

802.11n_HT20_Lowest Channel (5 180 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 145.83 ¹⁾	H	49.60	33.29	-27.27	-	55.62	74.00	18.38
10 387.38	V	54.00	38.83	-44.55	-	48.28	68.20	19.92
15 545.13 ¹⁾	H	53.80	38.21	-42.44	-	49.57	74.00	24.43
Average Data								
5 145.83 ¹⁾	H	39.62	33.29	-27.27	0.42	46.06	54.00	7.94

802.11n_HT20_Middle Channel (5 200 MHz)

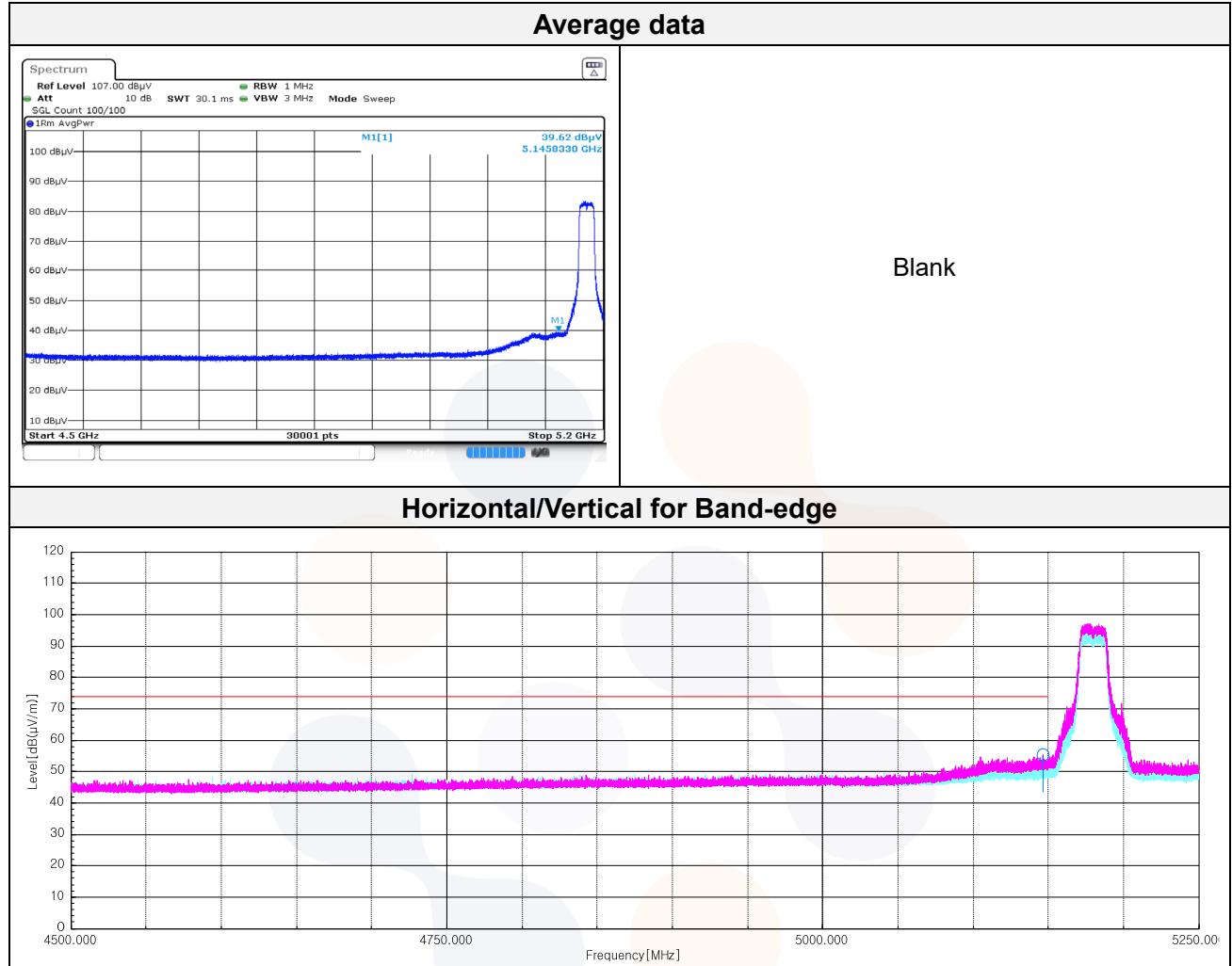
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 423.42	V	54.20	39.05	-44.53	-	48.72	68.20	19.48
15 614.13 ¹⁾	V	54.40	37.94	-42.43	-	49.91	74.00	24.09
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT20_Highest Channel (5 240 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 522.32	V	54.80	39.00	-44.53	-	49.27	68.20	18.93
15 709.97 ¹⁾	H	54.40	38.10	-42.42	-	50.08	74.00	23.92
Average Data								
No spurious emissions were detected within 20 dB of the limit								

In order to simplify the report, attached plots were only the lowest margin condition

802.11n_HT20_Lowest Channel (5 180 MHz)

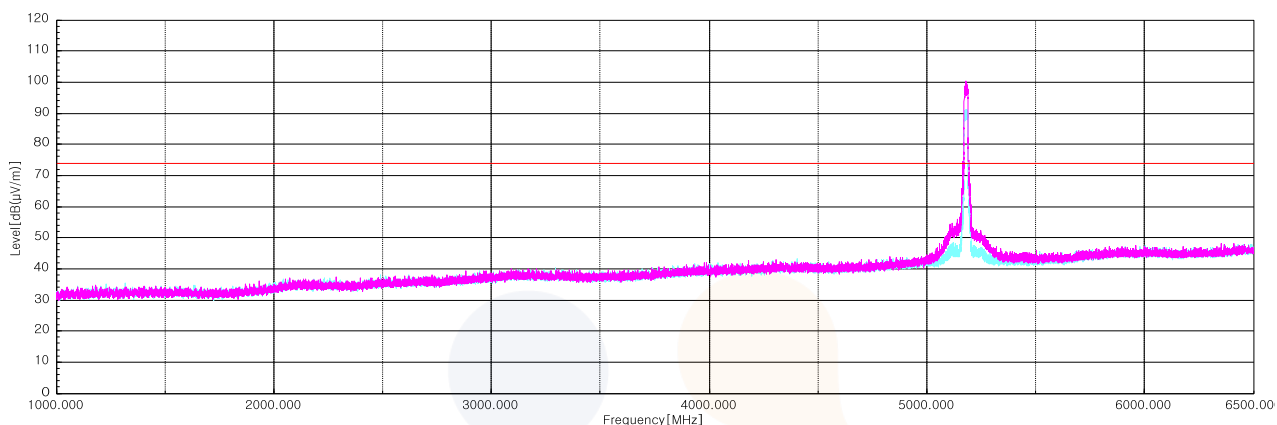


Plot of Harmonics and Spurious Emissions

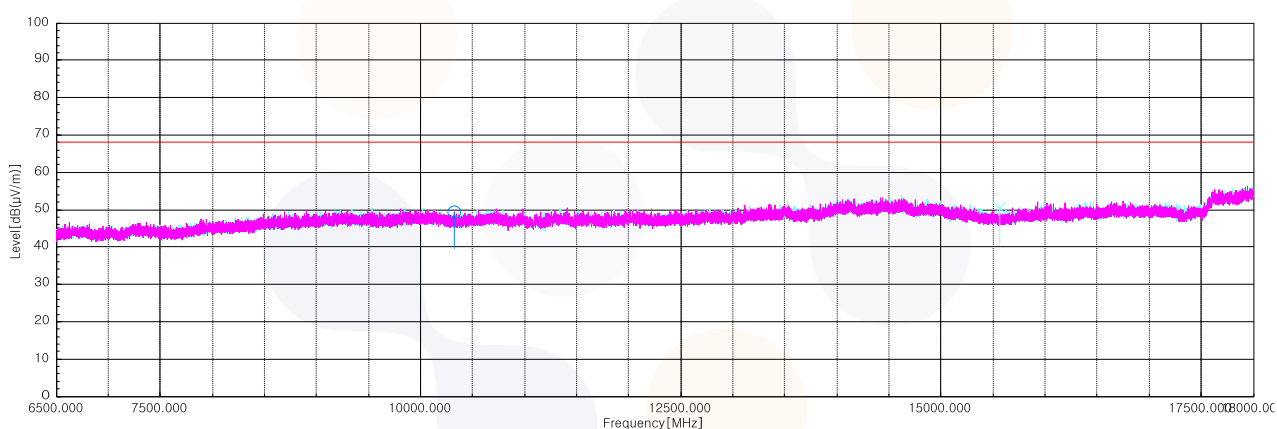
In order to simplify the report, attached plots were only the lowest margin condition

802.11a_UNII 1_Lowest Channel (5 180 MHz)

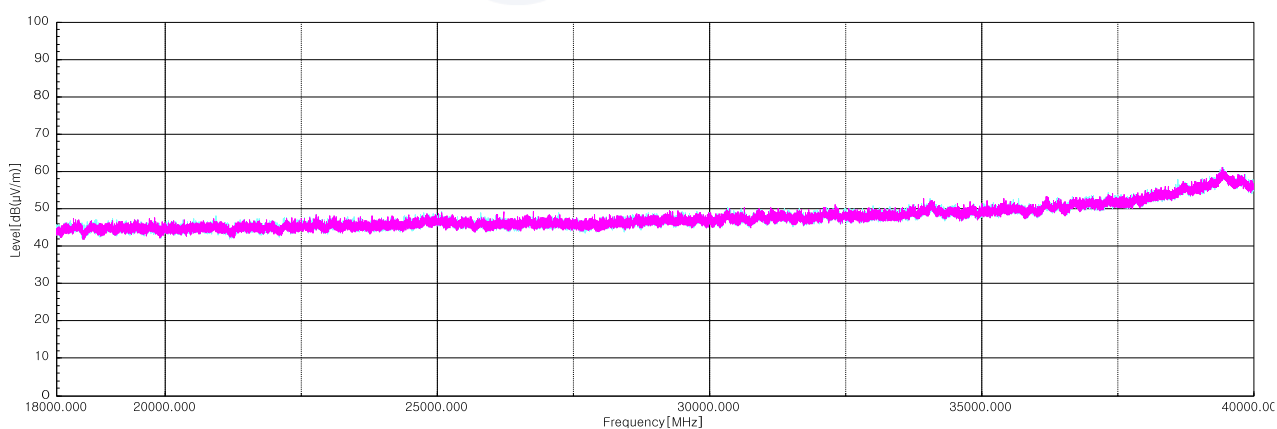
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



