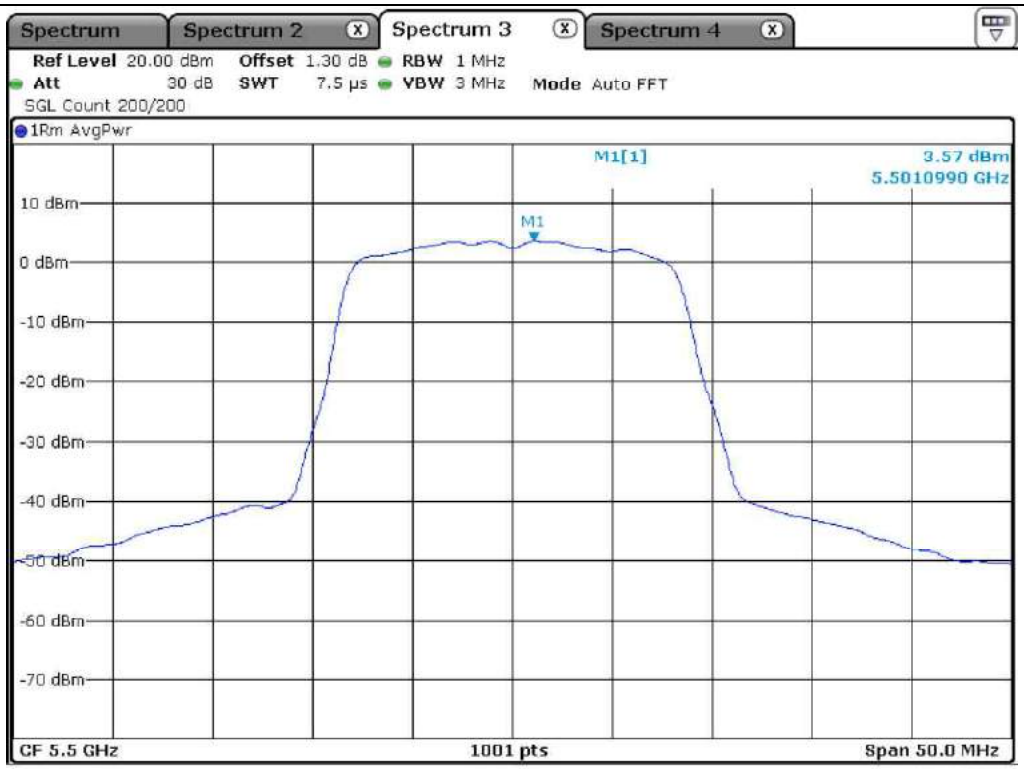
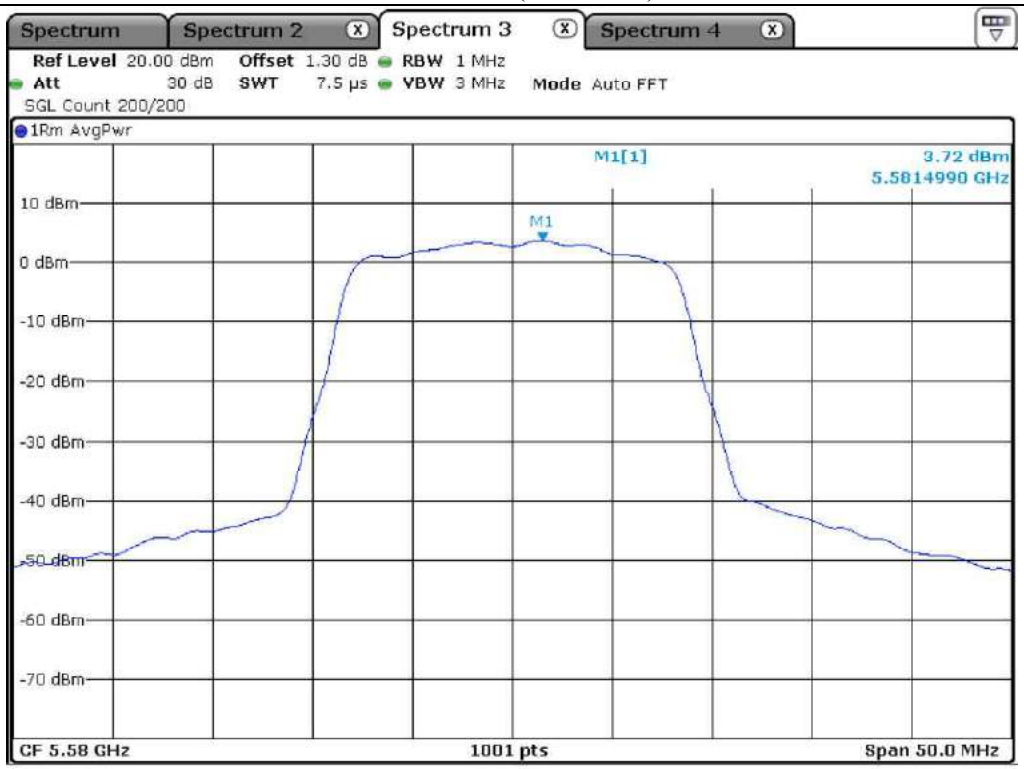


Low Channel (5 500 MHz)

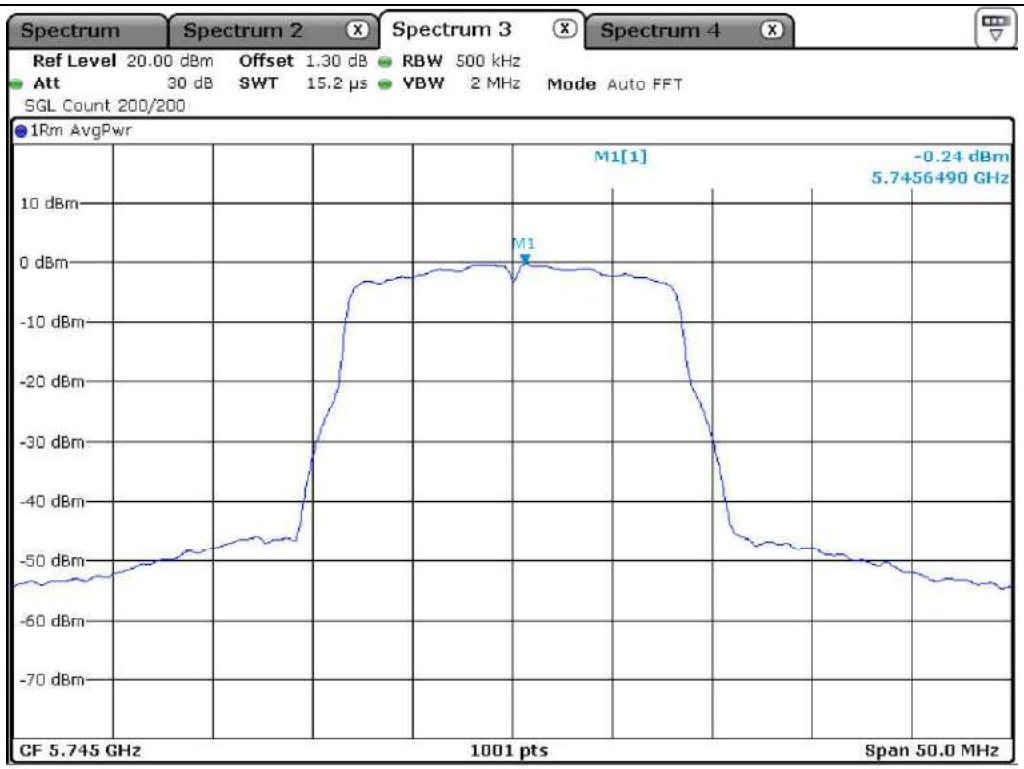


Middle Channel (5 580 MHz)

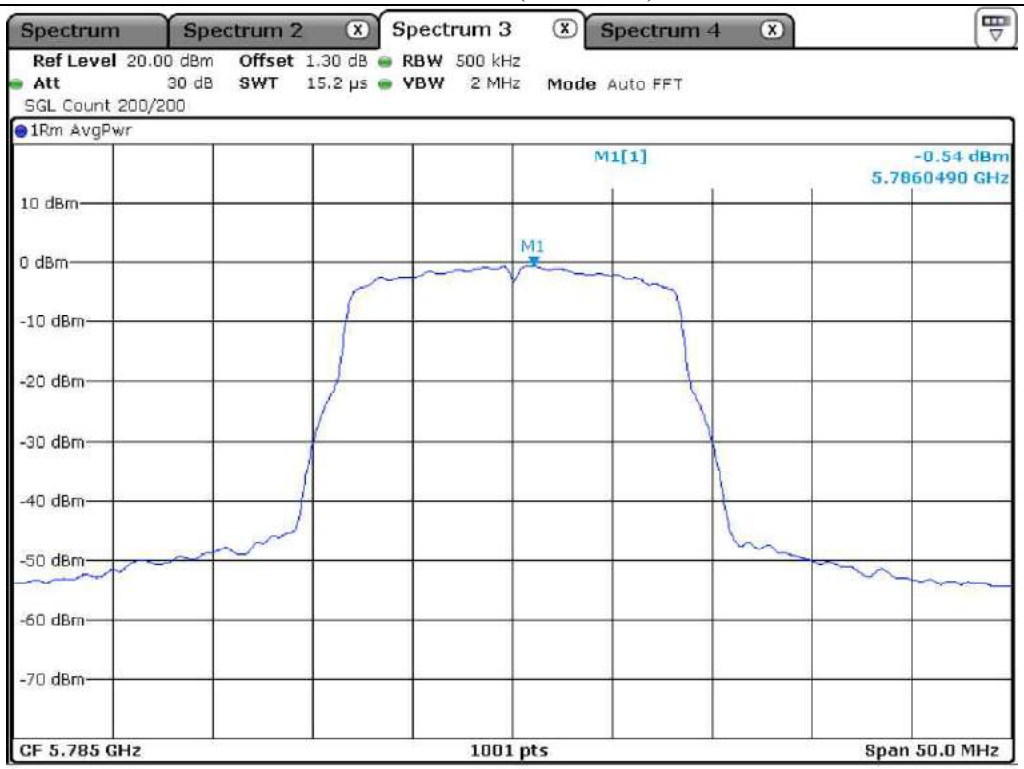
ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

High Channel (5 700 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

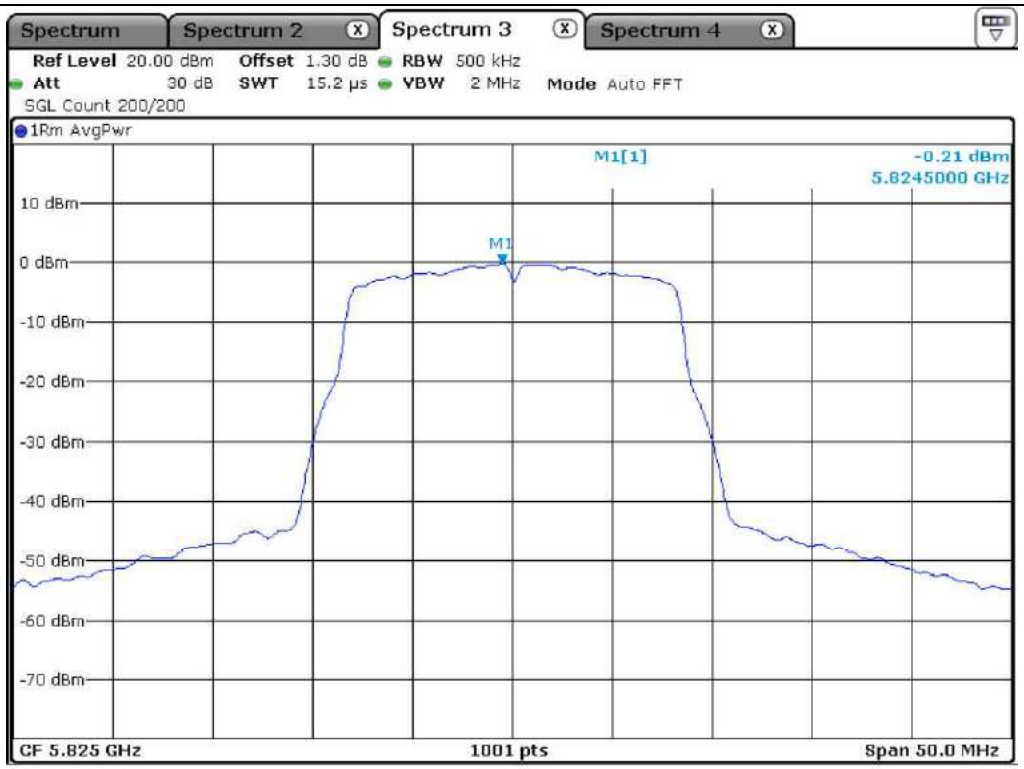


Low Channel (5 745 MHz)



Middle Channel (5 785 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



High Channel (5 825 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.4.3 Test data for Multiple Transmit

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180.00	3.28	11.00	7.72
	Middle	5 220.00	3.02	11.00	7.98
	High	5 240.00	3.36	11.00	7.64
5 250 ~ 5 350	Low	5 260.00	6.14	11.00	4.86
	Middle	5 300.00	6.36	11.00	4.64
	High	5 320.00	6.74	11.00	4.26
5 470 ~ 5 725	Low	5 500.00	6.26	11.00	4.74
	Middle	5 580.00	6.27	11.00	4.73
	High	5 700.00	5.80	11.00	5.20
5 725 ~ 5 850	Low	5 745.00	2.58	30.00	27.42
	Middle	5 785.00	2.62	30.00	27.38
	High	5 825.00	2.32	30.00	27.68

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.4.4 Test data for Staddle Channel_Antenna 0

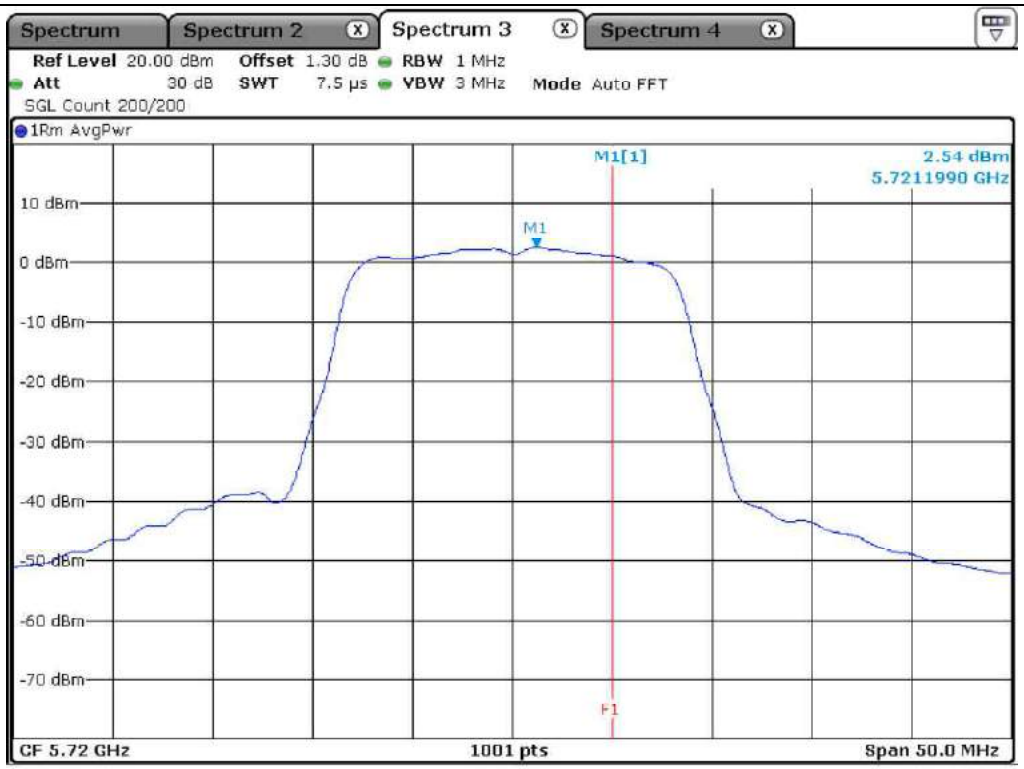
-. Operating condition : Highest Output Power Transmitting Mode

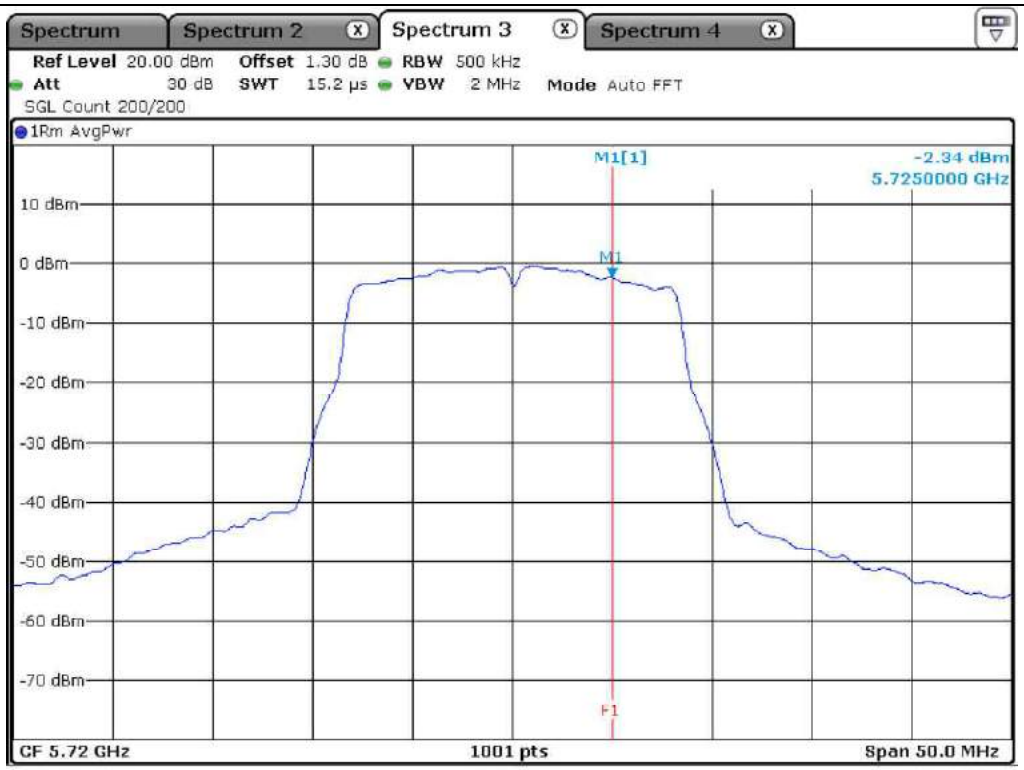
-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720.00	2.54	11.00	8.46
5 725 ~ 5 850	5 720.00	-2.34	30.00	32.34

Remark: See next page for measurement data.

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)





ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.4.5 Test data for Staddle Channel_Antenna 1

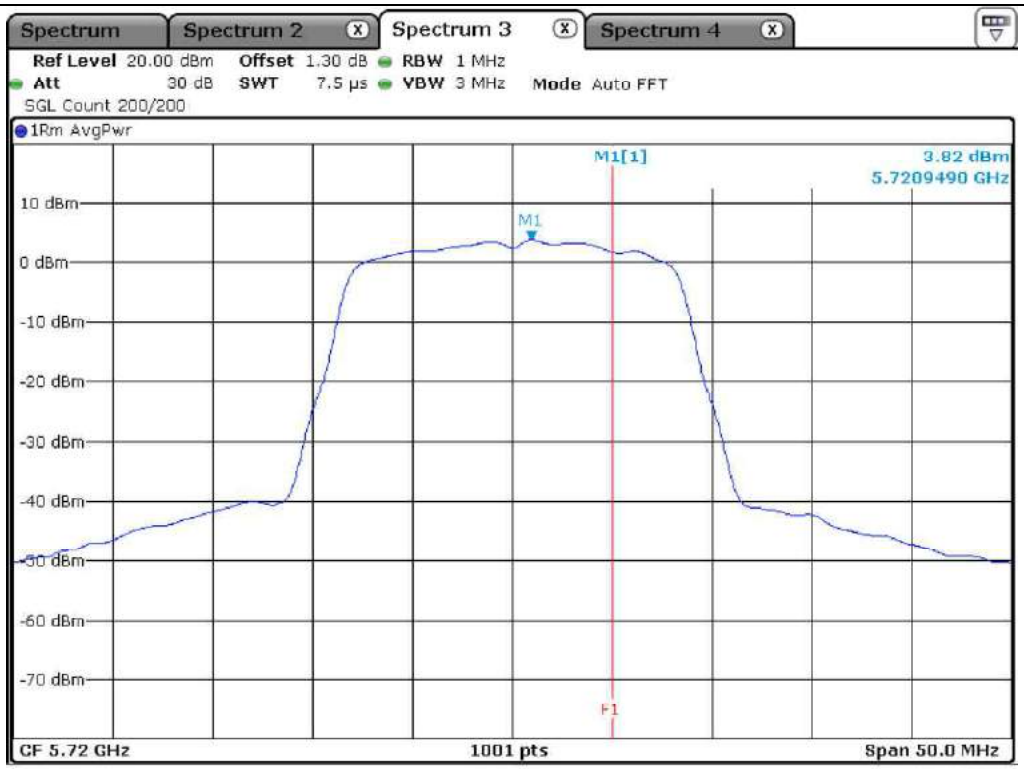
-. Operating condition : Highest Output Power Transmitting Mode

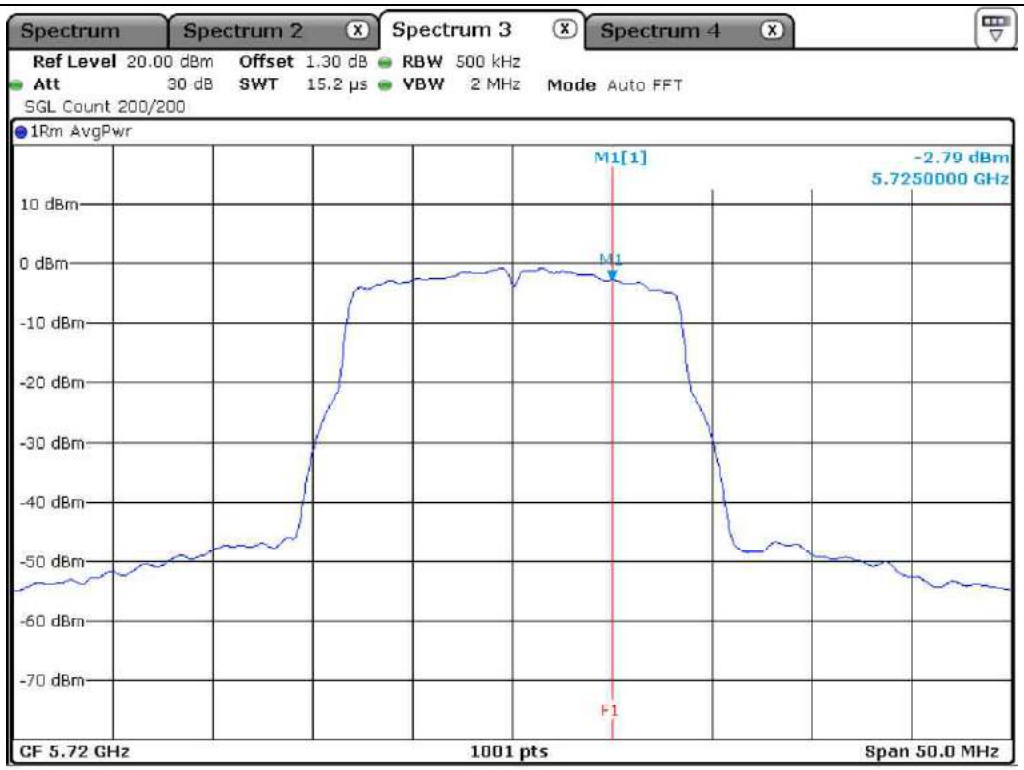
-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720.00	3.82	11.00	7.18
5 725 ~ 5 850	5 720.00	-2.79	30.00	32.79

Remark: See next page for measurement data.

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)





ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.4.6 Test data for Staddle Channel_Multiple Transmit

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720.00	6.24	11.00	4.76
5 725 ~ 5 850	5 720.00	0.45	30.00	29.55

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.5 Test data for 802.11n_HT20 RLAN Mode

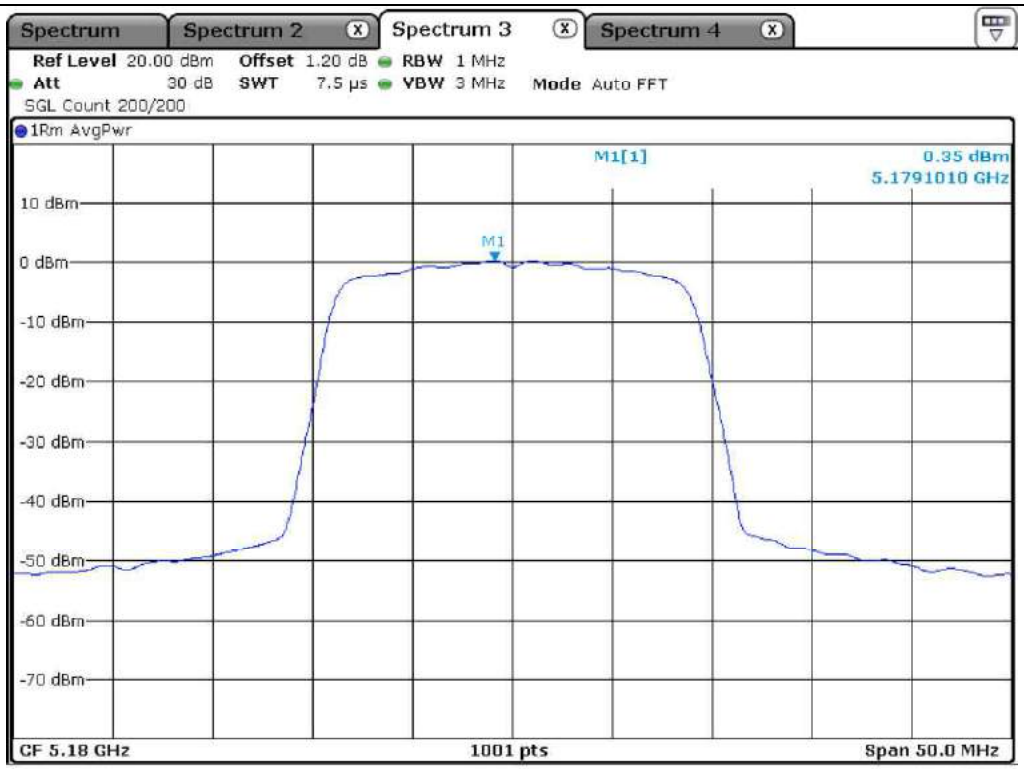
10.5.1 Test data for Antenna 0

-. Operating condition : Highest Output Power Transmitting Mode

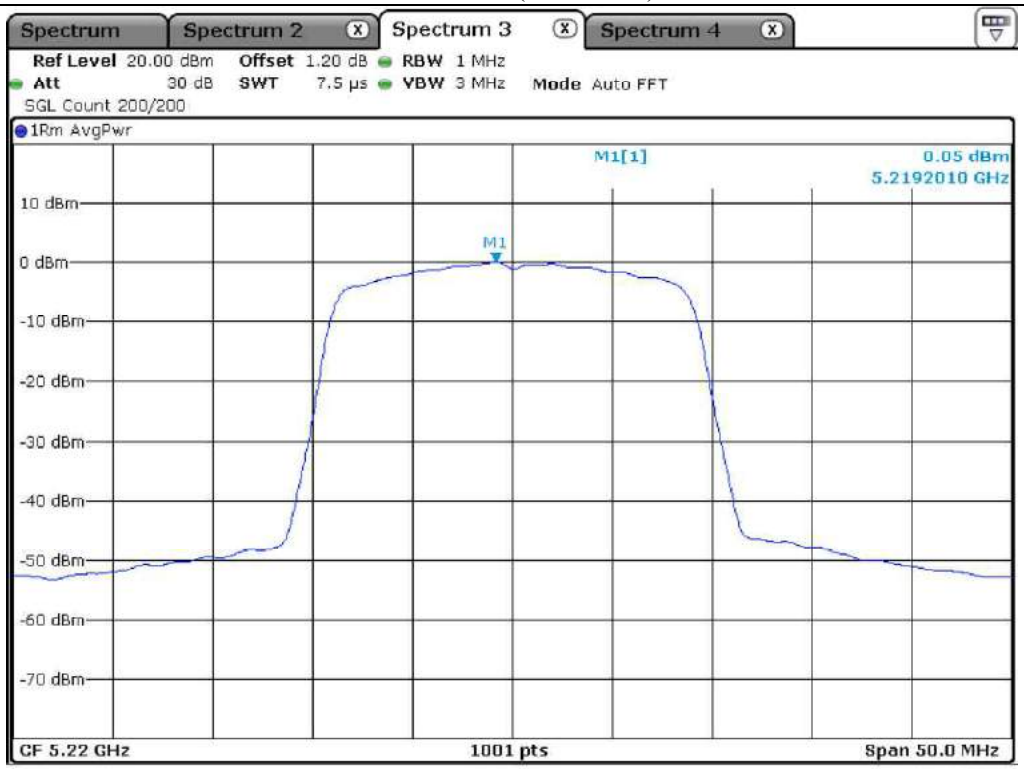
-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180.00	0.35	11.00	10.65
	Middle	5 220.00	0.05	11.00	10.95
	High	5 240.00	0.04	11.00	10.96
5 250 ~ 5 350	Low	5 260.00	4.17	11.00	6.83
	Middle	5 300.00	4.10	11.00	6.90
	High	5 320.00	4.15	11.00	6.85
5 470 ~ 5 725	Low	5 500.00	2.91	11.00	8.09
	Middle	5 580.00	2.76	11.00	8.24
	High	5 700.00	2.75	11.00	8.25
5 725 ~ 5 850	Low	5 745.00	-1.13	30.00	31.13
	Middle	5 785.00	-0.59	30.00	30.59
	High	5 825.00	-1.26	30.00	31.26

Remark: See next page for measurement data.

