

7.4 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 100	500 (AV)	3
	5000(PK)	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

Remark: Field strength limits '500 (AV) / 5000 (PK) $\mu\text{V/m}$ @ 3 m' are derived from FCC § 15.209(a) (applicable to emissions falling in restricted bands per FCC § 15.205). For frequencies above 1000 MHz, this corresponds to $20 \cdot \log_{10}(500) \approx 53.98 \rightarrow 54 \text{ dB}\mu\text{V/m}$ (AV) and $20 \cdot \log_{10}(5000) \approx 73.98 \rightarrow 74 \text{ dB}\mu\text{V/m}$ (PK). These limits apply to radiated emissions falling in restricted bands.

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

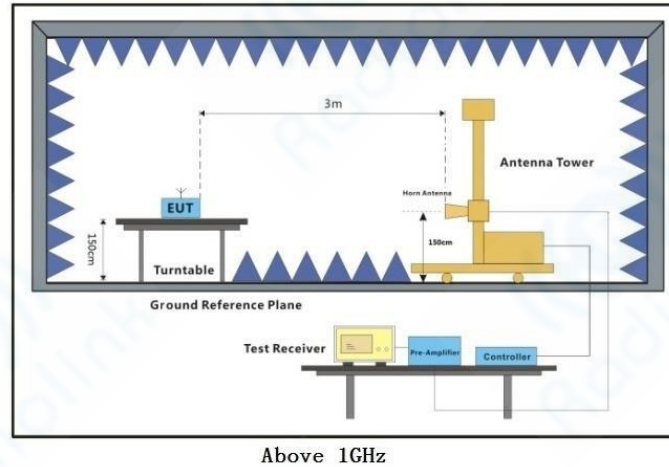
Mode Code	Description
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1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11N 20/40M, Only the data of worst case is recorded in the report.
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

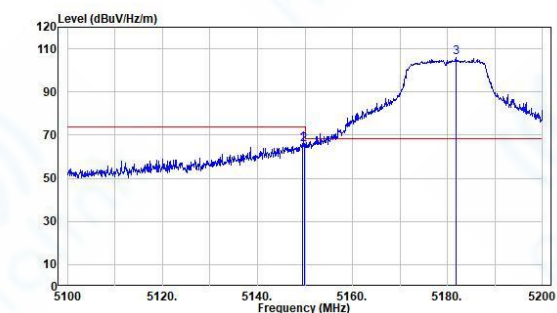
Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

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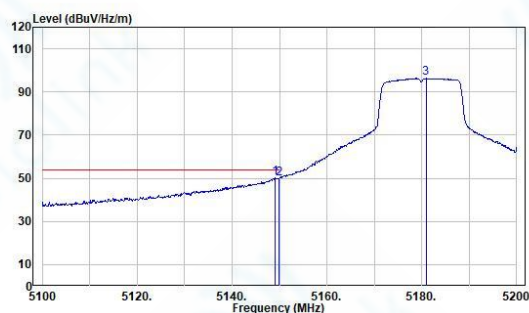
11a_TX_CH_36_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 36
Power : 14
Rate : 6M
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5149.400	43.18	66.24	74.00	-7.76	Peak
2 5149.800	42.55	65.61	74.00	-8.39	Peak
3 5181.800	82.85	105.96	68.20	37.76	Peak

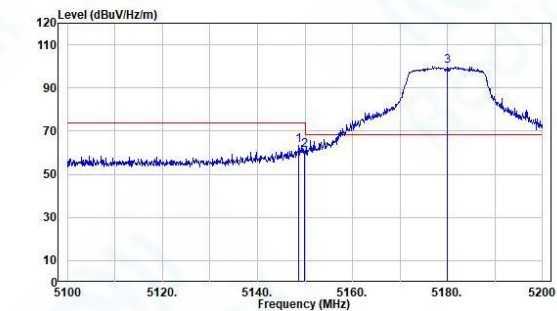
11a_TX_CH_36_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 36
Power : 14
Rate : 6M
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5149.000	27.03	50.10	54.00	-3.90	Average
2 5149.900	26.98	50.04	54.00	-3.96	Average
3 5180.900	73.18	96.29	68.20	28.09	Average

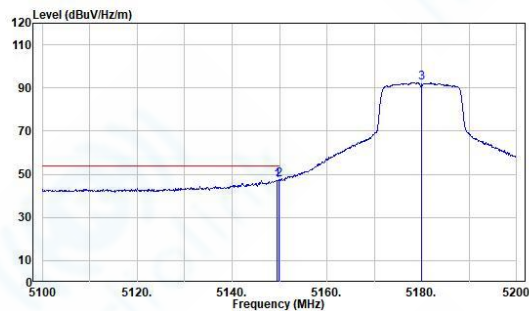
11a_TX_CH_36_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 36
Power : 14
Rate : 6M
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5148.700	40.55	63.62	74.00	-10.38	Peak
2 5149.900	38.25	61.31	74.00	-12.69	Peak
3 5180.000	76.77	99.88	68.20	31.68	Peak

11a_TX_CH_36_Vertical-Avg

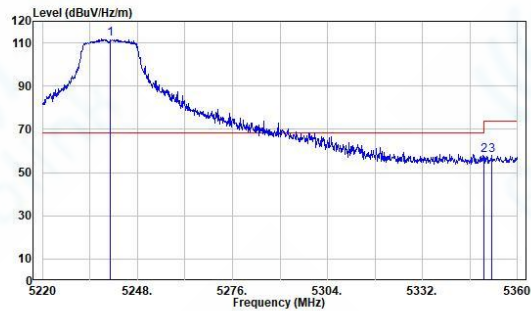


Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 36
Power : 14
Rate : 6M
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5149.400	23.98	47.04	54.00	-6.96	Average
2 5149.900	24.37	47.43	54.00	-6.57	Average
3 5180.000	69.29	92.40	68.20	24.20	Average



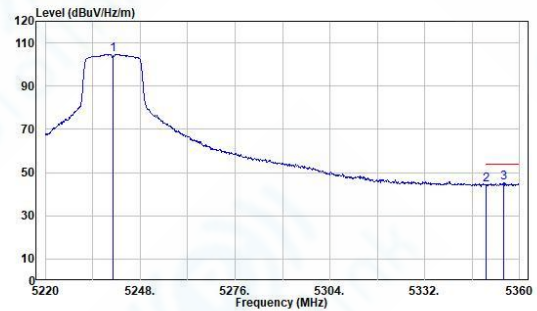
11a_TX_CH_48_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 48
Power : 1500
Rate : 6M
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5240.000	87.95	111.71	68.20	43.51	Peak
2 5350.020	33.32	57.87	74.00	-16.13	Peak
3 5352.300	33.41	57.91	74.00	-16.09	Peak

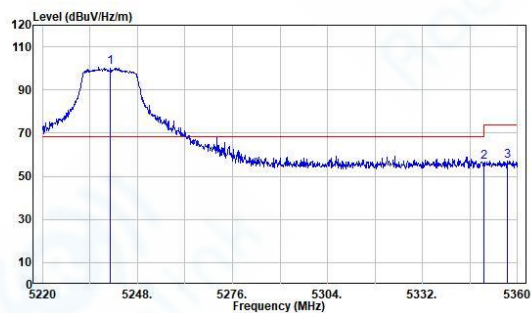
11a_TX_CH_48_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 48
Power : 1500
Rate : 6M
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5240.000	80.92	104.68	68.20	36.48	Average
2 5350.020	19.89	44.44	54.00	-9.56	Average
3 5355.300	20.97	45.41	54.00	-8.59	Average

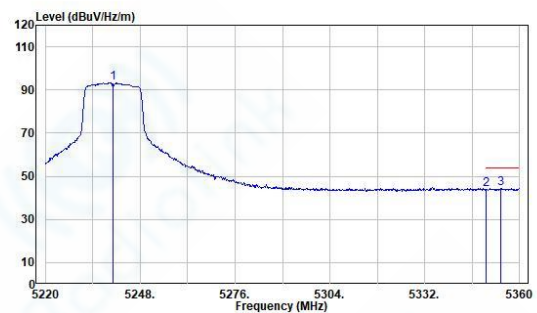
11a_TX_CH_48_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 48
Power : 1500
Rate : 6M
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5240.000	76.58	100.34	68.20	32.14	Peak
2 5350.020	31.86	56.41	74.00	-17.59	Peak
3 5357.060	32.84	57.25	74.00	-16.75	Peak

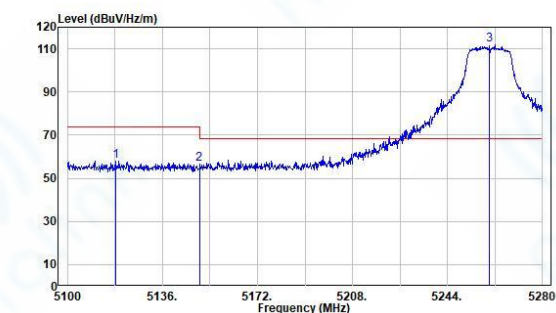
11a_TX_CH_48_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 48
Power : 1500
Rate : 6M
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5240.000	69.51	93.27	68.20	25.07	Average
2 5350.020	19.51	44.06	54.00	-9.94	Average
3 5354.540	19.90	44.36	54.00	-9.64	Average

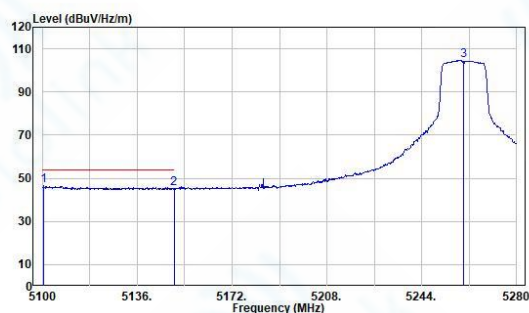
11a_TX_CH_52_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 52
Power : 1500
Rate : 6M
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5118.180	34.72	57.87	74.00	-16.13 Peak
2 5149.980	33.43	56.49	74.00	-17.51 Peak
3 5260.000	87.93	111.86	68.20	43.66 Peak

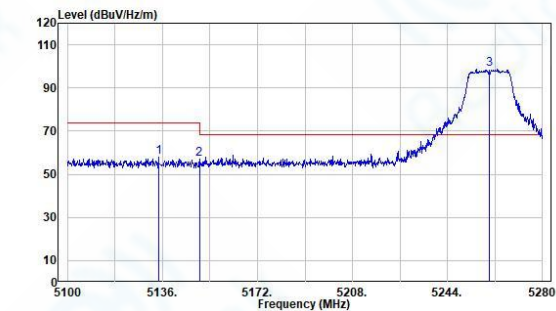
11a_TX_CH_52_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 52
Power : 1500
Rate : 6M
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5100.540	23.53	46.73	54.00	-7.27 Average
2 5149.980	22.25	45.31	54.00	-8.69 Average
3 5260.000	80.78	104.71	68.20	36.51 Average

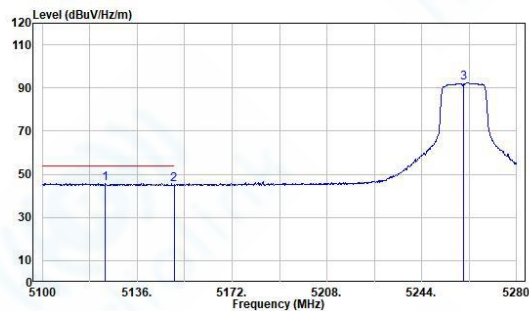
11a_TX_CH_52_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 52
Power : 1500
Rate : 6M
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5134.560	34.70	57.80	74.00	-16.20 Peak
2 5149.980	33.95	57.01	74.00	-16.99 Peak
3 5260.000	74.70	98.63	68.20	30.43 Peak

11a_TX_CH_52_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 52
Power : 1500
Rate : 6M
Note : RL20260830001E

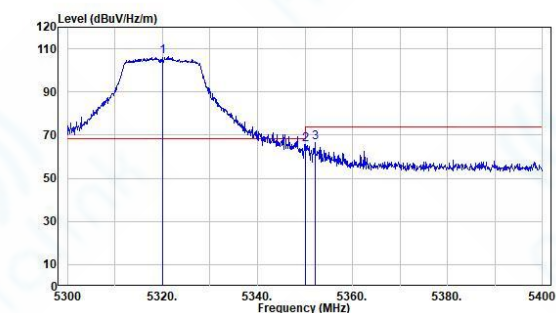
Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5123.940	22.74	45.88	54.00	-8.12 Average
2 5149.980	22.12	45.18	54.00	-8.82 Average
3 5260.000	68.41	92.34	68.20	24.14 Average

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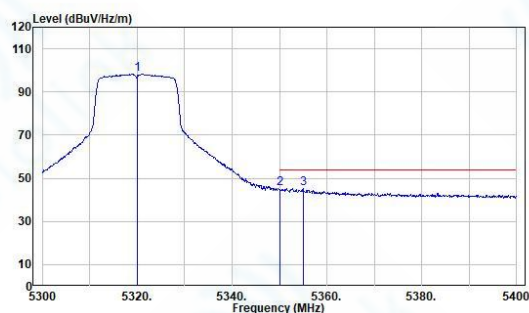
11a_TX_CH_64_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 64
Power : 14
Rate : 6M
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit Remark
MHz	dBuV/H	dBuV/H	dB
1 5320.000	82.36	106.62	60.20 38.42 Peak
2 5350.020	41.13	65.68	74.00 -8.32 Peak
3 5352.100	42.26	66.76	74.00 -7.24 Peak

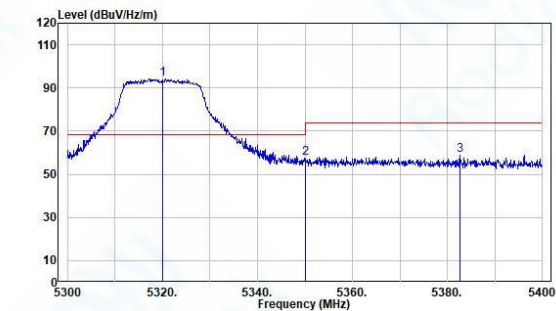
11a_TX_CH_64_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 64
Power : 14
Rate : 6M
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit Remark
MHz	dBuV/H	dBuV/H	dB
1 5320.000	74.09	98.35	68.20 30.15 Average
2 5350.020	20.74	45.29	54.00 -8.71 Average
3 5355.000	20.81	45.26	54.00 -8.74 Average

