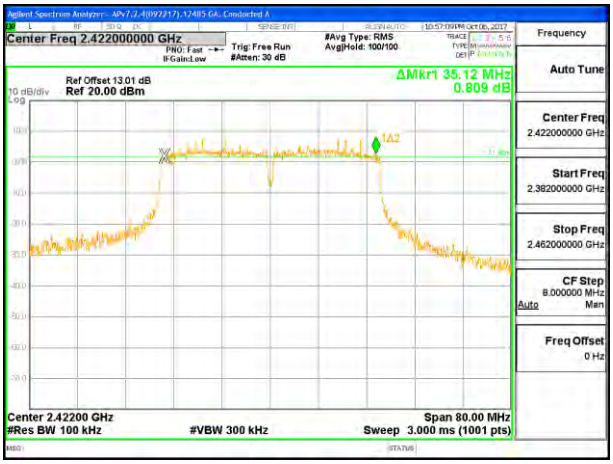
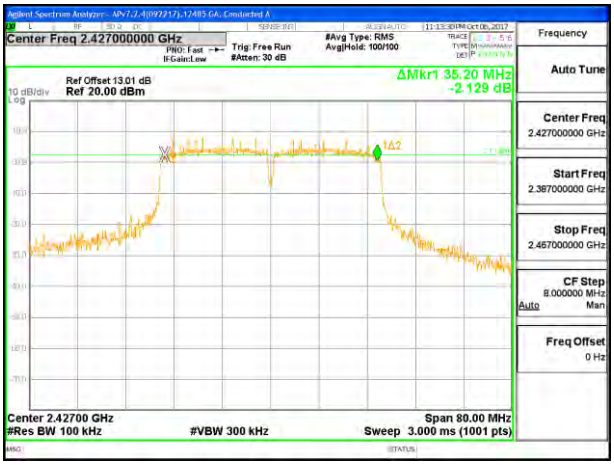
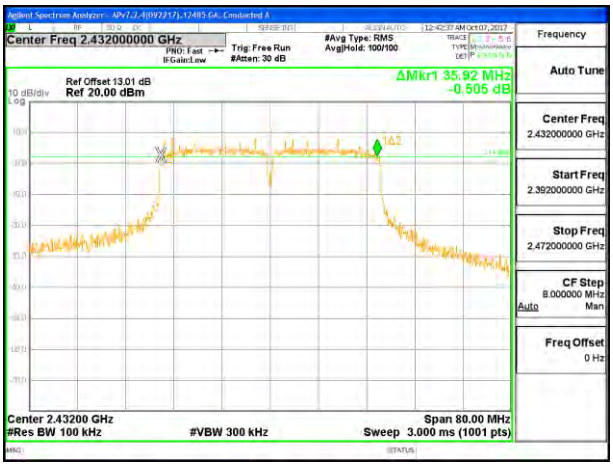


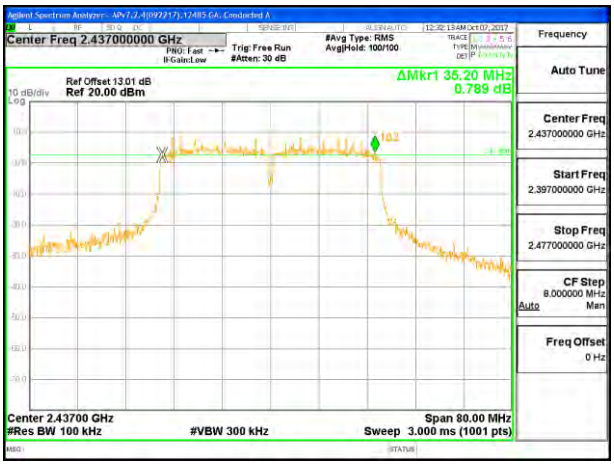
LOW CHANNEL 3



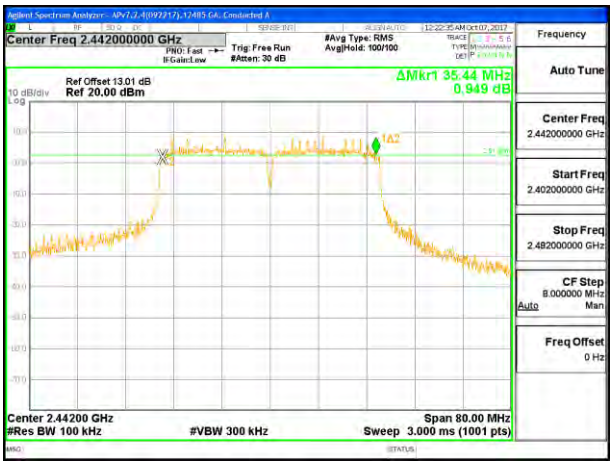
LOW CHANNEL 4



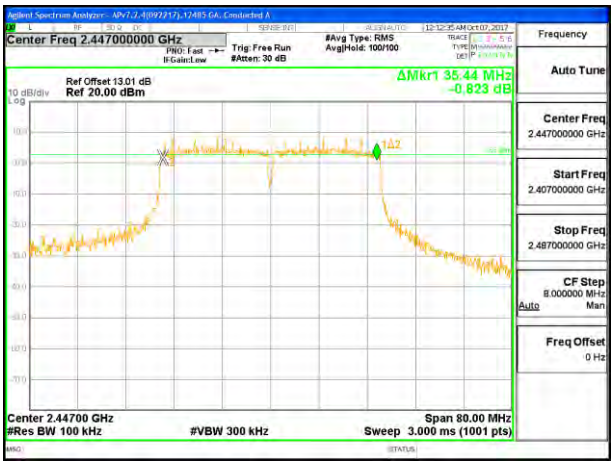
LOW CHANNEL 5



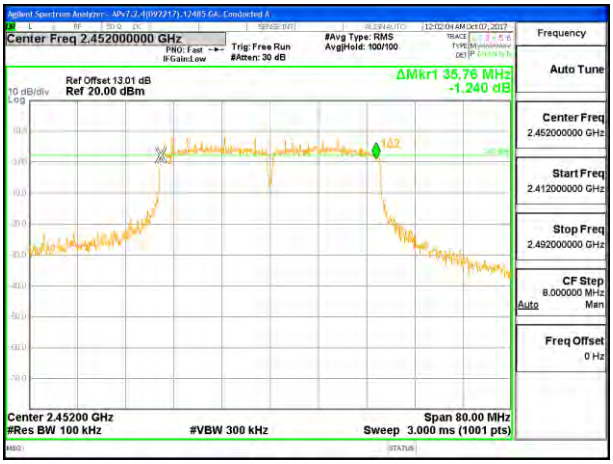
MID CHANNEL 6



HIGH CHANNEL 7



HIGH CHANNEL 8

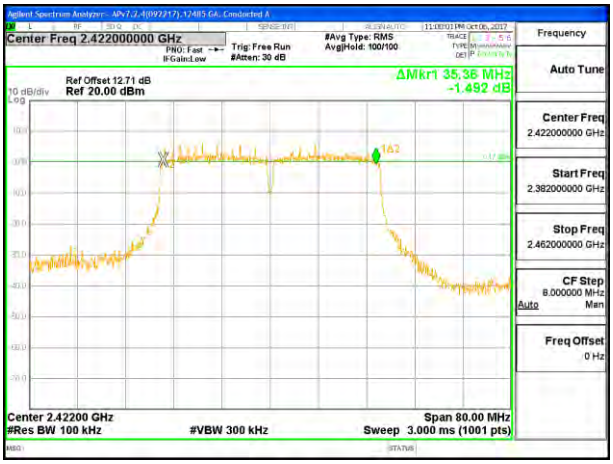


HIGH CHANNEL 9

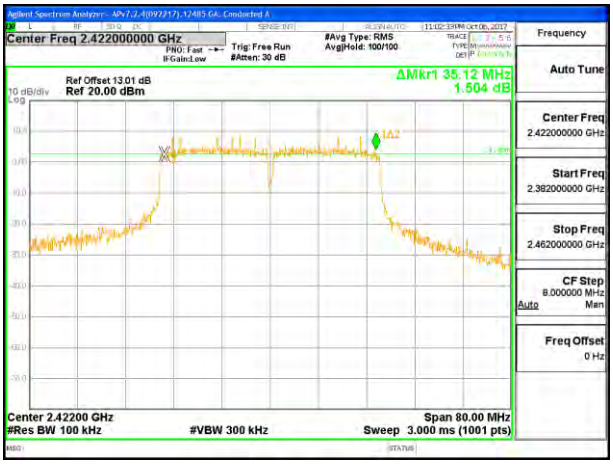
2TX Chain 0 + Chain 1 CDD MODE

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low 3	2422	35.3600	35.1200	0.5
Low 4	2427	35.2800	35.5200	0.5
Low 5	2432	35.8400	35.1200	0.5
Mid 6	2437	35.4400	35.4400	0.5
High 7	2442	35.2000	35.7600	0.5
High 8	2447	35.3600	35.7600	0.5
High 9	2452	35.4400	35.7600	0.5

LOW CHANNEL 3



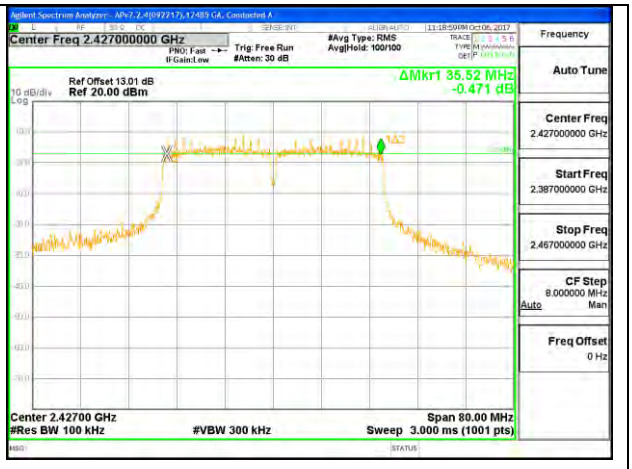
LOW CHANNEL 3 CHAIN 0



LOW CHANNEL 3 CHAIN 1

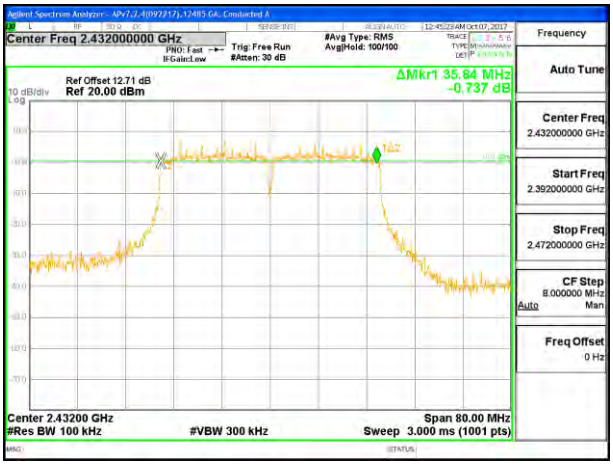
LOW CHANNEL 4

LOW CHANNEL 4 CHAIN 0

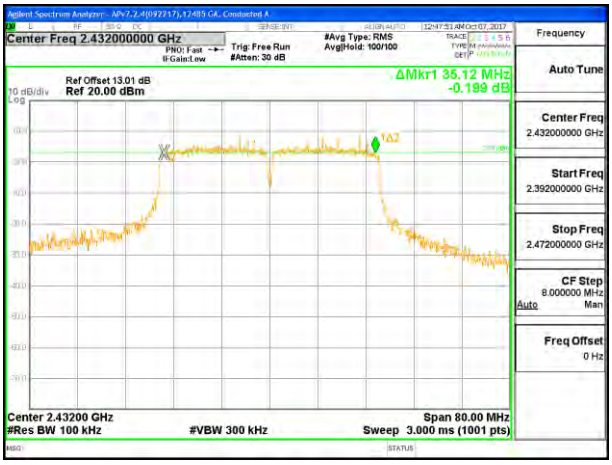


LOW CHANNEL 4 CHAIN 1

LOW CHANNEL 5

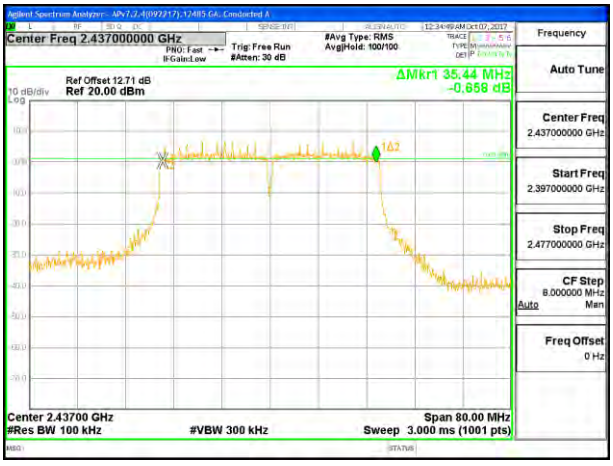


LOW CHANNEL 5 CHAIN 0

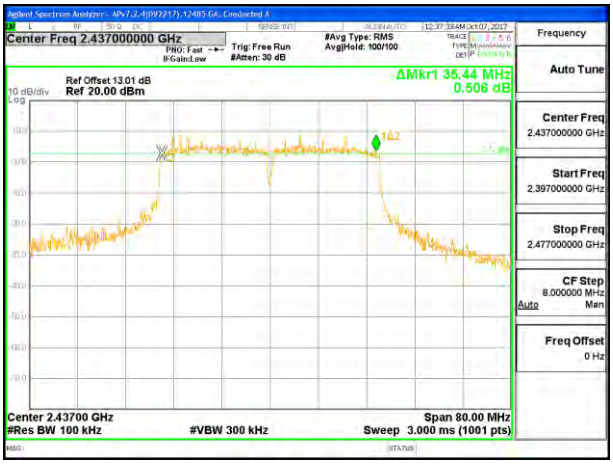


LOW CHANNEL 5 CHAIN 1

MID CHANNEL 6

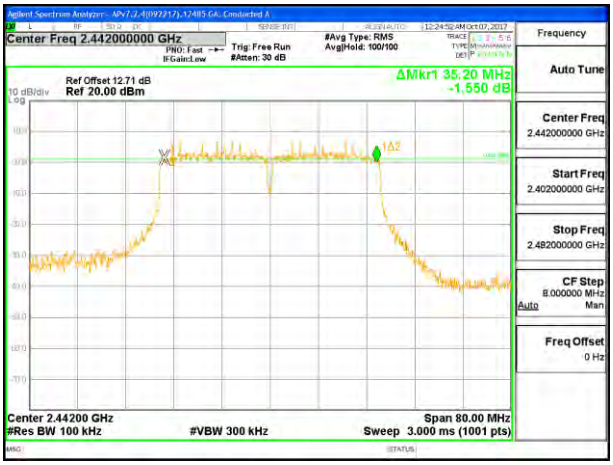


MID CHANNEL 6 CHAIN 0

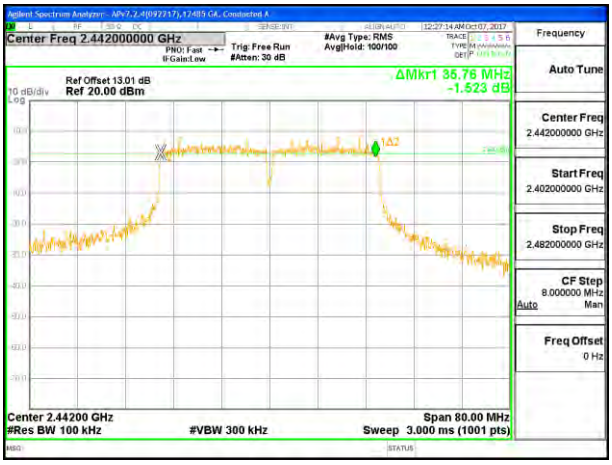


MID CHANNEL 6 CHAIN 1

HIGH CHANNEL 7

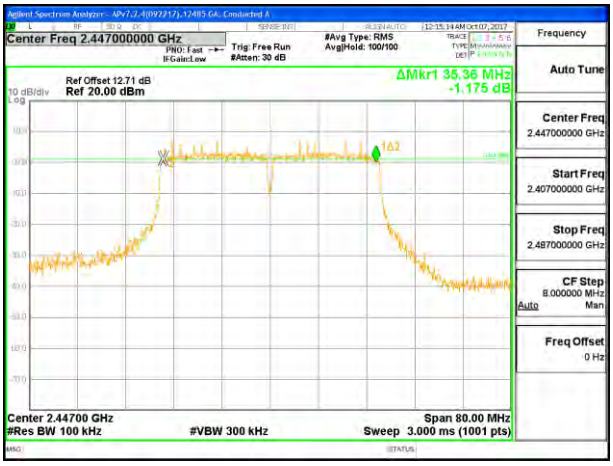


HIGH CHANNEL 7 CHAIN 0

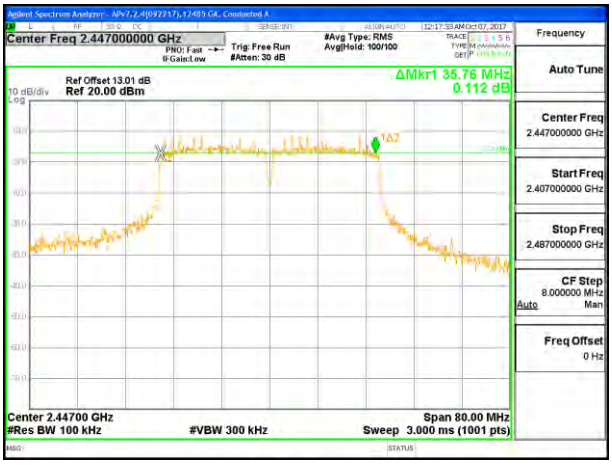


HIGH CHANNEL 7 CHAIN 1

HIGH CHANNEL 8

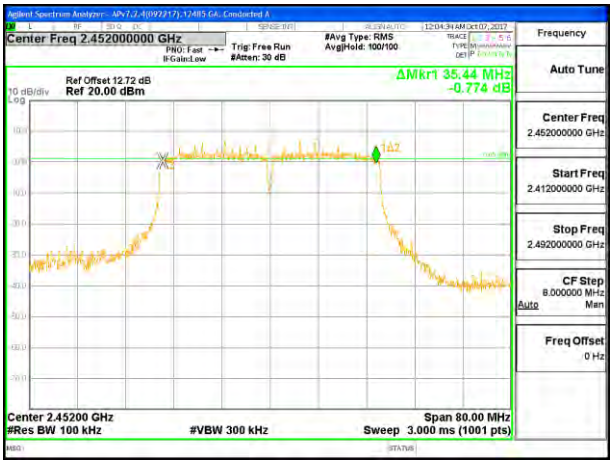


HIGH CHANNEL 8 CHAIN 0

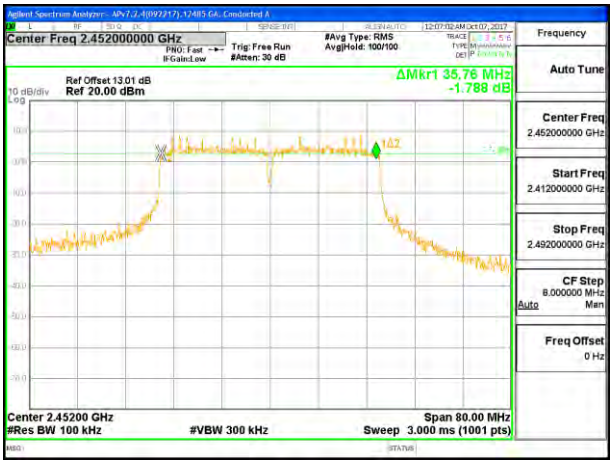


HIGH CHANNEL 8 CHAIN 1

HIGH CHANNEL 9



HIGH CHANNEL 9 CHAIN 0



HIGH CHANNEL 9 CHAIN 1

8.4. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)

RSS-247 (5.4) (d)

For systems using digital modulation in the 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the power meter to allow for a gated peak reading of power.

DIRECTIONAL ANTENNA GAIN

For 1 TX:
There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:
Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

Band (GHz)	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.4	4.70	4.10	4.41	7.27

RESULTS

8.4.1. 802.11b MODE

1TX Chain 0 MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.70	30.00	30	36	30.00
Low 2	2417	4.70	30.00	30	36	30.00
Mid 6	2437	4.70	30.00	30	36	30.00
High 11	2462	4.70	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	21.23	21.23	30.00	-8.77
Low 2	2417	25.06	25.06	30.00	-4.94
Mid 6	2437	24.96	24.96	30.00	-5.04
High 11	2462	23.16	23.16	30.00	-6.84

1TX Chain 1 MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.10	30.00	30	36	30.00
Mid 6	2437	4.10	30.00	30	36	30.00
High 11	2462	4.10	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	23.25	23.25	30.00	-6.75
Mid 6	2437	24.96	24.96	30.00	-5.04
High 11	2462	23.81	23.81	30.00	-6.19

8.4.2. 802.11g MODE

1TX Chain 0 MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.70	30.00	30	36	30.00
Low 2	2417	4.70	30.00	30	36	30.00
Low 3	2422	4.70	30.00	30	36	30.00
Low 4	2427	4.70	30.00	30	36	30.00
Low 5	2432	4.70	30.00	30	36	30.00
Mid 6	2437	4.70	30.00	30	36	30.00
High 7	2442	4.70	30.00	30	36	30.00
High 8	2447	4.70	30.00	30	36	30.00
High 9	2452	4.70	30.00	30	36	30.00
High 10	2457	4.70	30.00	30	36	30.00
High 11	2462	4.70	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	21.89	21.89	30.00	-8.11
Low 2	2417	23.63	23.63	30.00	-6.37
Low 3	2422	23.29	23.29	30.00	-6.71
Low 4	2427	23.93	23.93	30.00	-6.07
Low 5	2432	23.86	23.86	30.00	-6.14
Mid 6	2437	27.66	27.66	30.00	-2.34
High 7	2442	26.04	26.04	30.00	-3.96
High 8	2447	25.75	25.75	30.00	-4.25
High 9	2452	25.28	25.28	30.00	-4.72
High 10	2457	23.12	23.12	30.00	-6.88
High 11	2462	23.87	23.87	30.00	-6.13

1TX Chain 1 MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.10	30.00	30	36	30.00
Low 2	2417	4.10	30.00	30	36	30.00
Low 3	2422	4.10	30.00	30	36	30.00
Mid 6	2437	4.10	30.00	30	36	30.00
High 8	2447	4.10	30.00	30	36	30.00
High 9	2452	4.10	30.00	30	36	30.00
High 10	2457	4.10	30.00	30	36	30.00
High 11	2462	4.10	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	24.18	24.18	30.00	-5.82
Low 2	2417	24.52	24.52	30.00	-5.48
Low 3	2422	27.02	27.02	30.00	-2.98
Mid 6	2437	27.97	27.97	30.00	-2.03
High 8	2447	27.39	27.39	30.00	-2.61
High 9	2452	26.51	26.51	30.00	-3.49
High 10	2457	24.12	24.12	30.00	-5.88
High 11	2462	24.70	24.70	30.00	-5.30

8.4.3. 802.11n HT20 MODE

1TX Chain 0 MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.70	30.00	30	36	30.00
Low 2	2417	4.70	30.00	30	36	30.00
Low 3	2422	4.70	30.00	30	36	30.00
Low 4	2427	4.70	30.00	30	36	30.00
Low 5	2432	4.70	30.00	30	36	30.00
Mid 6	2437	4.70	30.00	30	36	30.00
High 7	2442	4.70	30.00	30	36	30.00
High 8	2447	4.70	30.00	30	36	30.00
High 9	2452	4.70	30.00	30	36	30.00
High 10	2457	4.70	30.00	30	36	30.00
High 11	2462	4.70	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	21.66	21.66	30.00	-8.34
Low 2	2417	23.78	23.78	30.00	-6.22
Low 3	2422	23.40	23.40	30.00	-6.60
Low 4	2427	23.74	23.74	30.00	-6.26
Low 5	2432	27.84	27.84	30.00	-2.16
Mid 6	2437	27.67	27.67	30.00	-2.33
High 7	2442	27.75	27.75	30.00	-2.25
High 8	2447	26.84	26.84	30.00	-3.16
High 9	2452	24.74	24.74	30.00	-5.26
High 10	2457	25.15	25.15	30.00	-4.85
High 11	2462	24.76	24.76	30.00	-5.24

