

8.4.2 Test data for Antenna 1

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	21.42	12.67	29.47	16.80
	Middle	5 200	21.66	12.67	29.47	16.80
	High	5 240	21.94	12.85	29.47	16.62
5 725 ~ 5 850	Low	5 745	20.50	10.69	29.59	18.90
	Middle	5 785	21.42	17.19	29.59	12.40
	High	5 825	20.38	9.08	29.59	20.51

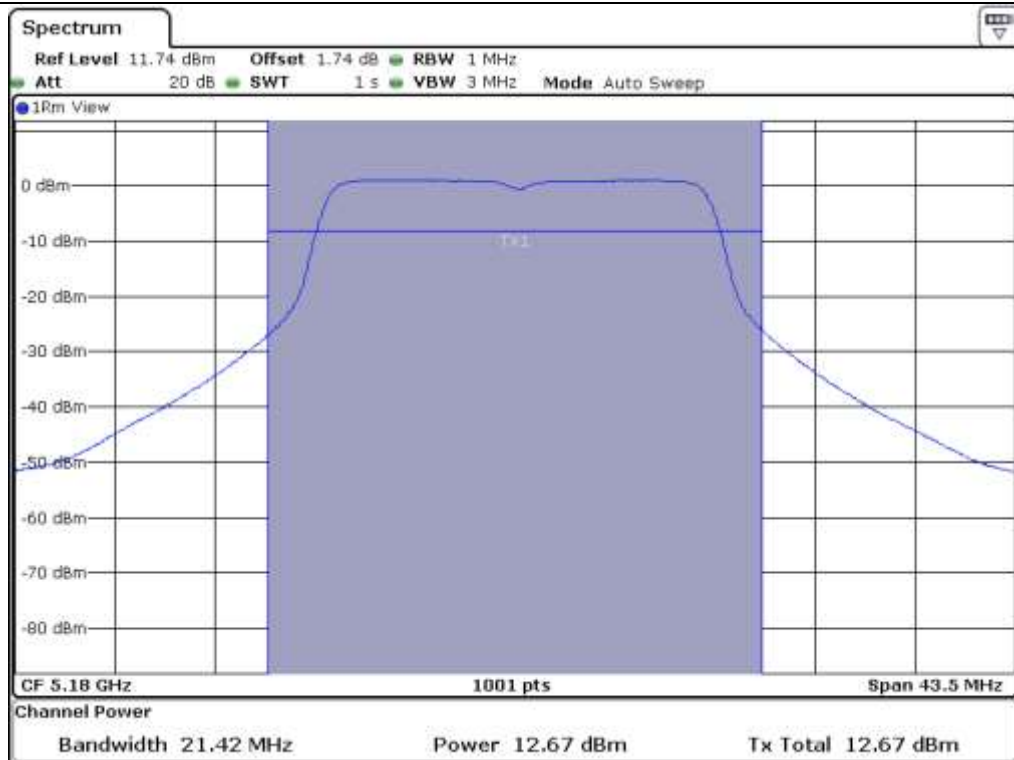
Remark: See next page for measurement data.

-. IC Test data

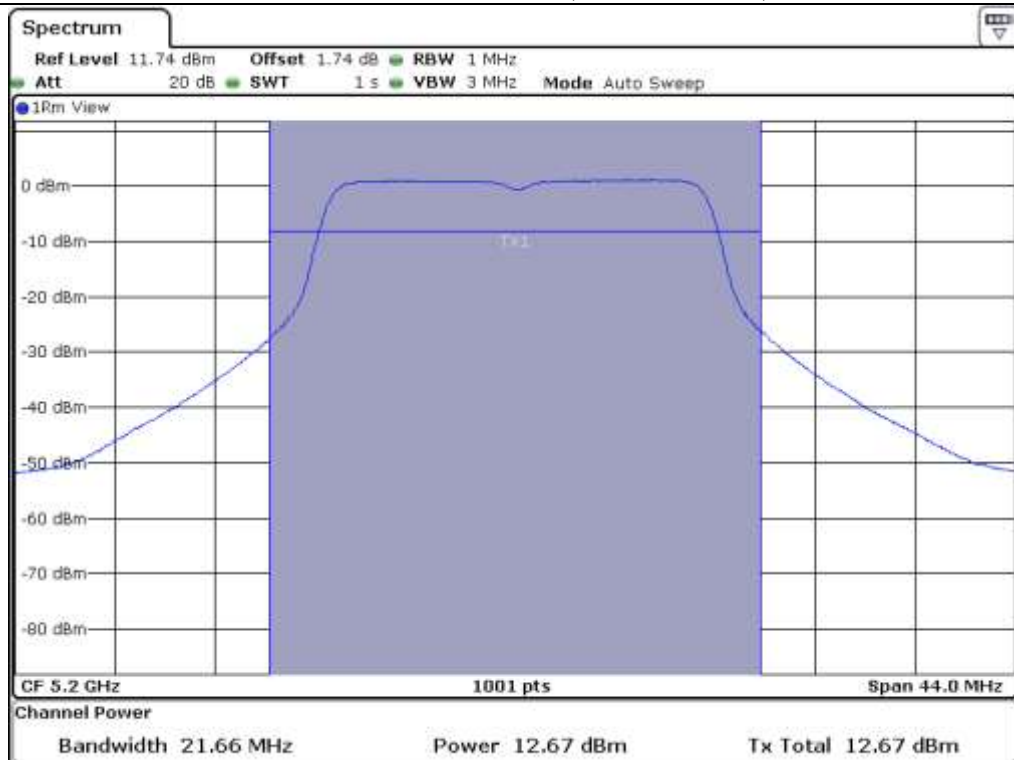
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.53	16.50	12.60	22.16	3.03	19.13
	Middle	5 200		16.50	12.59	22.16	3.04	19.12
	High	5 240		16.46	12.81	22.16	2.82	19.34
5 725 ~ 5 825	Low	5 745	6.42	16.46	9.39	29.59	20.20	-
	Middle	5 785		16.82	16.64	29.59	12.95	-
	High	5 825		16.46	9.71	29.59	19.88	-

Remark: See next page for measurement data.

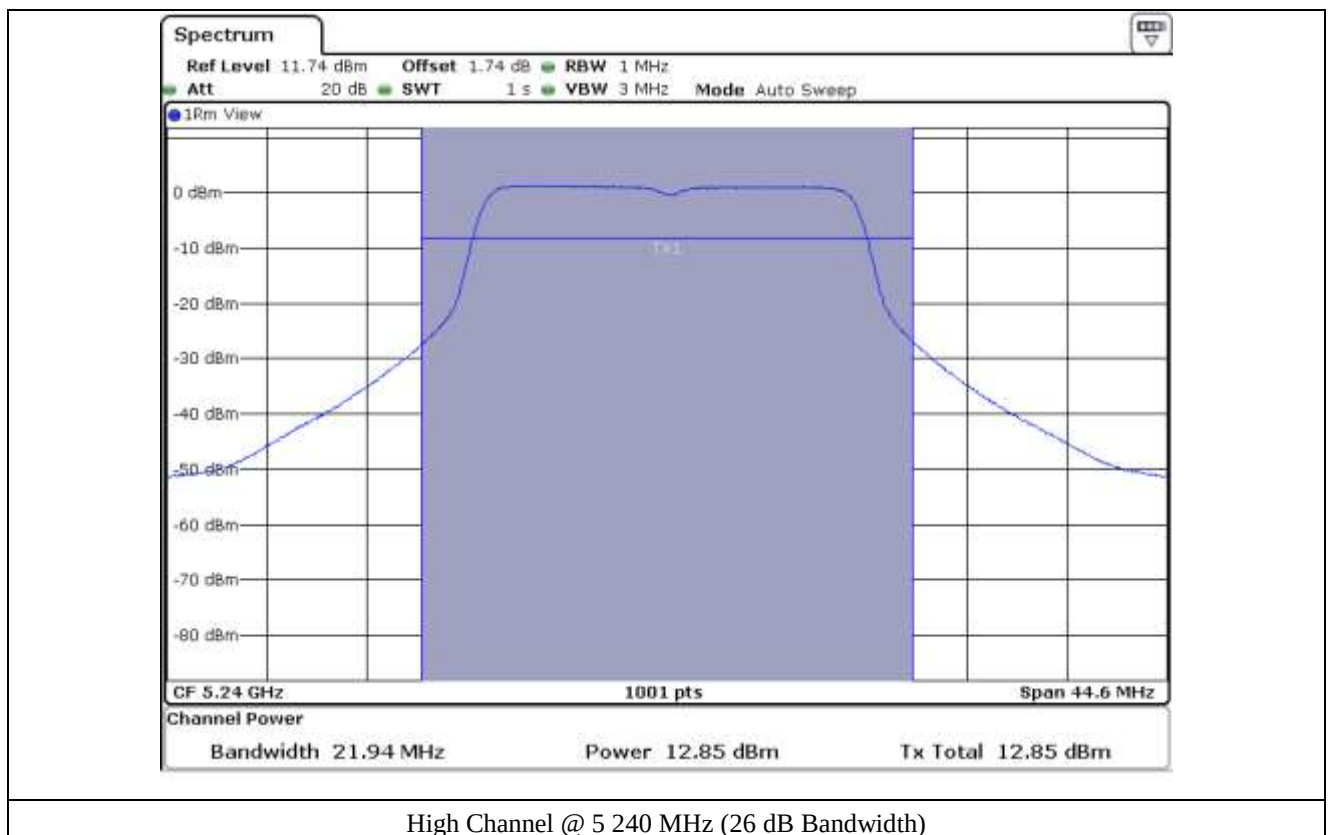
Tested by: Jun-Hui, Lee / Senior Engineer

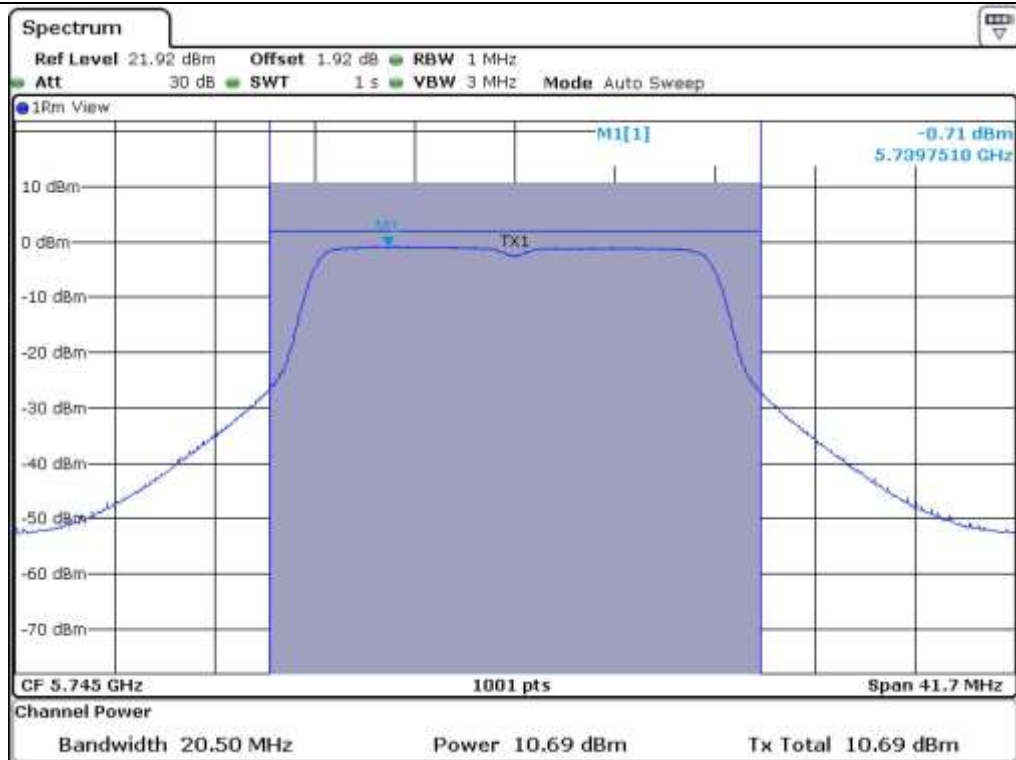


Low Channel @ 5 180 MHz (26 dB Bandwidth)

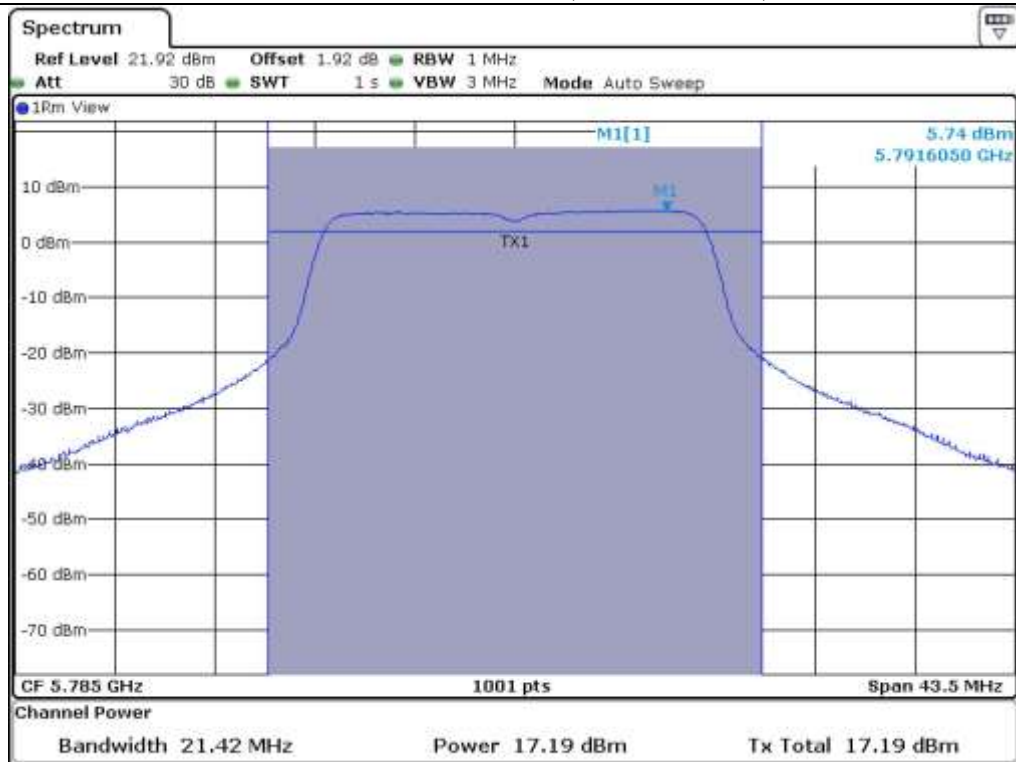


Middle Channel @ 5 200 MHz (26 dB Bandwidth)

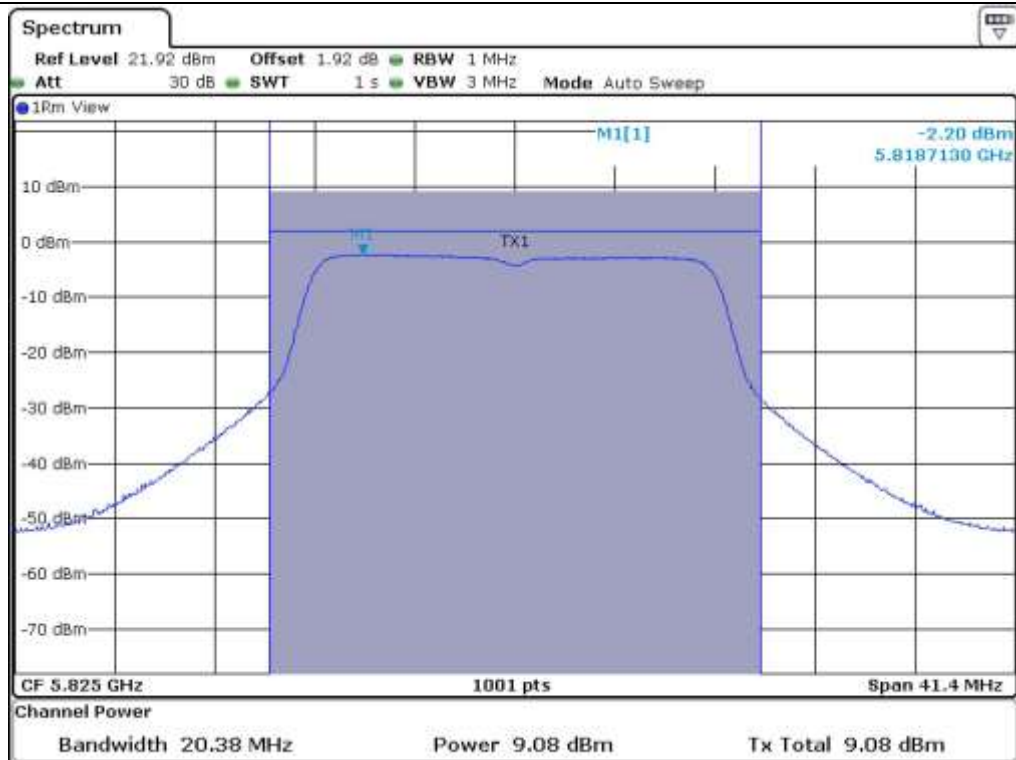




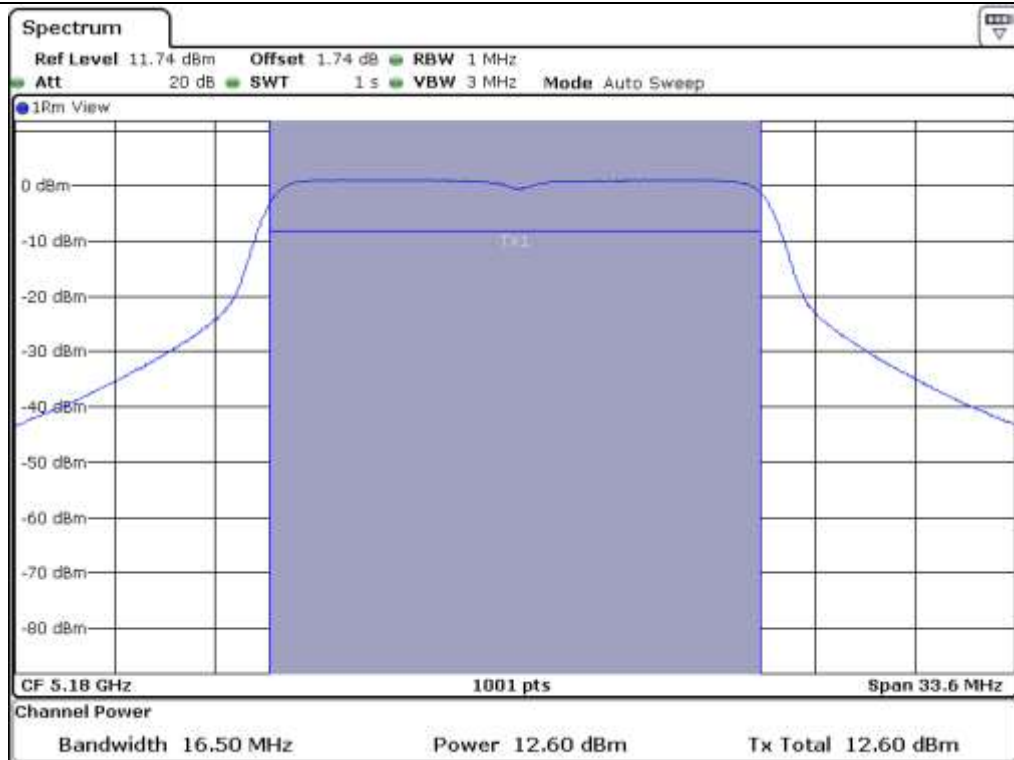
Low Channel @ 5.745 MHz (26 dB Bandwidth)



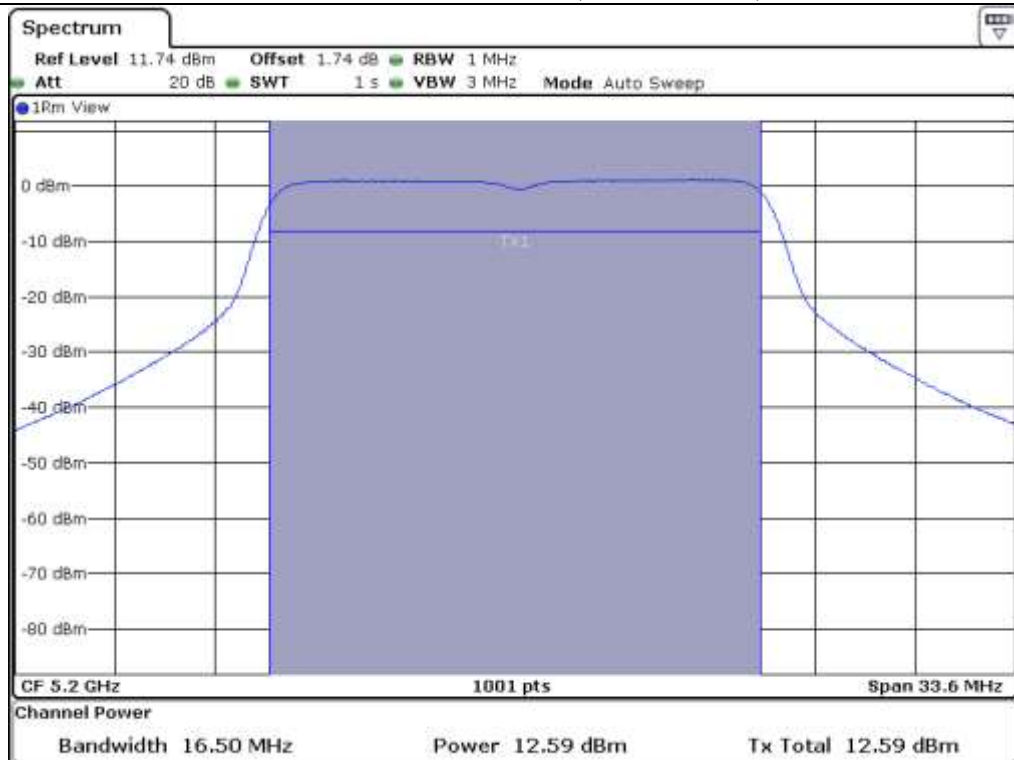
Middle Channel @ 5.785 MHz (26 dB Bandwidth)



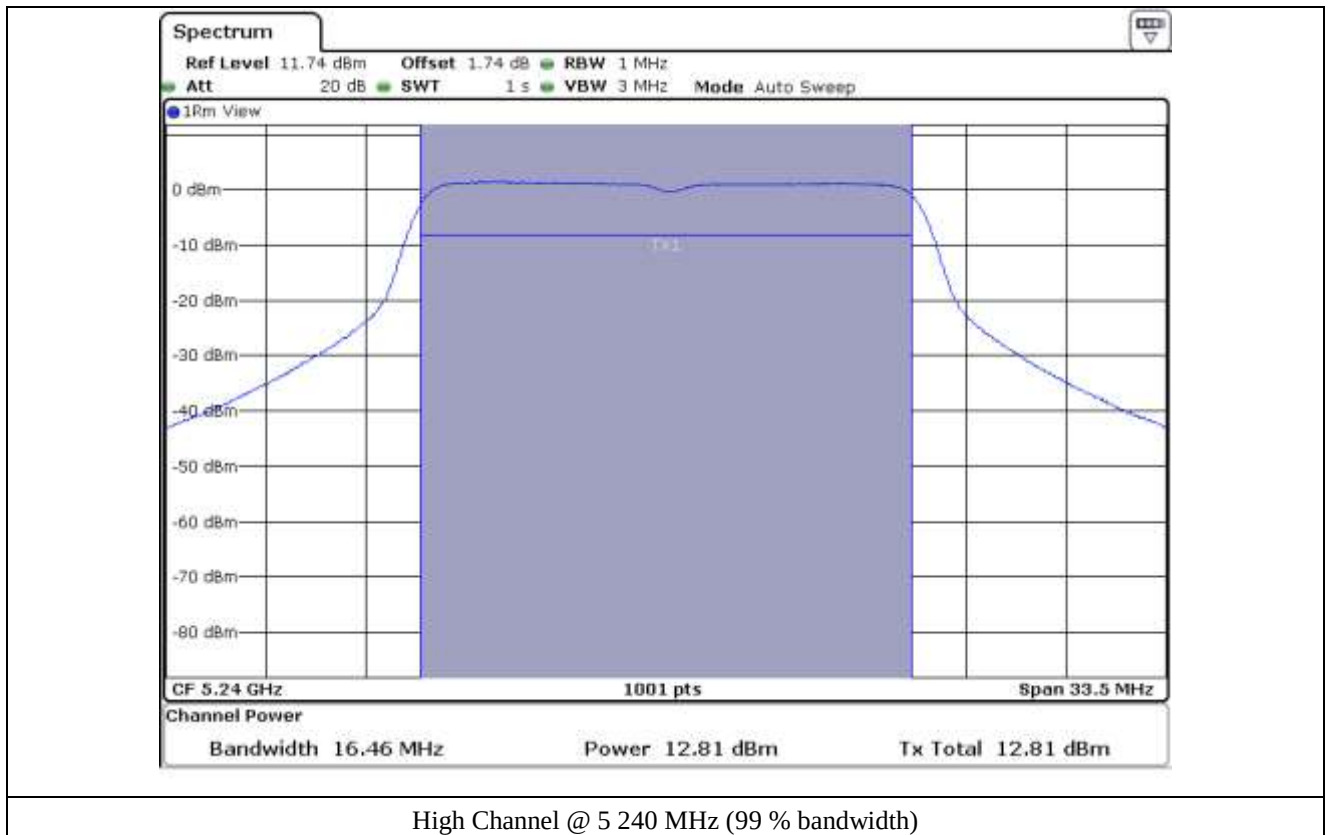
High Channel @ 5 825 MHz (26 dB Bandwidth)

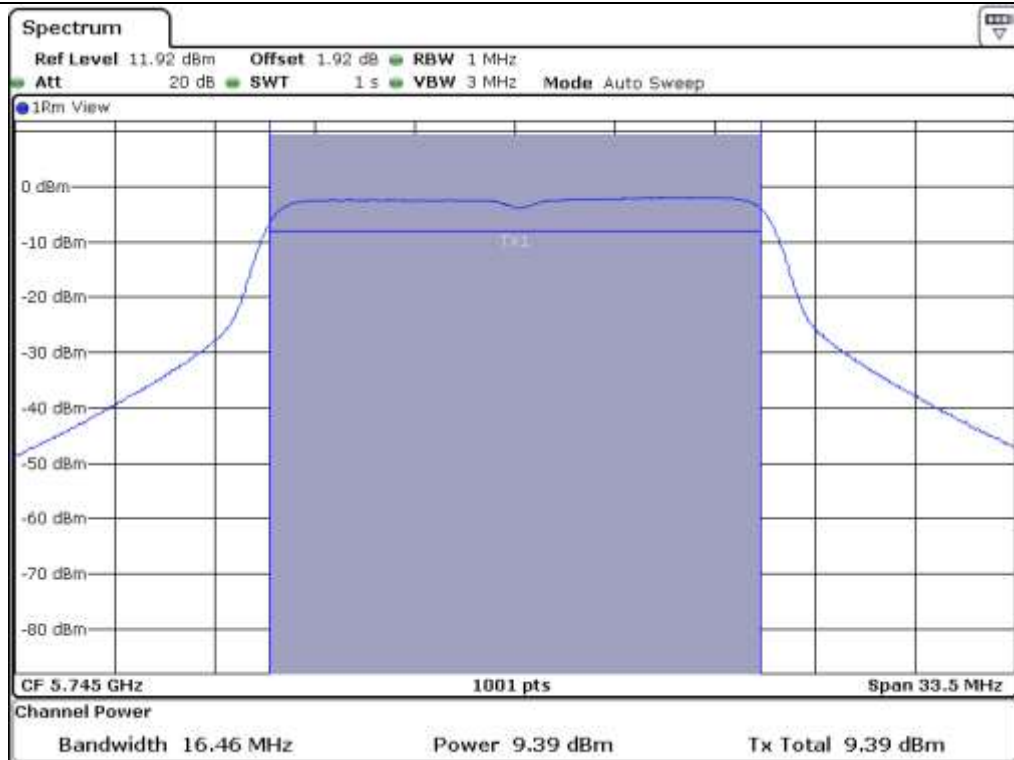


Low Channel @ 5 180 MHz (99 % bandwidth)

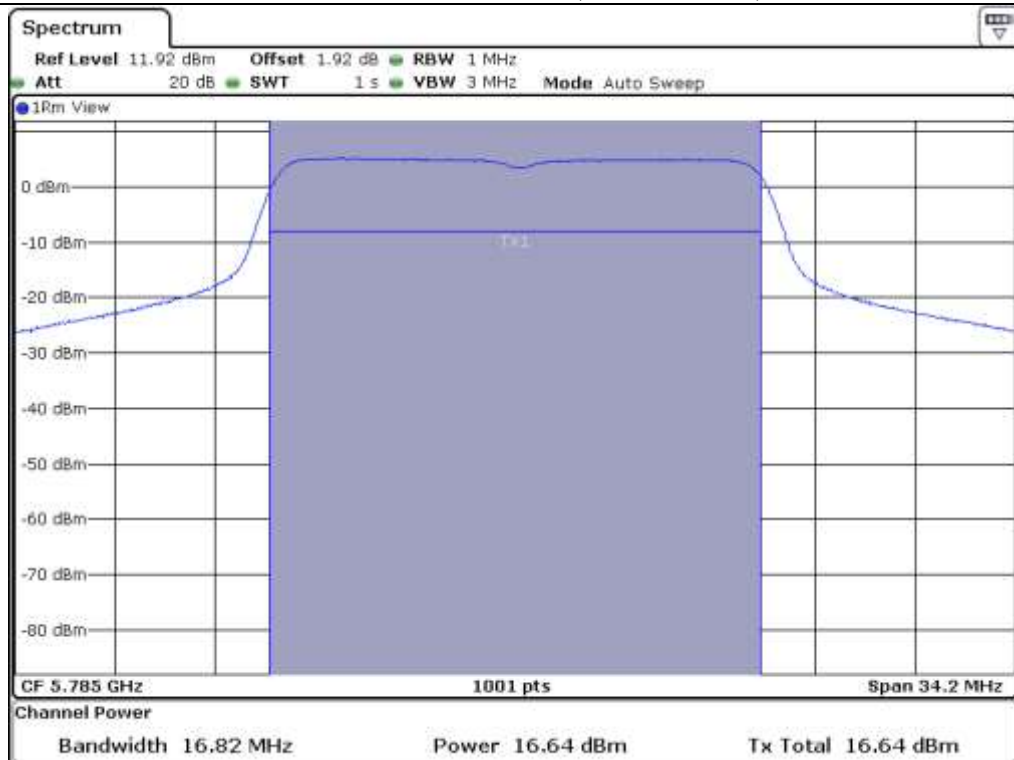


Middle Channel @ 5 200 MHz (99 % bandwidth)

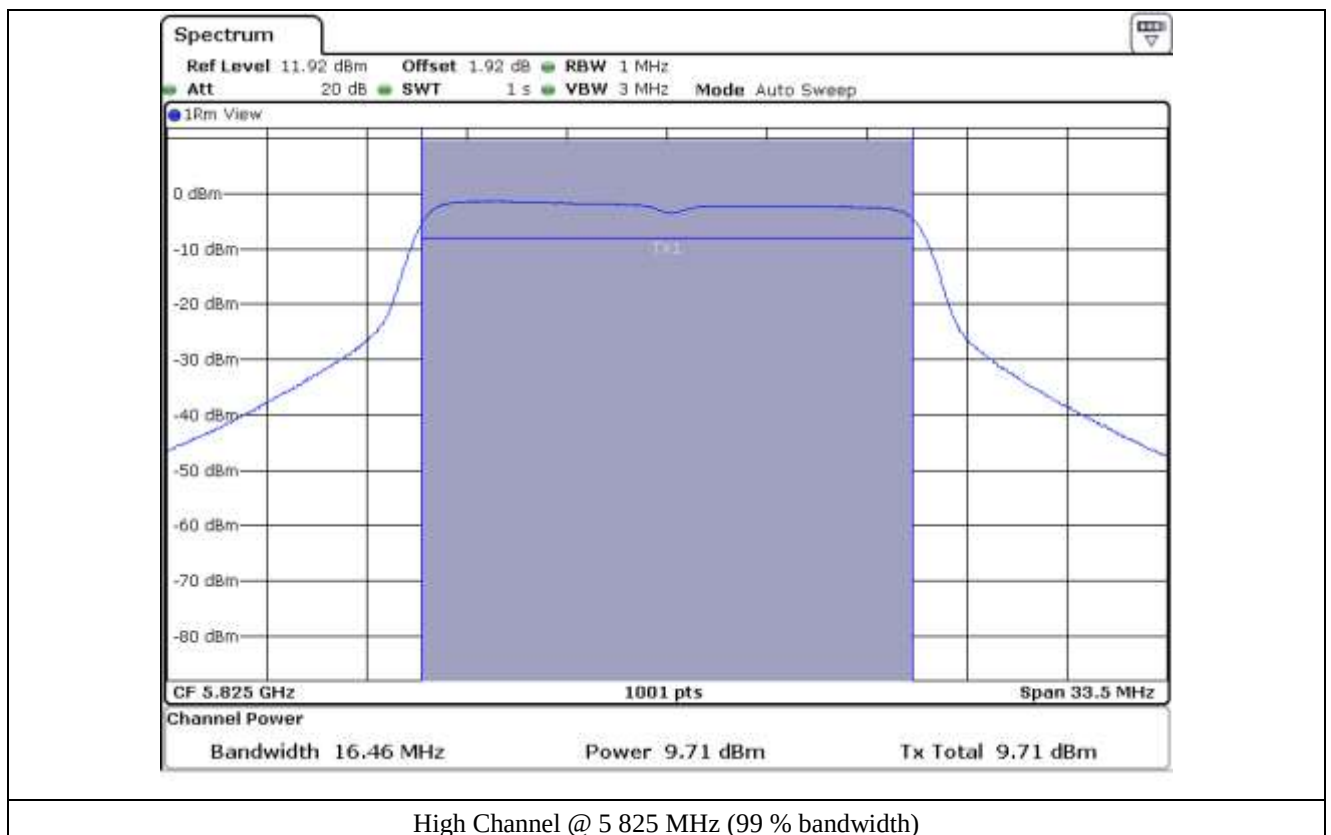




Low Channel @ 5.745 MHz (99 % bandwidth)



Middle Channel @ 5.785 MHz (99 % bandwidth)



8.4.3 Test data for Antenna 2

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	21.62	12.81	29.47	16.66
	Middle	5 200	21.58	12.66	29.47	16.81
	High	5 240	21.30	12.81	29.47	16.66
5 725 ~ 5 850	Low	5 745	20.98	10.98	29.59	18.61
	Middle	5 785	22.78	17.06	29.59	12.53
	High	5 825	20.74	9.72	29.59	19.87

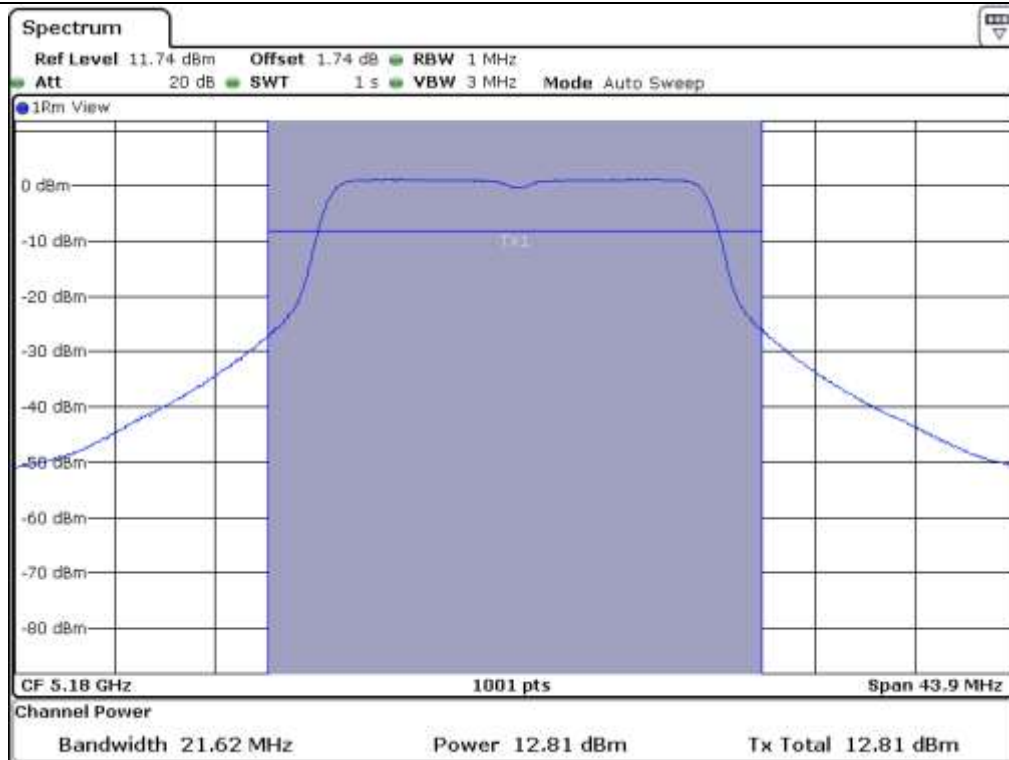
Remark: See next page for measurement data.

-. IC Test data

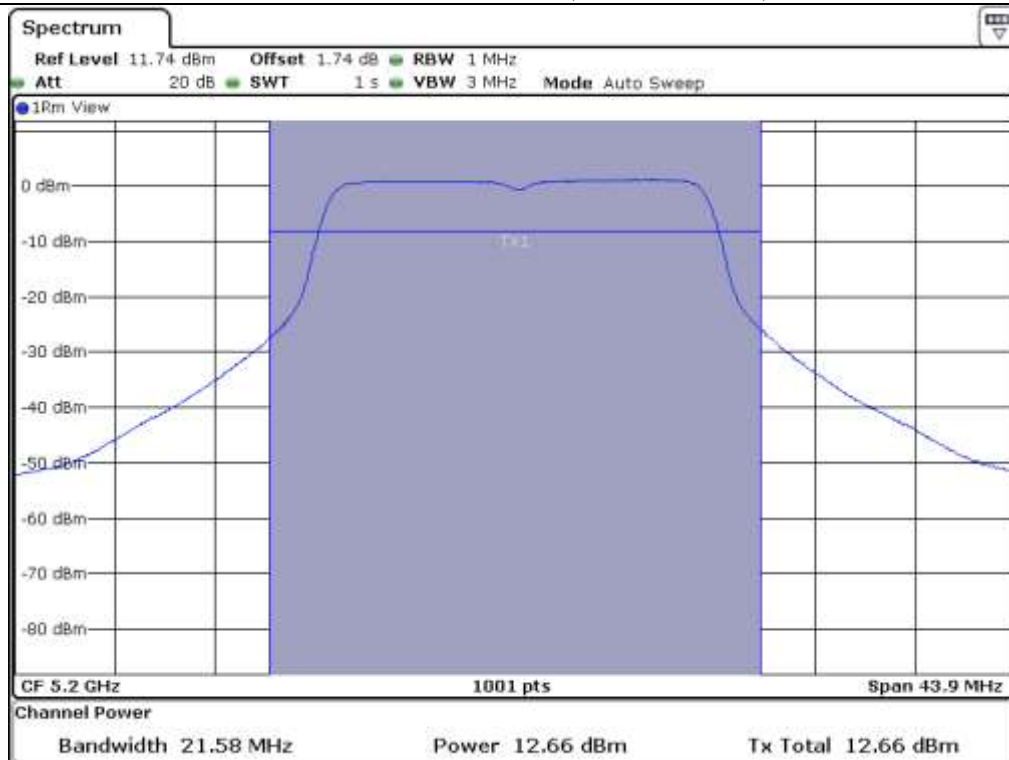
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.53	16.50	12.68	22.16	2.95	19.21
	Middle	5 200		16.46	12.63	22.16	3.00	19.16
	High	5 240		16.46	12.74	22.16	2.89	19.27
5 725 ~ 5 825	Low	5 745	6.42	16.46	10.01	29.59	19.58	-
	Middle	5 785		16.50	15.97	29.59	13.62	-
	High	5 825		16.46	10.10	29.59	19.49	-

Remark: See next page for measurement data.

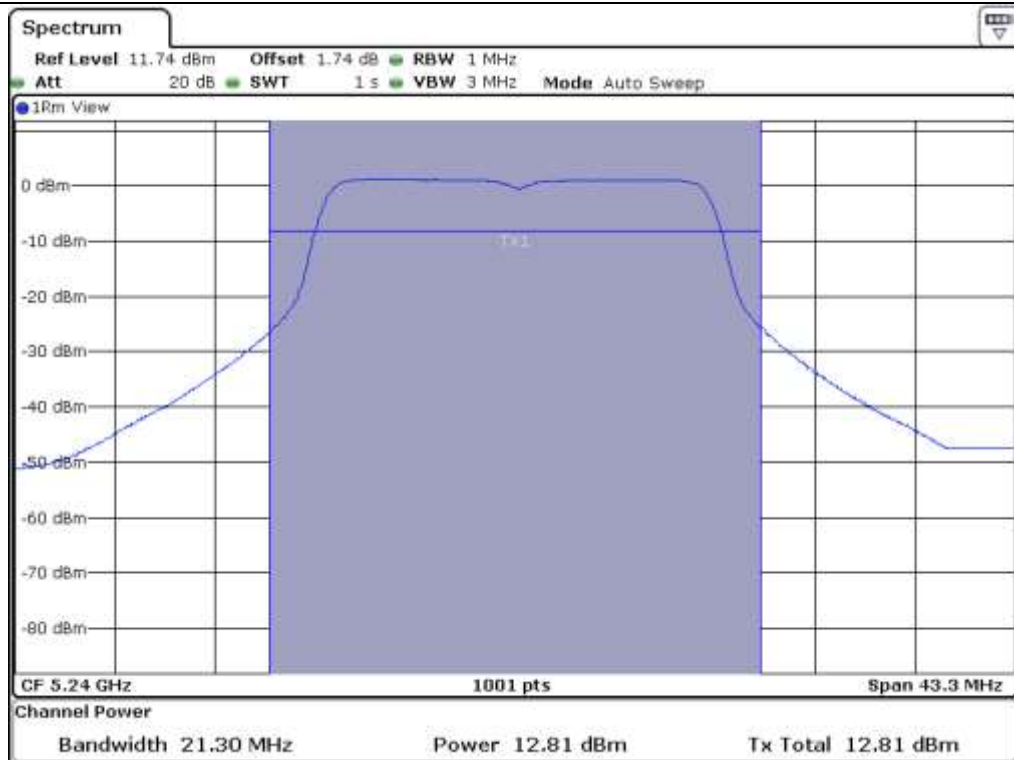

 Tested by: Jun-Hui, Lee / Senior Engineer



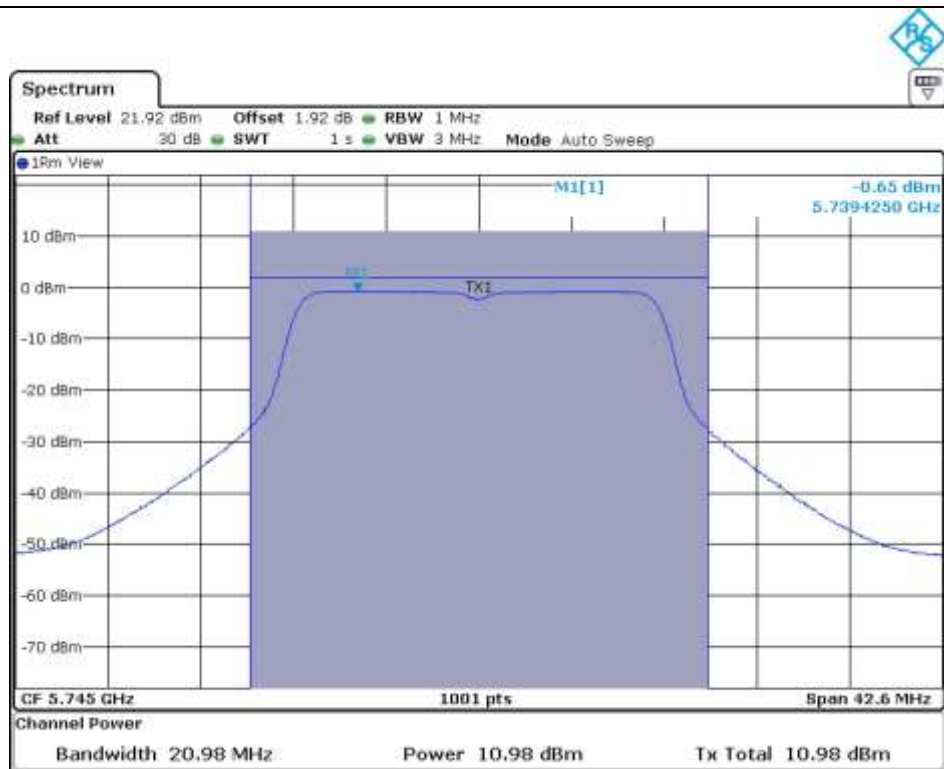
Low Channel @ 5 180 MHz (26 dB Bandwidth)



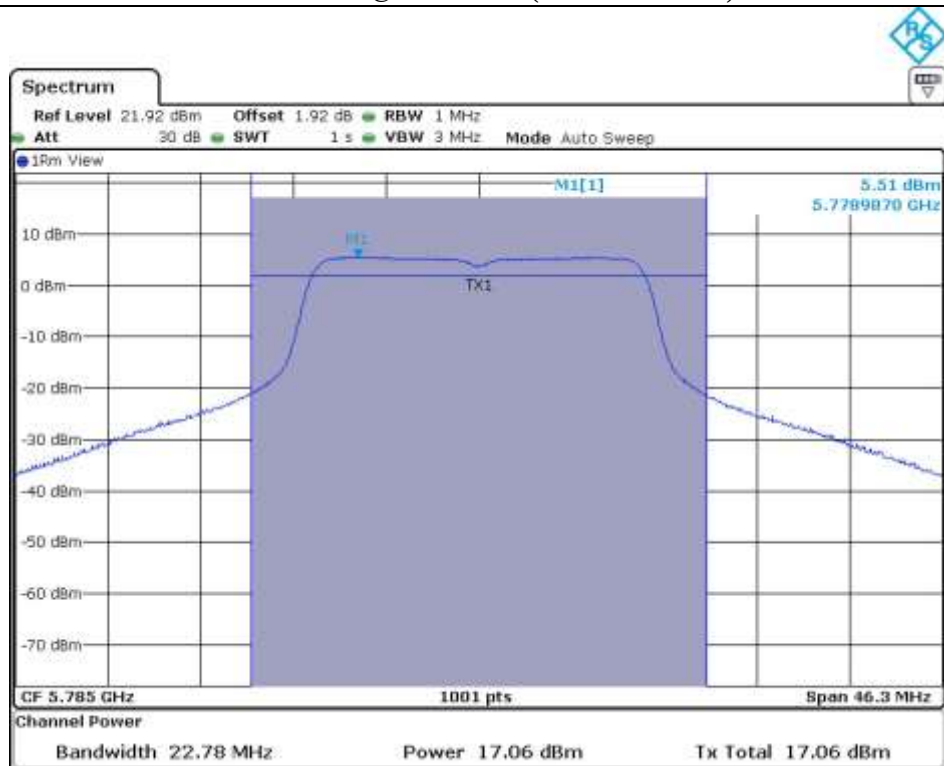
Middle Channel @ 5 200 MHz (26 dB Bandwidth)



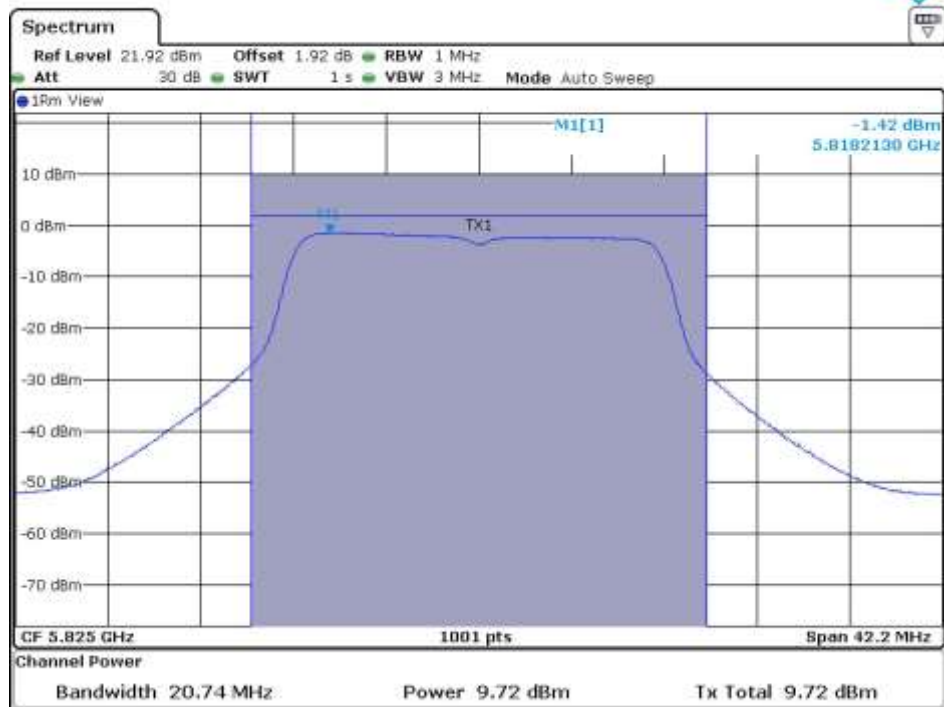
High Channel @ 5 240 MHz (26 dB Bandwidth)



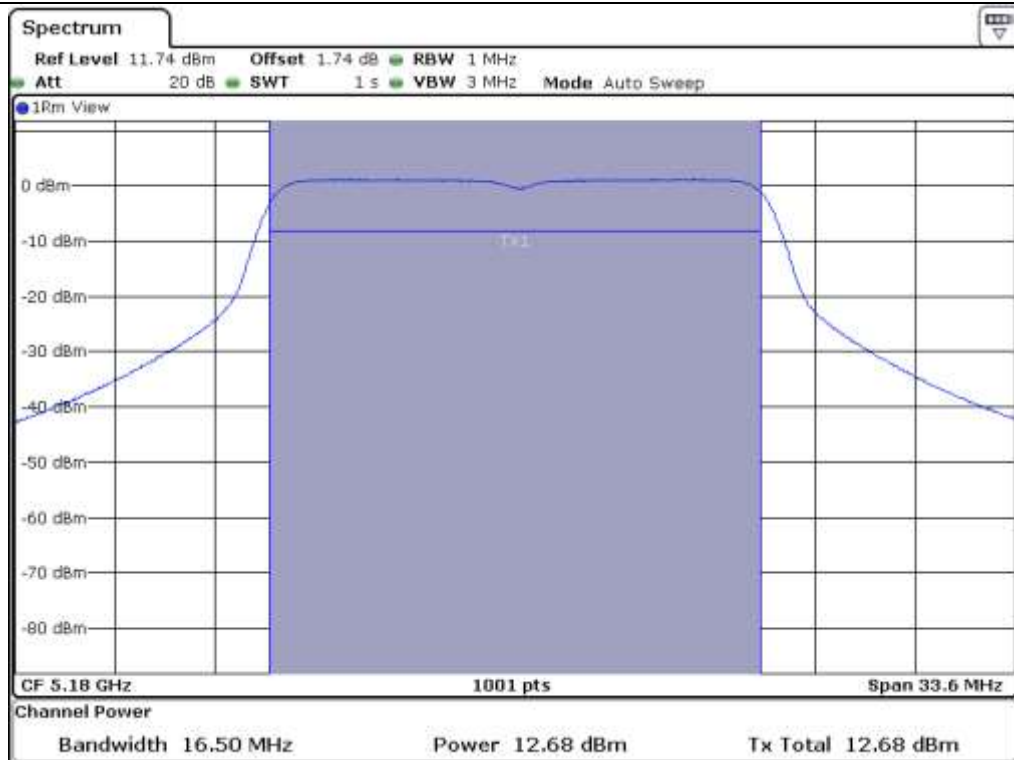
Low Channel @ 5 745 MHz (26 dB Bandwidth)



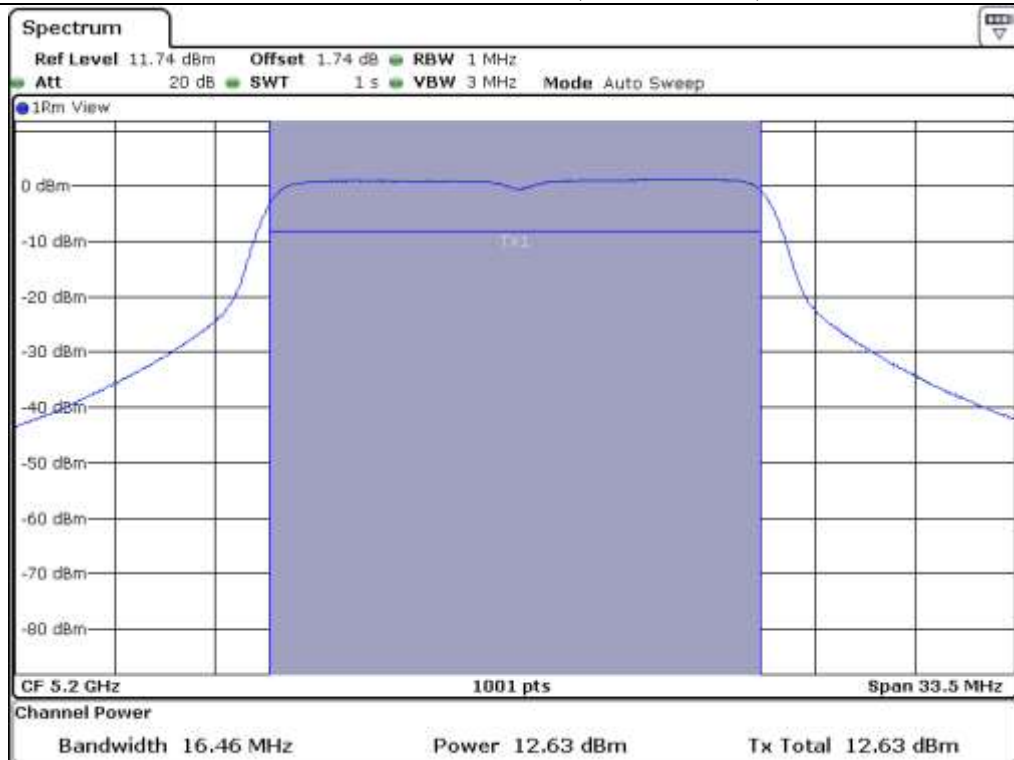
Middle Channel @ 5 785 MHz (26 dB Bandwidth)



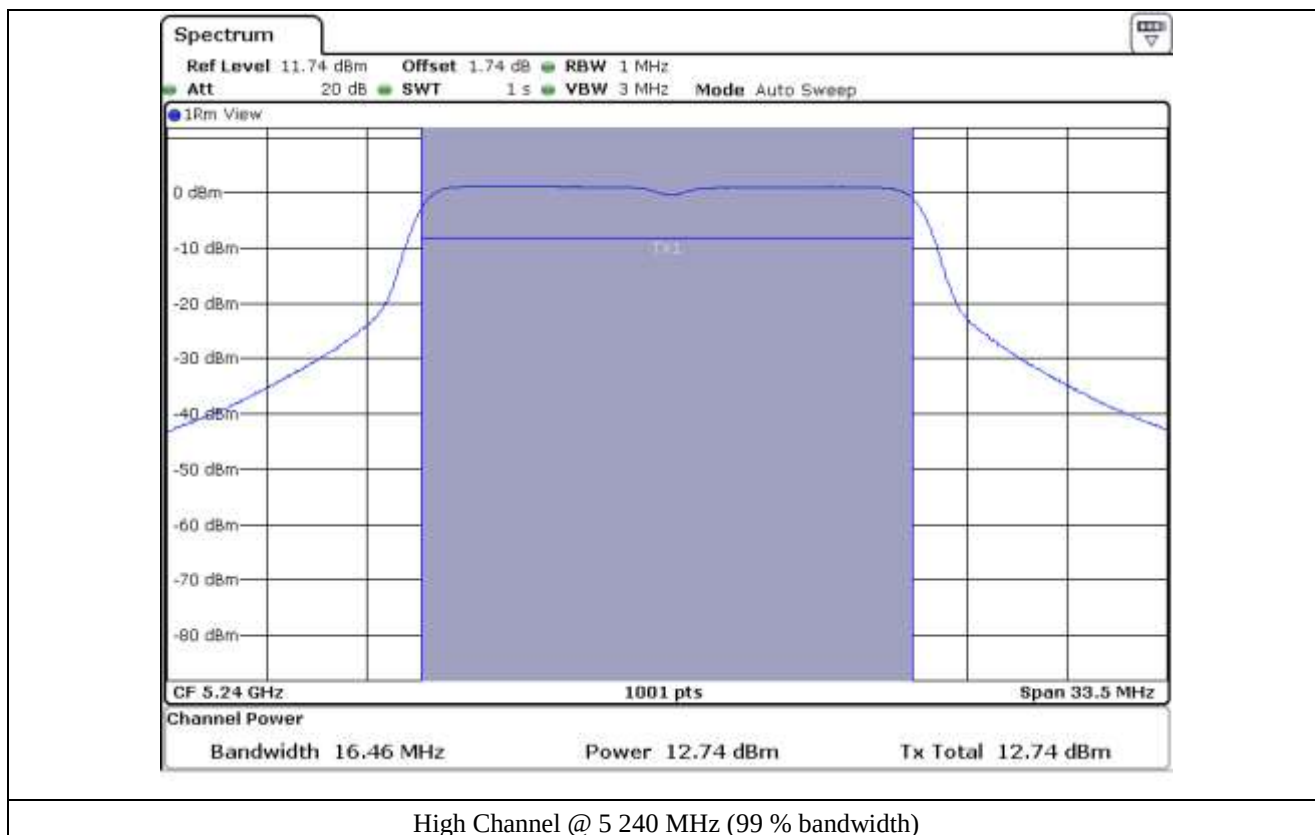
High Channel @ 5 825 MHz (26 dB Bandwidth)

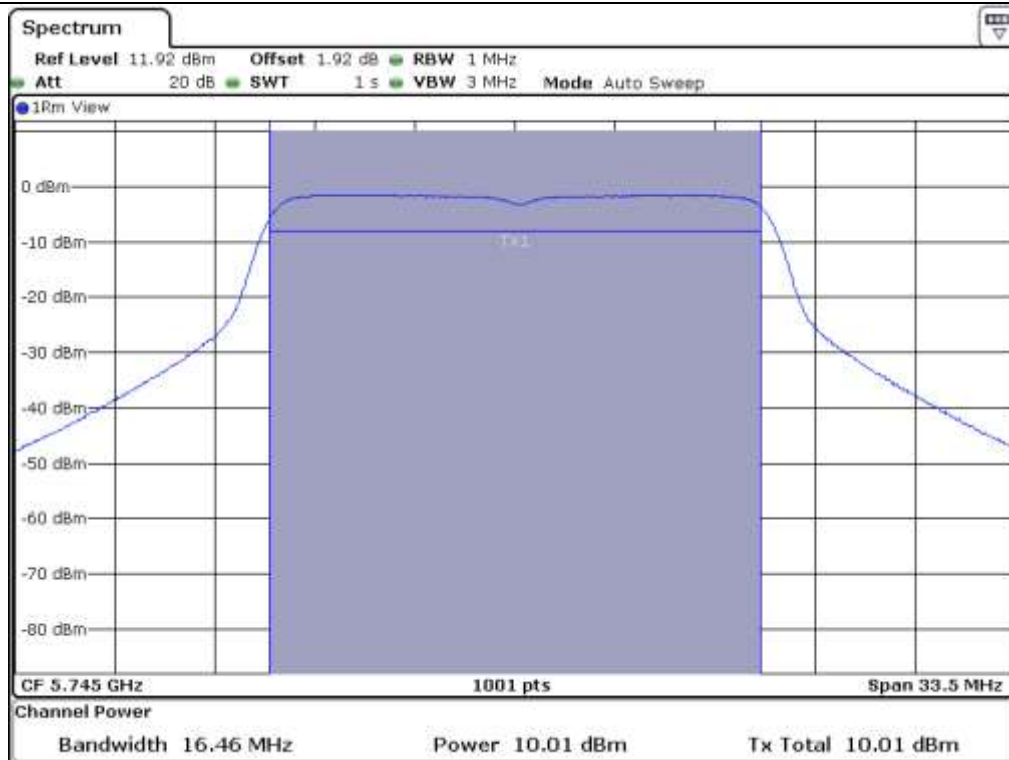


Low Channel @ 5 180 MHz (99 % bandwidth)

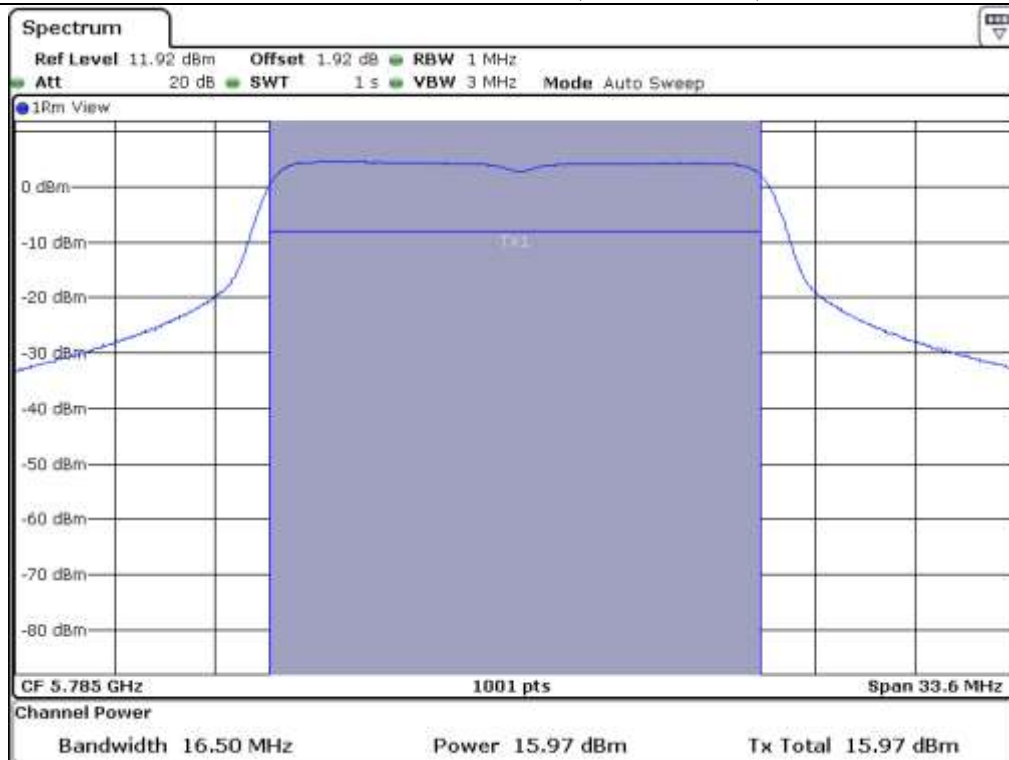


Middle Channel @ 5 200 MHz (99 % bandwidth)

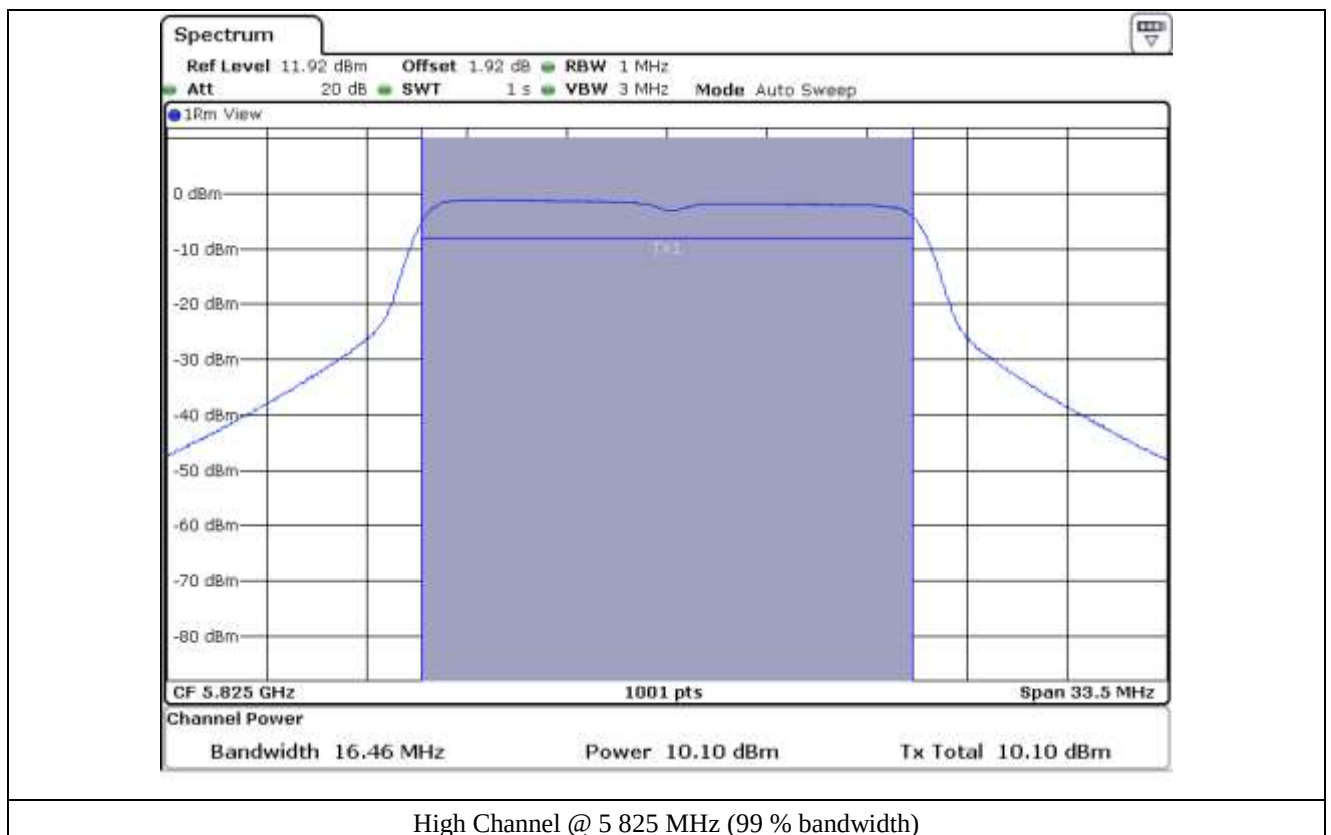




Low Channel @ 5.745 MHz (99 % bandwidth)



Middle Channel @ 5.785 MHz (99 % bandwidth)



8.5 Test data for 802.11n_HT20 RLAN Mode

8.5.1 Test data for Antenna 0

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	21.58	9.16	29.47	20.31
	Middle	5 200	21.66	9.09	29.47	20.38
	High	5 240	21.98	8.86	29.47	20.61
5 725 ~ 5 850	Low	5 745	20.86	8.17	29.59	21.42
	Middle	5 785	21.98	16.26	29.59	13.33
	High	5 825	21.02	7.55	29.59	22.04

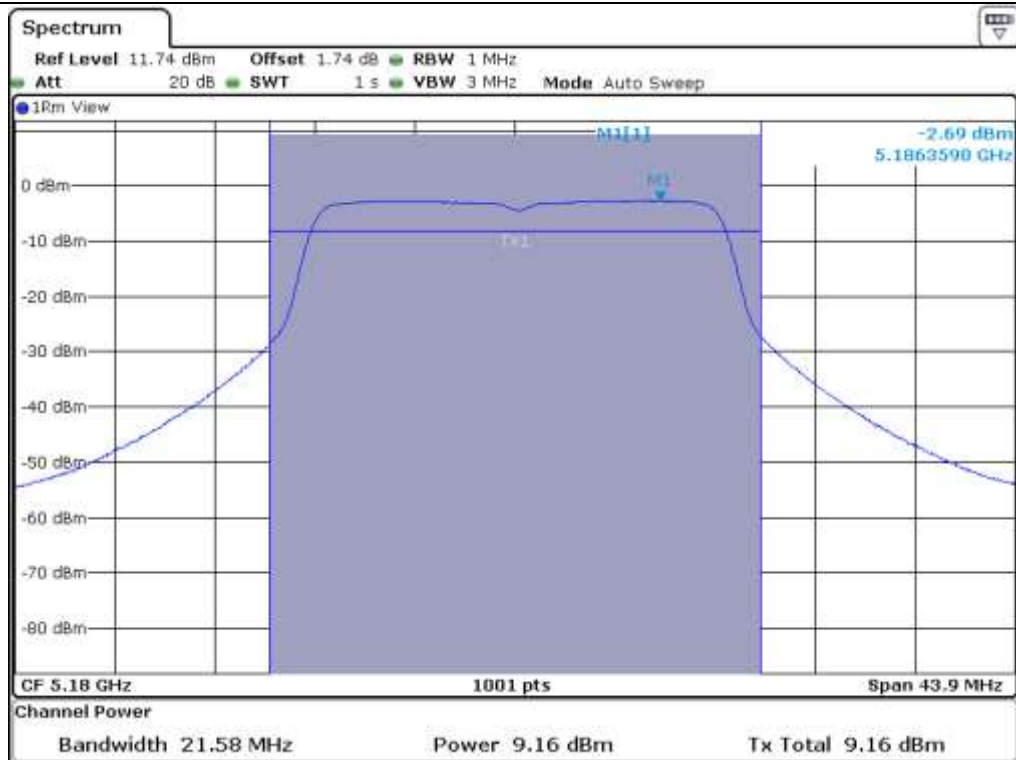
Remark: See next page for measurement data.