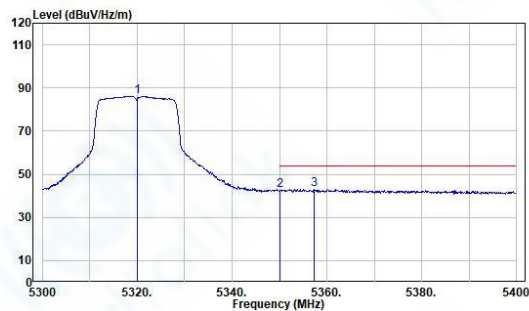
11a_TX_CH_64_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 64
Power : 14
Rate : 6M
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit Remark
MHz	dBuV/H	dBuV/H	dB
1 5320.000	70.15	94.41	60.20 26.21 Peak
2 5350.020	32.95	57.50	74.00 -16.50 Peak
3 5352.600	34.82	58.75	74.00 -15.25 Peak

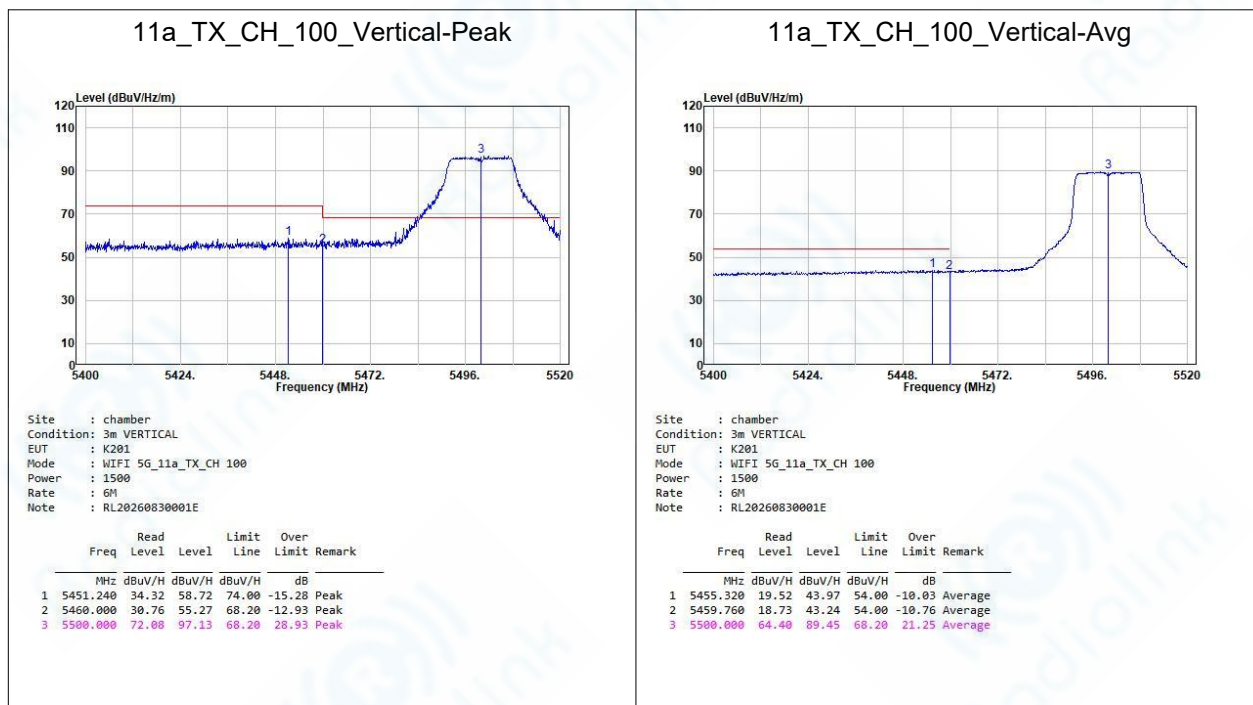
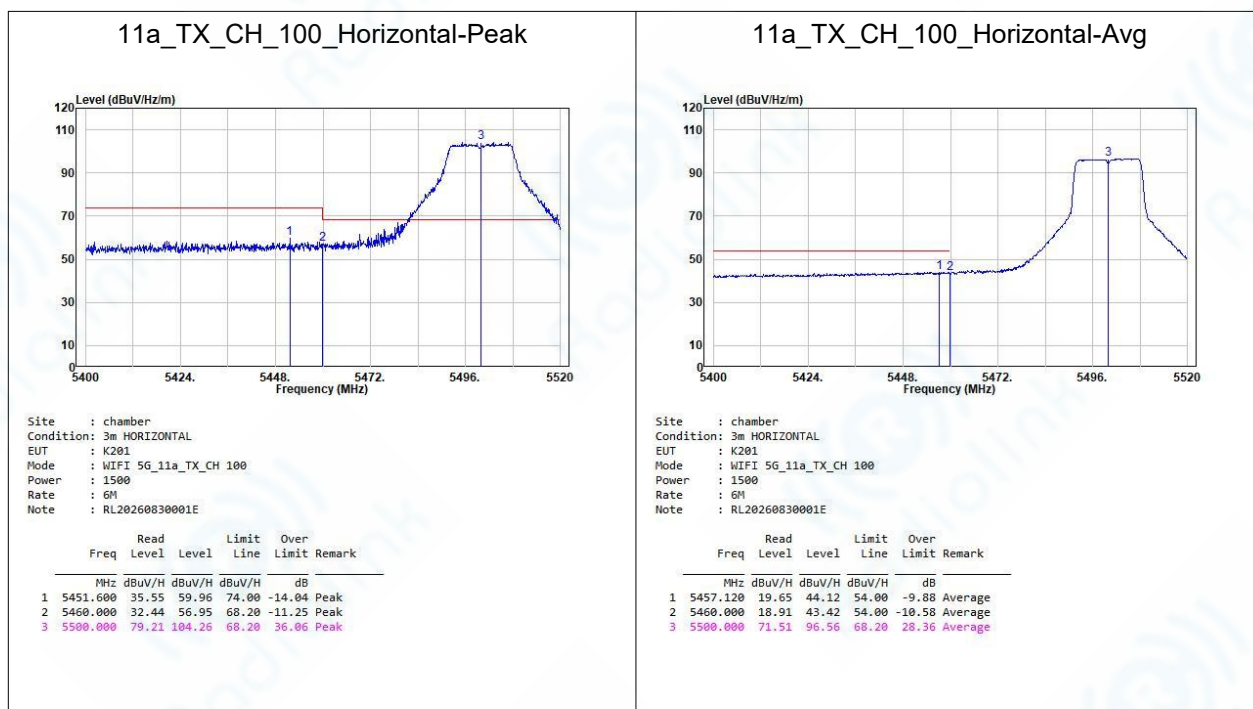
11a_TX_CH_64_Vertical-Avg

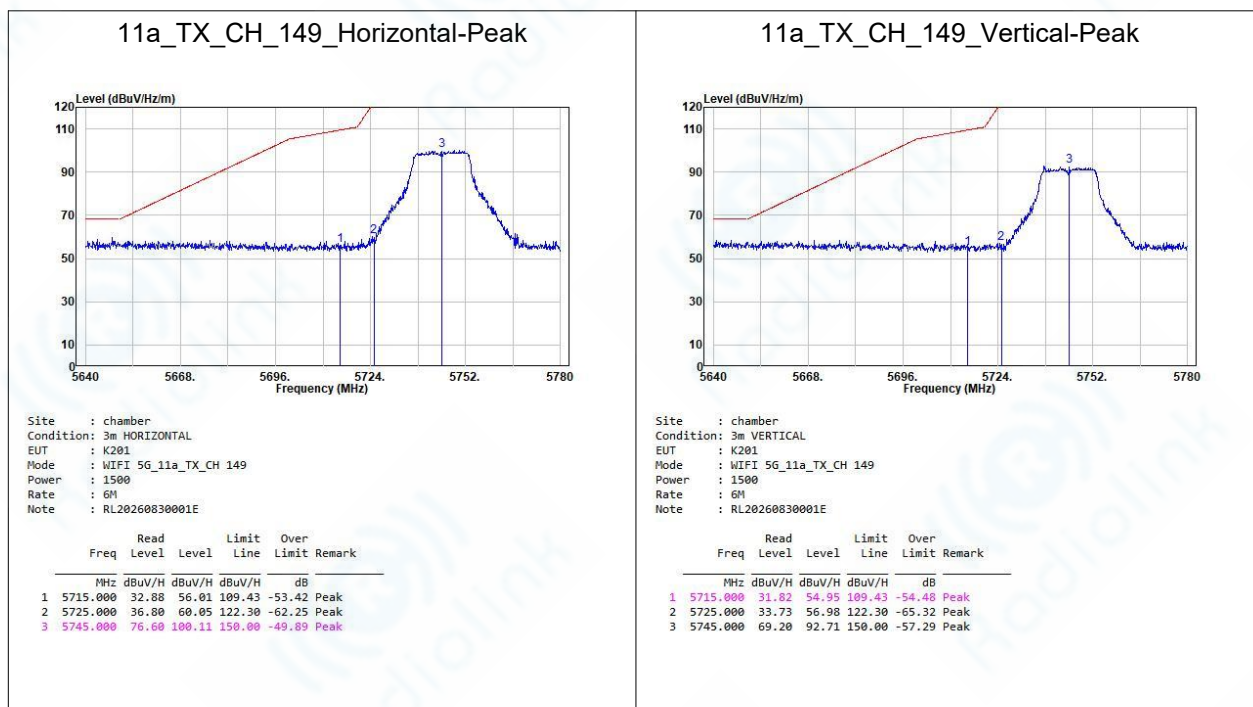
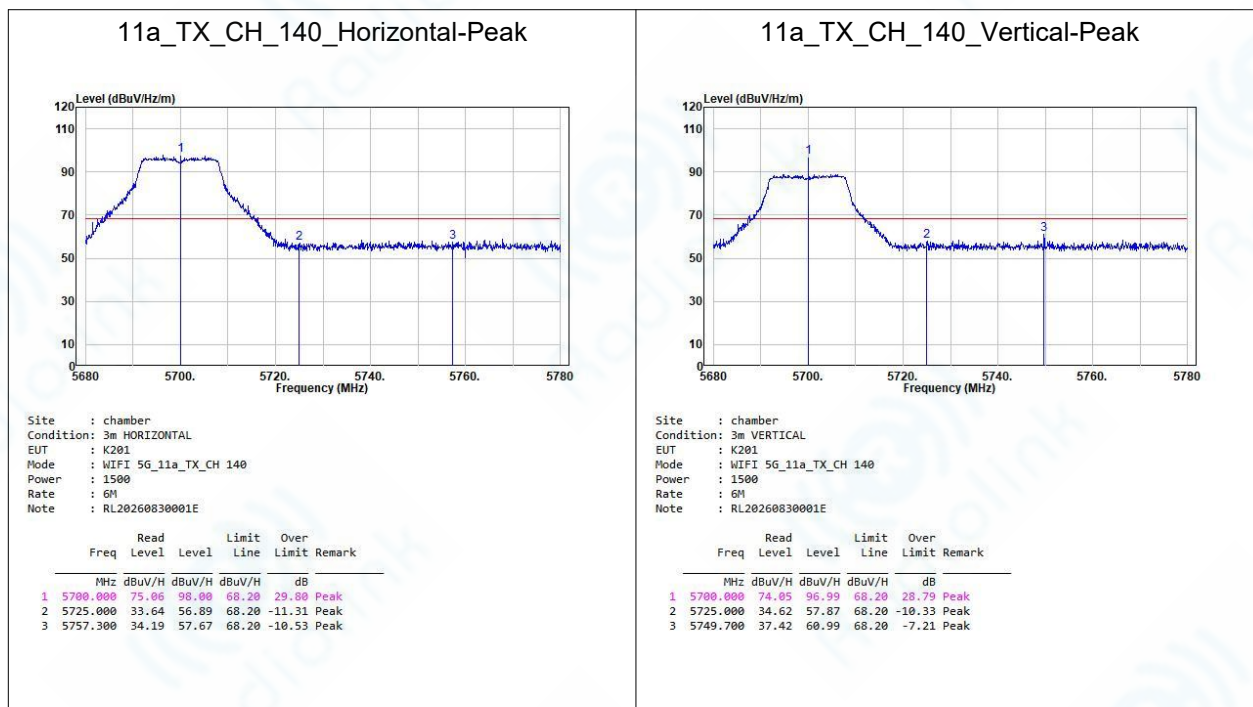


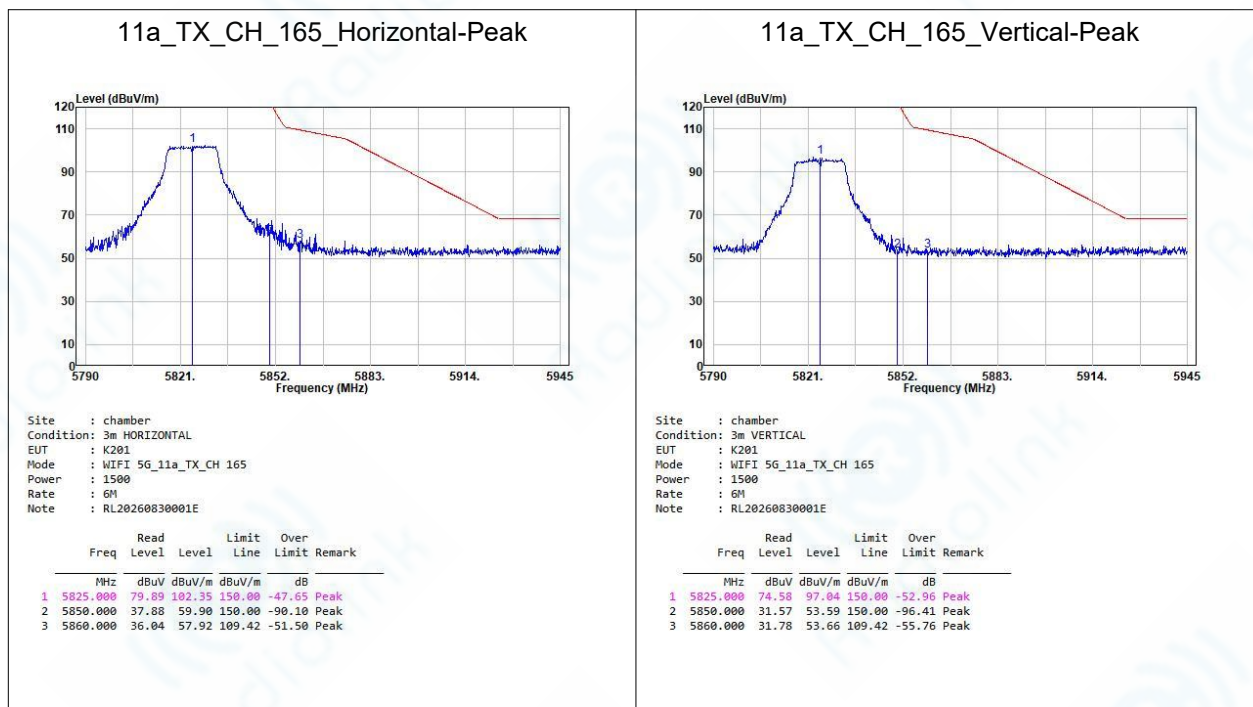
Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11a_TX_CH 64
Power : 14
Rate : 6M
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit Remark
MHz	dBuV/H	dBuV/H	dB
1 5320.000	61.89	86.15	68.20 17.95 Average
2 5350.020	18.03	42.58	54.00 -11.42 Average
3 5357.400	18.81	43.22	54.00 -10.78 Average





