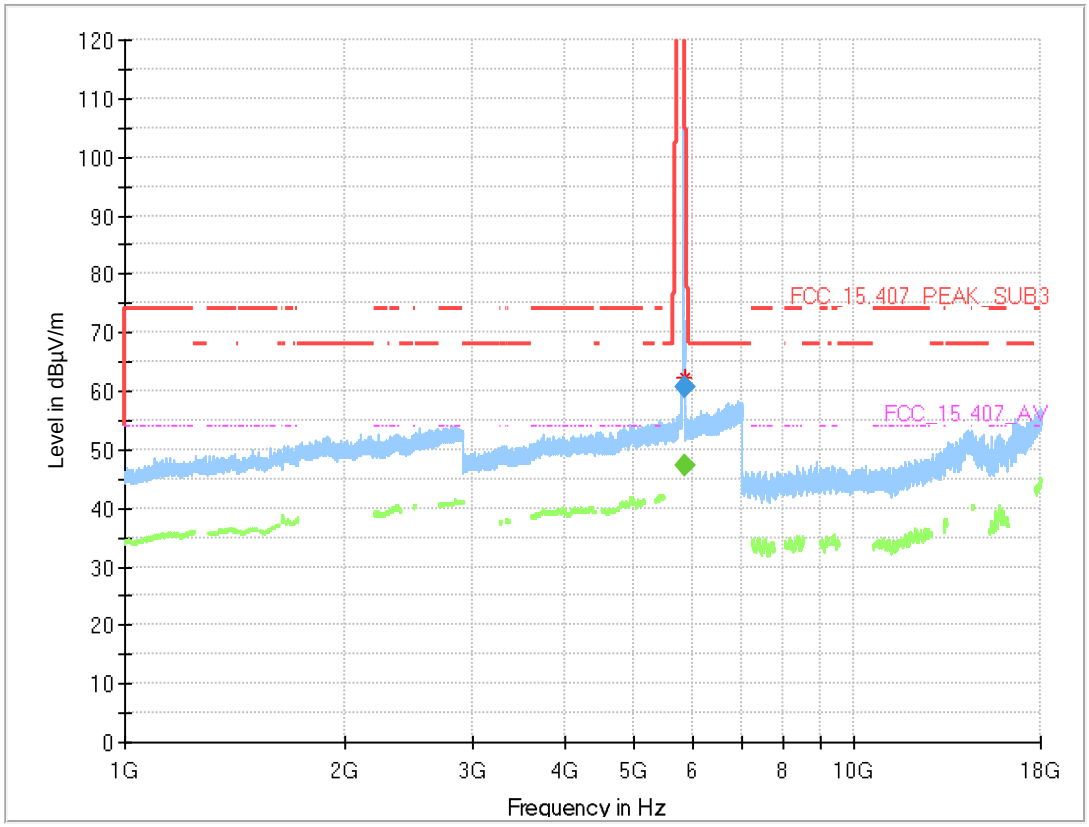
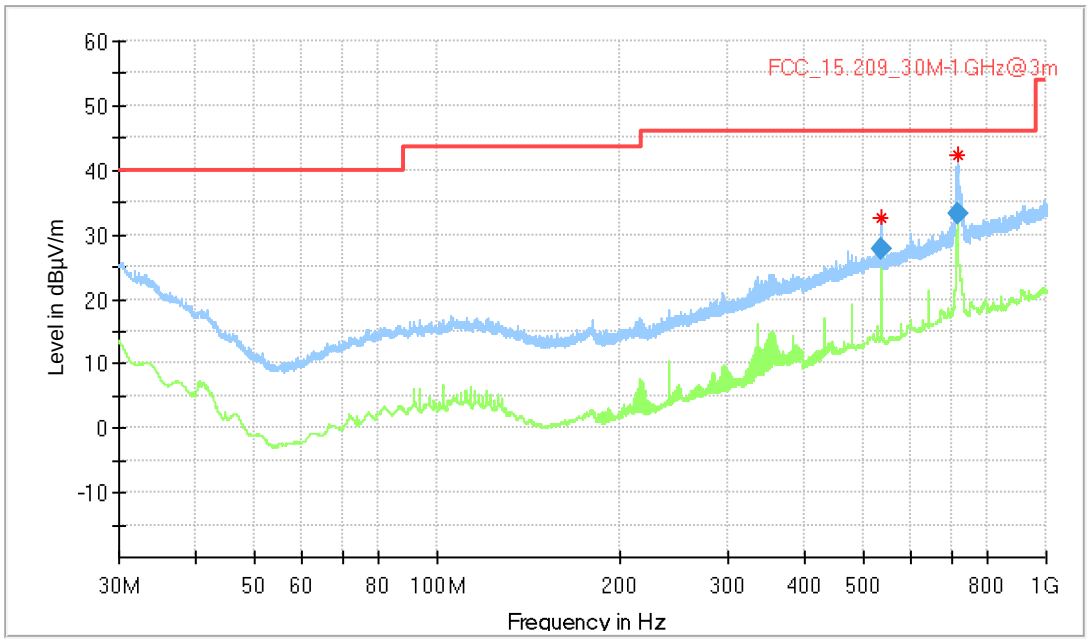
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-3
(S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5850.300	---	47.2	---	---	1000.0	1000.000	150.0	V	-11.0	15.0	15.5
5850.300	60.8	---	121.5	60.75	1000.0	1000.000	150.0	V	-11.0	15.0	15.5

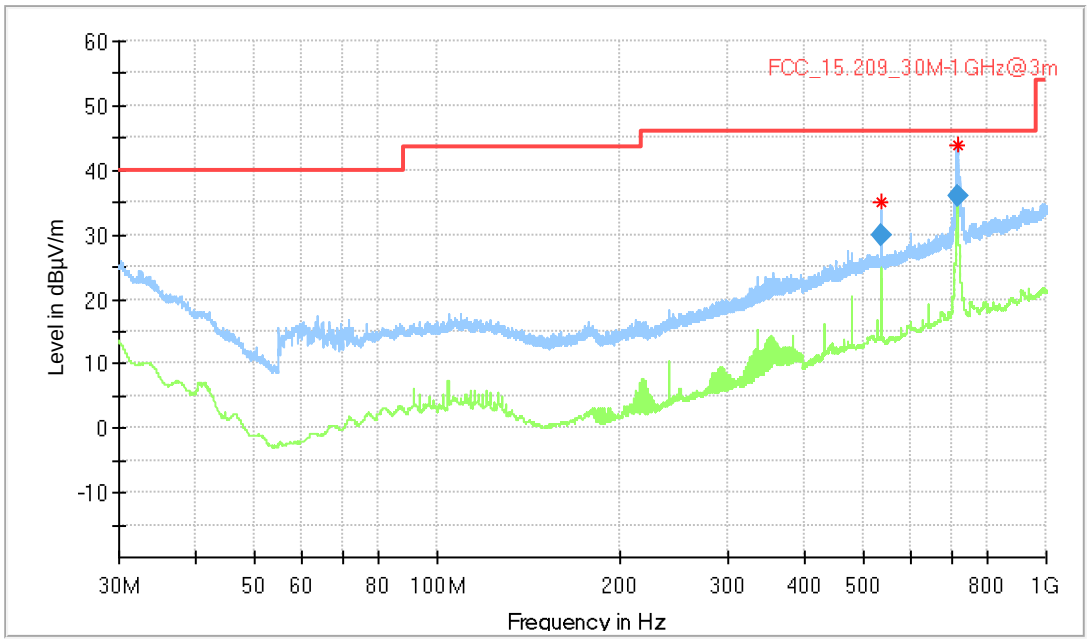
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = low, Measurement range = 30MHz - 1GHz, Subband = U-NII-1
(S06_AJ04)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
535.500000	27.75	46.00	18.25	1000.0	120.000	118.0	V	-198.0	21.4
715.890000	33.11	46.00	12.89	1000.0	120.000	108.0	V	-8.0	25.0

Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Measurement range = 30MHz - 1GHz, Subband = U-NII-3
(S06_AJ04)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
535.500000	29.76	46.00	16.24	1000.0	120.000	107.0	V	-193.0	21.4
715.200000	35.88	46.00	10.12	1000.0	120.000	115.0	V	-12.0	25.0

5.2.5 TEST EQUIPMENT USED

- Radiated Emissions SAC H-Field
- Radiated Emissions FAR 5 GHz FCC
- Radiated Emissions SAC up to 1 GHz

5.3 BAND EDGE

Standard **FCC Part 15 Subpart E**

The test was performed according to:
ANSI C63.10, chapter 6.6.5

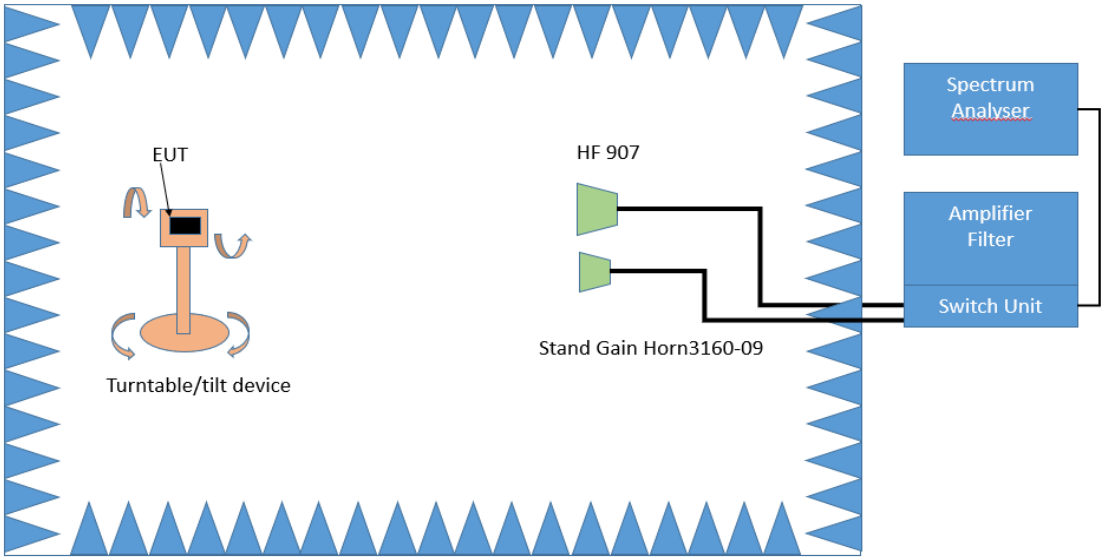
5.3.1 TEST DESCRIPTION

The test set-up was made in accordance to the general provisions of ANSI C63.10 in a typical installation configuration. The measurements were performed according the following sub-chapter of ANSI C63.10:

- Chapter 6.10.5

The Equipment Under Test (EUT) was set up on a non-conductive support (tilt device) at 1.5 m height in the fully-anechoic chamber.
All steps were performed with one height (1.5 m) of the receiving antenna only (procedure according ANSI C63.10, chapter 6.6.5.

3. Measurement above 1 GHz



Test Setup; Spurious Emission Radiated (FAC), 1 GHz-26.5 GHz

Step 1:
The EUT is turned during the preliminary measurement across the elevation axis, with a step size of 90 °.
The turn table step size (azimuth angle) for the preliminary measurement is 45 °.
Spectrum analyser settings:
- Detector: Peak, Average
- RBW = 1 MHz
- VBW = 3 MHz

Step 2:
The turn table azimuth will slowly vary by ± 22.5°.
The elevation angle will slowly vary by ± 45°
Spectrum analyser settings:
- Detector: Peak

Step 3:
Spectrum analyser settings for step 3:
- Detector: Peak / CISPR Average
- Measured frequencies: in step 1 determined frequencies
- RBW = 1 MHz
- VBW = 3 MHz
- Measuring time: 1 s

5.3.2 TEST REQUIREMENTS / LIMITS

A) FCC

FCC Part 15 Subpart E, §15.407 (b)(1)
For transmitters operating in the 5150–5250 MHz band:
Limit: –27 dBm/MHz EIRP outside of the band 5150–5350 MHz.

FCC Part 15 Subpart E, §15.407 (b)(2)
For transmitters operating in the 5250–5350 MHz band:
Limit: –27 dBm/MHz EIRP outside of the band 5150–5350 MHz.

FCC Part 15 Subpart E, §15.407 (b)(3)
For transmitters operating in the 5470–5725 MHz band:
Limit: –27 dBm/MHz EIRP outside of the band 5470–5725 MHz.

FCC Part 15 Subpart E, §15.407 (b)(4)
For transmitters operating in the 5725–5850 MHz band:
Limit: –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
increasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edge
increasing linearly to 27 dBm/MHz at the band edge.

FCC Part 15 Subpart E, §15.407 (b) (5)
For transmitters operating within the 5.925-7.125 GHz band:
Limit: –27 dBm/MHz EIRP outside of the band 5.925-7.125 GHz.

FCC Part 15 Subpart E, §15.407 (b) (6)
For transmitters operating within the 5.925-7.125 GHz bands:
Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

B) IC
Different frequency bands and limits apply, as compared to the FCC requirements.

RSS-247, 6.2.1.2, Emissions outside the band 5150-5250 MHz, indoor operation only:
Limit: –27 dBm/MHz EIRP outside of the band 5150–5250 MHz.

RSS-247, 6.2.2.2, Emissions outside the band 5250-5350 MHz:

Limit: –27 dBm/MHz EIRP outside of the band 5250–5350 MHz.

RSS-247, 6.2.3.2, Emissions outside the bands 5470-5600 MHz and 5650-5725 MHz:
Limit: –27 dBm/MHz EIRP outside of the band 5470–5725 MHz.
However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p.at 5850 MHz instead of 5725 MHz.
Note: No operation is permitted for the frequency range 5600–5650 MHz.

RSS-247, 6.2.4.2, Emissions outside the band 5725-5850 MHz:

a. 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 Bm/MHz at 5 MHz above or below the band edges;
b. 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
c. 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
d. -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

C) FCC & IC

For band edges connected to a restricted band, the limits are specified in Section 15.209(a)

FCC Part 15, Subpart C, §15.209, Radiated Emission Limits

Frequency in MHz	Limit (µV/m)	Measurement distance (m)	Limits (dBµV/m)
0.009 – 0.49	2400/F(kHz)@300m	3	(48.5 – 13.8)@300m
0.49 – 1.705	24000/F(kHz)@30m	3	(33.8 – 23.0)@30m
1.705 – 30	30@30m	3	29.5@30m

The measured values are corrected with an inverse linear distance extrapolation factor (40 dB/decade) according FCC 15.31 (2).

Frequency in MHz	Limit (µV/m)	Measurement distance (m)	Limits (dBµV/m)
30 – 88	100@3m	3	40.0@3m
88 – 216	150@3m	3	43.5@3m
216 – 960	200@3m	3	46.0@3m
960 - 26000	500@3m	3	54.0@3m
26000 - 40000	500@3m	1	54.0@3m

The measured values above 26 GHz are corrected with an inverse linear distance extrapolation factor (20 dB/decade).

§15.35(b) ..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit....

Used conversion factor: Limit (dBµV/m) = 20 log (Limit (µV/m)/1µV/m)

5.3.3 TEST PROTOCOL

Ambient temperature: 20 - 25 °C
Air Pressure: 993 - 1026 hPa
Humidity: 35 – 49 %
WLAN ac-Mode; 20 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 1.2 dB

U-NII-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detec-tor	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type
1	36	5180	5150.0	57.3	PEAK	1000	74.0	16.7	BE-RB
1	36	5180	5150.0	45.9	AV	1000	54.0	8.1	BE-RB
2A	64	5320	5350.0	58.4	PEAK	1000	74.0	15.6	BE-RB
2A	64	5320	5350.0	46.7	AV	1000	54.0	7.3	BE-RB
2C	100	5500	5460.0	58.0	PEAK	1000	74.0	16.0	BE-RB
2C	100	5500	5460.0	46.6	AV	1000	54.0	7.4	BE-RB
2C	100	5500	5470.0	59.5	PEAK	1000	68.2	8.7	BE-UE
2C	140	5700	5725.0	65.9	PEAK	1000	68.2	2.3	BE-UE
3	149	5745	5725.0	75.9	PEAK	1000	122.2	46.3	BE-UE
3	165	5825	5850.0	61.9	PEAK	1000	122.2	60.3	BE-UE

WLAN ac-Mode; 40 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 1.3 dB

U-NII-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detec-tor	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type
1	38	5190	5150.0	61.1	PEAK	1000	74.0	12.9	BE-RB
1	38	5190	5150.0	48.9	AV	1000	54.0	5.1	BE-RB
2A	62	5310	5350.0	60.3	PEAK	1000	74.0	13.7	BE-RB
2A	62	5310	5350.0	48.5	AV	1000	54.0	5.5	BE-RB
2C	102	5510	5460.0	63.4	PEAK	1000	74.0	10.6	BE-RB
2C	102	5510	5460.0	48.2	AV	1000	54.0	5.8	BE-RB
2C	102	5510	5470.0	63.6	PEAK	1000	68.2	4.6	BE-UE
2C	134	5670	5725.0	66.8	PEAK	1000	68.2	1.4	BE-UE
3	151	5755	5725.0	83.0	PEAK	1000	119.7	36.7	BE-UE
3	159	5795	5850.0	66.5	PEAK	1000	122.0	55.5	BE-UE

WLAN ax-Mode; 20 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 1.2 dB

U-NII-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detec-tor	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type
1	36	5180	5150.0	56.8	PEAK	1000	74.0	17.2	BE-RB
1	36	5180	5150.0	45.3	AV	1000	54.0	8.7	BE-RB
2A	64	5320	5350.0	60.9	PEAK	1000	74.0	13.1	BE-RB
2A	64	5320	5350.0	47.6	AV	1000	54.0	6.4	BE-RB
2C	100	5500	5460.0	59.2	PEAK	1000	74.0	14.8	BE-RB
2C	100	5500	5460.0	47.7	AV	1000	54.0	6.3	BE-RB
2C	100	5500	5470.0	60.2	PEAK	1000	68.2	8.0	BE-UE
2C	140	5700	5725.0	67.5	PEAK	1000	68.2	0.7	BE-UE
3	149	5745	5725.0	76.7	PEAK	1000	122.0	45.3	BE-UE
3	165	5825	5850.0	61.4	PEAK	1000	120.6	59.2	BE-UE

WLAN ax-Mode; 40 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 1.2 dB

U-NII-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detec-tor	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type
1	38	5190	5150.0	67.1	PEAK	1000	74.0	6.9	BE-RB
1	38	5190	5150.0	53.0	AV	1000	54.0	1.0	BE-RB
2A	62	5310	5350.0	60.1	PEAK	1000	74.0	13.9	BE-RB
2A	62	5310	5350.0	48.2	AV	1000	54.0	5.8	BE-RB
2C	102	5510	5460.0	63.7	PEAK	1000	74.0	10.3	BE-RB
2C	102	5510	5460.0	49.1	AV	1000	54.0	4.9	BE-RB
2C	102	5510	5470.0	66.2	PEAK	1000	68.2	2.0	BE-UE
2C	134	5670	5725.0	64.9	PEAK	1000	68.2	3.3	BE-UE
3	151	5755	5725.0	86.5	PEAK	1000	121.2	34.7	BE-UE
3	159	5795	5850.0	67.2	PEAK	1000	119.5	52.3	BE-UE

WLAN ax-Mode; 80 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 1.2 dB

U-NII-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detec-tor	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type
1	42	5210	5150.0	63.9	PEAK	1000	74.0	10.1	BE-RB
1	42	5210	5150.0	49.9	AV	1000	54.0	4.1	BE-RB
3	155	5775	5725.0	86.6	PEAK	1000	119.2	32.6	BE-UE
3	155	5775	5850.0	82.2	PEAK	1000	121.5	39.3	BE-UE

WLAN a-Mode; 20 MHz; 6 Mbit/s; Diversity
Applied duty cycle correction (AV): 0.6 dB

U-NII-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detec-tor	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type
1	36	5180	5150.0	59.1	PEAK	1000	74.0	14.9	BE-RB
1	36	5180	5150.0	46.3	AV	1000	54.0	7.7	BE-RB
2A	64	5320	5350.0	59.6	PEAK	1000	74.0	14.4	BE-RB
2A	64	5320	5350.0	46.4	AV	1000	54.0	7.6	BE-RB
2C	100	5500	5460.0	57.8	PEAK	1000	74.0	16.2	BE-RB
2C	100	5500	5460.0	45.4	AV	1000	54.0	8.6	BE-RB
2C	100	5500	5470.0	59.2	PEAK	1000	68.2	9.0	BE-UE
2C	140	5700	5725.0	61.4	PEAK	1000	68.2	6.8	BE-UE
3	149	5745	5725.0	75.1	PEAK	1000	122.0	46.9	BE-UE
3	165	5825	5850.0	61.3	PEAK	1000	122.2	60.9	BE-UE

WLAN n-Mode; 20 MHz; MCS 8; MIMO
Applied duty cycle correction (AV): 1.2 dB

U-NII-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detec-tor	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type
1	36	5180	5150.0	58.8	PEAK	1000	74.0	15.2	BE-RB
1	36	5180	5150.0	46.8	AV	1000	54.0	7.2	BE-RB
2A	64	5320	5350.0	59.5	PEAK	1000	74.0	14.5	BE-RB
2A	64	5320	5350.0	47.3	AV	1000	54.0	6.7	BE-RB
2C	100	5500	5460.0	58.5	PEAK	1000	74.0	15.5	BE-RB
2C	100	5500	5460.0	47.0	AV	1000	54.0	7.0	BE-RB
2C	100	5500	5470.0	58.6	PEAK	1000	68.2	9.6	BE-UE
2C	140	5700	5725.0	58.7	PEAK	1000	68.2	9.5	BE-UE
3	149	5745	5725.0	73.1	PEAK	1000	122.2	49.1	BE-UE
3	165	5825	5850.0	60.8	PEAK	1000	121.5	60.7	BE-UE

WLAN n-Mode; 40 MHz; MCS 8; MIMO
Applied duty cycle correction (AV): 1.3 dB

U-NII-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detec-tor	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type
1	38	5190	5150.0	67.6	PEAK	1000	74.0	6.4	BE-RB
1	38	5190	5150.0	51.6	AV	1000	54.0	2.4	BE-RB
2A	62	5310	5350.0	63.8	PEAK	1000	74.0	10.2	BE-RB
2A	62	5310	5350.0	50.7	AV	1000	54.0	3.3	BE-RB
2C	102	5510	5460.0	62.1	PEAK	1000	74.0	11.9	BE-RB
2C	102	5510	5460.0	49.3	AV	1000	54.0	4.7	BE-RB
2C	102	5510	5470.0	66.6	PEAK	1000	68.2	1.6	BE-UE
2C	134	5670	5725.0	68.0	PEAK	1000	68.2	0.2	BE-UE
3	151	5755	5725.0	86.9	PEAK	1000	121.9	35.0	BE-UE
3	159	5795	5850.0	65.7	PEAK	1000	120.1	54.4	BE-UE

WLAN ac-Mode; 40 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 1.3 dB

U-NII-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detec-tor	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type
2C	134	5670	5725.0	64.9	PEAK	1000	68.2	3.3	BE-UE

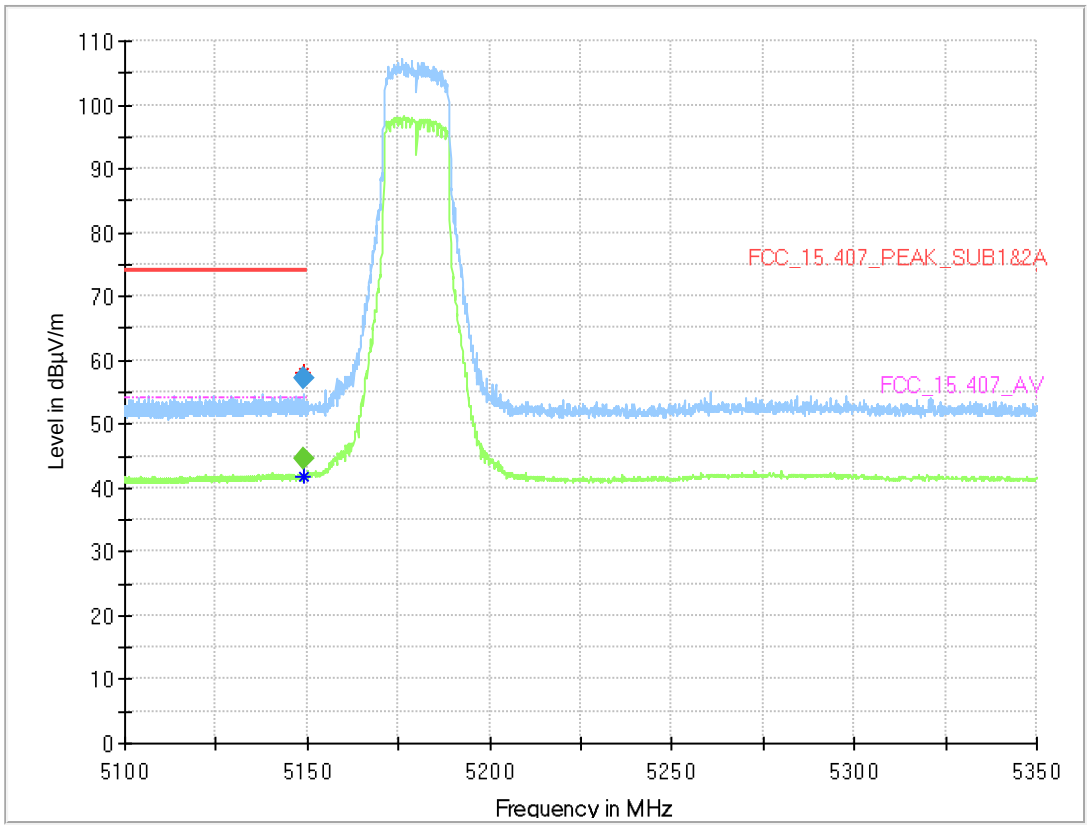
WLAN ac-Mode; 80 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 1.3 dB

U-NII-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detec-tor	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type
1	42	5210	5150.0	68.4	PEAK	1000	74.0	5.6	BE-RB
1	42	5210	5150.0	53.8	AV	1000	54.0	0.2	BE-RB
3	155	5775	5725.0	86.9	PEAK	1000	122.0	35.1	BE-UE
3	155	5775	5850.0	82.3	PEAK	1000	118.3	36.0	BE-UE

Remark: Please see next sub-clause for the measurement plot.