-. IC Test data

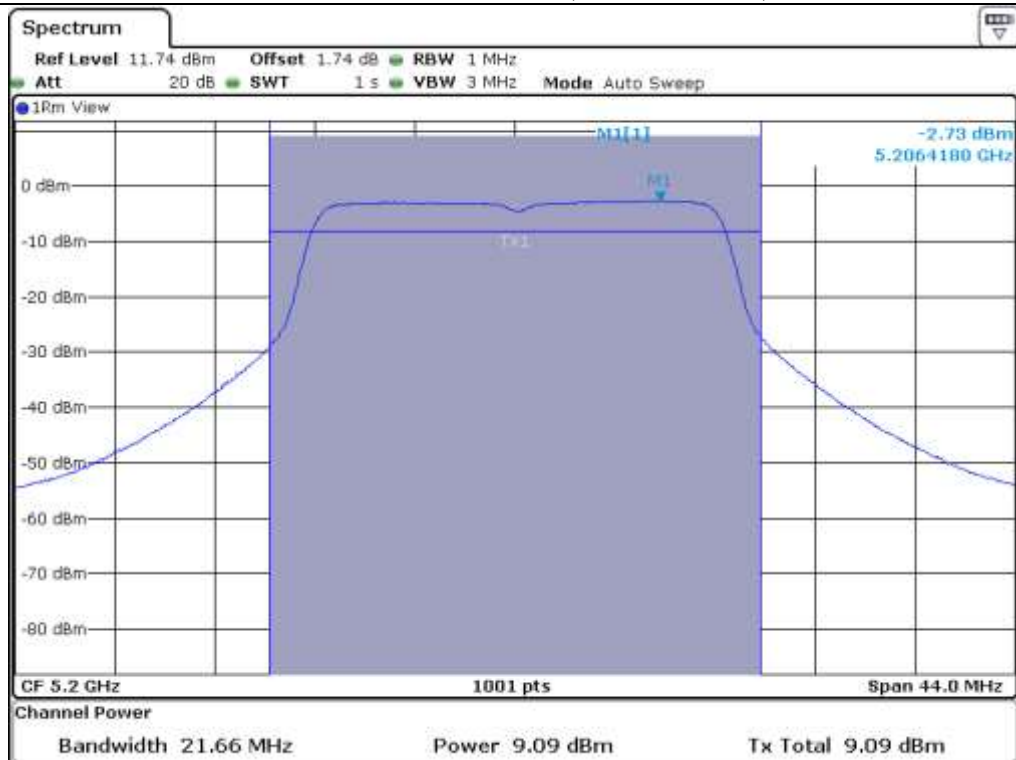
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.53	17.66	5.72	22.47	10.22	12.25
	Middle	5 200		17.66	5.70	22.47	10.24	12.23
	High	5 240		17.66	5.58	22.47	10.36	12.11
5 725 ~ 5 825	Low	5 745	6.42	17.66	8.12	29.58	21.46	-
	Middle	5 785		17.70	16.16	29.58	13.42	-
	High	5 825		17.66	8.76	29.58	20.82	-

Remark: See next page for measurement data.

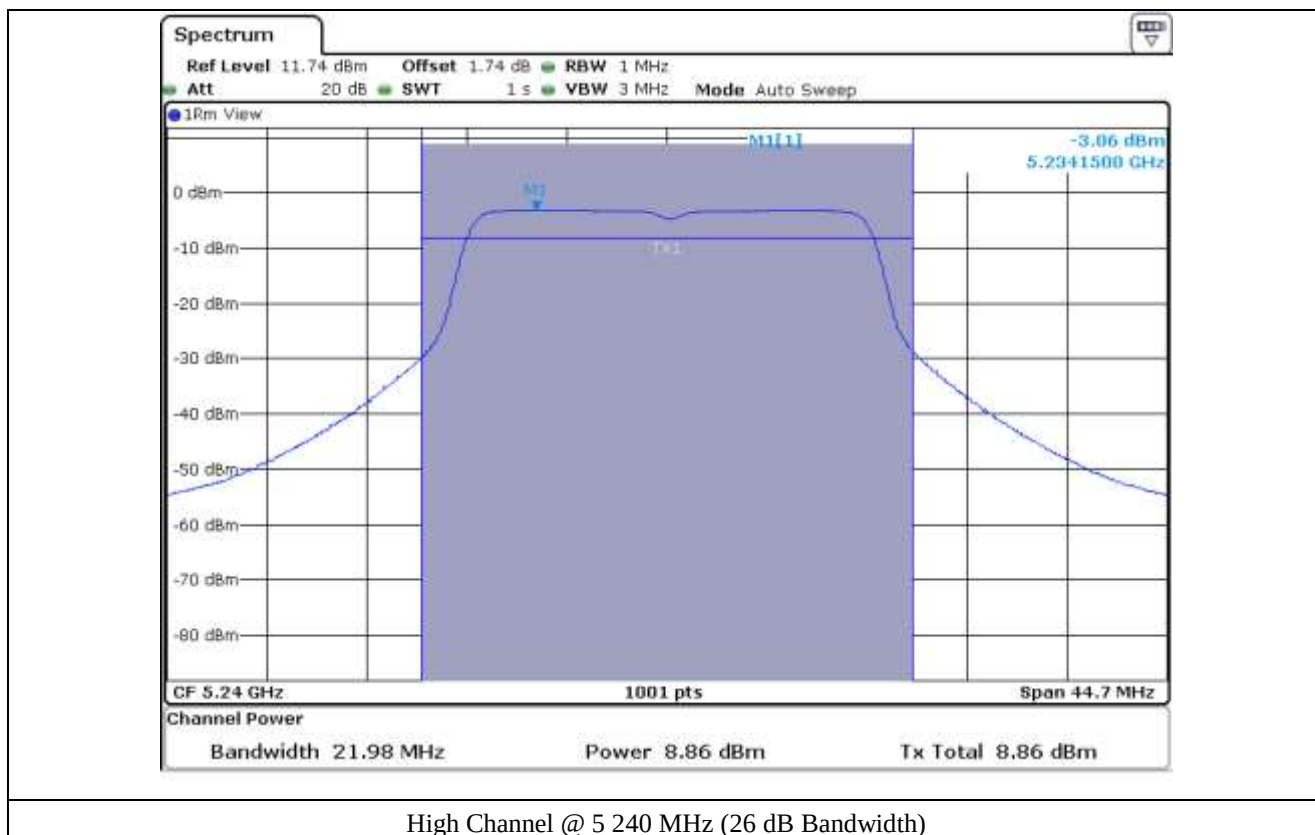

Tested by: Jun-Hui, Lee / Senior Engineer

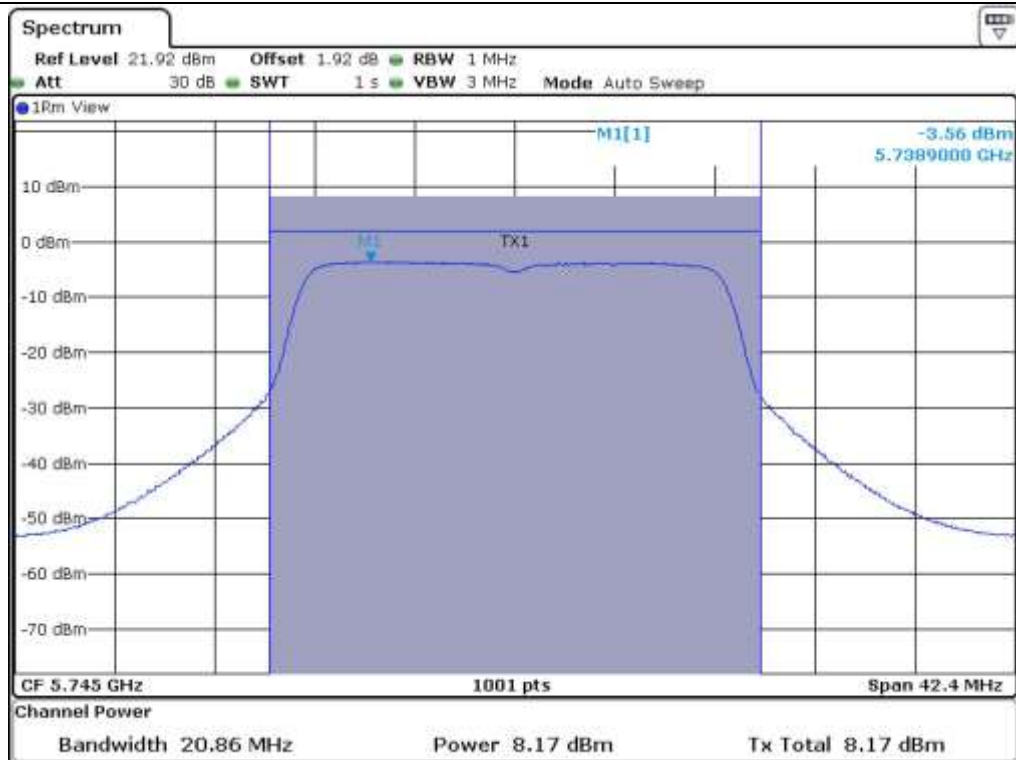


Low Channel @ 5 180 MHz (26 dB Bandwidth)

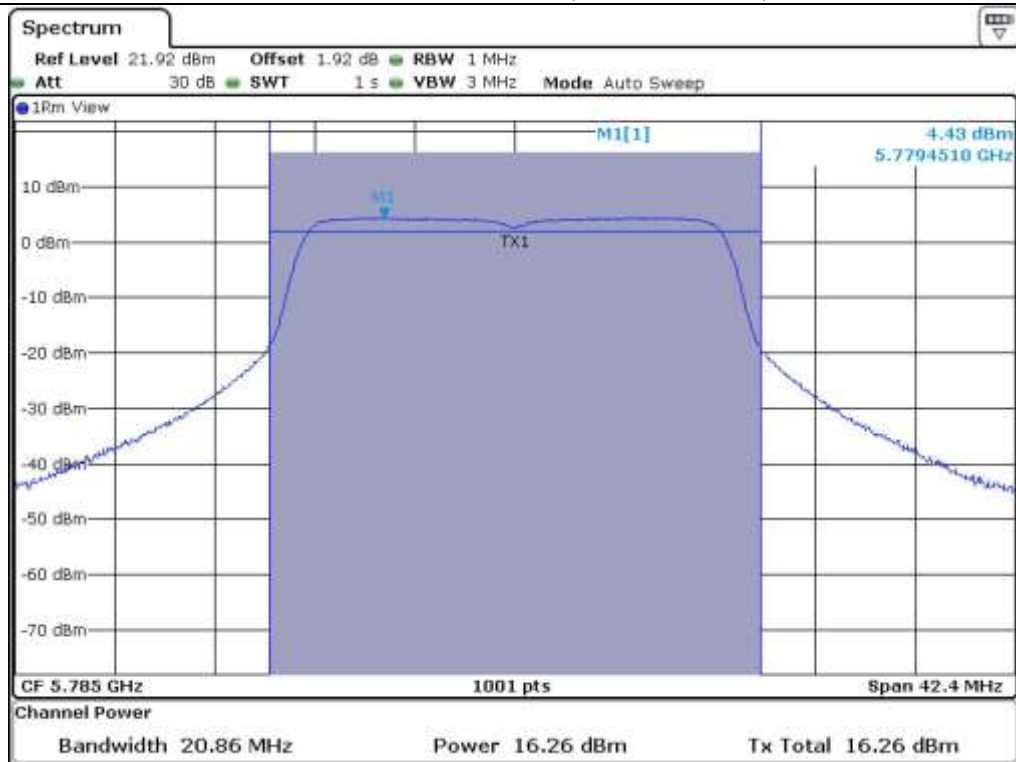


Middle Channel @ 5 200 MHz (26 dB Bandwidth)

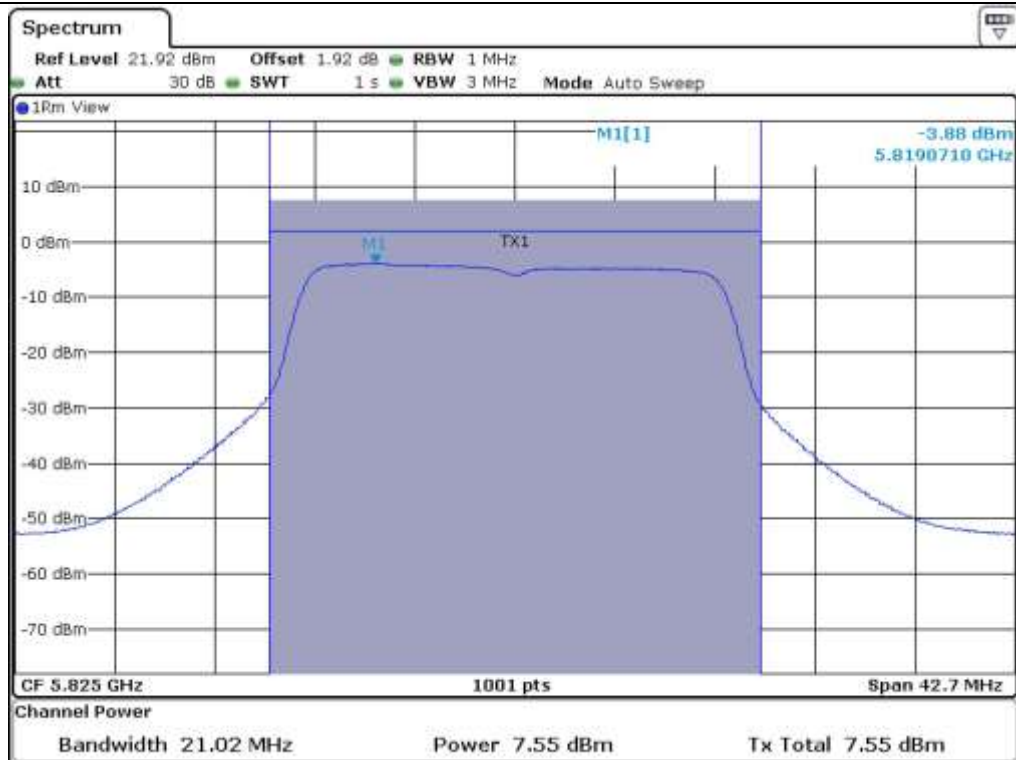




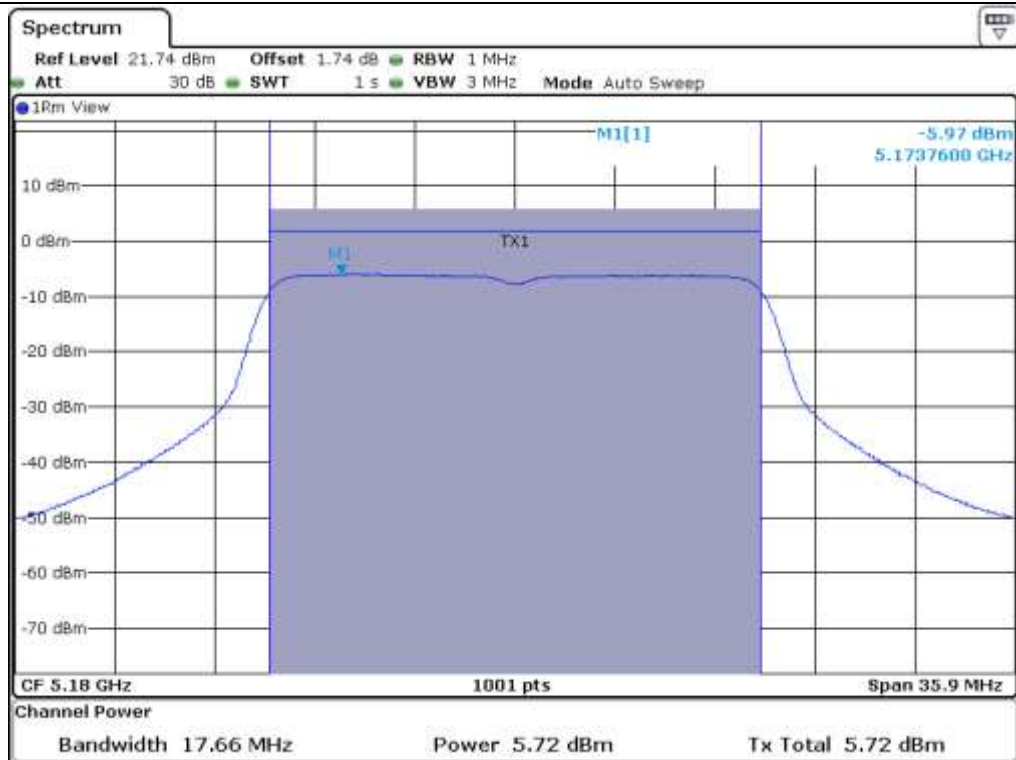
Low Channel @ 5.745 MHz (26 dB Bandwidth)



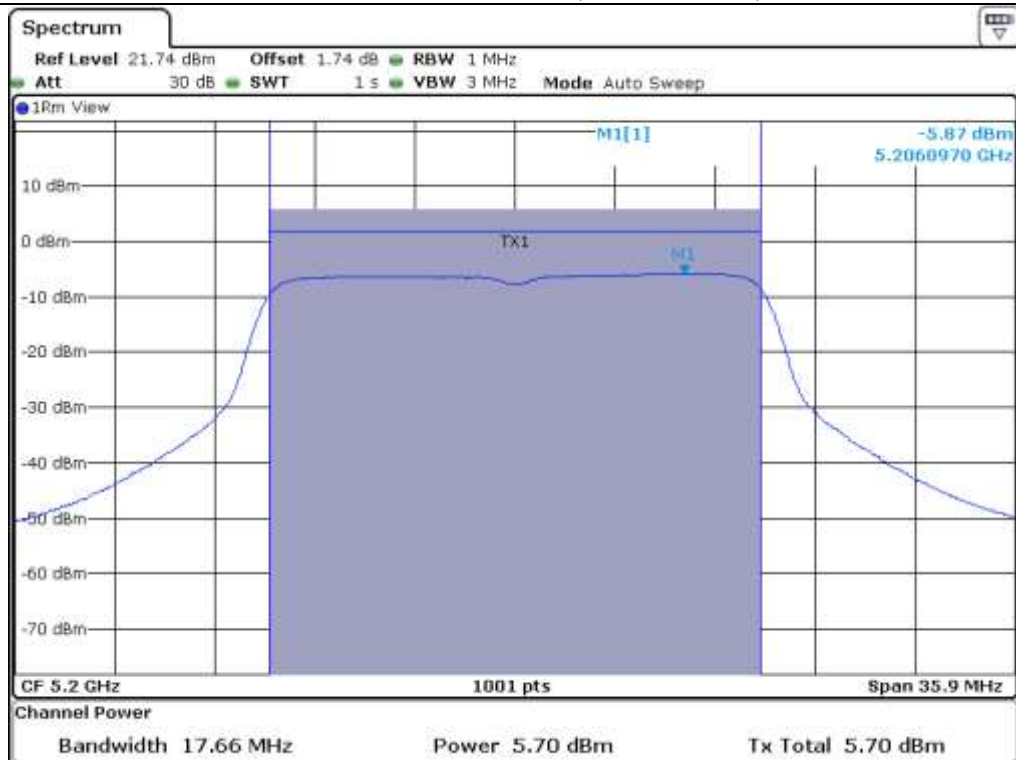
Middle Channel @ 5.785 MHz (26 dB Bandwidth)



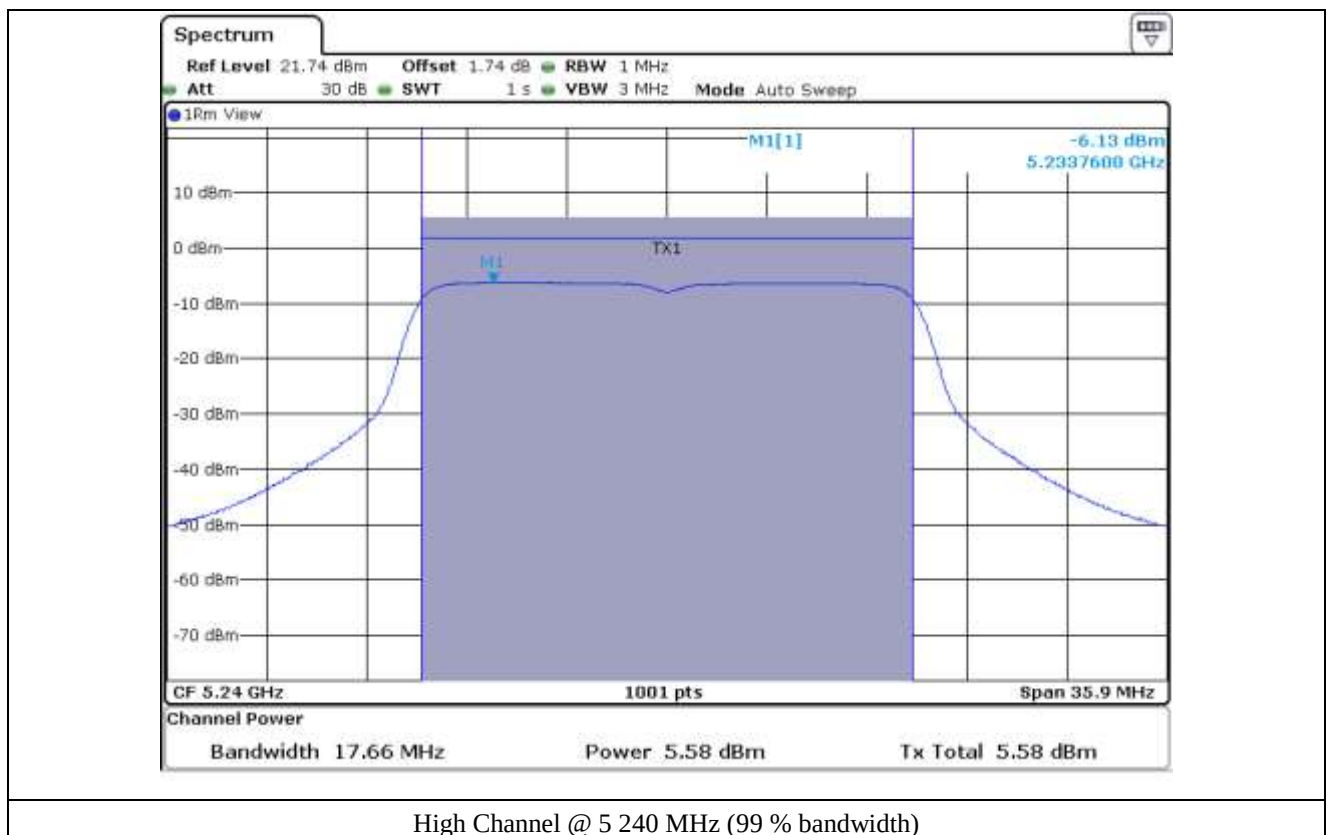
High Channel @ 5 825 MHz (26 dB Bandwidth)

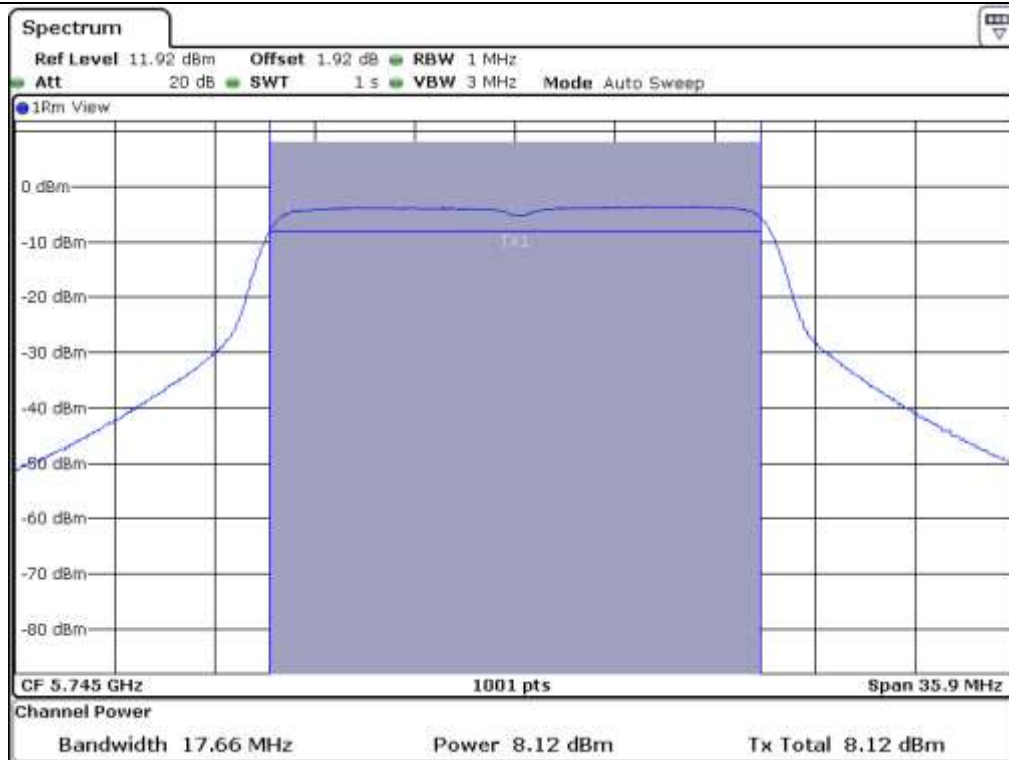


Low Channel @ 5 180 MHz (99 % bandwidth)

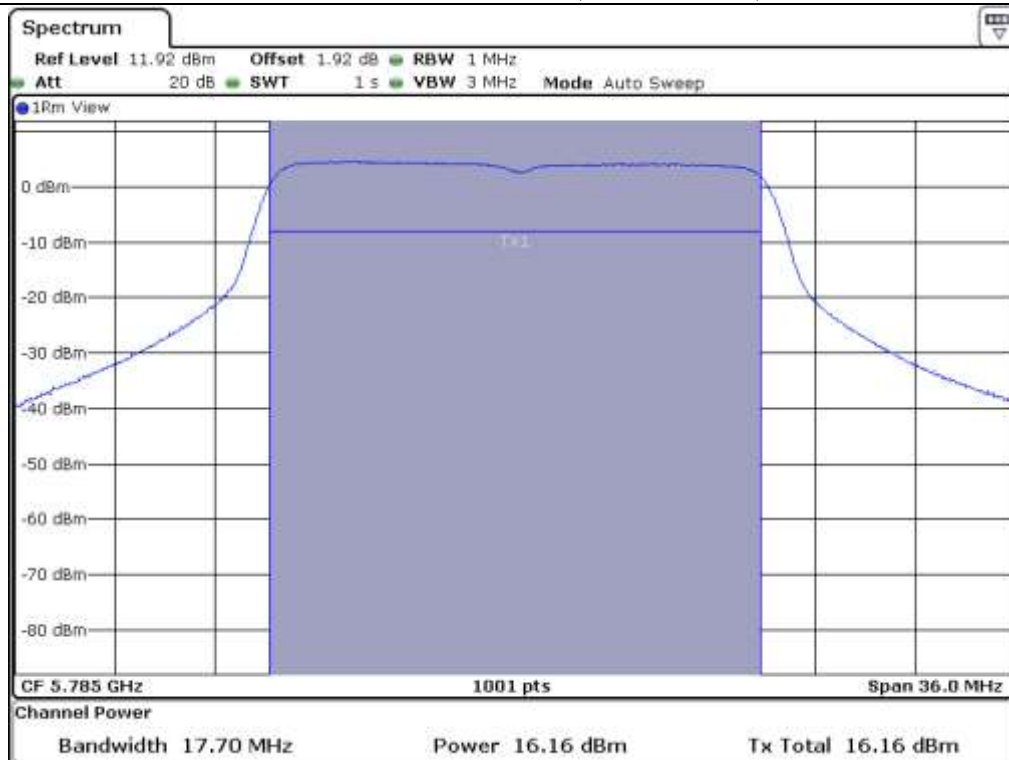


Middle Channel @ 5 200 MHz (99 % bandwidth)

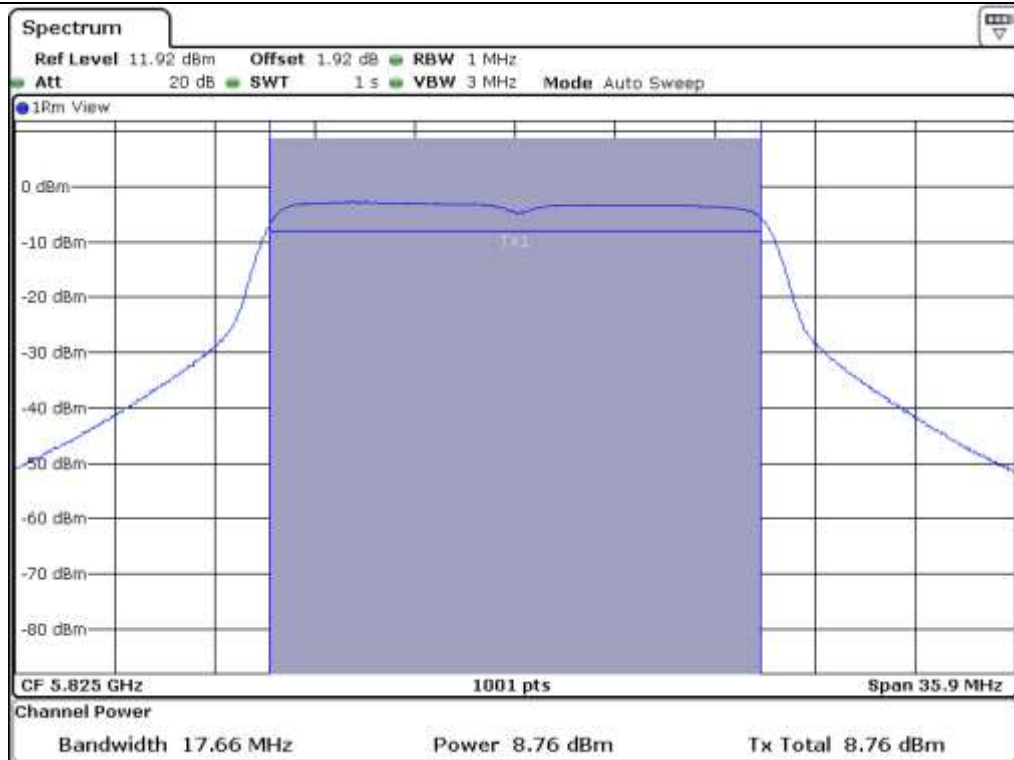




Low Channel @ 5.745 MHz (99 % bandwidth)



Middle Channel @ 5.785 MHz (99 % bandwidth)



High Channel @ 5 825 MHz (99 % bandwidth)

8.5.2 Test data for Antenna 1

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	21.74	8.46	29.47	21.01
	Middle	5 200	21.98	8.47	29.47	21.00
	High	5 240	21.62	8.71	29.47	20.76
5 725 ~ 5 850	Low	5 745	21.30	8.65	29.59	20.94
	Middle	5 785	21.62	16.55	29.59	13.04
	High	5 825	21.18	7.14	29.59	22.45

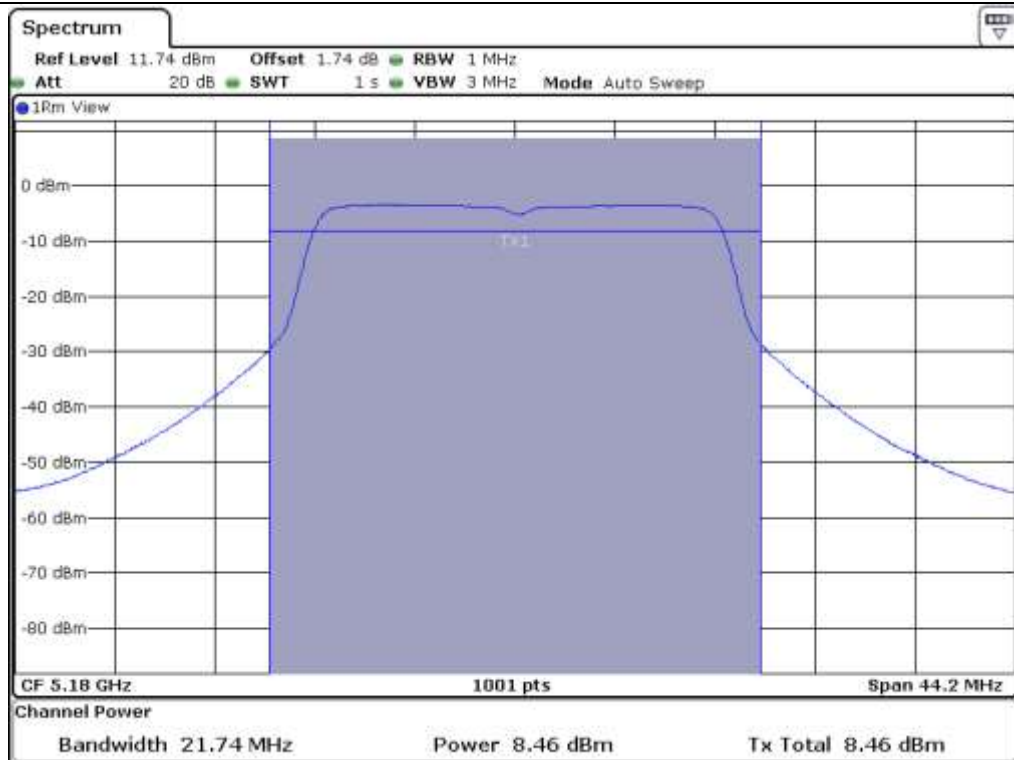
Remark: See next page for measurement data.

-. IC Test data

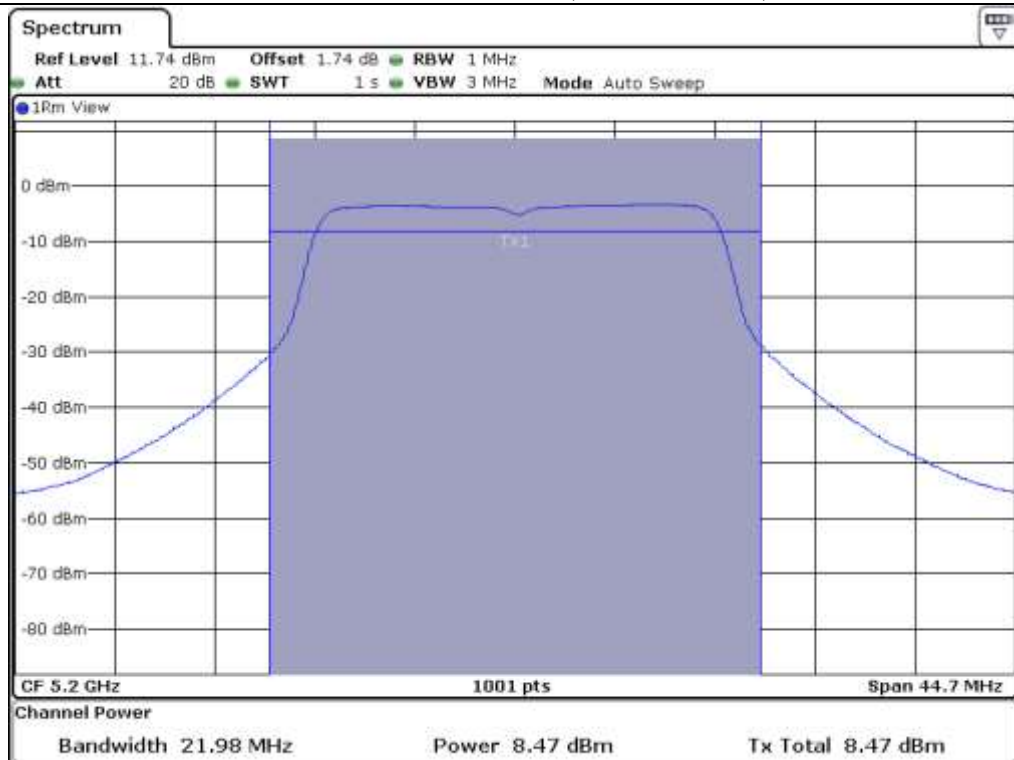
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.53	17.70	5.72	22.47	10.22	12.25
	Middle	5 200		17.70	5.58	22.47	10.36	12.11
	High	5 240		17.66	5.99	22.47	9.95	12.52
5 725 ~ 5 825	Low	5 745	6.42	17.66	7.32	29.58	22.26	-
	Middle	5 785		17.78	15.76	29.58	13.82	-
	High	5 825		17.66	7.71	29.58	21.87	-

Remark: See next page for measurement data.

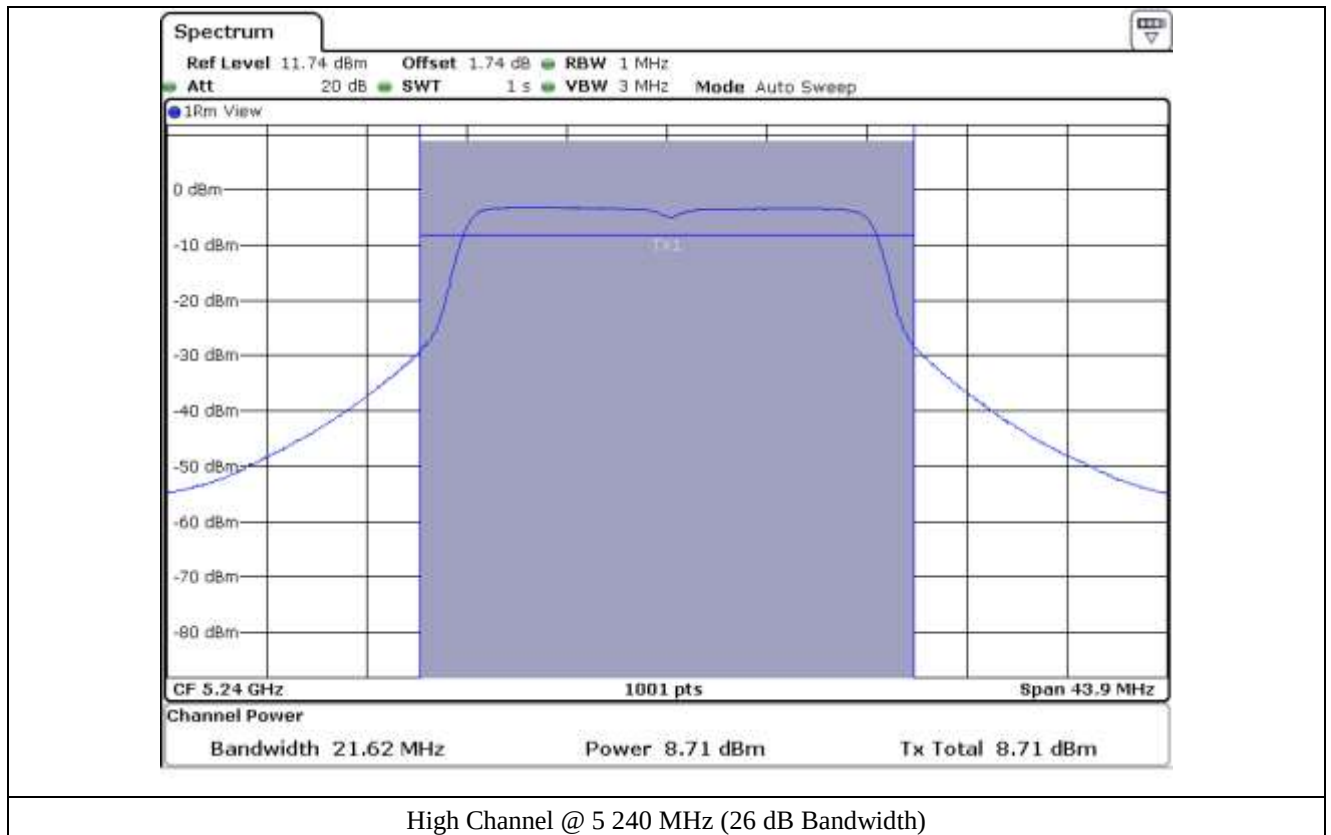

 Tested by: Jun-Hui, Lee / Senior Engineer

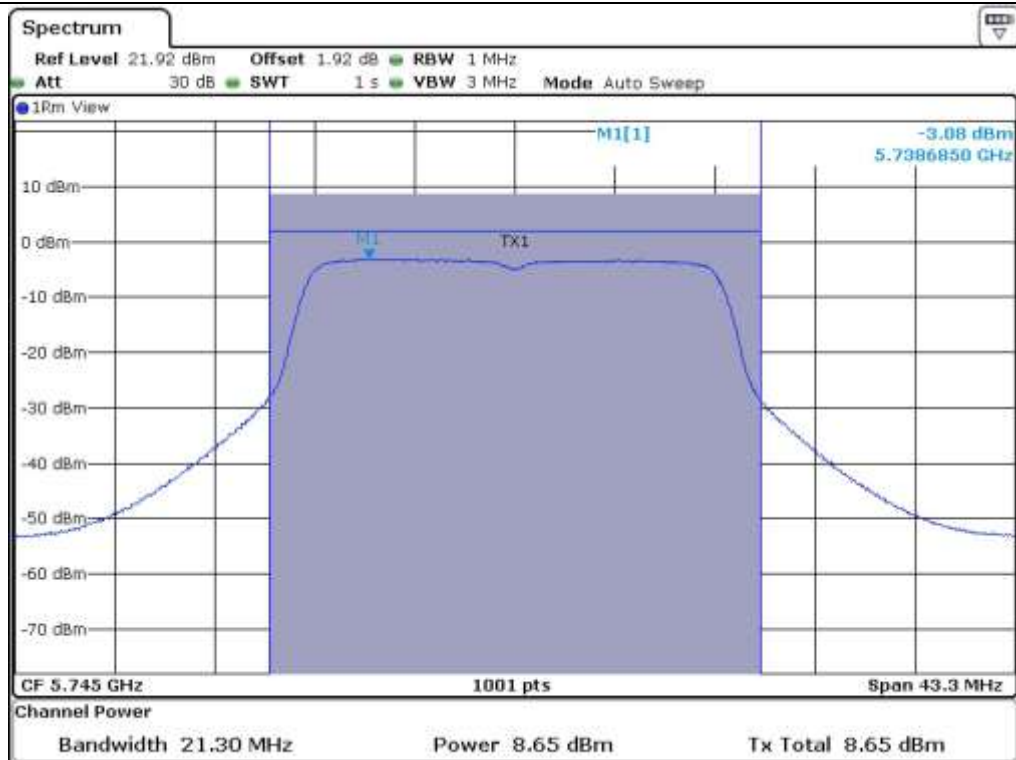


Low Channel @ 5 180 MHz (26 dB Bandwidth)

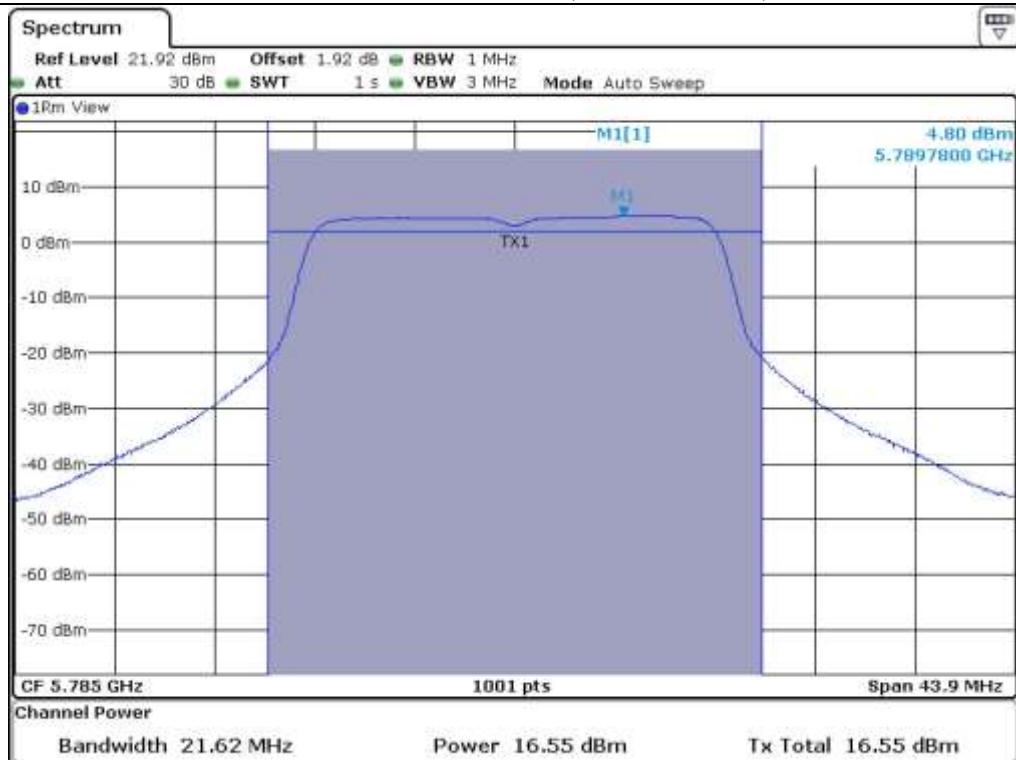


Middle Channel @ 5 200 MHz (26 dB Bandwidth)

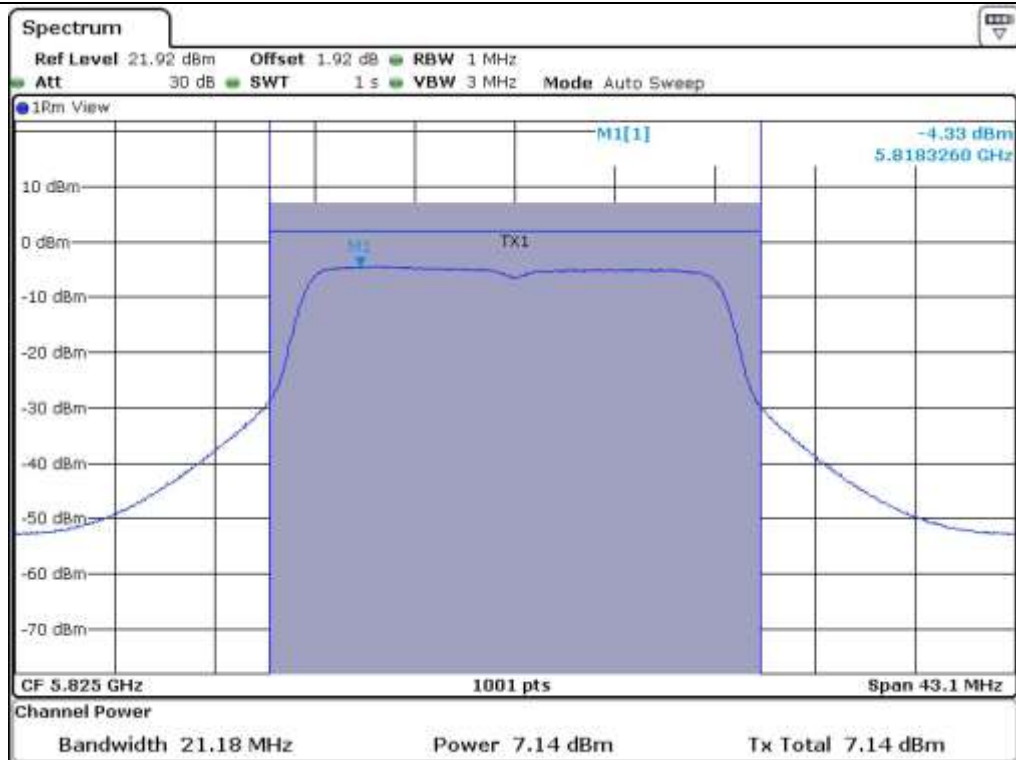




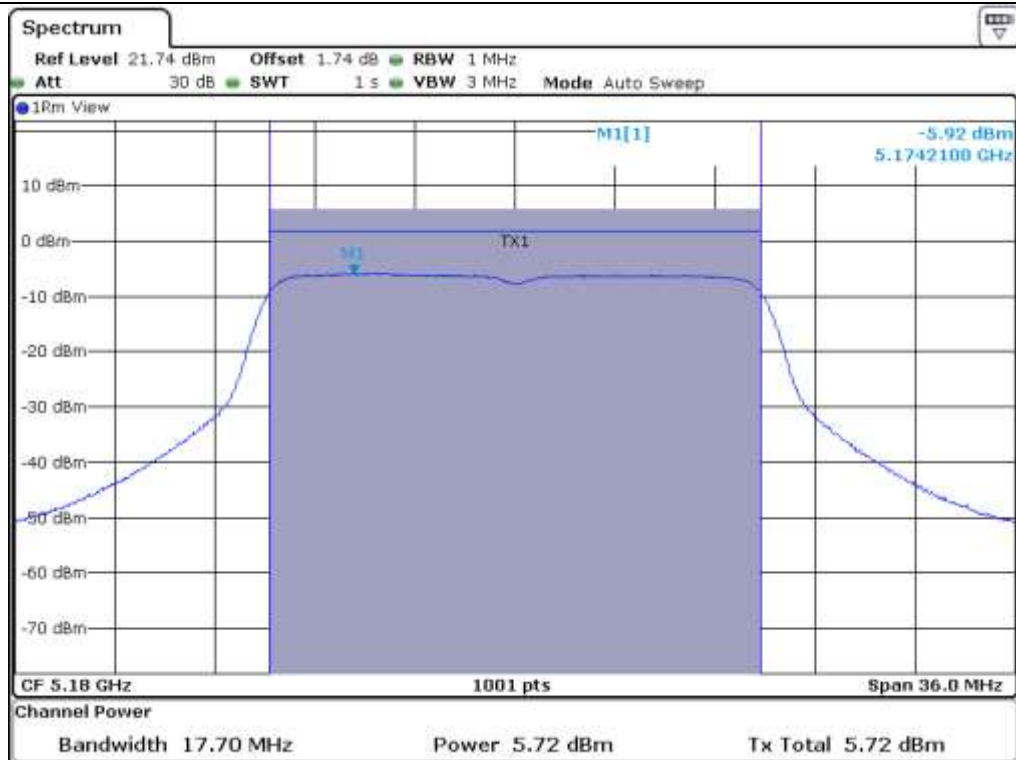
Low Channel @ 5.745 MHz (26 dB Bandwidth)



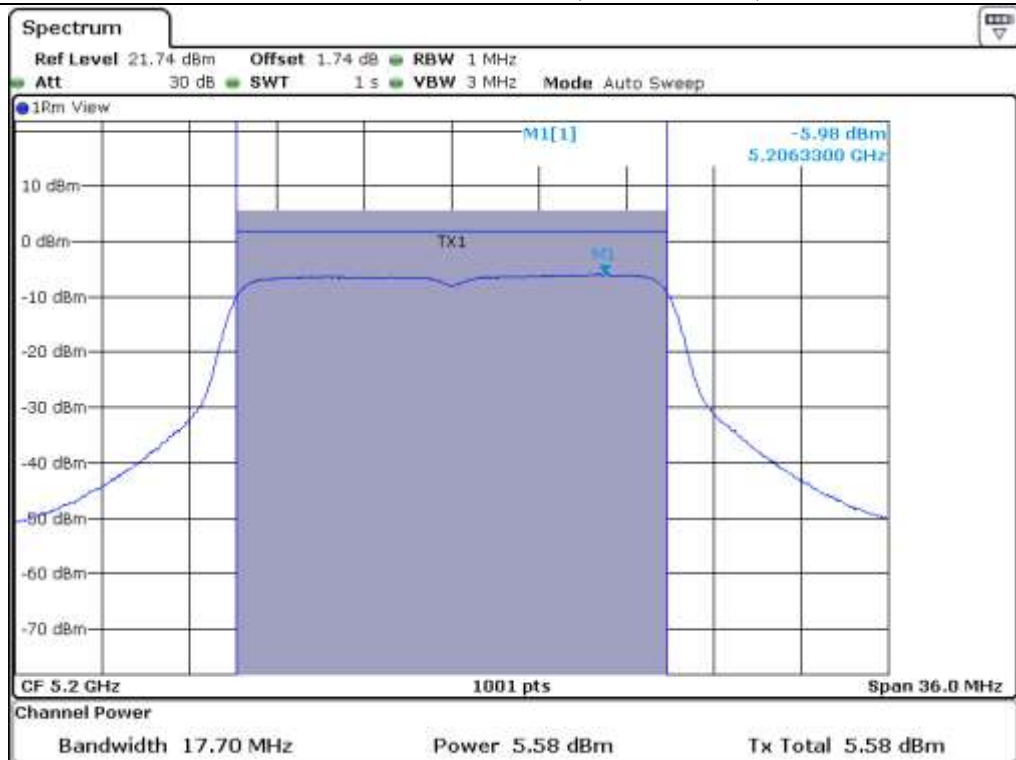
Middle Channel @ 5.785 MHz (26 dB Bandwidth)



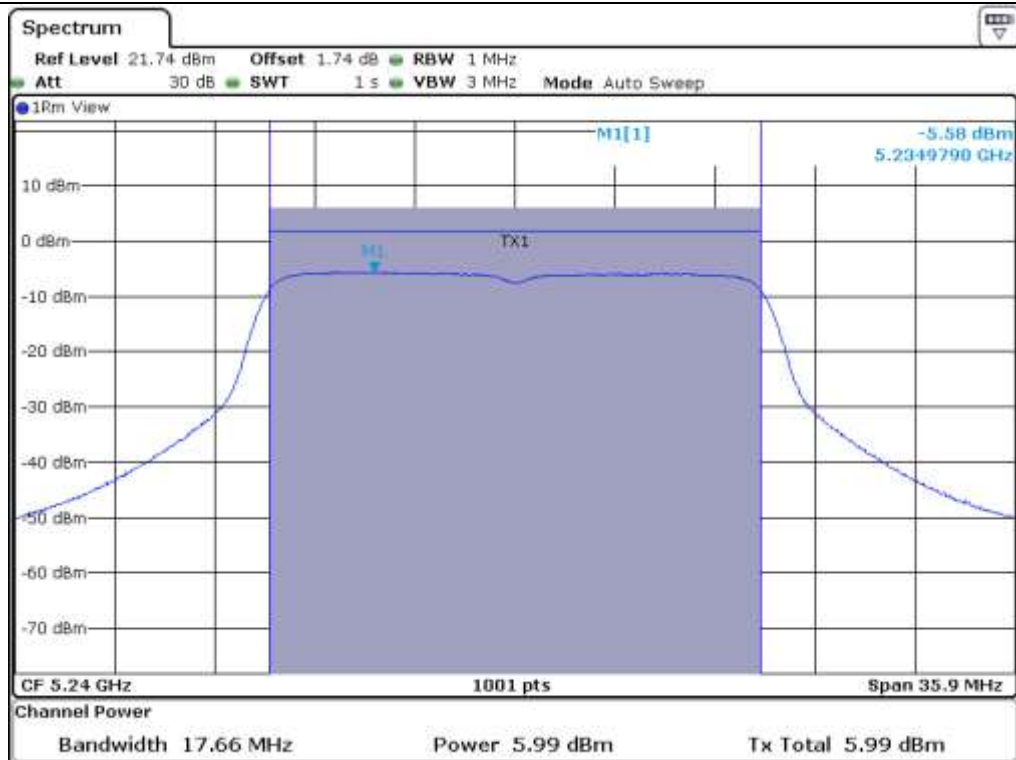
High Channel @ 5 825 MHz (26 dB Bandwidth)



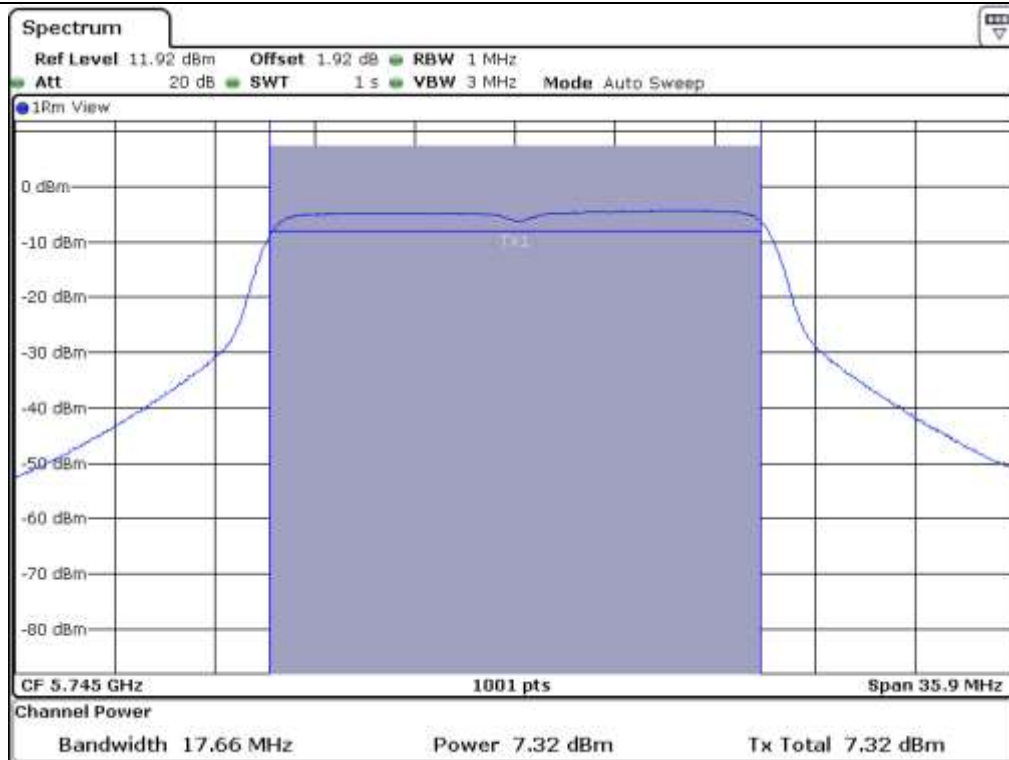
Low Channel @ 5 180 MHz (99 % bandwidth)



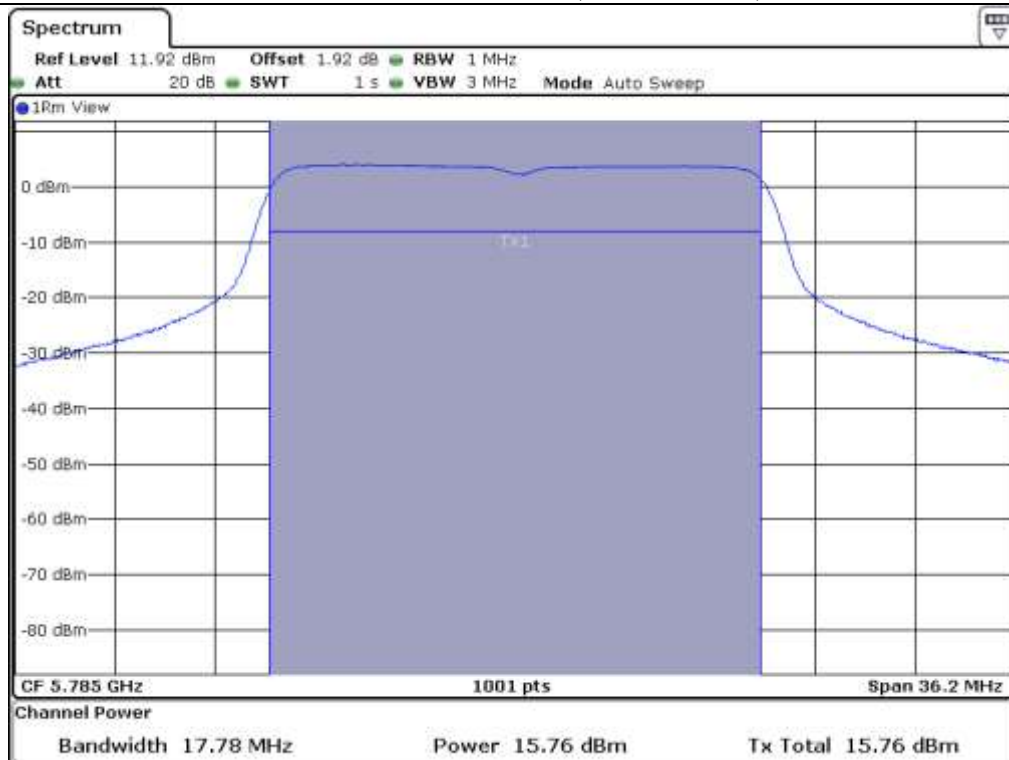
Middle Channel @ 5 200 MHz (99 % bandwidth)



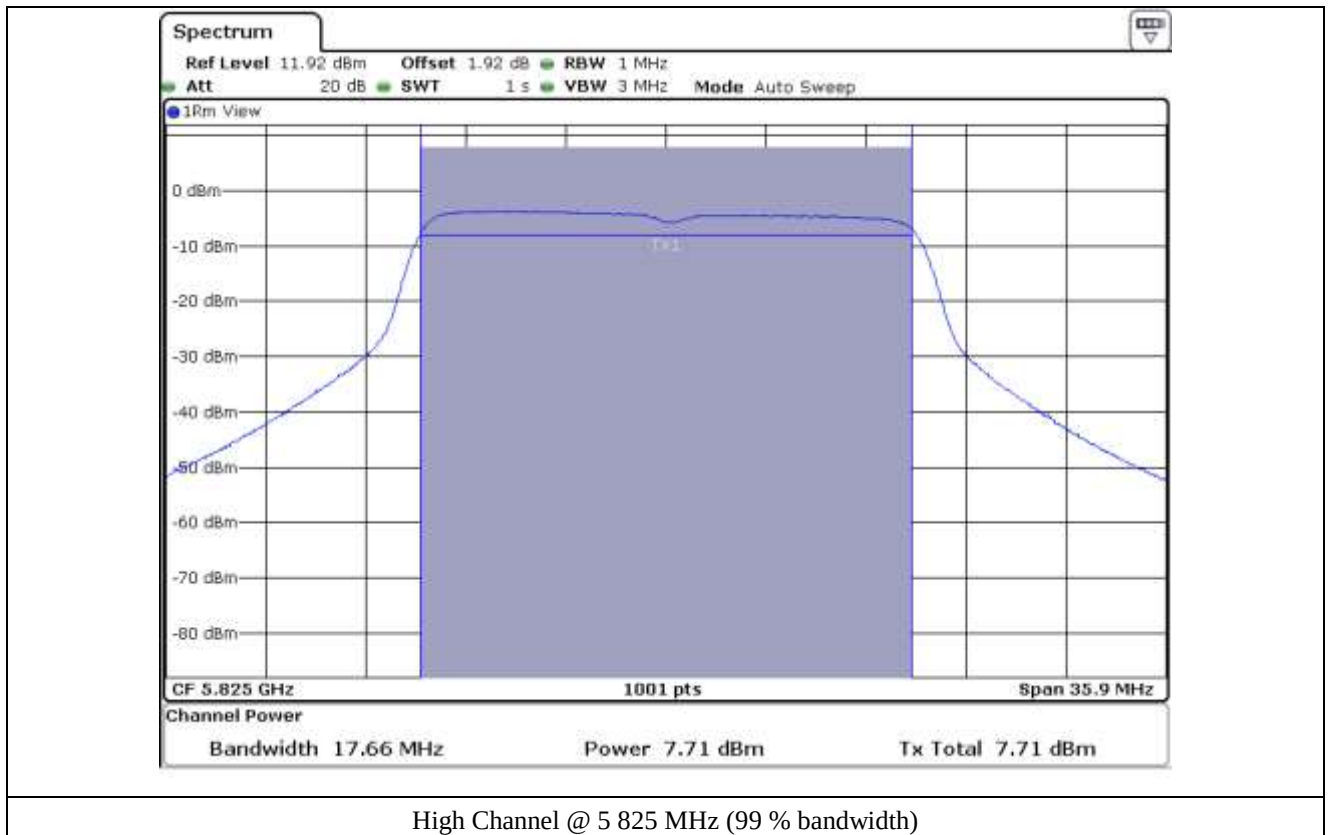
High Channel @ 5 240 MHz (99 % bandwidth)



Low Channel @ 5.745 MHz (99 % bandwidth)



Middle Channel @ 5.785 MHz (99 % bandwidth)



8.5.3 Test data for Antenna 2

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	21.94	8.37	29.47	21.10
	Middle	5 200	21.98	8.44	29.47	21.03
	High	5 240	21.82	8.61	29.47	20.86
5 725 ~ 5 850	Low	5 745	21.22	8.82	29.59	20.77
	Middle	5 785	21.94	15.97	29.59	13.62
	High	5 825	21.34	7.61	29.59	21.98

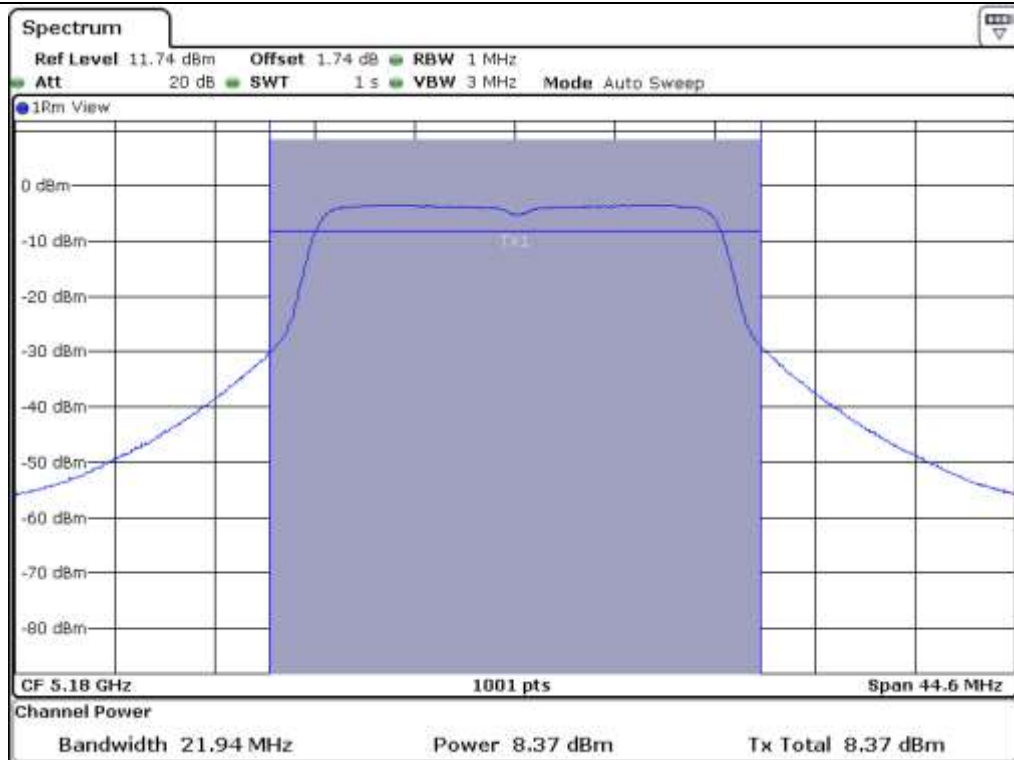
Remark: See next page for measurement data.