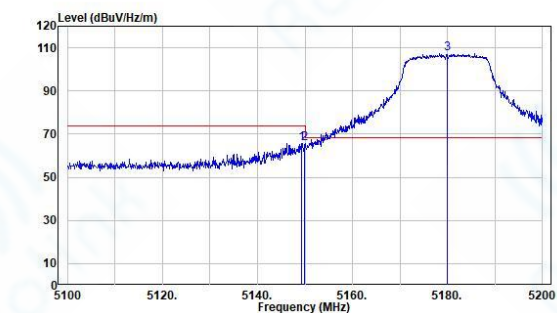




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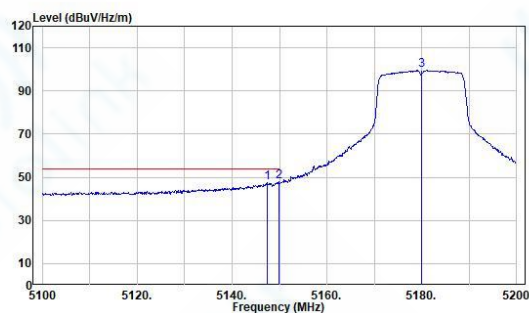
11n20_TX_CH_36_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 36
Power : 14
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit	Over	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5149.200	42.79	65.85	74.00	-8.15	Peak
2	5149.980	42.50	65.56	74.00	-8.44	Peak
3	5180.000	84.24	107.35	68.20	39.15	Peak

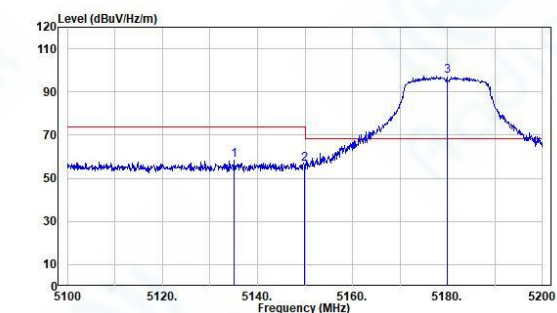
11n_TX_CH_36_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 36
Power : 14
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit	Over	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5147.500	24.51	47.58	54.00	-6.42	Average
2	5149.980	24.86	47.92	54.00	-6.08	Average
3	5180.000	76.48	99.59	68.20	31.39	Average

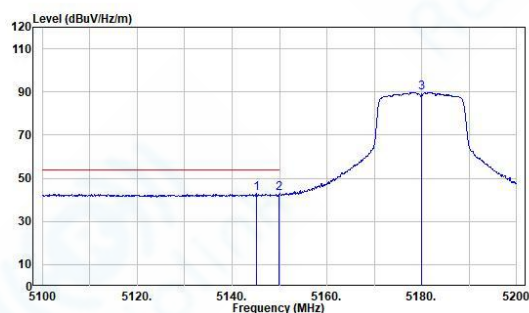
11n20_TX_CH_36_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 36
Power : 14
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit	Over	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5135.000	35.14	58.24	74.00	-15.76	Peak
2	5149.980	33.71	56.77	74.00	-17.23	Peak
3	5180.000	74.21	97.32	68.20	29.12	Peak

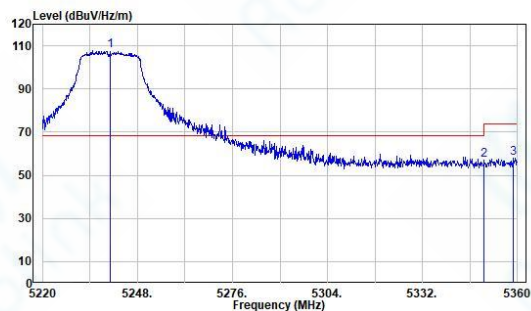
11n20_TX_CH_36_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 36
Power : 14
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit	Over	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5145.100	19.88	42.96	54.00	-11.04	Average
2	5149.980	19.79	42.85	54.00	-11.15	Average
3	5180.000	66.54	89.65	68.20	21.45	Average

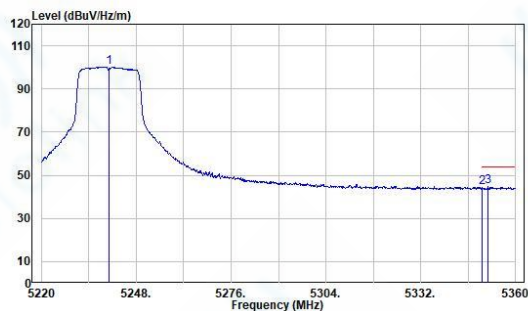
11n20_TX_CH_48_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 48
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5248.000	84.00	107.76	68.20	39.56 Peak
2 5350.020	32.54	57.09	74.00	-16.91 Peak
3 5358.740	33.58	57.96	74.00	-16.04 Peak

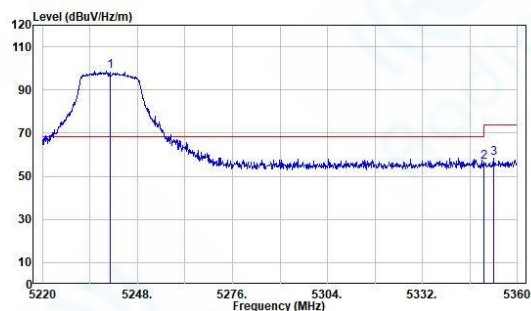
11n_TX_CH_48_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 48
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5248.000	76.47	100.23	68.20	32.03 Average
2 5350.020	19.64	44.19	54.00	-9.81 Average
3 5351.740	20.43	44.94	54.00	-9.06 Average

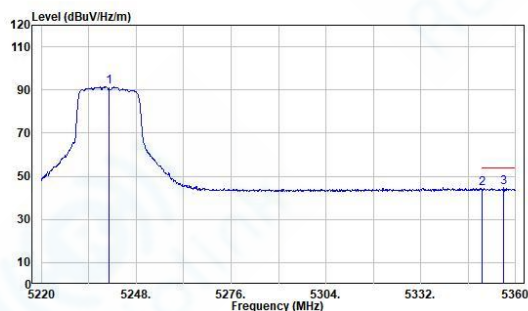
11n20_TX_CH_48_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 48
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5248.000	74.94	98.70	68.20	30.50 Peak
2 5350.020	32.26	56.81	74.00	-17.19 Peak
3 5353.000	33.76	58.25	74.00	-15.75 Peak

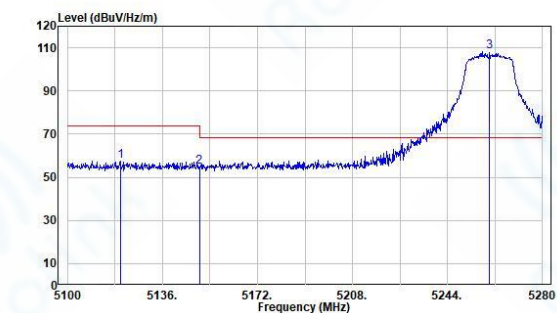
11n20_TX_CH_48_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 48
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5248.000	67.57	91.33	68.20	23.13 Average
2 5350.020	19.88	44.43	54.00	-9.57 Average
3 5356.500	20.25	44.67	54.00	-9.33 Average

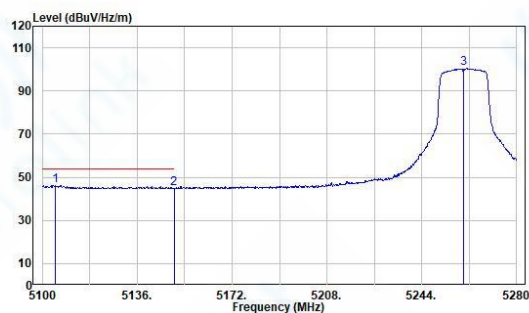
11n20_TX_CH_52_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 52
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5119.980	34.24	57.39	74.00	-16.61	Peak
2	5149.980	31.72	54.78	74.00	-19.22	Peak
3	5260.000	84.08	108.01	68.20	39.81	Peak

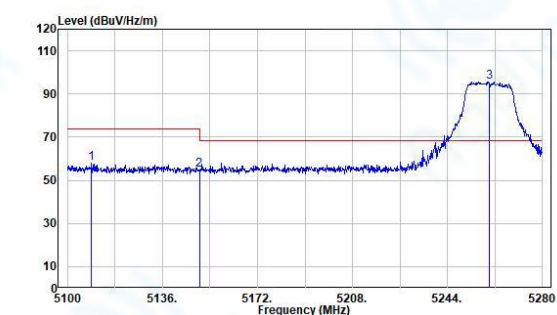
11n_TX_CH_52_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 52
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5104.860	23.15	46.33	54.00	-7.67	Average
2	5149.980	21.81	44.87	54.00	-9.13	Average
3	5260.000	76.52	100.45	68.20	32.25	Average

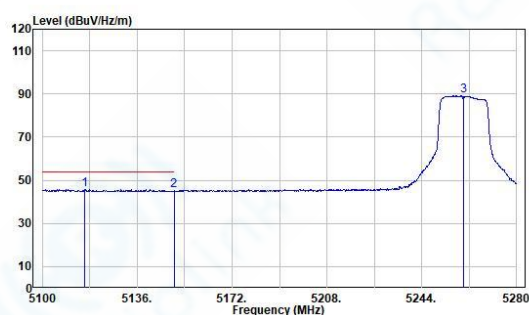
11n20_TX_CH_52_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 52
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5109.180	34.62	57.79	74.00	-16.21	Peak
2	5149.980	31.93	54.99	74.00	-19.01	Peak
3	5260.000	71.77	95.70	68.20	27.50	Peak

11n20_TX_CH_52_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 52
Power : 1500
Rate : MCS0
Note : RL20260830001E

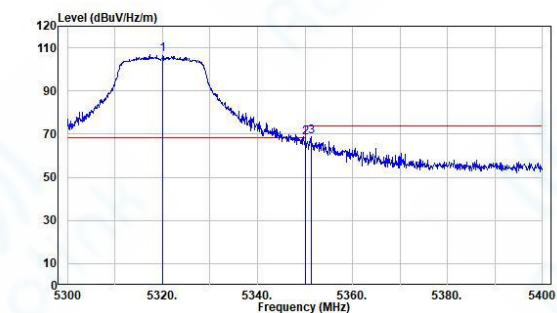
	Freq	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5116.200	22.55	45.70	54.00	-8.30	Average
2	5149.980	22.08	45.14	54.00	-8.86	Average
3	5260.000	65.21	89.14	68.20	20.94	Average

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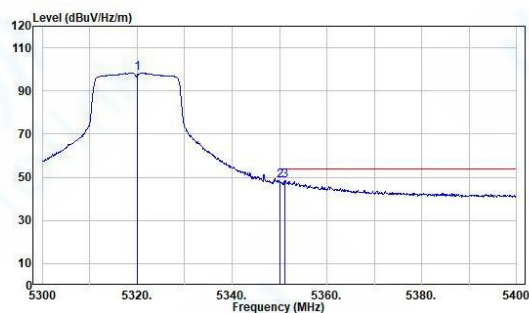
11n20_TX_CH_64_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 64
Power : 14
Rate : MCS0
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5320.000	82.42	106.68	68.20	38.48	Peak
2 5350.020	43.85	68.40	74.00	-5.60	Peak
3 5351.300	44.50	69.02	74.00	-4.98	Peak

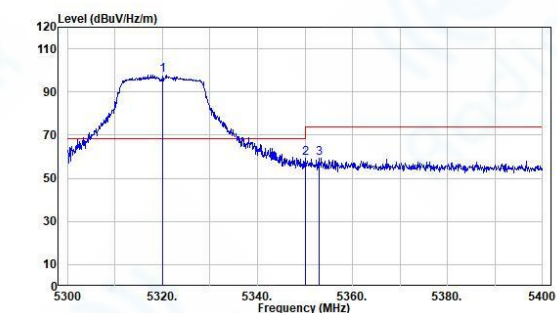
11n_TX_CH_64_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 64
Power : 14
Rate : MCS0
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5320.000	74.21	98.47	68.20	30.27	Average
2 5350.020	23.83	48.38	54.00	-5.62	Average
3 5351.200	24.09	48.61	54.00	-5.39	Average

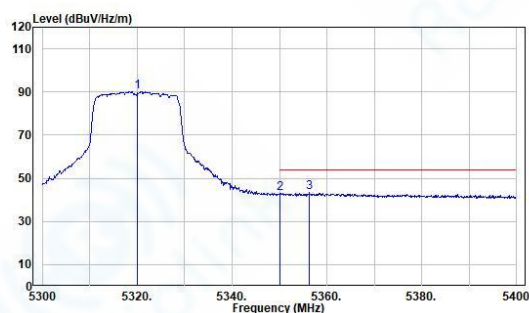
11n20_TX_CH_64_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 64
Power : 14
Rate : MCS0
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5320.000	75.71	97.97	68.20	29.77	Peak
2 5350.020	34.68	59.23	74.00	-14.77	Peak
3 5352.900	34.90	59.40	74.00	-14.60	Peak

11n20_TX_CH_64_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 64
Power : 14
Rate : MCS0
Note : RL20260830001E

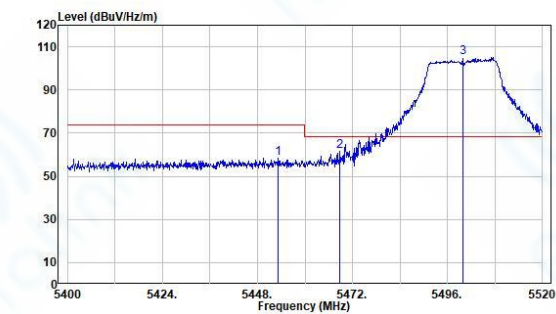
	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5320.000	65.89	90.15	68.20	21.95	Average
2 5350.020	18.58	43.13	54.00	-10.87	Average
3 5356.300	18.89	43.31	54.00	-10.69	Average

