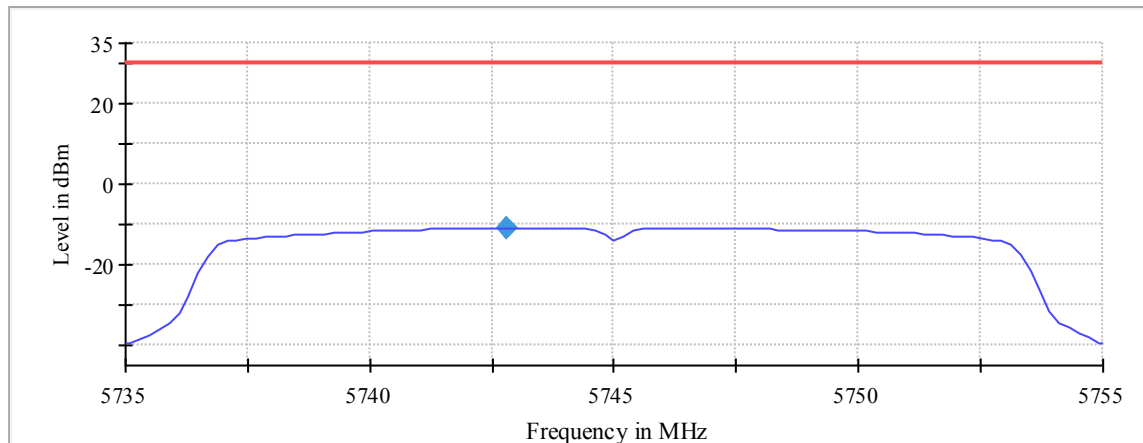


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5720.000000	5717.821782	-7.955	11.0	PASS

Plot 220: Mode 1, U-NII-3, Peak PSD, low channel

Power Spectral Density (SA-1)

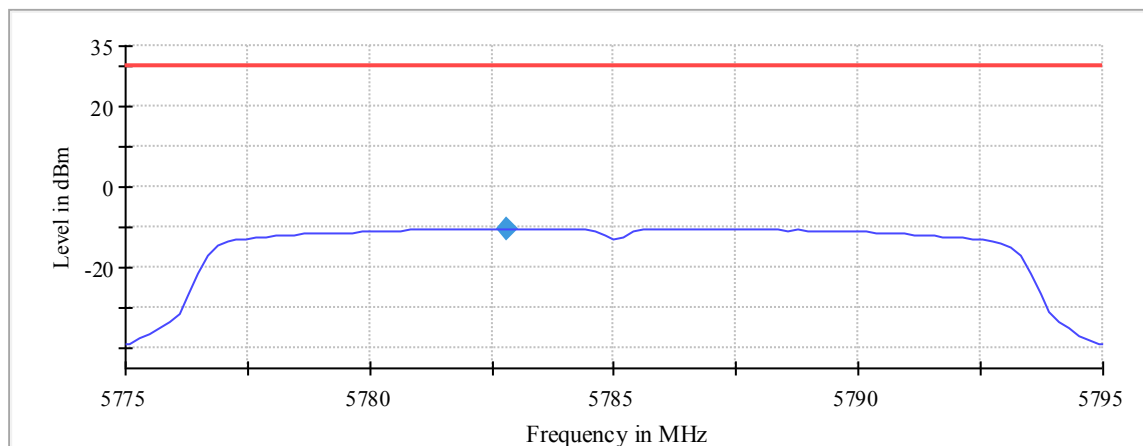


Limit PSD Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5745.000000	5742.821782	-10.919	30.0	PASS

Plot 221: Mode 1, U-NII-3, Peak PSD, mid channel

Power Spectral Density (SA-1)

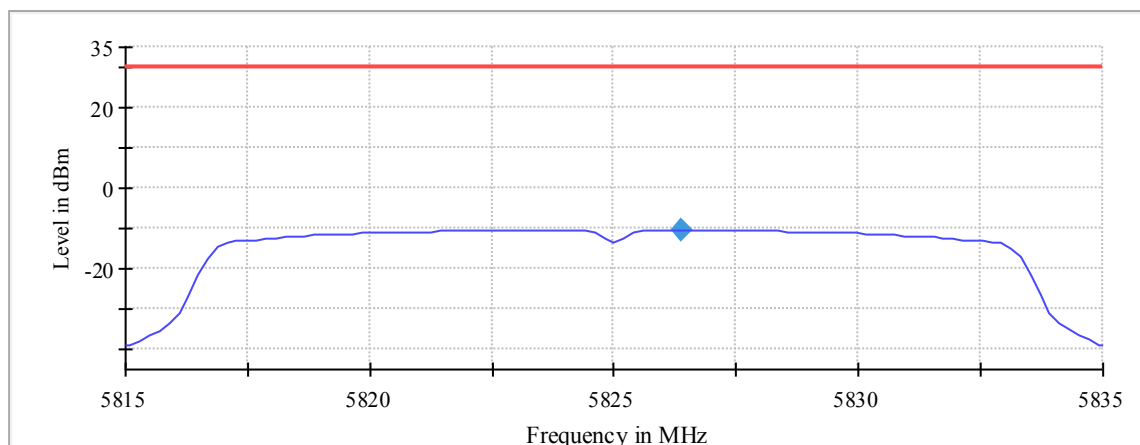


Limit PSD Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5785.000000	5782.821782	-10.356	30.0	PASS

Plot 222: Mode 1, U-NII-3, Peak PSD, high channel

Power Spectral Density (SA-1)

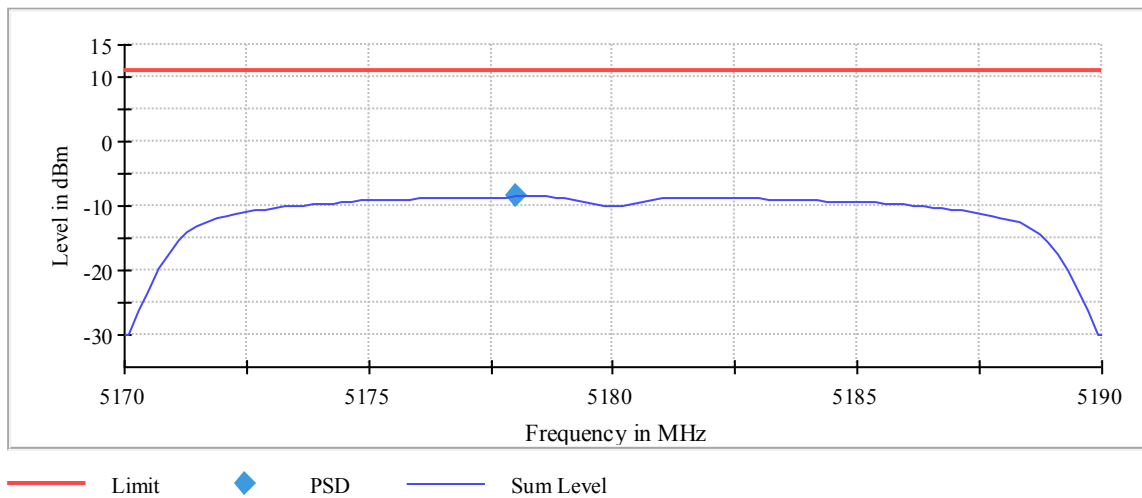


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5825.000000	5826.386139	-10.404	30.0	PASS

Plot 223: Mode 2, U-NII-1, Peak PSD, low channel

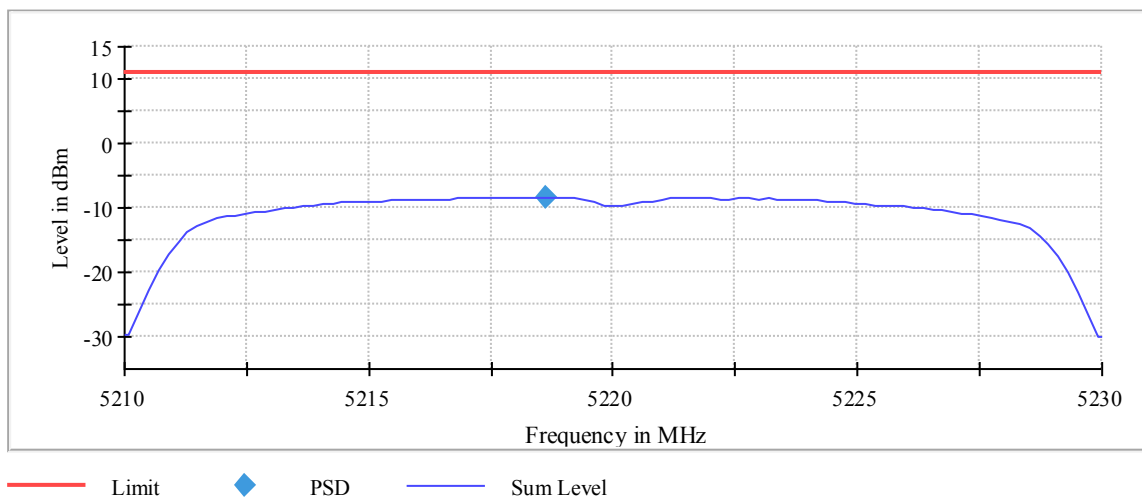
Power Spectral Density (SA-1)



DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5178.019802	-8.539	11.0	PASS

Plot 224: Mode 2, U-NII-1, Peak PSD, mid channel

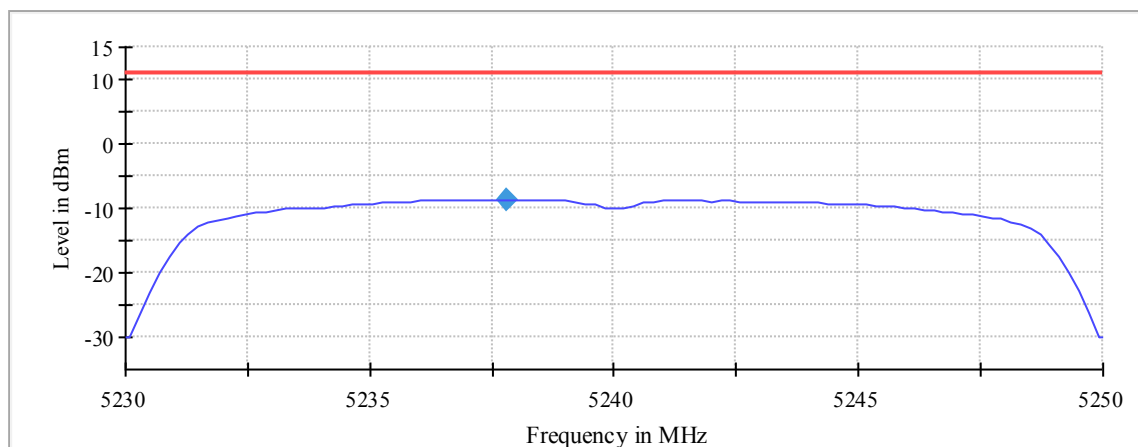
Power Spectral Density (SA-1)



DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5220.000000	5218.613861	-8.287	11.0	PASS

Plot 225: Mode 2, U-NII-1, Peak PSD, high channel

Power Spectral Density (SA-1)

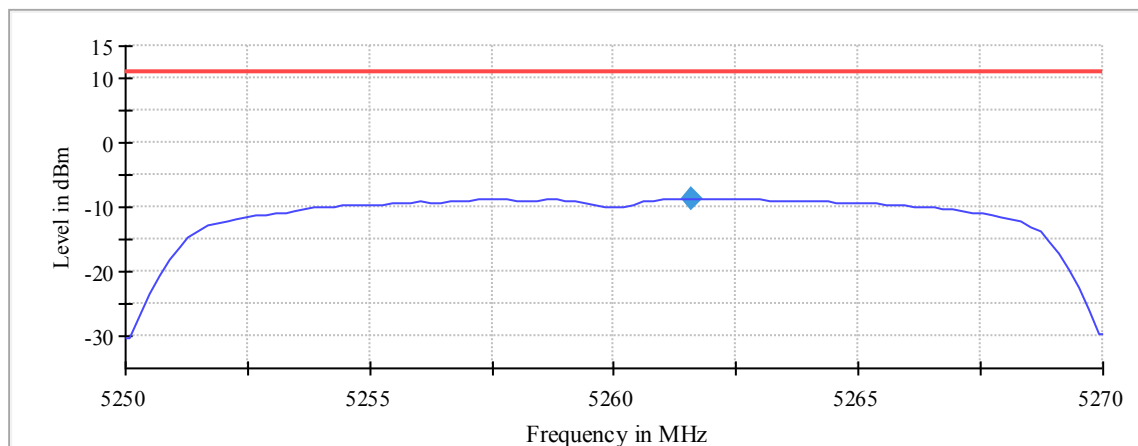


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5237.821782	-8.676	11.0	PASS

Plot 226: Mode 2, U-NII-2A, Peak PSD, low channel

Power Spectral Density (SA-1)

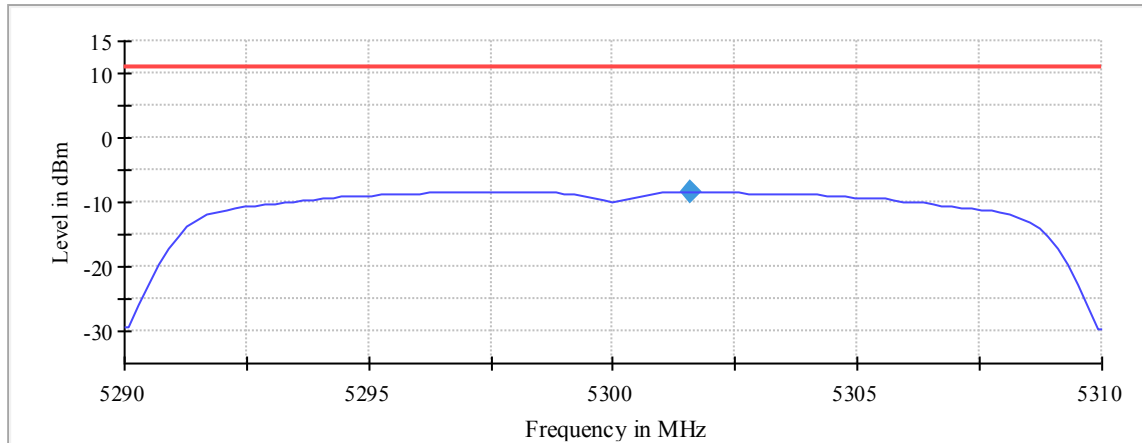


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5260.000000	5261.584158	-8.691	11.0	PASS

Plot 227: Mode 2, U-NII-2A, Peak PSD, mid channel

Power Spectral Density (SA-1)

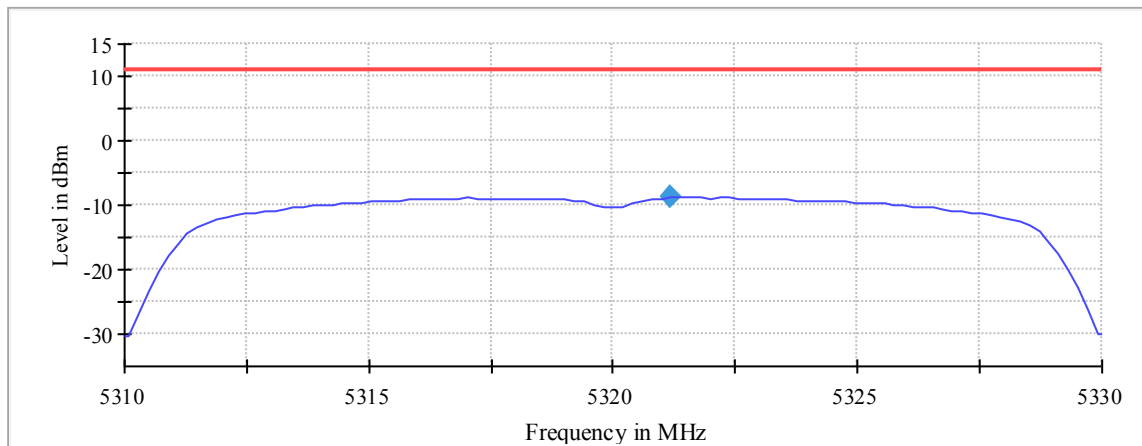


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5300.000000	5301.584158	-8.412	11.0	PASS

Plot 228: Mode 2, U-NII-2A, Peak PSD, high channel

Power Spectral Density (SA-1)

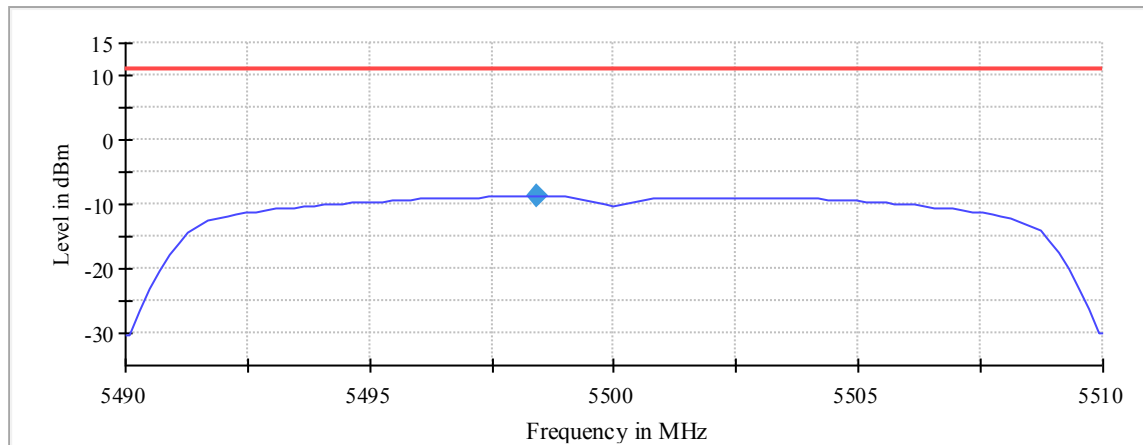


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5320.000000	5321.188119	-8.870	11.0	PASS

Plot 229: Mode 2, U-NII-2C, Peak PSD, low channel

Power Spectral Density (SA-1)

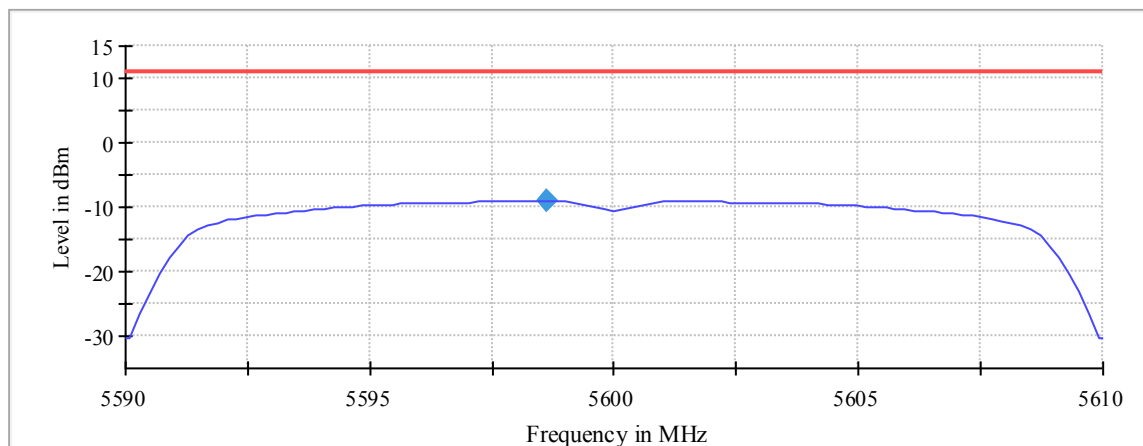


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5500.000000	5498.415842	-8.766	11.0	PASS

Plot 230: Mode 2, U-NII-2C, Peak PSD, mid channel

Power Spectral Density (SA-1)

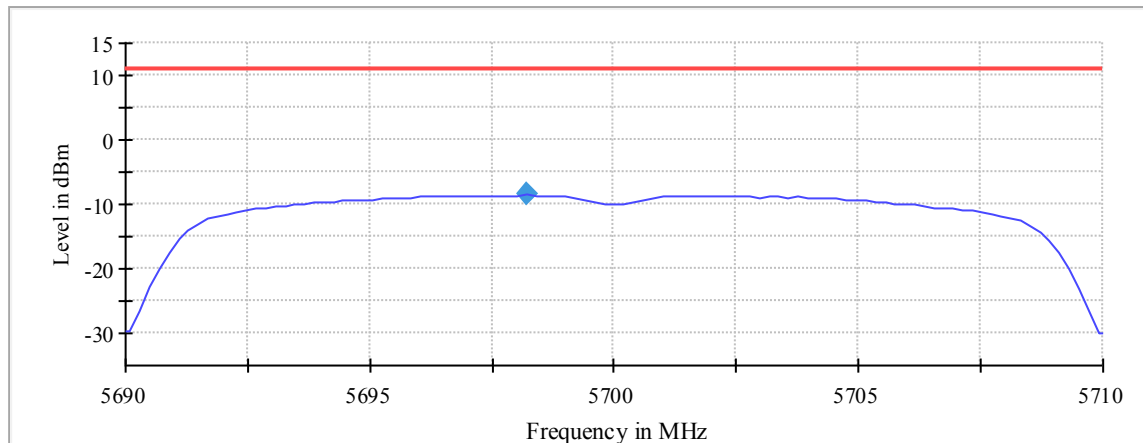


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5600.000000	5598.613861	-8.933	11.0	PASS

Plot 231: Mode 2, U-NII-2C, Peak PSD, high channel

Power Spectral Density (SA-1)

