

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: $\text{Limit (dBµV/m)} = 20 \log (\text{Limit (µV/m)}/1\mu\text{V/m})$

5.2.3 TEST PROTOCOL

(S01 AA01#S3.5):

Ambient temperature: 19 - 24 °C
 Air Pressure: 998 - 1020 hPa
 Humidity: 33 - 45 %

WLAN a-Mode; 20 MHz; 6 Mbit/s; Diversity
 Applied duty cycle correction (AV): 0.1 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
1	36	5180	5150.0	57.4	PEAK	1000	74.0	16.6	BE-RB	FCC&IC
1	36	5180	5150.0	44.1	AV	1000	54.0	9.9	BE-RB	FCC&IC
3	149	5745	5725.0	58.6	PEAK	1000	121.1	62.5	BE-UE	FCC&IC
3	165	5825	5850.0	58.5	PEAK	1000	121.5	63.0	BE-UE	FCC&IC

WLAN n-Mode; 20 MHz; MCS 8; MIMO
 Applied duty cycle correction (AV): 0 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
1	36	5180	5150.0	57.0	PEAK	1000	74.0	17.0	BE-RB	FCC&IC
1	36	5180	5150.0	44.1	AV	1000	54.0	9.9	BE-RB	FCC&IC
3	149	5745	5725.0	57.0	PEAK	1000	112.8	55.8	BE-UE	FCC&IC
3	165	5825	5850.0	58.0	PEAK	1000	119.2	61.2	BE-UE	FCC&IC

WLAN n-Mode; 40 MHz; MCS 8; MIMO
Applied duty cycle correction (AV): 0 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	38	5190	5150.0	57.0	PEAK	1000	74.0	17.0	BE-RB	FCC&IC
1	38	5190	5150.0	44.2	AV	1000	54.0	9.8	BE-RB	FCC&IC
3	151	5755	5725.0	58.0	PEAK	1000	122.2	64.2	BE-UE	FCC&IC
3	159	5795	5850.0	58.2	PEAK	1000	119.6	61.4	BE-UE	FCC&IC

WLAN ac-Mode; 20 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	36	5180	5150.0	57.1	PEAK	1000	74.0	16.9	BE-RB	FCC&IC
1	36	5180	5150.0	44.5	AV	1000	54.0	9.5	BE-RB	FCC&IC
3	149	5745	5725.0	58.2	PEAK	1000	120.1	61.9	BE-UE	FCC&IC
3	165	5825	5850.0	57.9	PEAK	1000	120.6	62.7	BE-UE	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	38	5190	5150.0	57.4	PEAK	1000	74.0	16.6	BE-RB	FCC&IC
1	38	5190	5150.0	44.3	AV	1000	54.0	9.7	BE-RB	FCC&IC
3	151	5755	5725.0	57.4	PEAK	1000	121.9	64.5	BE-UE	FCC&IC
3	159	5795	5850.0	57.7	PEAK	1000	118.3	60.6	BE-UE	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	42	5210	5150.0	57.5	PEAK	1000	74.0	16.5	BE-RB	FCC&IC
1	42	5210	5150.0	44.7	AV	1000	54.0	9.3	BE-RB	FCC&IC
3	155	5775	5725.0	58.8	PEAK	1000	122.2	63.4	BE-UE	FCC&IC
3	155	5775	5850.0	59.3	PEAK	1000	121.6	62.3	BE-UE	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	36	5180	5150.0	58.3	PEAK	1000	74.0	15.7	BE-RB	FCC&IC
1	36	5180	5150.0	44.6	AV	1000	54.0	9.4	BE-RB	FCC&IC
3	149	5745	5725.0	57.8	PEAK	1000	121.7	63.9	BE-UE	FCC&IC
3	165	5825	5850.0	59.2	PEAK	1000	110.8	51.6	BE-UE	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	38	5190	5150.0	58.1	PEAK	1000	74.0	15.9	BE-RB	FCC&IC
1	38	5190	5150.0	44.6	AV	1000	54.0	9.4	BE-RB	FCC&IC
3	151	5755	5725.0	58.1	PEAK	1000	122.2	64.1	BE-UE	FCC&IC
3	159	5795	5850.0	57.4	PEAK	1000	119.9	62.5	BE-UE	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	42	5210	5150.0	58.0	PEAK	1000	74.0	16.0	BE-RB	FCC&IC
1	42	5210	5150.0	44.5	AV	1000	54.0	9.5	BE-RB	FCC&IC
3	155	5775	5725.0	59.2	PEAK	1000	120.7	61.5	BE-UE	FCC&IC
3	155	5775	5850.0	60.2	PEAK	1000	117.8	57.6	BE-UE	FCC&IC

WLAN ax-Mode; 20 MHz; MCS 0; MIMO(MU)

Applied duty cycle correction (AV): 0 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	36	5180	5150.0	58.1	PEAK	1000	74.0	15.9	BE-RB	FCC&IC
1	36	5180	5150.0	44.6	AV	1000	54.0	9.4	BE-RB	FCC&IC
3	149	5745	5725.0	57.5	PEAK	1000	121.7	64.2	BE-UE	FCC&IC
3	165	5825	5850.0	58.0	PEAK	1000	117.9	59.9	BE-UE	FCC&IC

WLAN ax-Mode; 40 MHz; MCS 0; MIMO(MU)

Applied duty cycle correction (AV): 0 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	38	5190	5150.0	57.5	PEAK	1000	74.0	16.5	BE-RB	FCC&IC
1	38	5190	5150.0	44.6	AV	1000	54.0	9.4	BE-RB	FCC&IC
3	151	5755	5725.0	58.0	PEAK	1000	122.2	64.2	BE-UE	FCC&IC
3	159	5795	5850.0	57.4	PEAK	1000	120.4	63.0	BE-UE	FCC&IC

WLAN ax-Mode; 80 MHz; MCS 0; MIMO(MU)

Applied duty cycle correction (AV): 0 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	42	5210	5150.0	57.3	PEAK	1000	74.0	16.7	BE-RB	FCC&IC
1	42	5210	5150.0	44.5	AV	1000	54.0	9.5	BE-RB	FCC&IC
3	155	5775	5725.0	63.4	PEAK	1000	121.3	57.9	BE-UE	FCC&IC
3	155	5775	5850.0	59.4	PEAK	1000	118.3	58.9	BE-UE	FCC&IC

Mode	U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Unwanted Emissions in Band 2A attenuated more than 26 dB below channel power?
WLAN a Diversity	1	48	5240	Yes
WLAN n 20 MHz MIMO	1	48	5240	Yes
WLAN n 40 MHz MIMO	1	46	5230	Yes
WLAN ac 20 MHz MIMO	1	48	5240	Yes
WLAN ac 40 MHz MIMO	1	46	5230	Yes
WLAN ac 80 MHz MIMO	1	42	5210	Yes
WLAN ax 20 MHz MIMO(SU)	1	48	5240	Yes
WLAN ax 40 MHz MIMO(SU)	1	46	5230	Yes
WLAN ax 80 MHz MIMO(SU)	1	42	5210	Yes
WLAN ax 20 MHz MIMO(MU)	1	48	5240	Yes
WLAN ax 40 MHz MIMO(MU)	1	46	5230	Yes
WLAN ax 80 MHz MIMO(MU)	1	42	5210	Yes

(S01 AB01#S3.0):

Ambient temperature:

19 - 24 °C

Air Pressure:

998 - 1020 hPa

Humidity:

33 - 45 %

WLAN a-Mode; 20 MHz; 6 Mbit/s; Diversity

Applied duty cycle correction (AV): 0.1 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	36	5180	5150.0	56.6	PEAK	1000	74.0	17.4	BE-RB	FCC&IC
1	36	5180	5150.0	44.1	AV	1000	54.0	9.9	BE-RB	FCC&IC

WLAN n-Mode; 40 MHz; MCS 8; MIMO

Applied duty cycle correction (AV): 0 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
3	159	5795	5850.0	57.4	PEAK	1000	118.1	60.7	BE-UE	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
3	155	5775	5725.0	59.0	PEAK	1000	120.2	61.2	BE-UE	FCC&IC
3	155	5775	5850.0	59.0	PEAK	1000	117.8	58.8	BE-UE	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
3	165	5825	5850.0	57.8	PEAK	1000	120.8	63.0	BE-UE	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
1	38	5190	5150.0	56.7	PEAK	1000	74.0	17.3	BE-RB	FCC&IC
1	38	5190	5150.0	44.2	AV	1000	54.0	9.8	BE-RB	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
1	42	5210	5150.0	56.9	PEAK	1000	74.0	17.1	BE-RB	FCC&IC
1	42	5210	5150.0	44.0	AV	1000	54.0	10.0	BE-RB	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
3	165	5825	5850.0	58.2	PEAK	1000	120.4	62.2	BE-UE	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
1	38	5190	5150.0	57.1	PEAK	1000	74.0	16.9	BE-RB	FCC&IC
1	38	5190	5150.0	44.2	AV	1000	54.0	9.8	BE-RB	FCC&IC

Mode	U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Unwanted Emissions in Band 2A attenuated more than 26 dB below channel power?
WLAN ac 40 MHz MIMO	1	46	5230	Yes
WLAN ax 80 MHz MIMO(SU)	1	42	5210	Yes

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

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

Trace:

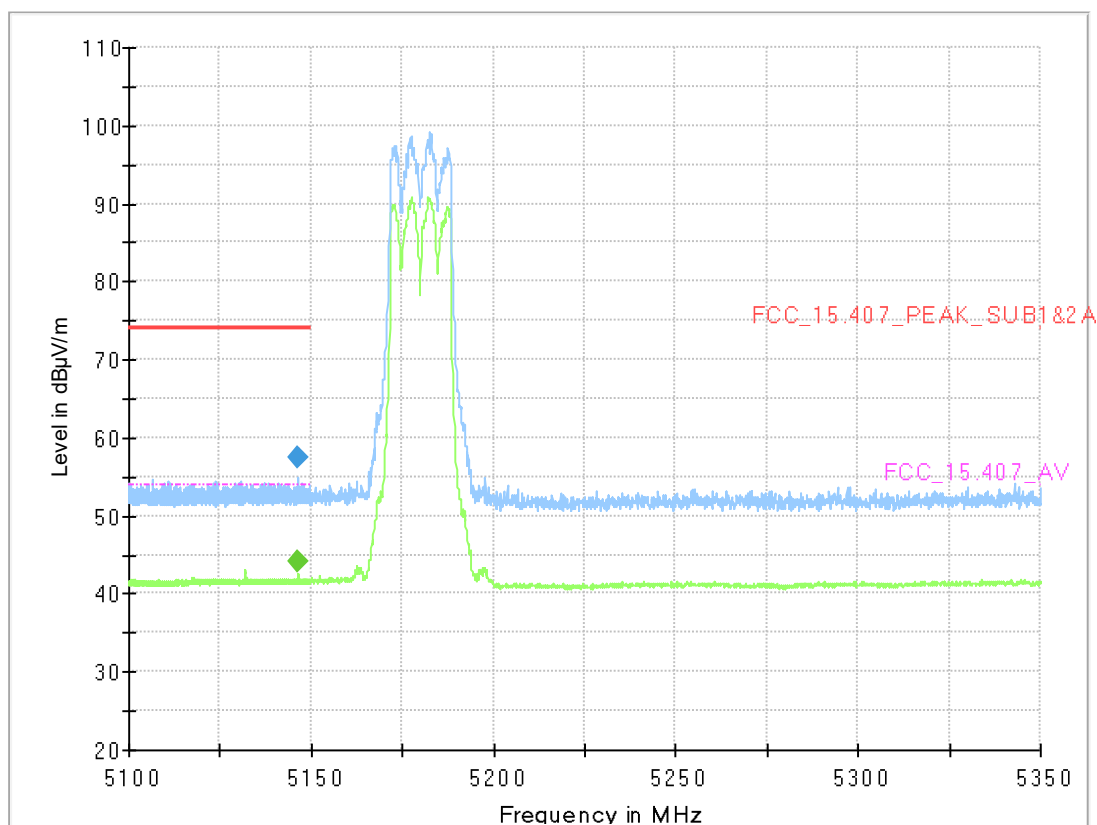
blue = Peak

green = AV

Marker:

Star = critical frequency, Rhombus = final Results

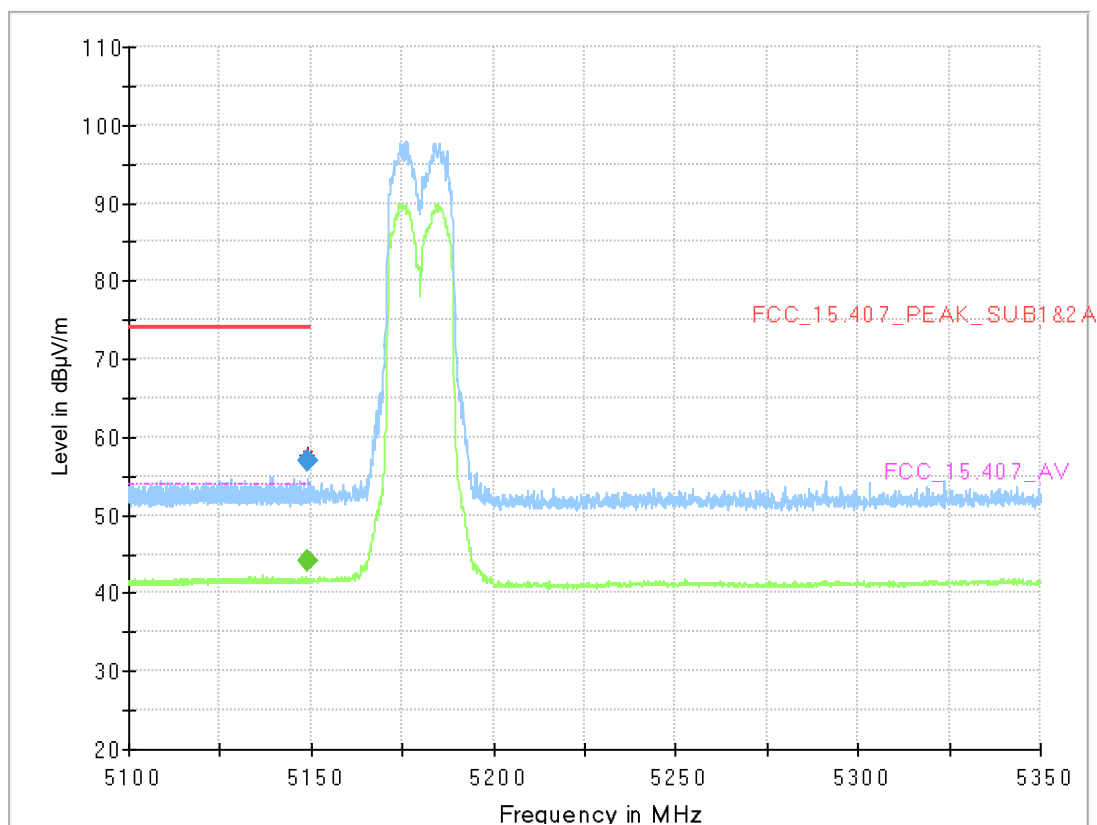
Radio Technology = WLAN a Diversity, Operating Frequency = low, Subband = U-NII-1
 Band Edge = low
 (S01_AA01#S3.5)



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)
5146.213	---	44.0	54.00	9.96	1000.0	1000.000	150.0	V	84.0	105.0	15.0
5146.213	57.4	---	74.00	16.59	1000.0	1000.000	150.0	V	84.0	105.0	15.0

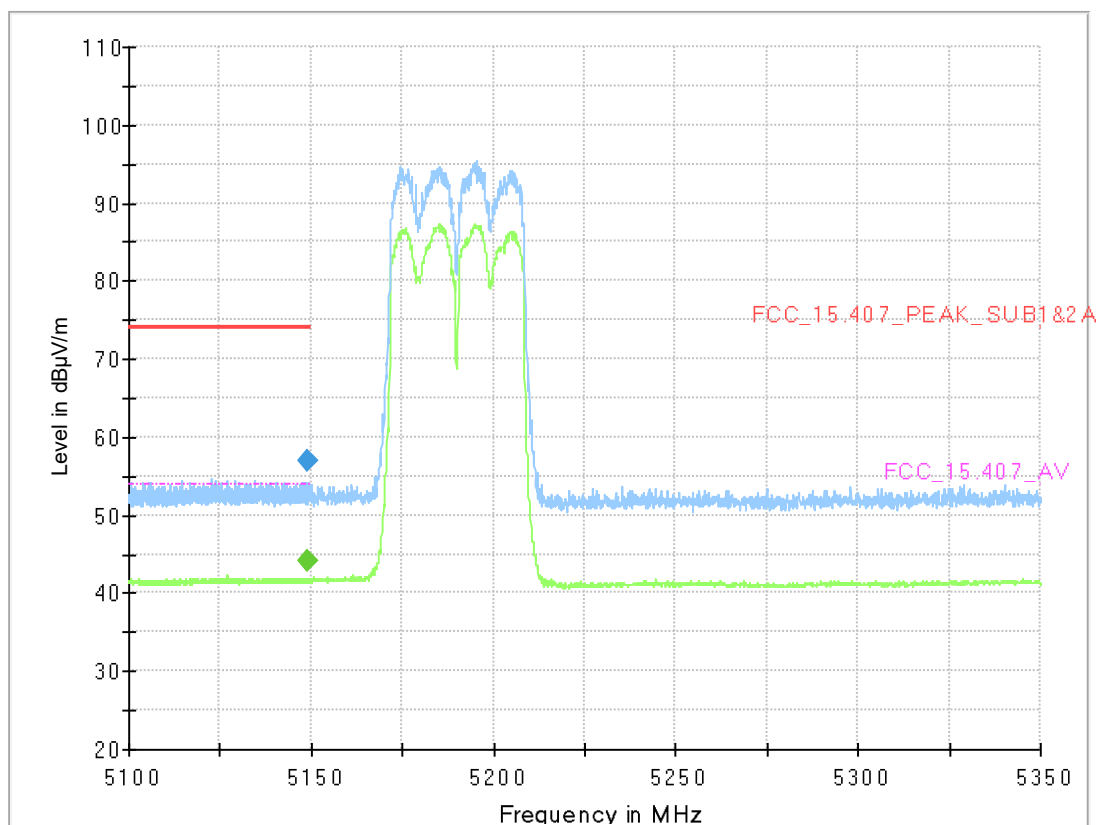
Radio Technology = WLAN n20 MIMO, Operating Frequency = low, Subband = U-NII-1
 Band Edge = low
 (S01_AA01#S3.5)



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)
5148.938	---	44.1	54.00	9.87	1000.0	1000.000	150.0	V	-176.0	15.0	15.0
5148.938	57.0	---	74.00	16.98	1000.0	1000.000	150.0	V	-176.0	15.0	15.0

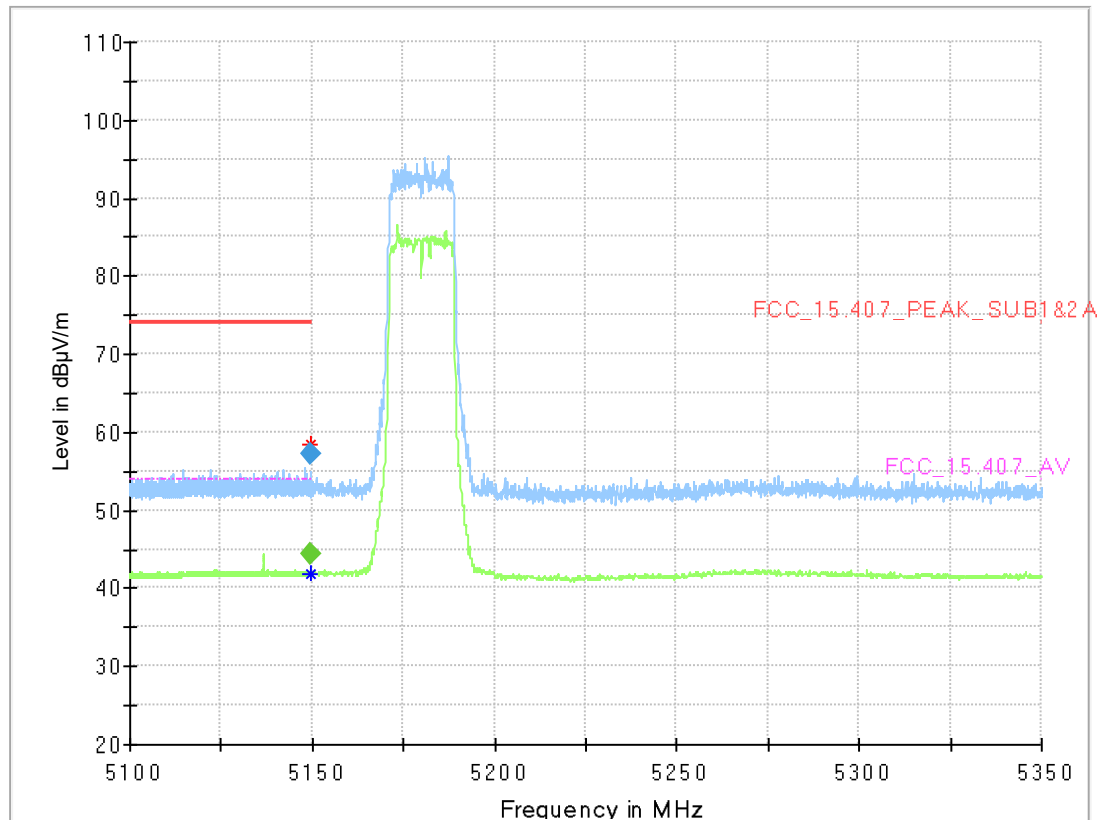
Radio Technology = WLAN n40 MIMO, Operating Frequency = low, Subband = U-NII-1
 Band Edge = low
 (S01_AA01#S3.5)



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)
5149.225	---	44.2	54.00	9.84	1000.0	1000.000	150.0	V	-132.0	105.0	15.0
5149.225	57.0	---	74.00	17.01	1000.0	1000.000	150.0	V	-132.0	105.0	15.0

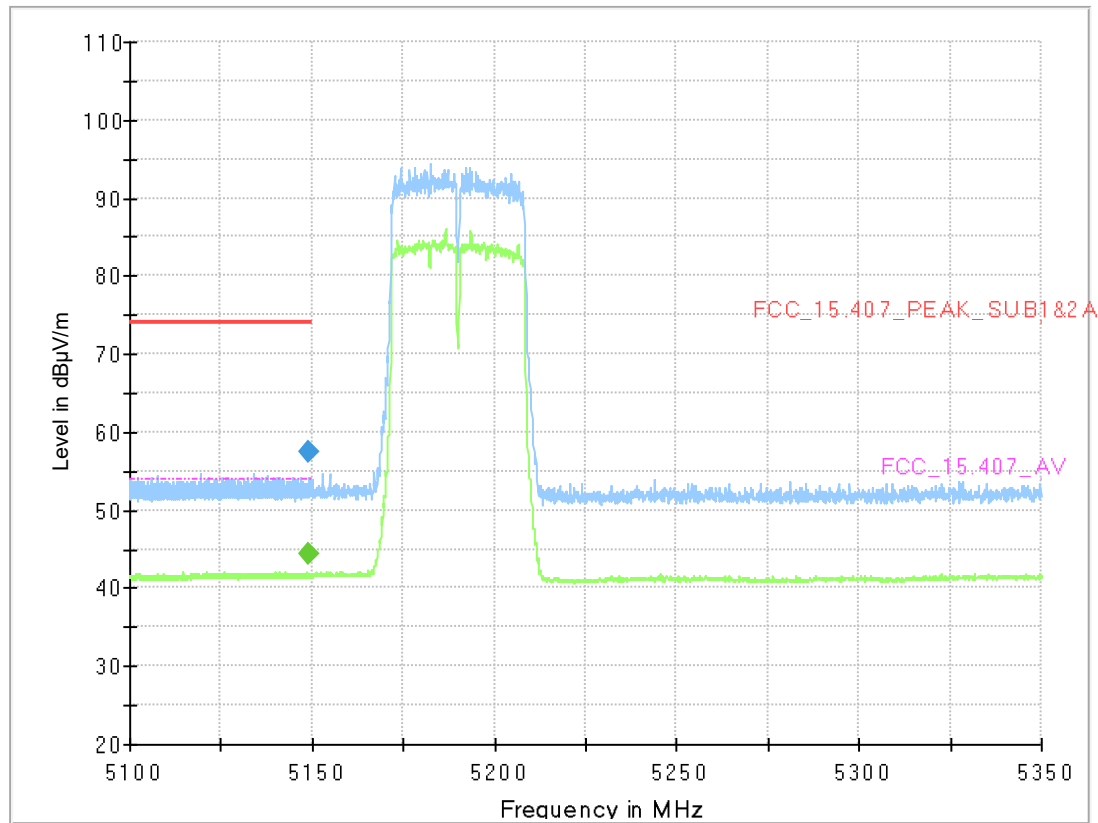
Radio Technology = WLAN ac20 MIMO, Operating Frequency = low, Subband = U-NII-1
Band Edge = low
(S01_AA01#S3.5)



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)
5149.800	---	44.5	54.00	9.54	1000.0	1000.000	150.0	H	-79.0	-2.0	15.0
5149.800	57.1	---	74.00	16.90	1000.0	1000.000	150.0	H	-79.0	-2.0	15.0