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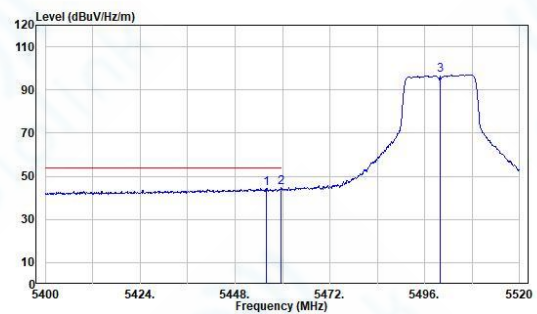
11n20_TX_CH_100_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 100
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Read	Limit	Over	
Freq	Level	Level	Line	Limit Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5453.280	33.85	58.27	74.00	-15.73 Peak
2 5468.880	37.15	61.78	68.20	-6.42 Peak
3 5500.000	79.91	104.96	68.20	36.76 Peak

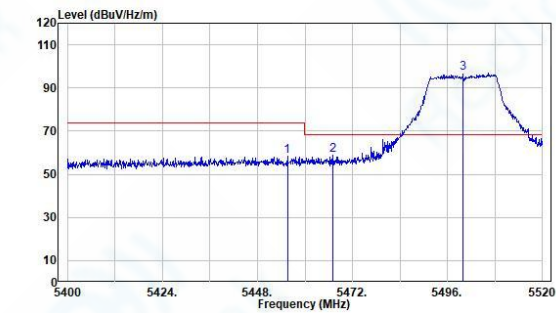
11n_TX_CH_100_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 100
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Read	Limit	Over	
Freq	Level	Level	Line	Limit Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5455.920	19.98	44.44	54.00	-9.56 Average
2 5459.640	20.11	44.62	54.00	-9.38 Average
3 5500.000	72.03	97.08	68.20	28.88 Average

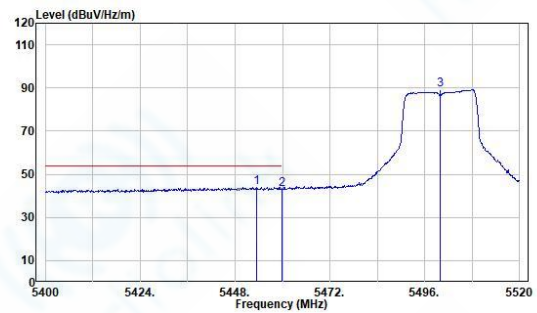
11n20_TX_CH_100_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 100
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Read	Limit	Over	
Freq	Level	Level	Line	Limit Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5455.560	33.89	58.35	74.00	-15.65 Peak
2 5466.960	34.29	58.90	68.20	-9.30 Peak
3 5500.000	71.75	96.80	68.20	28.60 Peak

11n20_TX_CH_100_Vertical-Avg

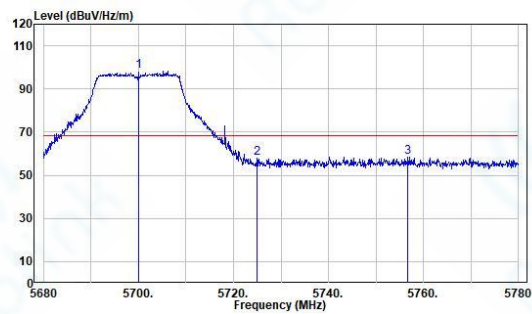


Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 100
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Read	Limit	Over	
Freq	Level	Level	Line	Limit Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5453.400	19.48	43.90	54.00	-10.10 Average
2 5460.000	18.62	43.13	54.00	-10.87 Average
3 5500.000	64.16	89.21	68.20	21.01 Average



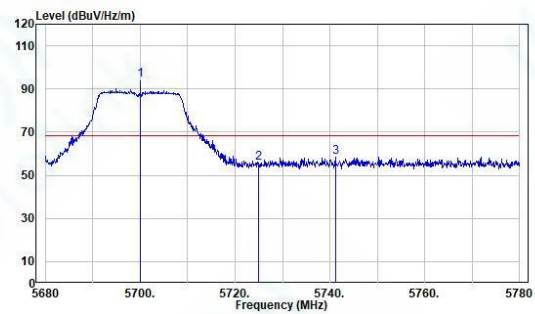
11n20_TX_CH_140_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 140
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit
MHz	dBuV/H	dBuV/H	dB
1 5700.000	75.38	98.32	68.20 30.12 Peak
2 5725.000	34.57	57.82	68.20 -10.38 Peak
3 5756.700	35.03	58.51	68.20 -9.69 Peak

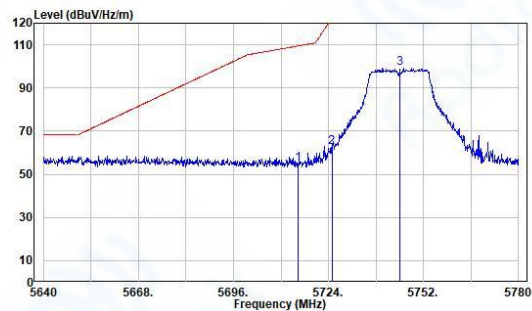
11n20_TX_CH_140_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 140
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit
MHz	dBuV/H	dBuV/H	dB
1 5700.000	71.22	94.16	68.20 25.96 Peak
2 5725.000	32.23	55.48	68.20 -12.72 Peak
3 5741.200	35.02	58.47	68.20 -9.73 Peak

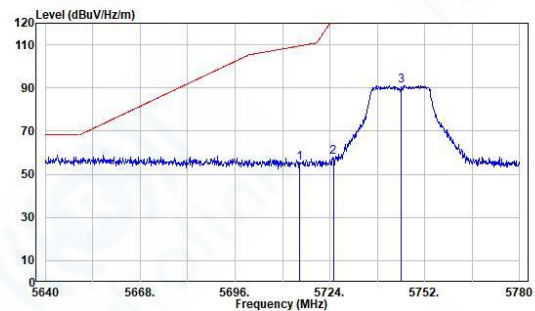
11n20_TX_CH_149_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 149
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit
MHz	dBuV/H	dBuV/H	dB
1 5715.000	31.62	54.75	109.43 -54.68 Peak
2 5725.000	39.29	62.54	122.30 -59.76 Peak
3 5745.000	75.72	99.23	150.00 -50.77 Peak

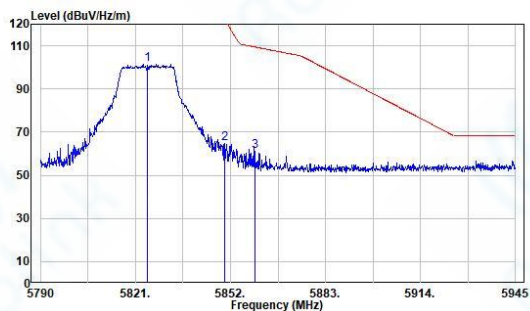
11n20_TX_CH_149_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 149
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit
MHz	dBuV/H	dBuV/H	dB
1 5715.000	31.92	55.05	109.43 -54.36 Peak
2 5725.000	34.85	58.10	122.30 -64.20 Peak
3 5745.000	67.67	91.18	150.00 -50.82 Peak

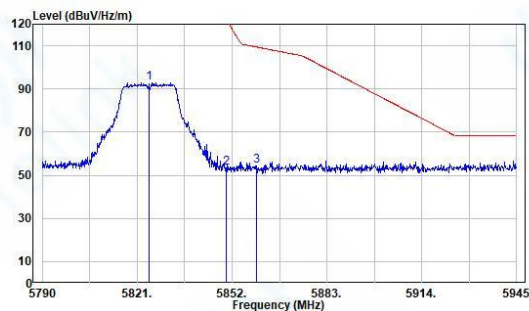
11n20_TX_CH_165_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 165
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5825.000	79.07	101.53	150.00	-48.47	Peak
2	5850.000	42.69	64.71	150.00	-85.29	Peak
3	5860.000	39.14	61.02	109.42	-48.40	Peak

11n20_TX_CH_165_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n20_TX_CH 165
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5825.000	70.59	93.05	150.00	-56.95	Peak
2	5850.000	31.26	53.28	150.00	-96.72	Peak
3	5860.000	32.50	54.38	109.42	-55.04	Peak

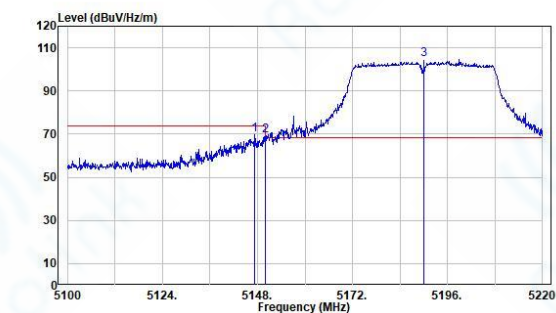


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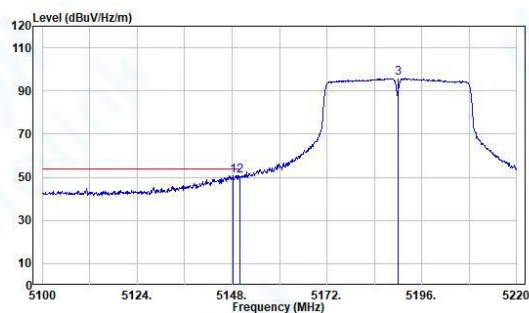
11n40_TX_CH_38_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 38
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5147.280	46.60	69.68	74.00	-4.32	Peak
2 5149.980	46.19	69.25	74.00	-4.75	Peak
3 5190.000	81.39	104.51	68.20	36.31	Peak

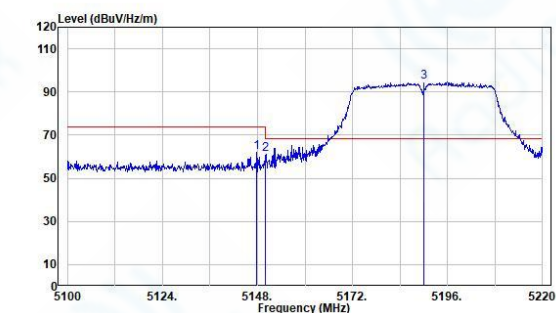
11n40_TX_CH_38_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 38
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5148.240	27.84	50.91	54.00	-3.09	Average
2 5149.980	27.88	50.94	54.00	-3.06	Average
3 5190.000	72.69	95.81	68.20	27.61	Average

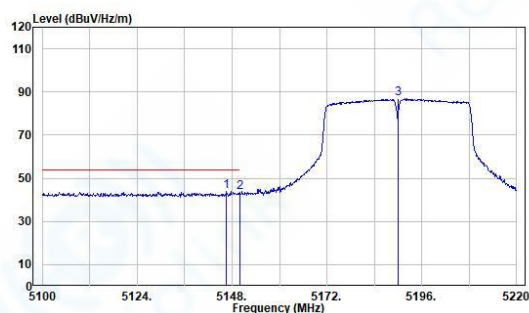
11n40_TX_CH_38_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 38
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5147.880	39.08	62.15	74.00	-11.85	Peak
2 5149.980	37.92	60.98	74.00	-13.02	Peak
3 5190.000	71.58	94.70	68.20	26.50	Peak

11n40_TX_CH_38_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 38
Power : 1500
Rate : MCS0
Note : RL20260830001E

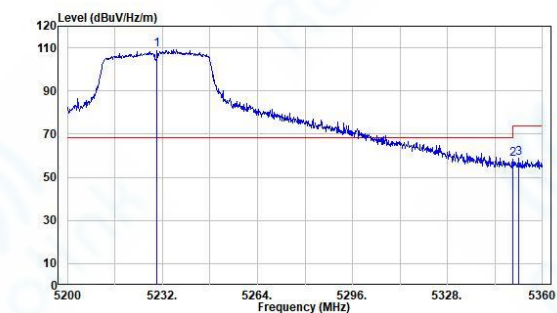
	Read	Read	Limit	Over	
Freq	Level	Level	Line	Limit	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1 5146.560	20.71	43.78	54.00	-10.22	Average
2 5149.980	20.51	43.57	54.00	-10.43	Average
3 5190.000	63.67	86.79	68.20	18.59	Average

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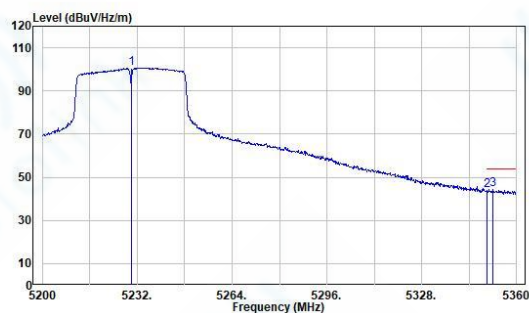
11n40_TX_CH_46_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 46
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Limit	Over	
Level	Level	Line	Limit Remark
Freq	Level	Level	Line
MHz	dBuV/H	dBuV/H	dBuV/H
1 5230.000	85.51	109.11	68.20 40.91 Peak
2 5350.020	33.72	58.27	74.00 -15.73 Peak
3 5352.160	34.27	58.77	74.00 -15.23 Peak

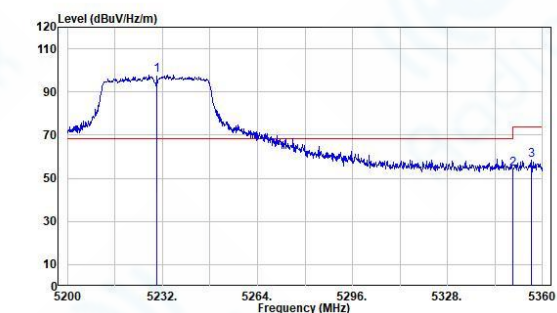
11n40_TX_CH_46_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 46
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Limit	Over	
Level	Level	Line	Limit Remark
Freq	Level	Level	Line
MHz	dBuV/H	dBuV/H	dBuV/H
1 5230.000	77.10	100.70	68.20 32.50 Average
2 5350.020	19.21	43.76	54.00 -10.24 Average
3 5352.000	19.96	44.47	54.00 -9.53 Average