-. IC Test data

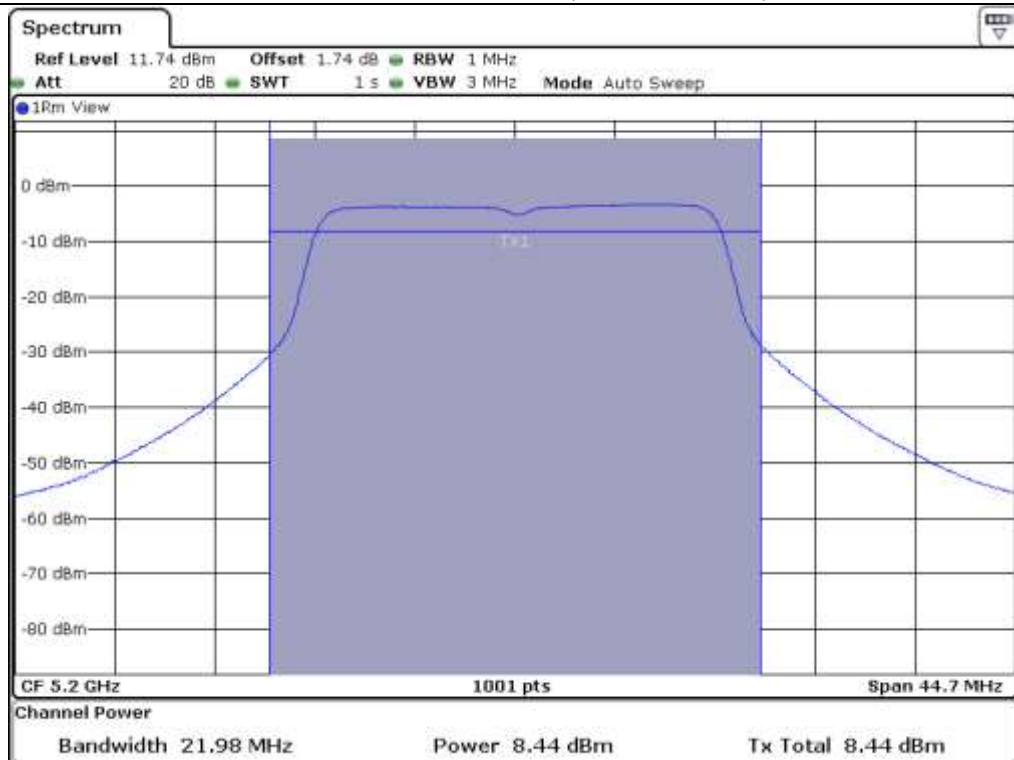
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.53	17.70	5.53	22.47	10.41	12.06
	Middle	5 200		17.66	5.30	22.47	10.64	11.83
	High	5 240		17.70	5.29	22.47	10.65	11.82
5 725 ~ 5 825	Low	5 745	6.42	17.66	7.81	29.58	21.77	-
	Middle	5 785		17.70	15.07	29.58	14.51	-
	High	5 825		17.66	8.03	29.58	21.55	-

Remark: See next page for measurement data.

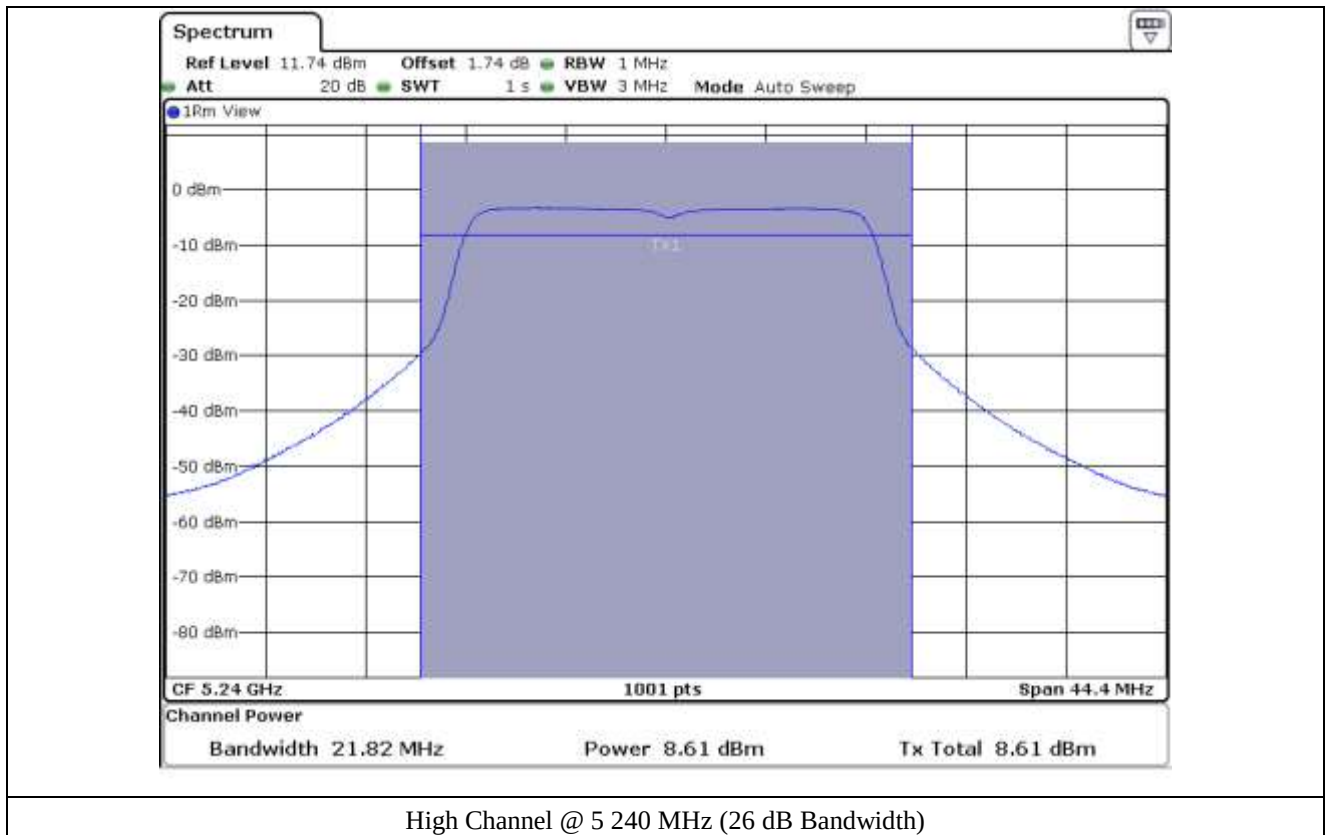
Tested by: Jun-Hui, Lee / Senior Engineer

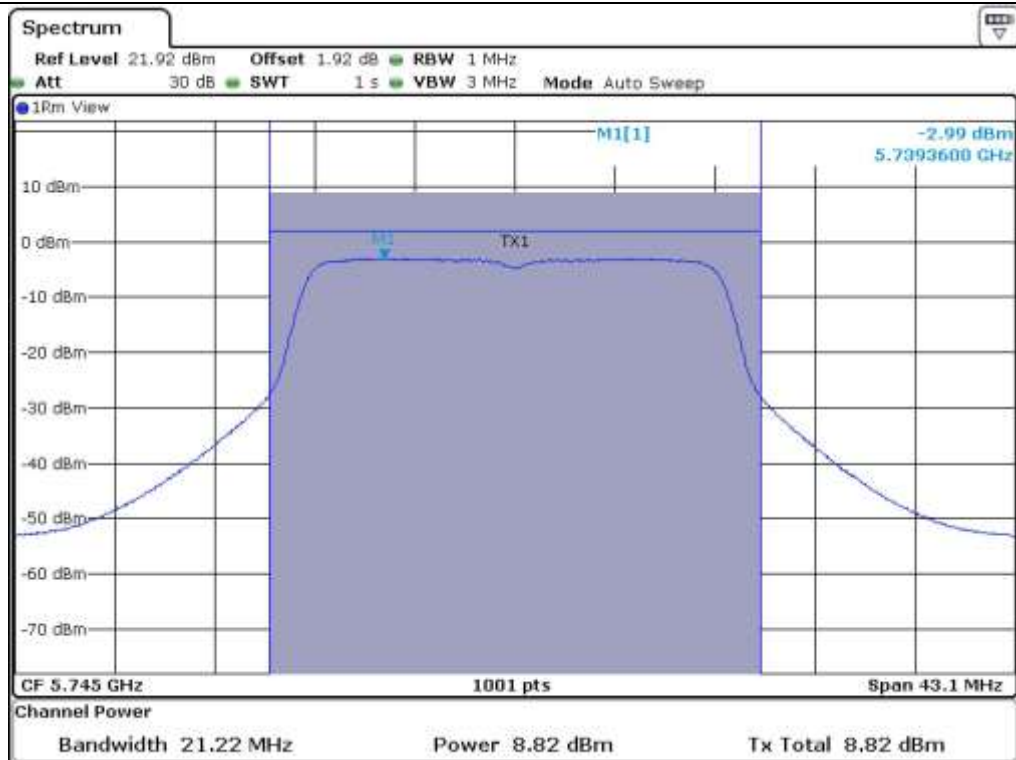


Low Channel @ 5 180 MHz (26 dB Bandwidth)

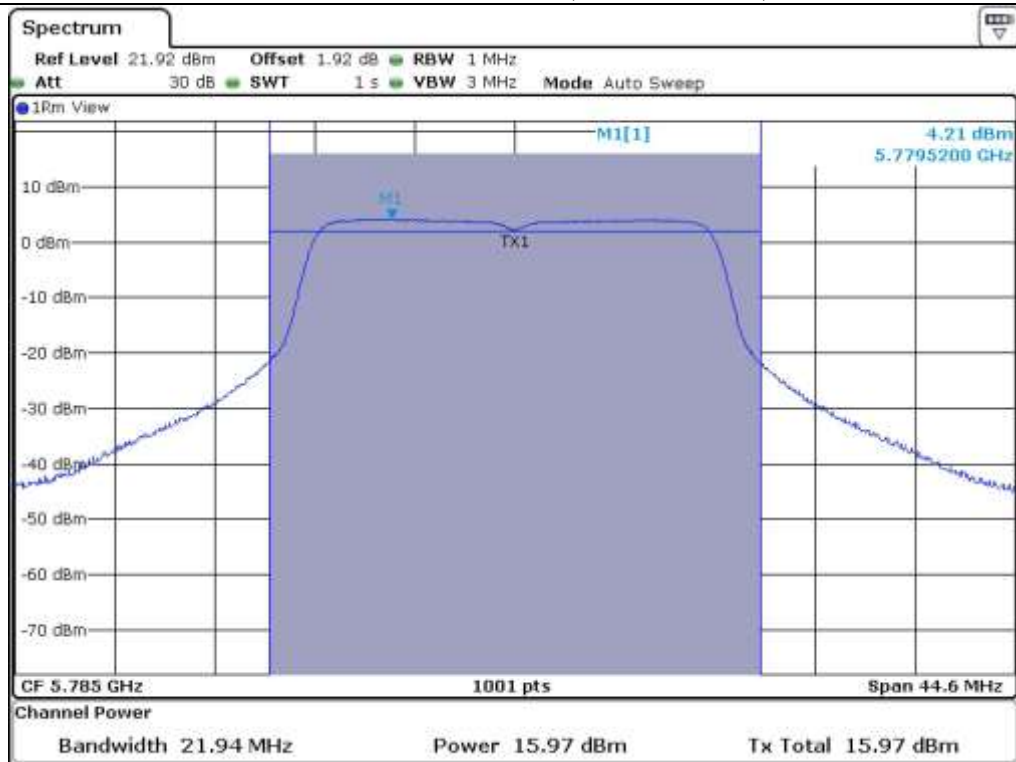


Middle Channel @ 5 200 MHz (26 dB Bandwidth)

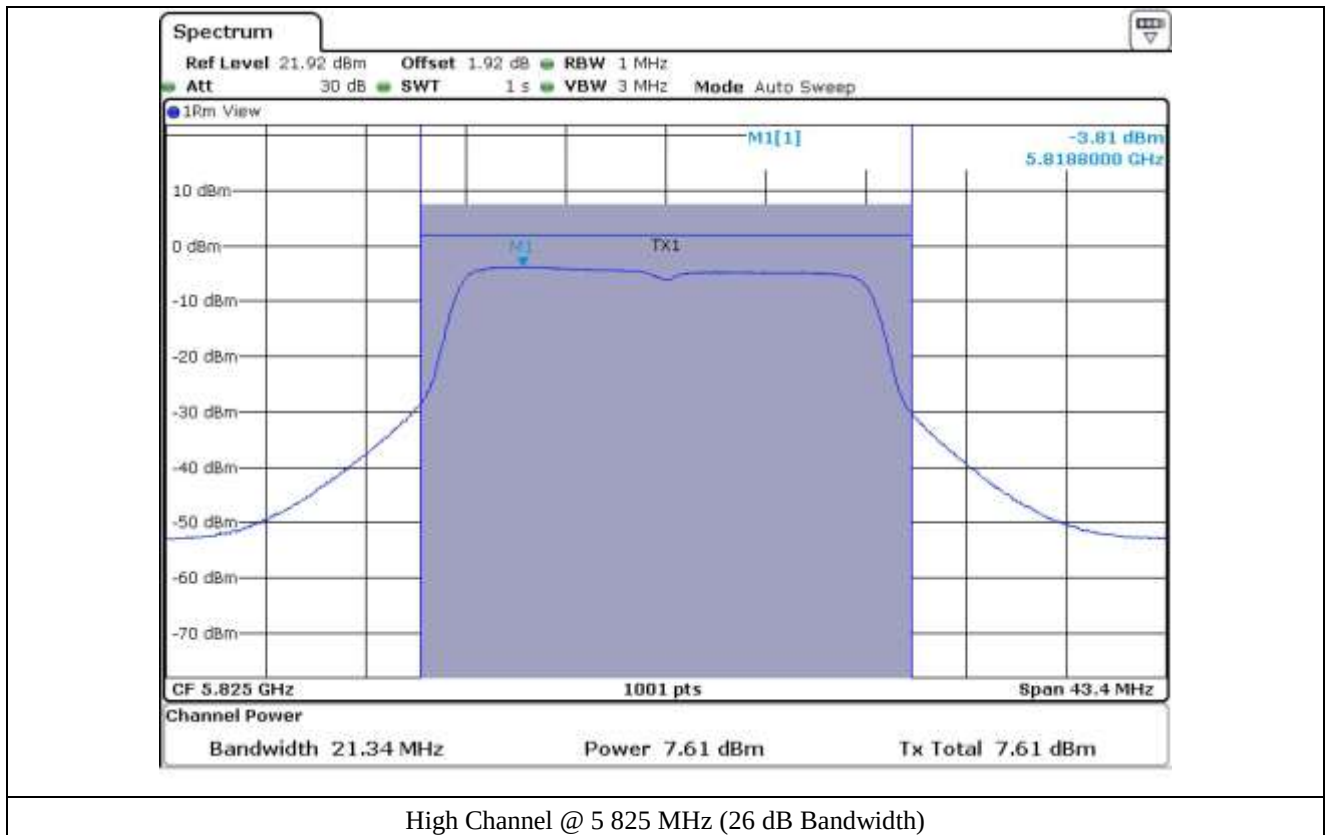


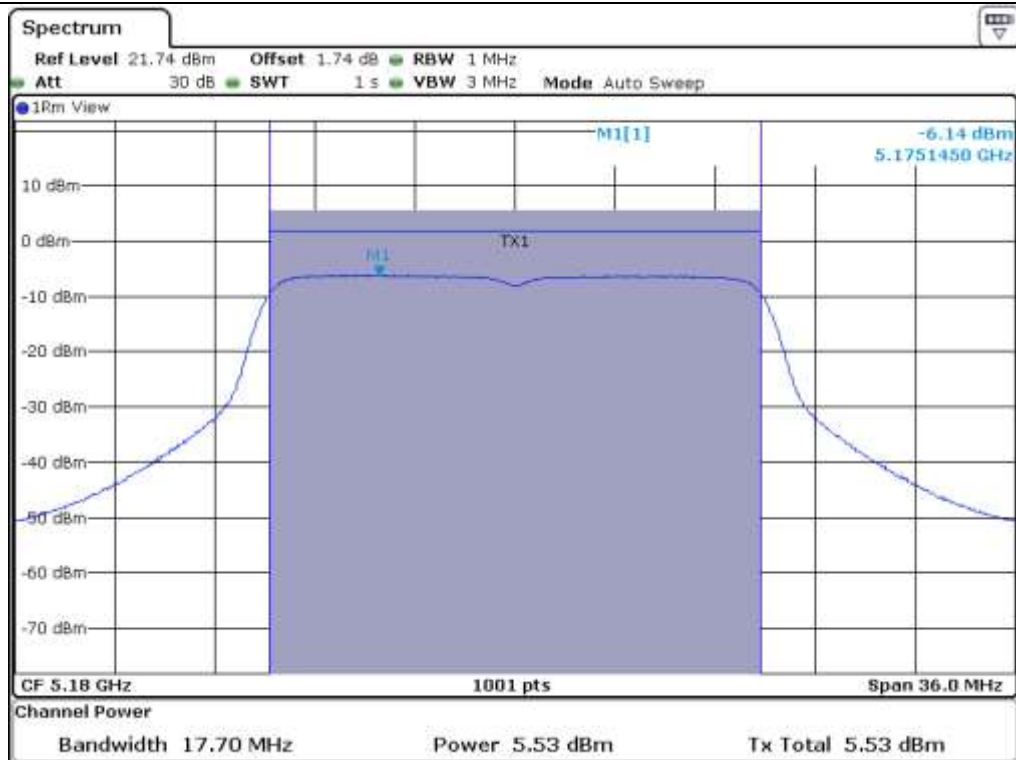


Low Channel @ 5.745 MHz (26 dB Bandwidth)

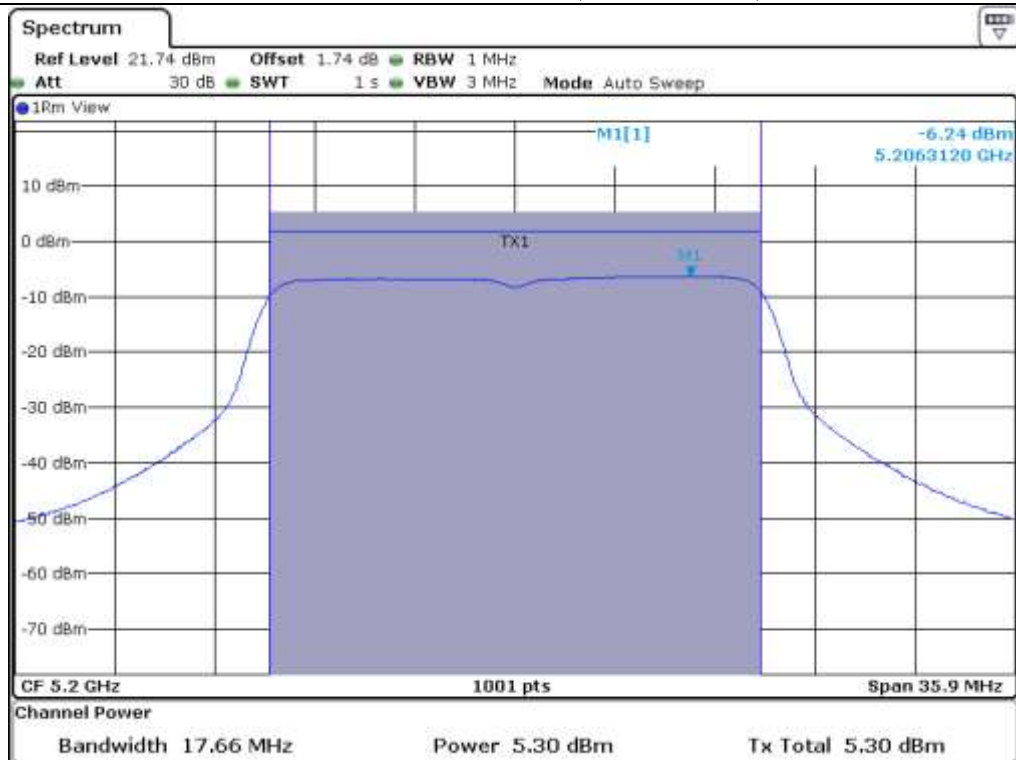


Middle Channel @ 5.785 MHz (26 dB Bandwidth)

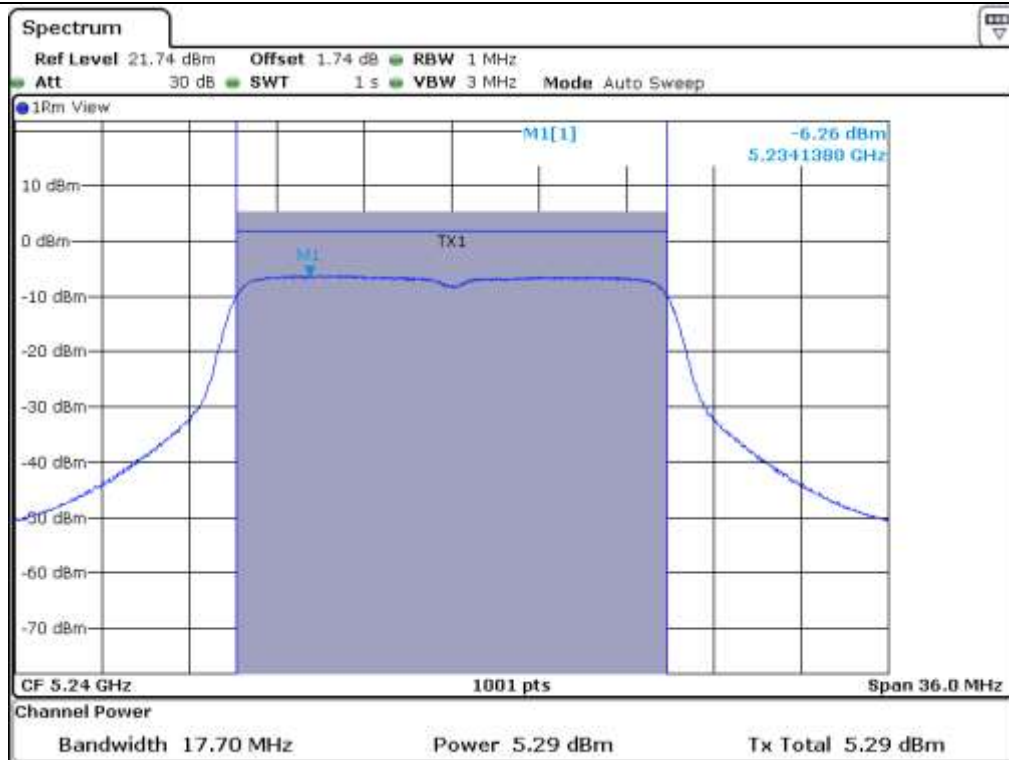




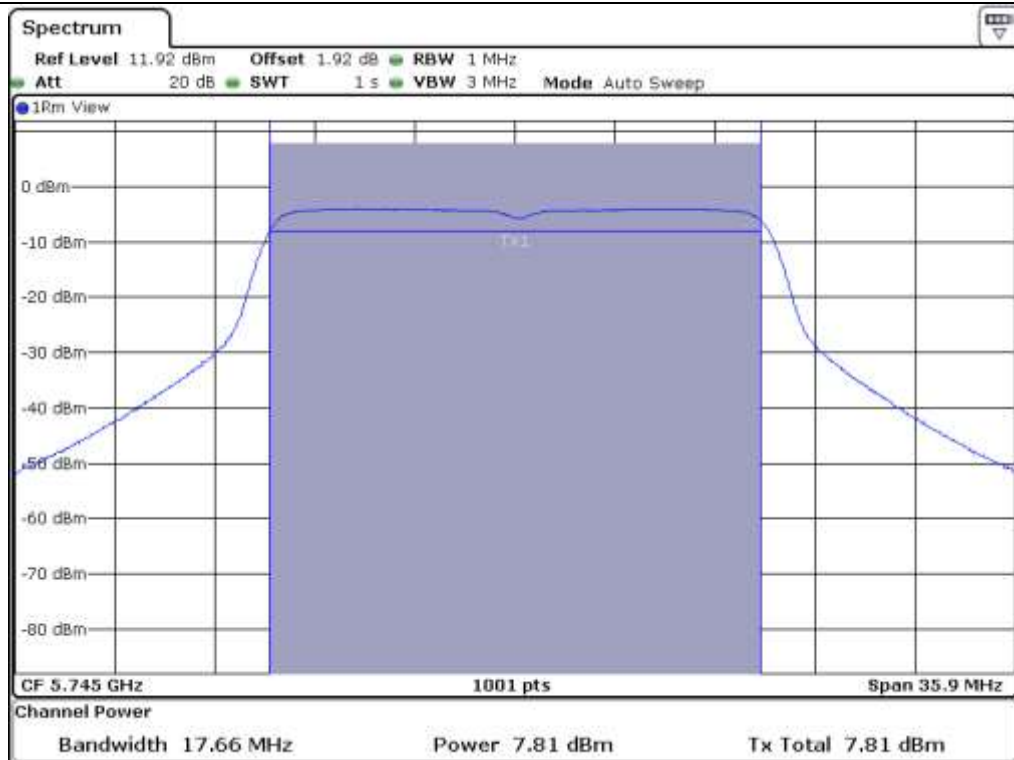
Low Channel @ 5 180 MHz (99 % bandwidth)



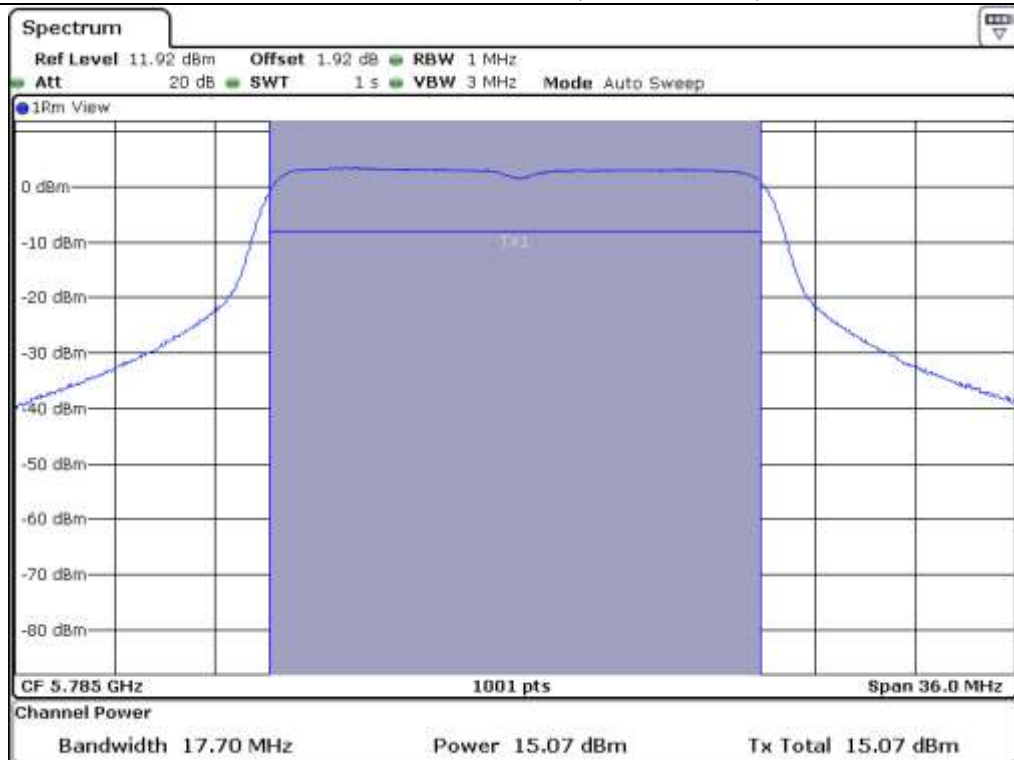
Middle Channel @ 5 200 MHz (99 % bandwidth)



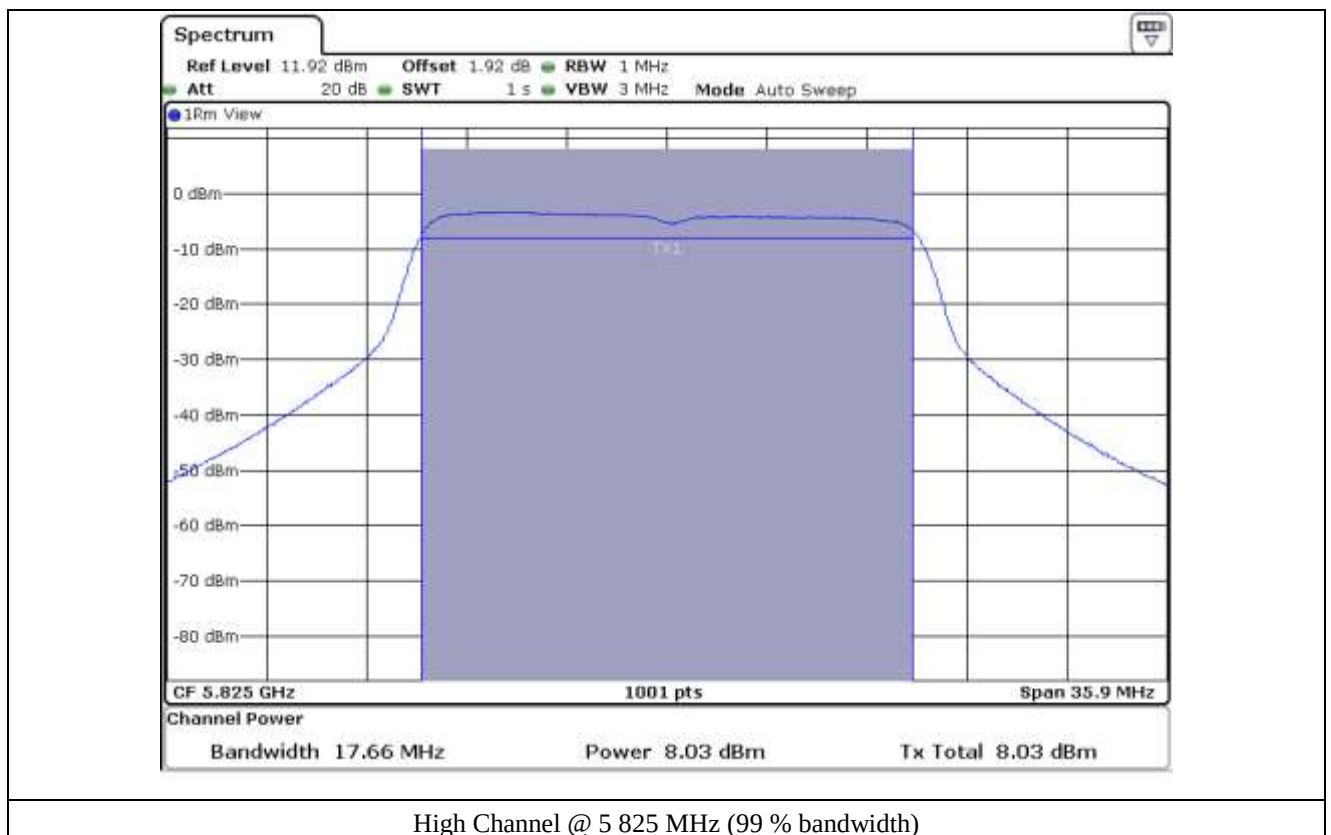
High Channel @ 5 240 MHz (99 % bandwidth)



Low Channel @ 5.745 MHz (99 % bandwidth)



Middle Channel @ 5.785 MHz (99 % bandwidth)



8.5.4 Test data for Multiple transmit

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	13.45	24.70	11.25
	Middle	5 200	13.45	24.70	11.25
	High	5 240	13.50	24.70	11.20
5 725 ~ 5 850	Low	5 745	13.33	24.81	11.49
	Middle	5 785	21.04	24.81	3.78
	High	5 825	12.21	24.81	12.60

Remark 1 : Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Remark 2 :Calculated Output Power= $10\log (10^{(\text{Antenna1 Output Power}/10)}+10^{(\text{Antenna2 Output Power}/10)})$

-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	11.30	17.7	10.43	22.47	0.74	21.73
	Middle	5 200		17.7	10.30	22.47	0.86	21.61
	High	5 240		17.7	10.40	22.47	0.76	21.70
5 725 ~ 5 825	Low	5 745	11.19	17.66	12.53	24.81	12.28	-
	Middle	5 785		17.78	20.46	24.81	4.36	-
	High	5 825		17.66	12.96	24.81	11.85	-

Remark 1 : Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Remark 2 :Calculated Output Power= $10\log (10^{(\text{Antenna1 Output Power}/10)}+10^{(\text{Antenna2 Output Power}/10)})$


Tested by: Jun-Hui, Lee / Senior Engineer

8.6 Test data for 802.11n_HT40 RLAN Mode

8.6.1 Test data for Antenna 0

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190	42.20	10.15	29.47	19.32
	High	5 230	41.96	9.97	29.47	19.50
5 725 ~ 5 850	Low	5 755	40.44	6.36	29.59	23.23
	High	5 795	41.08	6.19	29.59	23.40

Remark: See next page for measurement data.

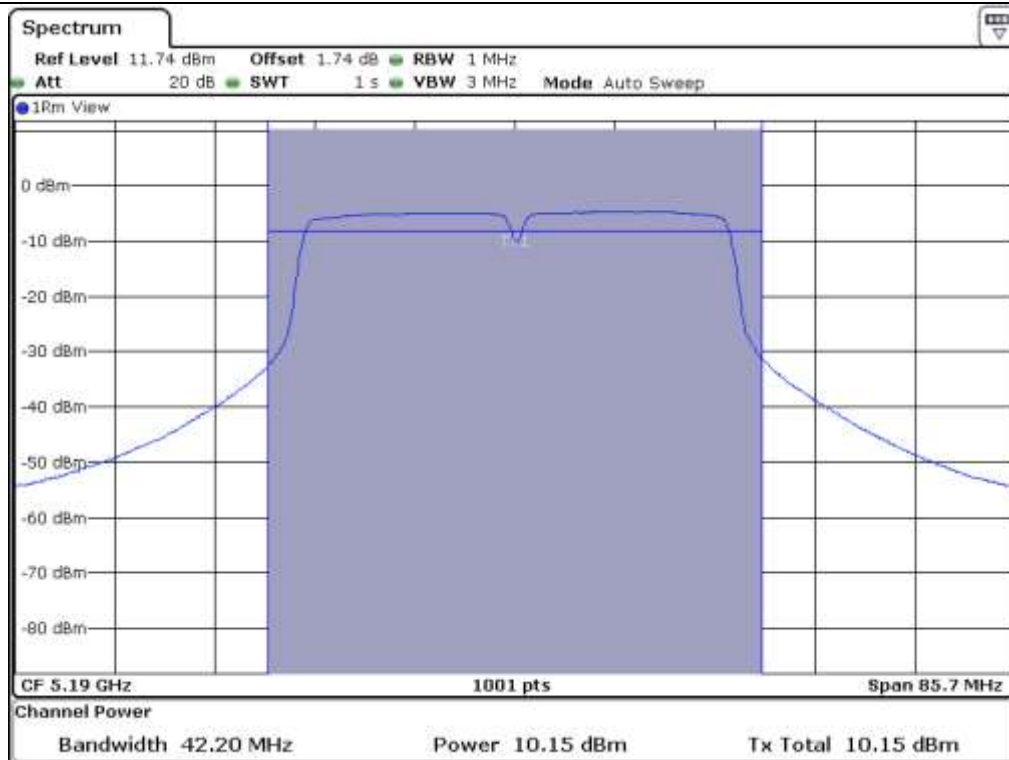
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 190	6.53	36.12	5.35	23.00	11.12	11.88
	High	5 230		36.12	5.55	23.00	10.92	12.08
5 725 ~ 5 825	Low	5 755	6.42	36.12	6.43	29.59	23.16	
	High	5 795		36.20	5.90	29.59	23.69	

Remark: See next page for measurement data.



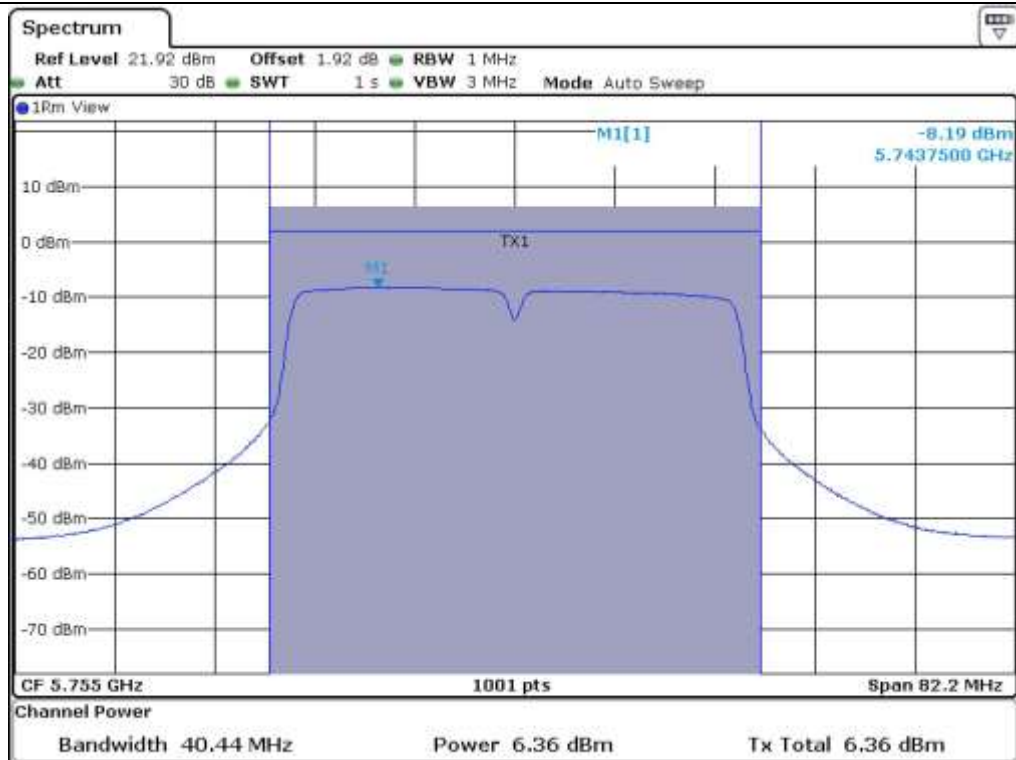
Tested by: Jun-Hui, Lee / Senior Engineer



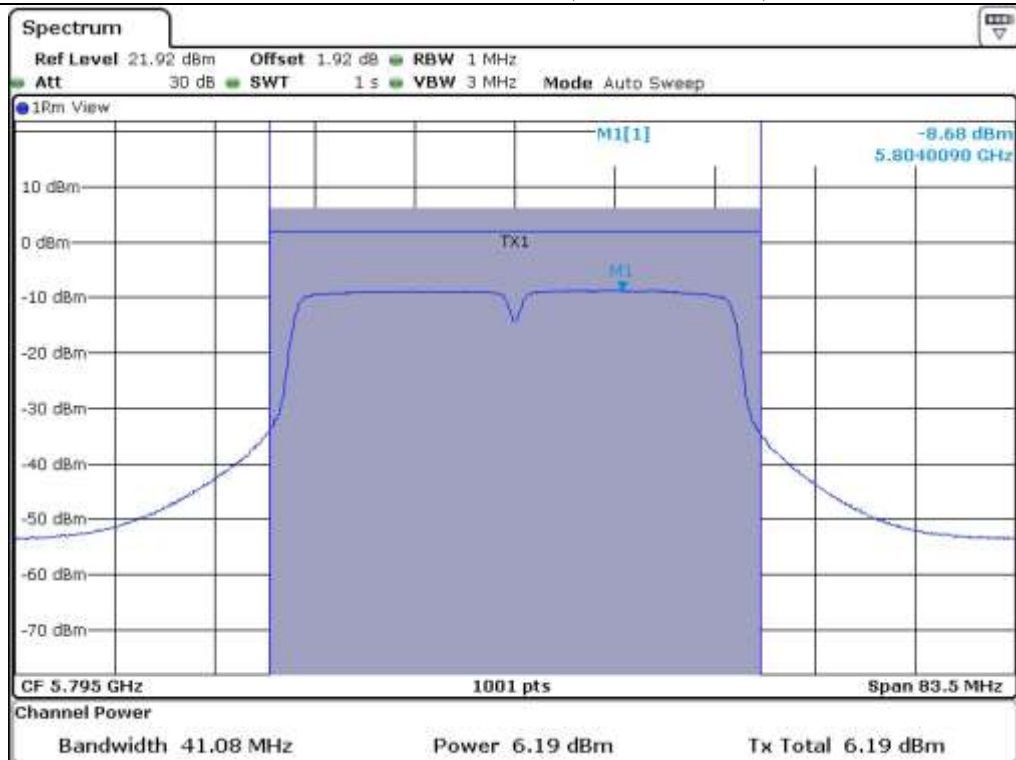
Low Channel @ 5 190 MHz (26 dB Bandwidth)



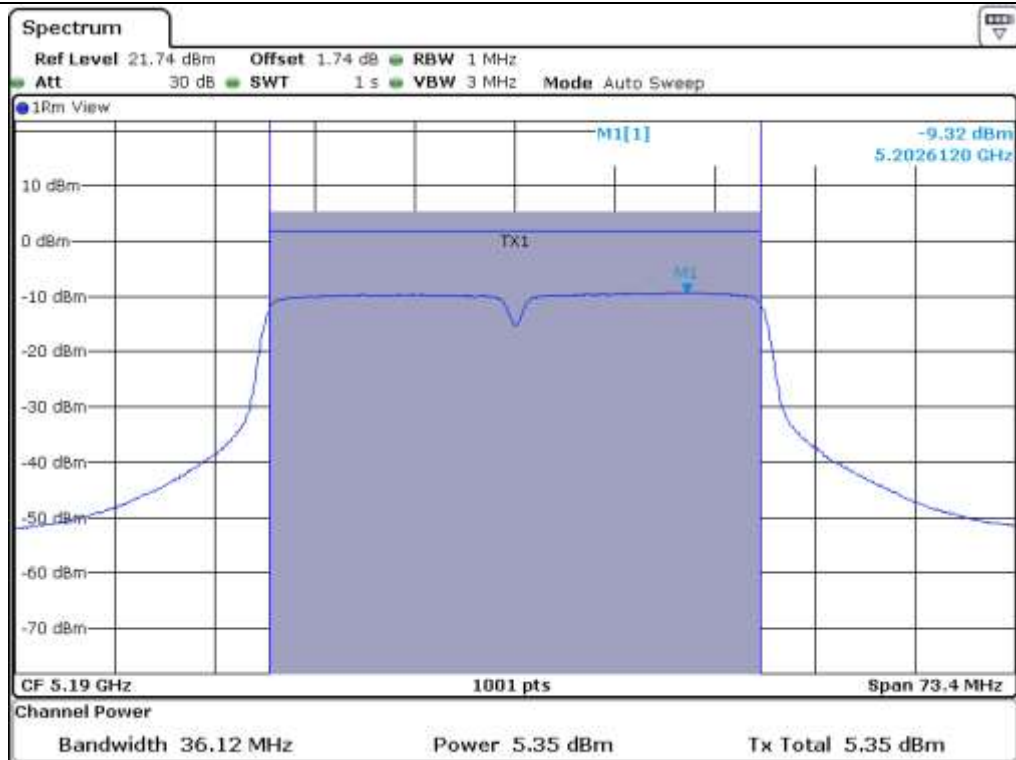
High Channel @ 5 230 MHz (26 dB Bandwidth)



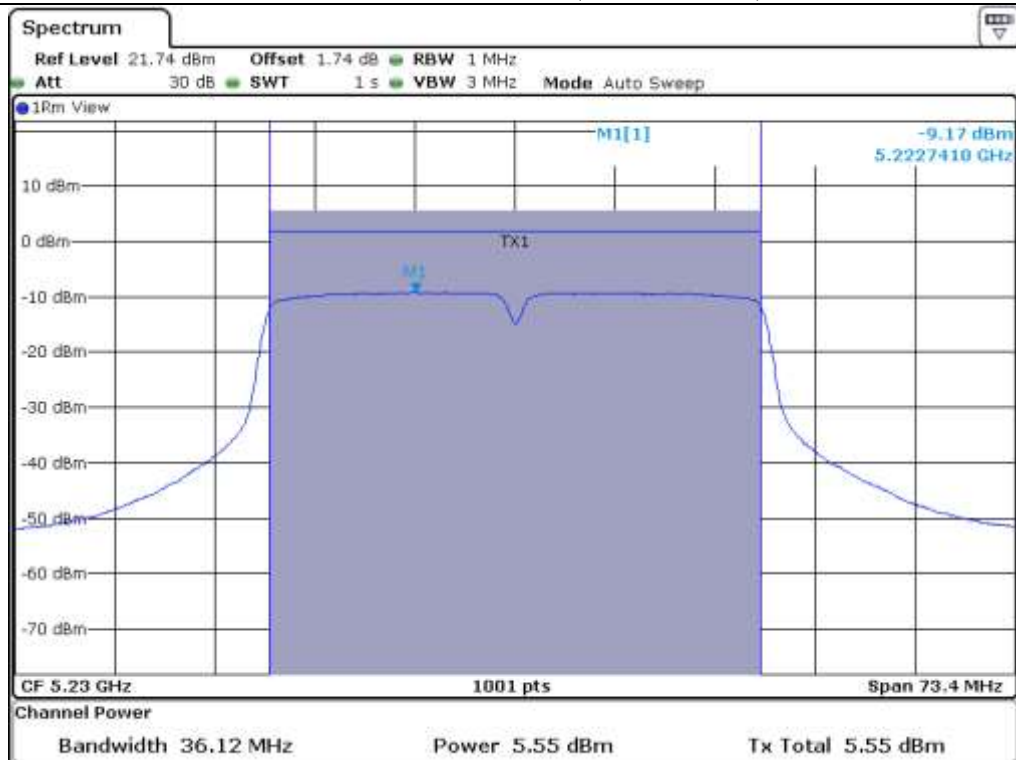
Low Channel @ 5.755 MHz (26 dB Bandwidth)



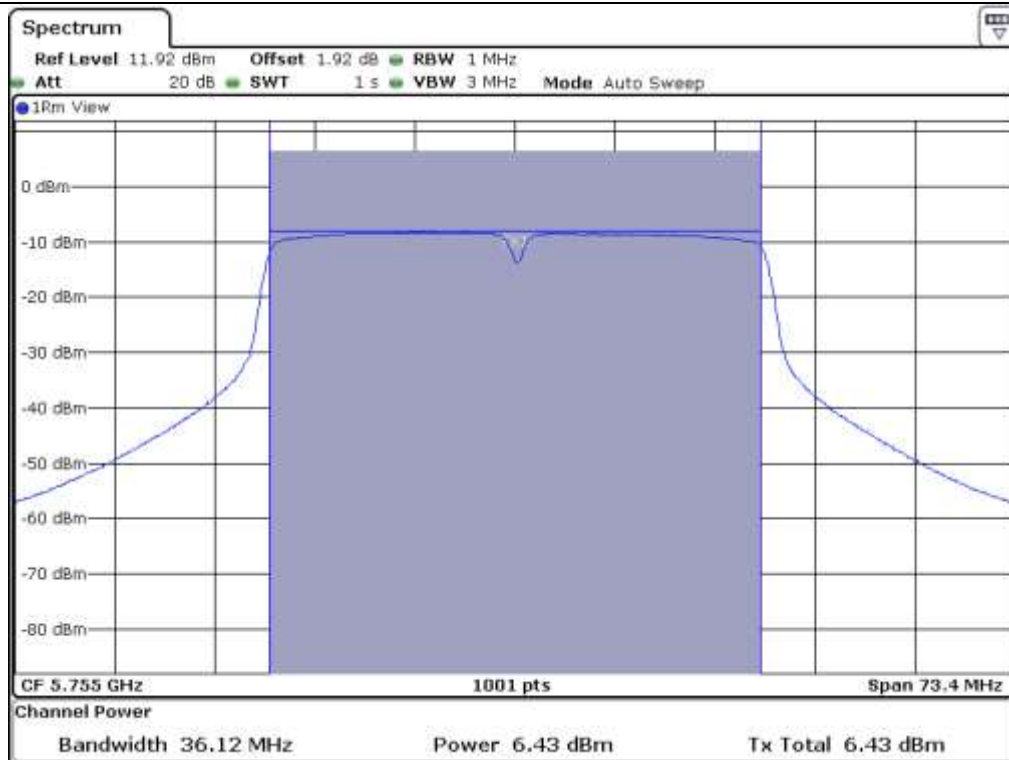
Middle Channel @ 5.795 MHz (26 dB Bandwidth)



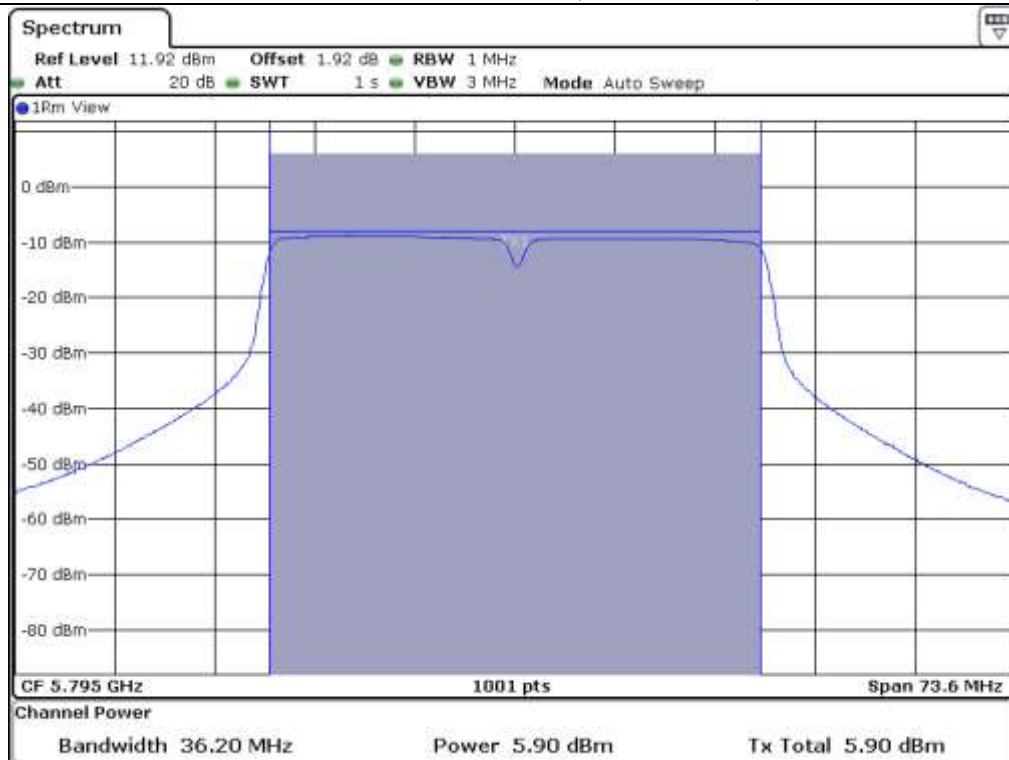
Low Channel @ 5 190 MHz (99 % bandwidth)



High Channel @ 5 230 MHz (99 % bandwidth)



Low Channel @ 5 755 MHz (99 % bandwidth)



High Channel @ 5 795 MHz (99 % bandwidth)

8.6.2 Test data for Antenna 1

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190	42.28	9.41	29.47	20.06
	High	5 230	42.04	9.81	29.47	19.66
5 725 ~ 5 850	Low	5 755	40.80	6.00	29.59	23.59
	High	5 795	41.64	5.83	29.59	23.76

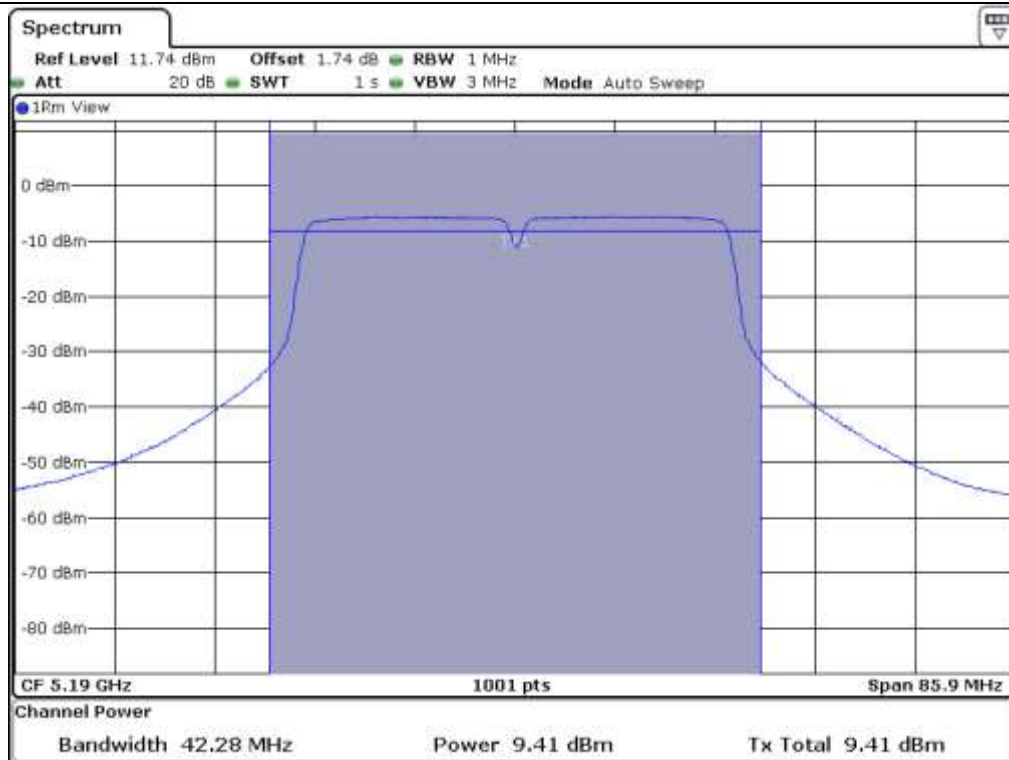
Remark: See next page for measurement data.

-. IC Test data

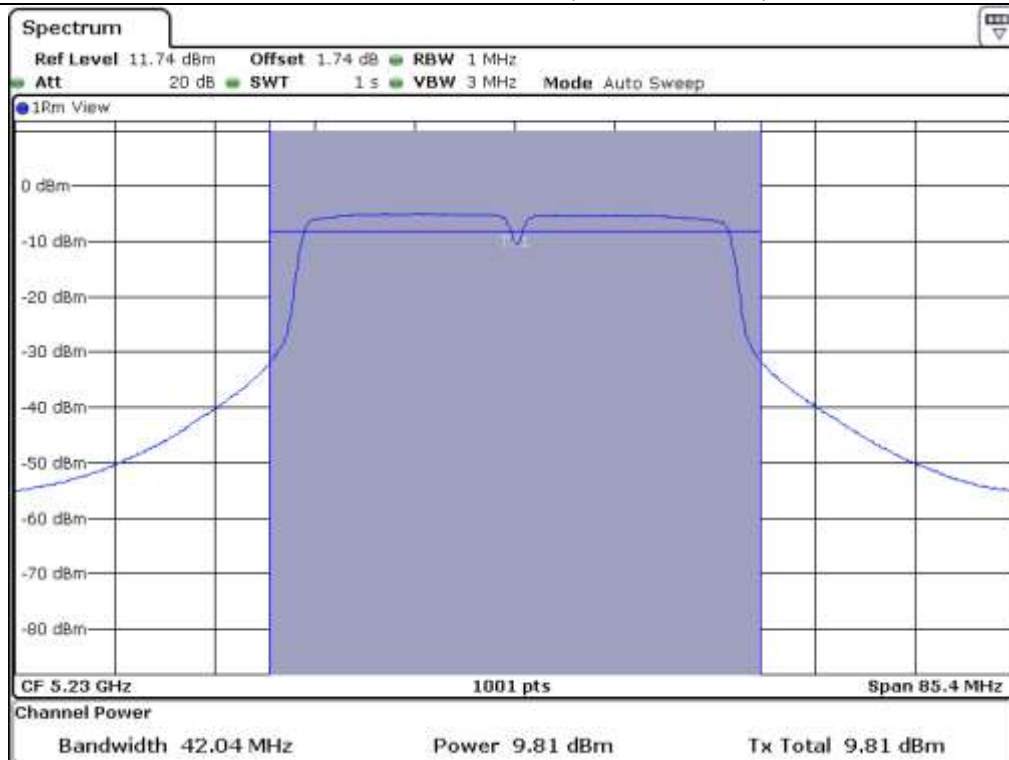
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 190	6.53	36.20	5.10	23.00	11.37	11.63
	High	5 230		36.20	5.70	23.00	10.77	12.23
5 725 ~ 5 825	Low	5 755	6.42	36.12	5.59	29.59	24.00	-
	High	5 795		36.20	5.78	29.59	23.81	-

Remark: See next page for measurement data.