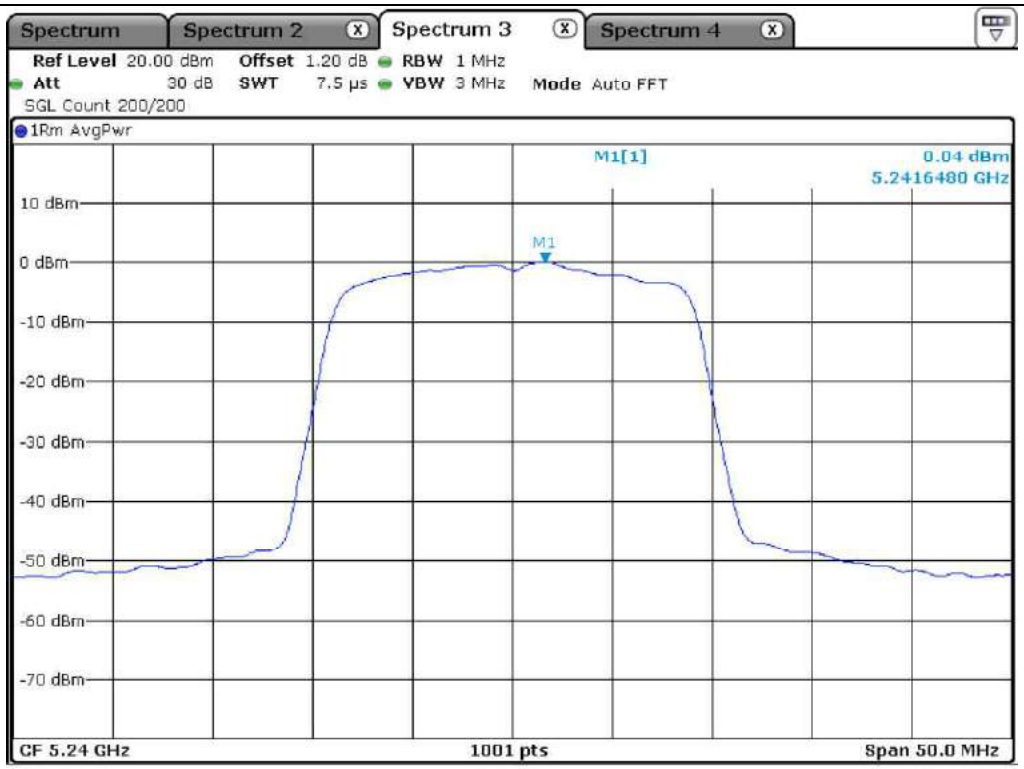


Low Channel (5 180 MHz)



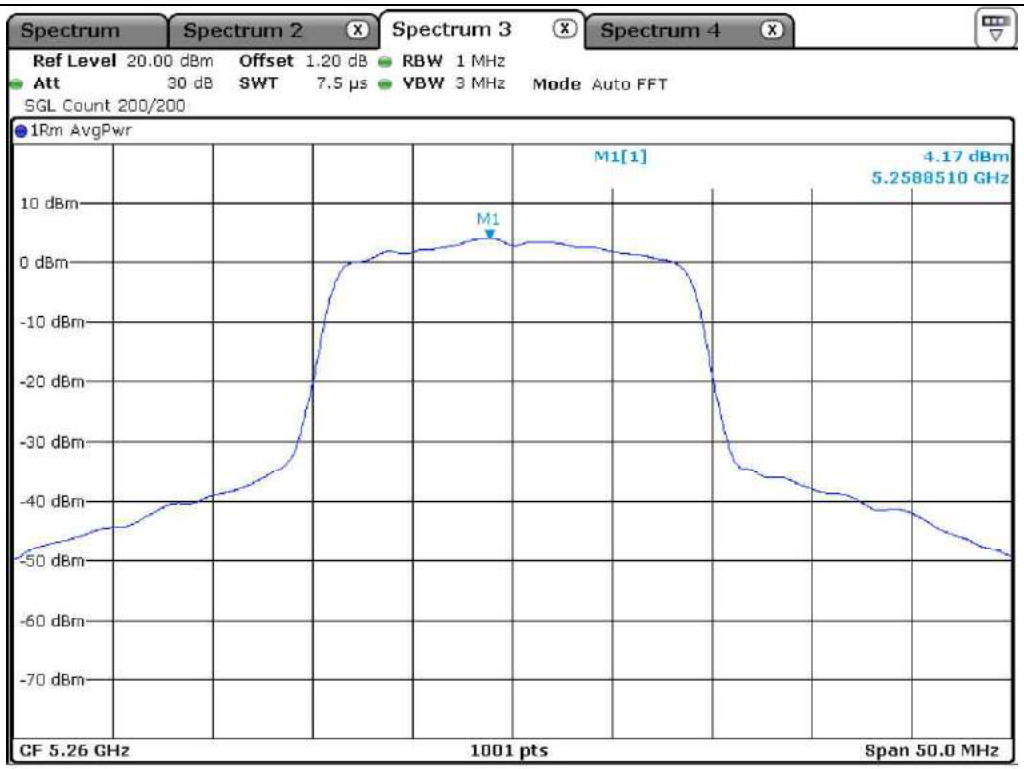
Middle Channel (5 220 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

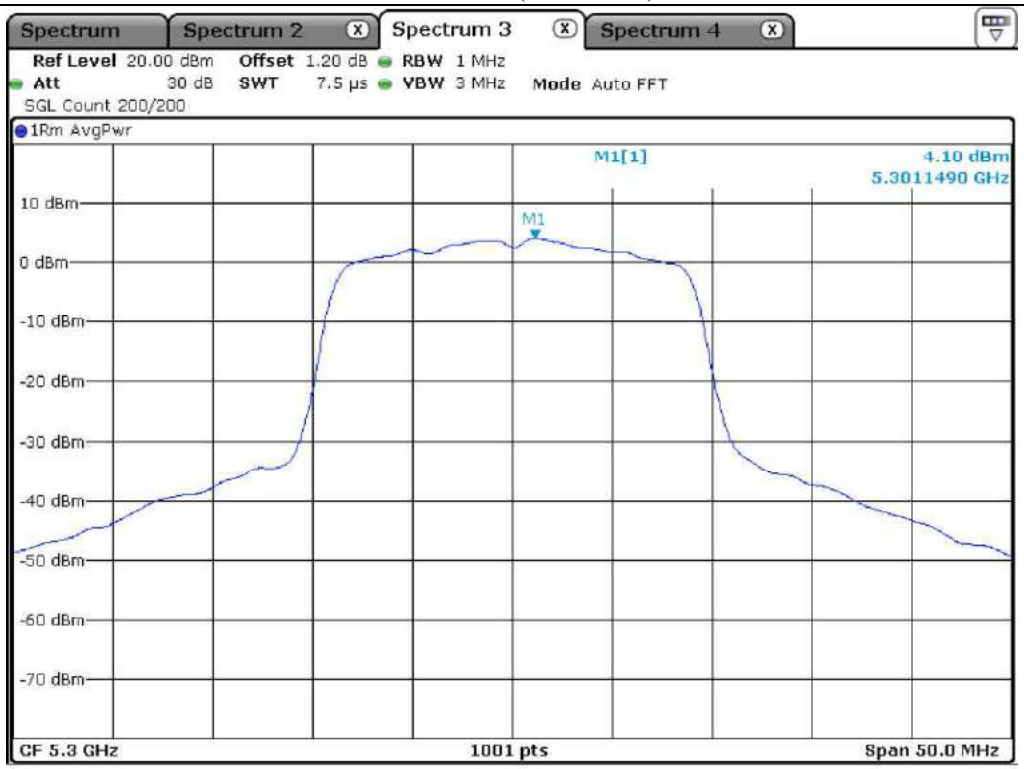


High Channel (5 240 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

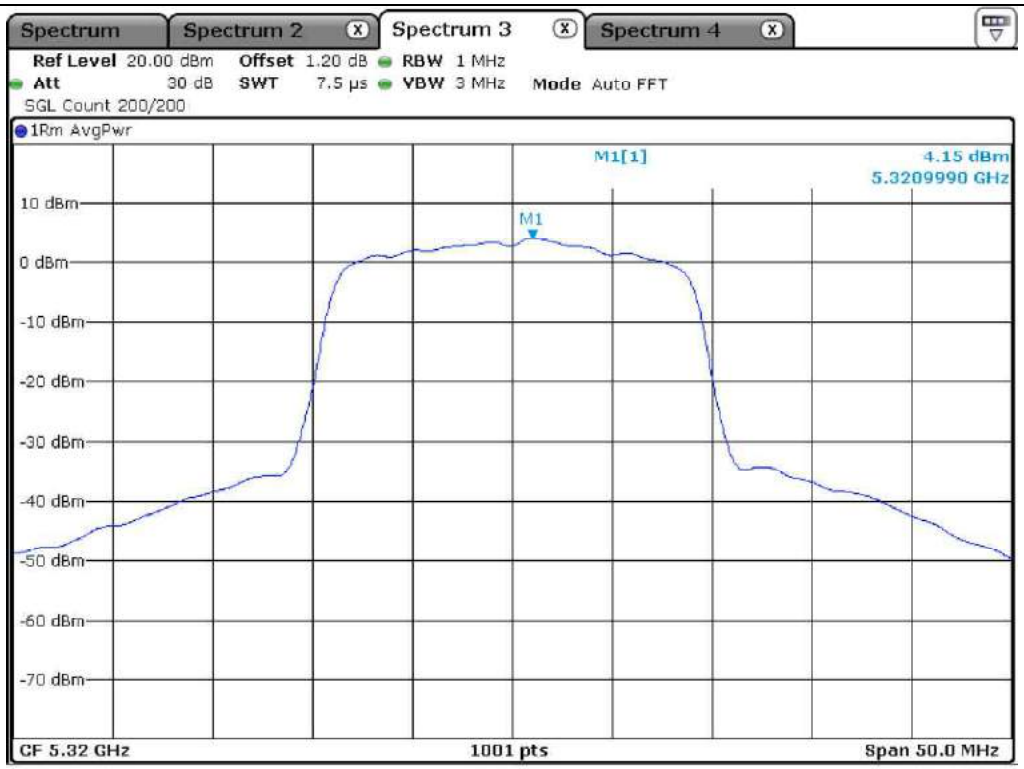


Low Channel (5 260 MHz)



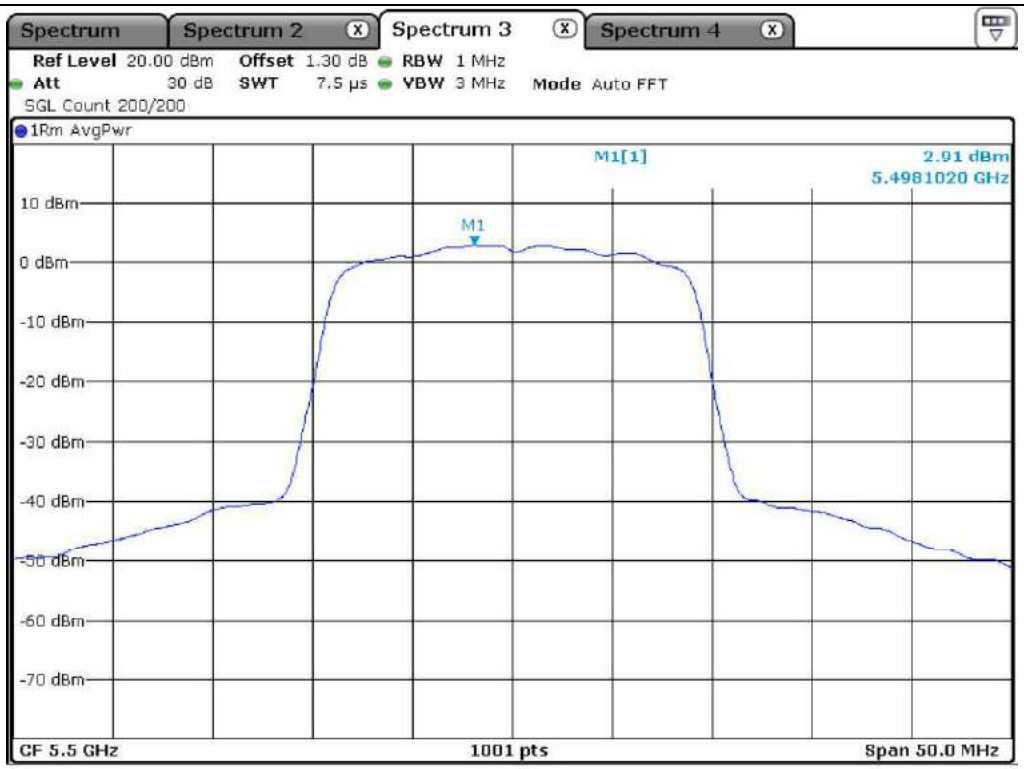
Middle Channel (5 300 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

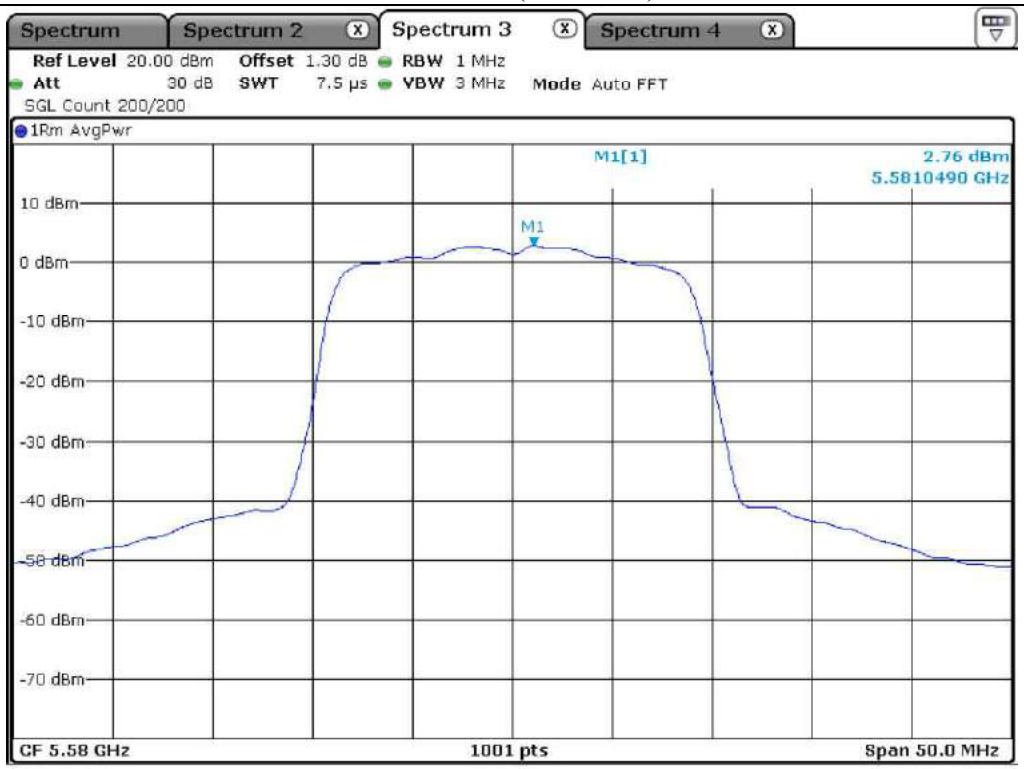


High Channel (5 320 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

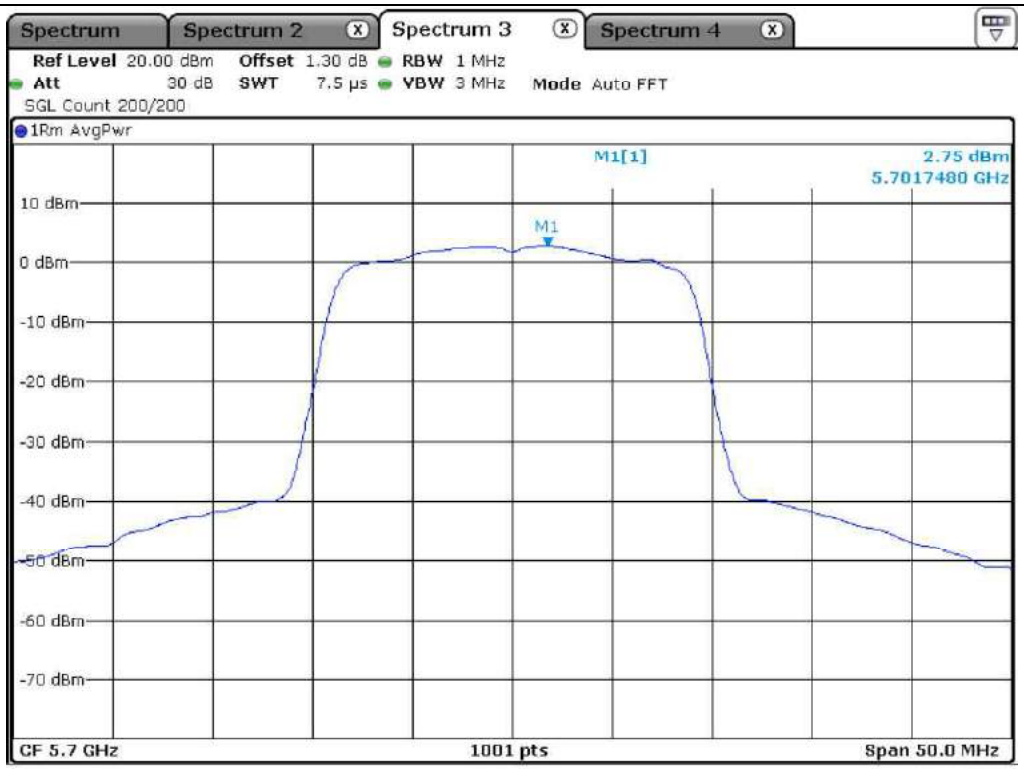


Low Channel (5 500 MHz)



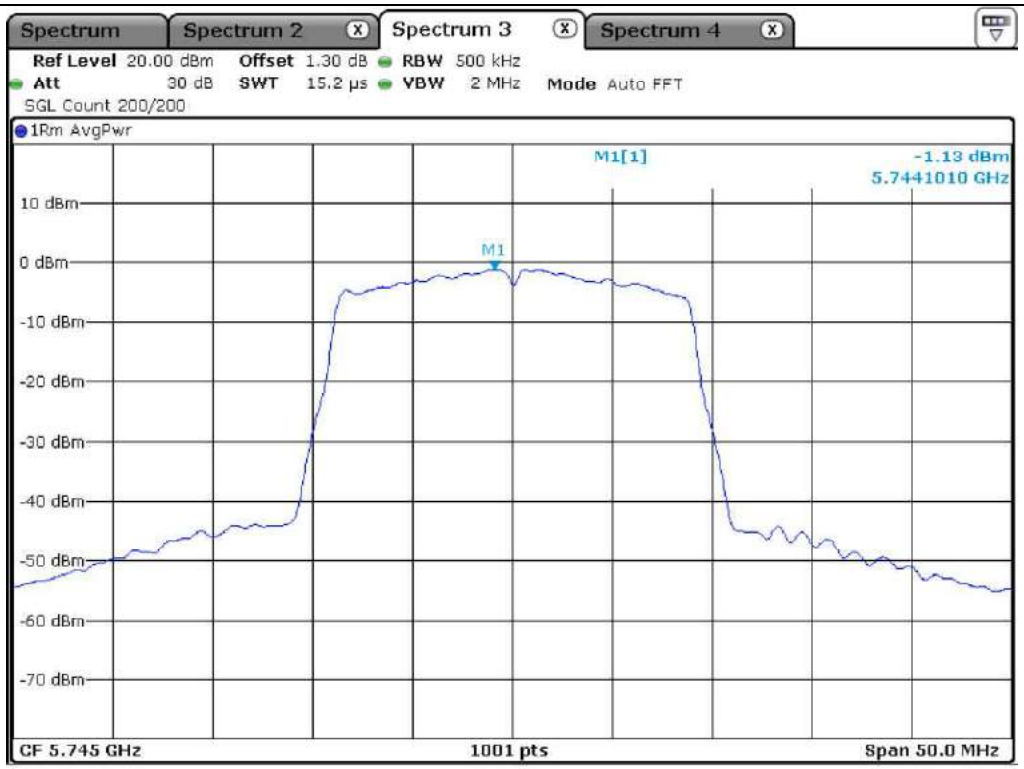
Middle Channel (5 580 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

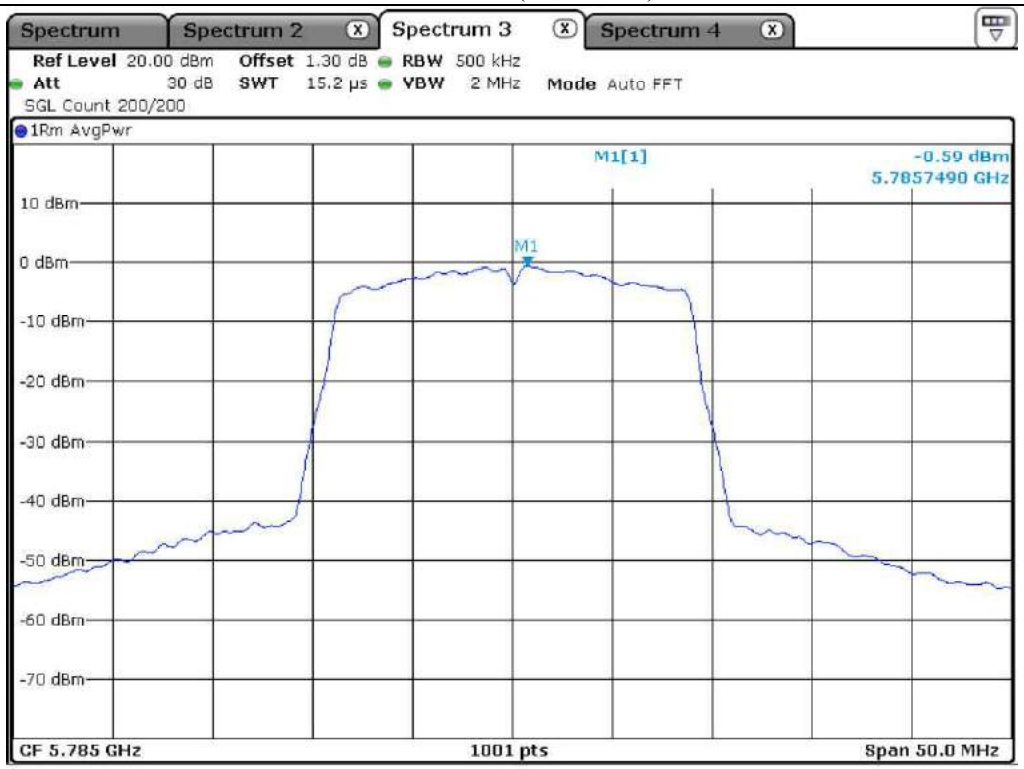


High Channel (5 700 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

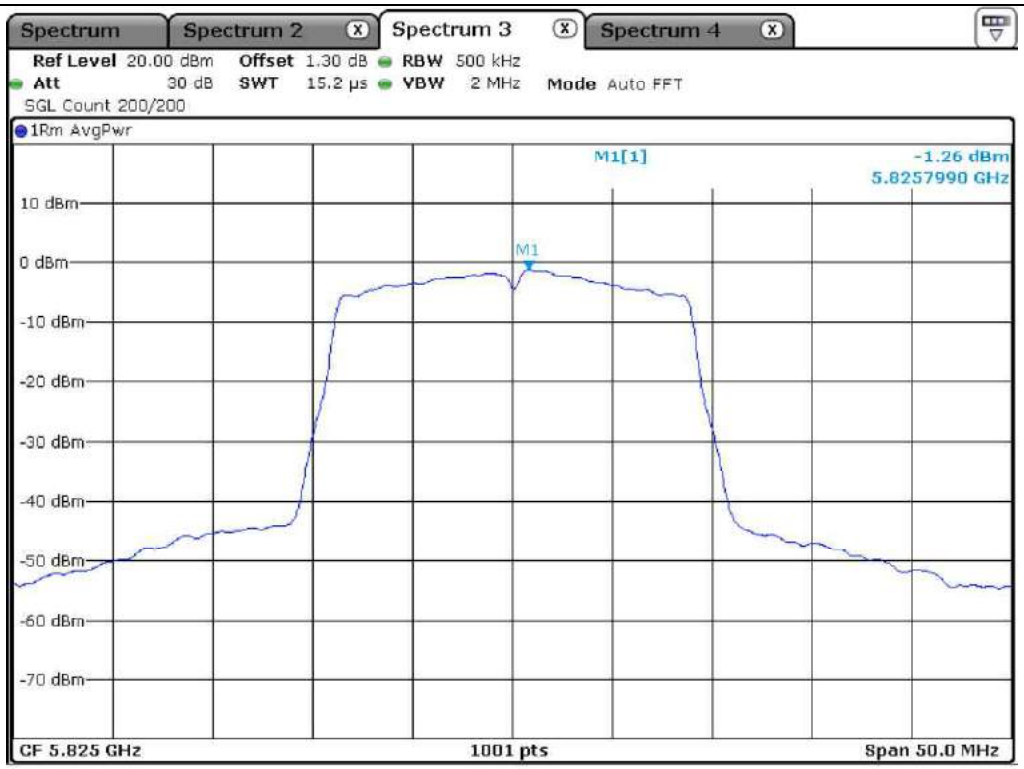


Low Channel (5 745 MHz)



Middle Channel (5 785 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



High Channel (5 825 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.5.2 Test data for Antenna 1

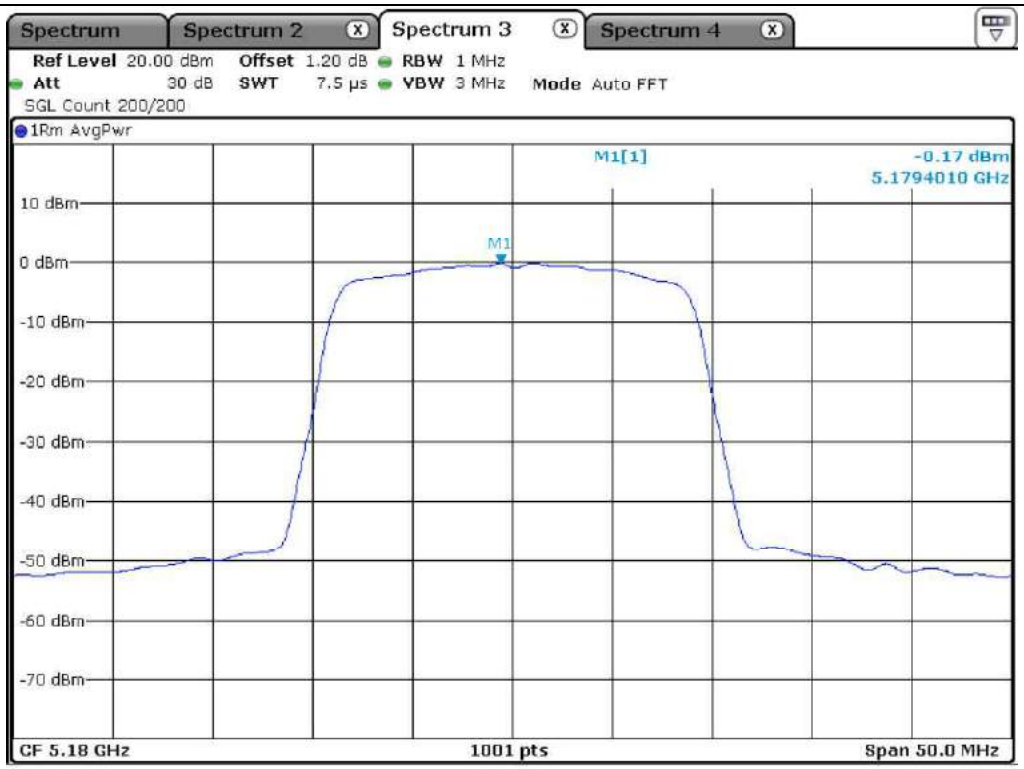
-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

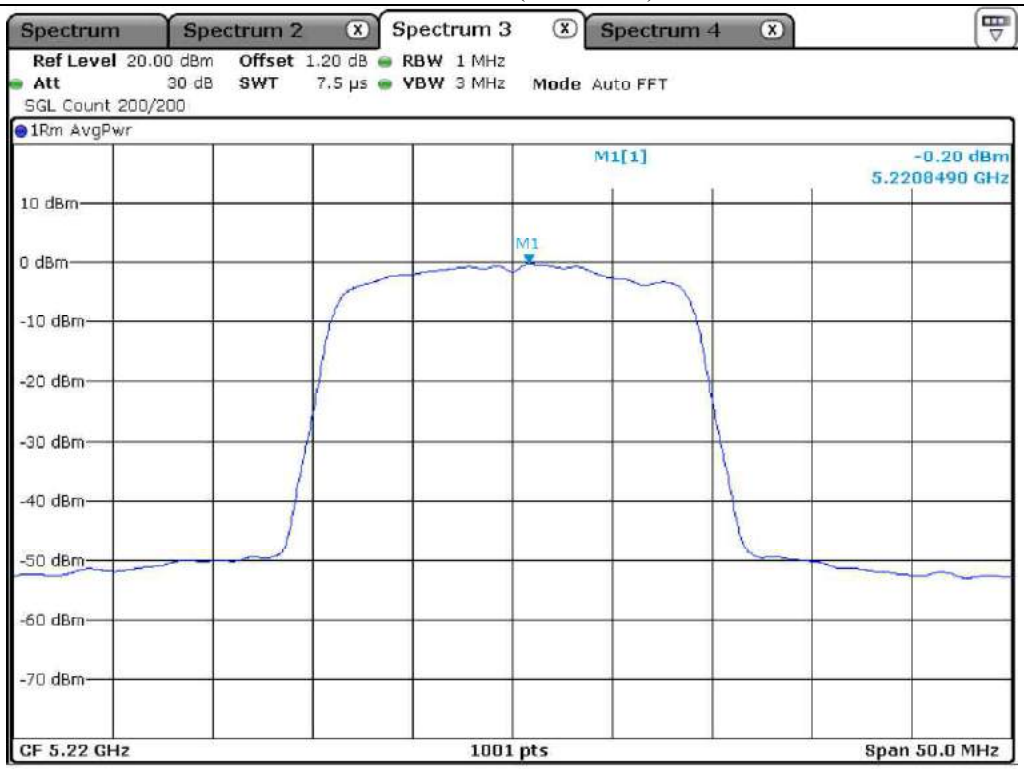
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180.00	-0.17	11.00	11.17
	Middle	5 220.00	-0.20	11.00	11.20
	High	5 240.00	-0.71	11.00	11.71
5 250 ~ 5 350	Low	5 260.00	3.25	11.00	7.75
	Middle	5 300.00	3.98	11.00	7.02
	High	5 320.00	3.75	11.00	7.25
5 470 ~ 5 725	Low	5 500.00	3.34	11.00	7.66
	Middle	5 580.00	3.14	11.00	7.86
	High	5 700.00	3.23	11.00	7.77
5 725 ~ 5 850	Low	5 745.00	-0.68	30.00	30.68
	Middle	5 785.00	-0.94	30.00	30.94
	High	5 825.00	-0.45	30.00	30.45

Remark: See next page for measurement data.

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

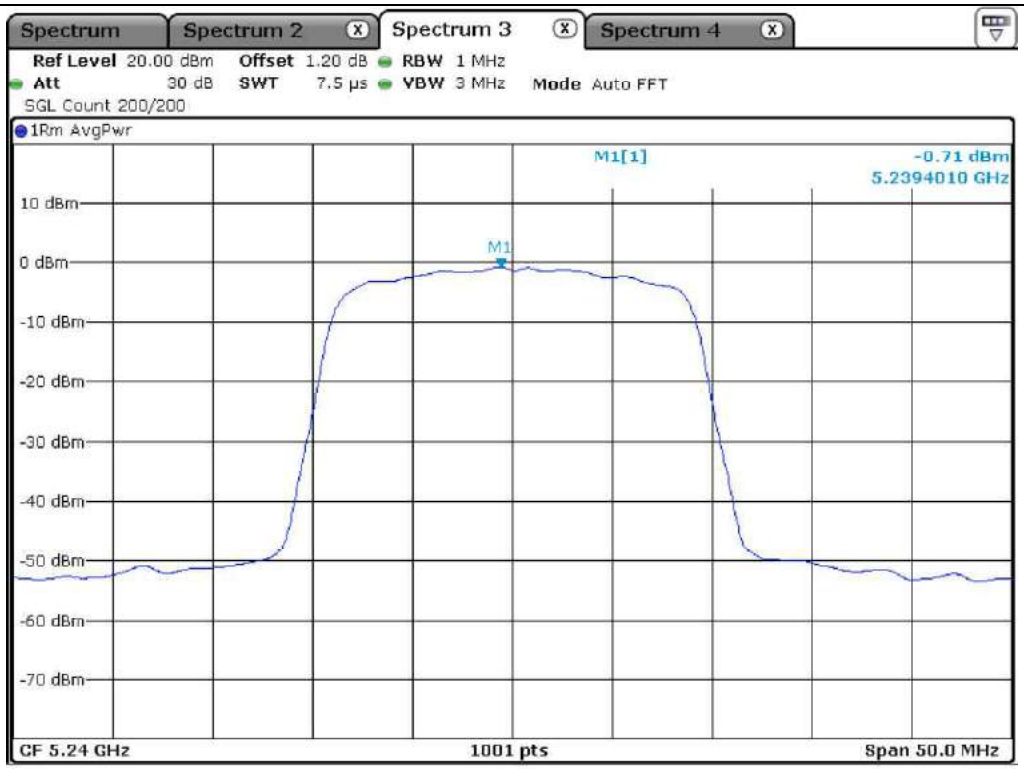


Low Channel (5 180 MHz)



Middle Channel (5 220 MHz)

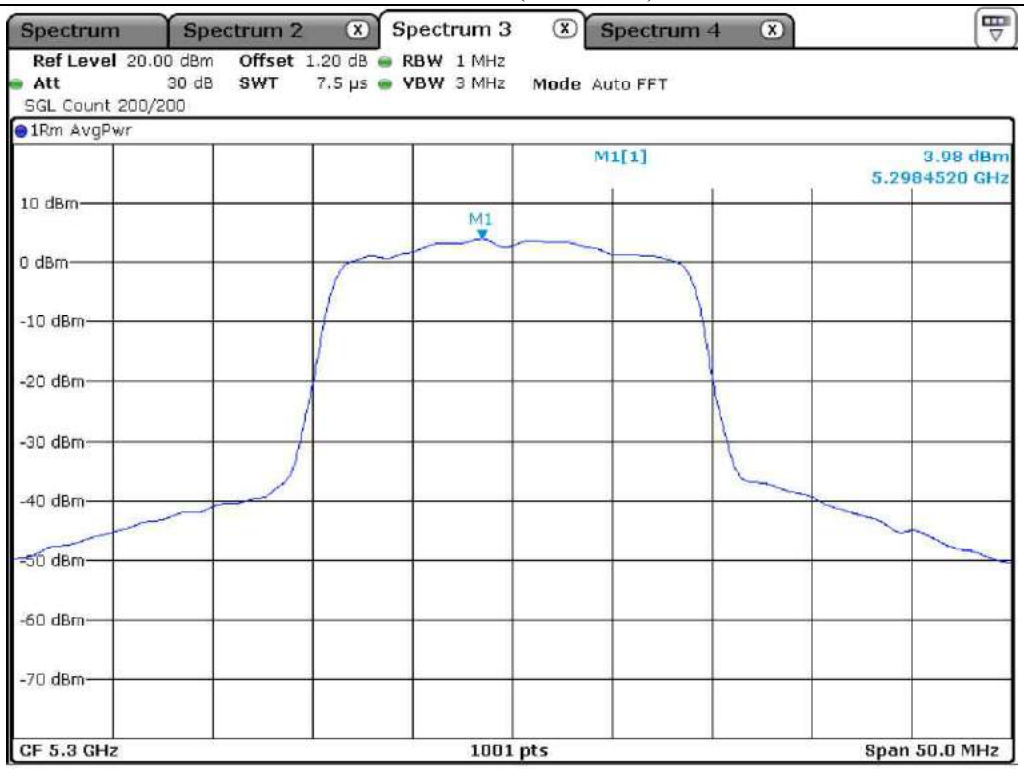
ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



High Channel (5 240 MHz)

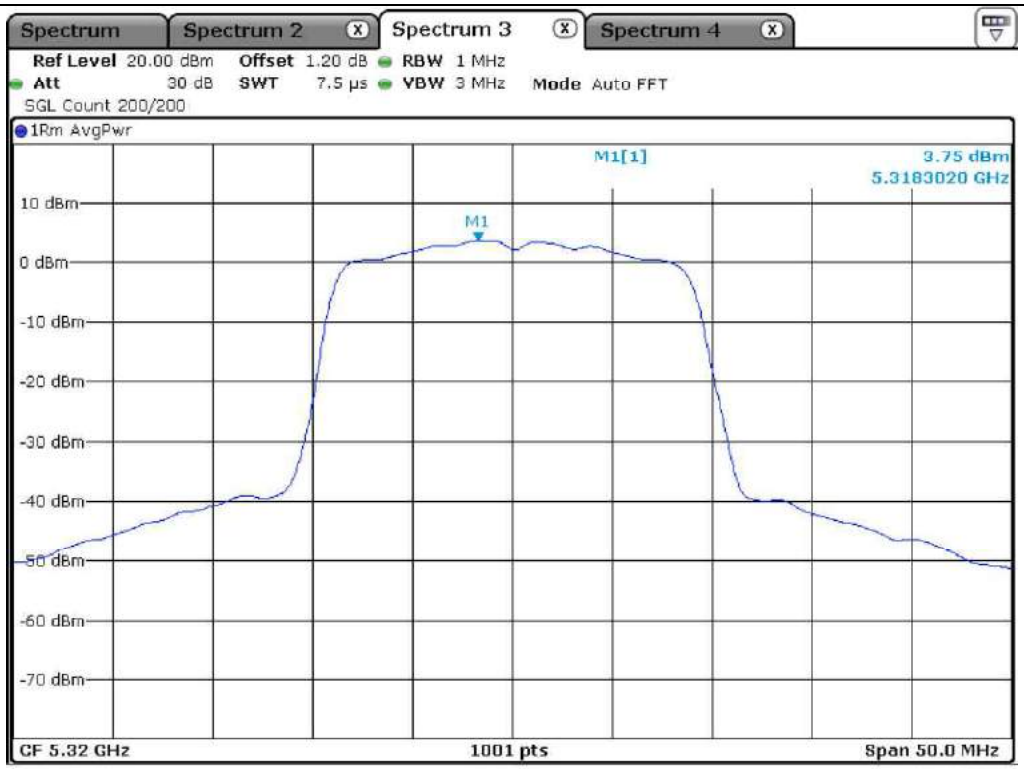
ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