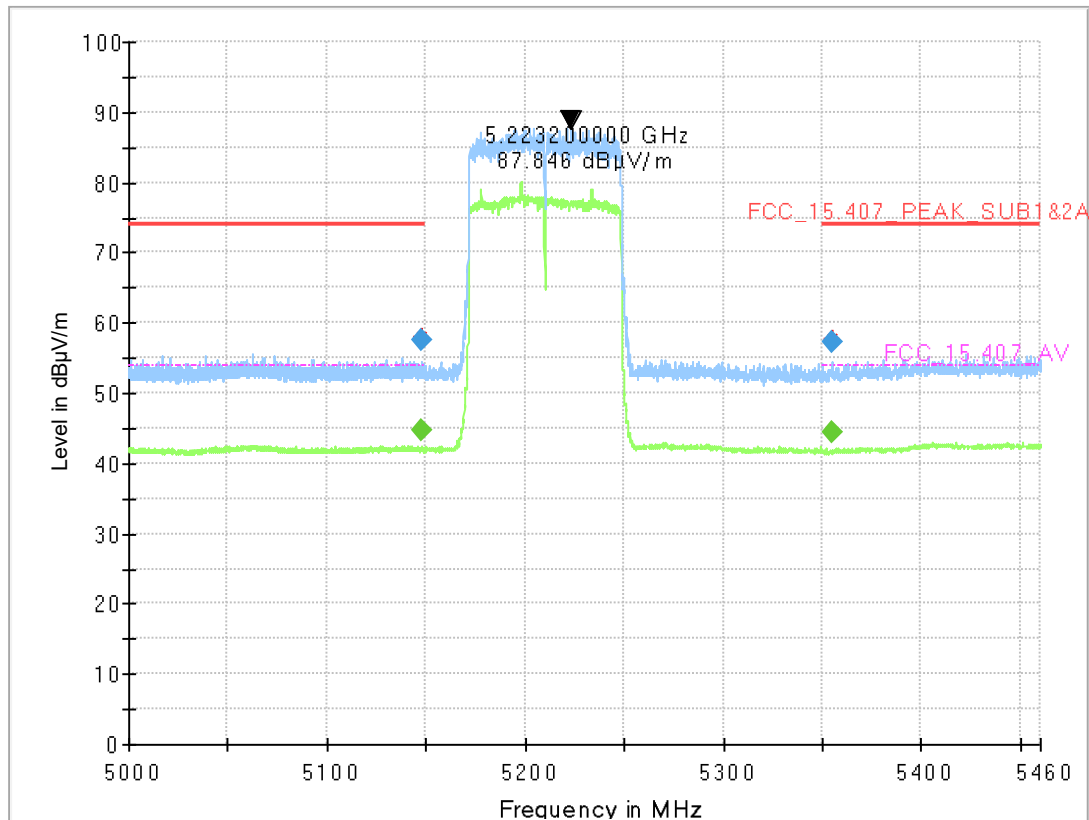
Radio Technology = WLAN ac40 MIMO, Operating Frequency = low, Subband = U-NII-1
Band Edge = low
(S01_AA01#S3.5)



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)
5149.075	---	44.3	54.00	9.70	1000.0	1000.000	150.0	V	-184.0	95.0	15.0
5149.075	57.4	---	74.00	16.64	1000.0	1000.000	150.0	V	-184.0	95.0	15.0

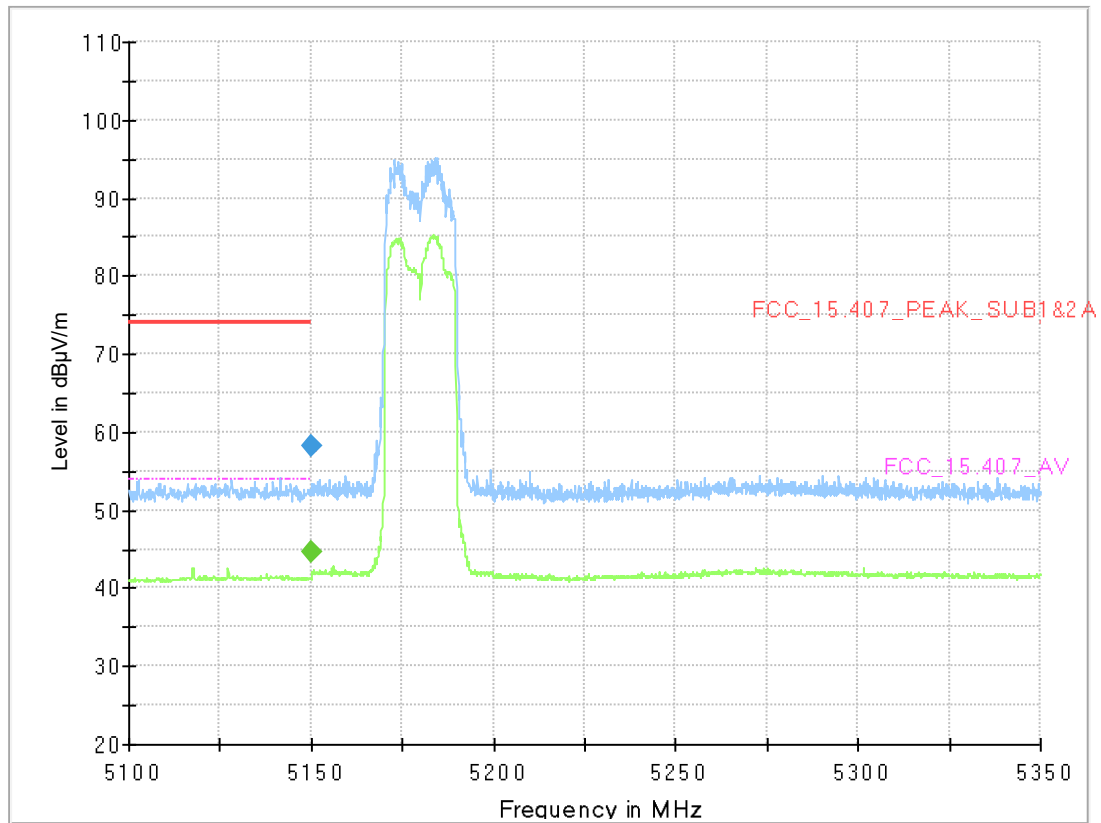
Radio Technology = WLAN ac80 MIMO, Operating Frequency = mid, Subband = U-NII-1
Band Edge = low + high
(S01_AA01#S3.5)



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)
5147.375	---	44.7	54.00	9.33	1000.0	1000.000	150.0	H	11.0	-12.0	15.0
5147.375	57.5	---	74.00	16.46	1000.0	1000.000	150.0	H	11.0	-12.0	15.0
5354.840	---	44.5	54.00	9.50	1000.0	1000.000	150.0	V	-4.0	-2.0	15.2
5354.840	57.2	---	74.00	16.75	1000.0	1000.000	150.0	V	-4.0	-2.0	15.2

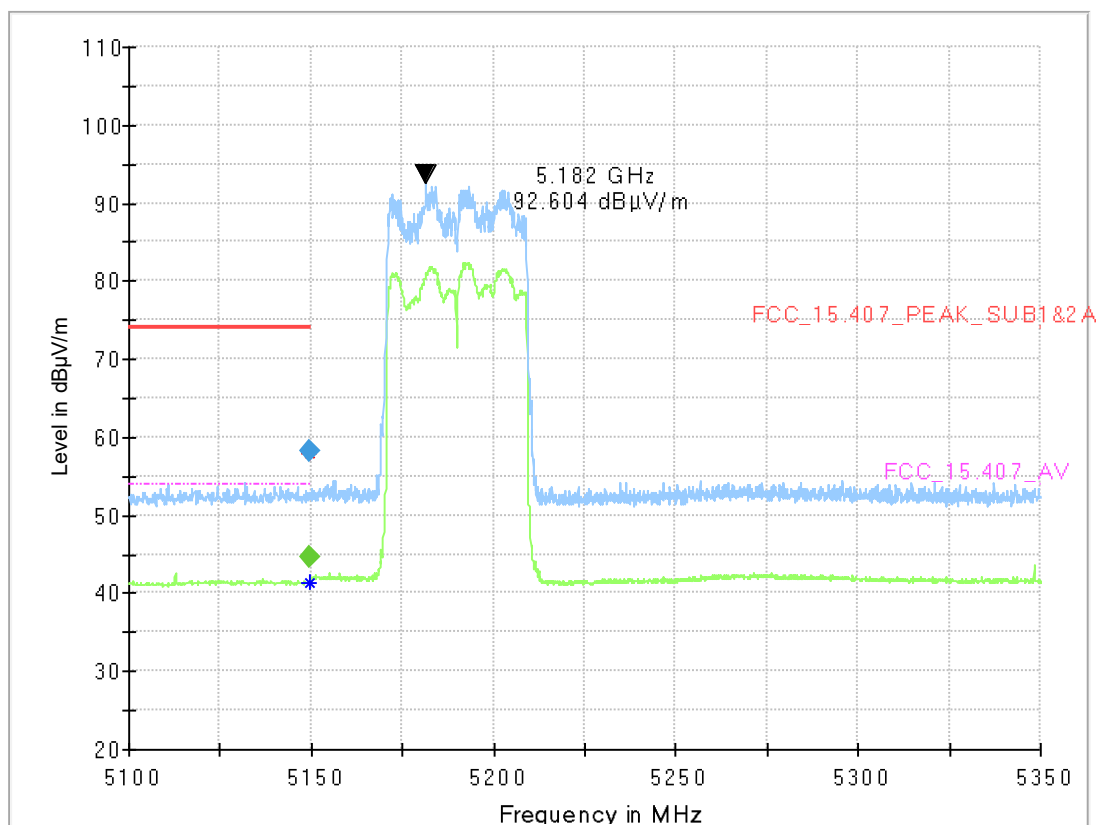
Radio Technology = WLAN ax20 MIMO(SU), Operating Frequency = low, Subband = U-NII-1
 Band Edge = low
 (S01_AA01#S3.5)



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	---	44.6	54.00	9.43	1000.0	1000.000	150.0	V	-182.0	80.0	15.0
5150.000	58.3	---	74.00	15.67	1000.0	1000.000	150.0	V	-182.0	80.0	15.0

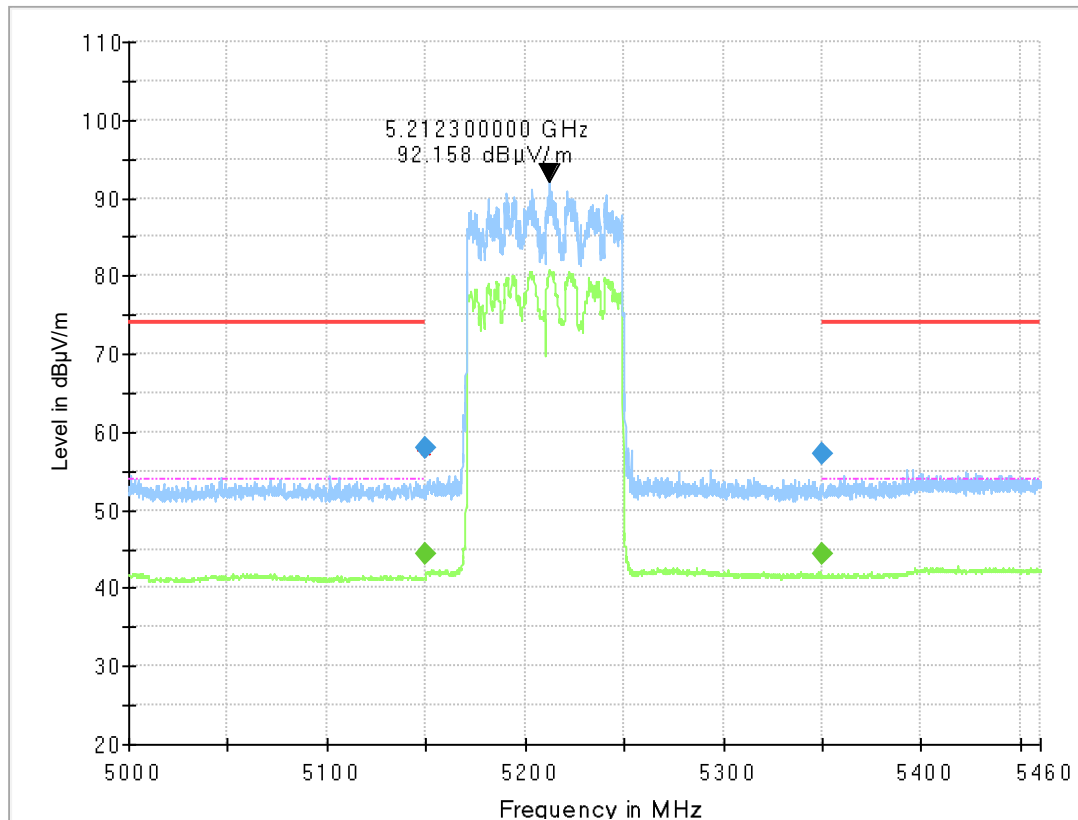
Radio Technology = WLAN ax40 MIMO(SU), Operating Frequency = low, Subband = U-NII-1
 Band Edge = low
 (S01_AA01#S3.5)



Final_Result

Frequency (MHz)	MaxPeak (dB μ V/m)	CAverage (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5149.513	---	44.6	54.00	9.40	1000.0	1000.000	150.0	V	-145.0	98.0	15.0
5149.513	58.1	---	74.00	15.93	1000.0	1000.000	150.0	V	-145.0	98.0	15.0

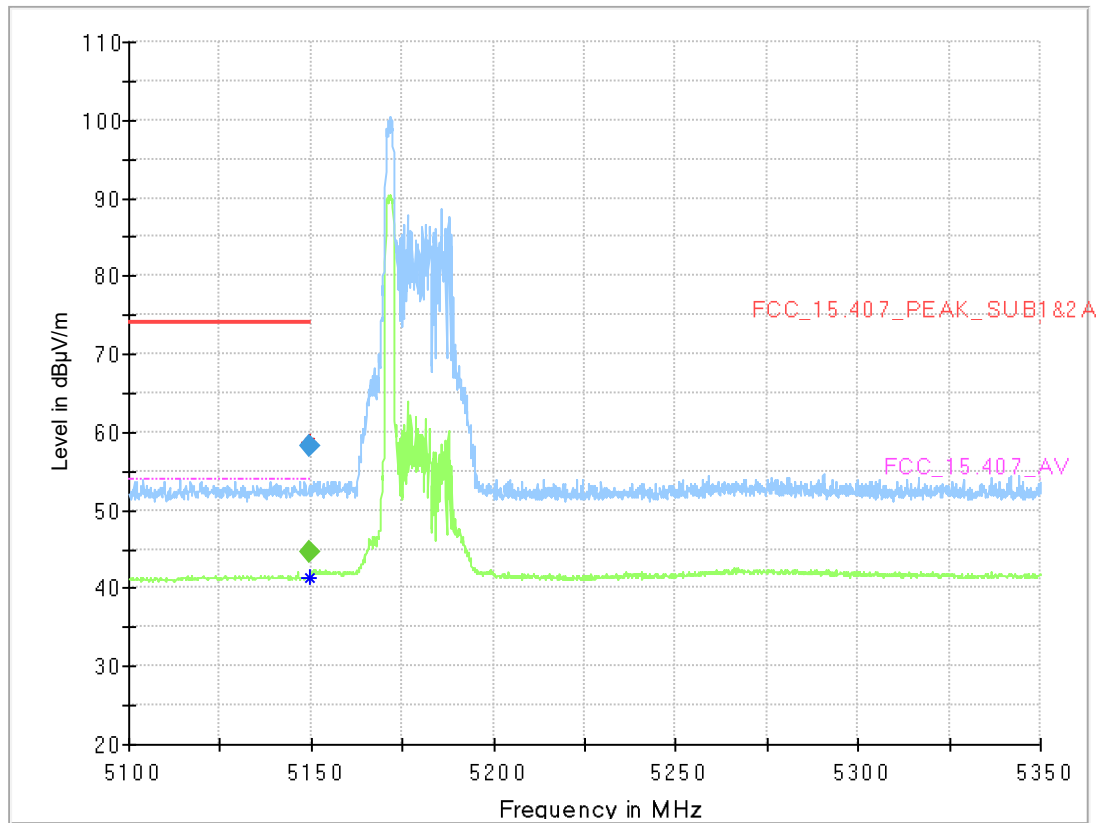
Radio Technology = WLAN ax80 MIMO(SU), Operating Frequency = mid, Subband = U-NII-1
 Band Edge = low + high
 (S01_AA01#S3.5)



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	58.0	---	74.00	16.00	1000.0	1000.000	150.0	H	-124.0	105.0	15.0
5150.000	---	44.5	54.00	9.47	1000.0	1000.000	150.0	H	-124.0	105.0	15.0
5350.110	---	44.3	54.00	9.66	1000.0	1000.000	150.0	V	-44.0	15.0	15.2
5350.110	57.3	---	74.00	16.73	1000.0	1000.000	150.0	V	-44.0	15.0	15.2

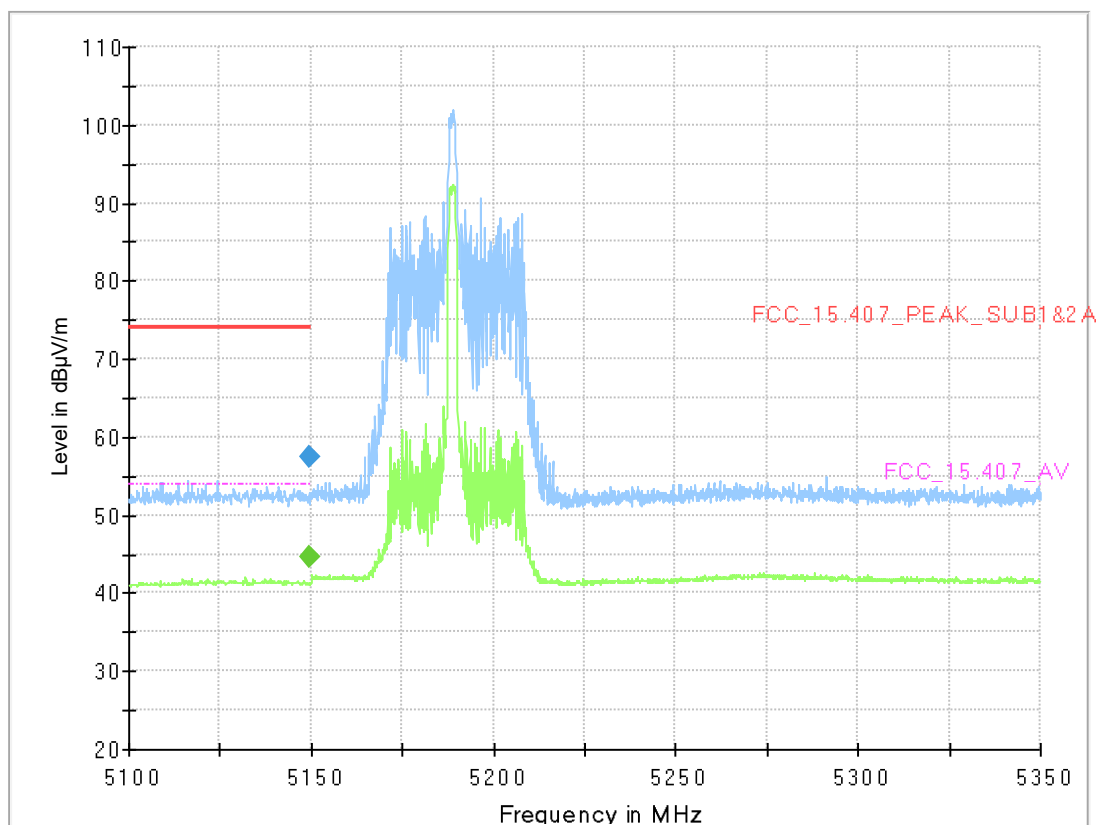
Radio Technology = WLAN ax20 MIMO(MU), Operating Frequency = low, Subband = U-NII-1
Band Edge = low
(S01_AA01#S3.5)



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)
5149.350	58.1	---	74.00	15.89	1000.0	1000.000	150.0	V	-127.0	15.0	15.0
5149.350	---	44.6	54.00	9.42	1000.0	1000.000	150.0	V	-127.0	15.0	15.0

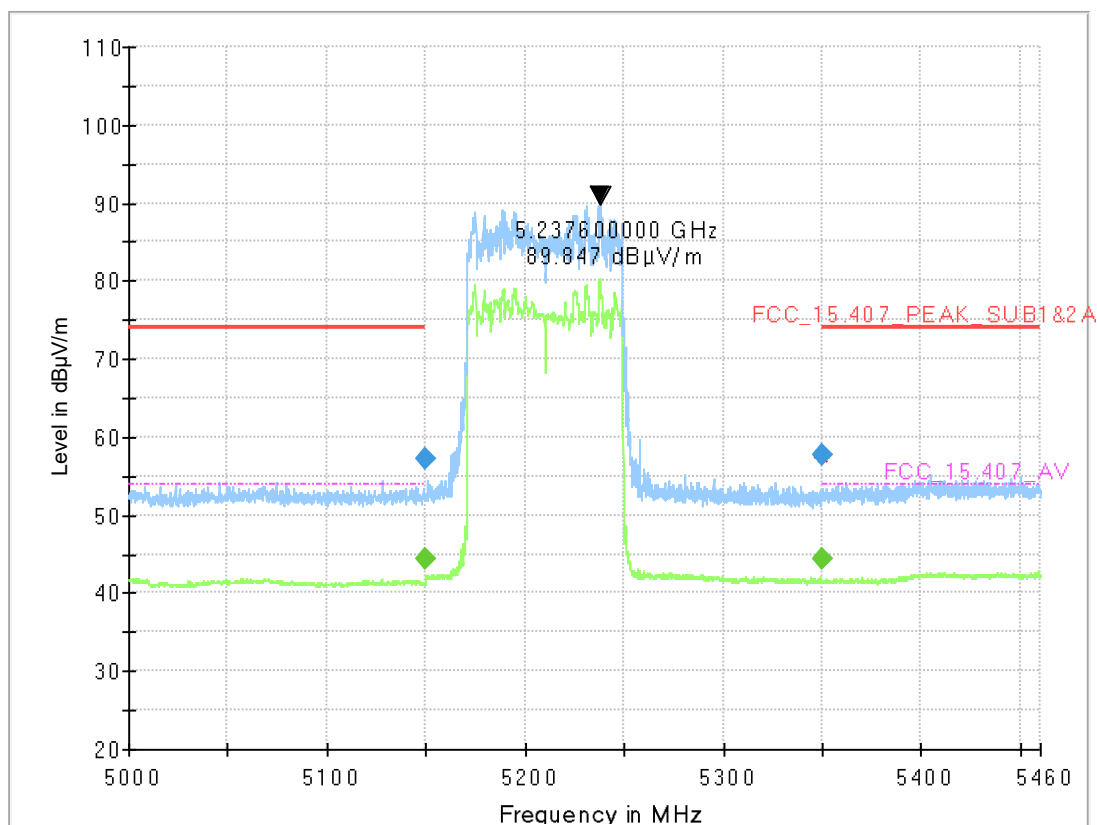
Radio Technology = WLAN ax40 MIMO(MU), Operating Frequency = low, Subband = U-NII-1
 Band Edge = low
 (S01_AA01#S3.5)



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)
5149.350	---	44.6	54.00	9.41	1000.0	1000.000	150.0	H	-34.0	88.0	15.0
5149.350	57.5	---	74.00	16.53	1000.0	1000.000	150.0	H	-34.0	88.0	15.0