5.3.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

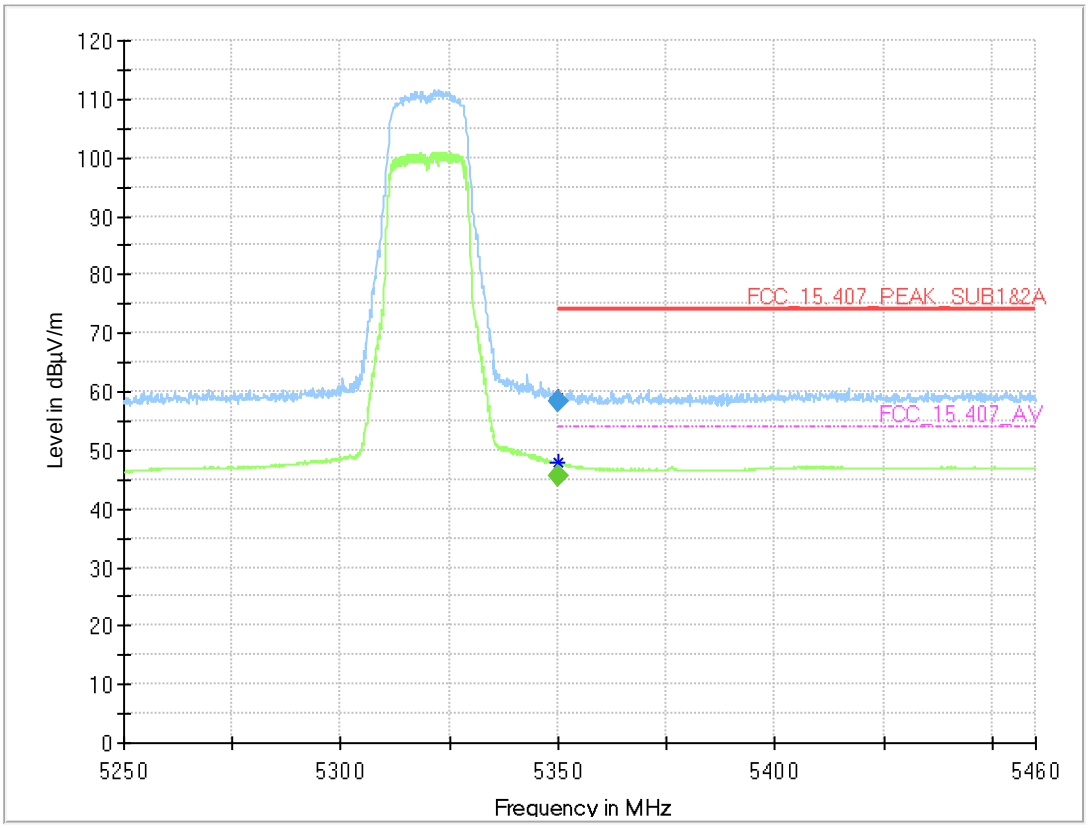
Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Subband = U-NII-1 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5149.263	---	44.7	54.00	9.35	1000.0	1000.000	150.0	H	-34.0	80.0	14.5
5149.263	57.3	---	74.00	16.75	1000.0	1000.000	150.0	H	-34.0	80.0	14.5

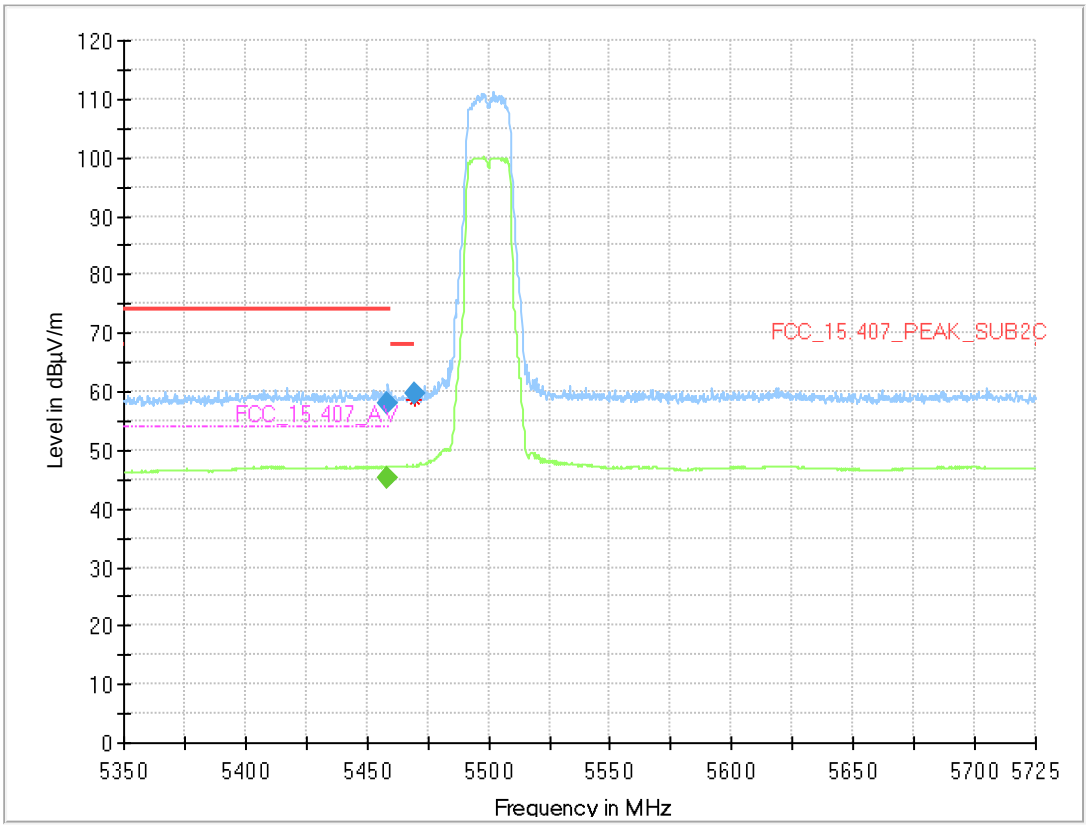
Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-2A (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5350.013	---	45.5	54.00	8.53	1000.0	1000.000	150.0	V	-4.0	10.0	14.9
5350.013	58.4	---	74.00	15.56	1000.0	1000.000	150.0	V	-4.0	10.0	14.9

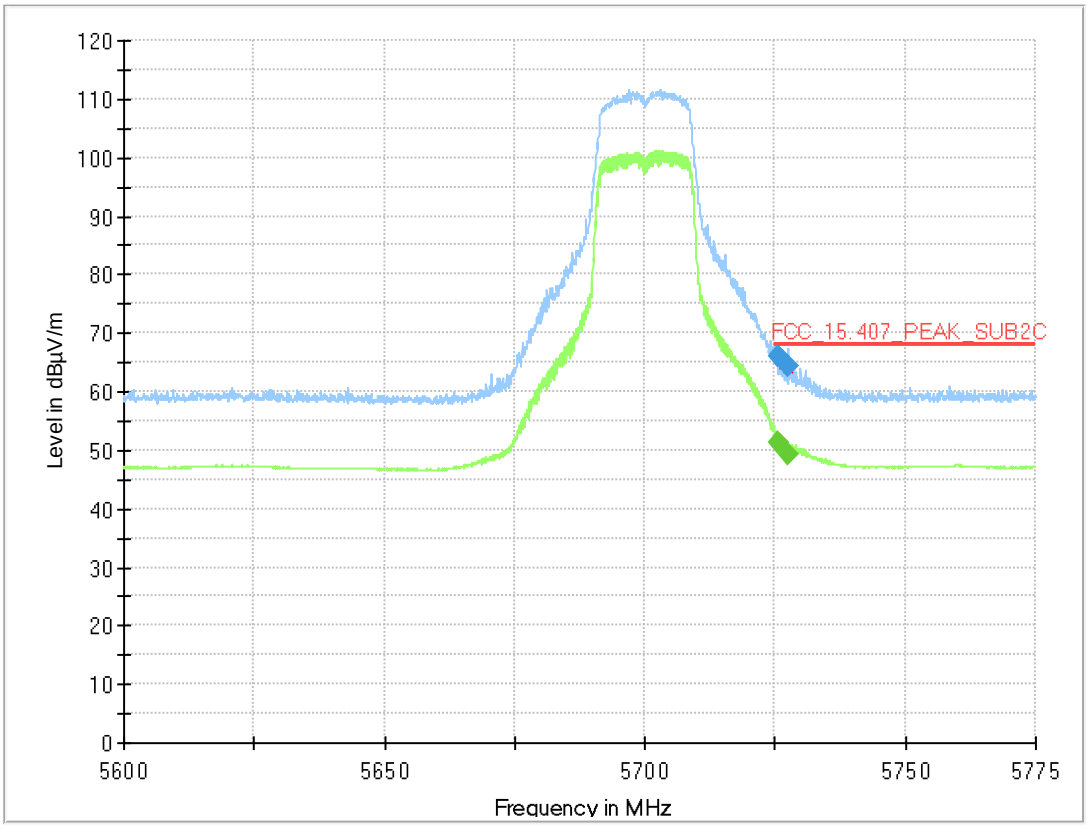
Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5458.516	---	45.4	54.00	8.63	1000.0	1000.000	150.0	V	-7.0	7.0	15.4
5458.516	58.0	---	74.00	16.00	1000.0	1000.000	150.0	H	11.0	15.0	15.4
5469.531	59.5	---	68.20	8.70	1000.0	1000.000	150.0	V	133.0	-15.0	15.1

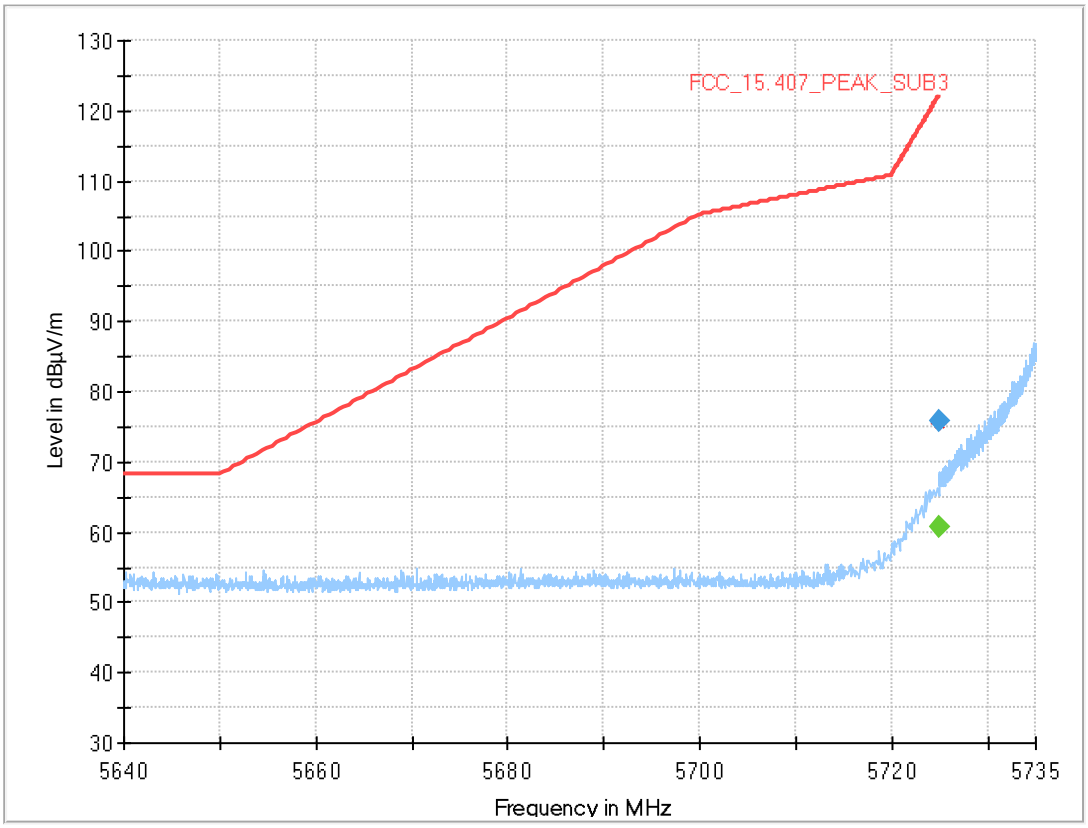
Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.563	---	51.2	---	---	1000.0	1000.000	150.0	H	34.0	82.0	15.4
5725.563	65.9	---	68.20	2.29	1000.0	1000.000	150.0	H	34.0	82.0	15.4
5727.400	---	49.4	---	---	1000.0	1000.000	150.0	H	43.0	88.0	15.4
5727.400	64.2	---	68.20	3.99	1000.0	1000.000	150.0	H	43.0	88.0	15.4

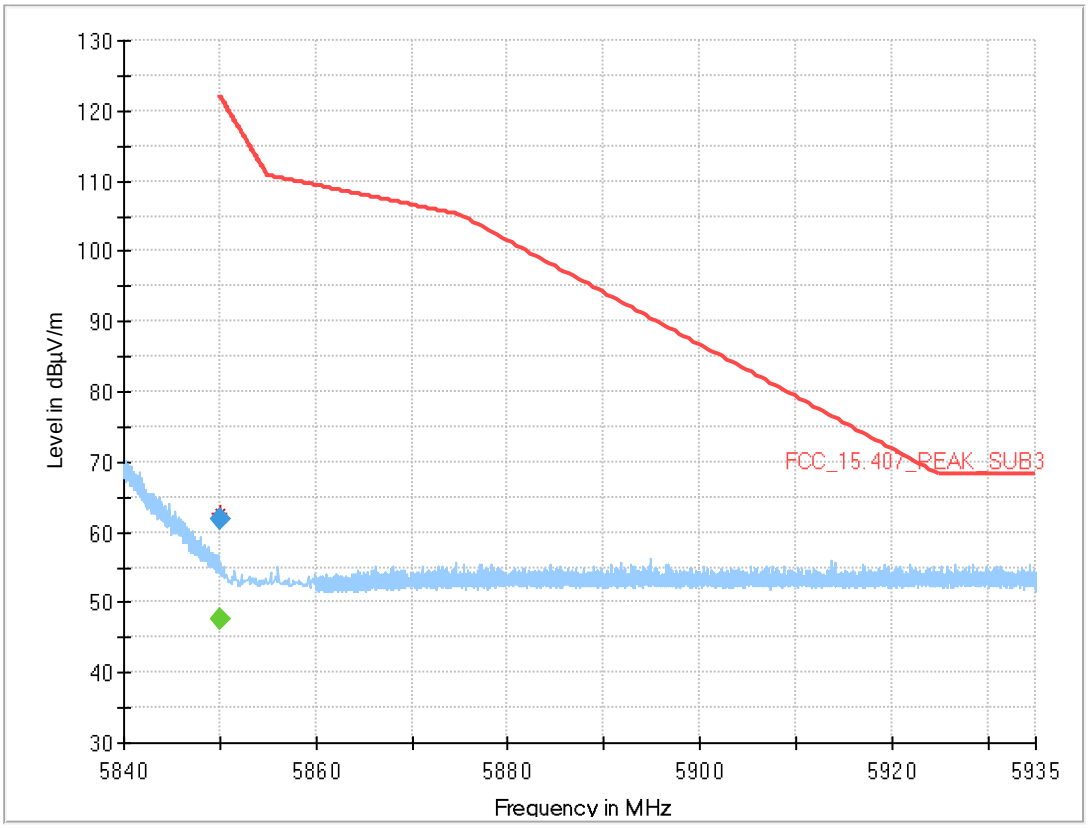
Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.000	---	60.7	---	---	1000.0	1000.000	150.0	H	34.0	94.0	15.4
5725.000	75.9	---	122.2	46.35	1000.0	1000.000	150.0	H	34.0	94.0	15.4

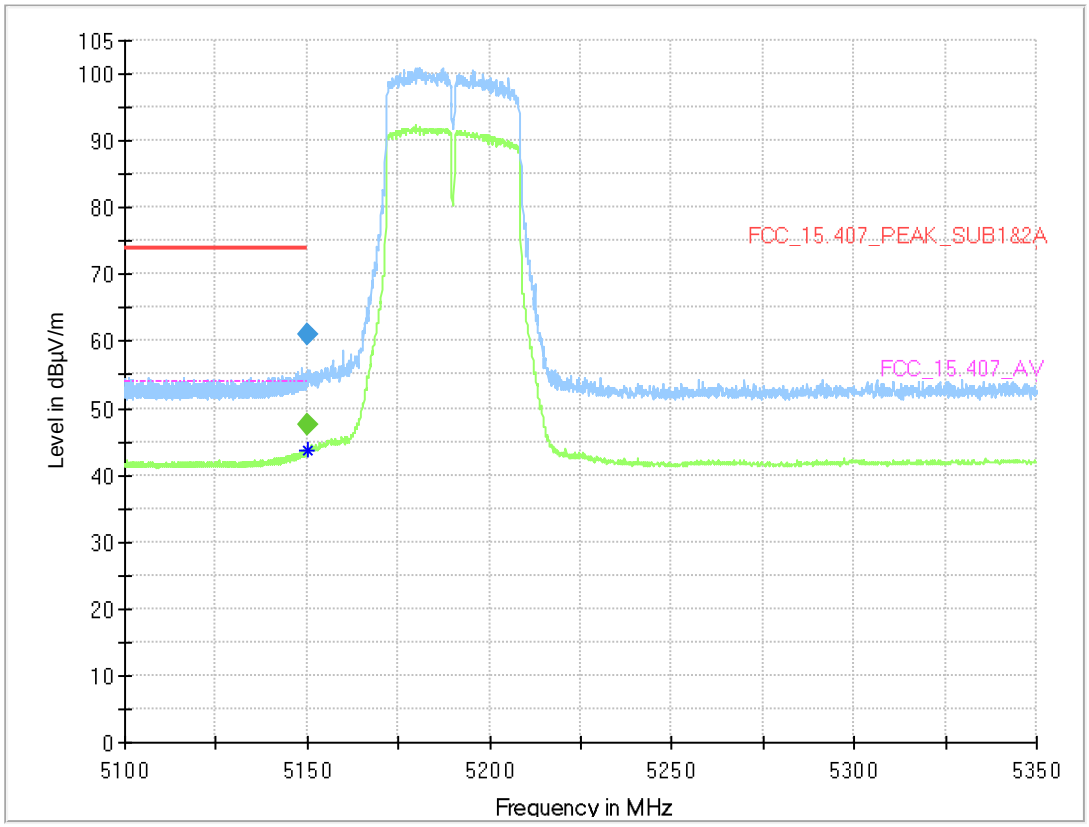
Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5850.000	---	47.6	---	---	1000.0	1000.000	150.0	H	34.0	86.0	15.5
5850.000	61.9	---	122.2	60.34	1000.0	1000.000	150.0	H	34.0	86.0	15.5

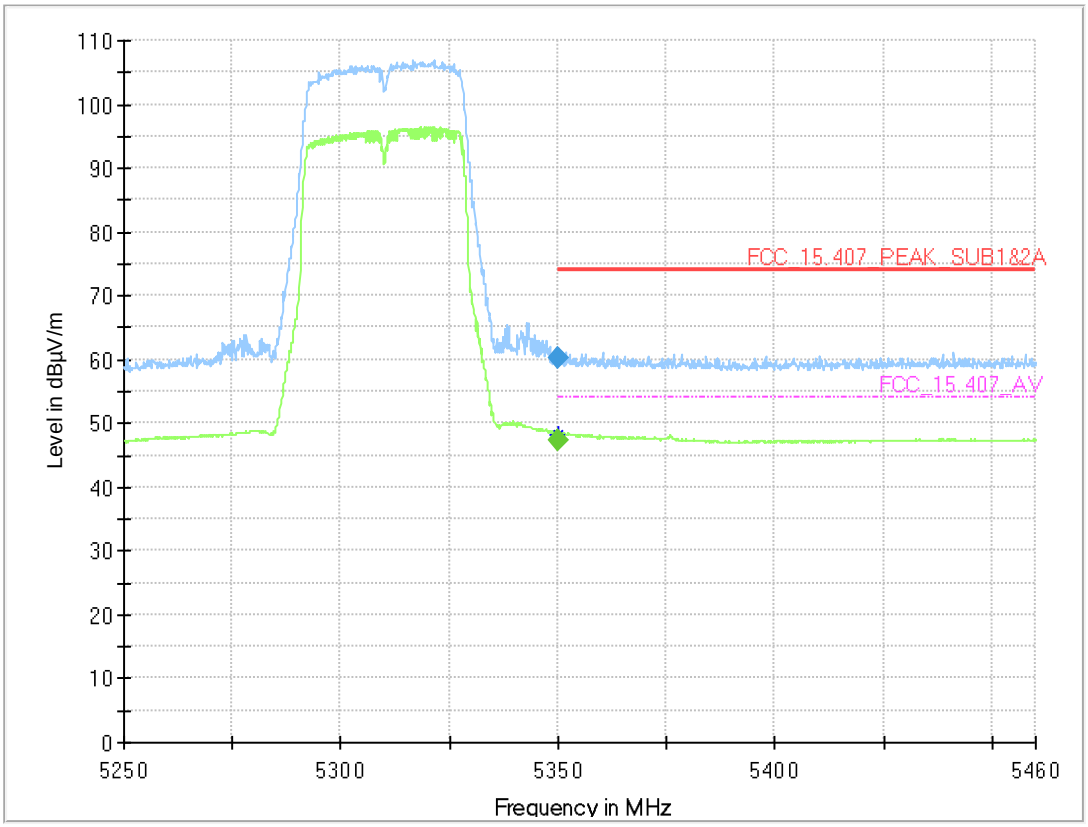
Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-1 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5150.000	---	47.6	54.00	6.37	1000.0	1000.000	150.0	V	44.0	15.0	14.5
5150.000	61.1	---	74.00	12.89	1000.0	1000.000	150.0	V	44.0	15.0	14.5

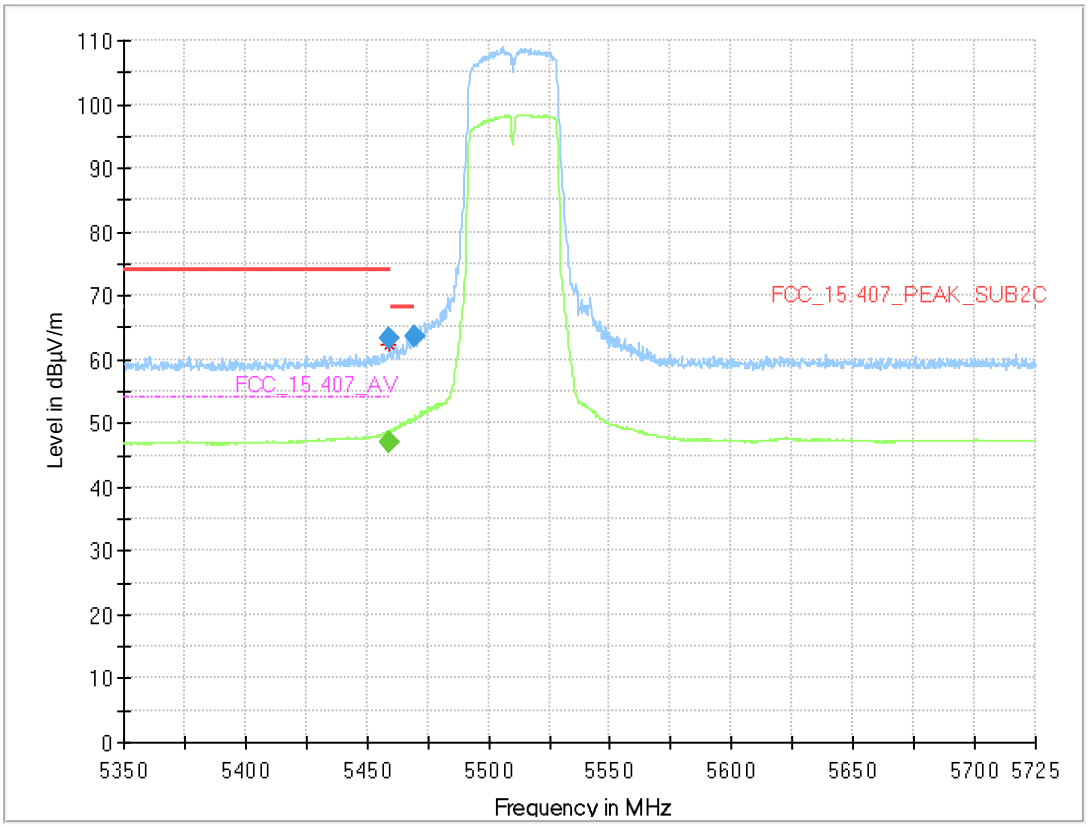
Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-2A (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5350.013	---	47.2	54.00	6.80	1000.0	1000.000	150.0	H	79.0	80.0	14.9
5350.013	60.3	---	74.00	13.66	1000.0	1000.000	150.0	H	79.0	80.0	14.9