Low Channel (5 260 MHz)



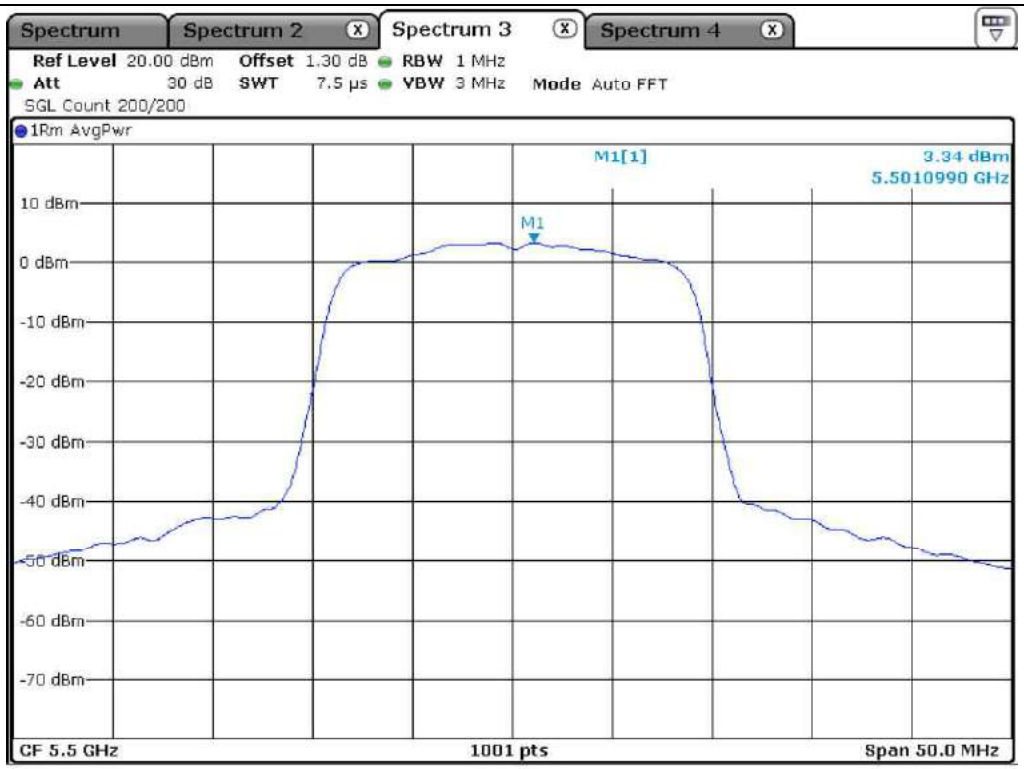
Middle Channel (5 300 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

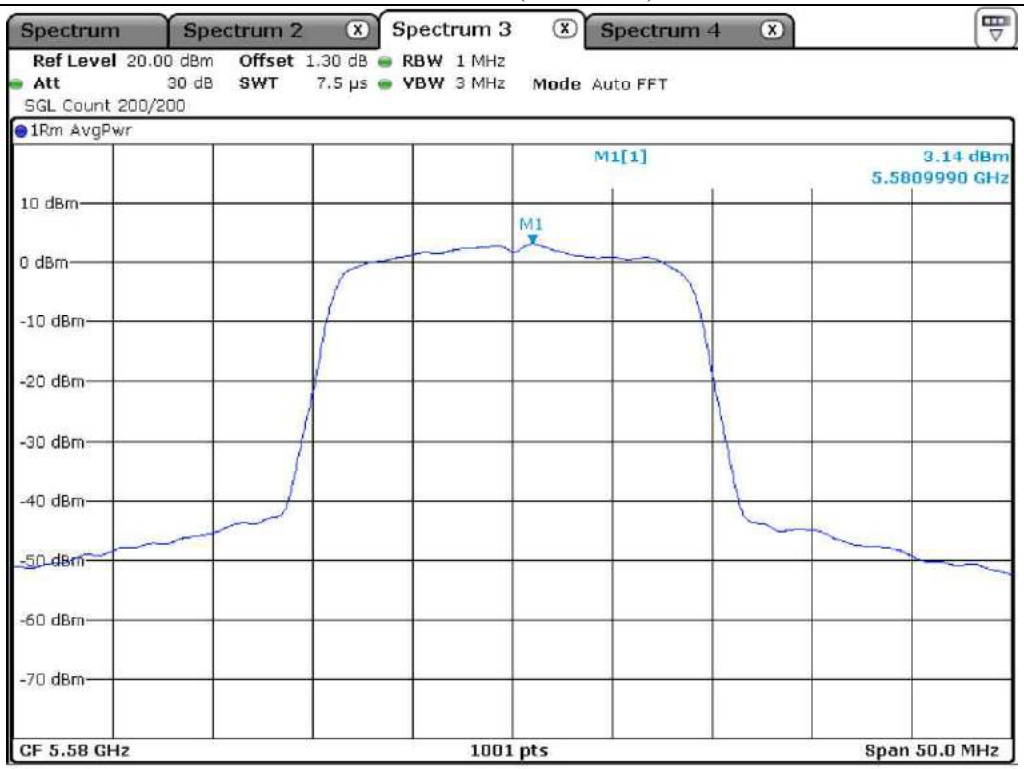


High Channel (5 320 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

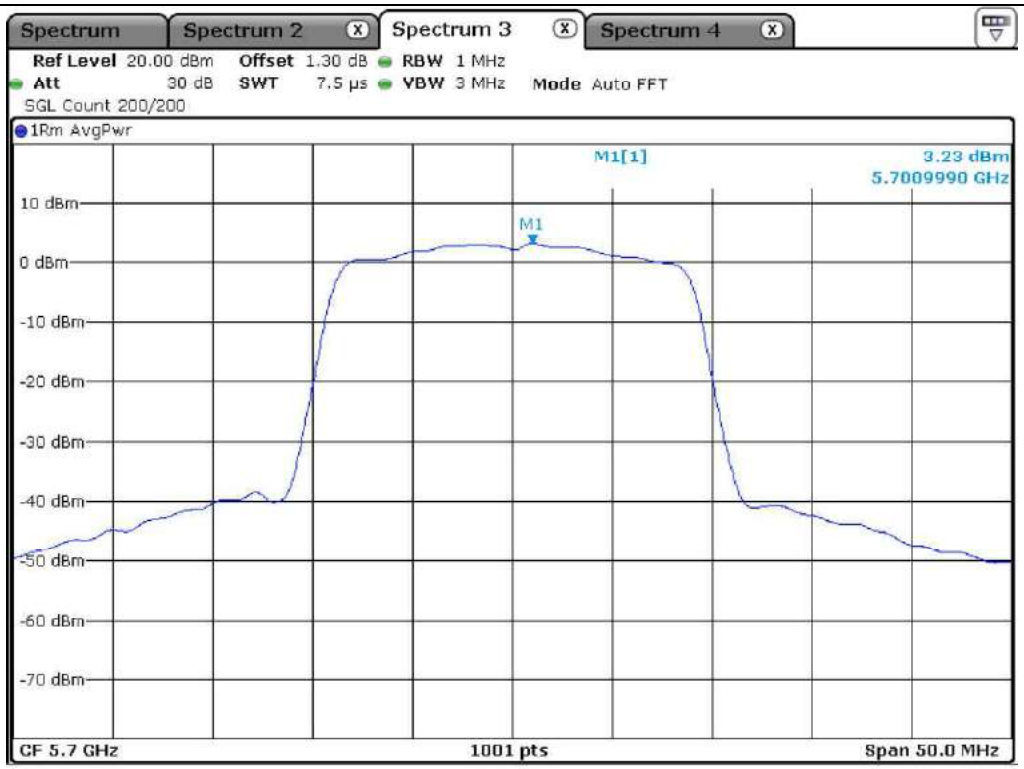


Low Channel (5 500 MHz)



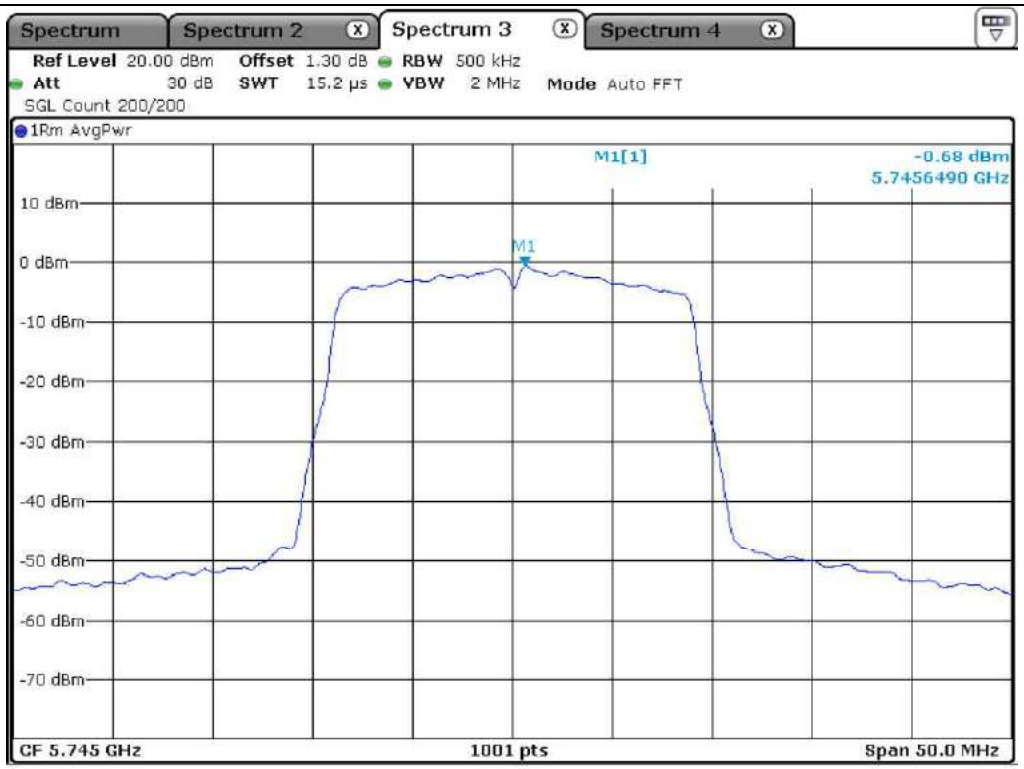
Middle Channel (5 580 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

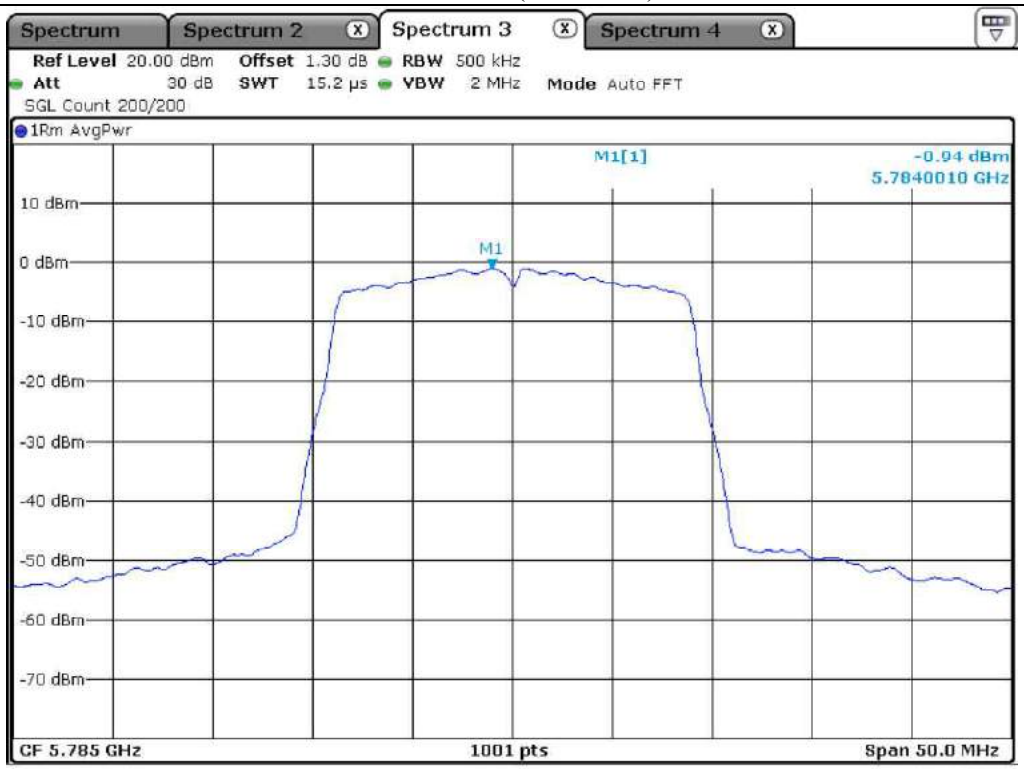


High Channel (5 700 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

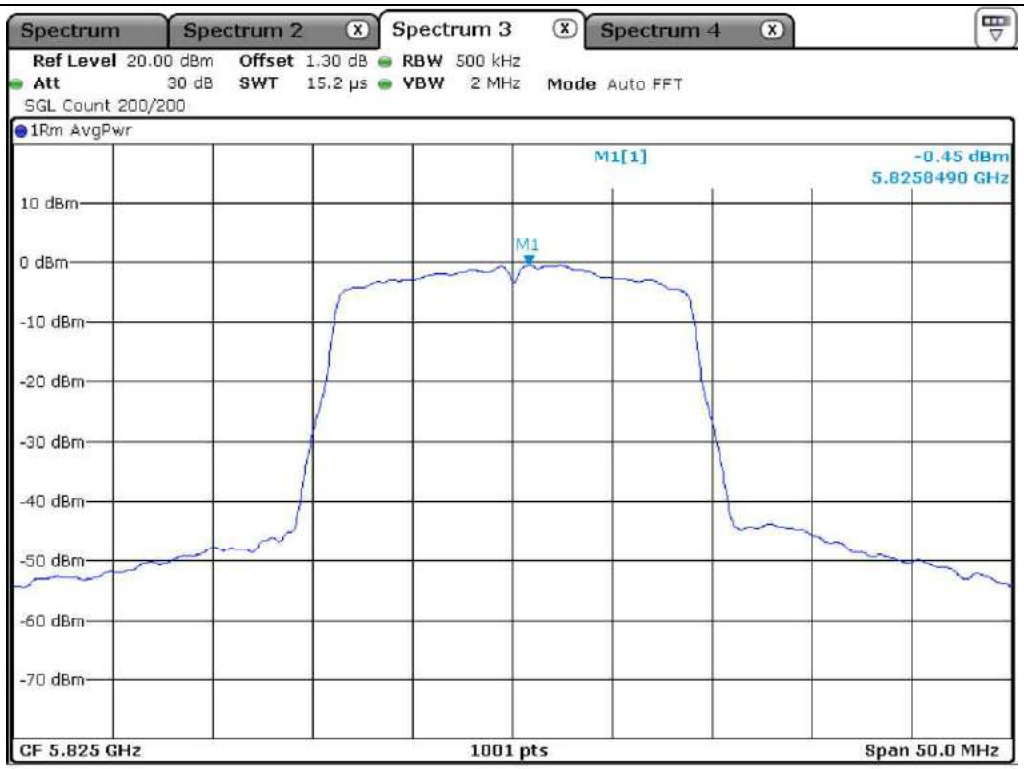


Low Channel (5 745 MHz)



Middle Channel (5 785 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



High Channel (5 825 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.5.3 Test data for Multiple Transmit

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180.00	3.11	11.00	7.89
	Middle	5 220.00	2.94	11.00	8.06
	High	5 240.00	2.69	11.00	8.31
5 250 ~ 5 350	Low	5 260.00	6.74	11.00	4.26
	Middle	5 300.00	7.05	11.00	3.95
	High	5 320.00	6.96	11.00	4.04
5 470 ~ 5 725	Low	5 500.00	6.14	11.00	4.86
	Middle	5 550.00	5.96	11.00	5.04
	High	5 720.00	6.01	11.00	4.99
5 725 ~ 5 850	Low	5 745.00	2.11	30.00	27.89
	Middle	5 785.00	2.25	30.00	27.75
	High	5 825.00	2.17	30.00	27.83

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10.5.4 Test data for Staddle Channel_Antenna 0

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720.00	3.08	11.00	7.92
5 725 ~ 5 850	5 720.00	-3.03	30.00	33.03

Remark: See next page for measurement data.

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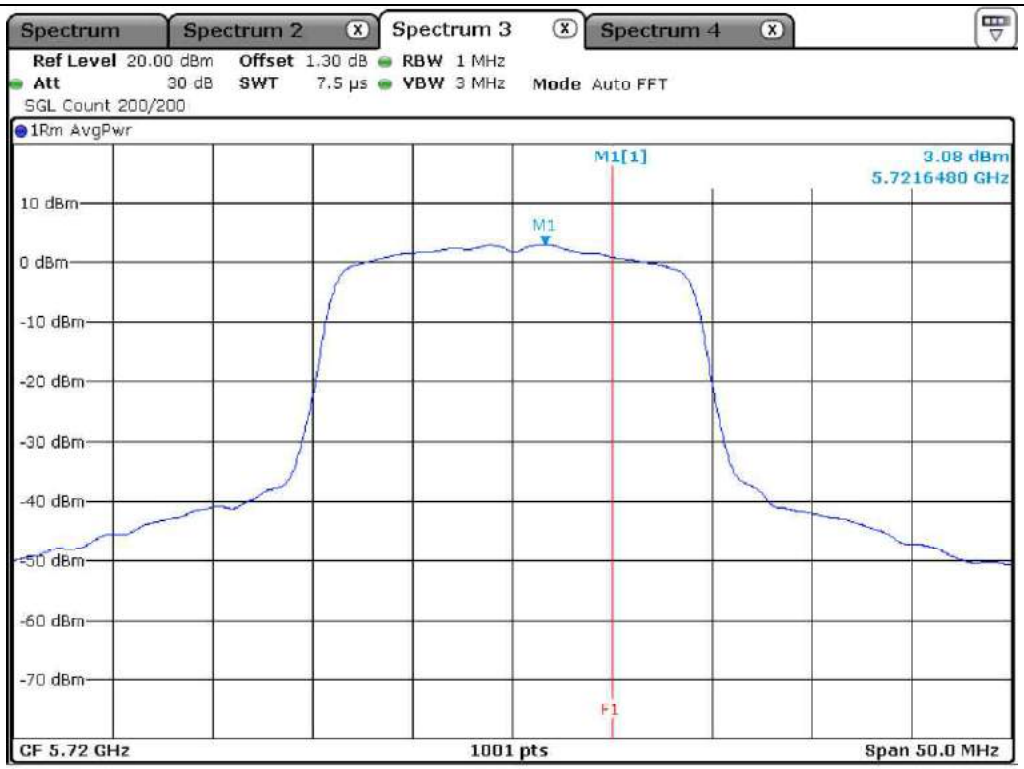

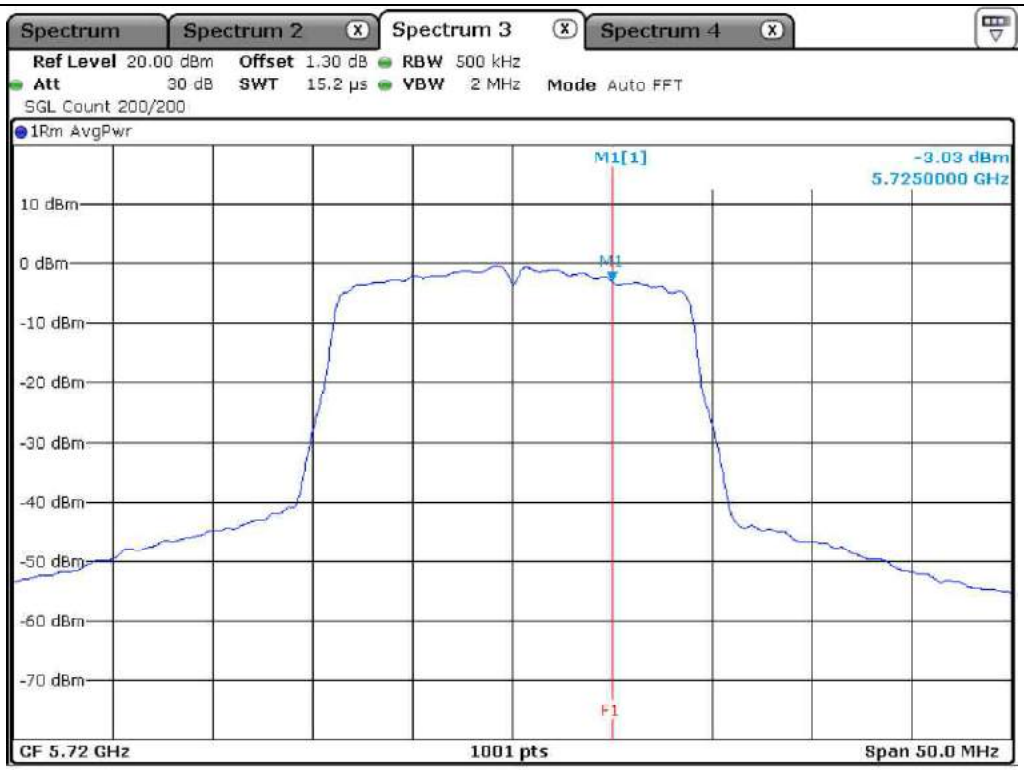

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.5.5 Test data for Staddle Channel_Antenna 1

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720.00	3.12	11.00	7.88
5 725 ~ 5 850	5 720.00	-2.59	30.00	32.59

Remark: See next page for measurement data.

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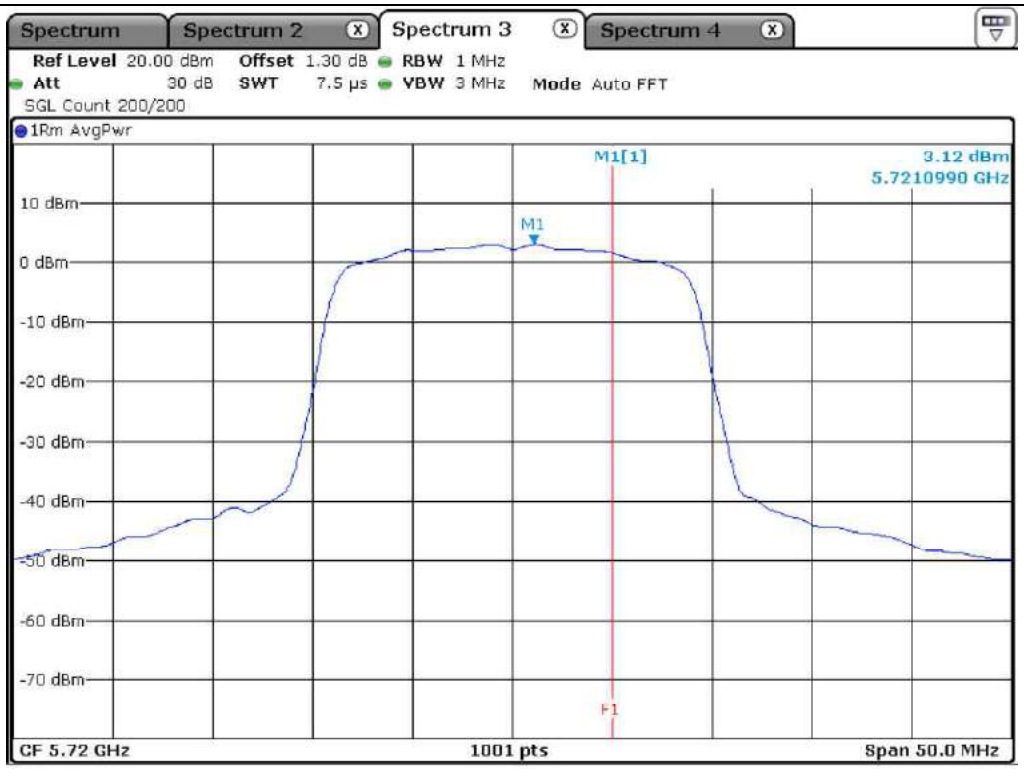

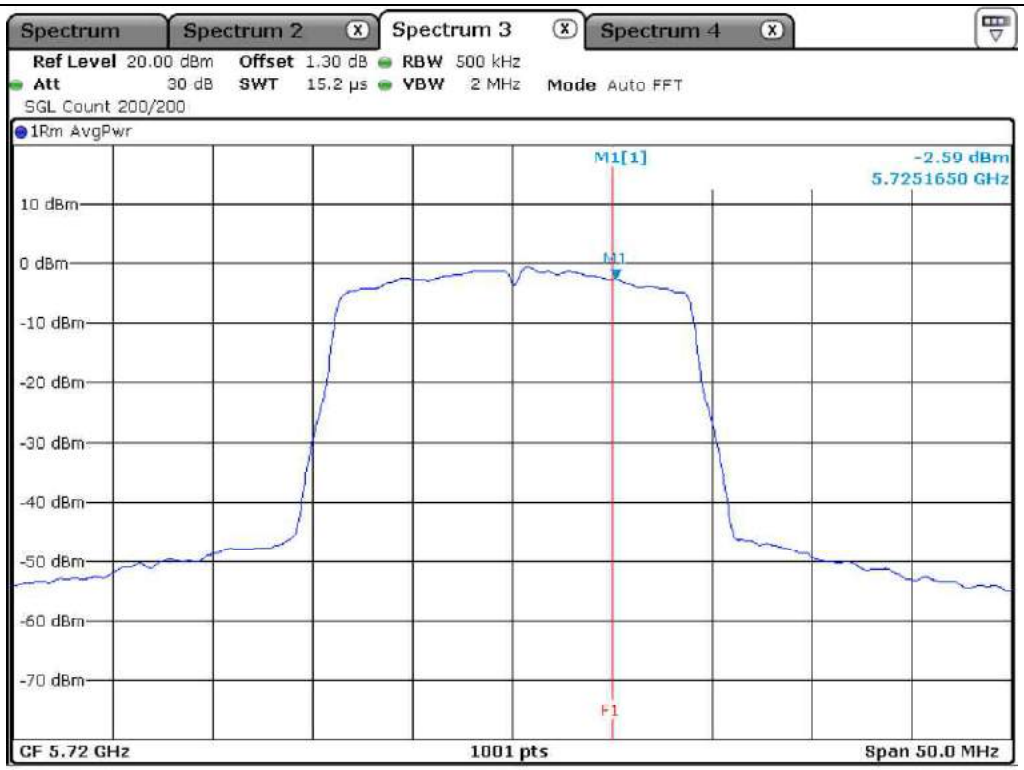

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.5.6 Test data for Staddle Channel_Multiple Transmit

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720.00	6.11	11.00	4.89
5 725 ~ 5 850	5 720.00	0.21	30.00	29.79

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10.6 Test data for 802.11n_HT40 RLAN Mode

10.6.1 Test data for Antenna 0

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190.00	-2.27	11.00	13.27
	High	5 230.00	-2.27	11.00	13.27
5 250 ~ 5 350	Low	5 270.00	-1.28	11.00	12.28
	High	5 310.00	-0.95	11.00	11.95
5 470 ~ 5 725	Low	5 510.00	-2.16	11.00	13.16
	Middle	5 550.00	-2.07	11.00	13.07
	High	5 670.00	-2.39	11.00	13.39
5 725 ~ 5 850	Low	5 755.00	-6.33	30.00	36.33
	High	5 795.00	-6.01	30.00	36.01

Remark: See next page for measurement data.

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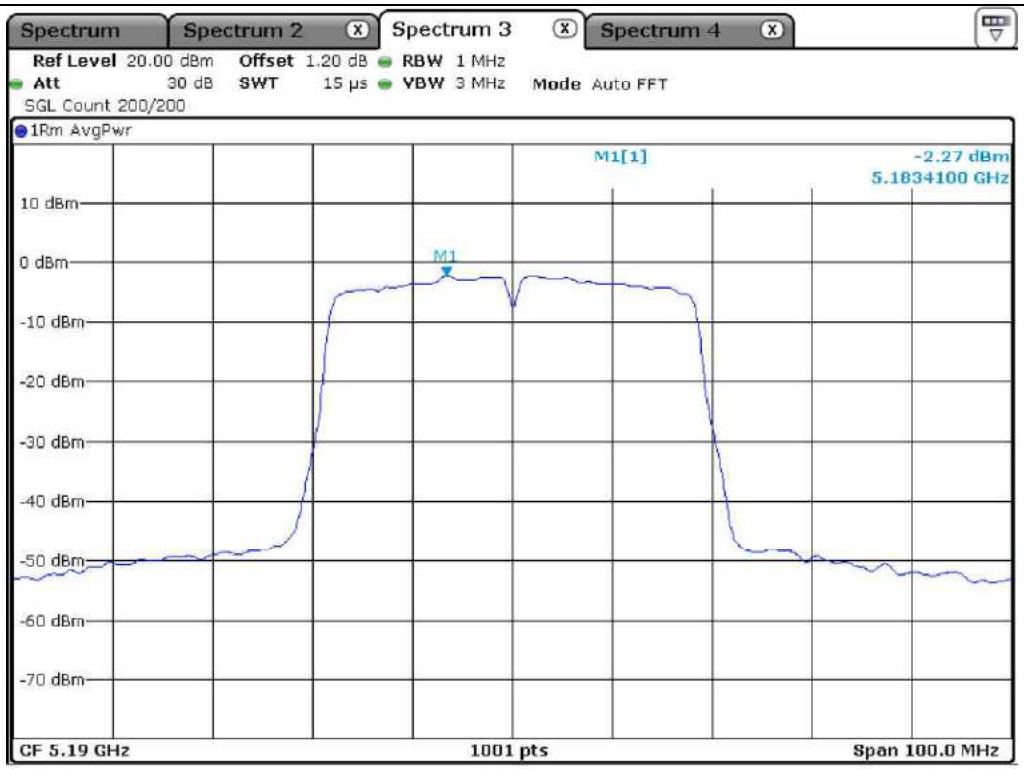
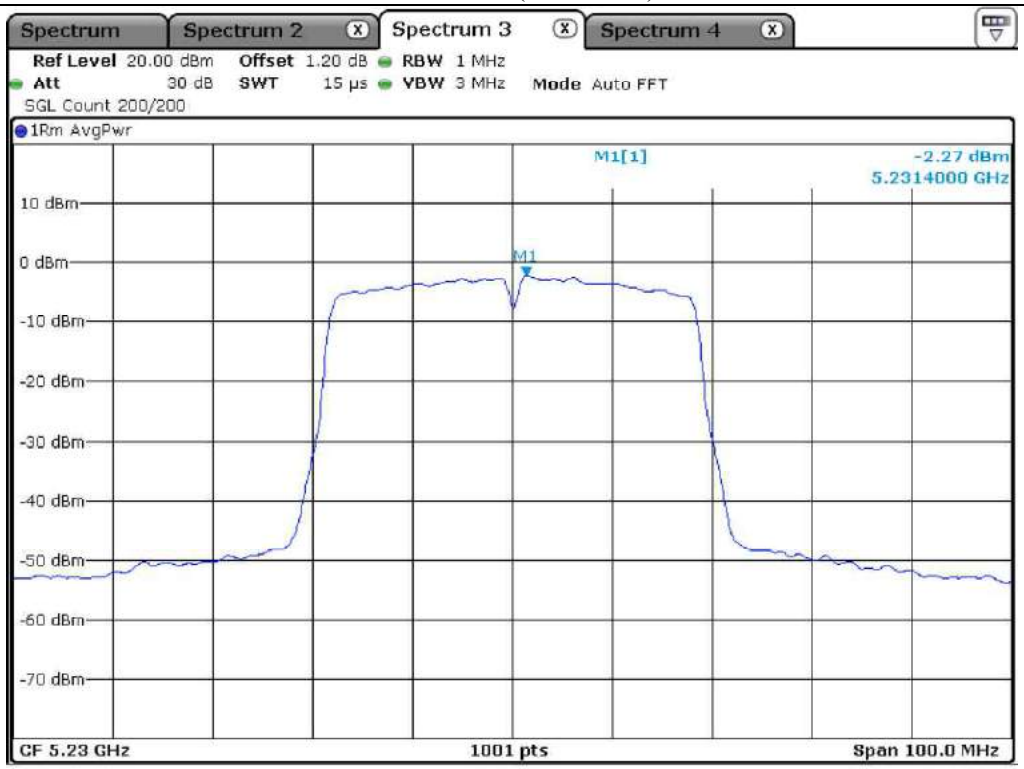
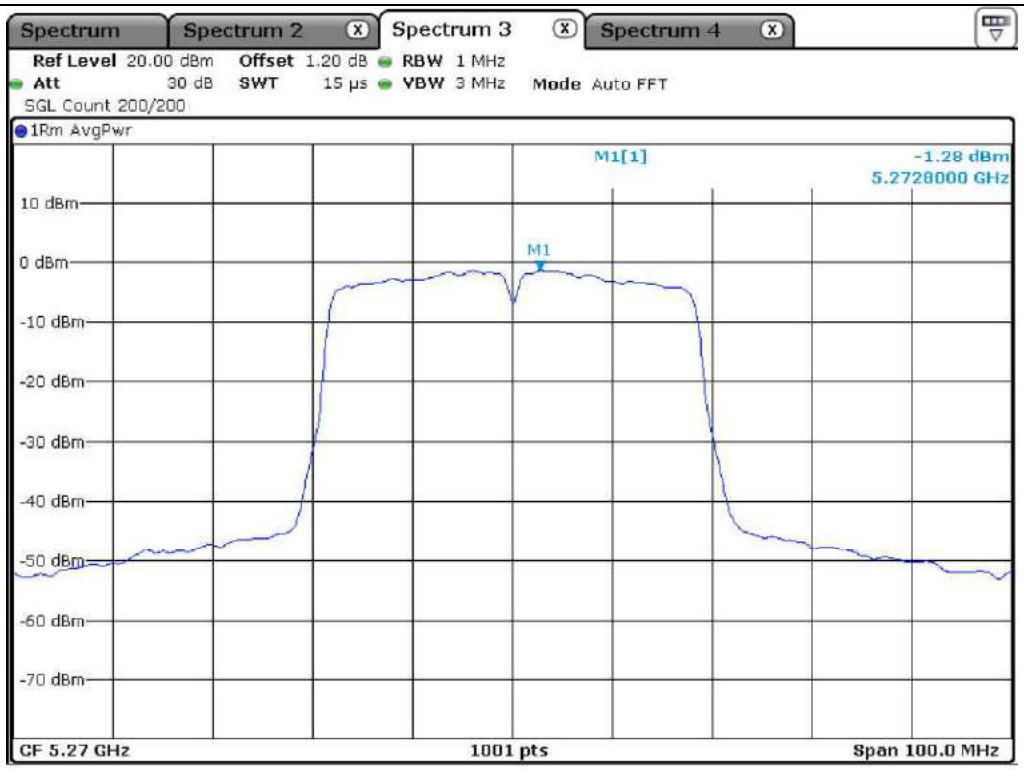