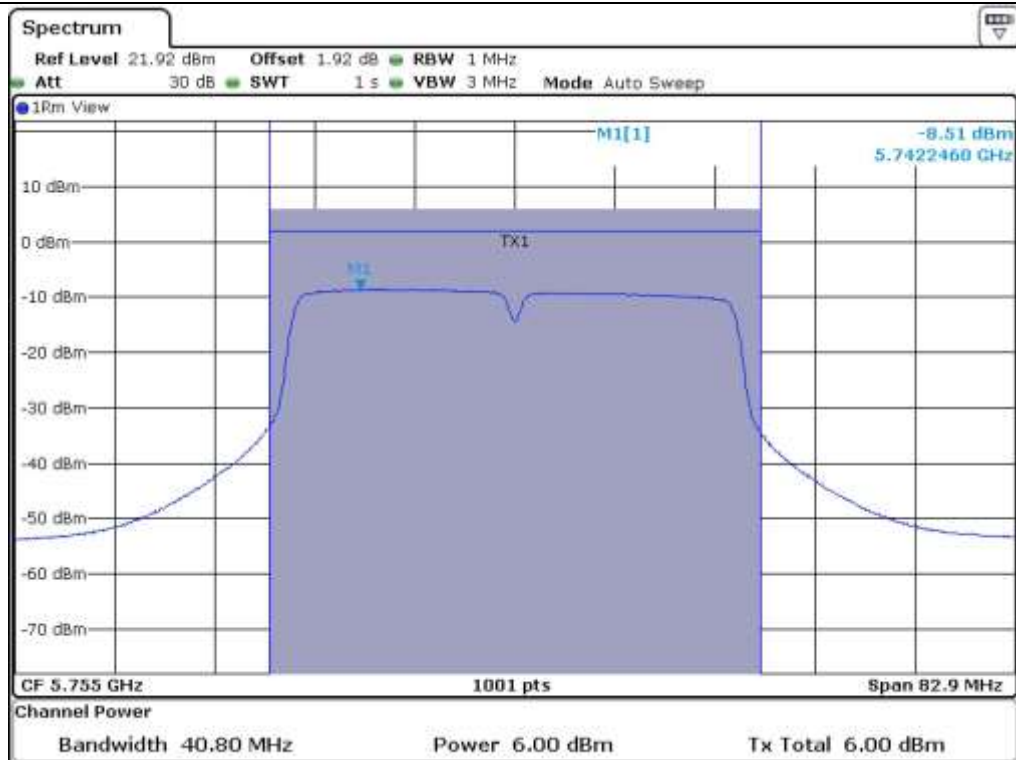

 Tested by: Jun-Hui, Lee / Senior Engineer



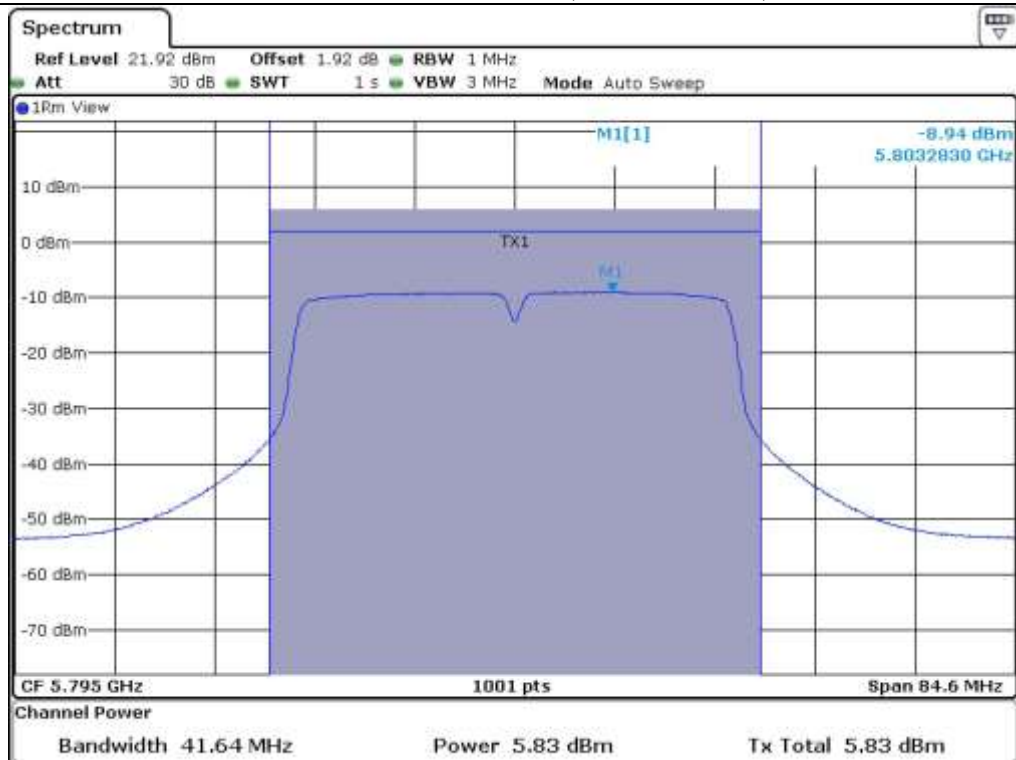
Low Channel @ 5 190 MHz (26 dB Bandwidth)



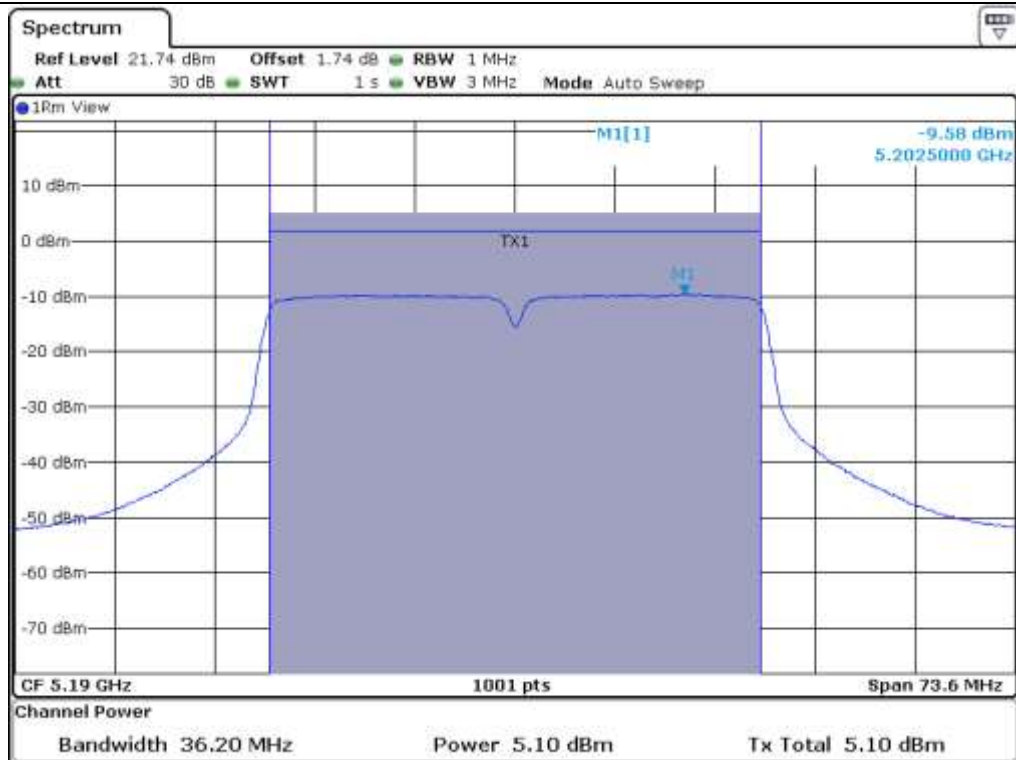
High Channel @ 5 230 MHz (26 dB Bandwidth)



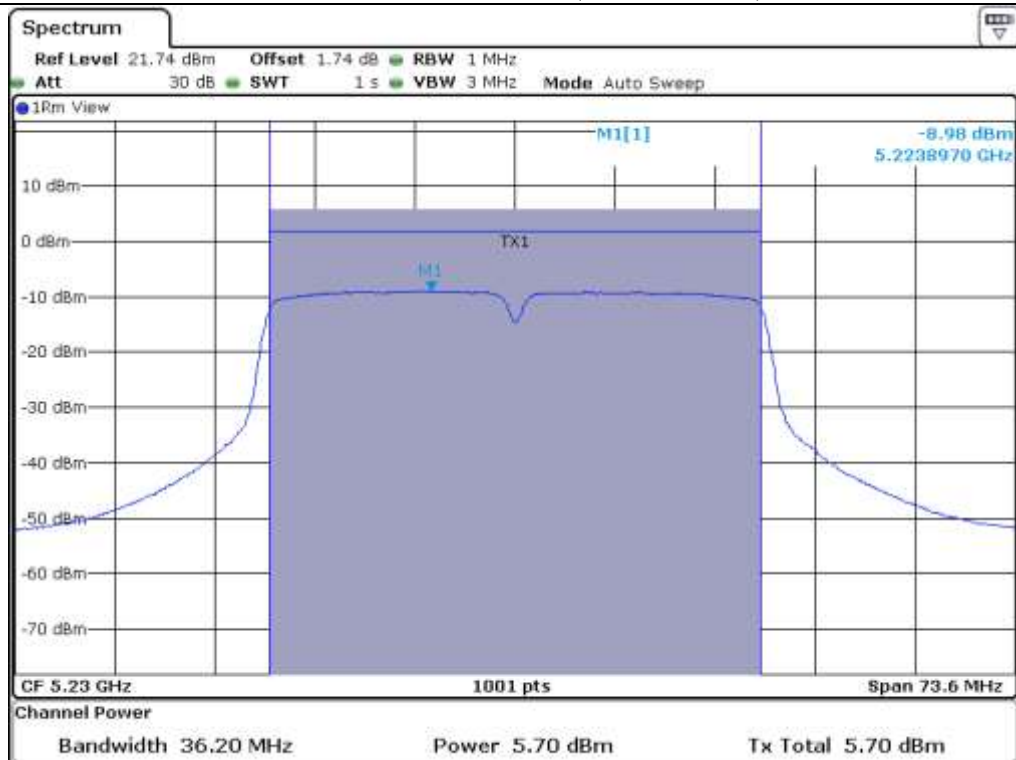
Low Channel @ 5.755 MHz (26 dB Bandwidth)



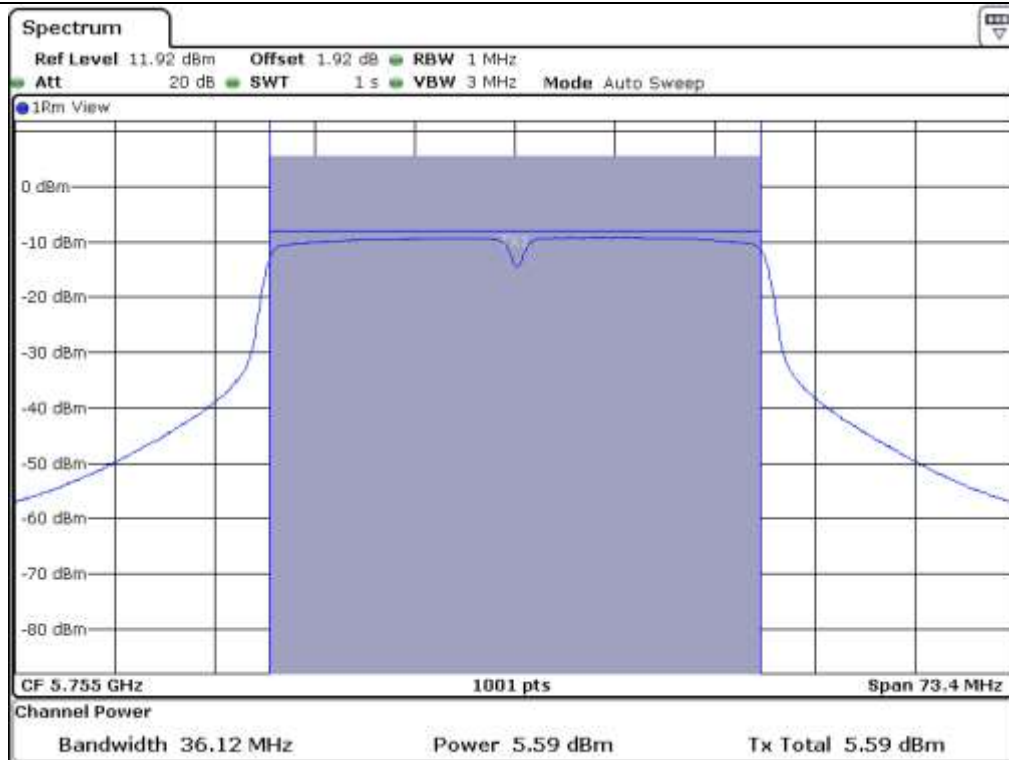
Middle Channel @ 5.795 MHz (26 dB Bandwidth)



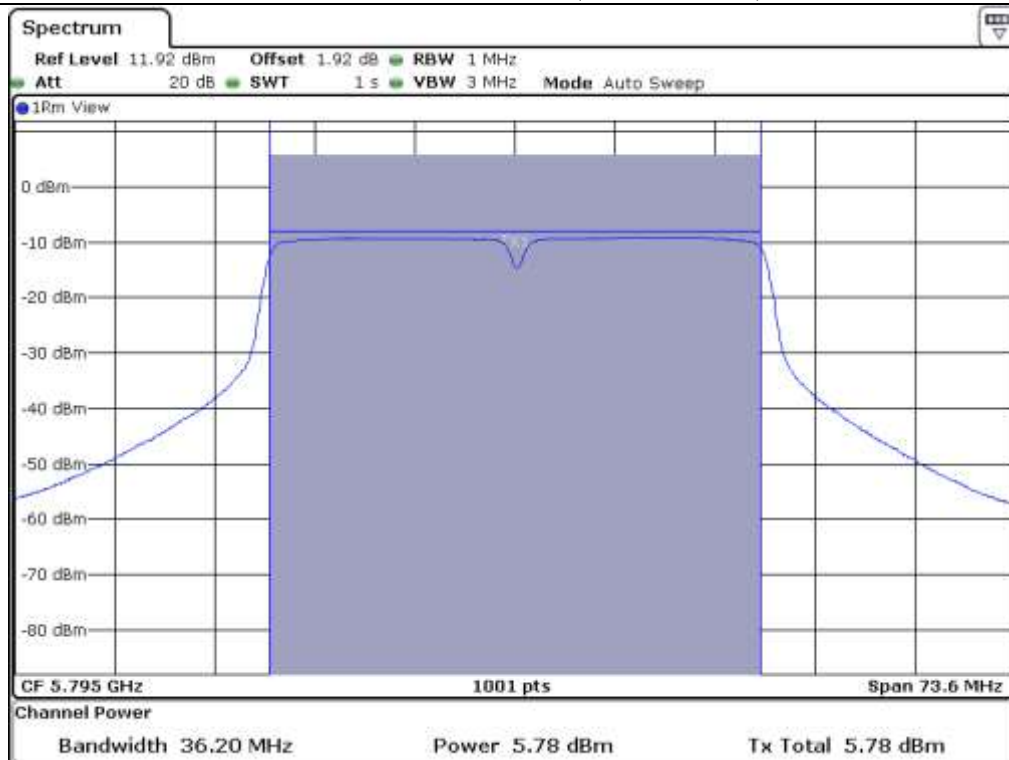
Low Channel @ 5 190 MHz (99 % bandwidth)



High Channel @ 5 230 MHz (99 % bandwidth)



Low Channel @ 5.755 GHz (99 % bandwidth)



High Channel @ 5.795 GHz (99 % bandwidth)

8.6.3 Test data for Antenna 2

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190	41.40	9.36	29.47	20.11
	High	5 230	41.64	9.82	29.47	19.65
5 725 ~ 5 850	Low	5 755	40.28	6.31	29.59	23.28
	High	5 795	41.24	5.69	29.59	23.90

Remark: See next page for measurement data.

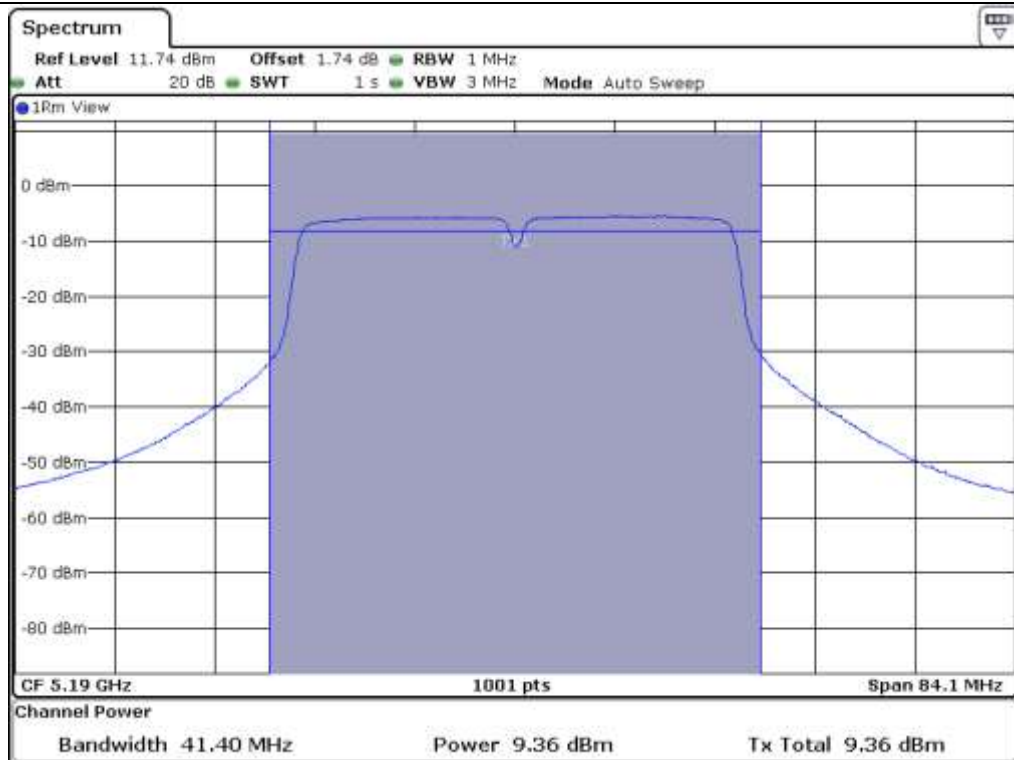
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 190	6.53	36.20	5.26	23.00	11.21	11.79
	High	5 230		36.12	5.57	23.00	10.90	12.10
5 725 ~ 5 825	Low	5 755	6.42	36.20	5.48	29.59	24.11	-
	High	5 795		36.20	5.05	29.59	24.54	-

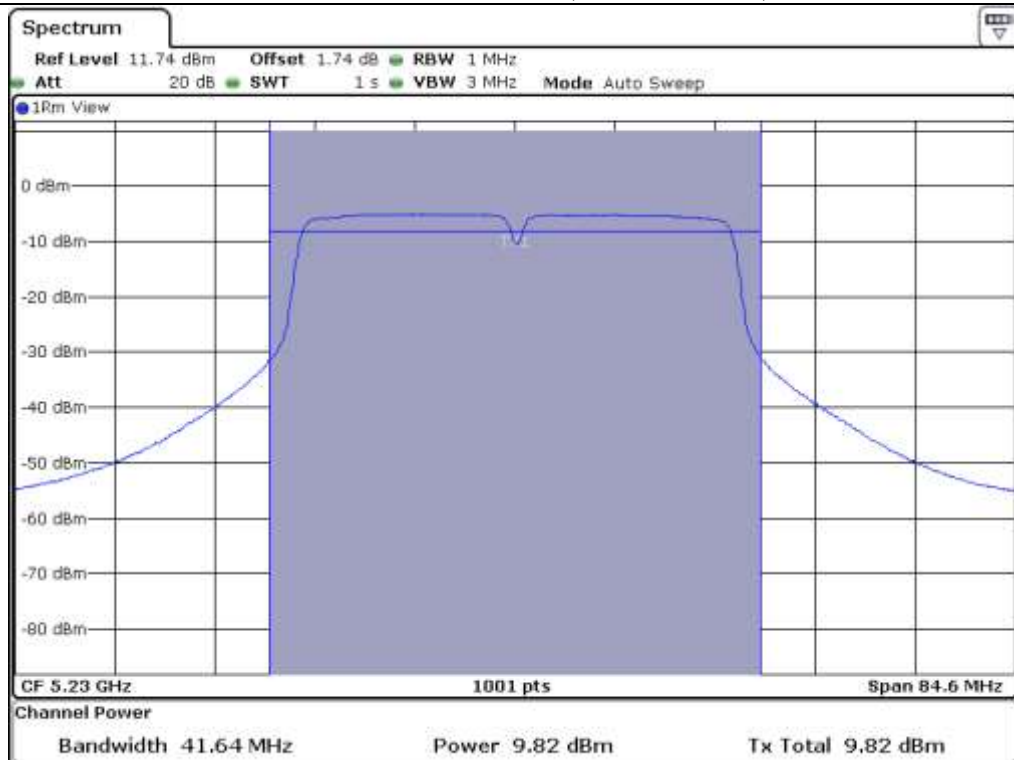
Remark: See next page for measurement data.



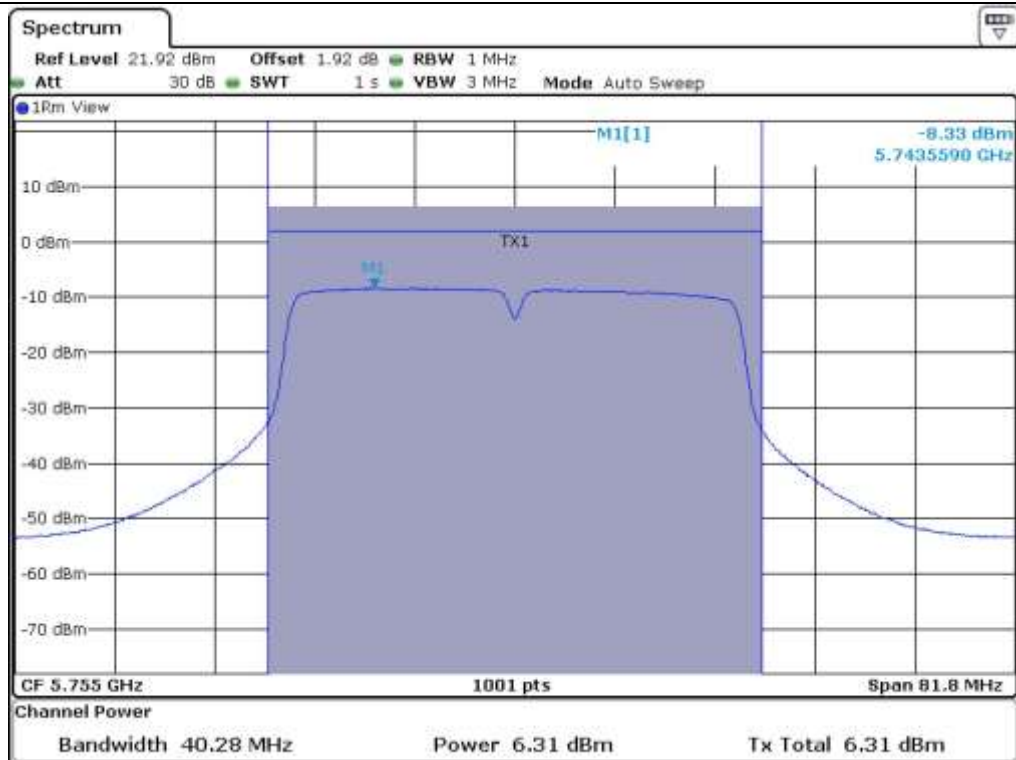
 Tested by: Jun-Hui, Lee / Senior Engineer



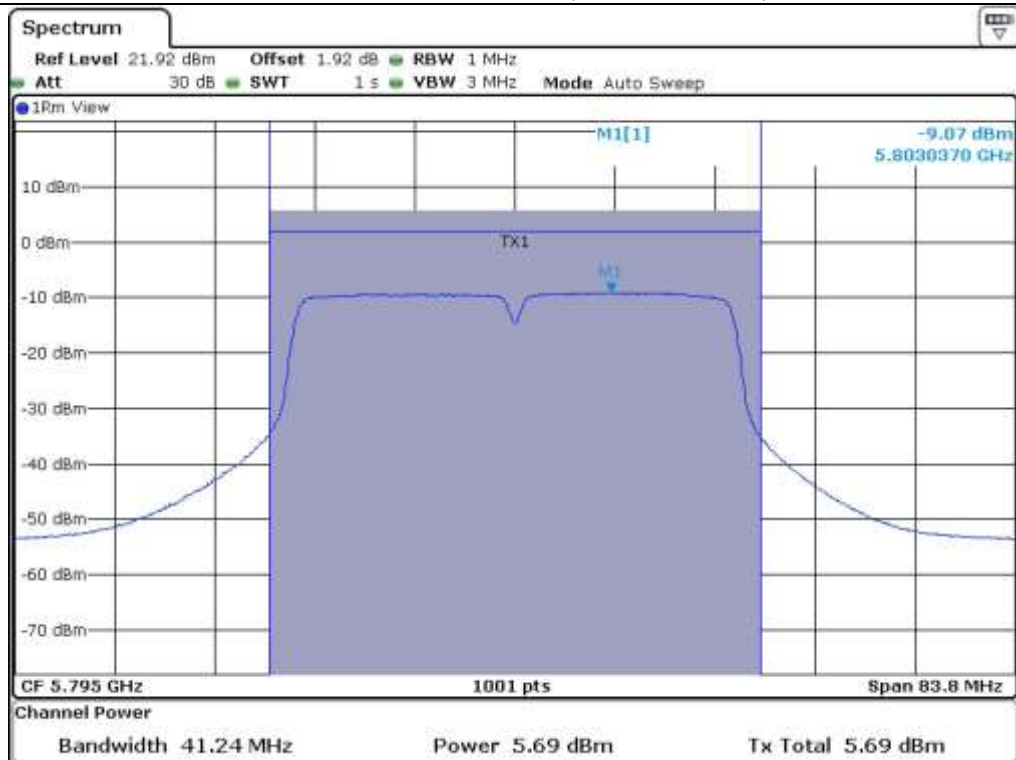
Low Channel @ 5 190 MHz (26 dB Bandwidth)



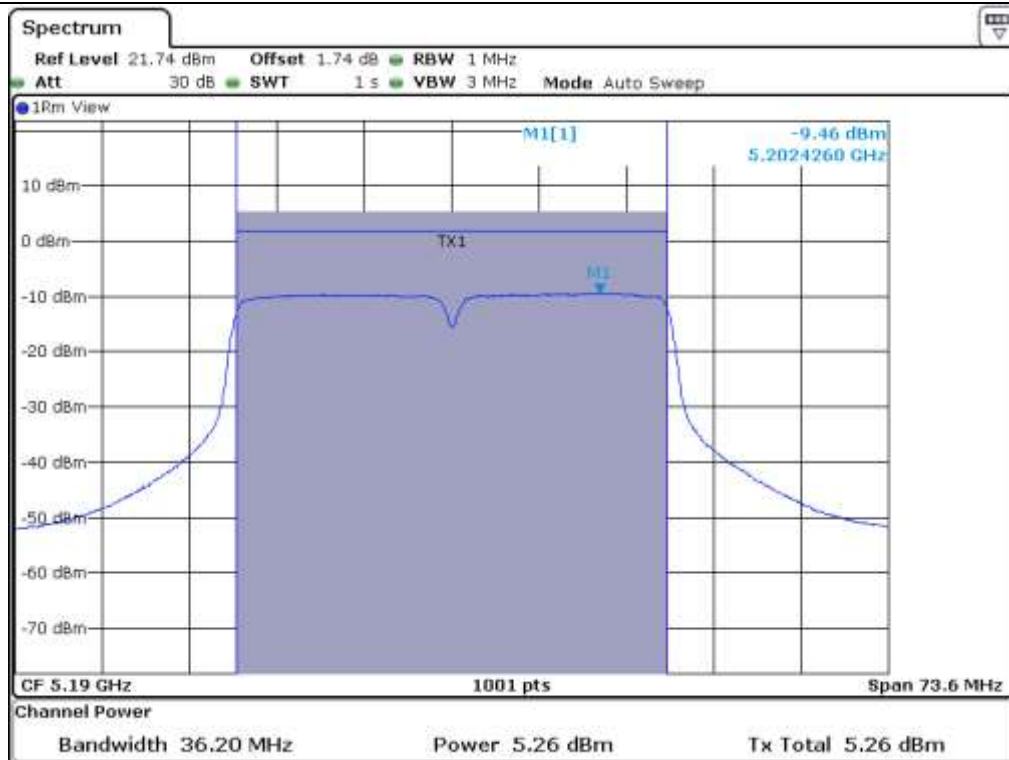
High Channel @ 5 230 MHz (26 dB Bandwidth)



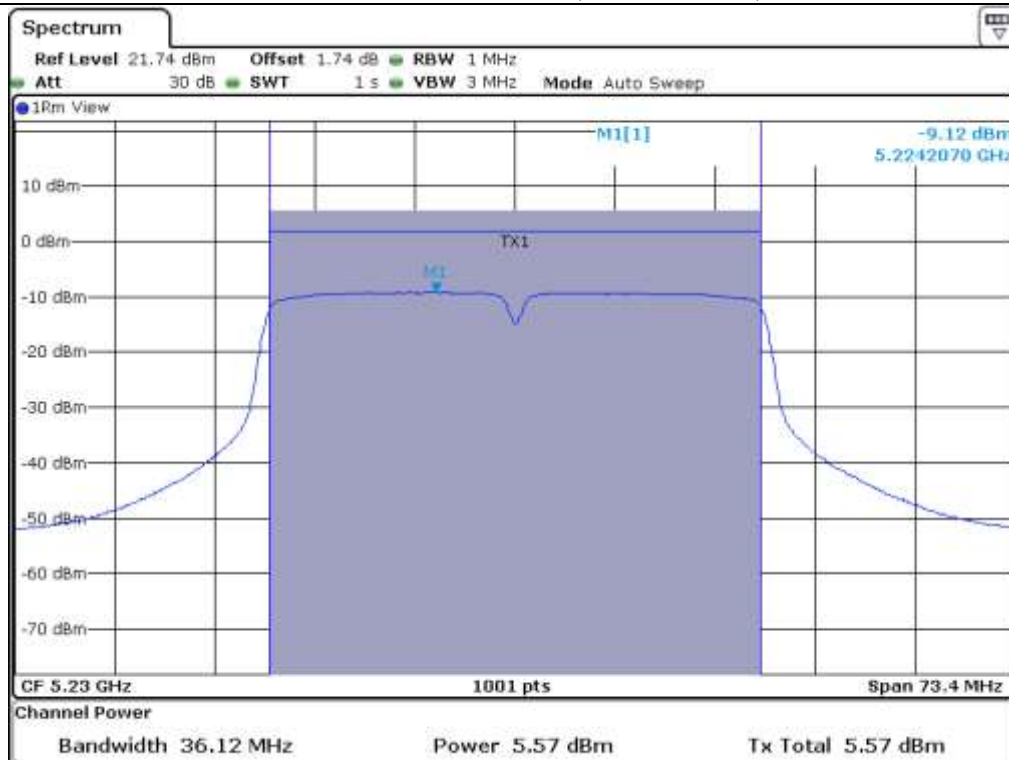
Low Channel @ 5.755 MHz (26 dB Bandwidth)



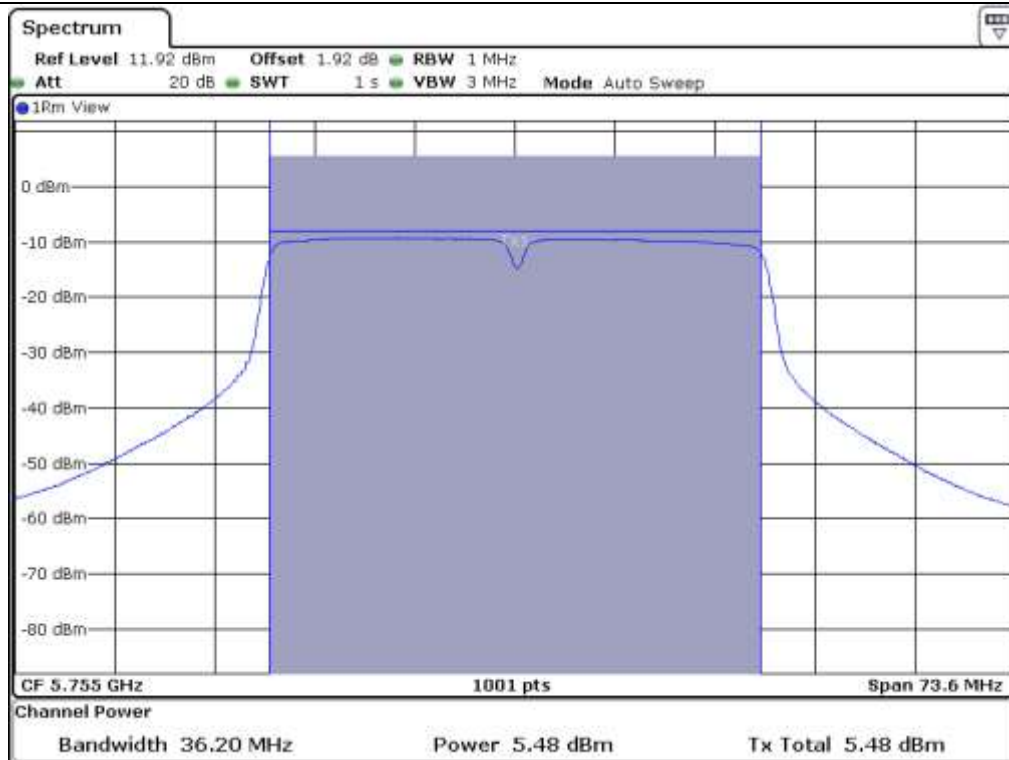
Middle Channel @ 5.795 MHz (26 dB Bandwidth)



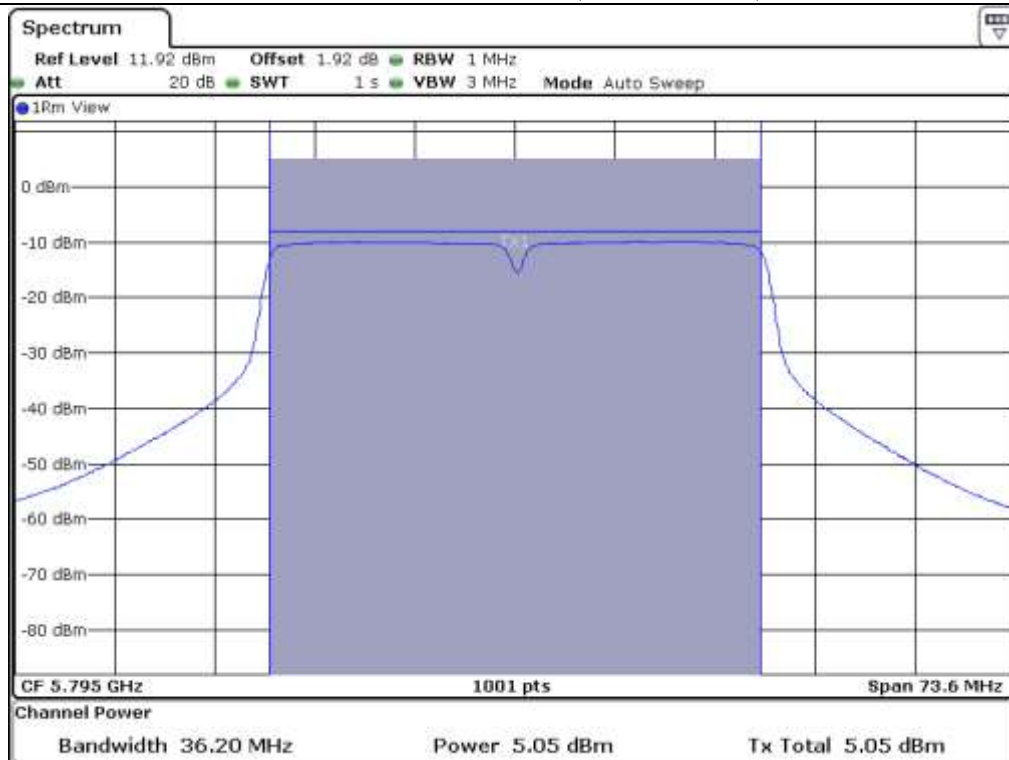
Low Channel @ 5 190 MHz (99 % bandwidth)



High Channel @ 5 230 MHz (99 % bandwidth)



Low Channel @ 5 755 MHz (99 % bandwidth)



High Channel @ 5 795 MHz (99 % bandwidth)

8.6.4 Test data for Multiple transmit

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190	14.43	24.70	10.27
	High	5 230	14.64	24.70	10.06
5 725 ~ 5 850	Low	5 755	11.00	24.81	13.82
	High	5 795	10.68	24.81	14.13

Remark 1 : Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Remark 2 :Calculated Output Power= $10\log (10^{(\text{Antenna1 Output Power}/10)}+10^{(\text{Antenna2 Output Power}/10)})$

-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 190	11.30	36.2	10.01	23.00	1.69	21.31
	High	5 230		36.2	10.38	23.00	1.32	21.68
5 725 ~ 5 825	Low	5 755	11.19	36.2	10.63	24.81	14.19	-
	High	5 795		36.2	10.36	24.81	14.45	-

Remark 1 : Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Remark 2 :Calculated Output Power= $10\log (10^{(\text{Antenna1 Output Power}/10)}+10^{(\text{Antenna2 Output Power}/10)})$



Tested by: Jun-Hui, Lee / Senior Engineer

8.7 Test data for 802.11ac20 RLAN Mode

8.7.1 Test data for Antenna 0

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	21.58	8.81	29.47	20.66
	Middle	5 200	21.78	9.04	29.47	20.43
	High	5 240	21.62	8.92	29.47	20.55
5 725 ~ 5 850	Low	5 745	21.06	8.39	29.59	21.20
	Middle	5 785	21.58	16.30	29.59	13.29
	High	5 825	21.38	7.60	29.59	21.99

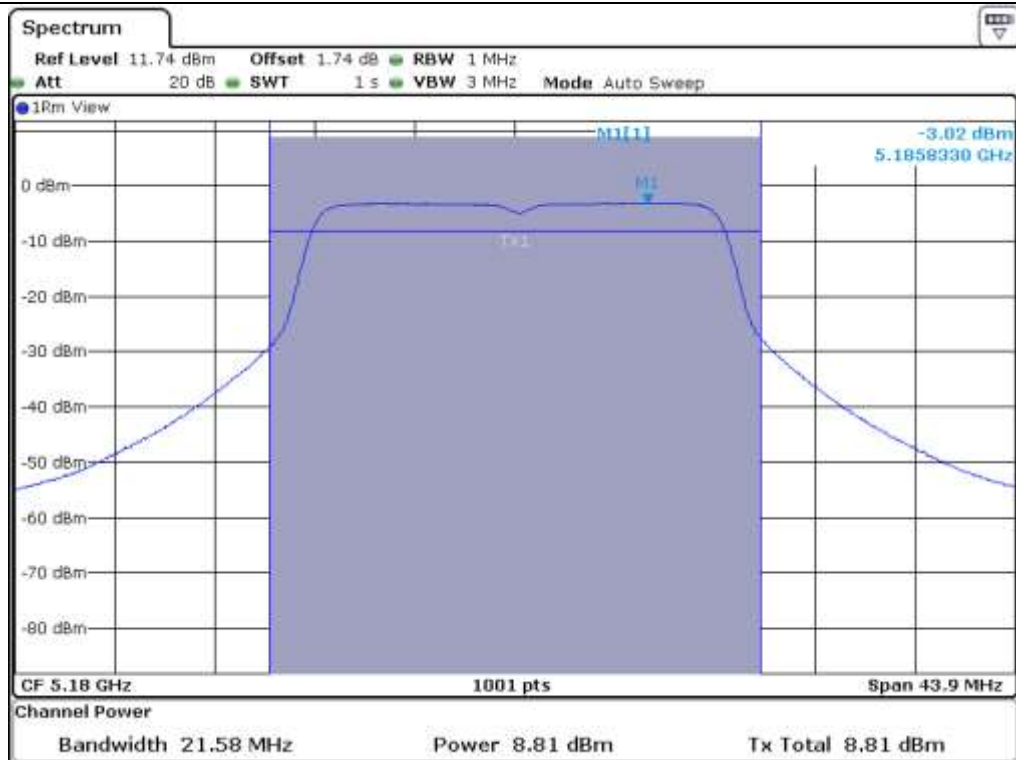
Remark: See next page for measurement data.

-. IC Test data

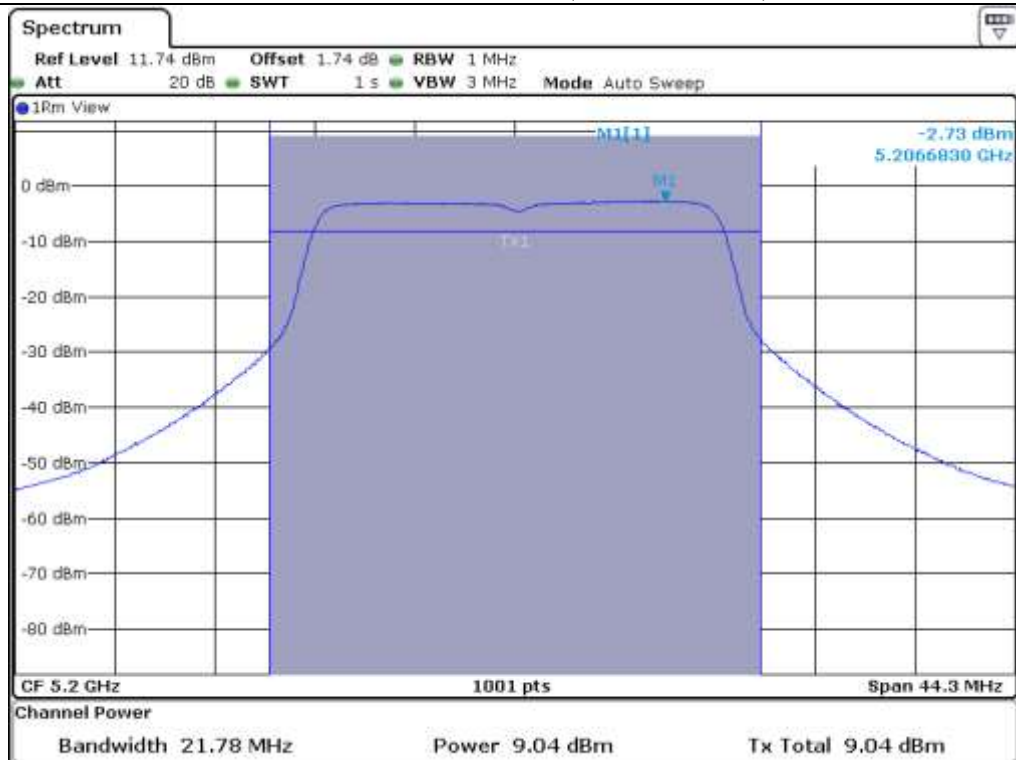
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.53	17.66	4.86	22.47	11.08	11.39
	Middle	5 200		17.66	5.03	22.47	10.91	11.56
	High	5 240		17.66	4.84	22.47	11.10	11.37
5 725 ~ 5 825	Low	5 745	6.42	17.66	8.02	29.59	21.57	-
	Middle	5 785		17.70	16.15	29.59	13.44	-
	High	5 825		17.66	8.25	29.59	21.34	-

Remark: See next page for measurement data.

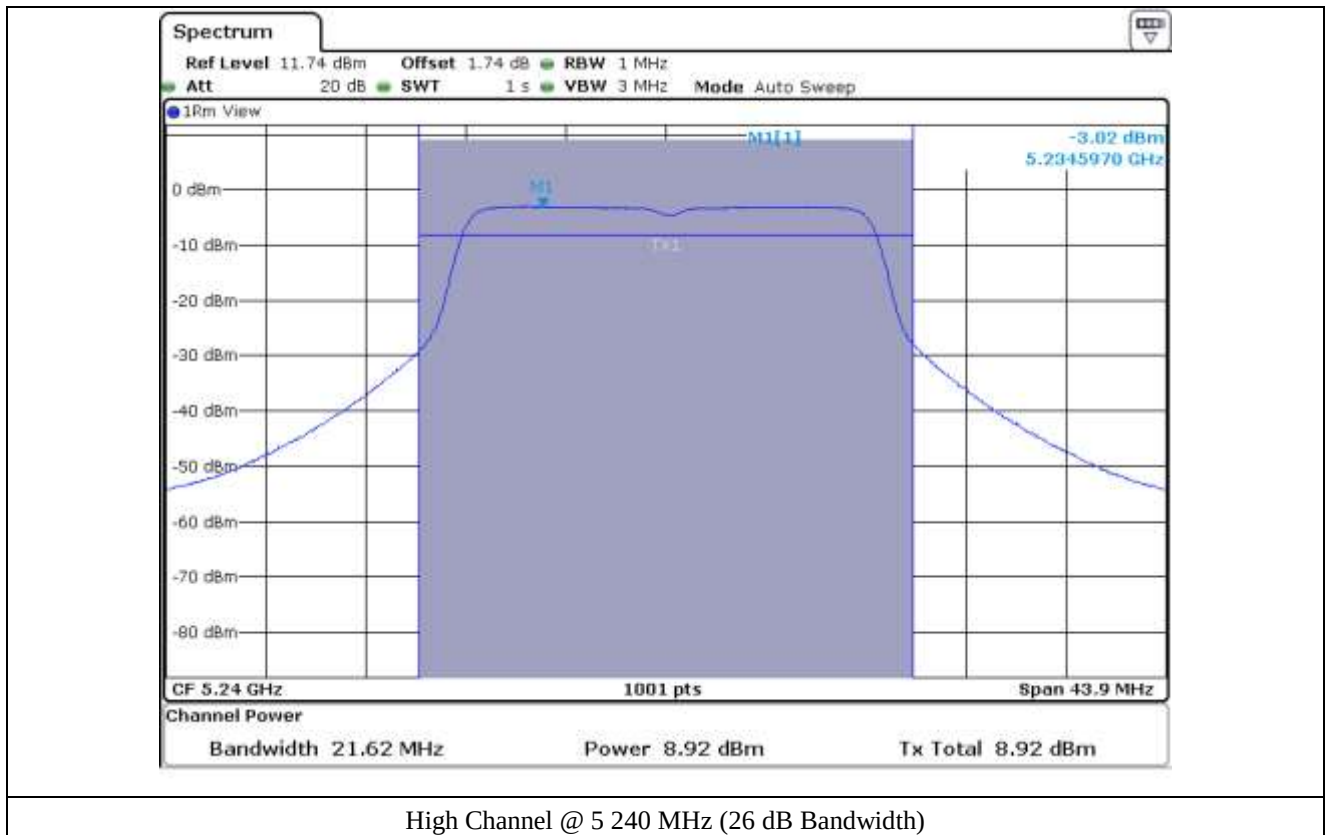
Tested by: Jun-Hui, Lee / Senior Engineer

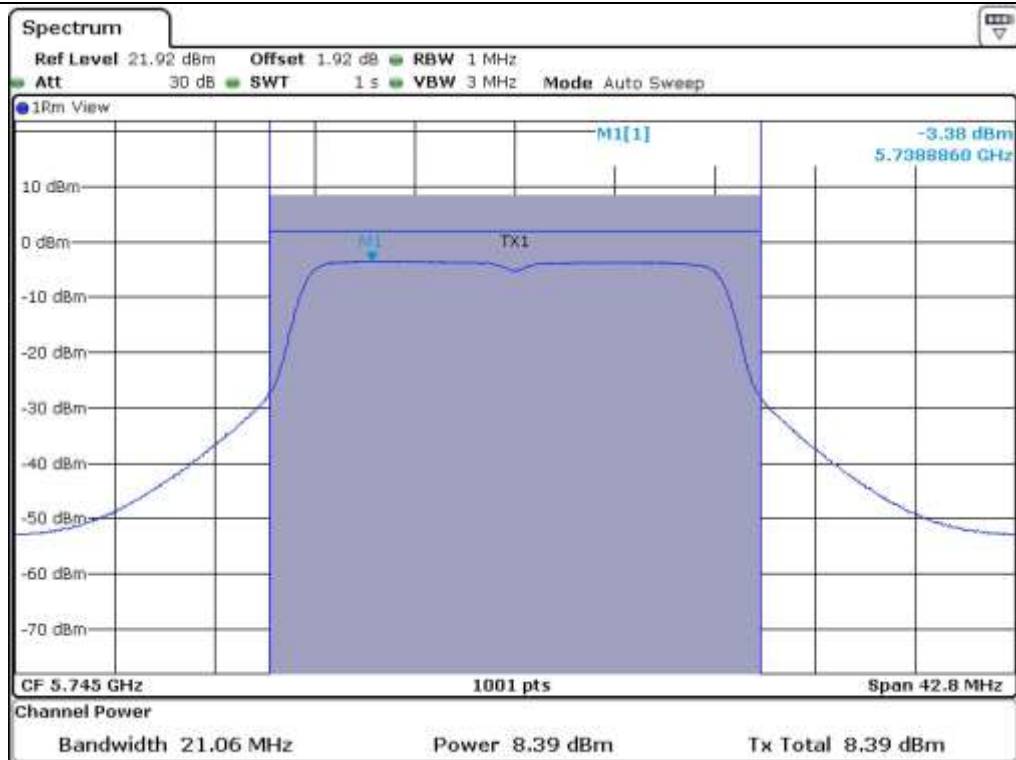


Low Channel @ 5 180 MHz (26 dB Bandwidth)

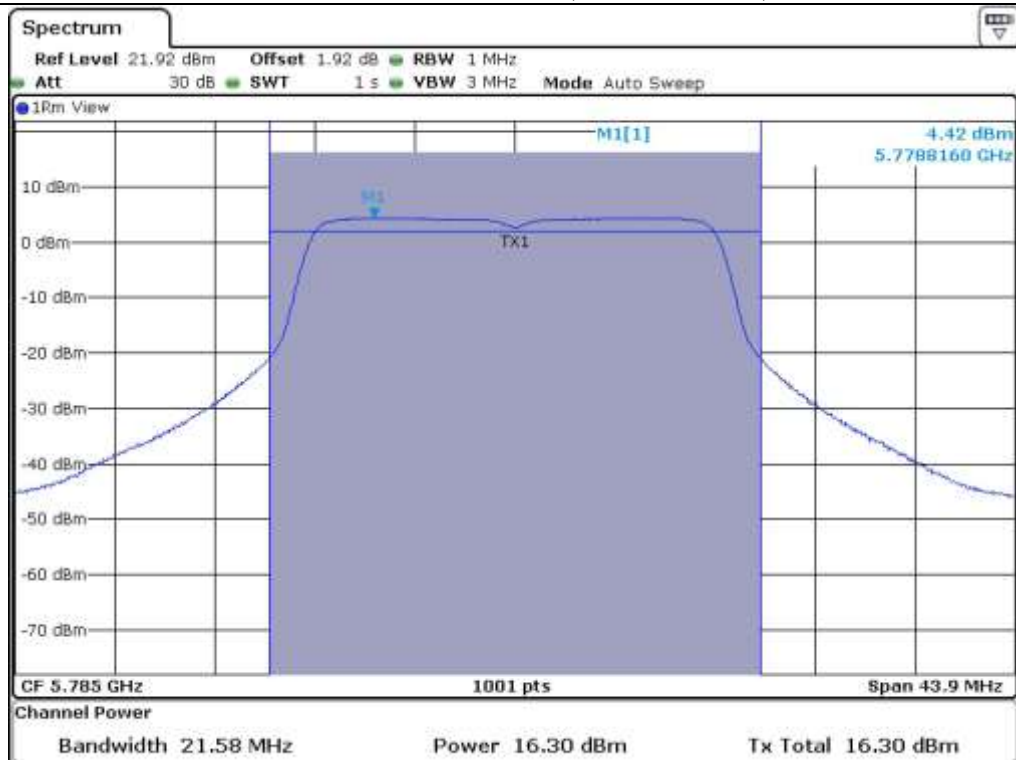


Middle Channel @ 5 200 MHz (26 dB Bandwidth)

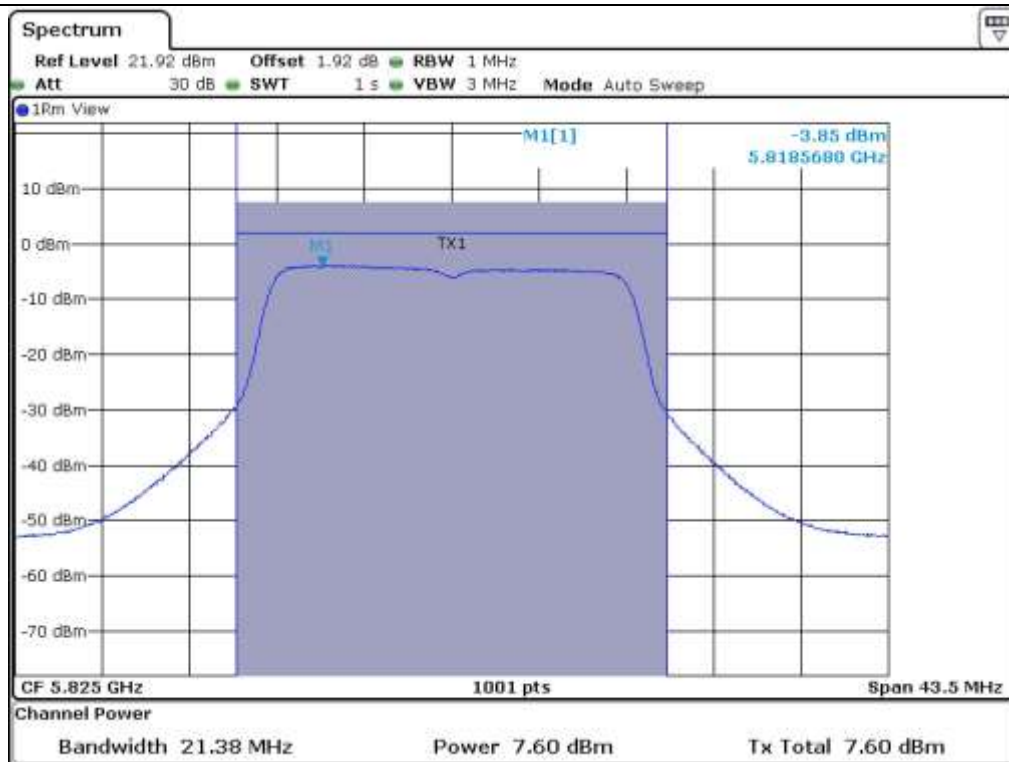




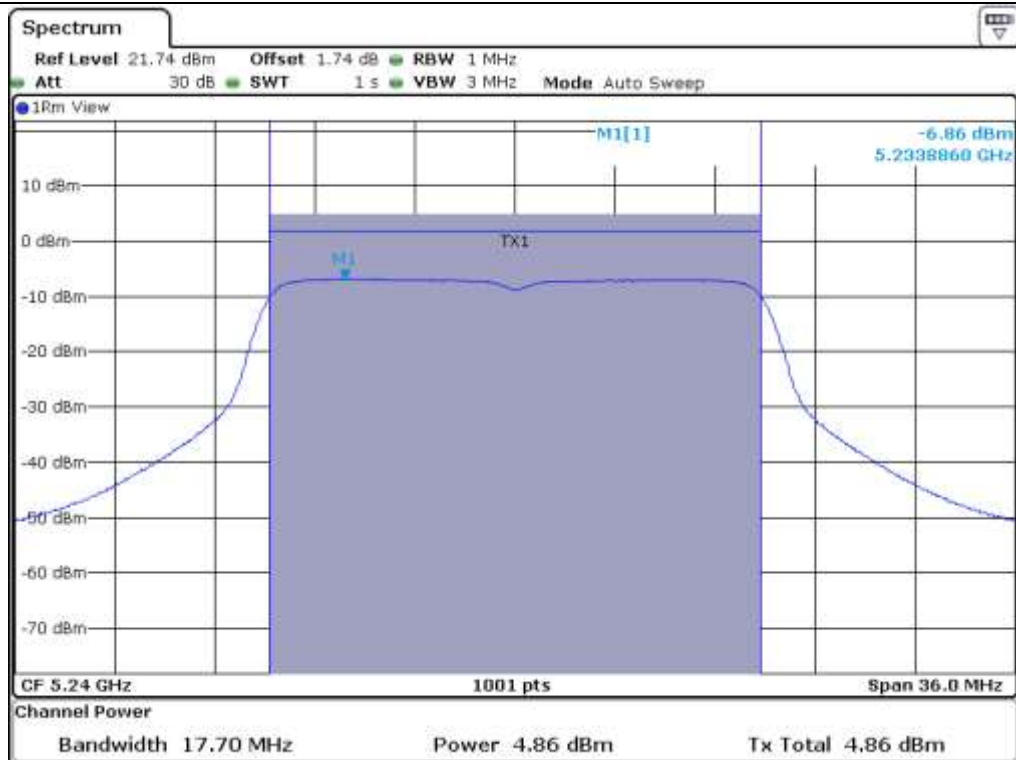
Low Channel @ 5.745 MHz (26 dB Bandwidth)



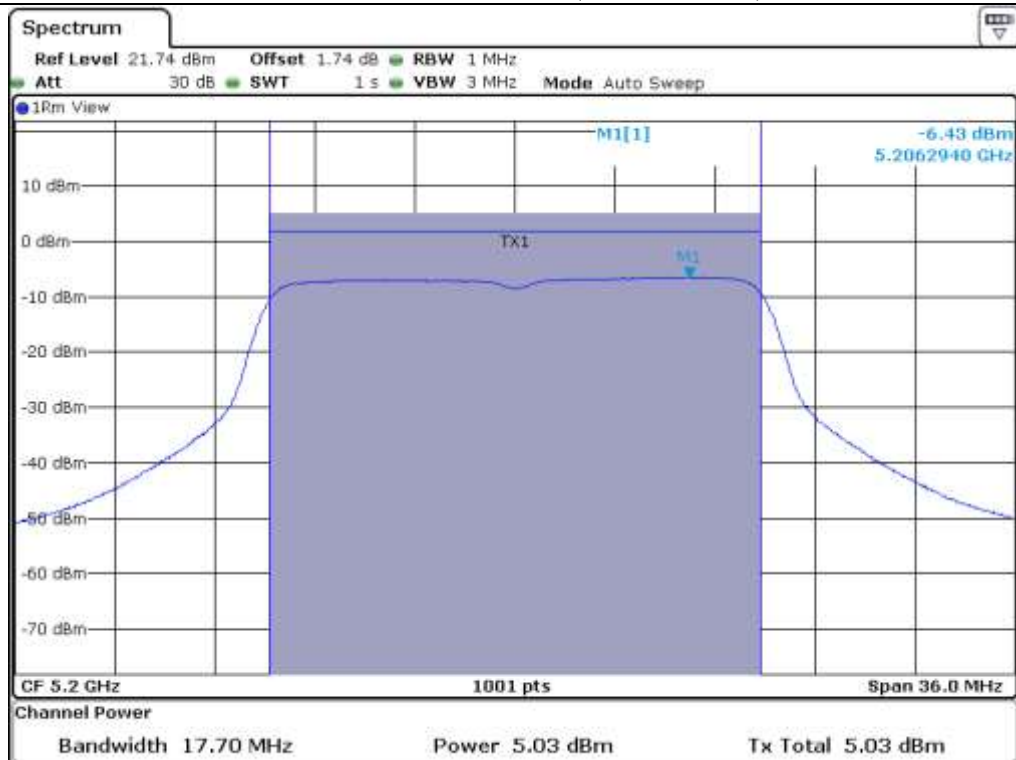
Middle Channel @ 5.785 MHz (26 dB Bandwidth)



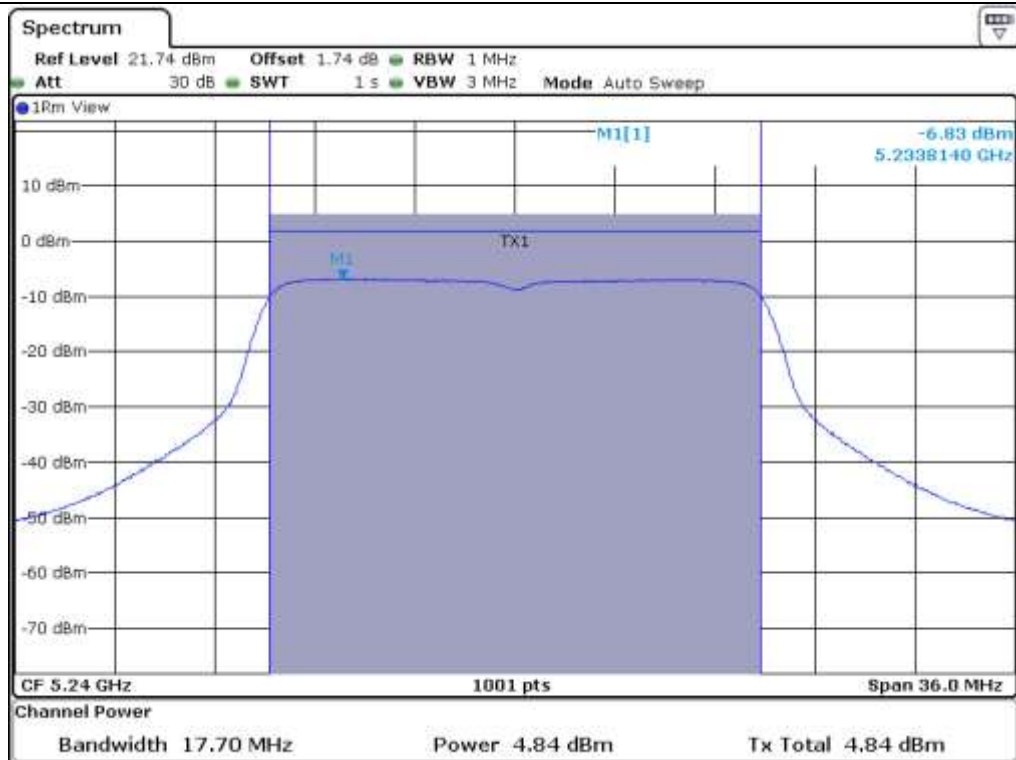
High Channel @ 5 825 MHz (26 dB Bandwidth)