UNII 2A

802.11a_Lowest Channel (5 260 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 480.53	H	55.80	39.00	-44.51	-	50.29	68.20	17.91
15 764.40 ¹⁾	H	54.90	38.10	-42.38	-	50.62	74.00	23.38
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11a_Middle Channel (5 280 MHz)

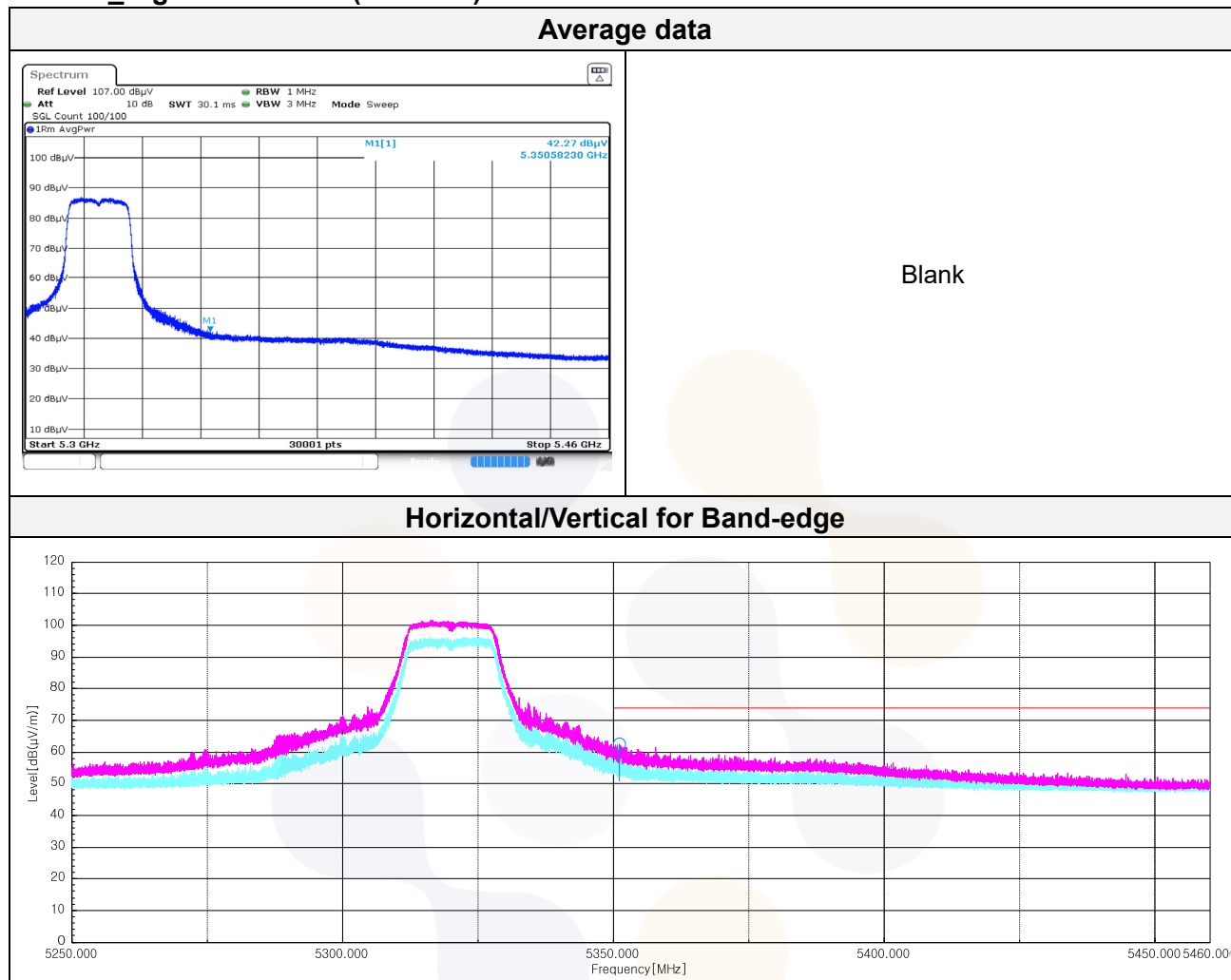
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 594.77	H	55.10	39.19	-44.63	-	49.66	68.20	18.54
15 806.18 ¹⁾	H	55.00	38.21	-42.26	-	50.95	74.00	23.05
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11a_Highest Channel (5 320 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 350.58 ¹⁾	H	56.30	33.00	-26.92	-	62.38	74.00	11.62
10 682.93 ¹⁾	H	54.80	39.37	-44.74	-	49.43	74.00	24.57
15 940.35 ¹⁾	V	54.30	38.20	-41.88	-	50.62	74.00	23.38
Average Data								
5 350.58 ¹⁾	H	42.27	33.00	-26.92	0.47	48.82	54.00	5.18

In order to simplify the report, attached plots were only the lowest margin condition

802.11a_Highest Channel (5 320 MHz)



802.11n_HT20_Lowest Channel (5 260 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 543.02	H	55.00	39.00	-44.56	-	49.44	68.20	18.76
15 770.15 ¹⁾	V	54.20	38.10	-42.36	-	49.94	74.00	24.06
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT20_Middle Channel (5 280 MHz)

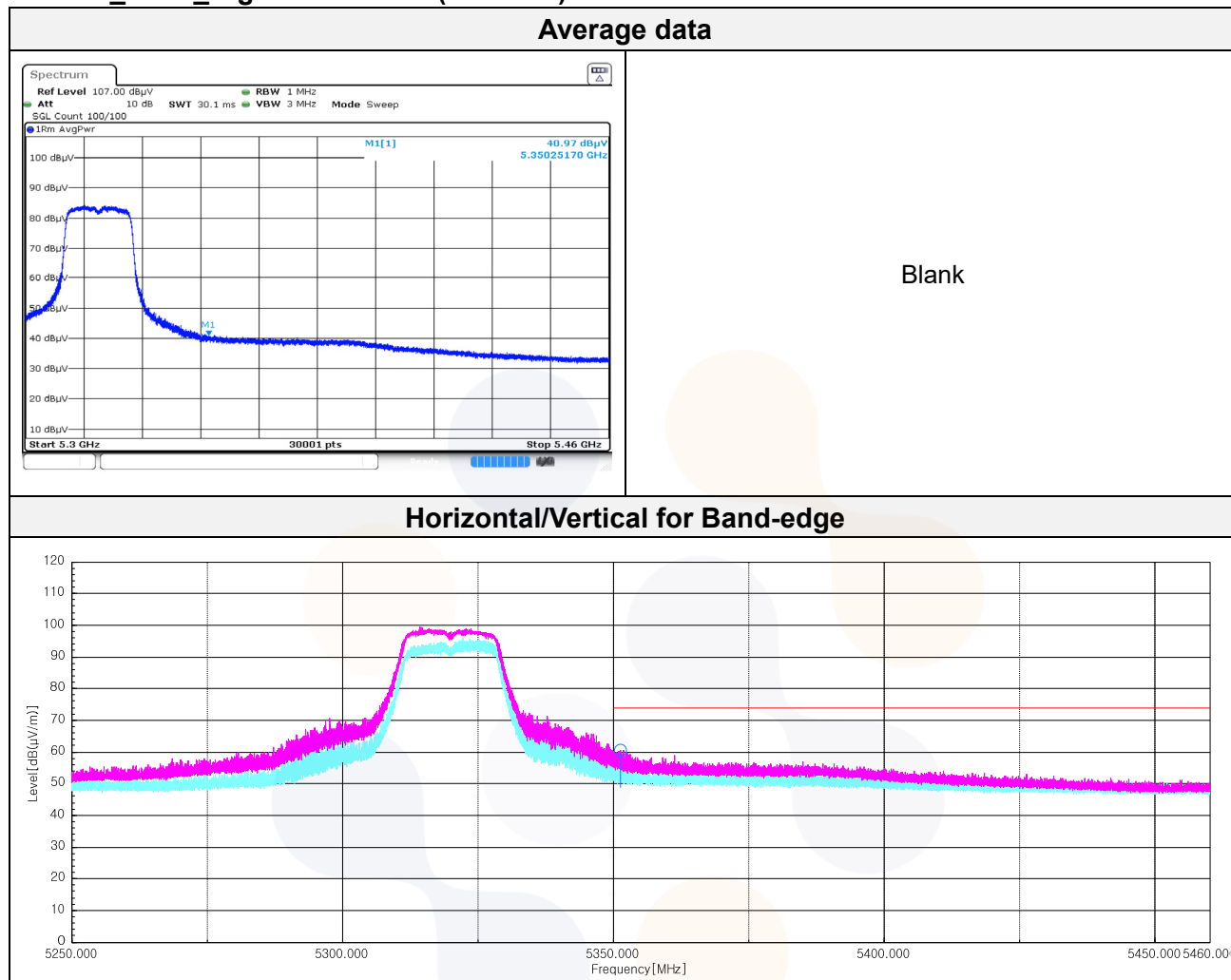
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 610.87 ¹⁾	V	54.70	39.22	-44.65	-	49.27	74.00	24.73
15 882.47 ¹⁾	V	54.20	38.20	-42.04	-	50.36	74.00	23.64
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT20_Highest Channel (5 320 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 350.25 ¹⁾	H	54.30	33.00	-26.92	-	60.38	74.00	13.62
10 666.83 ¹⁾	H	55.10	39.33	-44.72	-	49.71	74.00	24.29
15 979.45 ¹⁾	H	54.50	38.20	-41.77	-	50.93	74.00	23.07
Average Data								
5 350.25 ¹⁾	H	40.97	33.00	-26.92	0.42	47.47	54.00	6.53

In order to simplify the report, attached plots were only the lowest margin condition

802.11n_HT20_Highest Channel (5 320 MHz)