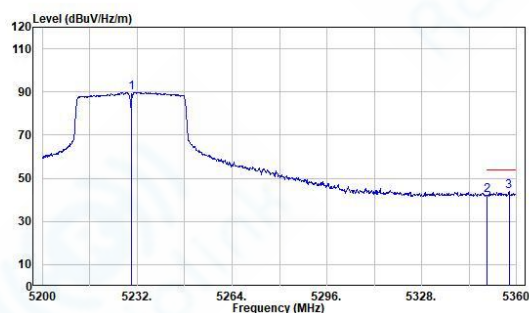
11n40_TX_CH_46_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 46
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Limit	Over	
Level	Level	Line	Limit Remark
Freq	Level	Level	Line
MHz	dBuV/H	dBuV/H	dBuV/H
1 5230.000	74.16	97.76	68.20 29.56 Peak
2 5350.020	29.91	54.46	74.00 -19.54 Peak
3 5356.160	34.20	58.62	74.00 -15.38 Peak

11n40_TX_CH_46_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 46
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Limit	Over	
Level	Level	Line	Limit Remark
Freq	Level	Level	Line
MHz	dBuV/H	dBuV/H	dBuV/H
1 5230.000	66.24	89.84	68.20 21.64 Average
2 5350.020	17.64	42.19	54.00 -11.81 Average
3 5357.440	19.37	43.78	54.00 -10.22 Average

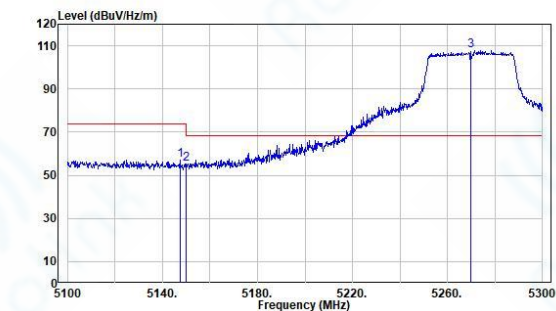


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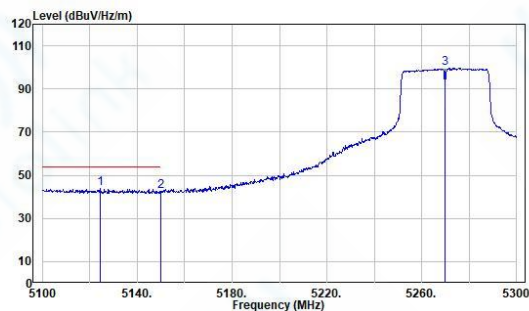
11n40_TX_CH_54_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 54
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5147.400	34.12	57.20	74.00	-16.80	Peak
2	5149.980	32.28	55.34	74.00	-18.66	Peak
3	5270.000	83.72	107.69	68.20	39.49	Peak

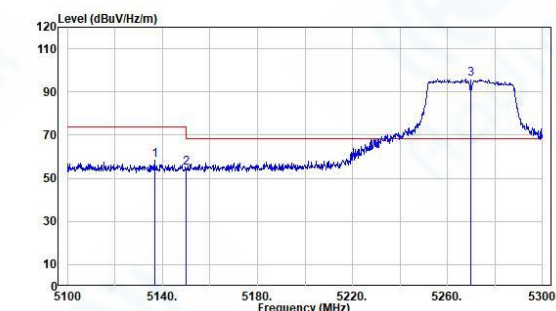
11n40_TX_CH_54_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 54
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5147.400	20.60	43.73	54.00	-10.27	Average
2	5149.980	19.51	42.57	54.00	-11.43	Average
3	5270.000	75.70	99.67	68.20	31.47	Average

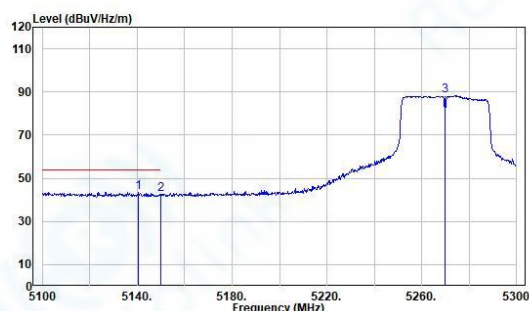
11n40_TX_CH_54_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 54
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5136.600	35.18	58.28	74.00	-15.72	Peak
2	5149.980	31.94	55.00	74.00	-19.00	Peak
3	5270.000	71.91	95.68	68.20	27.68	Peak

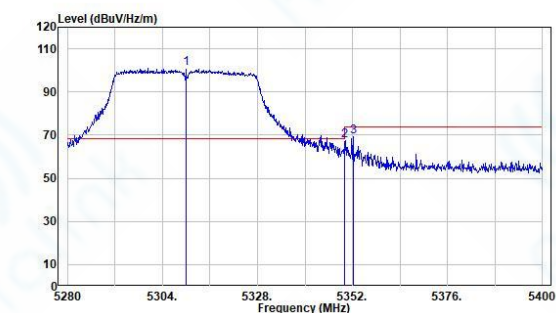
11n40_TX_CH_54_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 54
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5140.600	20.50	43.60	54.00	-10.40	Average
2	5149.980	19.65	42.71	54.00	-11.29	Average
3	5270.000	64.28	88.25	68.20	20.05	Average

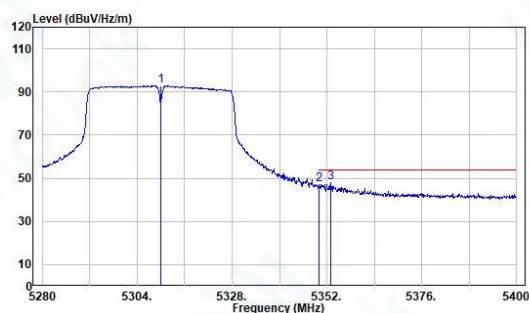
11n40_TX_CH_62_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 62
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit
MHz	dBuV/H	dBuV/H	dB
1 5310.000	76.81	100.98	60.20 32.78 Peak
2 5350.020	42.91	67.46	74.00 -6.54 Peak
3 5352.120	44.79	69.29	74.00 -4.71 Peak

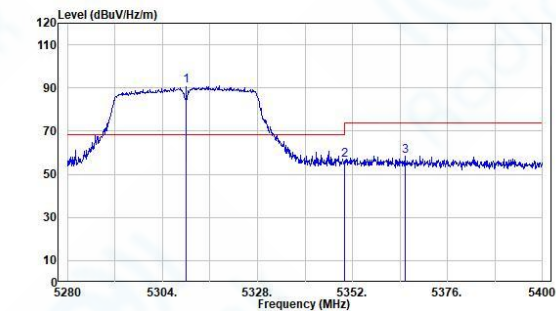
11n40_TX_CH_62_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 62
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit
MHz	dBuV/H	dBuV/H	dB
1 5310.000	68.72	92.89	60.20 24.69 Average
2 5350.020	22.37	46.92	54.00 -7.08 Average
3 5352.120	23.56	48.05	54.00 -5.95 Average

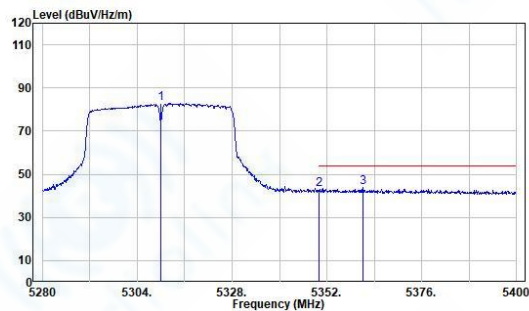
11n40_TX_CH_62_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 62
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit
MHz	dBuV/H	dBuV/H	dB
1 5310.000	66.70	90.87	60.20 22.67 Peak
2 5350.020	32.02	56.57	74.00 -17.43 Peak
3 5352.120	34.35	58.61	74.00 -15.39 Peak

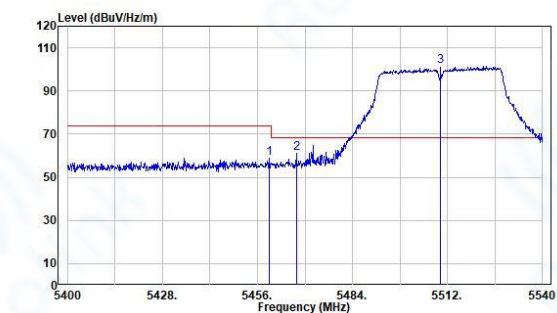
11n40_TX_CH_62_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 62
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Level	Limit	Over
Freq	Level	Line	Limit
MHz	dBuV/H	dBuV/H	dB
1 5310.000	58.53	82.70	60.20 14.50 Average
2 5350.020	18.26	42.81	54.00 -11.19 Average
3 5352.120	19.59	43.94	54.00 -10.06 Average

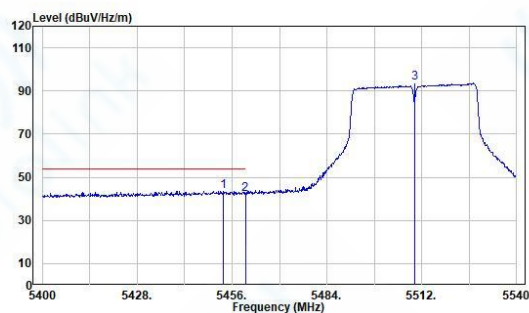
11n40_TX_CH_102_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 102
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit	Over	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5459.360	34.53	59.03	74.00	-14.97	Peak
2	5467.480	36.67	61.28	68.20	-6.92	Peak
3	5510.000	76.32	101.27	68.20	33.07	Peak

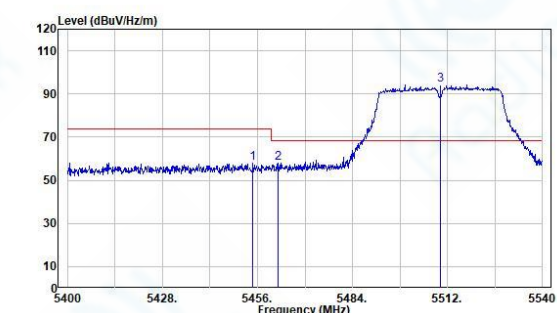
11n40_TX_CH_102_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 102
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit	Over	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5453.480	19.24	43.66	54.00	-10.34	Average
2	5459.920	17.79	42.30	54.00	-11.70	Average
3	5510.000	68.67	93.62	68.20	25.42	Average

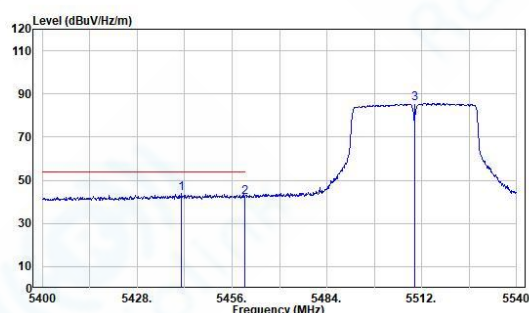
11n40_TX_CH_102_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 102
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit	Over	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5454.600	33.62	58.07	74.00	-15.93	Peak
2	5462.020	33.30	57.85	68.20	-10.35	Peak
3	5510.000	69.09	94.04	68.20	25.84	Peak

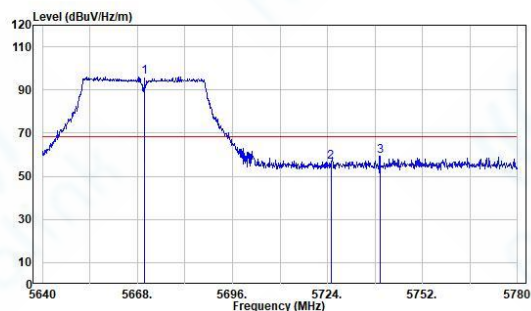
11n40_TX_CH_102_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 102
Power : 1500
Rate : MCS0
Note : RL20260830001E

	Freq	Read Level	Level	Limit	Over	Remark
	MHz	dBuV/H	dBuV/H	dBuV/H	dB	
1	5441.160	19.58	43.82	54.00	-10.18	Average
2	5459.780	17.67	42.18	54.00	-11.82	Average
3	5510.000	60.65	85.60	68.20	17.40	Average

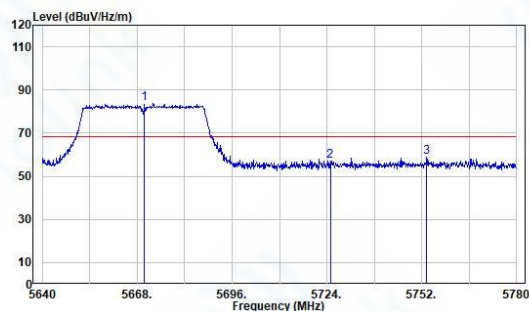
11n40_TX_CH_134_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 134
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5670.000	72.87	96.22	68.20	28.02 Peak
2 5725.000	33.58	56.83	68.20	-11.37 Peak
3 5739.540	35.89	59.33	68.20	-8.87 Peak

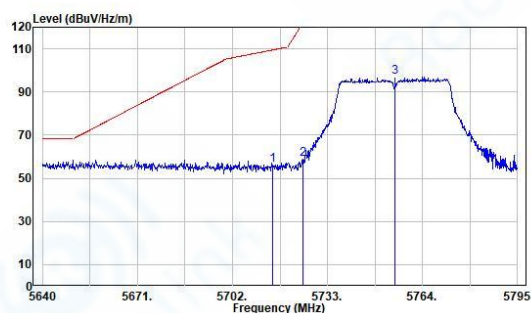
11n40_TX_CH_134_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 134
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5670.000	60.28	83.63	68.20	15.43 Peak
2 5725.000	33.58	56.83	68.20	-11.37 Peak
3 5739.540	35.30	58.82	68.20	-9.38 Peak

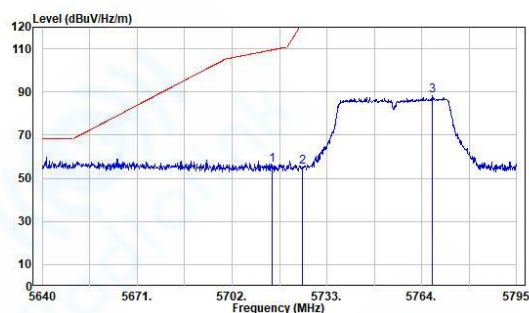
11n40_TX_CH_151_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 151
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5715.000	33.22	56.35	109.43	-53.08 Peak
2 5725.000	35.42	58.67	122.30	-63.63 Peak
3 5755.000	73.55	97.05	150.00	-52.95 Peak