1TX Chain 1 MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.10	30.00	30	36	30.00
Low 2	2417	4.10	30.00	30	36	30.00
Low 3	2422	4.10	30.00	30	36	30.00
Low 4	2427	4.10	30.00	30	36	30.00
Low 5	2432	4.10	30.00	30	36	30.00
Mid 6	2437	4.10	30.00	30	36	30.00
High 9	2452	4.10	30.00	30	36	30.00
High 10	2457	4.10	30.00	30	36	30.00
High 11	2462	4.10	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	23.96	23.96	30.00	-6.04
Low 2	2417	24.25	24.25	30.00	-5.75
Low 3	2422	25.45	25.45	30.00	-4.55
Low 4	2427	25.47	25.47	30.00	-4.53
Low 5	2432	27.55	27.55	30.00	-2.45
Mid 6	2437	27.39	27.39	30.00	-2.61
High 9	2452	27.41	27.41	30.00	-2.59
High 10	2457	24.27	24.27	30.00	-5.73
High 11	2462	23.81	23.81	30.00	-6.19

2TX Chain 0 + Chain 1 CDD MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.41	30.00	30	36	30.00
Low 2	2417	4.41	30.00	30	36	30.00
Low 3	2422	4.41	30.00	30	36	30.00
Low 4	2427	4.41	30.00	30	36	30.00
Low 5	2432	4.41	30.00	30	36	30.00
Mid 6	2437	4.41	30.00	30	36	30.00
High 7	2442	4.41	30.00	30	36	30.00
High 8	2447	4.41	30.00	30	36	30.00
High 9	2452	4.41	30.00	30	36	30.00
High 10	2457	4.41	30.00	30	36	30.00
High 11	2462	4.41	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	18.33	20.41	22.50	30.00	-7.50
Low 2	2417	20.32	21.35	23.88	30.00	-6.12
Low 3	2422	20.98	22.33	24.72	30.00	-5.28
Low 4	2427	21.76	24.19	26.15	30.00	-3.85
Low 5	2432	22.34	23.49	25.96	30.00	-4.04
Mid 6	2437	26.66	27.04	29.86	30.00	-0.14
High 7	2442	22.20	23.67	26.01	30.00	-3.99
High 8	2447	23.28	24.03	26.68	30.00	-3.32
High 9	2452	22.15	23.58	25.93	30.00	-4.07
High 10	2457	21.74	23.15	25.51	30.00	-4.49
High 11	2462	21.34	23.02	25.27	30.00	-4.73

8.4.4. 802.11n HT40 MODE

1TX Chain 0 MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.70	30.00	30	36	30.00
Low 4	2427	4.70	30.00	30	36	30.00
Low 5	2432	4.70	30.00	30	36	30.00
Mid 6	2437	4.70	30.00	30	36	30.00
High 7	2442	4.70	30.00	30	36	30.00
High 8	2447	4.70	30.00	30	36	30.00
High 9	2452	4.70	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	18.74	18.74	30.00	-11.26
Low 4	2427	19.09	19.09	30.00	-10.91
Low 5	2432	20.23	20.23	30.00	-9.77
Mid 6	2437	20.70	20.70	30.00	-9.30
High 7	2442	21.31	21.31	30.00	-8.69
High 8	2447	20.13	20.13	30.00	-9.87
High 9	2452	20.03	20.03	30.00	-9.97

1TX Chain 1 MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.10	30.00	30	36	30.00
Low 4	2427	4.10	30.00	30	36	30.00
Low 5	2432	4.10	30.00	30	36	30.00
Mid 6	2437	4.10	30.00	30	36	30.00
High 7	2442	4.10	30.00	30	36	30.00
High 8	2447	4.10	30.00	30	36	30.00
High 9	2452	4.10	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	20.40	20.40	30.00	-9.60
Low 4	2427	20.33	20.33	30.00	-9.67
Low 5	2432	21.23	21.23	30.00	-8.77
Mid 6	2437	22.22	22.22	30.00	-7.78
High 7	2442	21.77	21.77	30.00	-8.23
High 8	2447	21.29	21.29	30.00	-8.71
High 9	2452	20.33	20.33	30.00	-9.67

2TX Chain 0 + Chain 1 CDD MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.41	30.00	30	36	30.00
Low 4	2427	4.41	30.00	30	36	30.00
Low 5	2432	4.41	30.00	30	36	30.00
Mid 6	2437	4.41	30.00	30	36	30.00
High 7	2442	4.41	30.00	30	36	30.00
High 8	2447	4.41	30.00	30	36	30.00
High 9	2452	4.41	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	15.81	17.21	19.58	30.00	-10.42
Low 4	2427	15.95	17.36	19.72	30.00	-10.28
Low 5	2432	16.61	18.35	20.58	30.00	-9.42
Mid 6	2437	18.47	19.46	22.00	30.00	-8.00
High 7	2442	18.41	20.17	22.39	30.00	-7.61
High 8	2447	17.92	19.67	21.89	30.00	-8.11
High 9	2452	18.97	20.14	22.60	30.00	-7.40

8.5. AVERAGE POWER

LIMITS

None; for reporting purposes only

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the power meter to allow for a gated average reading of power.

RESULTS

8.5.1. 802.11b MODE

1TX Chain 0 MODE

ID:	37699	Date:	10/09/17

Channel	Frequency (MHz)	Chain 0 Power (dBm)
Low 1	2412	18.72
Low 2	2417	22.58
Mid 6	2437	22.43
High 11	2462	20.66

1TX Chain 1 MODE

ID:	37699	Date:	10/09/17

Channel	Frequency (MHz)	Chain 1 Power (dBm)
Low 1	2412	20.69
Mid 6	2437	22.48
High 11	2462	21.17

8.5.2. 802.11g MODE

1TX Chain 0 MODE

ID:	37699	Date:	10/09/17

Channel	Frequency (MHz)	Chain 0 Power (dBm)
Low 1	2412	15.60
Low 2	2417	17.58
Low 3	2422	17.09
Low 4	2427	17.59
Low 5	2432	17.96
Mid 6	2437	22.50
High 7	2442	20.25
High 8	2447	19.43
High 9	2452	19.52
High 10	2457	17.26
High 11	2462	17.47

1TX Chain 1 MODE

ID:	37699	Date:	10/09/17

Channel	Frequency (MHz)	Chain 1 Power (dBm)
Low 1	2412	18.47
Low 2	2417	18.39
Low 3	2422	21.21
Mid 6	2437	22.83
High 8	2447	21.79
High 9	2452	20.57
High 10	2457	18.08
High 11	2462	18.40

8.5.3. 802.11n HT20 MODE

1TX Chain 0 MODE

ID:	37699	Date:	10/09/17

Channel	Frequency (MHz)	Chain 0 Power (dBm)
Low 1	2412	15.33
Low 2	2417	17.42
Low 3	2422	17.38
Low 4	2427	17.30
Low 5	2432	22.55
Mid 6	2437	22.42
High 7	2442	22.39
High 8	2447	20.67
High 9	2452	18.92
High 10	2457	18.79
High 11	2462	18.71

1TX Chain 1 MODE

ID:	37699	Date:	10/09/17

Channel	Frequency (MHz)	Chain 1 Power (dBm)
Low 1	2412	17.63
Low 2	2417	18.09
Low 3	2422	19.46
Low 4	2427	19.46
Low 5	2432	22.53
Mid 6	2437	22.99
High 9	2452	21.84
High 10	2457	18.51
High 11	2462	17.85

2TX Chain 0 + Chain 1 CDD MODE

ID:	37699	Date:	10/12/17

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low 1	2412	12.37	14.01	16.28
Low 2	2417	13.62	15.20	17.49
Low 3	2422	14.40	16.02	18.30
Low 4	2427	15.52	17.68	19.74
Low 5	2432	15.91	17.59	19.84
Mid 6	2437	22.21	22.28	25.26
High 7	2442	16.36	17.87	20.19
High 8	2447	16.51	17.89	20.26
High 9	2452	15.97	17.56	19.85
High 10	2457	15.27	17.12	19.30
High 11	2462	14.82	16.66	18.85

8.5.4. 802.11n HT40 MODE

1TX Chain 0 MODE

ID:	37699	Date:	10/09/17

Channel	Frequency (MHz)	Chain 0 Power (dBm)
Low 3	2422	12.09
Low 4	2427	12.56
Low 5	2432	13.50
Mid 6	2437	14.01
High 7	2442	14.61
High 8	2447	13.60
High 9	2452	13.43

1TX Chain 1 MODE

ID:	37699	Date:	10/09/17

Channel	Frequency (MHz)	Chain 1 Power (dBm)
Low 3	2422	13.78
Low 4	2427	13.72
Low 5	2432	14.44
Mid 6	2437	15.84
High 7	2442	15.32
High 8	2447	14.45
High 9	2452	13.18

2TX Chain 0 + Chain 1 CDD MODE

ID:	37699	Date:	10/09/17

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low 3	2422	9.10	10.77	13.03
Low 4	2427	9.04	10.87	13.06
Low 5	2432	10.19	11.80	14.08
Mid 6	2437	11.74	13.20	15.54
High 7	2442	11.81	13.67	15.85
High 8	2447	11.82	13.19	15.57
High 9	2452	12.27	13.69	16.05

8.6. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

RSS-247 (5.2) (b)

For digitally modulated systems, the power spectral density conducted form the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

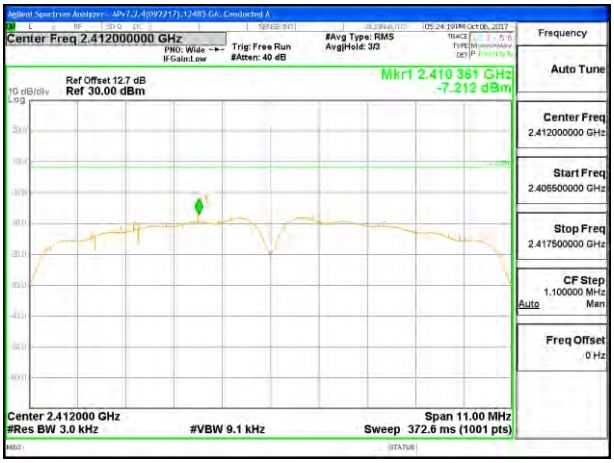
RESULTS

8.6.1. 802.11b MODE

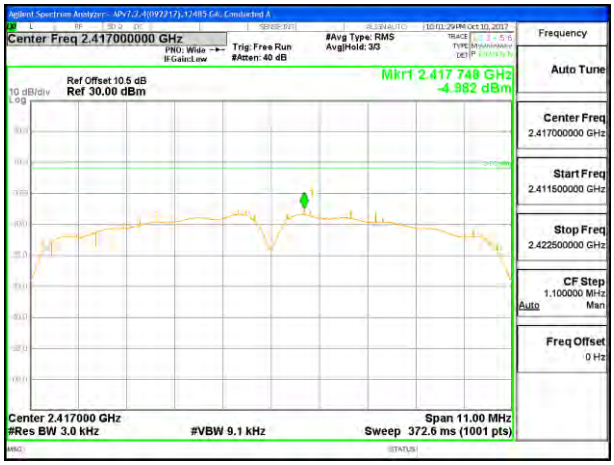
1TX Chain 0 MODE

PSD Results

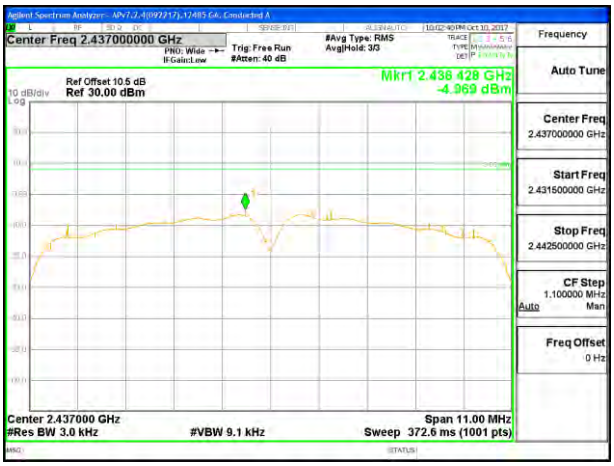
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 1	2412	-7.21	-7.21	8.0	-15.2
Low 2	2417	-4.98	-4.98	8.0	-13.0
Mid 6	2437	-4.97	-4.97	8.0	-13.0
High 11	2462	-7.98	-7.98	8.0	-16.0



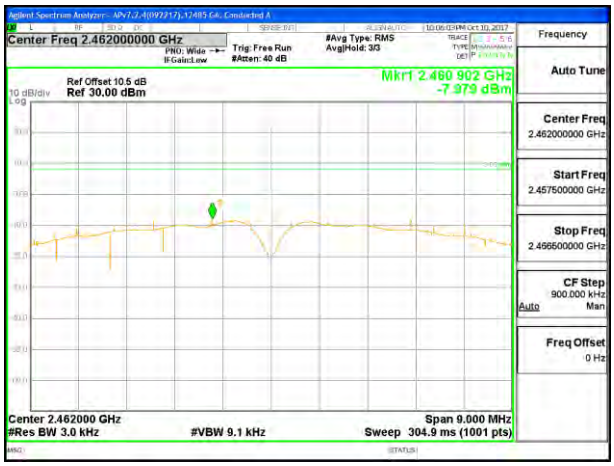
LOW CHANNEL 1



LOW CHANNEL 2



MID CHANNEL 6

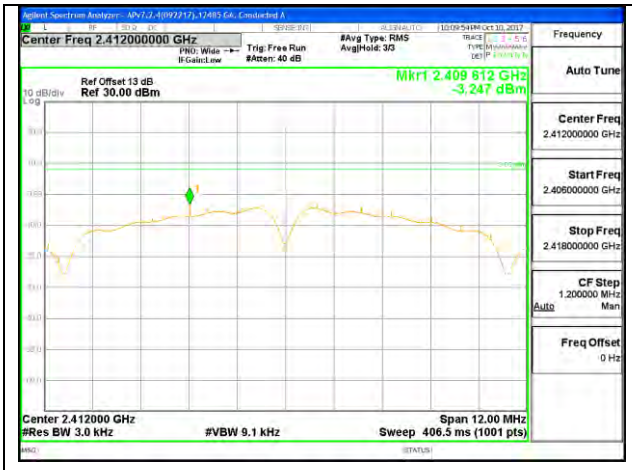


HIGH CHANNEL 11

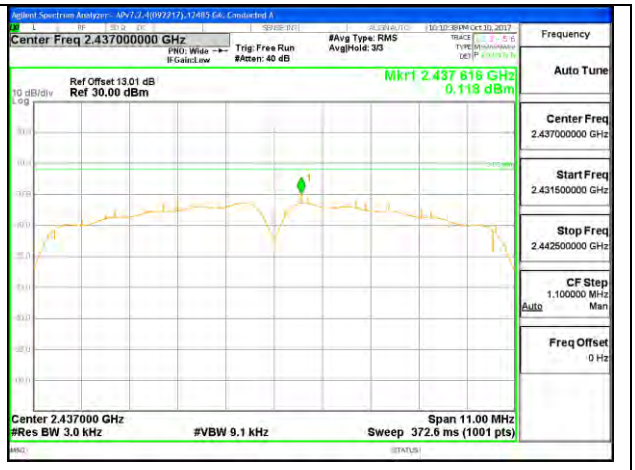
1TX Chain 1 MODE

PSD Results

Channel	Frequency (MHz)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 1	2412	-3.25	-3.25	8.0	-11.2
Mid 6	2437	0.12	0.12	8.0	-7.9
High 11	2462	-1.77	-1.77	8.0	-9.8



LOW CHANNEL 1



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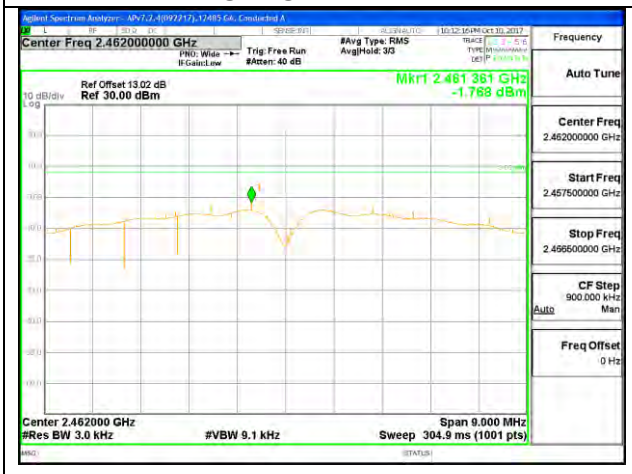


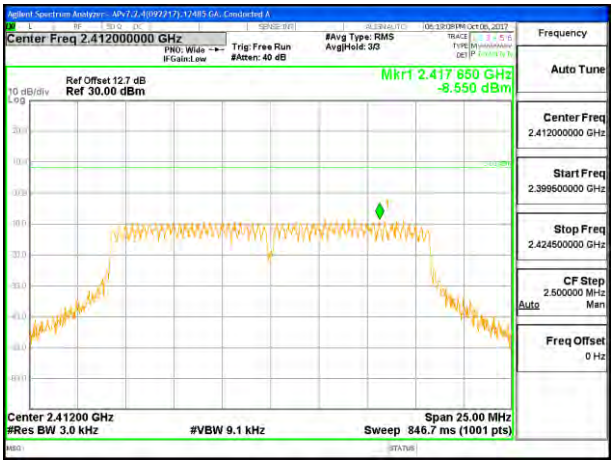
HIGH CHANNEL 11

8.6.2. 802.11g MODE

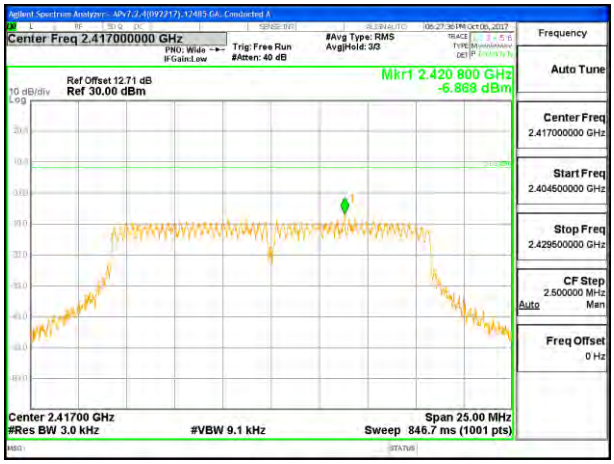
1TX Chain 0 MODE

PSD Results

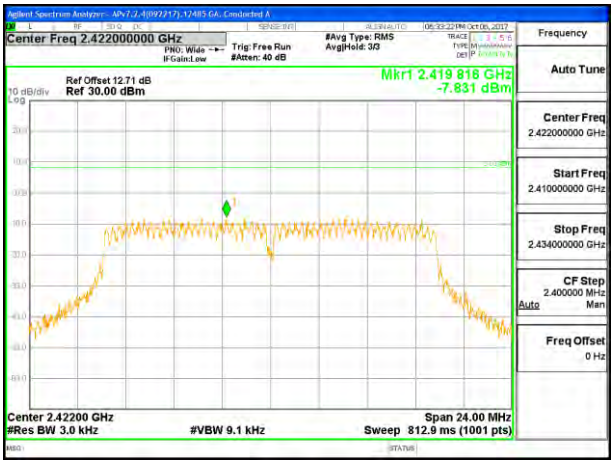
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 1	2412	-8.55	-8.55	8.0	-16.6
Low 2	2417	-6.87	-6.87	8.0	-14.9
Low 3	2422	-7.83	-7.83	8.0	-15.8
Low 4	2427	-6.88	-6.88	8.0	-14.9
Low 5	2432	-8.36	-8.36	8.0	-16.4
Mid 6	2437	-7.39	-7.39	8.0	-15.4
High 7	2442	-8.07	-8.07	8.0	-16.1
High 8	2447	-7.40	-7.40	8.0	-15.4
High 9	2452	-8.35	-8.35	8.0	-16.4
High 10	2457	-7.52	-7.52	8.0	-15.5
High 11	2462	-7.88	-7.88	8.0	-15.9