Low Channel (5 190 MHz)

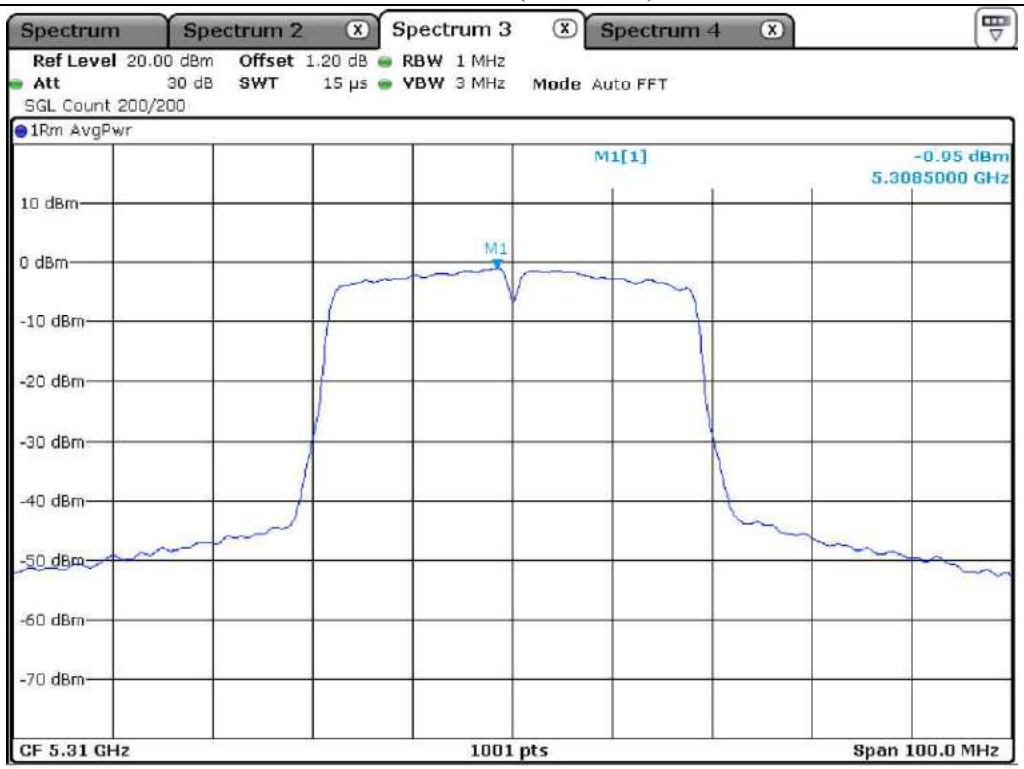


High Channel (5 230 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

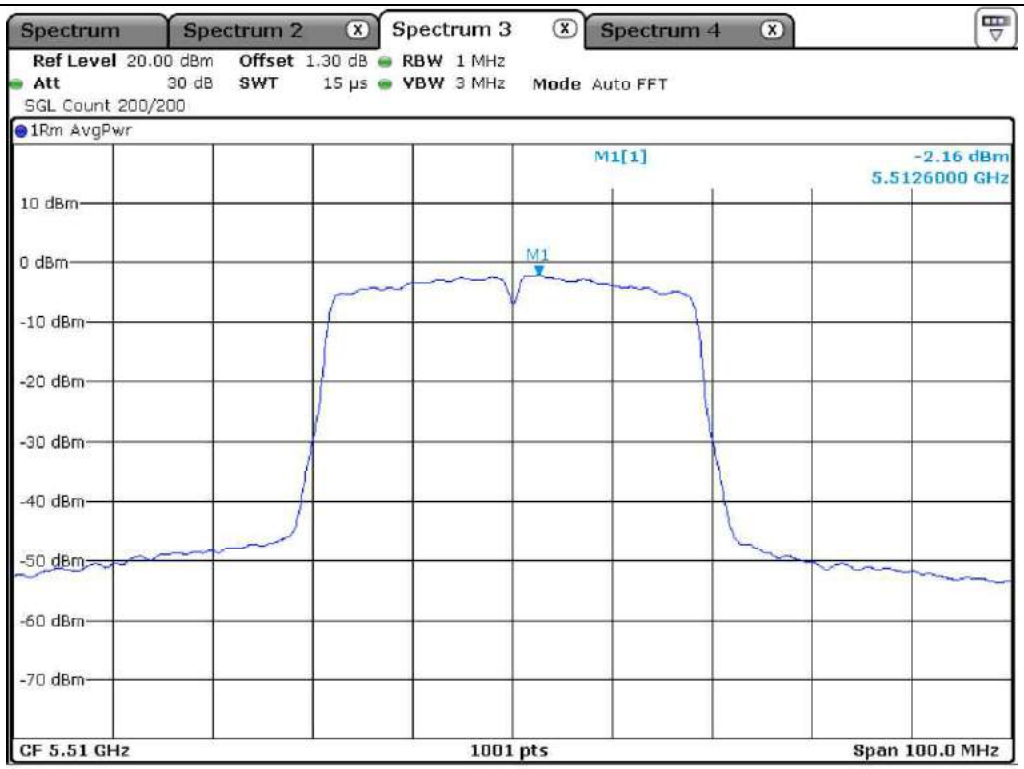


Low Channel (5 270 MHz)

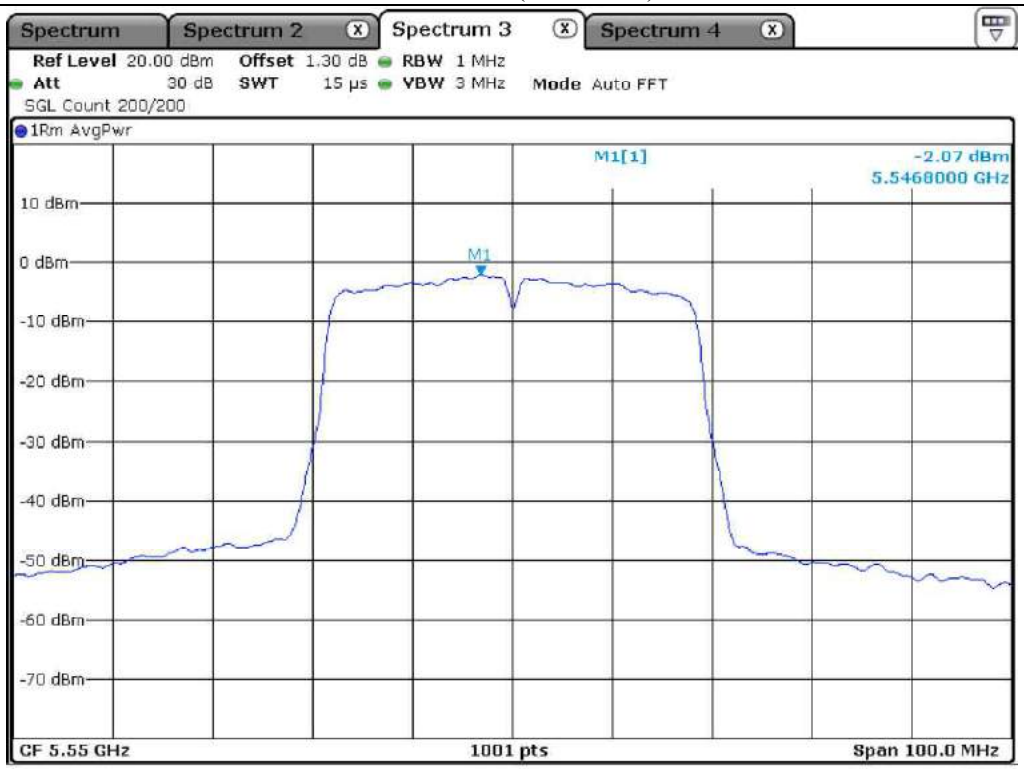


High Channel (5 310 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

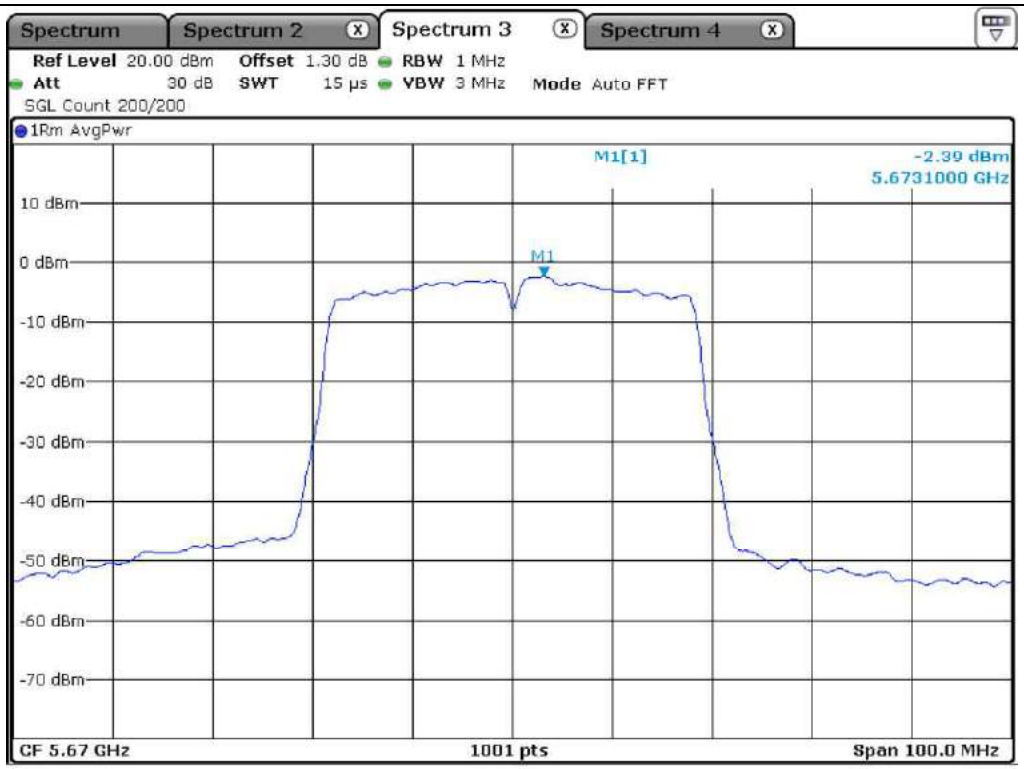


Low Channel (5 510 MHz)

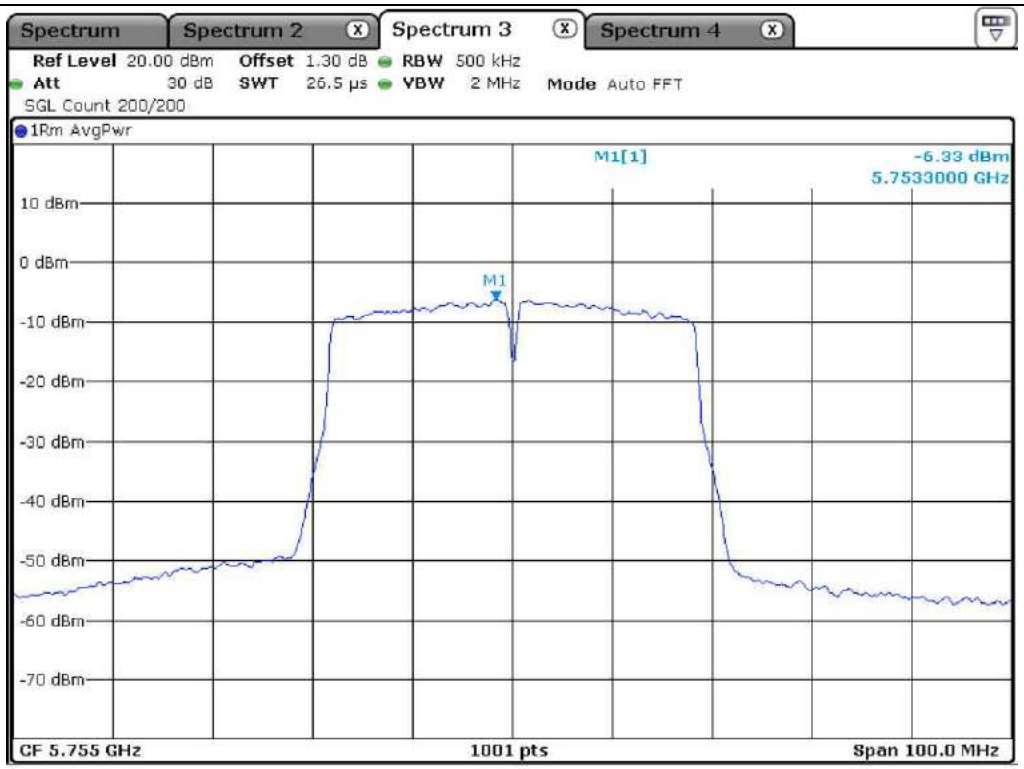


Middle Channel (5 550 MHz)

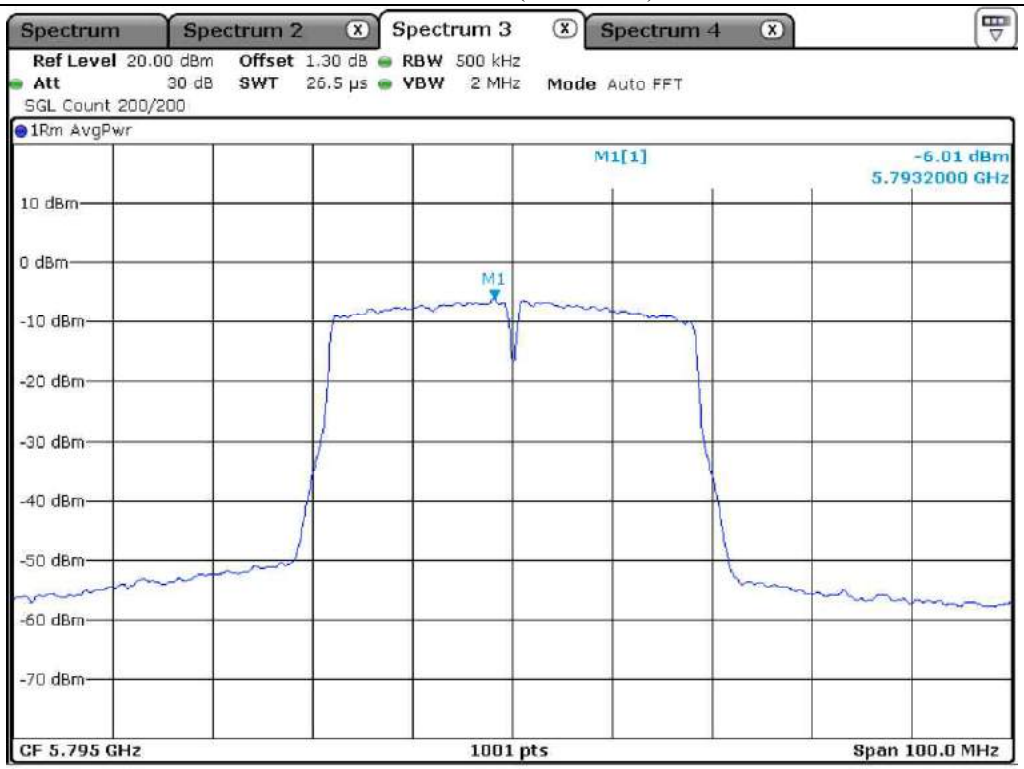
ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



High Channel (5 670 MHz)



Low Channel (5 755 MHz)



High Channel (5 795 MHz)

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10.6.2 Test data for Antenna 1

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190.00	-2.57	11.00	13.57
	High	5 230.00	-2.51	11.00	13.51
5 250 ~ 5 350	Low	5 270.00	-2.06	11.00	13.06
	High	5 310.00	-1.35	11.00	12.35
5 470 ~ 5 725	Low	5 510.00	-1.30	11.00	12.30
	Middle	5 550.00	-1.67	11.00	12.67
	High	5 670.00	-0.86	11.00	11.86
5 725 ~ 5 850	Low	5 755.00	-5.81	30.00	35.81
	High	5 795.00	-6.72	30.00	36.72

Remark: See next page for measurement data.

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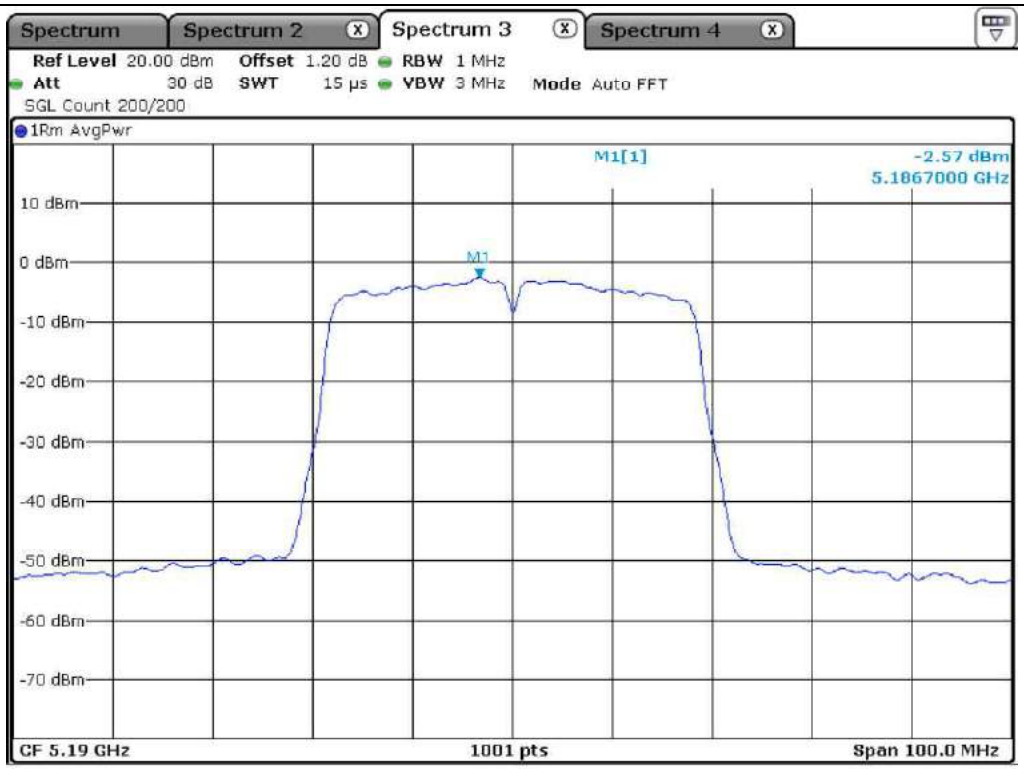
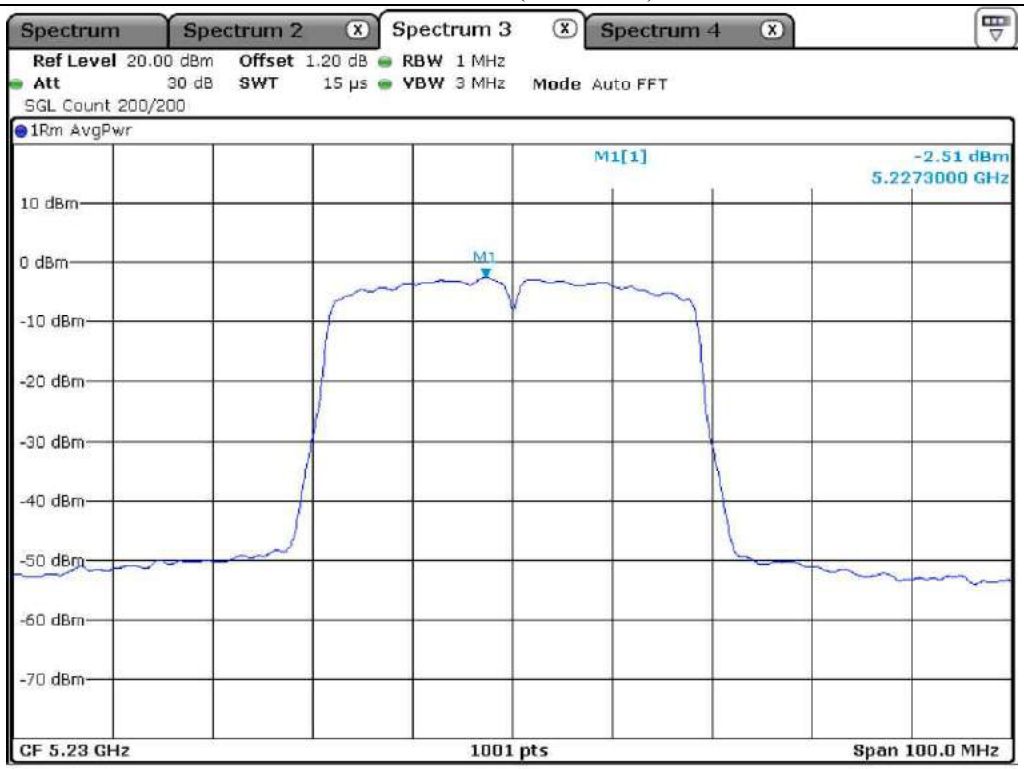
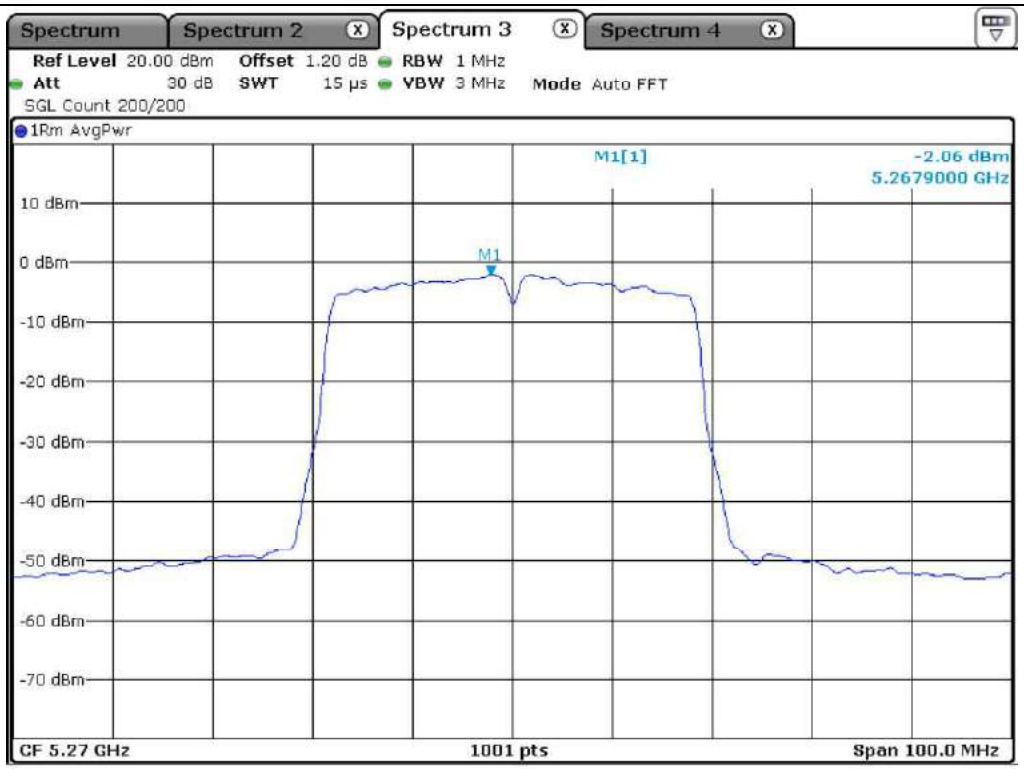


Low Channel (5 190 MHz)

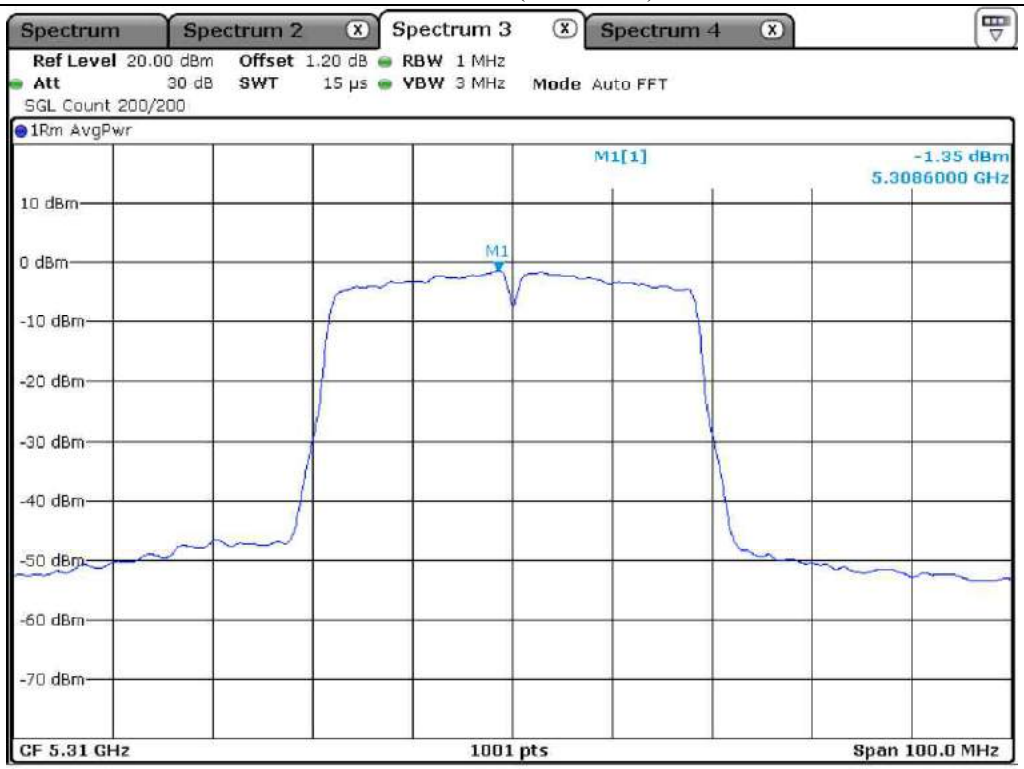


High Channel (5 230 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

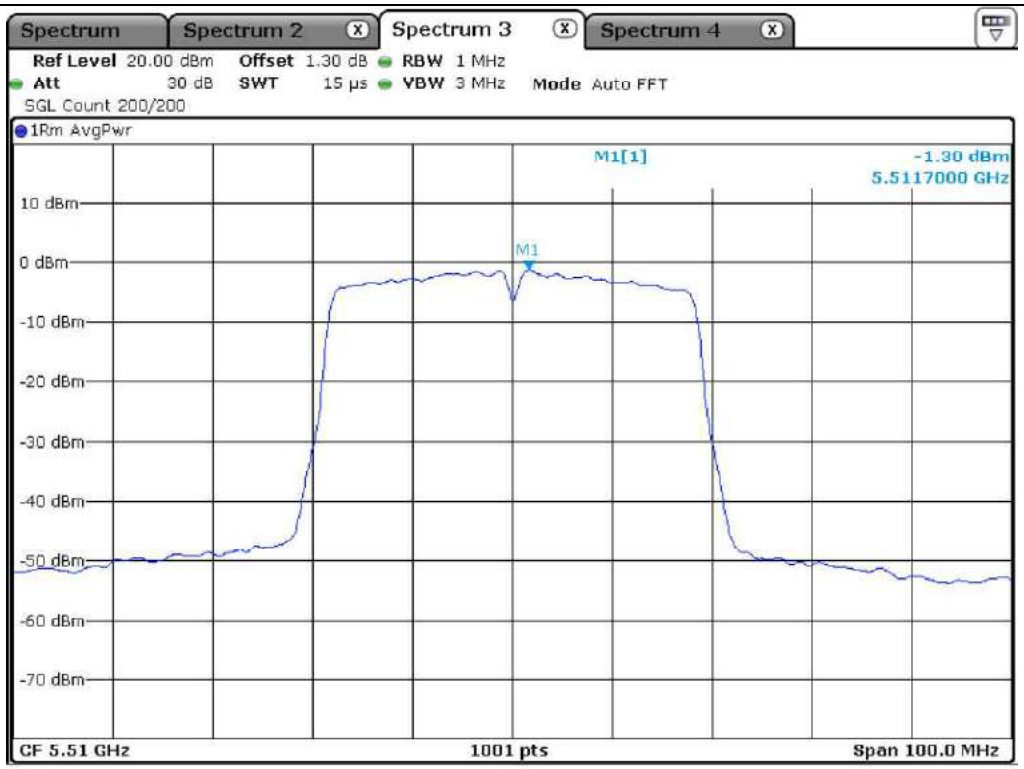


Low Channel (5 270 MHz)

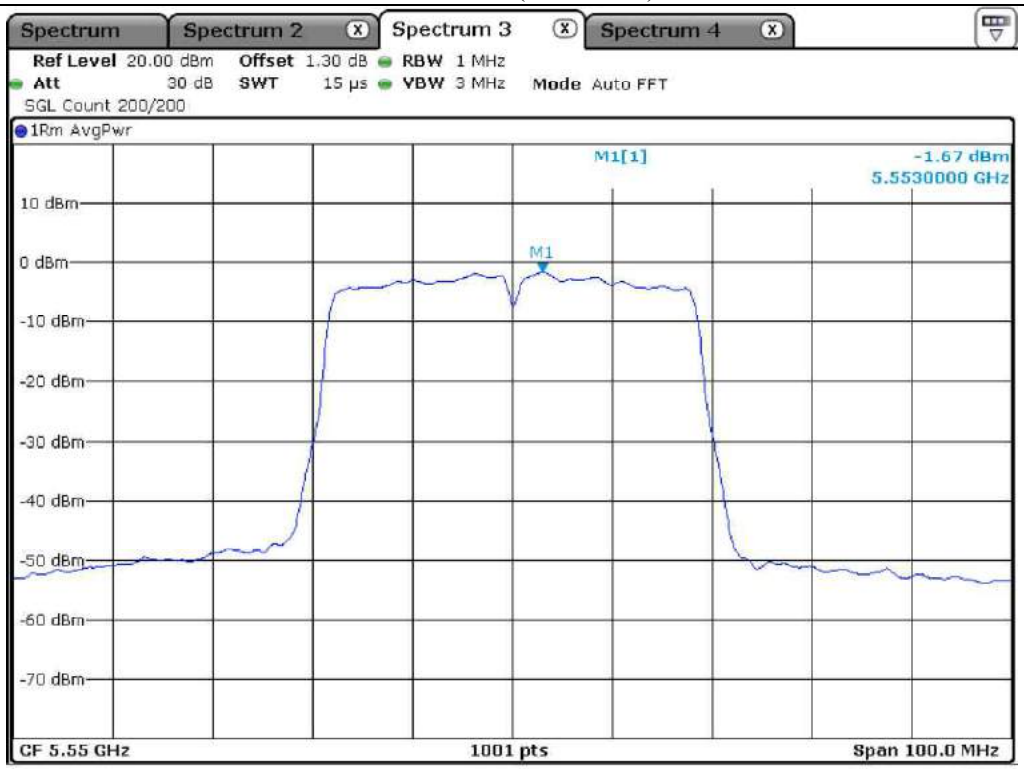


High Channel (5 310 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

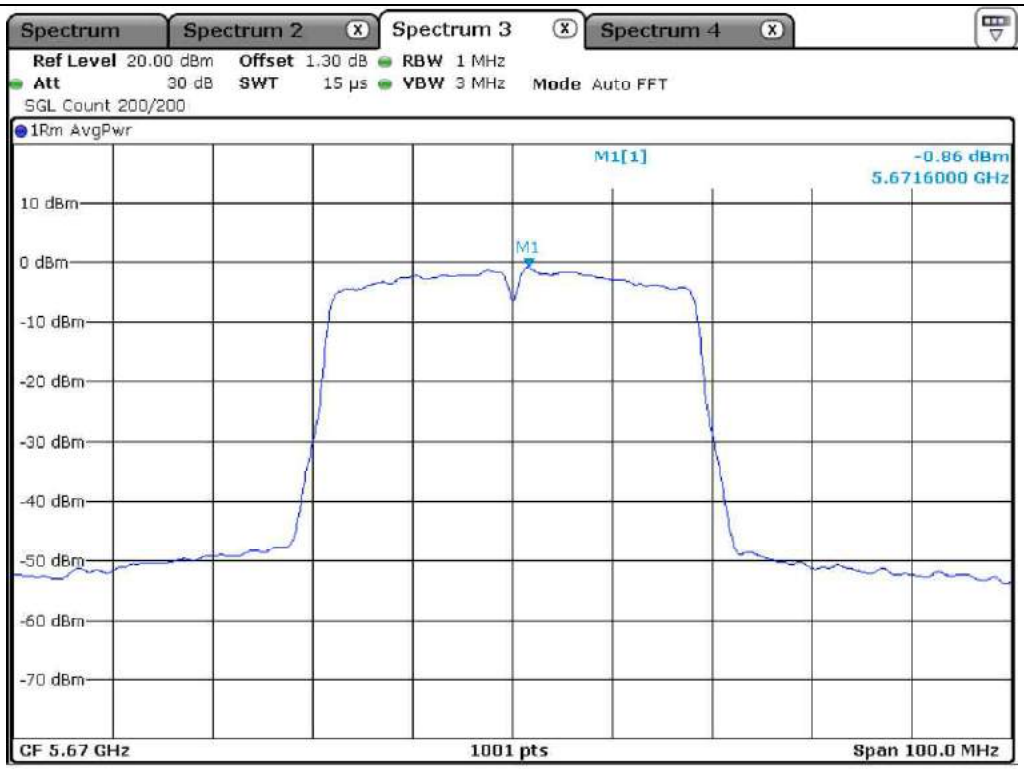


Low Channel (5 510 MHz)