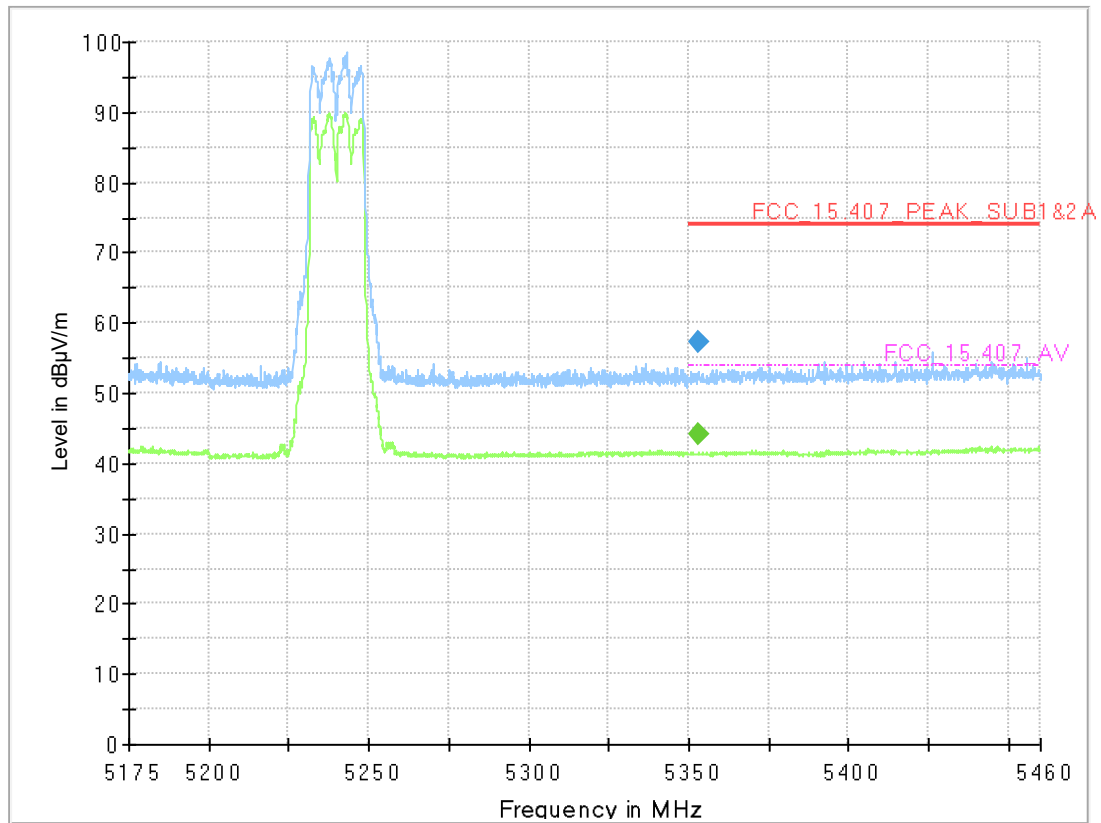
Radio Technology = WLAN ax80 MIMO(MU), Operating Frequency = mid, Subband = U-NII-1
Band Edge = low + high
(S01_AA01#S3.5)



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	---	44.5	54.00	9.47	1000.0	1000.000	150.0	V	85.0	82.0	15.0
5150.000	57.3	---	74.00	16.70	1000.0	1000.000	150.0	V	85.0	82.0	15.0
5350.000	---	44.4	54.00	9.62	1000.0	1000.000	150.0	V	-124.0	88.0	15.2
5350.000	57.6	---	74.00	16.45	1000.0	1000.000	150.0	V	-124.0	88.0	15.2

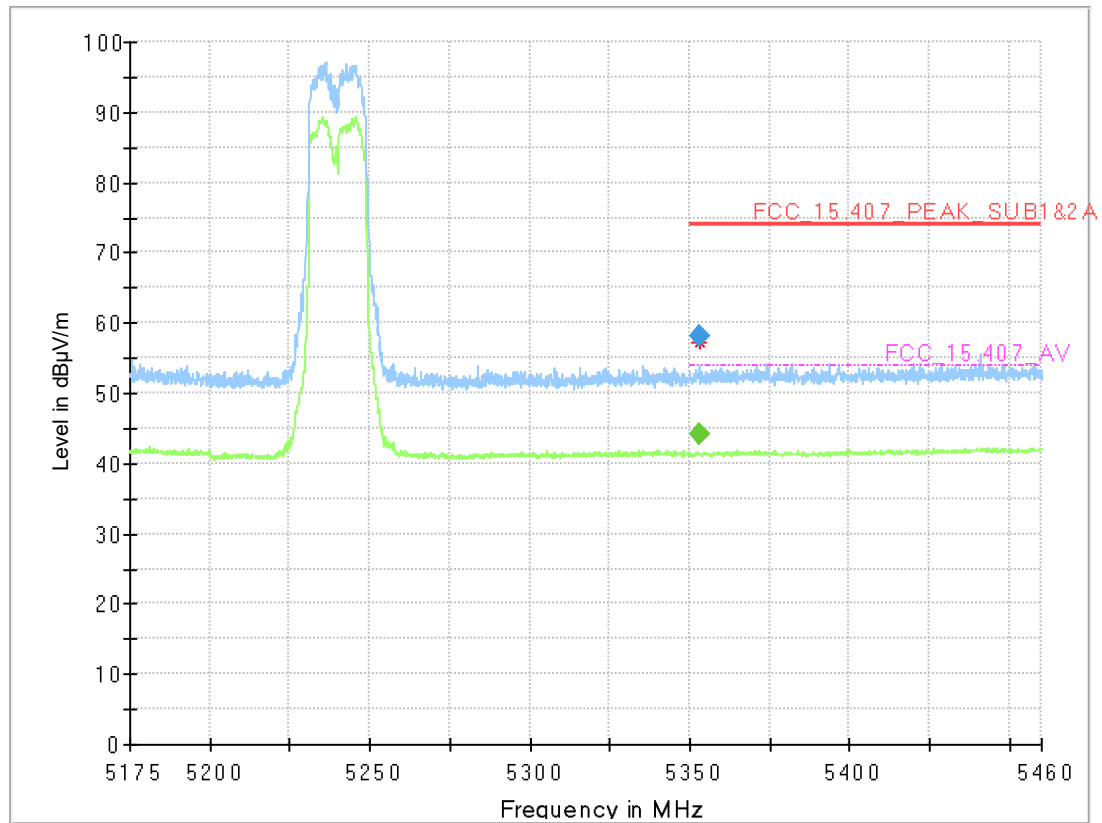
Radio Technology = WLAN a Diversity, Operating Frequency = high, Subband = U-NII-1
Band Edge = high
(S01_AA01#S3.5)



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)
5352.860	---	44.2	54.00	9.77	1000.0	1000.000	150.0	V	-124.0	85.0	15.2
5352.860	57.2	---	74.00	16.82	1000.0	1000.000	150.0	V	-124.0	85.0	15.2

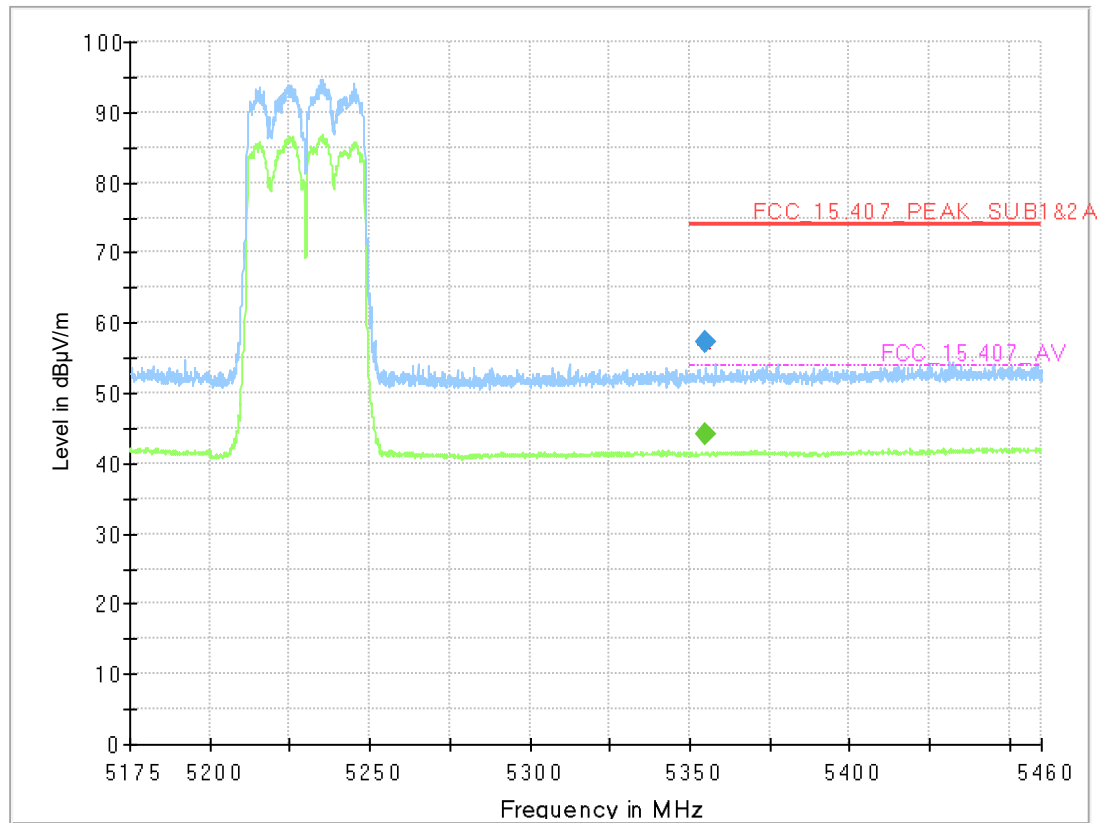
Radio Technology = WLAN n20 MIMO, Operating Frequency = high, Subband = U-NII-1
 Band Edge = high
 (S01_AA01#S3.5)



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)
5352.860	---	44.2	54.00	9.80	1000.0	1000.000	150.0	V	-128.0	94.0	15.2
5352.860	58.0	---	74.00	15.99	1000.0	1000.000	150.0	V	-128.0	94.0	15.2

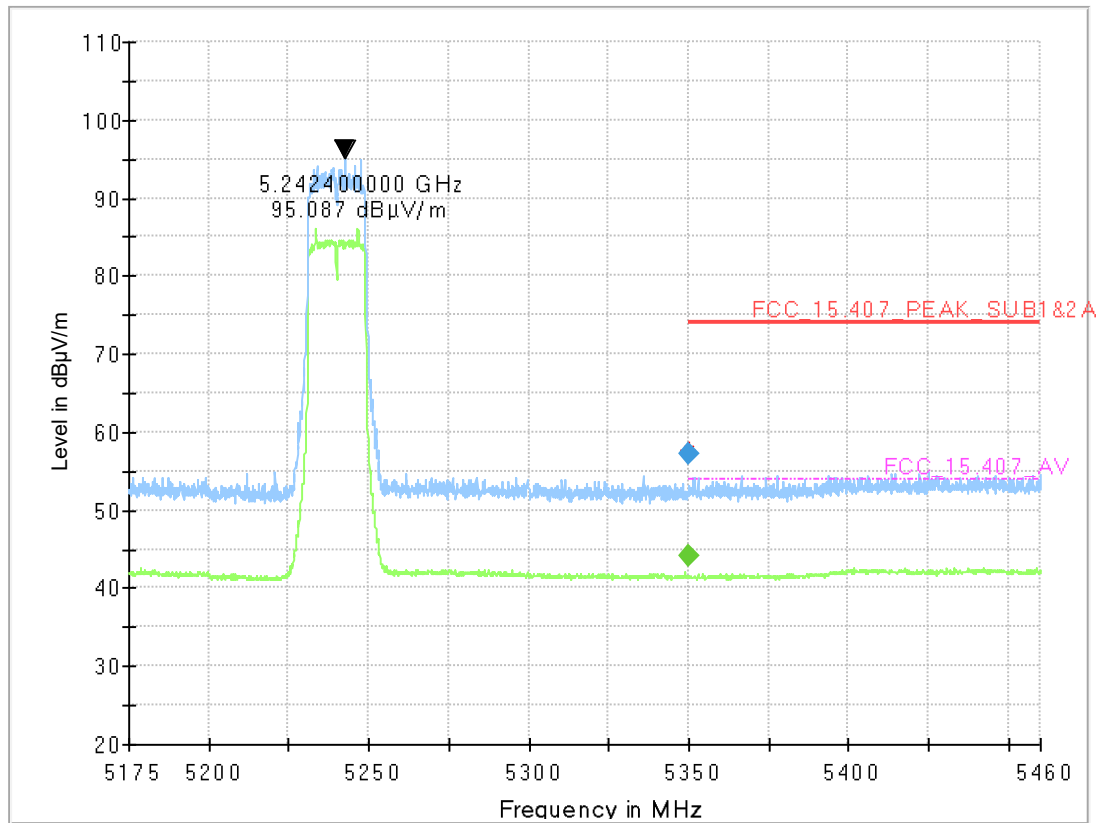
Radio Technology = WLAN n40 MIMO, Operating Frequency = high, Subband = U-NII-1
Band Edge = high
(S01_AA01#S3.5)



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)
5354.840	---	44.2	54.00	9.79	1000.0	1000.000	150.0	V	-46.0	-15.0	15.2
5354.840	57.2	---	74.00	16.85	1000.0	1000.000	150.0	V	-46.0	-15.0	15.2

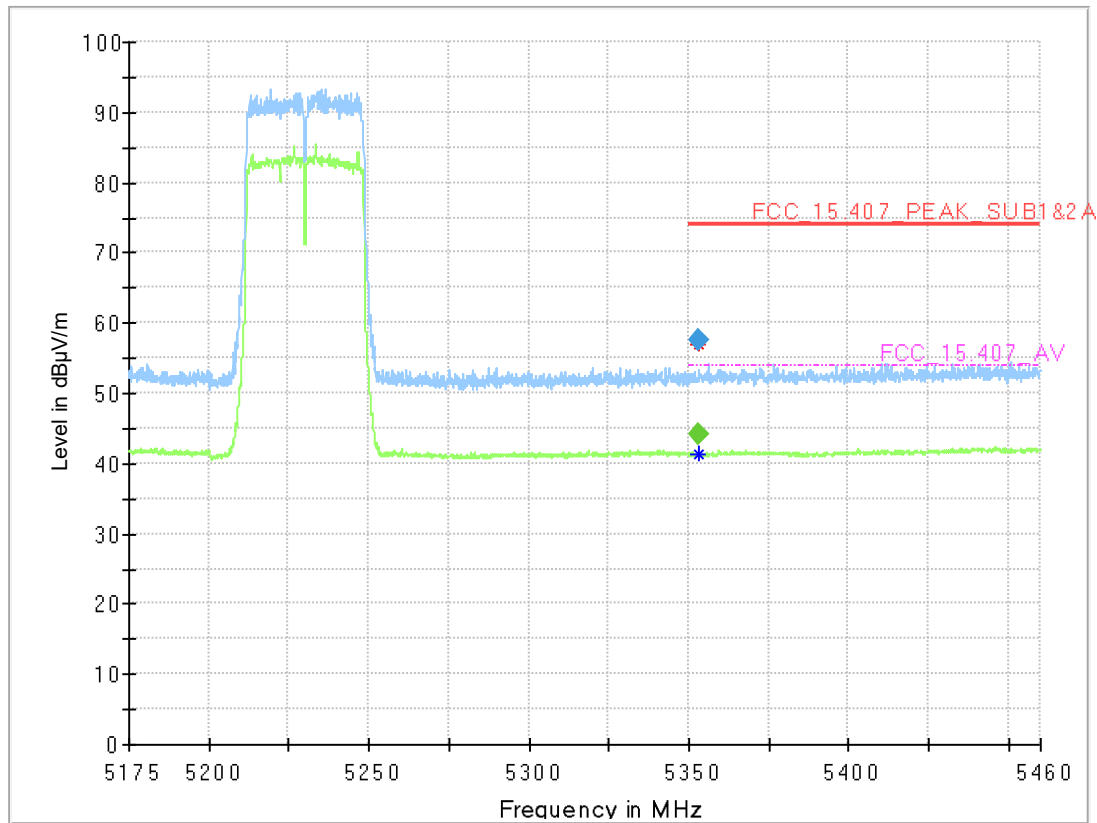
Radio Technology = WLAN ac20 MIMO, Operating Frequency = high, Subband = U-NII-1
Band Edge = high
(S01_AA01#S3.5)



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	---	44.2	54.00	9.76	1000.0	1000.000	150.0	H	-145.0	101.0	15.2
5350.000	57.2	---	74.00	16.80	1000.0	1000.000	150.0	H	-145.0	101.0	15.2

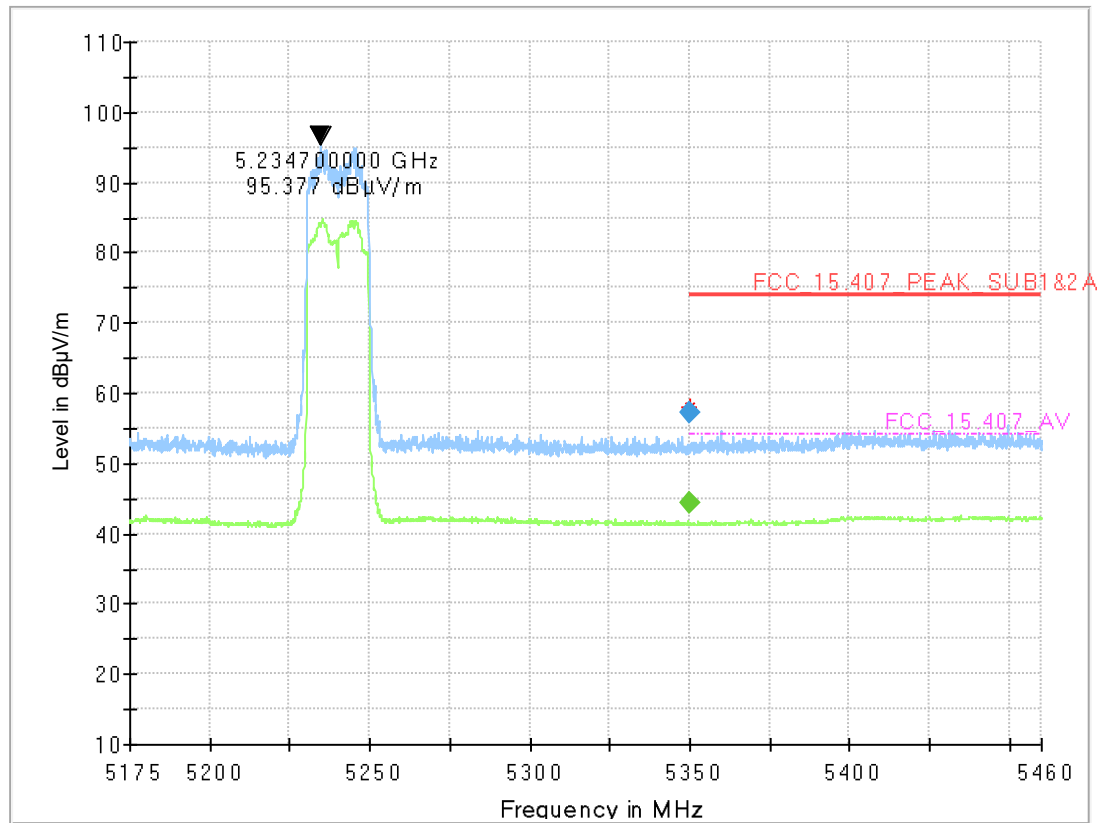
Radio Technology = WLAN ac40 MIMO, Operating Frequency = high, Subband = U-NII-1
Band Edge = high
(S01_AA01#S3.5)



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)
5353.300	---	44.2	54.00	9.81	1000.0	1000.000	150.0	H	-47.0	78.0	15.2
5353.300	57.6	---	74.00	16.40	1000.0	1000.000	150.0	H	-47.0	78.0	15.2

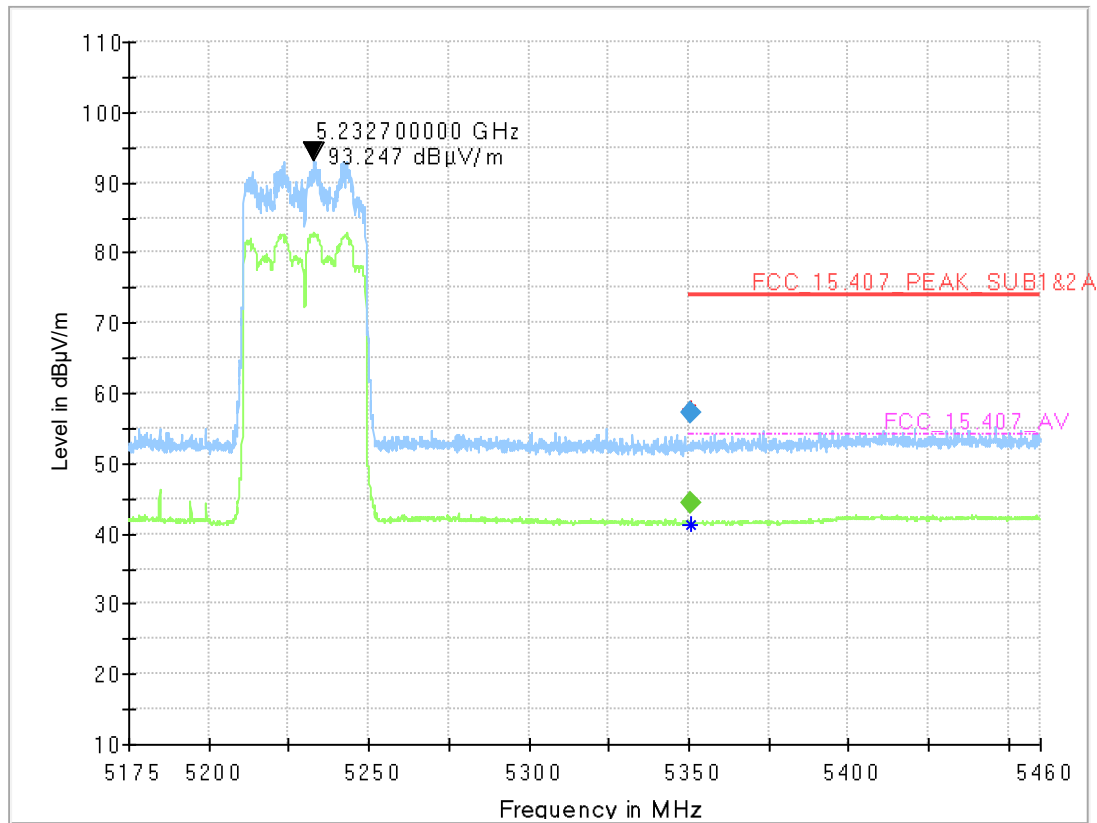
Radio Technology = WLAN ax20 MIMO(SU), Operating Frequency = high, Subband = U-NII-1
Band Edge = high
(S01_AA01#S3.5)



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	---	44.3	54.00	9.72	1000.0	1000.000	150.0	H	-98.0	7.0	15.2
5350.000	57.1	---	74.00	16.90	1000.0	1000.000	150.0	H	-98.0	7.0	15.2

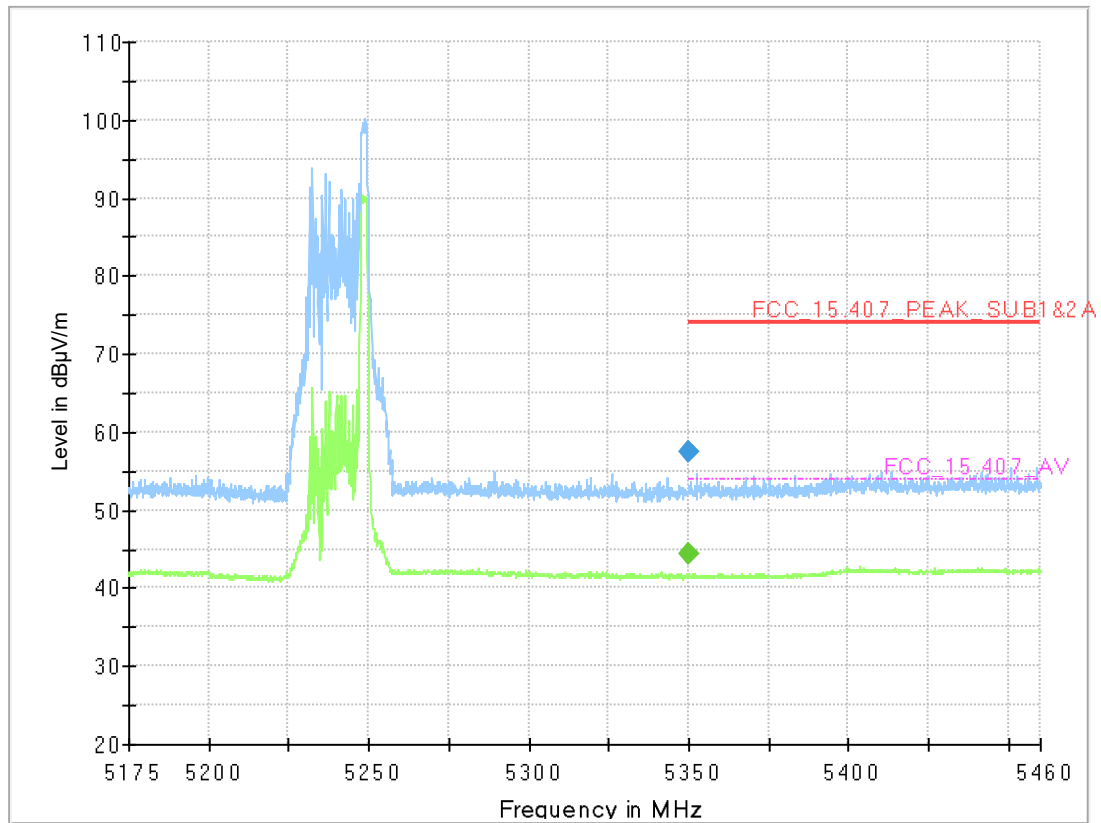
Radio Technology = WLAN ax40 MIMO(SU), Operating Frequency = high, Subband = U-NII-1
 Band Edge = high
 (S01_AA01#S3.5)



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)
5350.550	---	44.4	54.00	9.65	1000.0	1000.000	150.0	V	138.0	4.0	15.2
5350.550	57.2	---	74.00	16.76	1000.0	1000.000	150.0	V	138.0	4.0	15.2