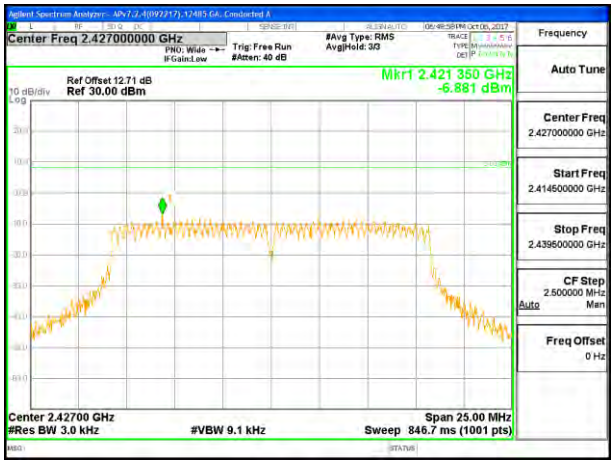
LOW CHANNEL 1



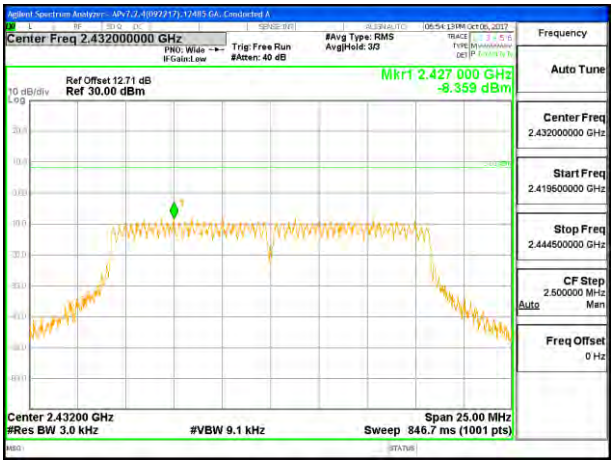
LOW CHANNEL 2



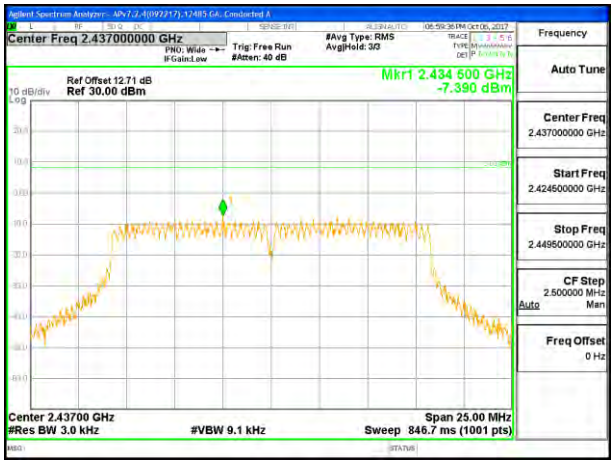
LOW CHANNEL 3



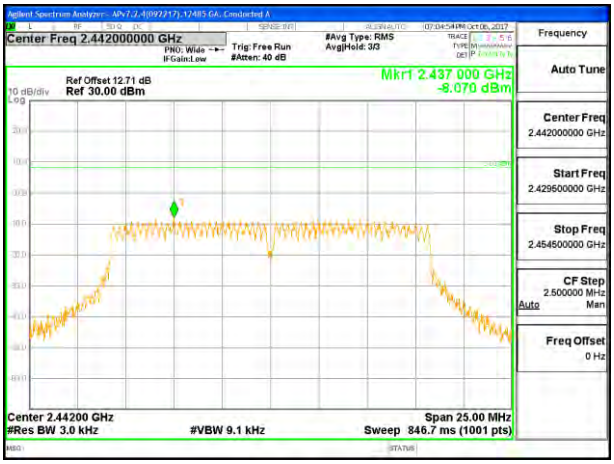
LOW CHANNEL 4



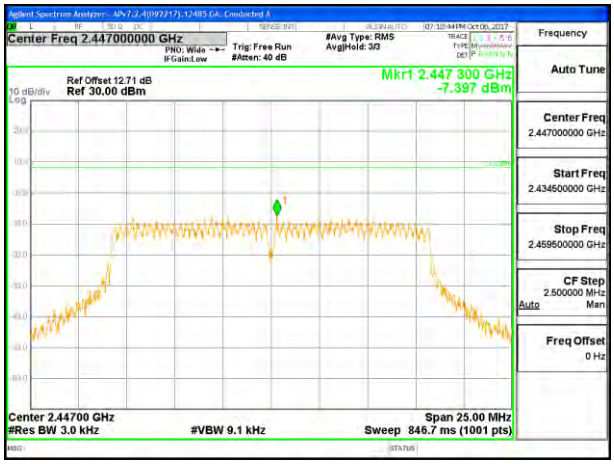
LOW CHANNEL 5



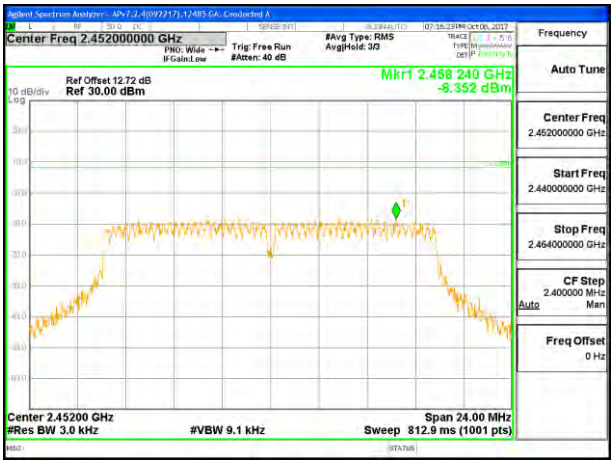
MID CHANNEL 6



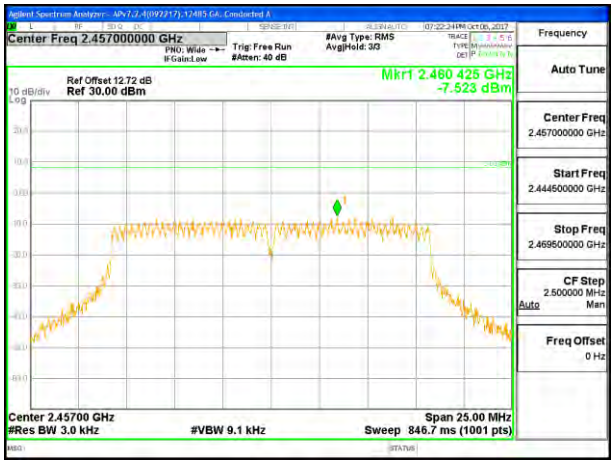
HIGH CHANNEL 7



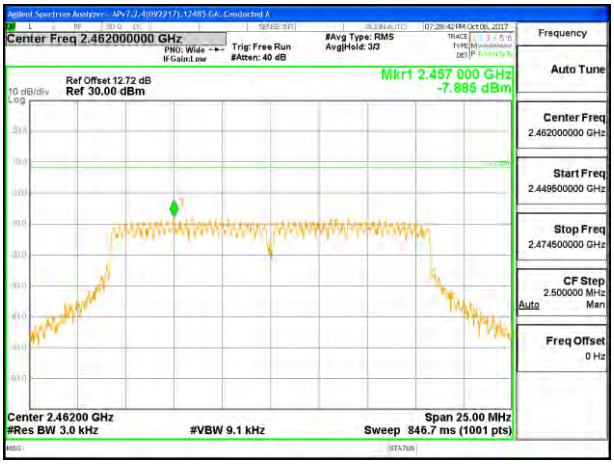
HIGH CHANNEL 8



HIGH CHANNEL 9



HIGH CHANNEL 10

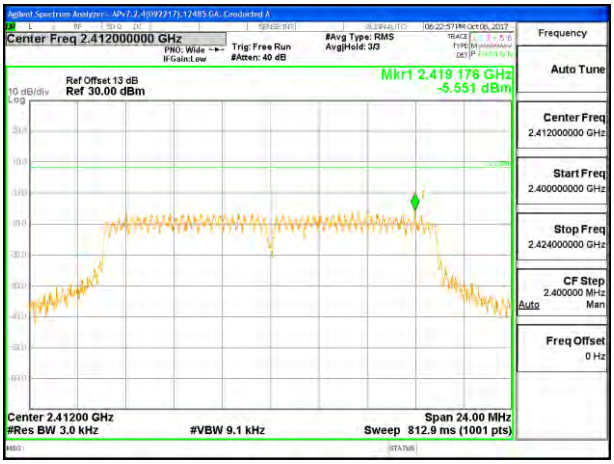


HIGH CHANNEL 11

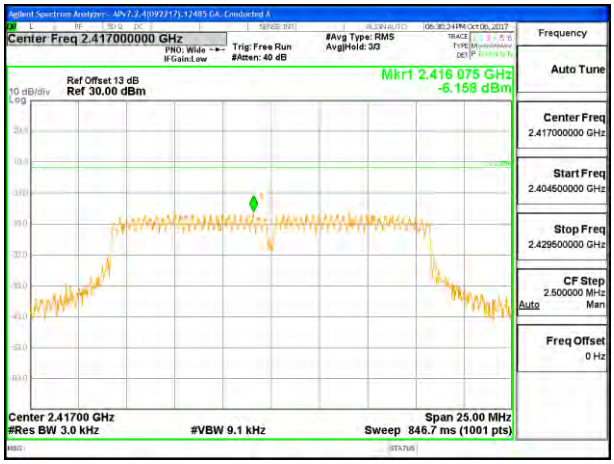
1TX Chain 1 MODE

PSD Results

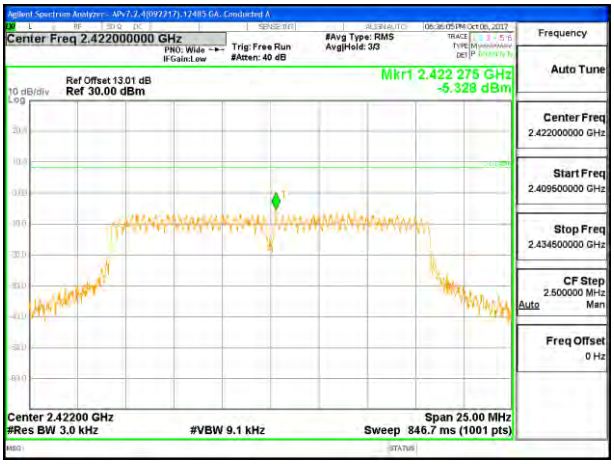
Channel	Frequency (MHz)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 1	2412	-5.55	-5.55	8.0	-13.6
Low 2	2417	-6.16	-6.16	8.0	-14.2
Low 3	2422	-5.33	-5.33	8.0	-13.3
Mid 6	2437	-6.08	-6.08	8.0	-14.1
High 8	2447	-6.47	-6.47	8.0	-14.5
High 9	2452	-6.40	-6.40	8.0	-14.4
High 10	2457	-5.69	-5.69	8.0	-13.7
High 11	2462	-5.38	-5.38	8.0	-13.4



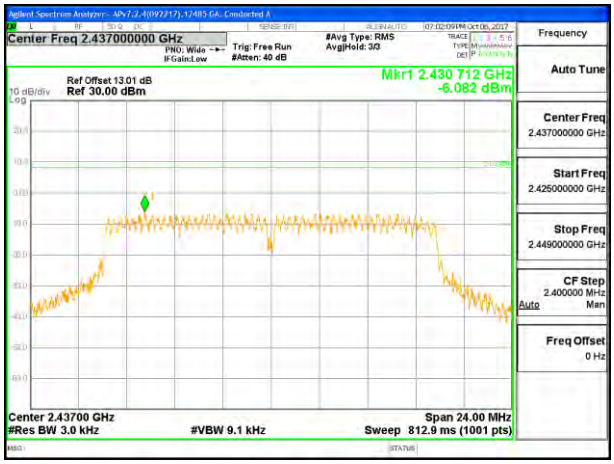
LOW CHANNEL 1



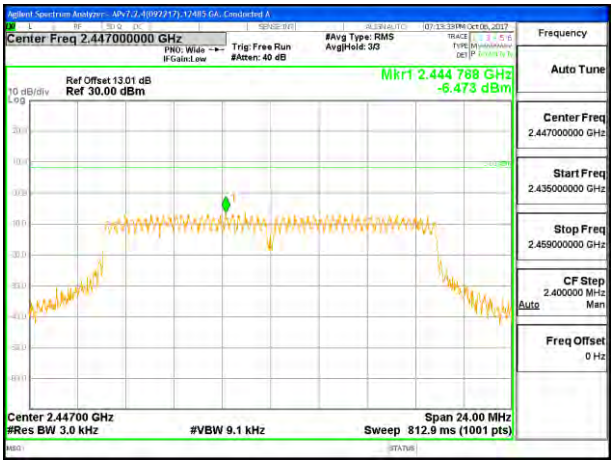
LOW CHANNEL 2



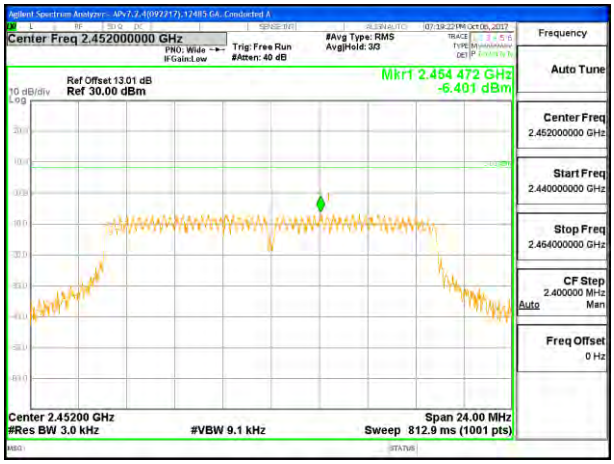
LOW CHANNEL 3



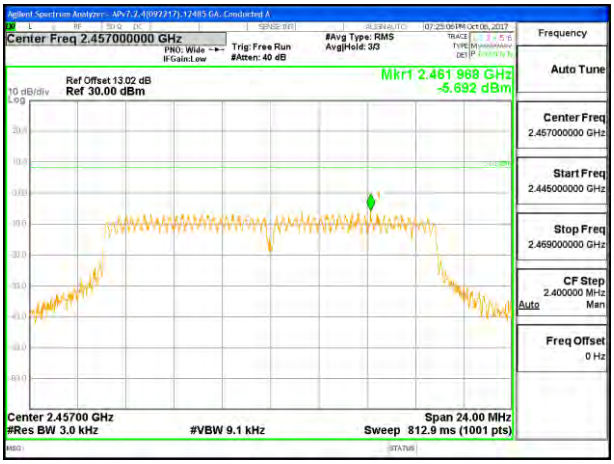
MID CHANNEL 6



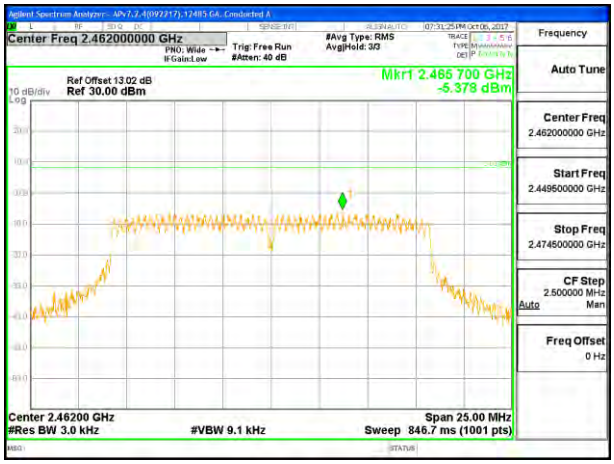
HIGH CHANNEL 8



HIGH CHANNEL 9



HIGH CHANNEL 10



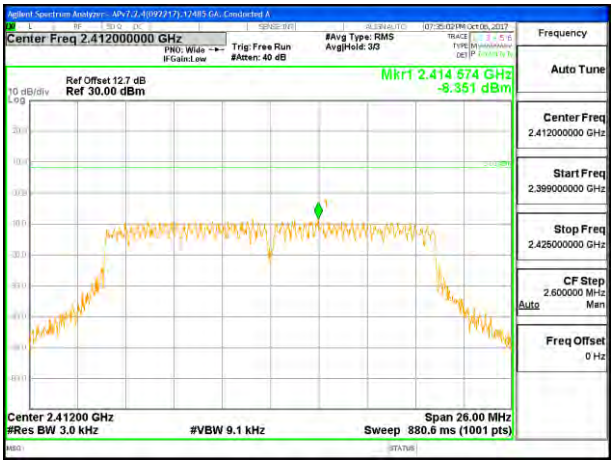
HIGH CHANNEL 11

8.6.3. 802.11n HT20 MODE

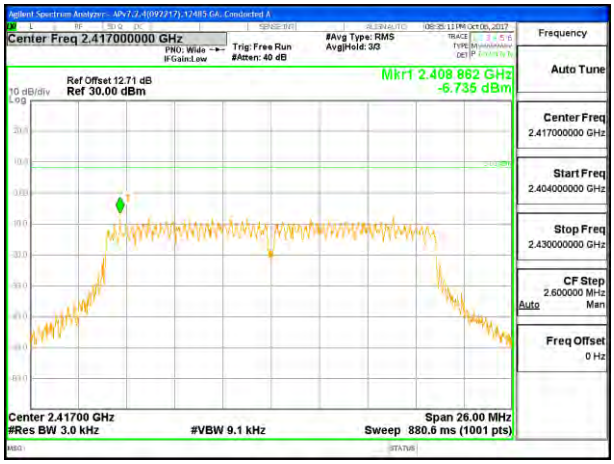
1TX Chain 0 MODE

PSD Results

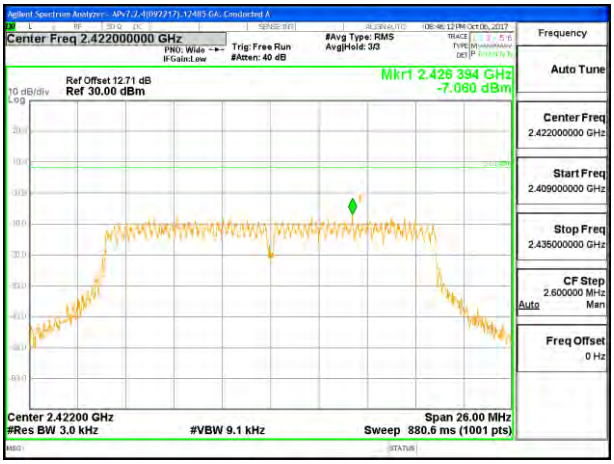
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 1	2412	-8.35	-8.35	8.0	-16.4
Low 2	2417	-6.74	-6.74	8.0	-14.7
Low 3	2422	-7.06	-7.06	8.0	-15.1
Low 4	2427	-7.33	-7.33	8.0	-15.3
Low 5	2432	-8.26	-8.26	8.0	-16.3
Mid 6	2437	-7.58	-7.58	8.0	-15.6
High 8	2447	-5.52	-5.52	8.0	-13.5
High 9	2452	-6.67	-6.67	8.0	-14.7
High 10	2457	-7.38	-7.38	8.0	-15.4
High 11	2462	-6.78	-6.78	8.0	-14.8



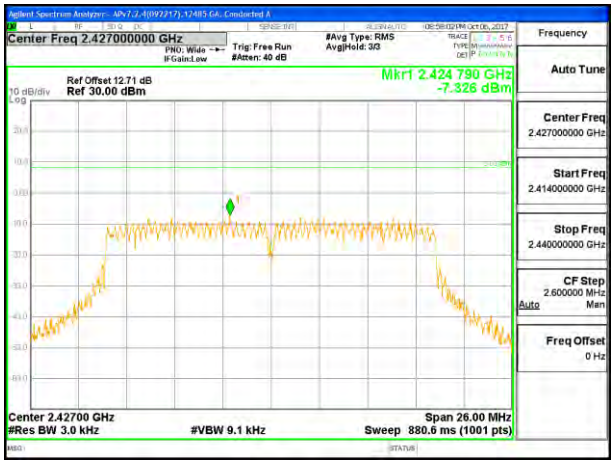
LOW CHANNEL 1



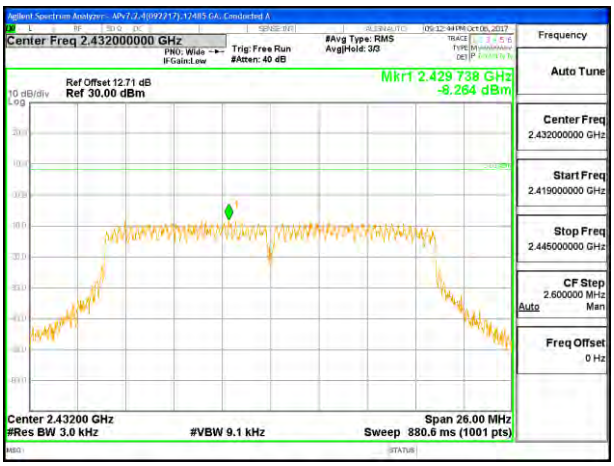
LOW CHANNEL 2



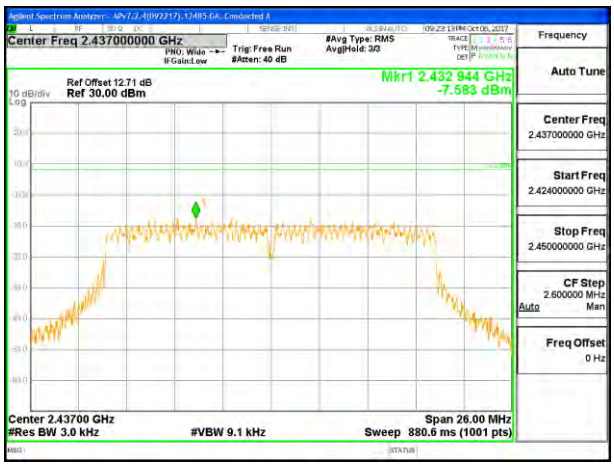
LOW CHANNEL 3



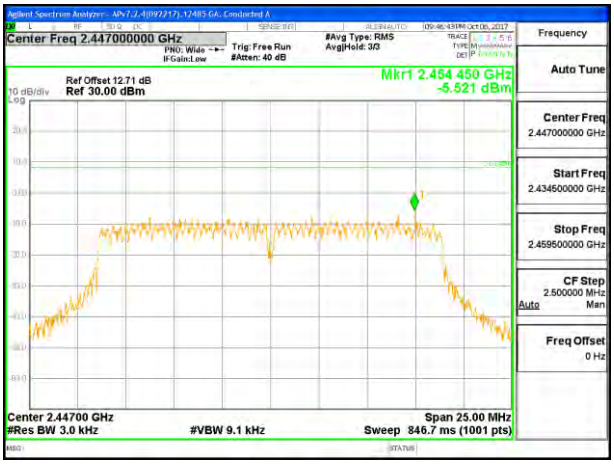
LOW CHANNEL 4



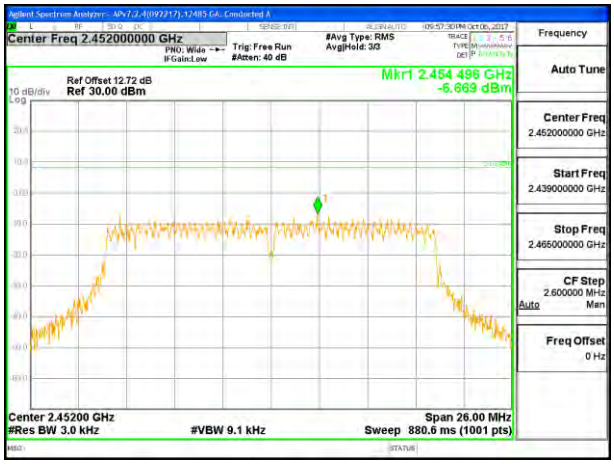
LOW CHANNEL 5



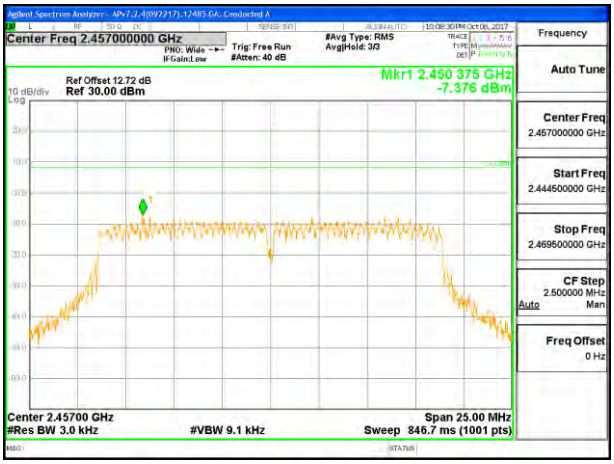
MID CHANNEL 6



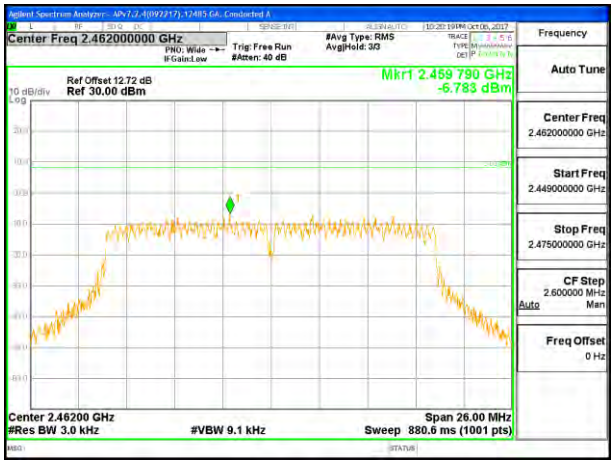
HIGH CHANNEL 8



HIGH CHANNEL 9



HIGH CHANNEL 10



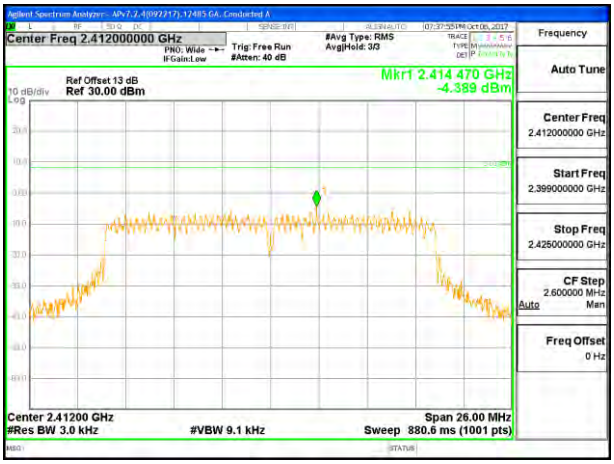
HIGH CHANNEL 11

1TX Chain 1 MODE

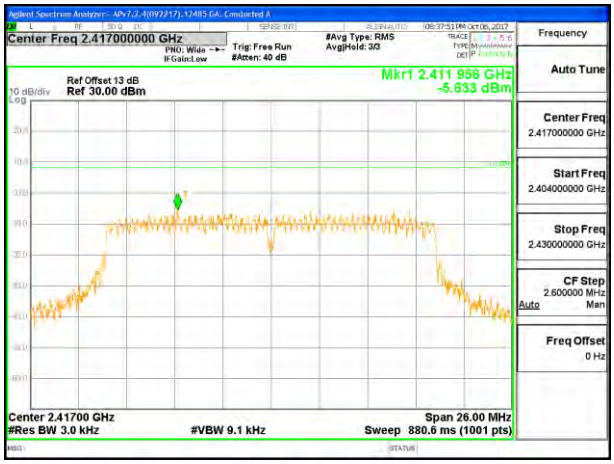
PSD Results

Channel	Frequency (MHz)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 1	2412	-4.39	-4.39	8.0	-12.4
Low 2	2417	-5.63	-5.63	8.0	-13.6
Low 3	2422	-5.64	-5.64	8.0	-13.6
Low 4	2427	-5.58	-5.58	8.0	-13.6
Low 5	2432	-4.43	-4.43	8.0	-12.4
Mid 6	2437	-4.87	-4.87	8.0	-12.9
High 9	2452	-5.89	-5.89	8.0	-13.9
High 10	2457	-4.37	-4.37	8.0	-12.4
High 11	2462	-5.76	-5.76	8.0	-13.8

UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888



LOW CHANNEL 1



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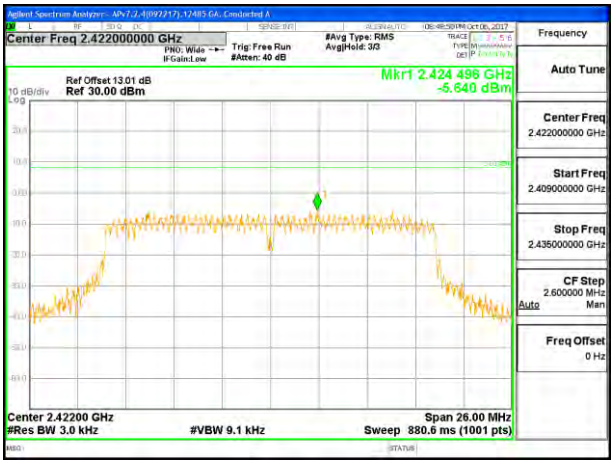

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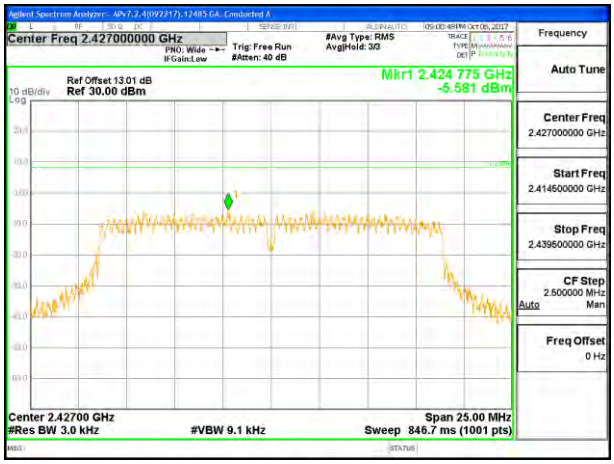

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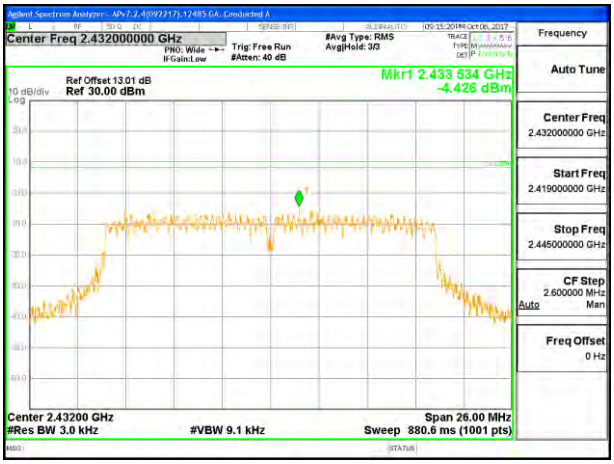

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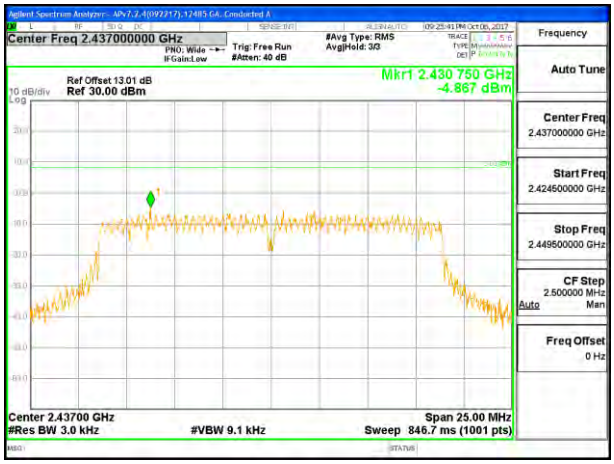
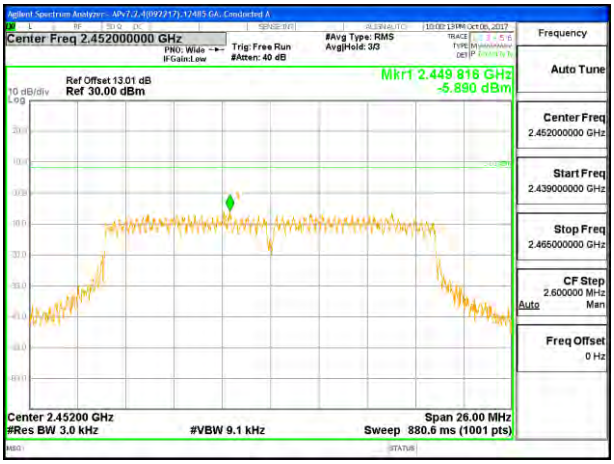
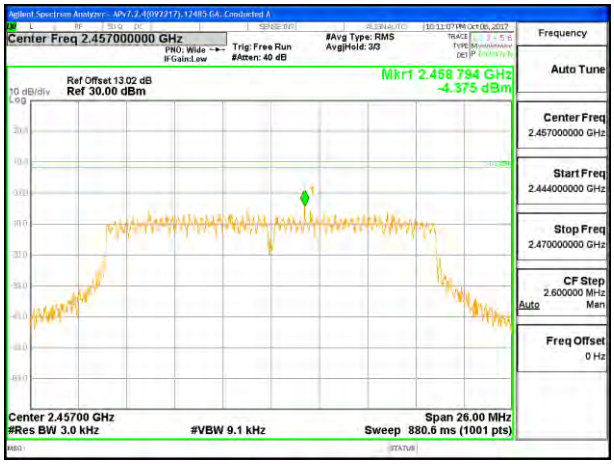


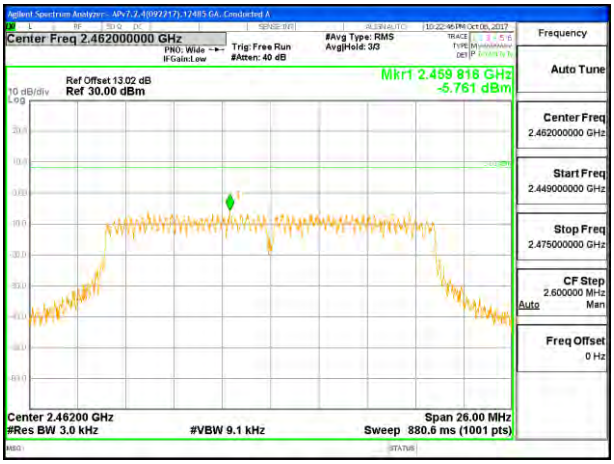
MID CHANNEL 6



HIGH CHANNEL 9



HIGH CHANNEL 10



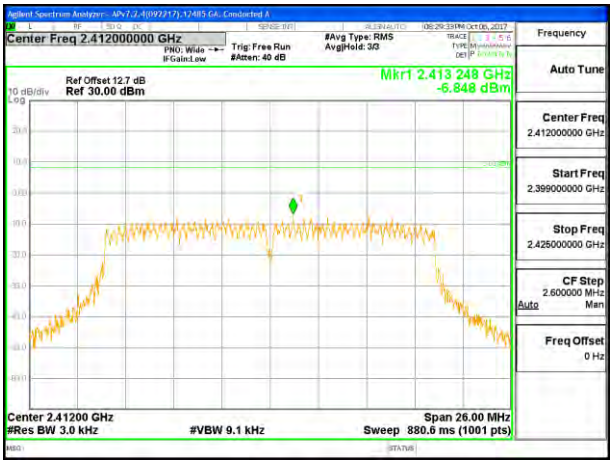
HIGH CHANNEL 11

2TX Chain 0 + Chain 1 CDD MODE

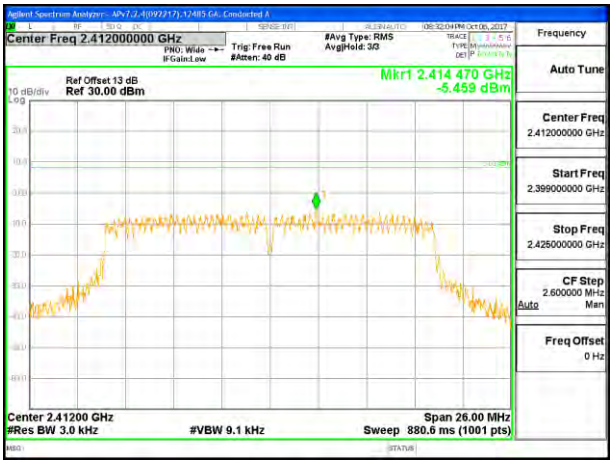
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 1	2412	-6.85	-5.46	-3.09	8.0	-11.1
Low 2	2417	-7.25	-5.59	-3.33	8.0	-11.3
Low 3	2422	-7.26	-5.45	-3.25	8.0	-11.3
Low 4	2427	-7.62	-5.63	-3.50	8.0	-11.5
Low 5	2432	-7.87	-5.33	-3.41	8.0	-11.4
Mid 6	2437	-7.67	-5.78	-3.61	8.0	-11.6
High 7	2442	-7.40	-6.22	-3.76	8.0	-11.8
High 8	2447	-6.42	-5.39	-2.86	8.0	-10.9
High 9	2452	-7.63	-5.84	-3.63	8.0	-11.6
High 10	2457	-7.21	-5.43	-3.22	8.0	-11.2
High 11	2462	-6.07	-5.77	-2.91	8.0	-10.9