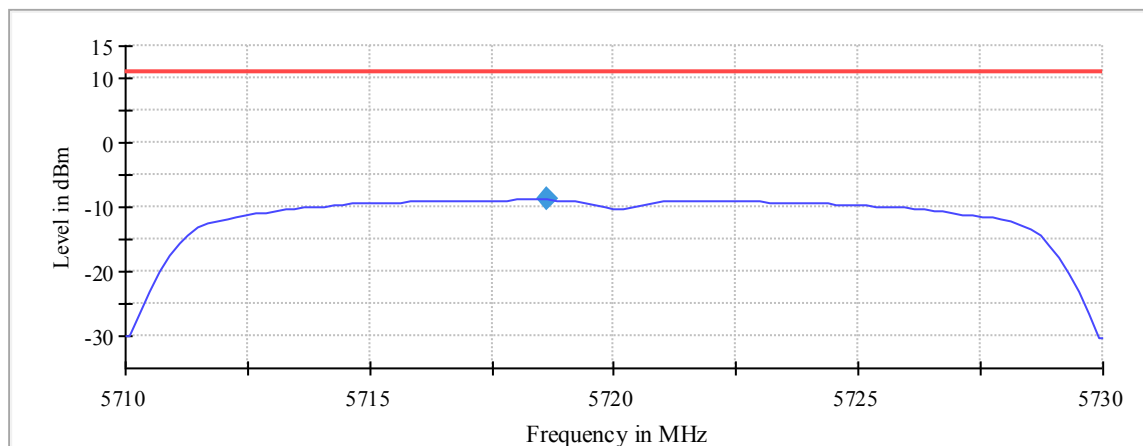


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5700.000000	5698.217822	-8.569	11.0	PASS

Plot 232: Mode 2, U-NII-2C, Peak PSD, channel 144

Power Spectral Density (SA-1)

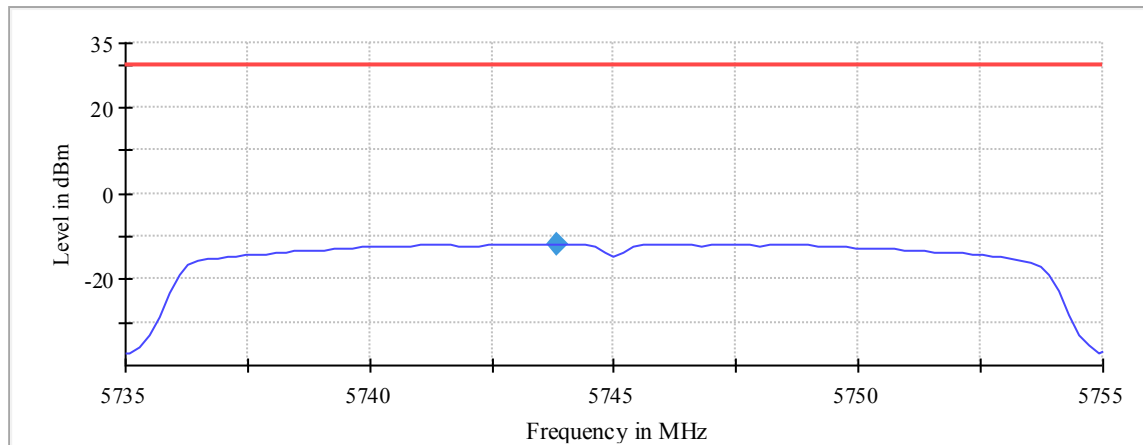


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5720.000000	5718.613861	-8.853	11.0	PASS

Plot 233: Mode 2, U-NII-3, Peak PSD, low channel

Power Spectral Density (SA-1)

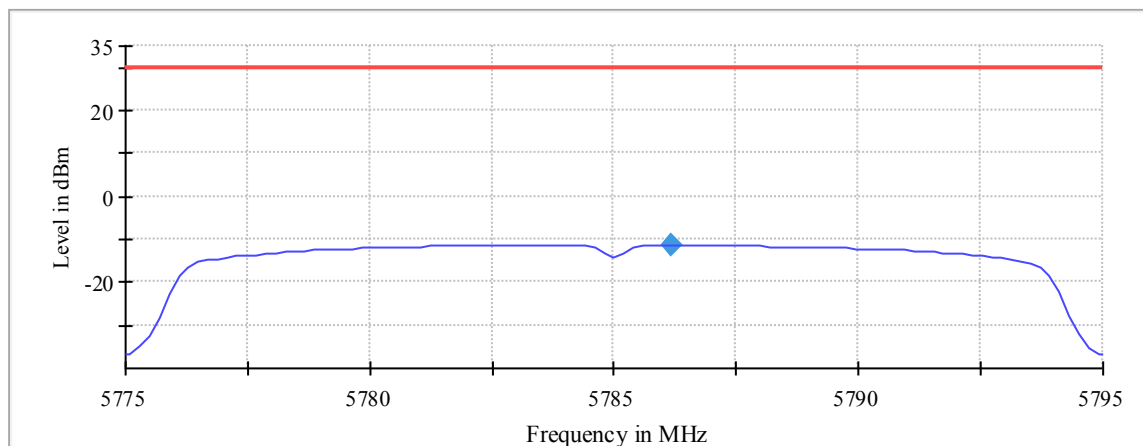


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5745.000000	5743.811881	-11.665	30.0	PASS

Plot 234: Mode 2, U-NII-3, Peak PSD, mid channel

Power Spectral Density (SA-1)

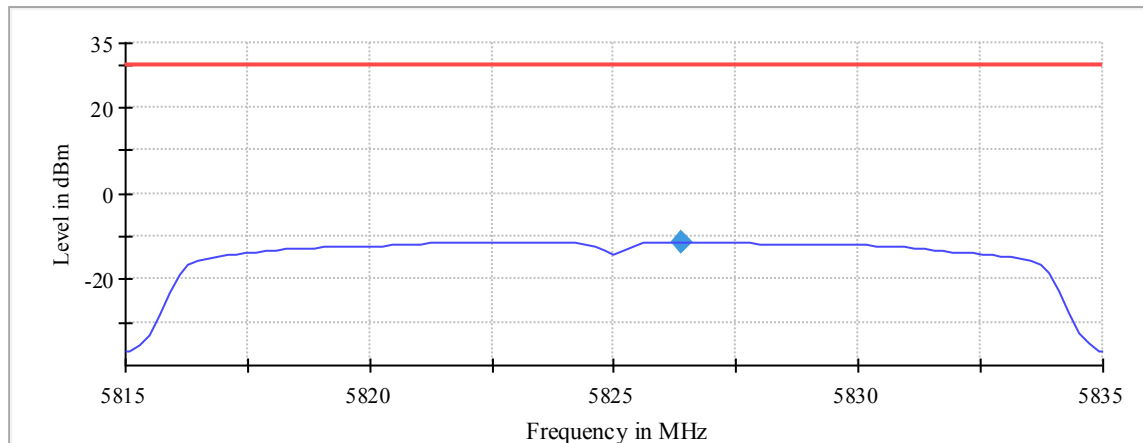


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5785.000000	5786.188119	-11.245	30.0	PASS

Plot 235: Mode 2, U-NII-3, Peak PSD, high channel

Power Spectral Density (SA-1)

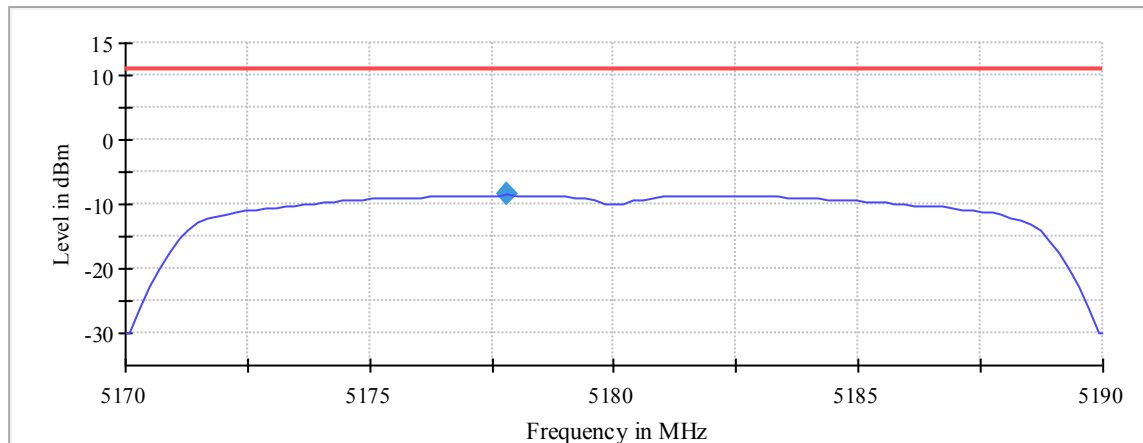


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5825.000000	5826.386139	-11.331	30.0	PASS

Plot 236: Mode 4, U-NII-1, Peak PSD, low channel

Power Spectral Density (SA-1)

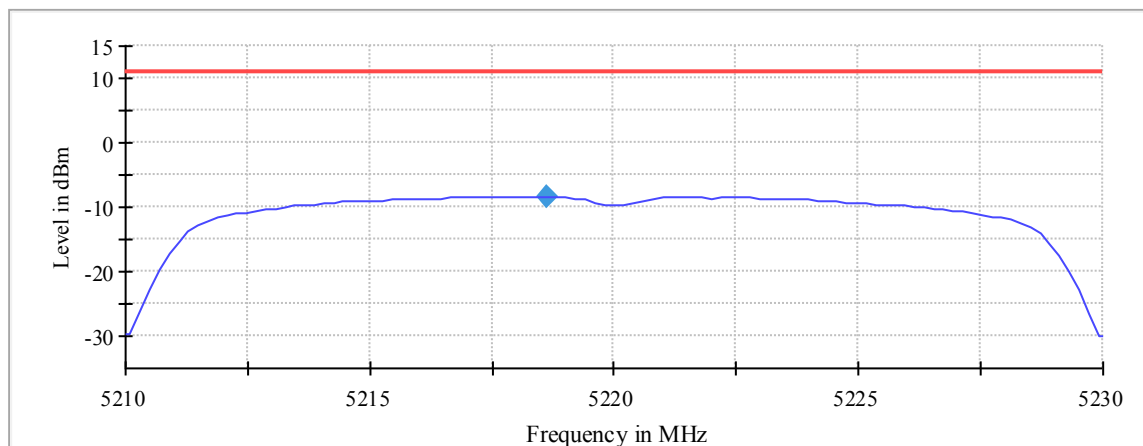


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5177.821782	-8.549	11.0	PASS

Plot 237: Mode 4, U-NII-1, Peak PSD, mid channel

Power Spectral Density (SA-1)

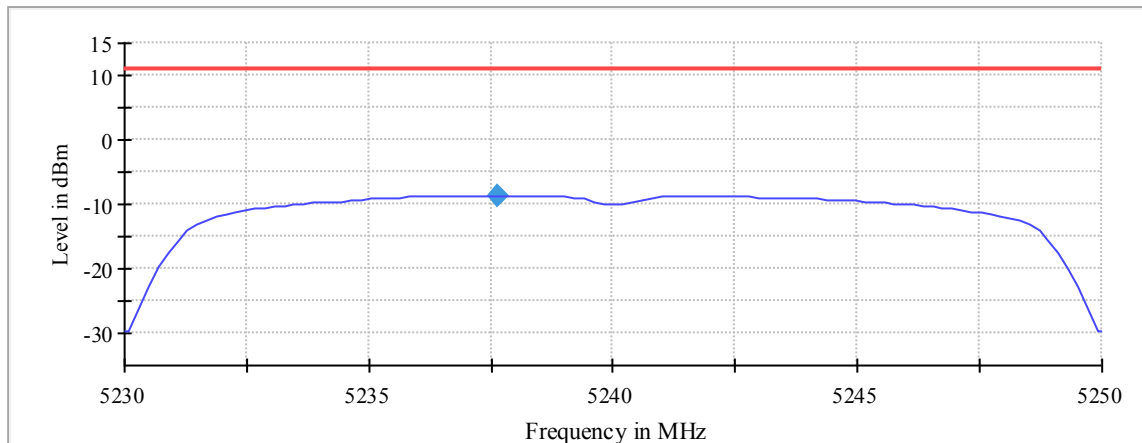


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5220.000000	5218.613861	-8.368	11.0	PASS

Plot 238: Mode 4, U-NII-1, Peak PSD, high channel

Power Spectral Density (SA-1)

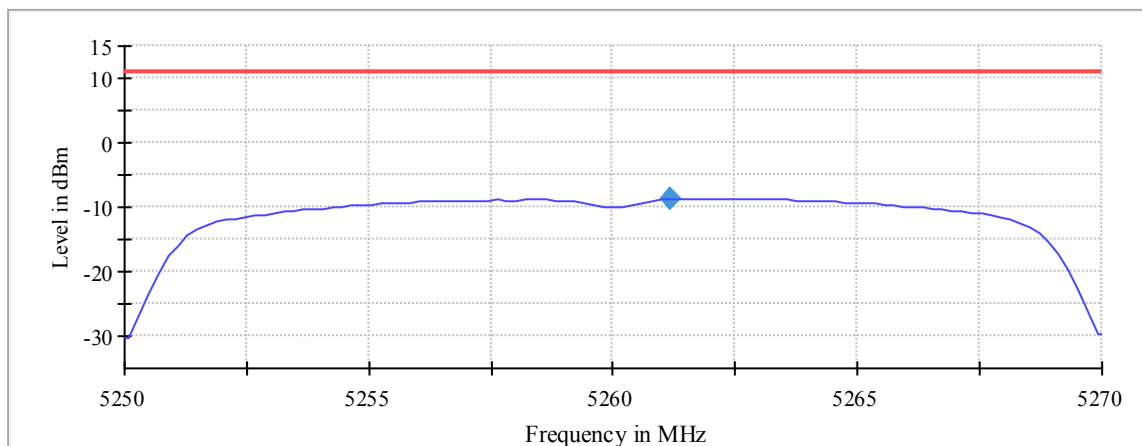


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5237.623762	-8.620	11.0	PASS

Plot 239: Mode 4, U-NII-2A, Peak PSD, low channel

Power Spectral Density (SA-1)

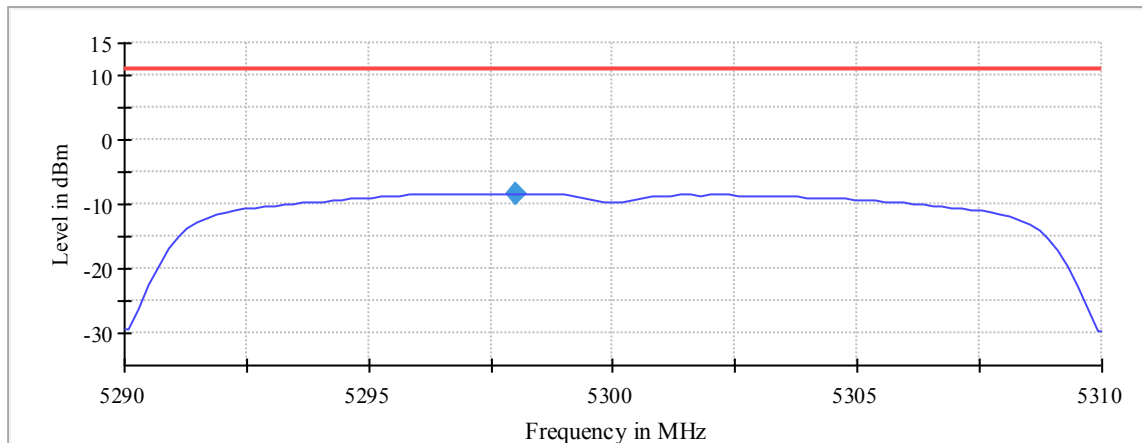


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5260.000000	5261.188119	-8.678	11.0	PASS

Plot 240: Mode 4, U-NII-2A, Peak PSD, mid channel

Power Spectral Density (SA-1)

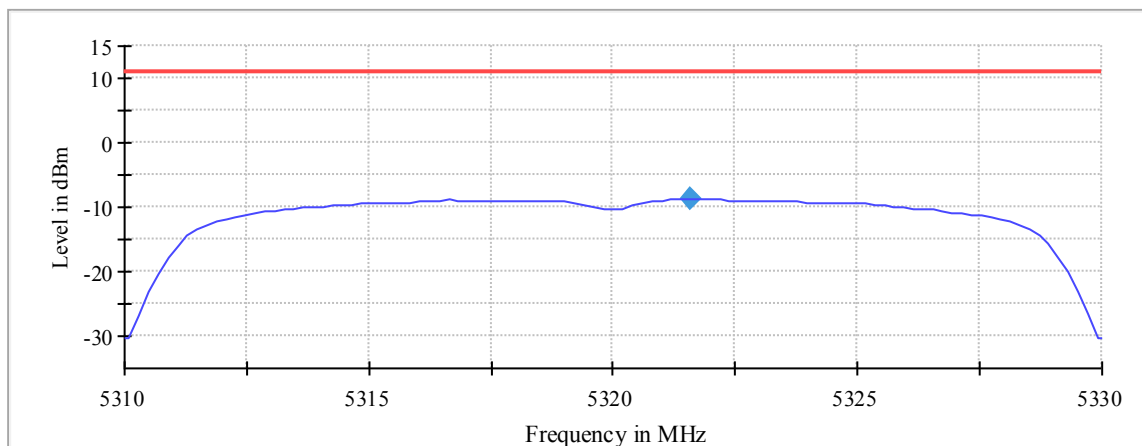


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5300.000000	5298.019802	-8.338	11.0	PASS

Plot 241: Mode 4, U-NII-2A, Peak PSD, high channel

Power Spectral Density (SA-1)

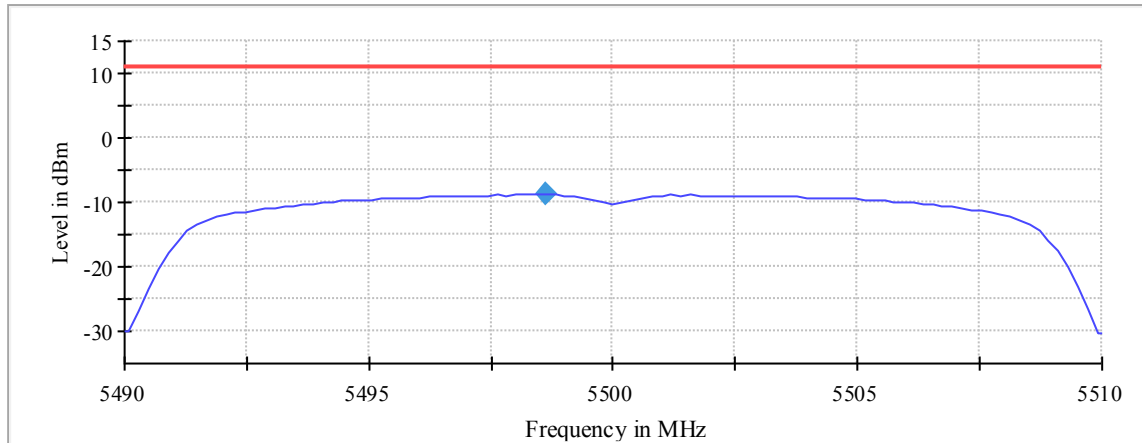


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5320.000000	5321.584158	-8.768	11.0	PASS

Plot 242: Mode 4, U-NII-2C, Peak PSD, low channel

Power Spectral Density (SA-1)

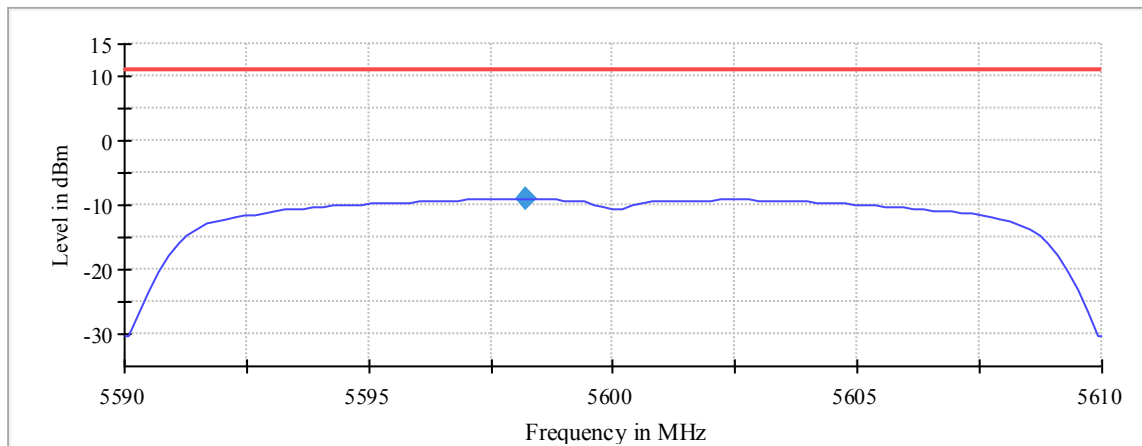


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5500.000000	5498.613861	-8.852	11.0	PASS

Plot 243: Mode 4, U-NII-2C, Peak PSD, mid channel

Power Spectral Density (SA-1)

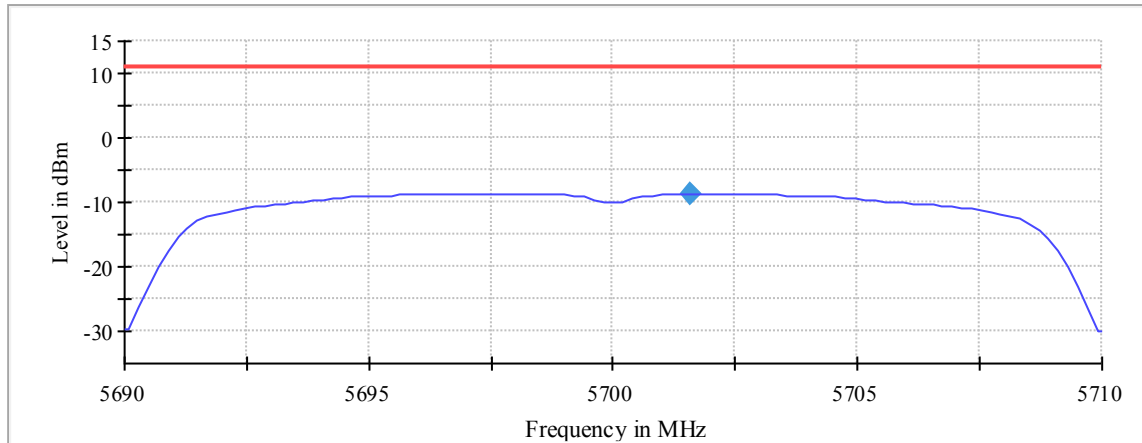


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5600.000000	5598.217822	-8.982	11.0	PASS