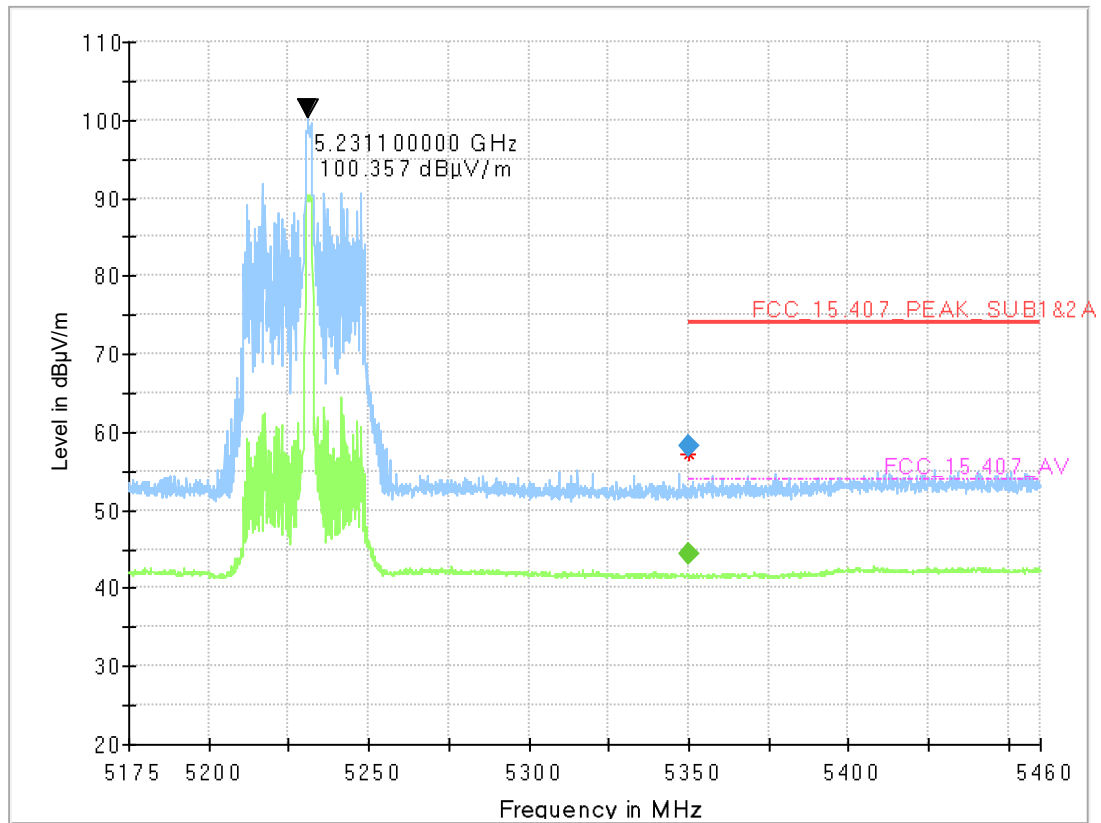
Radio Technology = WLAN ax20 MIMO(MU), Operating Frequency = high, Subband = U-NII-1
Band Edge = high
(S01_AA01#S3.5)



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)
5350.110	---	44.4	54.00	9.65	1000.0	1000.000	150.0	V	-131.0	78.0	15.2
5350.110	57.5	---	74.00	16.50	1000.0	1000.000	150.0	V	-131.0	78.0	15.2

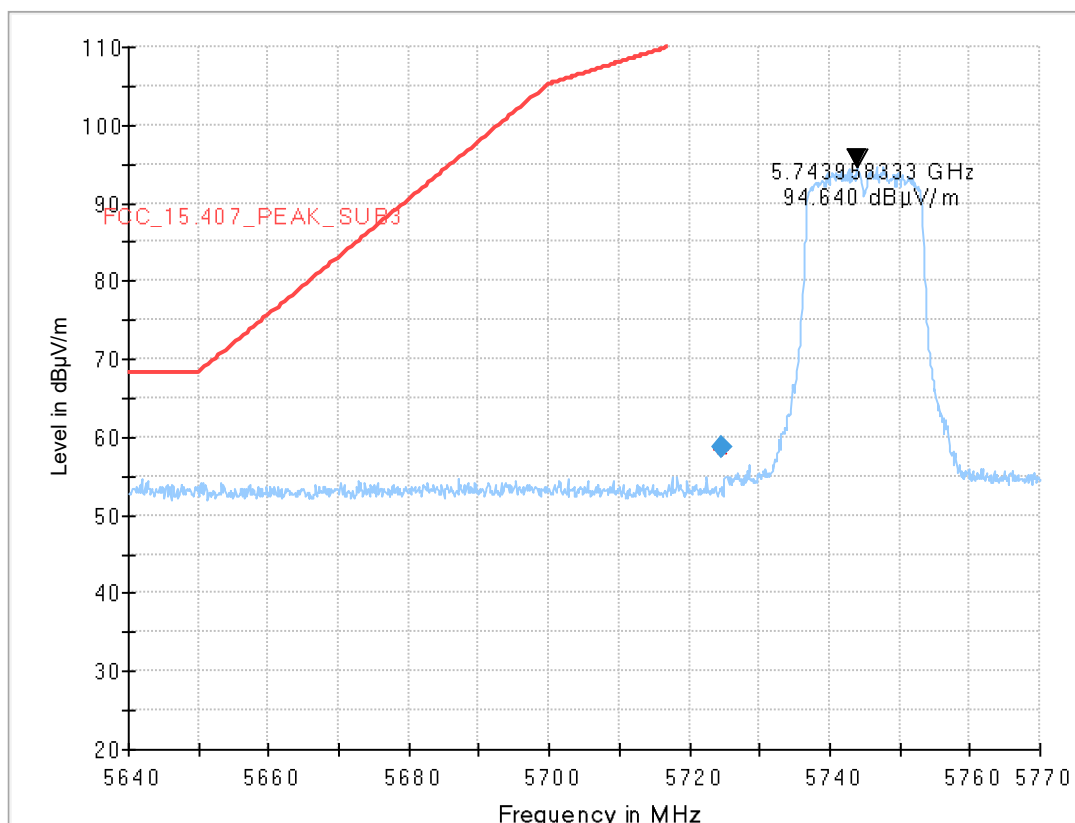
Radio Technology = WLAN ax40 MIMO(MU), Operating Frequency = high, Subband = U-NII-1
Band Edge = high
(S01_AA01#S3.5)



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)
5350.220	---	44.4	54.00	9.56	1000.0	1000.000	150.0	V	127.0	96.0	15.2
5350.220	58.3	---	74.00	15.74	1000.0	1000.000	150.0	V	127.0	96.0	15.2

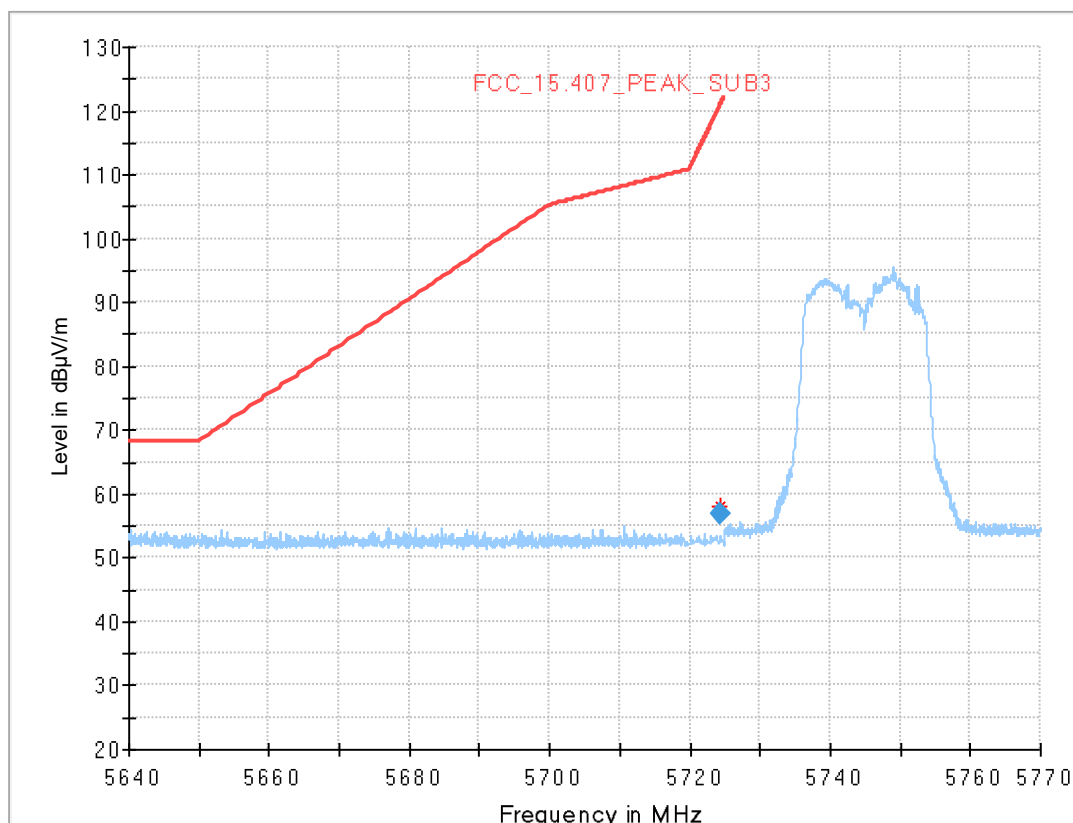
Radio Technology = WLAN a Diversity, Operating Frequency = low, Subband = U-NII-3
 Band Edge = low
 (S01_AA01#S3.5)



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)
5724.500	58.6	---	121.06	62.45	1000.0	1000.000	150.0	V	91.0	105.0	15.7

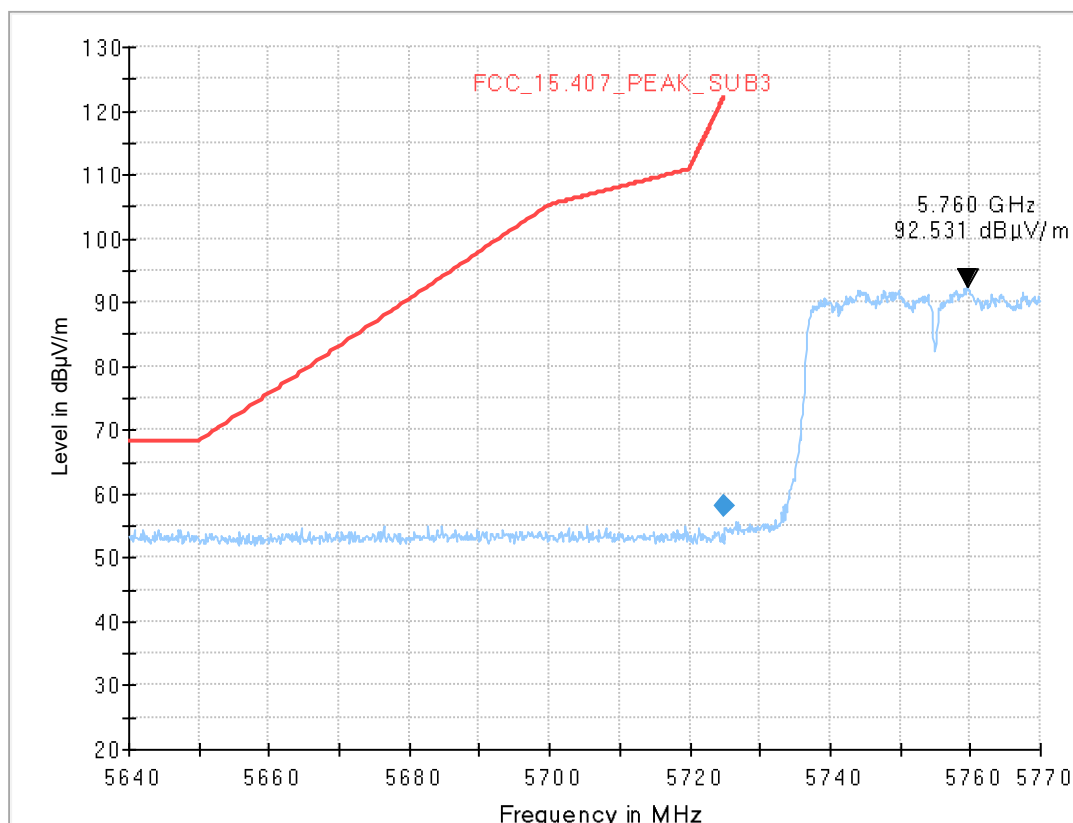
Radio Technology = WLAN n20 MIMO, Operating Frequency = low, Subband = U-NII-3
 Band Edge = low
 (S01_AA01#S3.5)



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)
5724.300	57.0	---	120.60	63.65	1000.0	1000.000	150.0	H	43.0	8.0	15.7

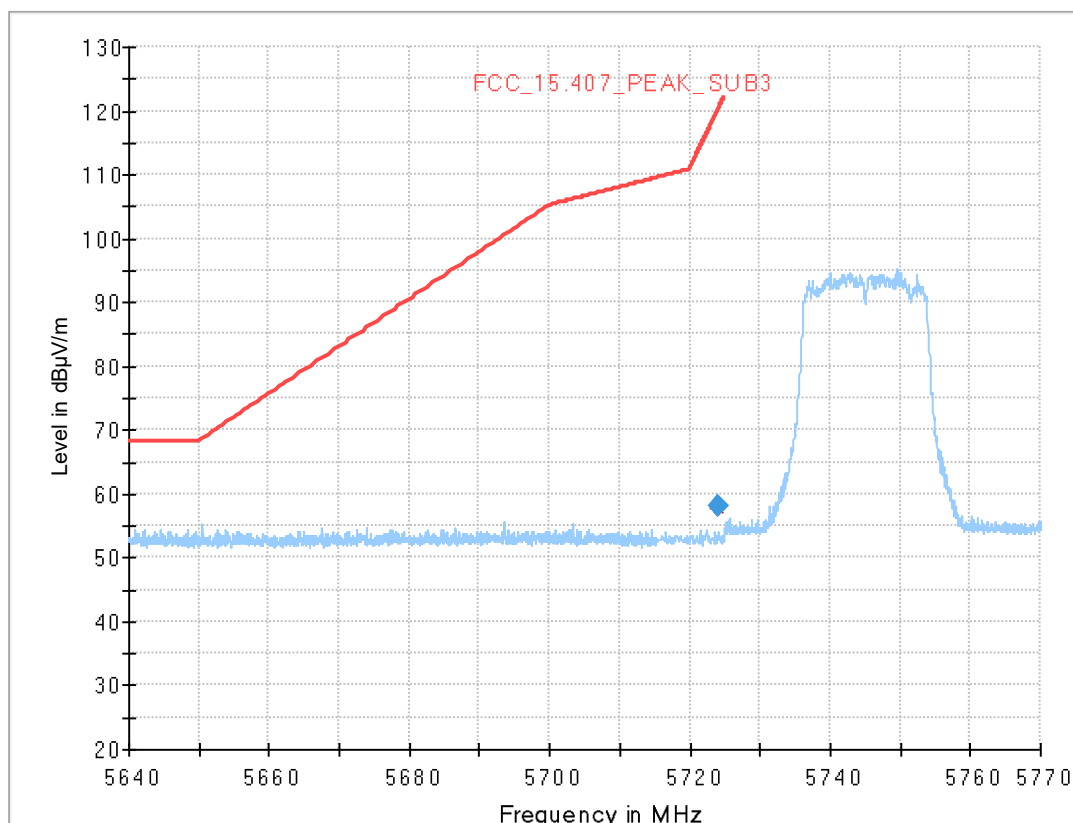
Radio Technology = WLAN n40 MIMO, Operating Frequency = low, Subband = U-NII-3
 Band Edge = low
 (S01_AA01#S3.5)



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	58.0	---	122.20	64.2	1000.0	1000.000	150.0	V	-181.0	-8.0	15.7

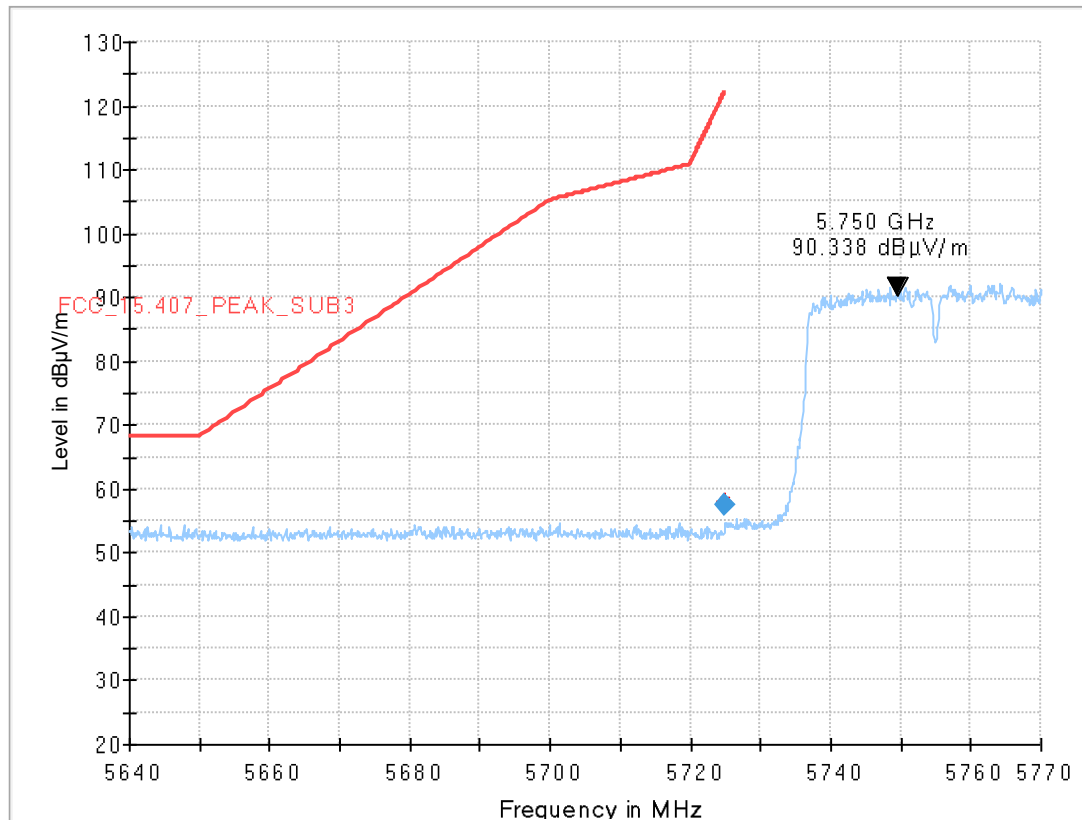
Radio Technology = WLAN ac20 MIMO, Operating Frequency = low, Subband = U-NII-3
 Band Edge = low
 (S01_AA01#S3.5)



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)
5724.100	58.2	---	120.15	61.97	1000.0	1000.000	150.0	V	-178.0	-11.0	15.7

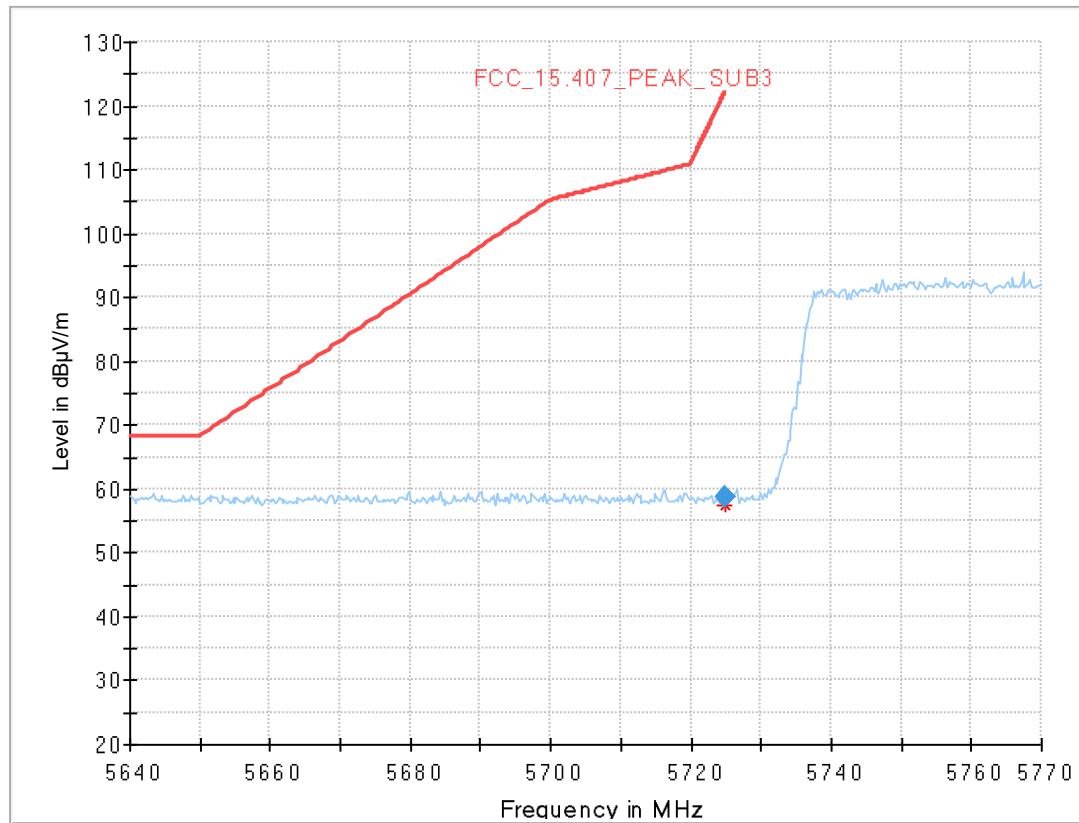
Radio Technology = WLAN ac40 MIMO, Operating Frequency = low, Subband = U-NII-3
Band Edge = low
(S01_AA01#S3.5)



Final Result

Frequency (MHz)	MaxPeak (dB μ V/m)	CAverage (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5724.900	57.4	---	121.97	64.58	1000.0	1000.000	150.0	H	-124.0	15.0	15.7

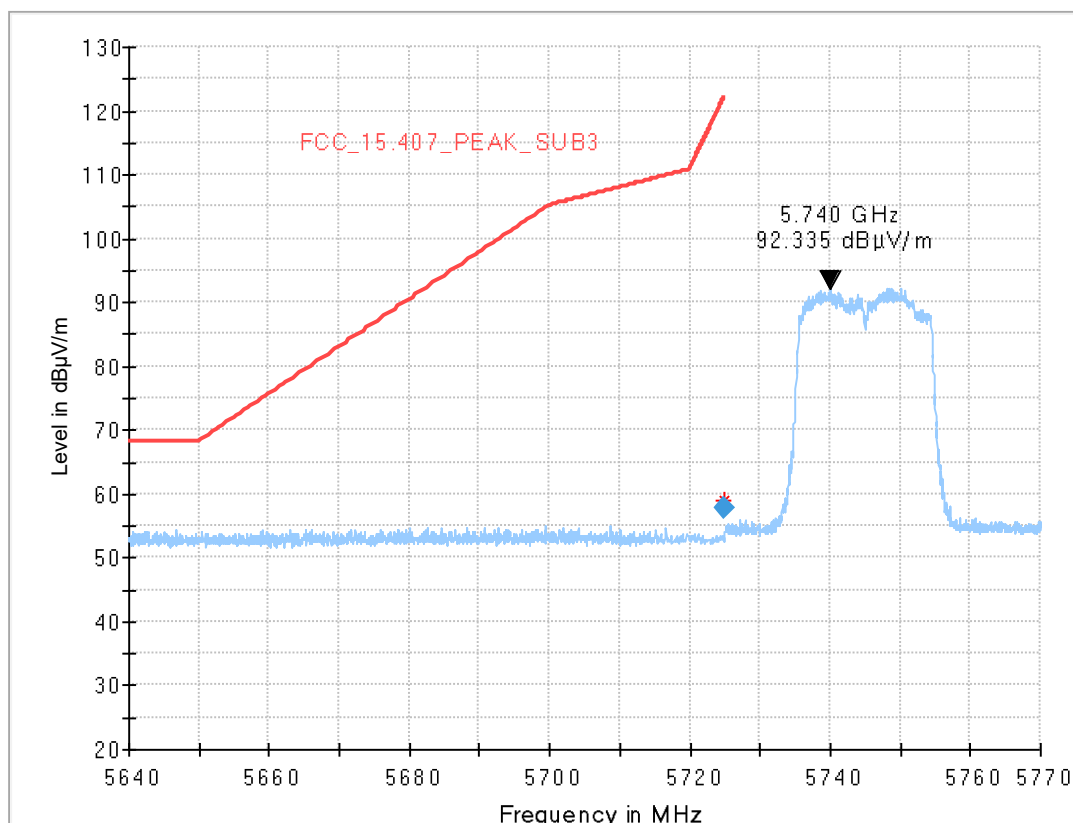
Radio Technology = WLAN ac80 MIMO, Operating Frequency = low, Subband = U-NII-3
Band Edge = low
(S01_AA01#S3.5)



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)
5724.825	58.8	---	121.80	63.05	1000.0	1000.000	150.0	H	-128.0	-15.0	15.7