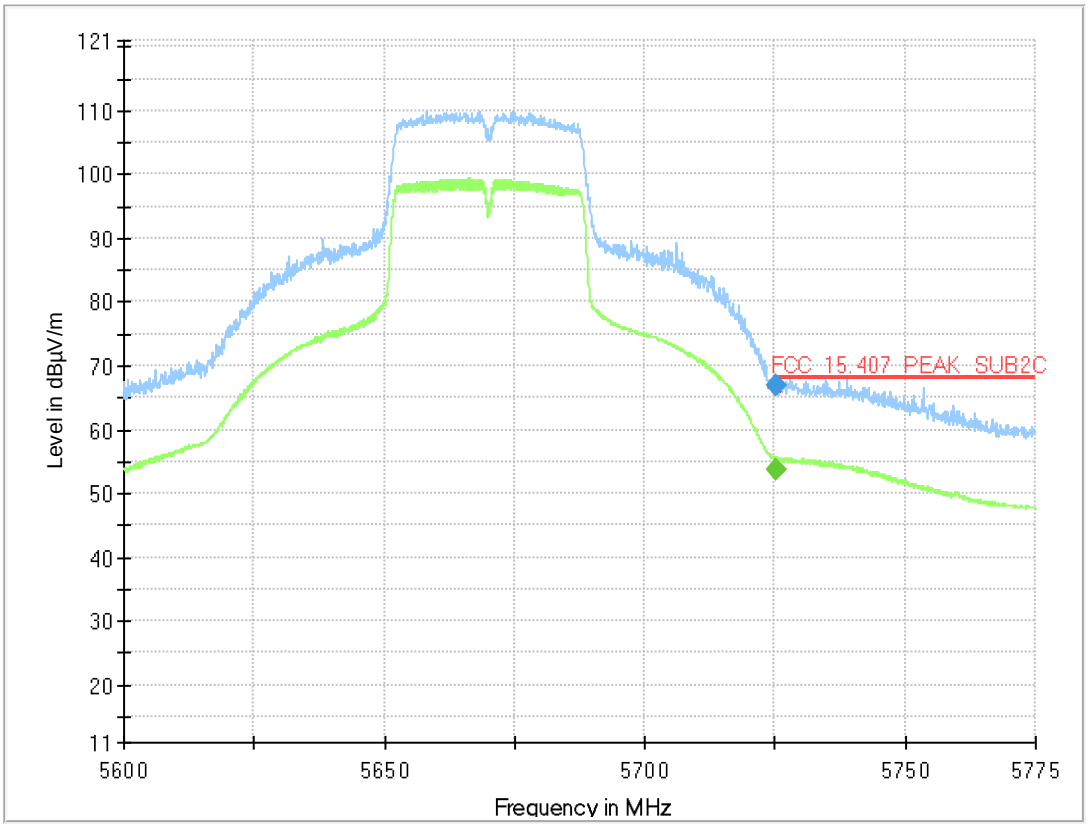
Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5459.453	---	46.9	54.00	7.12	1000.0	1000.000	150.0	H	-3.0	97.0	15.4
5459.453	63.4	---	74.00	10.60	1000.0	1000.000	150.0	H	-4.0	100.0	15.4
5469.297	63.6	---	68.20	4.55	1000.0	1000.000	150.0	H	-46.0	103.0	15.1

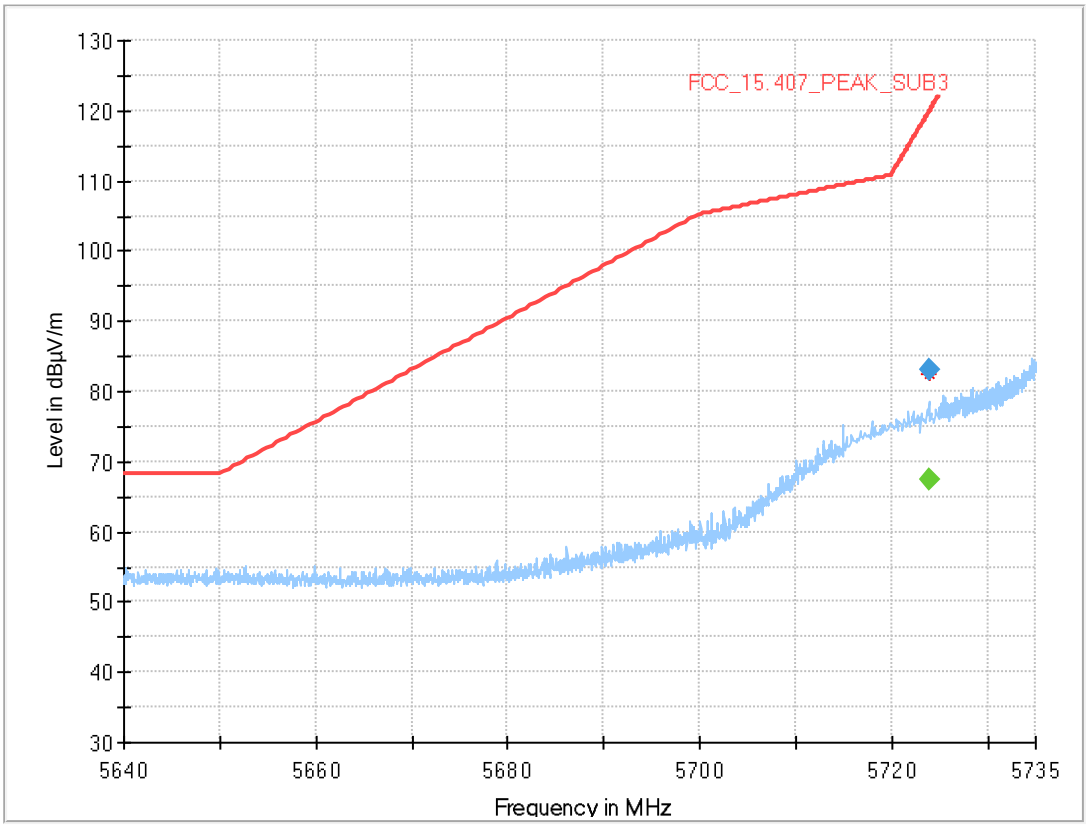
Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.300	---	53.6	---	---	1000.0	1000.000	150.0	H	-46.0	88.0	15.4
5725.300	66.8	---	68.20	1.37	1000.0	1000.000	150.0	H	-46.0	88.0	15.4

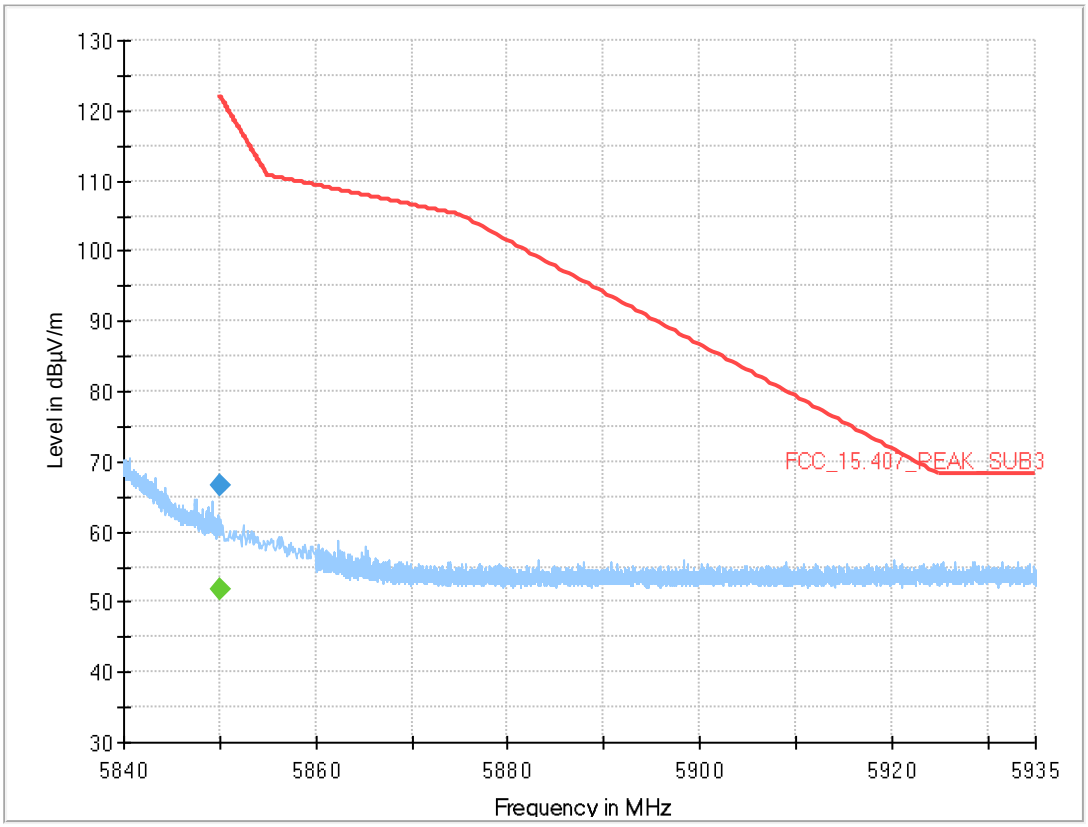
Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5723.900	---	67.4	---	---	1000.0	1000.000	150.0	H	-1.0	75.0	15.4
5723.900	83.0	---	119.6	36.71	1000.0	1000.000	150.0	H	-1.0	75.0	15.4

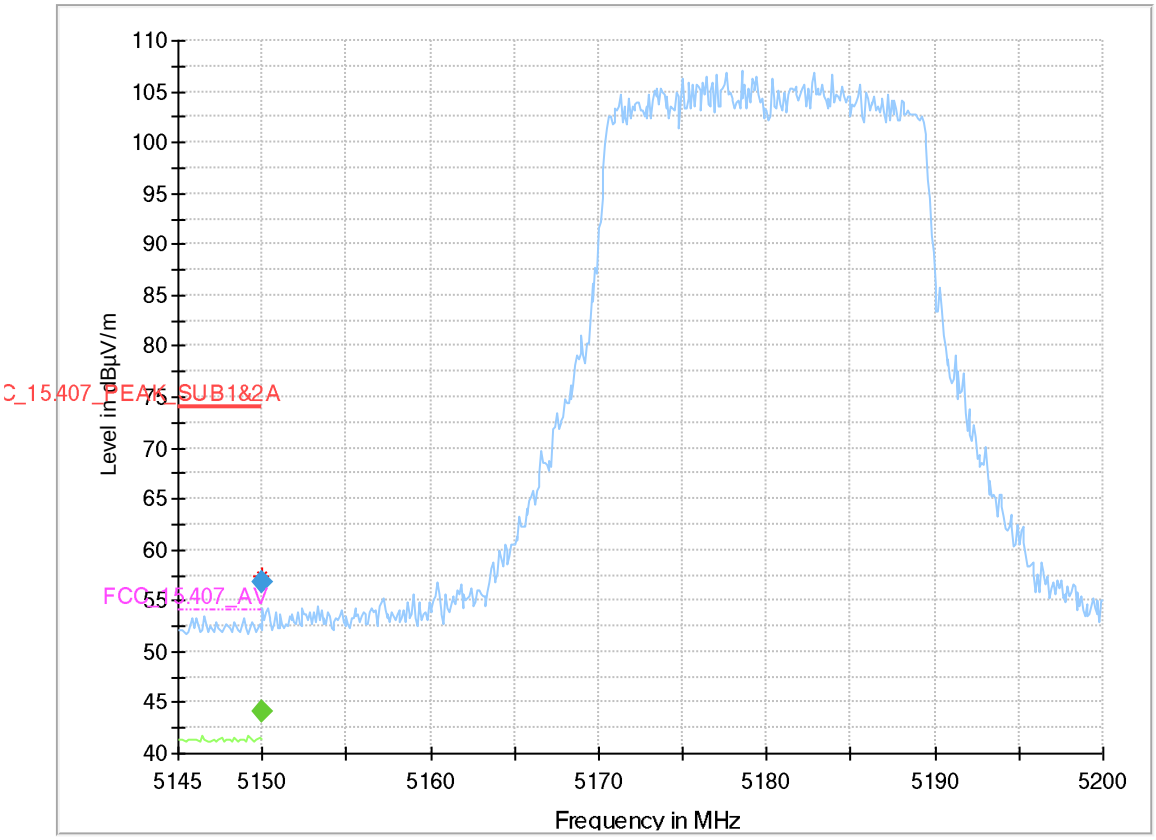
Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5850.100	---	51.9	---	---	1000.0	1000.000	150.0	H	-45.0	90.0	15.5
5850.100	66.5	---	121.9	55.46	1000.0	1000.000	150.0	H	-45.0	90.0	15.5

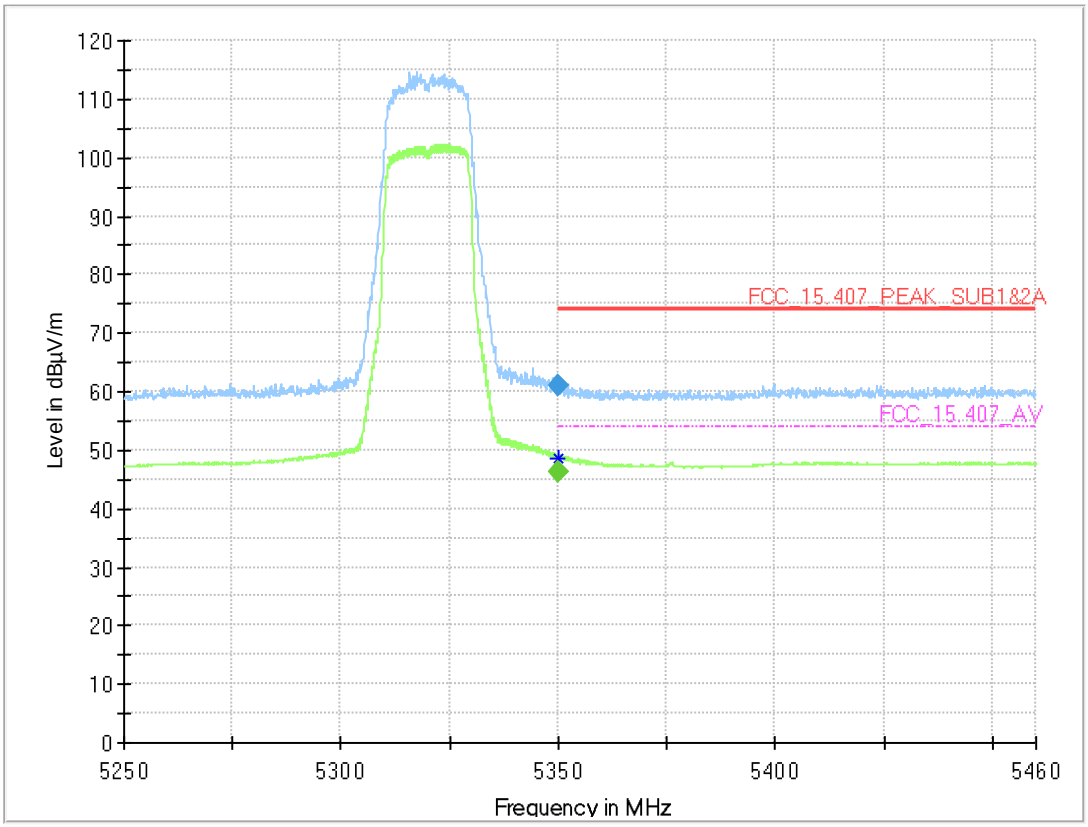
Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-1 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5150.000	---	44.1	---	---	1000.0	1000.000	150.0	H	80.0	-4.0	14.5
5150.000	56.8	---	---	---	1000.0	1000.000	150.0	H	80.0	-4.0	14.5

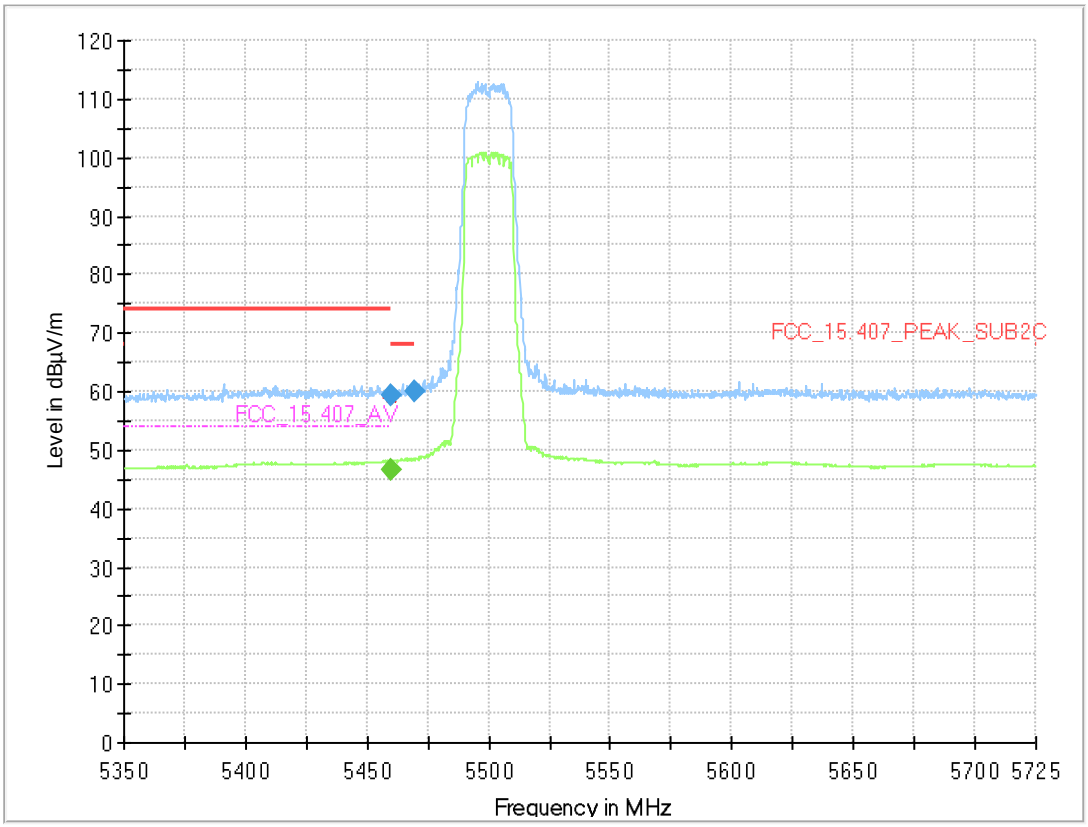
Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-2A (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5350.144	---	46.4	54.00	7.60	1000.0	1000.000	150.0	H	-50.0	92.0	15.2
5350.144	60.9	---	74.00	13.12	1000.0	1000.000	150.0	H	-50.0	92.0	15.2

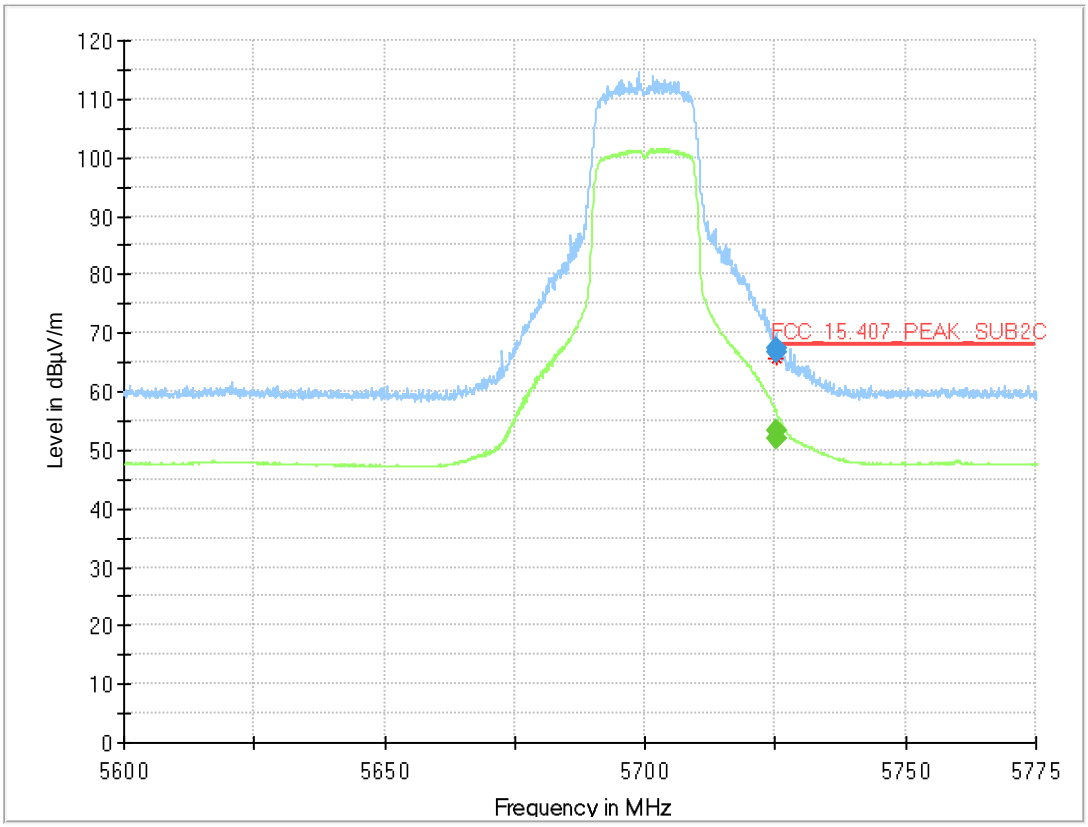
Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5459.688	---	46.5	54.00	7.54	1000.0	1000.000	150.0	V	-130.0	-15.0	15.9
5459.688	59.2	---	74.00	14.80	1000.0	1000.000	150.0	V	-34.0	84.0	15.9
5469.297	60.2	---	68.20	8.04	1000.0	1000.000	150.0	H	-34.0	103.0	15.7

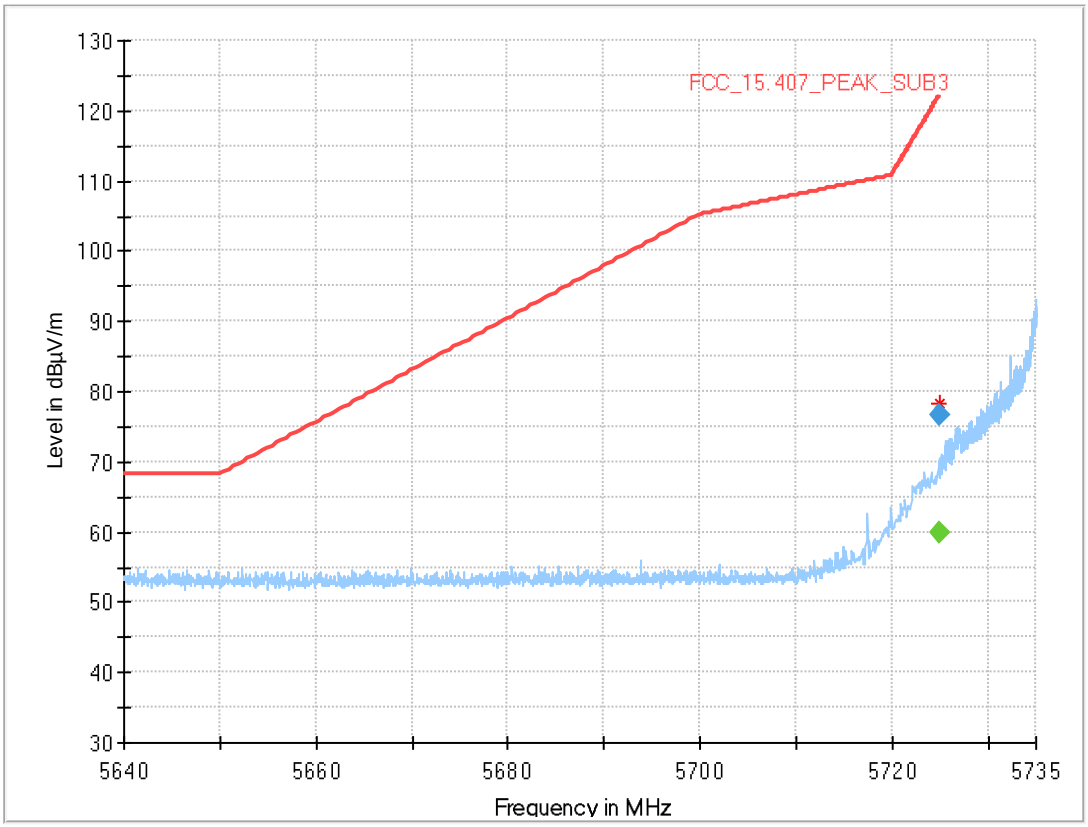
Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.038	---	53.3	---	---	1000.0	1000.000	150.0	V	-146.0	-2.0	15.7
5725.038	67.5	---	68.20	0.71	1000.0	1000.000	150.0	V	-146.0	-2.0	15.7
5725.388	---	51.9	---	---	1000.0	1000.000	150.0	V	-190.0	-1.0	15.7
5725.388	66.7	---	68.20	1.48	1000.0	1000.000	150.0	V	-190.0	-1.0	15.7