Plot 244: Mode 4, U-NII-2C, Peak PSD, high channel

Power Spectral Density (SA-1)

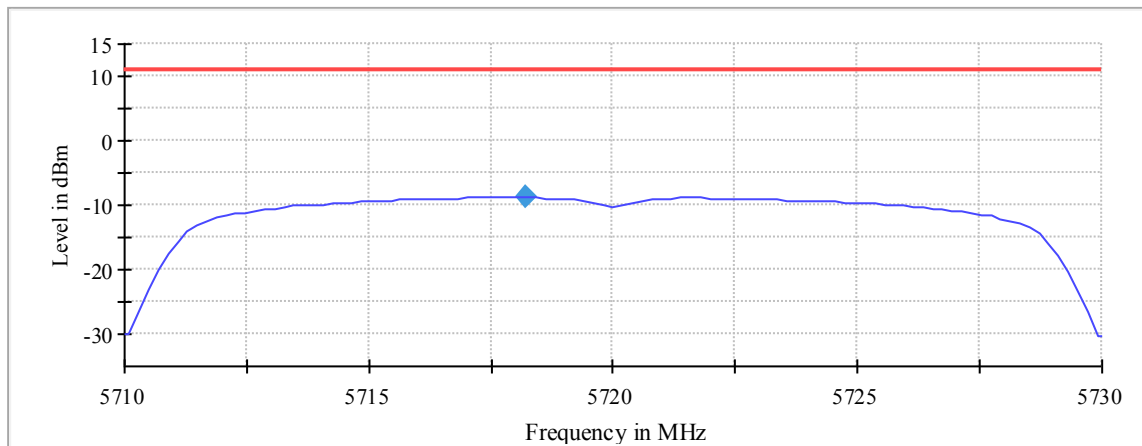


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5700.000000	5701.584158	-8.673	11.0	PASS

Plot 245: Mode 4, U-NII-2C, Peak PSD, channel 144

Power Spectral Density (SA-1)

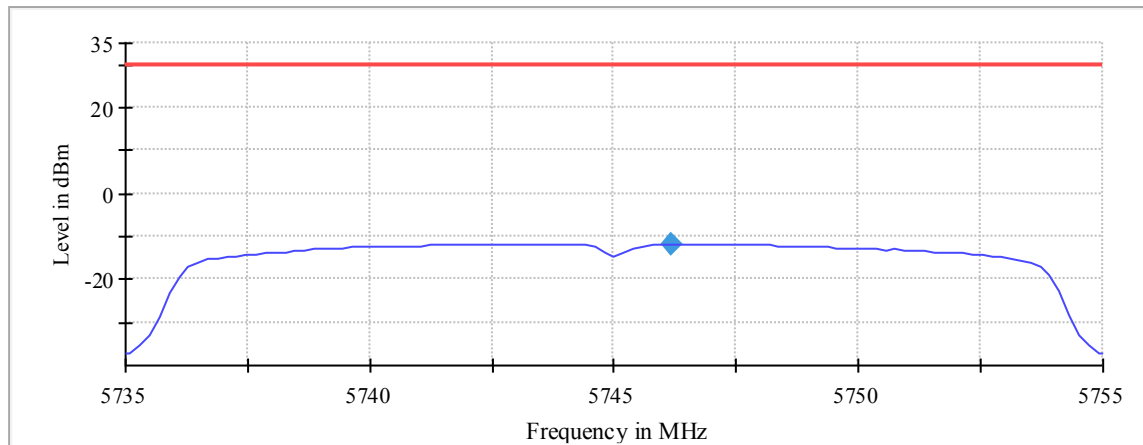


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5720.000000	5718.217822	-8.831	11.0	PASS

Plot 246: Mode 4, U-NII-3, Peak PSD, low channel

Power Spectral Density (SA-1)

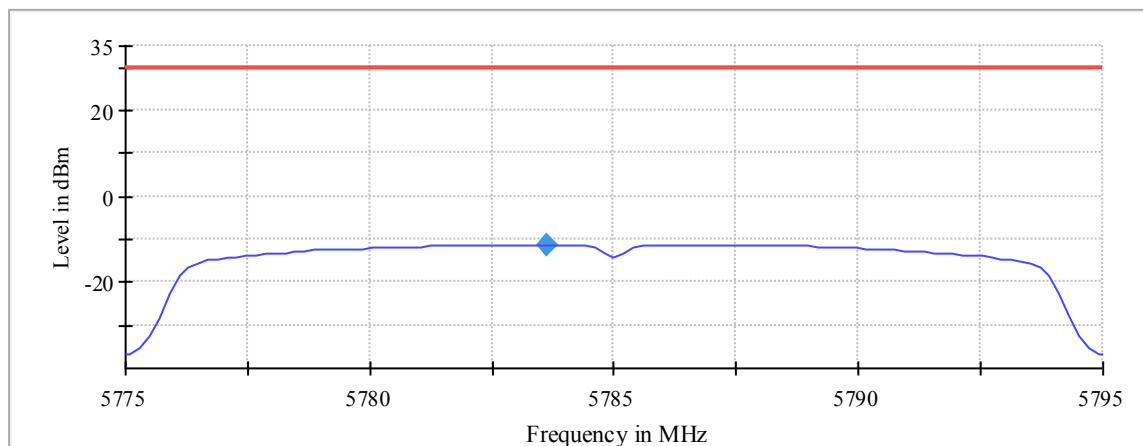


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5745.000000	5746.188119	-11.763	30.0	PASS

Plot 247: Mode 4, U-NII-3, Peak PSD, mid channel

Power Spectral Density (SA-1)

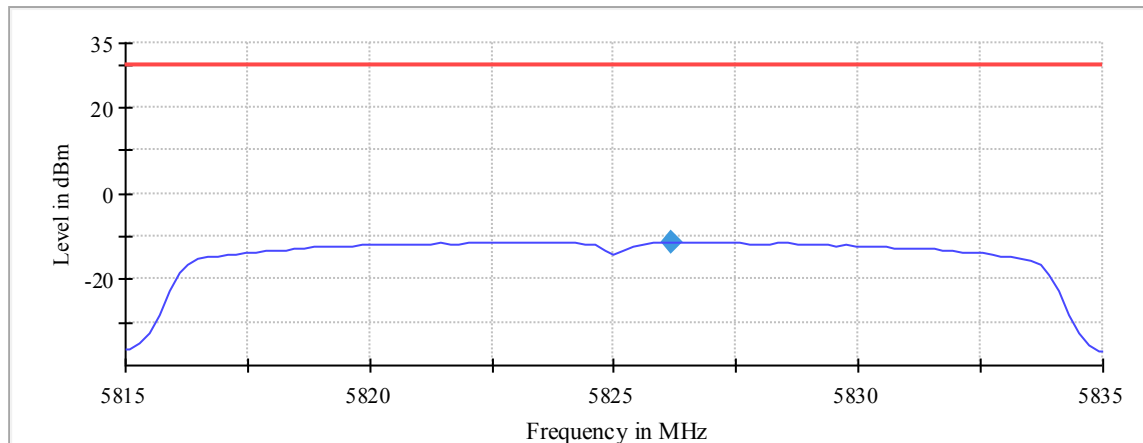


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5785.000000	5783.613861	-11.291	30.0	PASS

Plot 248: Mode 4, U-NII-3, Peak PSD, high channel

Power Spectral Density (SA-1)

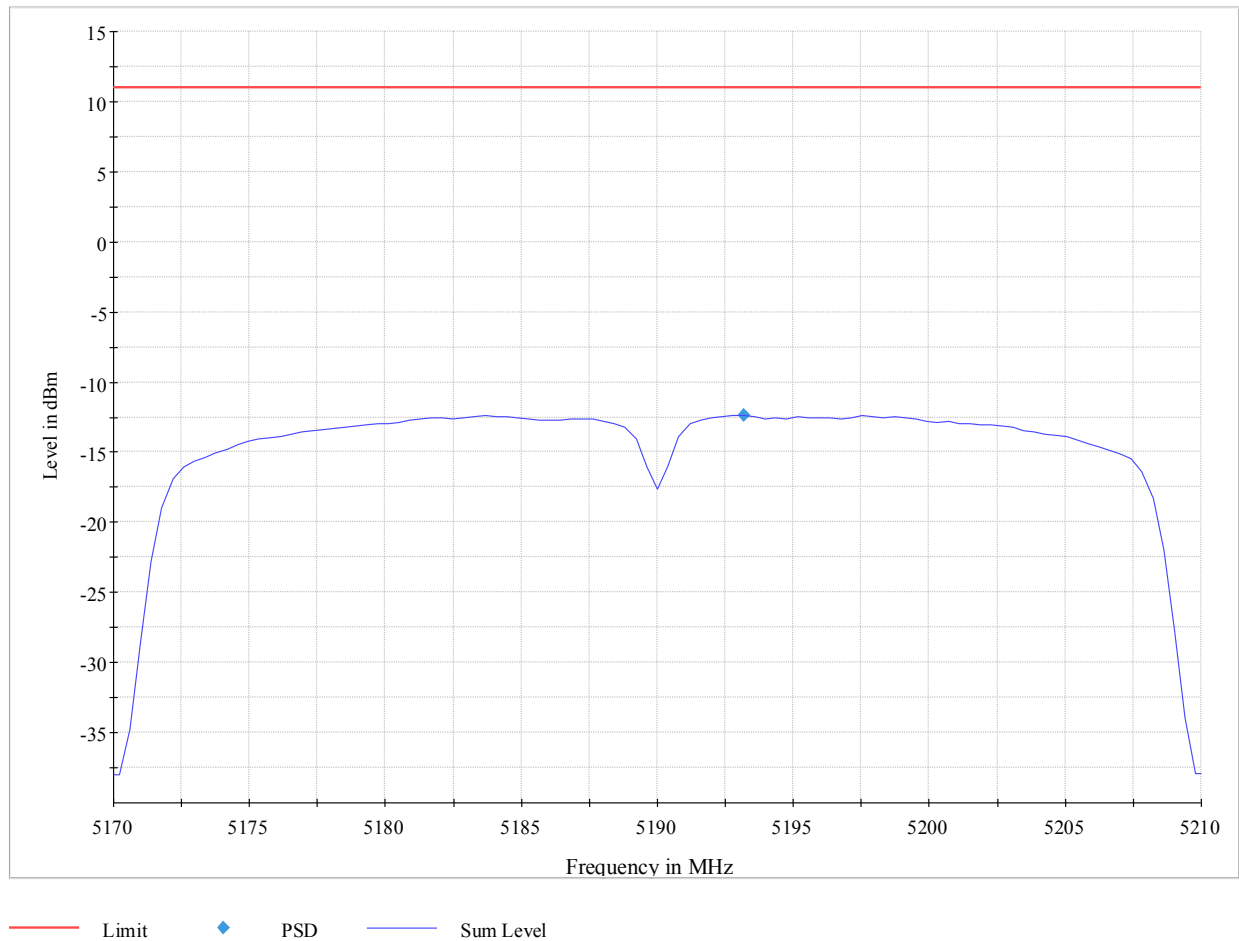


— Limit ◆ PSD — Sum Level

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5825.000000	5826.188119	-11.333	30.0	PASS

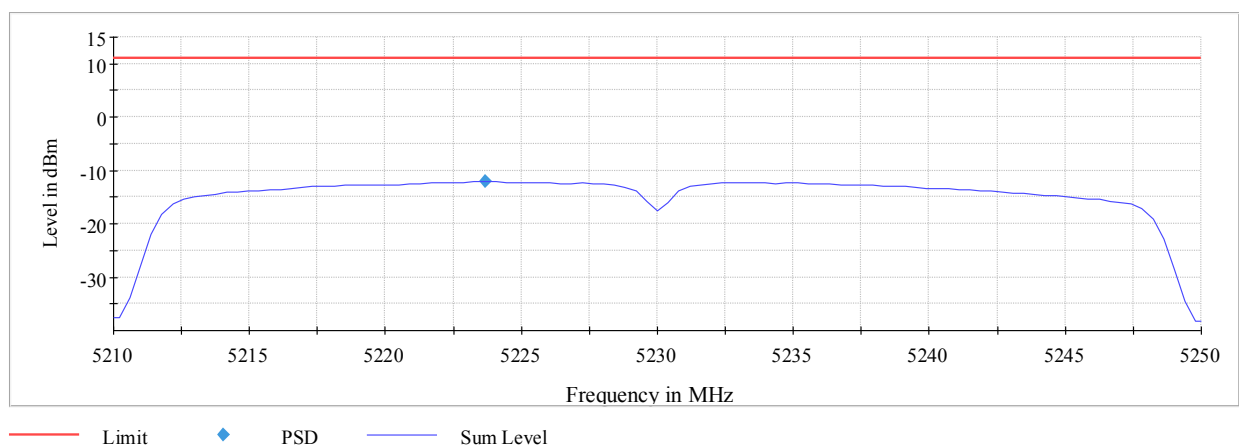
Plot 249: Mode 3, U-NII-1, Peak PSD, low channel

Power Spectral Density (SA-1)



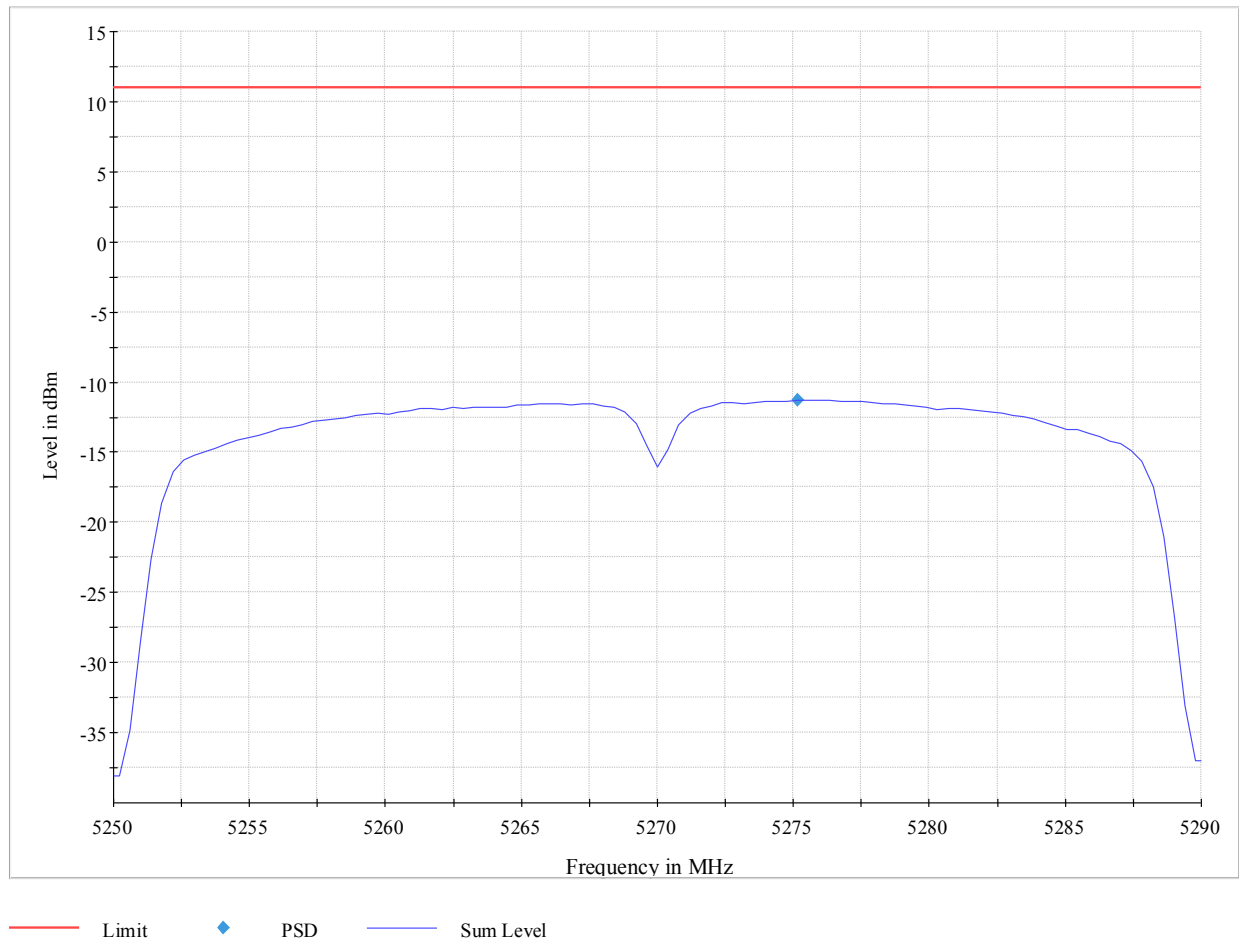
Plot 250: Mode 3, U-NII-1, Peak PSD, high channel

Power Spectral Density (SA-1)



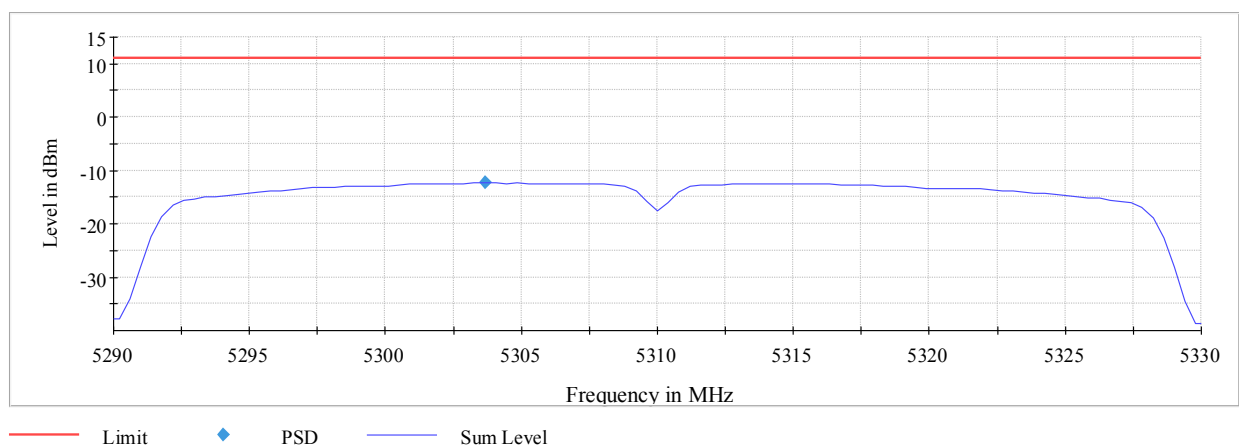
Plot 251: Mode 3, U-NII-2A, Peak PSD, low channel

Power Spectral Density (SA-1)



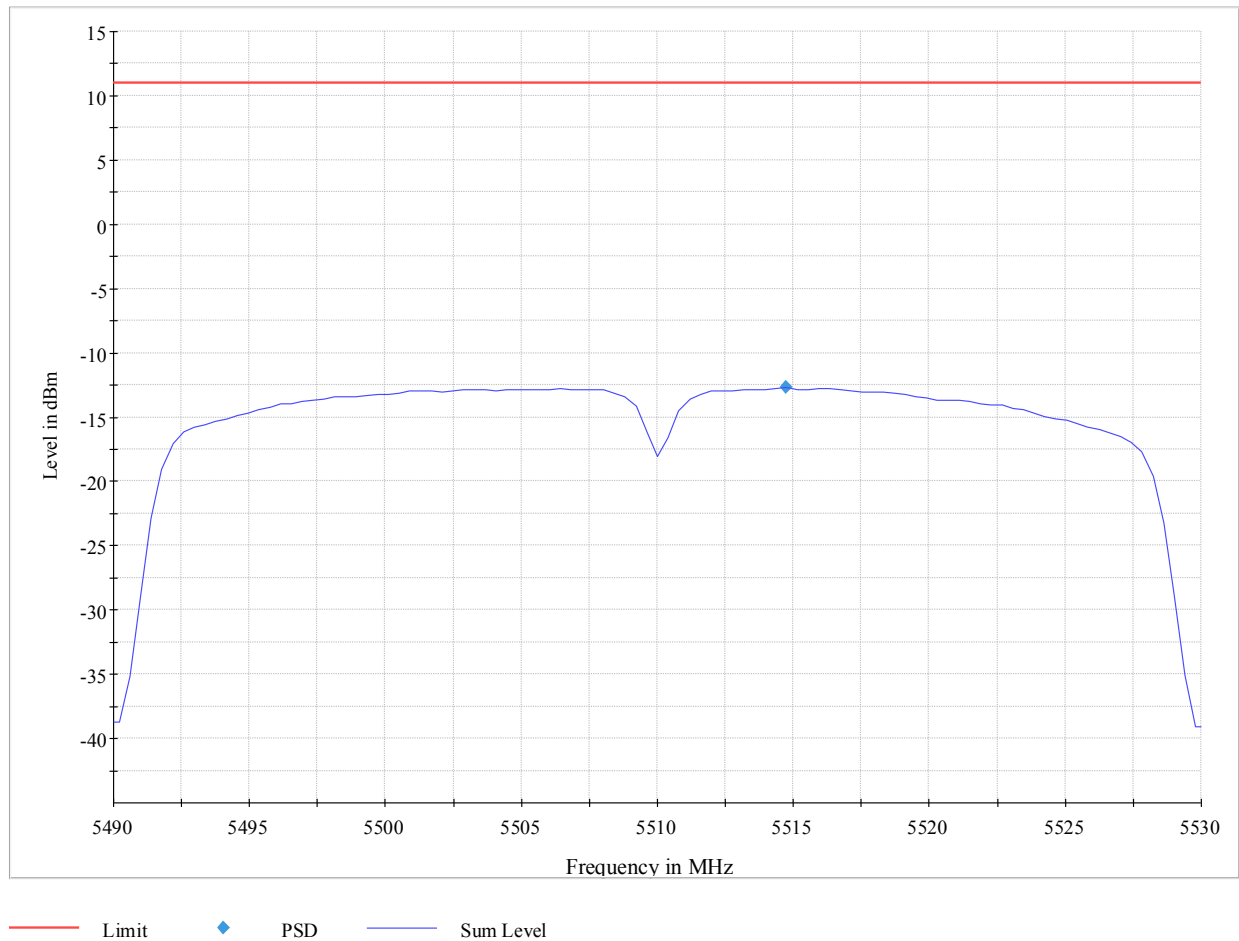
Plot 252: Mode 3, U-NII-2A, Peak PSD, high channel