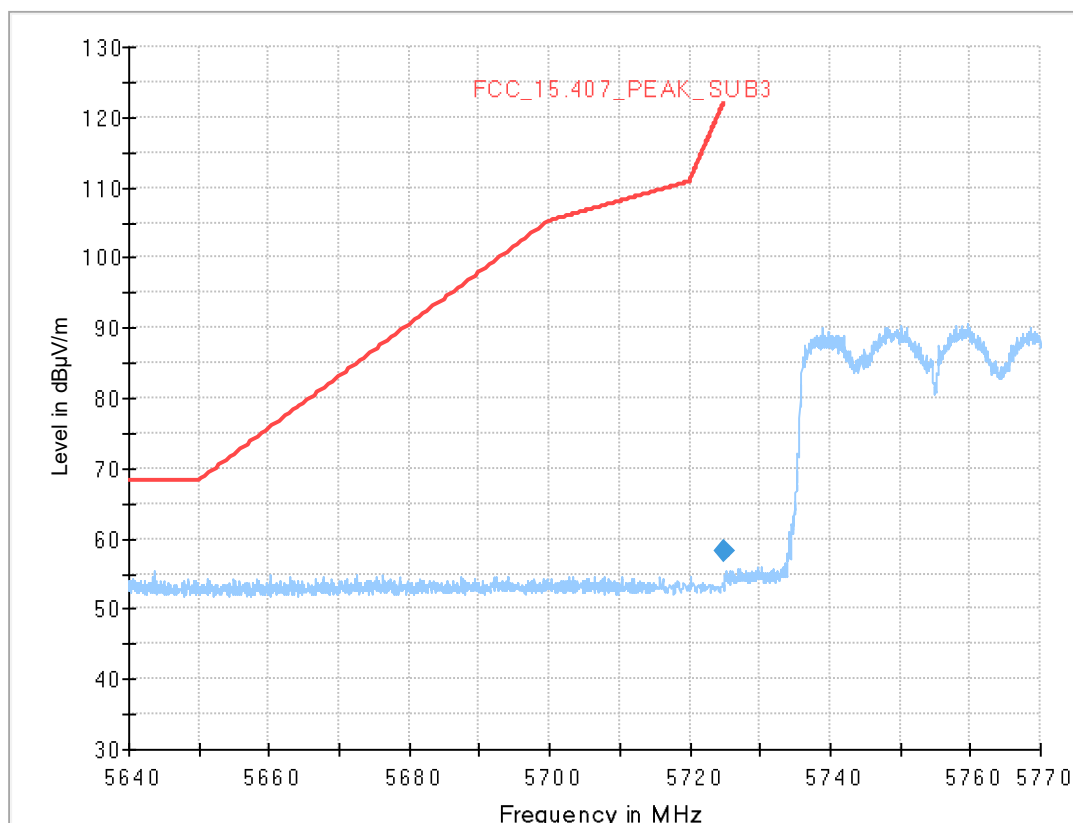
Radio Technology = WLAN ax20 MIMO(SU), Operating Frequency = low, Subband = U-NII-3
 Band Edge = low
 (S01_AA01#S3.5)



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)
5724.800	57.8	---	121.74	63.97	1000.0	1000.000	150.0	V	-52.0	86.0	15.7

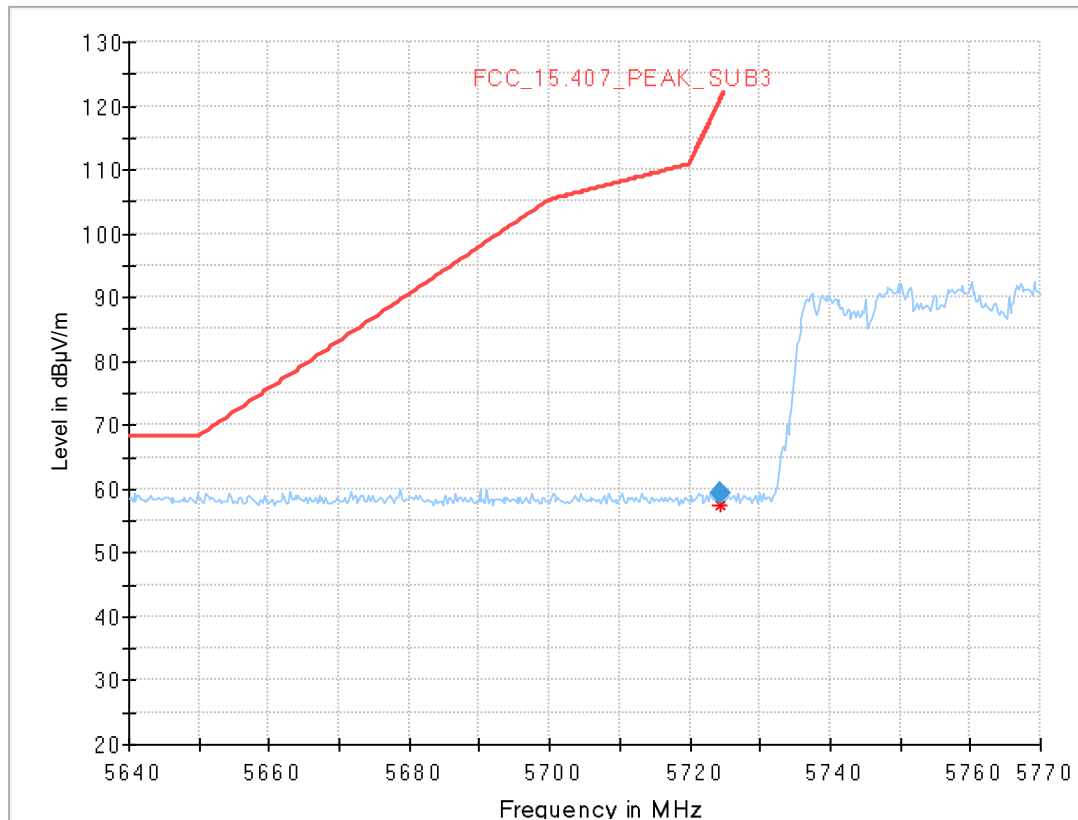
Radio Technology = WLAN ax40 MIMO(SU), Operating Frequency = low, Subband = U-NII-3
Band Edge = low
(S01_AA01#S3.5)



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	58.1	---	122.20	64.12	1000.0	1000.000	150.0	V	-90.0	105.0	15.7

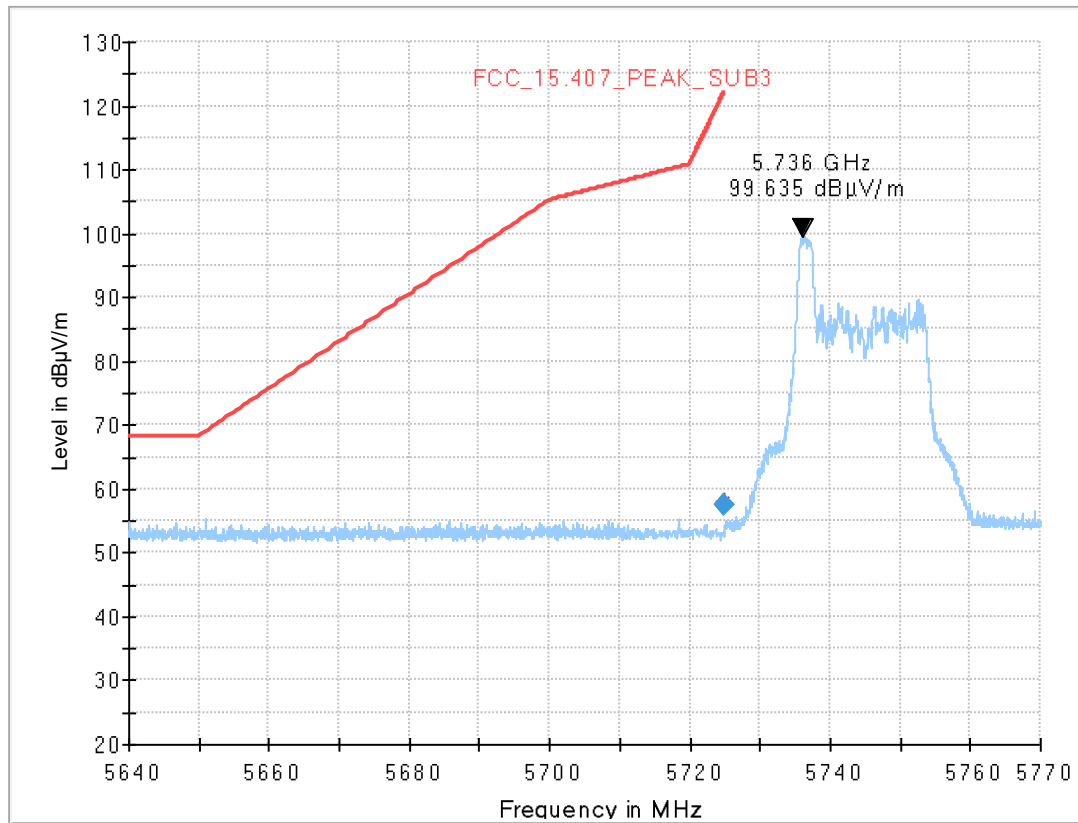
Radio Technology = WLAN ax80 MIMO(SU), Operating Frequency = low, Subband = U-NII-3
Band Edge = low
(S01_AA01#S3.5)



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)
5724.342	59.2	---	120.70	61.52	1000.0	1000.000	150.0	V	2.0	100.0	15.7

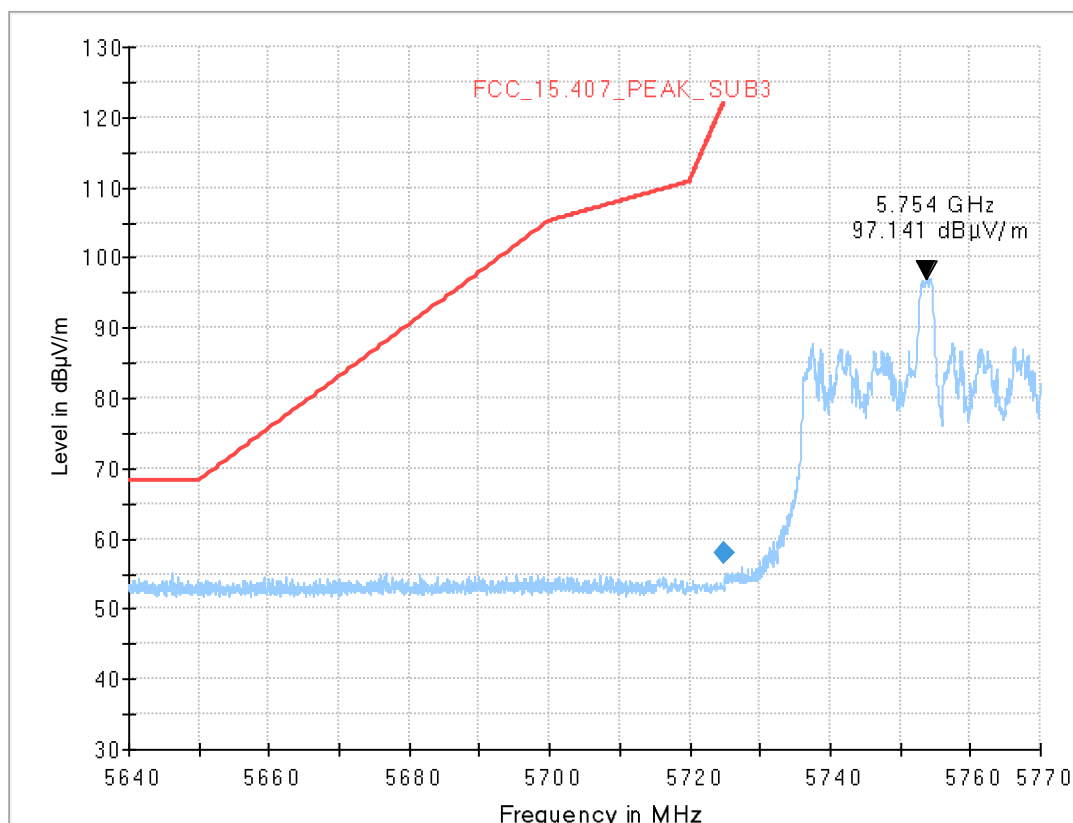
Radio Technology = WLAN ax20 MIMO(MU), Operating Frequency = low, Subband = U-NII-3
Band Edge = low
(S01_AA01#S3.5)



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)
5724.800	57.5	---	121.74	64.20	1000.0	1000.000	150.0	H	137.0	105.0	15.7

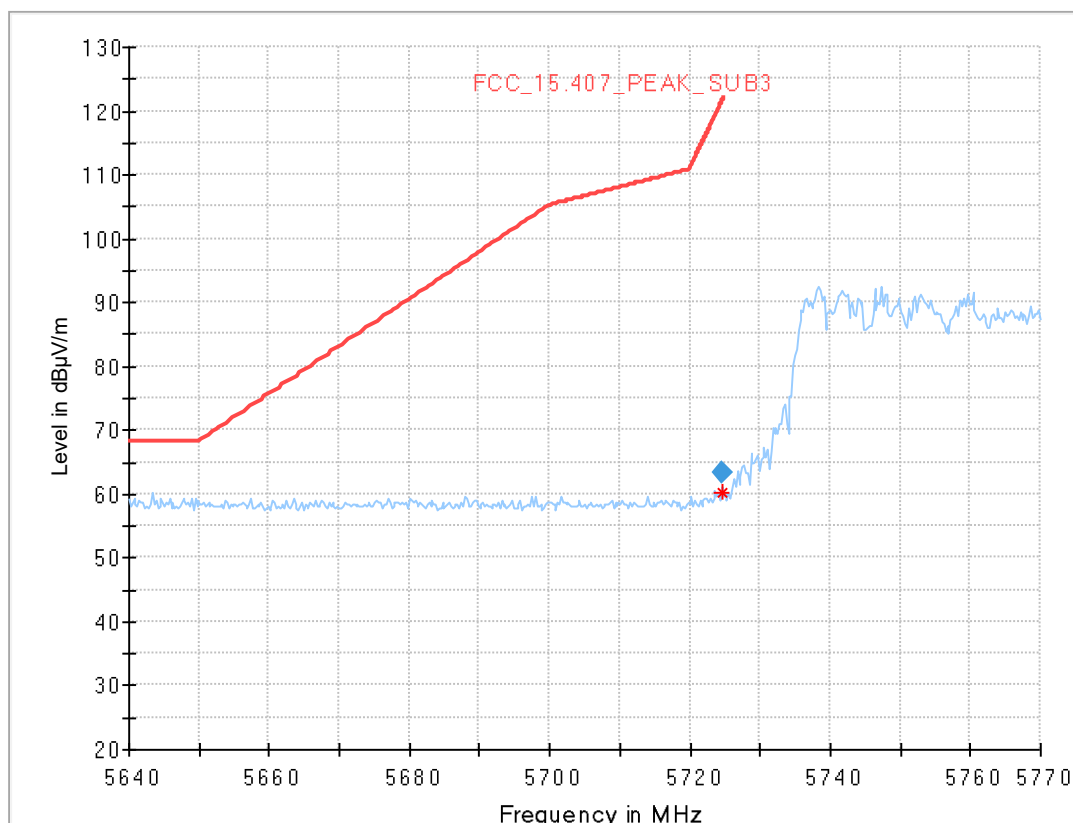
Radio Technology = WLAN ax40 MIMO(MU), Operating Frequency = low, Subband = U-NII-3
Band Edge = low
(S01_AA01#S3.5)



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	58.0	---	122.20	64.24	1000.0	1000.000	150.0	H	-79.0	94.0	15.7

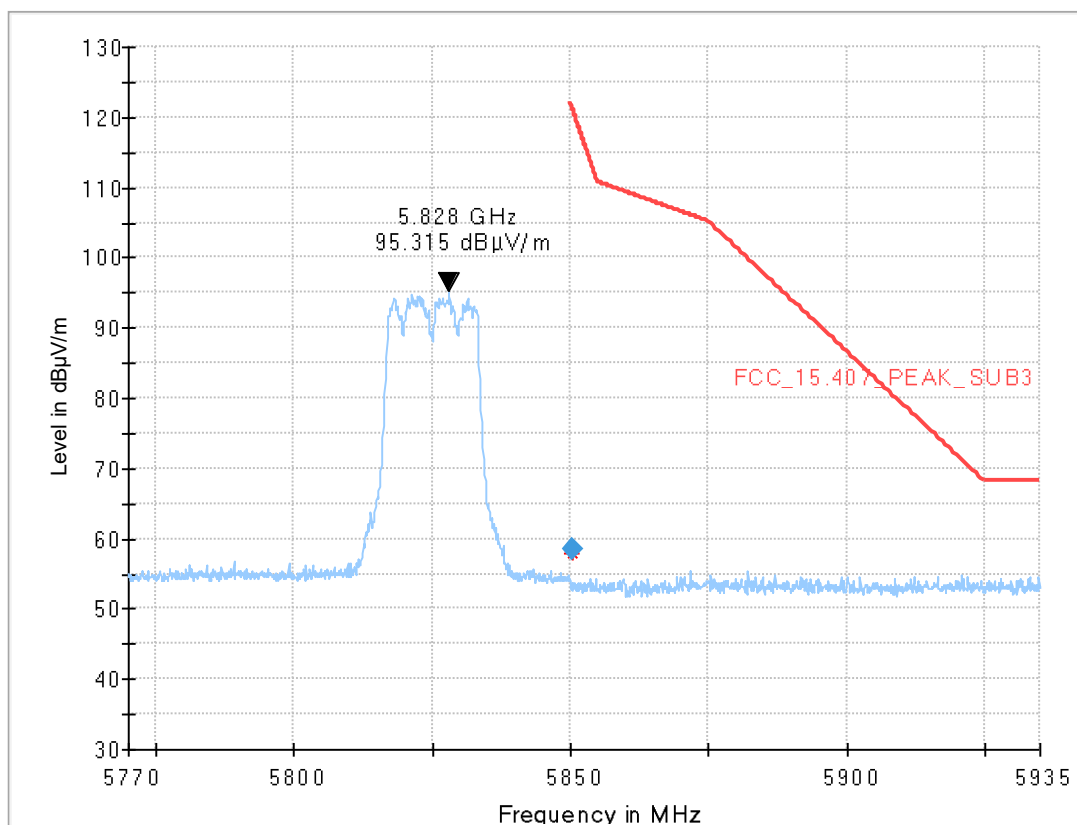
Radio Technology = WLAN ax80 MIMO(MU), Operating Frequency = low, Subband = U-NII-3
 Band Edge = low
 (S01_AA01#S3.5)



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)
5724.583	63.4	---	121.25	57.88	1000.0	1000.000	150.0	H	-46.0	-8.0	15.7

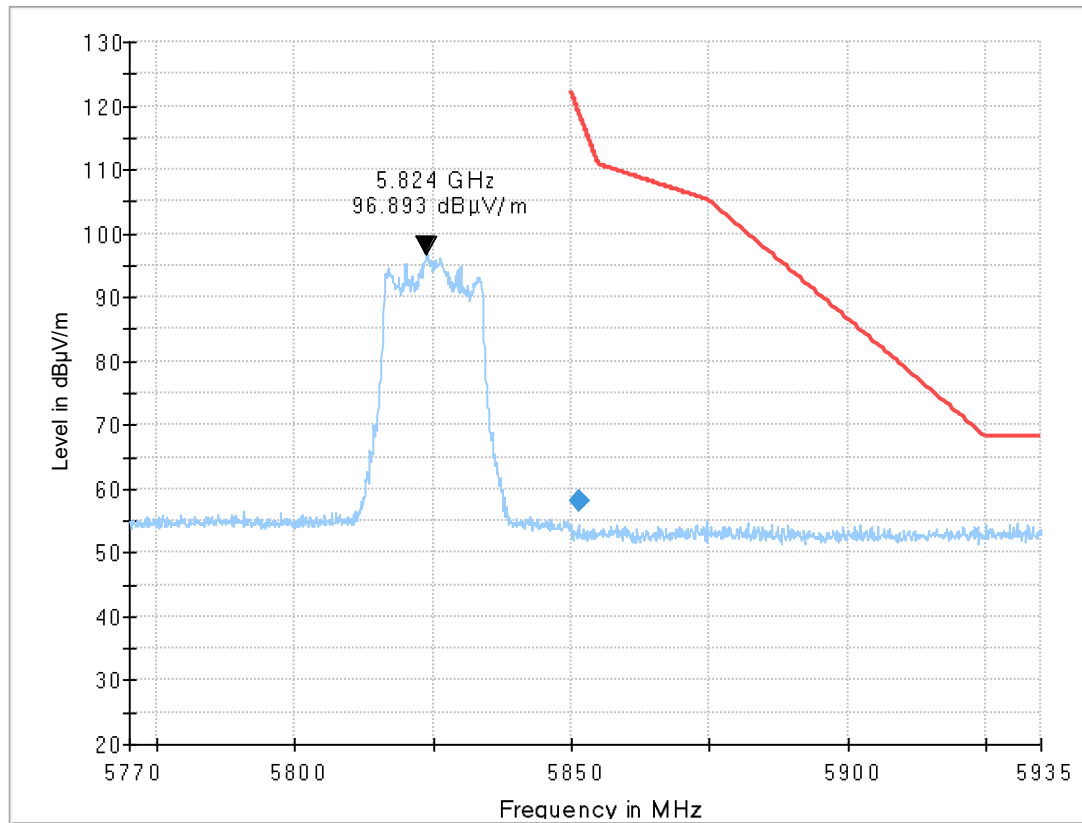
Radio Technology = WLAN a Diversity, Operating Frequency = high, Subband = U-NII-3
 Band Edge = high
 (S01_AA01#S3.5)



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	58.5	---	121.52	63.04	1000.0	1000.000	150.0	V	-41.0	94.0	15.8

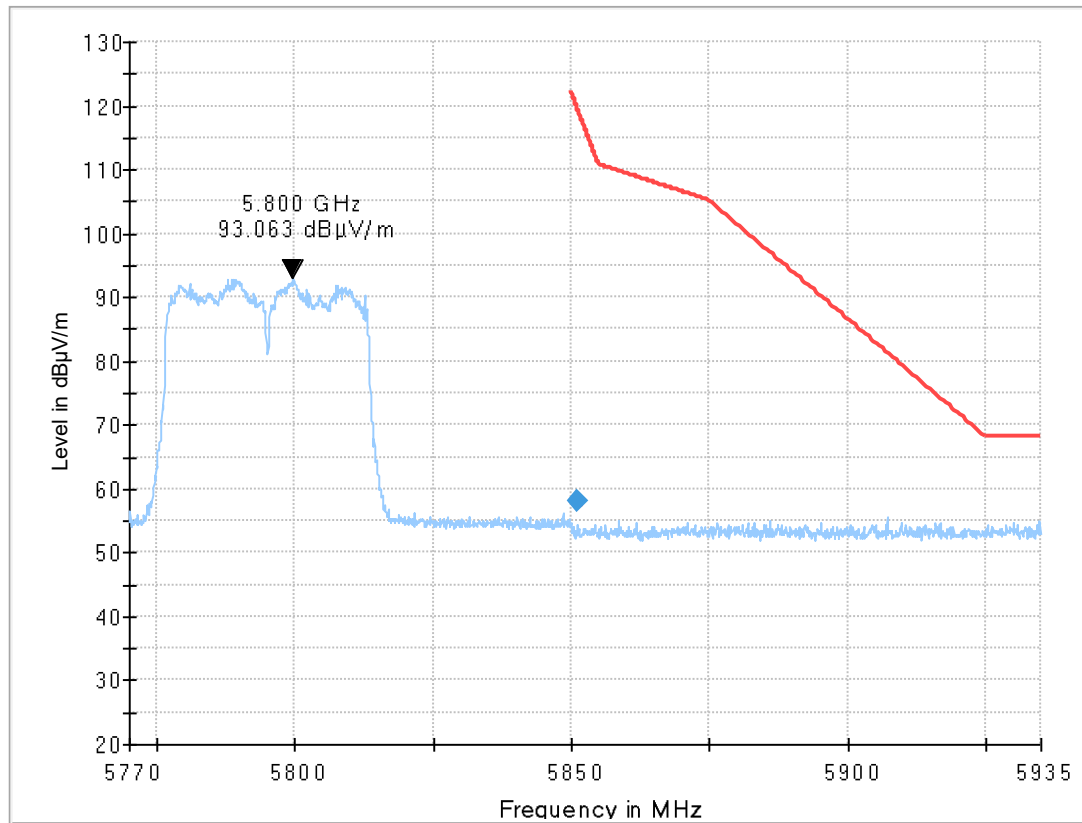
Radio Technology = WLAN n20 MIMO, Operating Frequency = high, Subband = U-NII-3
Band Edge = high
(S01_AA01#S3.5)



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)
5851.300	58.0	---	119.24	61.24	1000.0	1000.000	150.0	H	-9.0	105.0	15.8