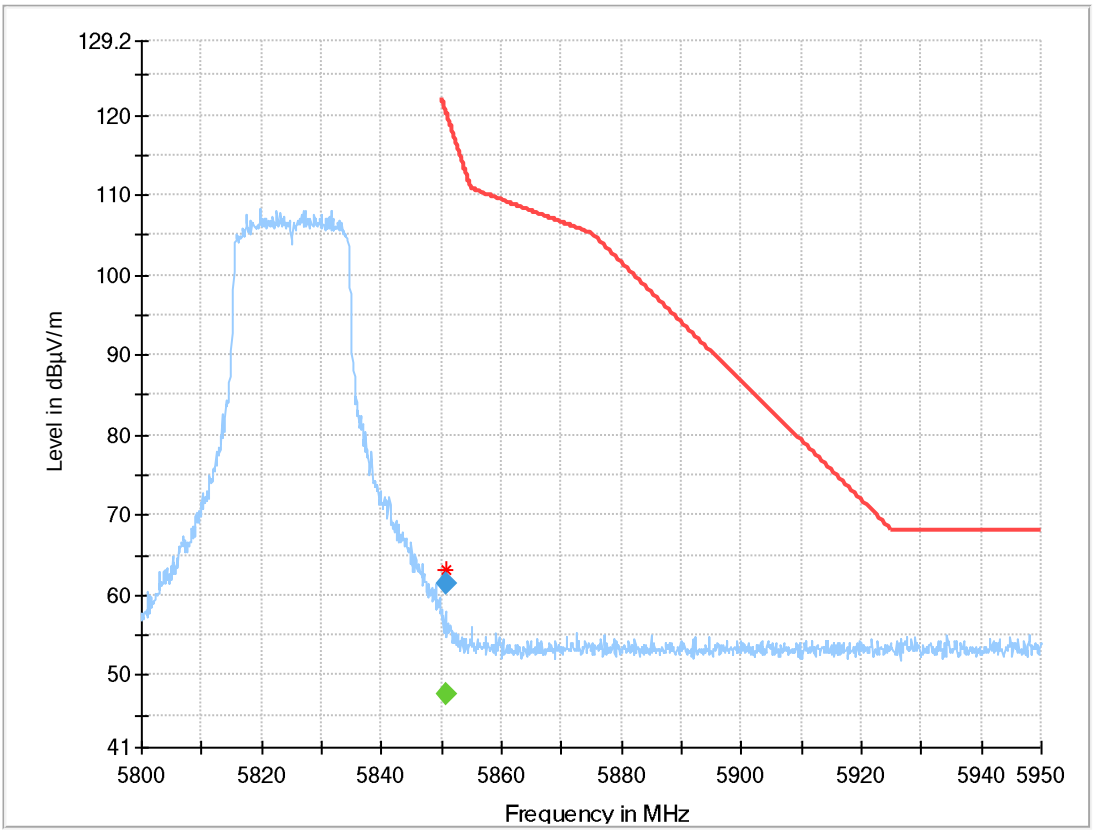
Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5724.900	---	59.9	---	---	1000.0	1000.000	150.0	V	-140.0	-15.0	15.7
5724.900	76.7	---	121.9	45.31	1000.0	1000.000	150.0	V	-140.0	-15.0	15.7

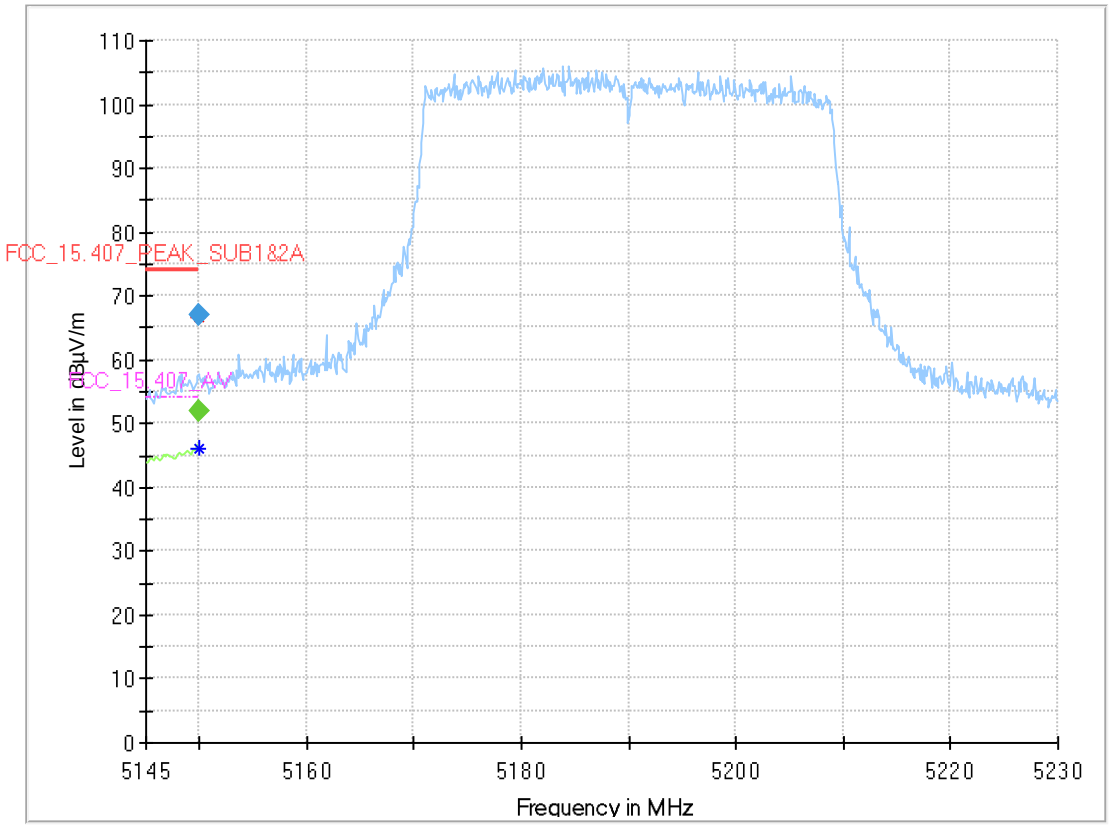
Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5850.700	---	47.7	---	---	1000.0	1000.000	150.0	V	-100.0	2.0	15.8
5850.700	61.4	---	120.6	59.16	1000.0	1000.000	150.0	V	-100.0	2.0	15.8

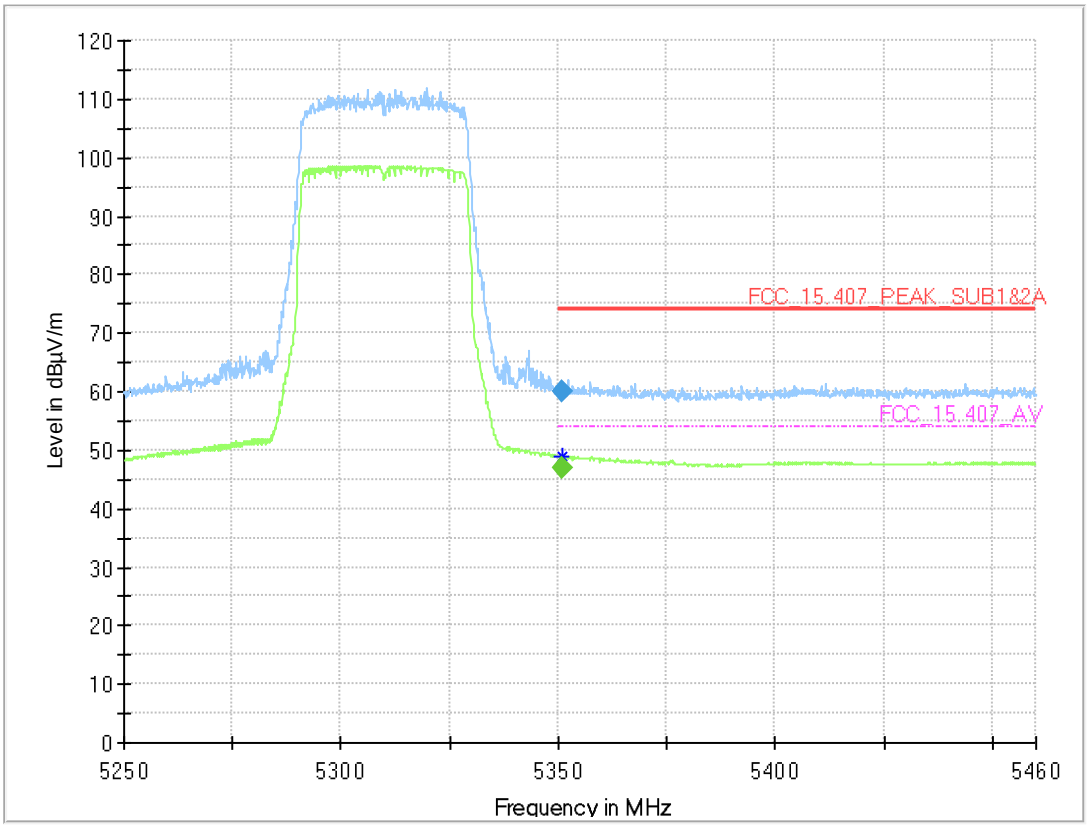
Radio Technology = WLAN ax 40 MHz, Operating Frequency = low, Subband = U-NII-1 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5150.000	---	51.8	54.00	2.18	1000.0	1000.000	150.0	V	-34.0	78.0	15.0
5150.000	67.1	---	74.00	6.93	1000.0	1000.000	150.0	V	-34.0	78.0	15.0

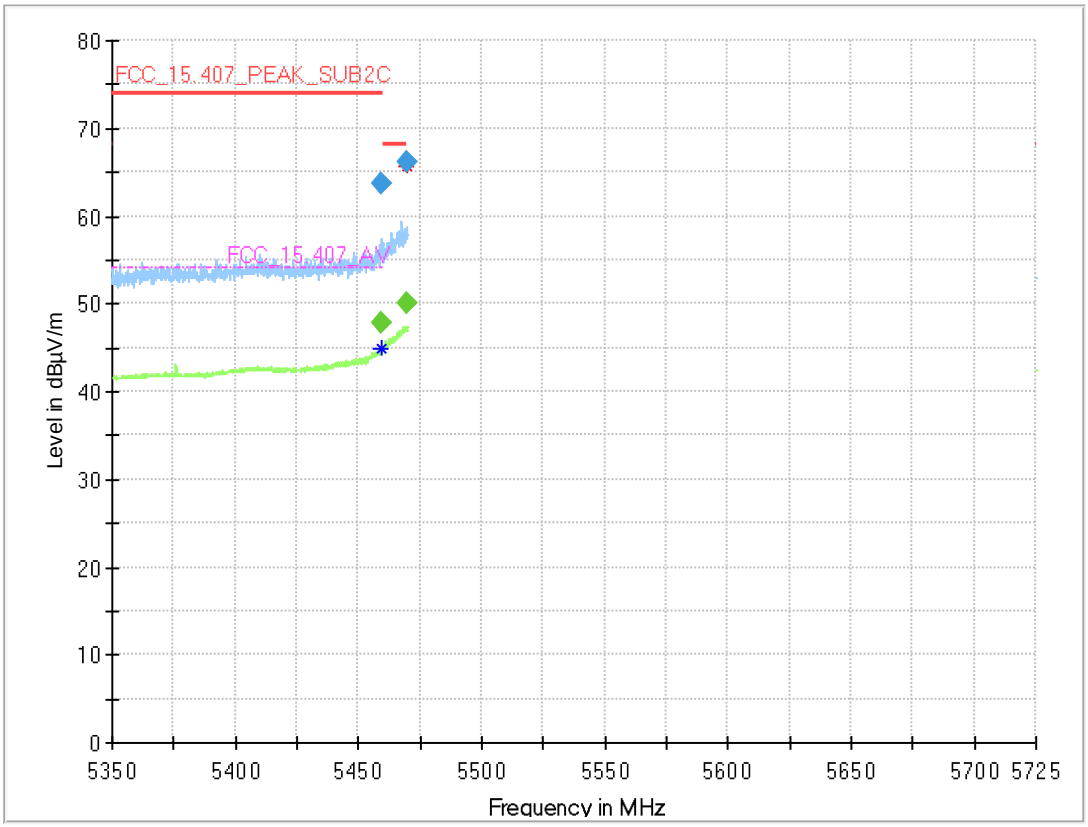
Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-2A (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5350.931	---	47.0	54.00	7.01	1000.0	1000.000	150.0	V	-54.0	90.0	15.2
5350.931	60.1	---	74.00	13.92	1000.0	1000.000	150.0	V	-54.0	90.0	15.2

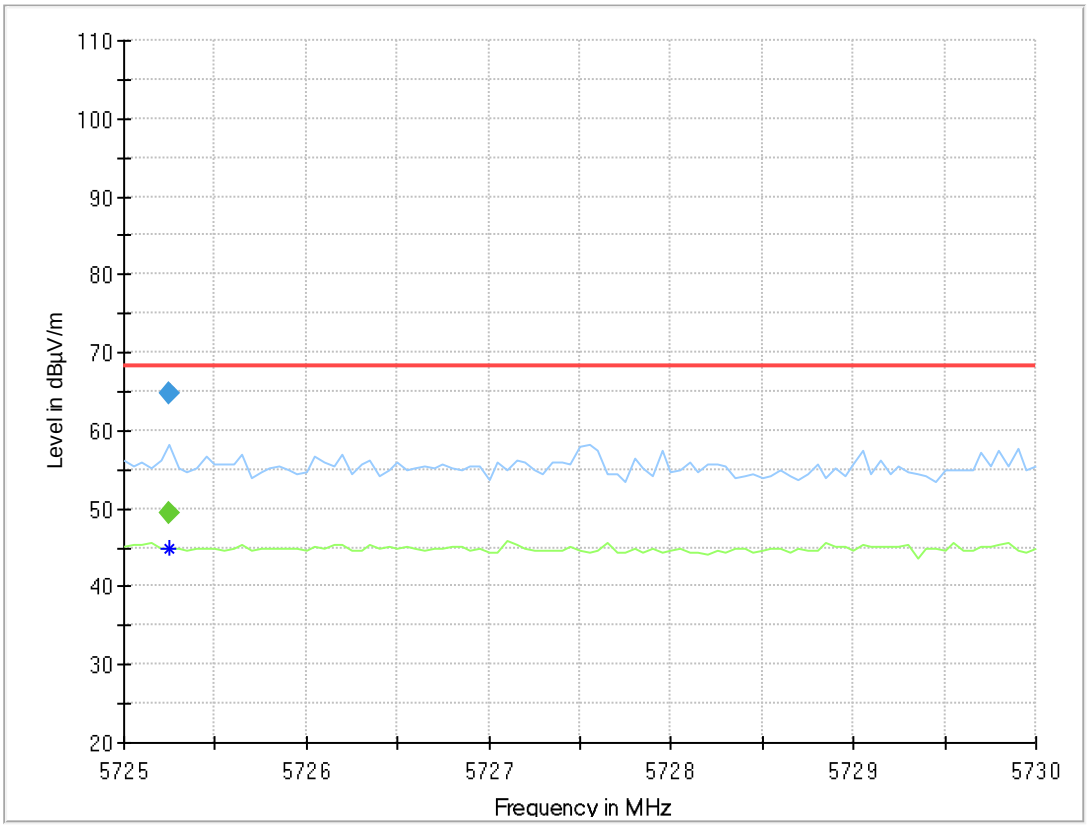
Radio Technology = WLAN ax 40 MHz, Operating Frequency = low, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5459.560	---	47.9	54.00	6.13	1000.0	1000.000	150.0	H	-134.0	88.0	15.9
5459.560	63.7	---	74.00	10.27	1000.0	1000.000	150.0	H	-134.0	88.0	15.9
5470.000	---	50.1	---	---	1000.0	1000.000	150.0	H	-134.0	91.0	15.7
5470.000	66.2	---	68.20	2.03	1000.0	1000.000	150.0	H	-134.0	91.0	15.7

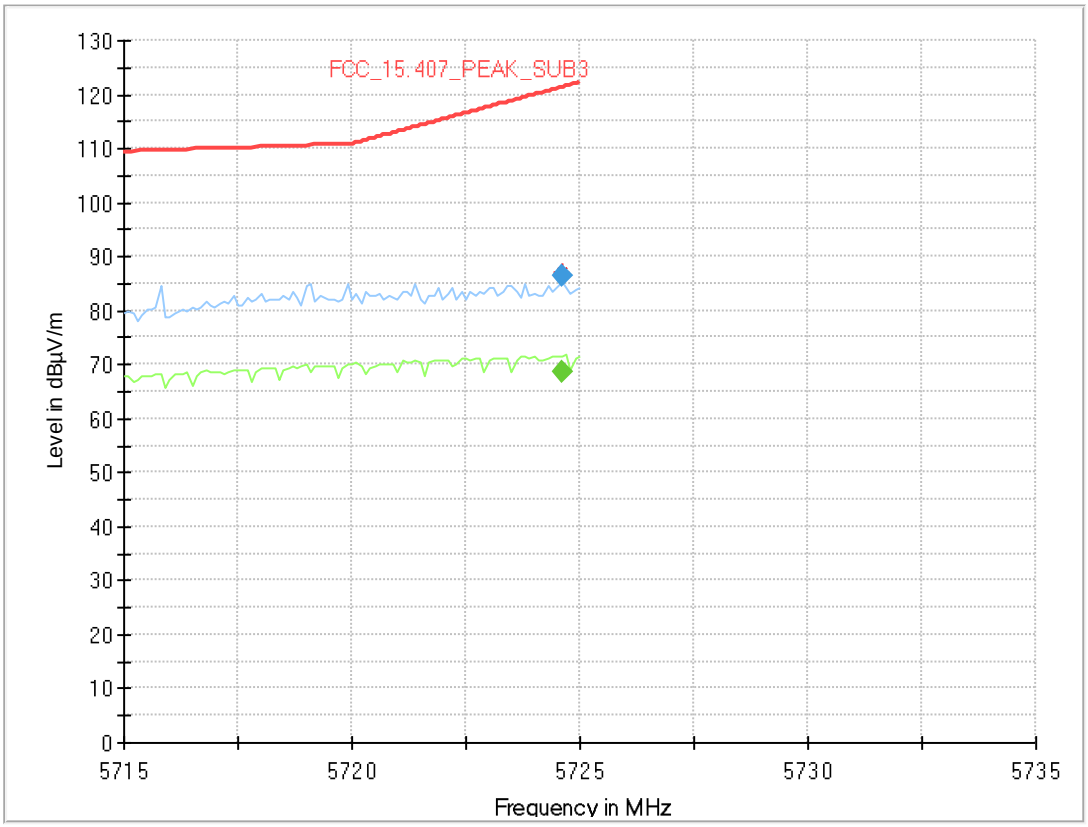
Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.250	---	49.4	---	---	1000.0	1000.000	150.0	H	-49.0	105.0	15.7
5725.250	64.9	---	68.20	3.34	1000.0	1000.000	150.0	H	-49.0	105.0	15.7

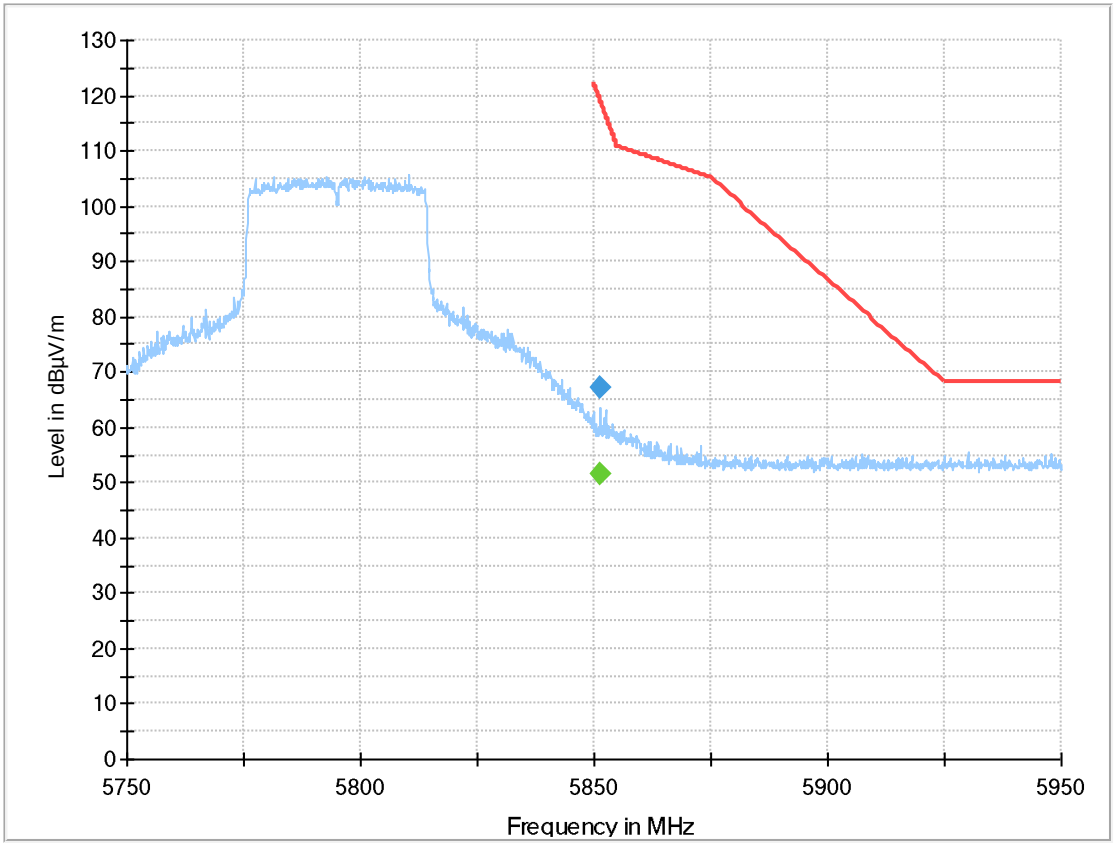
Radio Technology = WLAN ax 40 MHz, Operating Frequency = low, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5724.600	---	68.6	---	---	1000.0	1000.000	150.0	V	-133.0	2.0	15.7
5724.600	86.5	---	121.2	34.76	1000.0	1000.000	150.0	V	-133.0	2.0	15.7

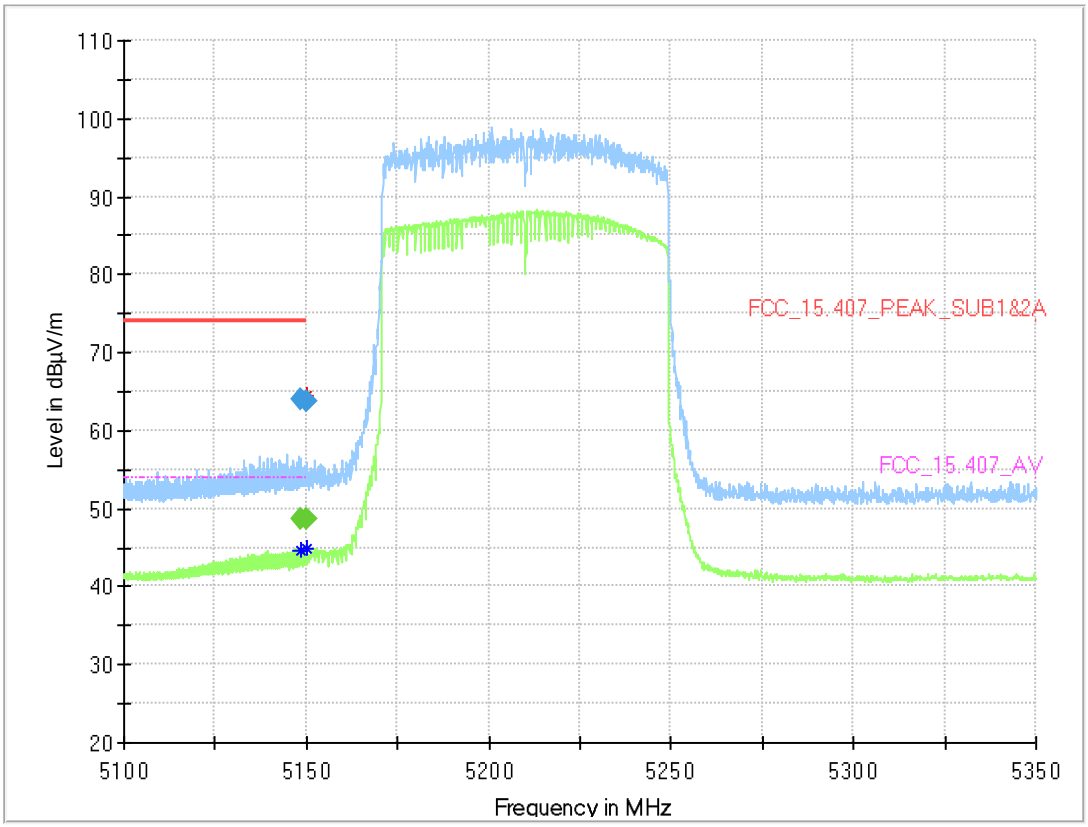
Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5851.200	---	51.7	---	---	1000.0	1000.000	150.0	V	-91.0	15.0	15.8
5851.200	67.2	---	119.4	52.24	1000.0	1000.000	150.0	V	-91.0	15.0	15.8