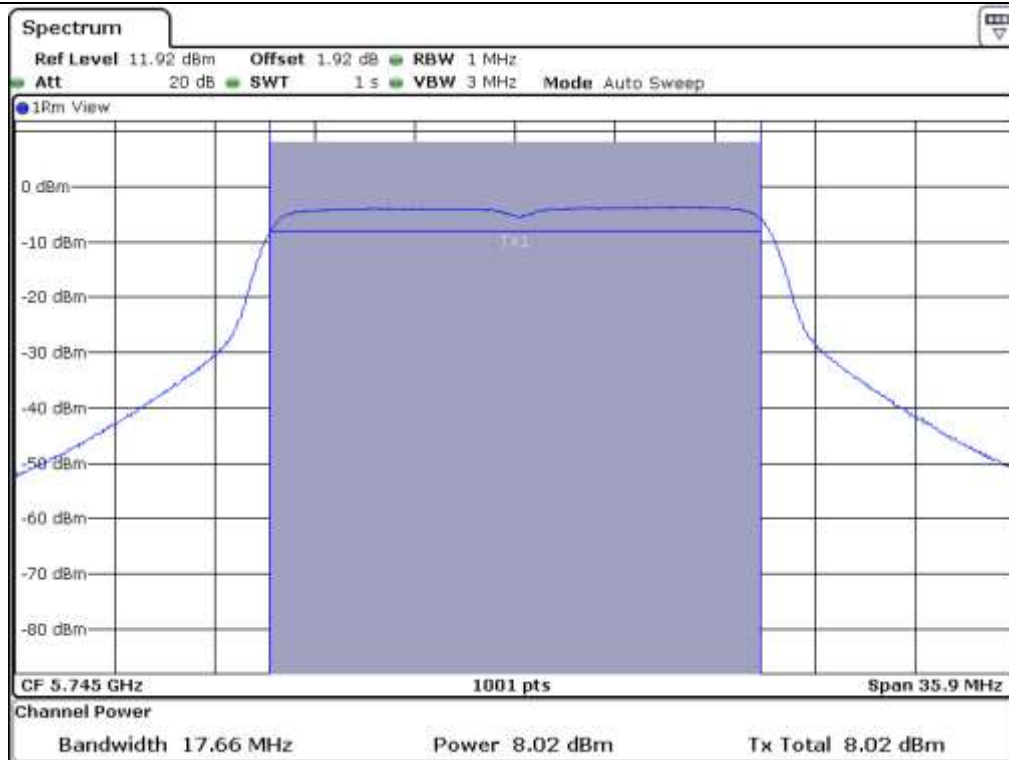
Low Channel @ 5 180 MHz (99 % bandwidth)



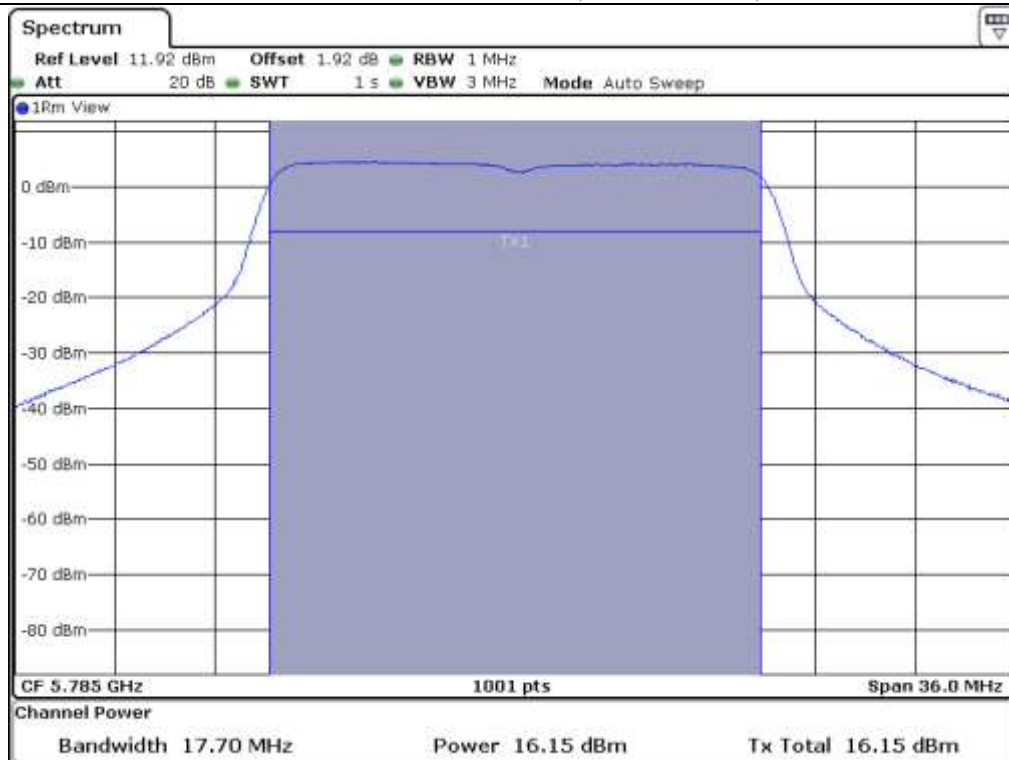
Middle Channel @ 5 200 MHz (99 % bandwidth)



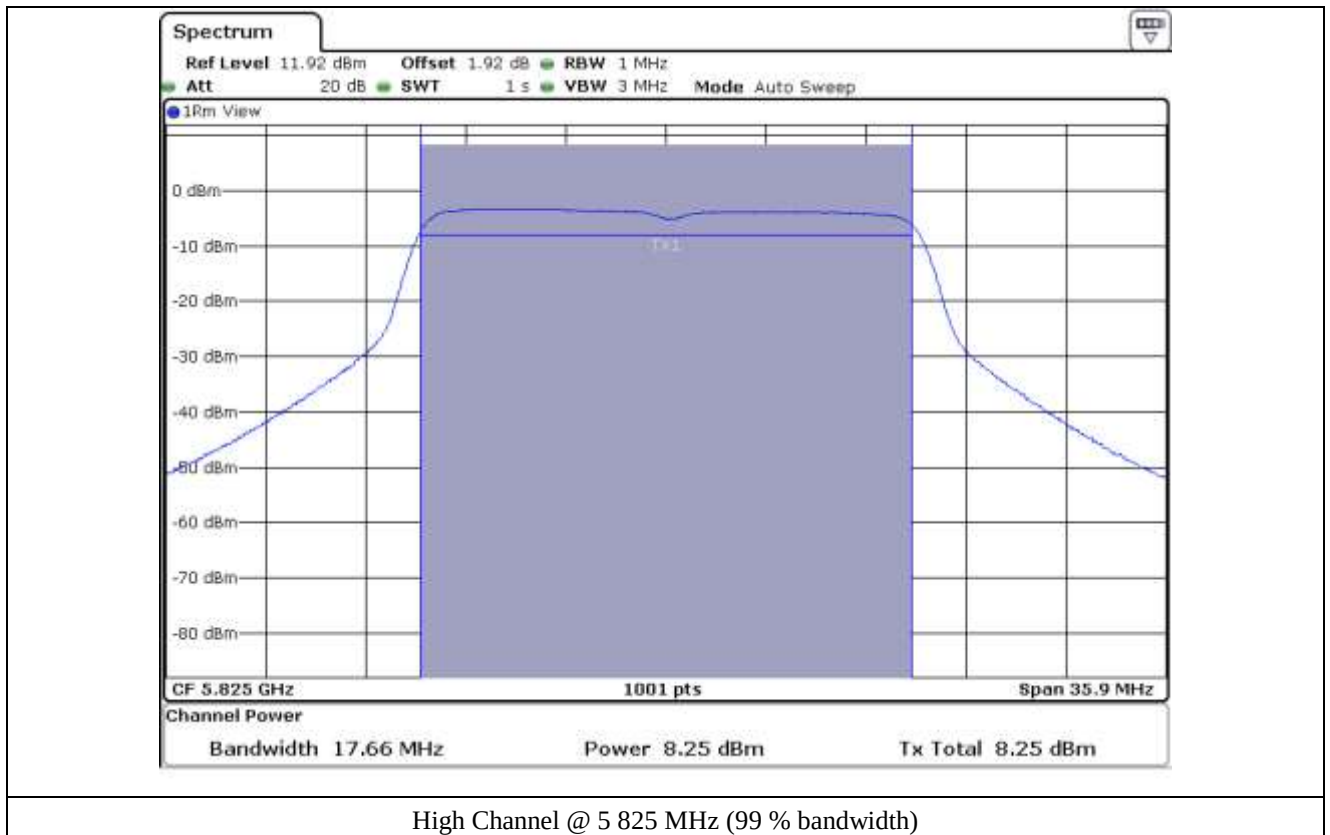
High Channel @ 5 240 MHz (99 % bandwidth)



Low Channel @ 5.745 MHz (99 % bandwidth)



Middle Channel @ 5.785 MHz (99 % bandwidth)



8.7.2 Test data for Antenna 1

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	22.18	8.50	29.47	20.97
	Middle	5 200	21.98	8.49	29.47	20.98
	High	5 240	22.06	8.69	29.47	20.78
5 725 ~ 5 850	Low	5 745	21.10	8.15	29.59	21.44
	Middle	5 785	21.38	16.45	29.59	13.14
	High	5 825	21.66	6.61	29.59	22.98

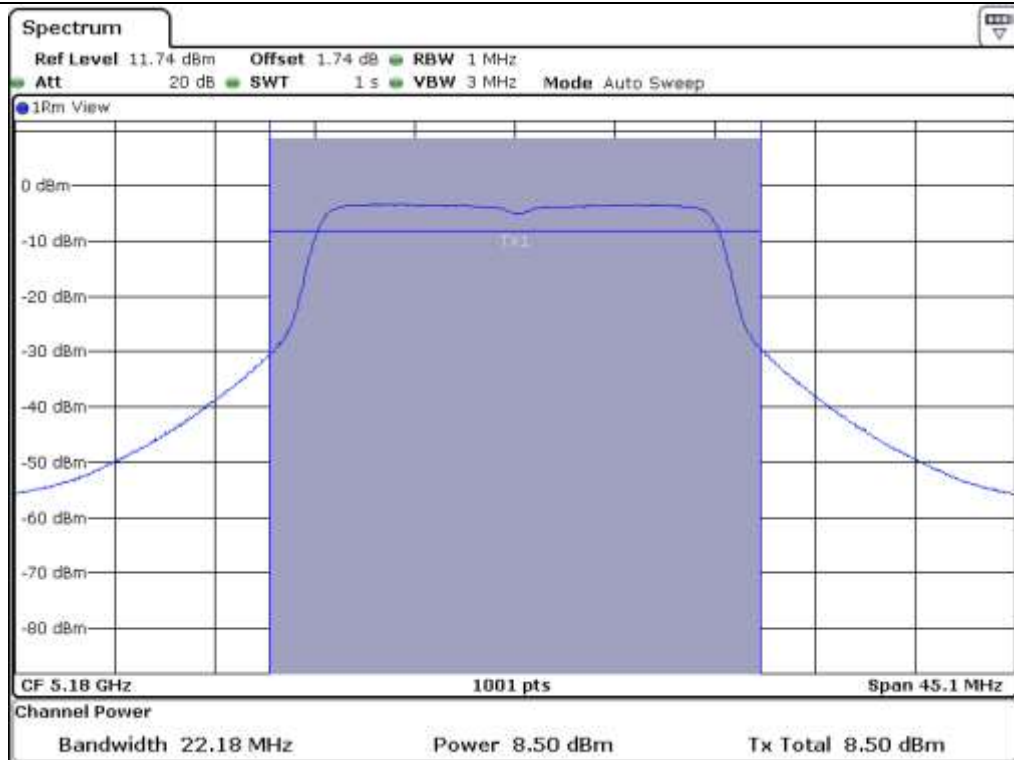
Remark: See next page for measurement data.

-. IC Test data

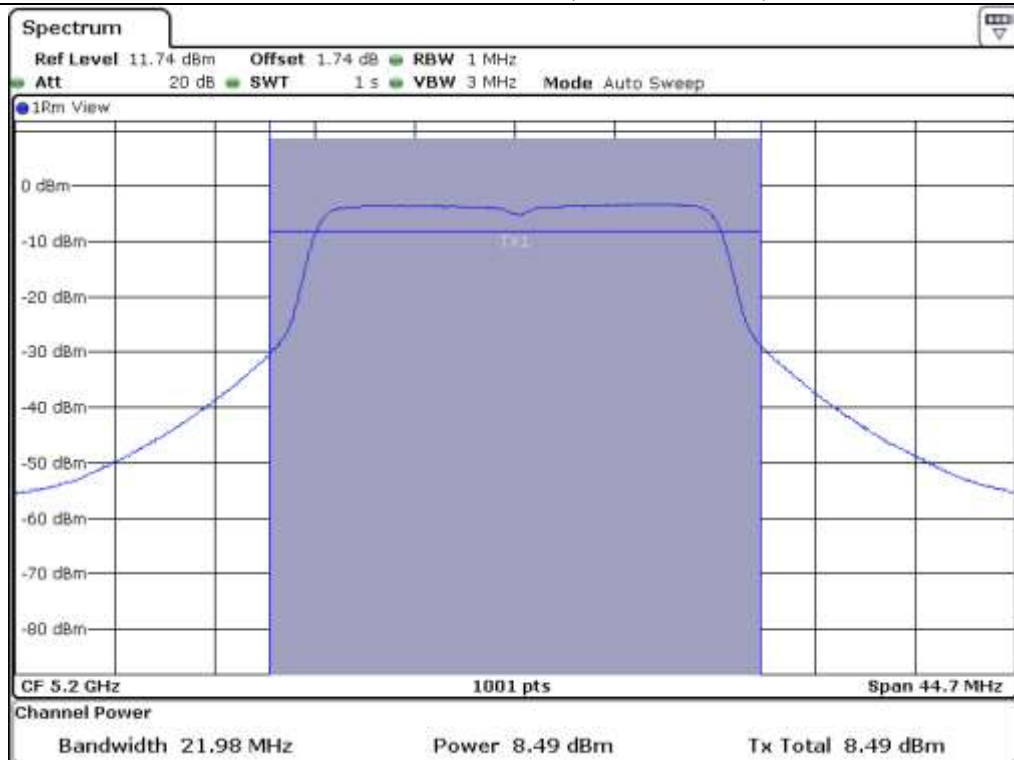
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.53	17.70	5.22	22.47	10.72	11.75
	Middle	5 200		17.70	4.81	22.47	11.13	11.34
	High	5 240		17.66	5.09	22.47	10.85	11.62
5 725 ~ 5 825	Low	5 745	6.42	17.66	6.83	29.59	22.76	-
	Middle	5 785		17.78	15.74	29.59	13.85	-
	High	5 825		17.66	7.19	29.59	22.40	-

Remark: See next page for measurement data.

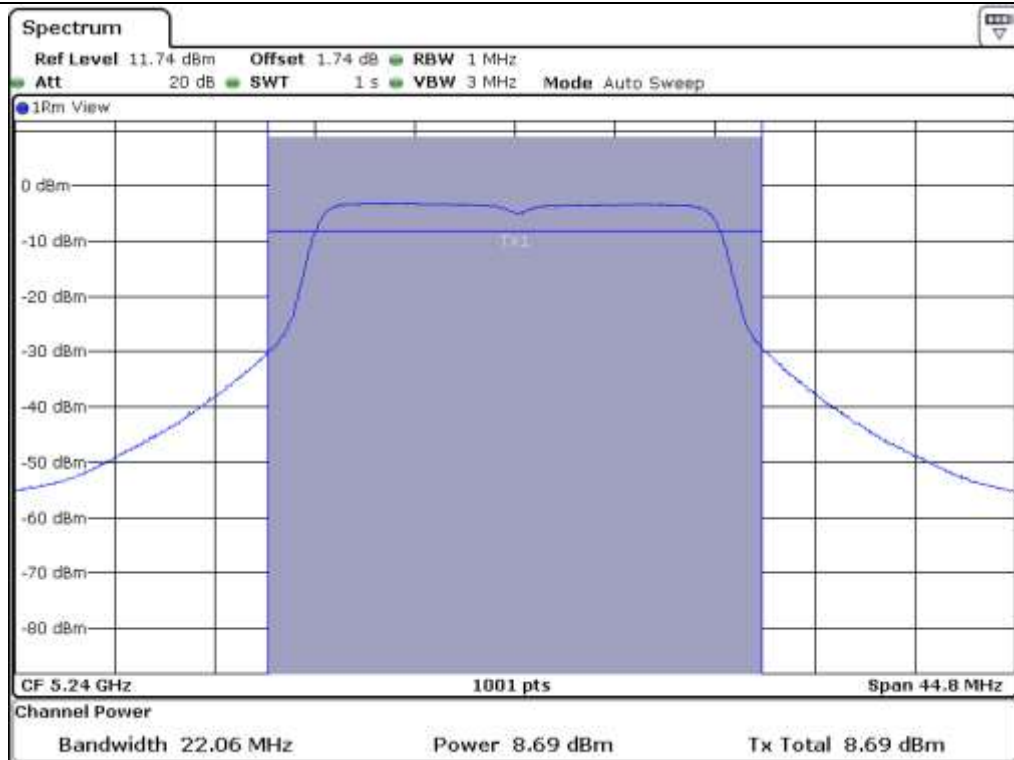
Tested by: Jun-Hui, Lee / Senior Engineer



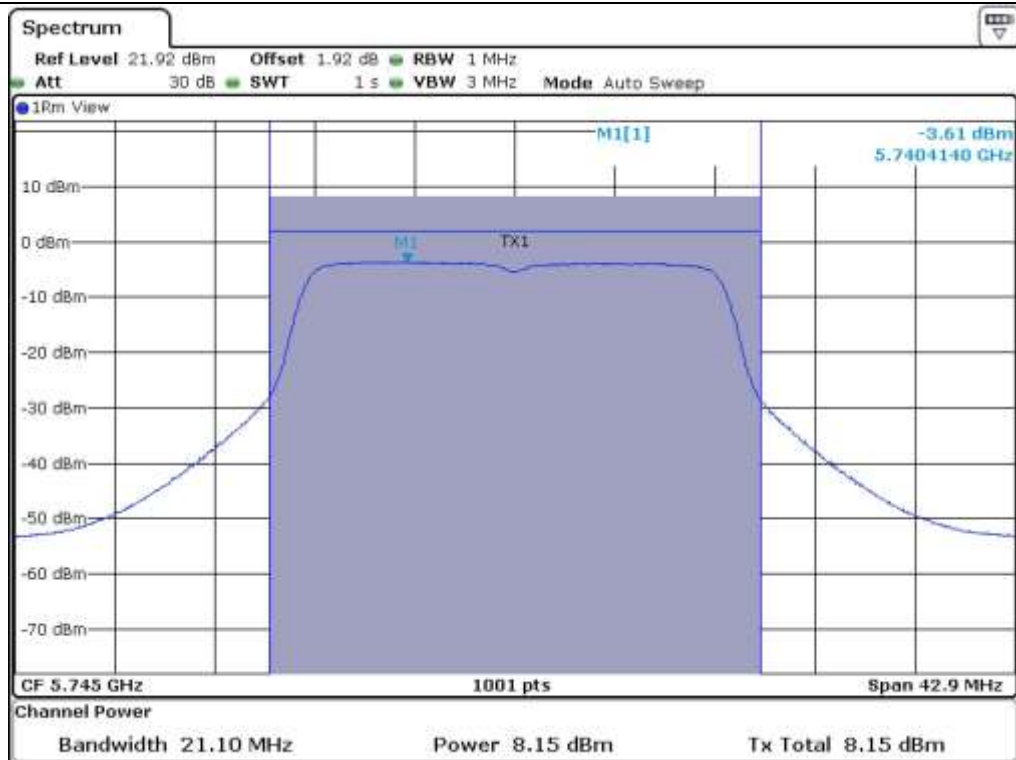
Low Channel @ 5 180 MHz (26 dB Bandwidth)



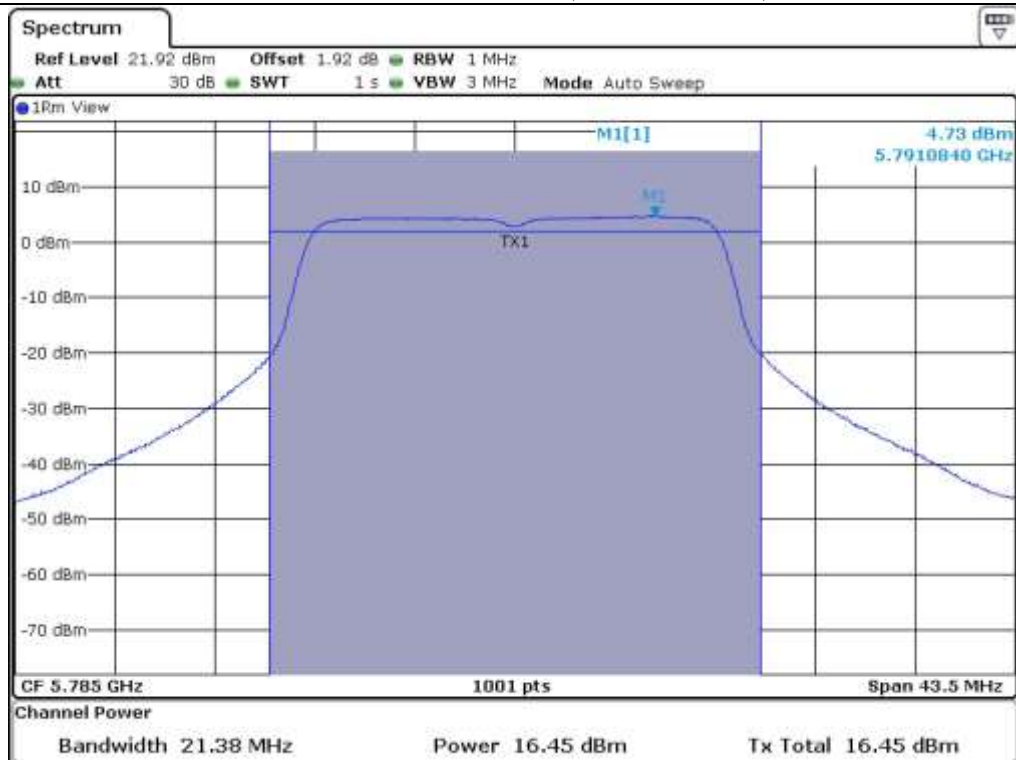
Middle Channel @ 5 200 MHz (26 dB Bandwidth)



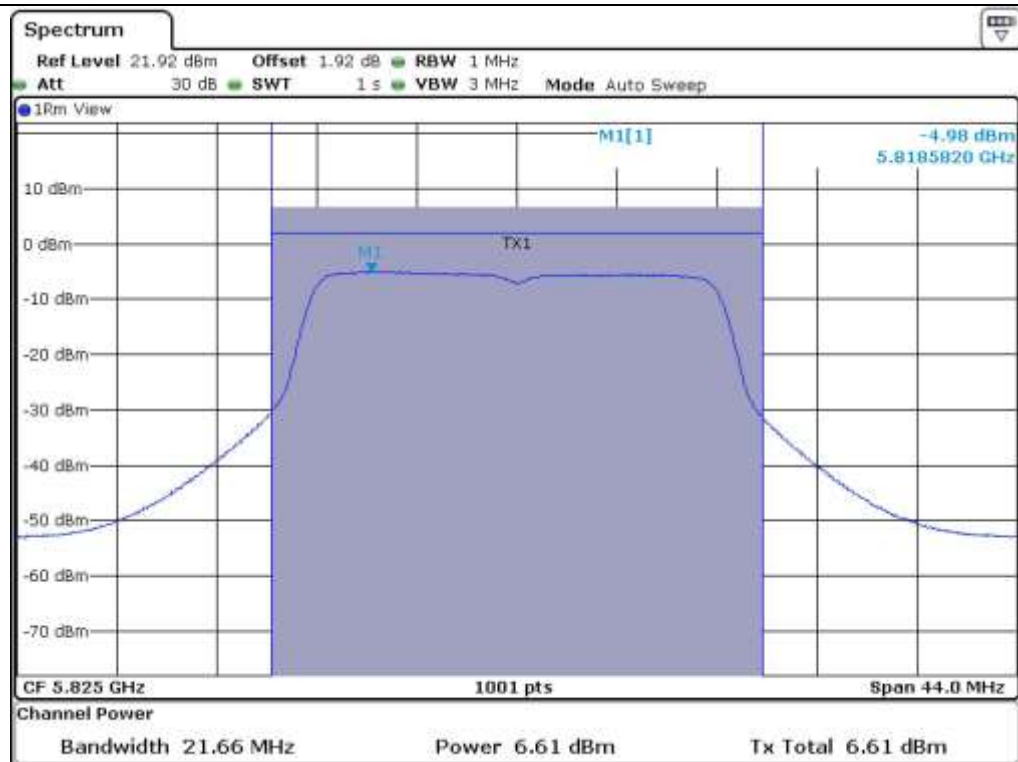
High Channel @ 5 240 MHz (26 dB Bandwidth)



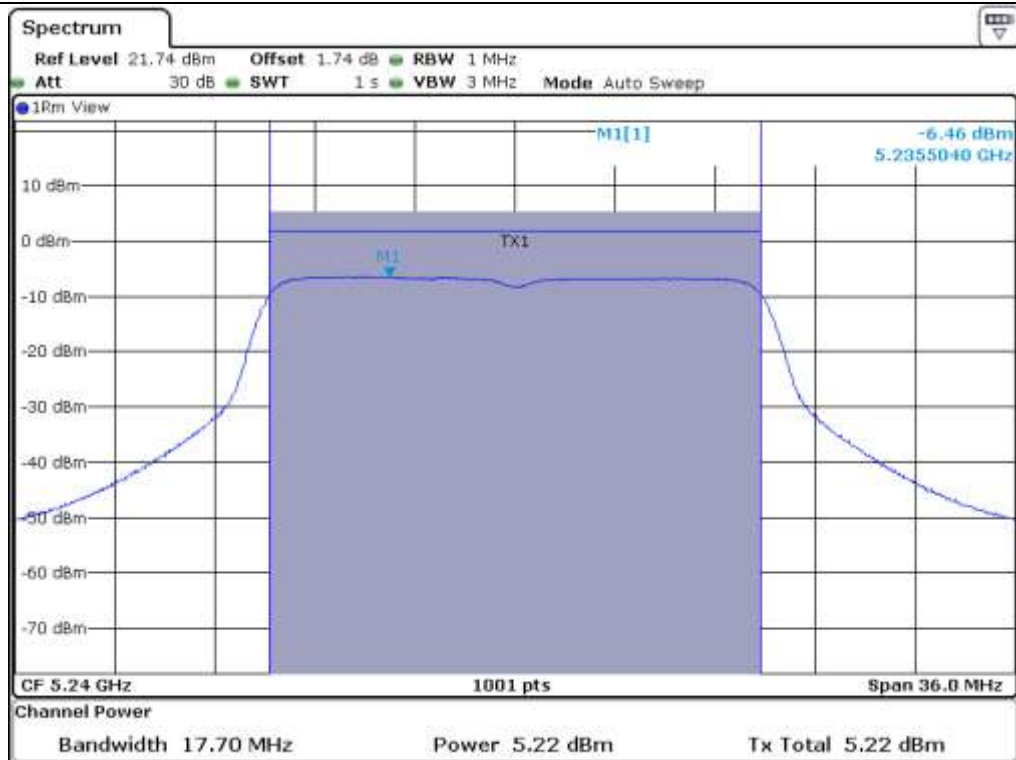
Low Channel @ 5.745 MHz (26 dB Bandwidth)



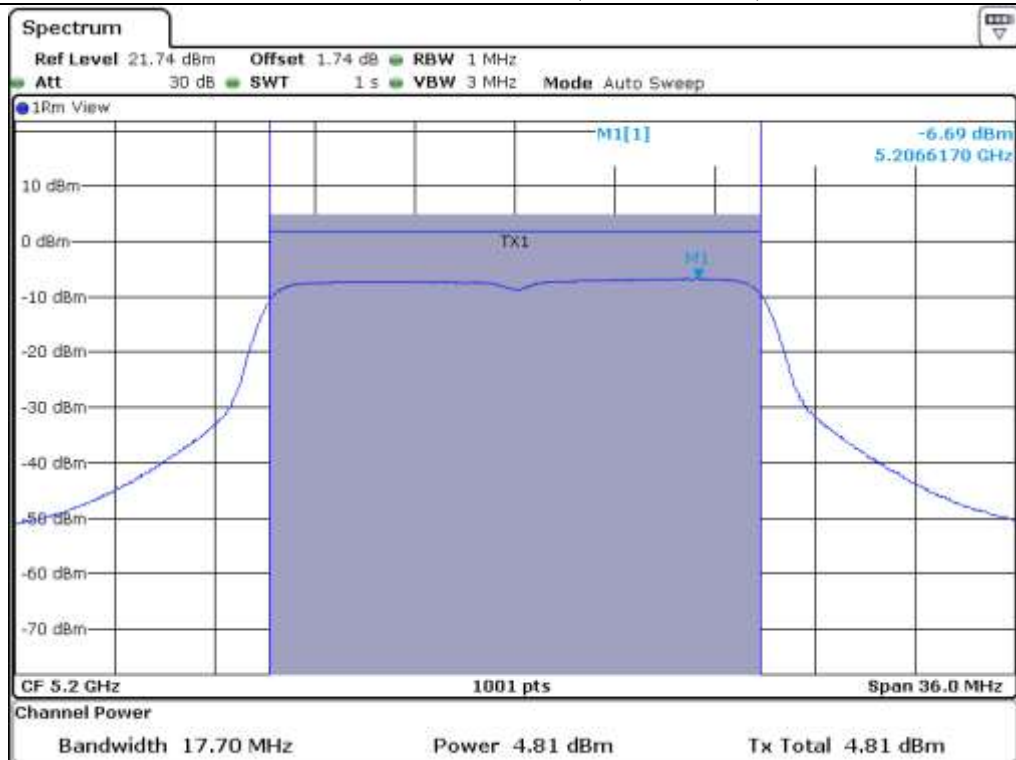
Middle Channel @ 5.785 MHz (26 dB Bandwidth)



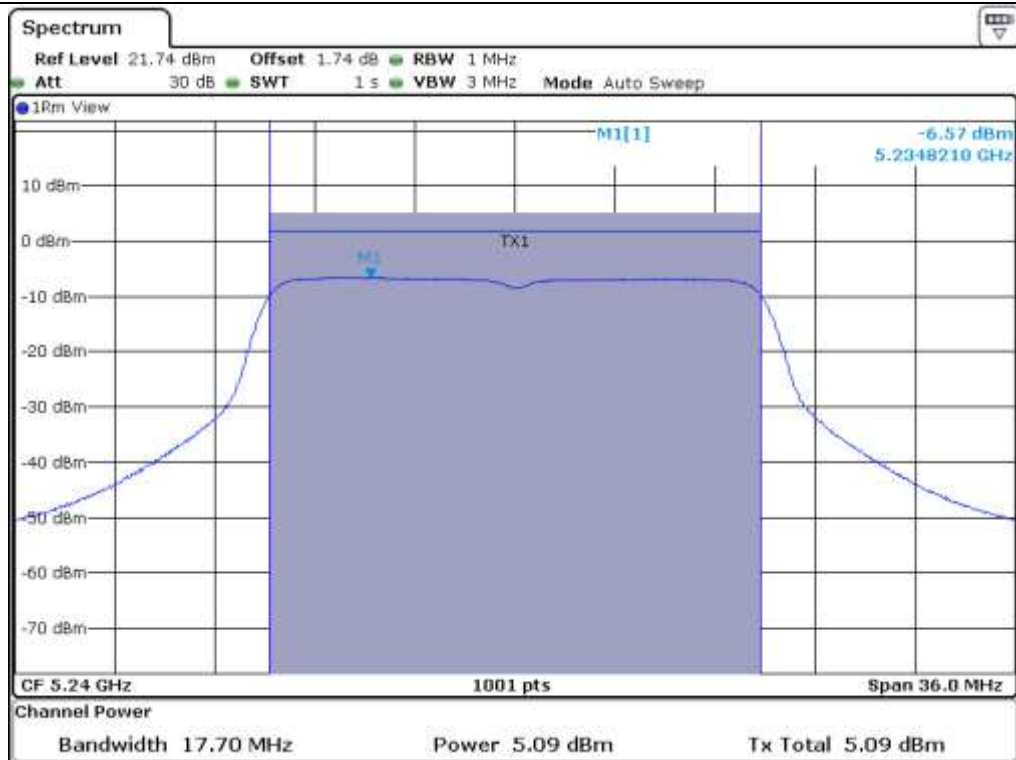
High Channel @ 5 825 MHz (26 dB Bandwidth)



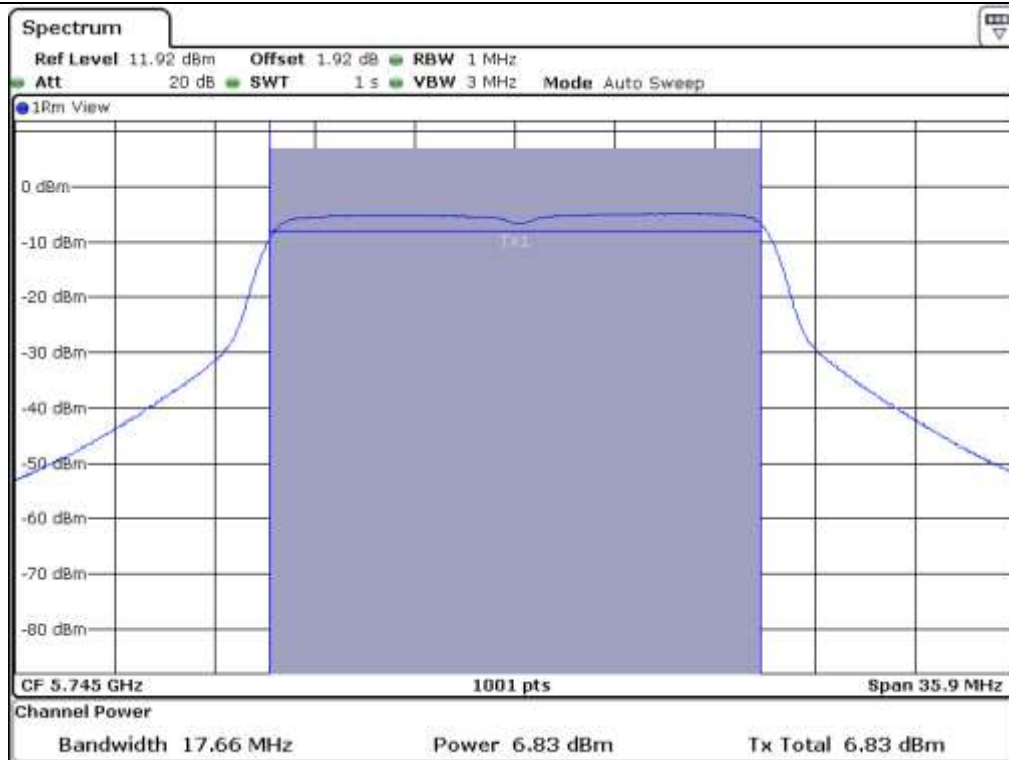
Low Channel @ 5 180 MHz (99 % bandwidth)



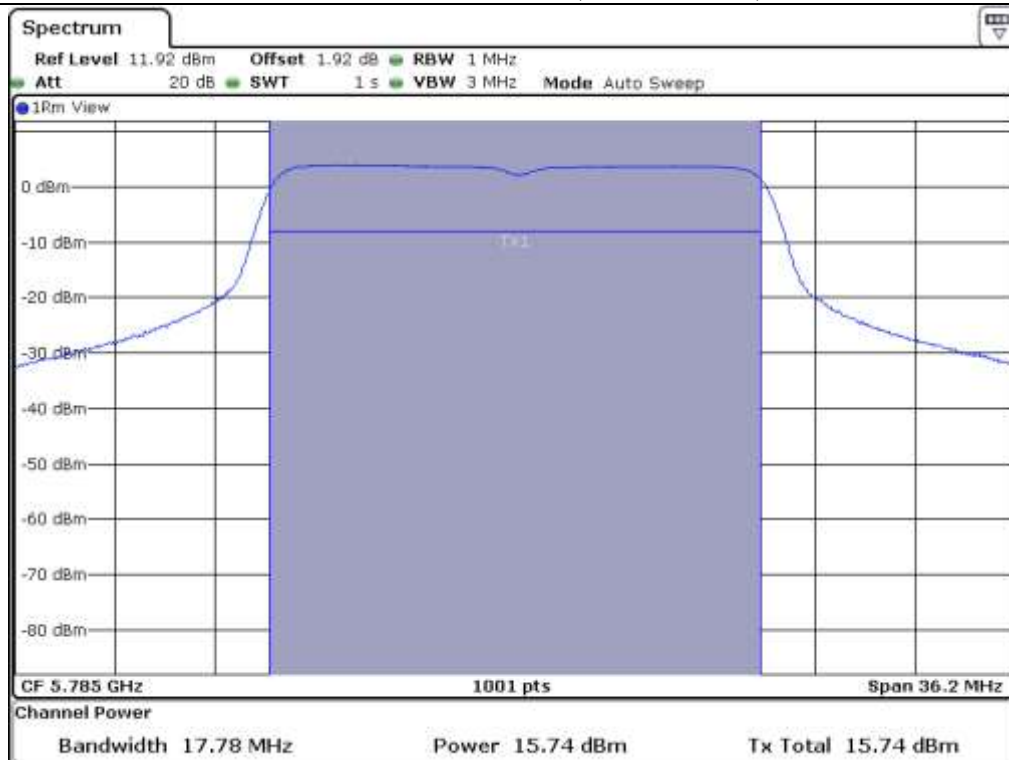
Middle Channel @ 5 200 MHz (99 % bandwidth)



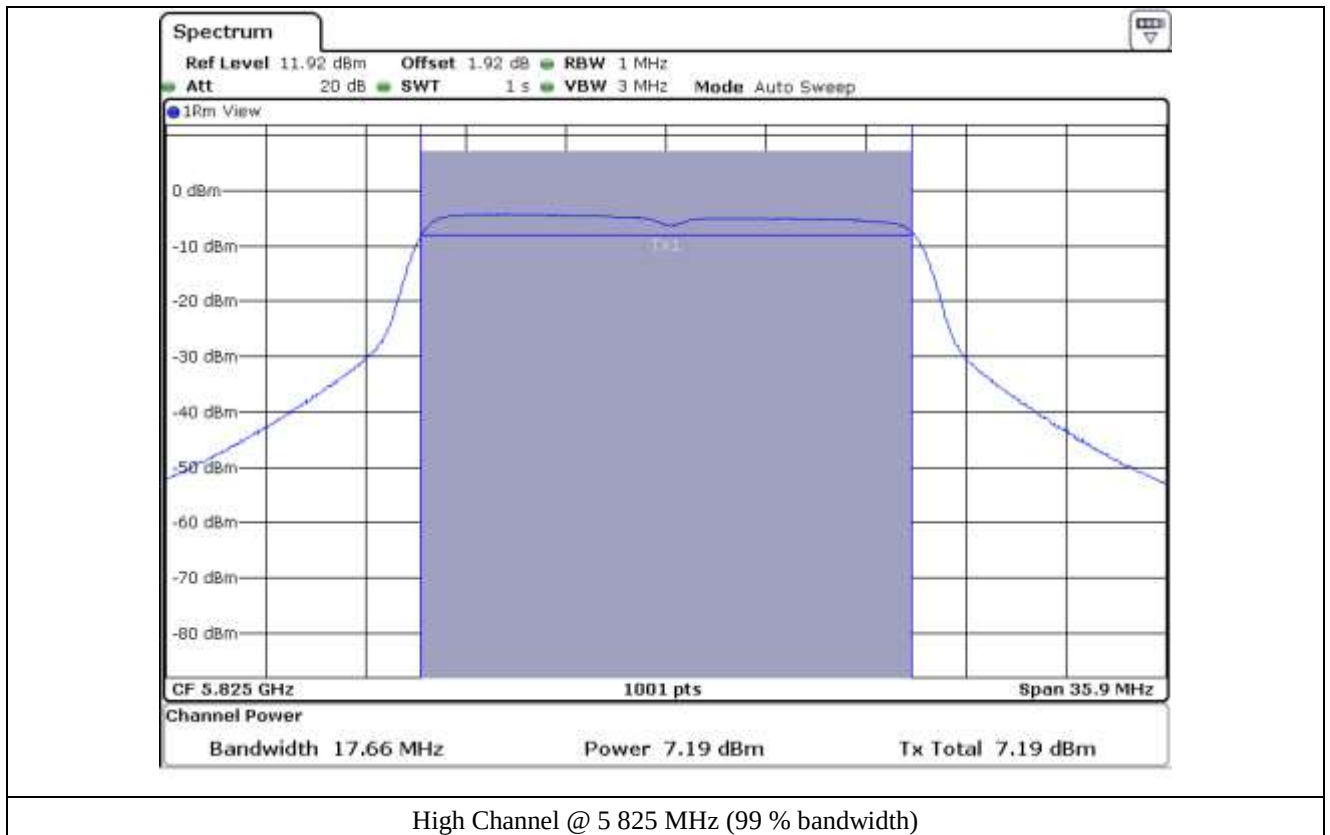
High Channel @ 5 240 MHz (99 % bandwidth)



Low Channel @ 5.745 MHz (99 % bandwidth)



Middle Channel @ 5.785 MHz (99 % bandwidth)



8.7.3 Test data for Antenna 2

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	21.50	8.44	29.47	21.03
	Middle	5 200	21.90	8.47	29.47	21.00
	High	5 240	21.62	8.59	29.47	20.88
5 725 ~ 5 850	Low	5 745	21.58	8.20	29.59	21.39
	Middle	5 785	21.66	15.99	29.59	13.60
	High	5 825	21.50	7.09	29.59	22.50

Remark: See next page for measurement data.

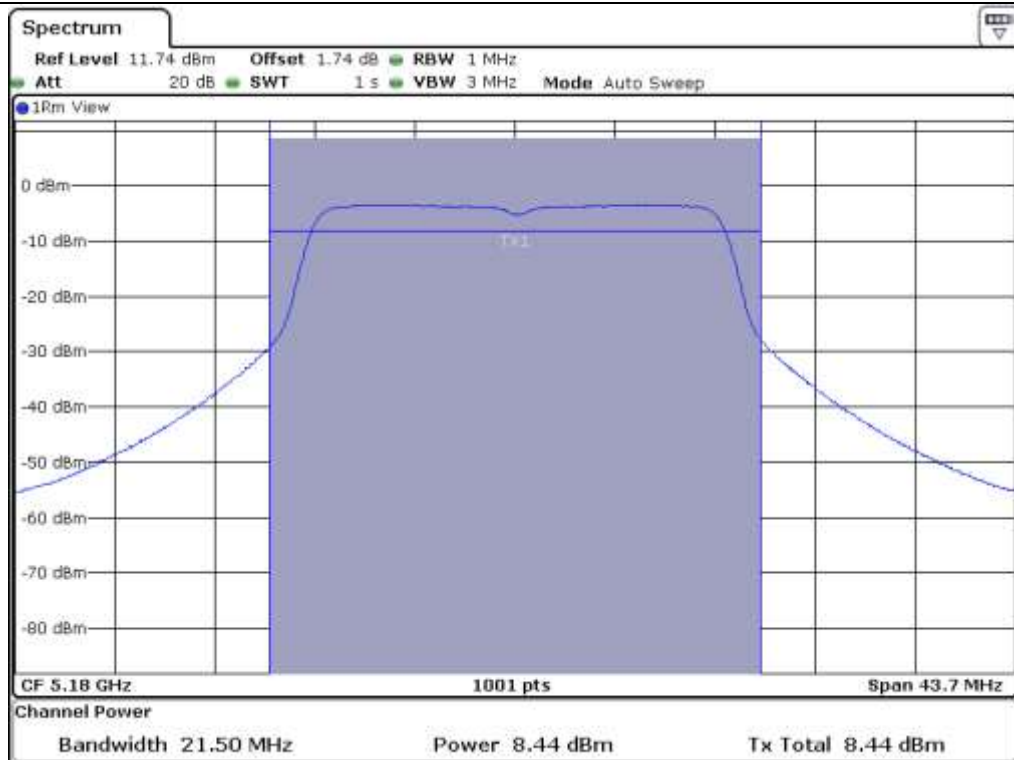
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.53	17.70	4.92	22.47	11.02	11.45
	Middle	5 200		17.70	4.86	22.47	11.08	11.39
	High	5 240		17.70	4.89	22.47	11.05	11.42
5 725 ~ 5 825	Low	5 745	6.42	17.66	7.33	29.59	22.26	-
	Middle	5 785		17.70	15.07	29.59	14.52	-
	High	5 825		17.66	7.50	29.59	22.09	-

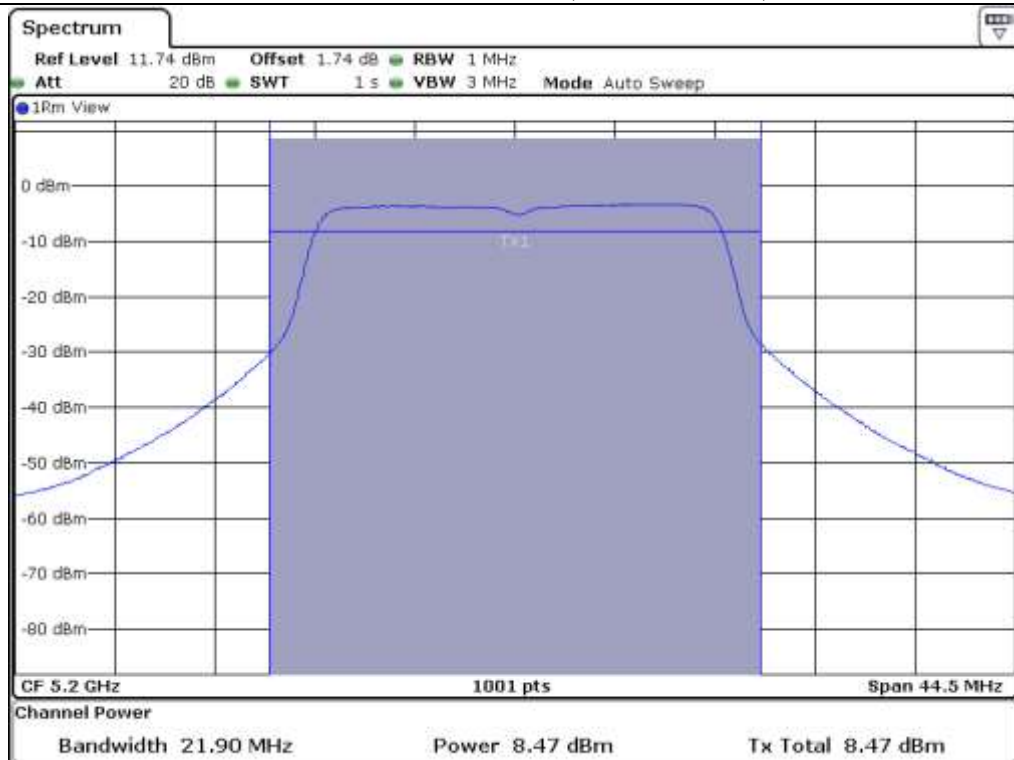
Remark: See next page for measurement data.



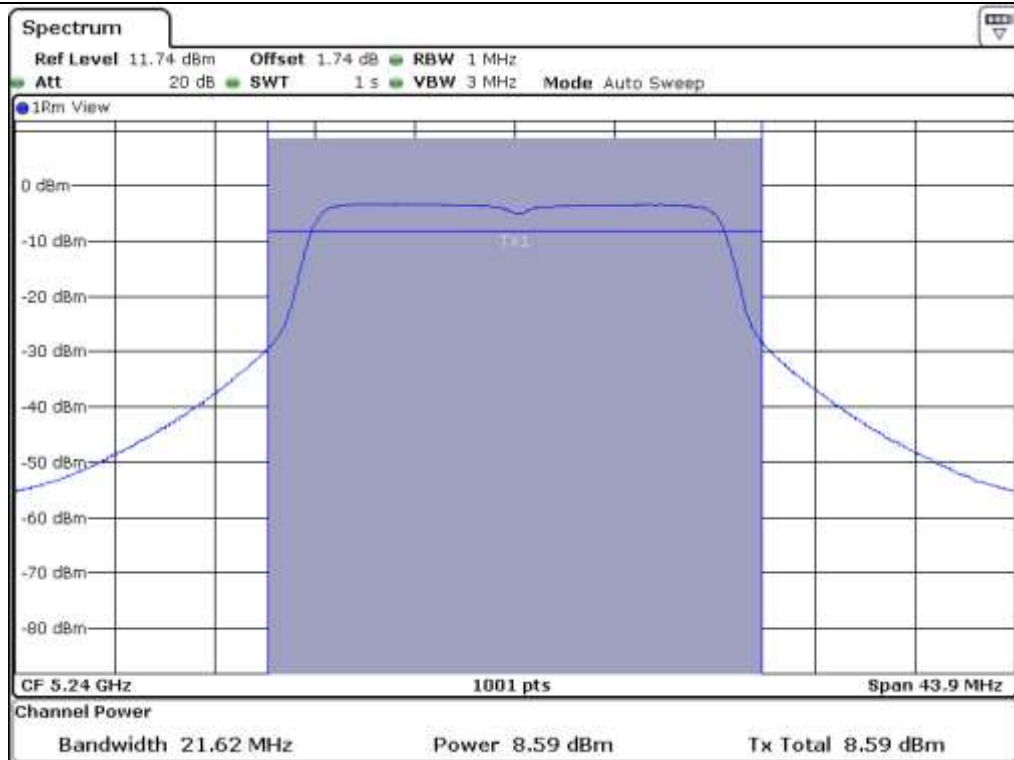
Tested by: Jun-Hui, Lee / Senior Engineer



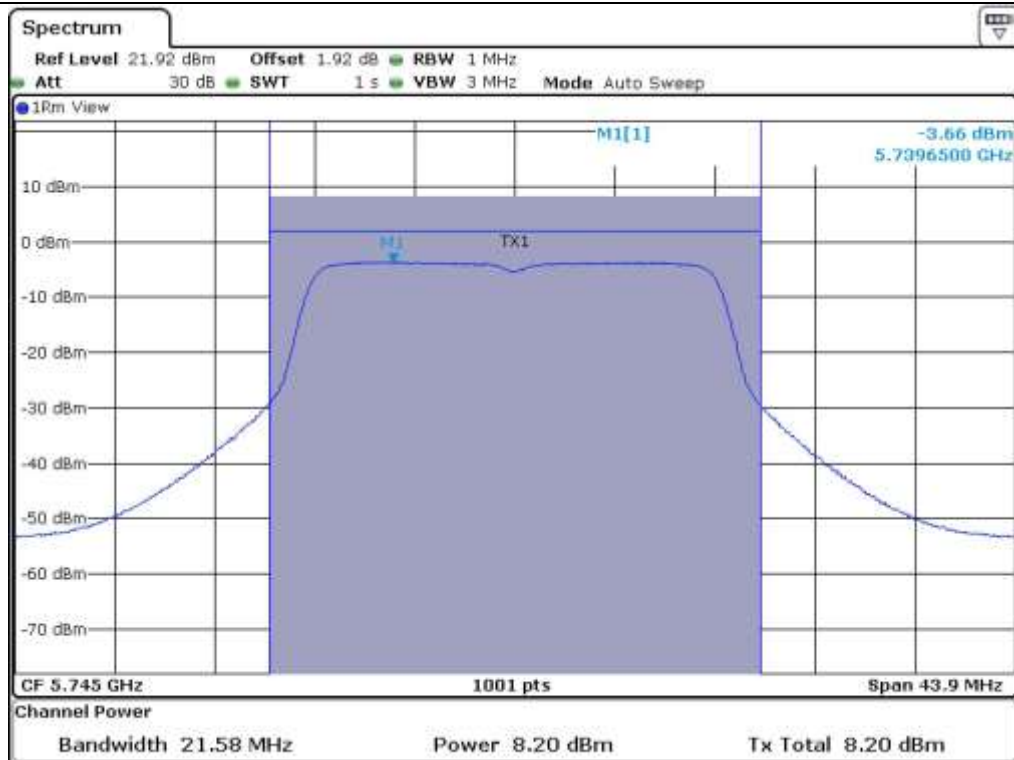
Low Channel @ 5 180 MHz (26 dB Bandwidth)



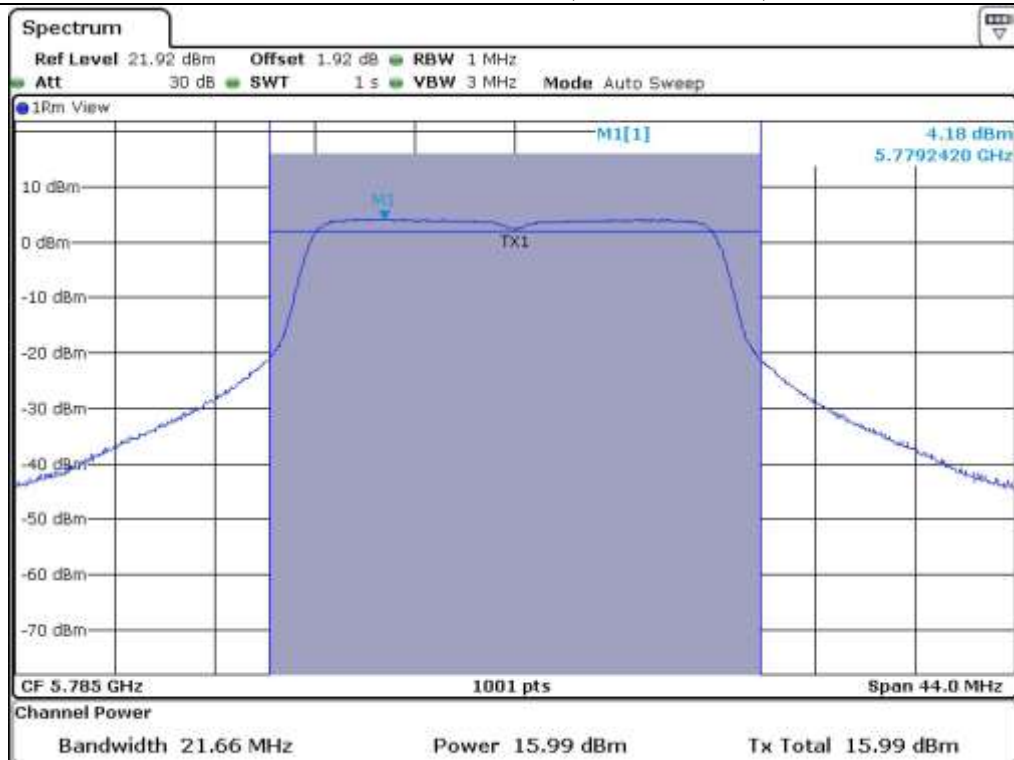
Middle Channel @ 5 200 MHz (26 dB Bandwidth)



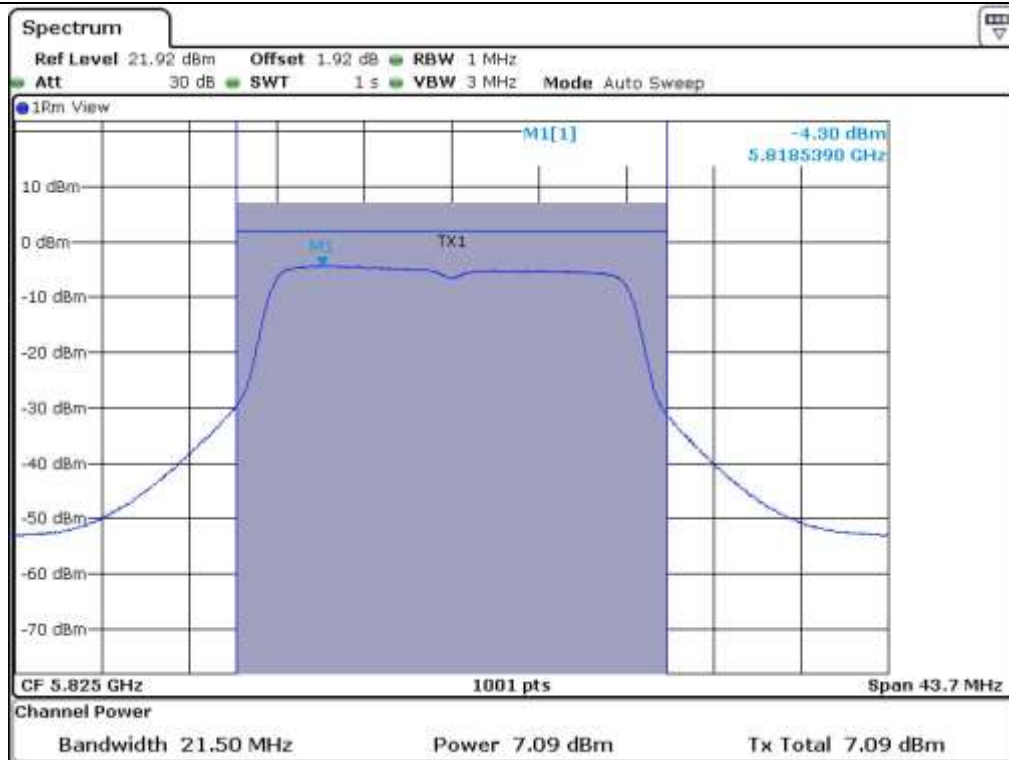
High Channel @ 5 240 MHz (26 dB Bandwidth)



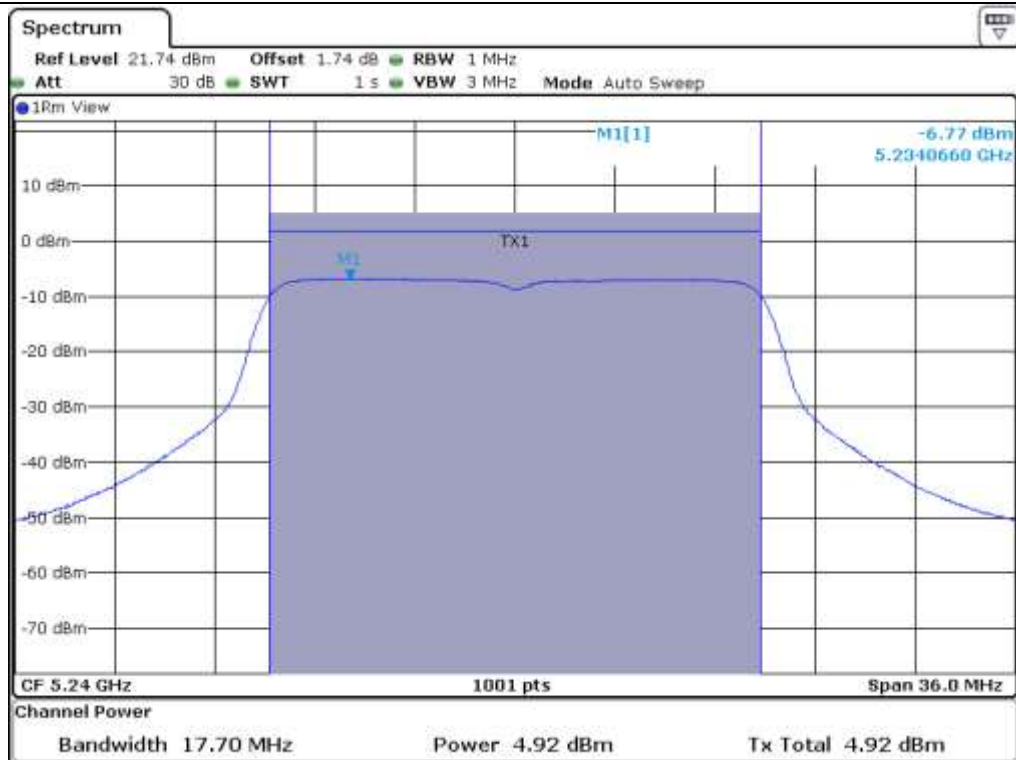
Low Channel @ 5.745 MHz (26 dB Bandwidth)



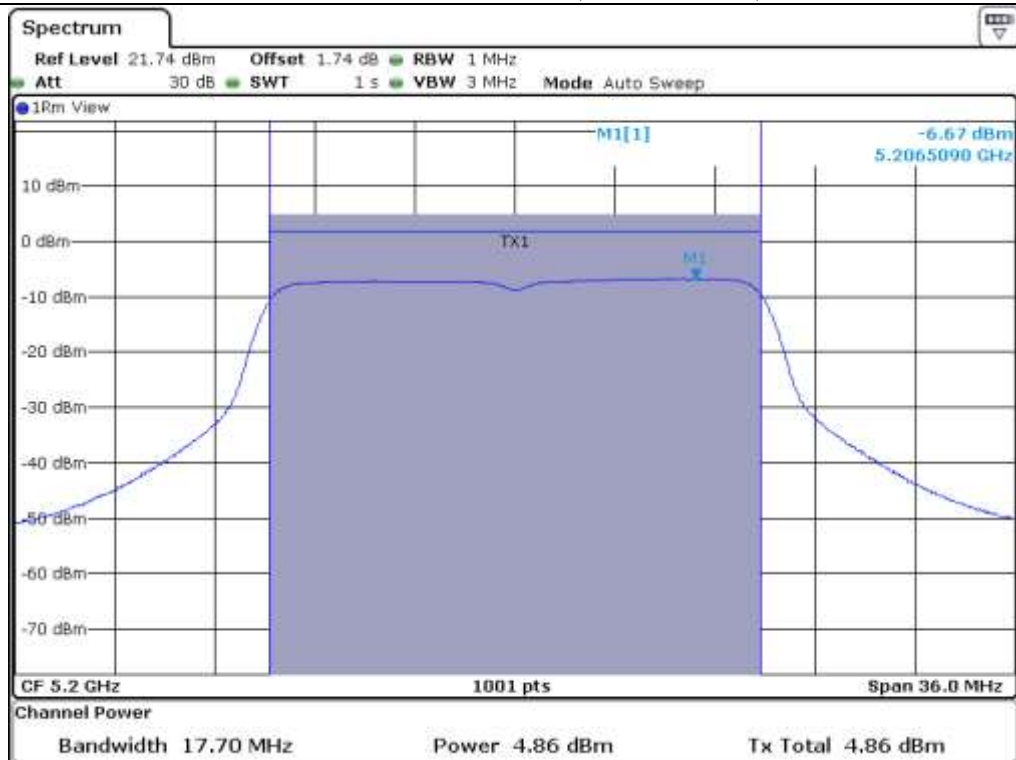
Middle Channel @ 5.785 MHz (26 dB Bandwidth)



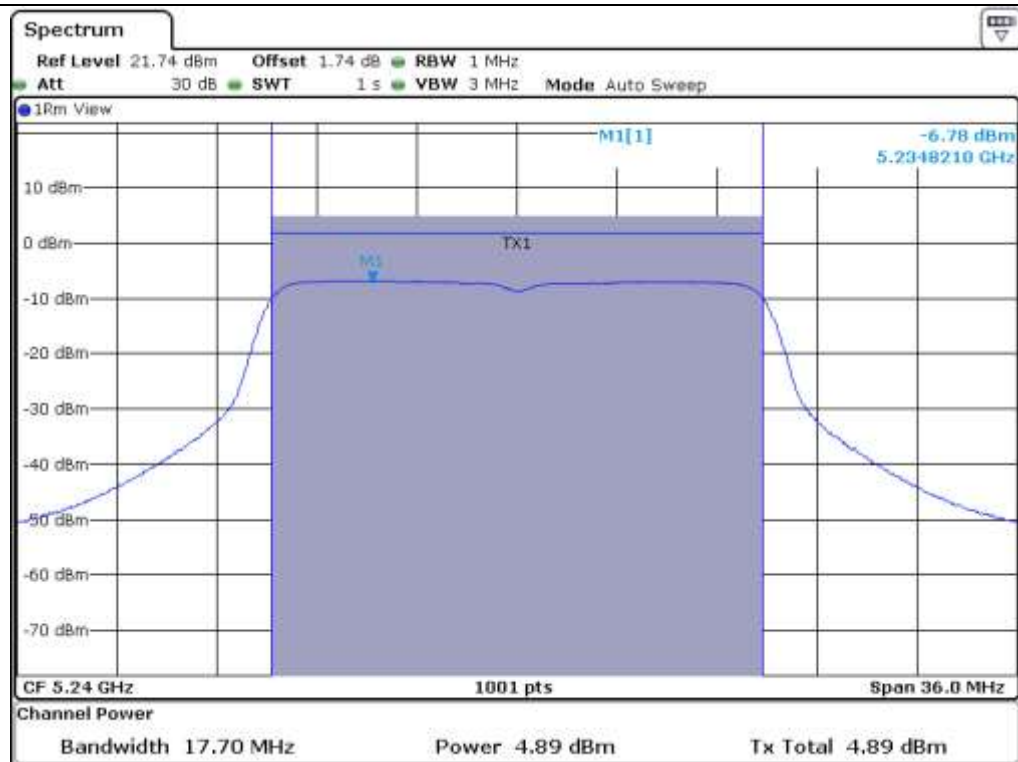
High Channel @ 5 825 MHz (26 dB Bandwidth)