LOW CHANNEL 1

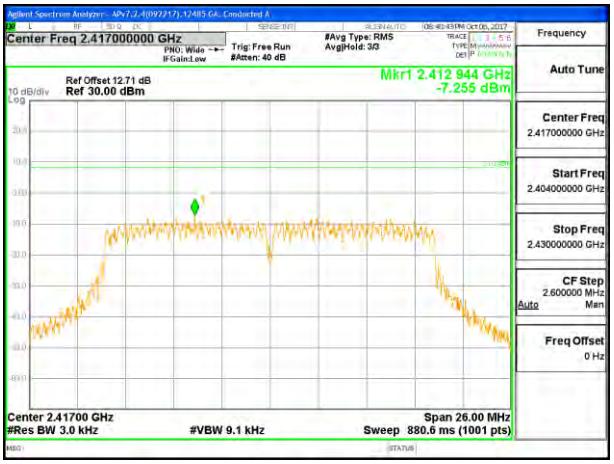


LOW CHANNEL 1 CHAIN 0

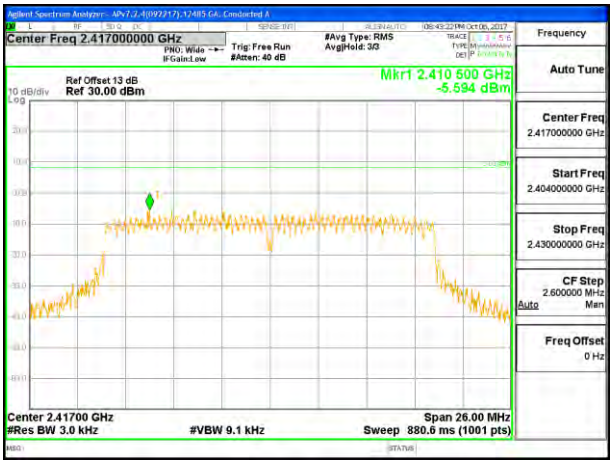


LOW CHANNEL 1 CHAIN 1

LOW CHANNEL 2

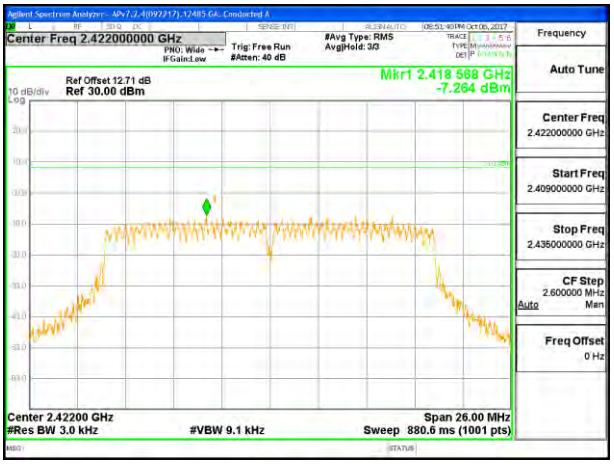


LOW CHANNEL 2 CHAIN 0

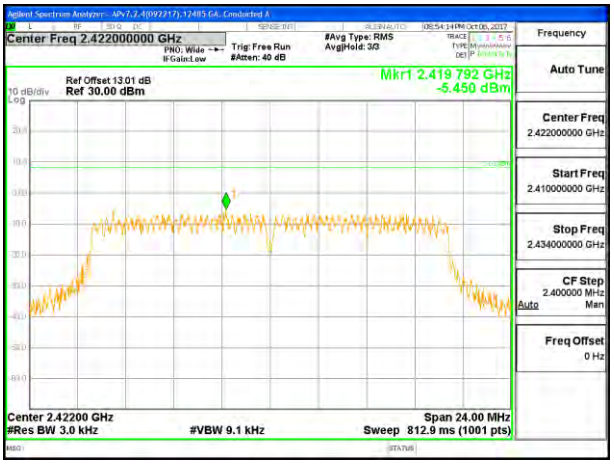


LOW CHANNEL 2 CHAIN 1

LOW CHANNEL 3

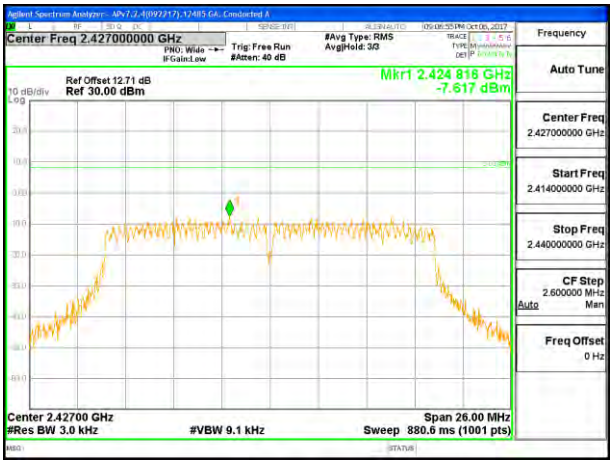


LOW CHANNEL 3 CHAIN 0

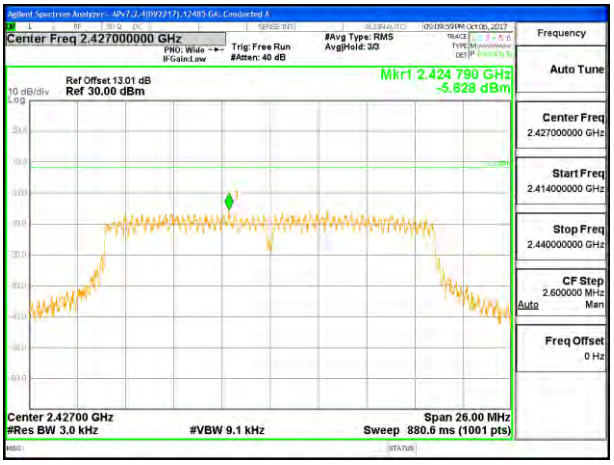


LOW CHANNEL 3 CHAIN 1

LOW CHANNEL 4

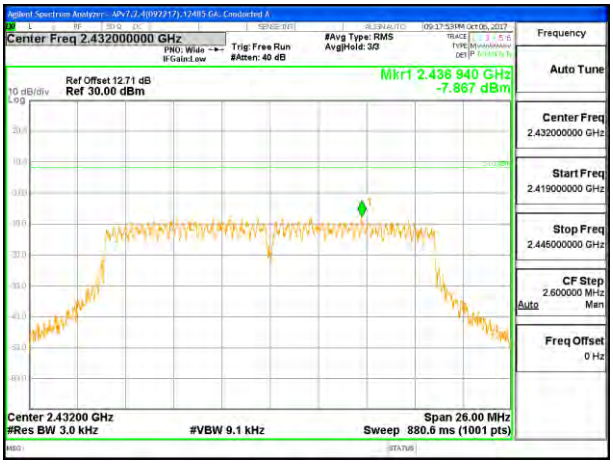


LOW CHANNEL 4 CHAIN 0

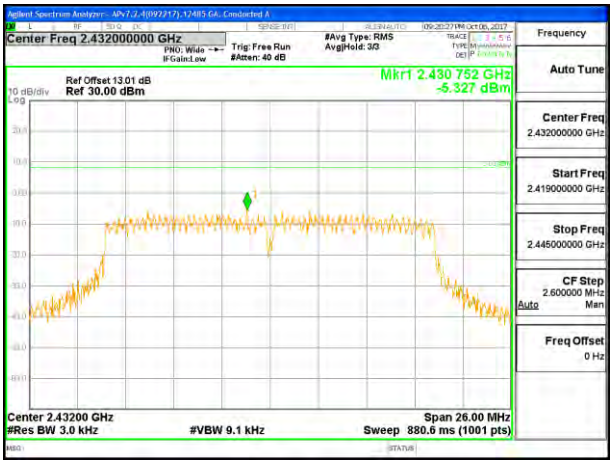


LOW CHANNEL 4 CHAIN 1

LOW CHANNEL 5

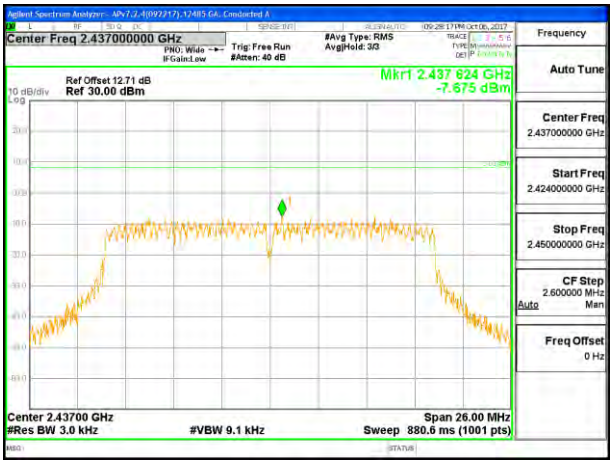


LOW CHANNEL 5 CHAIN 0

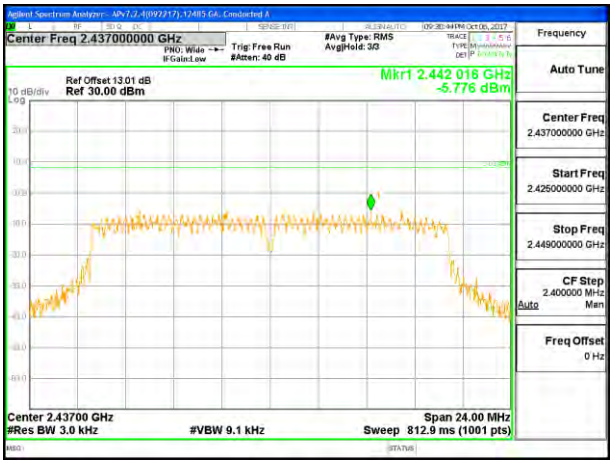


LOW CHANNEL 5 CHAIN 1

MID CHANNEL 6

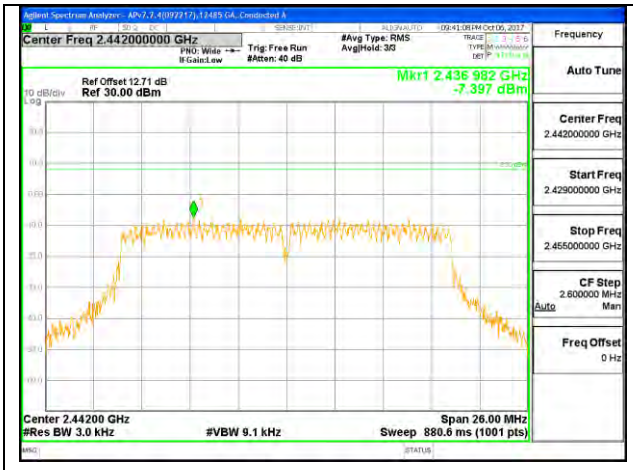


MID CHANNEL 6 CHAIN 0

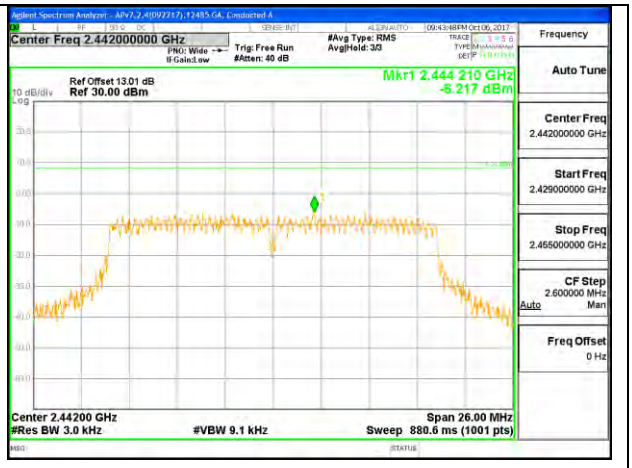


MID CHANNEL 6 CHAIN 1

HIGH CHANNEL 7

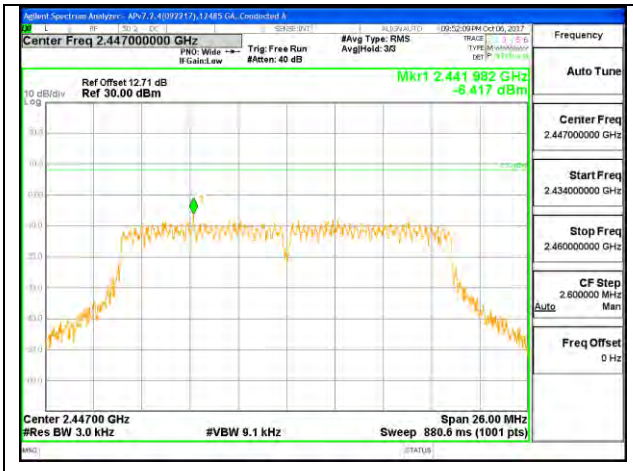


HIGH CHANNEL 7 CHAIN 0

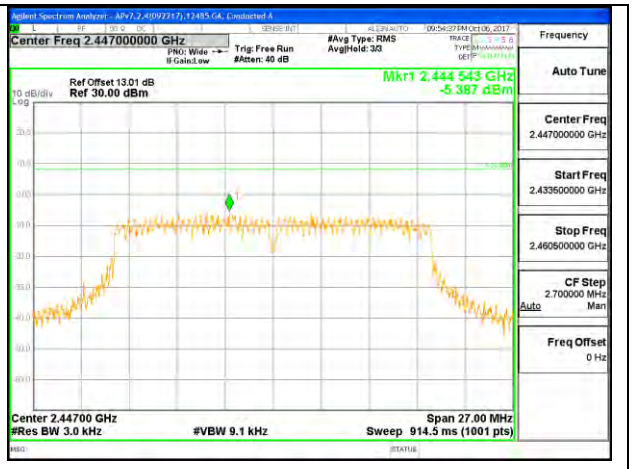


HIGH CHANNEL 7 CHAIN 1

HIGH CHANNEL 8

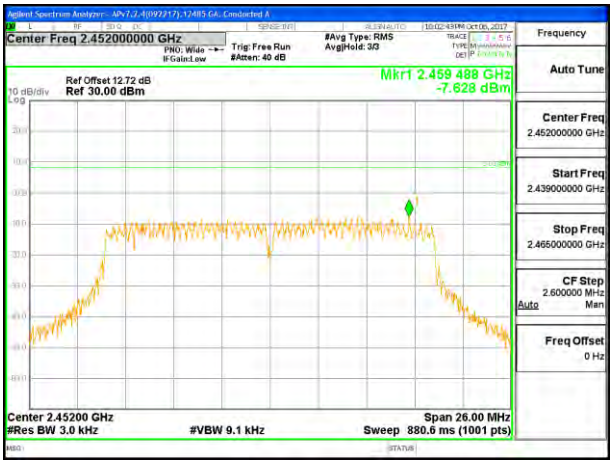


HIGH CHANNEL 8 CHAIN 0

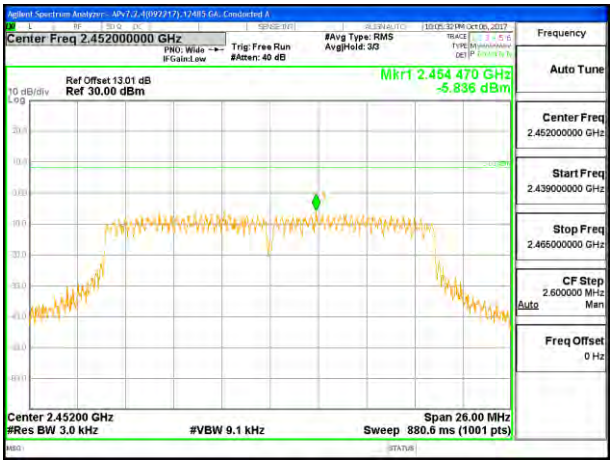


HIGH CHANNEL 8 CHAIN 1

HIGH CHANNEL 9

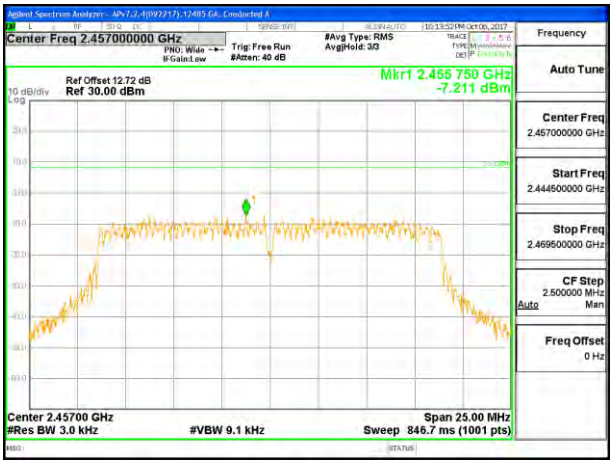


HIGH CHANNEL 9 CHAIN 0

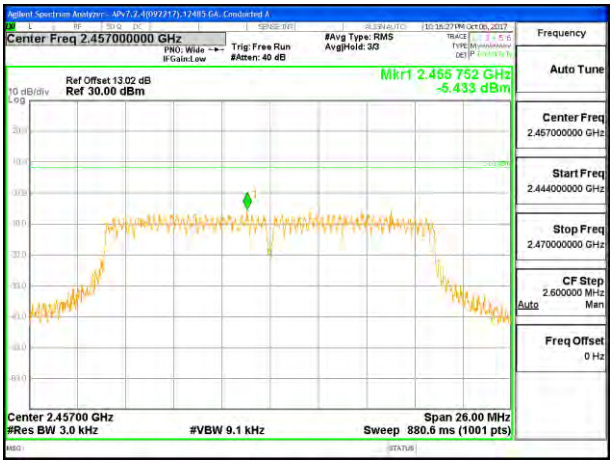


HIGH CHANNEL 9 CHAIN 1

HIGH CHANNEL 10

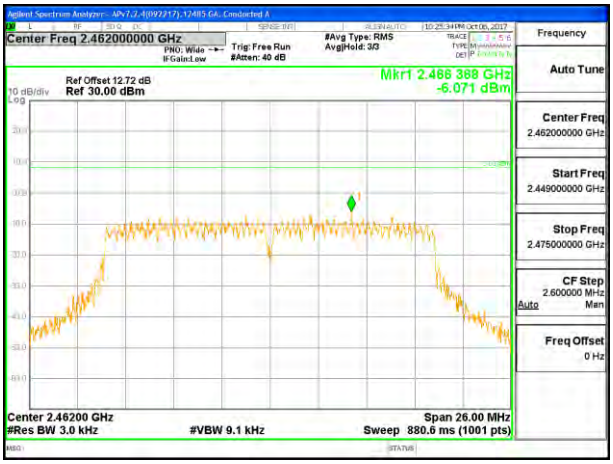


HIGH CHANNEL 10 CHAIN 0

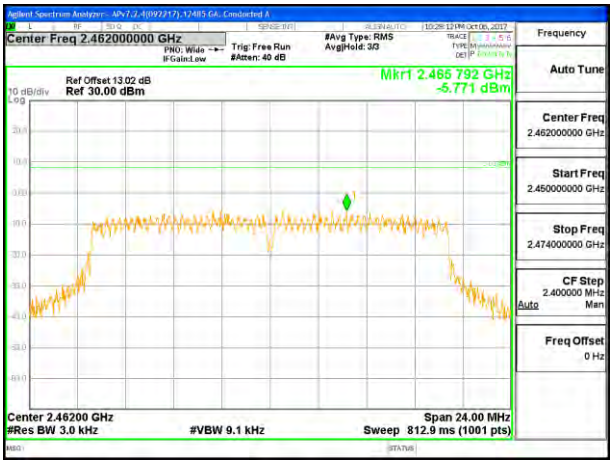


HIGH CHANNEL 10 CHAIN 1

HIGH CHANNEL 11



HIGH CHANNEL 11 CHAIN 0



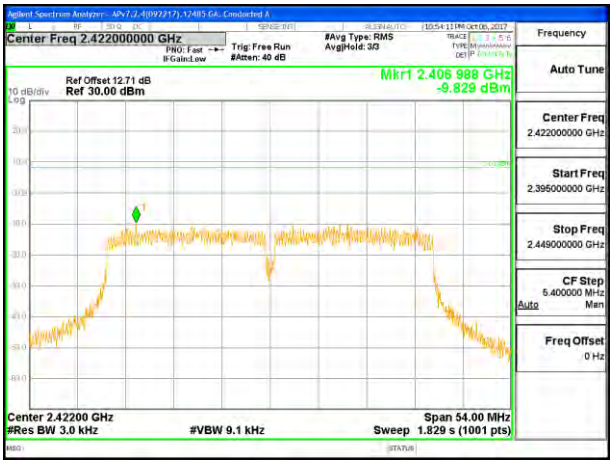
HIGH CHANNEL 11 CHAIN 1

8.6.4. 802.11n HT40 MODE

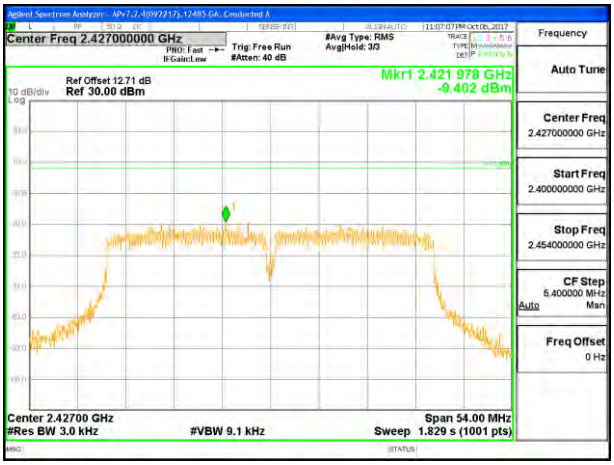
1TX Chain 0 MODE

PSD Results

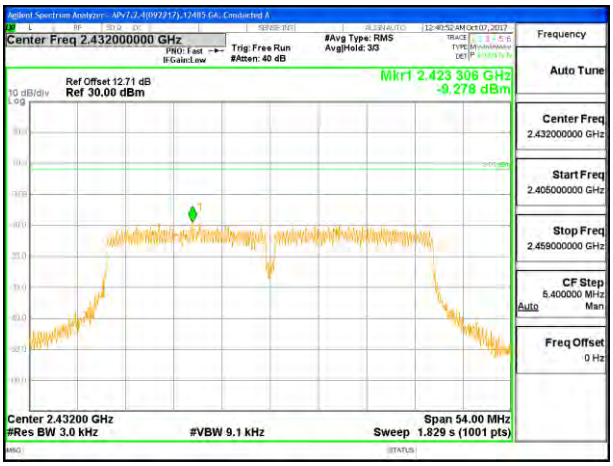
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 3	2422	-9.83	-9.83	8.0	-17.8
Low 4	2427	-9.40	-9.40	8.0	-17.4
Low 5	2432	-9.28	-9.28	8.0	-17.3
Mid 6	2437	-7.20	-7.20	8.0	-15.2
High 7	2442	-9.22	-9.22	8.0	-17.2
High 8	2447	-9.36	-9.36	8.0	-17.4
High 9	2452	-8.52	-8.52	8.0	-16.5



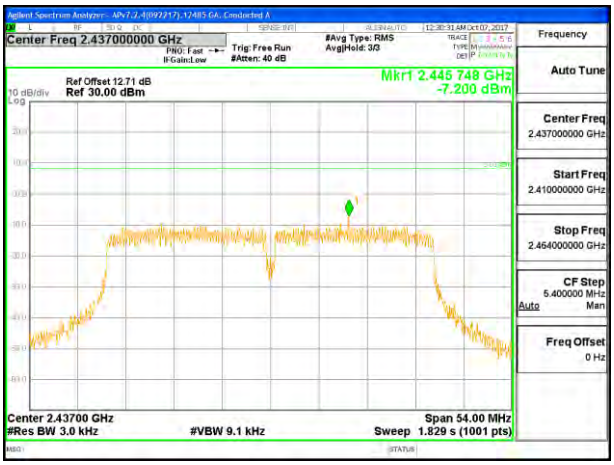
LOW CHANNEL 3



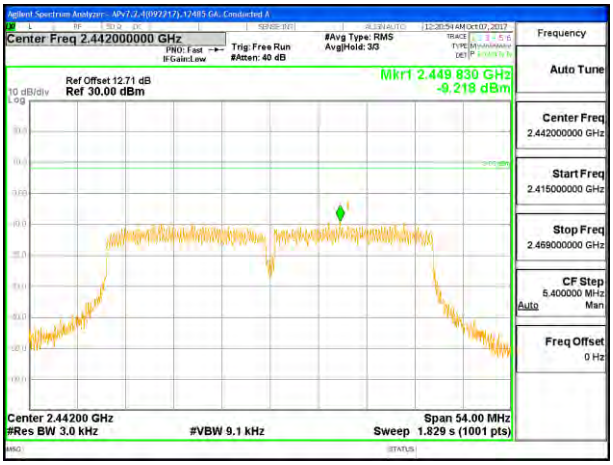
LOW CHANNEL 4



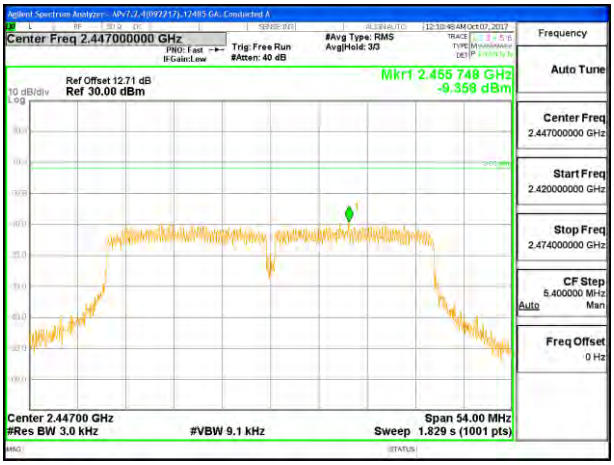
LOW CHANNEL 5



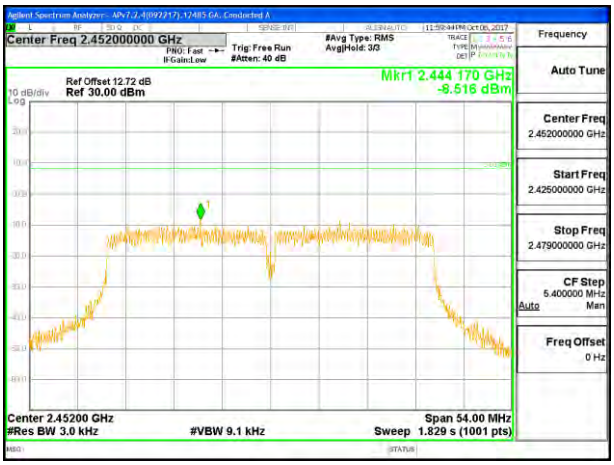
MID CHANNEL 6



HIGH CHANNEL 7



HIGH CHANNEL 8

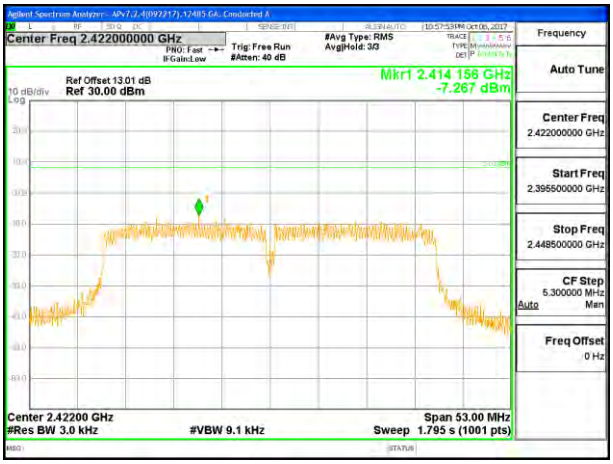


HIGH CHANNEL 9

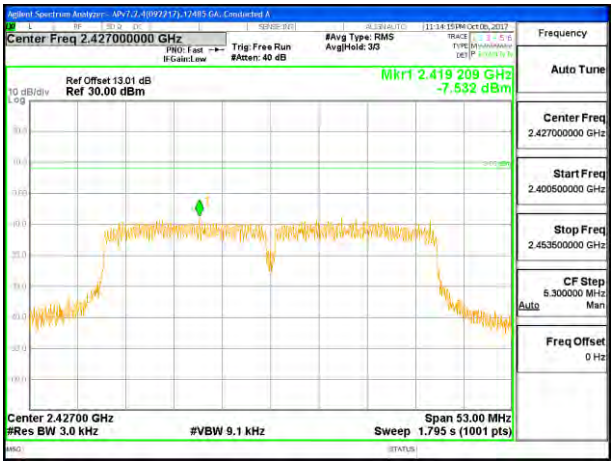
1TX Chain 1 MODE

PSD Results

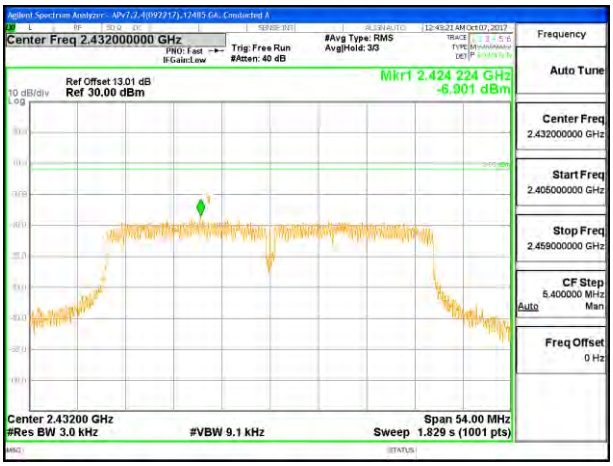
Channel	Frequency (MHz)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 3	2422	-7.27	-7.27	8.0	-15.3
Low 4	2427	-7.53	-7.53	8.0	-15.5
Low 5	2432	-6.90	-6.90	8.0	-14.9
Mid 6	2437	-7.51	-7.51	8.0	-15.5
High 7	2442	-8.24	-8.24	8.0	-16.2
High 8	2447	-6.85	-6.85	8.0	-14.8
High 9	2452	-7.06	-7.06	8.0	-15.1



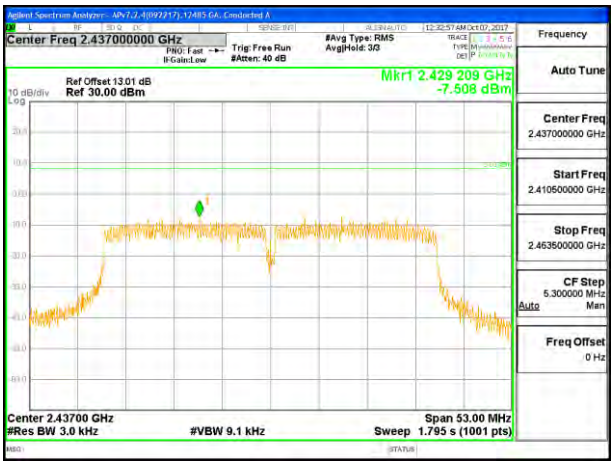
LOW CHANNEL 3



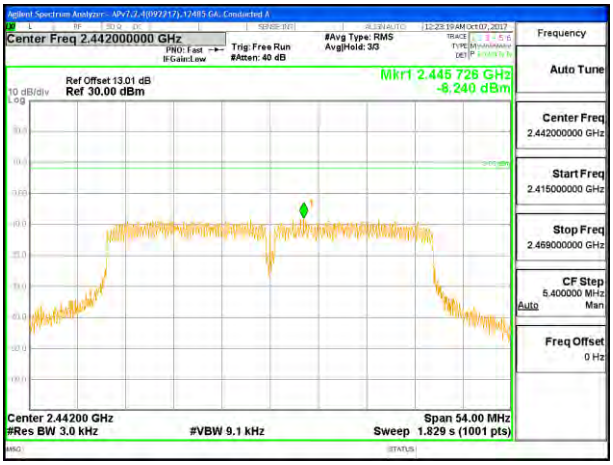
LOW CHANNEL 4



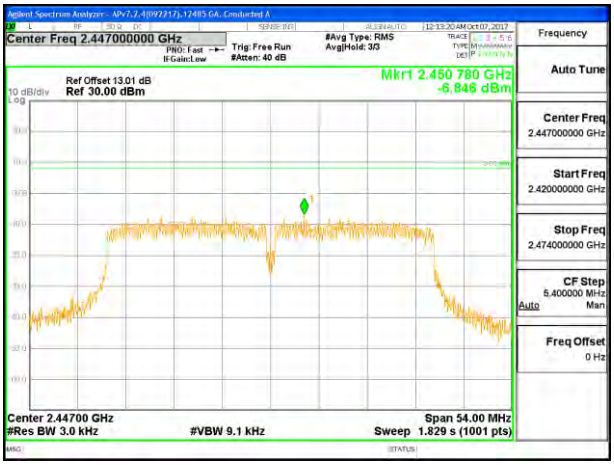
LOW CHANNEL 5



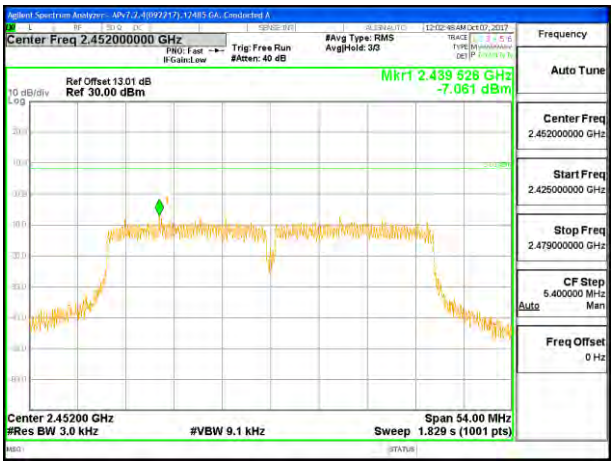
MID CHANNEL 6



HIGH CHANNEL 7



HIGH CHANNEL 8



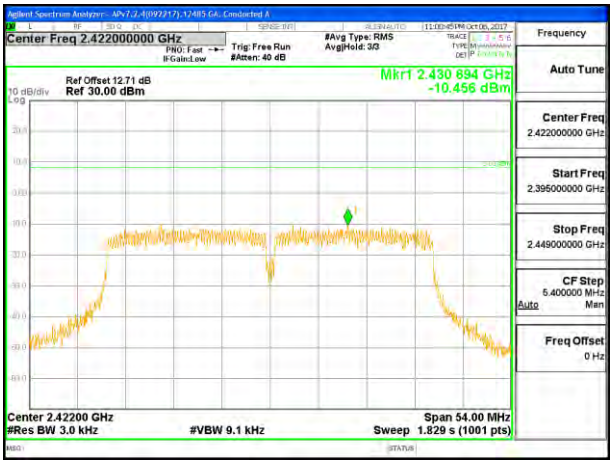
HIGH CHANNEL 9

2TX Chain 0 + Chain 1 CDD MODE

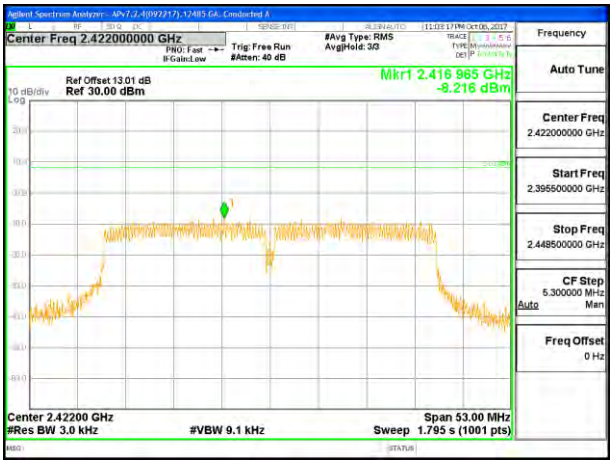
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 3	2422	-10.46	-8.22	-6.19	8.0	-14.2
Low 4	2427	-9.43	-6.78	-4.90	8.0	-12.9
Low 5	2432	-9.64	-6.71	-4.92	8.0	-12.9
Mid 6	2437	-9.31	-7.27	-5.16	8.0	-13.2
High 7	2442	-9.31	-7.27	-5.16	8.0	-13.2
High 8	2447	-8.78	-7.37	-5.01	8.0	-13.0
High 9	2452	-8.68	-6.34	-4.34	8.0	-12.3