Power Spectral Density (SA-1)



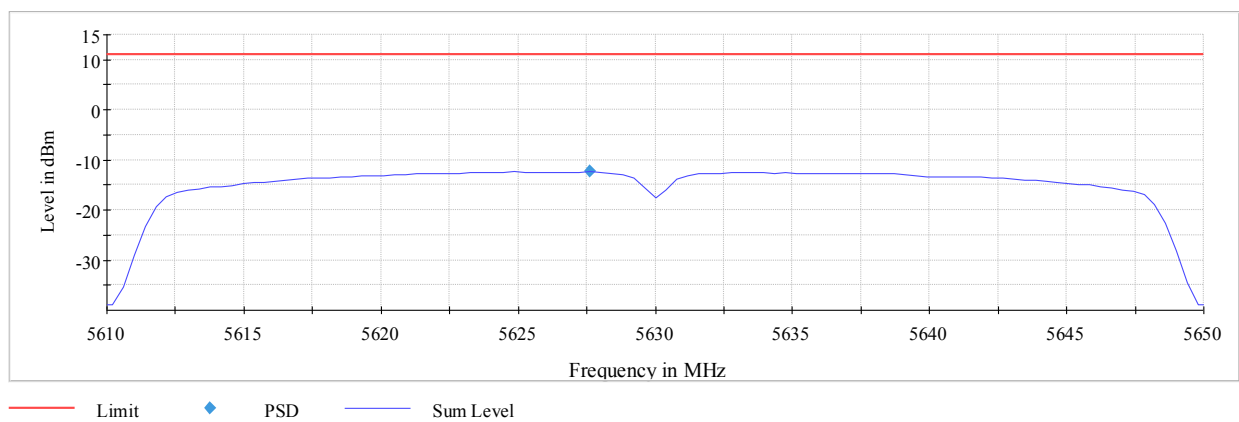
Plot 253: Mode 3, U-NII-2C, Peak PSD, low channel

Power Spectral Density (SA-1)

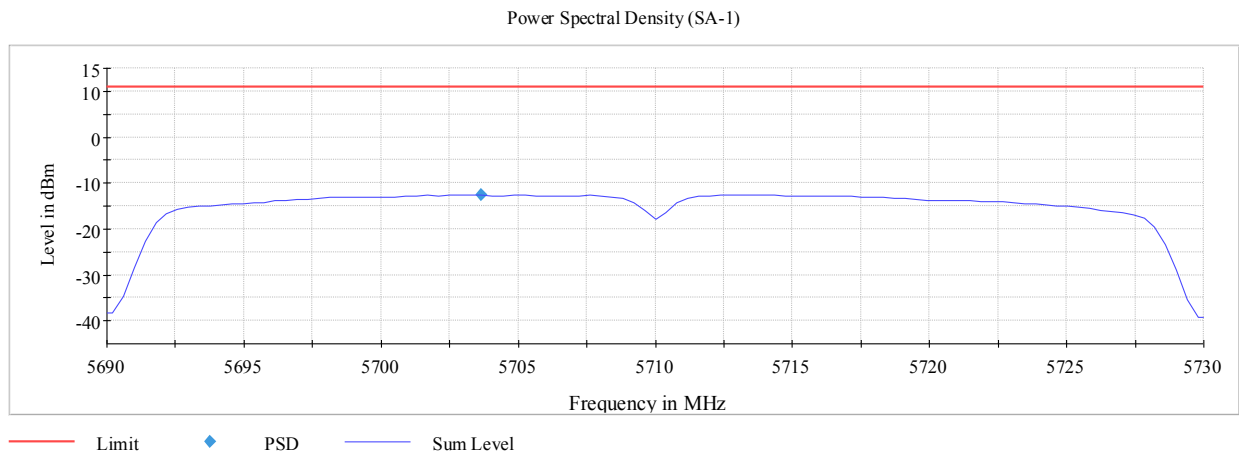


Plot 254: Mode 3, U-NII-2C, Peak PSD, mid channel

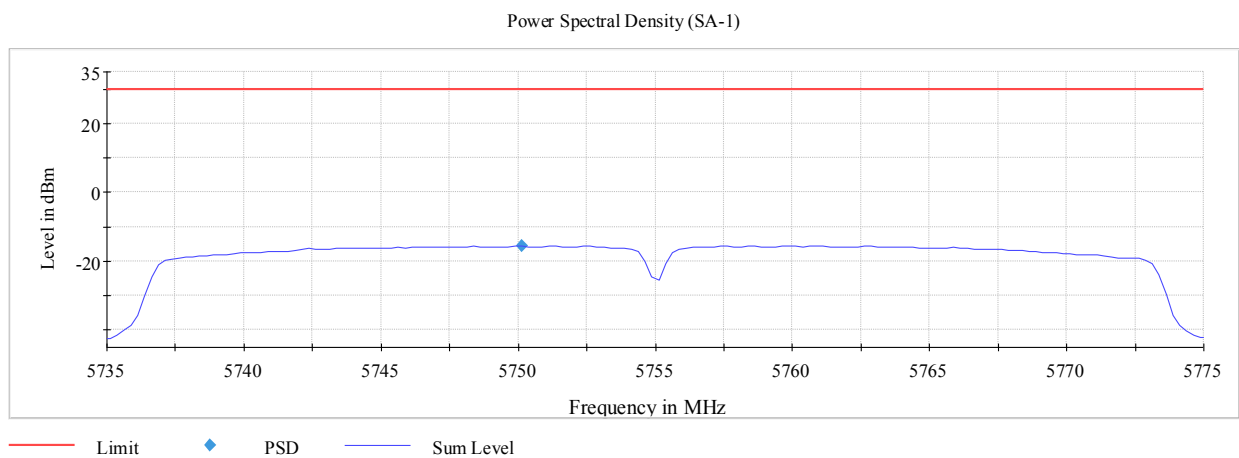
Power Spectral Density (SA-1)



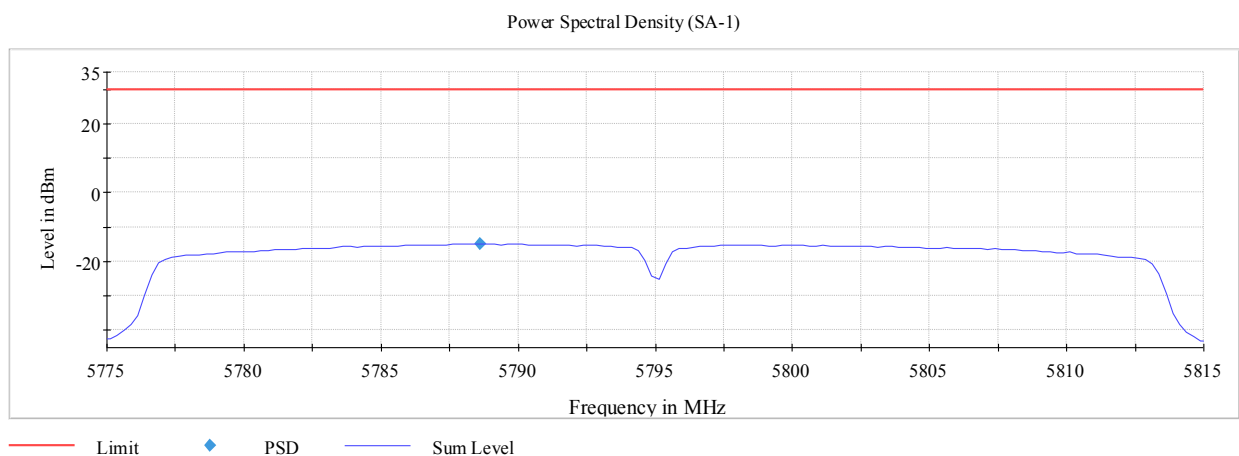
Plot 255: Mode 3, U-NII-2C, Peak PSD, high channel



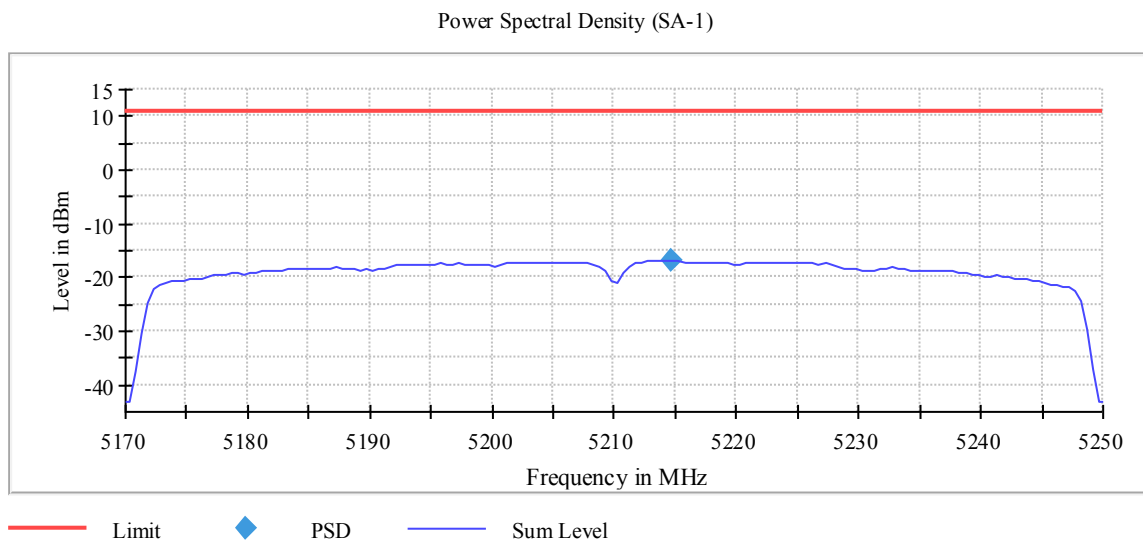
Plot 256: Mode 3, U-NII-3, Peak PSD, low channel



Plot 257: Mode 3, U-NII-3, Peak PSD, high channel

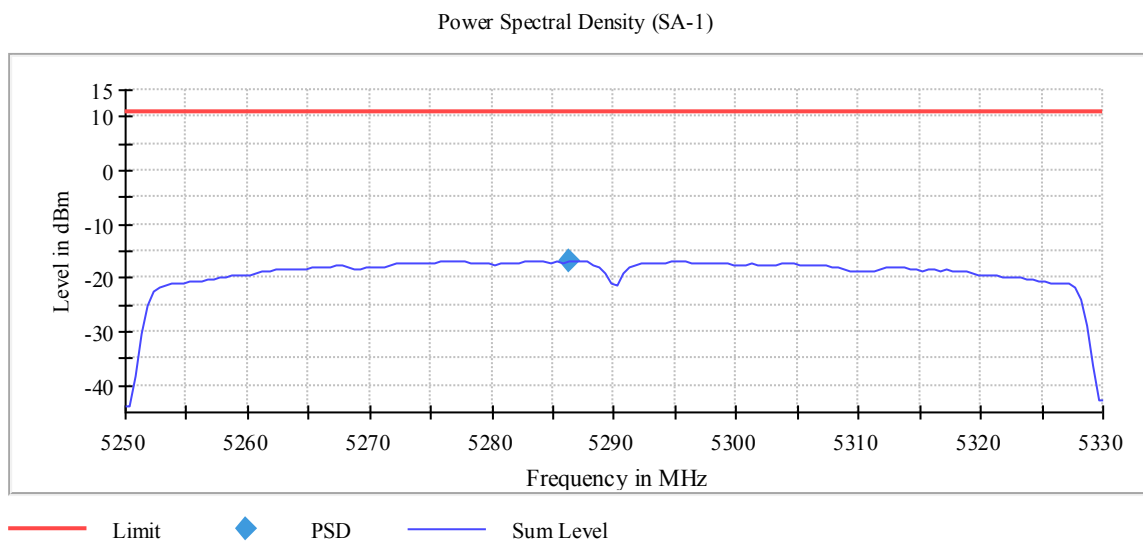


Plot 258: Mode 6, U-NII-1, Peak PSD, mid channel



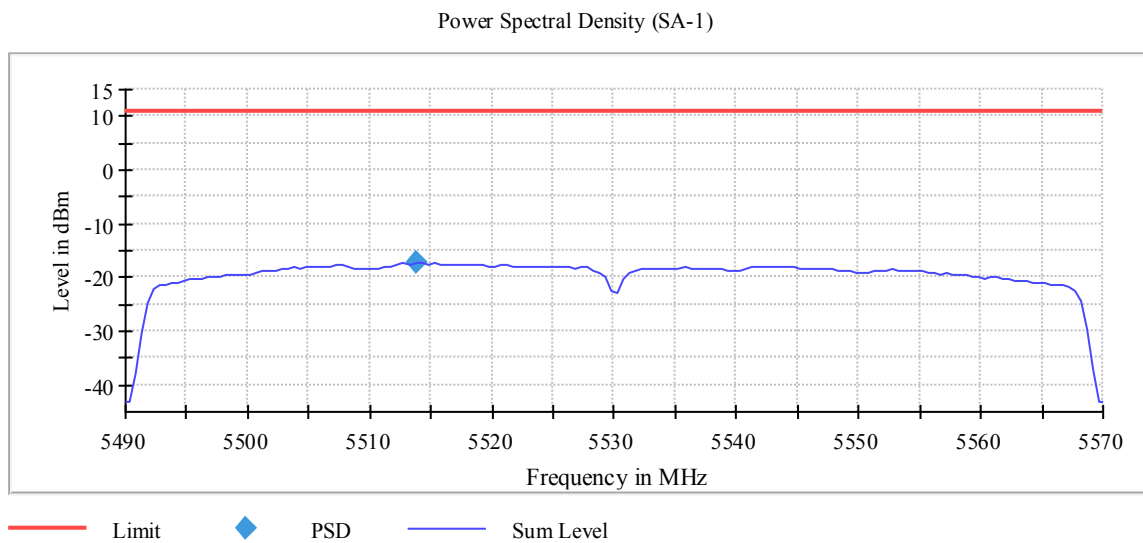
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5210.000000	5214.750000	-16.928	11.0	PASS

Plot 259: Mode 6, U-NII-2A, Peak PSD, mid channel



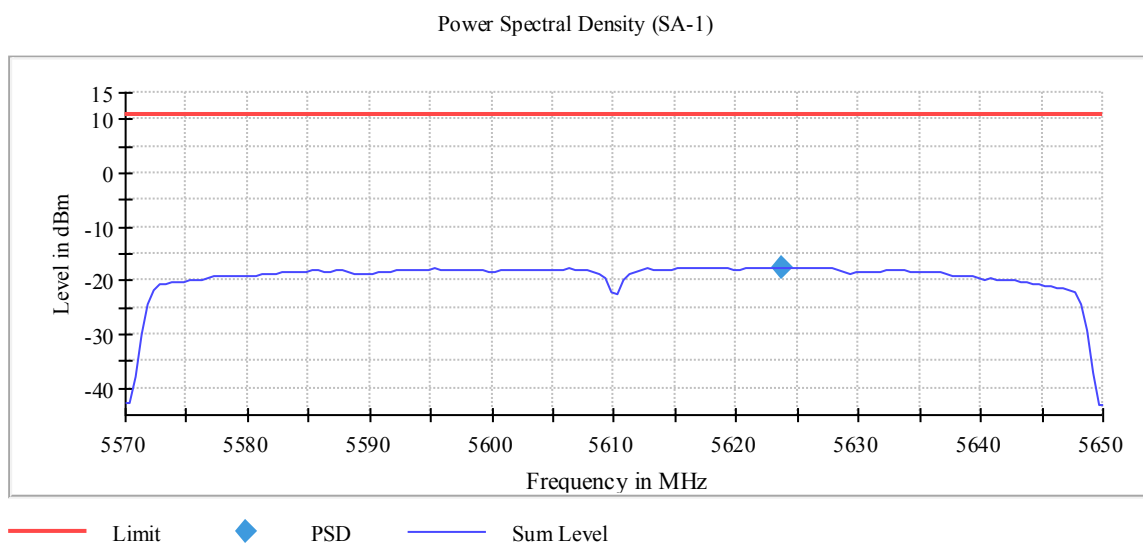
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5290.000000	5286.250000	-16.888	11.0	PASS

Plot 260: Mode 6, U-NII-2C, Peak PSD, low channel



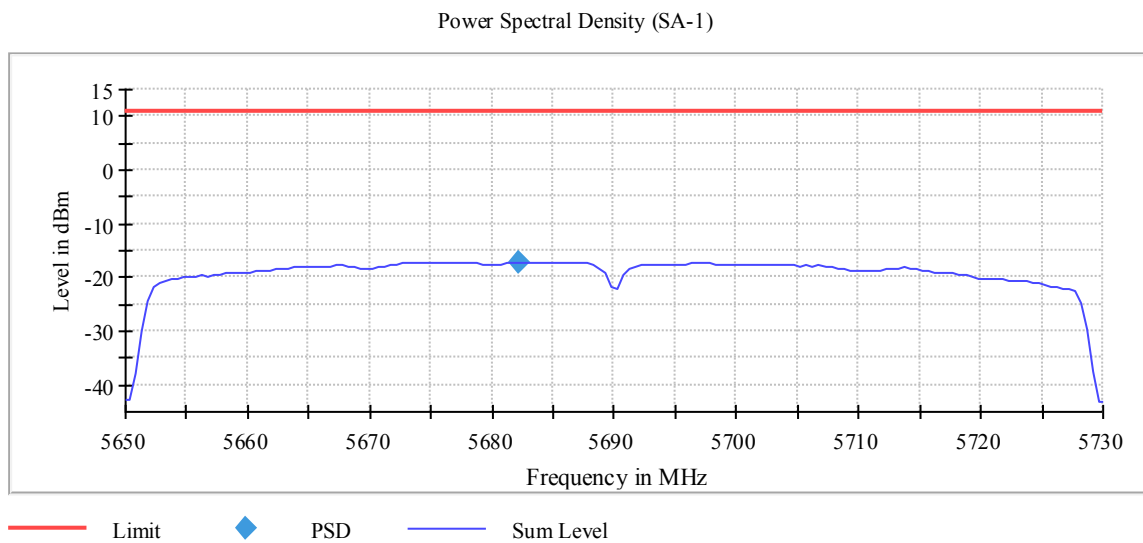
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5530.000000	5513.750000	-17.314	11.0	PASS

Plot 261: Mode 6, U-NII-2C, Peak PSD, mid channel



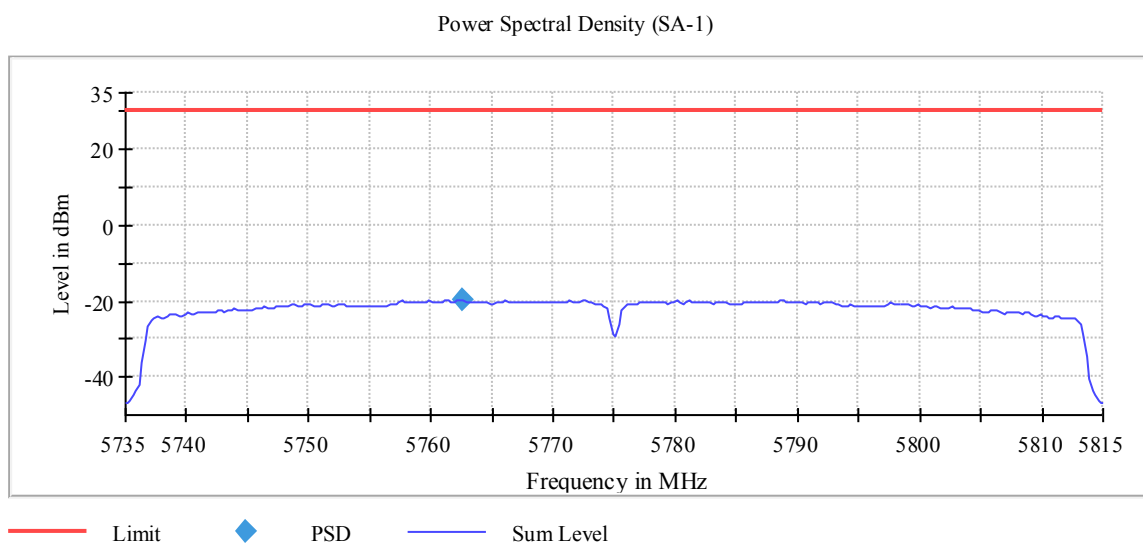
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5610.000000	5623.750000	-17.512	11.0	PASS

Plot 262: Mode 6, U-NII-2C, Peak PSD, high channel



DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5690.000000	5682.250000	-17.081	11.0	PASS

Plot 263: Mode 6, U-NII-3, Peak PSD, mid channel



DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5775.000000	5762.625000	-19.708	30.0	PASS

7.7 Band Edge Compliance (BEC), conducted

Applicability

This requirement applies to unlicensed National Information Infrastructure (U-NII) devices operating in the 5.15–5.35 GHz, 5.47–5.725 GHz and 5.725–5.85 GHz bands.

Description

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.3.d ii

Unwanted band-edge emissions may be measured using either of the special band-edge measurement techniques (the marker-delta or integration methods). Note that the marker-delta method is primarily a radiated measurement technique that requires the 99% occupied bandwidth edge to be within 2 MHz of the authorized band edge, whereas the integration method can be used in either a radiated or conducted measurement without any special requirement with regards to the displacement of the unwanted emission(s) relative to the authorized bandwidth.

Limits

§15.407(b)

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (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.
- (4) For transmitters operating in the 5.725–5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test procedure

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.3.d ii and ANSI C63.10-2013.

Channel filter is used for doing integration in the measurement device.