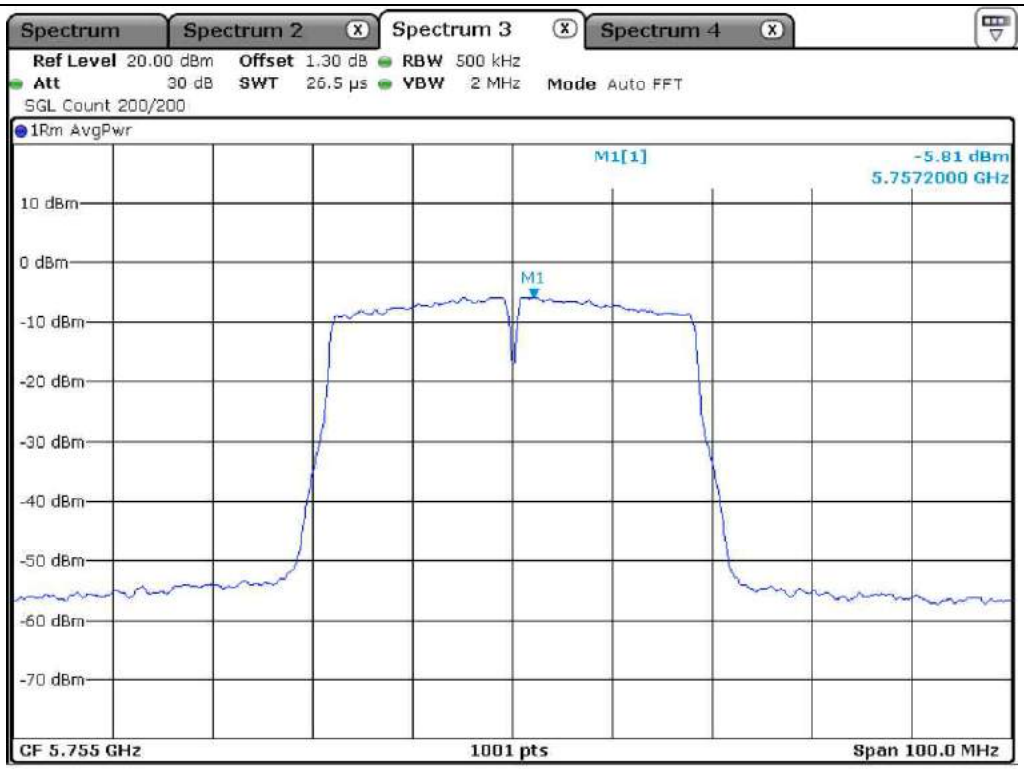
Middle Channel (5 550 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

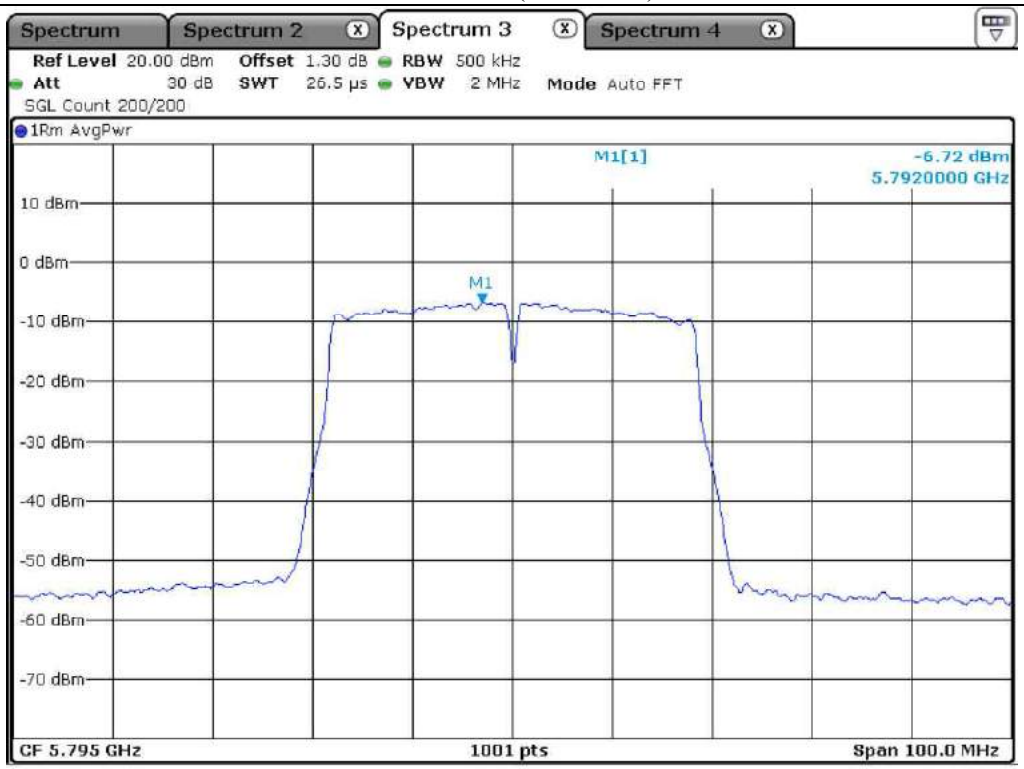


High Channel (5 670 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



Low Channel (5 755 MHz)



High Channel (5 795 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.6.3 Test data for Multiple Transmit

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190.00	0.59	11.00	10.41
	High	5 230.00	0.62	11.00	10.38
5 250 ~ 5 350	Low	5 270.00	1.36	11.00	9.64
	High	5 310.00	1.86	11.00	9.14
5 470 ~ 5 725	Low	5 510.00	1.30	11.00	9.70
	Middle	5 550.00	1.14	11.00	9.86
	High	5 670.00	1.45	11.00	9.55
5 725 ~ 5 850	Low	5 755.00	-3.05	30.00	33.05
	High	5 795.00	-3.34	30.00	33.34

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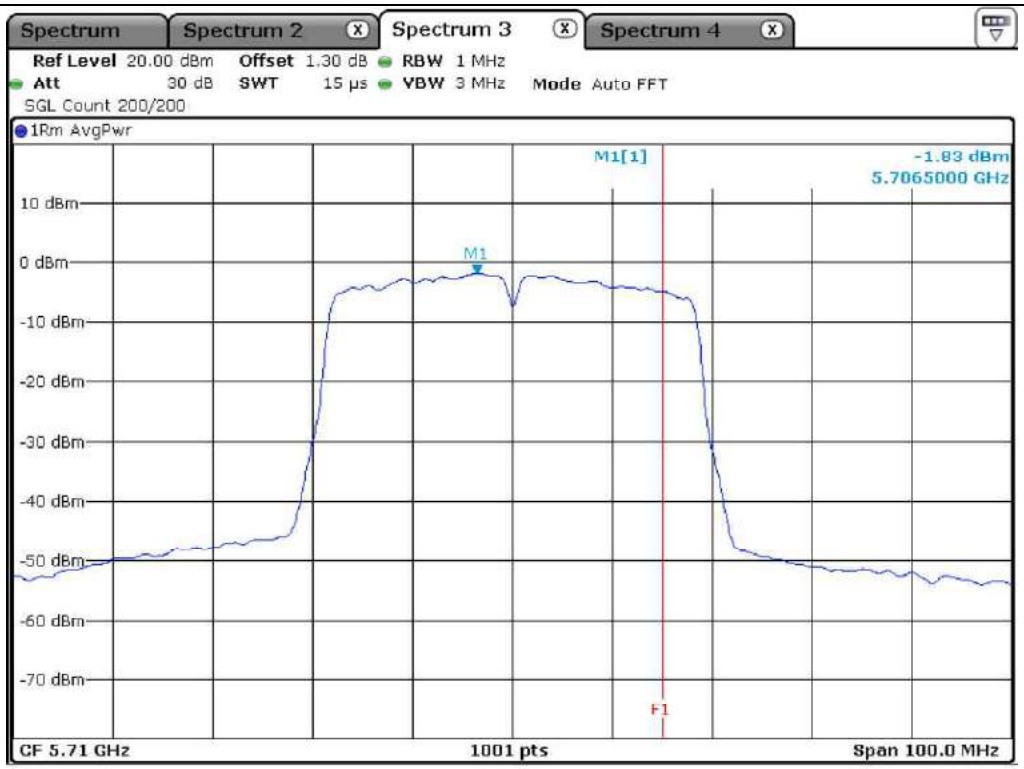
10.6.4 Test data for Staddle Channel_Antenna 0

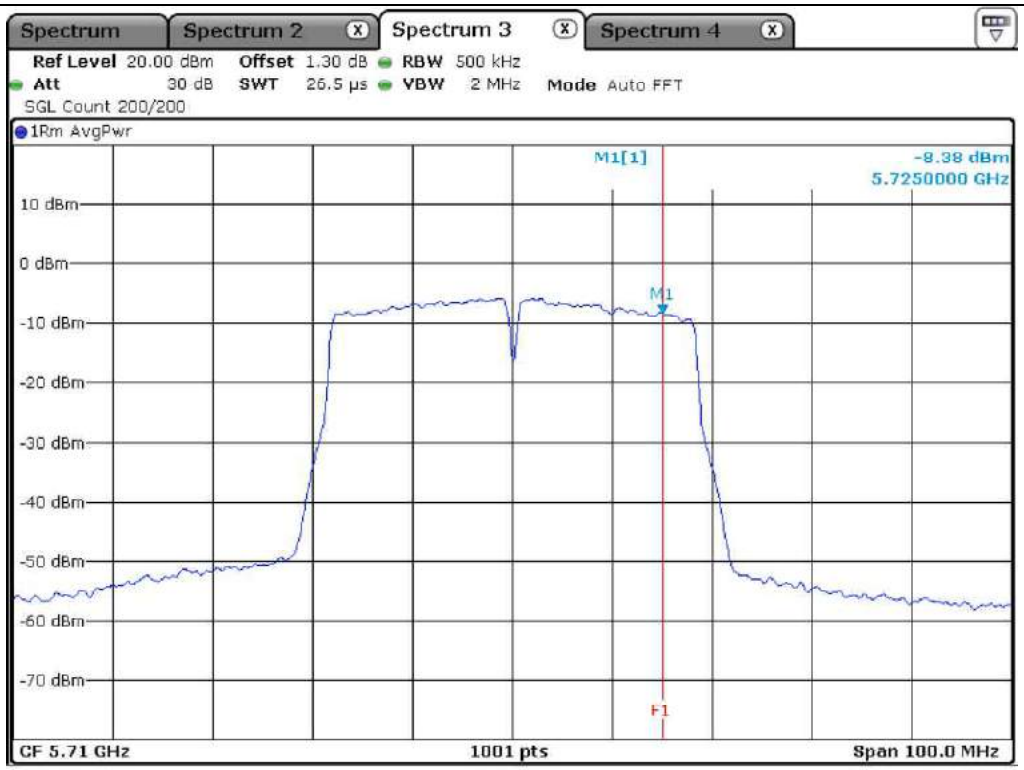
-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 710.00	-1.83	11.00	12.83
5 725 ~ 5 850	5 710.00	-8.38	30.00	38.38

Remark: See next page for measurement data.





ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.6.5 Test data for Staddle Channel_Antenna 1

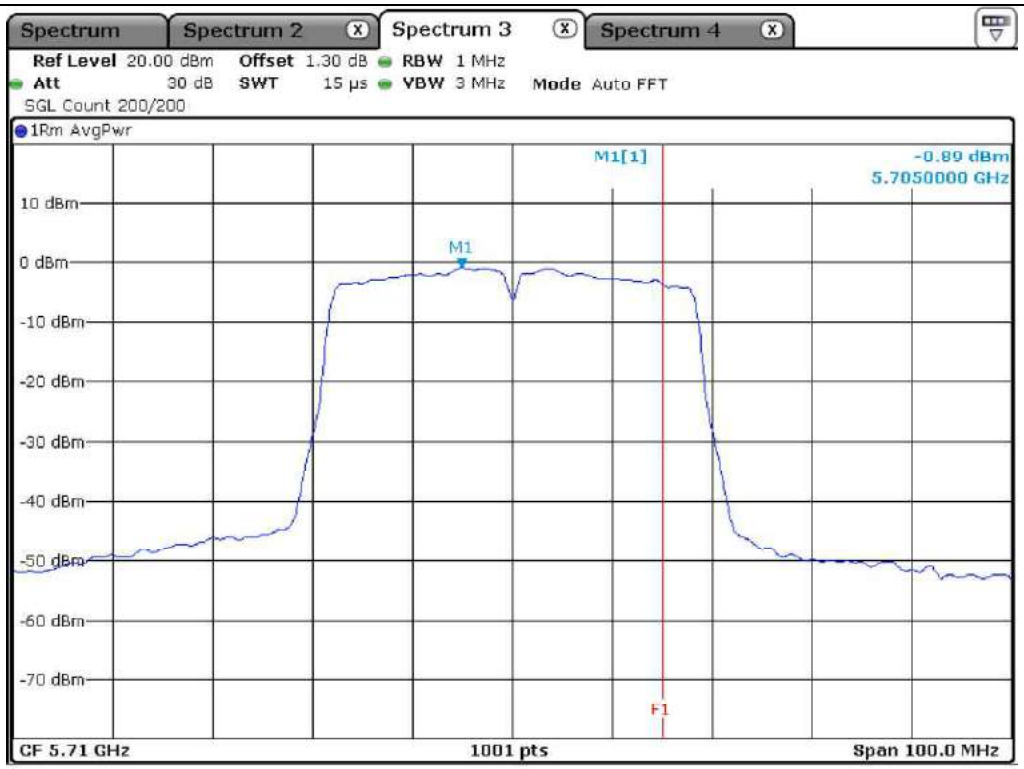
-. Operating condition : Highest Output Power Transmitting Mode

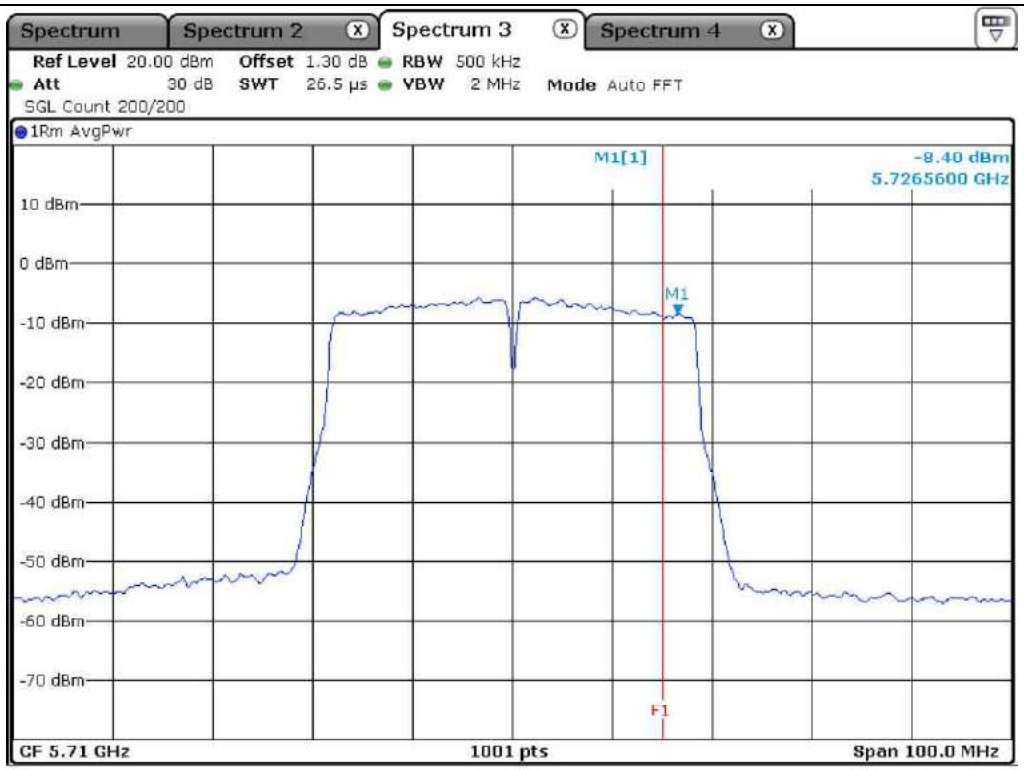
-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 710.00	-0.89	11.00	11.89
5 725 ~ 5 850	5 710.00	-8.40	30.00	38.40

Remark: See next page for measurement data.

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)





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10.6.6 Test data for Staddle Channel_Multiple Transmit

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 710.00	1.68	11.00	9.32
5 725 ~ 5 850	5 710.00	-5.38	30.00	35.38

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10.7 Test data for 802.11ac_HT80 RLAN Mode

10.7.1 Test data for Antenna 0

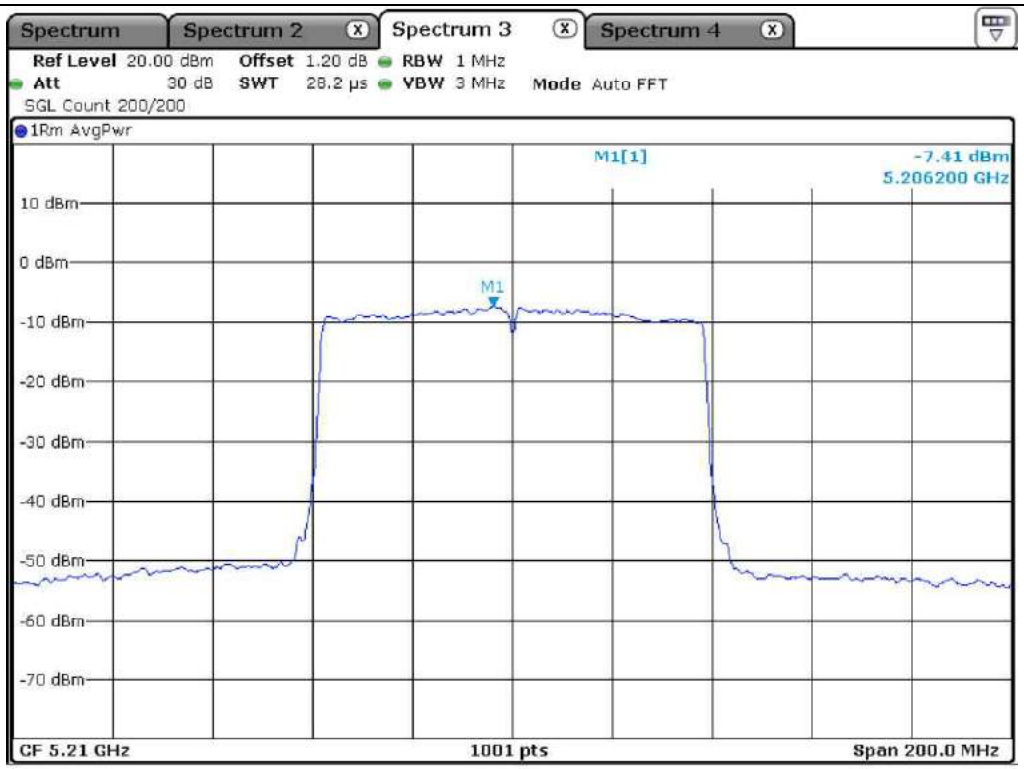
-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

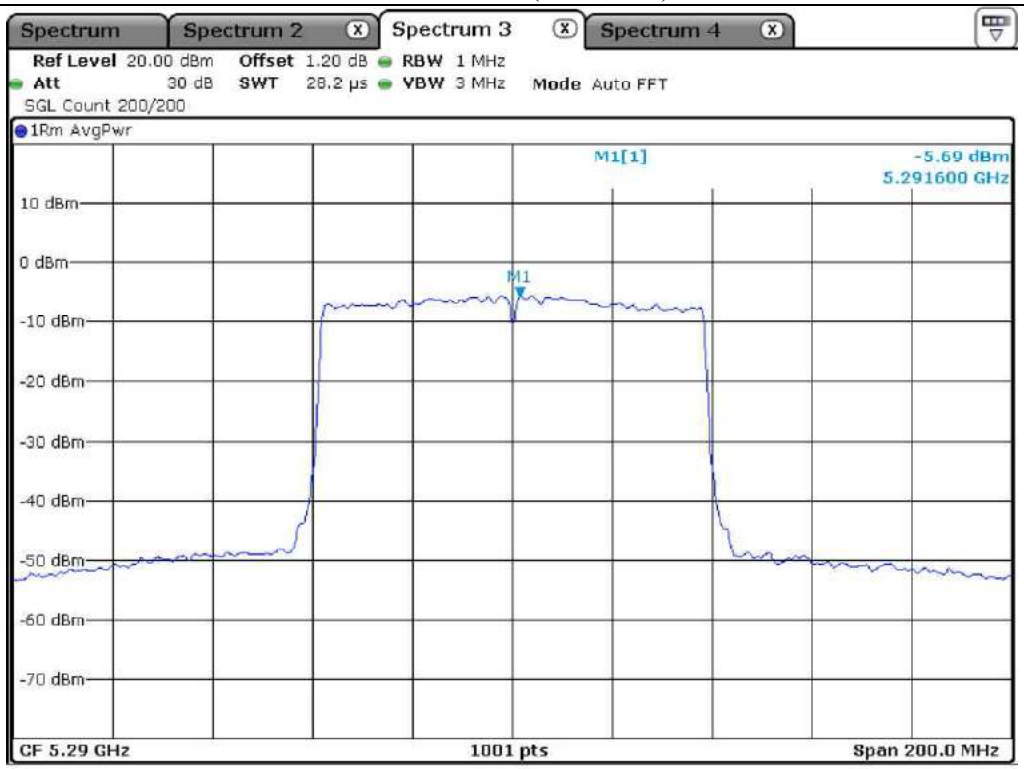
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 210.00	-7.41	11.00	18.41
5 250 ~ 5 350	Low	5 290.00	-5.69	11.00	16.69
5 470 ~ 5 725	Low	5 530.00	-6.72	11.00	17.72
5 725 ~ 5 850	Low	5 775.00	-9.26	30.00	39.26

Remark: See next page for measurement data.

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

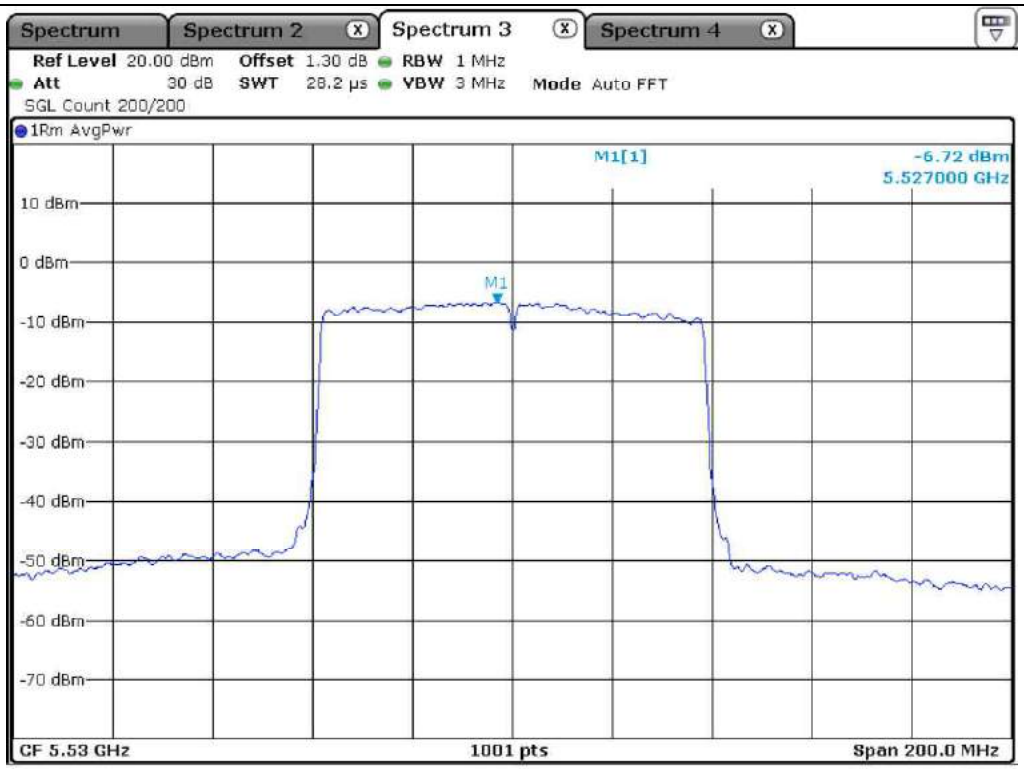


Middle Channel (5 210 MHz)

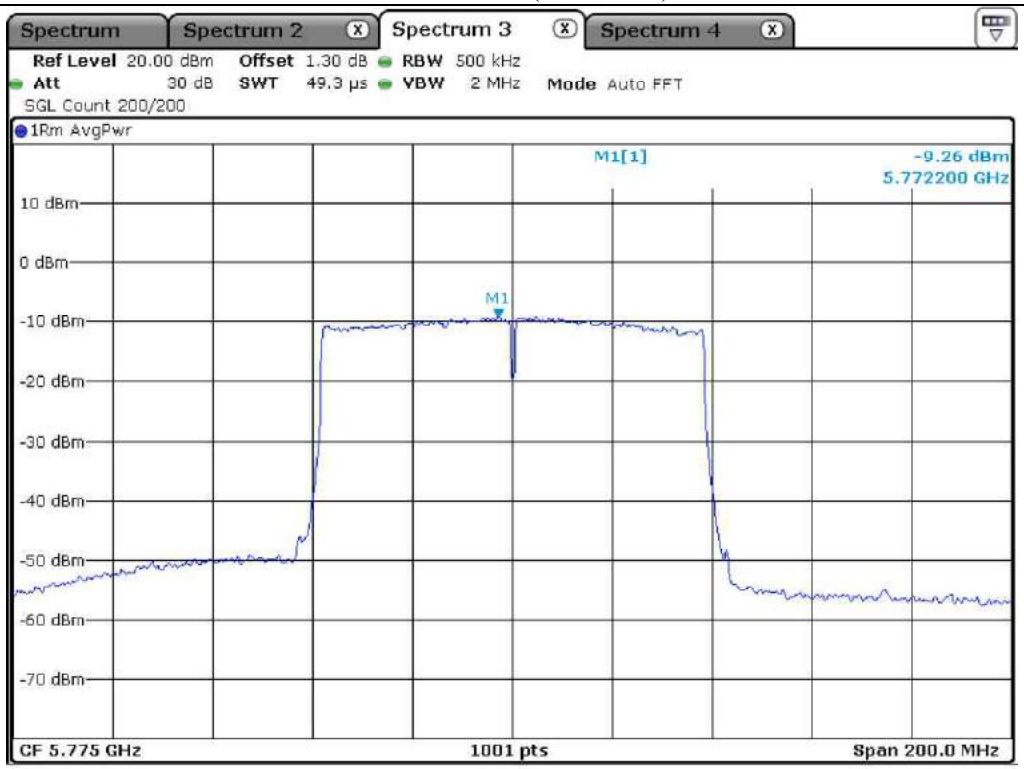


Middle Channel (5 290 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



Middle Channel (5 530 MHz)



Middle Channel (5 775 MHz)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.7.2 Test data for Antenna 1

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 210.00	-7.88	11.00	18.88
5 250 ~ 5 350	Low	5 290.00	-6.58	11.00	17.58
5 470 ~ 5 725	Low	5 530.00	-6.04	11.00	17.04
5 725 ~ 5 850	Low	5 775.00	-8.99	30.00	38.99

Remark: See next page for measurement data.

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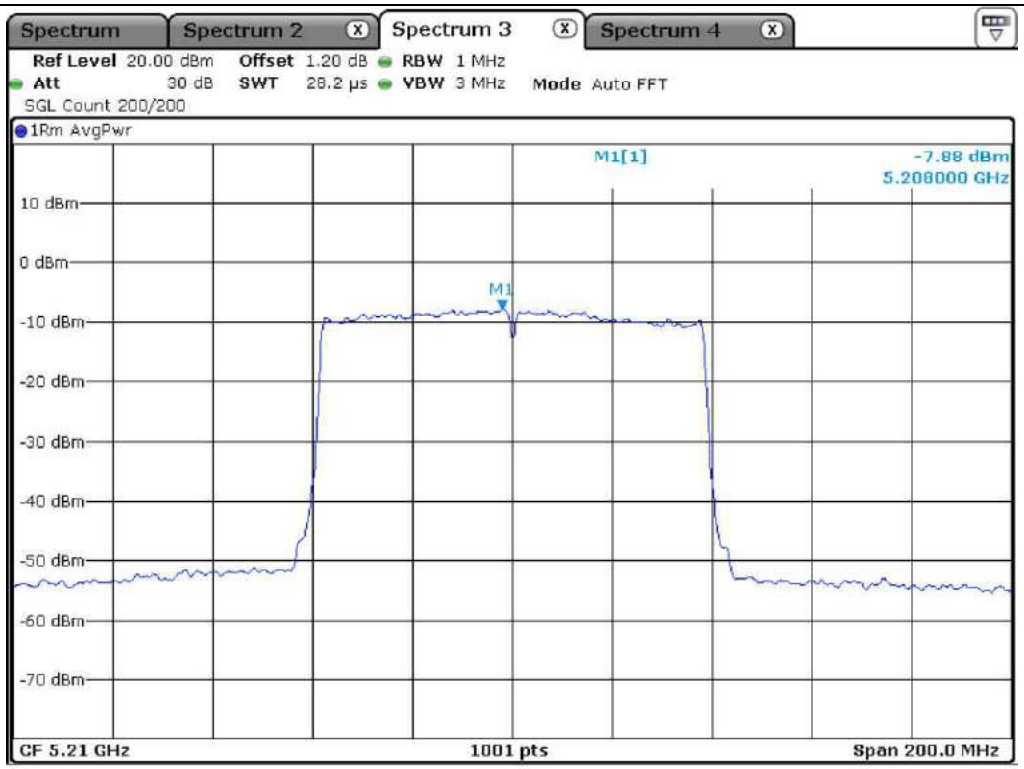
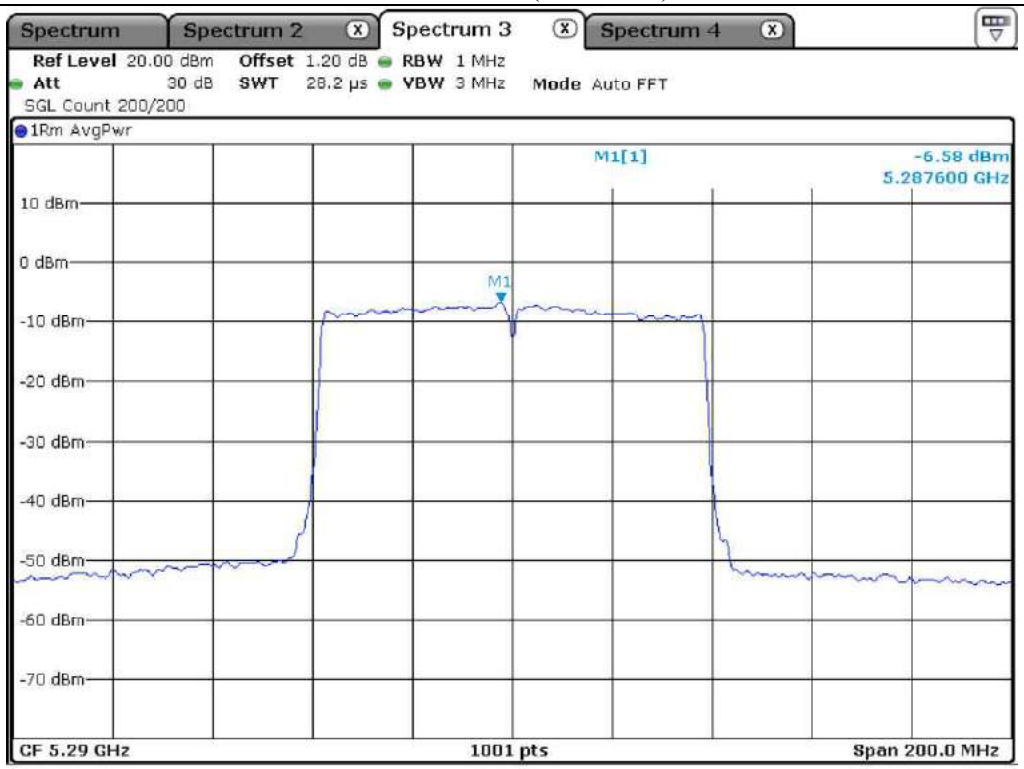


Middle Channel (5 210 MHz)



Middle Channel (5 290 MHz)