11n40_TX_CH_151_Vertical-Peak



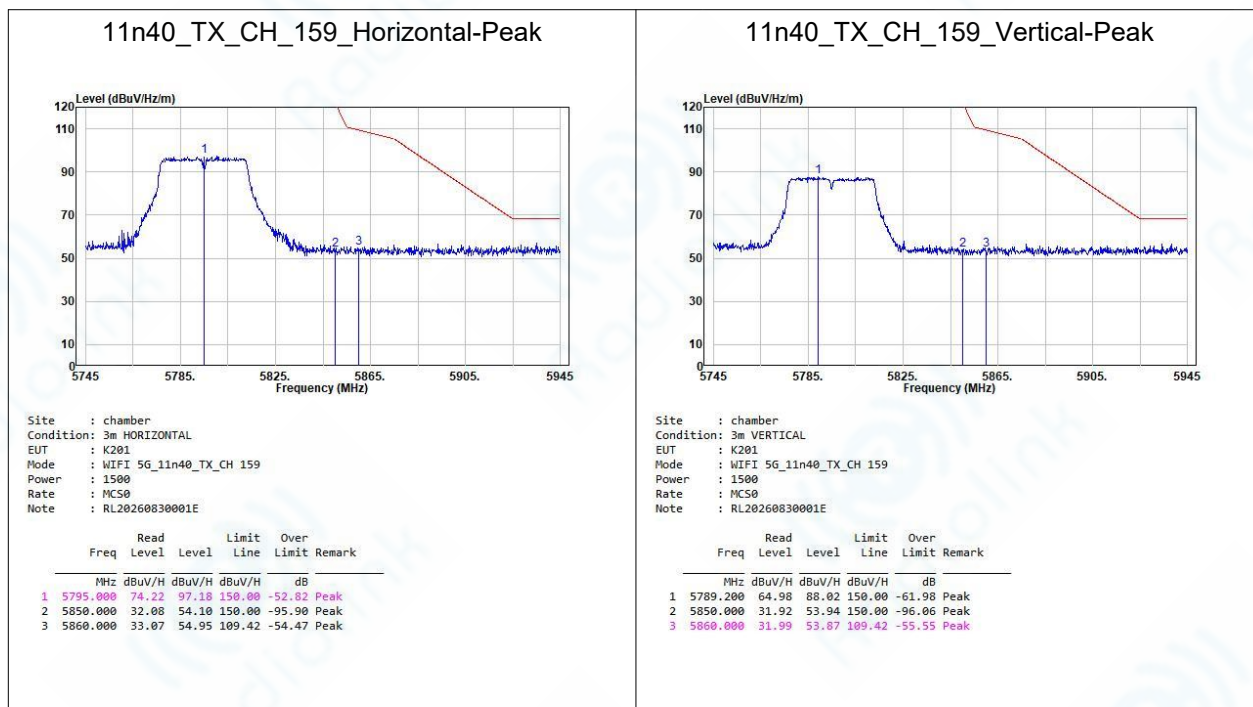
Site : chamber
Condition: 3m VERTICAL
EUT : K201
Mode : WIFI 5G_11n40_TX_CH 151
Power : 1500
Rate : MCS0
Note : RL20260830001E

Read	Read	Limit	Over	
Level	Level	Line	Limit	Remark
Freq	Level	Level	Line	Remark
MHz	dBuV/H	dBuV/H	dBuV/H	dB
1 5715.000	32.81	55.94	109.43	-53.49 Peak
2 5725.000	31.91	55.16	122.30	-67.14 Peak
3 5767.410	64.81	88.15	150.00	-61.85 Peak

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Note:

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.). The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including Ant.Factor, Cable Factor etc.)

7.5 Duty Cycle

Test Requirement

ANSI C63.10 (2015) Section 12.2

Test Method:

ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 12.2

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

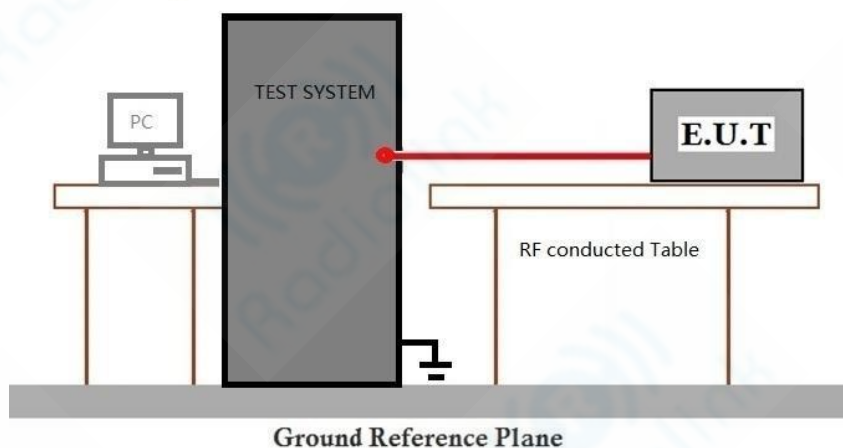
Humidity: 40.0 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40M, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.6 99% Bandwidth

Test Requirement ANSI C63.10 (2015) Section 12.4.2
Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Section 12.5.3

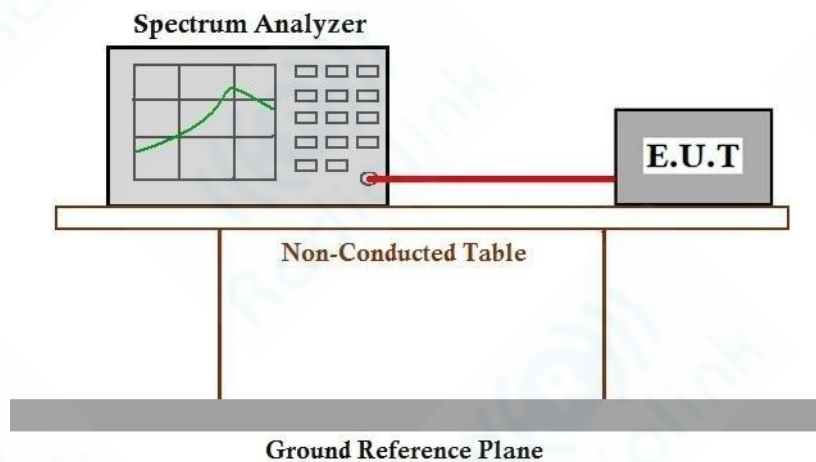
7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40M, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 12.5.2

7.7.1 E.U.T. Operation

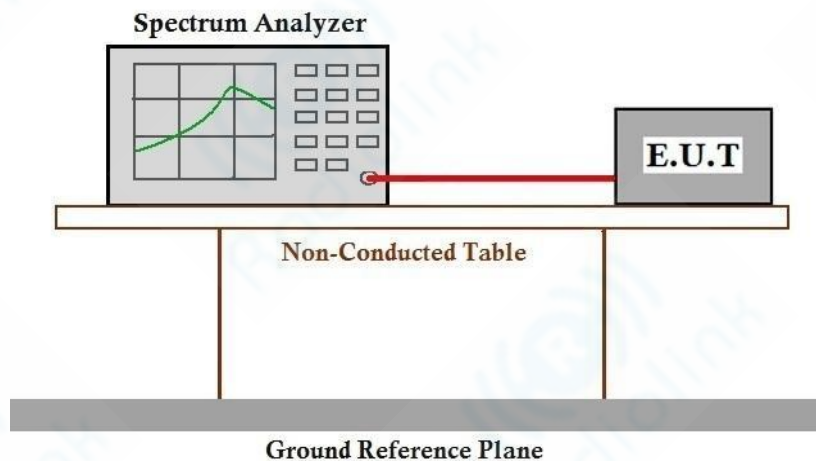
Operating Environment:

Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40M, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 12.5.1

Limit:

Frequency band(MHz)	Limit
5725-5850	≥ 500 kHz

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

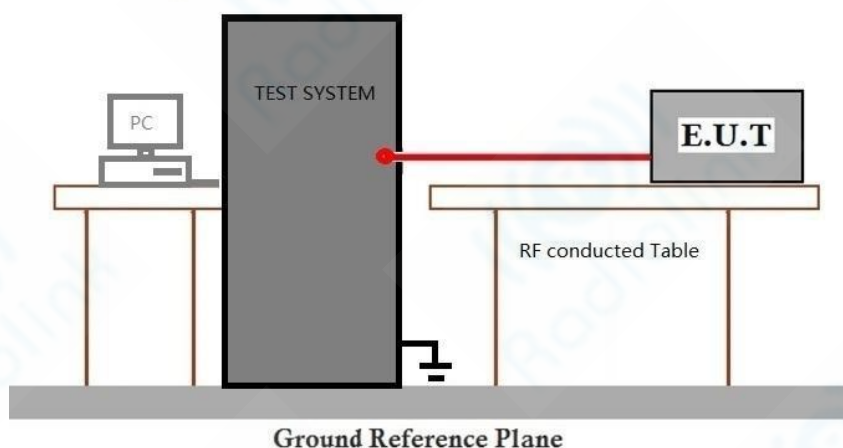
Humidity: 40.0 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40M, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.9 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 12.4

FCC Limit:

Frequency band(MHz)	Limit
5150-5250	$\leq 1\text{W}(30\text{dBm})$ for master device
	$\leq 250\text{mW}(24\text{dBm})$ for client device
5250-5350	$\leq 250\text{mW}(24\text{dBm})$ or $11\text{dBm} + 10\log B^*$
5470-5725	$\leq 250\text{mW}(24\text{dBm})$ or $11\text{dBm} + 10\log B^*$
5725-5850	$\leq 1\text{W}(30\text{dBm})$
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

IC Limit:

Frequency band(MHz)	Limit
5150-5250	e.i.r.p. $\leq 200\text{mW}(23\text{dBm}) + 10\log B^*$, whichever is less
5250-5350	Conducted power $\leq 250\text{mW}(24\text{dBm})$ or $11\text{dBm} + 10\log B^*$, whichever is less e.i.r.p. $\leq 1\text{W}(30\text{dBm})$ or $17 + 10\log B^*$, whichever is less
5470-5725	Conducted power $\leq 250\text{mW}(24\text{dBm})$ or $11\text{dBm} + 10\log B^*$, whichever is less e.i.r.p. $\leq 1\text{W}(30\text{dBm})$ or $17 + 10\log B^*$, whichever is less
5725-5850	Conducted power $\leq 1\text{W}(30\text{dBm})$
Remark:	* Where B is the 99% emission bandwidth in MHz.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

Humidity: 40.0 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

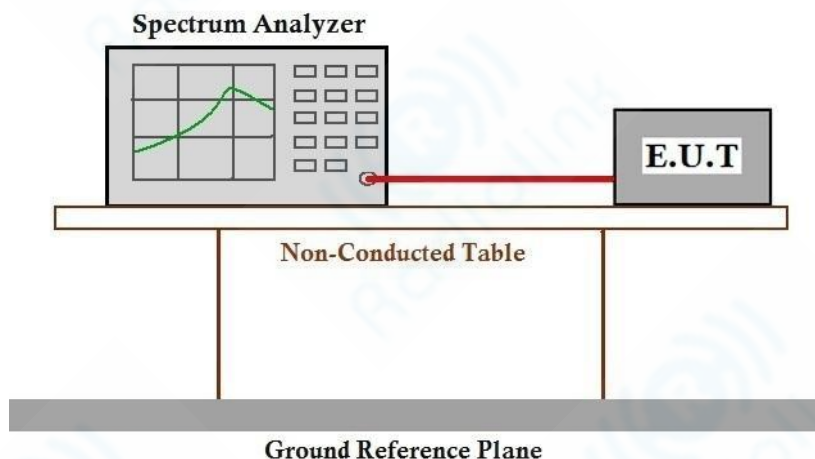
Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40M, Only the data of worst case is recorded in the report.

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7.9.3 Test Setup Diagram



Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details



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7.10 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 12.6

FCC Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

IC Limit:

Frequency band(MHz)	Limit
5150-5250	e.i.r.p. spectral density ≤ 10dBm/MHz
5250-5350	≤ 11dBm/MHz
5470-5725	≤ 11dBm/MHz
5725-5850	≤ 30dBm/500kHz

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

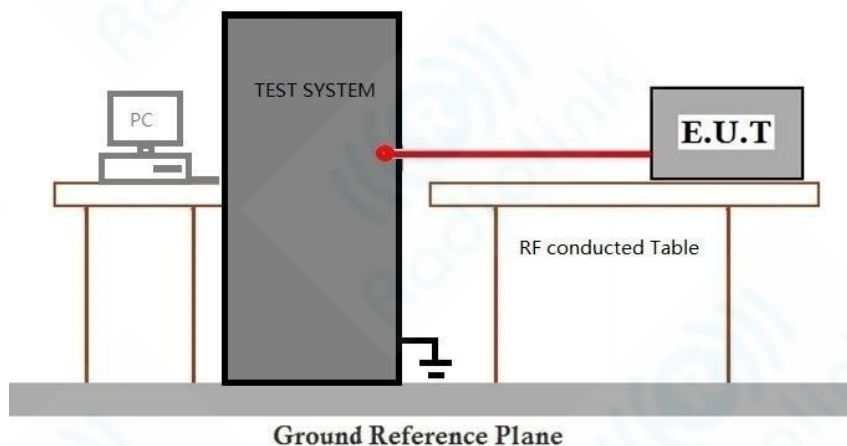
Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40M, Only the data of worst case is recorded in the report.