Test setup: 8.4 with conducted sample (see section 5.2)

Test results 20 MHz			
BEC	low channel [dBc]	high channel [dBc]	Limit [dBc]
Mode 1, U-NII-1 & U-NII-2A	> 45	> 40	≥ 27
Mode 1, U-NII-2C	> 40	> 50	≥ 27
Mode 1, U-NII-3	> 50	> 50	≥ 27

Test results 40 MHz			
BEC	low channel [dBc]	high channel [dBc]	Limit [dBc]
Mode 3, U-NII-1 & U-NII-2A	> 40	> 40	≥ 27
Mode 3, U-NII-2C	> 40	> 40	≥ 27
Mode 3, U-NII-3	> 40	> 40	≥ 27

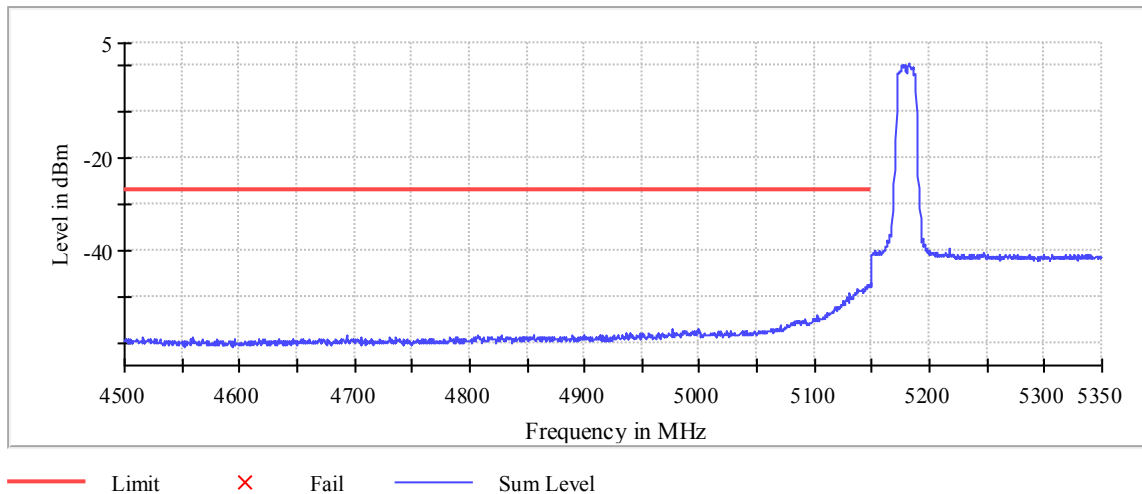
Test results 80 MHz			
BEC	low channel [dBc]	high channel [dBc]	Limit [dBc]
Mode 6, U-NII-1 & U-NII-2A	> 35	> 45	≥ 27
Mode 6, U-NII-2C	> 45	> 50	≥ 27
Mode 6, U-NII-3	> 50	> 45	≥ 27

Comment:	---
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Verdict	- PASS -	see next plots
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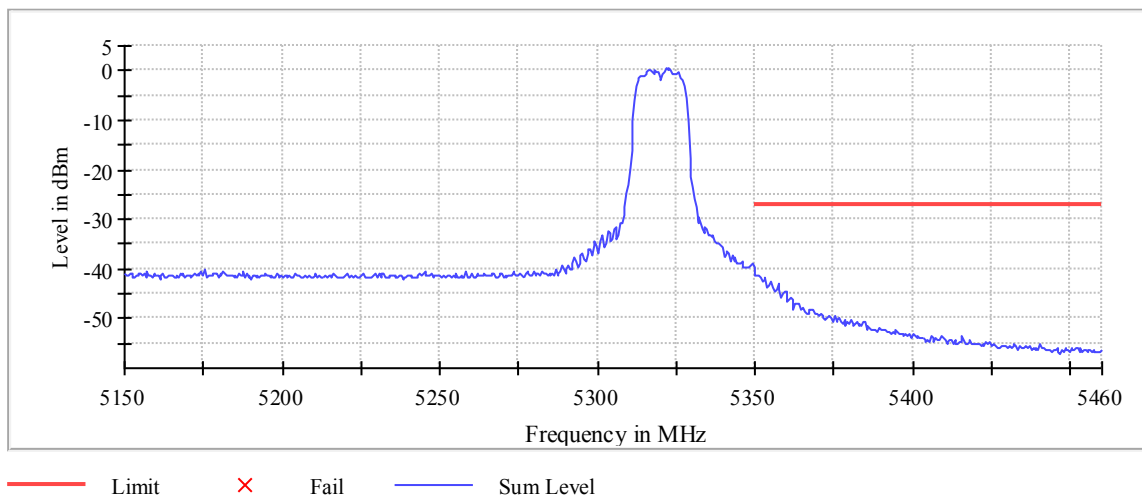
Plot 264: Mode 1, BEC, U-NII-1 & U-NII-2A, low channel, 5180 MHz

Band Edge



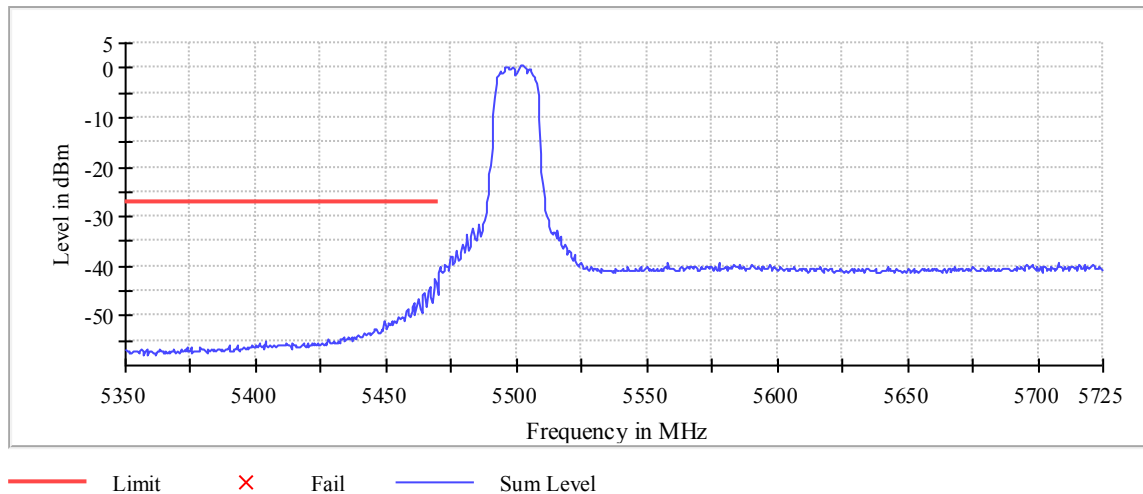
Plot 265: Mode 1, BEC, U-NII-1 & U-NII-2A, high channel, 5320 MHz

Band Edge



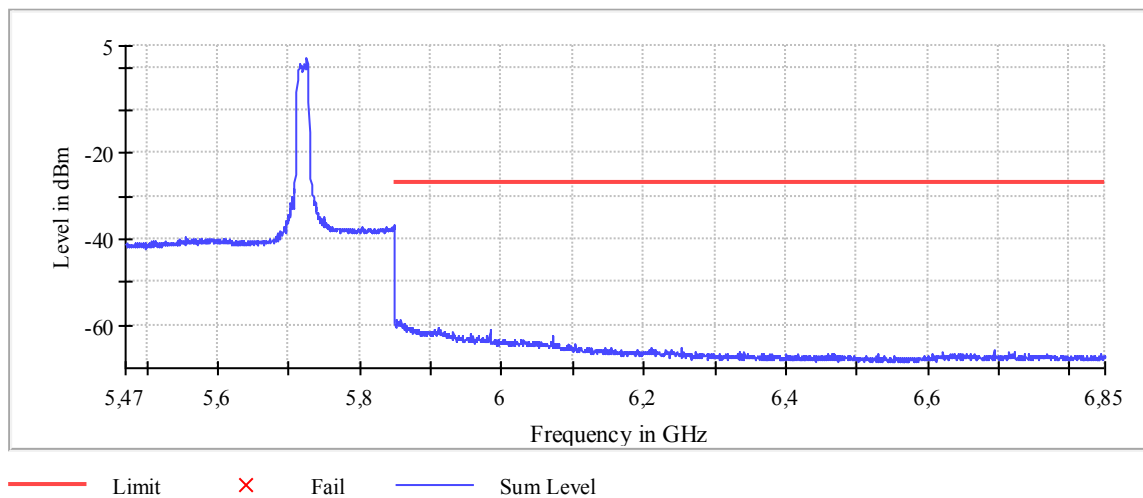
Plot 266: Mode 1, BEC, U-NII-2C, low channel

Band Edge

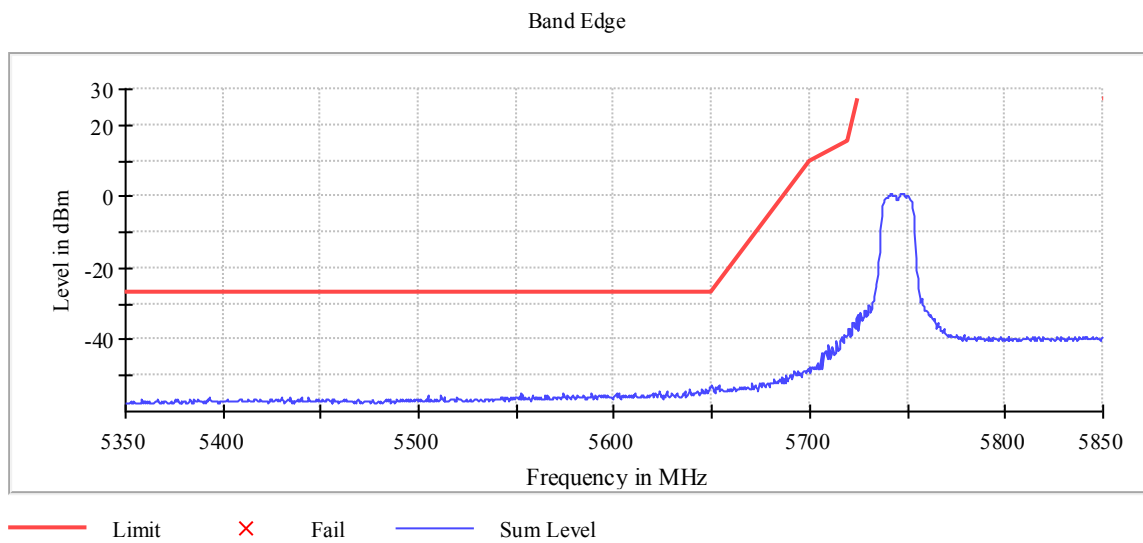


Plot 267: Mode 1, BEC, U-NII-2C, high channel

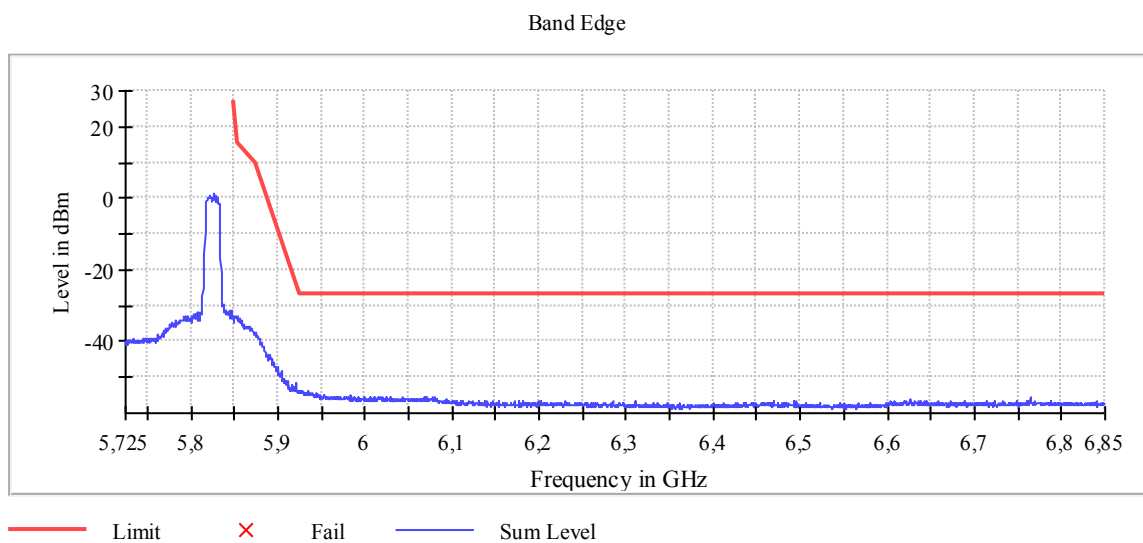
Band Edge



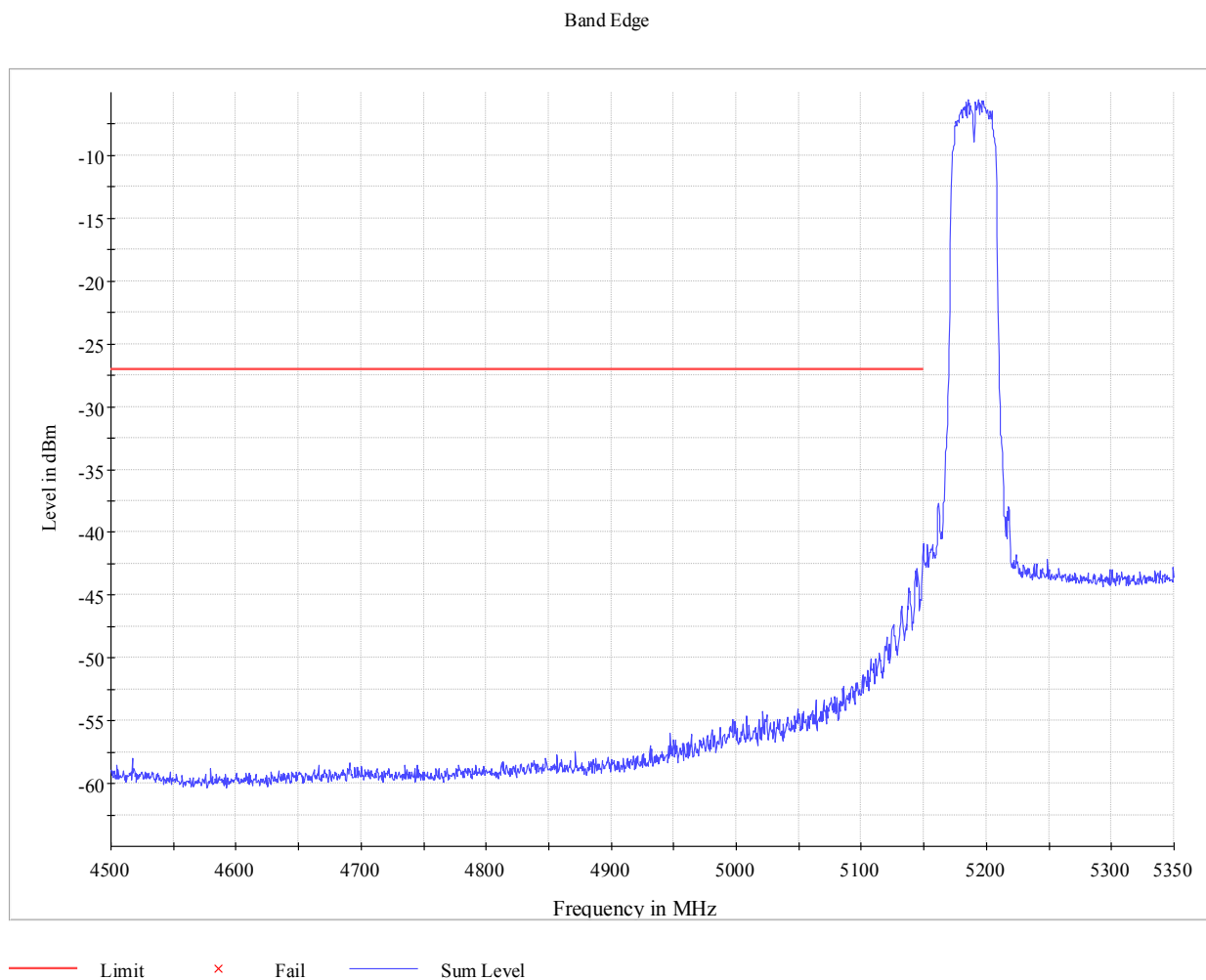
Plot 268: Mode 1, BEC, U-NII-3, low channel



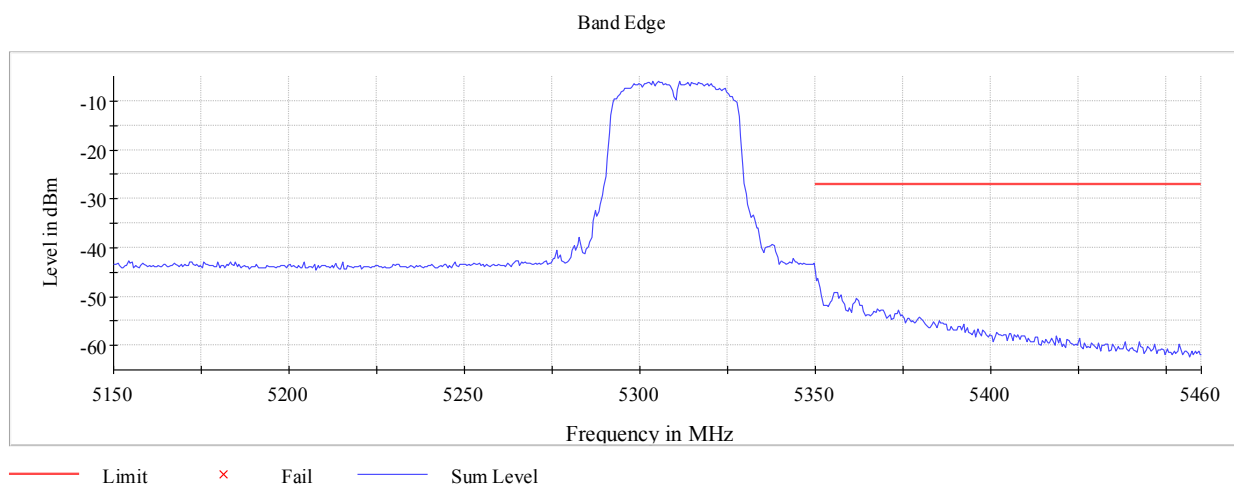
Plot 269: Mode 1, BEC, U-NII-3, high channel



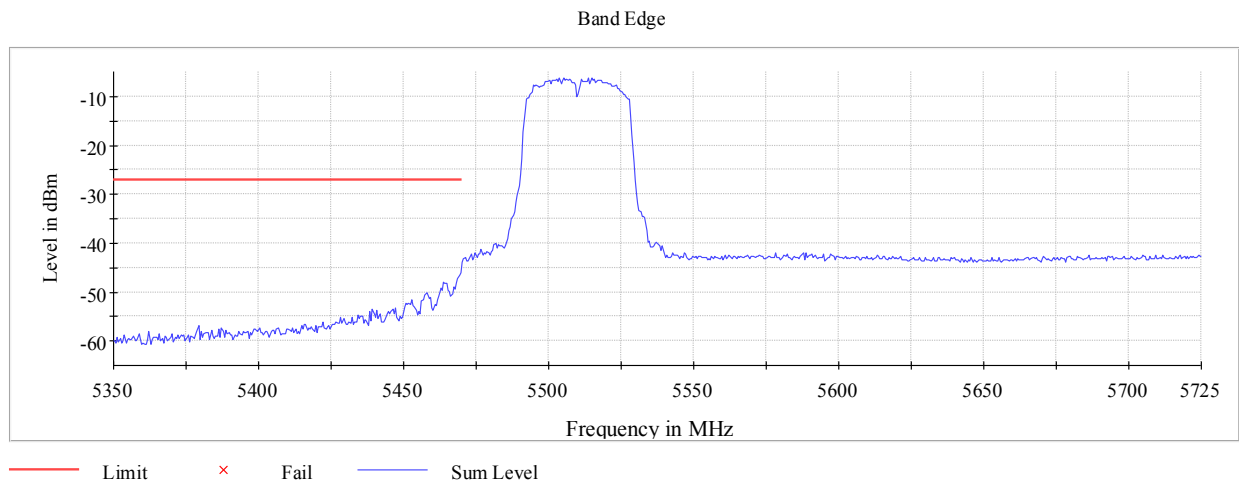
Plot 270: Mode 3, BEC, U-NII-1 & U-NII-2A, low channel, 5190 MHz



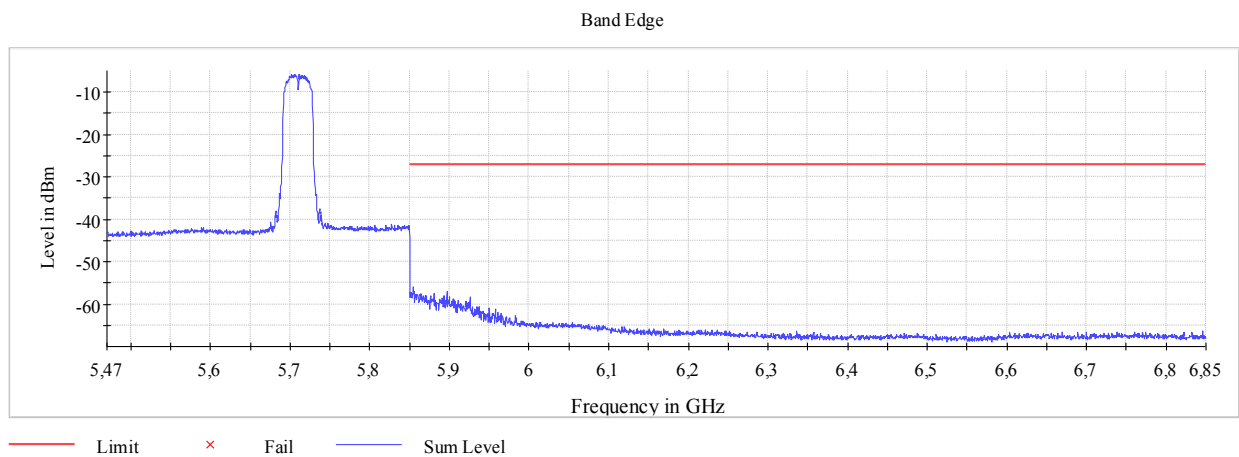
Plot 271: Mode 3, BEC, U-NII-1 & U-NII-2A, high channel, 5310 MHz