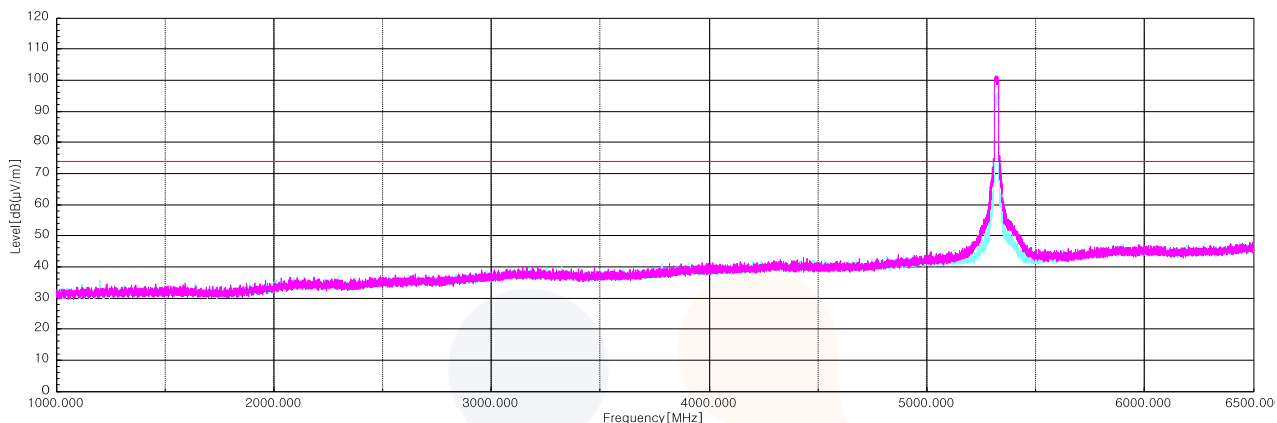


Plot of Harmonics and Spurious Emissions

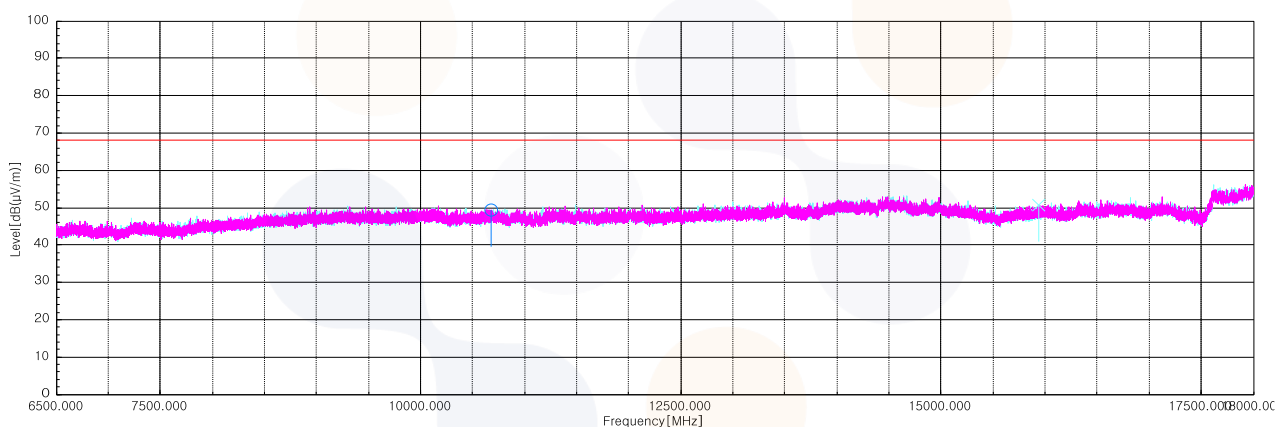
In order to simplify the report, attached plots were only the lowest margin condition

802.11a_UNII 2A_Highest Channel (5 320 MHz)

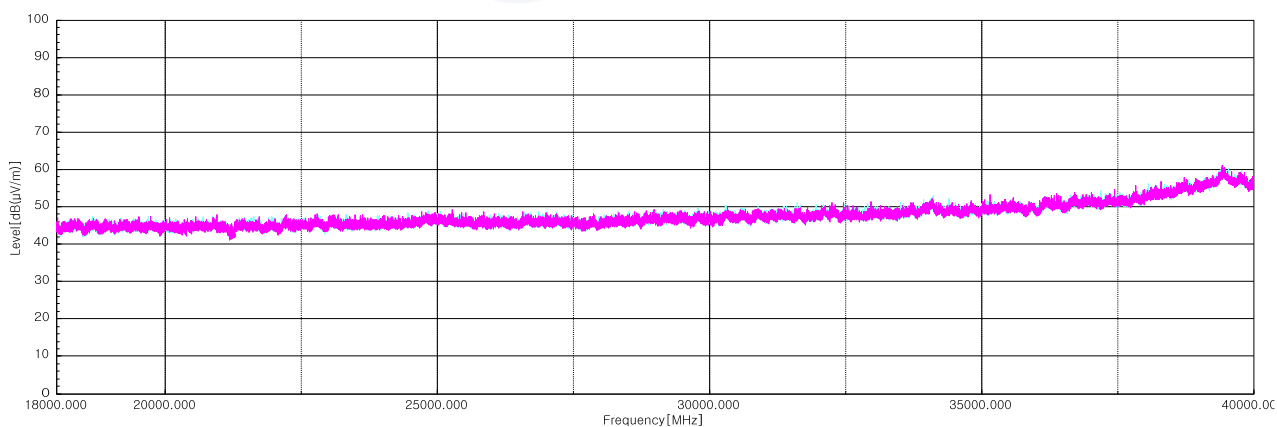
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



UNII 2C

802.11a_Lowest Channel (5 500 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 459.21 ¹⁾	H	55.50	33.00	-26.82	-	61.68	74.00	12.32
11 022.18 ¹⁾	H	54.00	39.06	-44.07	-	48.99	74.00	25.01
16 499.63	V	53.80	38.10	-41.43	-	50.47	68.20	17.73
Average Data								
5 459.21 ¹⁾	H	43.49	33.00	-26.82	0.47	50.14	54.00	3.86

802.11a_Middle Channel (5 600 MHz)

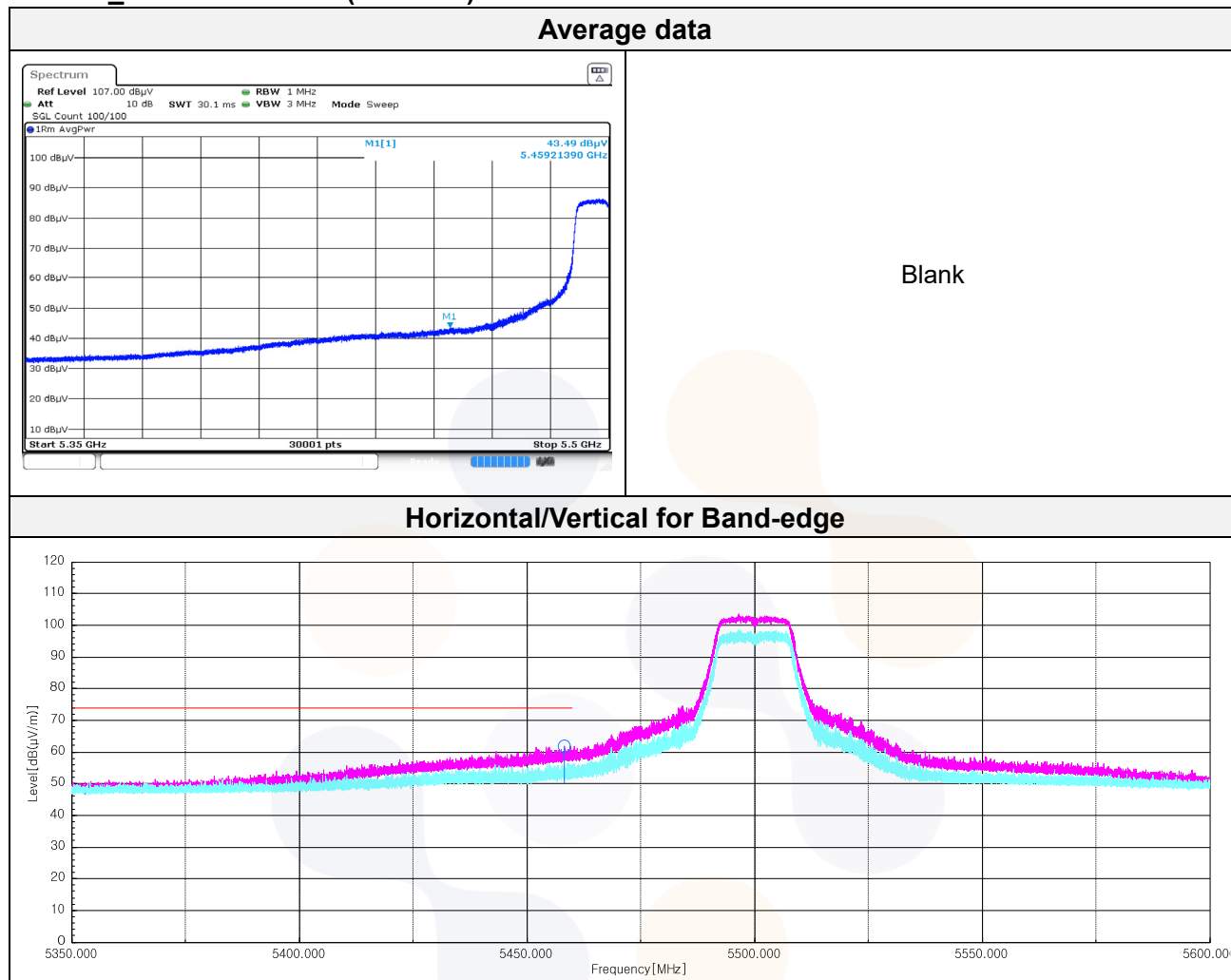
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
11 246.43 ¹⁾	V	54.60	39.19	-43.94	-	49.85	74.00	24.15
16 798.63	V	54.60	38.00	-41.43	-	51.17	68.20	17.03
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11a_Highest Channel (5 700 MHz)

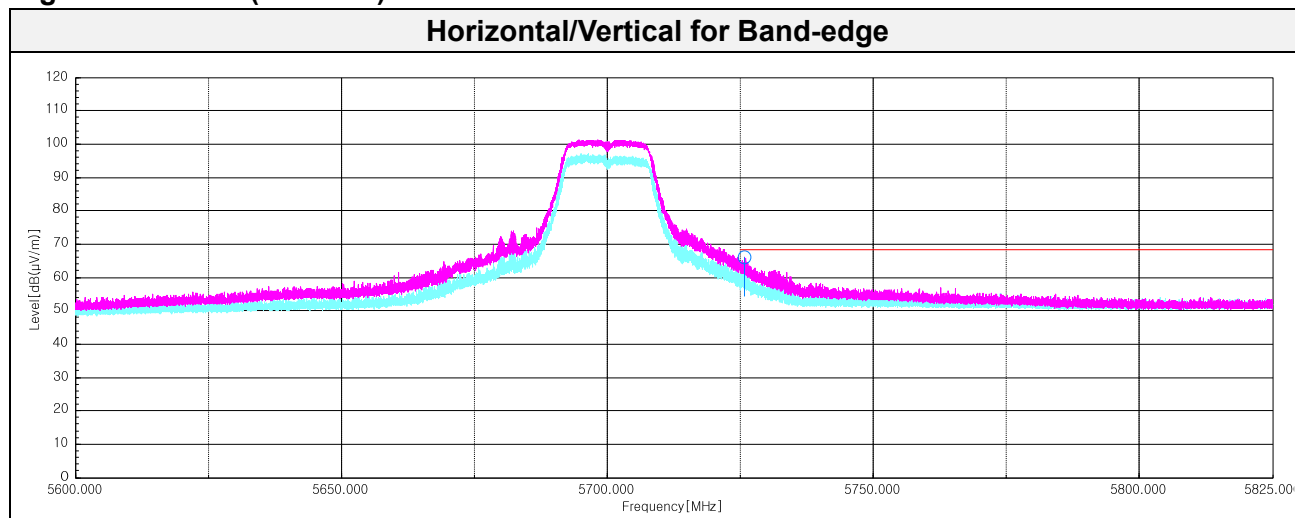
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 725.82	H	58.30	33.75	-26.14	-	65.91	68.20	2.29
11 399.00 ¹⁾	H	53.80	39.20	-43.44	-	49.56	74.00	24.44
17 051.63	H	55.70	38.10	-42.01	-	51.79	68.20	16.41
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