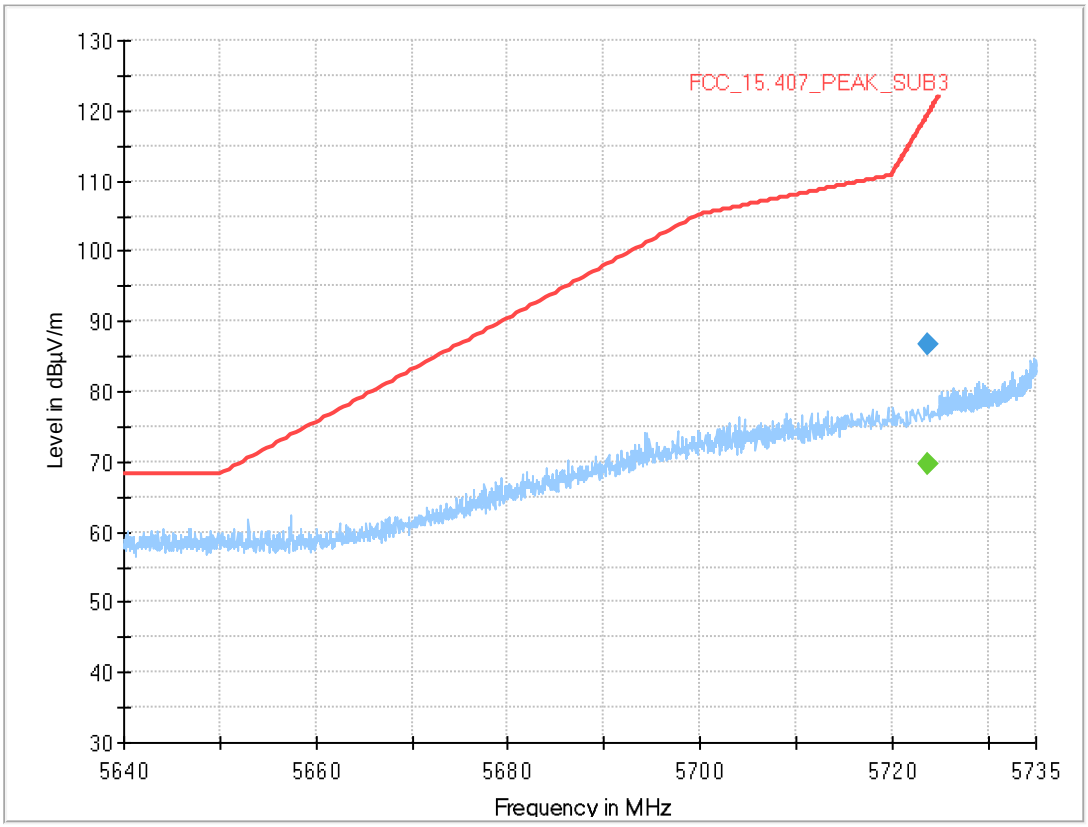
Radio Technology = WLAN ax 80 MHz, Operating Frequency = mid, Subband = U-NII-1 (S06_AJ04)



Final_Result

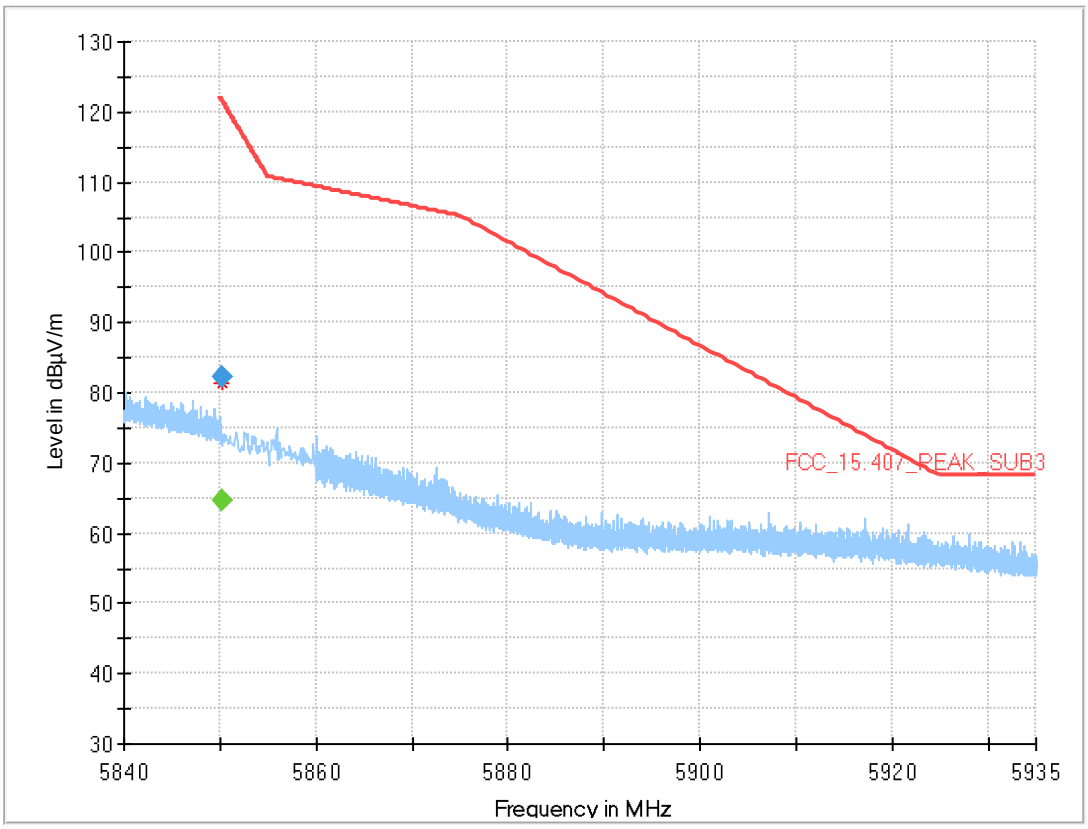
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5148.625	---	48.7	54.00	5.29	1000.0	1000.000	150.0	H	-55.0	92.0	15.0
5148.625	63.9	---	74.00	10.13	1000.0	1000.000	150.0	H	-55.0	92.0	15.0
5149.938	---	48.7	54.00	5.30	1000.0	1000.000	150.0	H	-54.0	95.0	15.0
5149.938	63.7	---	74.00	10.28	1000.0	1000.000	150.0	H	-54.0	95.0	15.0

Radio Technology = WLAN ax 80 MHz, Operating Frequency = mid, Subband = U-NII-3 (S06_AJ04)



Final_Result

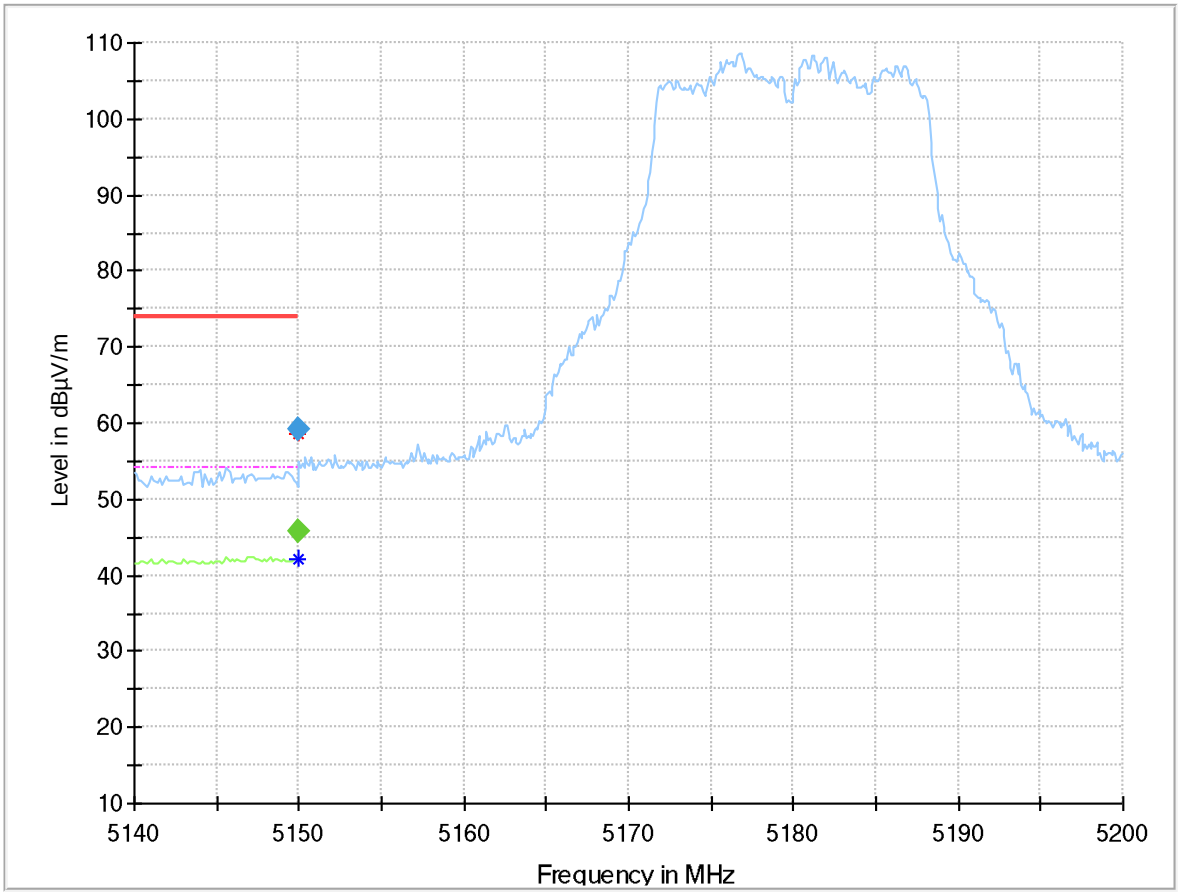
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5723.700	---	69.6	---	---	1000.0	1000.000	150.0	V	-94.0	8.0	15.7
5723.700	86.6	---	119.2	32.63	1000.0	1000.000	150.0	V	-94.0	8.0	15.7



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5850.300	---	64.6	---	---	1000.0	1000.000	150.0	V	-134.0	-8.0	15.8
5850.300	82.2	---	121.5	39.36	1000.0	1000.000	150.0	V	-134.0	-8.0	15.8

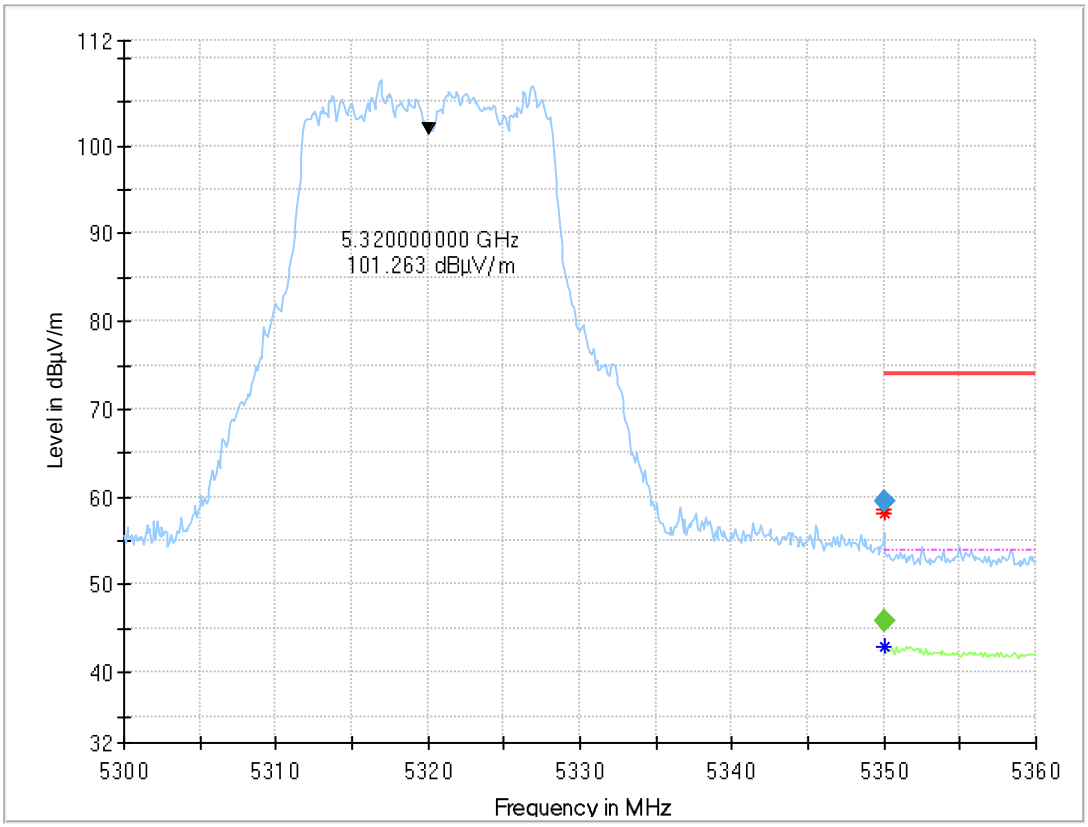
Radio Technology = WLAN a Diversity, Operating Frequency = low, Subband = U-NII-1 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5150.000	---	45.7	54.00	8.34	1000.0	1000.000	150.0	V	136.0	-9.0	14.5
5150.000	59.1	---	74.00	14.91	1000.0	1000.000	150.0	V	136.0	-9.0	14.5

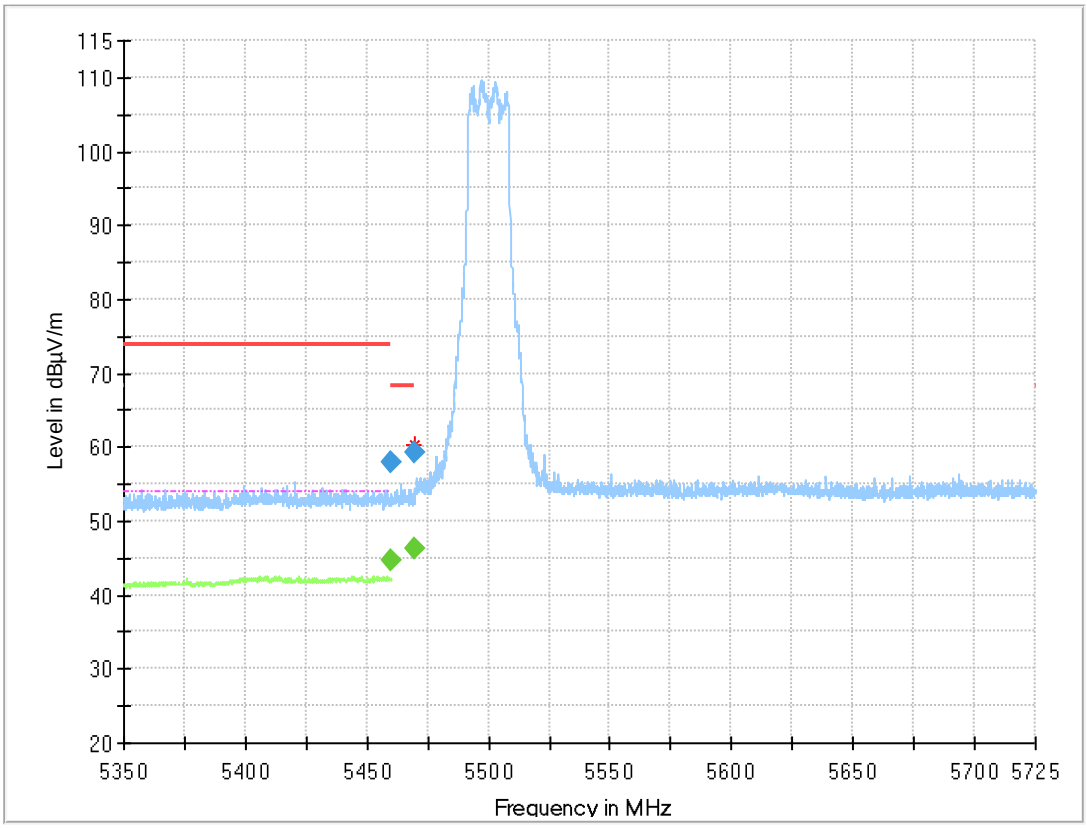
Radio Technology = WLAN a Diversity, Operating Frequency = high, Subband = U-NII-2A (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5350.000	---	45.8	54.00	8.23	1000.0	1000.000	150.0	H	35.0	90.0	14.9
5350.000	59.4	---	74.00	14.56	1000.0	1000.000	150.0	H	35.0	90.0	14.9
5350.000	---	45.8	54.00	8.17	1000.0	1000.000	150.0	V	-133.0	93.0	14.9
5350.000	59.6	---	74.00	14.43	1000.0	1000.000	150.0	V	-133.0	93.0	14.9

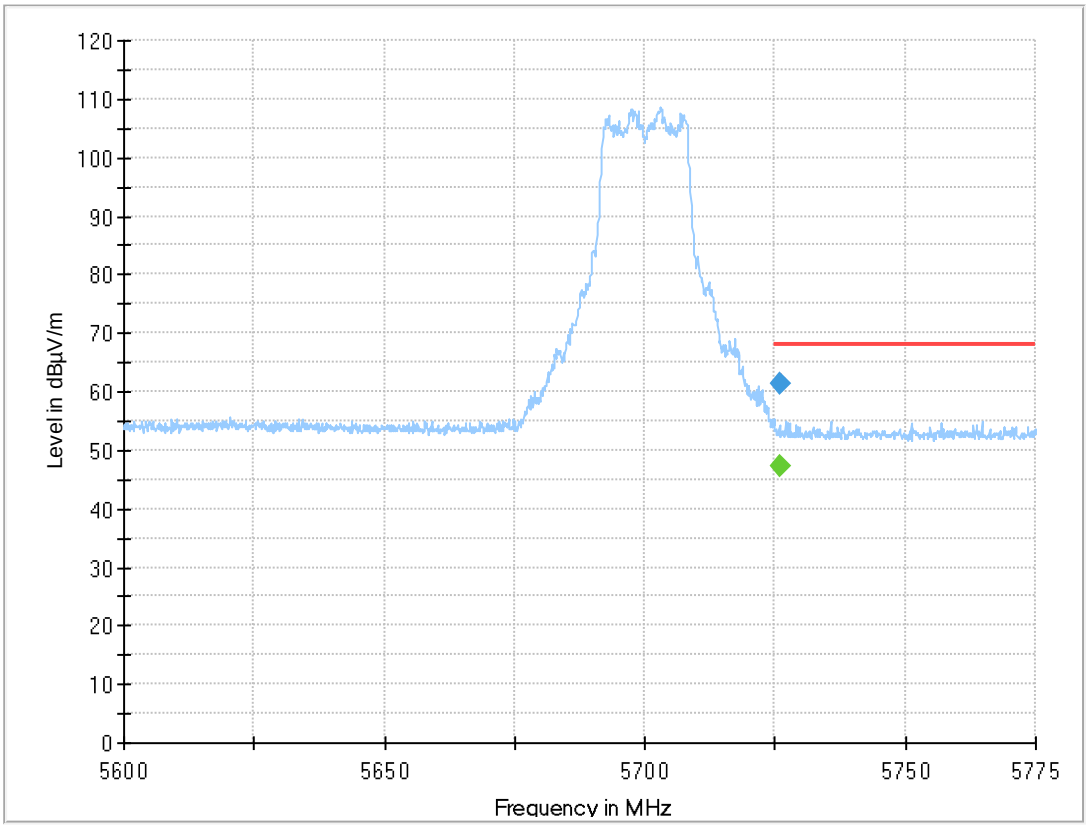
Radio Technology = WLAN a Diversity, Operating Frequency = low, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5460.000	---	44.8	54.00	9.25	1000.0	1000.000	150.0	H	146.0	10.0	15.4
5460.000	57.8	---	74.00	16.17	1000.0	1000.000	150.0	H	146.0	10.0	15.4
5470.000	---	46.2	---	---	1000.0	1000.000	150.0	V	79.0	15.0	15.1
5470.000	59.2	---	---	---	1000.0	1000.000	150.0	V	79.0	15.0	15.1

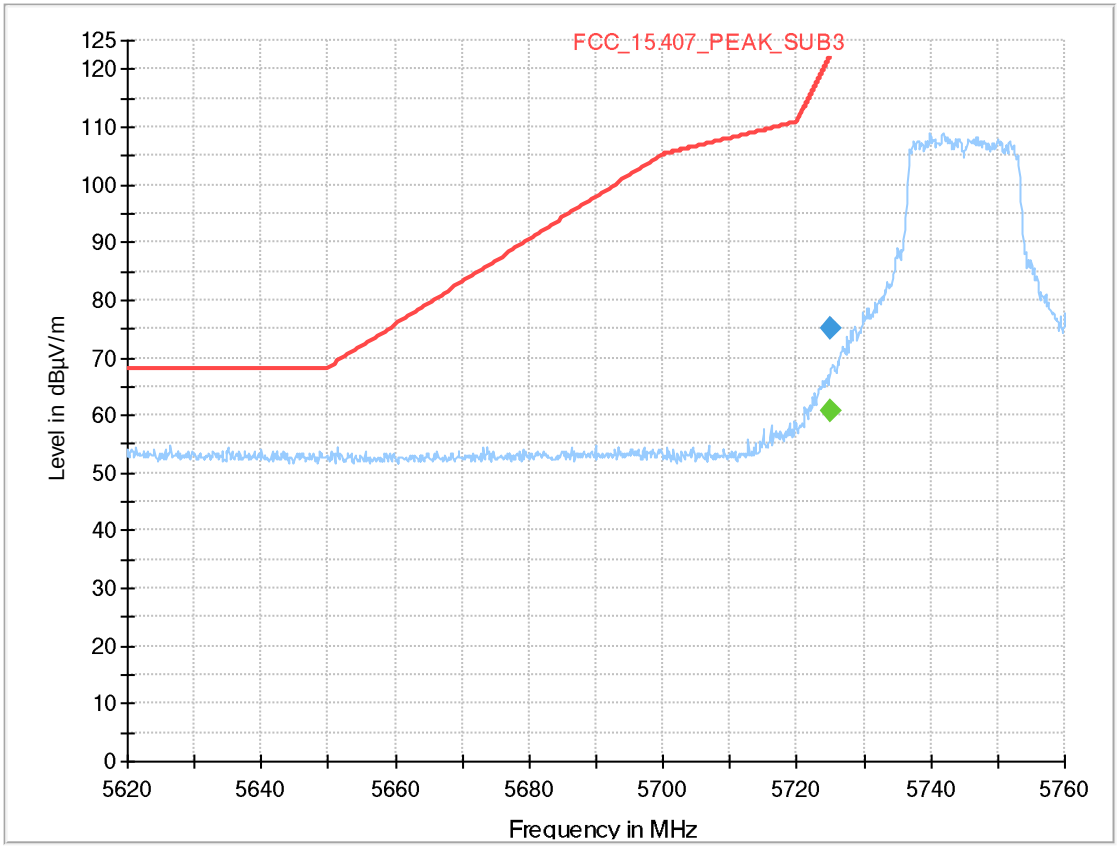
Radio Technology = WLAN a Diversity, Operating Frequency = high, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.893	---	47.4	---	---	1000.0	1000.000	150.0	H	34.0	96.0	15.4
5725.893	61.4	---	68.20	6.75	1000.0	1000.000	150.0	H	34.0	96.0	15.4

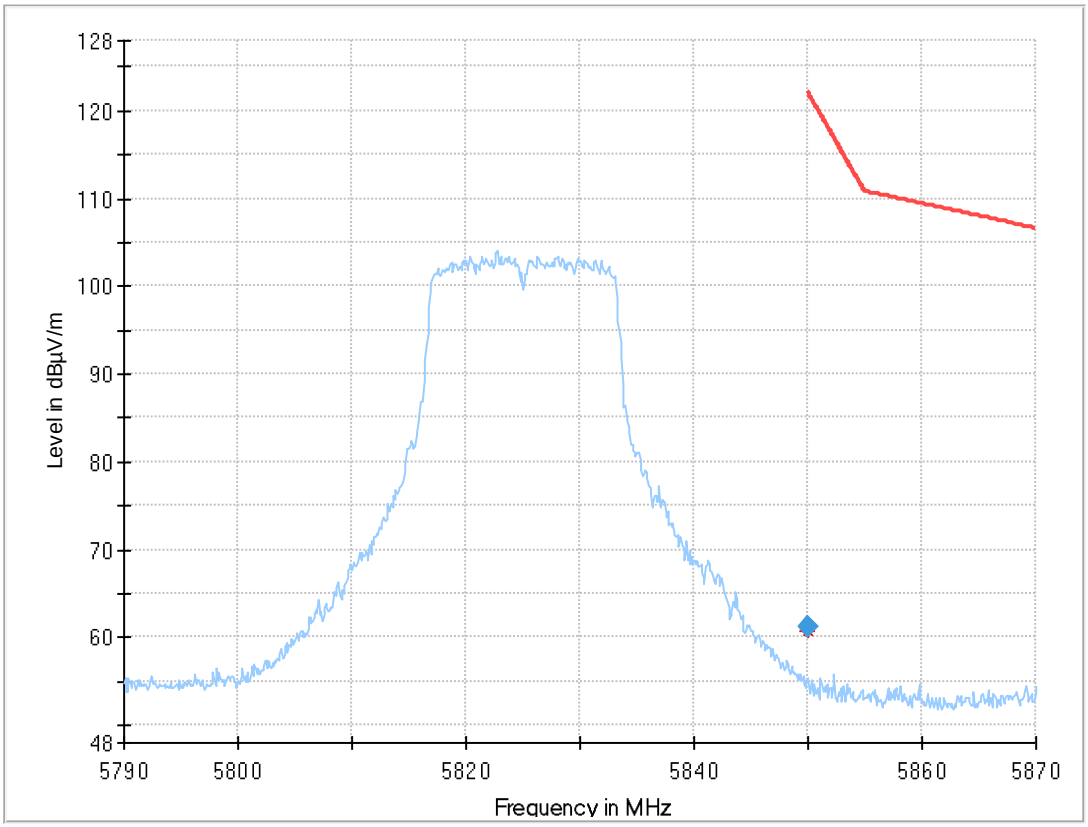
Radio Technology = WLAN a Diversity, Operating Frequency = low, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.000	---	60.7	---	---	1000.0	1000.000	150.0	V	-45.0	14.0	15.4
5725.000	75.1	---	122.2	47.10	1000.0	1000.000	150.0	V	-45.0	14.0	15.4