LOW CHANNEL 3

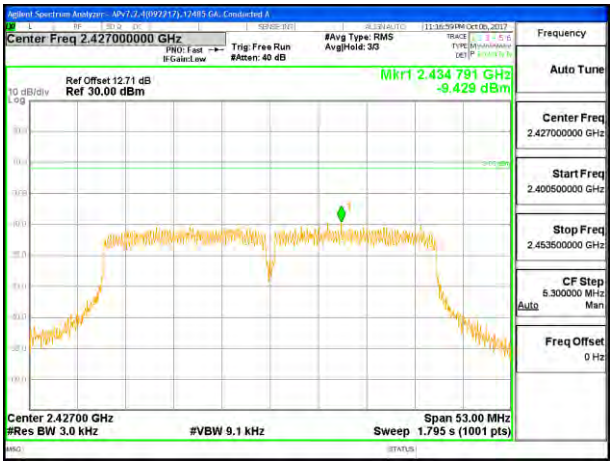


LOW CHANNEL 3 CHAIN 0

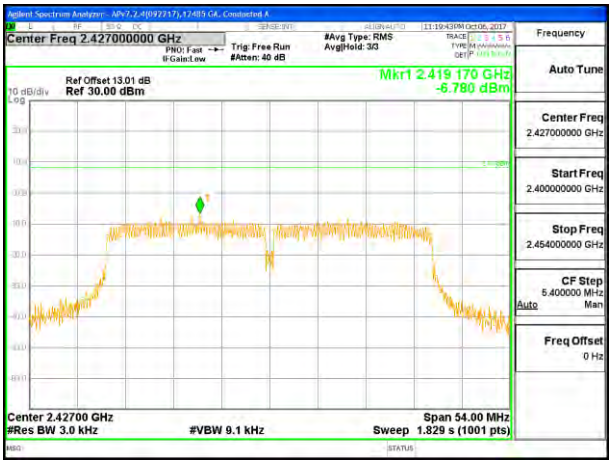


LOW CHANNEL 3 CHAIN 1

LOW CHANNEL 4

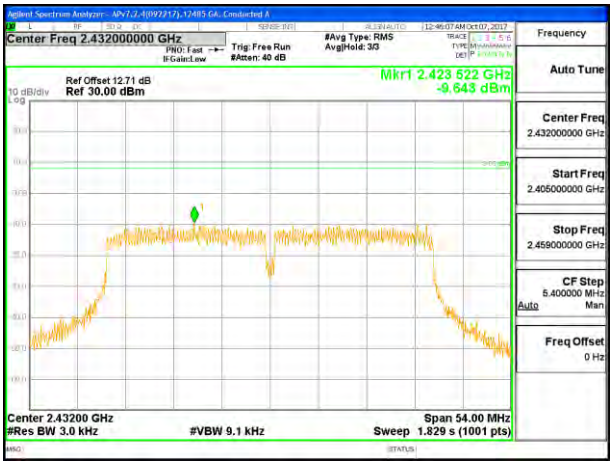


LOW CHANNEL 4 CHAIN 0

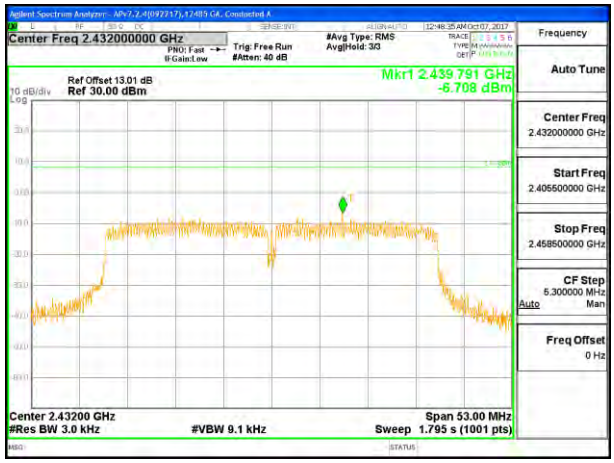


LOW CHANNEL 4 CHAIN 1

LOW CHANNEL 5

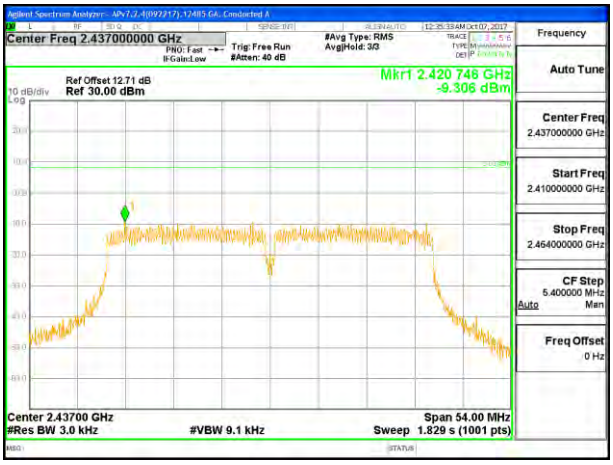


LOW CHANNEL 5 CHAIN 0

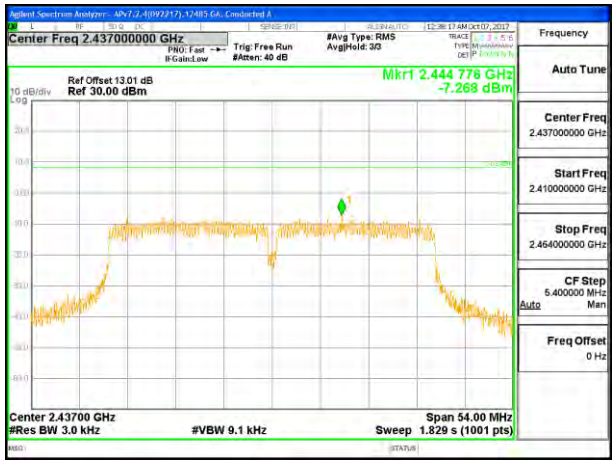


LOW CHANNEL 5 CHAIN 1

MID CHANNEL 6

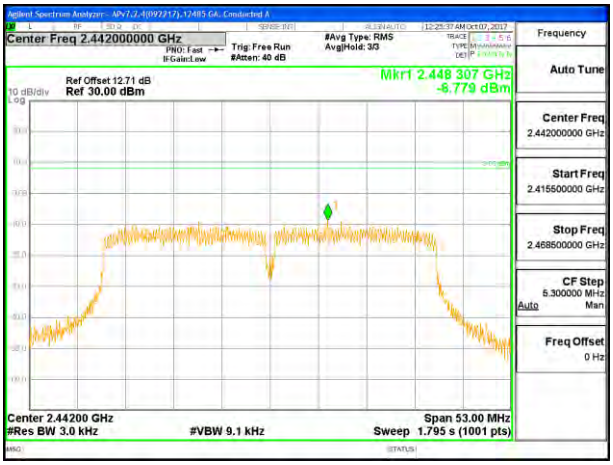


MID CHANNEL 6 CHAIN 0

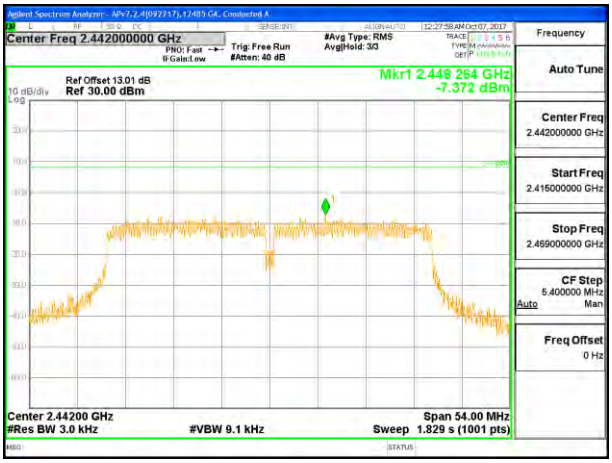


MID CHANNEL 6 CHAIN 1

HIGH CHANNEL 7

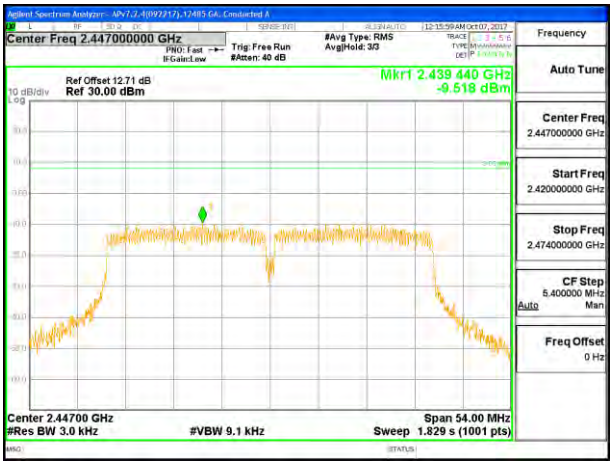


HIGH CHANNEL 7 CHAIN 0

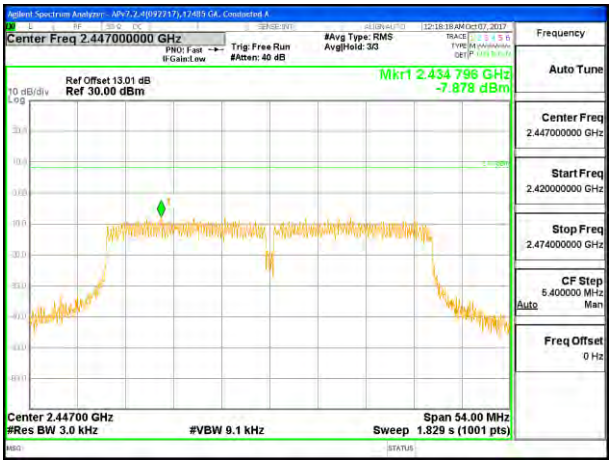


HIGH CHANNEL 7 CHAIN 1

HIGH CHANNEL 8

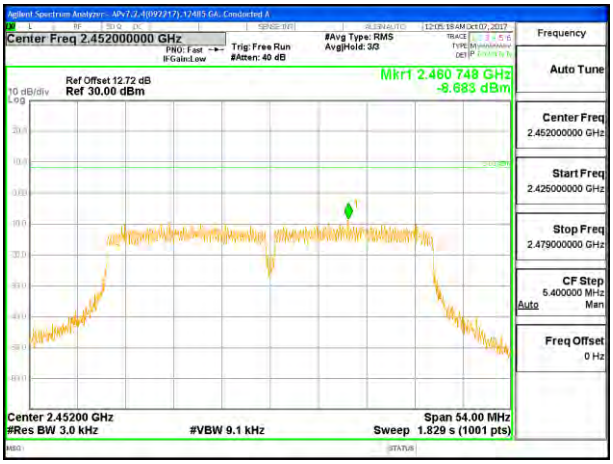


HIGH CHANNEL 8 CHAIN 0

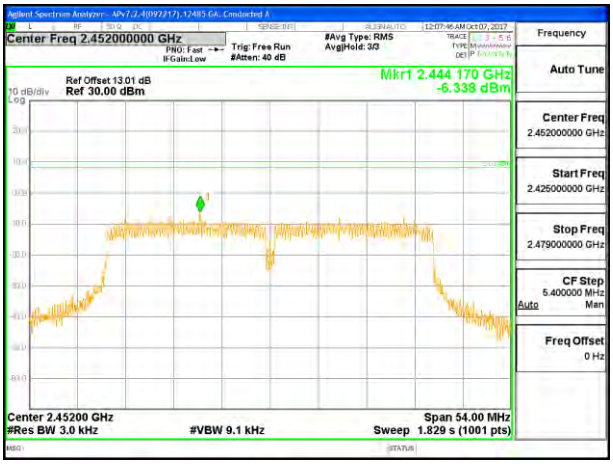


HIGH CHANNEL 8 CHAIN 1

HIGH CHANNEL 9



HIGH CHANNEL 9 CHAIN 0



HIGH CHANNEL 9 CHAIN 1

8.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

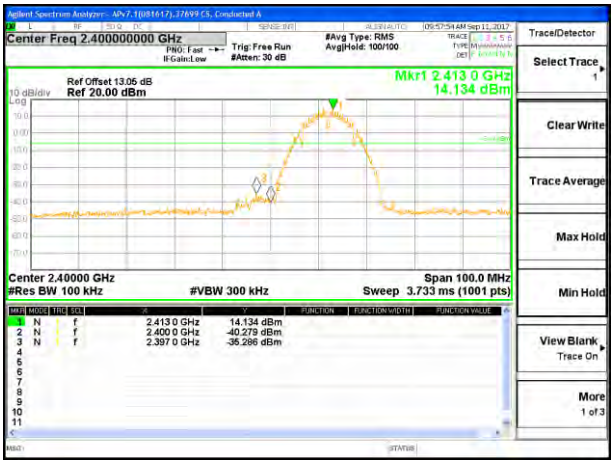
IC RSS-247 5.5

Output power was measured based on the use of peak measurement, therefore the required attenuation is 20 dB.

RESULTS

8.7.1. 802.11b MODE

1TX Chain 0 MODE

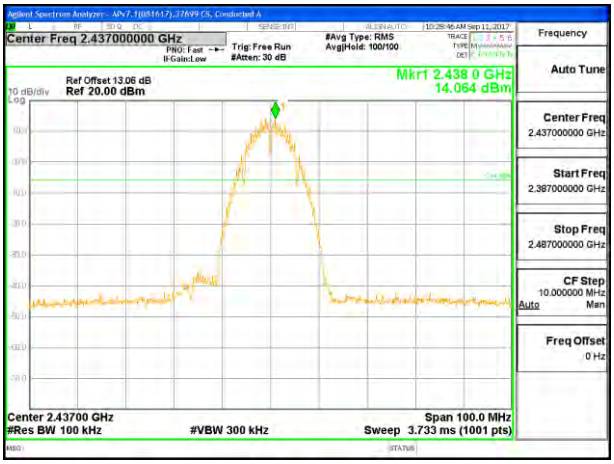


LOW CHANNEL 1 BANDEDGE

OUT-OF-BAND LOW CHANNEL 1

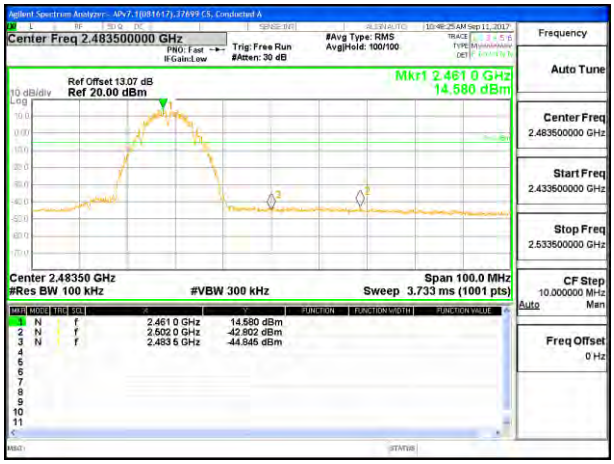
LOW CHANNEL 2 BANDEDGE

OUT-OF-BAND LOW CHANNEL 2



IN-BAND REFERNCE LEVEL

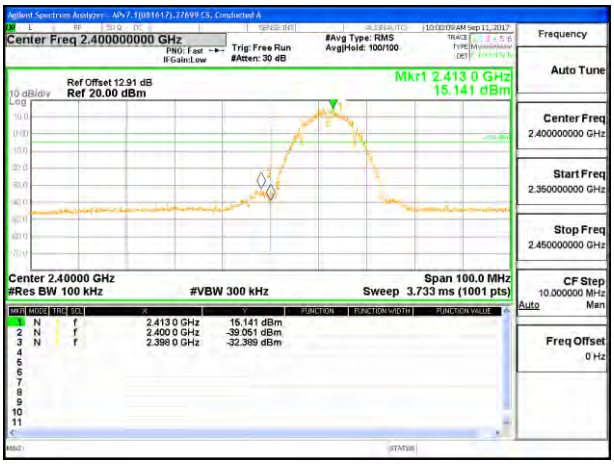
OUT-OF-BAND MID CHANNEL



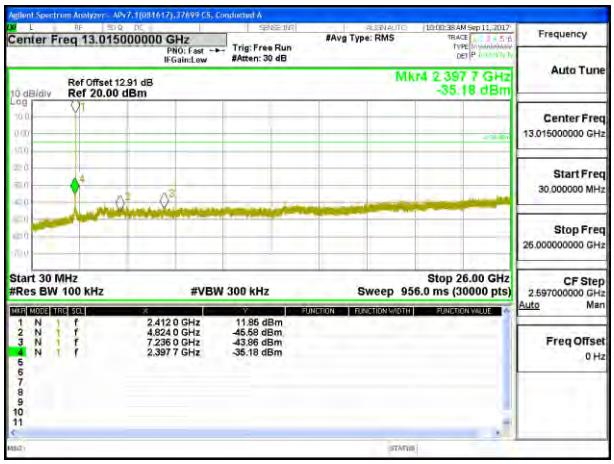
HIGH CHANNEL 11 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 11