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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

Please Refer to Appendix for Details



7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Section 6.8

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

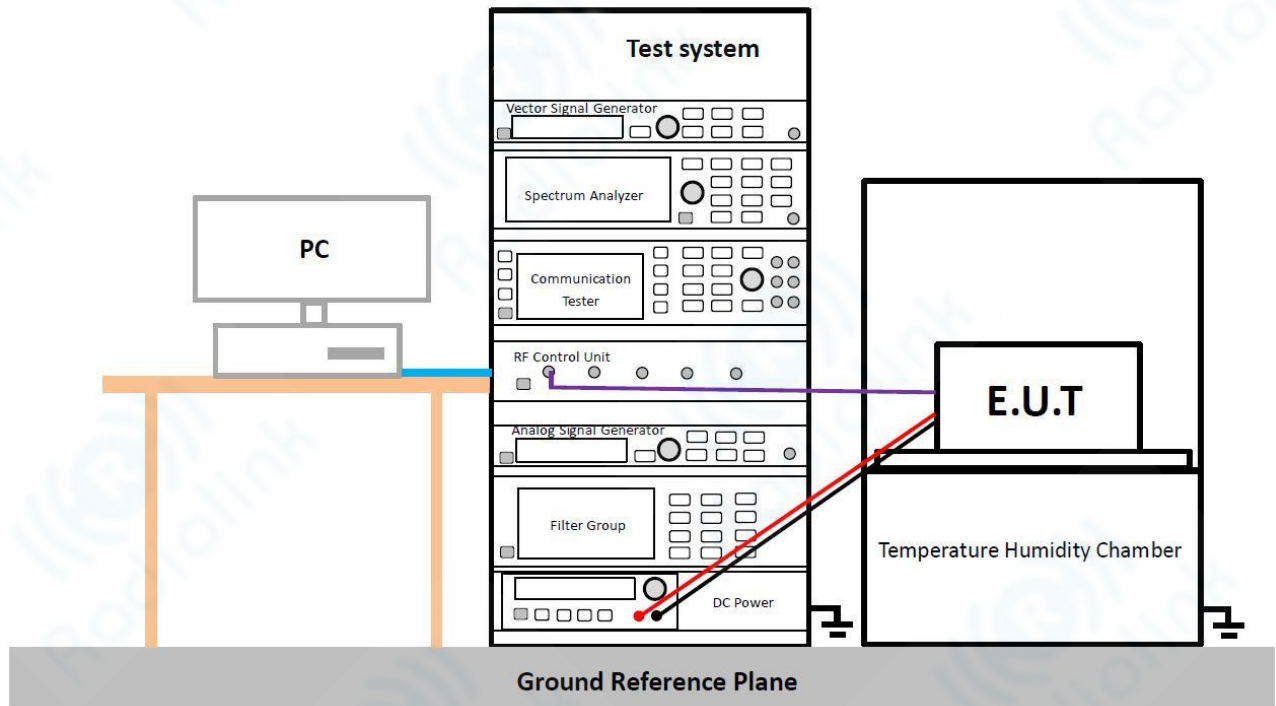
Humidity: 40.0 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40M, Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix A_Setup Photo (1.4)



9 Appendix

1. Duty Cycle

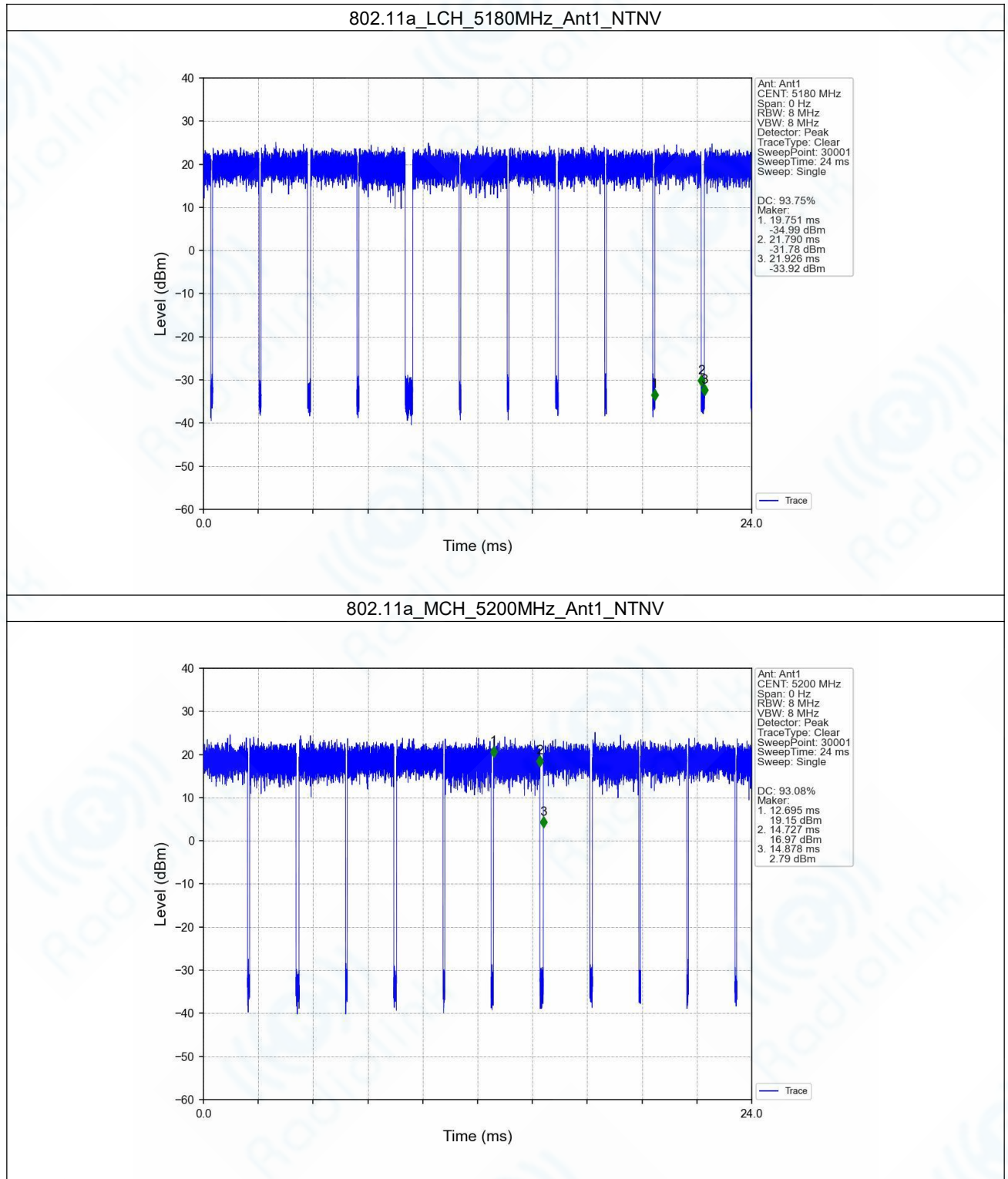
1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.039	2.175	93.75	0.28	3.21
		5200	2.032	2.183	93.08	0.31	3.62
		5240	2.034	2.259	90.04	0.46	4.87
		5745	2.033	2.166	93.86	0.28	2.82
		5785	2.032	2.259	89.95	0.46	4.16
		5825	2.032	2.202	92.28	0.35	3.51
802.11n (HT20)	SISO	5180	1.903	2.269	83.87	0.76	12.21
		5200	1.893	2.120	89.29	0.49	4.38
		5240	1.893	2.119	89.33	0.49	4.38
		5745	1.893	2.355	80.38	0.95	3.51
		5785	1.892	2.101	90.05	0.46	4.47
		5825	1.892	2.373	79.73	0.98	4.15
802.11n (HT40)	SISO	5190	0.932	1.110	83.96	0.76	9.08
		5230	0.933	1.726	54.06	2.67	39.02
		5755	0.932	1.101	84.65	0.72	5.95
		5795	0.933	1.168	79.88	0.98	9.65

1.2 Test Graph

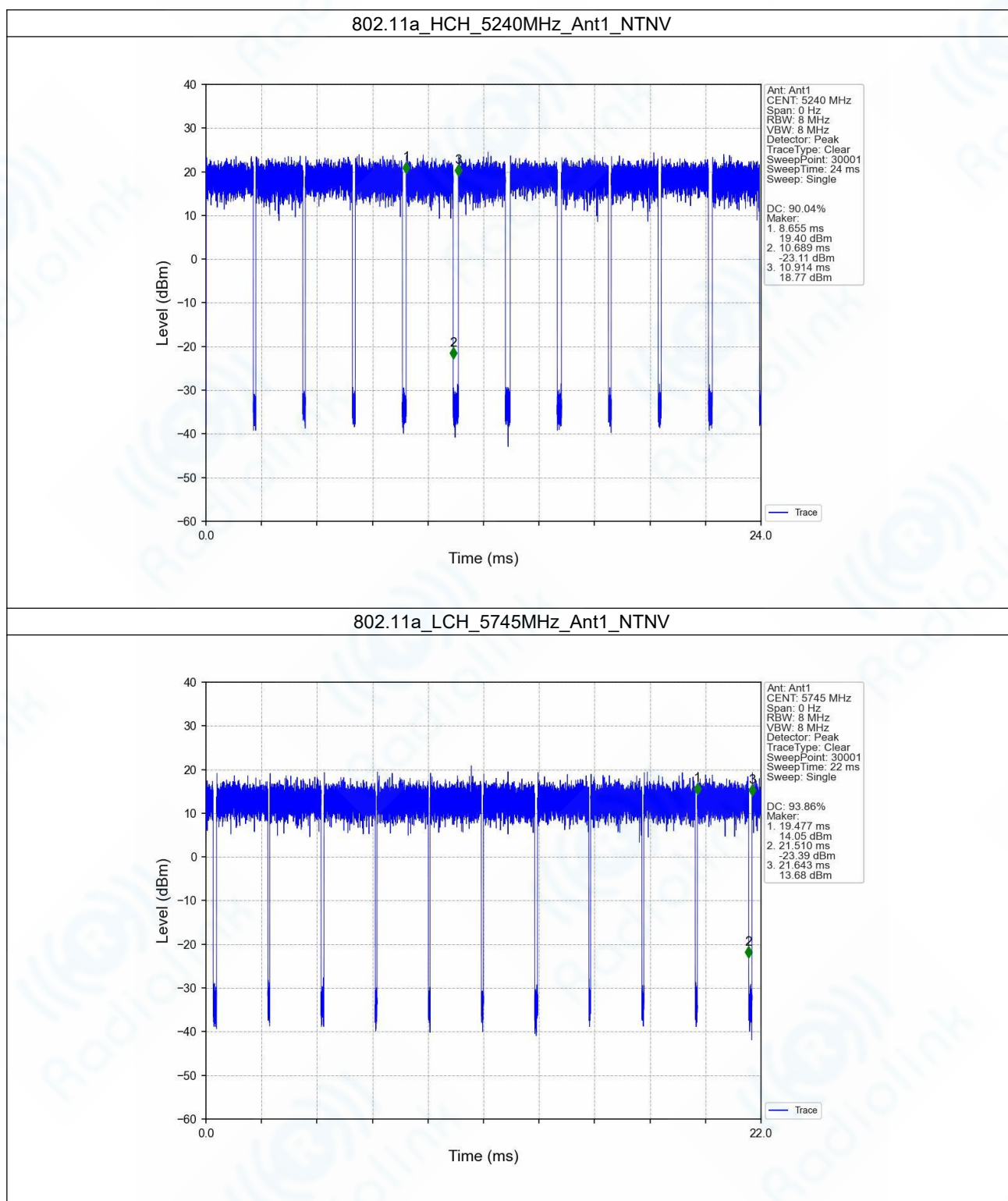
1.2.1 Ant1



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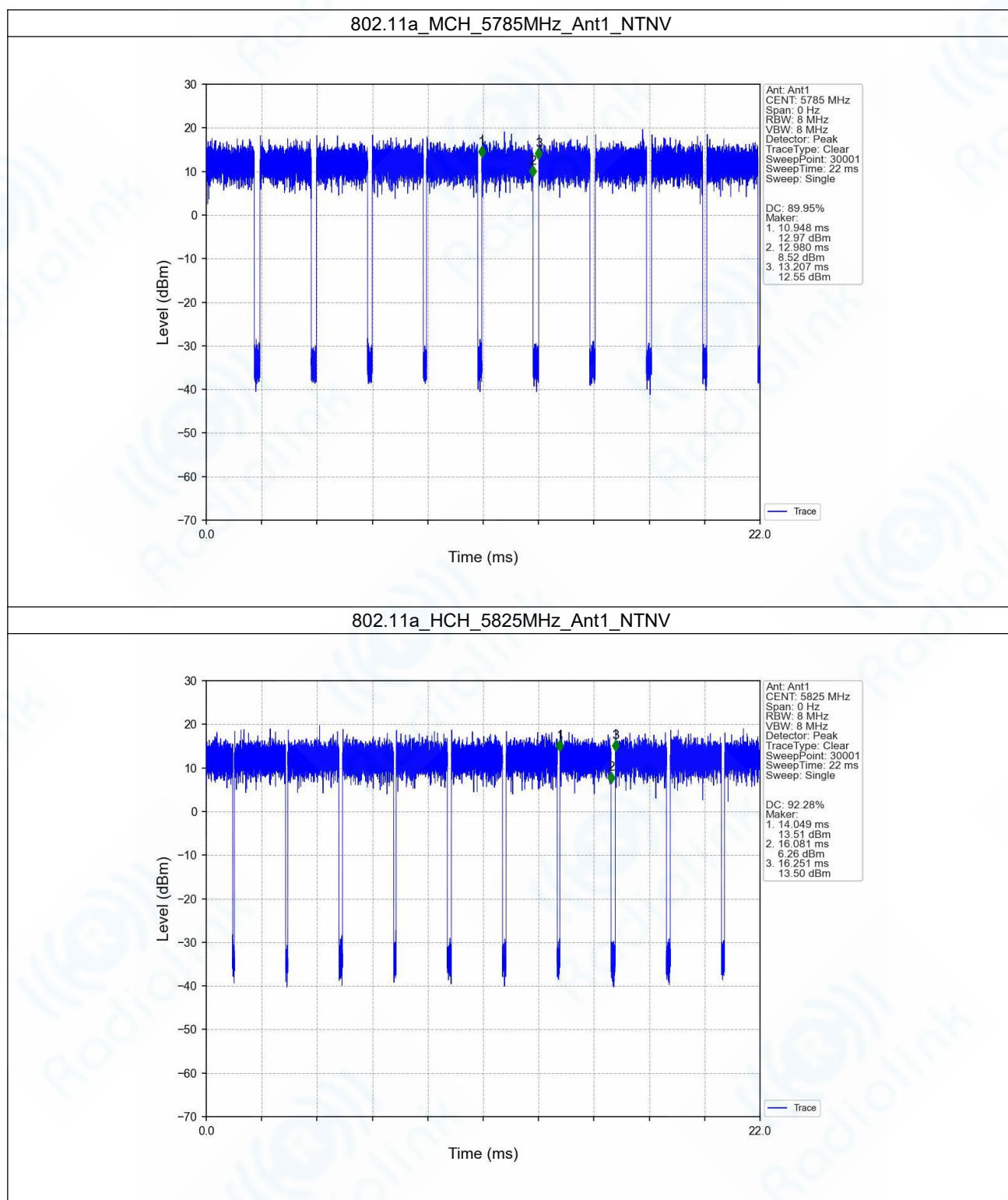
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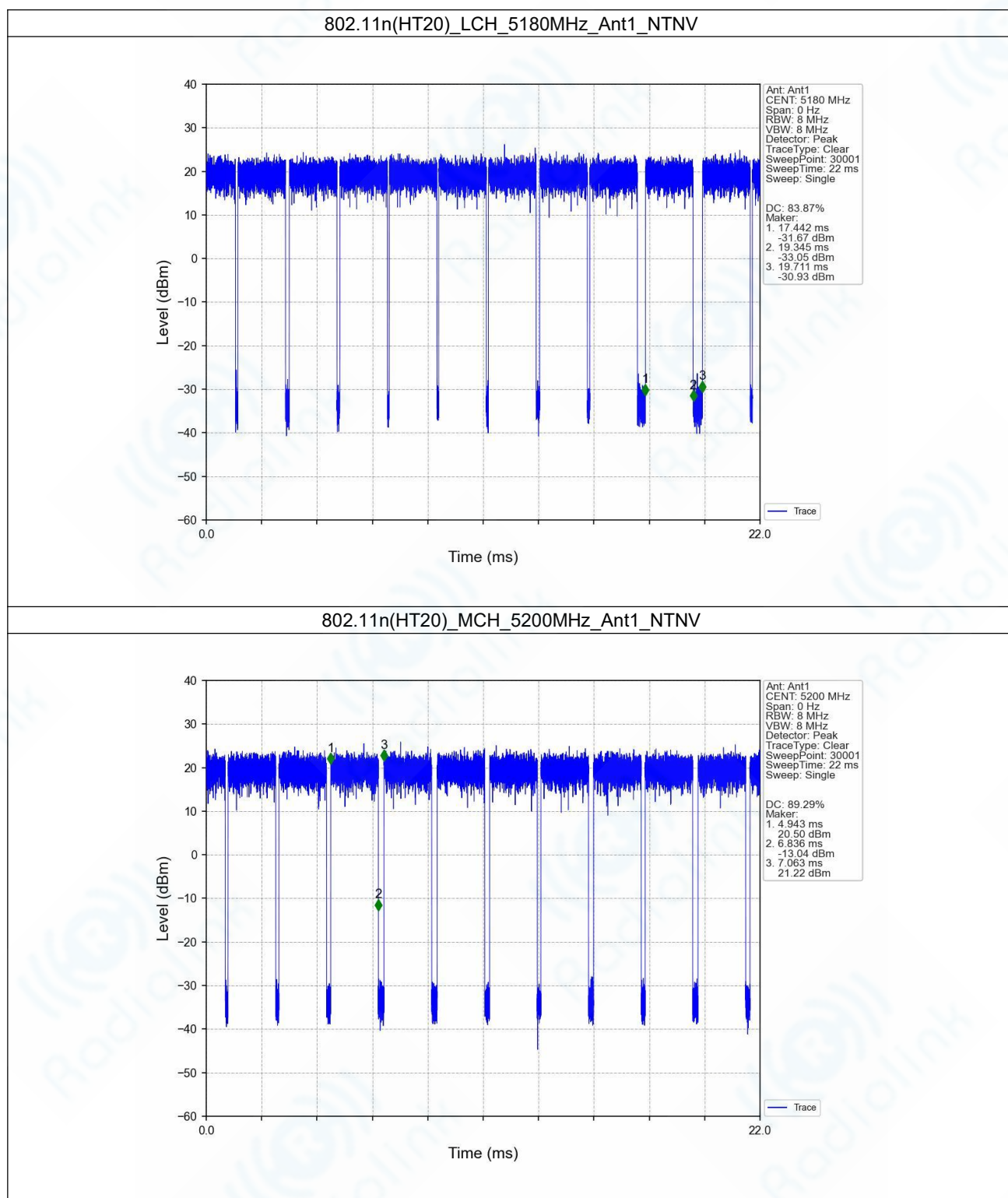