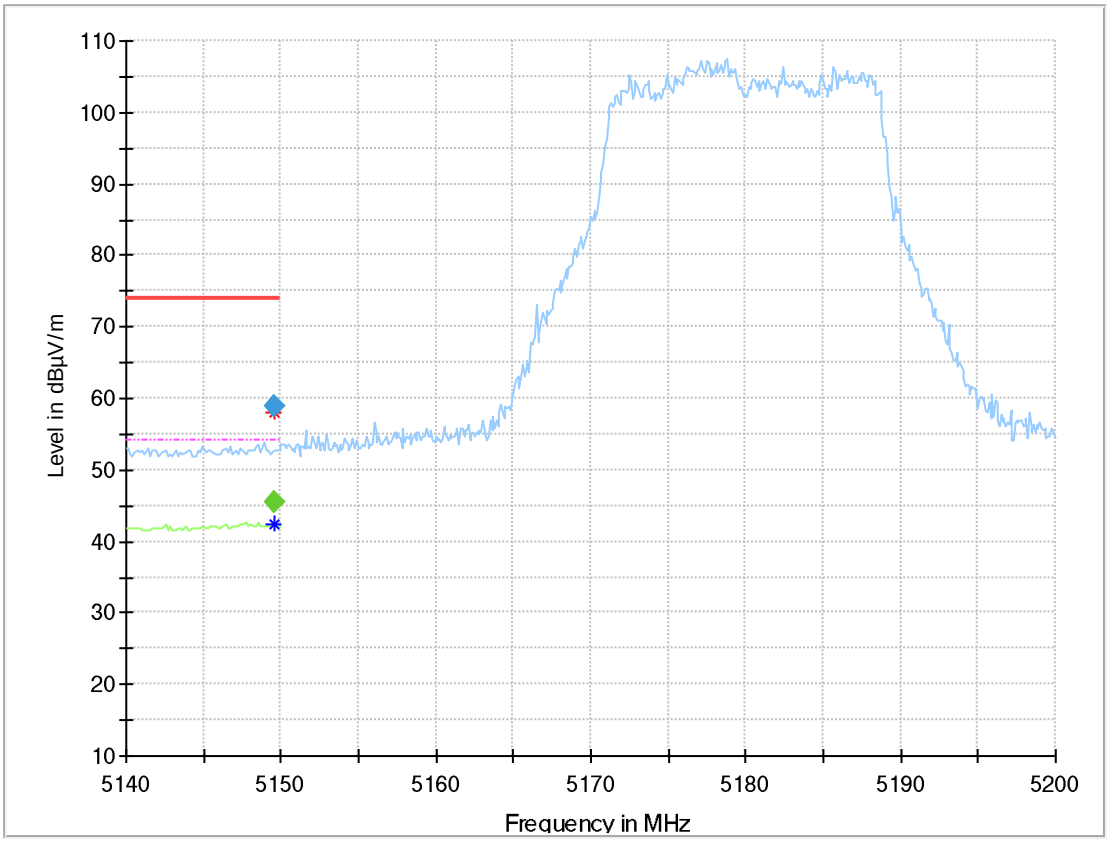
Radio Technology = WLAN a Diversity, Operating Frequency = high, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5850.000	61.3	---	122.2	60.93	1000.0	1000.000	150.0	H	-39.0	86.0	15.5

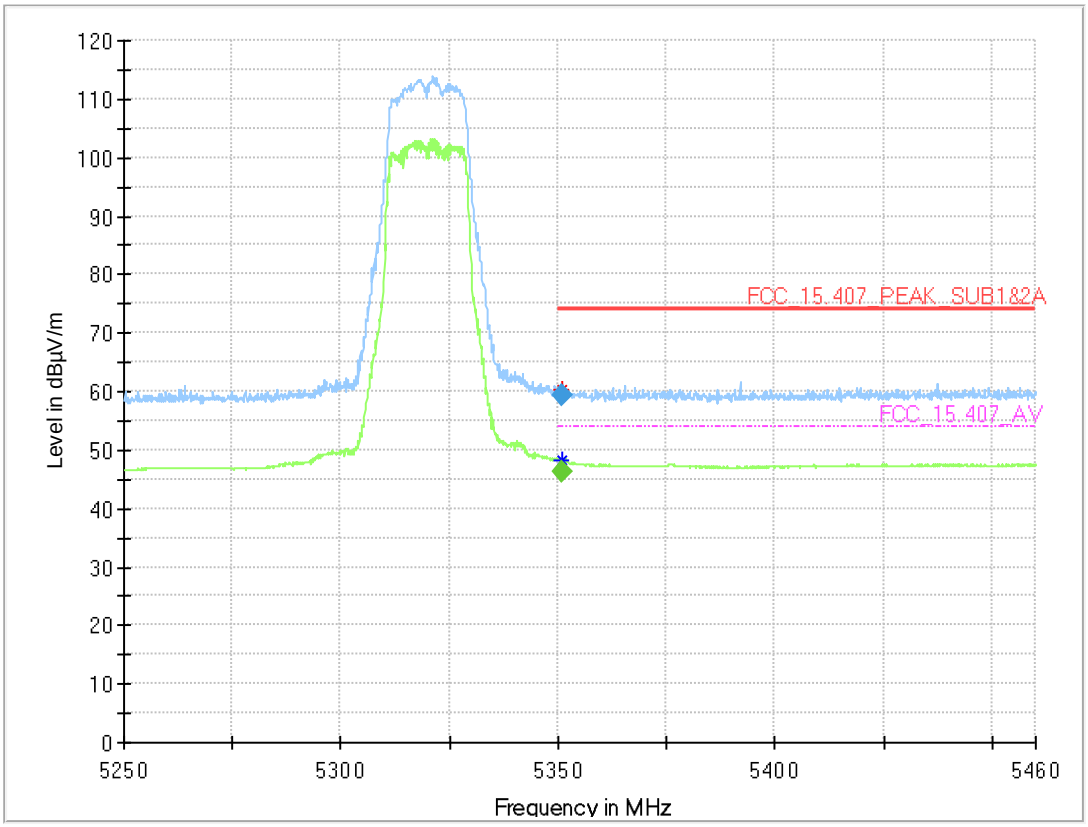
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-1 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5149.513	---	45.6	54.00	8.45	1000.0	1000.000	150.0	H	-8.0	92.0	14.5
5149.513	58.8	---	74.00	15.17	1000.0	1000.000	150.0	H	-8.0	92.0	14.5

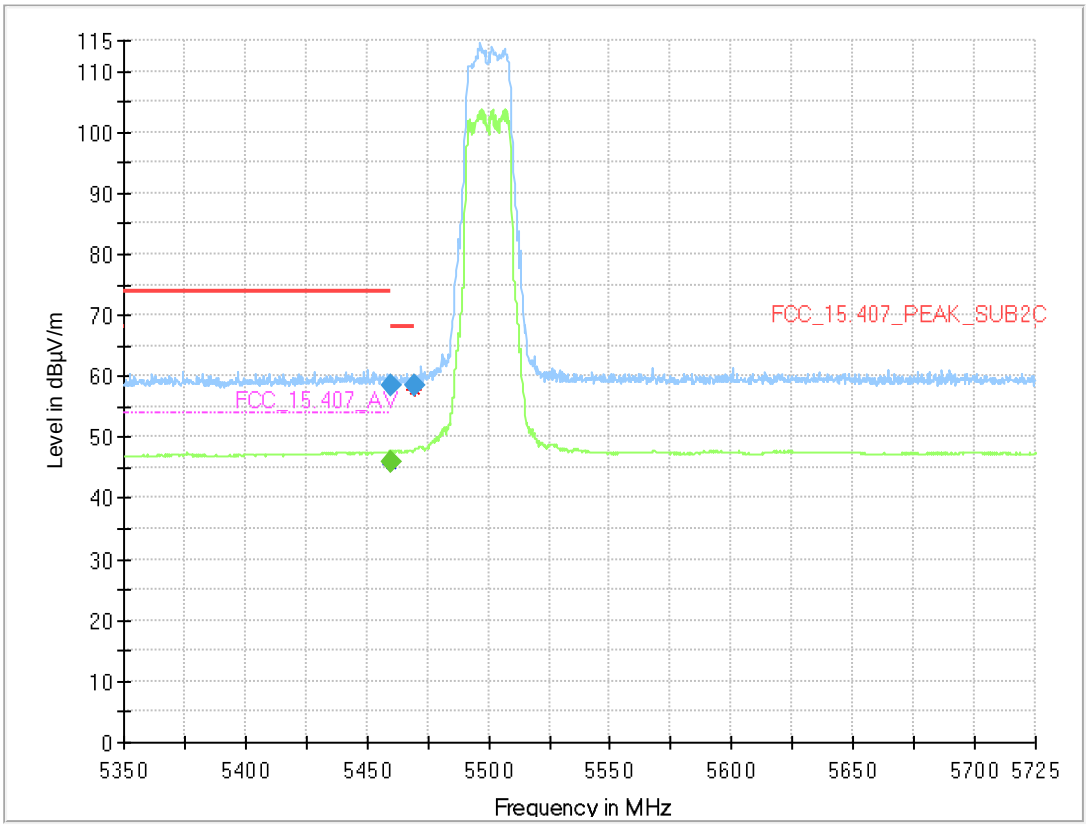
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5351.063	---	46.1	54.00	7.89	1000.0	1000.000	150.0	H	48.0	105.0	14.9
5351.063	59.5	---	74.00	14.55	1000.0	1000.000	150.0	H	48.0	105.0	14.9

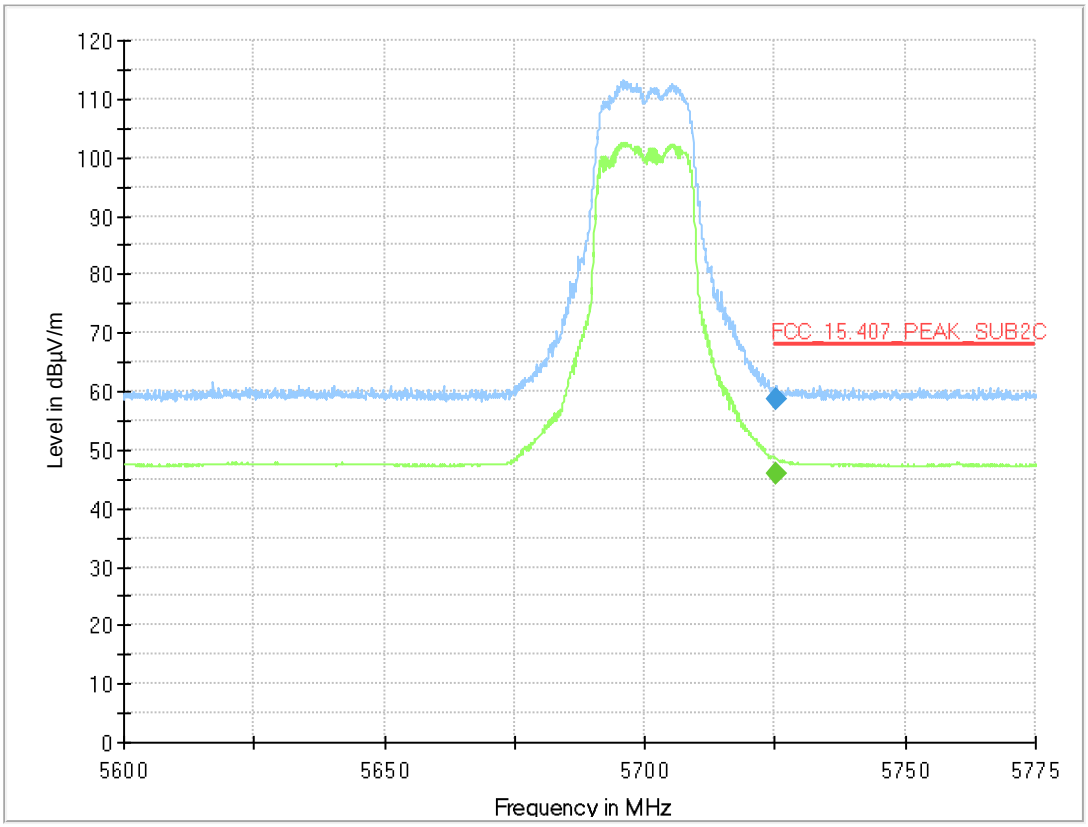
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5459.922	---	45.8	54.00	8.22	1000.0	1000.000	150.0	H	34.0	83.0	15.4
5459.922	58.5	---	74.00	15.52	1000.0	1000.000	150.0	V	51.0	105.0	15.4
5470.000	58.6	---	68.20	9.64	1000.0	1000.000	150.0	V	98.0	-15.0	15.1

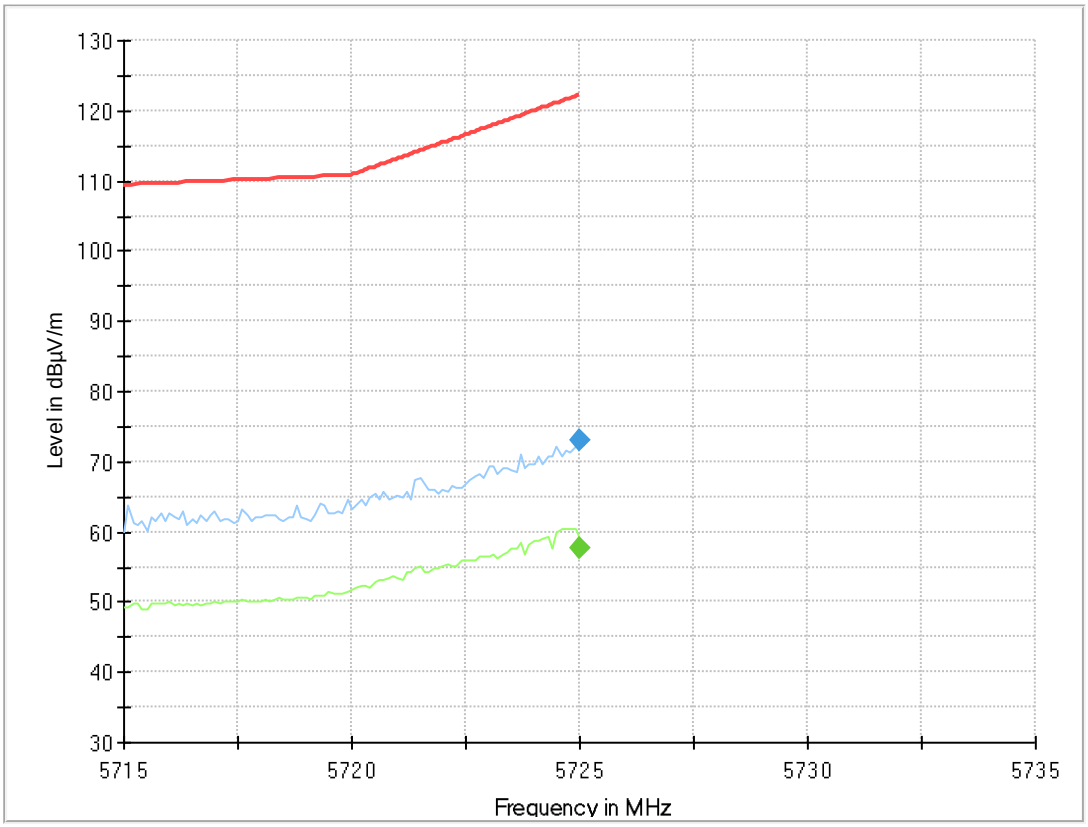
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.125	---	45.8	---	---	1000.0	1000.000	150.0	V	40.0	80.0	15.4
5725.125	58.7	---	68.20	9.51	1000.0	1000.000	150.0	V	40.0	80.0	15.4

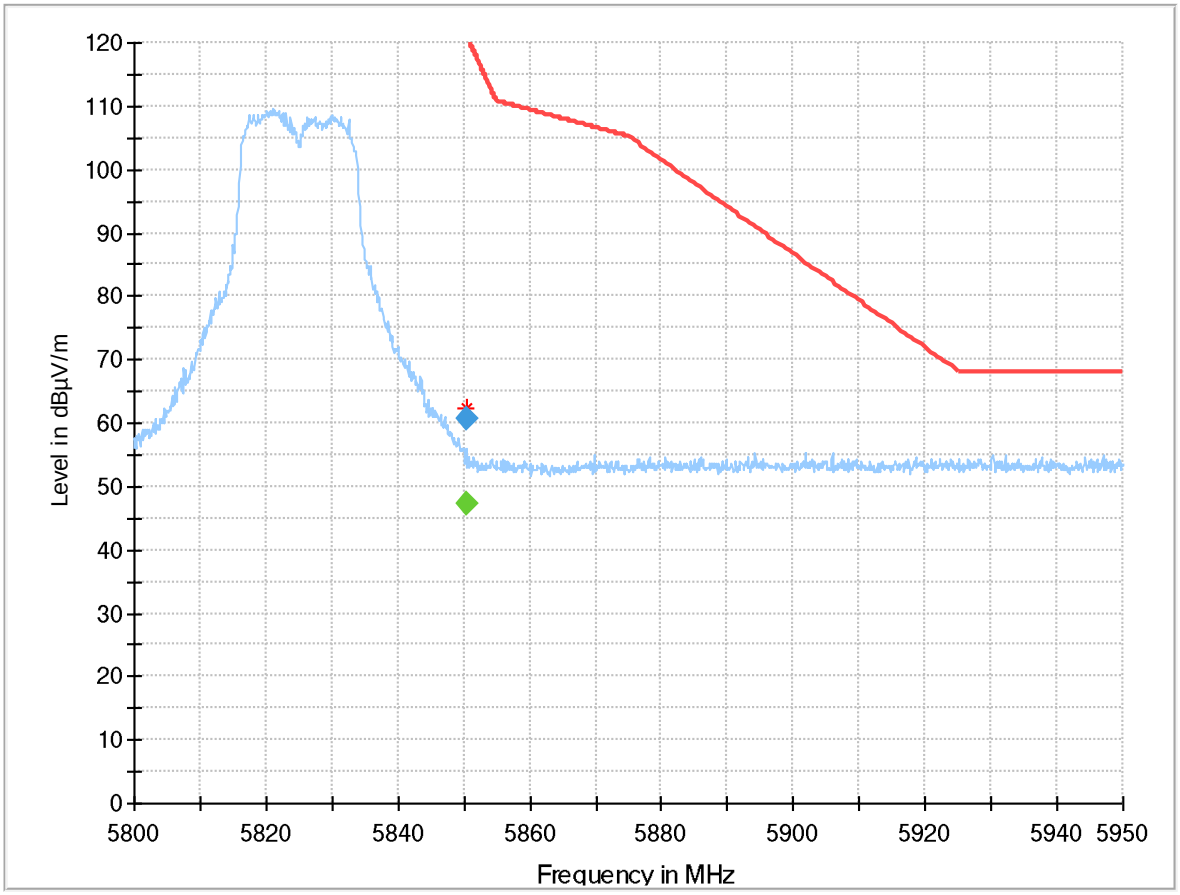
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.000	---	57.6	---	---	1000.0	1000.000	150.0	V	-4.0	4.0	15.4
5725.000	73.1	---	122.2	49.15	1000.0	1000.000	150.0	V	-4.0	4.0	15.4

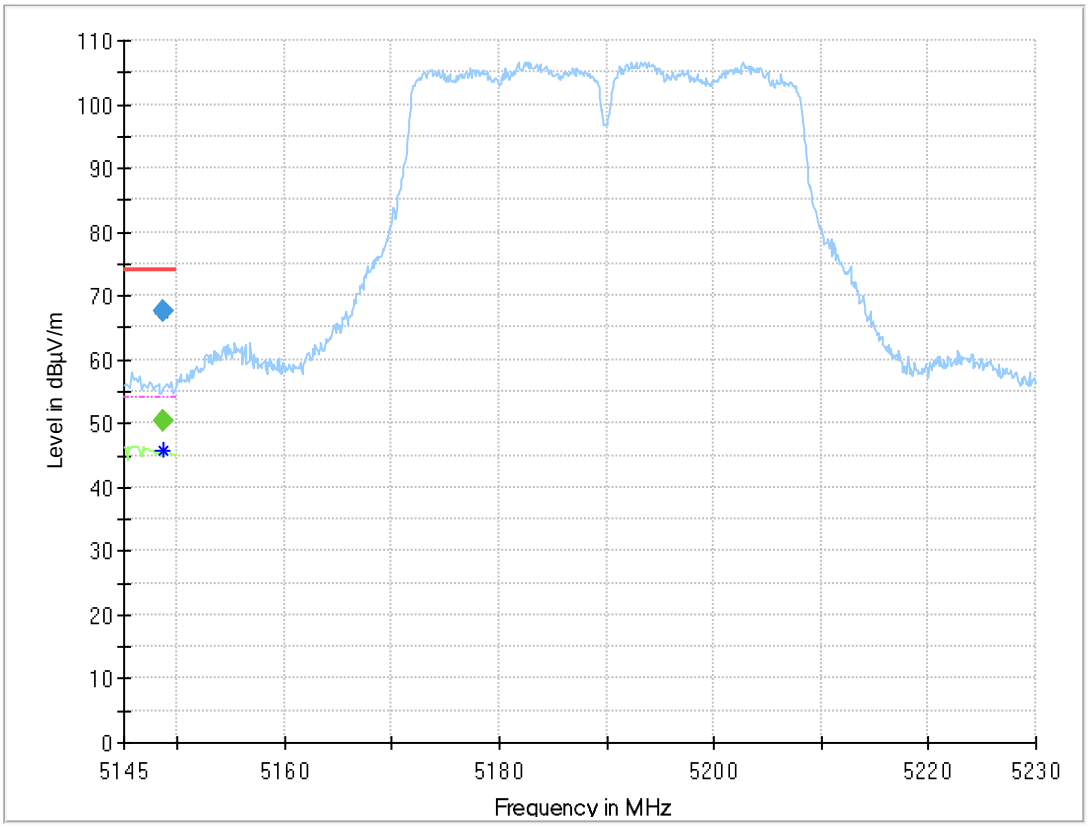
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5850.300	---	47.2	---	---	1000.0	1000.000	150.0	V	-11.0	15.0	15.5
5850.300	60.8	---	121.5	60.75	1000.0	1000.000	150.0	V	-11.0	15.0	15.5

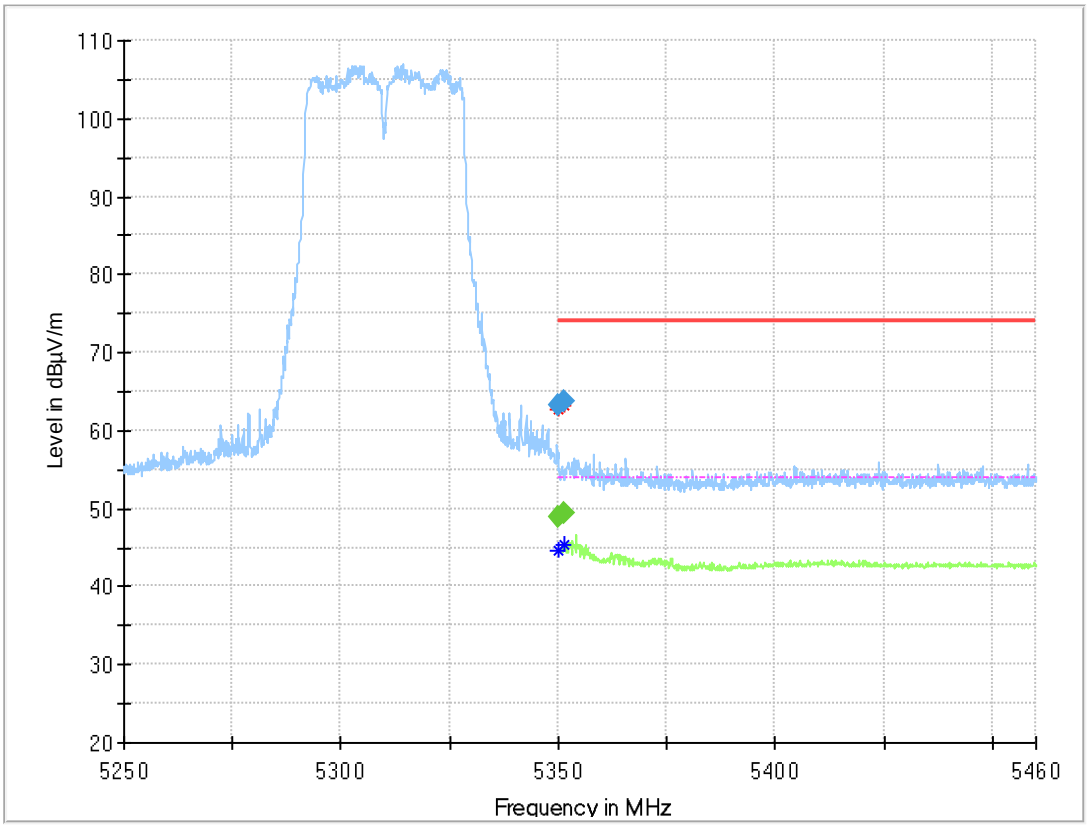
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = low, Subband = U-NII-1 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5148.700	---	50.3	54.00	3.74	1000.0	1000.000	150.0	H	-55.0	105.0	15.0
5148.700	67.6	---	74.00	6.37	1000.0	1000.000	150.0	H	-55.0	105.0	15.0