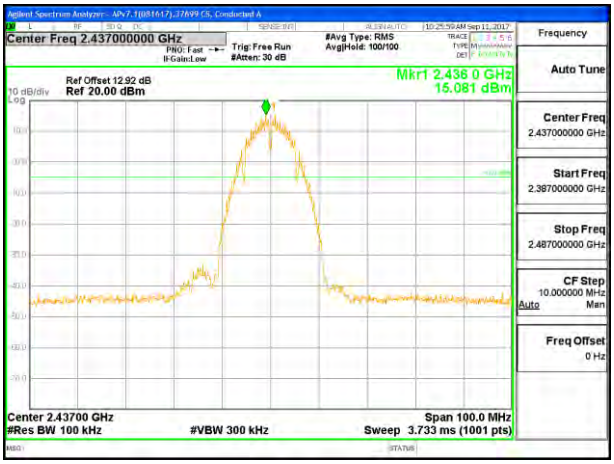
1TX Chain 1 MODE



LOW CHANNEL 1 BANDEDGE



OUT-OF-BAND LOW CHANNEL 1



IN-BAND REFERNCE LEVEL

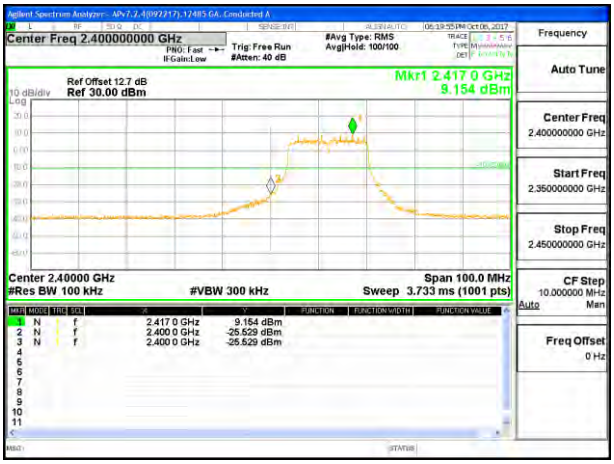
OUT-OF-BAND MID CHANNEL

HIGH CHANNEL 11 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 11

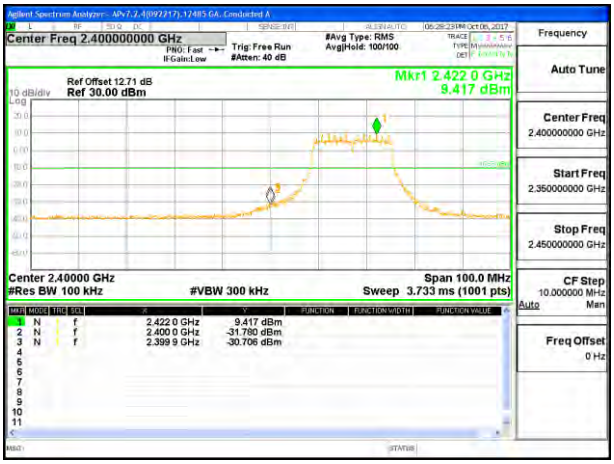
8.7.2. 802.11g MODE

1TX Chain 0 MODE

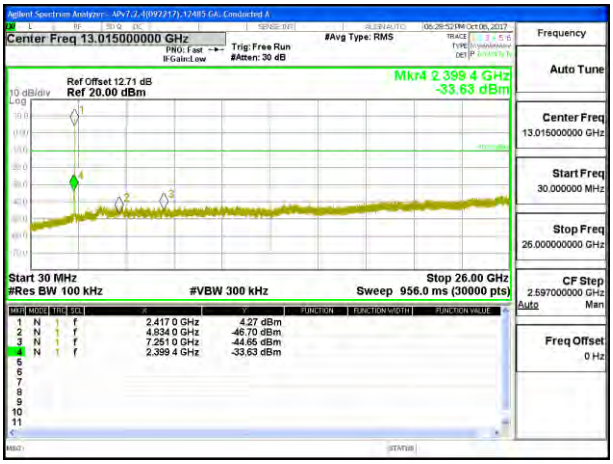


LOW CHANNEL 1 BANDEDGE

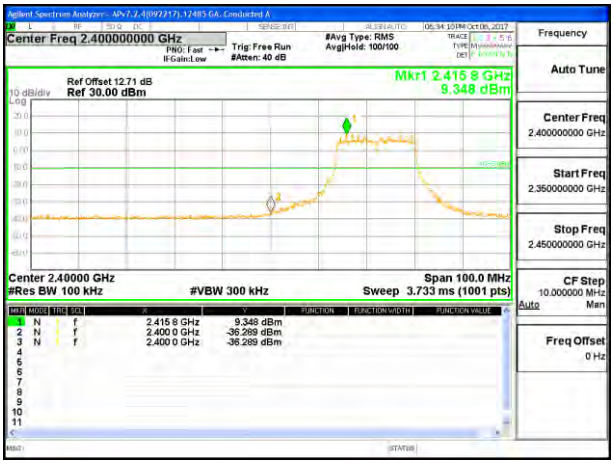
OUT-OF-BAND LOW CHANNEL 1



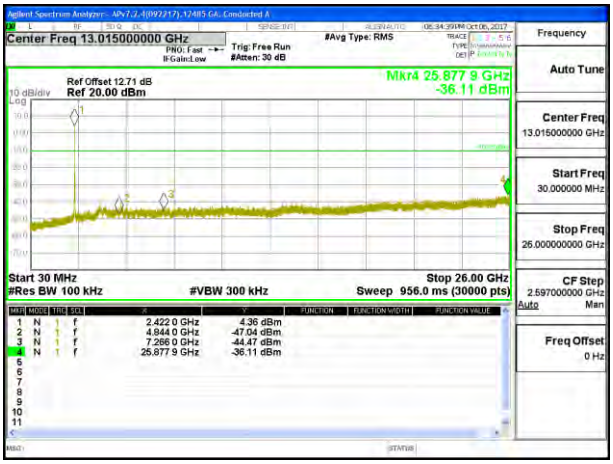
LOW CHANNEL 2 BANDEDGE



OUT-OF-BAND LOW CHANNEL 2

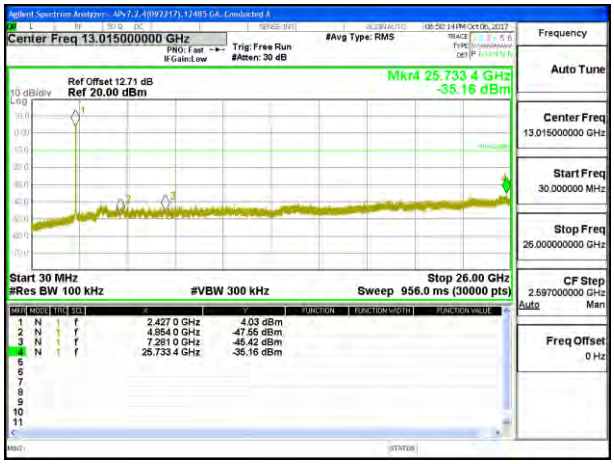


LOW CHANNEL 3 BANDEDGE

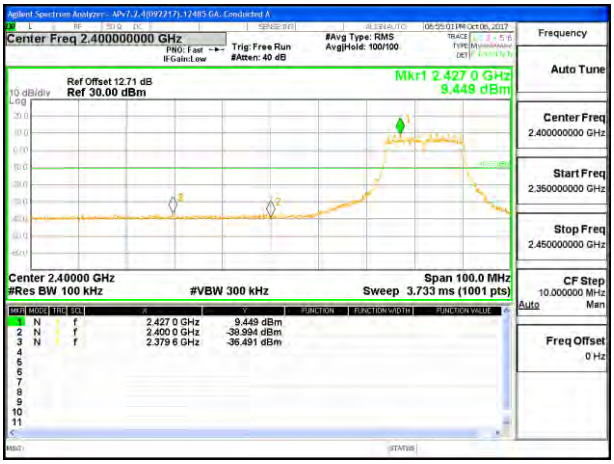


OUT-OF-BAND LOW CHANNEL 3

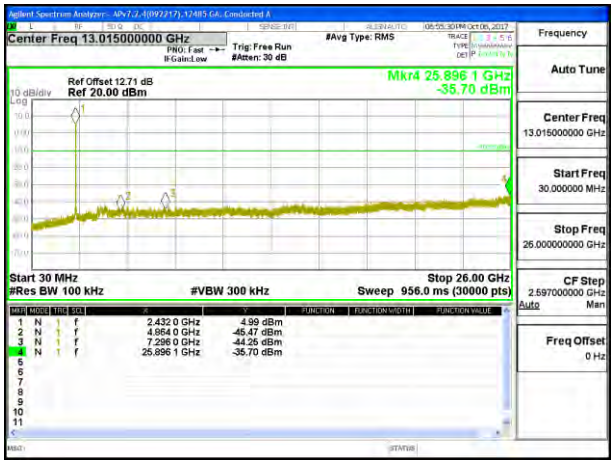
LOW CHANNEL 4 BANDEDGE



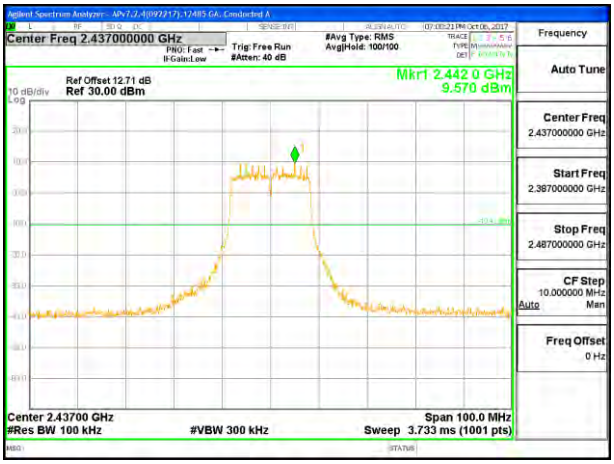
OUT-OF-BAND LOW CHANNEL 4



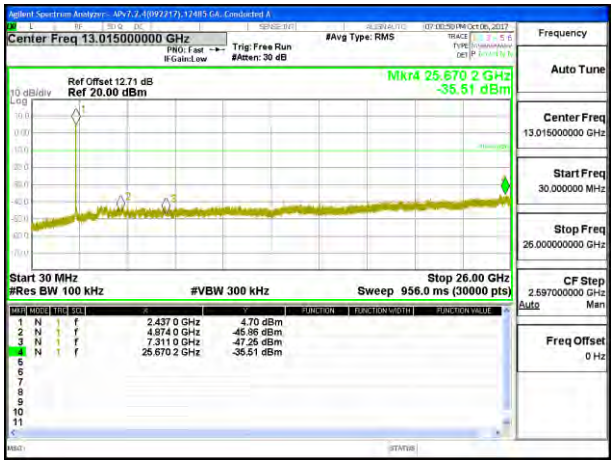
LOW CHANNEL 5 BANDEDGE



OUT-OF-BAND LOW CHANNEL 5

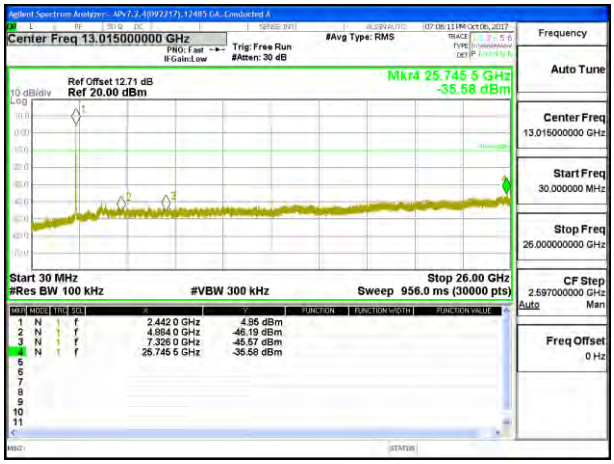


IN-BAND REFERNCE LEVEL

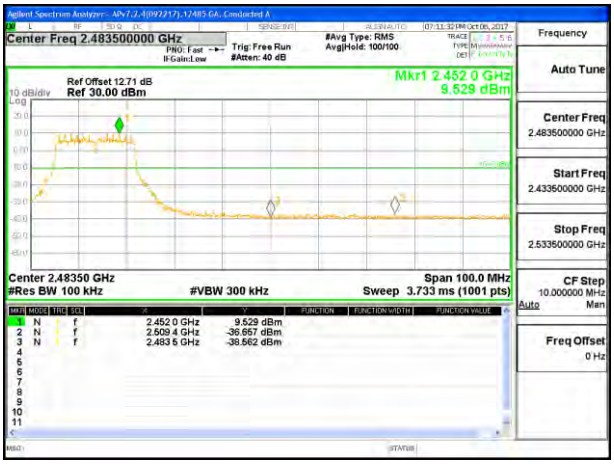


OUT-OF-BAND MID CHANNEL

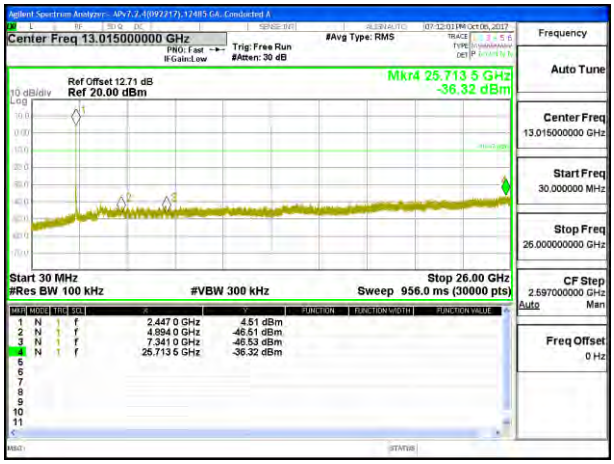
HIGH CHANNEL 7 BANDEDGE



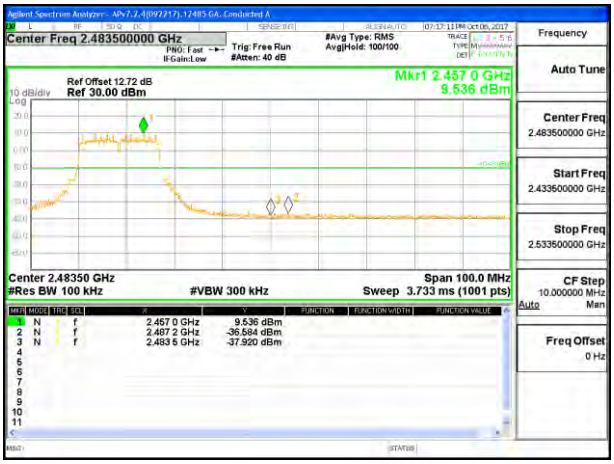
OUT-OF-BAND HIGH CHANNEL 7



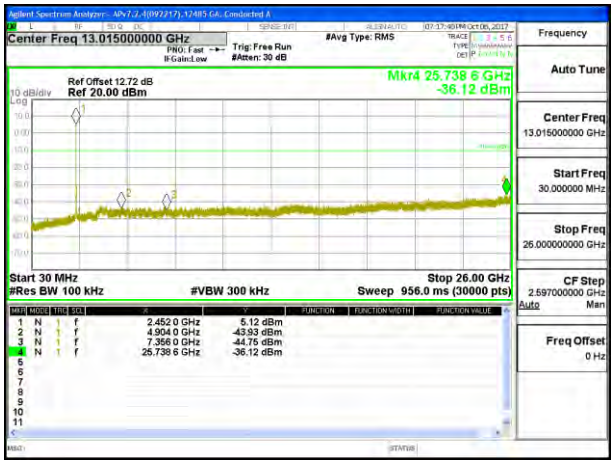
HIGH CHANNEL 8 BANDEDGE



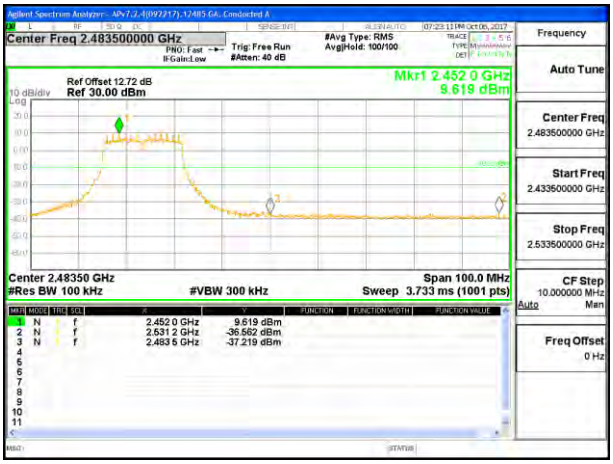
OUT-OF-BAND HIGH CHANNEL 8



HIGH CHANNEL 9 BANDEDGE

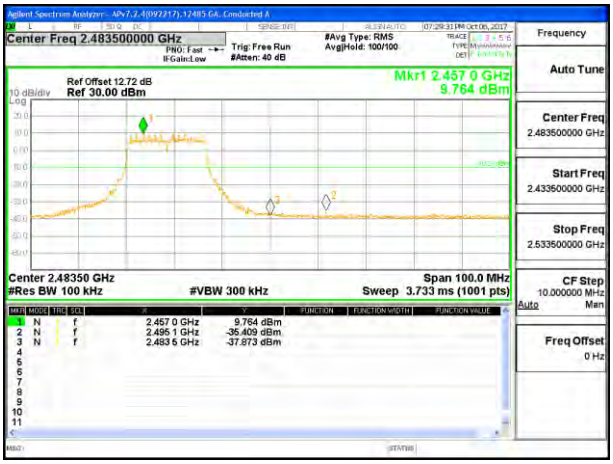


OUT-OF-BAND HIGH CHANNEL 9



HIGH CHANNEL 10 BANDEDGE

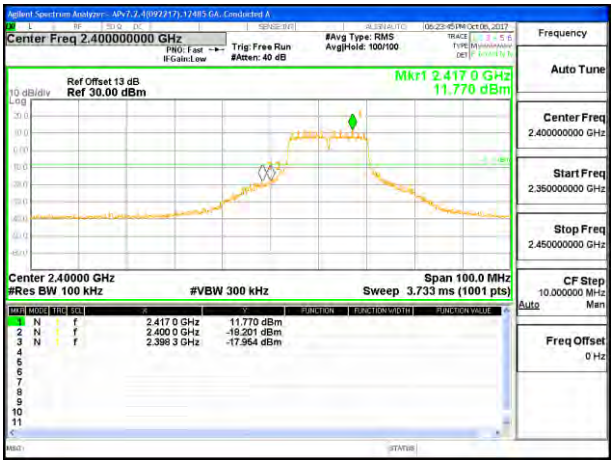
OUT-OF-BAND HIGH CHANNEL 10



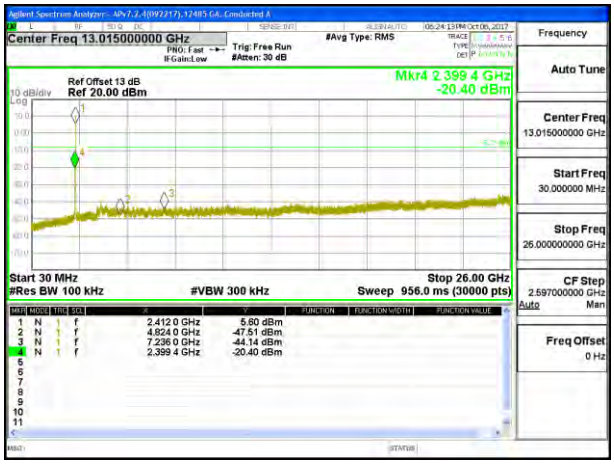
HIGH CHANNEL 11 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 11

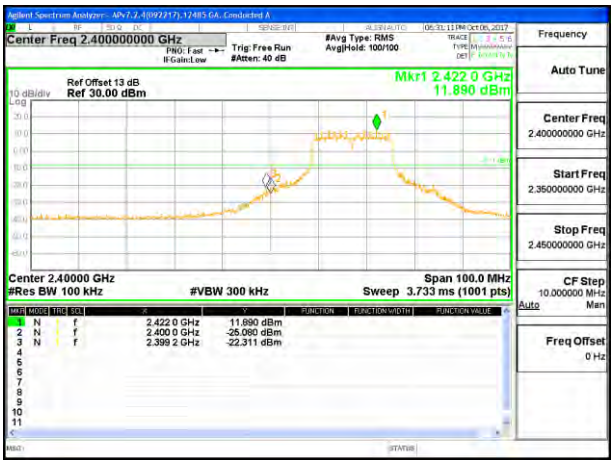
1TX Chain 1 MODE



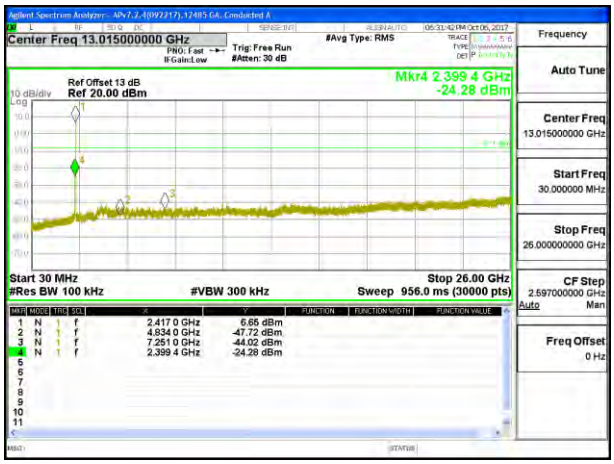
LOW CHANNEL 1 BANDEDGE



OUT-OF-BAND LOW CHANNEL 1

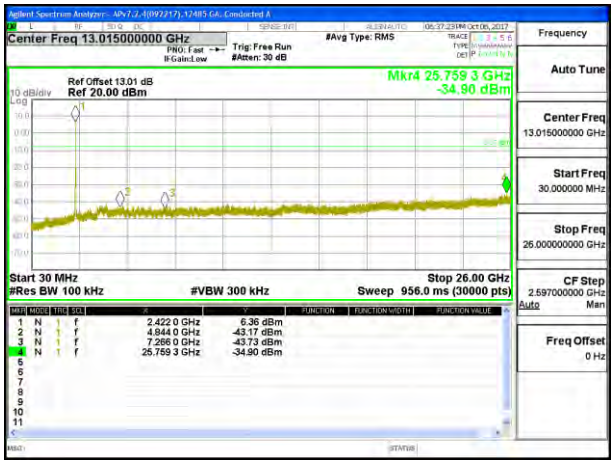


LOW CHANNEL 2 BANDEDGE

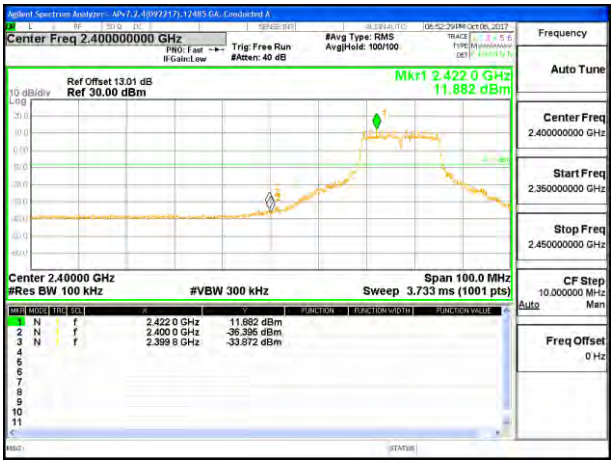


OUT-OF-BAND LOW CHANNEL 2

LOW CHANNEL 3 BANDEDGE



OUT-OF-BAND LOW CHANNEL 3

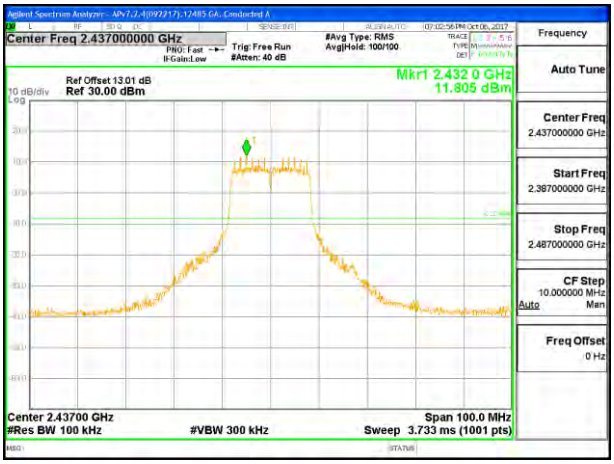


LOW CHANNEL 4 BANDEDGE

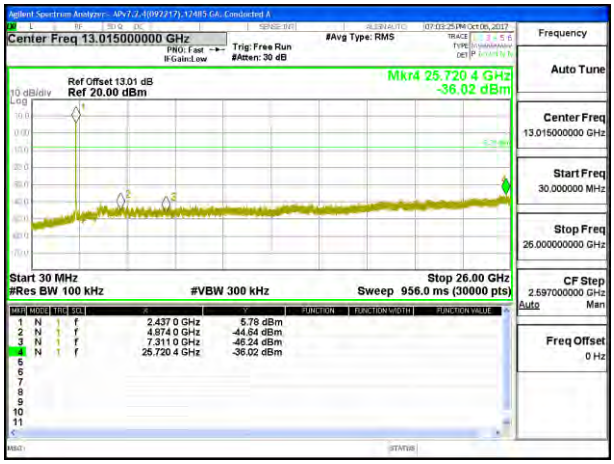
OUT-OF-BAND LOW CHANNEL 4

LOW CHANNEL 5 BANDEDGE

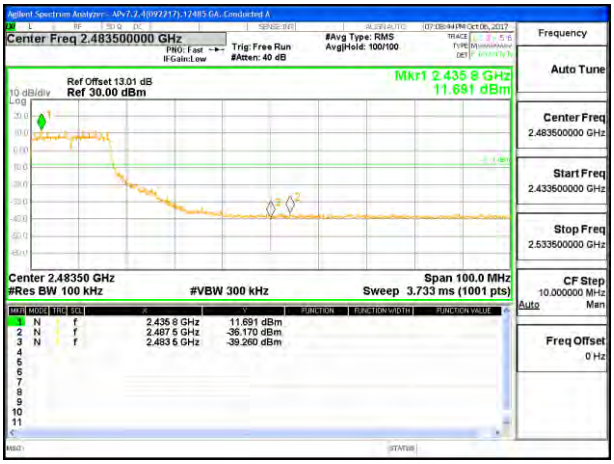
OUT-OF-BAND LOW CHANNEL 5



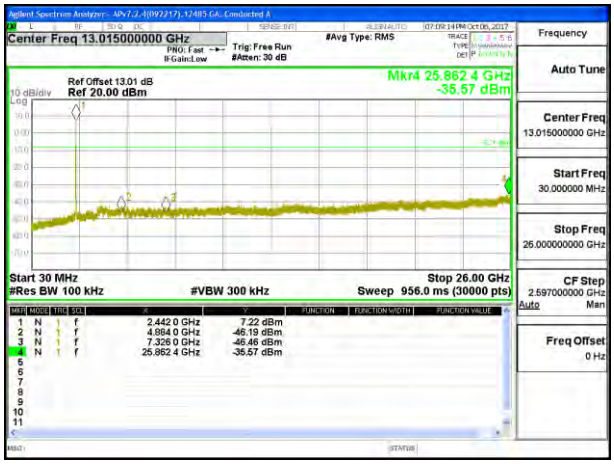
IN-BAND REFERNCE LEVEL



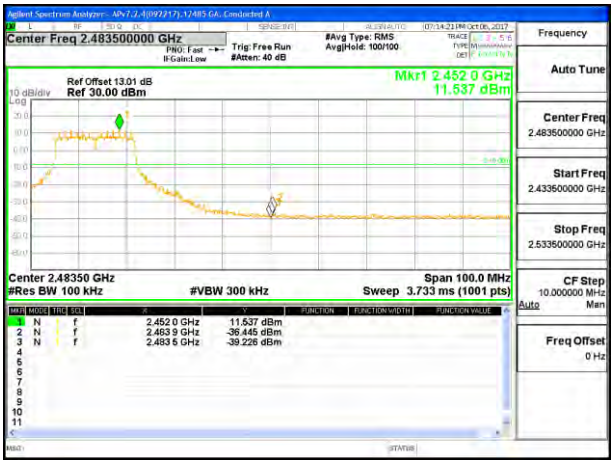
OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 7 BANDEDGE