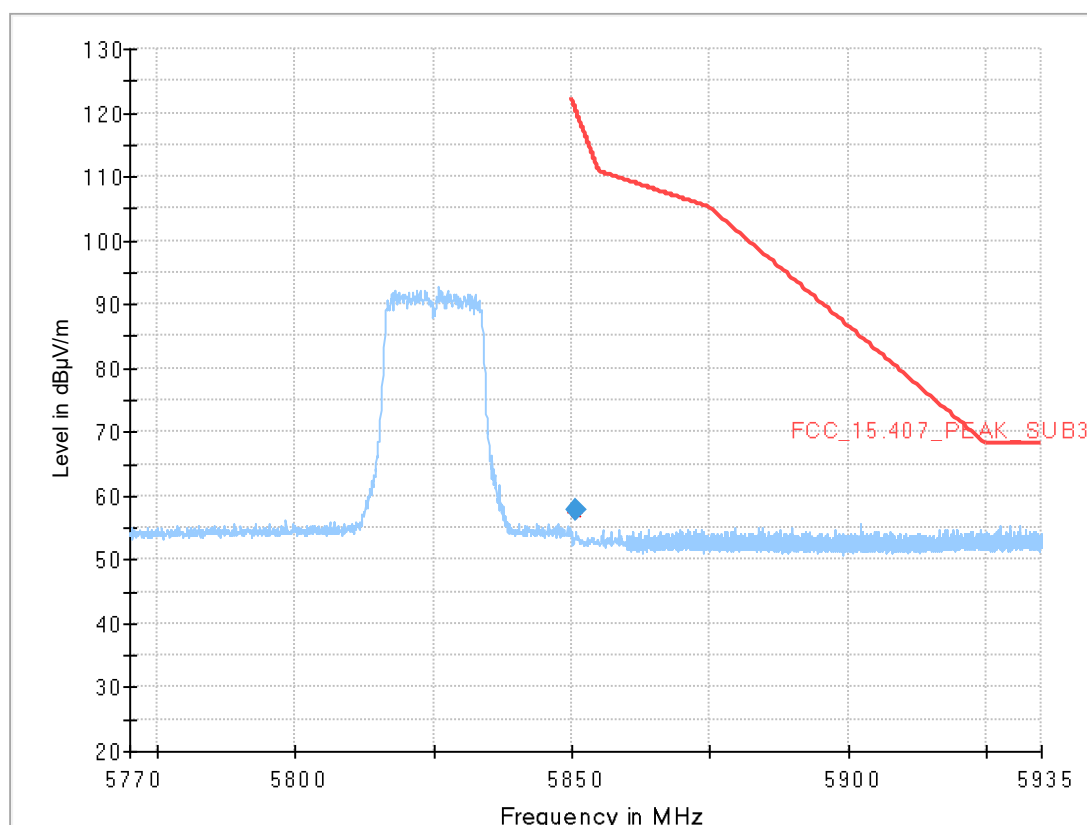
Radio Technology = WLAN n40 MIMO, Operating Frequency = high, Subband = U-NII-3
Band Edge = high
(S01_AA01#S3.5)



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)
5851.100	58.2	---	119.69	61.46	1000.0	1000.000	150.0	V	-56.0	99.0	15.8

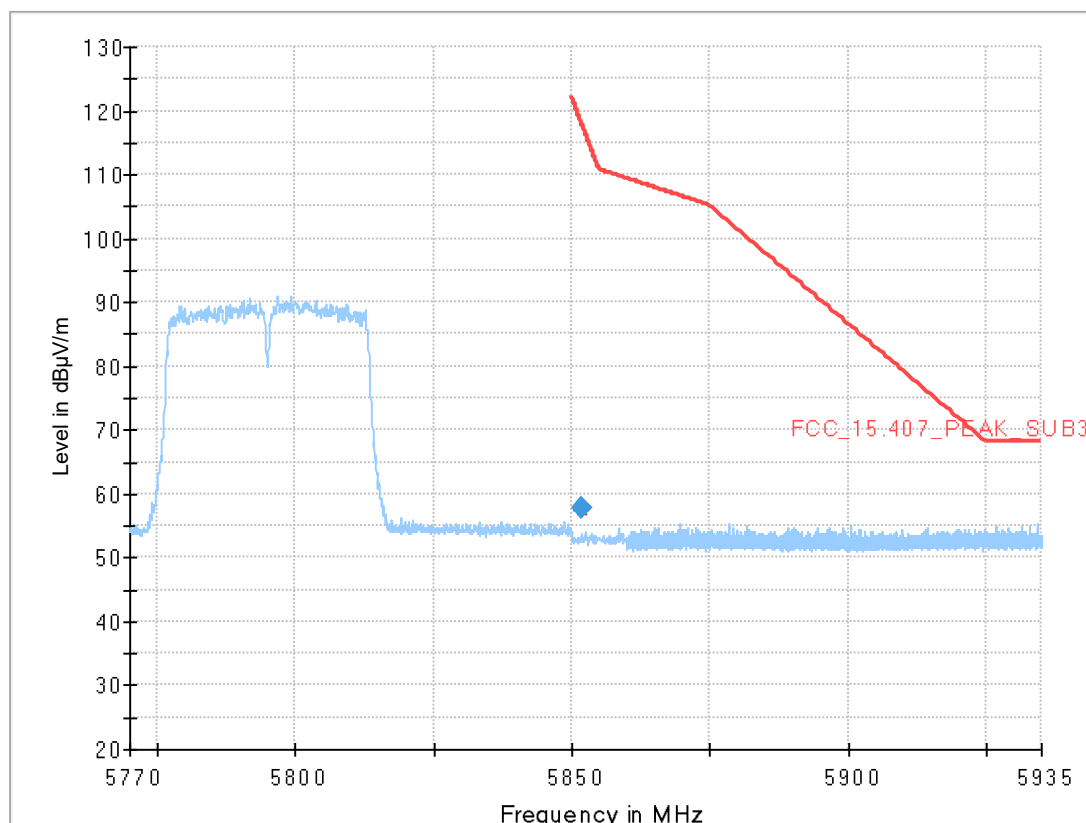
Radio Technology = WLAN ac20 MIMO, Operating Frequency = high, Subband = U-NII-3
 Band Edge = high
 (S01_AA01#S3.5)



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	57.9	---	120.60	62.71	1000.0	1000.000	150.0	V	-84.0	15.0	15.8

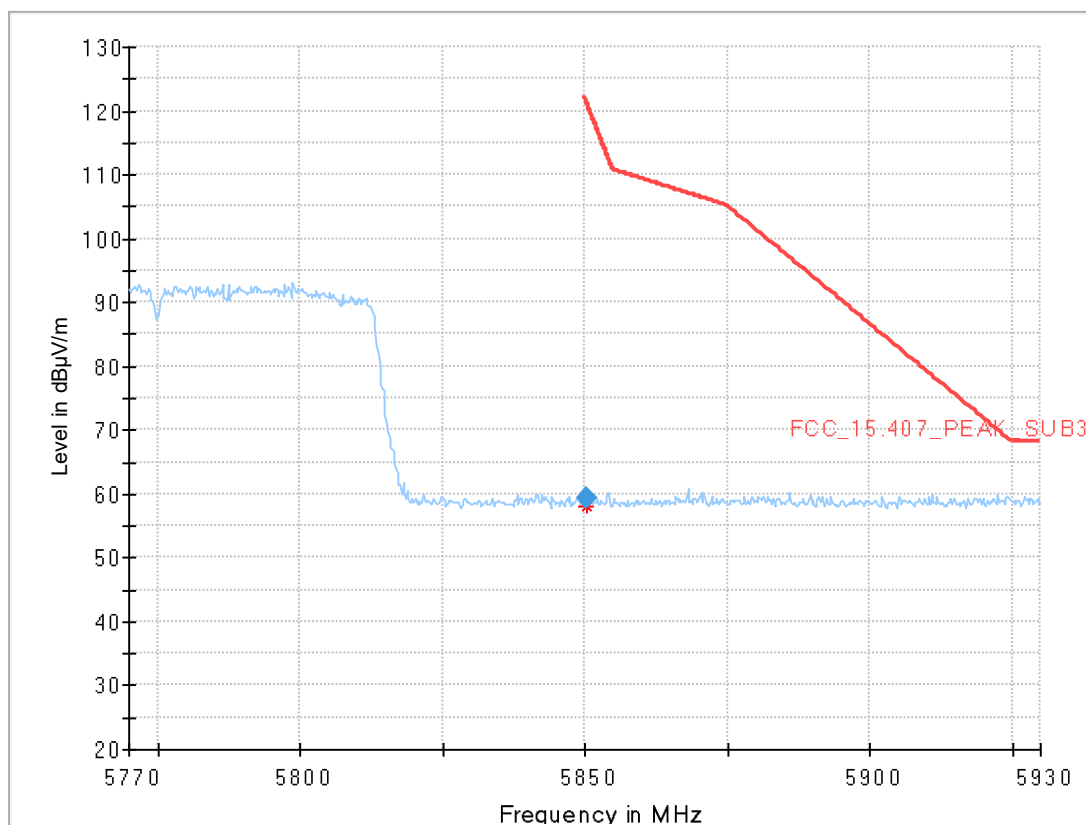
Radio Technology = WLAN ac40 MIMO, Operating Frequency = high, Subband = U-NII-3
 Band Edge = high
 (S01_AA01#S3.5)



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)
5851.700	57.7	---	118.32	60.62	1000.0	1000.000	150.0	V	45.0	94.0	15.8

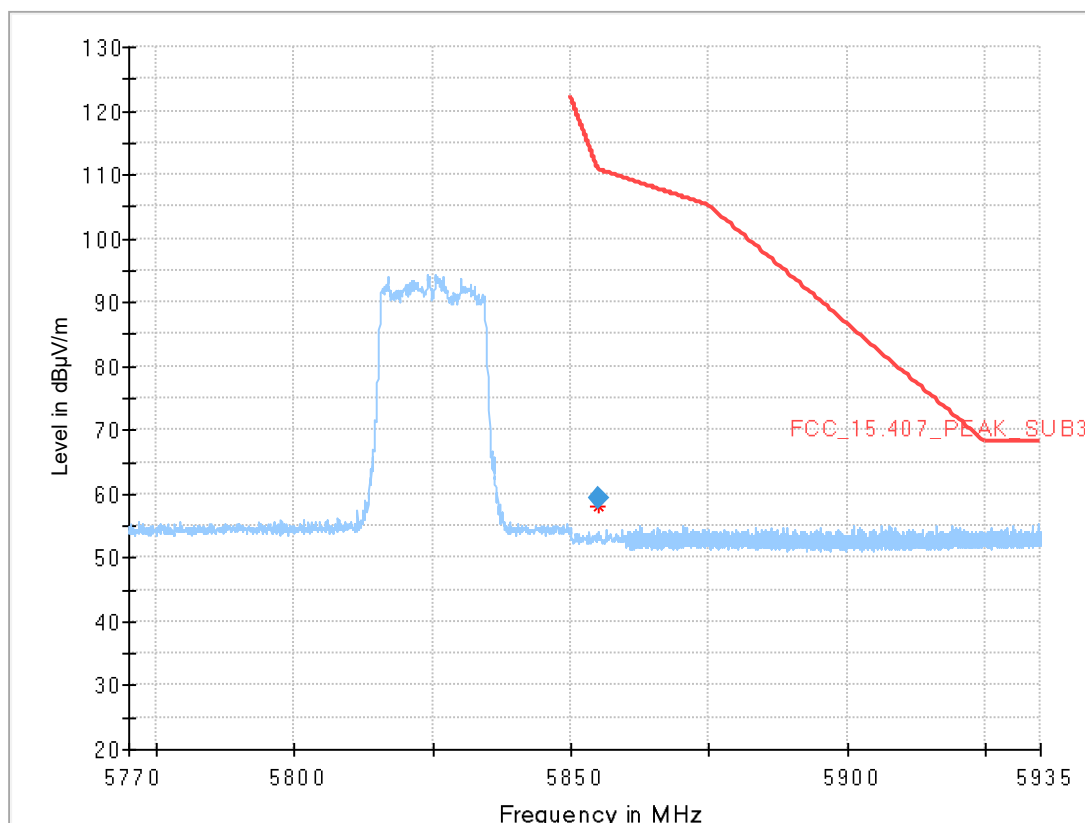
Radio Technology = WLAN ac80 MIMO, Operating Frequency = low, Subband = U-NII-3
 Band Edge = high
 (S01_AA01#S3.5)



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)
5850.250	59.3	---	121.63	62.37	1000.0	1000.000	150.0	V	-79.0	105.0	15.8

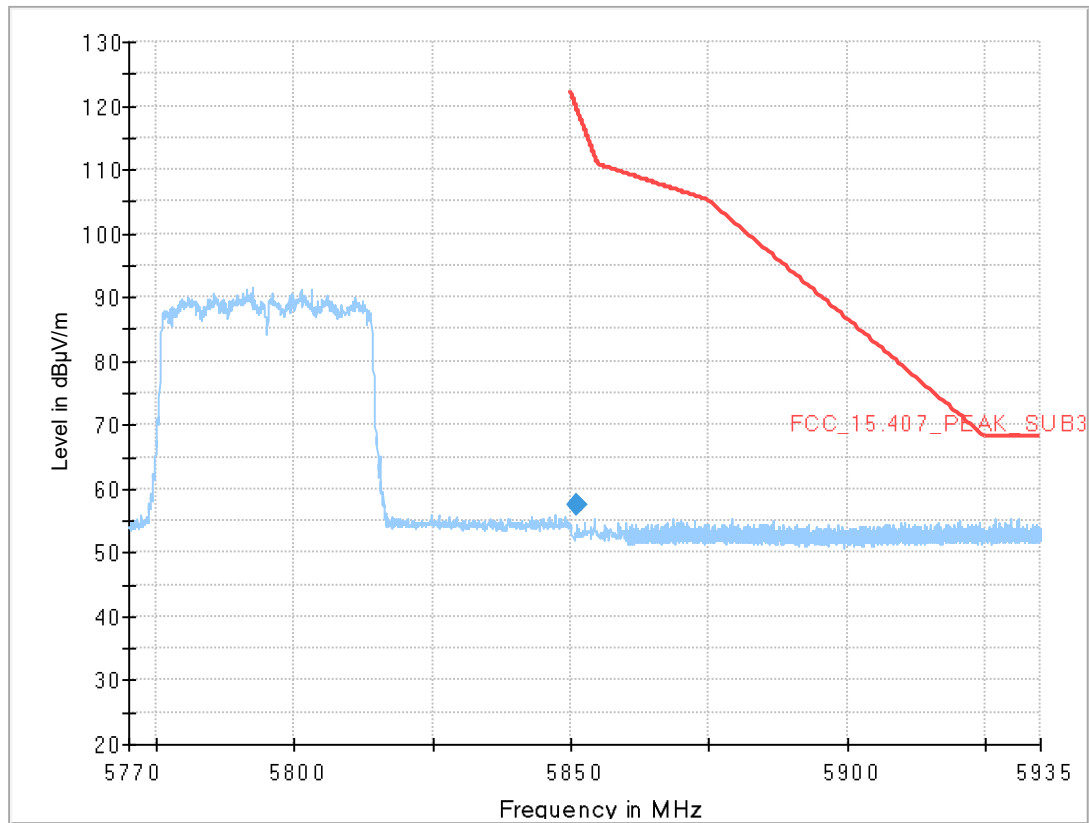
Radio Technology = WLAN ax20 MIMO(SU), Operating Frequency = high, Subband = U-NII-3
 Band Edge = high
 (S01_AA01#S3.5)



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)
5855.000	59.2	---	110.80	51.65	1000.0	1000.000	150.0	H	11.0	15.0	15.9

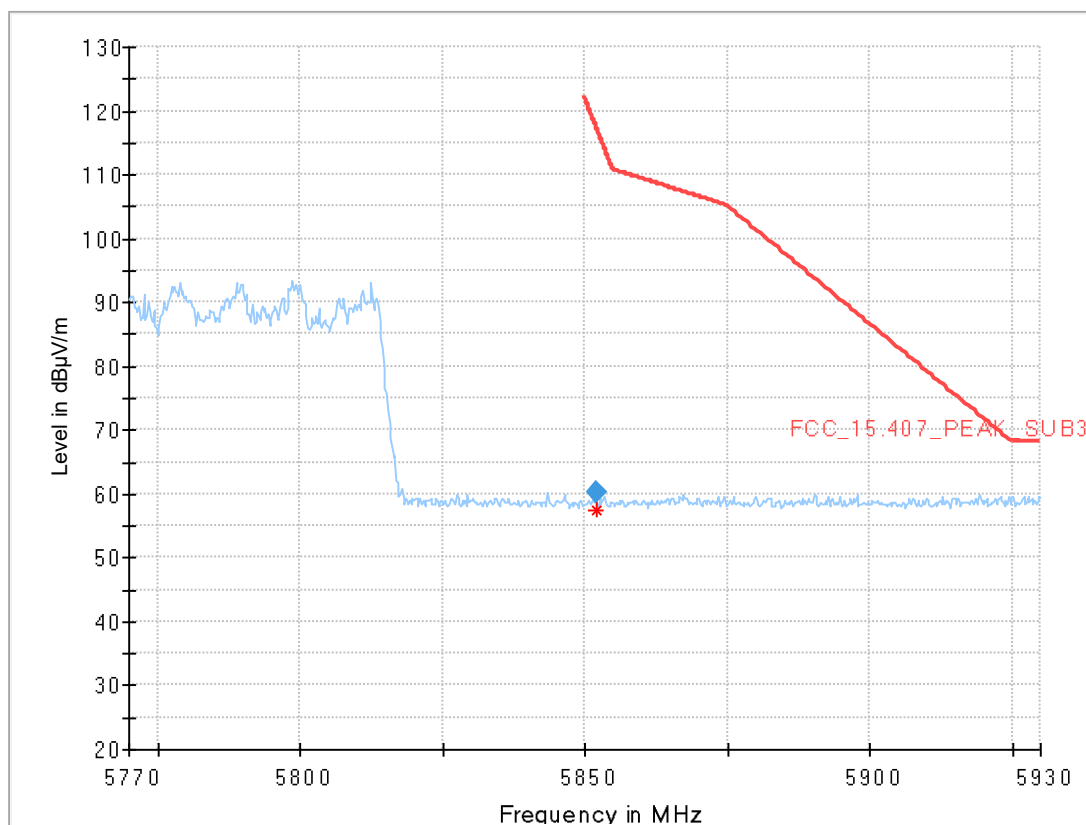
Radio Technology = WLAN ax40 MIMO(SU), Operating Frequency = high, Subband = U-NII-3
 Band Edge = high
 (S01_AA01#S3.5)



Final_Result

Frequency (MHz)	MaxPeak (dB μ V/m)	CAverage (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5851.000	57.4	---	119.92	62.48	1000.0	1000.000	150.0	H	-90.0	105.0	15.8

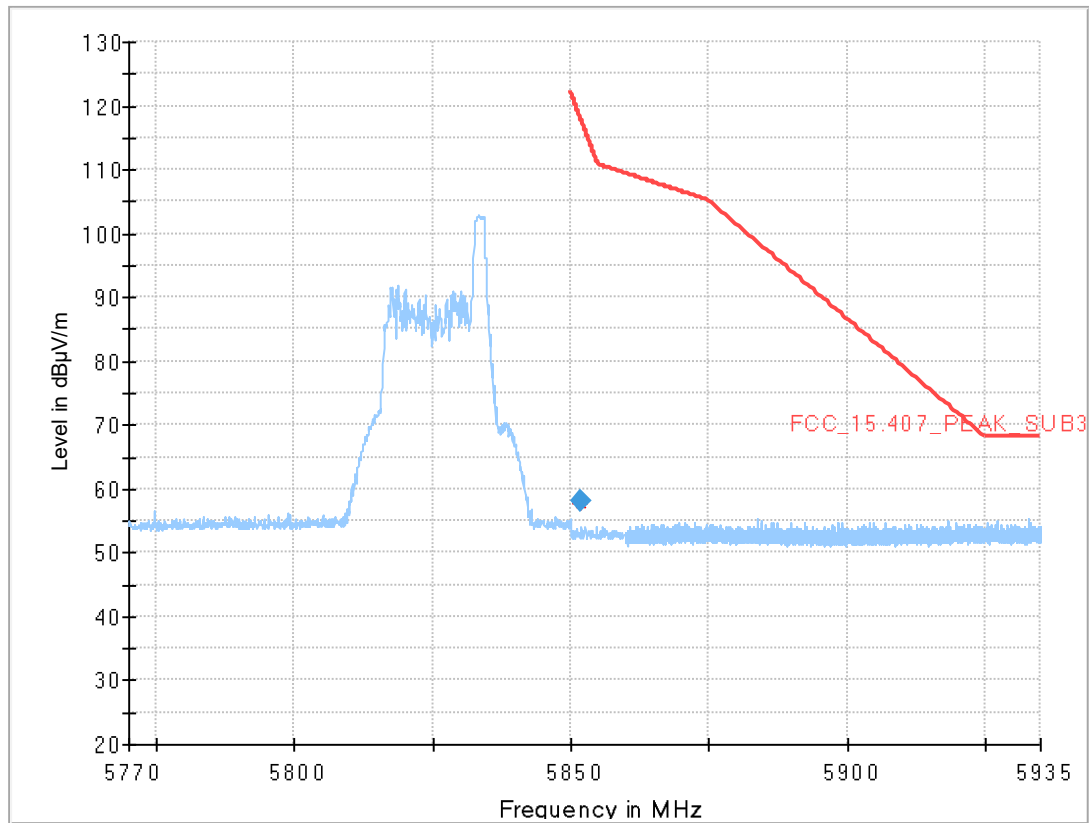
Radio Technology = WLAN ax80 MIMO(SU), Operating Frequency = low, Subband = U-NII-3
 Band Edge = high
 (S01_AA01#S3.5)



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)
5851.942	60.2	---	117.77	57.57	1000.0	1000.000	150.0	H	-83.0	105.0	15.8

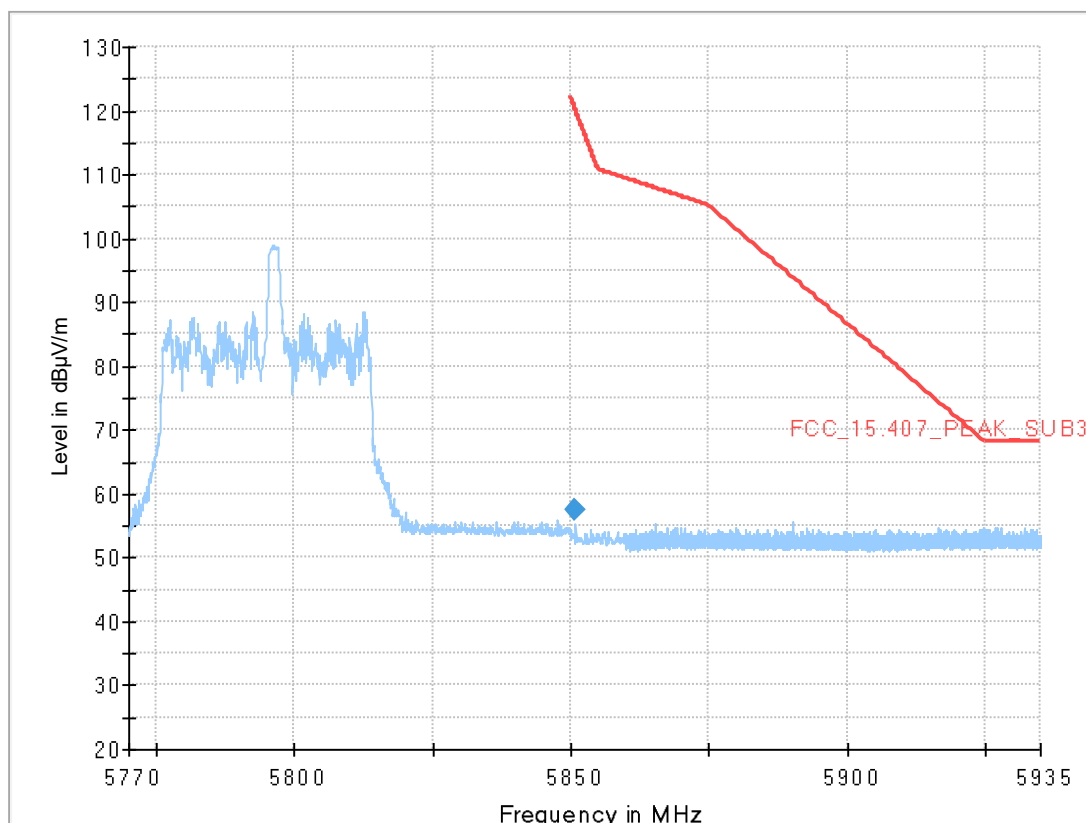
Radio Technology = WLAN ax20 MIMO(MU), Operating Frequency = high, Subband = U-NII-3
 Band Edge = high
 (S01_AA01#S3.5)



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)
5851.900	58.0	---	117.87	59.84	1000.0	1000.000	150.0	V	-6.0	15.0	15.8