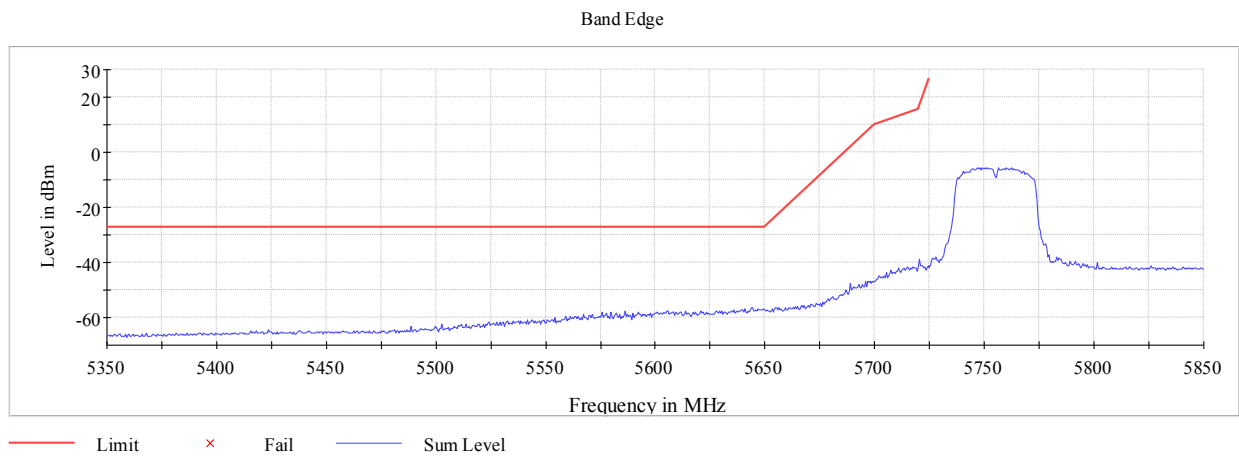
Plot 272: Mode 3, BEC, U-NII-2C, low channel



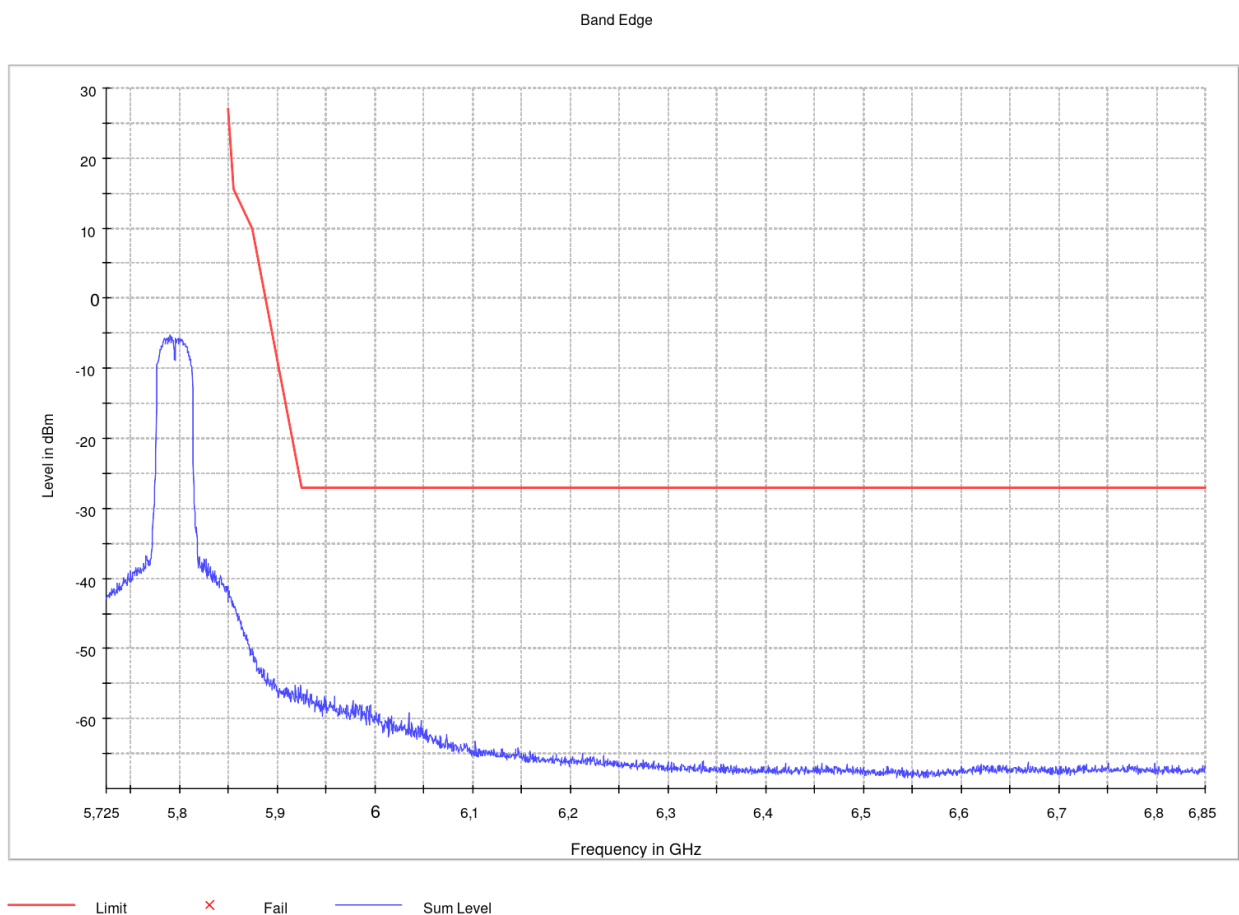
Plot 273: Mode 3, BEC, U-NII-2C, high channel



Plot 274: Mode 3, BEC, U-NII-3, low channel

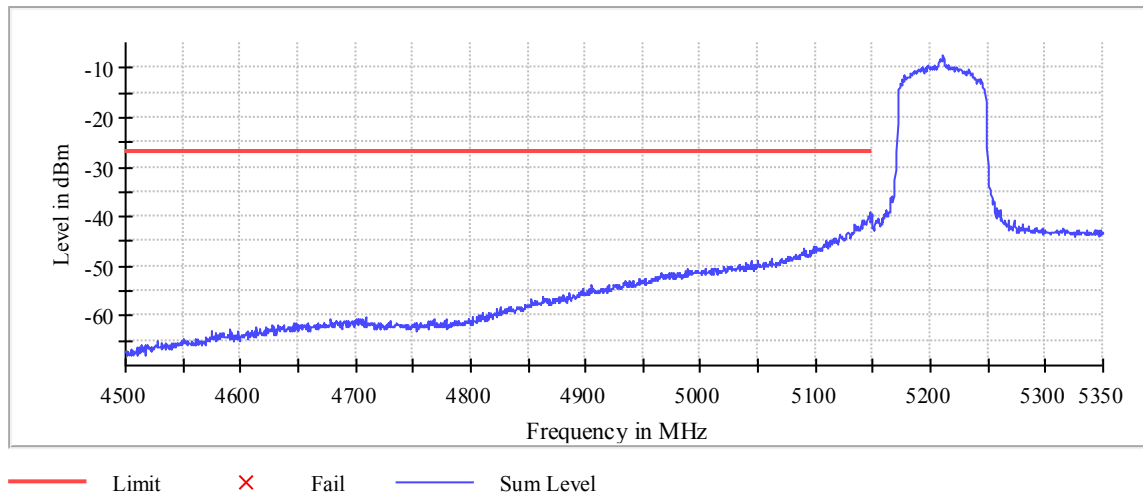


Plot 275: Mode 3, BEC, U-NII-3, high channel



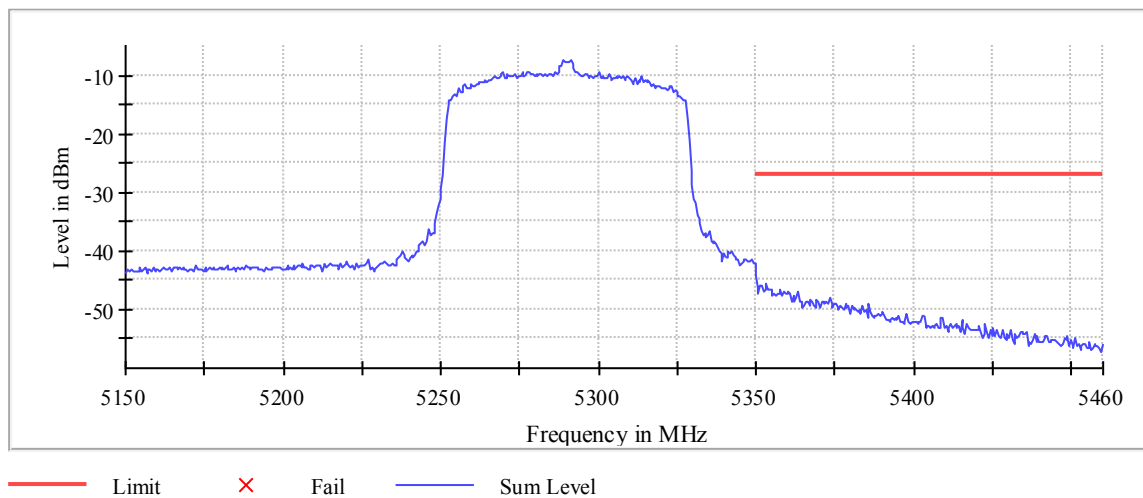
Plot 276: Mode 6, BEC, U-NII-1 & U-NII-2A, low channel, 5210 MHz

Band Edge



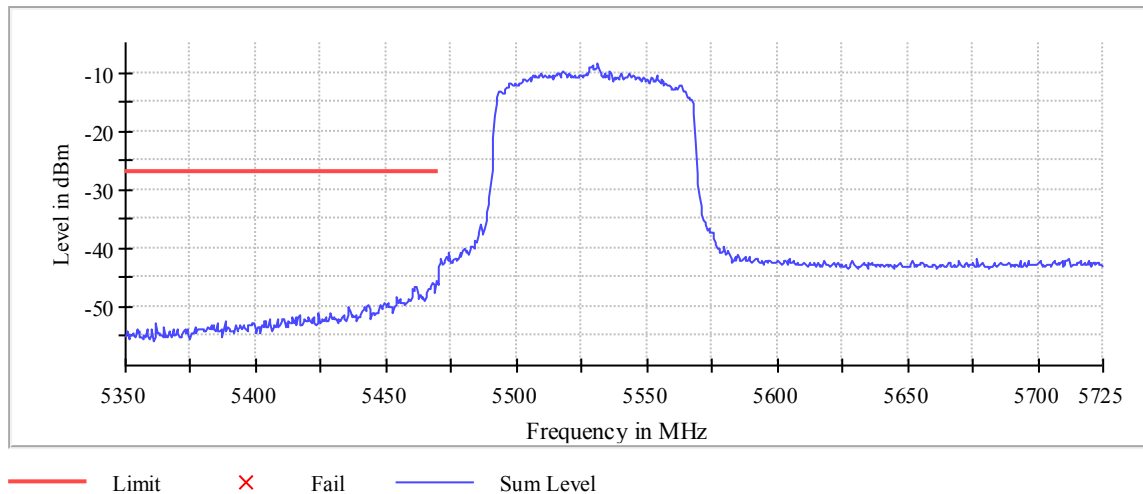
Plot 277: Mode 6, BEC, U-NII-1 & U-NII-2A, high channel, 5290 MHz

Band Edge



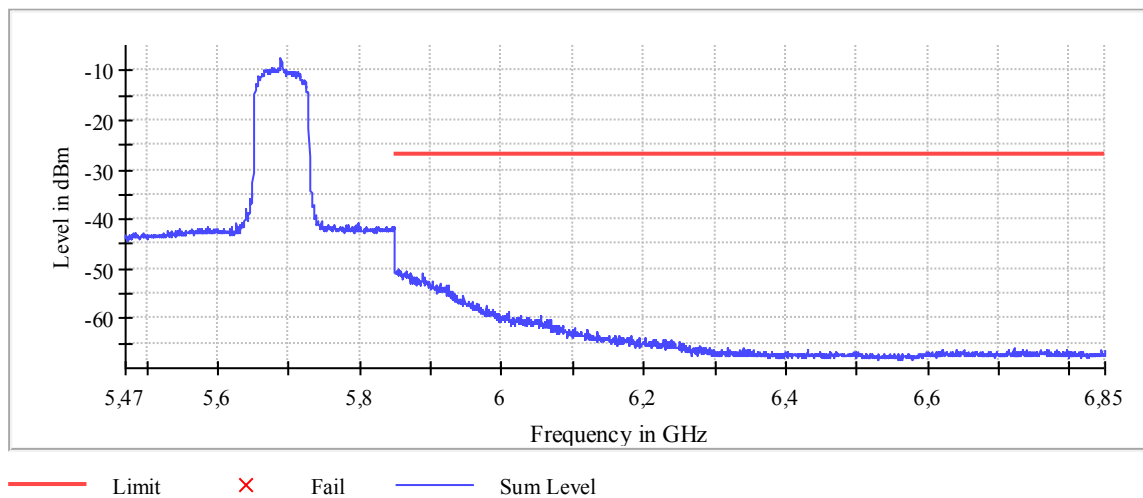
Plot 278: Mode 6, BEC, U-NII-2C, low channel, 5530 MHz

Band Edge



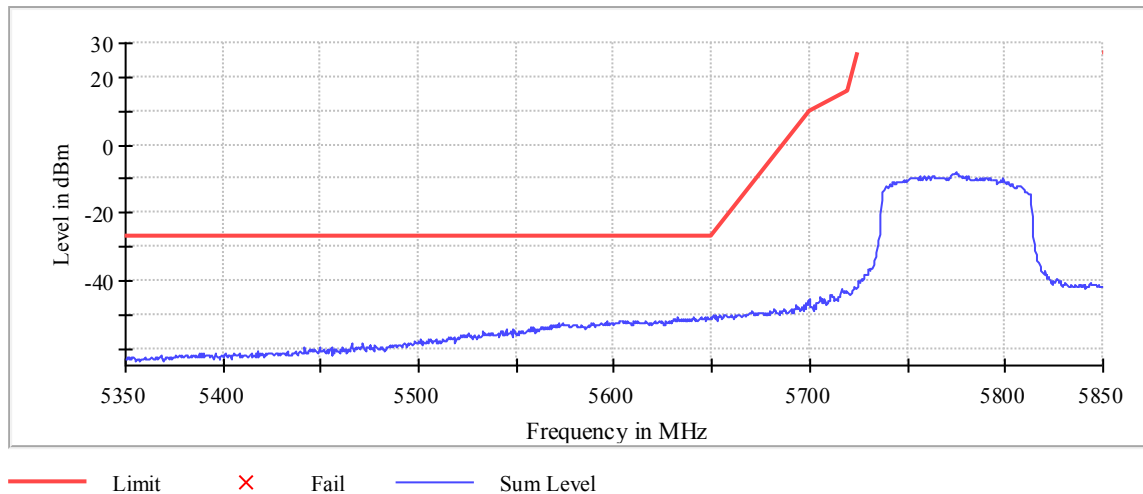
Plot 279: Mode 6, BEC, U-NII-2C, high channel, 5690

Band Edge



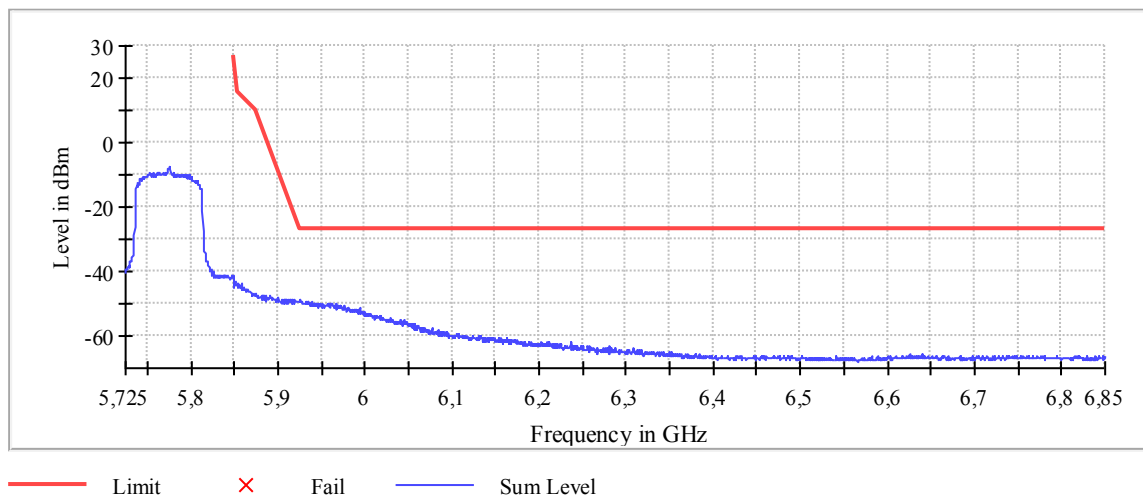
Plot 280: Mode 6, BEC low, U-NII-3, channel 155, 5775 MHz

Band Edge



Plot 281: Mode 6, BEC high, U-NII-3, channel 155, 5775 MHz

Band Edge



7.8 Band Edge Compliance (BEC), radiated

Applicability

This requirement applies to unlicensed National Information Infrastructure (U-NII) devices operating in the 5.15–5.35 GHz, 5.47–5.725 GHz and 5.725–5.85 GHz bands.

Description

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.3.d ii

Unwanted band-edge emissions may be measured using either of the special band-edge measurement techniques (the marker-delta or integration methods). Note that the marker-delta method is primarily a radiated measurement technique that requires the 99% occupied bandwidth edge to be within 2 MHz of the authorized band edge, whereas the integration method can be used in either a radiated or conducted measurement without any special requirement with regards to the displacement of the unwanted emission(s) relative to the authorized bandwidth.

Limits

§15.407(b)

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (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.
- (4) For transmitters operating in the 5.725–5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test procedure

The marker-delta method as described in ANSI C63.10, 6.10.6 or the integration method as described in ANSI C63.10, 11.13.3 can be used to perform measurements of the unwanted emissions level at the band edges.

Test setup: 8.2 with radiated sample (see section 5.2)

Test results 20 MHz				
testing mode, frequency band	low channel [dB μ V/m @3m]	high channel [dB μ V/m @3m]	Limit AVG / Peak [dB μ V/m @3m]	Verdict
Mode 1, U-NII-1 & U-NII-2A	51.4 AVG / 63.8 PK	51.8 AVG / 63.8 PK	≤ 54 AVG / ≤ 74 PK	- PASS -
Mode 1, U-NII-2C & U-NII-3	52.7 AVG / 64.2 PK	52.5 AVG / 64.4 PK	≤ 54 AVG / ≤ 74 PK	- PASS -

Test results 40 MHz				
testing mode, frequency band	low channel [dB μ V/m @3m]	high channel [dB μ V/m @3m]	Limit AVG / Peak [dB μ V/m @3m]	Verdict
Mode 3, U-NII-1 & U-NII-2A	51.5 AVG / 63.8 PK	51.8 AVG / 64.1 PK	≤ 54 AVG / ≤ 74 PK	- PASS -
Mode 3, U-NII-2C & U-NII-3	52.9 AVG / 65.1 PK	52.4 AVG / 64.4 PK	≤ 54 AVG / ≤ 74 PK	- PASS -

Test results 80 MHz				
testing mode, frequency band	low channel [dB μ V/m @3m]	high channel [dB μ V/m @3m]	Limit AVG / Peak [dB μ V/m @3m]	Verdict
Mode 6, U-NII-1 & U-NII-2A	51.5 AVG / 63.8 PK	51.8 AVG / 64.1 PK	≤ 54 AVG / ≤ 74 PK	- PASS -
Mode 3, U-NII-2C & U-NII-3	52.7 AVG / 64.6 PK	52.3 AVG / 65.0 PK	≤ 54 AVG / ≤ 74 PK	- PASS -