In order to simplify the report, attached plots were only the lowest margin condition

802.11a_Lowest Channel (5 500 MHz)



Highest Channel (5 700 MHz)



802.11n_HT20_Lowest Channel (5 500 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 457.94 ¹⁾	H	54.30	33.00	-26.82	-	60.48	74.00	13.52
10 947.43 ¹⁾	V	54.50	39.30	-44.24	-	49.56	74.00	24.44
16 495.03	V	54.50	38.10	-41.44	-	51.16	68.20	17.04
Average Data								
5 457.94 ¹⁾	H	41.10	33.00	-26.82	0.42	47.70	54.00	6.30

802.11n_HT20_Middle Channel (5 600 MHz)

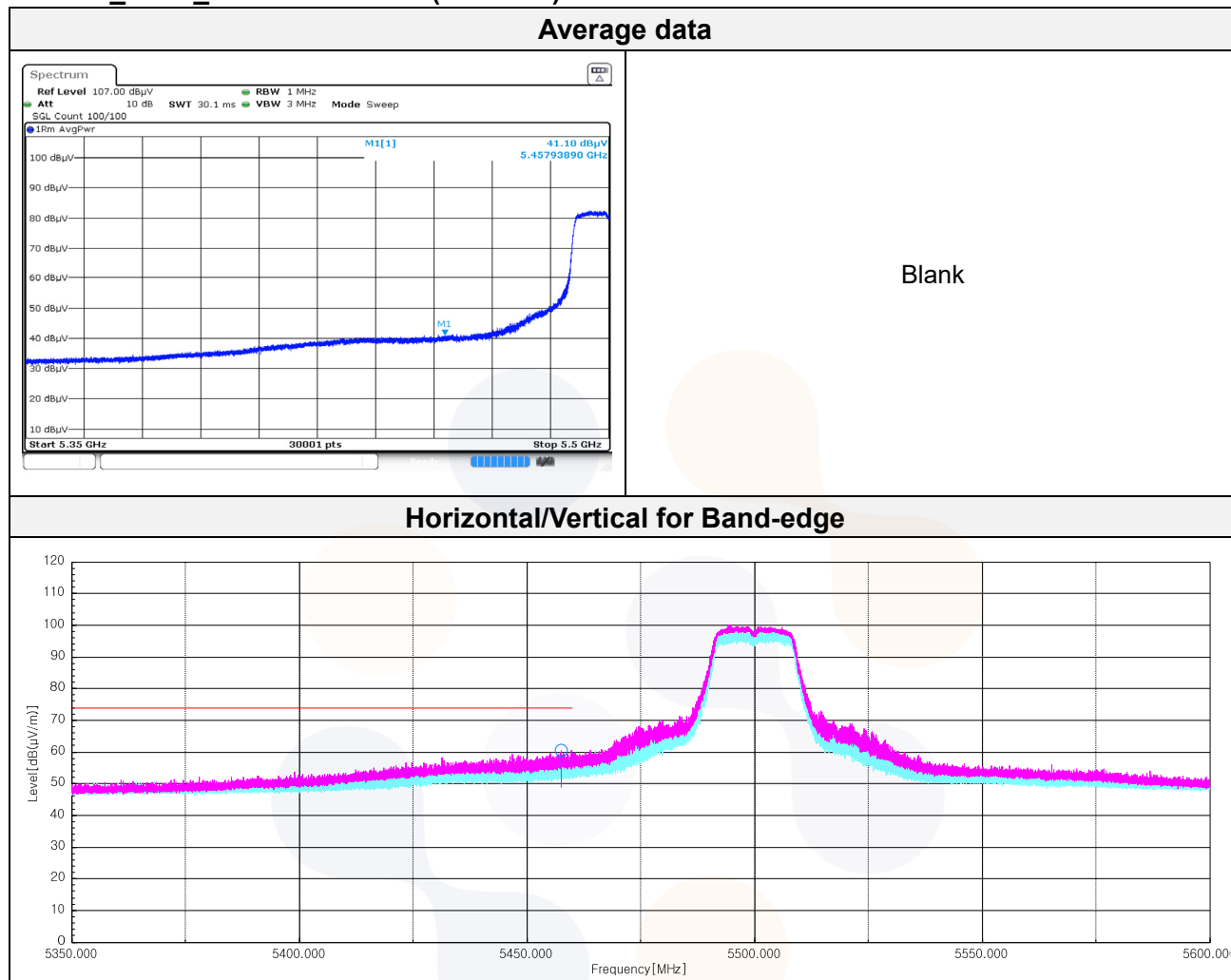
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 229.95 ¹⁾	V	54.20	39.16	-43.95	-	49.41	74.00	24.59
16 793.27	H	54.90	38.01	-41.41	-	51.50	68.20	16.70
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT20_Highest Channel (5 700 MHz)

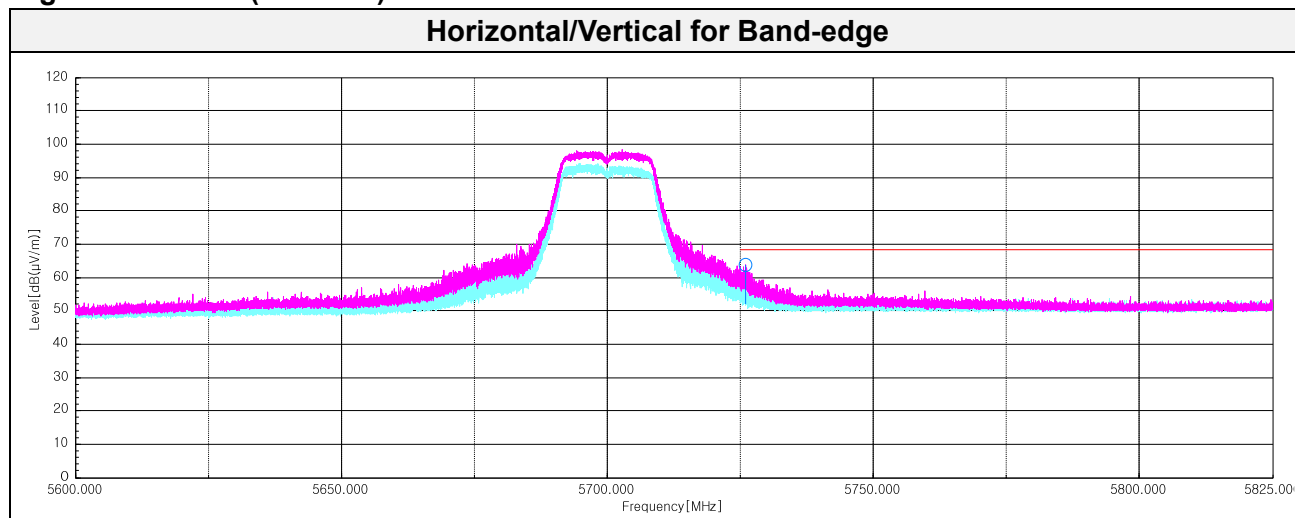
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 725.93	H	56.00	33.76	-26.14	-	63.62	68.20	4.58
11 424.68 ¹⁾	H	53.70	39.20	-43.35	-	49.55	74.00	24.45
17 114.12	H	55.00	38.10	-41.96	-	51.14	68.20	17.06
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

In order to simplify the report, attached plots were only the lowest margin condition

802.11n_HT20_Lowest Channel (5 500 MHz)



Highest Channel (5 700 MHz)

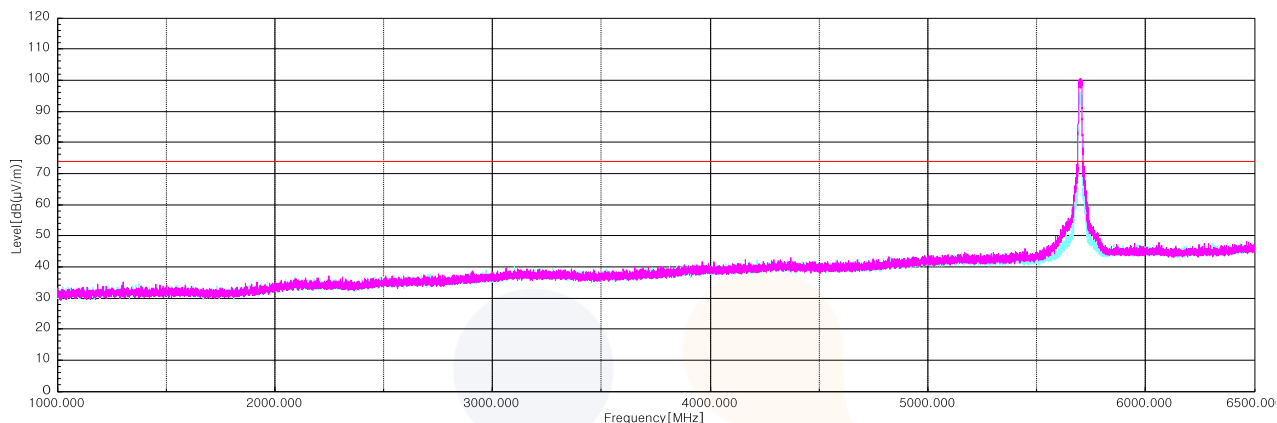


Plot of Harmonics and Spurious Emissions

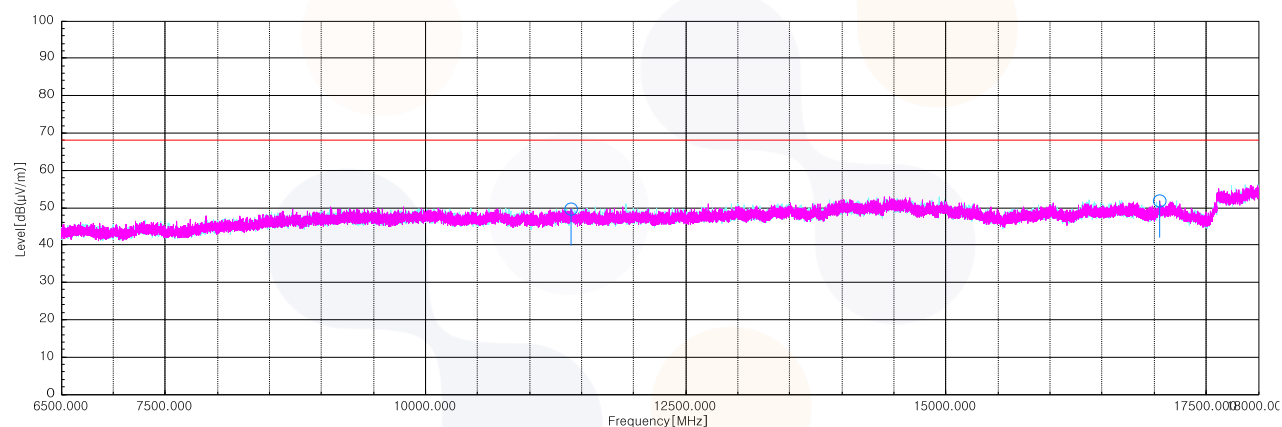
In order to simplify the report, attached plots were only the lowest margin condition