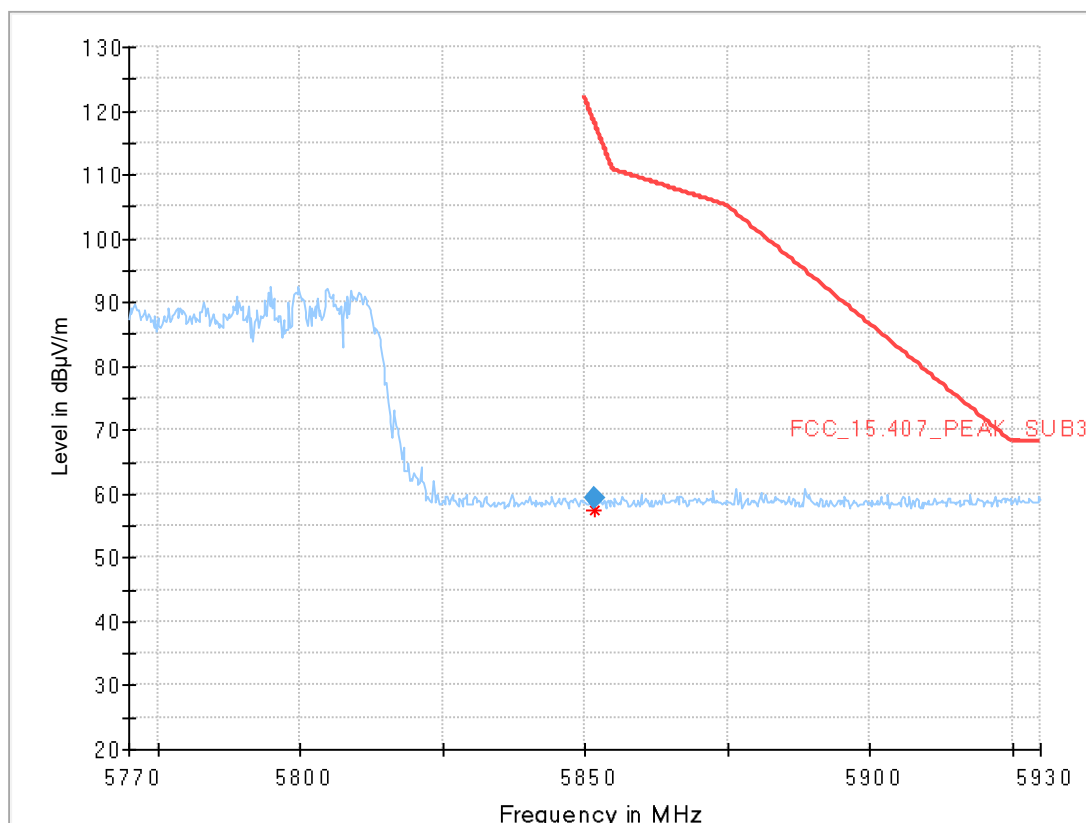
Radio Technology = WLAN ax40 MIMO(MU), Operating Frequency = high, Subband = U-NII-3
 Band Edge = high
 (S01_AA01#S3.5)



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)
5850.800	57.4	---	120.38	62.98	1000.0	1000.000	150.0	V	-186.0	105.0	15.8

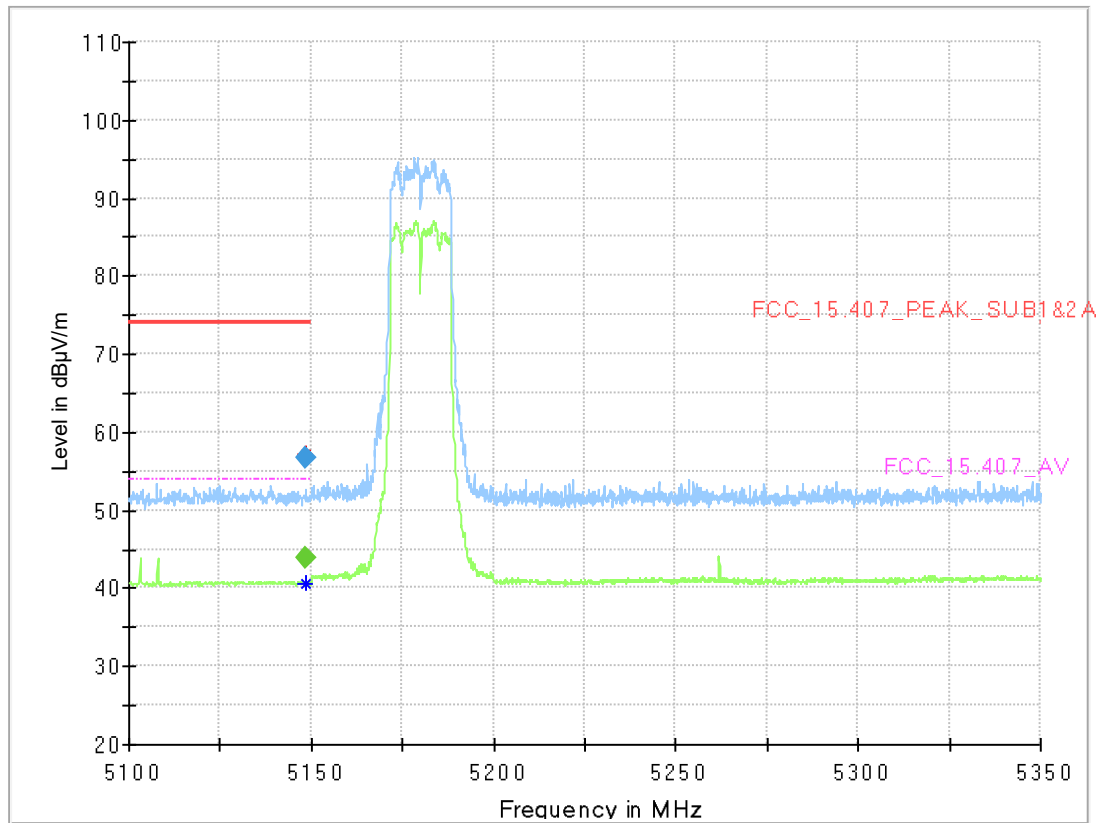
Radio Technology = WLAN ax80 MIMO(MU), Operating Frequency = low, Subband = U-NII-3
Band Edge = high
(S01_AA01#S3.5)



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)
5851.700	59.4	---	118.32	58.91	1000.0	1000.000	150.0	H	90.0	1.0	15.8

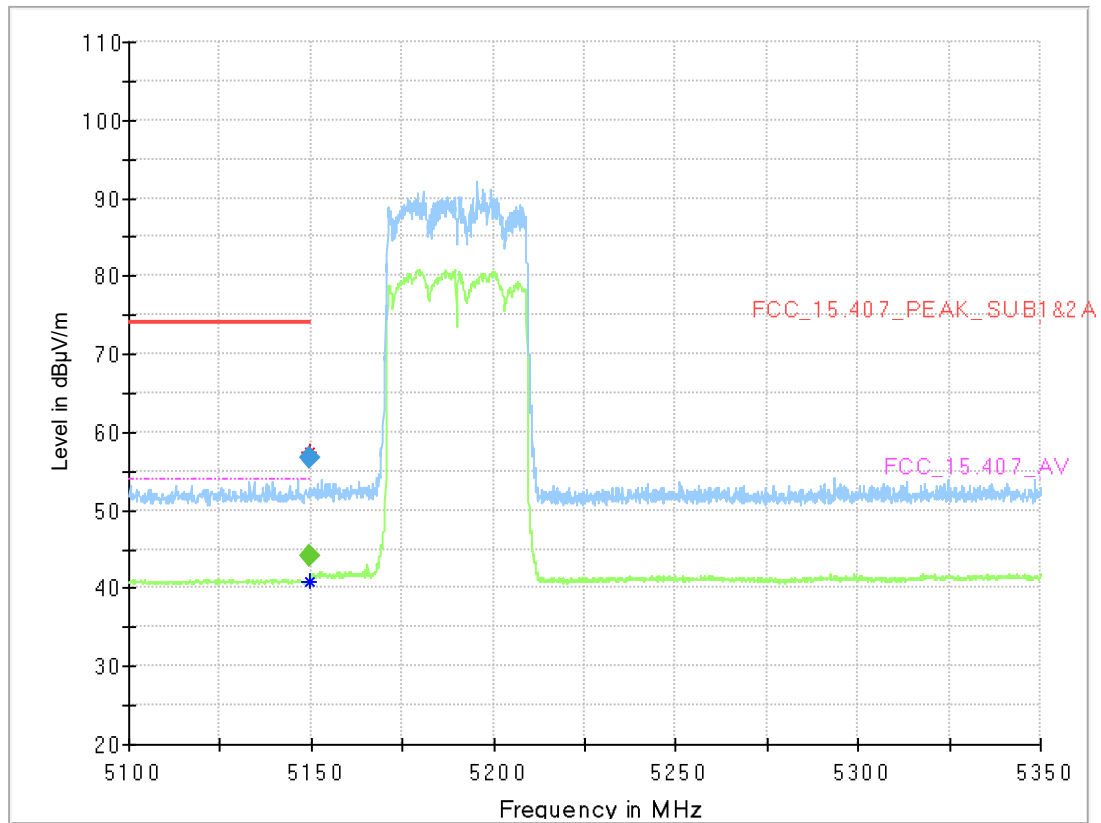
Radio Technology = WLAN a Diversity, Operating Frequency = low, Subband = U-NII-1
 Band Edge = low
 (S01_AB01#S3.0)



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)
5148.538	---	44.0	54.00	10.04	1000.0	1000.000	150.0	V	-138.0	82.0	15.0
5148.538	56.6	---	74.00	17.37	1000.0	1000.000	150.0	V	-138.0	82.0	15.0

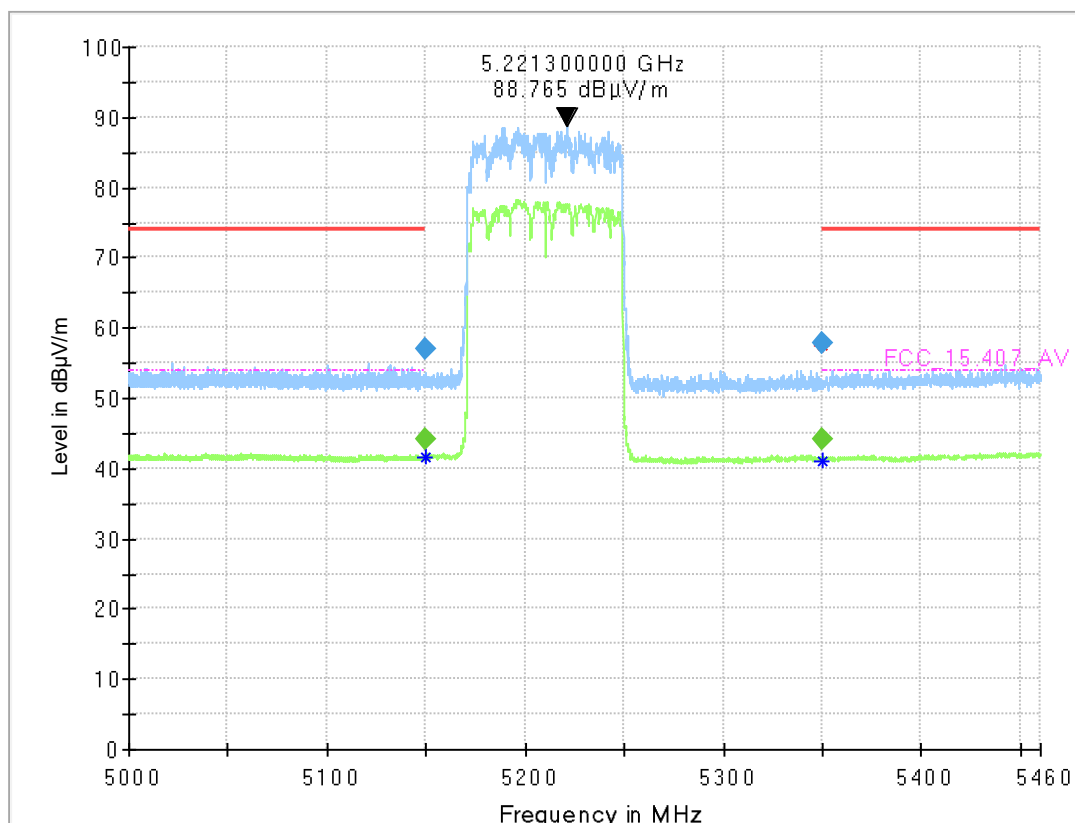
Radio Technology = WLAN ax40 MIMO(SU), Operating Frequency = low, Subband = U-NII-1
 Band Edge = low
 (S01_AB01#S3.0)



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)
5149.350	---	44.2	54.00	9.83	1000.0	1000.000	150.0	H	-190.0	105.0	15.0
5149.350	56.7	---	74.00	17.30	1000.0	1000.000	150.0	H	-190.0	105.0	15.0

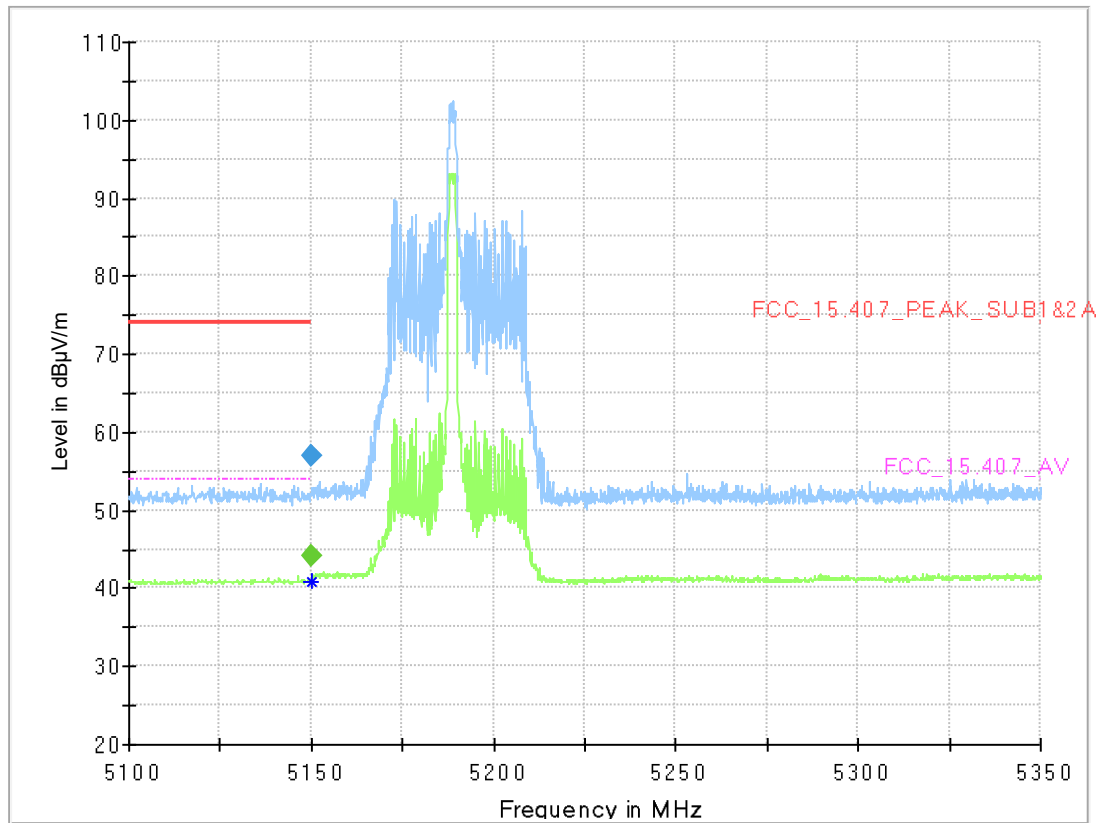
Radio Technology = WLAN ax80 MIMO(SU), Operating Frequency = mid, Subband = U-NII-1
Band Edge = low + high
(S01_AB01#S3.0)



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)
5149.963	---	44.0	54.00	9.98	1000.0	1000.000	150.0	H	95.0	-10.0	15.0
5149.963	56.9	---	74.00	17.12	1000.0	1000.000	150.0	H	95.0	-10.0	15.0
5350.000	---	44.2	54.00	9.79	1000.0	1000.000	150.0	V	-52.0	7.0	15.2
5350.000	57.8	---	74.00	16.19	1000.0	1000.000	150.0	V	-52.0	7.0	15.2

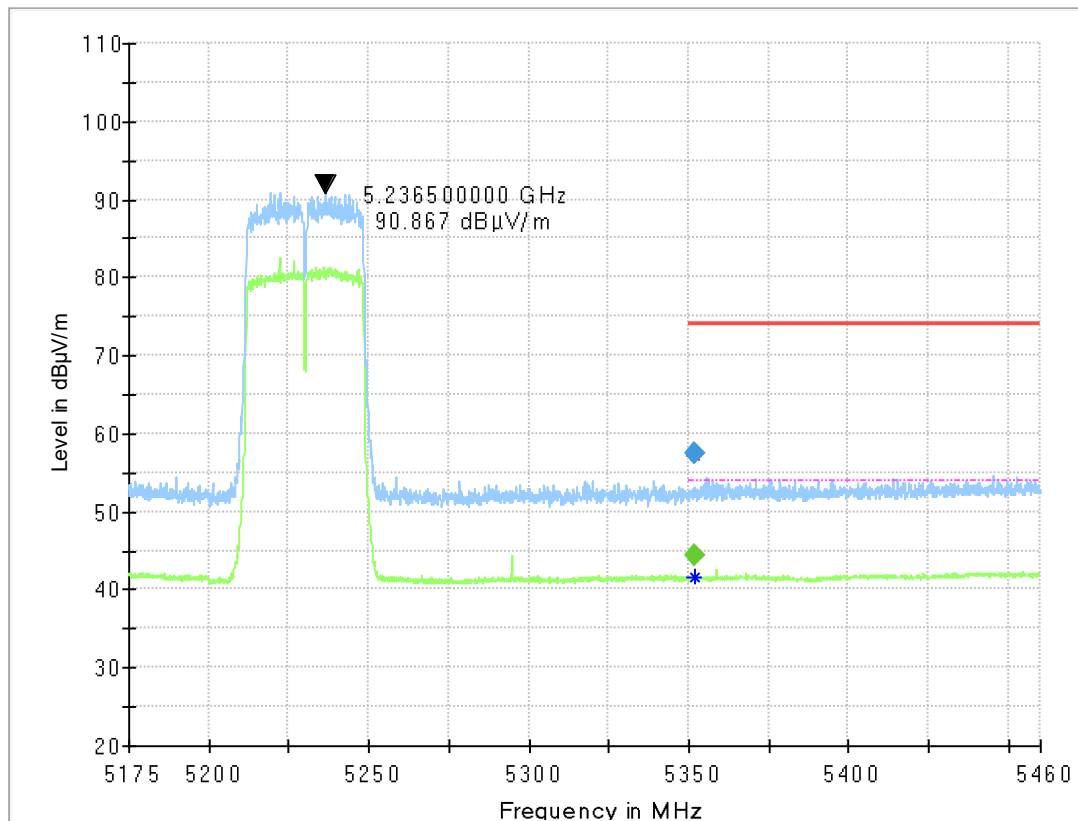
Radio Technology = WLAN ax40 MIMO(MU), Operating Frequency = low, Subband = U-NII-1
Band Edge = low
(S01_AB01#S3.0)



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	---	44.2	54.00	9.82	1000.0	1000.000	150.0	H	11.0	83.0	15.0
5150.000	57.1	---	74.00	16.94	1000.0	1000.000	150.0	H	11.0	83.0	15.0

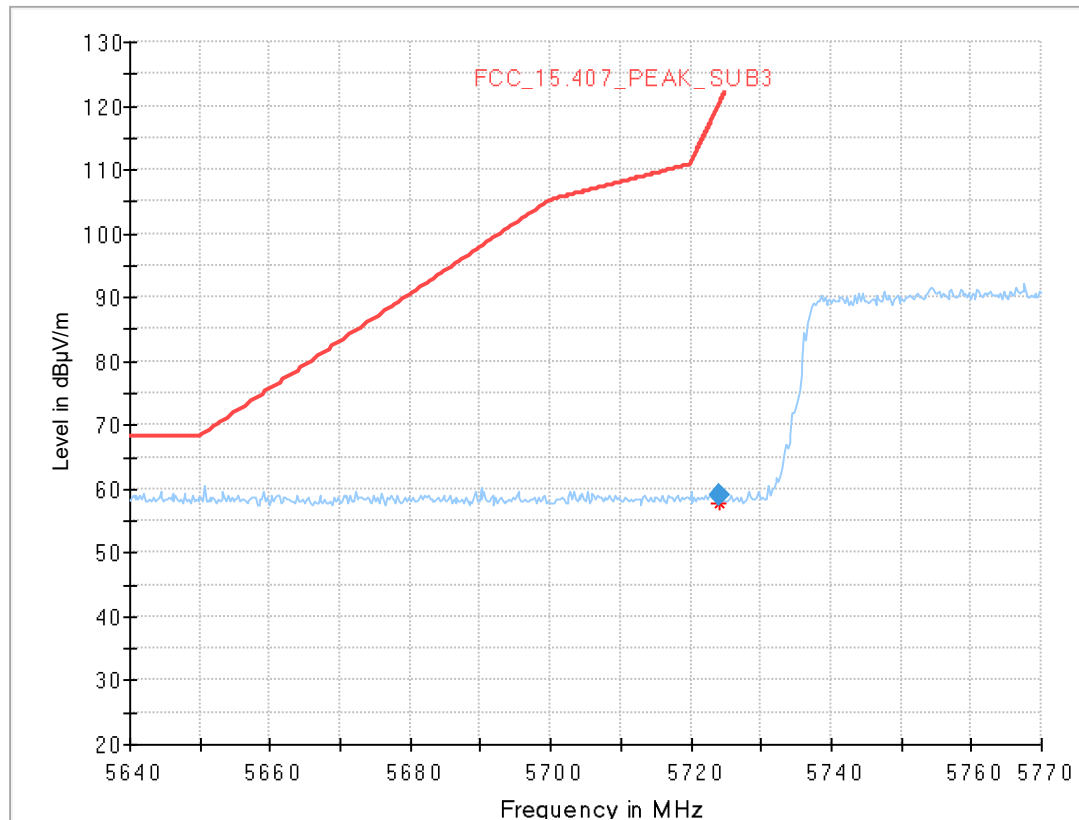
Radio Technology = WLAN ac40 MIMO, Operating Frequency = high, Subband = U-NII-1
 Band Edge = high
 (S01_AB01#S3.0)



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)
5351.650	---	44.3	54.00	9.75	1000.0	1000.000	150.0	H	-100.0	15.0	15.2
5351.650	57.5	---	74.00	16.53	1000.0	1000.000	150.0	H	-100.0	15.0	15.2

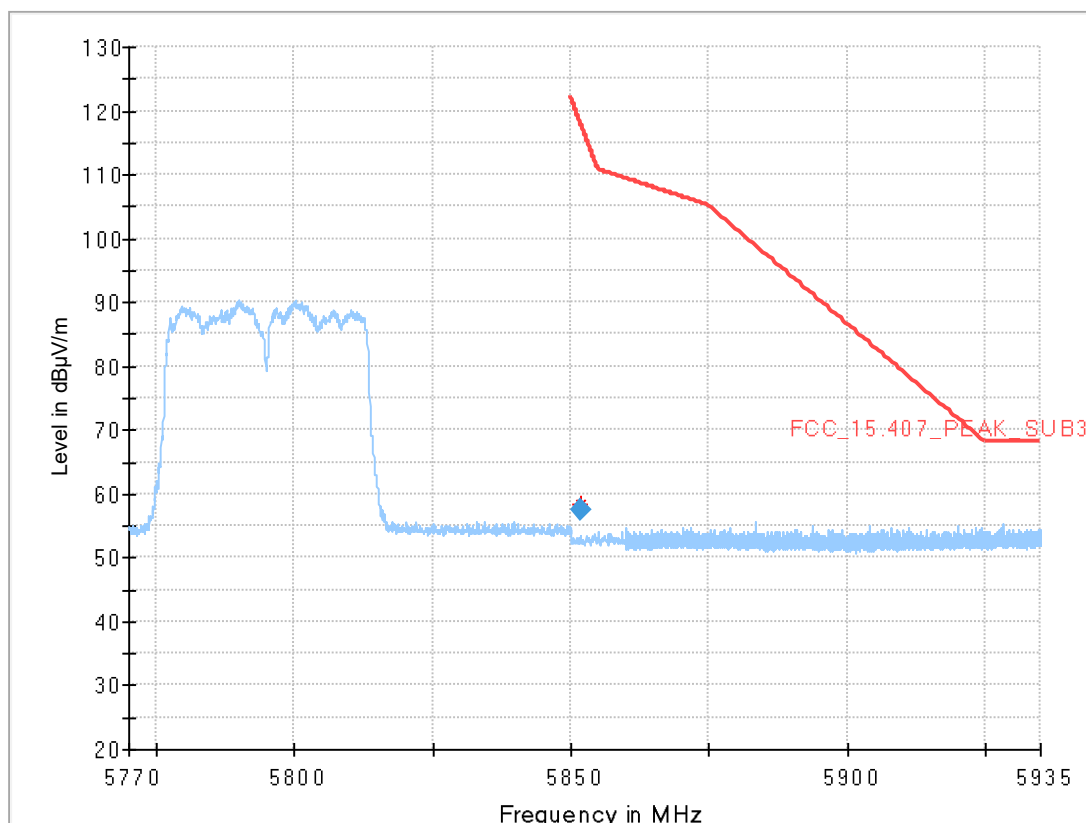
Radio Technology = WLAN ac80 MIMO, Operating Frequency = low, Subband = U-NII-3
Band Edge = low
(S01_AB01#S3.0)