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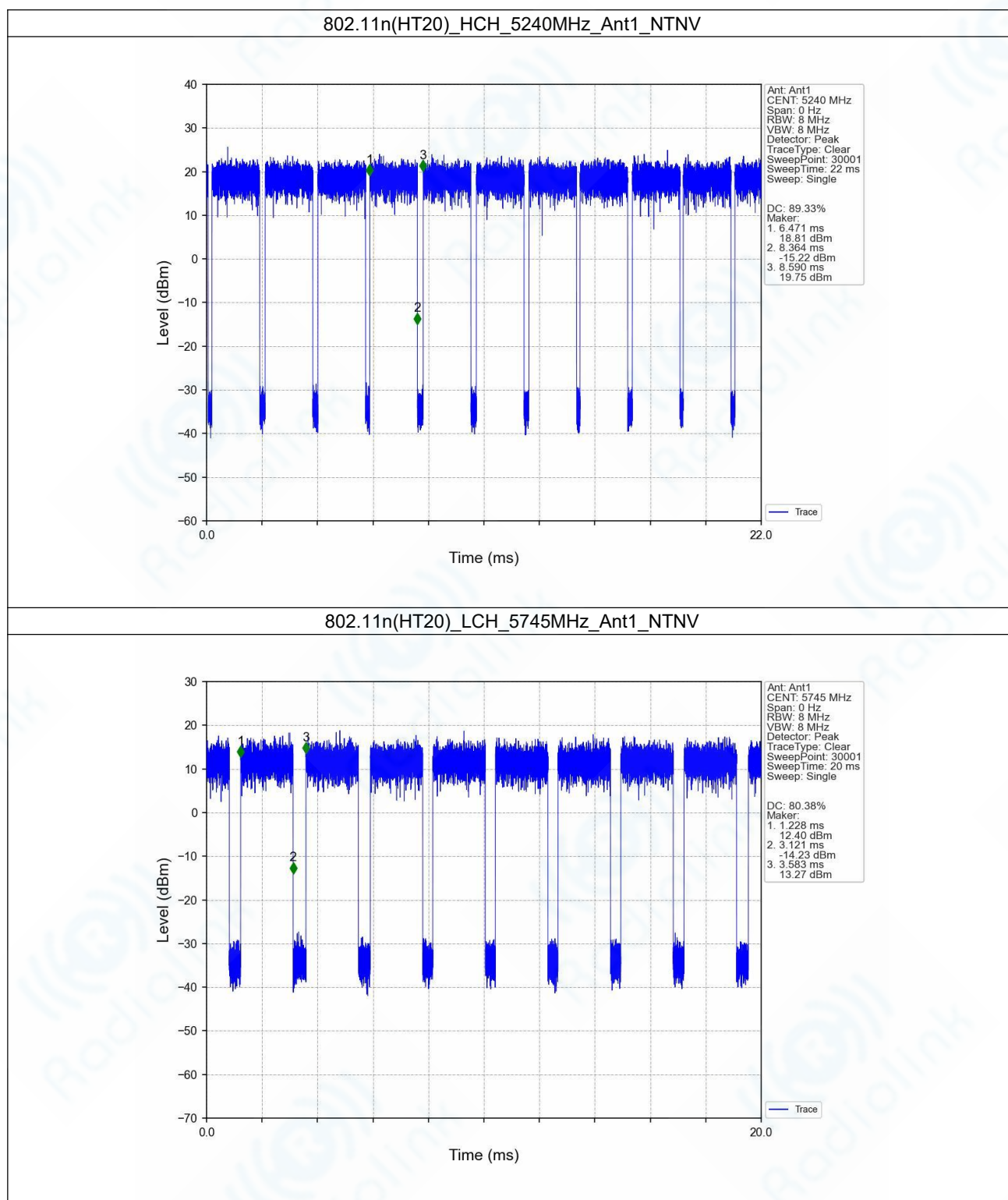




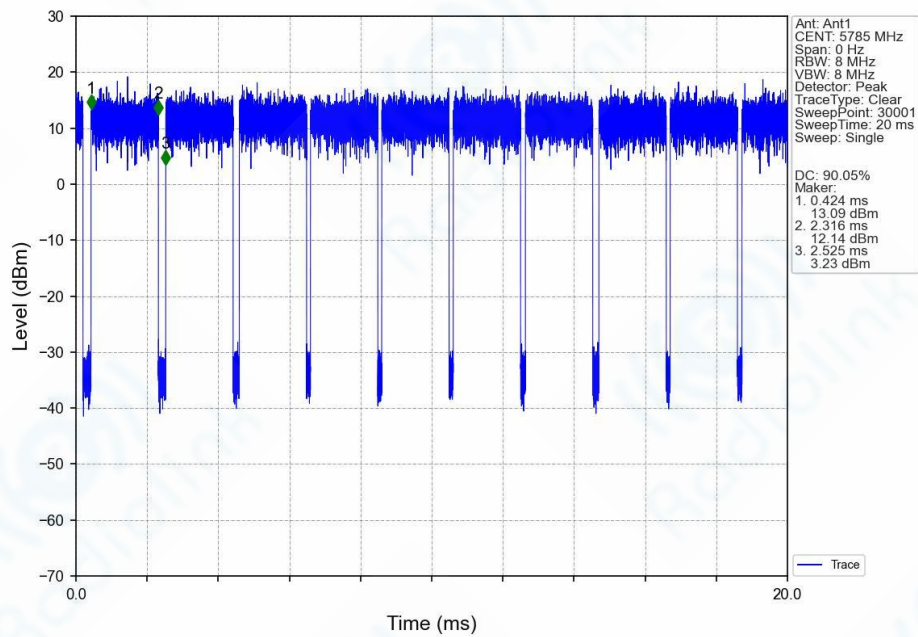
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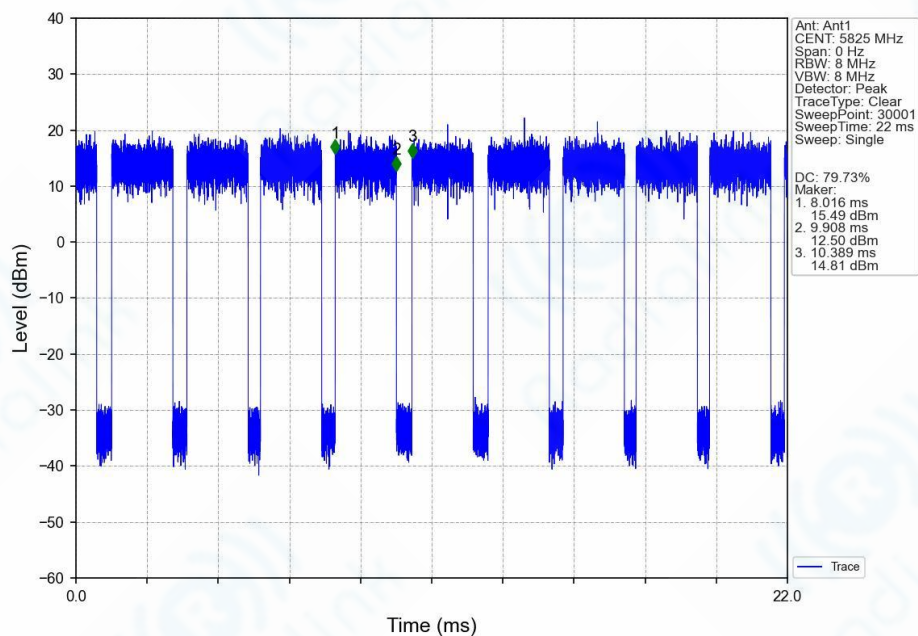
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

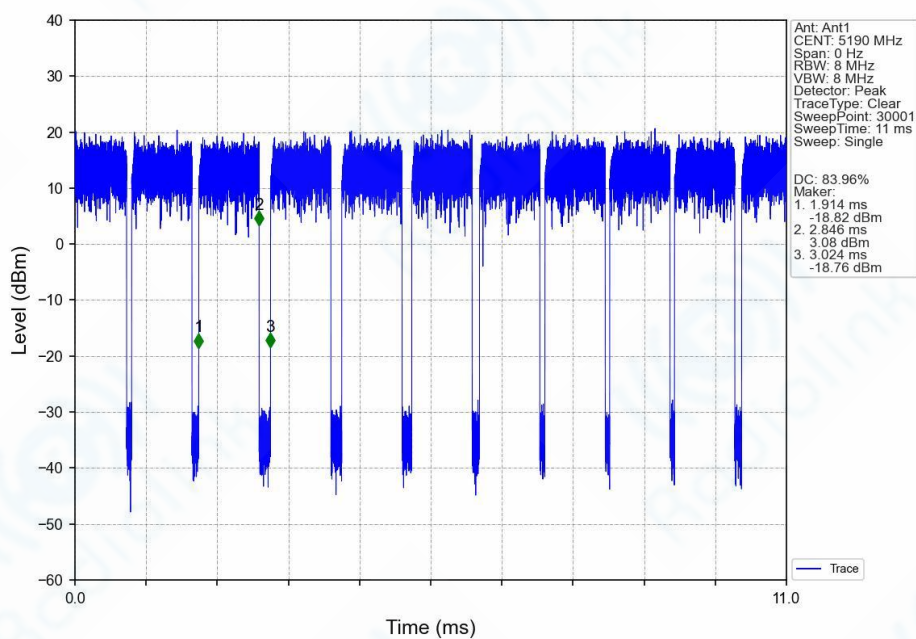


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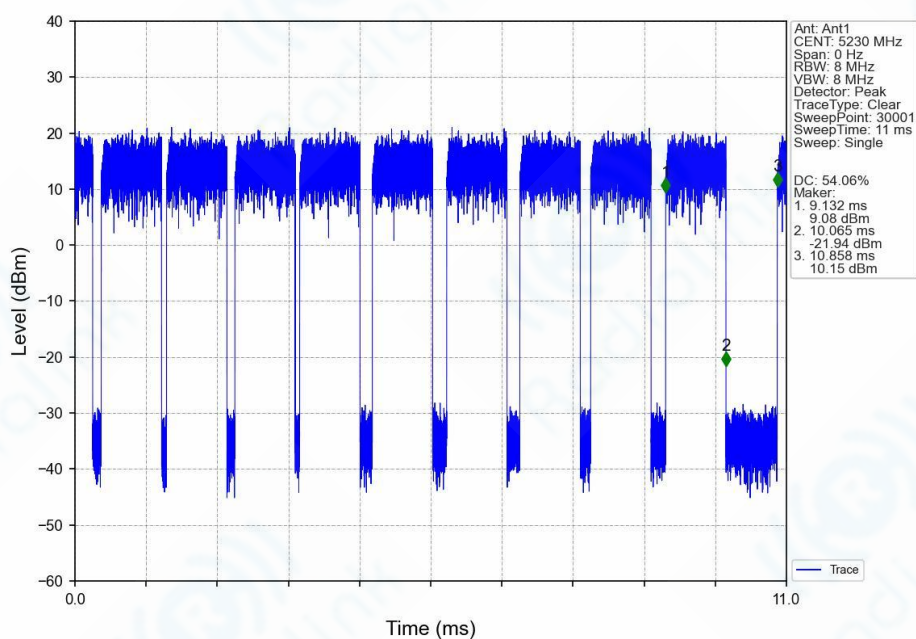
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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