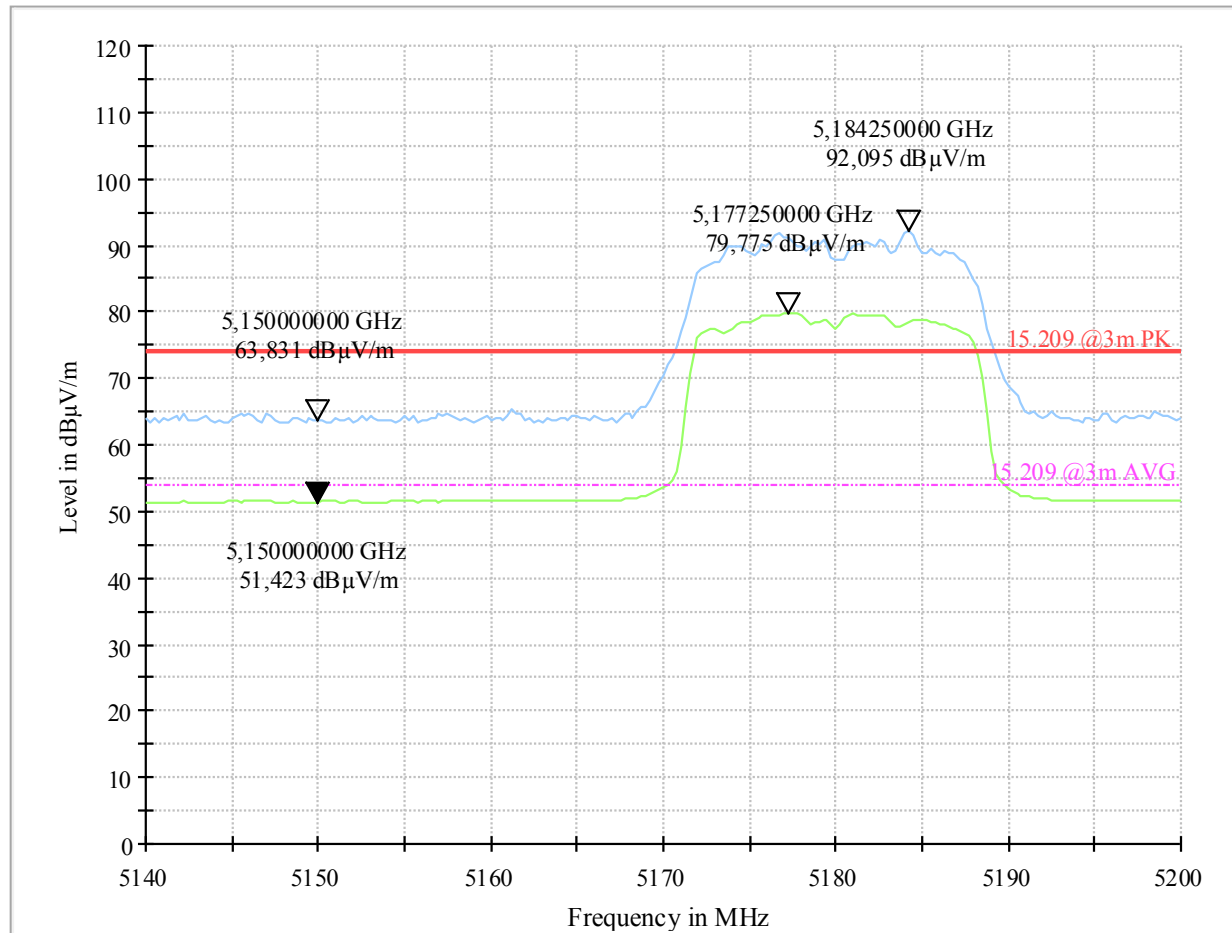
Comment:	---
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Verdict	- PASS -	see next plots*
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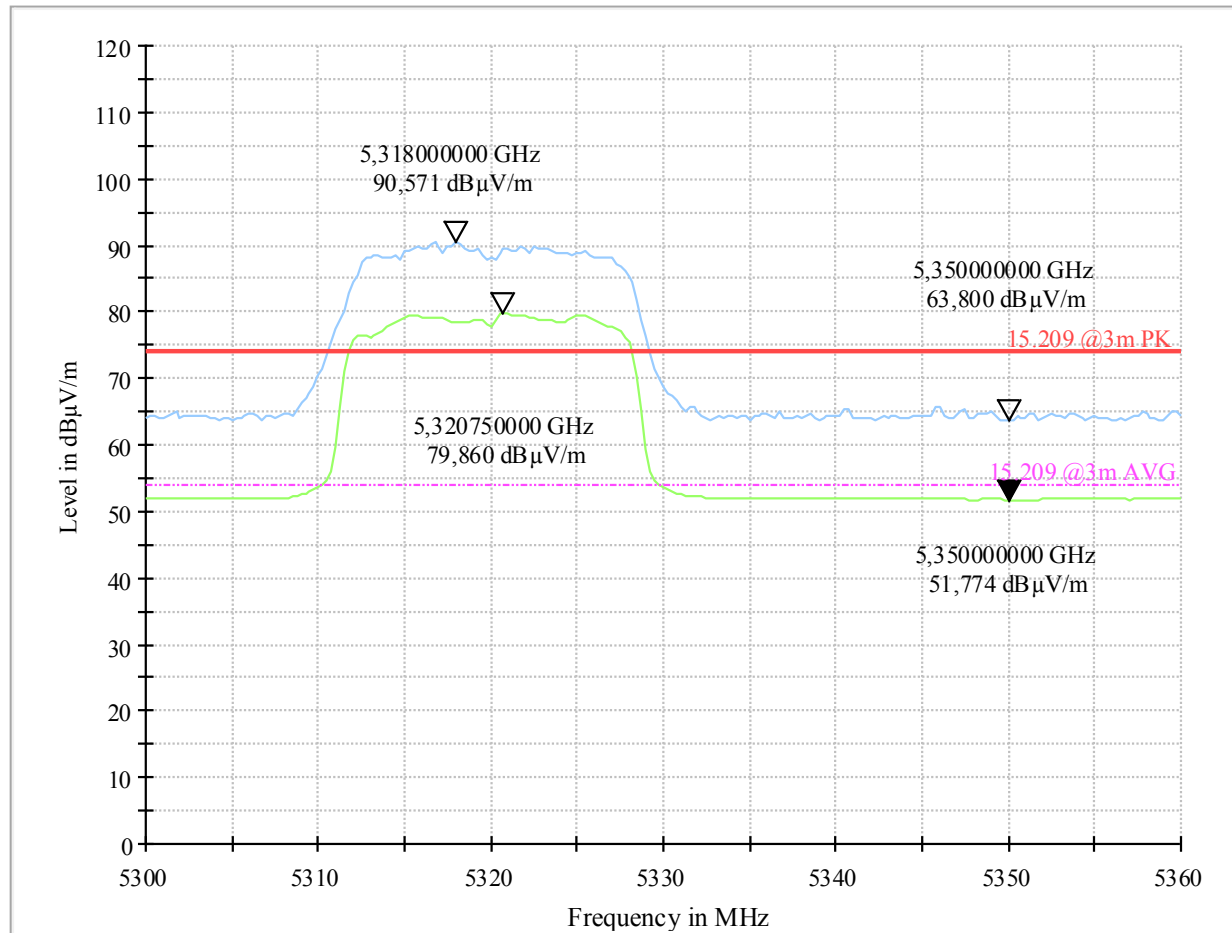
* description of traces for radiated Bend Edge Compliance (BEC) measurements:

 positive Peak (Max Hold) trace
 average Peak (Max Hold) trace

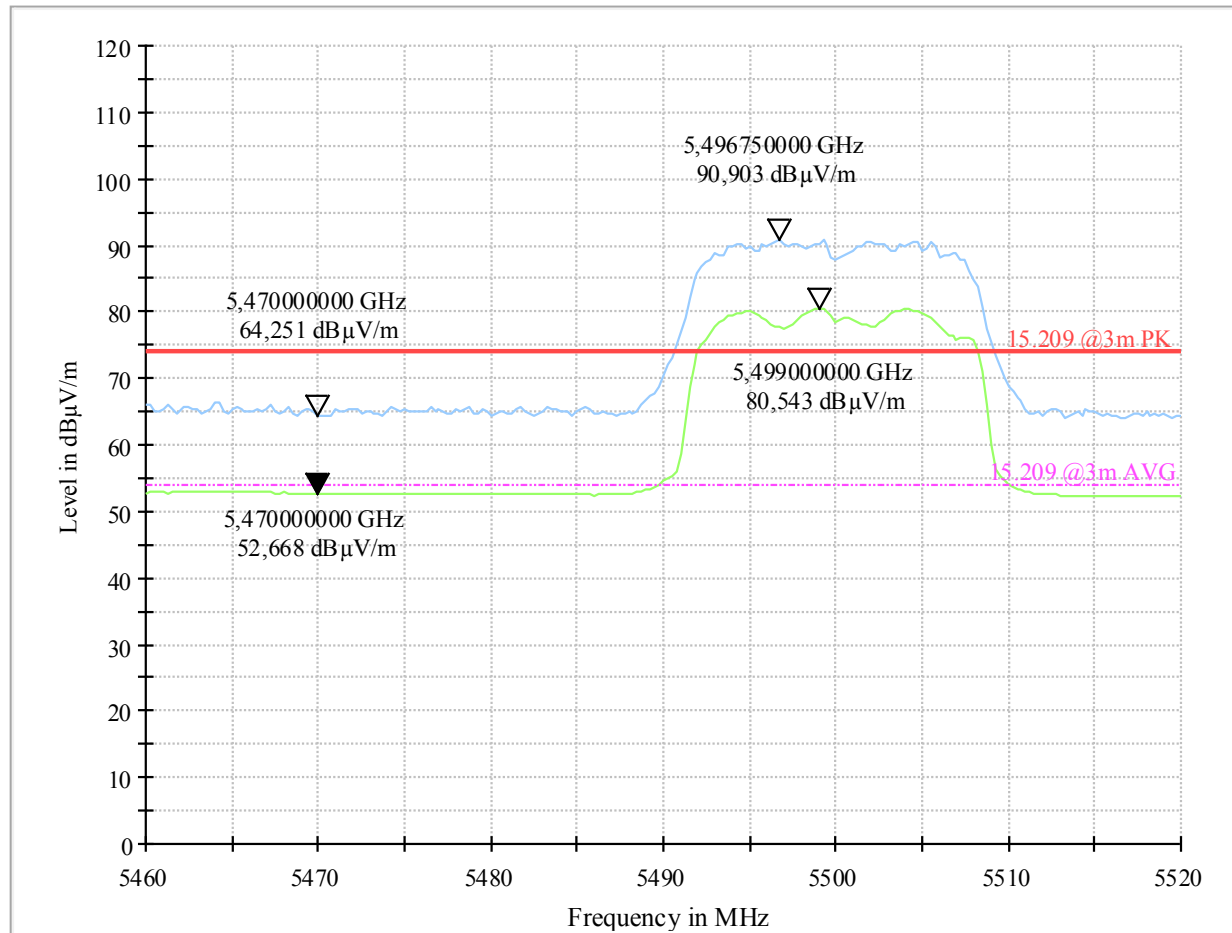
Plot 282: Mode 1, BEC low, channel 36, 5180 MHz



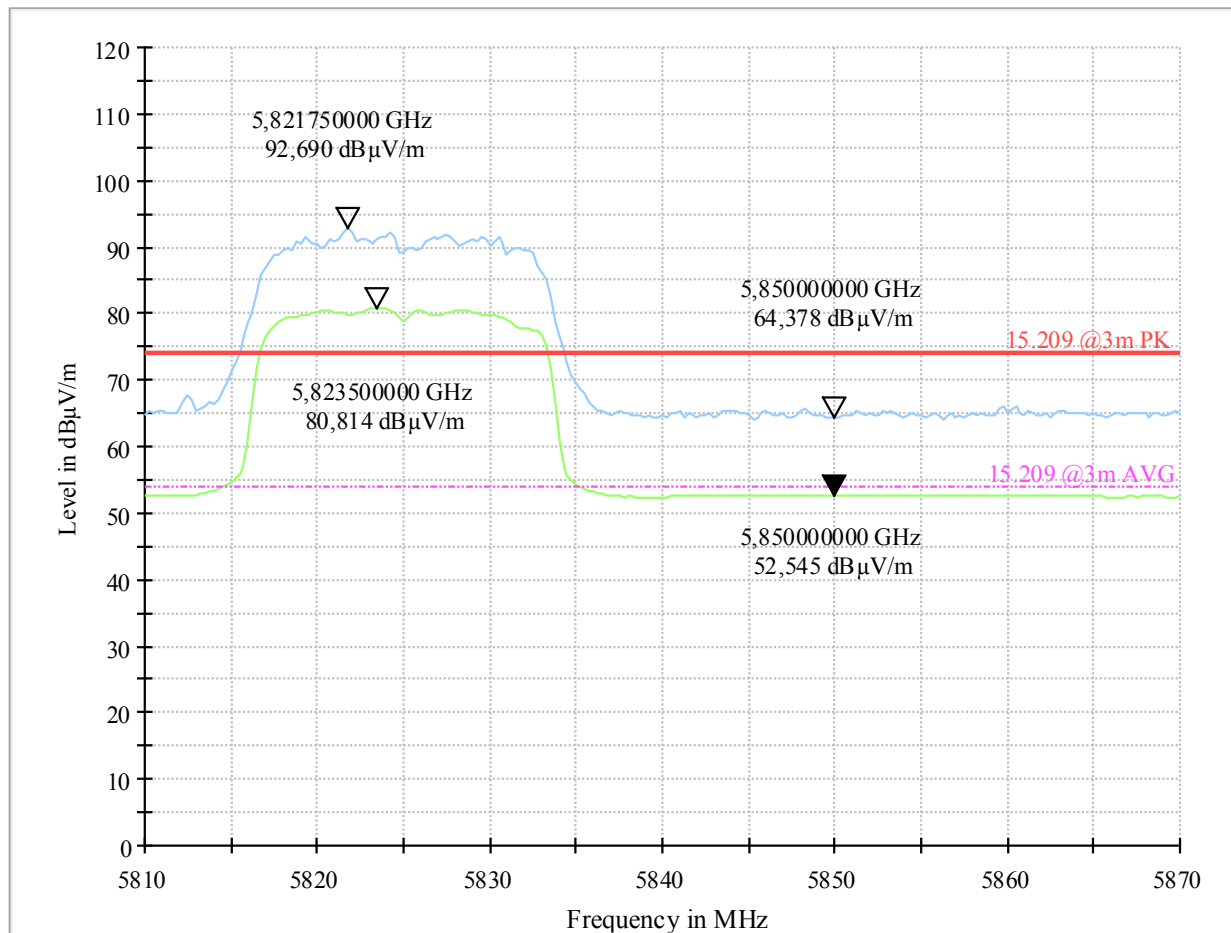
Plot 283: Mode 1, BEC high, channel 64, 5320 MHz, 20 MHz channel bandwidth



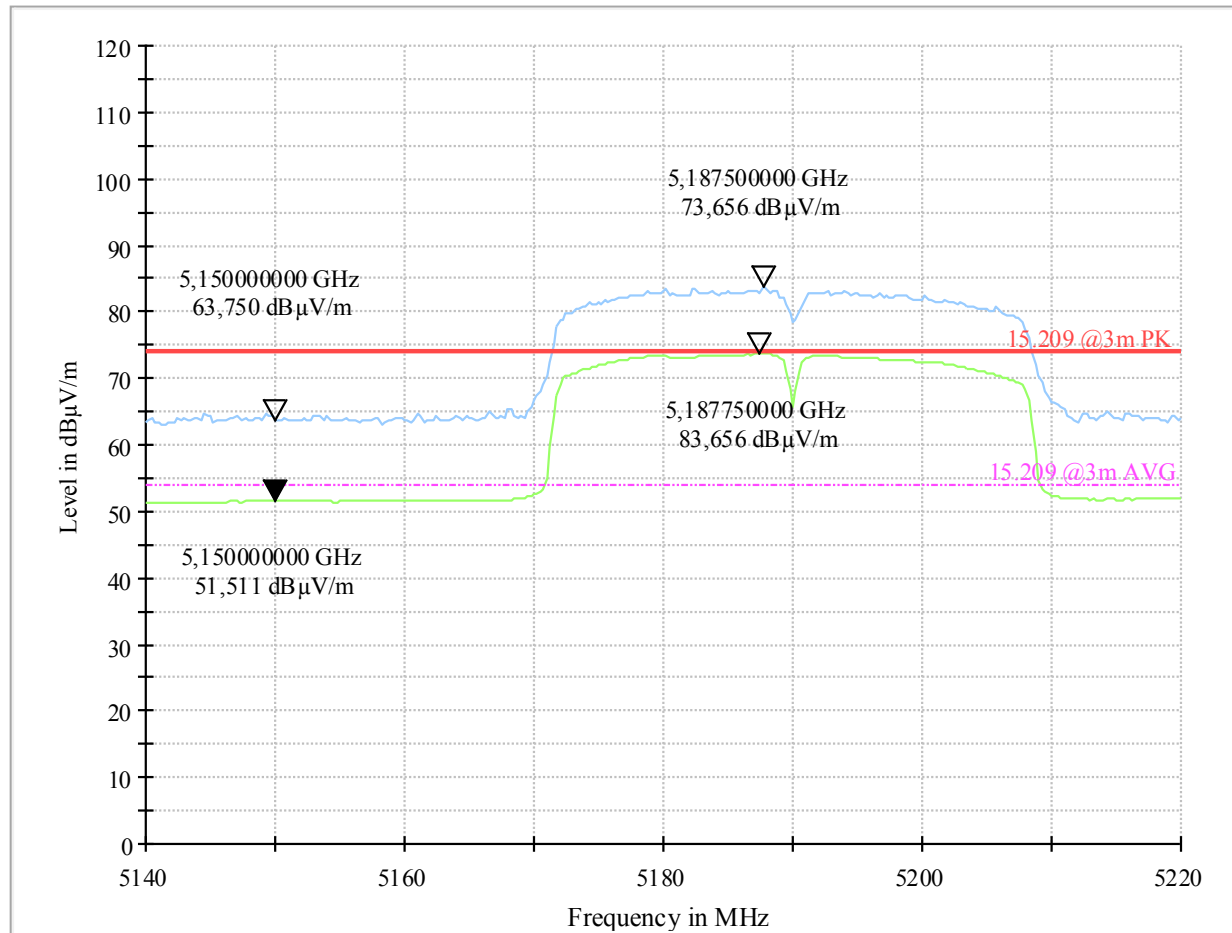
Plot 284: Mode 1, BEC low, channel 100, 5500 MHz, 20 MHz channel bandwidth



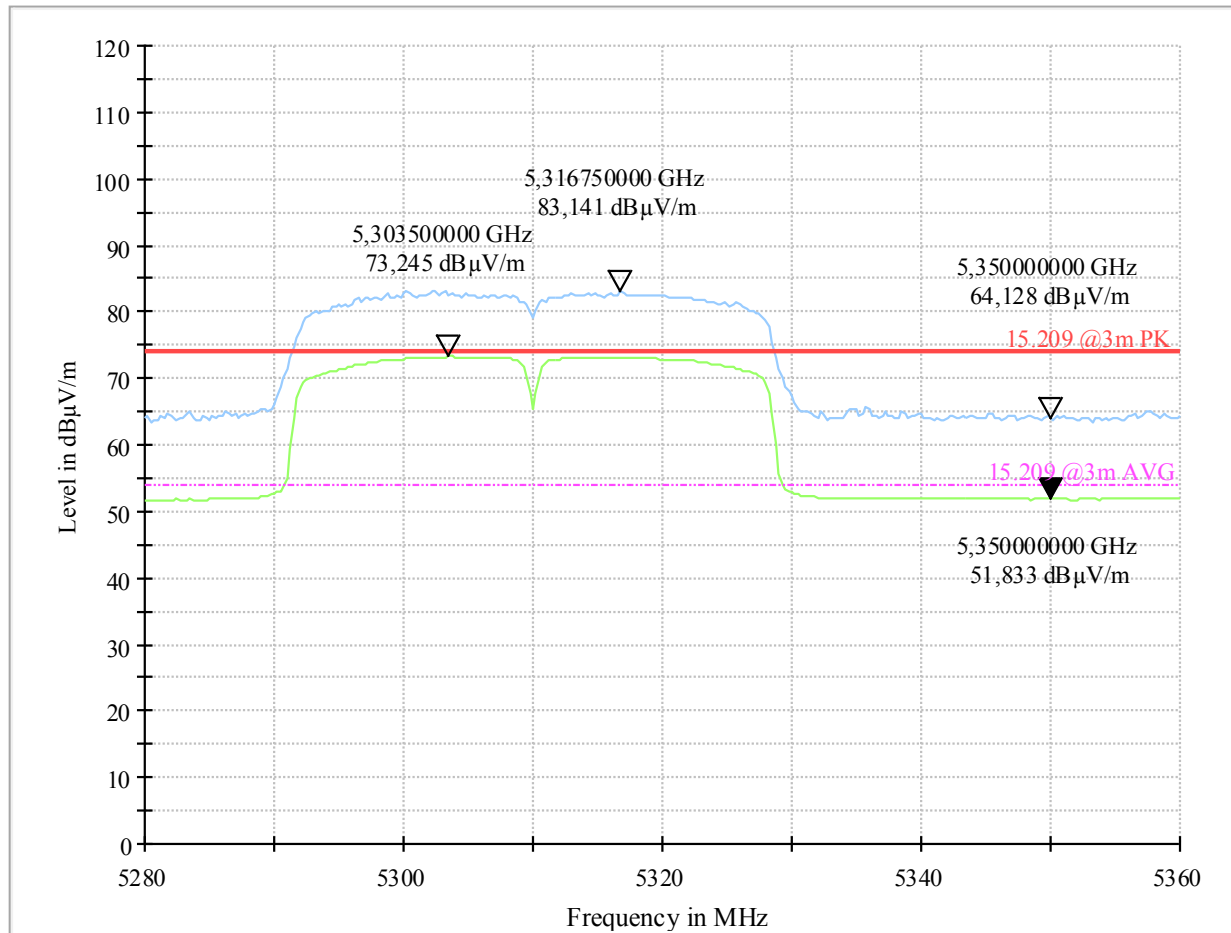
Plot 285: Mode 1, BEC high, channel 165, 5825 MHz, 20 MHz channel bandwidth



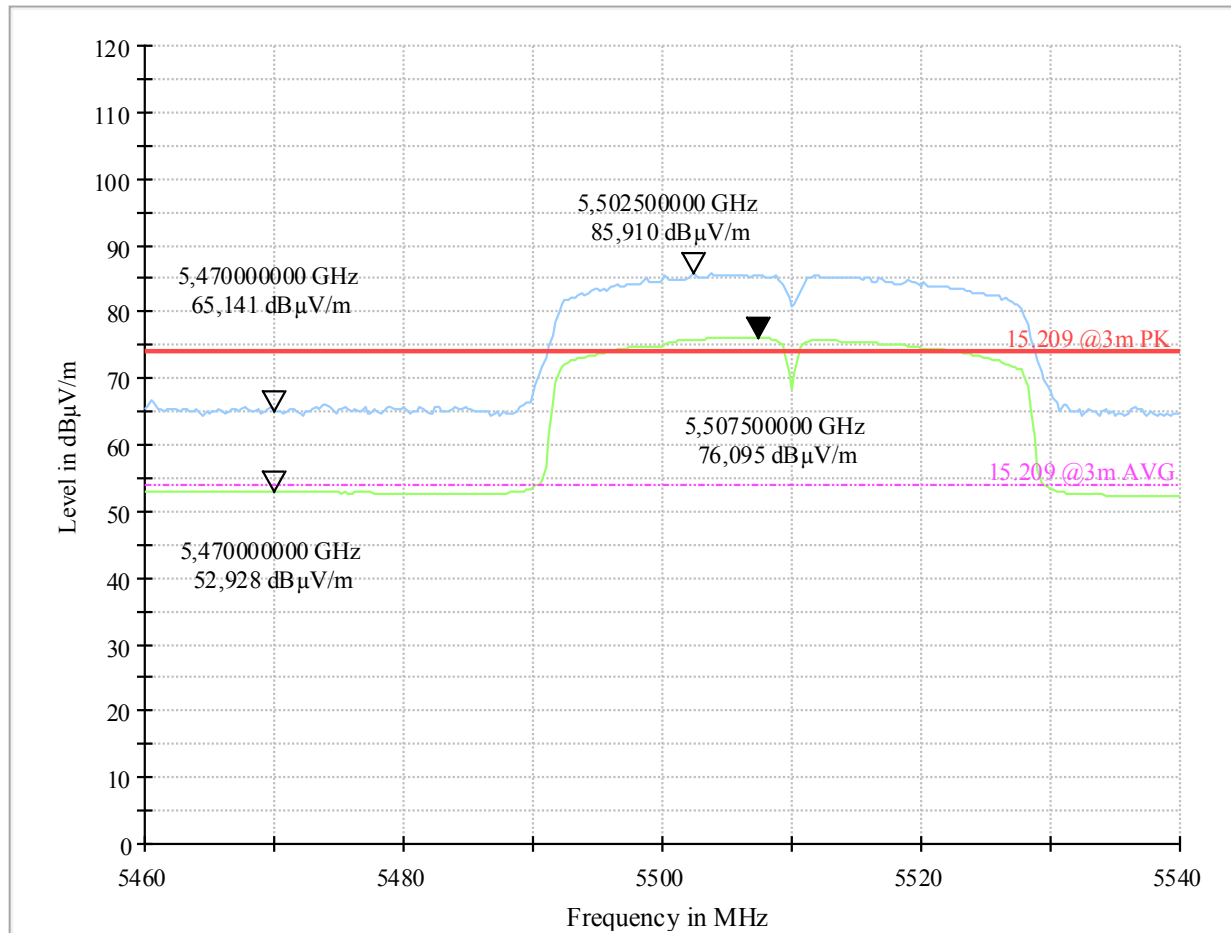
Plot 286: Mode 3, BEC low, channel 38, 5190 MHz, 40 MHz channel bandwidth