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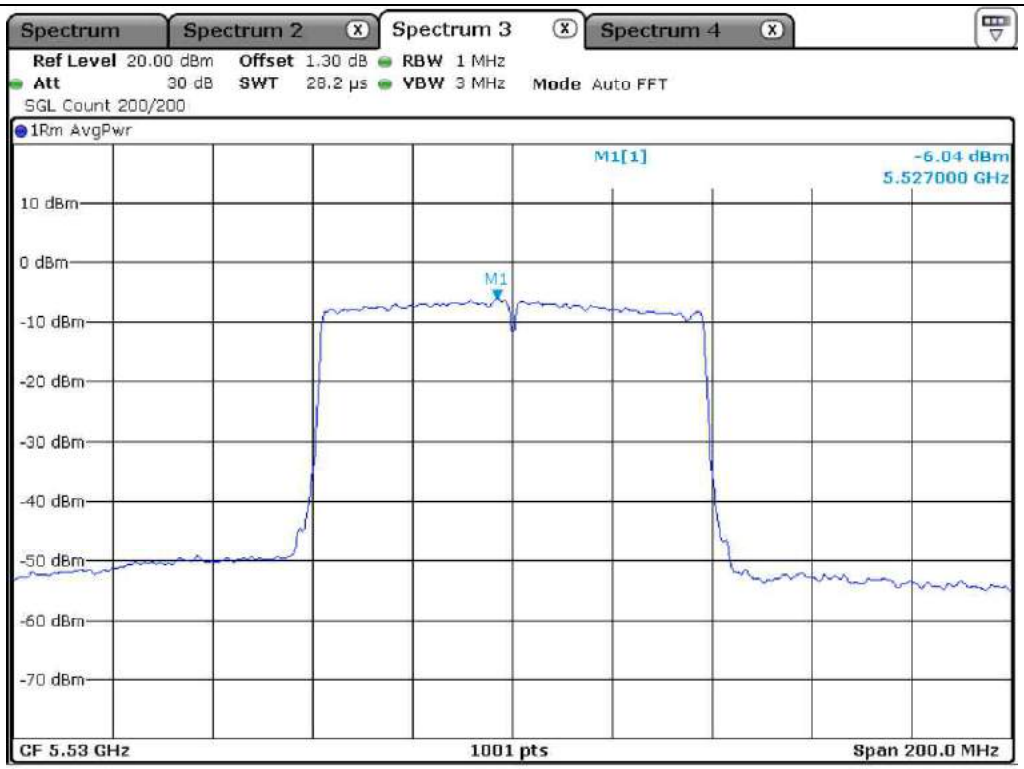
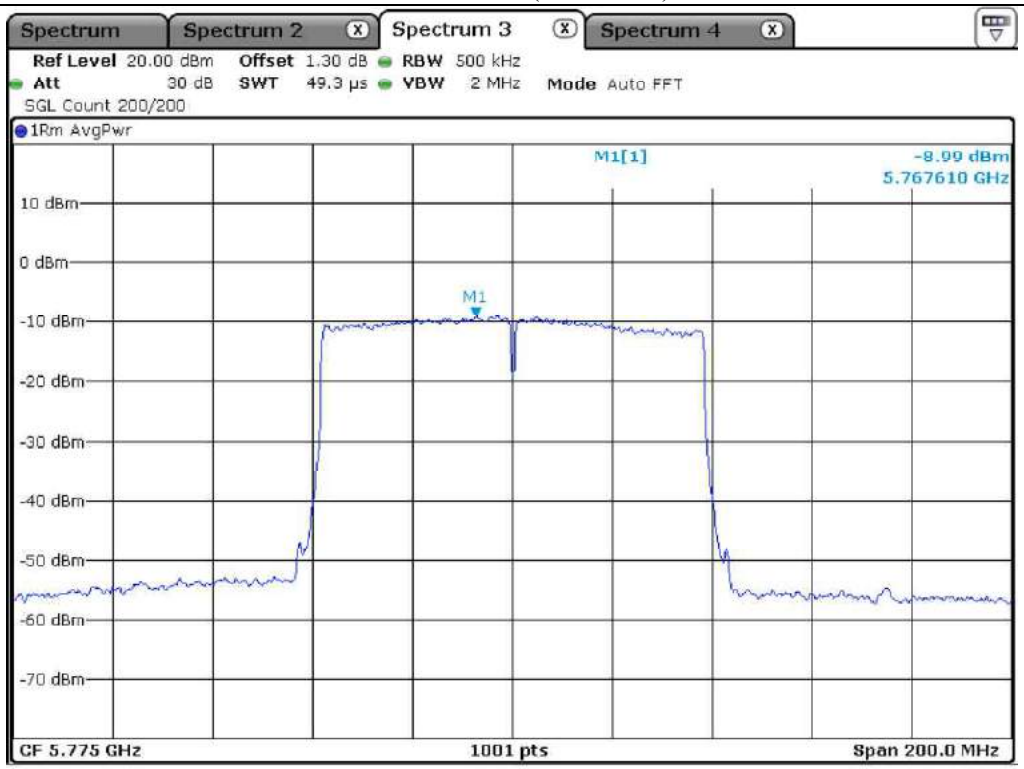


Middle Channel (5 530 MHz)



Middle Channel (5 775 MHz)

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10.7.3 Test data for Multiple Transmit

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 210.00	-4.63	11.00	15.63
5 250 ~ 5 350	Low	5 290.00	-3.10	11.00	14.10
5 470 ~ 5 725	Low	5 530.00	-3.36	11.00	14.36
5 725 ~ 5 850	Low	5 775.00	-6.11	30.00	36.11

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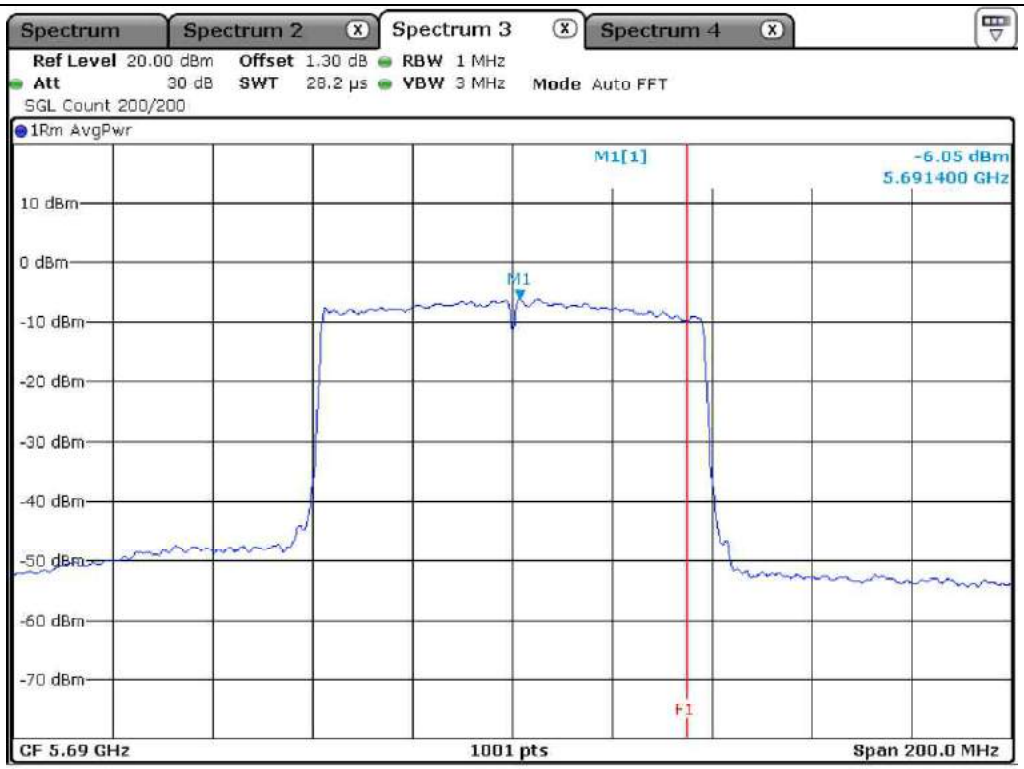
10.7.4 Test data for Staddle Channel_Antenna 0

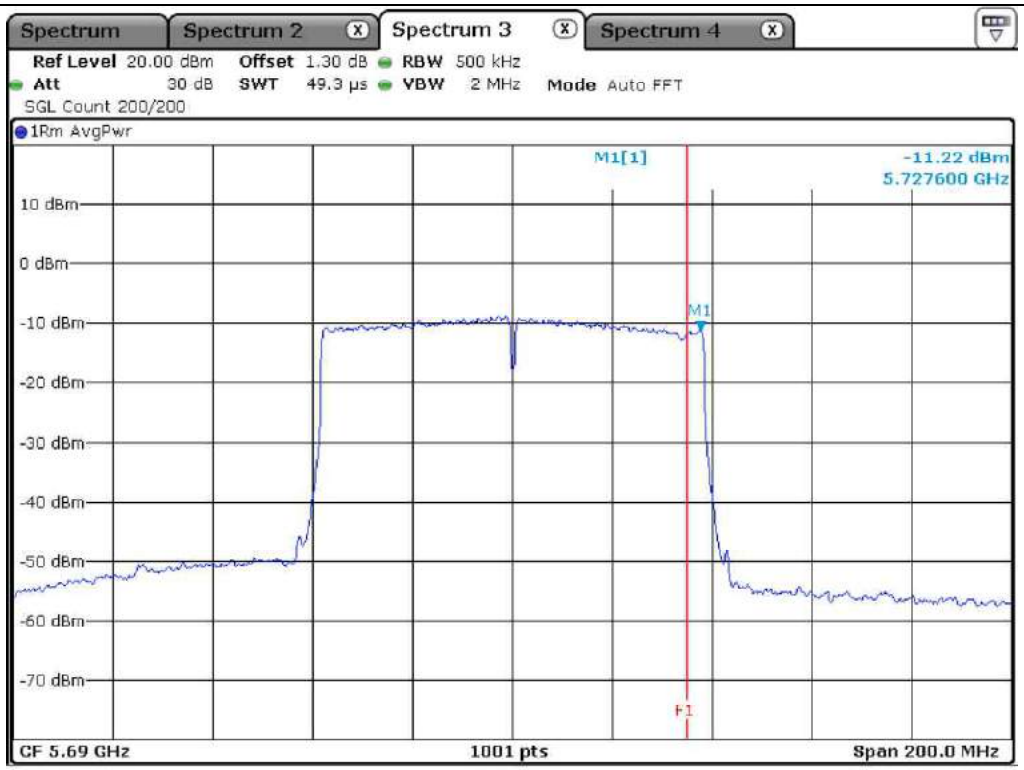
-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 690.00	-6.05	11.00	17.05
5 725 ~ 5 850	5 690.00	-11.22	30.00	41.22

Remark: See next page for measurement data.





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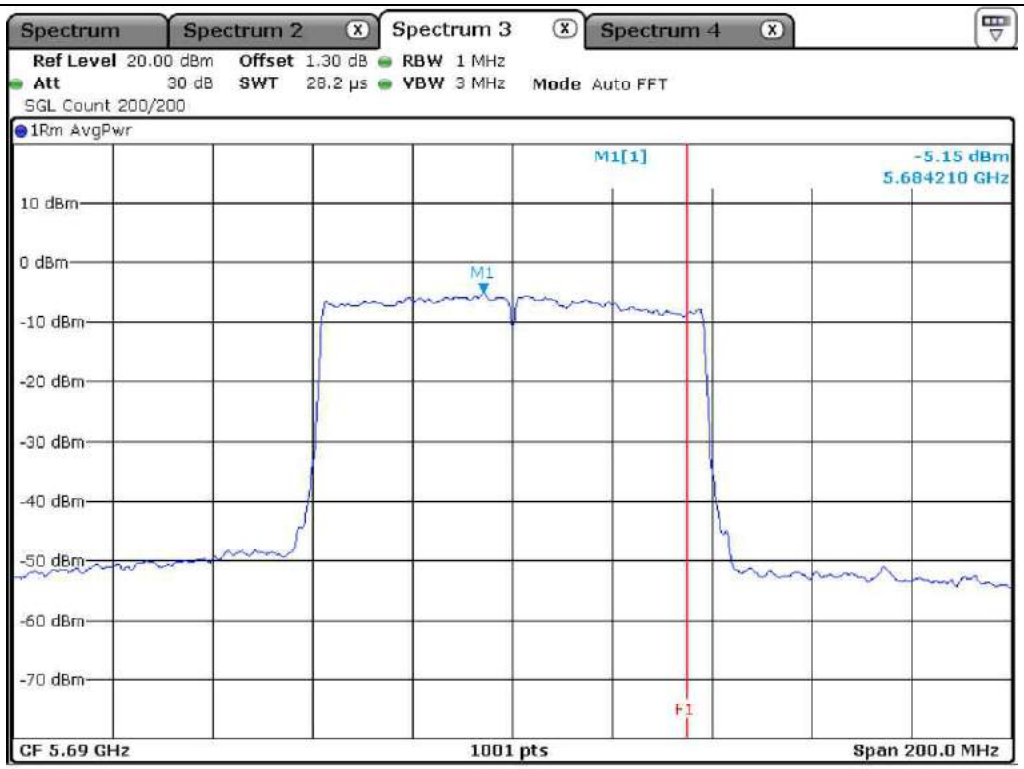
10.7.5 Test data for Staddle Channel_Antenna 1

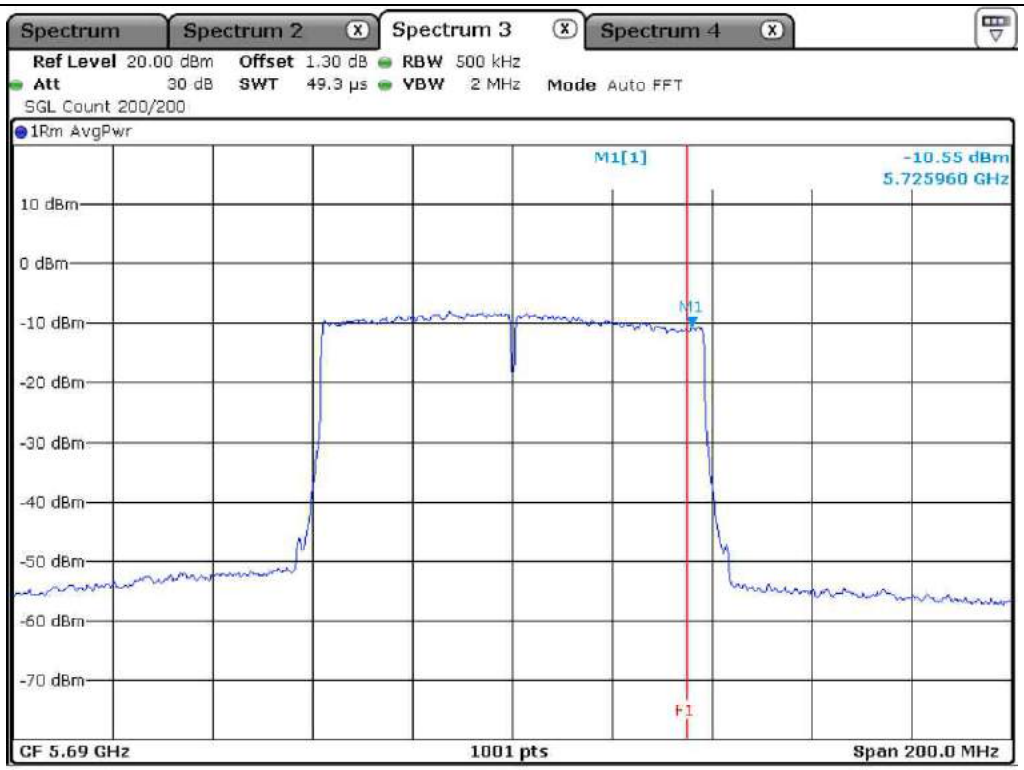
-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 690.00	-5.15	11.00	16.15
5 725 ~ 5 850	5 690.00	-10.55	30.00	40.55

Remark: See next page for measurement data.





ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

10.7.6 Test data for Staddle Channel_Multiple Transmit

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 690.00	-2.57	11.00	13.57
5 725 ~ 5 850	5 690.00	-7.86	30.00	37.86

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11. FREQUENCY STABILITY WITH TEMPERATURE VARIATION

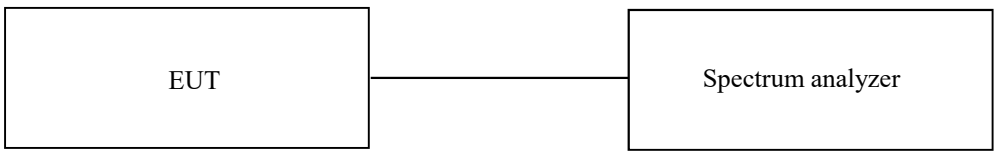
11.1 Operating environment

Temperature : 23 °C

Relative humidity : 45 % R.H.

11.2 Test set-up

Turn EUT off and set chamber temperature to -20 °C and then allow sufficient time (approximately 20 min to 30 min after chamber reach the assigned temperature) for EUT to stabilize. Turn on the EUT and measure the EUT operating frequency and then turn off the EUT after the measurement. The temperature in the chamber was raised 10 °C step from -20 °C to +80 °C. Repeat above method for frequency measurements every 10 °C step and then record all measured frequencies on each temperature step.



11.3 Test Date

March 12, 2021 ~ March 22, 2021

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

11.4 Test Data for U-NII-1

-. Result : Pass

Temperature (˚C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-20	5 180 000 000	5 180 027 904	27 904
-10		5 180 025 433	25 433
0		5 180 018 664	18 664
10		5 180 004 436	4 436
20		5 179 979 362	- 20 638
30		5 179 968 425	- 31 575
40		5 179 953 402	- 46 598
50		5 179 944 428	- 55 572
-20	5 220 000 000	5 220 028 421	28 421
-10		5 220 026 974	26 974
0		5 220 019 924	19 924
10		5 220 004 061	4 061
20		5 219 980 264	- 19 736
30		5 219 967 407	- 32 593
40		5 219 955 164	- 44 836
50		5 219 942 876	- 57 124
-20	5 240 000 000	5 240 029 023	29 023
-10		5 240 024 622	24 622
0		5 240 015 960	15 960
10		5 240 003 604	3 604
20		5 239 980 194	- 19 806
30		5 239 964 968	- 35 032
40		5 239 953 374	- 46 626
50		5 239 942 511	- 57 489

Note : While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.(ANSI C63.10-2013)

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11.5 Test Data for U-NII-2A

-. Result : Pass

Temperature (˚C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-20	5 260 000 000	5 260 029 268	29 268
-10		5 260 024 604	24 604
0		5 260 014 006	14 006
10		5 259 993 603	- 6 397
20		5 259 979 763	- 20 237
30		5 259 964 233	- 35 767
40		5 259 951 630	- 48 370
50		5 259 941 324	- 58 676
-20	5 300 000 000	5 300 029 645	29 645
-10		5 300 024 462	24 462
0		5 300 013 503	13 503
10		5 299 994 004	- 5 996
20		5 299 978 164	- 21 836
30		5 299 961 640	- 38 360
40		5 299 949 364	- 50 636
50		5 299 940 531	- 59 469
-20	5 320 000 000	5 320 029 101	29 101
-10		5 320 023 974	23 974
0		5 320 012 634	12 634
10		5 319 994 188	- 5 812
20		5 319 977 790	- 22 210
30		5 319 961 639	- 38 361
40		5 319 948 827	- 51 173
50		5 319 939 976	- 60 024

Note : While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.(ANSI C63.10-2013)

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11.6 Test Data for U-NII-2C

-. Result : Pass

Temperature (˚C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-20	5 500 000 000	5 500 030 688	30 688
-10		5 500 028 421	28 421
0		5 500 014 277	14 277
10		5 499 997 977	- 2 023
20		5 499 978 741	- 21 259
30		5 499 959 367	- 40 633
40		5 499 947 452	- 52 548
50		5 499 937 864	- 62 136
-20	5 580 000 000	5 580 031 111	31 111
-10		5 580 027 699	27 699
0		5 580 013 453	13 453
10		5 579 996 432	- 3 568
20		5 579 976 198	- 23 802
30		5 579 957 975	- 42 025
40		5 579 945 637	- 54 363
50		5 579 936 206	- 63 794
-20	5 700 000 000	5 700 030 154	30 154
-10		5 700 027 542	27 542
0		5 700 013 002	13 002
10		5 699 995 047	- 4 953
20		5 699 974 572	- 25 428
30		5 699 956 228	- 43 772
40		5 699 944 953	- 55 047
50		5 699 934 599	- 65 401

Note : While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.(ANSI C63.10-2013)

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11.7 Test Data for U-NII-3

-. Result : Pass

Temperature (˚C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	**Frequency Error (Hz)**
-20	5 745 000 000	5 745 031 001	31 001
-10		5 745 027 635	27 635
0		5 745 012 773	12 773
10		5 744 991 630	- 8 370
20		5 744 974 589	- 25 411
30		5 744 958 108	- 41 892
40		5 744 944 201	- 55 799
50		5 744 934 997	- 65 003
-20	5 785 000 000	5 785 032 495	32 495
-10		5 785 026 940	26 940
0		5 785 012 709	12 709
10		5 784 991 593	- 8 407
20		5 784 973 589	- 26 411
30		5 784 956 638	- 43 362
40		5 784 944 402	- 55 598
50		5 784 933 114	- 66 886
-20	5 825 000 000	5 825 032 436	32 436
-10		5 825 026 193	26 193
0		5 825 011 147	11 147
10		5 824 992 496	- 7 504
20		5 824 972 953	- 27 047
30		5 824 954 660	- 45 340
40		5 824 943 741	- 56 259
50		5 824 932 667	- 67 333

Note : While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.(ANSI C63.10-2013)

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12. FREQUENCY STABILITY WITH VOLTAGE VARIATION

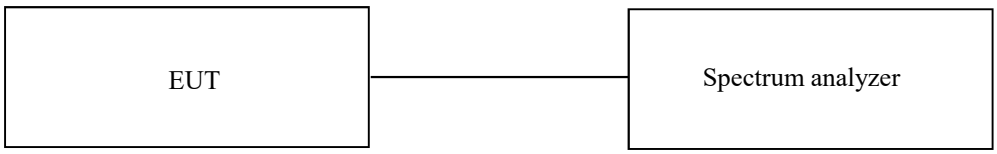
12.1 Operating environment

Temperature : 23 °C

Relative humidity : 45 % R.H.

12.2 Test set-up

An external DC power supply was connected to the input of the EUT. The voltage of EUT set to 115.0 % of the nominal value and then was reduced to 85.0 % of nominal voltage. The output frequency was recorded at each step.



12.3 Test Date

March 12, 2021 ~ March 22, 2021

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12.4 Test Data for U-NII-1

-. Result : Pass

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
5.00	5 180 000 000	5 179 977 566	- 22 434
4.25		5 179 976 147	- 23 853
5.75		5 179 979 027	- 20 973
5.00	5 220 000 000	5 219 976 488	- 23 512
4.25		5 219 975 435	- 24 565
5.75		5 219 977 625	- 22 375
5.00	5 240 000 000	5 239 979 272	- 20 728
4.25		5 239 977 896	- 22 104
5.75		5 239 980 580	- 19 420

12.5 Test Data for U-NII-2A

-. Result : Pass

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
5.00	5 260 000 000	5 259 977 272	- 22 728
4.25		5 259 976 372	- 23 628
5.75		5 259 979 078	- 20 922
5.00	5 300 000 000	5 299 978 878	- 21 122
4.25		5 299 977 620	- 22 380
5.75		5 299 979 973	- 20 027
5.00	5 320 000 000	5 319 977 175	- 22 825
4.25		5 319 975 749	- 24 251
5.75		5 319 978 387	- 21 613

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12.6 Test Data for U-NII-2C

-. Result : Pass

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
5.00	5 500 000 000	5 499 979 358	- 20 642
4.25		5 499 978 043	- 21 957
5.75		5 499 980 860	- 19 140
5.00	5 580 000 000	5 579 976 093	- 23 907
4.25		5 579 975 141	- 24 859
5.75		5 579 977 596	- 22 404
5.00	5 700 000 000	5 699 978 244	- 21 756
4.25		5 699 976 928	- 23 072
5.75		5 699 979 660	- 20 340

12.7 Test Data for U-NII-3

-. Result : Pass

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
5.00	5 745 000 000	5 744 976 271	- 23 729
4.25		5 744 975 060	- 24 940
5.75		5 744 977 838	- 22 162
5.00	5 785 000 000	5 784 979 555	- 20 445
4.25		5 784 978 576	- 21 424
5.75		5 784 980 575	- 19 425
5.00	5 825 000 000	5 824 979 630	- 20 370
4.25		5 824 978 479	- 21 521
5.75		5 824 981 397	- 18 603

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13. RADIATED SPURIOUS EMISSIONS

13.1 Operating environment

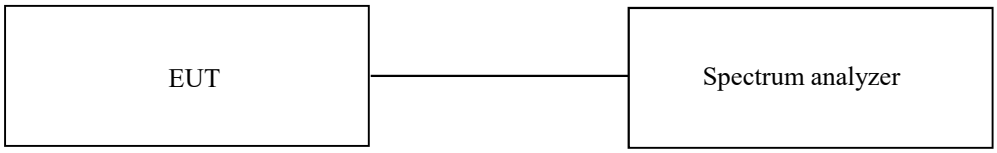
Temperature : 23 °C

Relative humidity : 45 % R.H.

13.2 Test set-up for conducted measurement

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 40 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.



13.3 Test Date

March 12, 2021 ~ March 22, 2021

13.4 Test data for Below 30 MHz

-. Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)

-. Frequency range : 9 kHz ~ 30 MHz

-. Measurement distance : 3 m

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBµV/m)	Limits (dBµV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

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13.5 Test data for 30 MHz ~ 1 000 MHz

13.5.1 Test data for WLAN 5 GHz

Humidity Level : 45 % R.H. Temperature: 23 °C

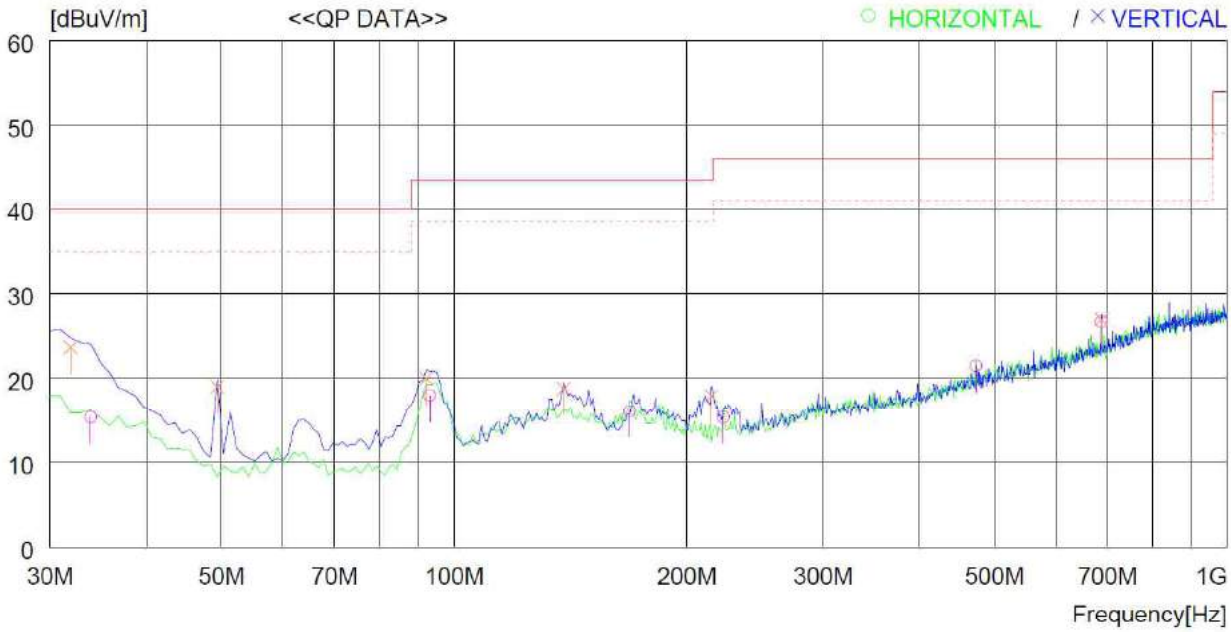
Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : WI-FI Transceiver

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)

-. Antenna 0, Antenna 1 and Multiple transmit tested, but the worst data were recorded.



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	33.880	27.0	19.5	0.9	32.0	15.4	40.0	24.6	400	0
2	93.050	34.8	14.0	1.2	32.0	18.0	43.5	25.5	200	0
3	168.710	29.2	17.3	1.6	32.0	16.1	43.5	27.4	100	32
4	223.030	28.9	16.6	1.9	32.0	15.4	46.0	30.6	200	0
5	473.291	28.6	22.5	2.6	32.2	21.5	46.0	24.5	100	119
6	687.655	30.2	25.4	3.4	32.3	26.7	46.0	19.3	300	196
----- Vertical ------										
7	31.940	34.6	20.3	0.8	32.0	23.7	40.0	16.3	100	0
8	49.400	36.8	13.4	0.9	32.1	19.0	40.0	21.0	400	359
9	92.080	36.9	13.9	1.2	32.0	20.0	43.5	23.5	100	0
10	138.640	30.0	19.4	1.4	32.0	18.8	43.5	24.7	100	0
11	215.270	31.8	16.3	1.8	32.0	17.9	43.5	25.6	100	0
12	687.655	30.5	25.4	3.4	32.3	27.0	46.0	19.0	300	0

13.5.2 Test data for Intermodulation Mode(WLAN 2.4 GHz + WLAN 5 GHz)

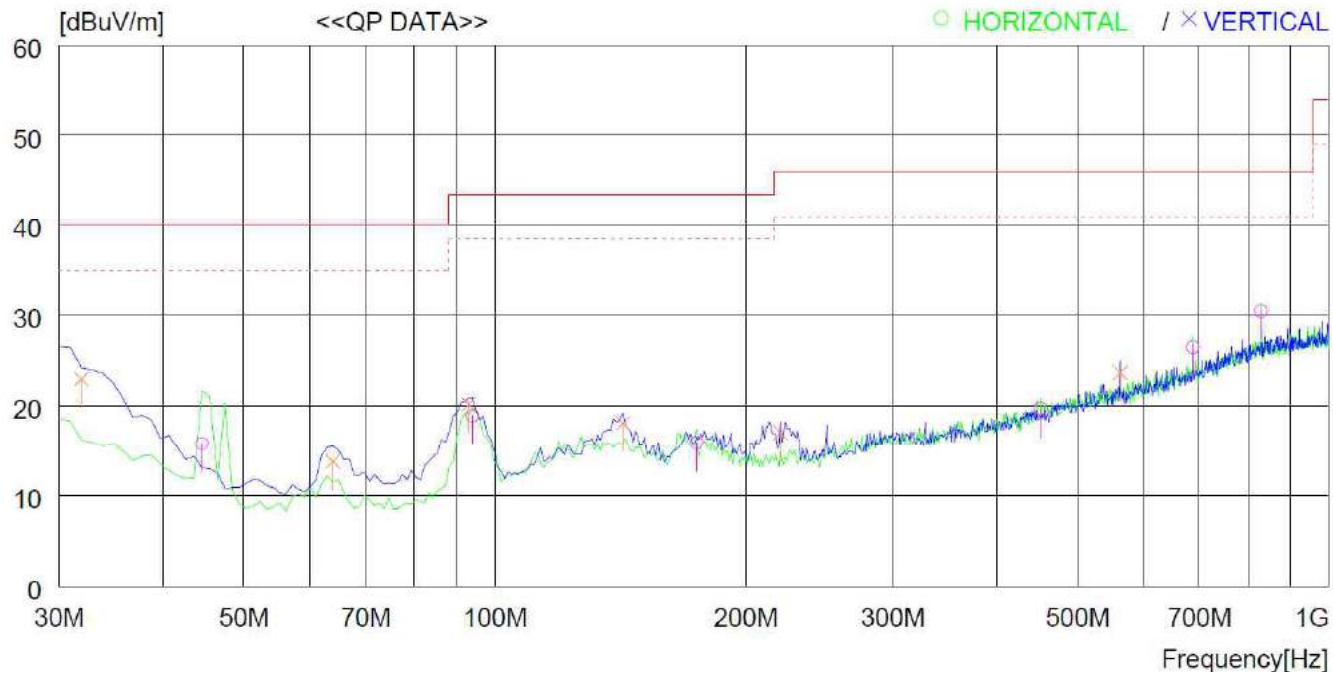
Humidity Level : 45 % R.H. Temperature: 23 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : WI-FI Transceiver

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	44.550	31.5	15.4	0.9	32.0	15.8	40.0	24.2	100	359
2	94.020	35.5	14.2	1.2	32.0	18.9	43.5	24.6	200	0
3	174.530	29.2	17.0	1.7	32.0	15.9	43.5	27.6	200	148
4	451.951	27.5	21.9	2.5	32.2	19.7	46.0	26.3	200	0
5	687.655	30.0	25.4	3.4	32.3	26.5	46.0	19.5	300	16
6	830.241	31.1	27.2	4.1	31.9	30.5	46.0	15.5	200	132
----- Vertical ------										
7	31.940	33.9	20.3	0.8	32.0	23.0	40.0	17.0	100	3
8	63.950	32.6	12.4	0.9	32.1	13.8	40.0	26.2	100	104
9	93.050	37.0	14.0	1.2	32.0	20.2	43.5	23.3	100	0
10	142.520	29.4	19.3	1.4	32.0	18.1	43.5	25.4	100	113
11	220.120	30.6	16.5	1.9	32.0	17.0	46.0	29.0	100	104
12	562.529	29.4	23.8	2.9	32.4	23.7	46.0	22.3	100	307

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13.6 Test data for Above 1 GHz

13.6.1 Test data for Frequency UNII I

13.6.1.1 Test data for 802.11a RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Low Channel									
10 360.00	51.46	Peak	H	39.20	18.07	46.00	62.73	68.20	5.47
10 360.00	51.34	Peak	V	39.20	18.07	46.00	62.61	68.20	5.59
Middle Channel									
10 440.00	51.52	Peak	H	39.30	18.07	46.00	62.89	68.20	5.31
10 440.00	51.23	Peak	V	39.30	18.07	46.00	62.60	68.20	5.60
High Channel									
10 480.00	51.49	Peak	H	39.40	18.07	46.00	62.96	68.20	5.24
10 480.00	51.37	Peak	V	39.40	18.07	46.00	62.84	68.20	5.36

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

13.6.1.2 Test data for 802.11n_HT20 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Low Channel									
10 360.00	51.30	Peak	H	39.20	18.07	46.00	62.57	68.20	5.63
10 360.00	51.17	Peak	V	39.20	18.07	46.00	62.44	68.20	5.76
Middle Channel									
10 440.00	51.27	Peak	H	39.30	18.07	46.00	62.64	68.20	5.56
10 440.00	51.17	Peak	V	39.30	18.07	46.00	62.54	68.20	5.66
High Channel									
10 480.00	51.29	Peak	H	39.40	18.07	46.00	62.76	68.20	5.44
10 480.00	51.11	Peak	V	39.40	18.07	46.00	62.58	68.20	5.62

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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13.6.1.3 Test data for 802.11n_HT40 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Low Channel									
10 380.00	51.15	Peak	H	39.20	18.07	46.00	62.42	68.20	5.78
10 380.00	50.70	Peak	V	39.20	18.07	46.00	61.97	68.20	6.23
High Channel									
10 460.00	51.20	Peak	H	39.30	18.07	46.00	62.57	68.20	5.63
10 460.00	50.89	Peak	V	39.30	18.07	46.00	62.26	68.20	5.94

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

13.6.1.4 Test data for 802.11ac_HT80 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Middle Channel									
10 420.00	50.98	Peak	H	39.30	18.07	46.00	62.35	68.20	5.85
10 420.00	50.83	Peak	V	39.30	18.07	46.00	62.20	68.20	6.00

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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13.6.2 Test data for Frequency UNII 2A

13.6.2.1 Test data for 802.11a RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Low Channel									
10 520.00	50.94	Peak	H	39.40	18.11	46.05	62.40	68.20	5.80
10 520.00	50.81	Peak	V	39.40	18.11	46.05	62.27	68.20	5.93
Middle Channel									
10 600.00	50.92	Peak	H	39.40	18.11	46.05	62.38	74.00	11.62
10 600.00	38.97	Average	H	39.40	18.11	46.05	50.43	54.00	3.57
10 600.00	50.81	Peak	V	39.40	18.11	46.05	62.27	74.00	11.73
10 600.00	38.90	Average	V	39.40	18.11	46.05	50.36	54.00	3.64
High Channel									
10 640.00	50.90	Peak	H	39.40	18.11	46.05	62.36	74.00	11.64
10 640.00	38.92	Average	H	39.40	18.11	46.05	50.38	54.00	3.62
10 640.00	50.83	Peak	V	39.40	18.11	46.05	62.29	74.00	11.71
10 640.00	38.79	Average	V	39.40	18.11	46.05	50.25	54.00	3.75