802.11a_UNII 2C_Highest Channel (5 700 MHz)

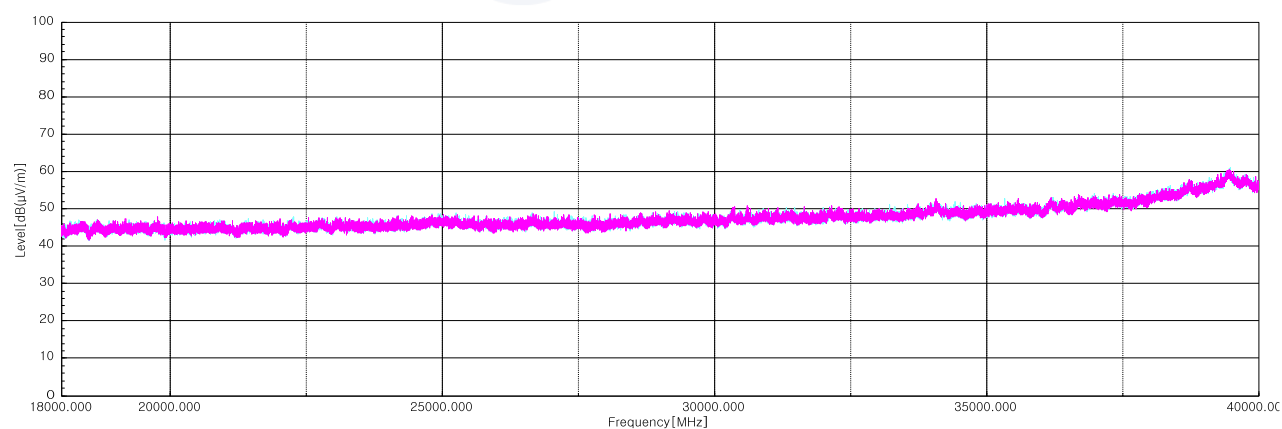
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



Straddle Channel

802.11a (5 720 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 424.30 ¹⁾	V	53.30	39.20	-43.35	-	49.15	74.00	24.85
17 189.25	V	55.10	38.10	-41.91	-	51.29	68.20	16.91
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n HT20 (5 720 MHz)

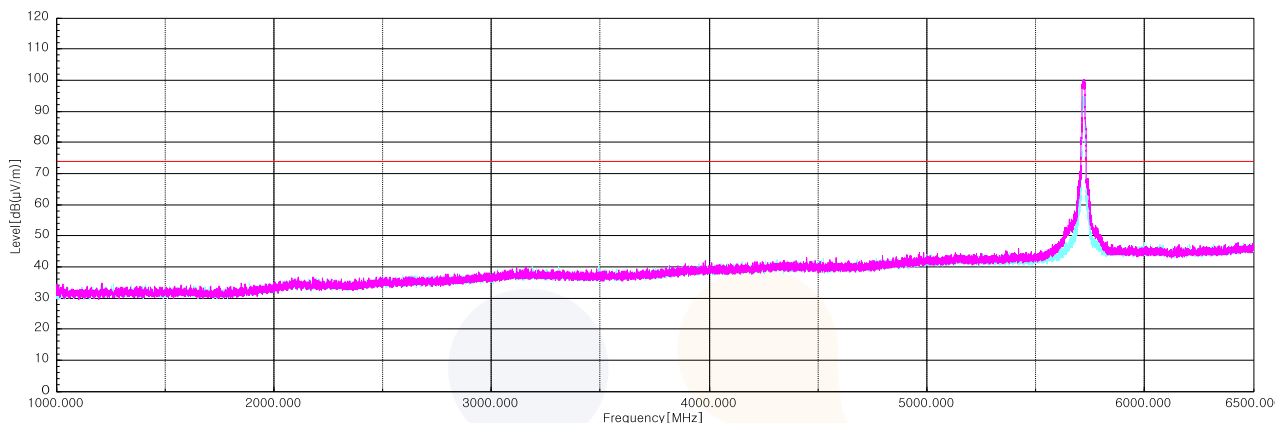
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 472.22 ¹⁾	V	53.90	39.06	-43.19	-	49.77	74.00	24.23
17 193.08	V	54.40	38.10	-41.90	-	50.60	68.20	17.60
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Plot of Harmonics and Spurious Emissions

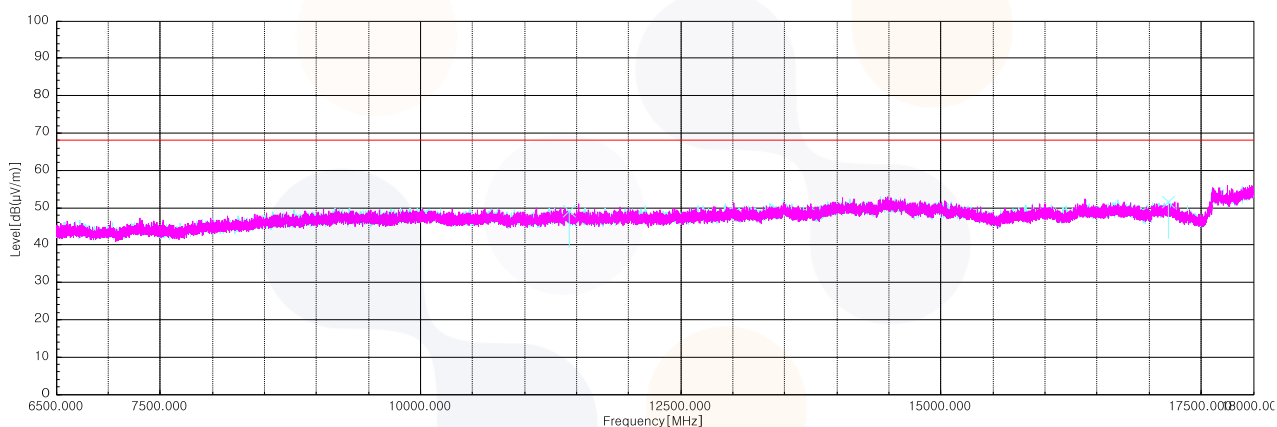
In order to simplify the report, attached plots were only the lowest margin condition

802.11a_Straddle Channel (5 720 MHz)

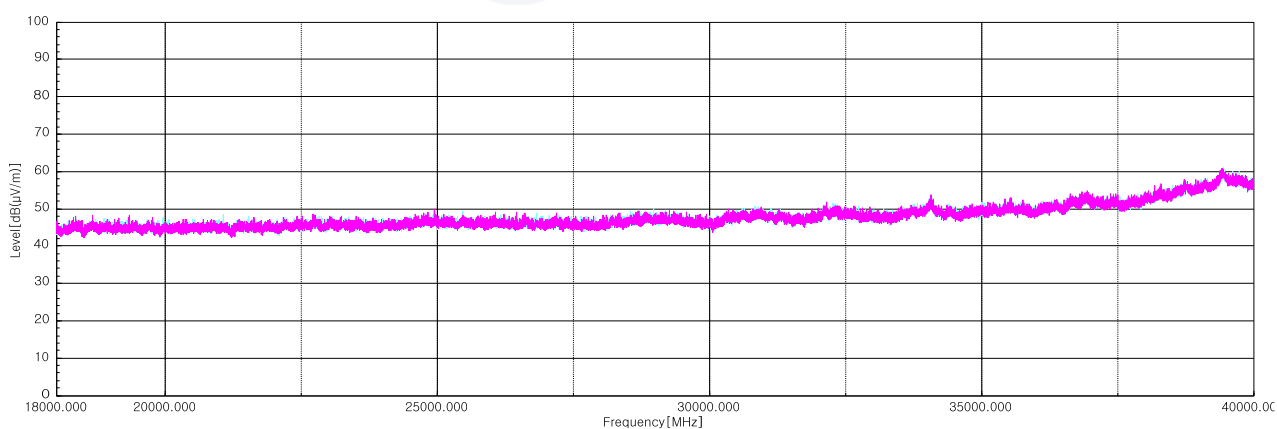
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



UNII 3

802.11a_Lowest Channel (5 745 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 719.96	H	57.60	33.72	-26.16	-	65.16	110.80	45.64
11 504.80 ¹⁾	V	54.50	38.99	-43.08	-	50.41	74.00	23.59
17 219.15	V	55.00	38.38	-41.88	-	51.50	68.20	16.70
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