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)
5724.100	59.0	---	120.15	61.10	1000.0	1000.000	150.0	V	98.0	94.0	15.7

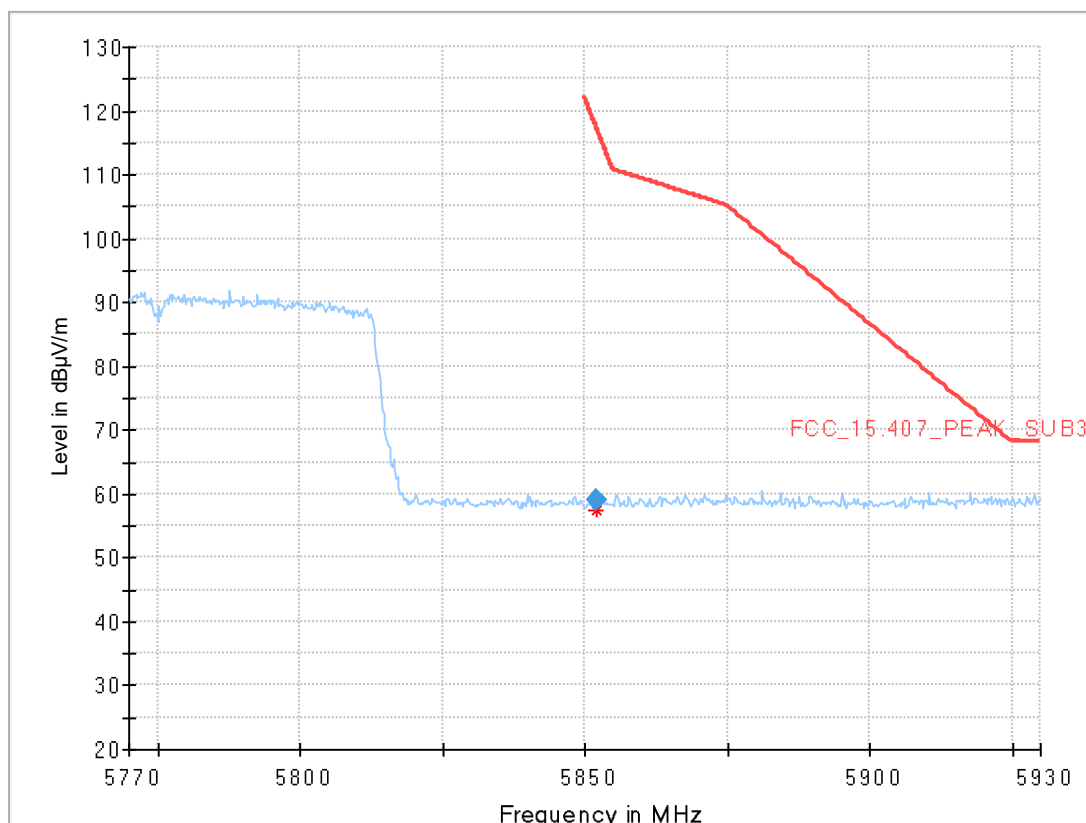
Radio Technology = WLAN n40 MIMO, Operating Frequency = high, Subband = U-NII-3
 Band Edge = high
 (S01_AB01#S3.0)



Final_Result

Frequency (MHz)	MaxPeak (dB μ V/m)	CAverage (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
5851.800	57.4	---	118.10	60.67	1000.0	1000.000	150.0	V	83.0	6.0	15.8

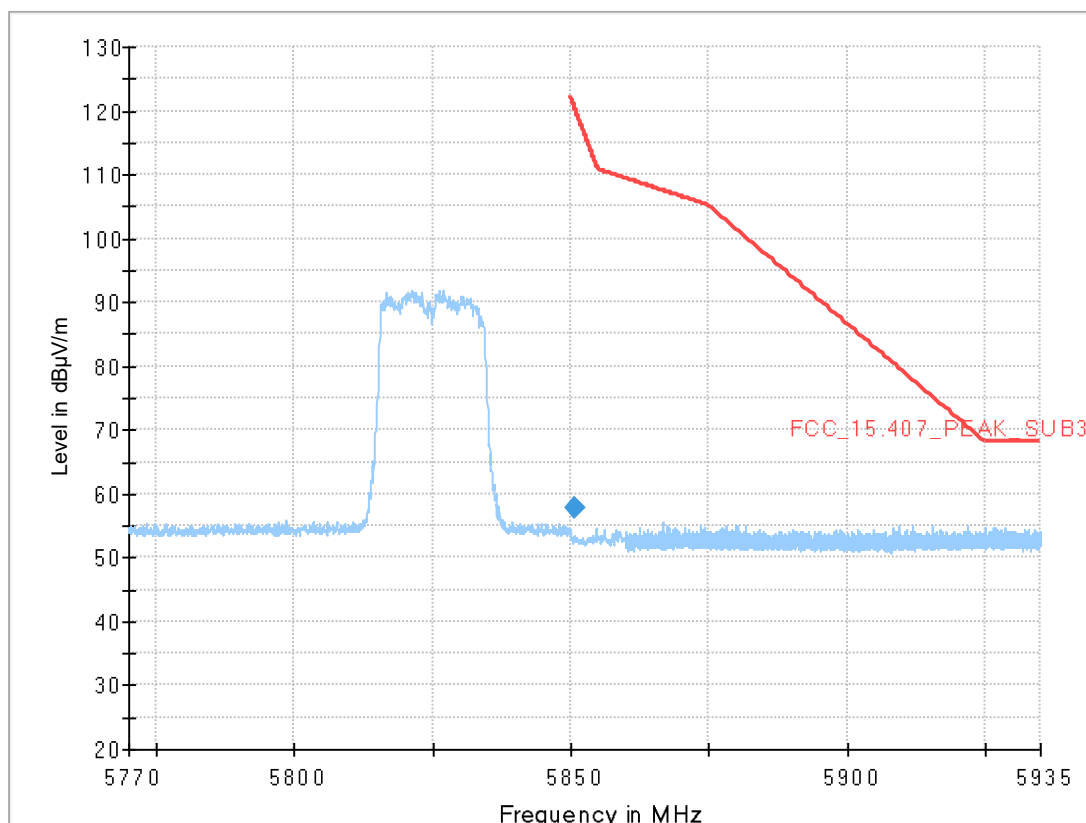
Radio Technology = WLAN ac80 MIMO, Operating Frequency = low, Subband = U-NII-3
 Band Edge = high
 (S01_AB01#S3.0)



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)
5851.942	59.0	---	117.77	58.77	1000.0	1000.000	150.0	H	-96.0	105.0	15.8

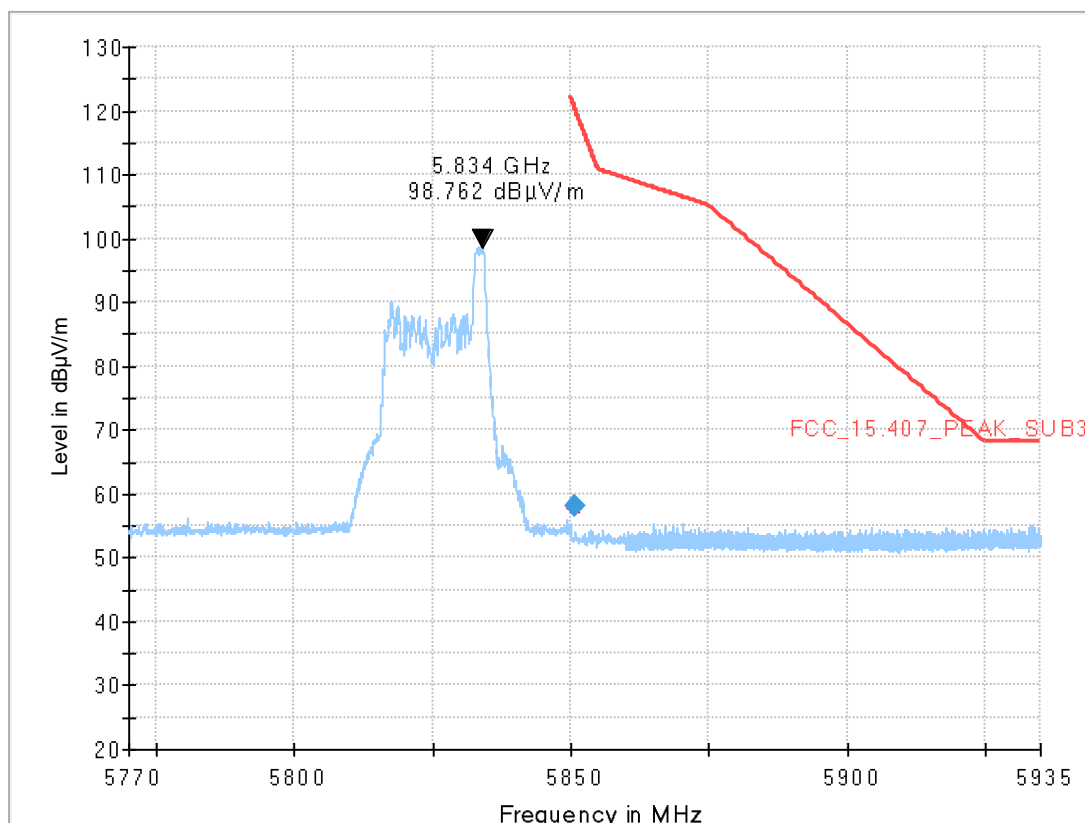
Radio Technology = WLAN ax20 MIMO(SU), Operating Frequency = high, Subband = U-NII-3
 Band Edge = high
 (S01_AB01#S3.0)



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)
5850.600	57.8	---	120.83	63.04	1000.0	1000.000	150.0	V	-93.0	-9.0	15.8

Radio Technology = WLAN ax20 MIMO(MU), Operating Frequency = high, Subband = U-NII-3
Band Edge = high
(S01_AB01#S3.0)



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)
5850.800	58.2	---	120.38	62.14	1000.0	1000.000	150.0	H	-34.0	78.0	15.8

5.2.5 TEST EQUIPMENT USED

- Radiated Emissions FAR 5 GHz FCC

6 TEST EQUIPMENT

6.1 TEST EQUIPMENT HARDWARE

- 1 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
1.1	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2023-12	2025-12
1.2	Innco Systems CO3000	Controller for bore sight mast FAC	innco systems GmbH	CO3000/1460/54740522/P	N/A	N/A
1.3	AMF-7D00101800-30-10P-R	Broadband Amplifier 100 MHz - 18 GHz	Miteq		N/A	N/A
1.4	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
1.5	Fluke 177	Digital Multimeter 03 (Multimeter)	Fluke Europe B.V.	86670383	2023-08	2025-08
1.6	JS4-18002600-32-5P	Broadband Amplifier 18 GHz - 26 GHz	Miteq	849785	N/A	N/A
1.7	FSW43	Spectrum Analyzer	Rohde & Schwarz GmbH & Co. KG	103779	2024-12	2026-12
1.8	EP 1200/B, NA/B1	AC Source, Amplifier with integrated variable Oscillator	Spitzenberger & Spies GmbH & Co. KG	B6278	N/A	N/A
1.9	3160-09	Standard Gain / Pyramidal Horn Antenna 26.5 GHz	EMCO Elektronik GmbH	00083069	N/A	N/A
1.10	WHKX 7.0/18G-8SS	High Pass Filter	Wainwright Instruments GmbH	09	N/A	N/A
1.11	MA3000/0800-XP-ET-compact	Bore Sight Antenna Mast	innco systems GmbH	9210522	N/A	N/A
1.12	TT 1.5 WI	Turn Table	Maturo GmbH	-	N/A	N/A
1.13	3160-10	Standard Gain / Pyramidal Horn Antenna 40 GHz	EMCO Elektronik GmbH	00086675	N/A	N/A
1.14	Opus 20 THI (8120.00)	ThermoHygro Datalogger	Lufft Mess- und Regeltechnik GmbH	115.0318.0802.033	2023-08	2025-08
1.15	TD1.5-10kg	EUT Tilt Device (Rohacell)	Maturo GmbH	TD1.5-10kg/024/3790709	N/A	N/A
1.16	AFS42-00101800-25-S-42	Broadband Amplifier 25 MHz - 18 GHz	Miteq	2035324	N/A	N/A
1.17	HF 907	Double-ridged horn	Rohde & Schwarz	102444	2024-10	2027-10

2 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
2.1	N5000/NP	Filter for EUT, 2 Lines, 250 V, 16 A	ETS-LINDGREN	241515	N/A	N/A
2.2	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2023-12	2025-12
2.3	ESW44	EMI Receiver / Spectrum Analyzer	Rohde & Schwarz GmbH & Co. KG	101603	2024-03	2026-03
2.4	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
2.5	Fluke 177	Digital Multimeter 03 (Multimeter)	Fluke Europe B.V.	86670383	2023-08	2025-08
2.6	Opus10 THI (8152.00)	T/H Logger 10	Lufft Mess- und Regeltechnik GmbH	12488	2023-12	2025-12
2.7	EP 1200/B, NA/B1	AC Source, Amplifier with integrated variable Oscillator	Spitzenberger & Spies GmbH & Co. KG	B6278	N/A	N/A
2.8	DS 420S	Turn Table 2 m diameter	HD GmbH	420/573/99	N/A	N/A
2.9	HFH2-Z2	Loop Antenna + 3 Axis Tripod	Rohde & Schwarz GmbH & Co. KG	829324/006	2024-04	2027-04
2.10	CS-RUB6	Rubidium Frequency Standard	Rohde & Schwarz GmbH & Co. KG	100321	2023-10	2025-10

3 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
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	HL 562 ULTRALOG	Biconical-log-per antenna (30 MHz - 3 GHz) with HL 562E biconicals	Rohde & Schwarz GmbH & Co. KG	830547/003	2021-09	2024-09
3.6	Fluke 177	Digital Multimeter 03 (Multimeter)	Fluke Europe B.V.	86670383	2023-08	2025-08
3.7	Opus10 THI (8152.00)	T/H Logger 10	Lufft Mess- und Regeltechnik GmbH	12488	2023-12	2025-12
3.8	EP 1200/B, NA/B1	AC Source, Amplifier with integrated variable Oscillator	Spitzenberger & Spies GmbH & Co. KG	B6278	N/A	N/A
3.9	DS 420S	Turn Table 2 m diameter	HD GmbH	420/573/99	N/A	N/A
3.10	HL562E ULTRALOG	Biconical-log-per Antenna (30 MHz - 6 GHz)	Rohde & Schwarz GmbH & Co. KG	102299	2024-07	2027-07
3.11	Chase CBL6111C + INMET 64671 18N-6dB	Hybrid Antenna with 6dB Attenuator		2624 Kartei-Nr E-003226/K1026	2023-03	2026-03
3.12	CS-RUB6	Rubidium Frequency Standard	Rohde & Schwarz GmbH & Co. KG	100321	2023-10	2025-10
3.13	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 ANTENNA R&S HFH2-Z2 (9 KHZ – 30 MHZ)

Frequency MHz	AF HFH- Z2) dB (1/m)	Corr. dB	cable loss 1 (inside chamber) dB	cable loss 2 (outside chamber) dB	cable loss 3 (switch unit) dB	cable loss 4 (to receiver) dB	distance corr. (-40 dB/ decade) dB	d _{Limit} (meas. distance (limit) m	d _{used} (meas. distance (used) 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

$$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + AF \text{ (dB 1/m)} + Corr. \text{ (dB)}$$

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

distance correction = $-40 * \text{LOG} (d_{\text{Limit}} / d_{\text{used}})$

Linear interpolation will be used for frequencies in between the values in the table.

Table shows an extract of values

7.2 ANTENNA R&S HL562 (30 MHz – 1 GHz)

($d_{\text{Limit}} = 3 \text{ m}$)

Frequency	AF R&S HL562	Corr.
MHz	dB (1/m)	dB
30	18.6	0.6
50	6.0	0.9
100	9.7	1.2
150	7.9	1.6
200	7.6	1.9
250	9.5	2.1
300	11.0	2.3
350	12.4	2.6
400	13.6	2.9
450	14.7	3.1
500	15.6	3.2
550	16.3	3.5
600	17.2	3.5
650	18.1	3.6
700	18.5	3.6
750	19.1	4.1
800	19.6	4.1
850	20.1	4.4
900	20.8	4.7
950	21.1	4.8
1000	21.6	4.9

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))
dB	dB	dB	dB	dB	m	m
0.29	0.04	0.23	0.02	0.0	3	3
0.39	0.09	0.32	0.08	0.0	3	3
0.56	0.14	0.47	0.08	0.0	3	3
0.73	0.20	0.59	0.12	0.0	3	3
0.84	0.21	0.70	0.11	0.0	3	3
0.98	0.24	0.80	0.13	0.0	3	3
1.04	0.26	0.89	0.15	0.0	3	3
1.18	0.31	0.96	0.13	0.0	3	3
1.28	0.35	1.03	0.19	0.0	3	3
1.39	0.38	1.11	0.22	0.0	3	3
1.44	0.39	1.20	0.19	0.0	3	3
1.55	0.46	1.24	0.23	0.0	3	3
1.59	0.43	1.29	0.23	0.0	3	3
1.67	0.34	1.35	0.22	0.0	3	3
1.67	0.42	1.41	0.15	0.0	3	3
1.87	0.54	1.46	0.25	0.0	3	3
1.90	0.46	1.51	0.25	0.0	3	3
1.99	0.60	1.56	0.27	0.0	3	3
2.14	0.60	1.63	0.29	0.0	3	3
2.22	0.60	1.66	0.33	0.0	3	3
2.23	0.61	1.71	0.30	0.0	3	3

($d_{\text{Limit}} = 10 \text{ m}$)

30	18.6	-9.9
50	6.0	-9.6
100	9.7	-9.2
150	7.9	-8.8
200	7.6	-8.6
250	9.5	-8.3
300	11.0	-8.1
350	12.4	-7.9
400	13.6	-7.6
450	14.7	-7.4
500	15.6	-7.2
550	16.3	-7.0
600	17.2	-6.9
650	18.1	-6.9
700	18.5	-6.8
750	19.1	-6.3
800	19.6	-6.3
850	20.1	-6.0
900	20.8	-5.8
950	21.1	-5.6
1000	21.6	-5.6

0.29	0.04	0.23	0.02	-10.5	10	3
0.39	0.09	0.32	0.08	-10.5	10	3
0.56	0.14	0.47	0.08	-10.5	10	3
0.73	0.20	0.59	0.12	-10.5	10	3
0.84	0.21	0.70	0.11	-10.5	10	3
0.98	0.24	0.80	0.13	-10.5	10	3
1.04	0.26	0.89	0.15	-10.5	10	3
1.18	0.31	0.96	0.13	-10.5	10	3
1.28	0.35	1.03	0.19	-10.5	10	3
1.39	0.38	1.11	0.22	-10.5	10	3
1.44	0.39	1.20	0.19	-10.5	10	3
1.55	0.46	1.24	0.23	-10.5	10	3
1.59	0.43	1.29	0.23	-10.5	10	3
1.67	0.34	1.35	0.22	-10.5	10	3
1.67	0.42	1.41	0.15	-10.5	10	3
1.87	0.54	1.46	0.25	-10.5	10	3
1.90	0.46	1.51	0.25	-10.5	10	3
1.99	0.60	1.56	0.27	-10.5	10	3
2.14	0.60	1.63	0.29	-10.5	10	3
2.22	0.60	1.66	0.33	-10.5	10	3
2.23	0.61	1.71	0.30	-10.5	10	3

Sample calculation

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

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

Frequency	AF R&S HF907	Corr.
MHz	dB (1/m)	dB
1000	24.4	-19.4
2000	28.5	-17.4
3000	31.0	-16.1
4000	33.1	-14.7
5000	34.4	-13.7
6000	34.7	-12.7
7000	35.6	-11.0

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)		
dB	dB	dB	dB		
0.99	0.31	-21.51	0.79		
1.44	0.44	-20.63	1.38		
1.87	0.53	-19.85	1.33		
2.41	0.67	-19.13	1.31		
2.78	0.86	-18.71	1.40		
2.74	0.90	-17.83	1.47		
2.82	0.86	-16.19	1.46		

Frequency	AF R&S HF907	Corr.
MHz	dB (1/m)	dB
3000	31.0	-23.4
4000	33.1	-23.3
5000	34.4	-21.7
6000	34.7	-21.2
7000	35.6	-19.8

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
dB	dB	dB	dB	dB	
0.47	1.87	0.53	-27.58	1.33	
0.56	2.41	0.67	-28.23	1.31	
0.61	2.78	0.86	-27.35	1.40	
0.58	2.74	0.90	-26.89	1.47	
0.66	2.82	0.86	-25.58	1.46	

Frequency	AF R&S HF907	Corr.
MHz	dB (1/m)	dB
7000	35.6	-57.3
8000	36.3	-56.3
9000	37.1	-55.3
10000	37.5	-56.2
11000	37.5	-55.3
12000	37.6	-53.7
13000	38.2	-53.5
14000	39.9	-56.3
15000	40.9	-54.1
16000	41.3	-54.1
17000	42.8	-54.4
18000	44.2	-54.7

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)
dB	dB	dB	dB	dB	dB
0.56	1.28	-62.72	2.66	0.94	1.46
0.69	0.71	-61.49	2.84	1.00	1.53
0.68	0.65	-60.80	3.06	1.09	1.60
0.70	0.54	-61.91	3.28	1.20	1.67
0.80	0.61	-61.40	3.43	1.27	1.70
0.84	0.42	-59.70	3.53	1.26	1.73
0.83	0.44	-59.81	3.75	1.32	1.83
0.91	0.53	-63.03	3.91	1.40	1.77
0.98	0.54	-61.05	4.02	1.44	1.83
1.23	0.49	-61.51	4.17	1.51	1.85
1.36	0.76	-62.36	4.34	1.53	2.00
1.70	0.53	-62.88	4.41	1.55	1.91

Sample calculation

$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + AF \text{ (dB 1/m)} + Corr. \text{ (dB)}$

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.

7.4 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

$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + AF \text{ (dB 1/m)} + Corr. \text{ (dB)}$

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.

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

Frequency GHz	AF EMCO 3160-10 dB (1/m)	Corr. dB	cable loss 1 (inside chamber) dB	cable loss 2 (outside chamber) dB	cable loss 3 (switch unit) dB	cable loss 4 (to receiver) dB	distance corr. (-20 dB/ decade) dB	d _{Limit} (meas. distance (limit) m	d _{used} (meas. distance (used) 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

$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + AF \text{ (dB 1/m)} + Corr. \text{ (dB)}$

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 = $-20 * \text{LOG} (d_{\text{Limit}} / d_{\text{used}})$

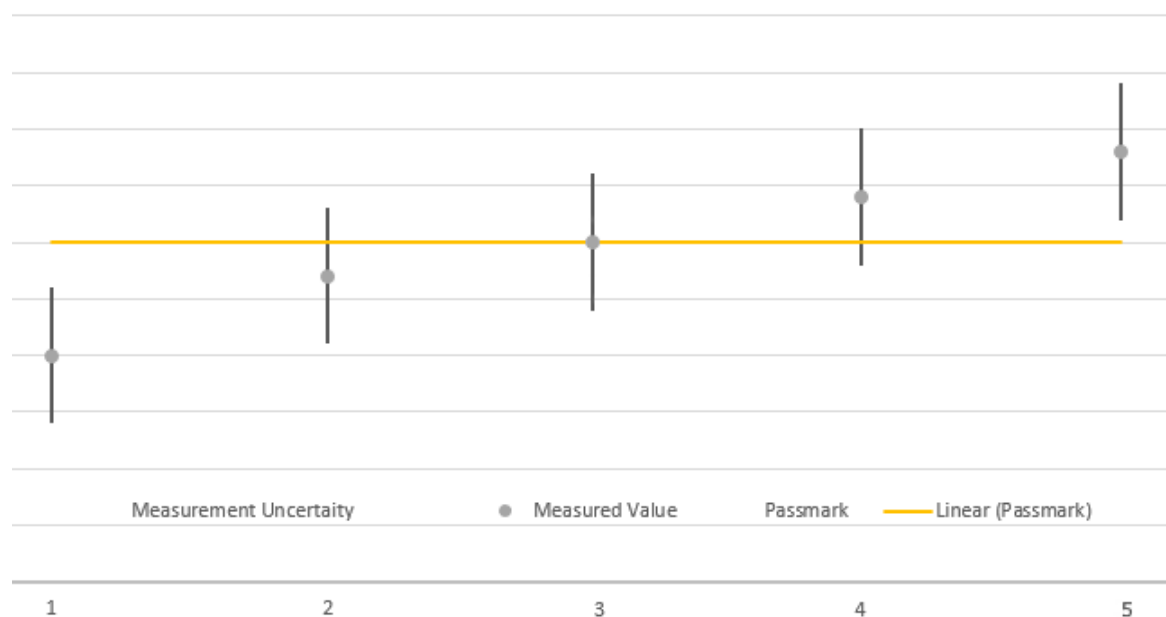
Linear interpolation will be used for frequencies in between the values in the table.

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*****