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

13.6.2.2 Test data for 802.11n_HT20 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Low Channel									
10 520.00	50.99	Peak	H	39.40	18.11	46.05	62.45	68.20	5.75
10 520.00	50.92	Peak	V	39.40	18.11	46.05	62.38	68.20	5.82
Middle Channel									
10 600.00	51.02	Peak	H	39.40	18.11	46.05	62.48	74.00	11.52
10 600.00	39.03	Average	H	39.40	18.11	46.05	50.49	54.00	3.51
10 600.00	50.97	Peak	V	39.40	18.11	46.05	62.43	74.00	11.57
10 600.00	38.86	Average	V	39.40	18.11	46.05	50.32	54.00	3.68
High Channel									
10 640.00	51.23	Peak	H	39.40	18.11	46.05	62.69	74.00	11.31
10 640.00	39.10	Average	H	39.40	18.11	46.05	50.56	54.00	3.44
10 640.00	51.15	Peak	V	39.40	18.11	46.05	62.61	74.00	11.39
10 640.00	39.02	Average	V	39.40	18.11	46.05	50.48	54.00	3.52

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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13.6.2.3 Test data for 802.11n_HT40 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Low Channel									
10 540.00	51.06	Peak	H	39.40	18.11	46.05	62.52	68.20	5.68
10 540.00	50.04	Peak	V	39.40	18.11	46.05	61.50	68.20	6.70
High Channel									
10 620.00	51.13	Peak	H	39.40	18.11	46.05	62.59	74.00	11.41
10 620.00	39.17	Average	H	39.40	18.11	46.05	50.63	54.00	3.37
10 620.00	51.04	Peak	V	39.40	18.11	46.05	62.50	74.00	11.50
10 620.00	39.10	Average	V	39.40	18.11	46.05	50.56	54.00	3.44

Remark - "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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13.6.2.4 Test data for 802.11ac_HT80 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Middle Channel									
10 580.00	50.91	Peak	H	39.40	18.11	46.05	62.37	68.20	5.83
10 580.00	50.88	Peak	V	39.40	18.11	46.05	62.34	68.20	5.86

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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13.6.3 Test data for Frequency UNII 2C

13.6.3.1 Test data for 802.11a RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Low Channel									
11 000.00	49.40	Peak	H	39.00	17.88	46.50	59.78	74.00	14.22
11 000.00	38.30	Average	H	39.00	17.88	46.50	48.68	54.00	5.32
11 000.00	49.33	Peak	V	39.00	17.88	46.50	59.71	74.00	14.29
11 000.00	38.21	Average	V	39.00	17.88	46.50	48.59	54.00	5.41
Middle Channel									
11 160.00	49.39	Peak	H	39.00	17.91	46.50	59.80	74.00	14.20
11 160.00	38.21	Average	H	39.00	17.91	46.50	48.62	54.00	5.38
11 160.00	49.31	Peak	V	39.00	17.91	46.50	59.72	74.00	14.28
11 160.00	38.18	Average	V	39.00	17.91	46.50	48.59	54.00	5.41
High Channel									
11 400.00	49.26	Peak	H	39.00	18.08	46.50	59.84	74.00	14.16
11 400.00	38.02	Average	H	39.00	18.08	46.50	48.60	54.00	5.40
11 400.00	49.30	Peak	V	39.00	18.08	46.50	59.88	74.00	14.12
11 400.00	38.13	Average	V	39.00	18.08	46.50	48.71	54.00	5.29

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

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13.6.3.2 Test data for 802.11n_HT20 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Low Channel									
11 000.00	49.56	Peak	H	39.00	17.88	46.50	59.94	74.00	14.06
11 000.00	38.23	Average	H	39.00	17.88	46.50	48.61	54.00	5.39
11 000.00	49.44	Peak	V	39.00	17.88	46.50	59.82	74.00	14.18
11 000.00	38.20	Average	V	39.00	17.88	46.50	48.58	54.00	5.42
Middle Channel									
11 160.00	49.75	Peak	H	39.00	17.91	46.50	60.16	74.00	13.84
11 160.00	38.16	Average	H	39.00	17.91	46.50	48.57	54.00	5.43
11 160.00	49.66	Peak	V	39.00	17.91	46.50	60.07	74.00	13.93
11 160.00	38.14	Average	V	39.00	17.91	46.50	48.55	54.00	5.45
High Channel									
11 400.00	49.50	Peak	H	39.00	18.08	46.50	60.08	74.00	13.92
11 400.00	38.25	Average	H	39.00	18.08	46.50	48.83	54.00	5.17
11 400.00	49.39	Peak	V	39.00	18.08	46.50	59.97	74.00	14.03
11 400.00	38.10	Average	V	39.00	18.08	46.50	48.68	54.00	5.32

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

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13.6.3.3 Test data for 802.11n_HT40 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Low Channel									
11 020.00	49.49	Peak	H	39.00	17.88	46.50	59.87	74.00	14.13
11 020.00	38.40	Average	H	39.00	17.88	46.50	48.78	54.00	5.22
11 020.00	49.32	Peak	V	39.00	17.88	46.50	59.70	74.00	14.30
11 020.00	38.29	Average	V	39.00	17.88	46.50	48.67	54.00	5.33
Middle Channel									
11 100.00	49.47	Peak	H	39.00	17.91	46.50	59.88	74.00	14.12
11 100.00	38.38	Average	H	39.00	17.91	46.50	48.79	54.00	5.21
11 100.00	49.40	Peak	V	39.00	17.91	46.50	59.81	74.00	14.19
11 100.00	38.26	Average	V	39.00	17.91	46.50	48.67	54.00	5.33
High Channel									
11 340.00	49.35	Peak	H	39.00	18.08	46.50	59.93	74.00	14.07
11 340.00	38.16	Average	H	39.00	18.08	46.50	48.74	54.00	5.26
11 340.00	49.26	Peak	V	39.00	18.08	46.50	59.84	74.00	14.16
11 340.00	38.14	Average	V	39.00	18.08	46.50	48.72	54.00	5.28

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

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13.6.3.4 Test data for 802.11ac_HT80 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Middle Channel									
11 060.00	49.26	Peak	H	39.00	17.91	46.50	59.67	68.20	8.53
11 060.00	49.19	Peak	V	39.00	17.91	46.50	59.60	68.20	8.60

Remark - "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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13.6.4 Test data for Frequency UNII 3

13.6.4.1 Test data for 802.11a RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Low Channel									
11 490.00	49.51	Peak	H	39.30	18.65	46.35	61.11	74.00	12.89
11 490.00	38.56	Average	H	39.30	18.65	46.35	50.16	54.00	3.84
11 490.00	49.43	Peak	V	39.30	18.65	46.35	61.03	74.00	12.97
11 490.00	38.49	Average	V	39.30	18.65	46.35	50.09	54.00	3.91
Middle Channel									
11 570.00	49.40	Peak	H	39.40	18.67	46.35	61.12	74.00	12.88
11 570.00	38.63	Average	H	39.40	18.67	46.35	50.35	54.00	3.65
11 570.00	49.35	Peak	V	39.40	18.67	46.35	61.07	74.00	12.93
11 570.00	38.60	Average	V	39.40	18.67	46.35	50.32	54.00	3.68
High Channel									
11 650.00	49.44	Peak	H	39.70	18.71	46.35	61.50	74.00	12.50
11 650.00	38.60	Average	H	39.70	18.71	46.35	50.66	54.00	3.34
11 650.00	49.39	Peak	V	39.70	18.71	46.35	61.45	74.00	12.55
11 650.00	38.55	Average	V	39.70	18.71	46.35	50.61	54.00	3.39

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

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13.6.4.2 Test data for 802.11n_HT20 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Low Channel									
11 490.00	49.63	Peak	H	39.30	18.65	46.35	61.23	74.00	12.77
11 490.00	38.49	Average	H	39.30	18.65	46.35	50.09	54.00	3.91
11 490.00	49.50	Peak	V	39.30	18.65	46.35	61.10	74.00	12.90
11 490.00	38.44	Average	V	39.30	18.65	46.35	50.04	54.00	3.96
Middle Channel									
11 570.00	49.56	Peak	H	39.40	18.67	46.35	61.28	74.00	12.72
11 570.00	38.70	Average	H	39.40	18.67	46.35	50.42	54.00	3.58
11 570.00	49.44	Peak	V	39.40	18.67	46.35	61.16	74.00	12.84
11 570.00	38.61	Average	V	39.40	18.67	46.35	50.33	54.00	3.67
High Channel									
11 650.00	49.70	Peak	H	39.70	18.71	46.35	61.76	74.00	12.24
11 650.00	38.75	Average	H	39.70	18.71	46.35	50.81	54.00	3.19
11 650.00	49.62	Peak	V	39.70	18.71	46.35	61.68	74.00	12.32
11 650.00	38.64	Average	V	39.70	18.71	46.35	50.70	54.00	3.30

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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13.6.4.3 Test data for 802.11n_HT40 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Low Channel									
11 510.00	49.43	Peak	H	39.30	18.65	46.35	61.03	74.00	12.97
11 510.00	38.56	Average	H	39.30	18.65	46.35	50.16	54.00	3.84
11 510.00	49.40	Peak	V	39.30	18.65	46.35	61.00	74.00	13.00
11 510.00	38.44	Average	V	39.30	18.65	46.35	50.04	54.00	3.96
High Channel									
11 590.00	49.50	Peak	H	39.40	18.67	46.35	61.22	74.00	12.78
11 590.00	38.51	Average	H	39.40	18.67	46.35	50.23	54.00	3.77
11 590.00	49.46	Peak	V	39.40	18.67	46.35	61.18	74.00	12.82
11 590.00	38.50	Average	V	39.40	18.67	46.35	50.22	54.00	3.78

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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13.6.4.4 Test data for 802.11ac_HT80 RLAN Mode

13.6.4.4.1 Test data for Multiple Transmit

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 40 GHz

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Middle Channel									
11 550.00	49.50	Peak	H	39.40	18.67	46.35	61.22	68.20	6.98
11 550.00	49.39	Peak	V	39.40	18.67	46.35	61.11	68.20	7.09

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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14. RADIATED RESTRICTED BAND EDGE MEASUREMENTS

14.1 Operating environment

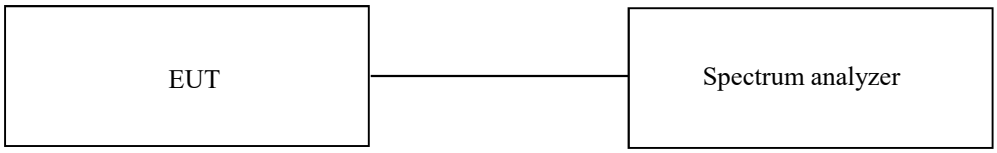
Temperature : 23 °C

Relative humidity : 45 % R.H.

14.2 Test set-up for conducted measurement

The radiated emissions measurements were performed on the 3 m, open-field test site. The EUT was placed on a non-conductive turntable above the ground plane.

The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.



14.3 Test Date

March 12, 2021 ~ March 22, 2021

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14.4 Test data for Frequency UNII I

14.4.1 Test data for 802.11a RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
5 143.010	53.40	Peak	H	34.20	12.50	46.30	53.80	74.00	20.20
5 147.900	41.57	Average	H	34.20	12.50	46.30	41.97	54.00	12.03
5 143.710	52.15	Peak	V	34.20	12.50	46.30	52.55	74.00	21.45
5 150.000	41.20	Average	V	34.20	12.50	46.30	41.60	54.00	12.40

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

14.4.2 Test data for 802.11n_HT20 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
5 146.500	53.44	Peak	H	34.20	12.50	46.30	53.84	74.00	20.16
5 147.200	41.80	Average	H	34.20	12.50	46.30	42.20	54.00	11.80
5 065.380	52.42	Peak	V	34.20	12.50	46.30	52.82	74.00	21.18
5 146.500	41.76	Average	V	34.20	12.50	46.30	42.16	54.00	11.84

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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14.4.3 Test data for 802.11n_HT40 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 149.030	60.85	Peak	H	34.20	12.50	46.30	61.25	74.00	12.75
5 149.030	46.24	Average	H	34.20	12.50	46.30	46.64	54.00	7.36
5 149.300	58.68	Peak	V	34.20	12.50	46.30	59.08	74.00	14.92
5 150.000	45.59	Average	V	34.20	12.50	46.30	45.99	54.00	8.01

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.4.4 Test data for 802.11ac_HT80 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 150.000	63.02	Peak	H	34.20	12.50	46.30	63.42	74.00	10.58
5 148.600	49.51	Average	H	34.20	12.50	46.30	49.91	54.00	4.09
5 150.000	62.15	Peak	V	34.20	12.50	46.30	62.55	74.00	11.45
5 147.900	48.01	Average	V	34.20	12.50	46.30	48.41	54.00	5.59

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

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14.5 Test data for Frequency UNII 2A

14.5.1 Test data for 802.11a RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
5 354.760	55.68	Peak	H	34.10	13.31	46.28	56.81	74.00	17.19
5 350.560	43.86	Average	H	34.10	13.31	46.28	44.99	54.00	9.01
5 360.350	54.79	Peak	V	34.10	13.31	46.28	55.92	74.00	18.08
5 350.700	43.60	Average	V	34.10	13.31	46.28	44.73	54.00	9.27

Tabulated test data for Restricted Band

Remark - "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

14.5.2 Test data for 802.11n_HT20 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
5 350.560	54.37	Peak	H	34.10	13.31	46.28	55.50	74.00	18.50
5 350.980	43.37	Average	H	34.10	13.31	46.28	44.50	54.00	9.50
5 351.120	54.23	Peak	V	34.10	13.31	46.28	55.36	74.00	18.64
5 351.260	43.21	Average	V	34.10	13.31	46.28	44.34	54.00	9.66

Tabulated test data for Restricted Band

Remark - "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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14.5.3 Test data for 802.11n_HT40 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 350.420	62.43	Peak	H	34.10	13.31	46.28	63.56	74.00	10.44
5 350.000	46.87	Average	H	34.10	13.31	46.28	48.00	54.00	6.00
5 351.120	58.89	Peak	V	34.10	13.31	46.28	60.02	74.00	13.98
5 350.000	45.07	Average	V	34.10	13.31	46.28	46.20	54.00	7.80

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.5.4 Test data for 802.11ac_HT80 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 352.380	65.71	Peak	H	34.10	13.31	46.28	66.84	74.00	7.16
5 351.400	49.89	Average	H	34.10	13.31	46.28	51.02	54.00	2.98
5 352.240	64.48	Peak	V	34.10	13.31	46.28	65.61	74.00	8.39
5 350.280	49.87	Average	V	34.10	13.31	46.28	51.00	54.00	3.00

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

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14.6 Test data for Frequency UNII 2C

14.6.1 Test data for 802.11a RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
5 450.620	54.60	Peak	H	34.10	13.31	46.28	55.73	74.00	18.27
5 460.000	42.22	Average	H	34.10	13.31	46.28	43.35	54.00	10.65
5 455.920	55.05	Peak	V	34.10	13.31	46.28	56.18	74.00	17.82
5 457.150	43.33	Average	V	34.10	13.31	46.28	44.46	54.00	9.54

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

14.6.2 Test data for 802.11n_HT20 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
5 457.670	53.12	Peak	H	34.10	13.31	46.28	54.25	74.00	19.75
5 447.260	42.09	Average	H	34.10	13.31	46.28	43.22	54.00	10.78
5 449.030	54.17	Peak	V	34.10	13.31	46.28	55.30	74.00	18.70
5 458.950	43.06	Average	V	34.10	13.31	46.28	44.19	54.00	9.81

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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14.6.3 Test data for 802.11n_HT40 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 448.980	53.60	Peak	H	34.10	13.31	46.28	54.73	74.00	19.27
5 460.000	41.40	Average	H	34.10	13.31	46.28	42.53	54.00	11.47
5 459.850	53.96	Peak	V	34.10	13.31	46.28	55.09	74.00	18.91
5 460.000	42.93	Average	V	34.10	13.31	46.28	44.06	54.00	9.94

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.4 Test data for 802.11ac_HT80 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 452.270	63.83	Peak	H	34.10	13.31	46.28	64.96	74.00	9.04
5 459.470	48.37	Average	H	34.10	13.31	46.28	49.50	54.00	4.50
5 453.710	62.71	Peak	V	34.10	13.31	46.28	63.84	74.00	10.16
5 459.550	49.36	Average	V	34.10	13.31	46.28	50.49	54.00	3.51

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

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14.7 Test data for Frequency U-NII-3

14.7.1 Test data for 802.11a RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Low Channel									
5 678.450	50.92	Peak	H	34.10	15.39	46.25	54.16	89.25	35.09
5 718.050	51.70	Peak	H	34.10	15.39	46.25	54.94	110.25	55.31
5 723.730	54.20	Peak	H	34.10	15.39	46.25	57.44	119.30	61.86
5 854.600	50.66	Peak	H	34.40	15.55	46.23	54.38	111.71	57.33
5 871.630	50.28	Peak	H	34.40	15.55	46.23	54.00	106.14	52.14
5 875.020	50.61	Peak	H	34.40	15.55	46.23	54.33	105.19	50.86
5 686.390	51.21	Peak	V	34.10	15.39	46.25	54.45	95.13	40.68
5 716.350	51.35	Peak	V	34.10	15.39	46.25	54.59	109.78	55.19
5 723.350	52.07	Peak	V	34.10	15.39	46.25	55.31	118.44	63.13
5 853.860	50.78	Peak	V	34.40	15.55	46.23	54.50	113.40	58.90
5 871.630	50.44	Peak	V	34.40	15.55	46.23	54.16	106.14	51.98
5 879.020	50.31	Peak	V	34.40	15.55	46.23	54.03	102.23	48.20

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
High Channel									
5 691.780	50.86	Peak	H	34.10	15.39	46.25	54.10	99.12	45.02
5 712.080	50.90	Peak	H	34.10	15.39	46.25	54.14	108.58	54.44
5 721.670	51.37	Peak	H	34.10	15.39	46.25	54.61	114.61	60.00
5 851.540	51.98	Peak	H	34.40	15.55	46.23	55.70	118.69	62.99
5 858.990	50.73	Peak	H	34.40	15.55	46.23	54.45	109.68	55.23
5 883.420	50.76	Peak	H	34.40	15.55	46.23	54.48	98.97	44.49
5 698.330	51.51	Peak	V	34.10	15.39	46.25	54.75	103.96	49.21
5 715.270	50.64	Peak	V	34.10	15.39	46.25	53.88	109.48	55.60
5 722.110	50.51	Peak	V	34.10	15.39	46.25	53.75	115.61	61.86
5 850.290	51.74	Peak	V	34.40	15.55	46.23	55.46	121.54	66.08
5 859.250	50.41	Peak	V	34.40	15.55	46.23	54.13	109.61	55.48
5 922.530	50.07	Peak	V	34.40	15.55	46.23	53.79	70.03	16.24

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

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14.7.2 Test data for 802.11n_HT20 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Low Channel									
5 686.790	51.95	Peak	H	34.10	15.39	46.25	55.19	95.42	40.23
5 714.640	51.62	Peak	H	34.10	15.39	46.25	54.86	109.30	54.44
5 723.650	61.29	Peak	H	34.10	15.39	46.25	64.53	119.12	54.59
5 854.160	50.18	Peak	H	34.40	15.55	46.23	53.90	112.72	58.82
5 858.570	50.42	Peak	H	34.40	15.55	46.23	54.14	109.80	55.66
5 917.530	50.86	Peak	H	34.40	15.55	46.23	54.58	73.73	19.15
5 659.120	50.64	Peak	V	34.10	15.39	46.25	53.88	74.95	21.07
5 717.030	50.47	Peak	V	34.10	15.39	46.25	53.71	109.97	56.26
5 724.720	54.68	Peak	V	34.10	15.39	46.25	57.92	121.56	63.64
5 850.250	50.31	Peak	V	34.40	15.55	46.23	54.03	121.63	67.60
5 870.550	50.18	Peak	V	34.40	15.55	46.23	53.90	106.45	52.55
5 916.980	50.20	Peak	V	34.40	15.55	46.23	53.92	74.13	20.21

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
High Channel									
5 674.750	50.54	Peak	H	34.10	15.39	46.25	53.78	86.52	32.74
5 711.800	50.85	Peak	H	34.10	15.39	46.25	54.09	108.50	54.41
5 722.610	51.01	Peak	H	34.10	15.39	46.25	54.25	116.75	62.50
5 850.520	51.09	Peak	H	34.40	15.55	46.23	54.81	121.01	66.20
5 859.070	51.20	Peak	H	34.40	15.55	46.23	54.92	109.66	54.74
5 906.540	51.40	Peak	H	34.40	15.55	46.23	55.12	81.86	26.74
5 676.400	50.29	Peak	V	34.10	15.39	46.25	53.53	87.74	34.21
5 719.910	50.36	Peak	V	34.10	15.39	46.25	53.60	110.77	57.17
5 720.630	50.66	Peak	V	34.10	15.39	46.25	53.90	112.24	58.34
5 854.050	51.18	Peak	V	34.40	15.55	46.23	54.90	112.97	58.07
5 869.100	50.73	Peak	V	34.40	15.55	46.23	54.45	106.85	52.40
5 914.990	50.20	Peak	V	34.40	15.55	46.23	53.92	75.61	21.69

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

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14.7.3 Test data for 802.11n_HT40 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Low Channel									
5 692.080	50.51	Peak	H	34.10	15.39	46.25	53.75	99.34	45.59
5 718.530	60.65	Peak	H	34.10	15.39	46.25	63.89	110.39	46.50
5 724.240	64.53	Peak	H	34.10	15.39	46.25	67.77	120.47	52.70
5 853.240	50.32	Peak	H	34.40	15.55	46.23	54.04	114.81	60.77
5 872.920	50.45	Peak	H	34.40	15.55	46.23	54.17	105.78	51.61
5 904.100	50.42	Peak	H	34.40	15.55	46.23	54.14	83.67	29.53
5 682.340	50.91	Peak	V	34.10	15.39	46.25	54.15	92.13	37.98
5 718.290	53.14	Peak	V	34.10	15.39	46.25	56.38	110.32	53.94
5 723.060	56.69	Peak	V	34.10	15.39	46.25	59.93	117.78	57.85
5 854.840	50.37	Peak	V	34.40	15.55	46.23	54.09	111.16	57.07
5 856.790	50.20	Peak	V	34.40	15.55	46.23	53.92	110.30	56.38
5 880.870	50.13	Peak	V	34.40	15.55	46.23	53.85	100.86	47.01

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
High Channel									
5 680.190	51.10	Peak	H	34.10	15.39	46.25	54.34	90.54	36.20
5 717.210	50.83	Peak	H	34.10	15.39	46.25	54.07	110.02	55.95
5 723.600	51.58	Peak	H	34.10	15.39	46.25	54.82	119.01	64.19
5 850.740	50.36	Peak	H	34.40	15.55	46.23	54.08	120.51	66.43
5 867.760	50.79	Peak	H	34.40	15.55	46.23	54.51	107.23	52.72
5 904.850	49.87	Peak	H	34.40	15.55	46.23	53.59	83.11	29.52
5 659.170	50.28	Peak	V	34.10	15.39	46.25	53.52	74.99	21.47
5 705.860	50.12	Peak	V	34.10	15.39	46.25	53.36	106.84	53.48
5 720.230	50.79	Peak	V	34.10	15.39	46.25	54.03	111.32	57.29
5 850.640	50.46	Peak	V	34.40	15.55	46.23	54.18	120.74	66.56
5 855.570	51.00	Peak	V	34.40	15.55	46.23	54.72	110.64	55.92
5 885.410	49.91	Peak	V	34.40	15.55	46.23	53.63	97.50	43.87

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

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14.7.4 Test data for 802.11ac_HT80 RLAN Mode

-. Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode

-. Video bandwidth : 3 MHz for Peak and Average Mode

-. Measurement distance : 3 m

-. Duty Cycle : > 98 %

-. Result : Pass

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP FACTOR	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
Middle Channel									
5 693.130	55.65	Peak	H	34.10	15.39	46.25	58.89	100.12	41.23
5 711.460	61.69	Peak	H	34.10	15.39	46.25	64.93	108.41	43.48
5 724.940	62.32	Peak	H	34.10	15.39	46.25	65.56	122.06	56.50
5 852.160	57.36	Peak	H	34.40	15.55	46.23	61.08	117.28	56.20
5 858.530	53.01	Peak	H	34.40	15.55	46.23	56.73	109.81	53.08
5 917.930	50.44	Peak	H	34.40	15.55	46.23	54.16	73.43	19.27
5 685.740	51.53	Peak	V	34.10	15.39	46.25	54.77	94.65	39.88
5 718.870	56.60	Peak	V	34.10	15.39	46.25	59.84	110.48	50.64
5 722.110	56.98	Peak	V	34.10	15.39	46.25	60.22	115.61	55.39
5 853.540	52.32	Peak	V	34.40	15.55	46.23	56.04	114.13	58.09
5 857.590	51.34	Peak	V	34.40	15.55	46.23	55.06	110.07	55.01
5 886.960	51.09	Peak	V	34.40	15.55	46.23	54.81	96.35	41.54

Tabulated test data for Restricted Band

Remark - “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBµV/m) - Emission Level (dBµV/m)

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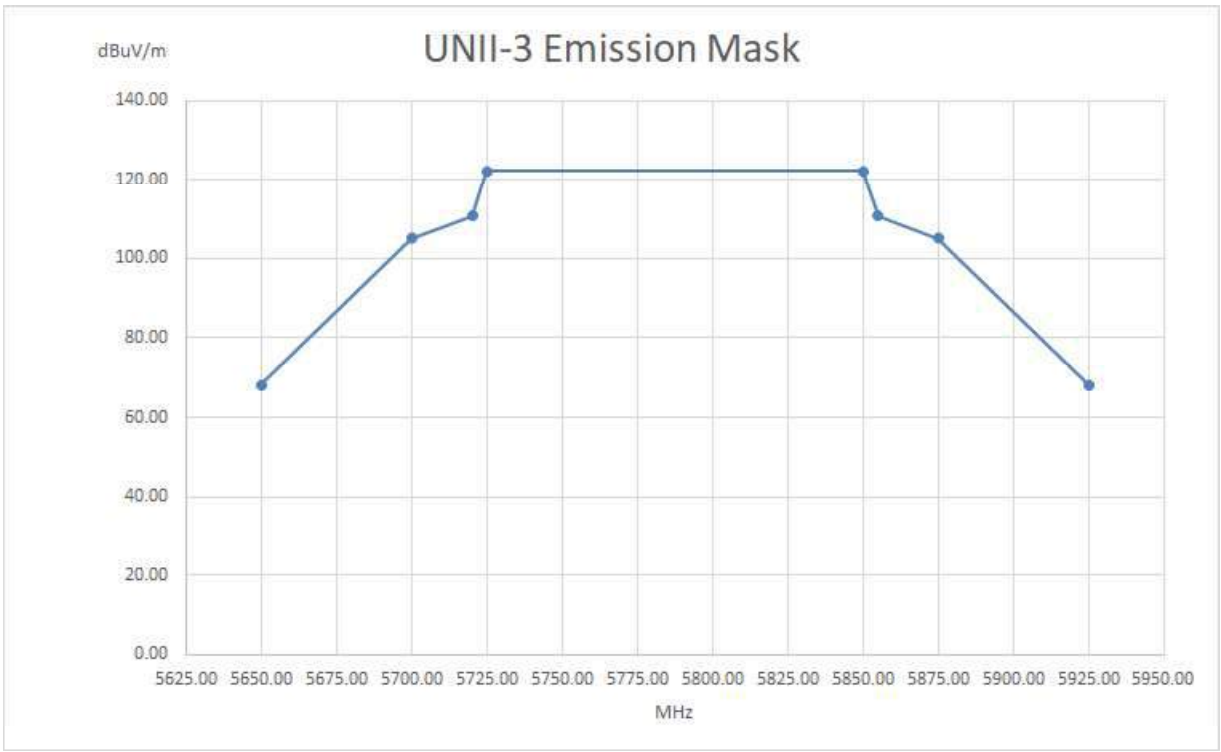
14.7.5 U-NII-3 Emission Limits

14.7.5.1 Emission Mask Plots



Remark.

-. Title 47 → Part 15 → Subpart E—UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES

§ 15.407 General technical requirements.

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

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

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15. CONDUCTED EMISSION TEST

15.1 Operating environment

Temperature : 23 °C

Relative humidity : 45 % R.H.

15.2 Test set-up

The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μH + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

15.3 Test Date

March 12, 2021 ~ March 22, 2021

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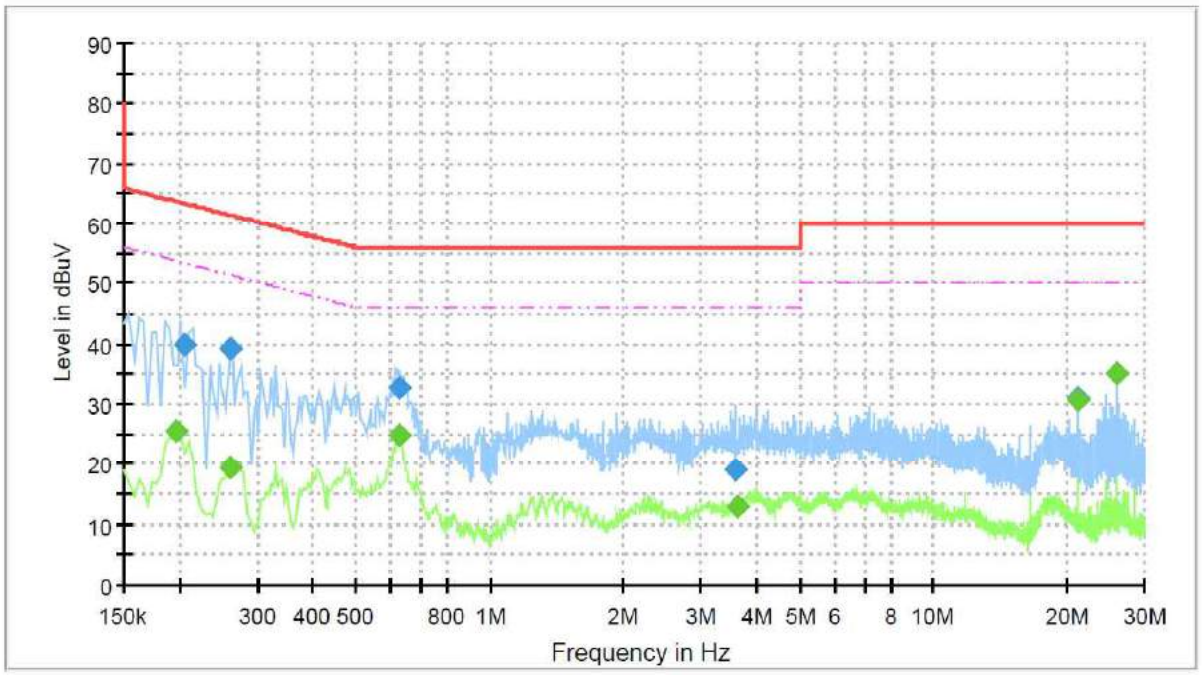
15.4 Test data for WLAN 5 GHz

-. Resolution bandwidth : 9 kHz

-. Frequency range : 0.15 MHz ~ 30 MHz

-. Tested Line : LIVE LINE

-. Antenna 0, Antenna 1 and Multiple transmit tested, but the worst data were recorded.