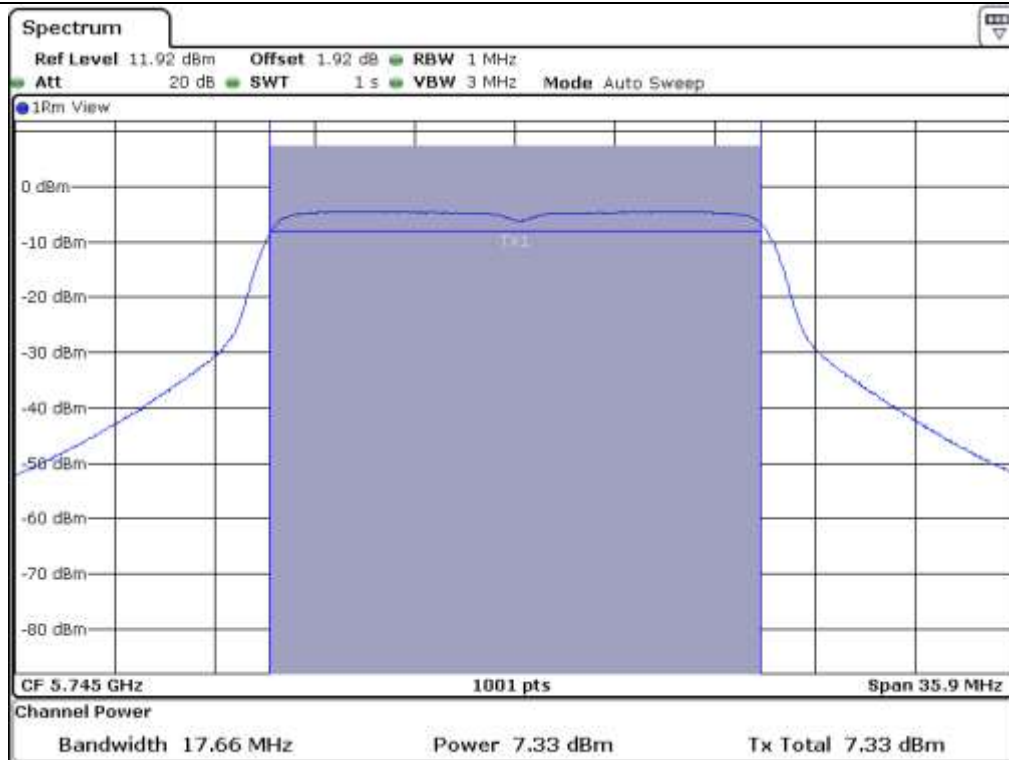
Low Channel @ 5 180 MHz (99 % bandwidth)



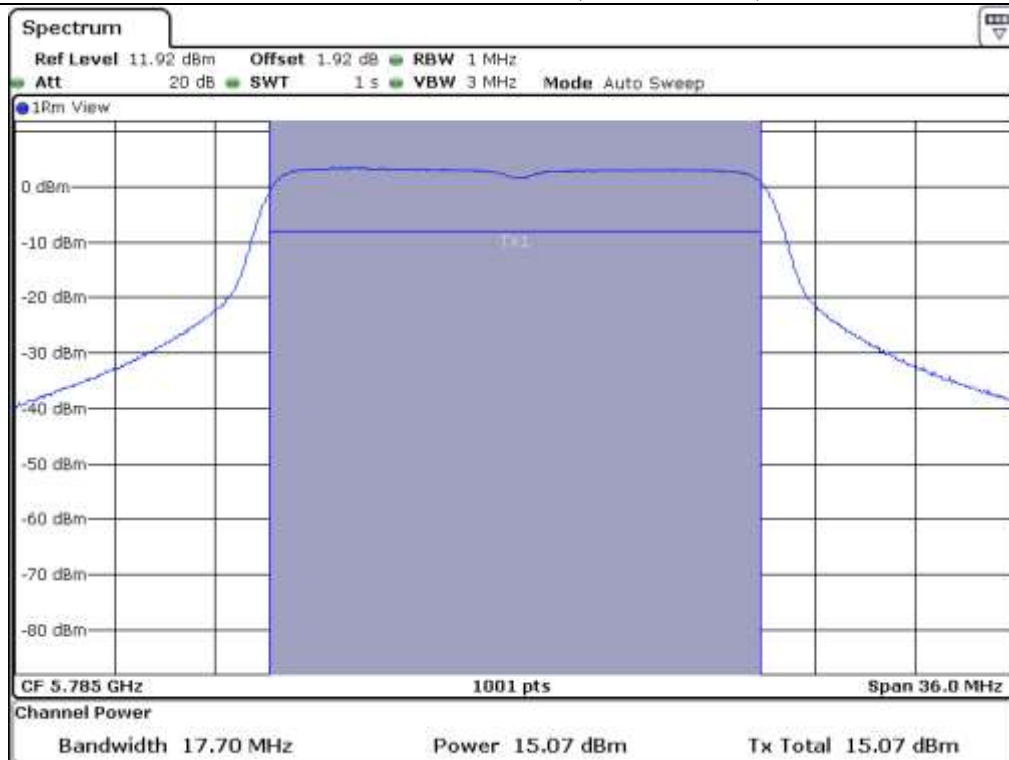
Middle Channel @ 5 200 MHz (99 % bandwidth)



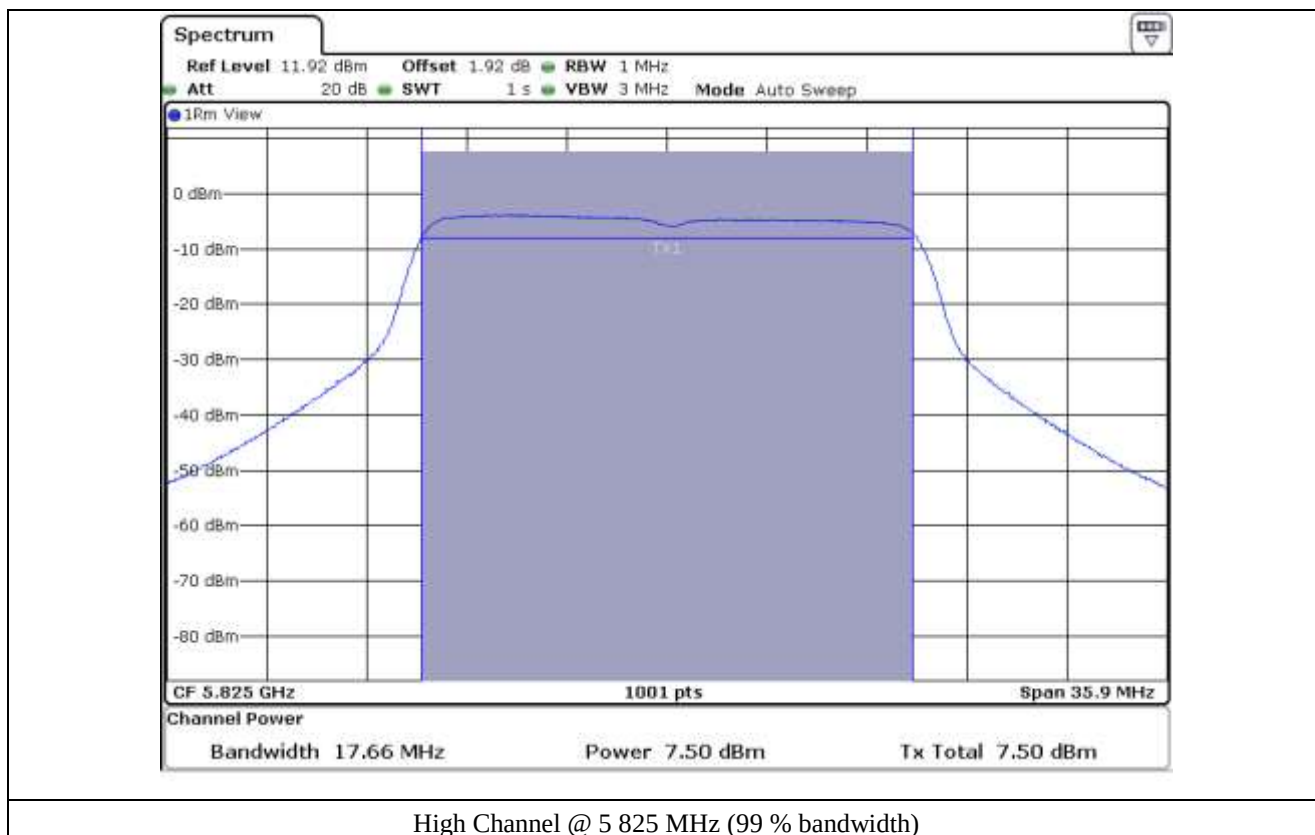
High Channel @ 5 240 MHz (99 % bandwidth)



Low Channel @ 5.745 MHz (99 % bandwidth)



Middle Channel @ 5.785 MHz (99 % bandwidth)



8.7.4 Test data for Multiple Transmit

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	13.36	24.70	11.34
	Middle	5 200	13.45	24.70	11.25
	High	5 240	13.51	24.70	11.19
5 725 ~ 5 850	Low	5 745	13.02	24.81	11.79
	Middle	5 785	21.02	24.81	3.79
	High	5 825	11.89	24.81	12.92

Remark 1 : Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Remark 2 :Calculated Output Power= $10\log (10^{(\text{Antenna1 Output Power}/10)}+10^{(\text{Antenna2 Output Power}/10)})$

-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	11.30	17.7	9.77	22.47	1.39	21.08
	Middle	5 200		17.7	9.67	22.47	1.49	20.98
	High	5 240		17.7	9.71	22.47	1.45	21.02
5 725 ~ 5 825	Low	5 745	11.19	17.66	12.19	24.81	12.62	-
	Middle	5 785		17.7	20.45	24.81	4.37	-
	High	5 825		17.66	12.44	24.81	12.37	-

Remark 1 : Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Remark 2 :Calculated Output Power= $10\log (10^{(\text{Antenna1 Output Power}/10)}+10^{(\text{Antenna2 Output Power}/10)})$

Tested by: Jun-Hui, Lee / Senior Engineer

8.8 Test data for 802.11ac40 RLAN Mode

8.8.1 Test data for Antenna 0

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190	41.16	10.13	29.47	19.34
	High	5 230	42.44	9.95	29.47	19.52
5 725 ~ 5 850	Low	5 755	40.44	6.40	29.59	23.19
	High	5 795	40.92	6.22	29.59	23.37

Remark: See next page for measurement data.

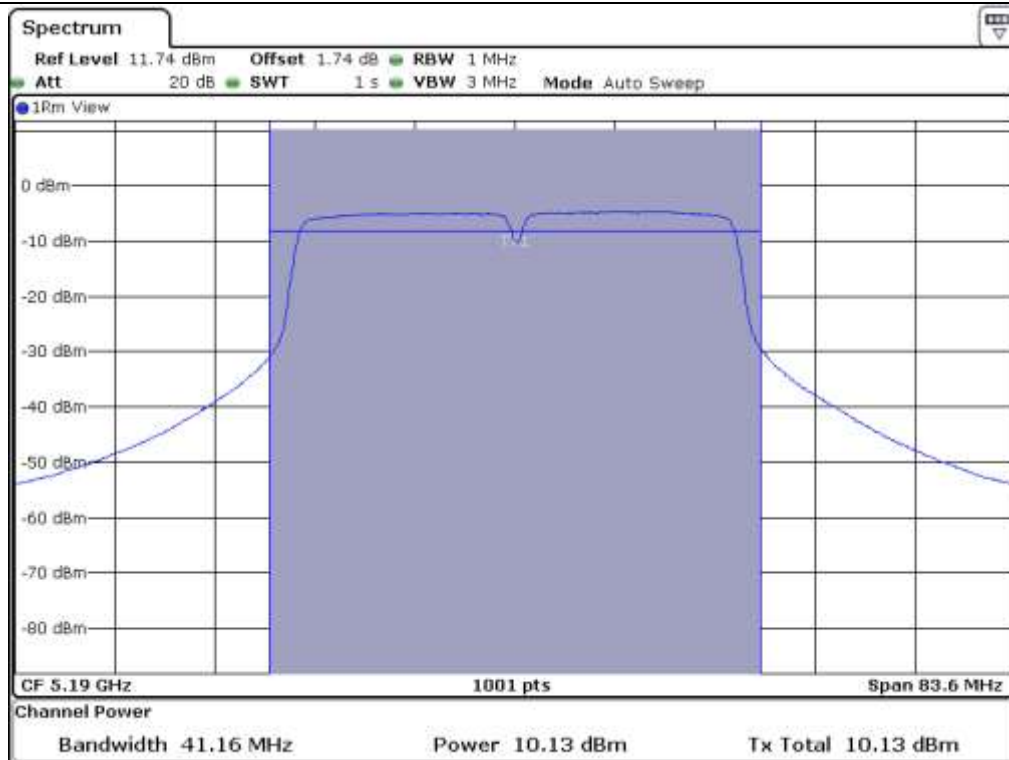
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 190	6.53	36.12	5.46	23.00	11.01	11.99
	High	5 230		36.12	5.62	23.00	10.85	12.15
5 725 ~ 5 825	Low	5 755	6.42	36.12	6.44	29.59	23.15	-
	High	5 795		36.20	5.92	29.59	23.67	-

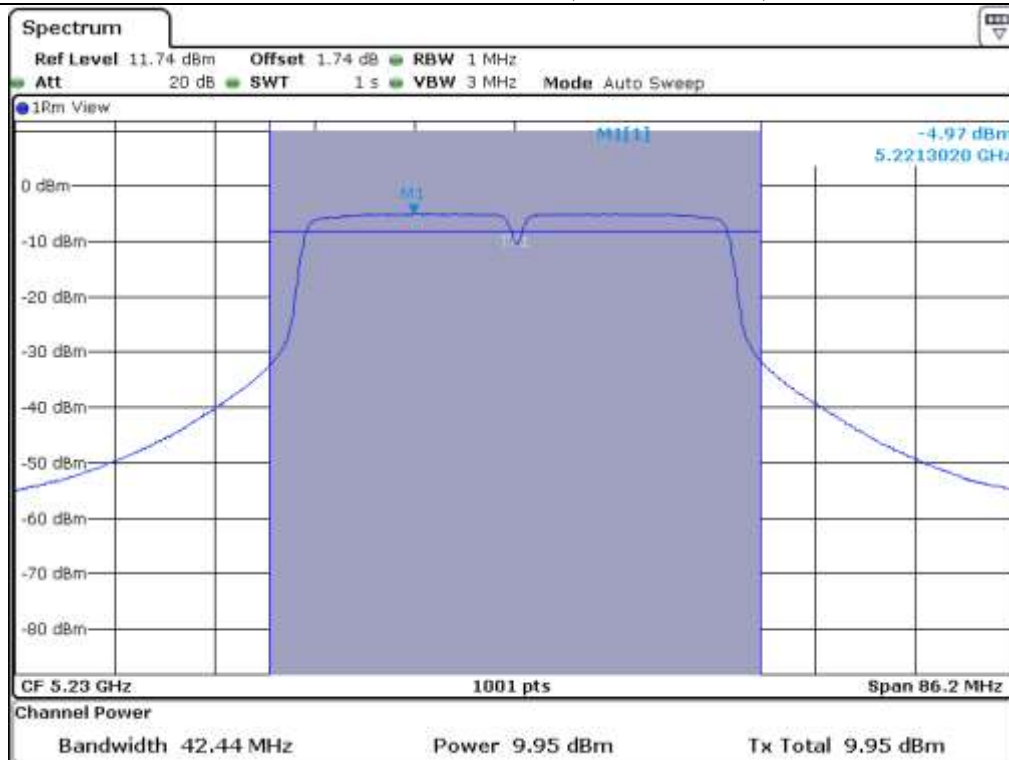
Remark: See next page for measurement data.



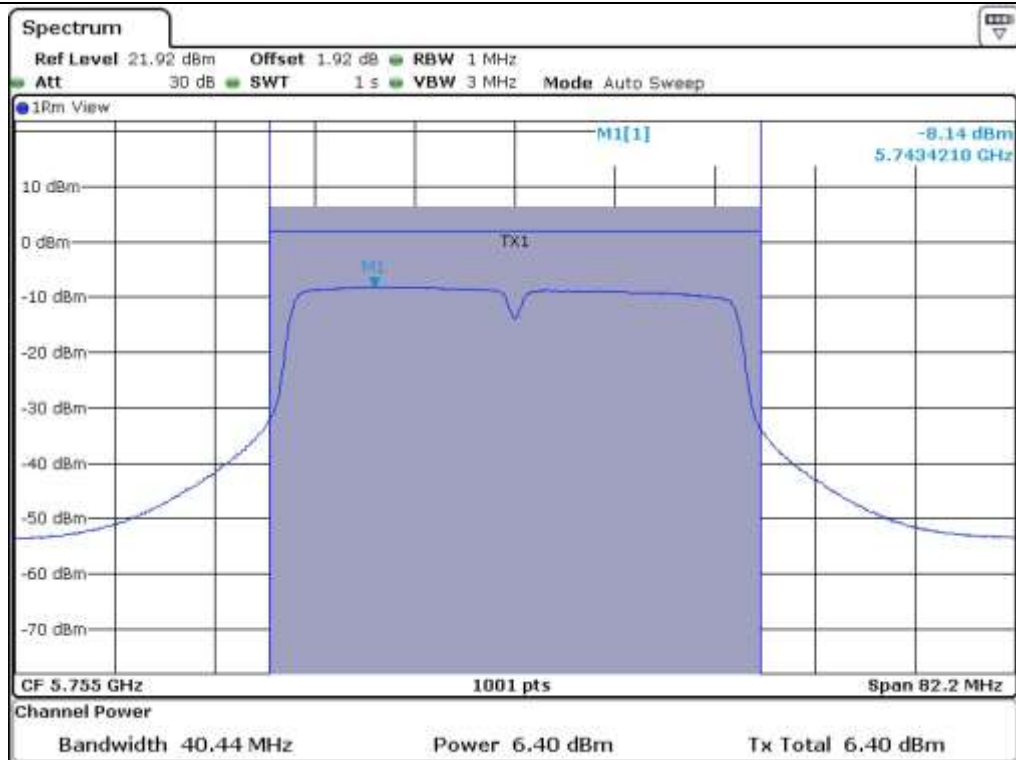
Tested by: Jun-Hui, Lee / Senior Engineer



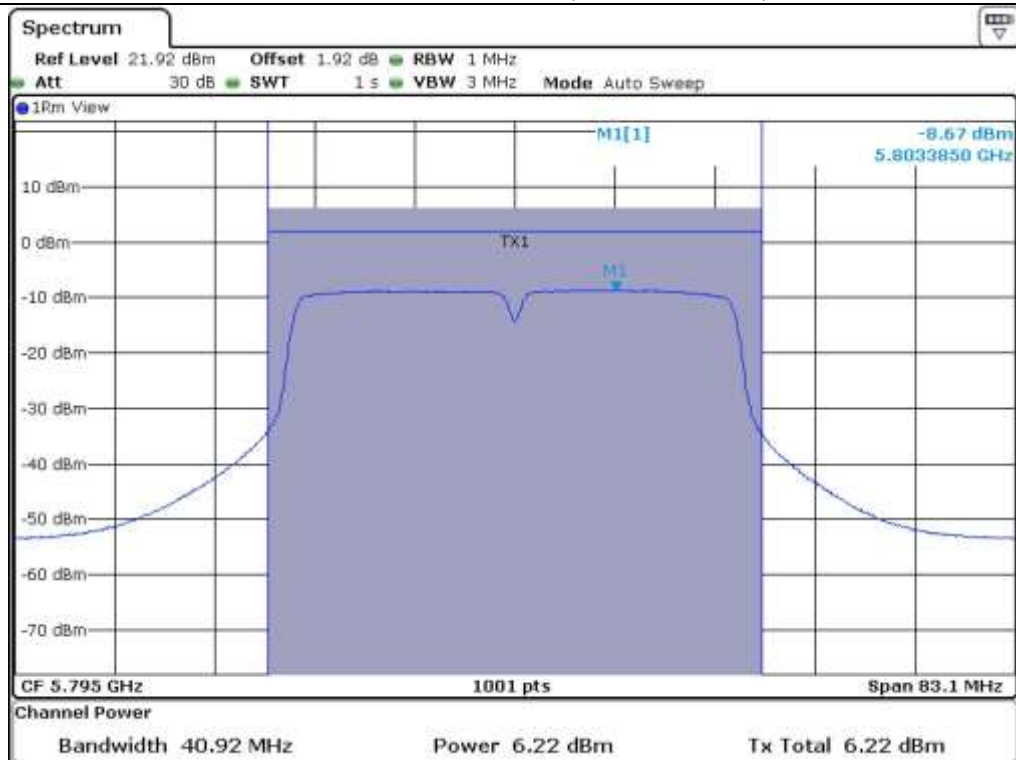
Low Channel @ 5 190 MHz (26 dB Bandwidth)



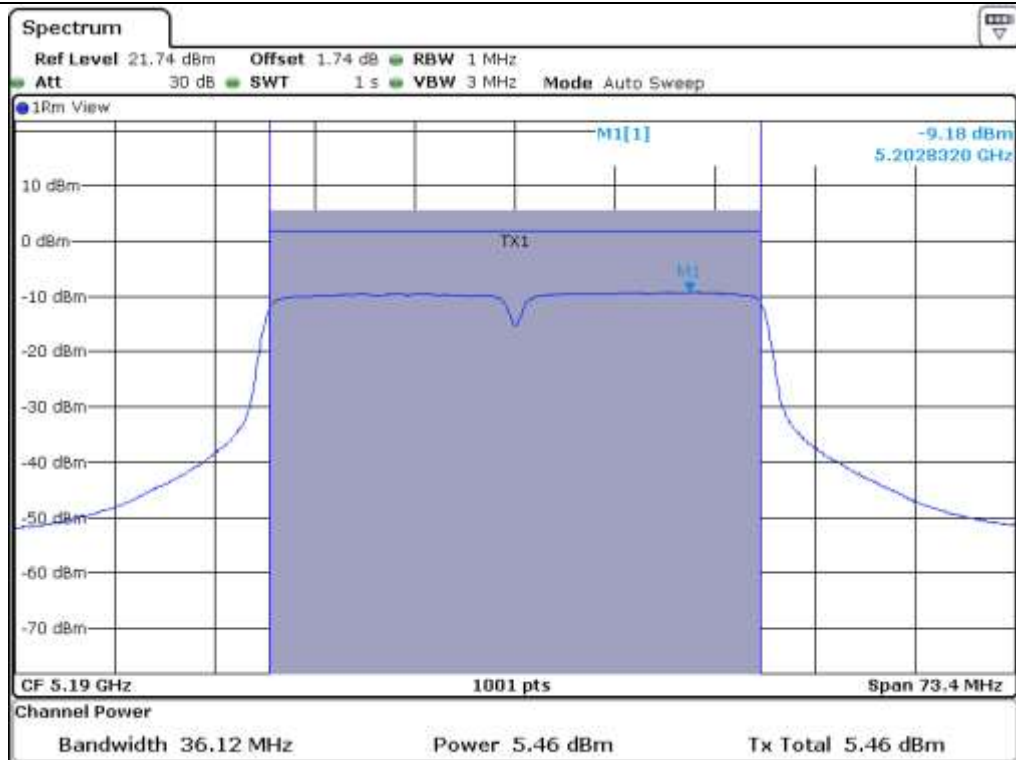
High Channel @ 5 230 MHz (26 dB Bandwidth)



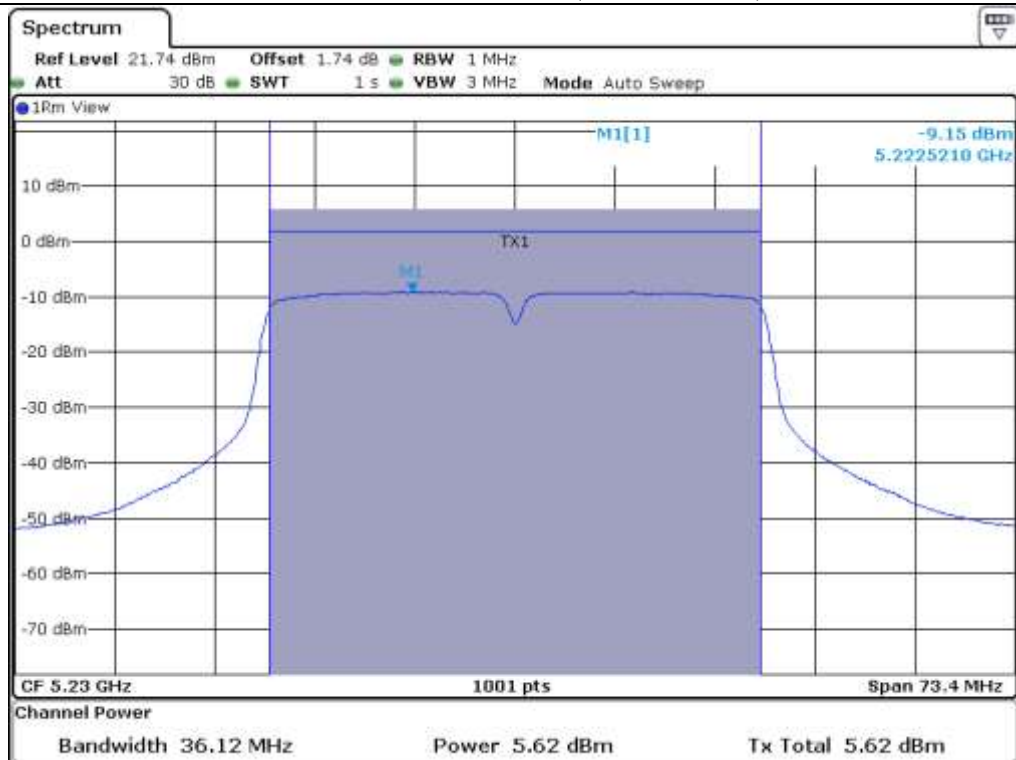
Low Channel @ 5 755 MHz (26 dB Bandwidth)



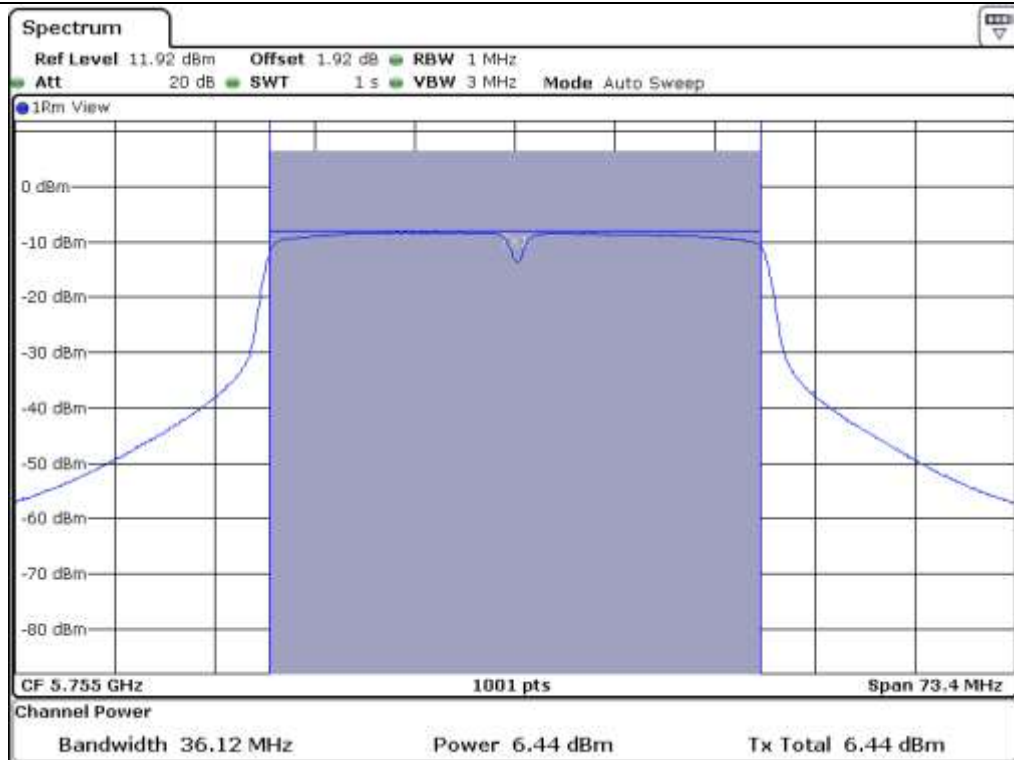
High Channel @ 5 795 MHz (26 dB Bandwidth)



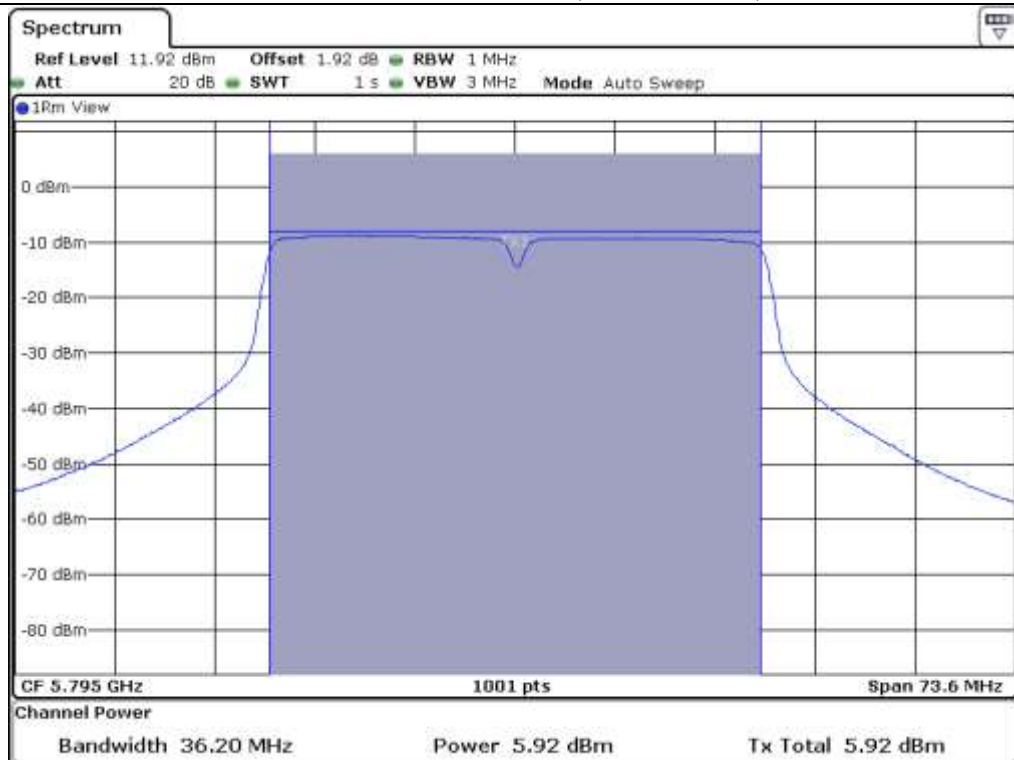
Low Channel @ 5 190 MHz (99 % bandwidth)



High Channel @ 5 230 MHz (99 % bandwidth)



Low Channel @ 5 755 MHz (99 % bandwidth)



High Channel @ 5 795 MHz (99 % bandwidth)

8.8.2 Test data for Antenna 1

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

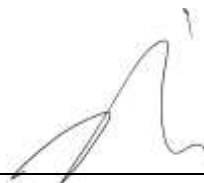
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190	41.96	9.43	29.47	20.04
	High	5 230	41.72	9.83	29.47	19.64
5 725 ~ 5 850	Low	5 755	41.16	6.00	29.59	23.59
	High	5 795	40.20	5.88	29.59	23.71

Remark: See next page for measurement data.

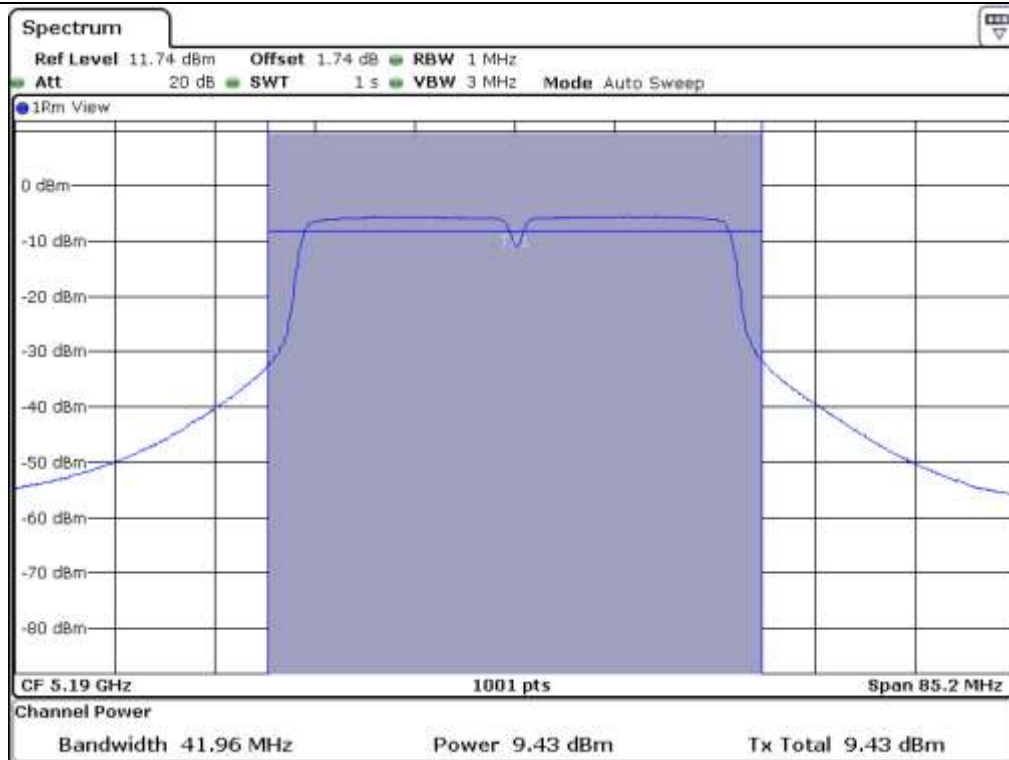
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 190	6.53	36.12	5.02	23.00	11.45	11.55
	High	5 230		36.12	5.70	23.00	10.77	12.23
5 725 ~ 5 825	Low	5 755	6.42	36.12	5.60	29.59	23.99	-
	High	5 795		36.12	5.80	29.59	23.79	-

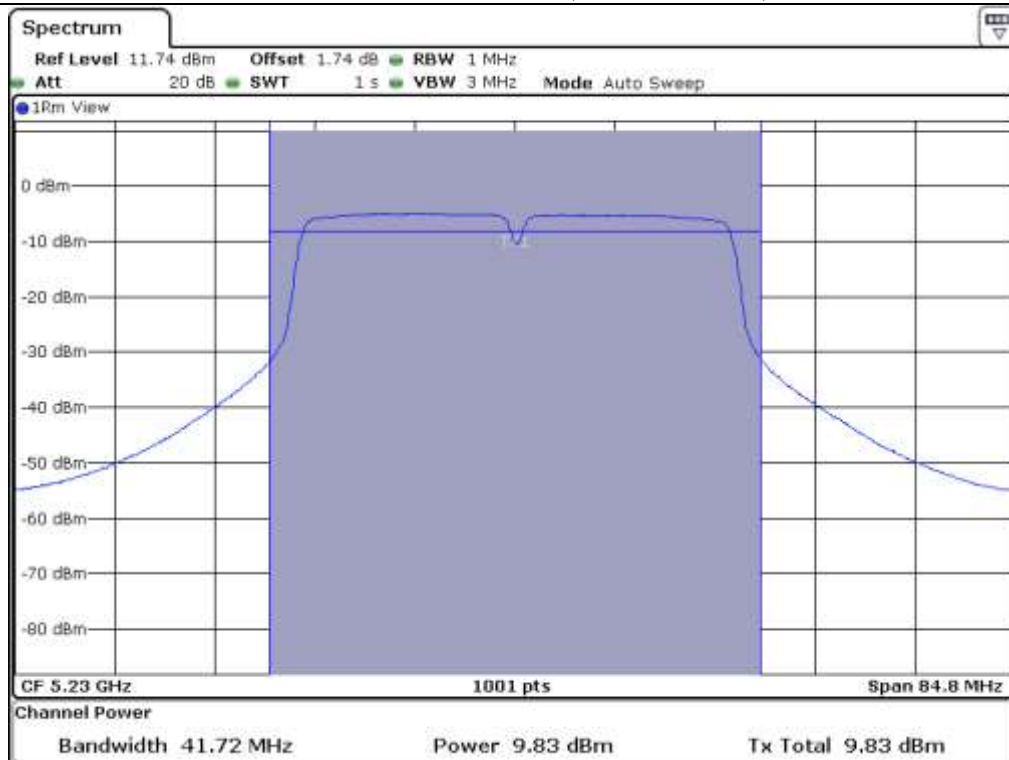
Remark: See next page for measurement data.



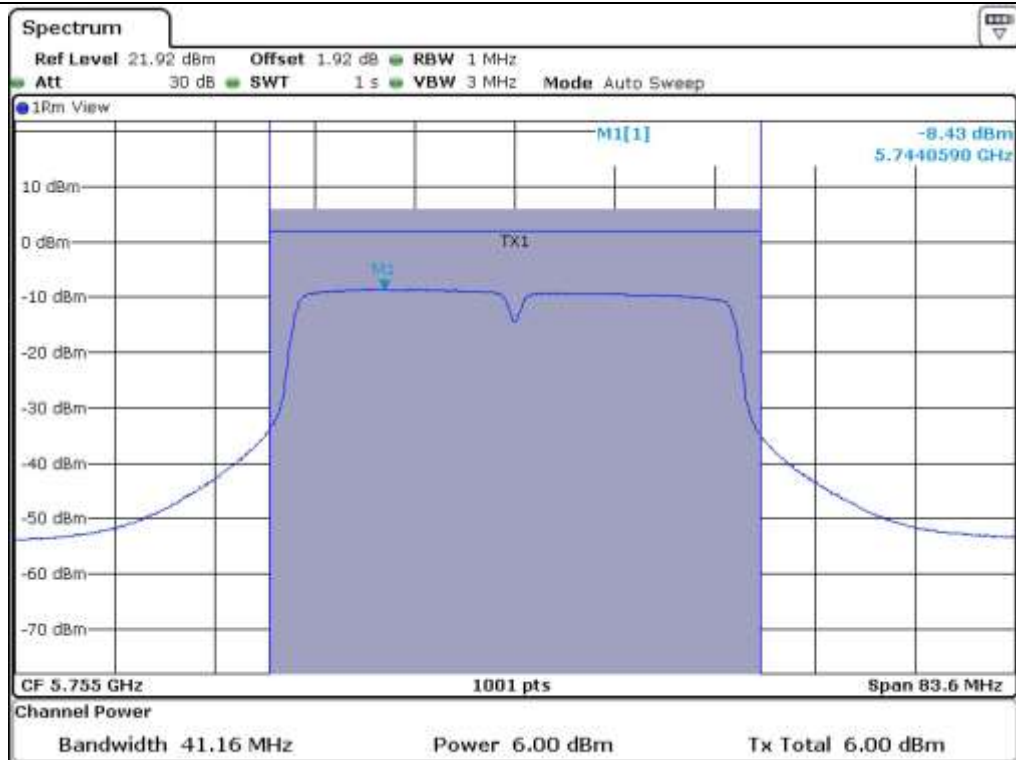
Tested by: Jun-Hui, Lee / Senior Engineer



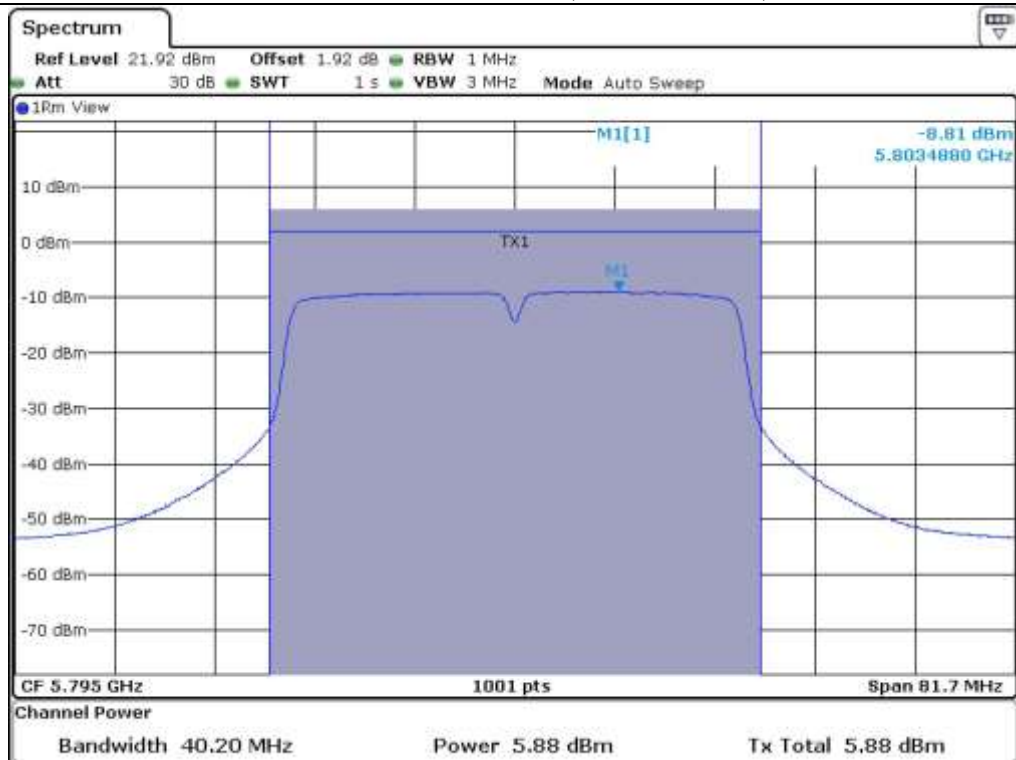
Low Channel @ 5 190 MHz (26 dB Bandwidth)



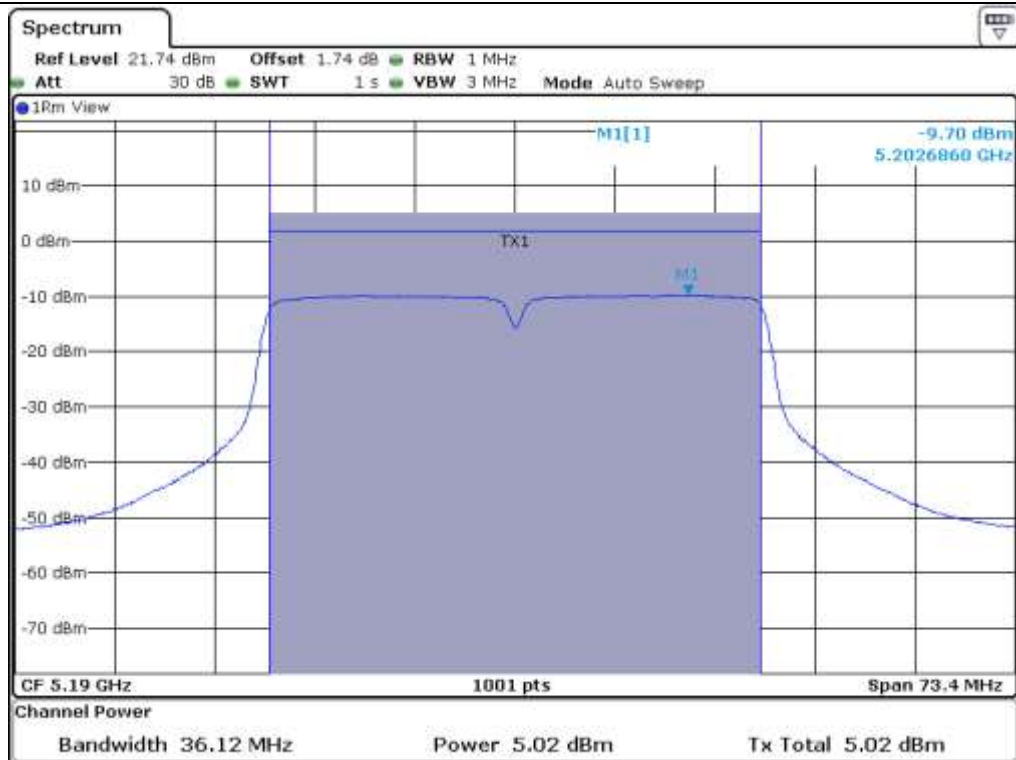
High Channel @ 5 230 MHz (26 dB Bandwidth)



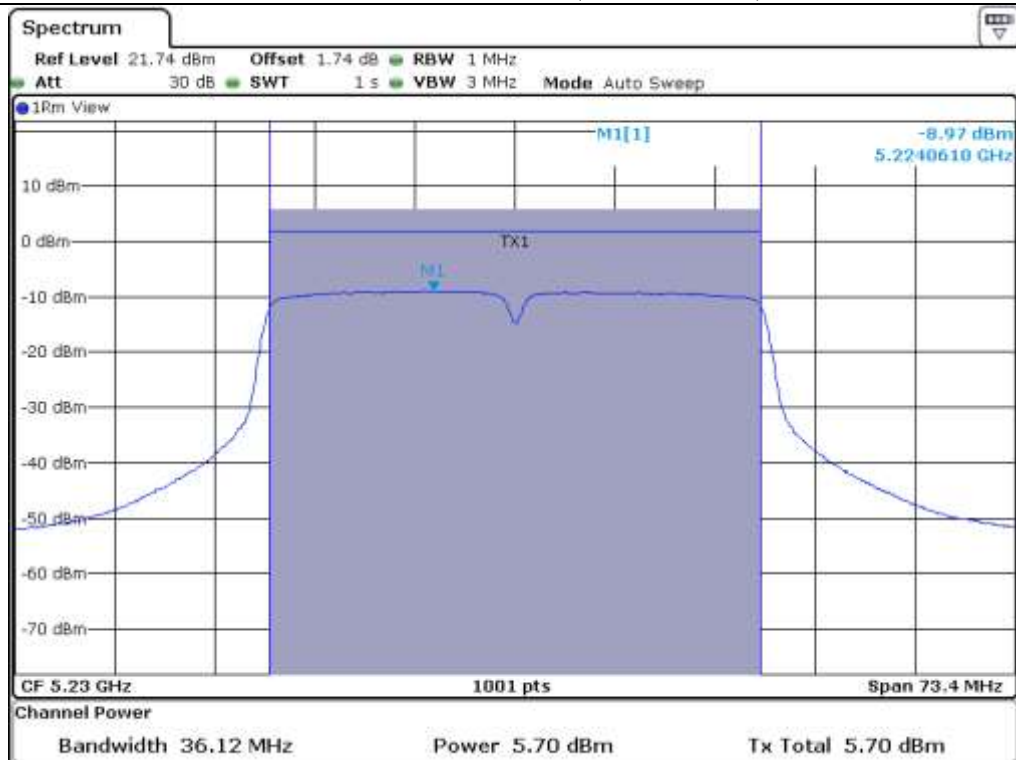
Low Channel @ 5.755 MHz (26 dB Bandwidth)



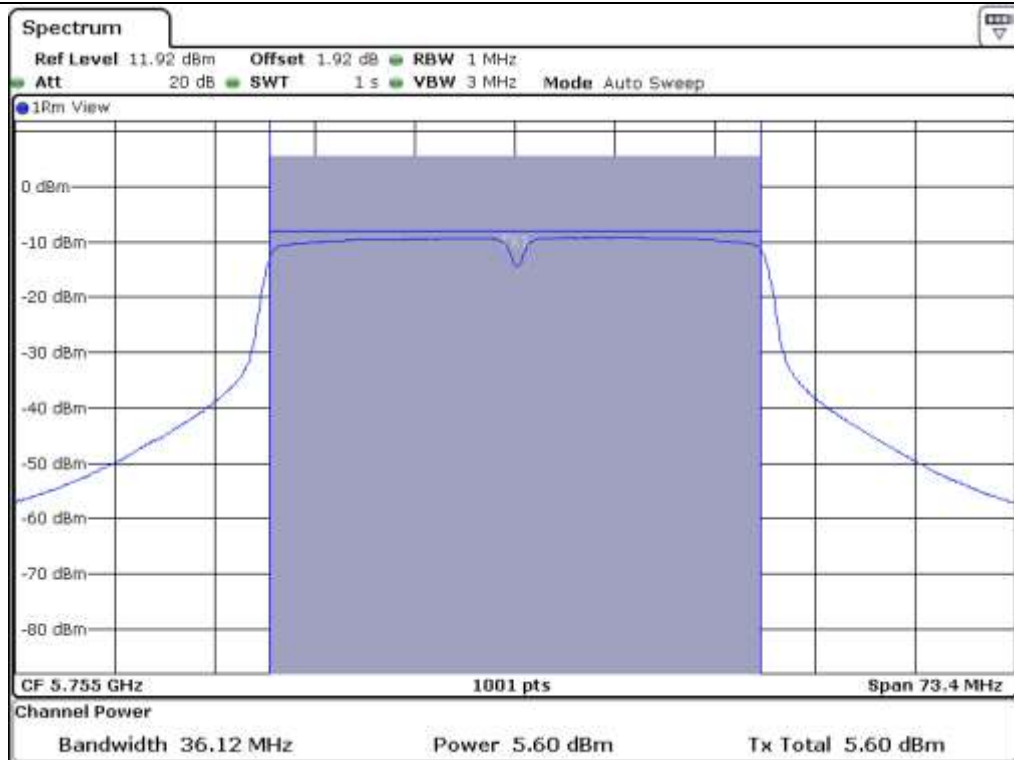
High Channel @ 5.795 MHz (26 dB Bandwidth)



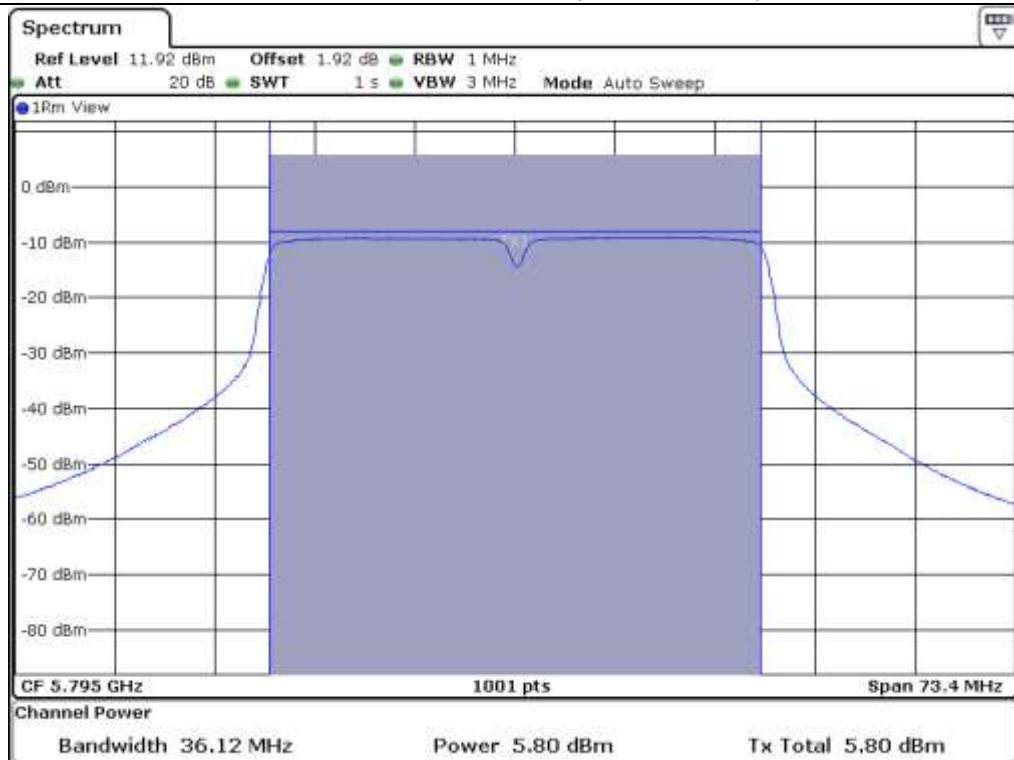
Low Channel @ 5 190 MHz (99 % bandwidth)



High Channel @ 5 230 MHz (99 % bandwidth)



Low Channel @ 5 755 MHz (99 % bandwidth)



High Channel @ 5 795 MHz (99 % bandwidth)

8.8.3 Test data for Antenna 2

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190	41.16	9.38	29.47	20.09
	High	5 230	41.32	9.88	29.47	19.59
5 725 ~ 5 850	Low	5 755	40.36	6.31	29.59	23.28
	High	5 795	41.56	5.68	29.59	23.91

Remark: See next page for measurement data.

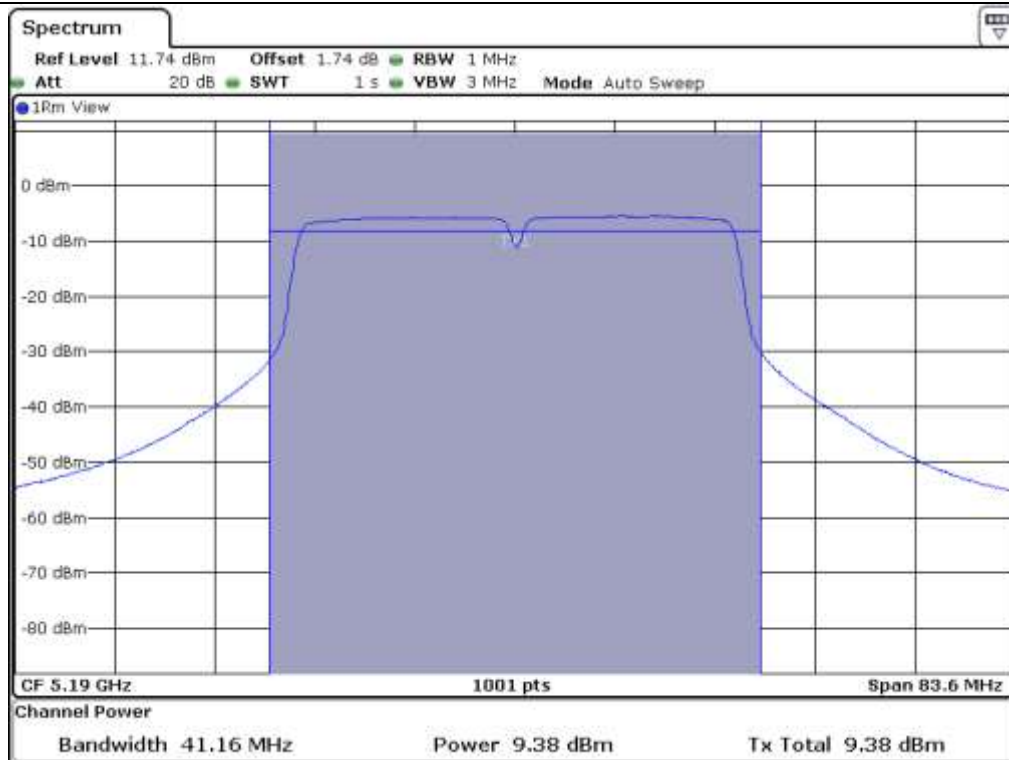
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 190	6.53	36.12	5.26	23.00	11.21	11.79
	High	5 230		36.12	5.62	23.00	10.85	12.15
5 725 ~ 5 825	Low	5 755	6.42	36.20	5.49	29.59	24.10	-
	High	5 795		36.20	5.04	29.59	24.55	-

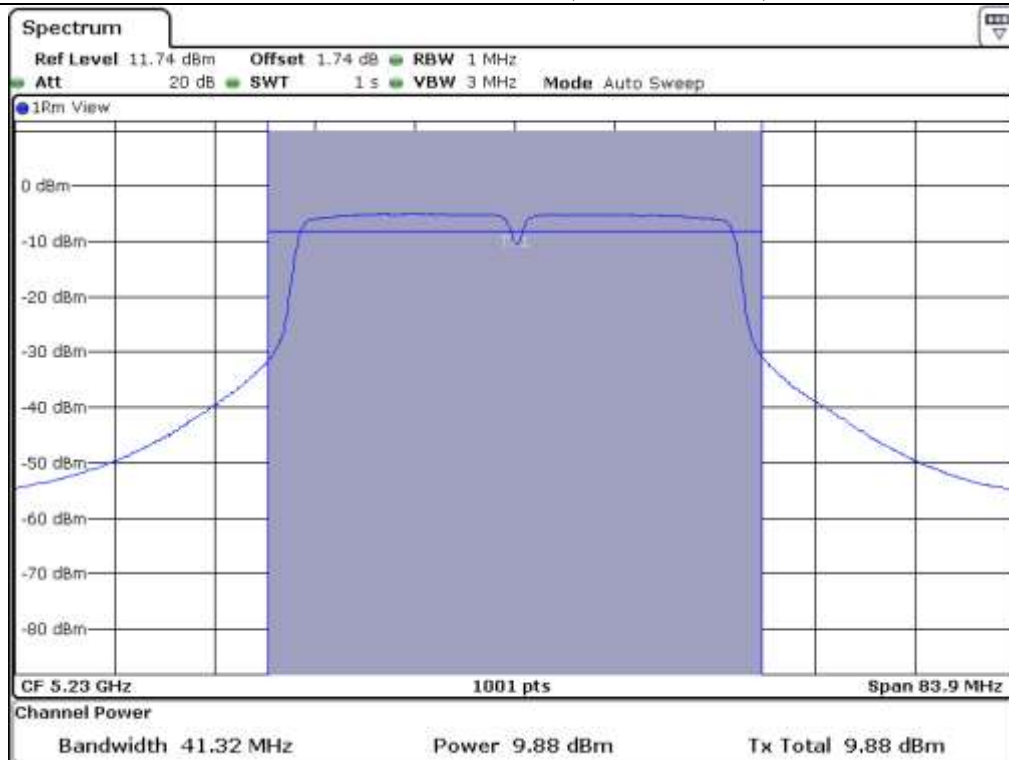
Remark: See next page for measurement data.