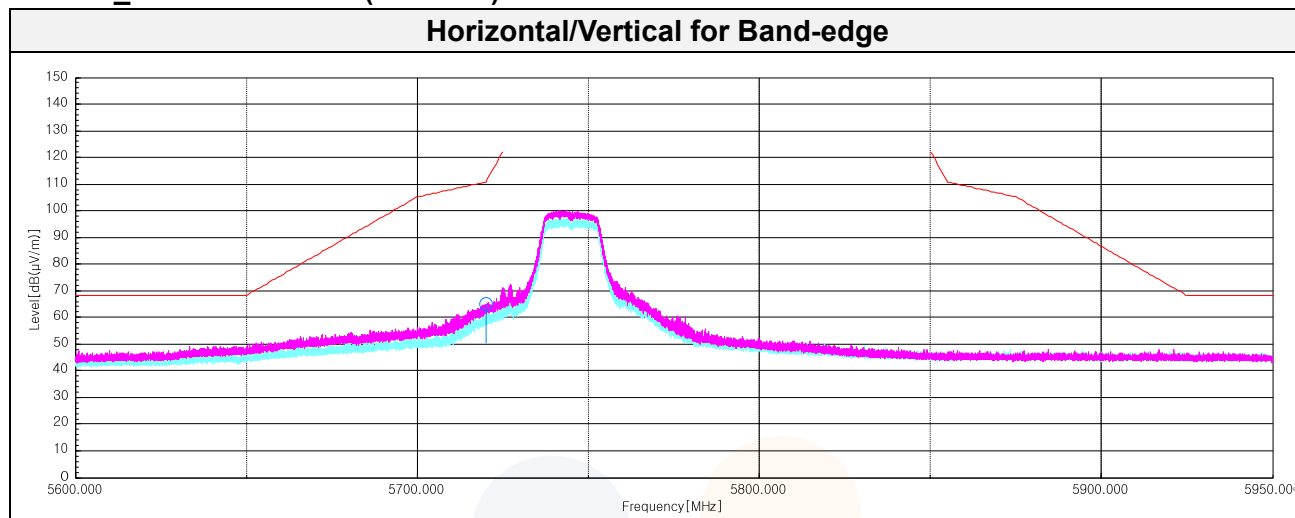
802.11a_Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 545.43 ¹⁾	V	53.60	38.91	-42.95	-	49.56	74.00	24.44
17 363.67	H	52.70	38.75	-42.09	-	49.36	68.20	18.84
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

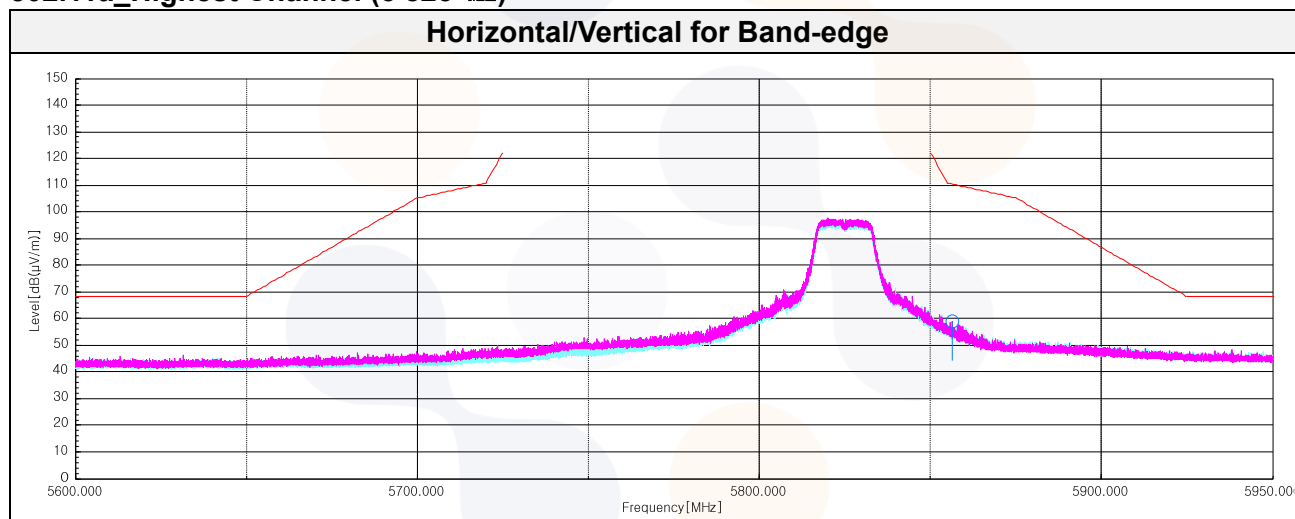
802.11a_Highest Channel (5 825 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 856.38	H	50.80	34.23	-25.93	-	59.10	110.40	51.30
11 633.60 ¹⁾	H	53.40	38.73	-42.66	-	49.47	74.00	24.53
17 453.75	V	51.00	39.22	-42.28	-	47.94	68.20	20.26
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11a_Lowest Channel (5 745 MHz)



802.11a_Highest Channel (5 825 MHz)



802.11n_HT20_Lowest Channel (5 745 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 719.11	H	56.60	33.71	-26.16	-	64.15	110.50	46.35
11 483.72 ¹⁾	H	53.20	39.03	-43.15	-	49.08	74.00	24.92
17 211.10	V	54.60	38.34	-41.89	-	51.05	68.20	17.15
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

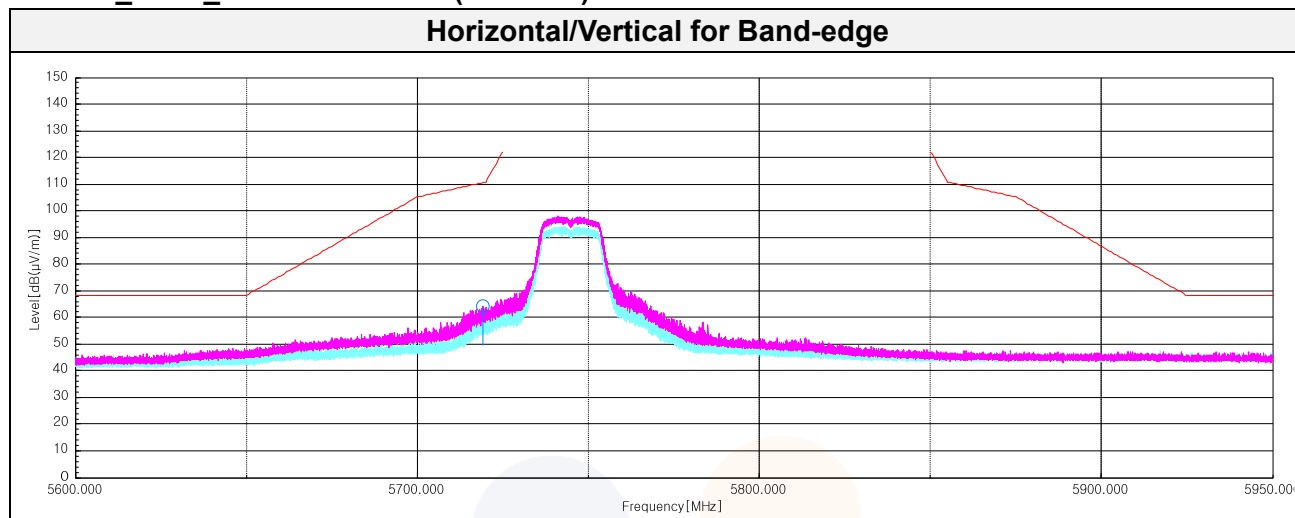
802.11n_HT20_Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 534.32 ¹⁾	V	53.20	38.93	-42.99	-	49.14	74.00	24.86
17 392.42	V	53.30	38.87	-42.15	-	50.02	68.20	18.18
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

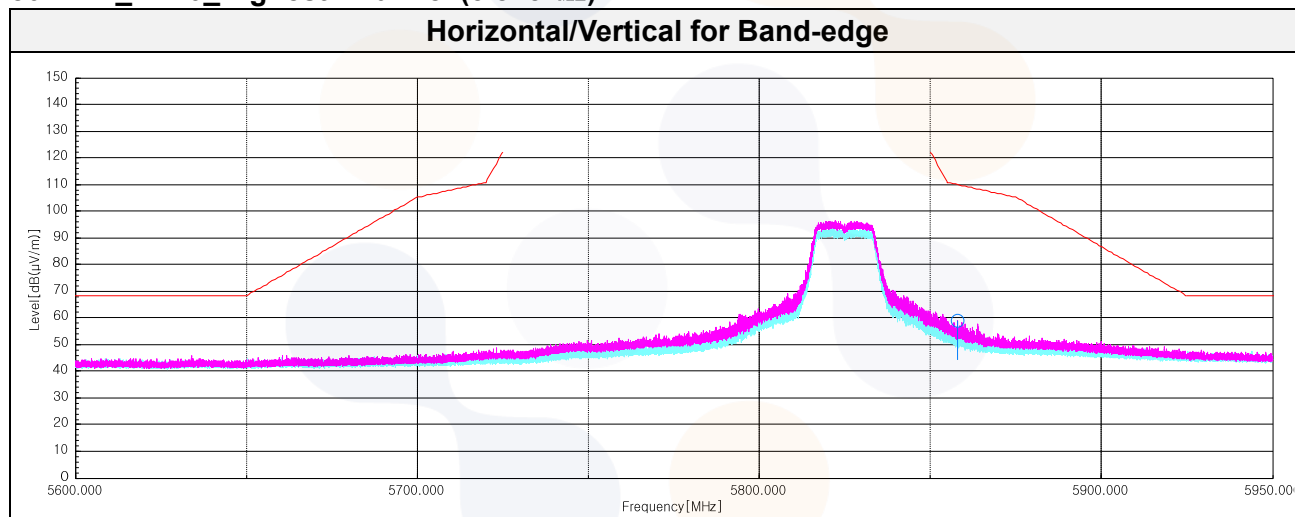
802.11n_HT20_Highest Channel (5 825 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 857.87	H	50.60	34.23	-25.92	-	58.91	110.00	51.09
11 678.45 ¹⁾	V	53.10	38.80	-42.51	-	49.39	74.00	24.61
17 478.67	H	52.10	39.31	-42.33	-	49.08	68.20	19.12
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT20_Lowest Channel (5 745 MHz)



802.11n_HT20_Highest Channel (5 825 MHz)