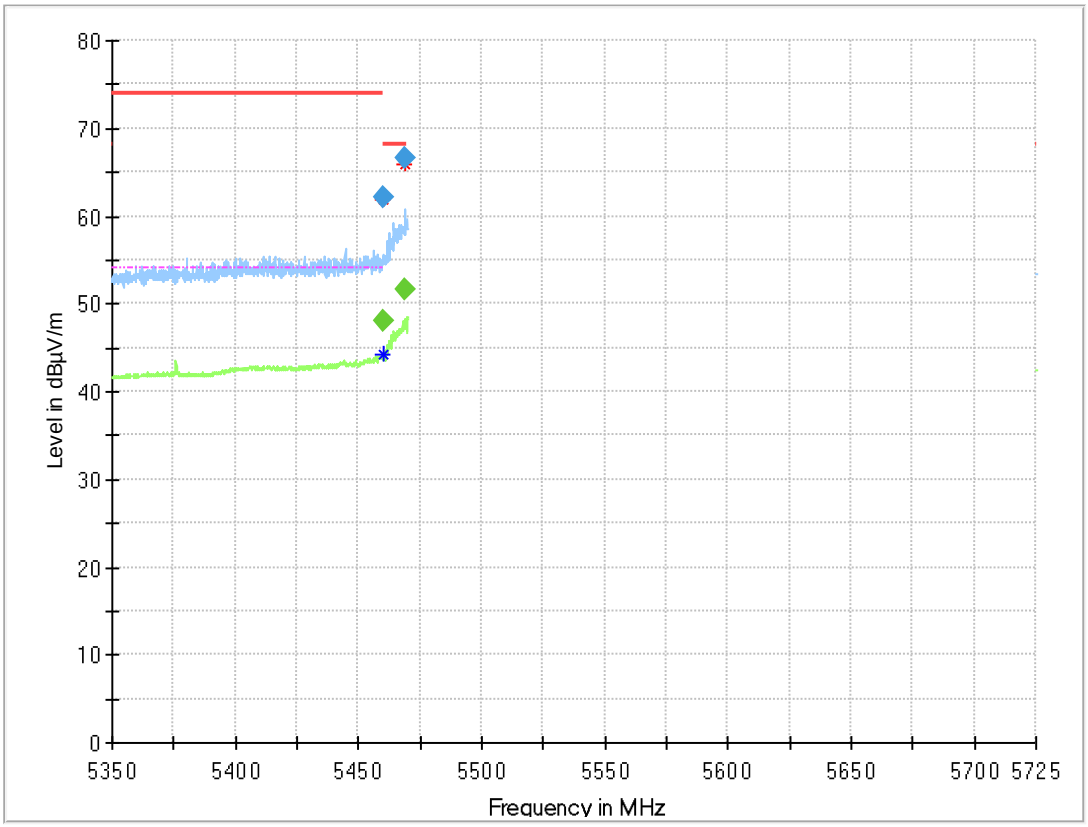
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5350.000	---	49.0	54.00	5.03	1000.0	1000.000	150.0	H	38.0	105.0	15.2
5350.000	63.2	---	74.00	10.78	1000.0	1000.000	150.0	H	38.0	105.0	15.2
5351.540	---	49.4	54.00	4.63	1000.0	1000.000	150.0	H	37.0	105.0	15.2
5351.540	63.8	---	74.00	10.24	1000.0	1000.000	150.0	H	37.0	105.0	15.2

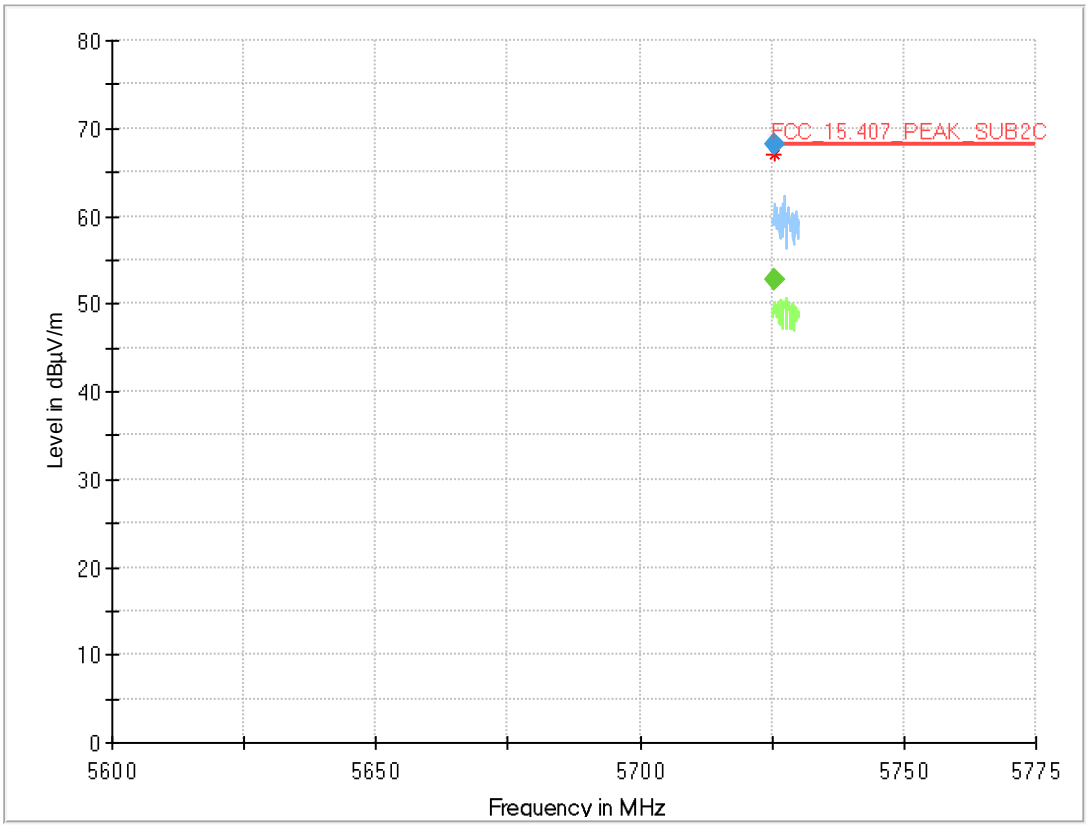
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5459.920	62.1	---	74.00	11.93	1000.0	1000.000	150.0	V	127.0	-12.0	15.9
5459.920	---	48.0	54.00	5.98	1000.0	1000.000	150.0	V	127.0	-12.0	15.9
5468.800	66.6	---	68.20	1.64	1000.0	1000.000	150.0	V	138.0	-3.0	15.7
5468.800	---	51.7	---	---	1000.0	1000.000	150.0	V	138.0	-3.0	15.7

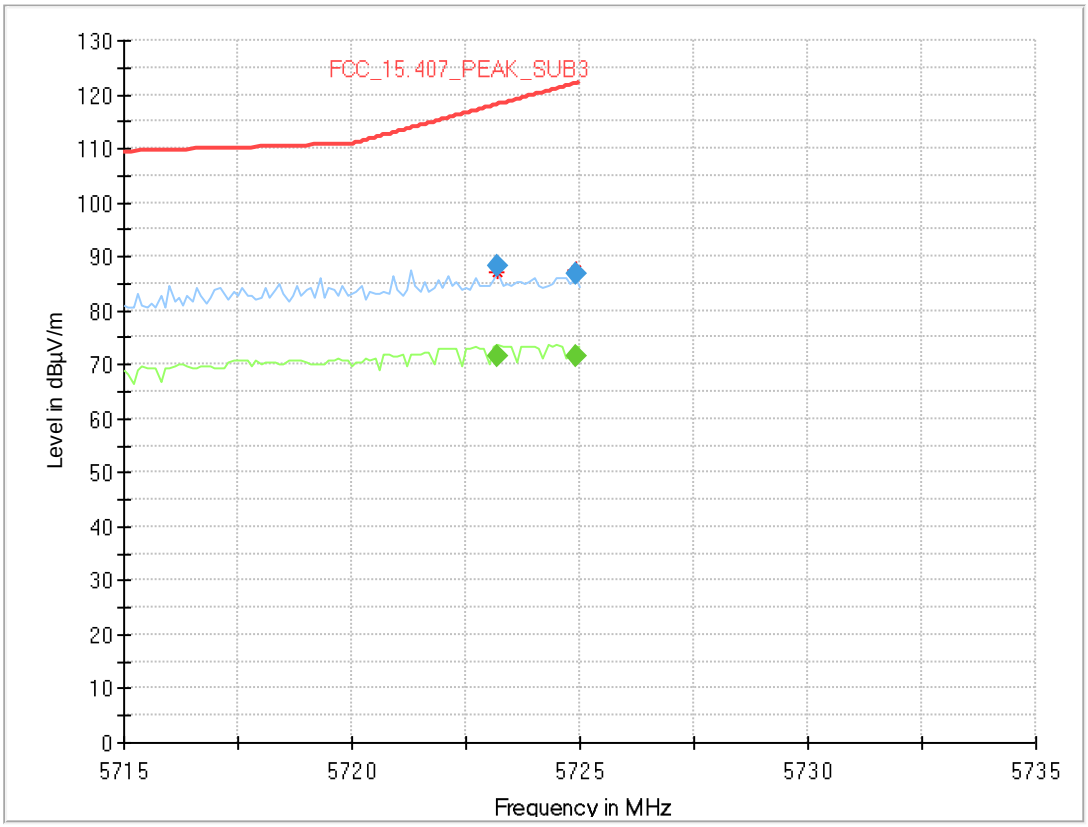
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.450	---	52.8	---	---	1000.0	1000.000	150.0	H	-51.0	84.0	15.7
5725.450	68.0	---	68.20	0.15	1000.0	1000.000	150.0	H	-51.0	84.0	15.7

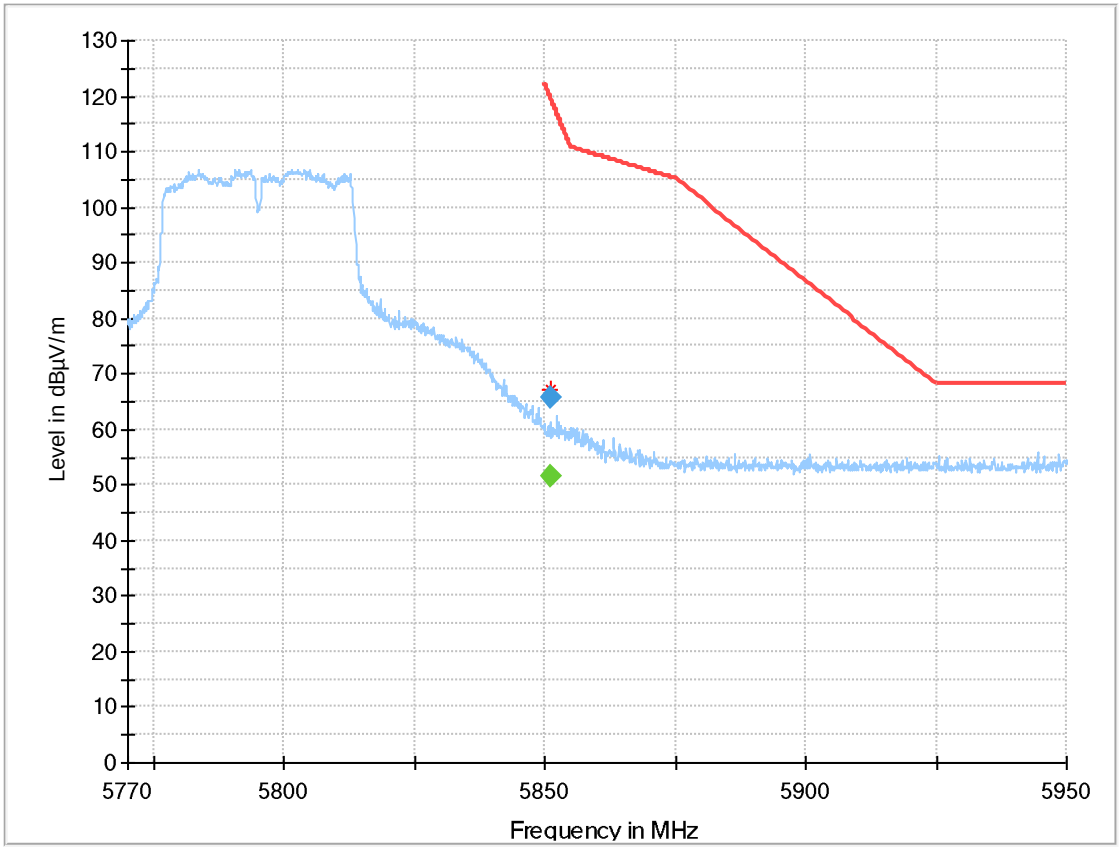
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = low, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5723.200	---	71.5	---	---	1000.0	1000.000	150.0	V	-132.0	-4.0	15.7
5723.200	88.1	---	118.1	29.99	1000.0	1000.000	150.0	V	-132.0	-4.0	15.7
5724.900	---	71.6	---	---	1000.0	1000.000	150.0	V	-128.0	-10.0	15.7
5724.900	86.9	---	121.9	35.03	1000.0	1000.000	150.0	V	-128.0	-10.0	15.7

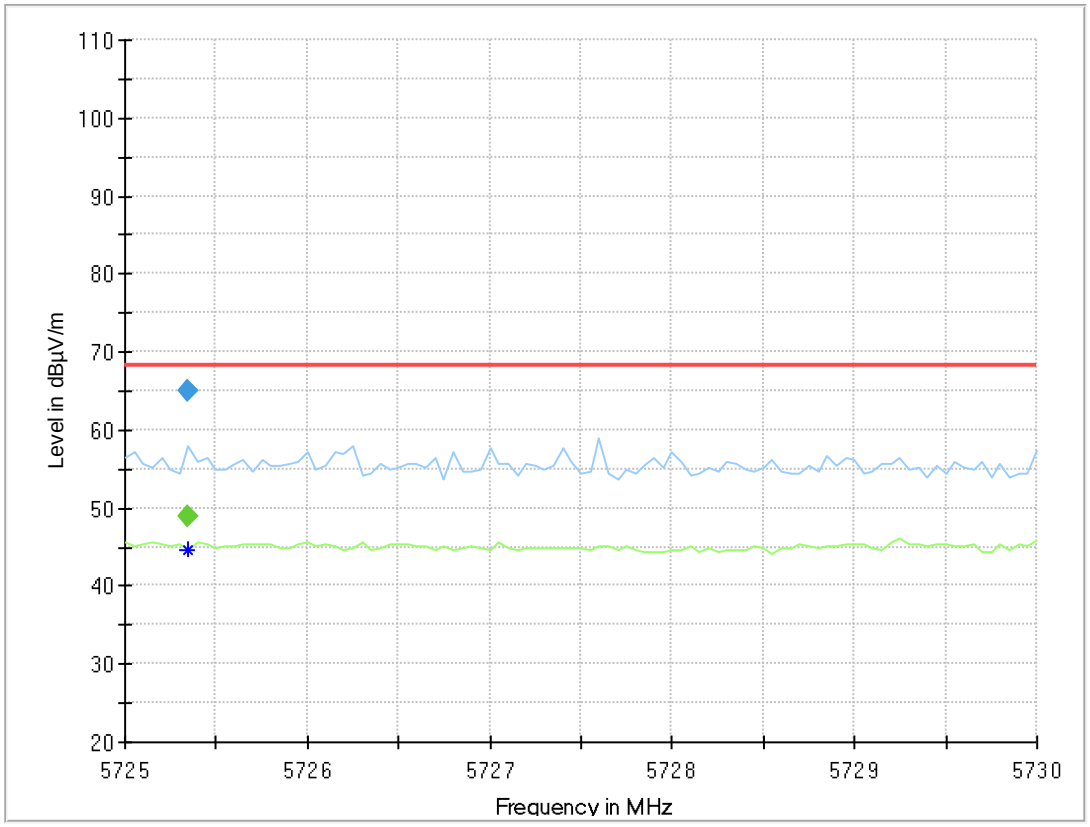
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5850.900	---	51.5	---	---	1000.0	1000.000	150.0	V	-177.0	15.0	15.8
5850.900	65.7	---	120.1	54.41	1000.0	1000.000	150.0	V	-177.0	15.0	15.8

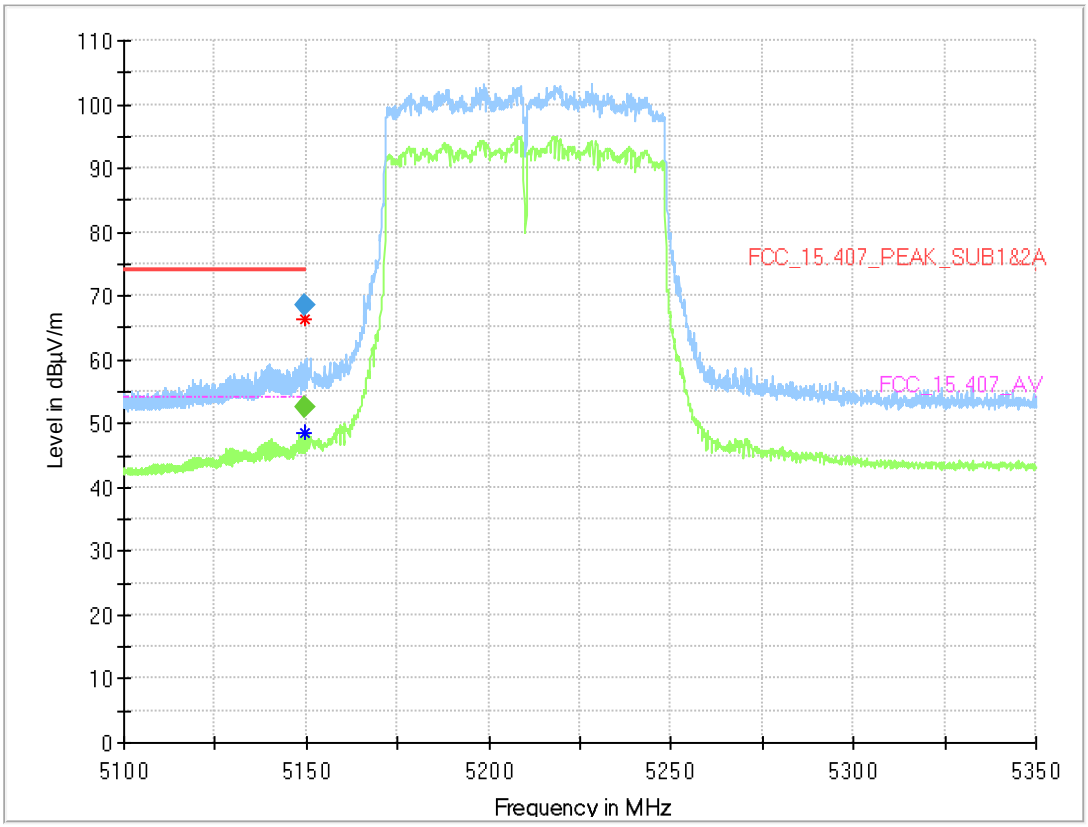
Radio Technology = WLAN ac 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C
(S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5725.350	---	48.9	---	---	1000.0	1000.000	150.0	H	-55.0	92.0	15.7
5725.350	64.9	---	68.20	3.26	1000.0	1000.000	150.0	H	-55.0	92.0	15.7

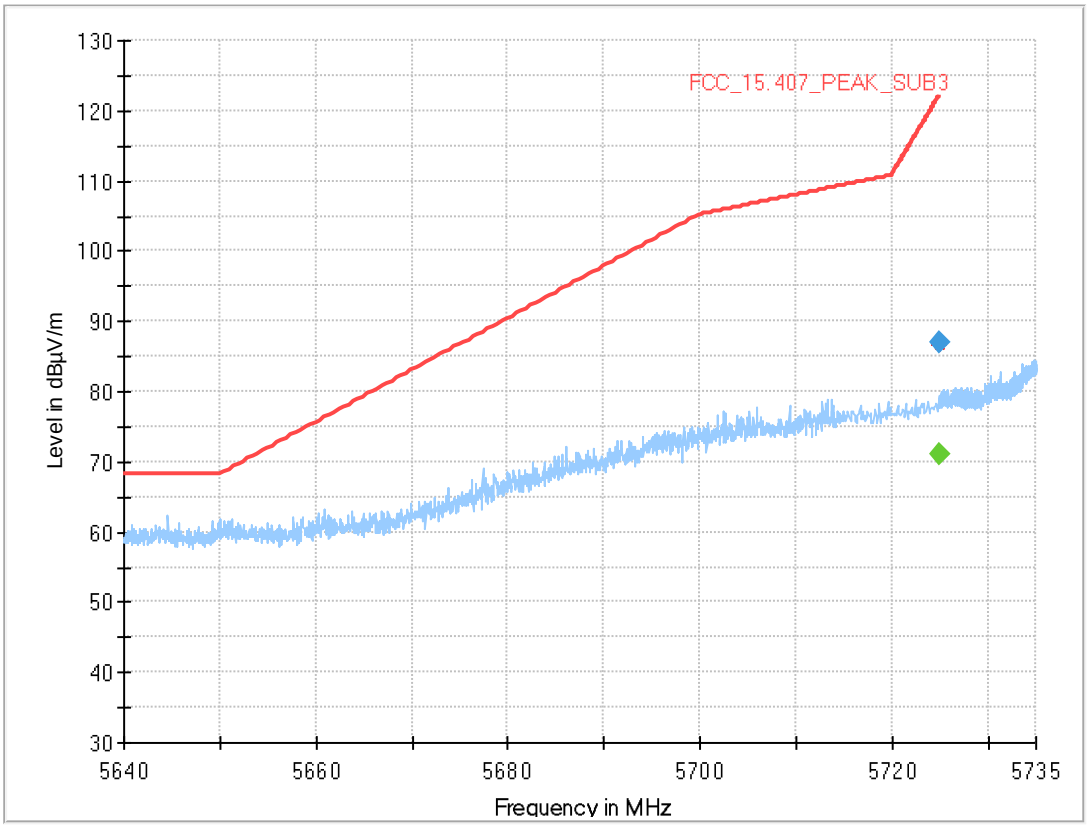
Radio Technology = WLAN ac 80 MHz MIMO, Operating Frequency = mid, Subband = U-NII-1 (S06_AJ04)



Final_Result

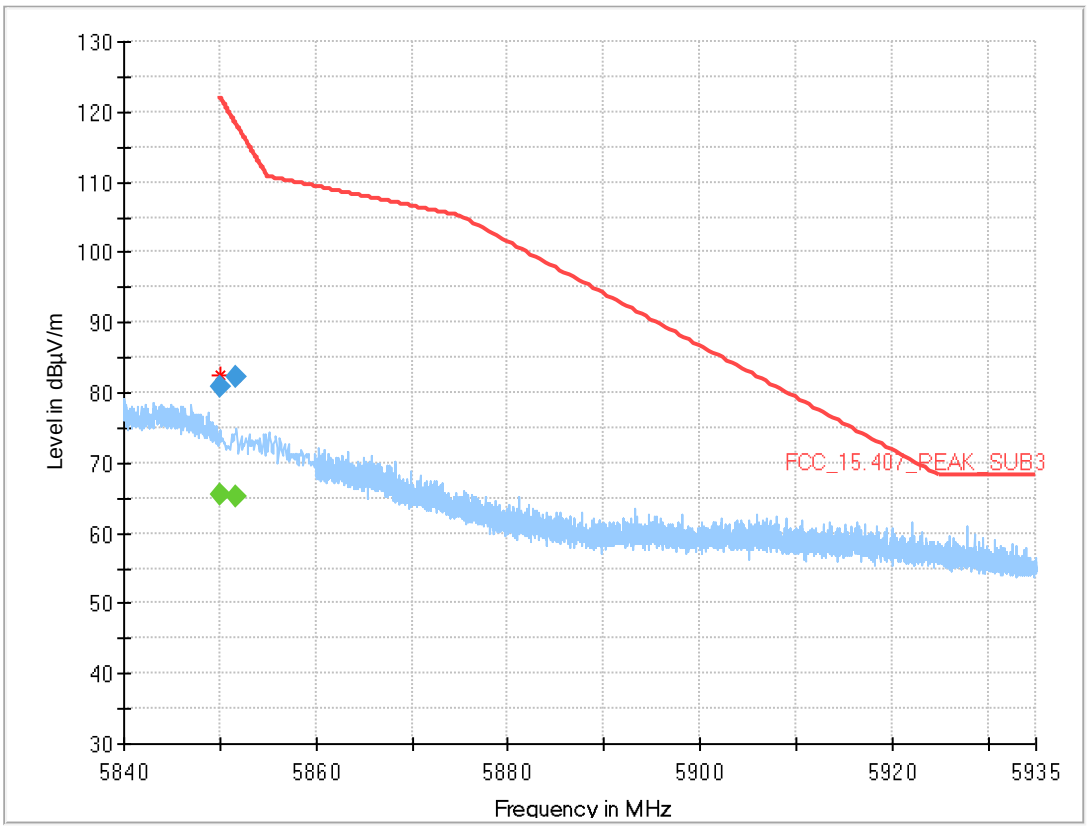
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5149.663	---	52.5	54.00	1.49	1000.0	1000.000	150.0	H	40.0	96.0	15.0
5149.663	68.4	---	74.00	5.63	1000.0	1000.000	150.0	H	40.0	96.0	15.0

Radio Technology = WLAN ac 80 MHz MIMO, Operating Frequency = mid, Subband = U-NII-3 (S06_AJ04)



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5724.900	---	71.0	---	---	1000.0	1000.000	150.0	V	-94.0	-6.0	15.7
5724.900	86.9	---	121.9	35.11	1000.0	1000.000	150.0	V	-94.0	-6.0	15.7



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5850.000	---	65.4	---	---	1000.0	1000.000	150.0	V	-92.0	1.0	15.8
5850.000	80.7	---	122.2	41.48	1000.0	1000.000	150.0	V	-92.0	1.0	15.8
5851.700	---	65.1	---	---	1000.0	1000.000	150.0	V	-92.0	15.0	15.8
5851.700	82.3	---	118.3	36.01	1000.0	1000.000	150.0	V	-92.0	15.0	15.8

5.3.5 TEST EQUIPMENT USED

- Radiated Emissions FAR 5 GHz FCC

6 TEST EQUIPMENT

6.1 TEST EQUIPMENT HARDWARE

1 R&S TS8997
2.4 and 5 GHz Bands Conducted Test Lab

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
1.1	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2023-12	2025-12
1.2	Opus10 THI (8152.00)	T/H Logger 14	Lufft Mess- und Regeltechnik GmbH	13993	2023-12	2025-12
1.3	OSP120	Contains Power Meter and Switching Unit OSP-B157W8 PLUS	Rohde & Schwarz	101158	2024-08	2027-08