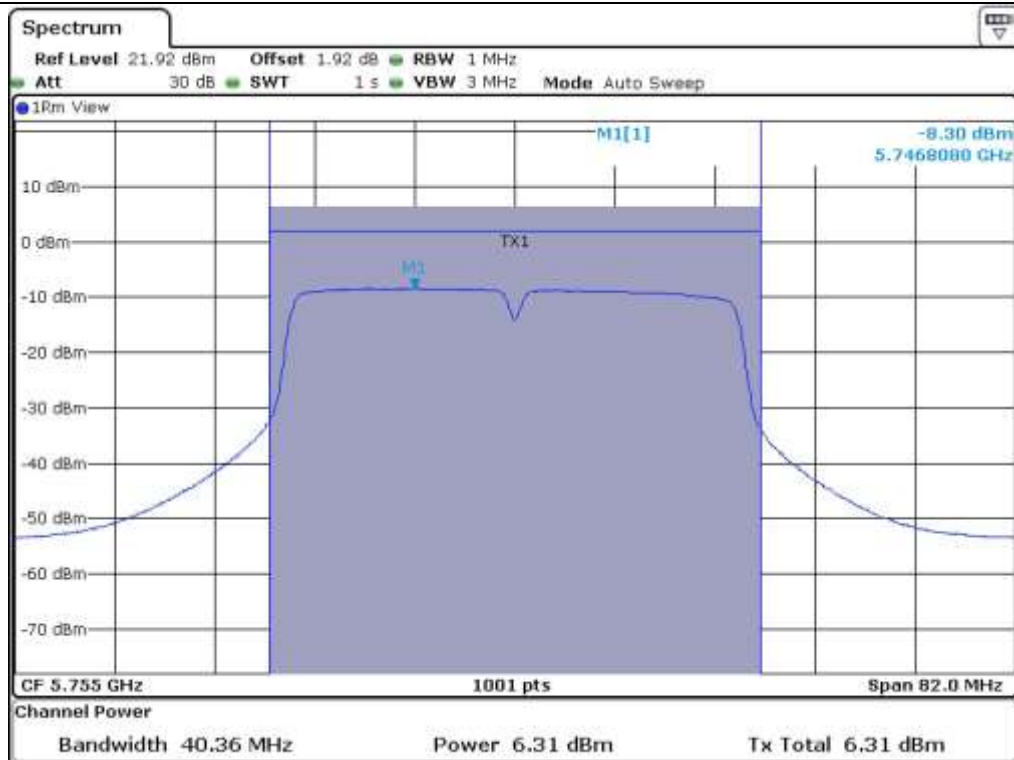
 Tested by: Jun-Hui, Lee / Senior Engineer



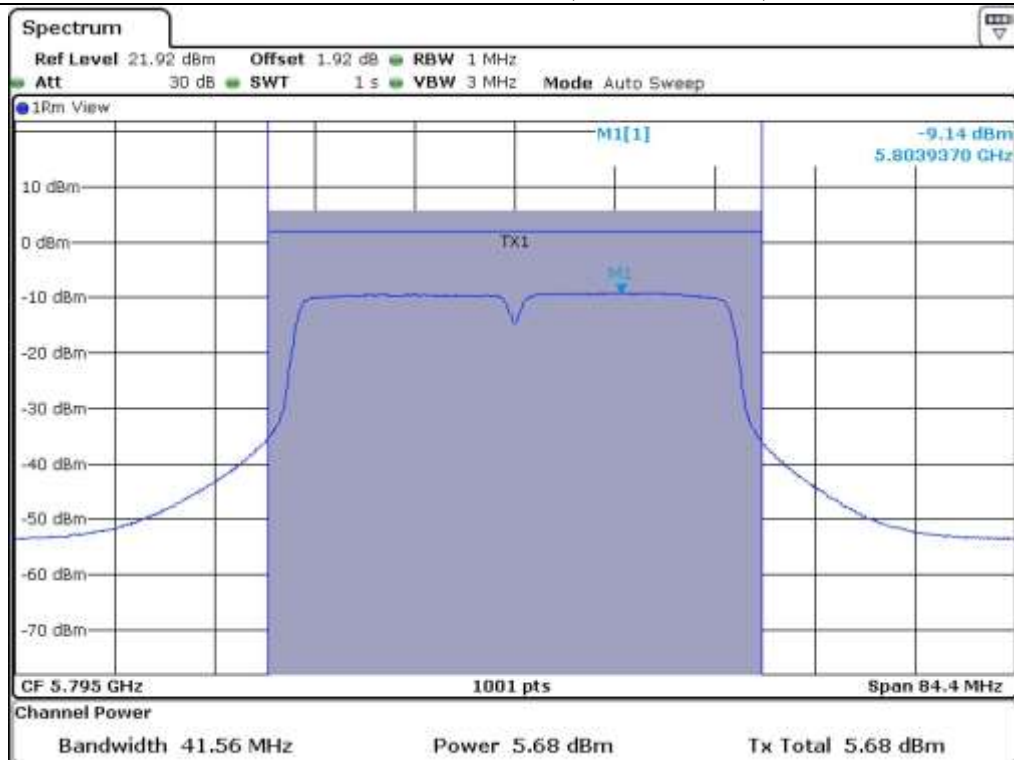
Low Channel @ 5 190 MHz (26 dB Bandwidth)



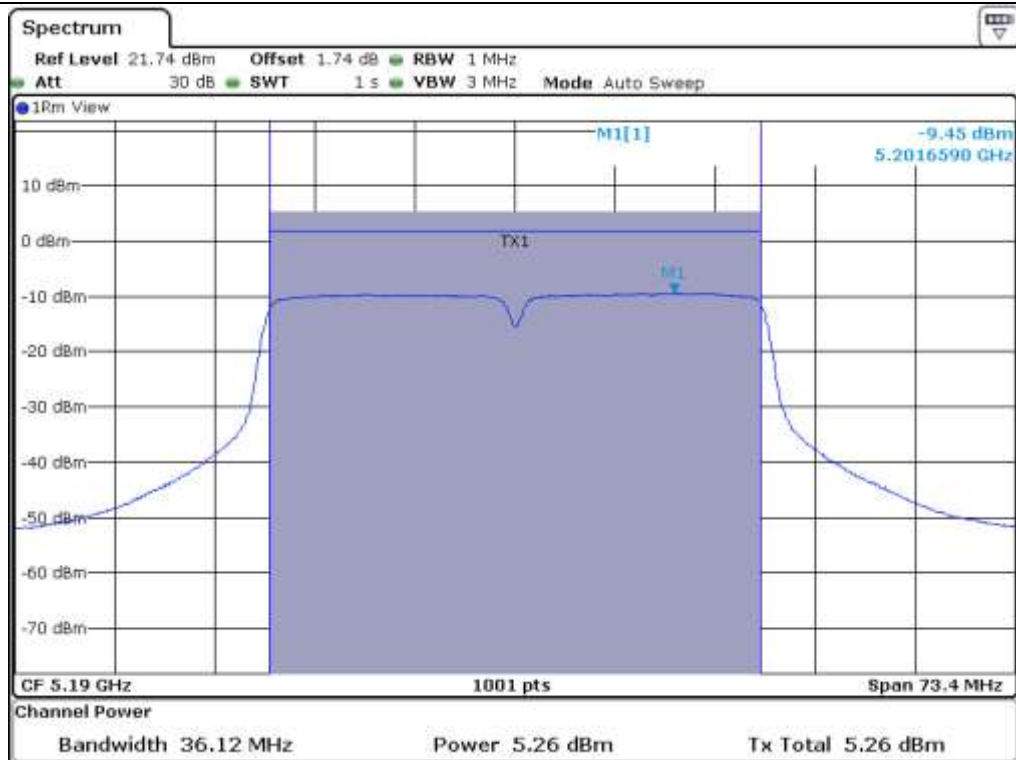
High Channel @ 5 230 MHz (26 dB Bandwidth)



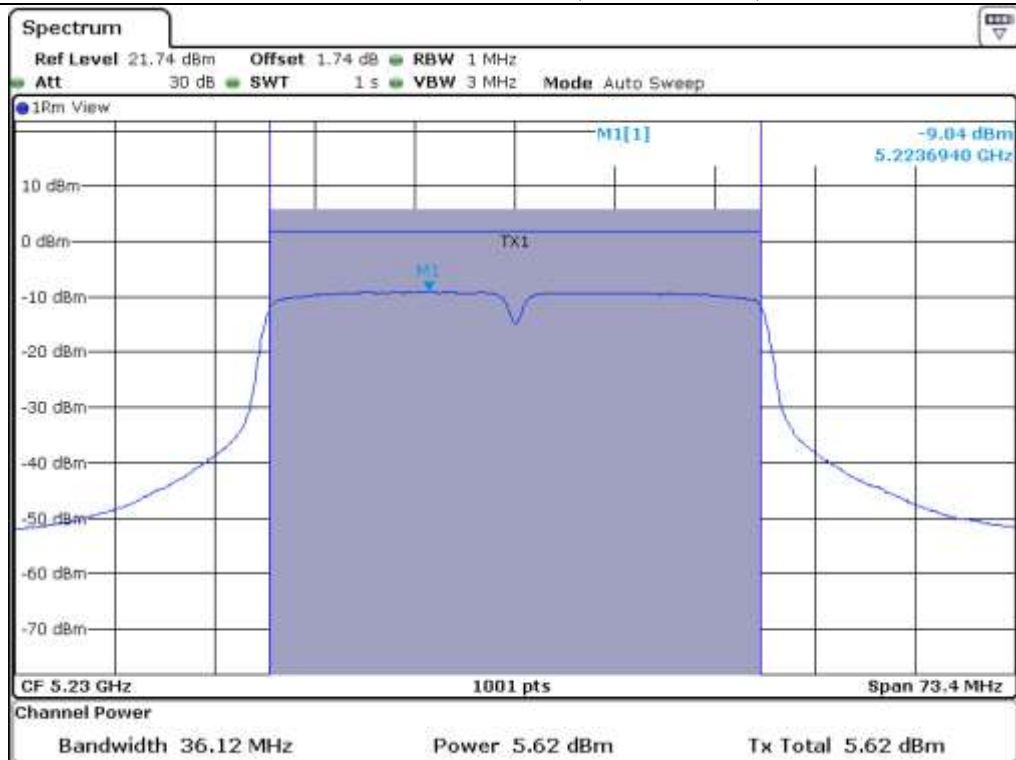
Low Channel @ 5.755 MHz (26 dB Bandwidth)



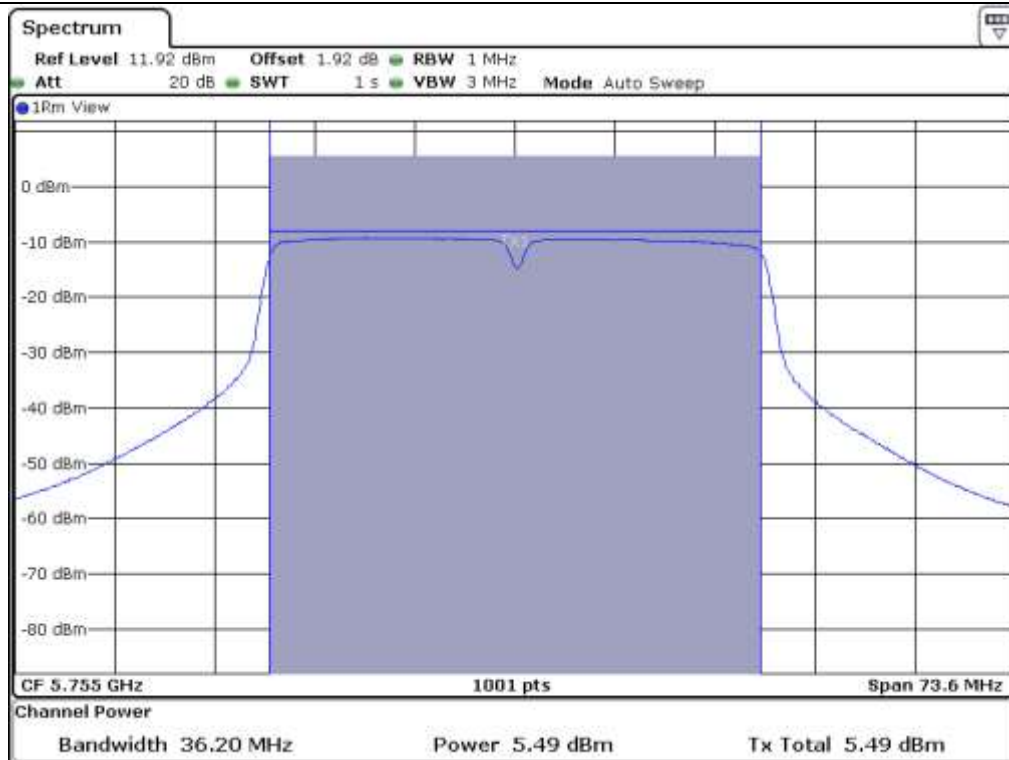
High Channel @ 5.795 MHz (26 dB Bandwidth)



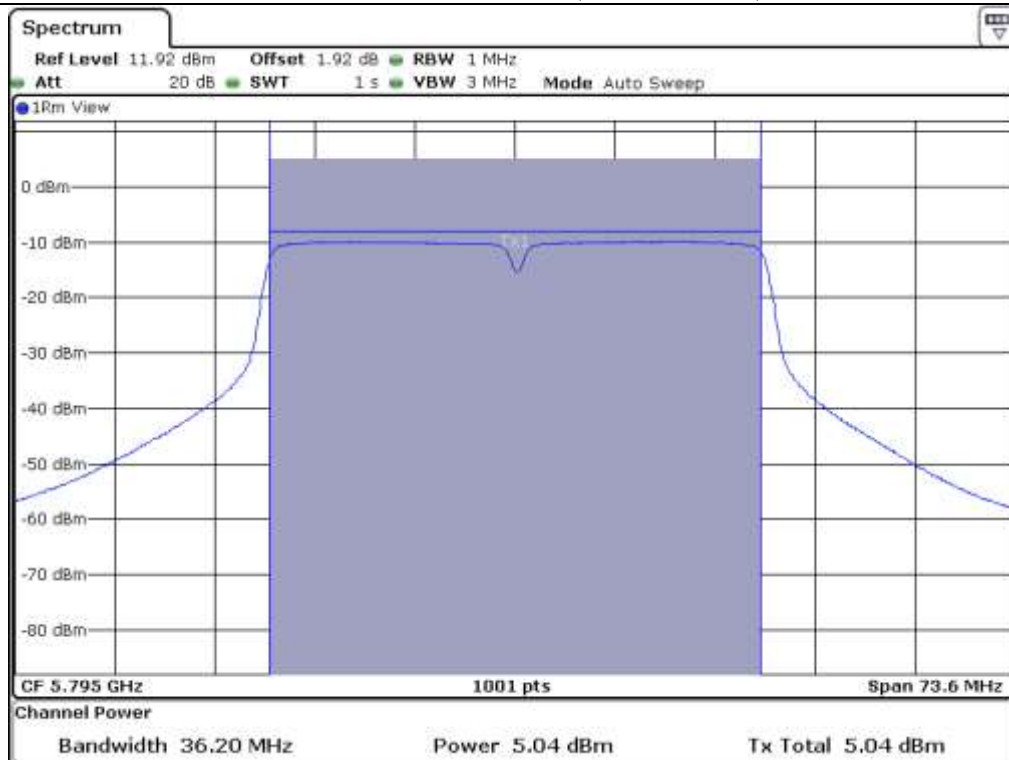
Low Channel @ 5 190 MHz (99 % bandwidth)



High Channel @ 5 230 MHz (99 % bandwidth)



Low Channel @ 5 755 MHz (99 % bandwidth)



High Channel @ 5 795 MHz (99 % bandwidth)

8.8.4 Test data for Multiple transmit

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190	14.43	24.70	10.26
	High	5 230	14.66	24.70	10.04
5 725 ~ 5 850	Low	5 755	11.01	24.81	13.80
	High	5 795	10.70	24.81	14.11

Remark 1 : Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Remark 2 :Calculated Output Power= $10\log (10^{(\text{Antenna1 Output Power}/10)}+10^{(\text{Antenna2 Output Power}/10)})$

-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 190	11.30	36.12	10.02	23.00	1.67	21.33
	High	5 230		36.12	10.42	23.00	1.28	21.72
5 725 ~ 5 825	Low	5 755	11.19	36.20	10.64	24.81	14.18	-
	High	5 795		36.20	10.37	24.81	14.44	-

Remark 1 : Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Remark 2 :Calculated Output Power= $10\log (10^{(\text{Antenna1 Output Power}/10)}+10^{(\text{Antenna2 Output Power}/10)})$



Tested by: Jun-Hui, Lee / Senior Engineer

8.9 Test data for 802.11ac80 RLAN Mode

8.9.1 Test data for Antenna 0

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 210	81.84	10.04	29.47	19.43
5 725 ~ 5 850	Low	5 775	82.12	9.96	29.59	19.63

Remark: See next page for measurement data.

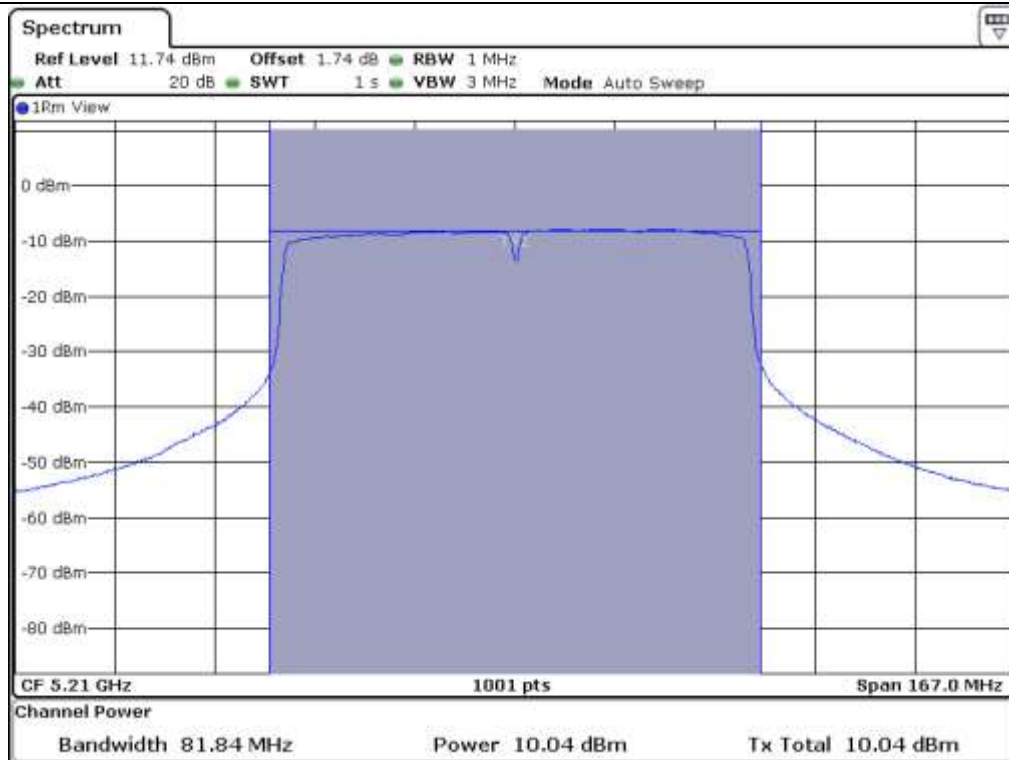
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 210	6.53	75.60	6.15	23.00	10.32	12.68
5 725 ~ 5 850	Low	5 775	6.42	75.44	10.12	29.59	19.47	-

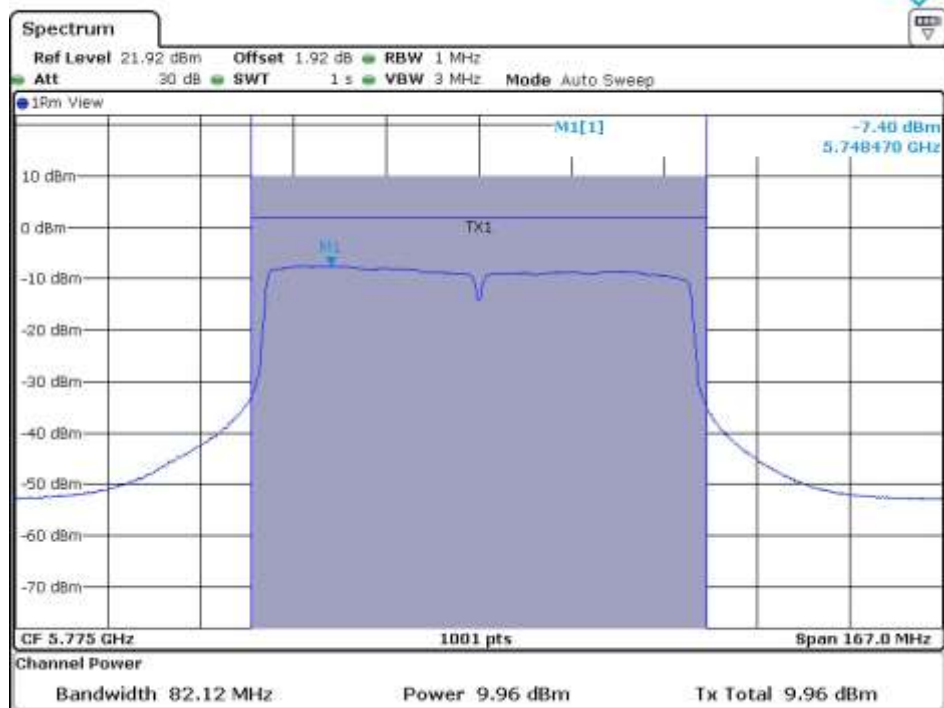
Remark: See next page for measurement data.



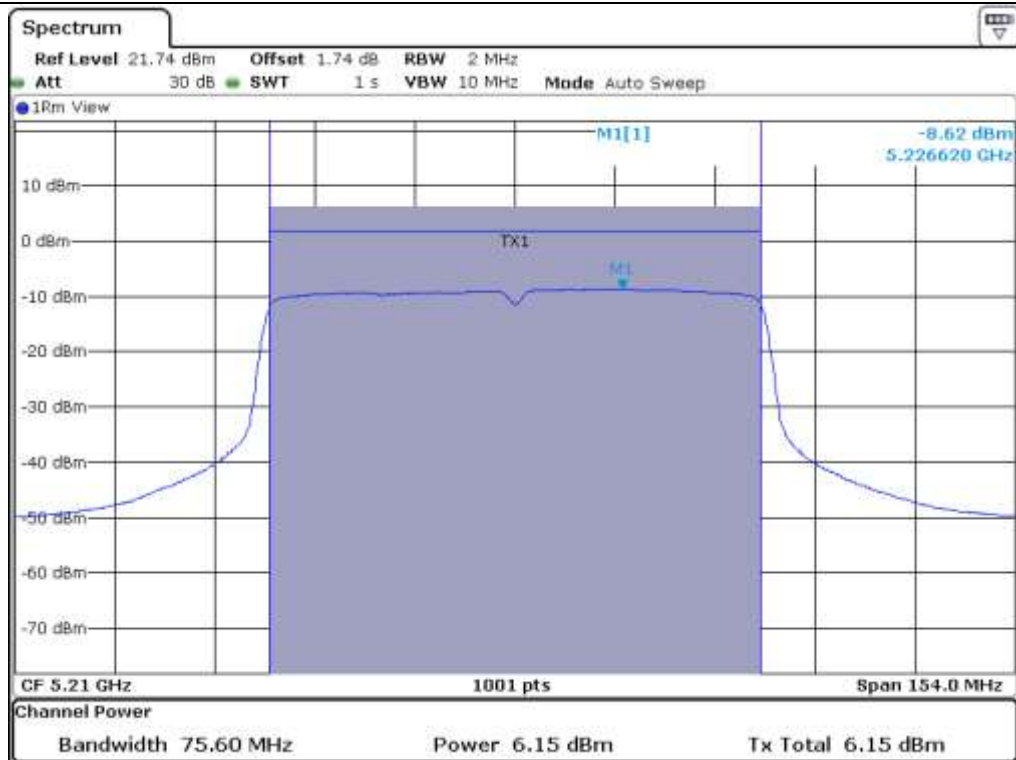
Tested by: Jun-Hui, Lee / Senior Engineer



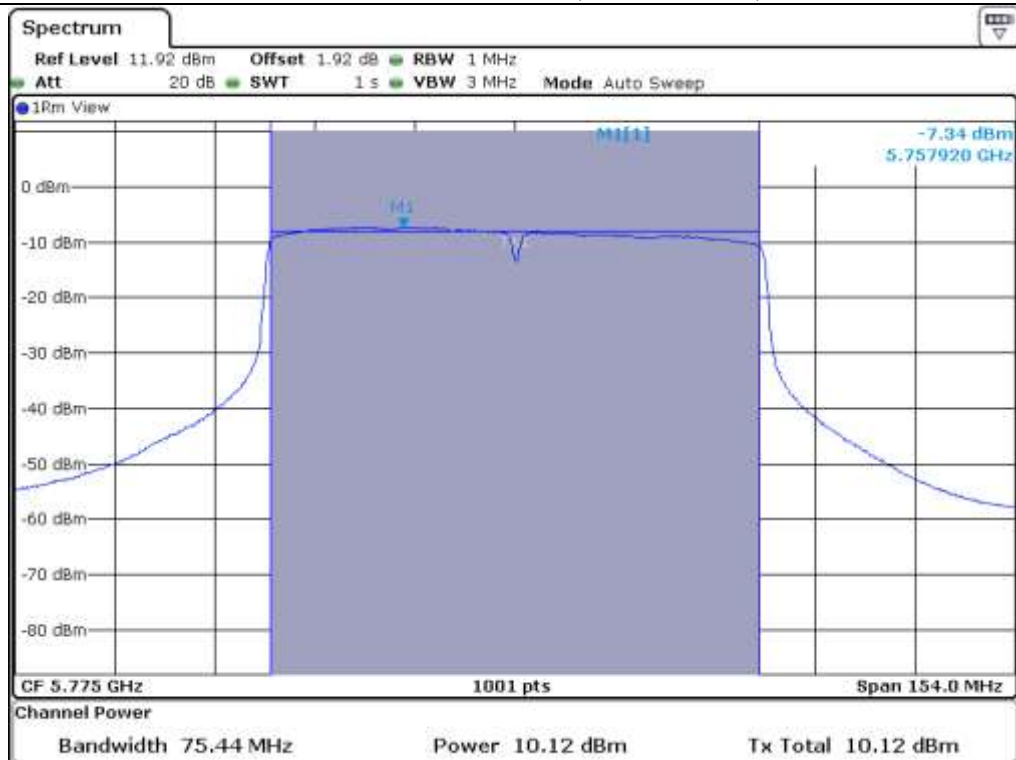
Low Channel @ 5 210 MHz (26 dB Bandwidth)



Low Channel @ 5 775 MHz (26 dB Bandwidth)



Low Channel @ 5 210 MHz (99 % bandwidth)



Low Channel @ 5 775 MHz (99 % bandwidth)

8.9.2 Test data for Antenna 1

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 210	81.68	9.34	29.47	20.13
5 725 ~ 5 850	Low	5 775	81.57	9.96	29.59	19.63

Remark: See next page for measurement data.

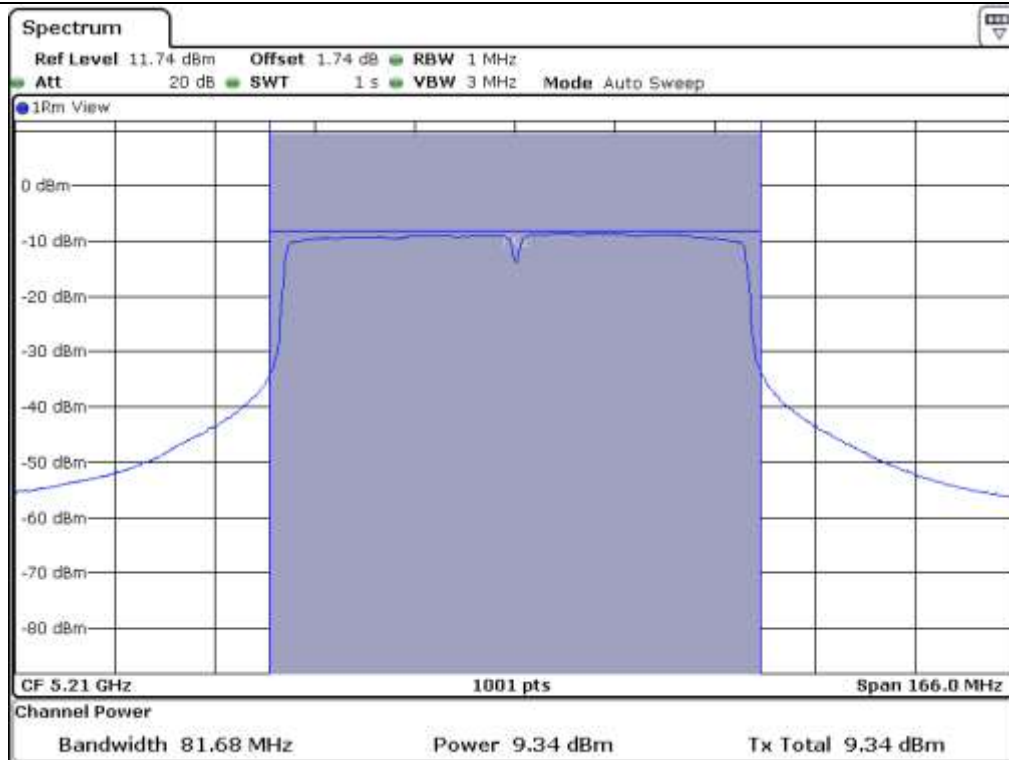
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 210	6.53	75.60	6.54	23.00	9.93	13.07
5 725 ~ 5 850	Low	5 775	6.42	75.44	9.86	29.59	19.73	-

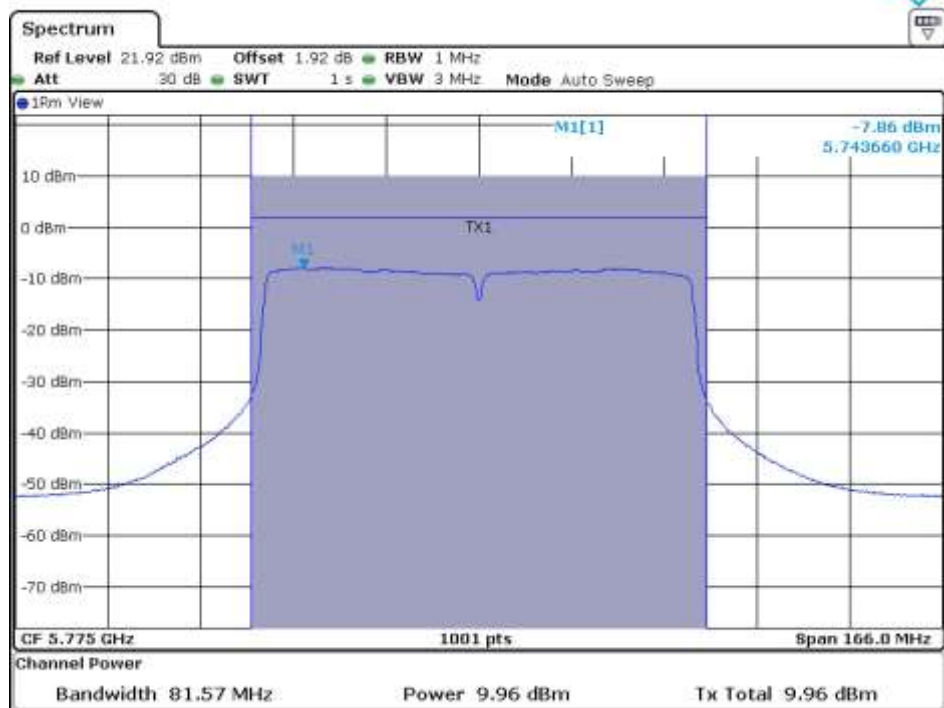
Remark: See next page for measurement data.



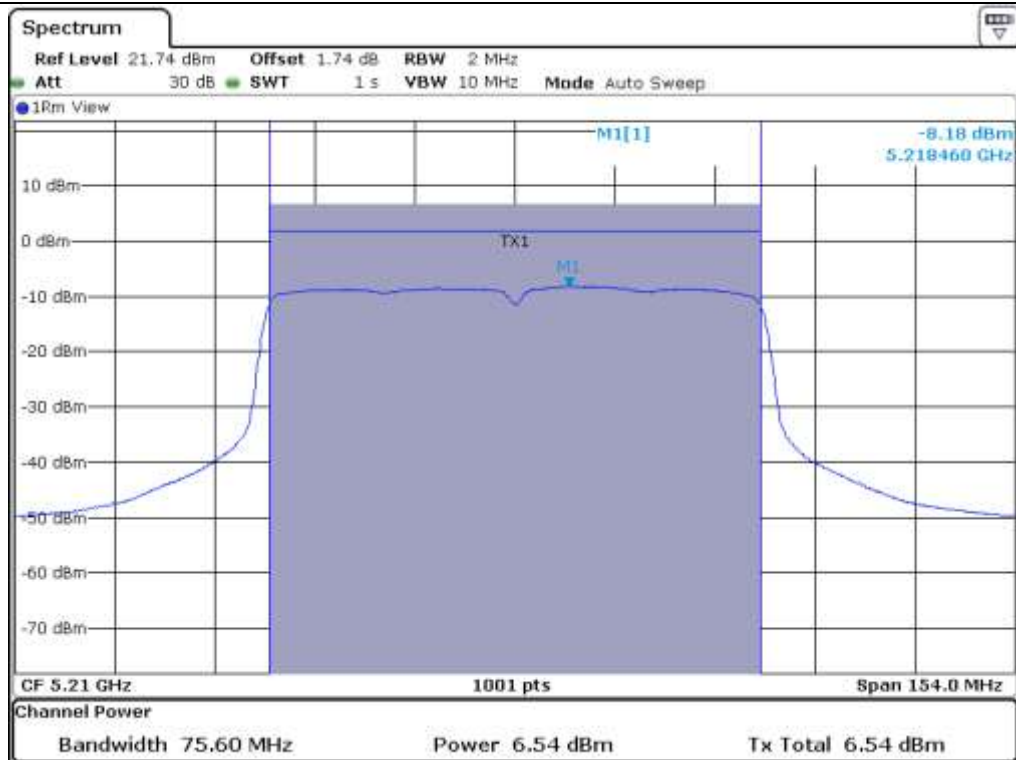
Tested by: Jun-Hui, Lee / Senior Engineer



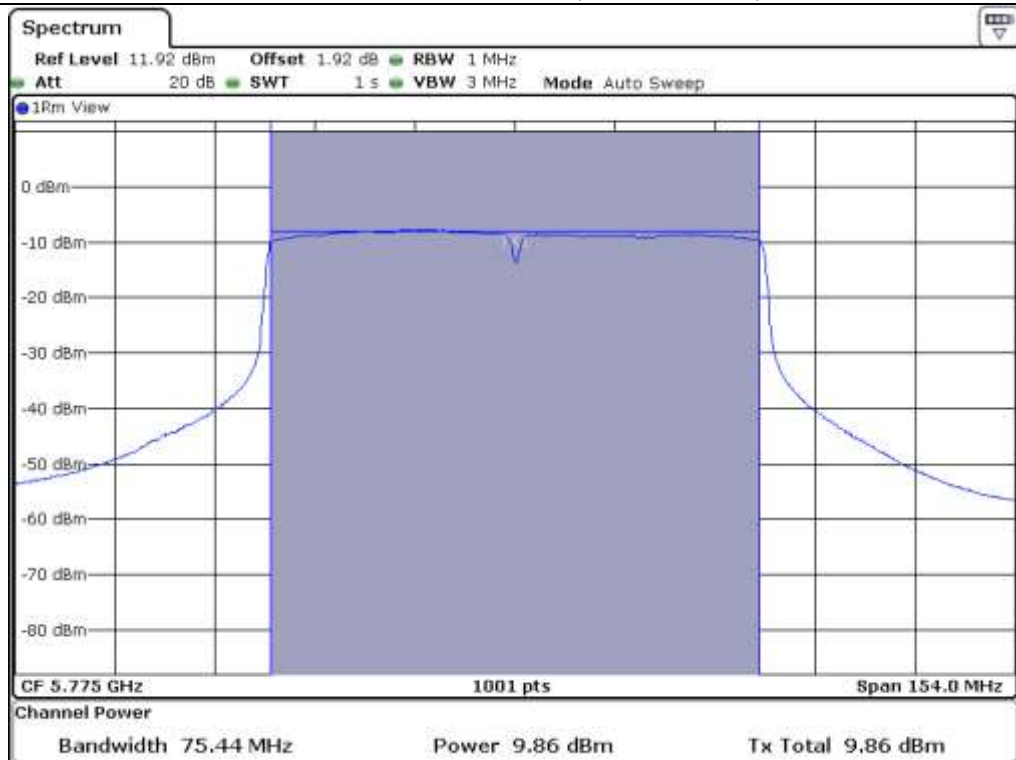
Low Channel @ 5 210 MHz (26 dB Bandwidth)



Low Channel @ 5 775 MHz (26 dB Bandwidth)



Low Channel @ 5 210 MHz (99 % bandwidth)



Low Channel @ 5 775 MHz (99 % bandwidth)

8.9.3 Test data for Antenna 2

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 210	81.20	9.27	29.47	20.20
5 725 ~ 5 850	Low	5 775	81.84	10.16	29.59	19.43

Remark: See next page for measurement data.

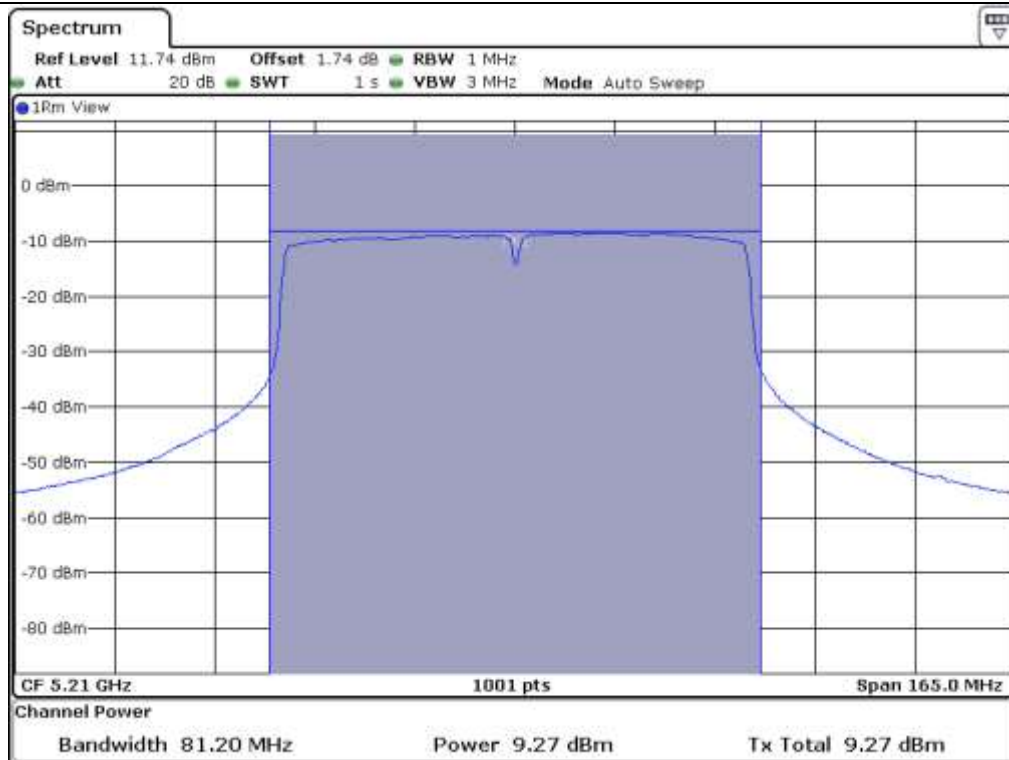
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 210	6.53	75.44	5.91	23.00	10.56	12.44
5 725 ~ 5 850	Low	5 775	6.42	75.60	9.18	29.59	20.41	-

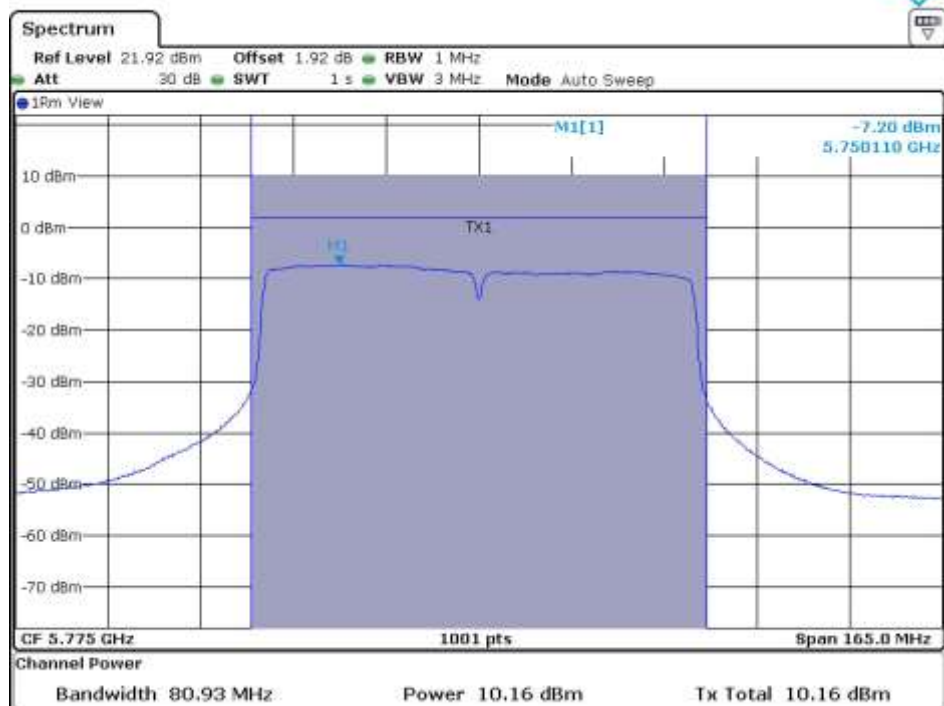
Remark: See next page for measurement data.



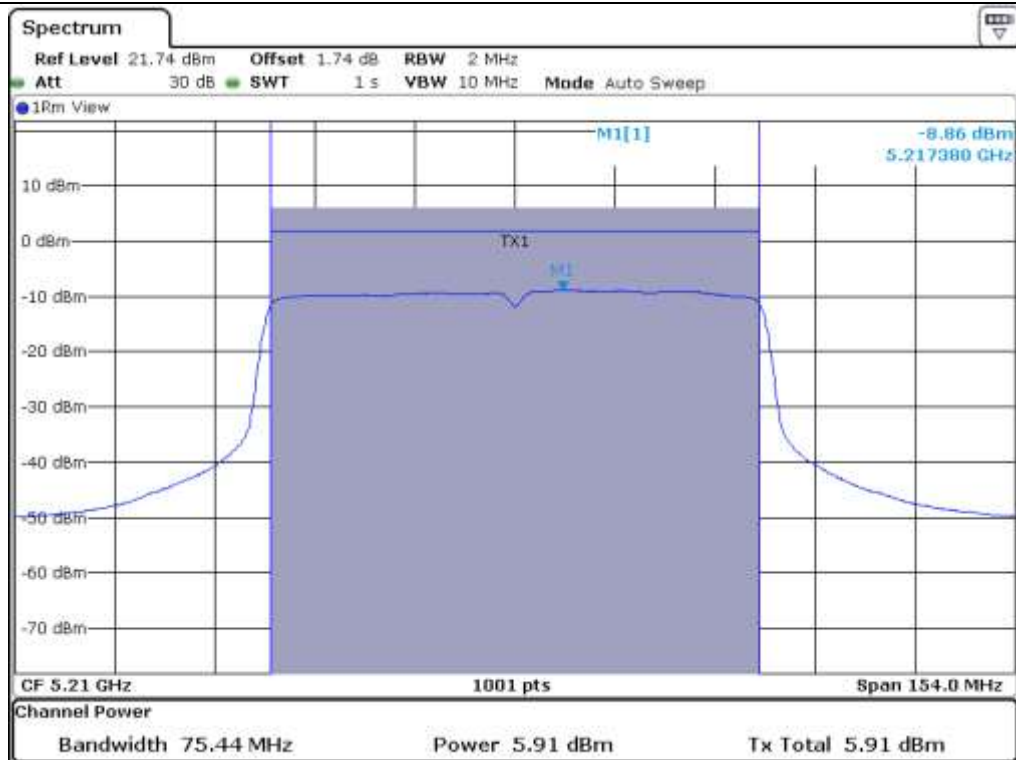
Tested by: Jun-Hui, Lee / Senior Engineer



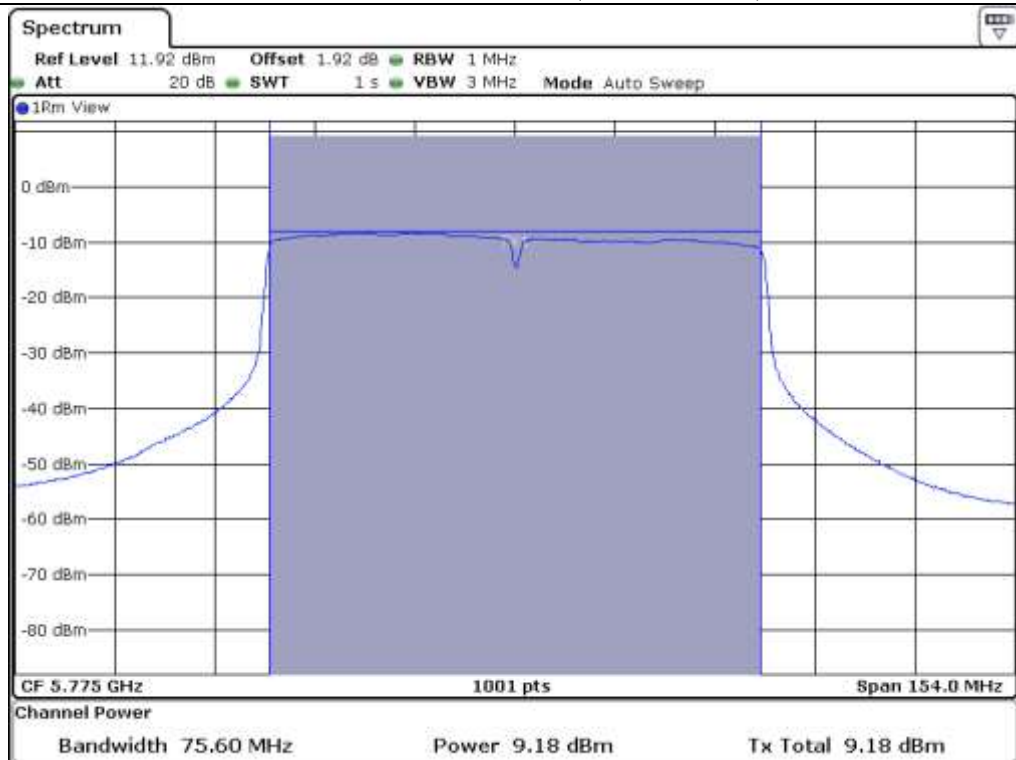
Low Channel @ 5 210 MHz (26 dB Bandwidth)



Low Channel @ 5 775 MHz (26 dB Bandwidth)



Low Channel @ 5 210 MHz (99 % bandwidth)



Low Channel @ 5 775 MHz (99 % bandwidth)

8.9.4 Test data for Multiple transmit

-. Test Date : May 02, 2016

-. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 210	14.34	24.70	10.36
5 725 ~ 5 850	Low	5 775	14.80	24.81	10.01

Remark 1 : Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Remark 2 :Calculated Output Power= $10\log (10^{(\text{Antenna1 Output Power}/10)}+10^{(\text{Antenna2 Output Power}/10)})$

-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	99 % bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 210	11.30	75.6	10.98	23.00	0.72	22.28
5 725 ~ 5 850	Low	5 775	11.19	75.6	14.51	24.81	10.30	-

Remark 1 : Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Remark 2 :Calculated Output Power= $10\log (10^{(\text{Antenna1 Output Power}/10)}+10^{(\text{Antenna2 Output Power}/10)})$

Tested by: Jun-Hui, Lee / Senior Engineer

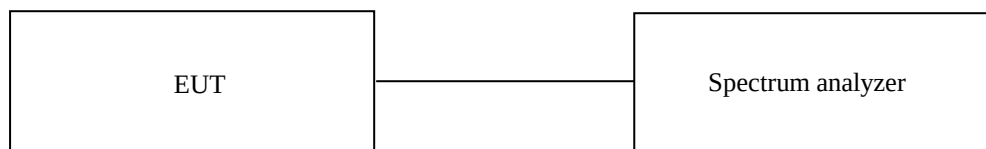
9. PEAK POWER SPECTRUL DENSITY

9.1 Operating environment

Temperature : 24 °C
Relative humidity : 47 % R.H.

9.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 1 MHz, the video bandwidth is set to 3 times the resolution bandwidth. The maximum level form the EUT in 1 MHz bandwidth was measured with above condition.



9.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ - FSV40	Rohde & Schwarz	Signal Analyzer	101009	Jul. 22, 2015 (1Y)

All test equipment used is calibrated on a regular basis.

9.4 Test data for 802.11a RLAN Mode

9.4.1 Test data for Antenna 0

- Test Date : May 02, 2016
- Operating condition : Highest Output Power Transmitting Mode
- Test Result : Pass

- FCC Test data

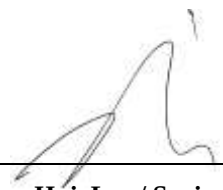
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	1.99	16.47	14.48
	Middle	5 200	1.96	16.47	14.51
	High	5 240	1.59	16.47	14.88
5 725 ~ 5 850	Low	5 745	-4.00	29.59	33.59
	Middle	5 785	2.52	29.59	27.07
	High	5 825	-4.64	29.59	34.23

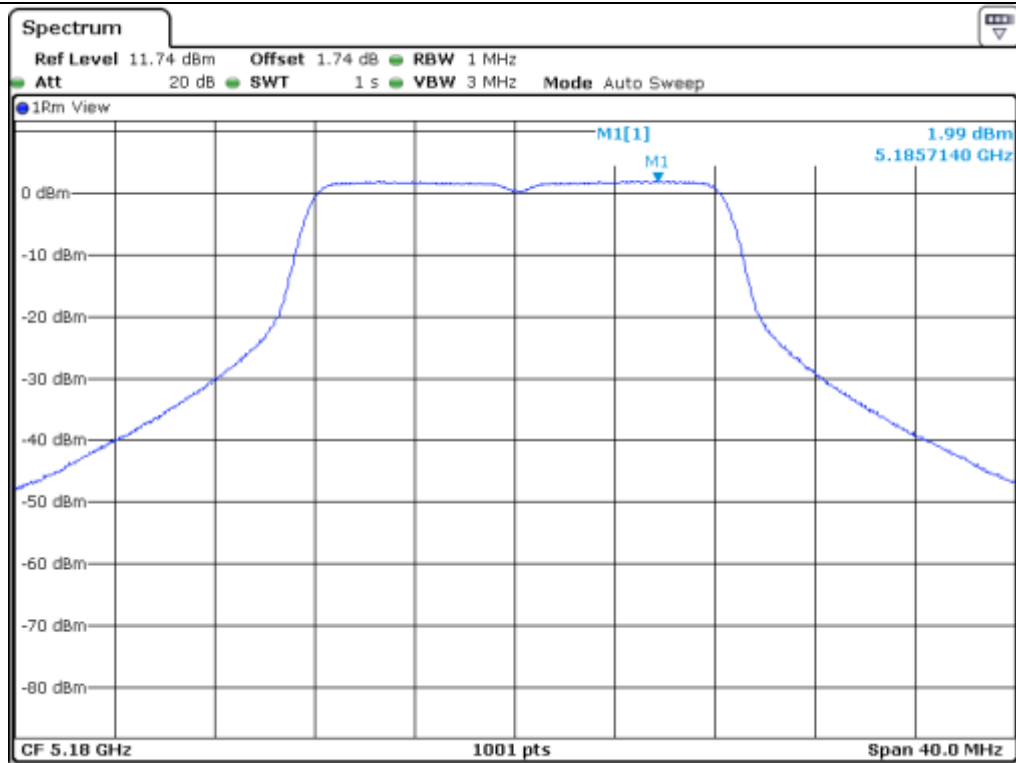
Remark: See next page for measurement data.

- IC Test data

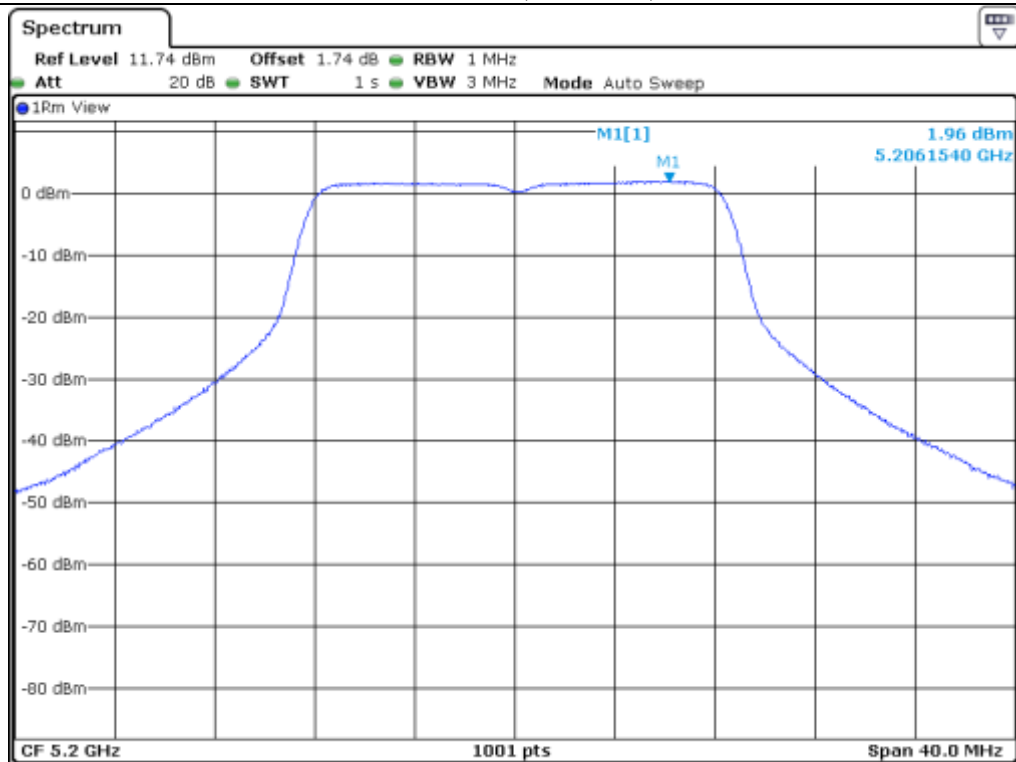
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.533	1.99	10.00	1.48	8.52
	Middle	5 200		1.96	10.00	1.51	8.49
	High	5 240		1.59	10.00	1.88	8.12
5 725 ~ 5 825	Low	5 745	6.415	-4.00	29.59	33.59	-
	Middle	5 785		2.52	29.59	27.07	-
	High	5 825		-4.64	29.59	34.23	-

Remark: See next page for measurement data.

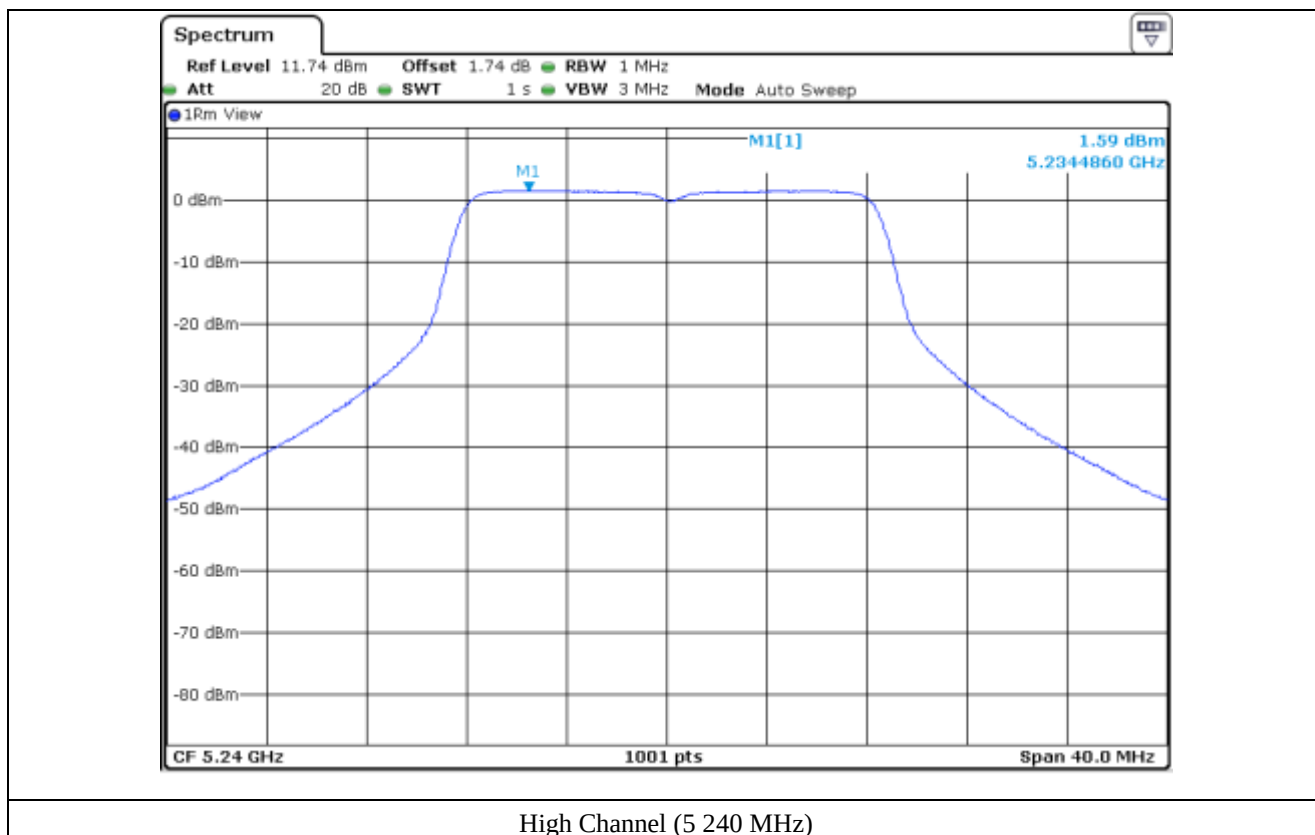

Tested by: Jun-Hui, Lee / Senior Engineer



Low Channel (5 180 MHz)

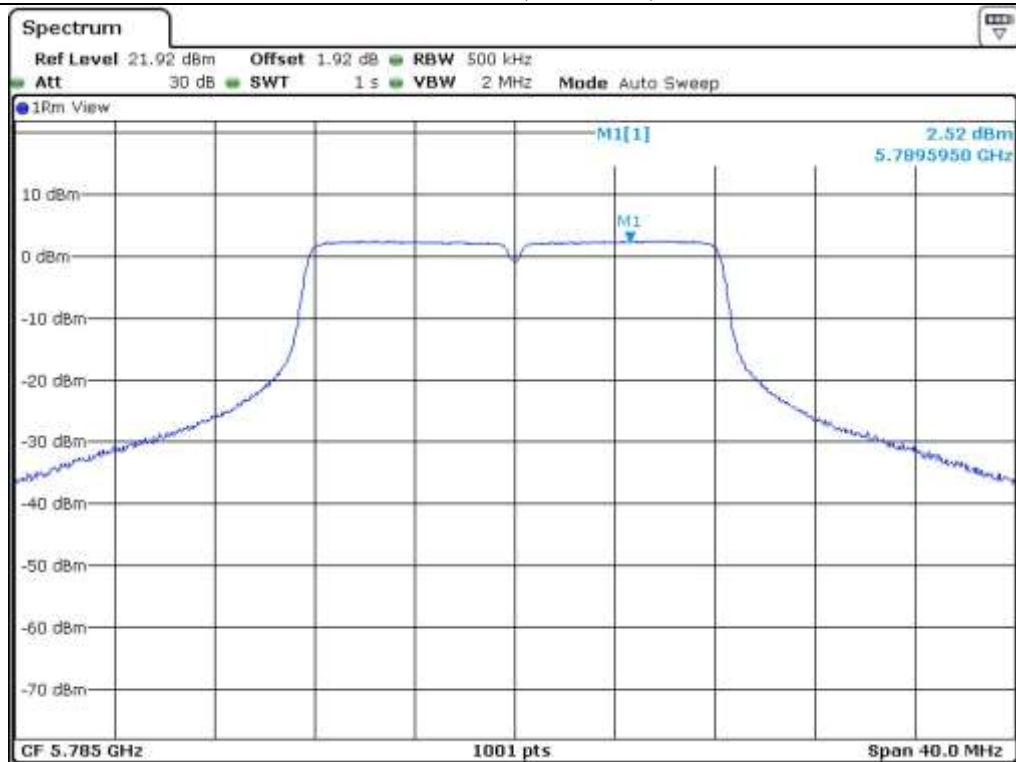


Middle Channel (5 200 MHz)





Low Channel (5.745 MHz)



Middle Channel (5.785 MHz)



High Channel (5 825 MHz)

9.4.2 Test data for Antenna 1

- Test Date : May 02, 2016
- Operating condition : Highest Output Power Transmitting Mode
- Test Result : Pass

- FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	1.14	16.47	15.33
	Middle	5 200	1.24	16.47	15.23
	High	5 240	1.50	16.47	14.97
5 725 ~ 5 850	Low	5 745	-3.71	29.59	33.30
	Middle	5 785	3.01	29.59	26.58
	High	5 825	-5.00	29.59	34.59

Remark: See next page for measurement data.

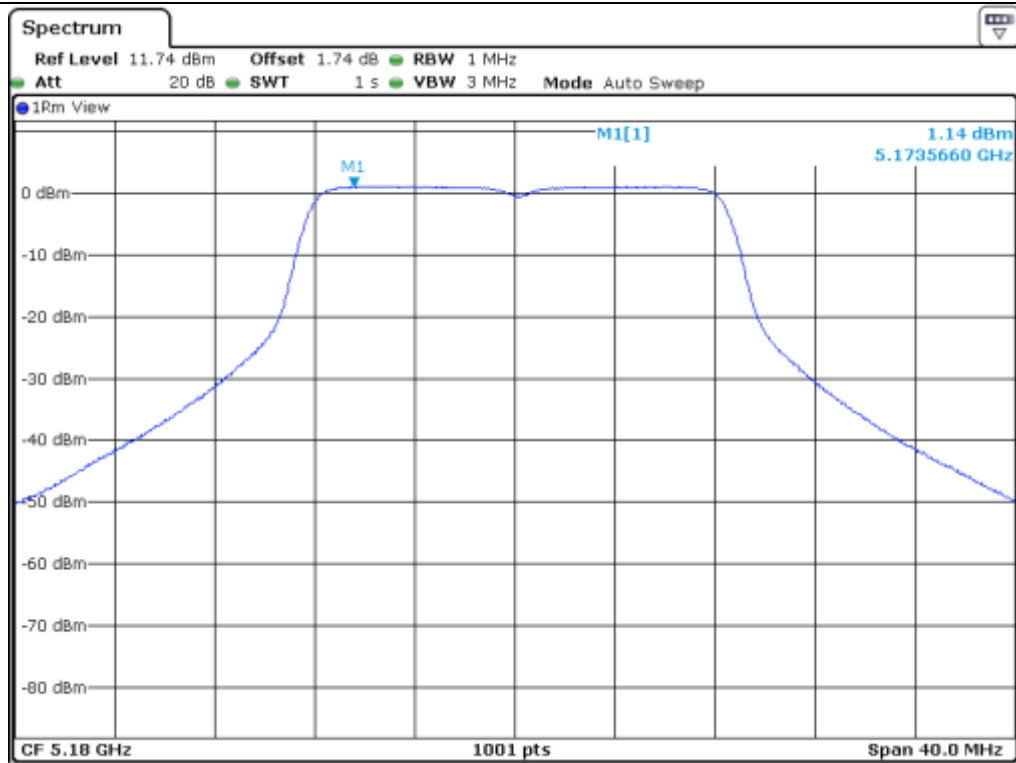
- IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.533	1.14	10.00	2.33	7.67
	Middle	5 200		1.24	10.00	2.23	7.77
	High	5 240		1.50	10.00	1.97	8.03
5 725 ~ 5 825	Low	5 745	6.415	-3.71	29.59	33.30	-
	Middle	5 785		3.01	29.59	26.58	-
	High	5 825		-5.00	29.59	34.59	-

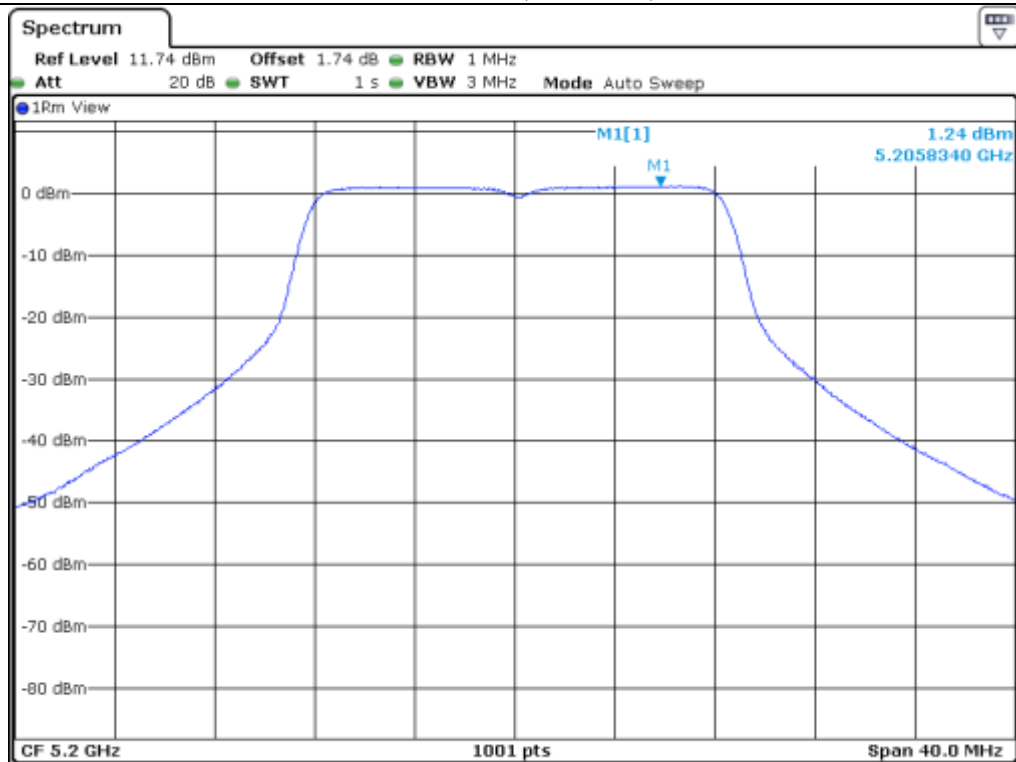
Remark: See next page for measurement data.