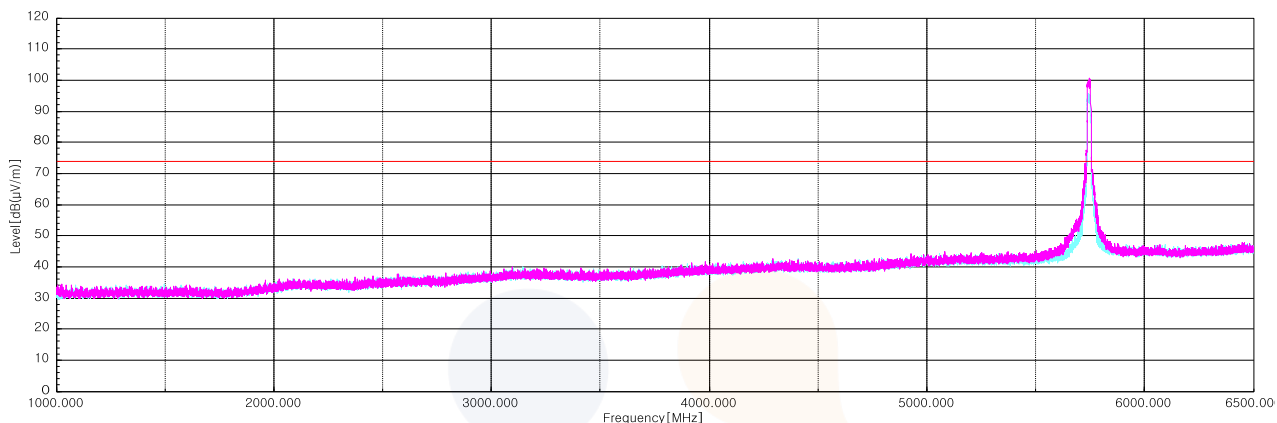


Plot of Harmonics and Spurious Emissions

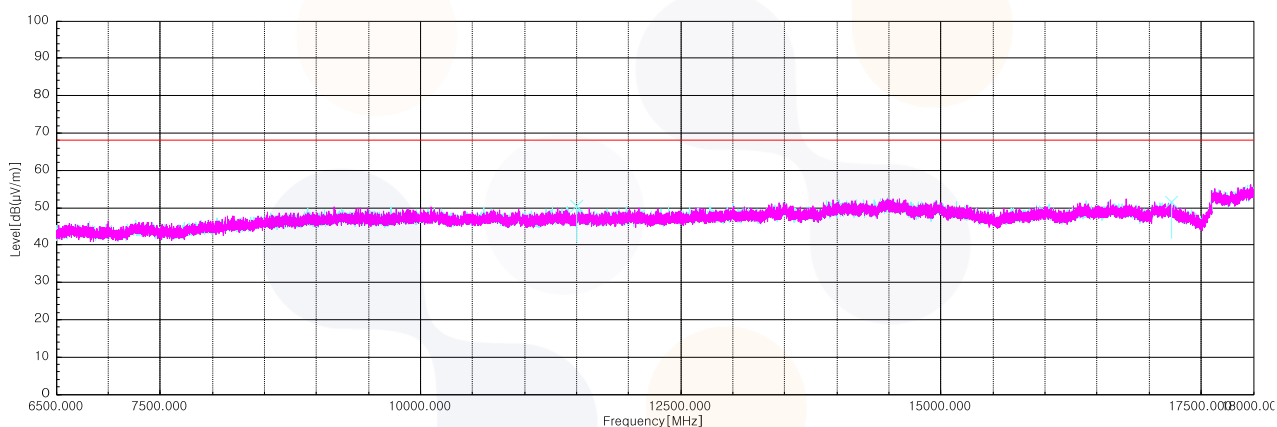
In order to simplify the report, attached plots were only the lowest margin condition

802.11a_UNII 3_Lowest Channel (5 745 MHz)

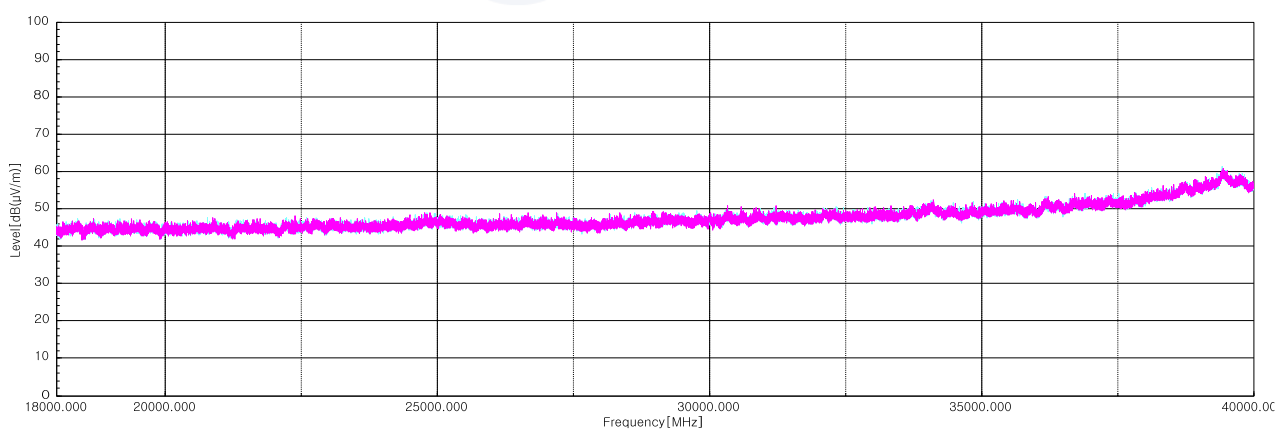
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



Spurious Emission for Simultaneous Tx Condition

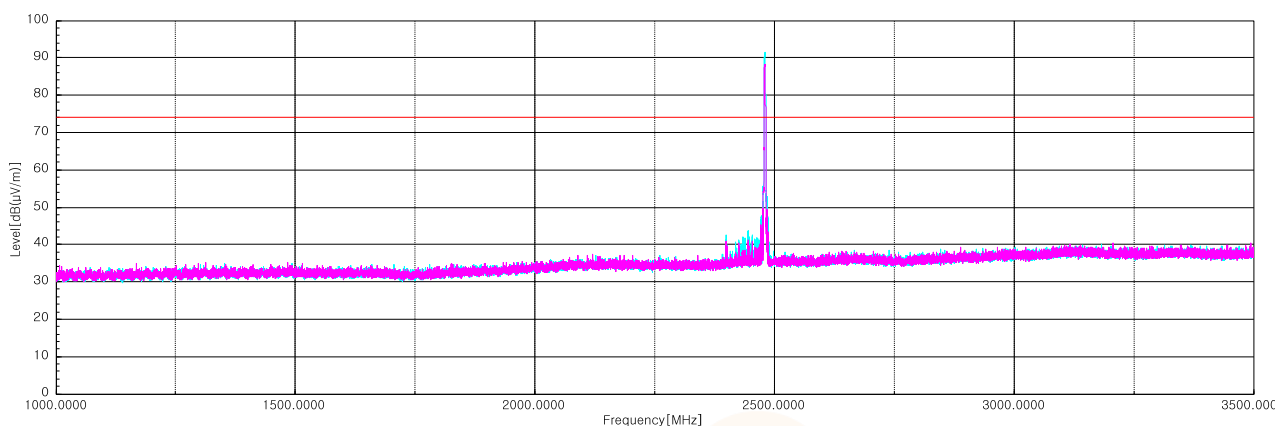
Case	WLAN 5 GHz	Bluetooth
Mode	802.11a	BLE
Channel	140	39
Frequency	5 700 MHz	2 480 MHz
Data Rate	6Mbps	2M Bits/s, 37 Packet

Notes.

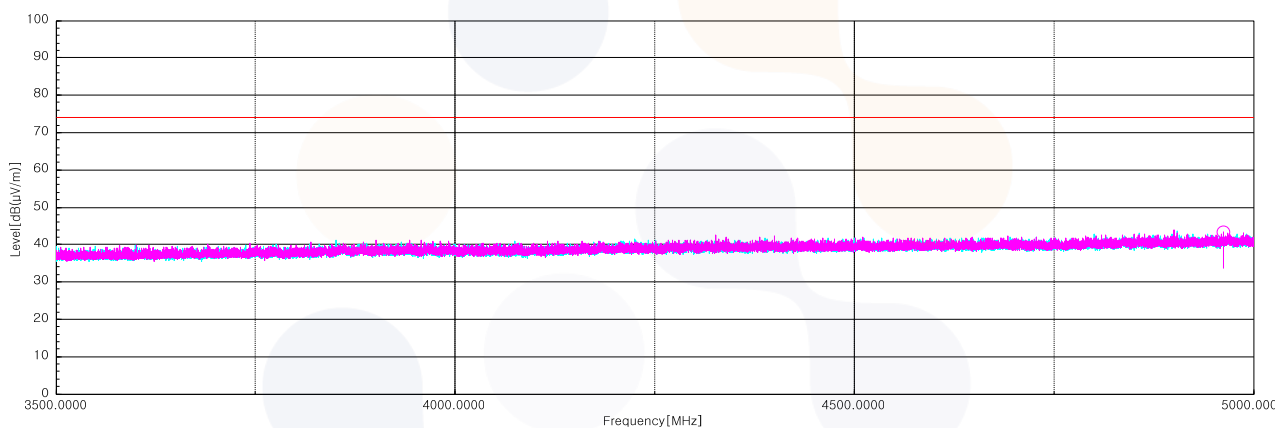
The lowest margin condition among the channels and modes were selected for test.

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
4 961.95 ¹⁾	H	53.90	32.65	-43.19	-	43.36	74.00	30.64
7 445.68 ¹⁾	V	51.40	36.31	-40.73	-	46.98	74.00	27.02
11 451.52 ¹⁾	V	53.60	38.70	-41.56	-	50.74	74.00	23.26
17 249.82	H	49.60	38.30	-36.84	-	51.06	68.20	17.14
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

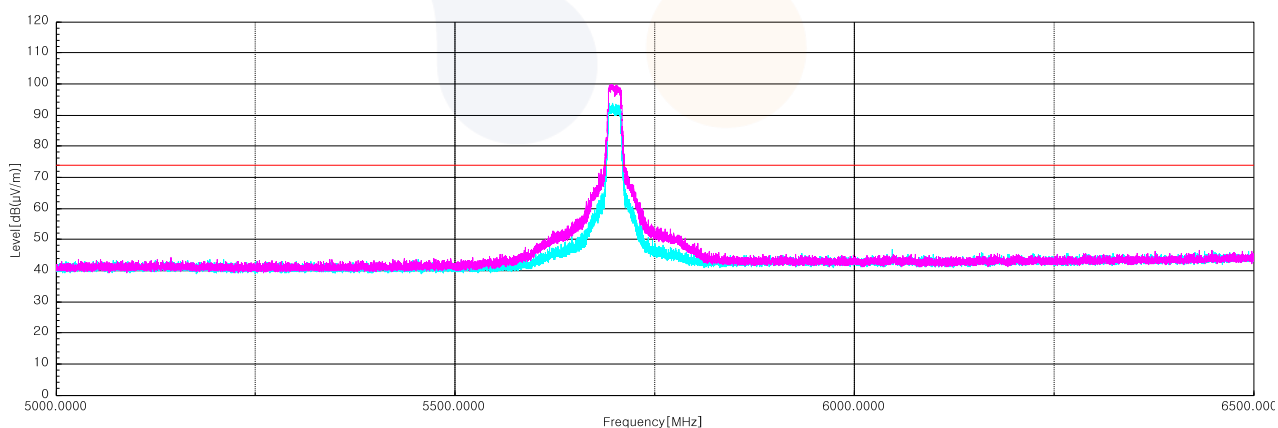
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