2 Radiated Emissions FAR 5 GHz FCC
Radiated Emissions Tests for 5 GHz bands in a fully anechoic room

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
2.1	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2023-12	2025-12
2.2	Innco Systems CO3000	Controller for bore sight mast FAC	innco systems GmbH	CO3000/1460/54740522/P	N/A	N/A
2.3	AMF-7D00101800-30-10P-R	Broadband Amplifier 100 MHz - 18 GHz	Miteq		N/A	N/A
2.4	Anechoic Chamber 03	FAR, 8.80m x 4.60m x 4.05m (l x w x h)	Albatross Projects	P26971-647-001-PRB	N/A	N/A
2.5	Fluke 177	Digital Multimeter 03 (Multimeter)	Fluke Europe B.V.	86670383	2023-08	2025-08
2.6	JS4-18002600-32-5P	Broadband Amplifier 18 GHz - 26 GHz	Miteq	849785	N/A	N/A
2.7	FSW43	Spectrum Analyzer	Rohde & Schwarz GmbH & Co. KG	103779	2023-04	2025-04
2.8	EP 1200/B, NA/B1	AC Source, Amplifier with integrated variable Oscillator	Spitzenberger & Spies GmbH & Co. KG	B6278	N/A	N/A
2.9	3160-09	Standard Gain / Pyramidal Horn Antenna 26.5 GHz	EMCO Elektronic GmbH	00083069	N/A	N/A
2.10	WHKX 7.0/18G-8SS	High Pass Filter	Wainwright Instruments GmbH	09	N/A	N/A
2.11	MA3000/0800-XP-ET-compact	Bore Sight Antenna Mast	innco systems GmbH	9210522	N/A	N/A
2.12	TT 1.5 WI	Turn Table	Maturo GmbH	-	N/A	N/A

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
2.13	3160-10	Standard Gain / Pyramidal Horn Antenna 40 GHz	EMCO Elektronic GmbH	00086675	N/A	N/A
2.14	Opus 20 THI (8120.00)	ThermoHygro Datalogger	Lufft Mess- und Regeltechnik GmbH	115.0318.0802.033	2023-08	2025-08
2.15	TD1.5-10kg	EUT Tilt Device (Rohacell)	Maturo GmbH	TD1.5-10kg/024/3790709	N/A	N/A
2.16	AFS42-00101800-25-S-42	Broadband Amplifier 25 MHz - 18 GHz	Miteq	2035324	N/A	N/A
2.17	HF 907	Double-ridged horn	Rohde & Schwarz	102444	2024-10	2027-10

3 Radiated Emissions SAC H-Field
Radiated emission tests in the H-Field in a semi anechoic room

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
3.1	N5000/NP	Filter for EUT, 2 Lines, 250 V, 16 A	ETS-LINDGREN	241515	N/A	N/A
3.2	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2023-12	2025-12
3.3	ESW44	EMI Receiver / Spectrum Analyzer	Rohde & Schwarz GmbH & Co. KG	101603	2024-03	2026-03
3.4	Anechoic Chamber 01	SAC/FAR, 10.58 m x 6.38 m x 6.00 m	Frankonia Germany EMC Solution GmbH	none	N/A	N/A
3.5	Fluke 177	Digital Multimeter 03 (Multimeter)	Fluke Europe B.V.	86670383	2023-08	2025-08
3.6	Opus10 THI (8152.00)	T/H Logger 10	Lufft Mess- und Regeltechnik GmbH	12488	2023-12	2025-12
3.7	EP 1200/B, NA/B1	AC Source, Amplifier with integrated variable Oscillator	Spitzenberger & Spies GmbH & Co. KG	B6278	N/A	N/A
3.8	DS 420S	Turn Table 2 m diameter	HD GmbH	420/573/99	N/A	N/A
3.9	HFH2-Z2	Loop Antenna + 3 Axis Tripod	Rohde & Schwarz GmbH & Co. KG	829324/006	2024-04	2027-04
3.10	CS-RUB6	Rubidium Frequency Standard	Rohde & Schwarz GmbH & Co. KG	100321	2023-10	2025-10

4 Radiated Emissions SAC up to 1 GHz
Radiated emission tests up to 1 GHz in a semi anechoic room

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
4.1	N5000/NP	Filter for EUT, 2 Lines, 250 V, 16 A	ETS-LINDGREN	241515	N/A	N/A
4.2	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2023-12	2025-12
4.3	ESW44	EMI Receiver / Spectrum Analyzer	Rohde & Schwarz GmbH & Co. KG	101603	2024-03	2026-03
4.4	Anechoic Chamber 01	SAC/FAR, 10.58 m x 6.38 m x 6.00 m	Frankonia Germany EMC Solution GmbH	none	N/A	N/A
4.5	HL 562 ULTRALOG	Biconical-log-per antenna (30 MHz - 3 GHz) with HL 562E biconicals	Rohde & Schwarz GmbH & Co. KG	830547/003		
4.6	Fluke 177	Digital Multimeter 03 (Multimeter)	Fluke Europe B.V.	86670383	2023-08	2025-08
4.7	Opus10 THI (8152.00)	T/H Logger 10	Lufft Mess- und Regeltechnik GmbH	12488	2023-12	2025-12
4.8	EP 1200/B, NA/B1	AC Source, Amplifier with integrated variable Oscillator	Spitzenberger & Spies GmbH & Co. KG	B6278	N/A	N/A
4.9	DS 420S	Turn Table 2 m diameter	HD GmbH	420/573/99	N/A	N/A
4.10	HL562E ULTRALOG	Biconical-log-per Antenna (30 MHz - 6 GHz)	Rohde & Schwarz GmbH & Co. KG	102299	2024-07	2027-07
4.11	Chase CBL6111C + INMET 64671 18N-6dB	Hybrid Antenna with 6dB Attenuator		2624 | Kartei-Nr E-003226/K1026	2023-03	2026-03
4.12	CS-RUB6	Rubidium Frequency Standard	Rohde & Schwarz GmbH & Co. KG	100321	2023-10	2025-10
4.13	AM 4.0	Antenna Mast 4 m	Maturo GmbH	AM4.0/180/1192 0513	N/A	N/A

The calibration interval is the time interval between “Last Calibration” and “Calibration Due”

6.2 TEST EQUIPMENT SOFTWARE

Semi-Anechoic Chamber:	
Software	Version
EMC32 Measurement Software	10.60.10
INNCO Mast Controller	1.02.62
INNCO Mast Height	34.10
INNCO Mast Elevation	36.11
MATURO Controller	1.24
MATURO Mast	12.19
MATURO Turn-Table	30.10
Fully-Anechoic Chamber:	
Software	Version
EMC32 Measurement Software	10.60.10
MATURO Controller	1.30
MATURO Turn-Unit	11.10
MATURO Mast	12.10
MATURO Turntable	12.11
INNCO Controller	1.03.02
INNCO Mast Height	34.10
INNCO Mast Elevation	36.11
TS 8997	
WMS32 Measurement Software	11.60.00 (till 2024-03-19), 11.70.00 + Hotfix 01
Conducted AC Emissions:	
Software	Version
EMC32 Measurement Software	10.60.20

7 ANTENNA FACTORS, CABLE LOSS AND SAMPLE CALCULATIONS

This chapter contains the antenna factors with their corresponding path loss of the used measurement path for all antennas as well as the insertion loss of the LISN.

7.1 LISN R&S ESH3-Z5 (150 KHZ – 30 MHZ)

Frequency		Corr.	LISN insertion loss ESH3-Z5	cable loss (incl. 10 dB atten-uator)
MHz		dB	dB	dB
0.15		10.1	0.1	10.0
5		10.3	0.1	10.2
7		10.5	0.2	10.3
10		10.5	0.2	10.3
12		10.7	0.3	10.4
14		10.7	0.3	10.4
16		10.8	0.4	10.4
18		10.9	0.4	10.5
20		10.9	0.4	10.5
22		11.1	0.5	10.6
24		11.1	0.5	10.6
26		11.2	0.5	10.7
28		11.2	0.5	10.7
30		11.3	0.5	10.8

Sample calculation

U_{LISN} (dB µV) = U (dB µV) + Corr. (dB)
U = Receiver reading
LISN Insertion loss = Voltage Division Factor of LISN
Corr. = sum of single correction factors of used LISN, cables, switch units (if used)
Linear interpolation will be used for frequencies in between the values in the table.

7.2 ANTENNA R&S HFH2-Z2 (9 KHZ – 30 MHZ)

Frequency	AF HFH-Z2)	Corr.	cable loss 1 (inside chamber)	cable loss 2 (outside chamber)	cable loss 3 (switch unit)	cable loss 4 (to receiver)	distance corr. (-40 dB/ decade)	d_{Limit} (meas. distance (limit)	d_{used} (meas. distance (used)
MHz	dB (1/m)	dB	dB	dB	dB	dB	dB	m	m
0.009	20.50	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.01	20.45	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.015	20.37	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.02	20.36	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.025	20.38	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.03	20.32	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.05	20.35	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.08	20.30	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.1	20.20	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.2	20.17	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.3	20.14	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.49	20.12	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.490001	20.12	-39.6	0.1	0.1	0.1	0.1	-40	30	3
0.5	20.11	-39.6	0.1	0.1	0.1	0.1	-40	30	3
0.8	20.10	-39.6	0.1	0.1	0.1	0.1	-40	30	3
1	20.09	-39.6	0.1	0.1	0.1	0.1	-40	30	3
2	20.08	-39.6	0.1	0.1	0.1	0.1	-40	30	3
3	20.06	-39.6	0.1	0.1	0.1	0.1	-40	30	3
4	20.05	-39.5	0.2	0.1	0.1	0.1	-40	30	3
5	20.05	-39.5	0.2	0.1	0.1	0.1	-40	30	3
6	20.02	-39.5	0.2	0.1	0.1	0.1	-40	30	3
8	19.95	-39.5	0.2	0.1	0.1	0.1	-40	30	3
10	19.83	-39.4	0.2	0.1	0.2	0.1	-40	30	3
12	19.71	-39.4	0.2	0.1	0.2	0.1	-40	30	3
14	19.54	-39.4	0.2	0.1	0.2	0.1	-40	30	3
16	19.53	-39.3	0.3	0.1	0.2	0.1	-40	30	3
18	19.50	-39.3	0.3	0.1	0.2	0.1	-40	30	3
20	19.57	-39.3	0.3	0.1	0.2	0.1	-40	30	3
22	19.61	-39.3	0.3	0.1	0.2	0.1	-40	30	3
24	19.61	-39.3	0.3	0.1	0.2	0.1	-40	30	3
26	19.54	-39.3	0.3	0.1	0.2	0.1	-40	30	3
28	19.46	-39.2	0.3	0.1	0.3	0.1	-40	30	3
30	19.73	-39.1	0.4	0.1	0.3	0.1	-40	30	3

Sample calculation

E (dB µV/m) = U (dB µV) + AF (dB 1/m) + Corr. (dB)
U = Receiver reading
AF = Antenna factor
Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)
distance correction = -40 * LOG (d_{Limit}/ d_{used})
Linear interpolation will be used for frequencies in between the values in the table.
Table shows an extract of values

7.3 ANTENNA R&S HL562 (30 MHZ – 1 GHZ)

(d_{Limit} = 3 m)

Frequency	AF R&S HL562	Corr.	cable loss 1 (inside chamber)	cable loss 2 (outside chamber)	cable loss 3 (switch unit)	cable loss 4 (to receiver)	distance corr. (-20 dB/ decade)	d_{Limit} (meas. distance (limit)	d_{used} (meas. distance (used)
MHz	dB (1/m)	dB	dB	dB	dB	dB	dB	m	m
30	18.6	0.6	0.29	0.04	0.23	0.02	0.0	3	3
50	6.0	0.9	0.39	0.09	0.32	0.08	0.0	3	3
100	9.7	1.2	0.56	0.14	0.47	0.08	0.0	3	3
150	7.9	1.6	0.73	0.20	0.59	0.12	0.0	3	3
200	7.6	1.9	0.84	0.21	0.70	0.11	0.0	3	3
250	9.5	2.1	0.98	0.24	0.80	0.13	0.0	3	3
300	11.0	2.3	1.04	0.26	0.89	0.15	0.0	3	3
350	12.4	2.6	1.18	0.31	0.96	0.13	0.0	3	3
400	13.6	2.9	1.28	0.35	1.03	0.19	0.0	3	3
450	14.7	3.1	1.39	0.38	1.11	0.22	0.0	3	3
500	15.6	3.2	1.44	0.39	1.20	0.19	0.0	3	3
550	16.3	3.5	1.55	0.46	1.24	0.23	0.0	3	3
600	17.2	3.5	1.59	0.43	1.29	0.23	0.0	3	3
650	18.1	3.6	1.67	0.34	1.35	0.22	0.0	3	3
700	18.5	3.6	1.67	0.42	1.41	0.15	0.0	3	3
750	19.1	4.1	1.87	0.54	1.46	0.25	0.0	3	3
800	19.6	4.1	1.90	0.46	1.51	0.25	0.0	3	3
850	20.1	4.4	1.99	0.60	1.56	0.27	0.0	3	3
900	20.8	4.7	2.14	0.60	1.63	0.29	0.0	3	3
950	21.1	4.8	2.22	0.60	1.66	0.33	0.0	3	3
1000	21.6	4.9	2.23	0.61	1.71	0.30	0.0	3	3

(d_{Limit} = 10 m)

30	18.6	-9.9	0.29	0.04	0.23	0.02	-10.5	10	3
50	6.0	-9.6	0.39	0.09	0.32	0.08	-10.5	10	3
100	9.7	-9.2	0.56	0.14	0.47	0.08	-10.5	10	3
150	7.9	-8.8	0.73	0.20	0.59	0.12	-10.5	10	3
200	7.6	-8.6	0.84	0.21	0.70	0.11	-10.5	10	3
250	9.5	-8.3	0.98	0.24	0.80	0.13	-10.5	10	3
300	11.0	-8.1	1.04	0.26	0.89	0.15	-10.5	10	3
350	12.4	-7.9	1.18	0.31	0.96	0.13	-10.5	10	3
400	13.6	-7.6	1.28	0.35	1.03	0.19	-10.5	10	3
450	14.7	-7.4	1.39	0.38	1.11	0.22	-10.5	10	3
500	15.6	-7.2	1.44	0.39	1.20	0.19	-10.5	10	3
550	16.3	-7.0	1.55	0.46	1.24	0.23	-10.5	10	3
600	17.2	-6.9	1.59	0.43	1.29	0.23	-10.5	10	3
650	18.1	-6.9	1.67	0.34	1.35	0.22	-10.5	10	3
700	18.5	-6.8	1.67	0.42	1.41	0.15	-10.5	10	3
750	19.1	-6.3	1.87	0.54	1.46	0.25	-10.5	10	3
800	19.6	-6.3	1.90	0.46	1.51	0.25	-10.5	10	3
850	20.1	-6.0	1.99	0.60	1.56	0.27	-10.5	10	3
900	20.8	-5.8	2.14	0.60	1.63	0.29	-10.5	10	3
950	21.1	-5.6	2.22	0.60	1.66	0.33	-10.5	10	3
1000	21.6	-5.6	2.23	0.61	1.71	0.30	-10.5	10	3

Sample calculation

E (dB µV/m) = U (dB µV) + AF (dB 1/m) + Corr. (dB)
U = Receiver reading
AF = Antenna factor
Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)
distance correction = -20 * LOG (d_{Limit}/ d_{used})
Linear interpolation will be used for frequencies in between the values in the table.
Tables show an extract of values.

7.4 ANTENNA R&S HF907 (1 GHZ – 18 GHZ)

Frequency	AF R&S HF907	Corr.	cable loss 1 (relay + cable inside chamber)	cable loss 2 (outside chamber)	cable loss 3 (switch unit, atten-uator & pre-amp)	cable loss 4 (to receiver)		
MHz	dB (1/m)	dB	dB	dB	dB	dB		
1000	24.4	-19.4	0.99	0.31	-21.51	0.79		
2000	28.5	-17.4	1.44	0.44	-20.63	1.38		
3000	31.0	-16.1	1.87	0.53	-19.85	1.33		
4000	33.1	-14.7	2.41	0.67	-19.13	1.31		
5000	34.4	-13.7	2.78	0.86	-18.71	1.40		
6000	34.7	-12.7	2.74	0.90	-17.83	1.47		
7000	35.6	-11.0	2.82	0.86	-16.19	1.46		

Frequency	AF R&S HF907	Corr.	cable loss 1 (relay inside chamber)	cable loss 2 (inside chamber)	cable loss 3 (outside chamber)	cable loss 4 (switch unit, atten-uator & pre-amp)	cable loss 5 (to receiver)	used for FCC 15.247
MHz	dB (1/m)	dB	dB	dB	dB	dB	dB	
3000	31.0	-23.4	0.47	1.87	0.53	-27.58	1.33	
4000	33.1	-23.3	0.56	2.41	0.67	-28.23	1.31	
5000	34.4	-21.7	0.61	2.78	0.86	-27.35	1.40	
6000	34.7	-21.2	0.58	2.74	0.90	-26.89	1.47	
7000	35.6	-19.8	0.66	2.82	0.86	-25.58	1.46	

Frequency	AF R&S HF907	Corr.	cable loss 1 (relay inside chamber)	cable loss 2 (High Pass)	cable loss 3 (pre-amp)	cable loss 4 (inside chamber)	cable loss 5 (outside chamber)	cable loss 6 (to receiver)
MHz	dB (1/m)	dB	dB	dB	dB	dB	dB	dB
7000	35.6	-57.3	0.56	1.28	-62.72	2.66	0.94	1.46
8000	36.3	-56.3	0.69	0.71	-61.49	2.84	1.00	1.53
9000	37.1	-55.3	0.68	0.65	-60.80	3.06	1.09	1.60
10000	37.5	-56.2	0.70	0.54	-61.91	3.28	1.20	1.67
11000	37.5	-55.3	0.80	0.61	-61.40	3.43	1.27	1.70
12000	37.6	-53.7	0.84	0.42	-59.70	3.53	1.26	1.73
13000	38.2	-53.5	0.83	0.44	-59.81	3.75	1.32	1.83
14000	39.9	-56.3	0.91	0.53	-63.03	3.91	1.40	1.77
15000	40.9	-54.1	0.98	0.54	-61.05	4.02	1.44	1.83
16000	41.3	-54.1	1.23	0.49	-61.51	4.17	1.51	1.85
17000	42.8	-54.4	1.36	0.76	-62.36	4.34	1.53	2.00
18000	44.2	-54.7	1.70	0.53	-62.88	4.41	1.55	1.91

Sample calculation

E (dB µV/m) = U (dB µV) + AF (dB 1/m) + Corr. (dB)
U = Receiver reading
AF = Antenna factor
Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)
Linear interpolation will be used for frequencies in between the values in the table.
Tables show an extract of values.

7.5 ANTENNA EMCO 3160-09 (18 GHZ – 26.5 GHZ)

Frequency	AF EMCO 3160-09	Corr.	cable loss 1 (inside chamber)	cable loss 2 (pre-amp)	cable loss 3 (inside chamber)	cable loss 4 (switch unit)	cable loss 5 (to receiver)
MHz	dB (1/m)	dB	dB	dB	dB	dB	dB
18000	40.2	-23.5	0.72	-35.85	6.20	2.81	2.65
18500	40.2	-23.2	0.69	-35.71	6.46	2.76	2.59
19000	40.2	-22.0	0.76	-35.44	6.69	3.15	2.79
19500	40.3	-21.3	0.74	-35.07	7.04	3.11	2.91
20000	40.3	-20.3	0.72	-34.49	7.30	3.07	3.05
20500	40.3	-19.9	0.78	-34.46	7.48	3.12	3.15
21000	40.3	-19.1	0.87	-34.07	7.61	3.20	3.33
21500	40.3	-19.1	0.90	-33.96	7.47	3.28	3.19
22000	40.3	-18.7	0.89	-33.57	7.34	3.35	3.28
22500	40.4	-19.0	0.87	-33.66	7.06	3.75	2.94
23000	40.4	-19.5	0.88	-33.75	6.92	3.77	2.70
23500	40.4	-19.3	0.90	-33.35	6.99	3.52	2.66
24000	40.4	-19.8	0.88	-33.99	6.88	3.88	2.58
24500	40.4	-19.5	0.91	-33.89	7.01	3.93	2.51
25000	40.4	-19.3	0.88	-33.00	6.72	3.96	2.14
25500	40.5	-20.4	0.89	-34.07	6.90	3.66	2.22
26000	40.5	-21.3	0.86	-35.11	7.02	3.69	2.28
26500	40.5	-21.1	0.90	-35.20	7.15	3.91	2.36

Sample calculation

E (dB µV/m) = U (dB µV) + AF (dB 1/m) + Corr. (dB)
U = Receiver reading
AF = Antenna factor
Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)
Linear interpolation will be used for frequencies in between the values in the table.
Table shows an extract of values.

7.6 ANTENNA EMCO 3160-10 (26.5 GHZ – 40 GHZ)

Frequency	AF EMCO 3160-10	Corr.	cable loss 1 (inside chamber)	cable loss 2 (outside chamber)	cable loss 3 (switch unit)	cable loss 4 (to receiver)	distance corr. (-20 dB/ decade)	d_{Limit} (meas. distance (limit)	d_{used} (meas. distance (used)
GHz	dB (1/m)	dB	dB	dB	dB	dB	dB	m	m
26.5	43.4	-11.2	4.4				-9.5	3	1.0
27.0	43.4	-11.2	4.4				-9.5	3	1.0
28.0	43.4	-11.1	4.5				-9.5	3	1.0
29.0	43.5	-11.0	4.6				-9.5	3	1.0
30.0	43.5	-10.9	4.7				-9.5	3	1.0
31.0	43.5	-10.8	4.7				-9.5	3	1.0
32.0	43.5	-10.7	4.8				-9.5	3	1.0
33.0	43.6	-10.7	4.9				-9.5	3	1.0
34.0	43.6	-10.6	5.0				-9.5	3	1.0
35.0	43.6	-10.5	5.1				-9.5	3	1.0
36.0	43.6	-10.4	5.1				-9.5	3	1.0
37.0	43.7	-10.3	5.2				-9.5	3	1.0
38.0	43.7	-10.2	5.3				-9.5	3	1.0
39.0	43.7	-10.2	5.4				-9.5	3	1.0
40.0	43.8	-10.1	5.5				-9.5	3	1.0

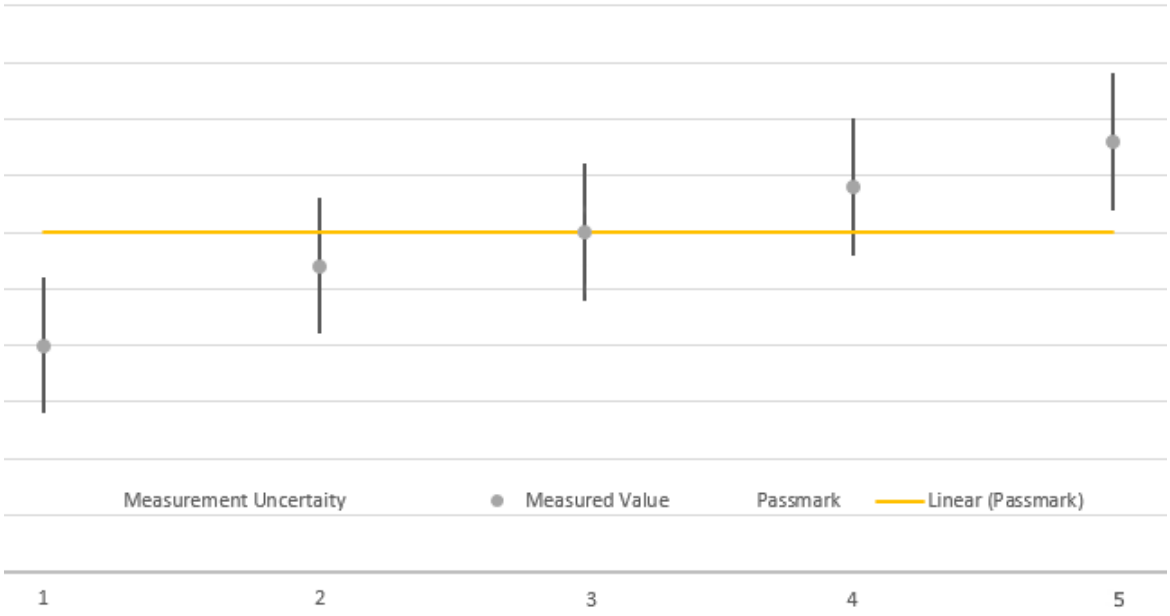
Sample calculation

E (dB µV/m) = U (dB µV) + AF (dB 1/m) + Corr. (dB)
U = Receiver reading
AF = Antenna factor
Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)
Linear interpolation will be used for frequencies in between the values in the table.
distance correction = -20 * LOG (d_{Limit}/ d_{used})
Linear interpolation will be used for frequencies in between the values in the table.
Table shows an extract of values.

8 MEASUREMENT UNCERTAINTIES

Test Case	Parameter	Uncertainty
AC Power Line	Power	± 3.4 dB
Field Strength of spurious radiation	Power	± 5.5 dB
6 dB / 26 dB / 99% Bandwidth	Power Frequency	± 2.9 dB ± 11.2 kHz
Conducted Output Power	Power	± 2.2 dB
Band Edge Compliance	Power Frequency	± 2.2 dB ± 11.2 kHz
Frequency Stability	Frequency	± 25 Hz
Power Spectral Density	Power	± 2.2 dB

The measurement uncertainties for all parameters are calculated with an expansion factor (coverage factor) k = 1.96. This means, that the true value is in the corresponding interval with a probability of 95 %.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	on pass mark	within pass mark	Passed
4	above pass mark	within pass mark	Failed
5	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

9 PHOTO REPORT

Please see separate photo report.

**********END OF TEST REPORT**********