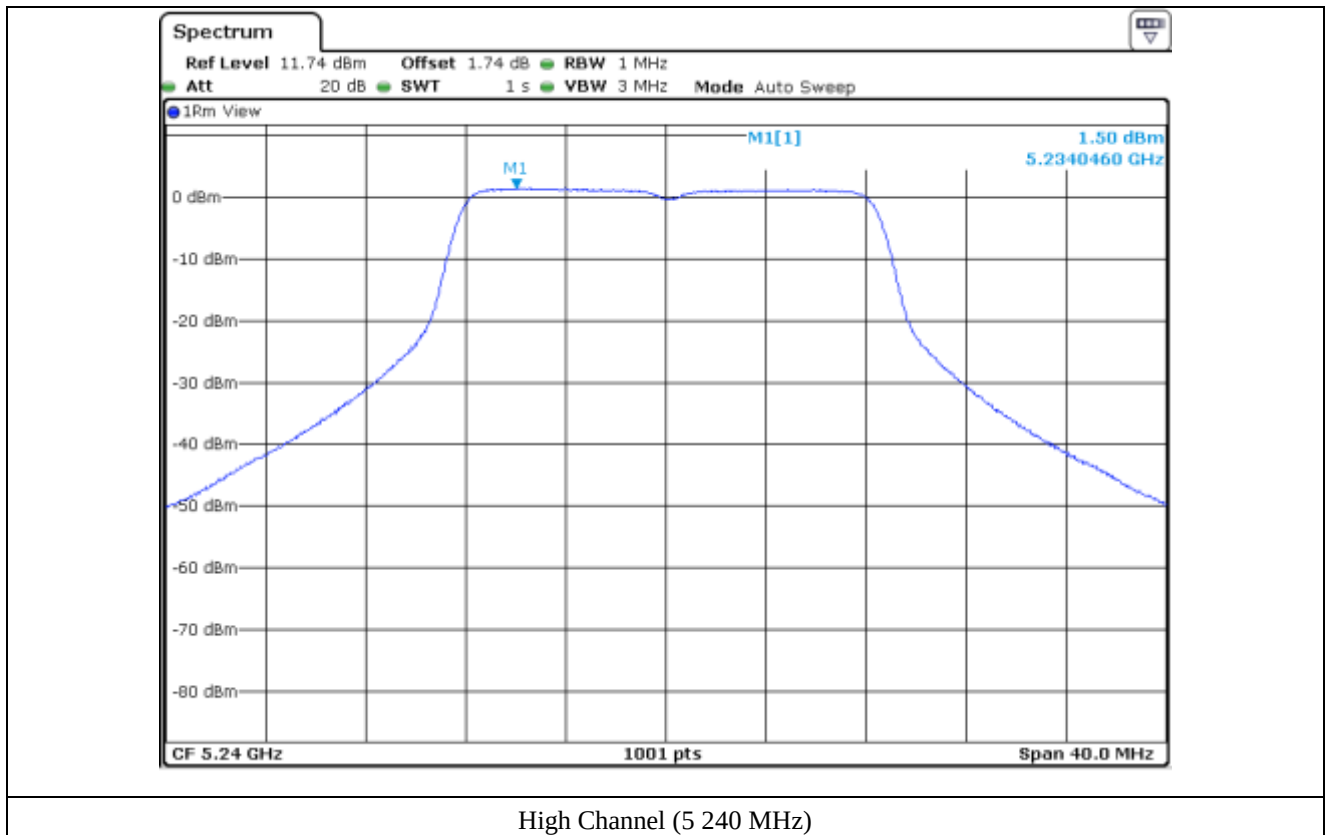
Tested by: Jun-Hui, Lee / Senior Engineer



Low Channel (5 180 MHz)

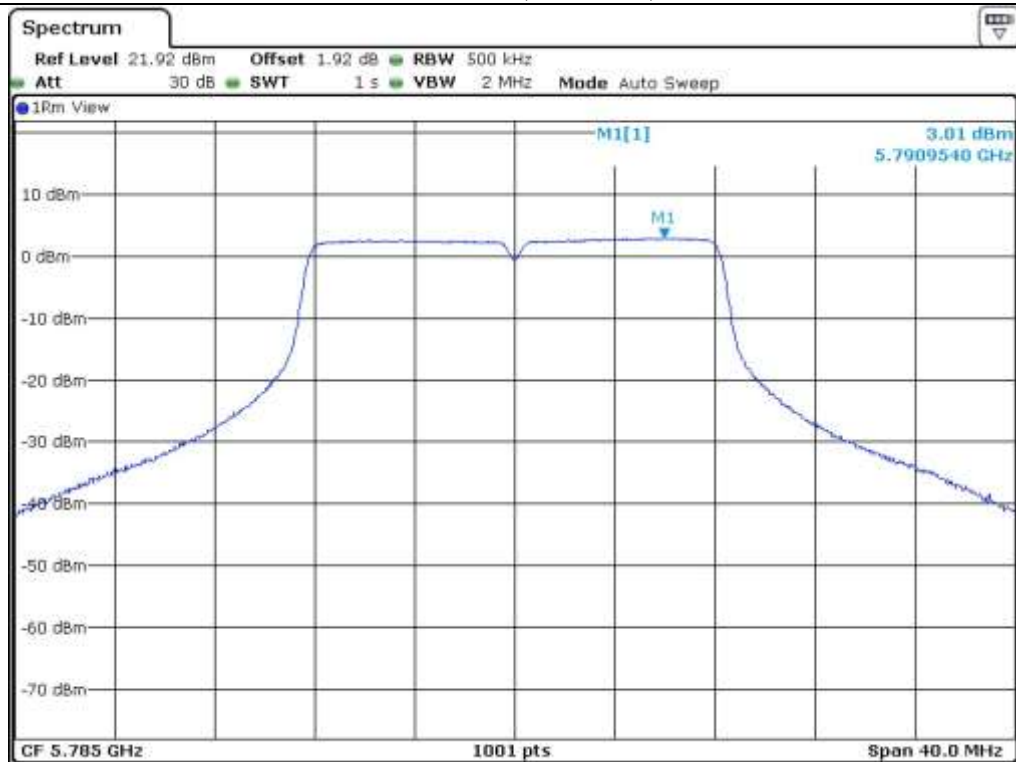


Middle Channel (5 200 MHz)

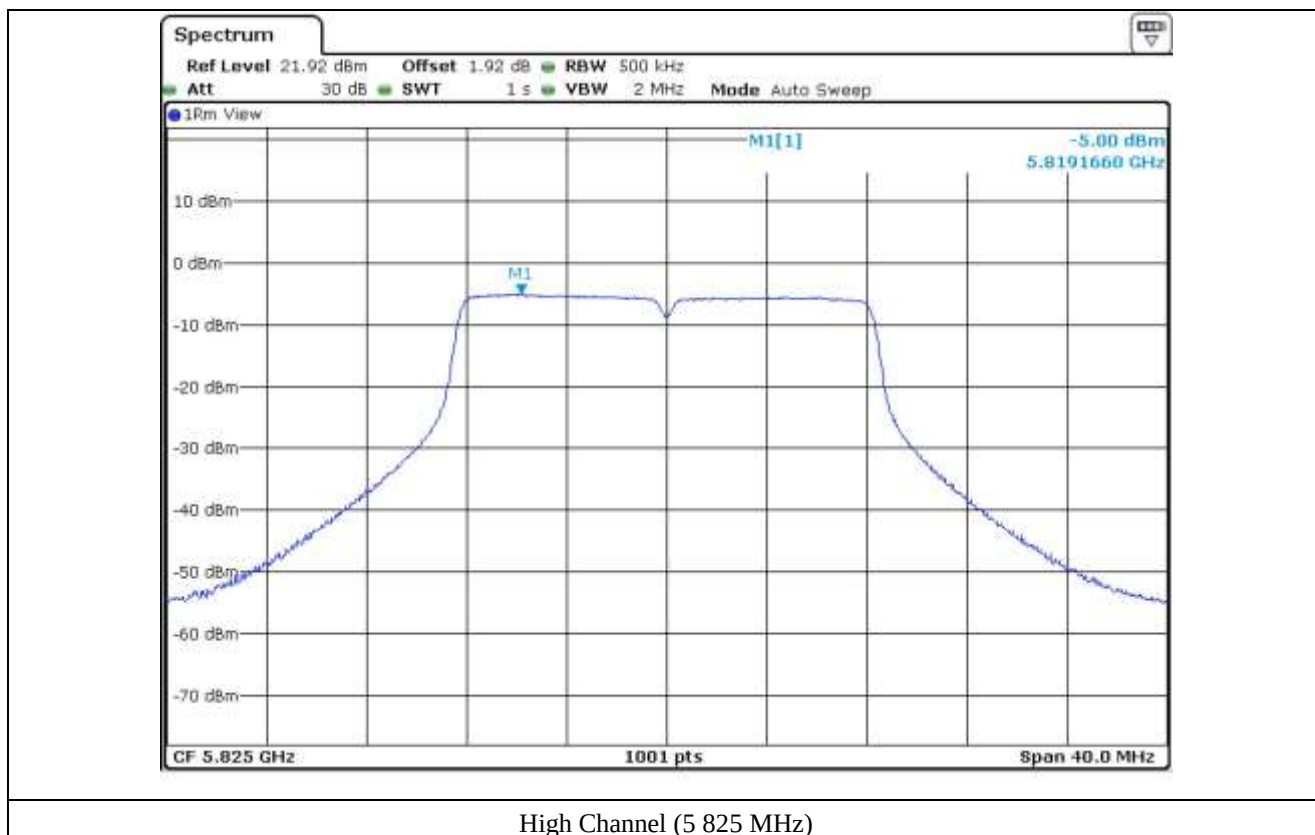




Low Channel (5.745 MHz)



Middle Channel (5.785 MHz)



High Channel (5 825 MHz)

9.4.3 Test data for Antenna 2

- Test Date : May 02, 2016
- Operating condition : Highest Output Power Transmitting Mode
- Test Result : Pass

- FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	1.25	16.47	15.22
	Middle	5 200	1.23	16.47	15.24
	High	5 240	1.30	16.47	15.17
5 725 ~ 5 850	Low	5 745	-3.52	29.59	33.11
	Middle	5 785	2.57	29.59	27.02
	High	5 825	-4.32	29.59	33.91

Remark: See next page for measurement data.

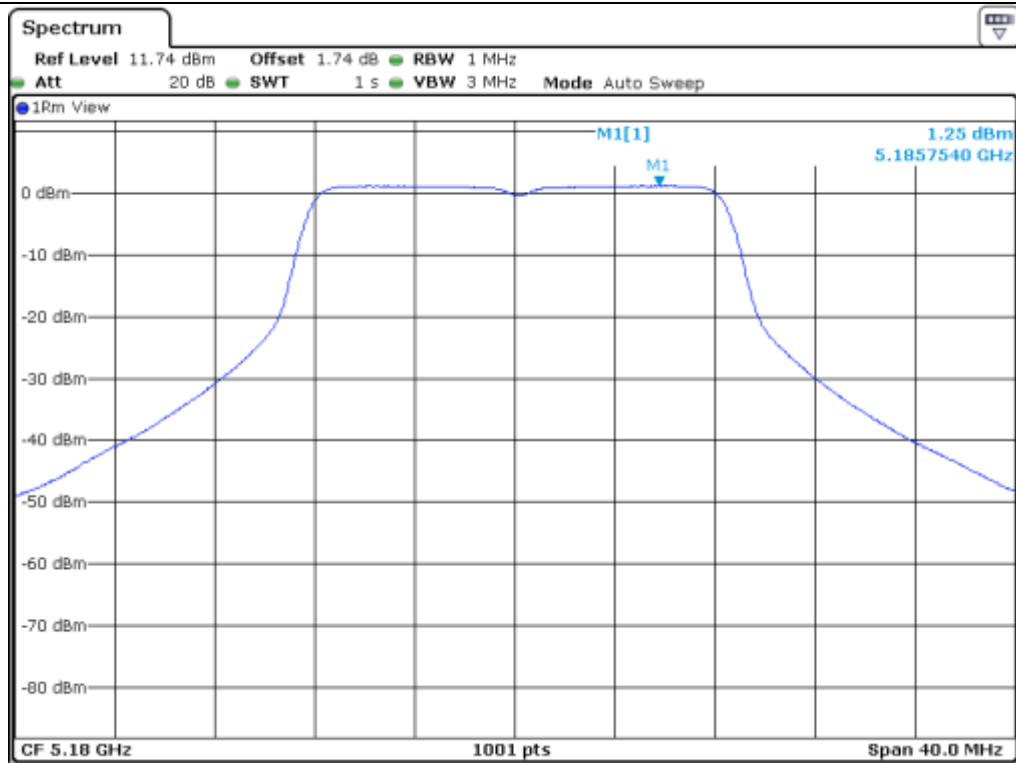
- IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.533	1.25	10.00	2.22	7.78
	Middle	5 200		1.23	10.00	2.24	7.76
	High	5 240		1.30	10.00	2.17	7.83
5 725 ~ 5 825	Low	5 745	6.415	-3.52	29.59	33.11	-
	Middle	5 785		2.57	29.59	27.02	-
	High	5 825		-4.32	29.59	33.91	-

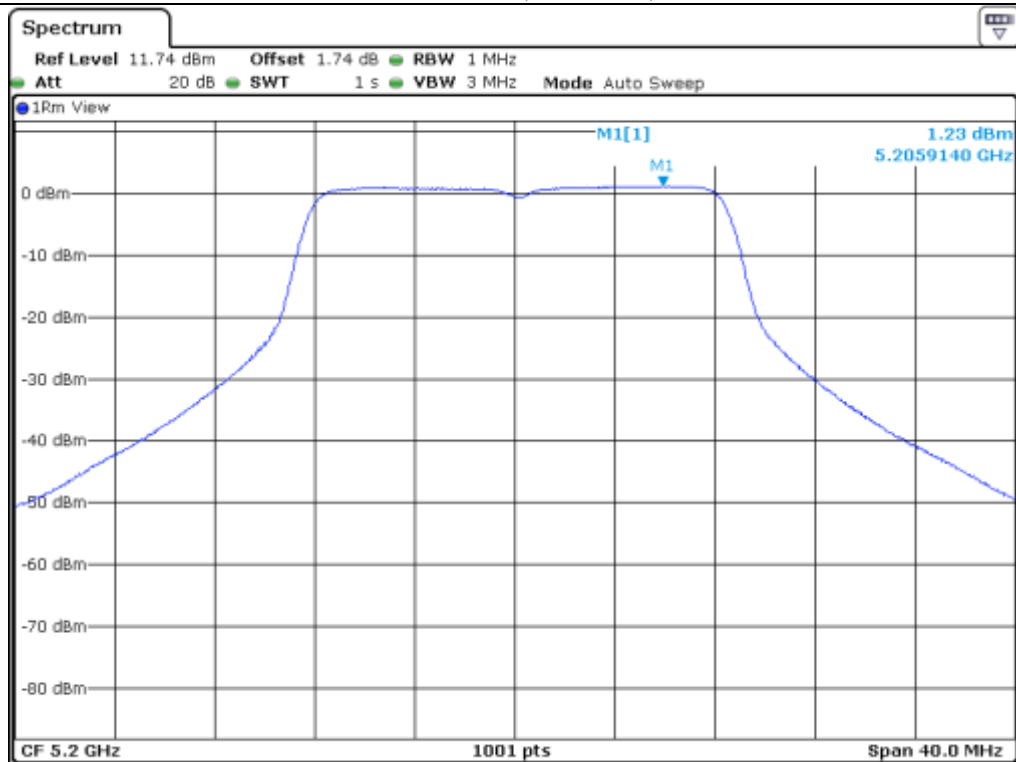
Remark: See next page for measurement data.



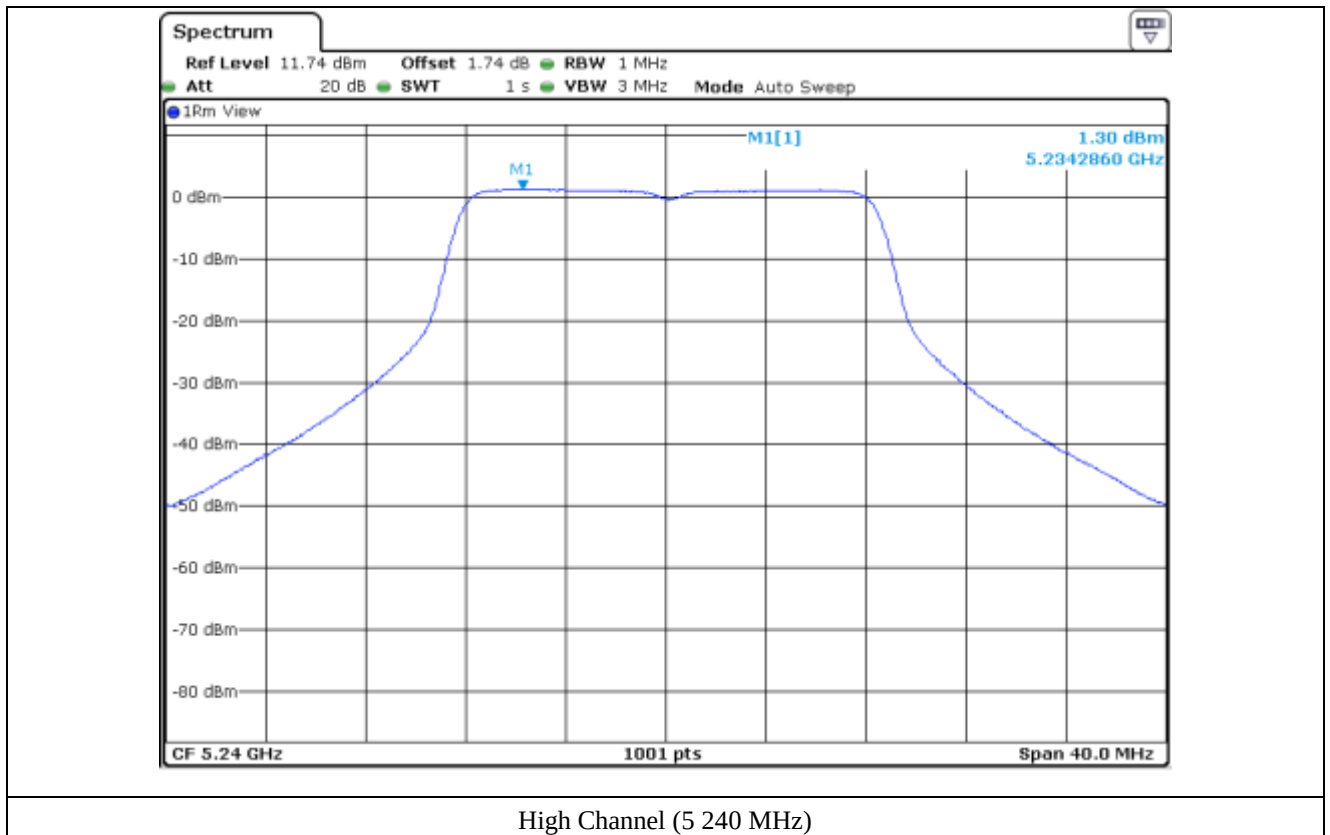
Tested by: Jun-Hui, Lee / Senior Engineer

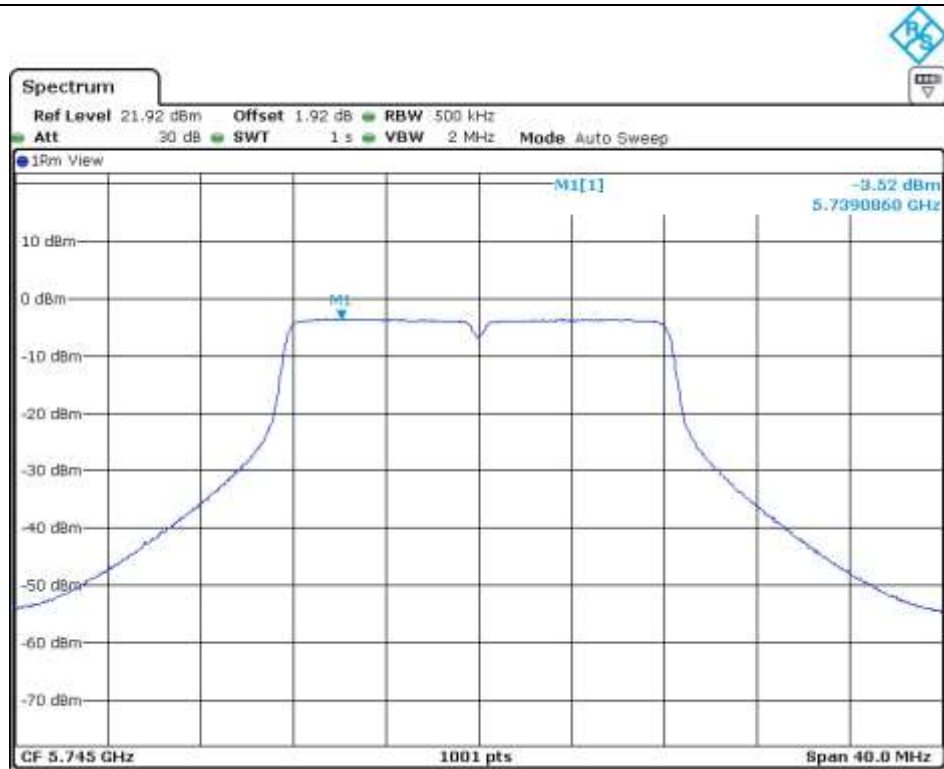


Low Channel (5 180 MHz)

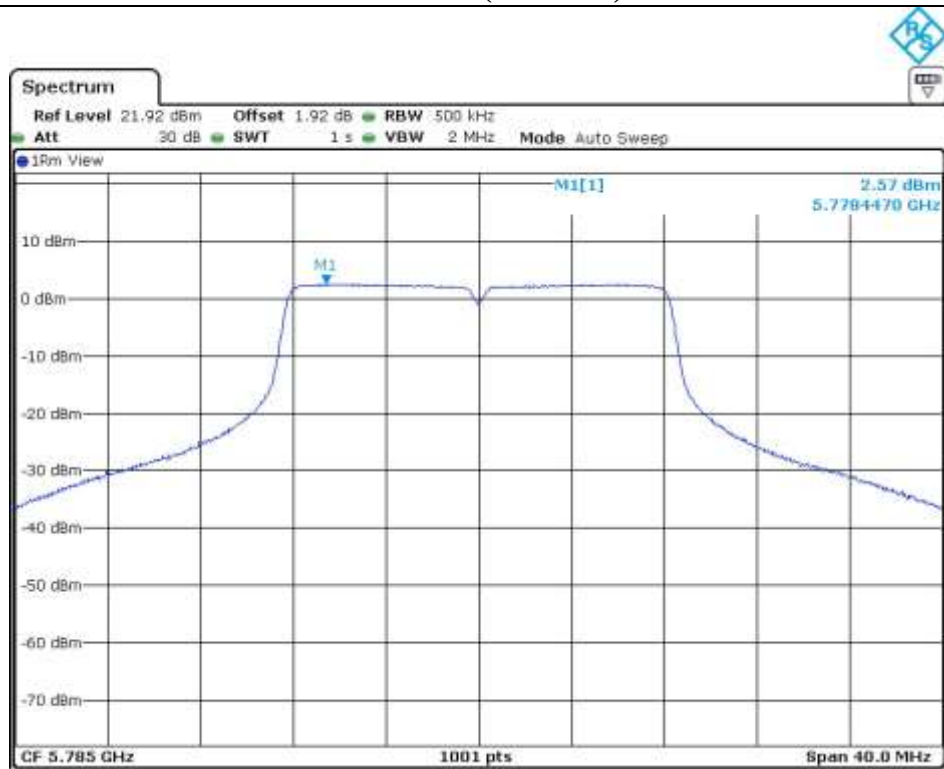


Middle Channel (5 200 MHz)

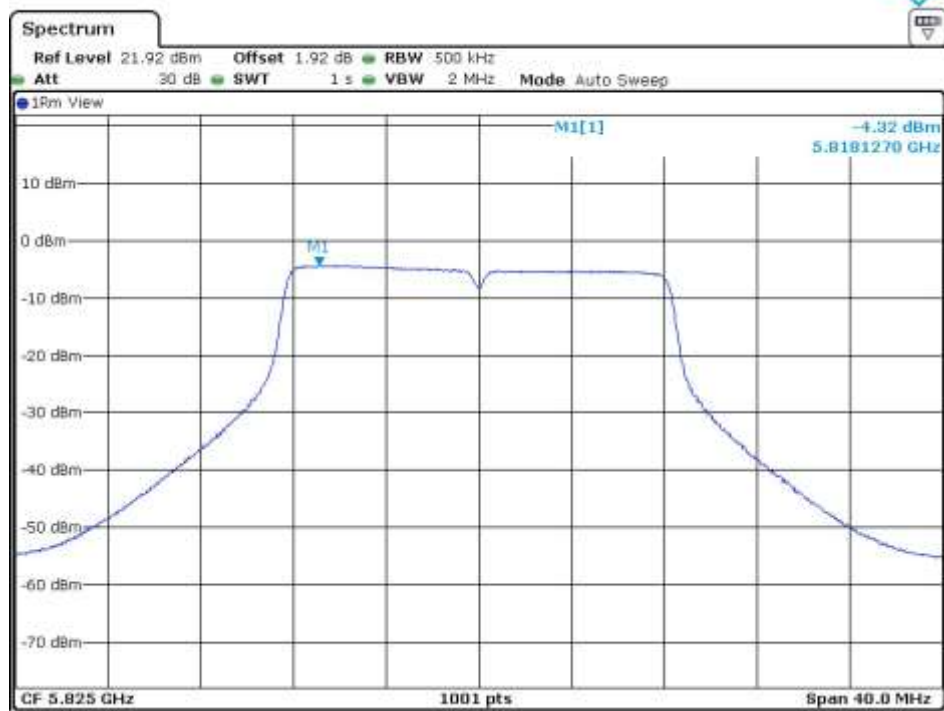




Low Channel (5 745 MHz)



Middle Channel (5 785 MHz)



High Channel (5 825 MHz)

9.5 Test data for 802.11n_HT20 RLAN Mode

9.5.1 Test data for Antenna 0

-. Test Date : May 02, 2016
 -. Operating condition : Highest Output Power Transmitting Mode
 -. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	-6.46	16.47	22.93
	Middle	5 200	-6.27	16.47	22.74
	High	5 240	-6.49	16.47	22.96
5 725 ~ 5 850	Low	5 745	-5.94	29.59	35.53
	Middle	5 785	1.39	29.59	28.20
	High	5 825	-6.02	29.59	35.61

Remark: See next page for measurement data.

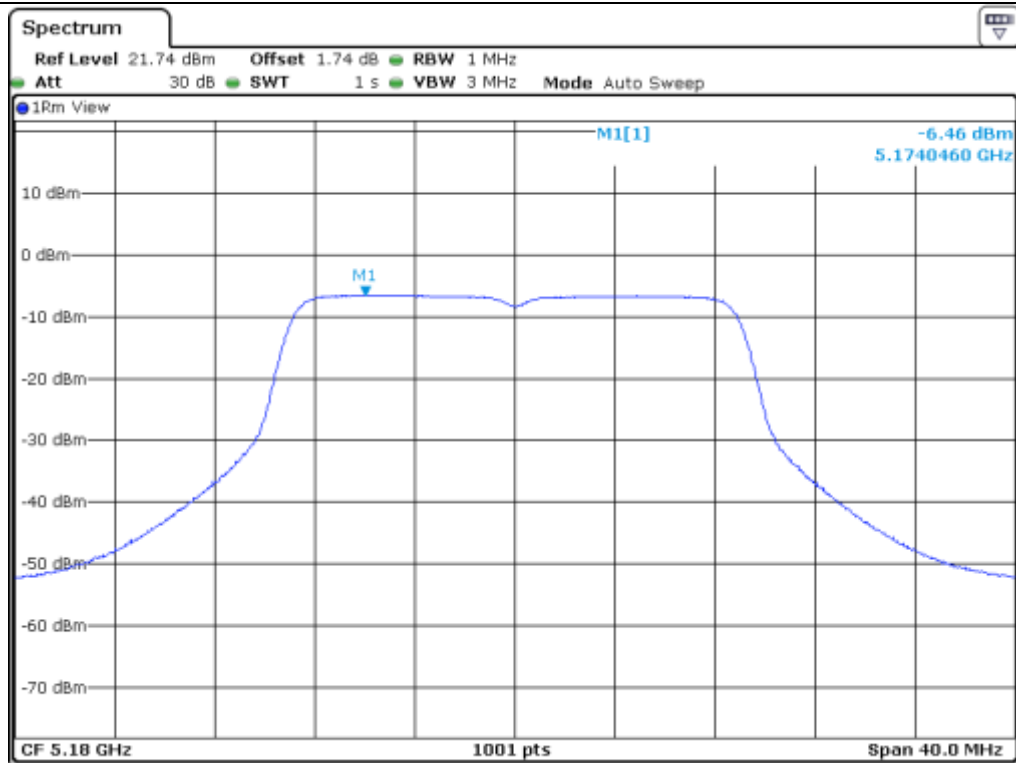
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.533	-6.46	10.00	9.93	0.07
	Middle	5 200		-6.27	10.00	9.74	0.26
	High	5 240		-6.49	10.00	9.96	0.04
5 725 ~ 5 825	Low	5 745	6.415	-5.94	29.59	35.53	-
	Middle	5 785		1.39	29.59	28.20	-
	High	5 825		-6.02	29.59	35.61	-

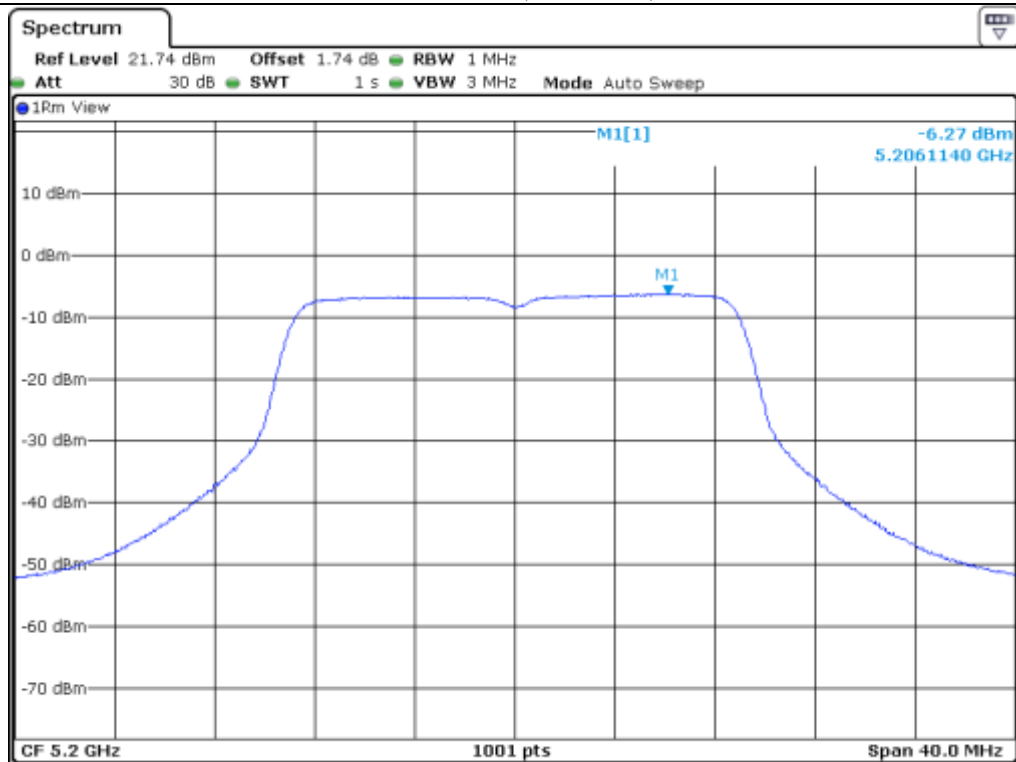
Remark: See next page for measurement data.



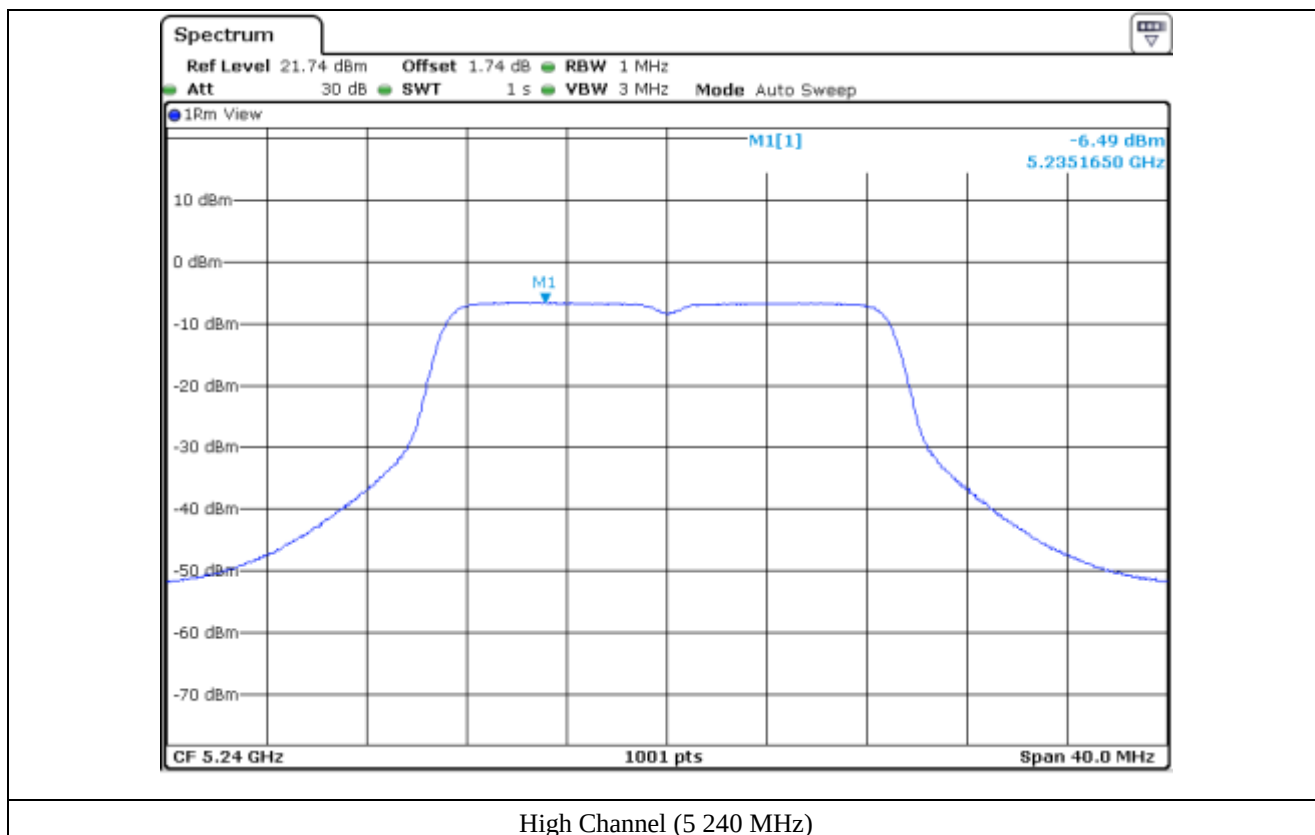
Tested by: Jun-Hui, Lee / Senior Engineer



Low Channel (5 180 MHz)



Middle Channel (5 200 MHz)





Low Channel (5.745 MHz)



Middle Channel (5.785 MHz)



High Channel (5 825 MHz)

9.5.2 Test data for Antenna 1

- Test Date : May 02, 2016
- Operating condition : Highest Output Power Transmitting Mode
- Test Result : Pass

- FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	-6.27	16.47	22.74
	Middle	5 200	-6.53	16.47	23.00
	High	5 240	-6.04	16.47	22.51
5 725 ~ 5 850	Low	5 745	-5.81	29.59	35.40
	Middle	5 785	1.78	29.59	27.81
	High	5 825	-7.44	29.59	37.03

Remark: See next page for measurement data.

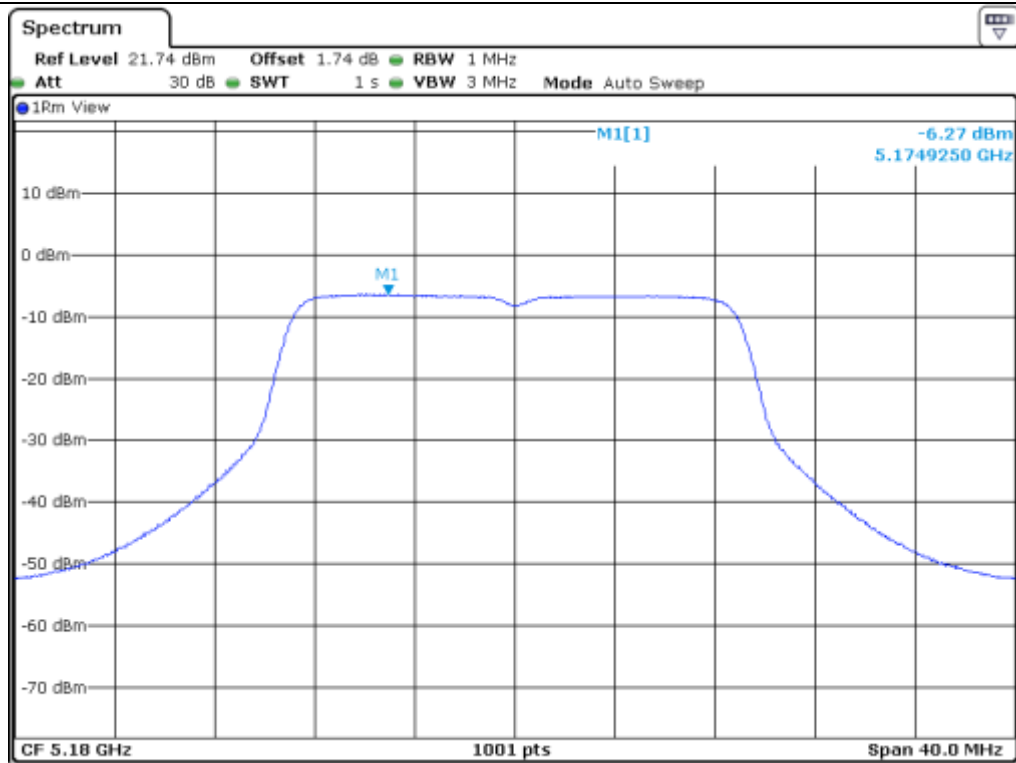
- IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.533	-6.27	10.00	9.74	0.26
	Middle	5 200		-6.53	10.00	10.00	0.00
	High	5 240		-6.04	10.00	9.51	0.49
5 725 ~ 5 825	Low	5 745	6.415	-5.81	29.59	35.40	-
	Middle	5 785		1.78	29.59	27.81	-
	High	5 825		-7.44	29.59	37.03	-

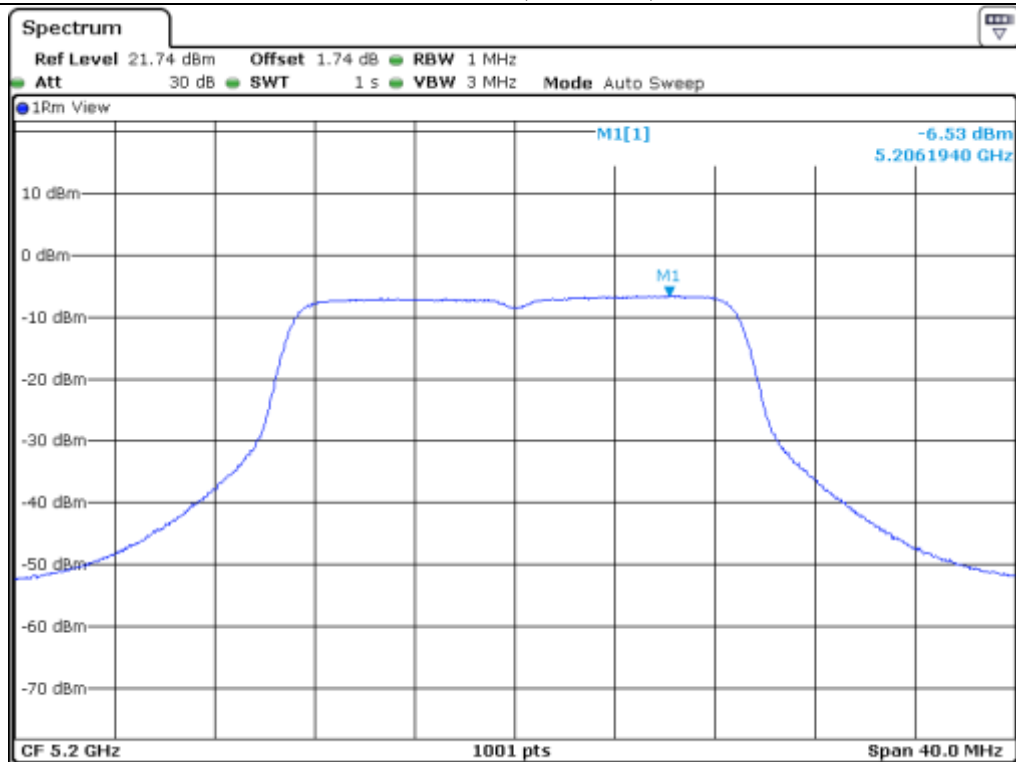
Remark: See next page for measurement data.



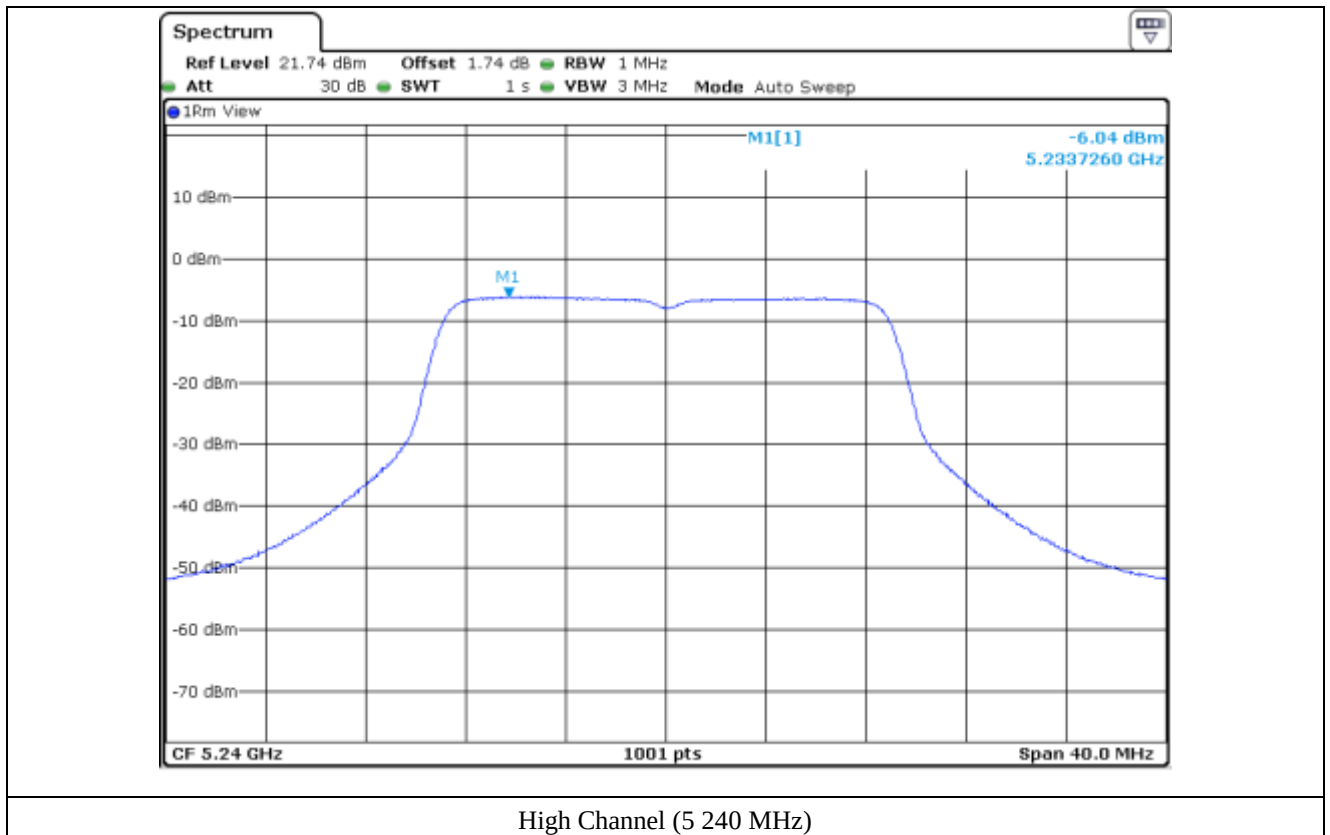
Tested by: Jun-Hui, Lee / Senior Engineer



Low Channel (5 180 MHz)



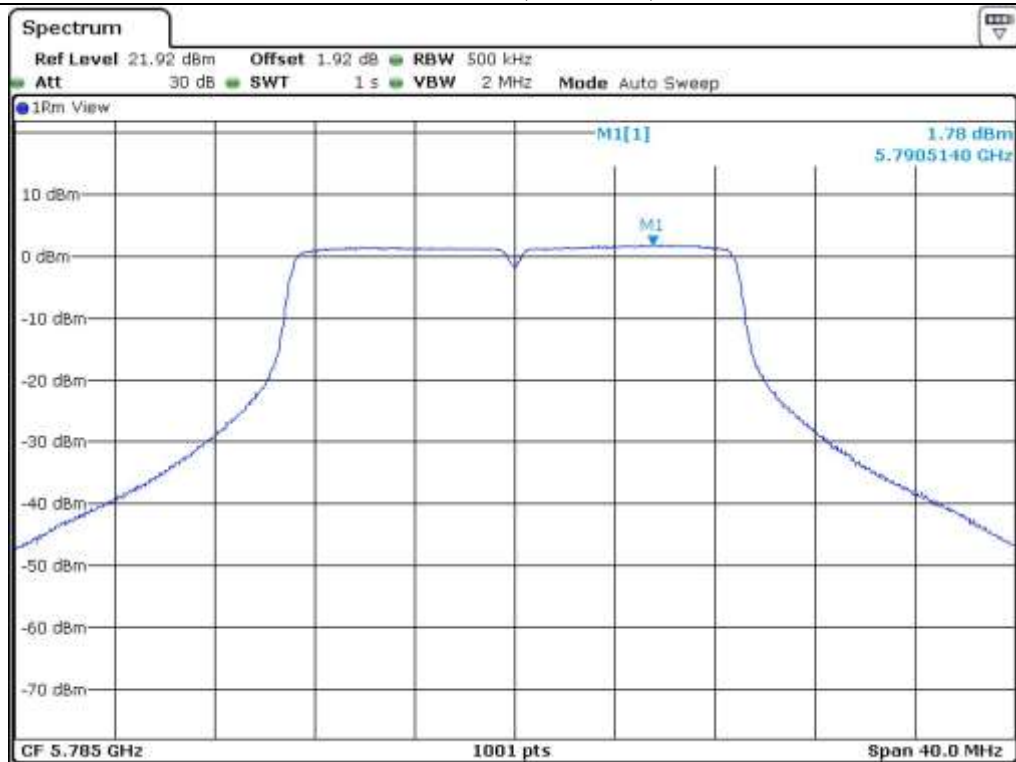
Middle Channel (5 200 MHz)



High Channel (5 240 MHz)



Low Channel (5 745 MHz)



Middle Channel (5 785 MHz)



High Channel (5 825 MHz)

9.5.3 Test data for Antenna 2

- Test Date : May 02, 2016
- Operating condition : Highest Output Power Transmitting Mode
- Test Result : Pass

- FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	-6.83	16.47	23.30
	Middle	5 200	-6.30	16.47	22.77
	High	5 240	-6.35	16.47	22.82
5 725 ~ 5 850	Low	5 745	-6.08	29.59	35.67
	Middle	5 785	1.22	29.59	28.37
	High	5 825	-6.76	29.59	36.35

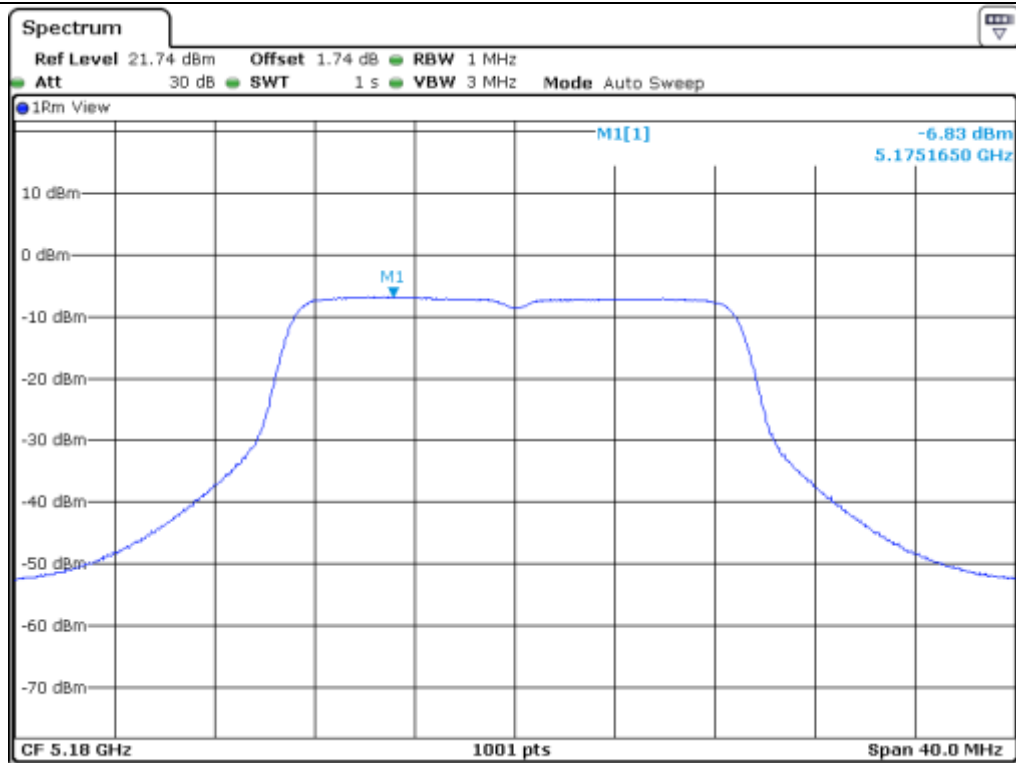
Remark: See next page for measurement data.

- IC Test data

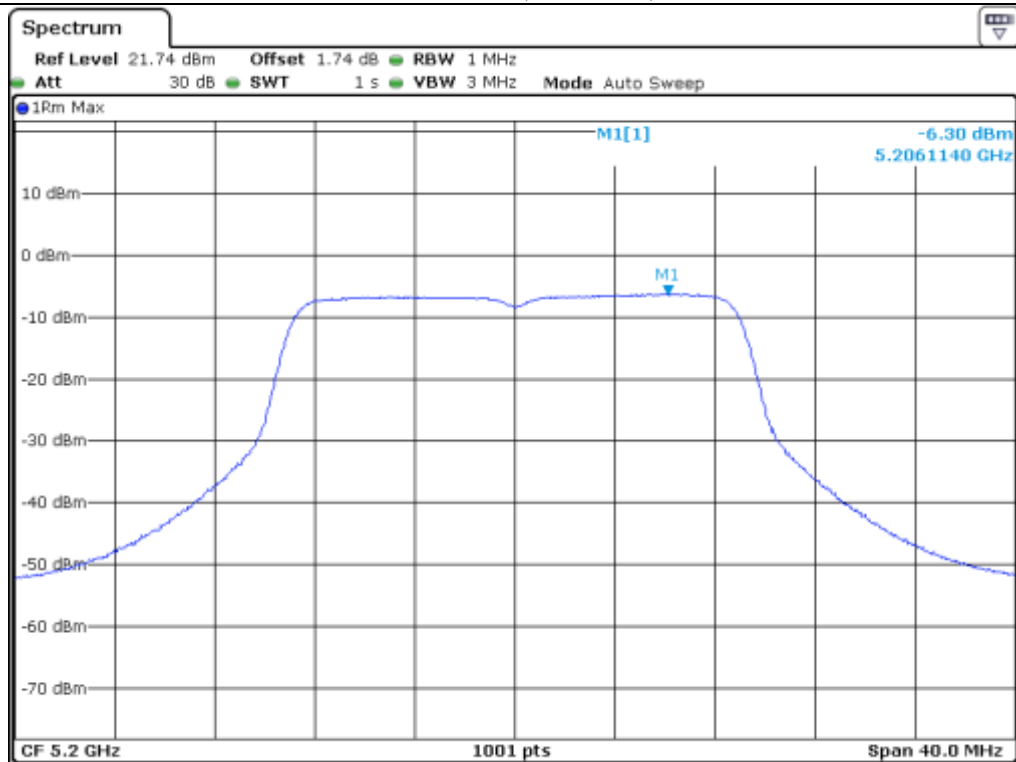
FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	6.533	-6.83	10.00	10.30	-0.30
	Middle	5 200		-6.30	10.00	9.77	0.23
	High	5 240		-6.35	10.00	9.82	0.18
5 725 ~ 5 825	Low	5 745	6.415	-6.08	29.59	35.67	-
	Middle	5 785		1.22	29.59	28.37	-
	High	5 825		-6.76	29.59	36.35	-

Remark: See next page for measurement data.

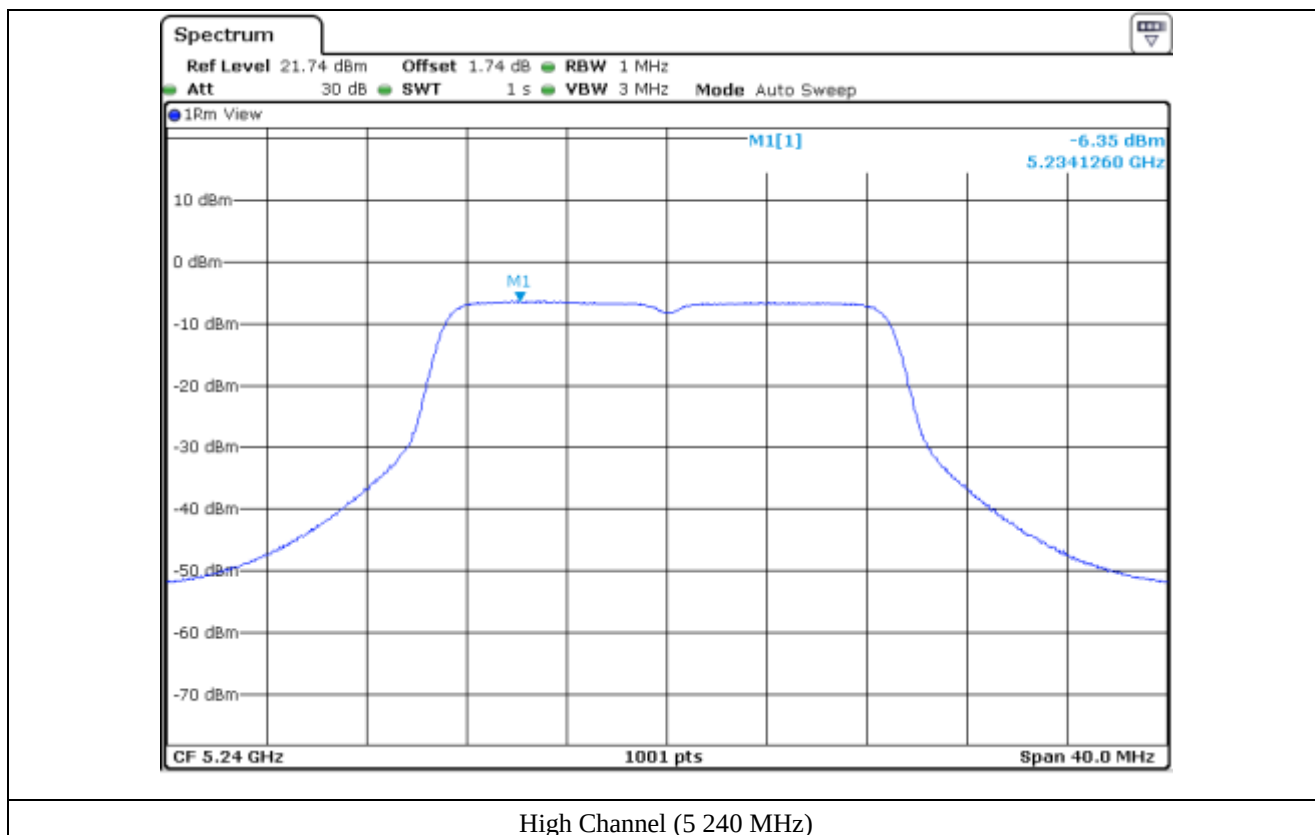
Tested by: Jun-Hui, Lee / Senior Engineer



Low Channel (5 180 MHz)

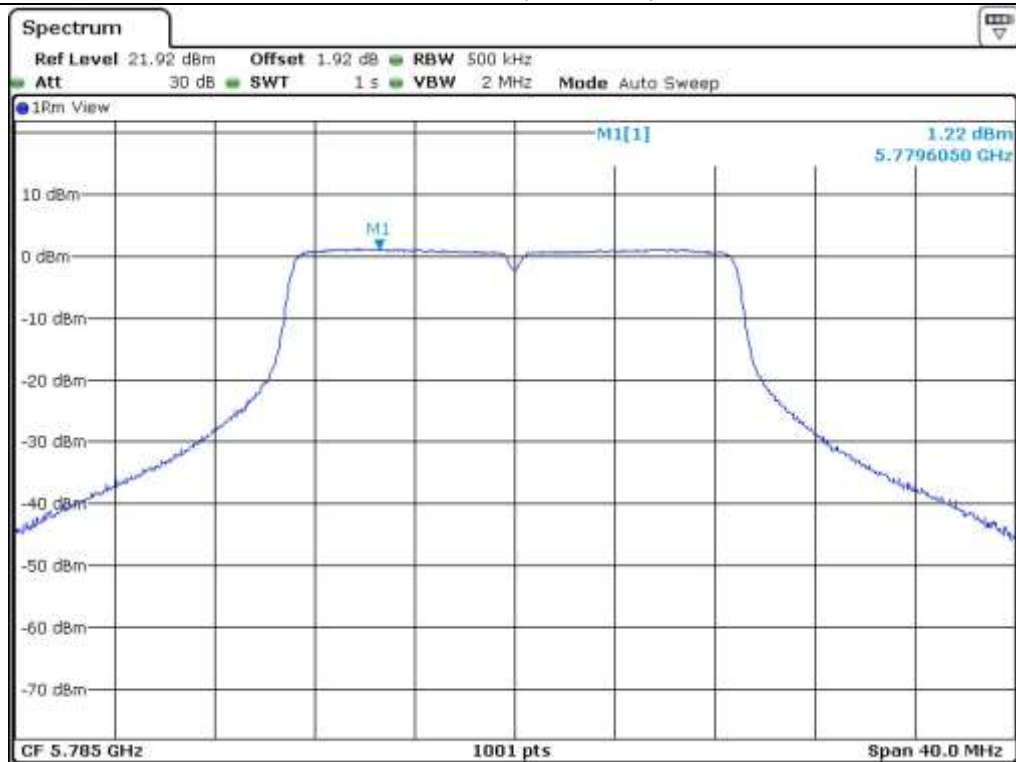


Middle Channel (5 200 MHz)





Low Channel (5.745 MHz)



Middle Channel (5.785 MHz)



High Channel (5 825 MHz)

9.5.4 Test data for Multiple transmit

- . Test Date : May 02, 2016
- . Operating condition : Highest Output Power Transmitting Mode
- . Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	-1.74	11.70	13.44
	Middle	5 200	-1.59	11.70	13.29
	High	5 240	-1.52	11.70	13.21
5 725 ~ 5 850	Low	5 745	-1.17	24.81	25.98
	Middle	5 785	6.24	24.81	18.57
	High	5 825	-1.93	24.81	26.74

Remark 1 : Margin = Limit – Measured value

Remark 2 : Calculated Power Density = $10\log(10^{(\text{Antenna1 Power Density}/10)} + 10^{(\text{Antenna2 Power Density}/10)})$

-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 180	11.304	-1.74	10.00	0.44	9.56
	Middle	5 200		-1.59	10.00	0.29	9.71
	High	5 240		-1.52	10.00	0.21	9.79
5 725 ~ 5 825	Low	5 745	11.186	-1.17	24.81	25.98	-
	Middle	5 785		6.24	24.81	18.57	-
	High	5 825		-1.93	24.81	26.74	-

Remark 1 : Margin = Limit – Measured value

Remark 2 : Calculated Power Density = $10\log(10^{(\text{Antenna1 Power Density}/10)} + 10^{(\text{Antenna2 Power Density}/10)})$

Tested by: Jun-Hui, Lee / Senior Engineer

9.6 Test data for 802.11n_HT40 RLAN Mode

9.6.1 Test data for Antenna 0

-. Test Date : May 02, 2016
 -. Operating condition : Highest Output Power Transmitting Mode
 -. Test Result : Pass

-. FCC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 190	-9.20	16.47	25.67
	High	5 230	-9.20	16.47	25.67
5 725 ~ 5 850	Low	5 755	-11.07	29.59	40.66
	High	5 795	-11.61	29.59	41.20

Remark: See next page for measurement data.

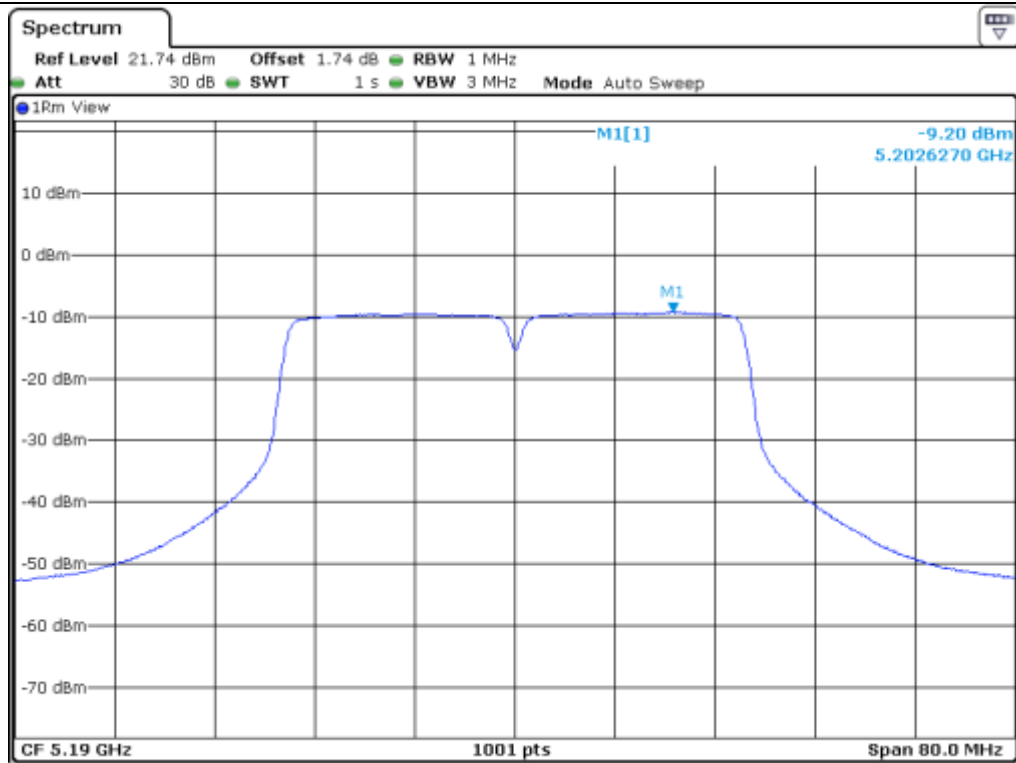
-. IC Test data

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	Antenna Gain	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)	EIRP (dBm)
5 150 ~ 5 250	Low	5 190	6.533	-9.20	10.00	12.67	-2.67
	High	5 230		-9.20	10.00	12.67	-2.67
5 725 ~ 5 825	Low	5 755	6.415	-11.07	29.59	40.66	-
	High	5 795		-11.61	29.59	41.20	-

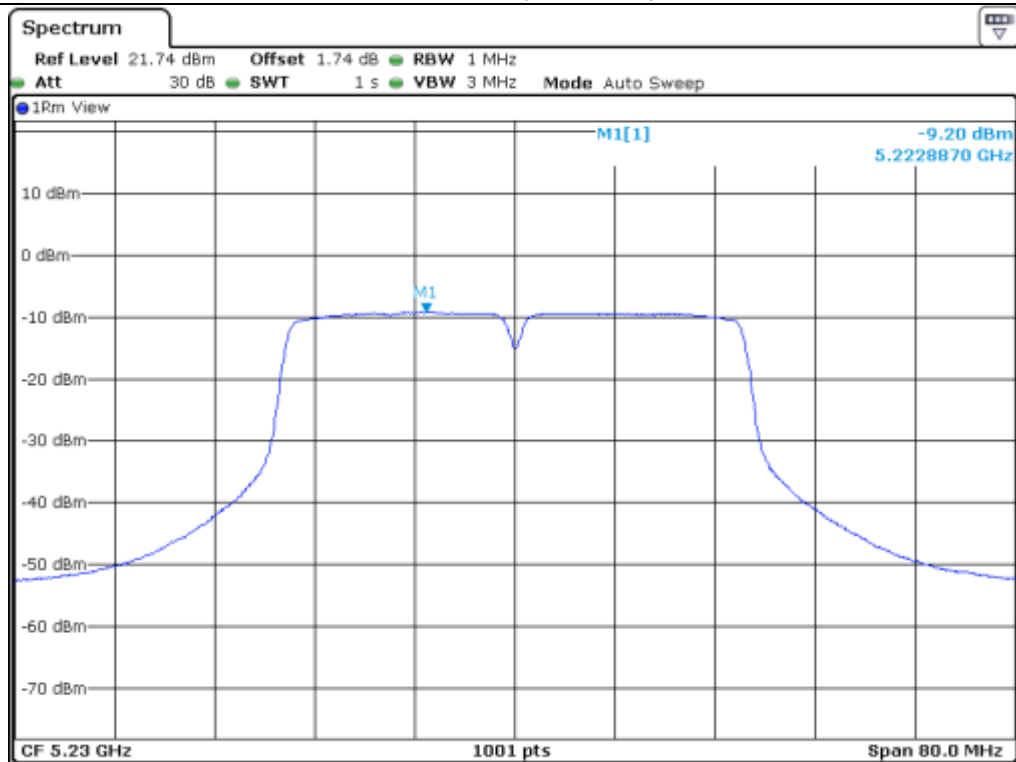
Remark: See next page for measurement data.



Tested by: Jun-Hui, Lee / Senior Engineer



Low Channel (5 190 MHz)



High Channel (5 230 MHz)