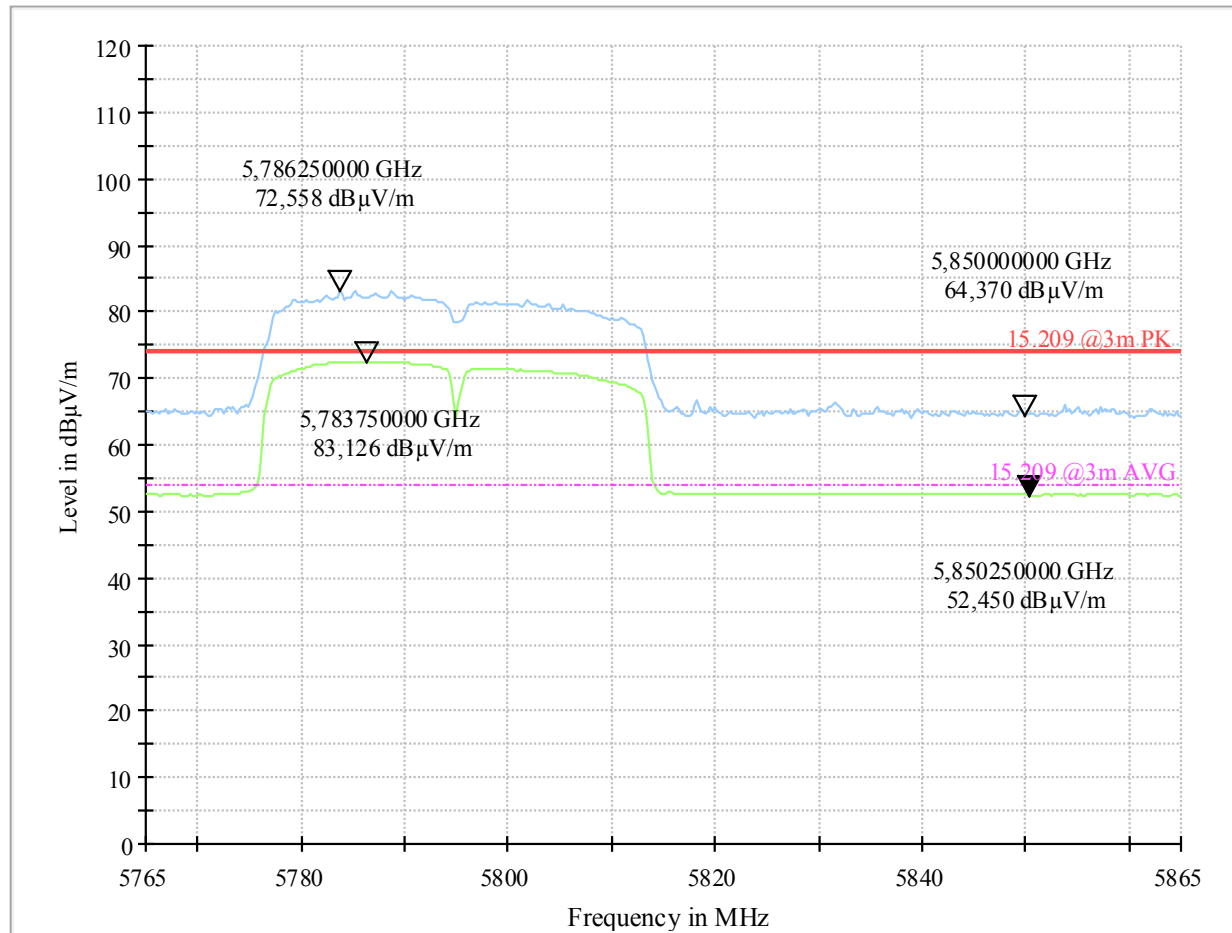
Plot 287: Mode 3, BEC high, channel 62, 5310 MHz, 40 MHz channel bandwidth



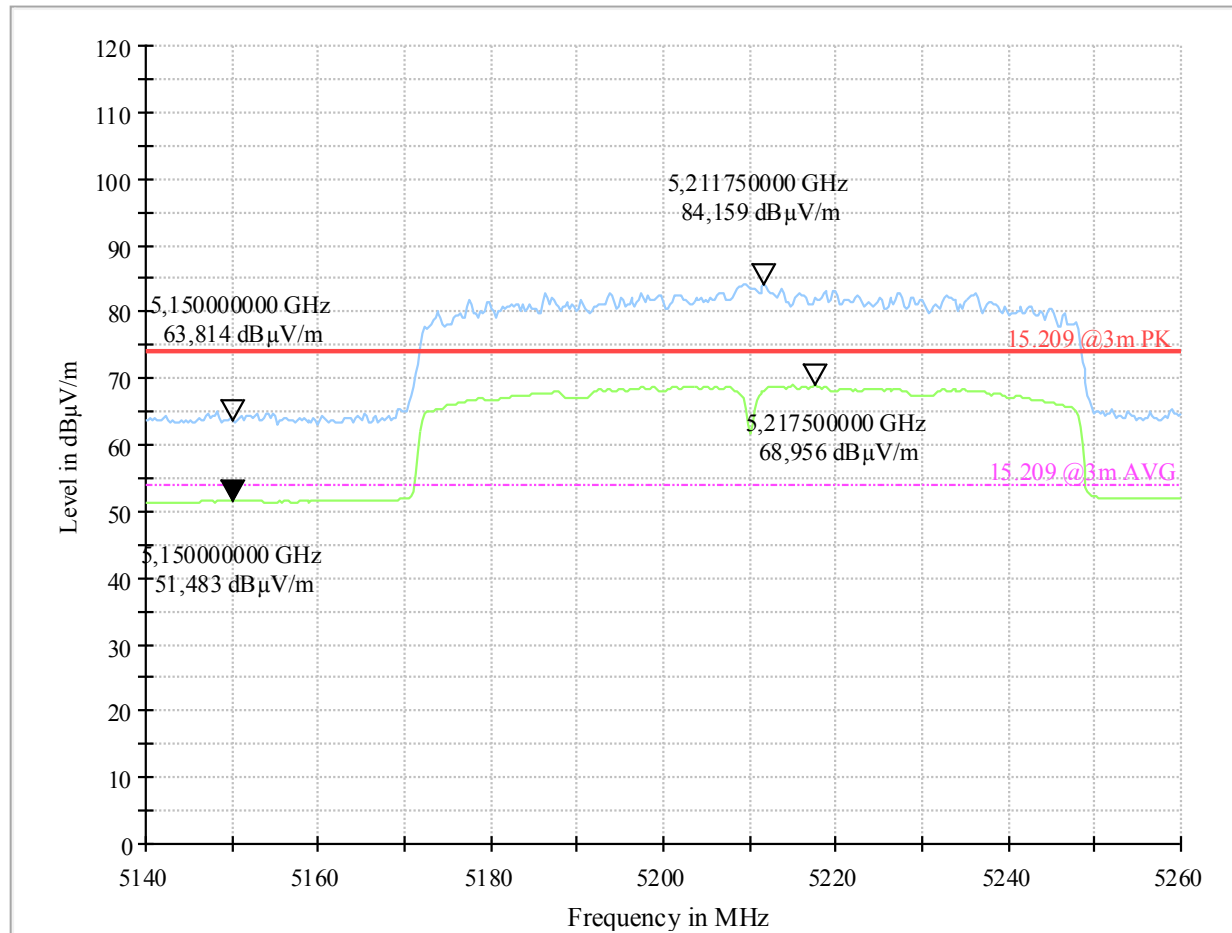
Plot 288: Mode 3, BEC low, channel 102, 5510 MHz, 40 MHz channel bandwidth



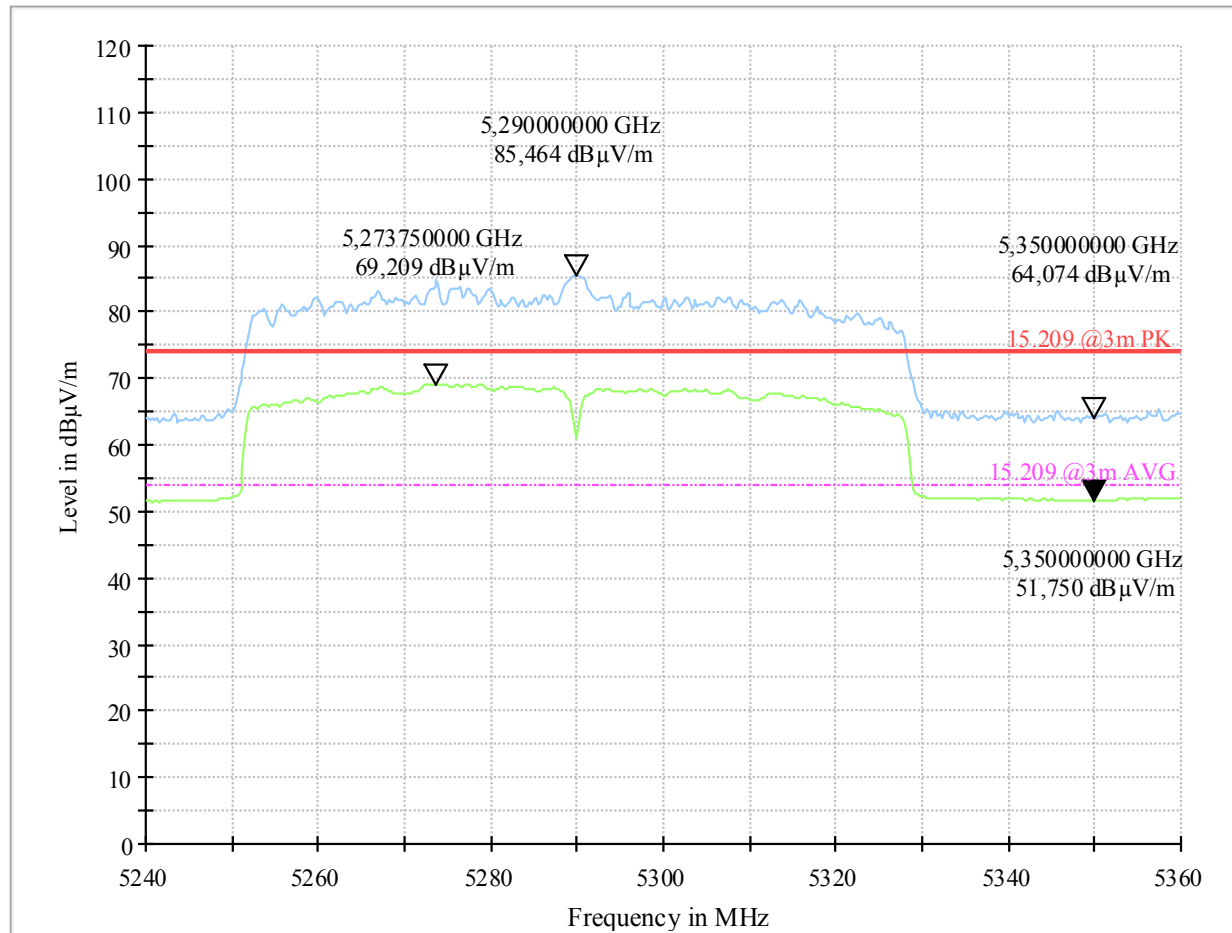
Plot 289: Mode 3, BEC high, channel 159, 5795 MHz, 40 MHz channel bandwidth



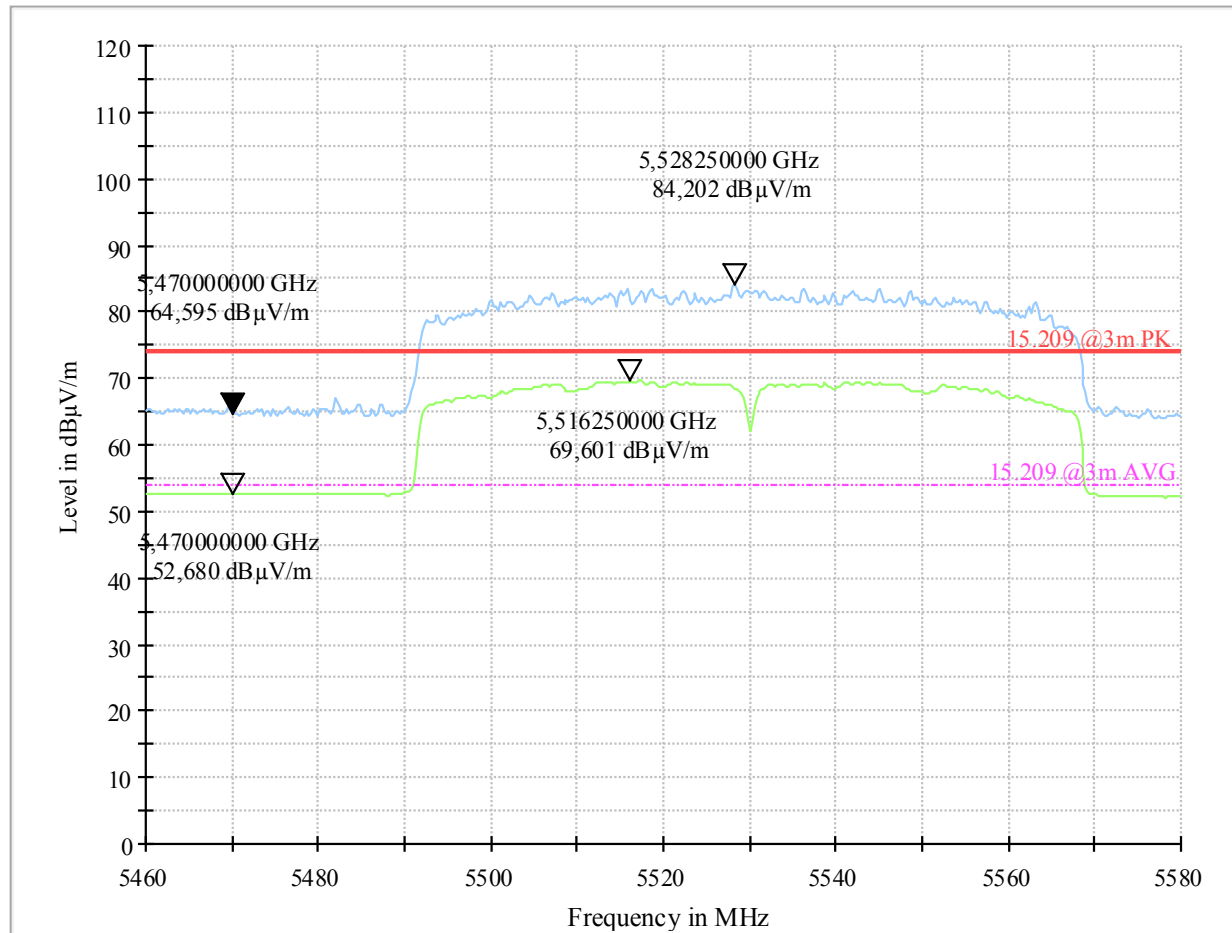
Plot 290: Mode 6, BEC low, channel 42, 5210 MHz, 80 MHz channel bandwidth



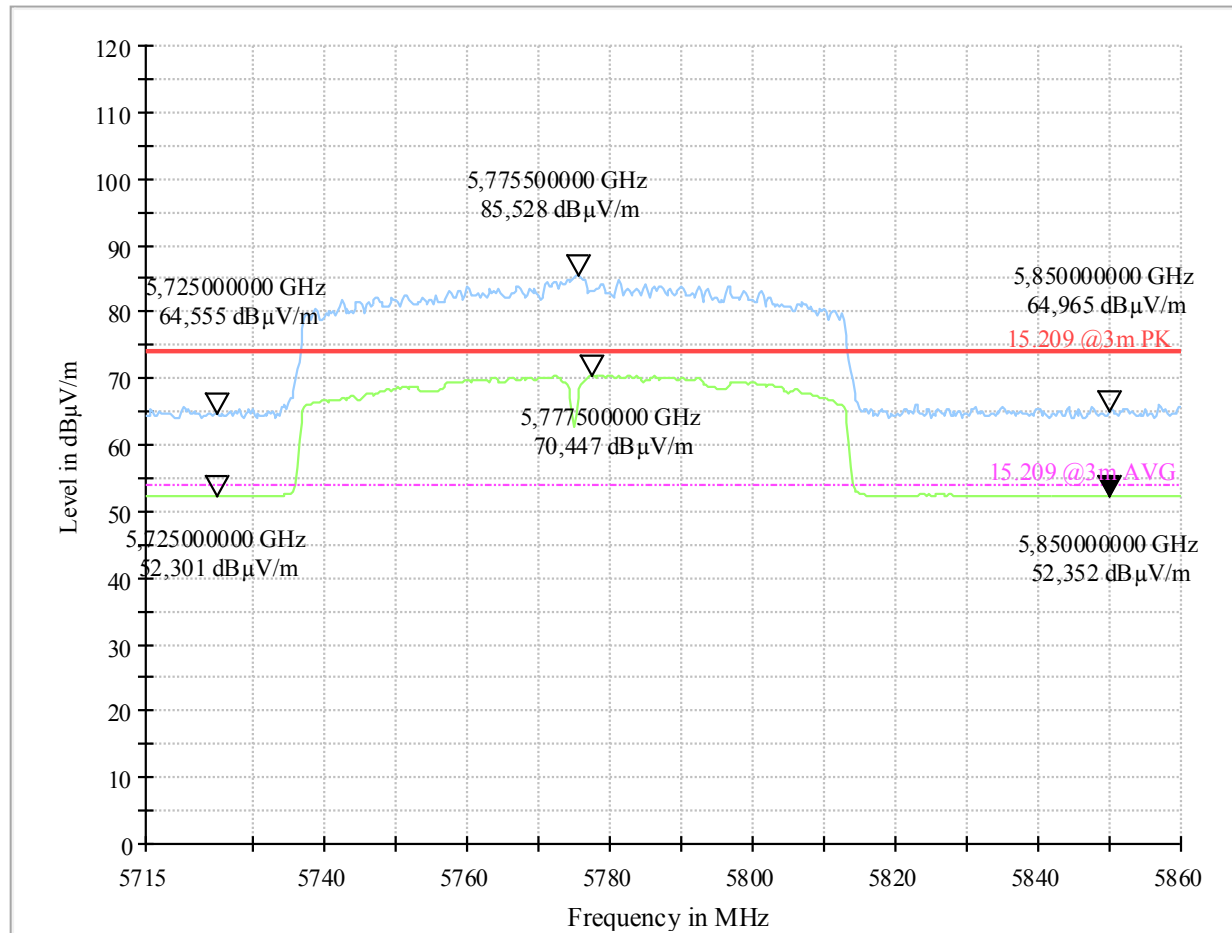
Plot 291: Mode 6, BEC high, channel 58, 5290 MHz, 80 MHz channel bandwidth



Plot 292: Mode 6, BEC low, channel 106, 5530 MHz, 80 MHz channel bandwidth



Plot 293: Mode 6, BEC, channel 155, 5775 MHz, 80 MHz channel bandwidth



7.9 Conducted Spurious Emissions (CSE)

Applicability

This requirement applies to unlicensed National Information Infrastructure (U-NII) devices operating in the 5.15–5.35 GHz, 5.47–5.725 GHz and 5.725–5.85 GHz bands.

Description

Spurious emission / unwanted emissions are emission on a frequency or frequencies which are outside the authorized band and the level of which may be reduced without affecting the corresponding transmission of information. Spurious emissions include harmonic emissions, parasitic emissions, intermodulation products and frequency conversion products.

Limits

§15.407(b)

All emissions out- side of the operational frequency band shall not exceed an e.i.r.p. of-27 dBm/MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

Test procedure

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Test setup: 8.4 with conducted sample (see section 5.2)

Test results: 20 MHz channels					
EUT Mode / Channel	Frequency [MHz]	Peak/RMS Detector	Level [dBm]	Limit [dBm]	Verdict
Mode 1 / channel 36	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 48	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 52	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 64	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 100	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 120	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 140	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 144	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 149	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 157	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 165	see next plots	MaxPeak	see next plots*	see next plots	- passed -

* all detected peaks are more than 6 dB below the limit

Test results: 40 MHz channels					
EUT Mode / Channel	Frequency [MHz]	Peak/RMS Detector	Level [dBm]	Limit [dBm]	Verdict
Mode 3 / channel 38	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 46	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 54	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 62	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 102	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 126	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 142	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 151	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 159	see next plots	MaxPeak	see next plots*	see next plots	- passed -

* all detected peaks are more than 6 dB below the limit

Test results: 80 MHz channels

EUT Mode / Channel	Frequency [MHz]	Peak/RMS Detector	Level [dBm]	Limit [dBm]	Verdict
Mode 6 / channel 42	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 6 / channel 58	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 6 / channel 106	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 6 / channel 122	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 6 / channel 138	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 6 / channel 155	see next plots	MaxPeak	see next plots*	see next plots	- passed -

* all detected peaks are more than 6 dB below the limit

Comment:	---
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Verdict	- PASS -	<i>see next plots</i>
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