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.198	---	25.65	53.72	28.07	3000.0	9.0	L1	9.93
0.206	39.72	---	63.39	23.66	3000.0	9.0	L1	9.93
0.262	---	19.58	51.38	31.80	3000.0	9.0	L1	9.93
0.262	39.17	---	61.38	22.22	3000.0	9.0	L1	9.93
0.624	32.82	---	56.00	23.18	3000.0	9.0	L1	9.94
0.628	---	24.88	46.00	21.12	3000.0	9.0	L1	9.94
3.578	19.15	---	56.00	36.85	3000.0	9.0	L1	10.04
3.606	---	12.86	46.00	33.14	3000.0	9.0	L1	10.04
21.166	31.01	---	60.00	28.99	3000.0	9.0	L1	10.61
21.166	---	30.83	50.00	19.17	3000.0	9.0	L1	10.61
25.871	---	35.09	50.00	14.91	3000.0	9.0	L1	10.68
25.871	35.25	---	60.00	24.75	3000.0	9.0	L1	10.68

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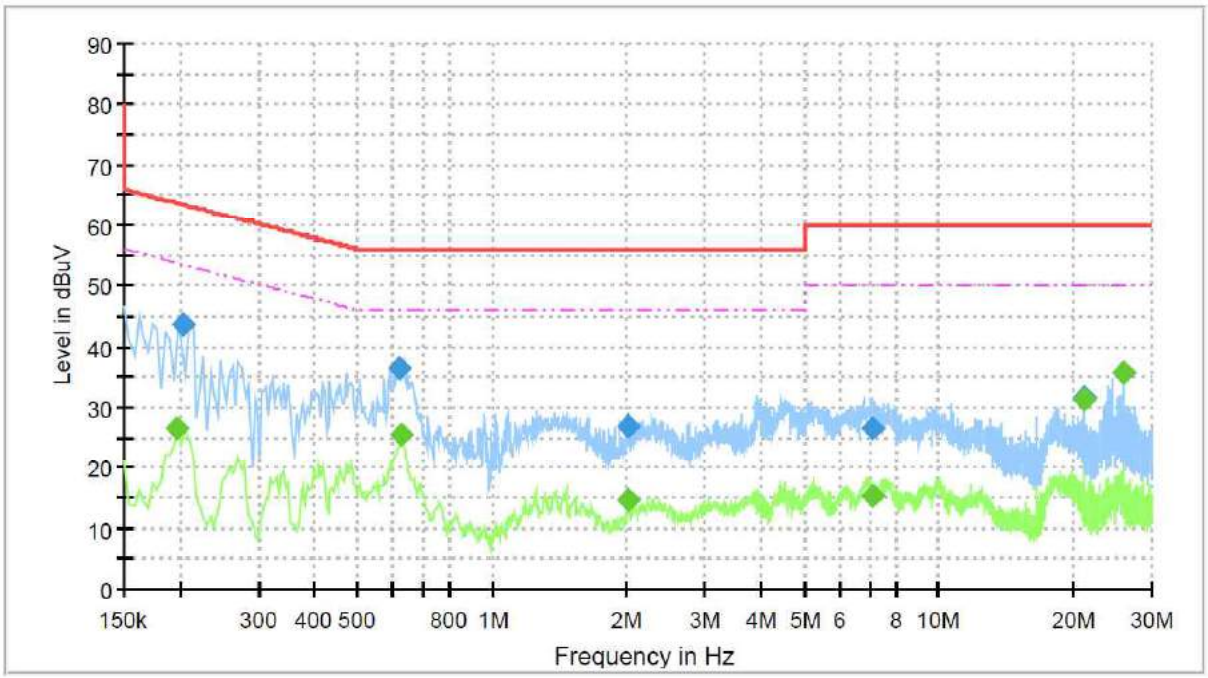
-. Tested Line : NEUTRAL LINE



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.198	---	26.47	53.72	27.24	3000.0	9.0	N	9.94
0.203	43.62	---	63.51	19.89	3000.0	9.0	N	9.94
0.616	36.39	---	56.00	19.61	3000.0	9.0	N	9.95
0.628	---	25.73	46.00	20.27	3000.0	9.0	N	9.95
2.018	---	14.67	46.00	31.33	3000.0	9.0	N	10.03
2.022	26.89	---	56.00	29.11	3000.0	9.0	N	10.03
7.083	---	15.50	50.00	34.50	3000.0	9.0	N	10.21
7.131	26.43	---	60.00	33.57	3000.0	9.0	N	10.21
21.166	31.66	---	60.00	28.34	3000.0	9.0	N	10.73
21.166	---	31.53	50.00	18.47	3000.0	9.0	N	10.73
25.871	---	35.63	50.00	14.37	3000.0	9.0	N	10.76
25.871	35.82	---	60.00	24.18	3000.0	9.0	N	10.76

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

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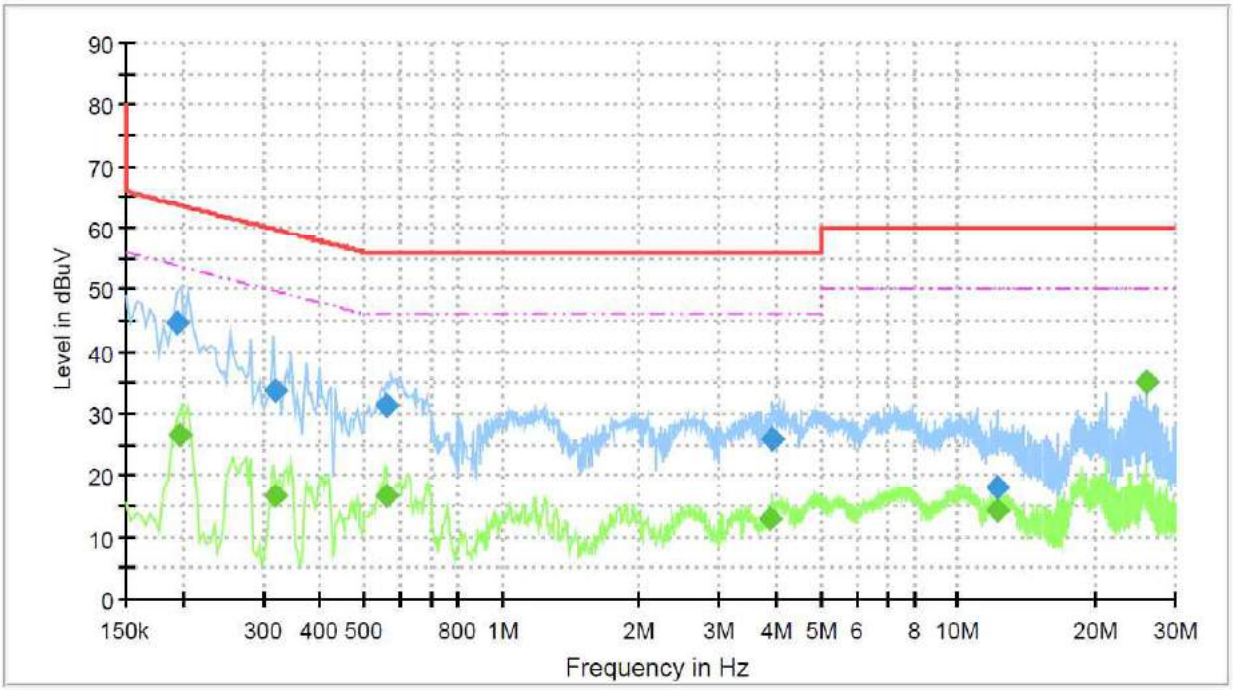
15.5 Test data for Intermodulation Mode(WLAN 2.4 GHz + WLAN 5 GHz)

-. Resolution bandwidth : 9 kHz

-. Frequency range : 0.15 MHz ~ 30 MHz

-. Tested Line : LIVE LINE



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.194	44.67	---	63.89	19.21	3000.0	9.0	L1	9.93
0.198	---	26.68	53.72	27.03	3000.0	9.0	L1	9.93
0.319	---	16.66	49.75	33.09	3000.0	9.0	L1	9.93
0.319	33.77	---	59.75	25.98	3000.0	9.0	L1	9.93
0.556	31.21	---	56.00	24.79	3000.0	9.0	L1	9.93
0.556	---	16.60	46.00	29.40	3000.0	9.0	L1	9.93
3.883	---	12.86	46.00	33.14	3000.0	9.0	L1	10.05
3.911	26.07	---	56.00	29.93	3000.0	9.0	L1	10.05
12.153	---	14.31	50.00	35.69	3000.0	9.0	L1	10.39
12.217	18.10	---	60.00	41.90	3000.0	9.0	L1	10.39
25.871	---	35.04	50.00	14.96	3000.0	9.0	L1	10.68
25.871	35.21	---	60.00	24.79	3000.0	9.0	L1	10.68

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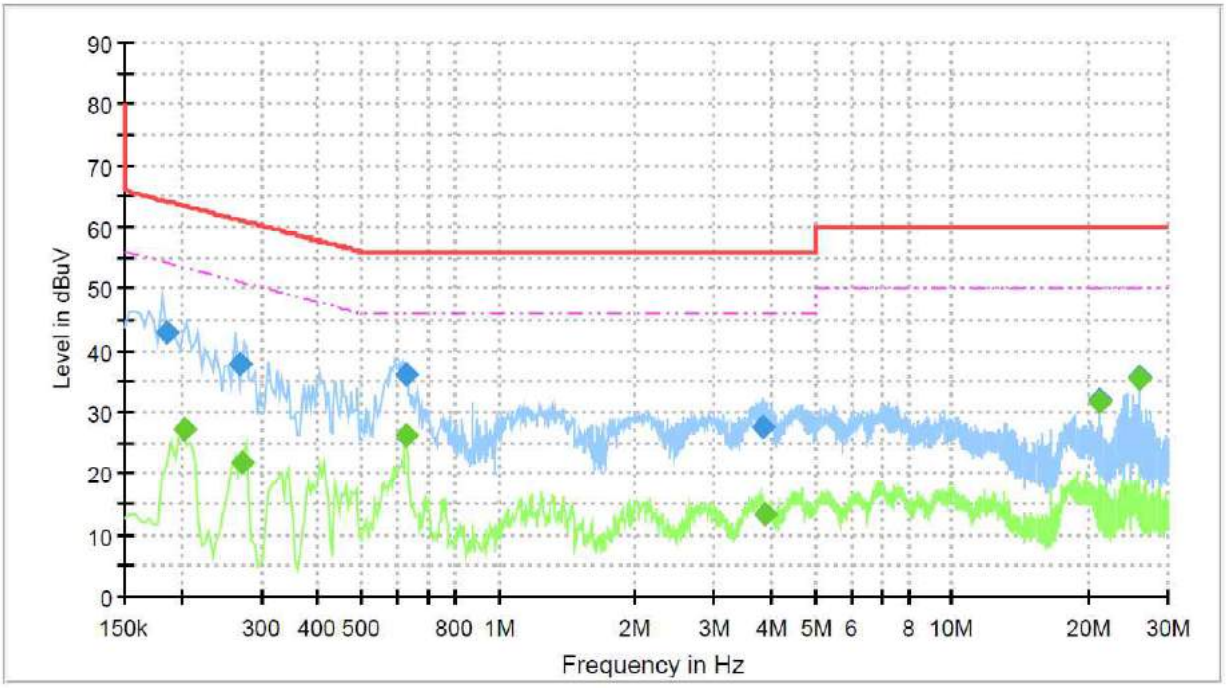
-. Tested Line : NEUTRAL LINE



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.187	42.97	---	64.19	21.22	3000.0	9.0	N	9.94
0.203	---	27.10	53.51	26.40	3000.0	9.0	N	9.94
0.269	37.86	---	61.13	23.27	3000.0	9.0	N	9.94
0.274	---	21.70	51.01	29.31	3000.0	9.0	N	9.94
0.624	---	26.08	46.00	19.92	3000.0	9.0	N	9.95
0.624	36.27	---	56.00	19.73	3000.0	9.0	N	9.95
3.848	27.63	---	56.00	28.37	3000.0	9.0	N	10.07
3.876	---	13.35	46.00	32.65	3000.0	9.0	N	10.07
21.166	31.96	---	60.00	28.04	3000.0	9.0	N	10.73
21.166	---	31.55	50.00	18.45	3000.0	9.0	N	10.73
25.871	---	35.59	50.00	14.41	3000.0	9.0	N	10.76
25.871	35.81	---	60.00	24.19	3000.0	9.0	N	10.76

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

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16. DYNAMIC FREQUENCY SELECTION (DFS)

16.1 Operating environment

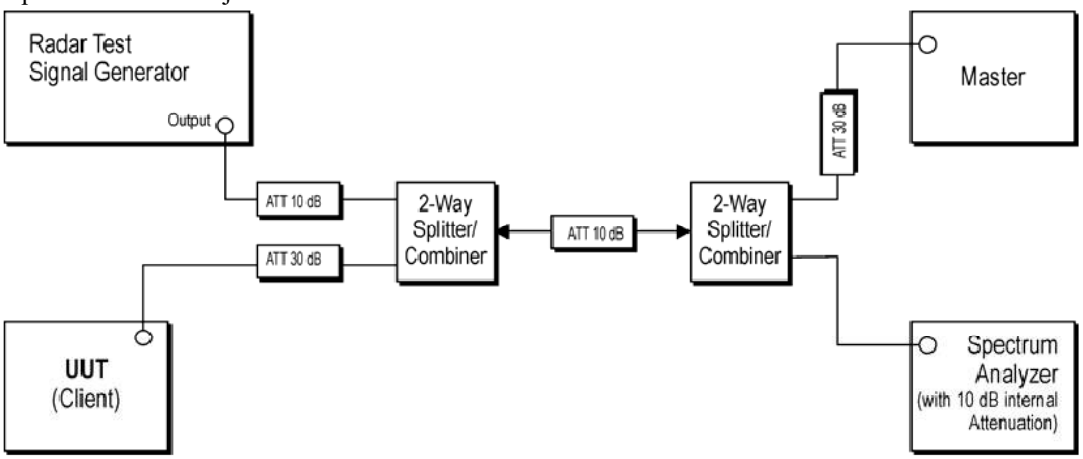
Temperature : 23 °C

Relative humidity : 45 % R.H.

16.2 Test set-ups

The FCC 06-96 and RSS-210 A9.3 describes a conducted test setup. A conducted test setup was user this testing. Figure 1 shows the typical test setup. Each one channel selected between 5 250 MHz and 5 350 MHz, 5 470 MHz and 5 725 MHz is chosen for the testing.

Figure 1. Setup for Client with injection at the Master



The operational behavior and individual DFS requirements that are associated with these modes are as follows:

<Master Devices>

a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5 250 – 5 350 MHz and 5 470 – 5 725 MHz bands. DFS is not required in the 5 150 – 5 250 MHz or 5 725 – 5 825 MHz bands.

b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.

c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.

d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).

e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.

f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period. 3

g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

<Client Devices>

a) A Client Device will not transmit before having received appropriate control signals from a Master Device.

b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1 apply.

d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.

e) The client test frequency must be monitored to ensure no transmission of any type has occurred for 30 minutes. Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.

<Channel Connection Information>

a) Master Devices : RF-AX88U

b) Client(=EUT) Devices : WCT731

c) Connect to test channel : See next page for measurement data.

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16.3 DFS Test Signals

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{PRI_{\mu sec}}\right)\right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per *Burst*	Number of *Bursts*	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

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16.4 Technical Requirement Specification

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spreading	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes

16.5 Test Date

March 12, 2021 ~ March 22, 2021

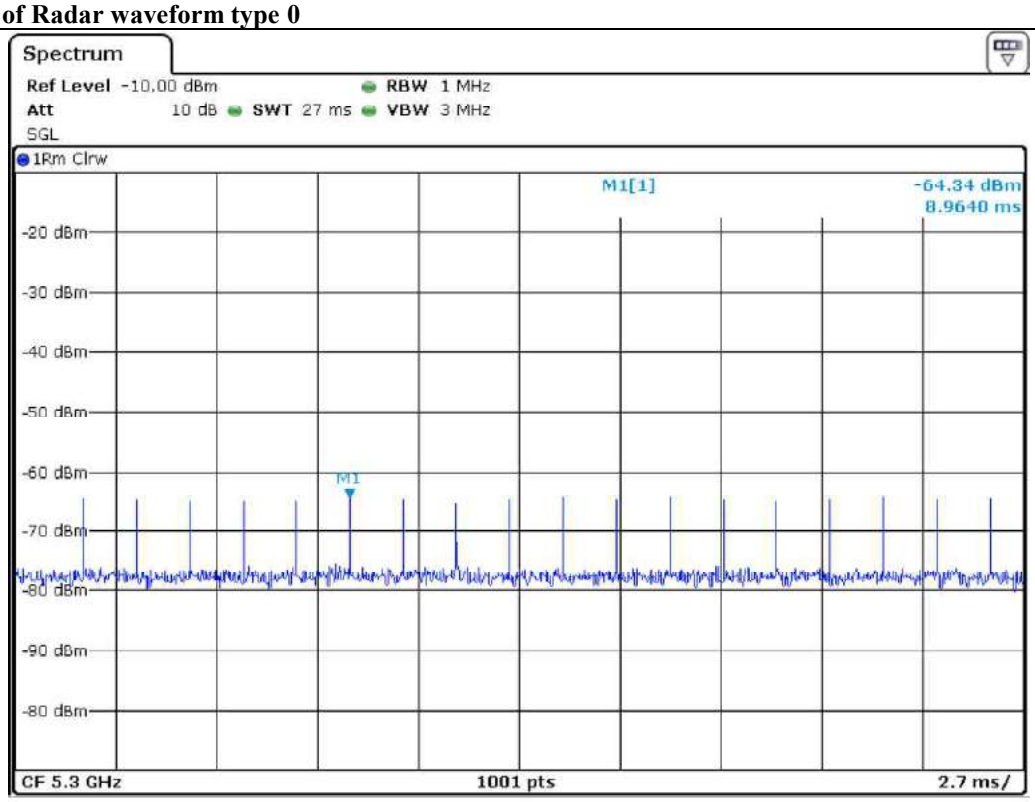
16.6 Test data

Band	Frequency (MHz)	Channel move time(s)		Channel closing transmission time(ms)	
		Measured	Limit	Measured	Limit
UNII 2A	5 320.00	0.90	10.00	3.20	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.
UNII 2C	5 500.00	0.80		2.20	

Note. Channel closing transmission time: 16 * 0.2 ms = 3.20 ms, 11 * 0.2 ms = 2.20 ms

16.6.1 UNII 2A

16.6.1.1 Plot of Radar waveform type 0



Note: The calibrated conducted DFS detection threshold level is set to -64.34 dBm (-62+1+0.50=-60.50 dBm)

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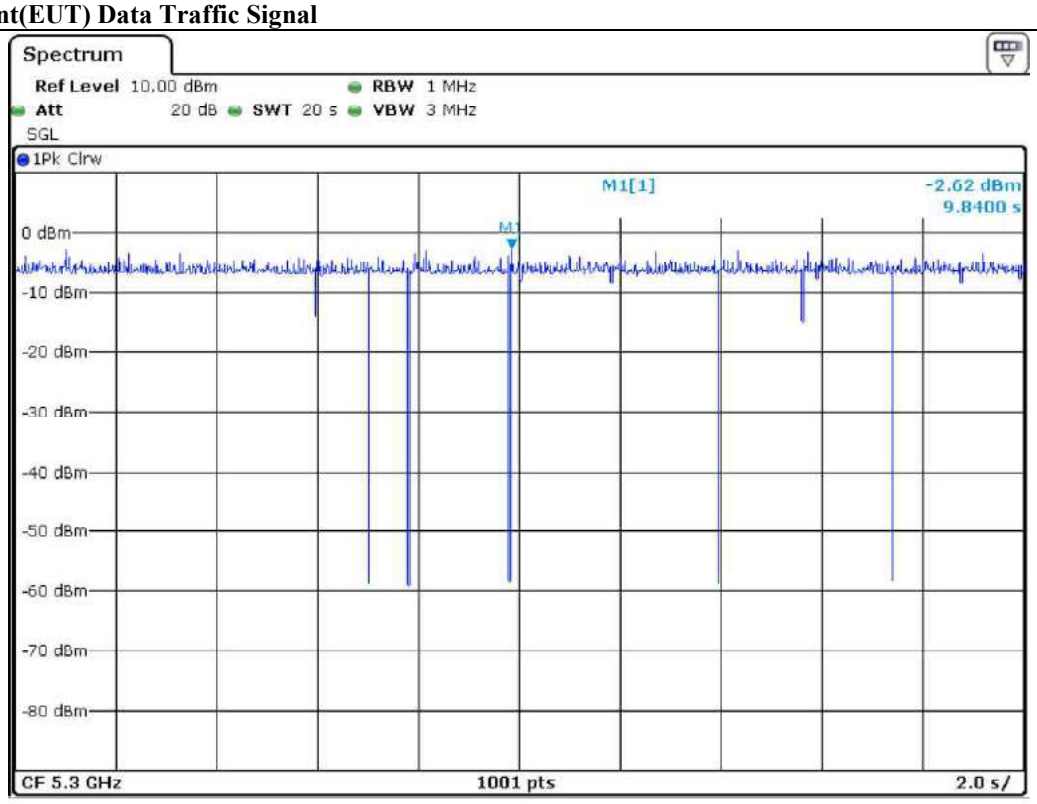
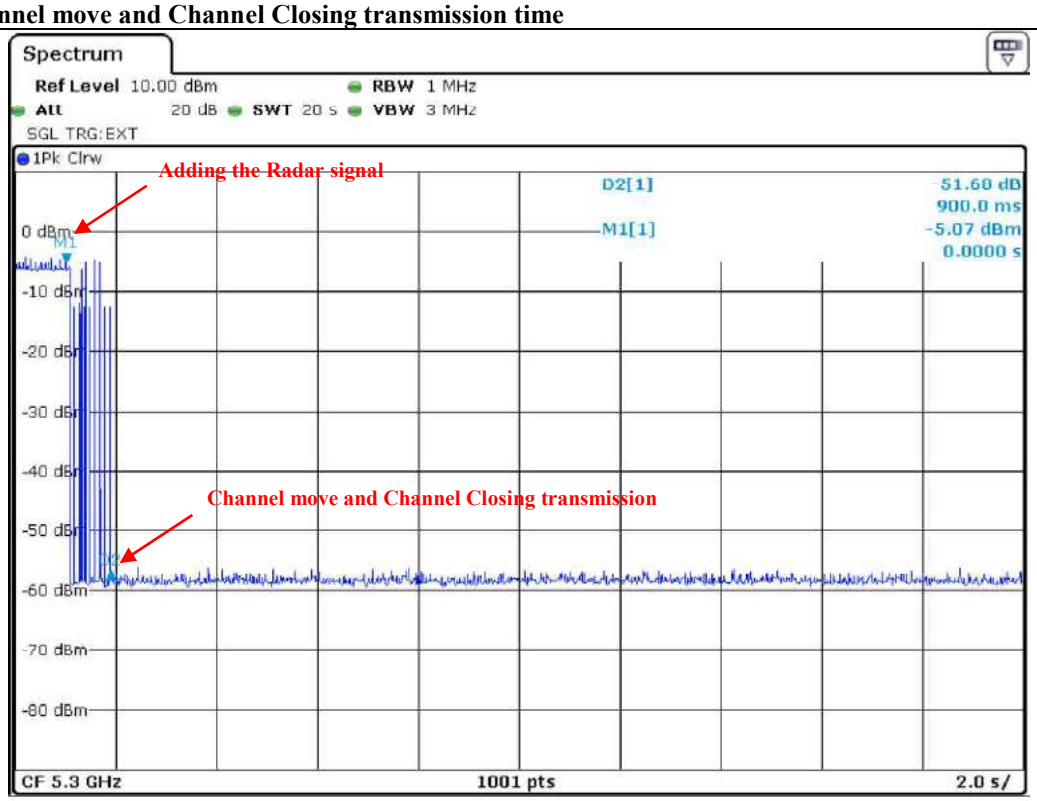
16.6.1.2 No traffic signal(master signal)

16.6.1.3 Client(EUT) Data Traffic Signal

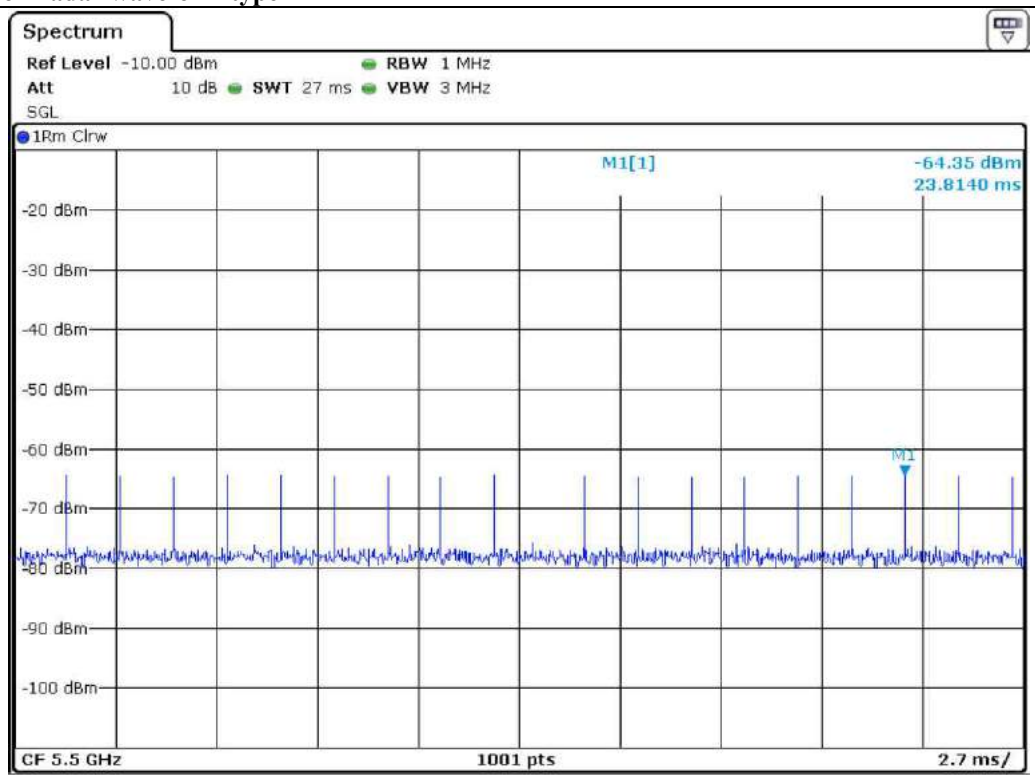


16.6.1.4 Channel move and Channel Closing transmission time



16.6.2 UNII 3

16.6.2.1 Plot of Radar waveform type 1



Note: The calibrated conducted DFS detection threshold level is set to -64.35 dBm (-62+1+0.10=-60.90 dBm)

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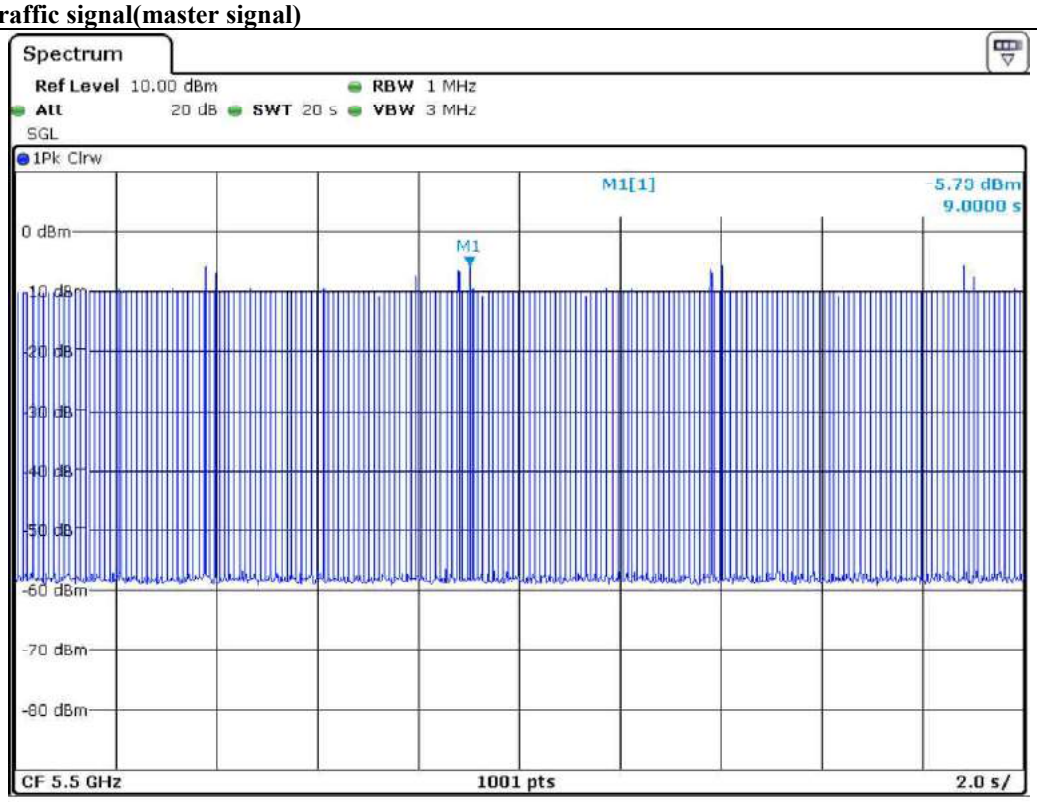
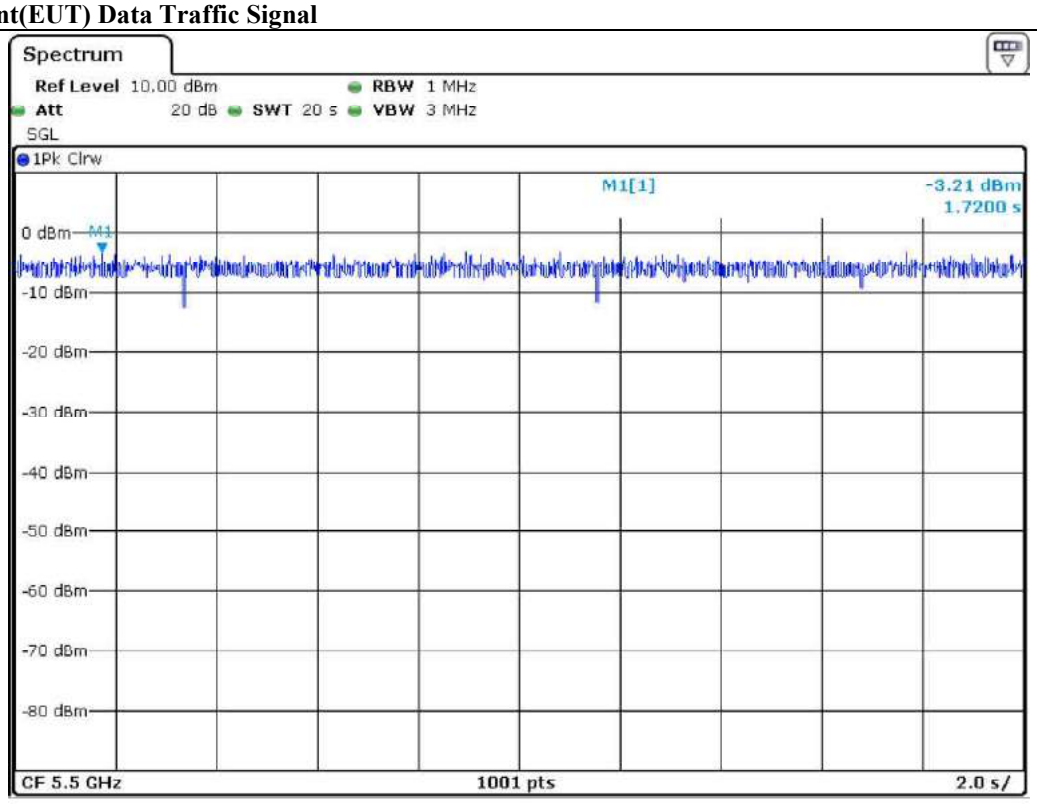
16.6.2.2 No traffic signal(master signal)



16.6.2.3 Client(EUT) Data Traffic Signal



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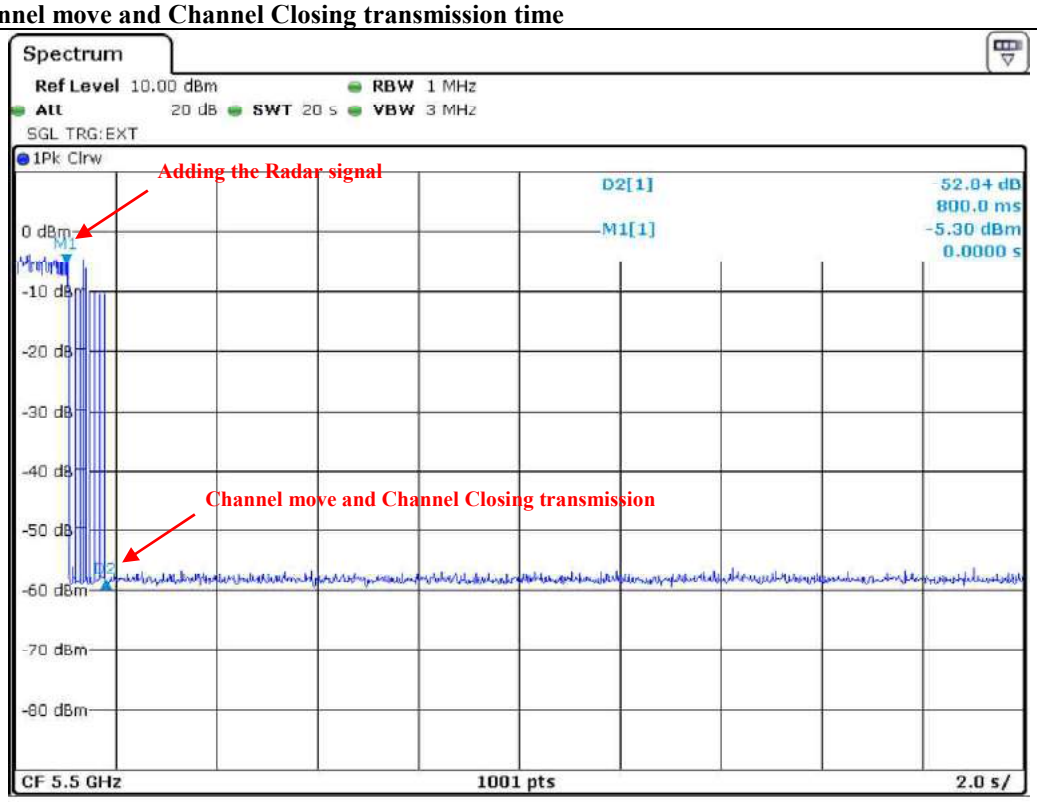
16.6.2.4 Channel move and Channel Closing transmission time



17. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV40-N	Rohde & Schwarz	Signal Analyzer	102177	Apr. 20, 2020 (1Y)
FSW43	Rohde & Schwarz	Signal Analyzer	104544	Jul. 15, 2020 (1Y)
ESW	Rohde & Schwarz	EMI Test Receiver	101851	Mar. 22, 2021 (1Y)
NRP-Z81	Rohde & Schwarz	Wide band Sensor	101975	Feb. 09, 2021 (1Y)
SSE-43CI-A	Samkun Tech	Humidity Chamber	60712	Feb. 09, 2021 (1Y)
E3632A	FinePower	DC Power supply	MY50370016	Feb. 08, 2021 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 16, 2020 (1Y)
PAM-118A	Com-Power	Pre-Amplifier	18040081	Oct. 12, 2020 (1Y)
PAM-840A	Com-Power	Pre-Amplifier	461339	Oct. 16, 2020 (1Y)
DT3000-3t	Innco System	Turn Table	DT3000/093	N/A
MA-4000XPET	Innco System	Antenna Master	MA4000/509	N/A
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 24, 2020 (2Y)
HLP-2008	TDK	Hybrid Antenna	131316	Feb. 27, 2020 (2Y)
AH-118	Com-Power	Horn Antenna	10050061	Oct. 15, 2020 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 07, 2021(1Y)
ESR3	Rohde & Schwarz	EMI TEST RECEIVER	102602	Mar. 15, 2021 (1Y)
NSLK8126	Schwarzbeck	AMN	8126-404	Mar. 15, 2021 (1Y)
ESH3Z2	Rohde & Schwarz	PULSE LIMITER	357.8810.52	Mar. 15, 2021 (1Y)
D-05180-2	RLC Electronis Inc.	Combiner	0813	N/A
11636B	Hewlett Packard	Combiner	12268	N/A
SMBV100A	R/S	Signal Generator	260423	Feb. 09, 2021 (1Y)
RF-AX88U	ASUS	Dual Band Gigabit Router	NA	N/A

Note. Dual Band Gigabit Router(Model : RF-AX88U) Information.

; FCC ID : MSQ-RTAXHP00, IC ID : 3568A-RTAXHP00

Note. This Device not support TPC Function.

All test equipment used is calibrated on a regular basis.

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