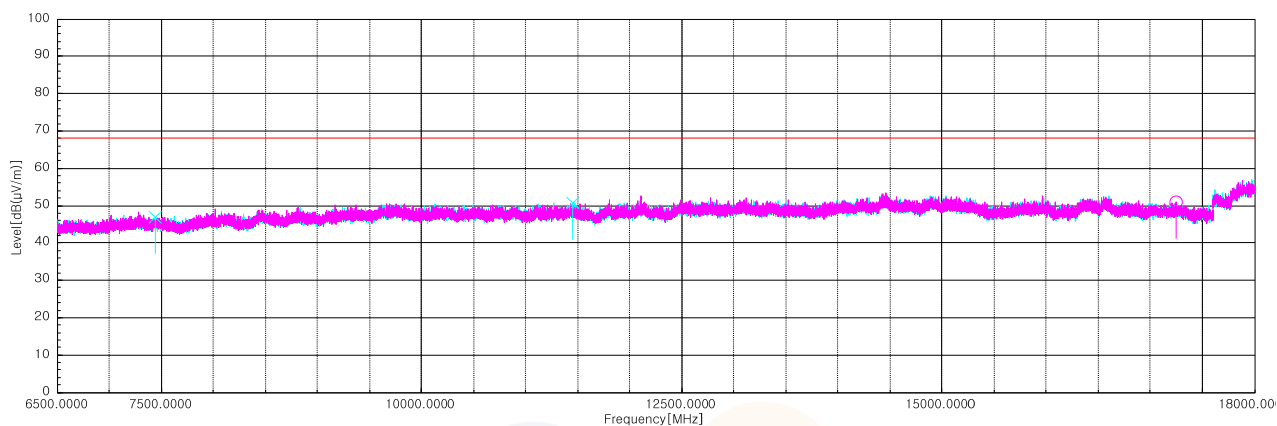
Horizontal/Vertical for 3.5 GHz ~ 5 GHz



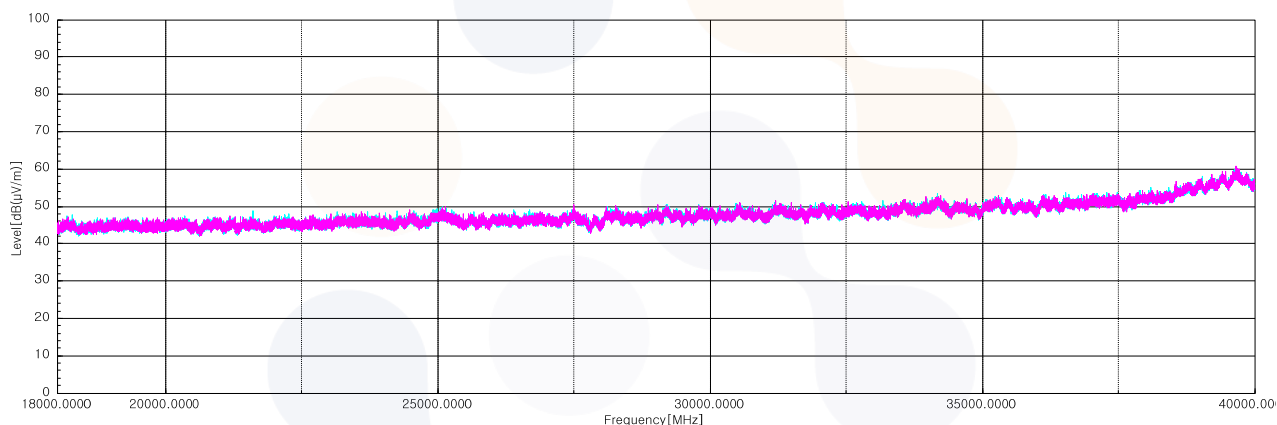
Horizontal/Vertical for 5 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz

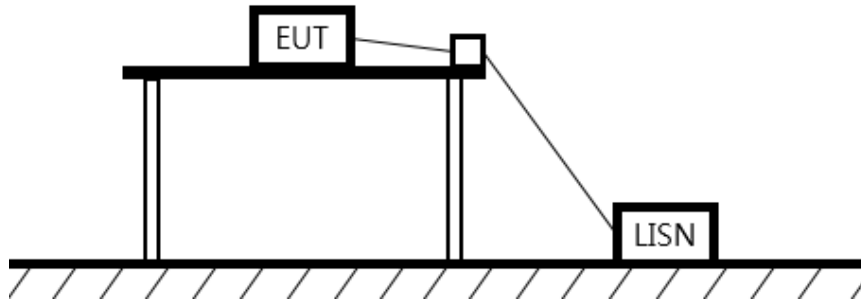


Horizontal/Vertical for 18 GHz ~ 40 GHz



7.8. AC Conducted emission

Test setup



Limit

According to 15.207(a),

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

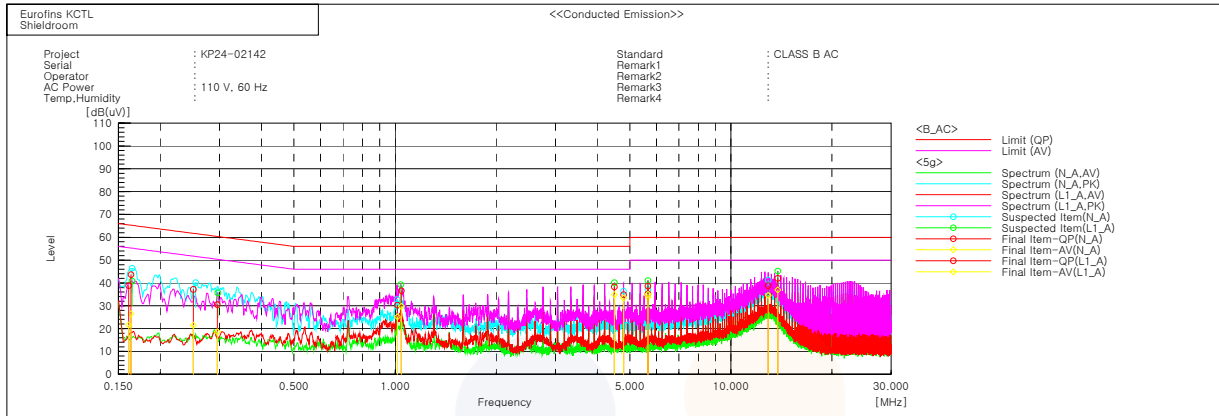
Frequency of Emission (MHz)	Conducted limit (dB μ V/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

Measurement procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω /50 μ H LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 kHz or to quasi-peak and average within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

Test results

Worst case: 802.11a / UNII 2C_5 600 MHz



Final Result

--- N_A Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.16364	33.3	16.1	10.4	43.7	26.5	65.3	55.3	21.6	28.8
2	0.25091	27.2	11.5	10.0	37.2	21.5	61.7	51.7	24.5	30.2
3	1.01676	20.3	15.2	10.0	30.3	25.2	56.0	46.0	25.7	20.8
4	4.78916	24.9	23.4	10.0	34.9	33.4	56.0	46.0	21.1	12.6
5	5.6595	25.1	23.6	10.1	35.2	33.7	60.0	50.0	24.8	16.3
6	12.91382	28.0	23.7	10.8	38.8	34.5	60.0	50.0	21.2	15.5

--- L1_A Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.161	28.5	11.3	10.3	38.8	21.6	65.4	55.4	26.6	33.8
2	0.29564	20.5	8.6	10.0	30.5	18.6	60.4	50.4	29.9	31.8
3	1.04365	26.6	19.7	10.0	36.6	29.7	56.0	46.0	19.4	16.3
4	4.49861	28.3	24.8	10.0	38.3	34.8	56.0	46.0	17.7	11.2
5	5.66051	28.6	25.0	10.0	38.6	35.0	60.0	50.0	21.4	15.0
6	13.78564	31.1	26.1	10.9	42.0	37.0	60.0	50.0	18.0	13.0

8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV30	100806	24.07.03
Spectrum Analyzer	R&S	FSV40	100988	24.07.03
PSA Spectrum Analyzer	Agilent	E4440A	MY44303500	24.07.04
Spectrum Analyzer	R&S	FSVA40	101575	25.04.24*
EMI TEST RECEIVER	R&S	ESCI3	101428	24.08.18
Signal Generator	R&S	SMB100A	176206	25.01.18
Vector Signal Generator	R&S	SMBV100A	257566	24.07.04
DC Power Supply	AGILENT	E3632A	MY40016393	24.07.03
DC Power Supply	AGILENT	E3632A	KR94907664	25.04.24*
Attenuator	API Inmet	40AH2W-10	16	25.04.30*
Power Divider	Aeroflex/ Weinschel, Inc	1580-1	PE430	24.07.04
Power Divider	AGILENT	11636B	54456	24.10.13
Step Attenuator	KEYSIGHT	8495D	MY42144300	25.01.19
Step Attenuator	AGILENT	8494B	MY42140941	25.01.19
Bi-log Antenna	Teseq GmbH	CBL 6112D	61521	24.11.17
Loop Antenna	R&S	HFH2-Z2	100355	24.08.10
Horn Antenna	SCHWARZBECK	BBHA9120D	2763	24.10.18
Horn Antenna	SCHWARZBECK	BBHA9120D	2764	24.10.18
Horn Antenna	SCHWARZBECK	BBHA9170	1266	24.10.16
Horn Antenna	SCHWARZBECK	BBHA9170	1267	24.10.16
Amplifier	SONOMA INSTRUMENT	310N	421910	24.10.12
Broadband Pre-Amplifier	SCHWARZBECK	BBV9718D	57	25.01.19
Low Noise Amplifier	TESTEK	TK-PA18H	220123-L	24.10.12
Low Noise Amplifier	TESTEK	TK-PA18H	220124-L	24.10.12
Low Noise Amplifier	TESTEK	TK-PA1840H	220133-L	24.10.17
Low Noise Amplifier	TESTEK	TK-PA1840H	220234-L	24.10.17
High Pass Filter	Wainwright Instruments GmbH	WHKX8-5655-6500- 18000-40SS	SN8	24.10.16
High Pass Filter	Wainwright Instruments GmbH	WHKX12-2805-3000- 18000-40SS	SN59	24.10.16
High Pass Filter	QOTANA TECHNOLOGIES	DBHF0508004000A	23041800061	24.07.10
Band Reject Filter	Wainwright Instruments GmbH	WTRCJV8-5100-5850- 20-100-50SSK	62	24.10.13
TWO-LINE V - NETWORK	R&S	ENV216	101358	24.09.27

*This equipment was calibrated during the test period, and was used after calibration.

End of test report