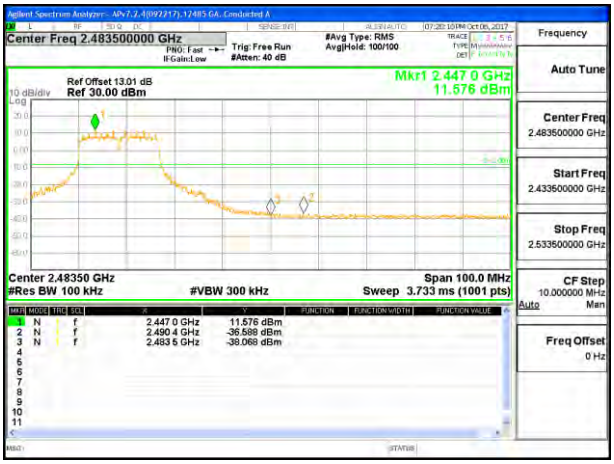


OUT-OF-BAND HIGH CHANNEL 7

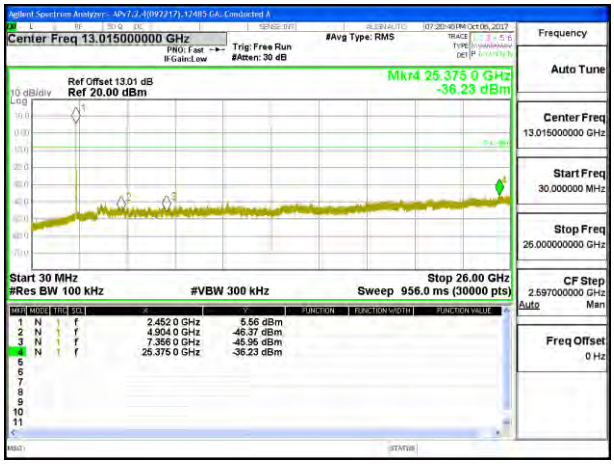


HIGH CHANNEL 8 BANDEDGE

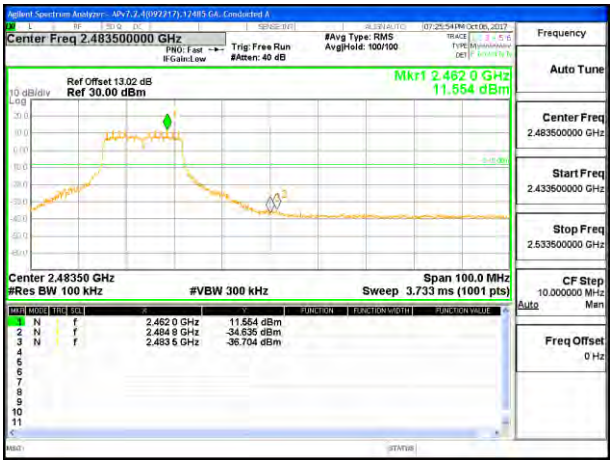
OUT-OF-BAND HIGH CHANNEL 8



HIGH CHANNEL 9 BANDEDGE

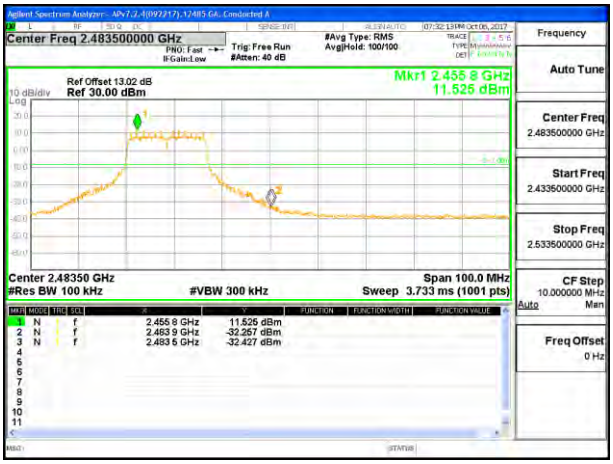


OUT-OF-BAND HIGH CHANNEL 9



HIGH CHANNEL 10 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 10

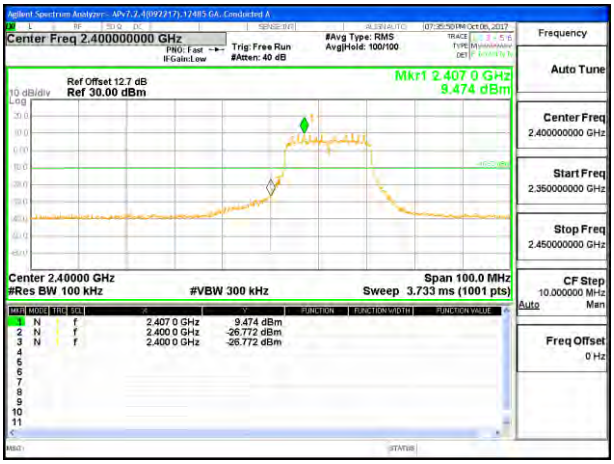


HIGH CHANNEL 11 BANDEDGE

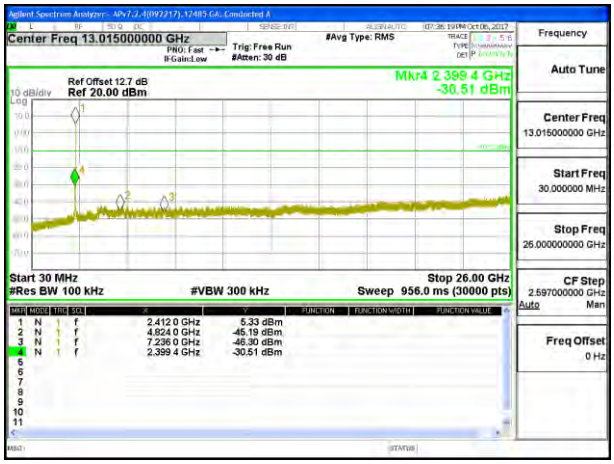
OUT-OF-BAND HIGH CHANNEL 11

8.7.3. 802.11n HT20 MODE

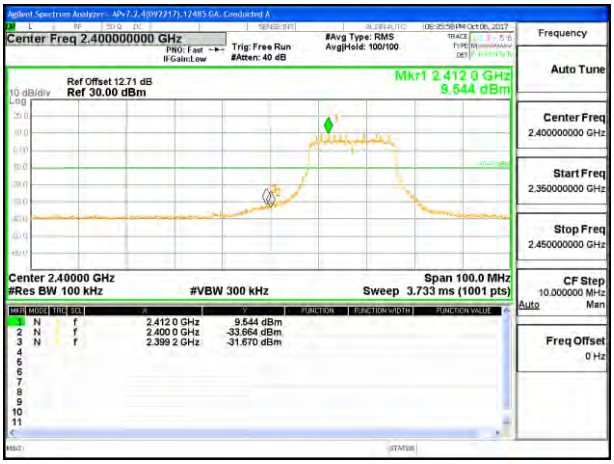
1TX Chain 0 MODE



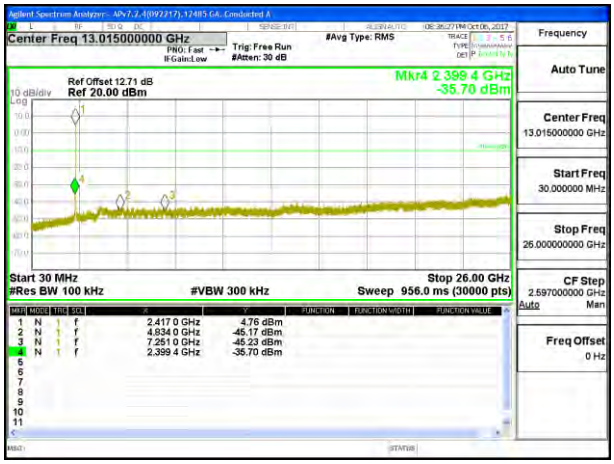
LOW CHANNEL 1 BANDEDGE



OUT-OF-BAND LOW CHANNEL 1

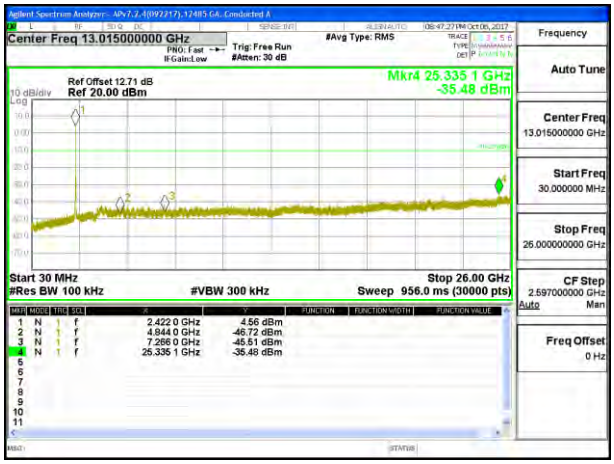


LOW CHANNEL 2 BANDEDGE



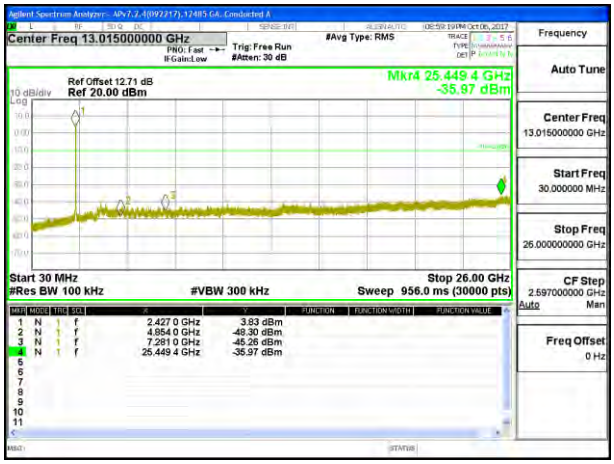
OUT-OF-BAND LOW CHANNEL 2

LOW CHANNEL 3 BANDEDGE

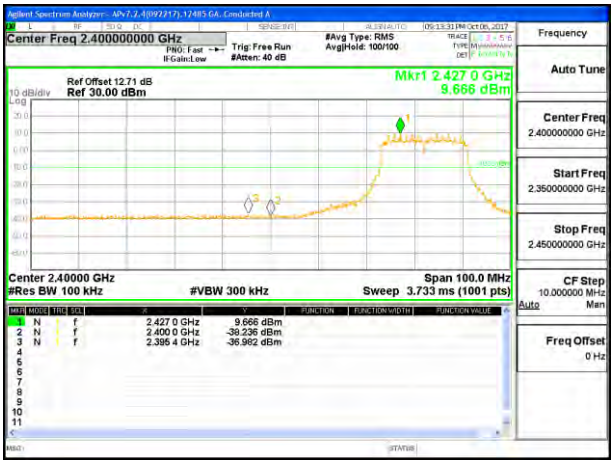


OUT-OF-BAND LOW CHANNEL 3

LOW CHANNEL 4 BANDEDGE

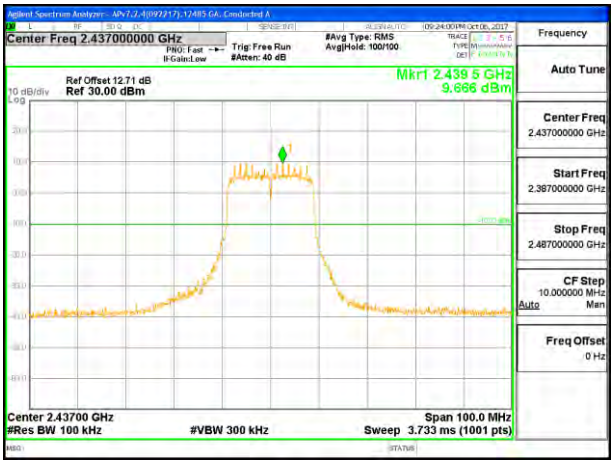


OUT-OF-BAND LOW CHANNEL 4

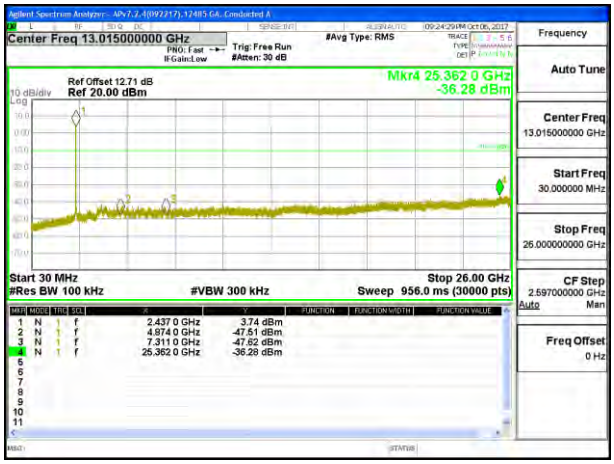


LOW CHANNEL 5 BANDEDGE

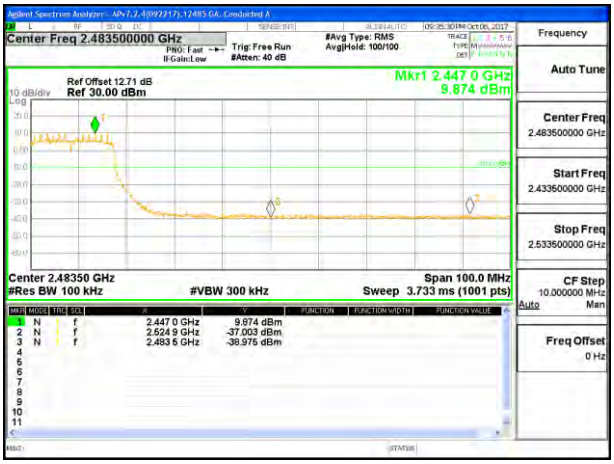
OUT-OF-BAND LOW CHANNEL 5



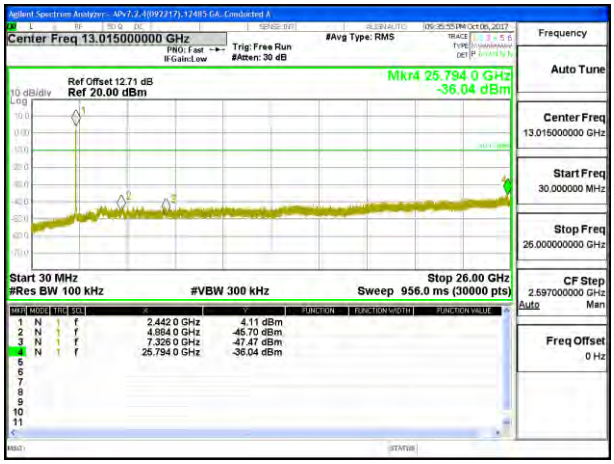
IN-BAND REFERNCE LEVEL



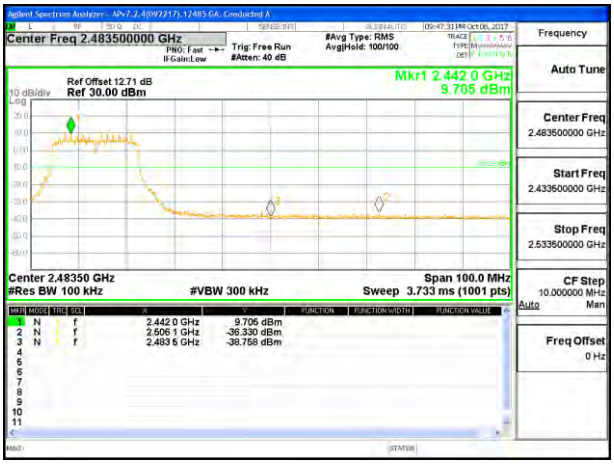
OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 7 BANDEDGE

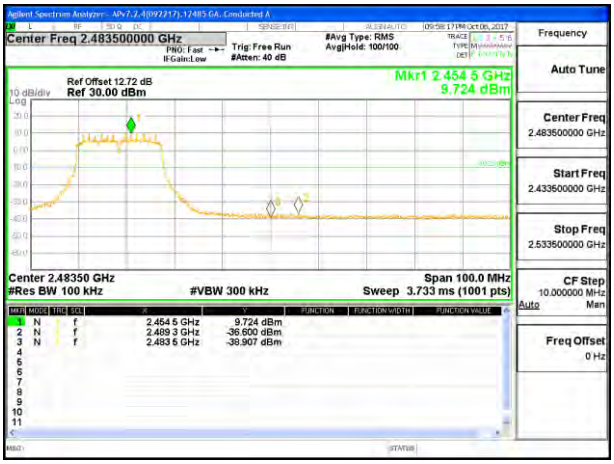


OUT-OF-BAND HIGH CHANNEL 7

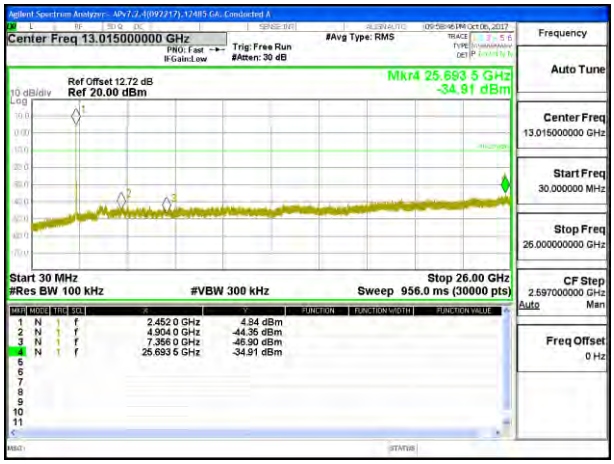


HIGH CHANNEL 8 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 8

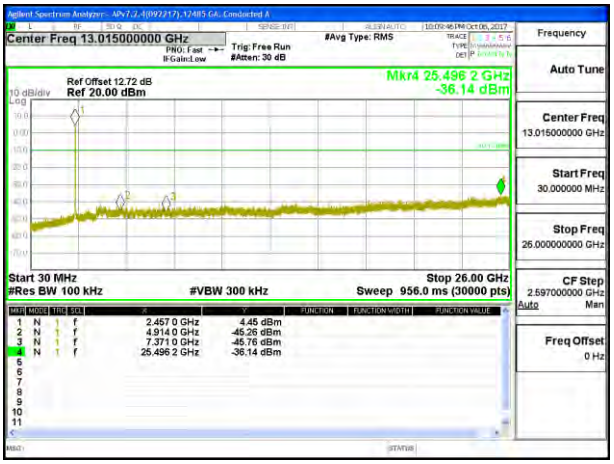


HIGH CHANNEL 9 BANDEDGE

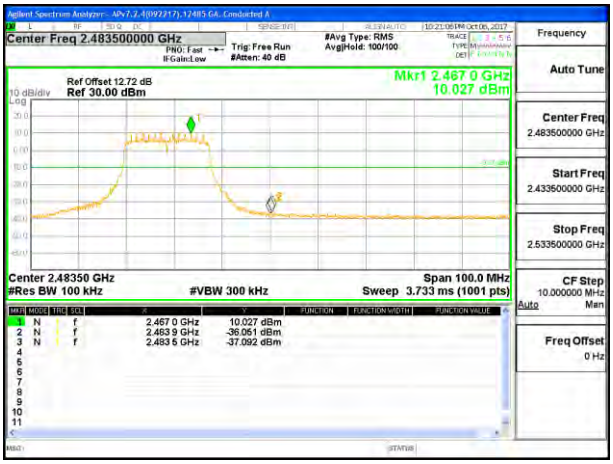


OUT-OF-BAND HIGH CHANNEL 9

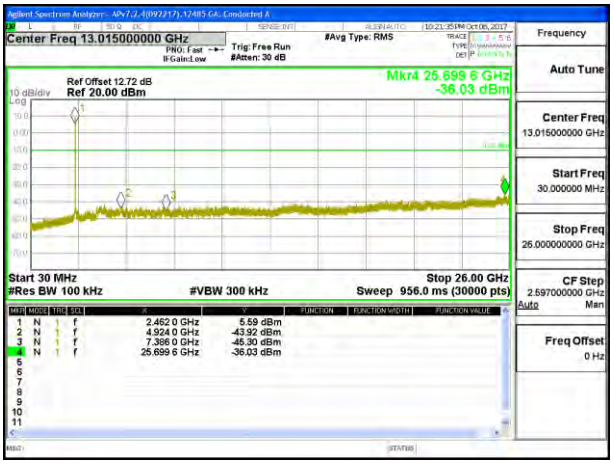
HIGH CHANNEL 10 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 10

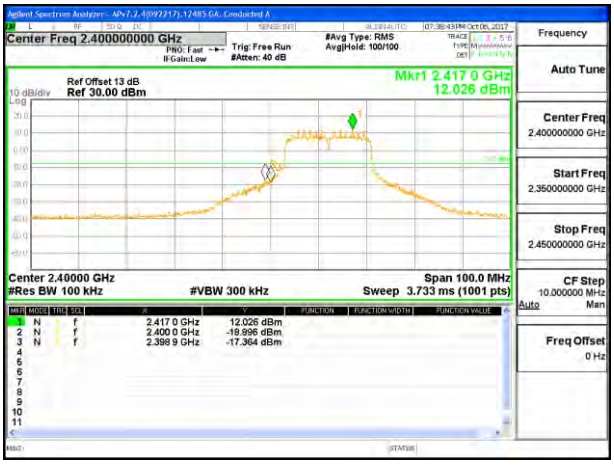


HIGH CHANNEL 11 BANDEDGE

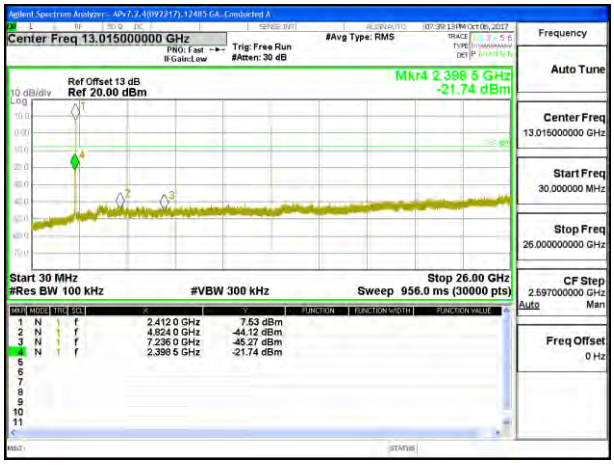


OUT-OF-BAND HIGH CHANNEL 11

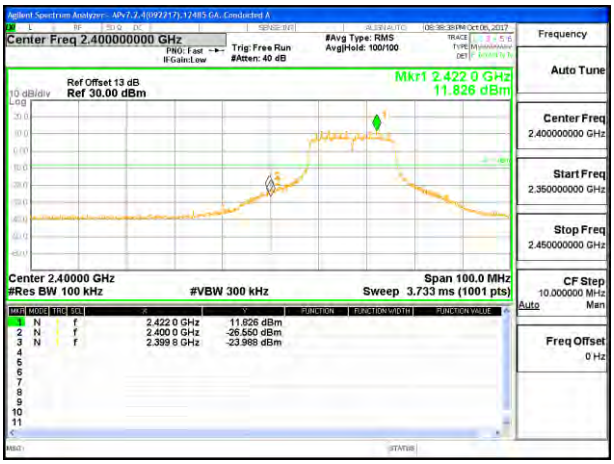
1TX Chain 1 MODE



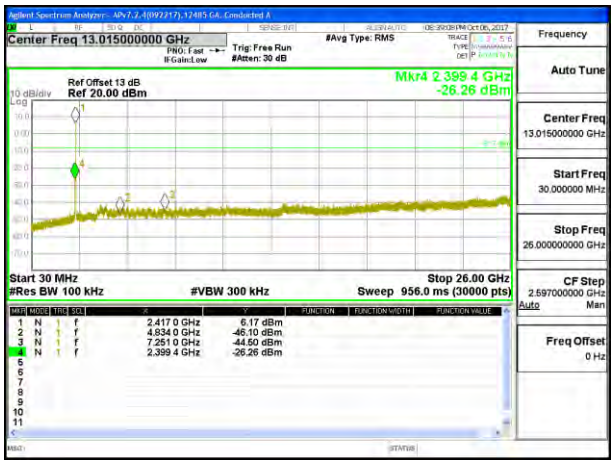
LOW CHANNEL 1 BANDEDGE



OUT-OF-BAND LOW CHANNEL 1

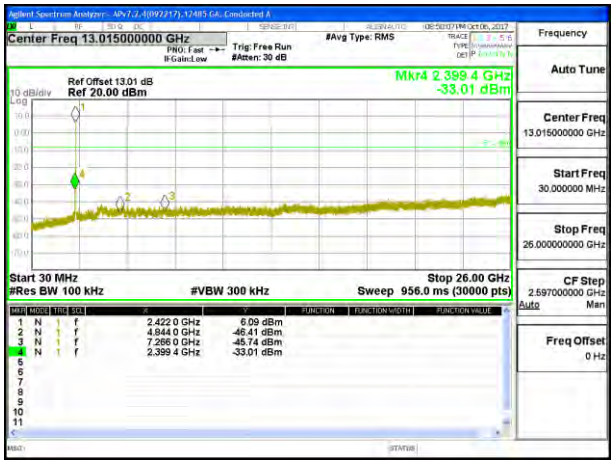


LOW CHANNEL 2 BANDEDGE

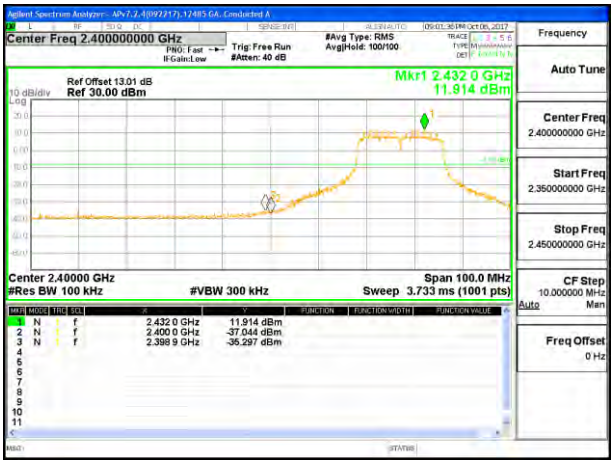


OUT-OF-BAND LOW CHANNEL 2

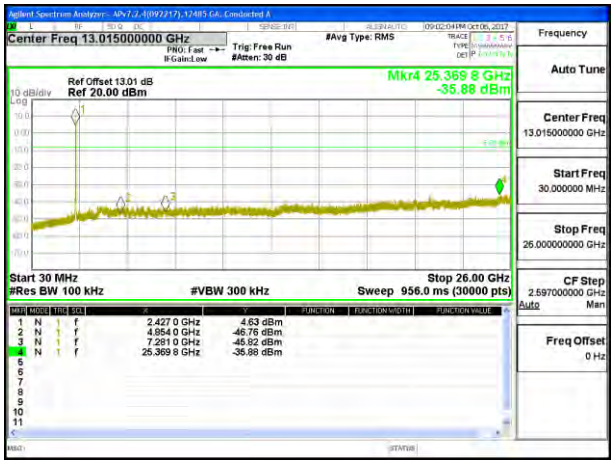
LOW CHANNEL 3 BANDEDGE



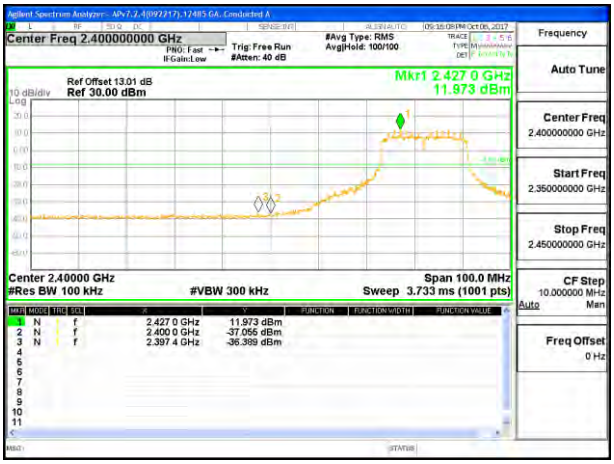
OUT-OF-BAND LOW CHANNEL 3



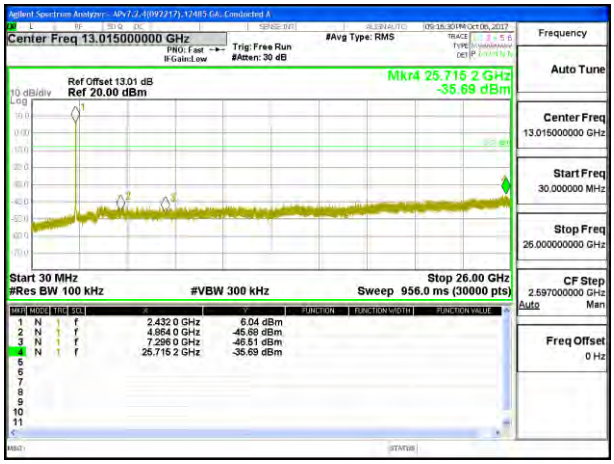
LOW CHANNEL 4 BANDEDGE



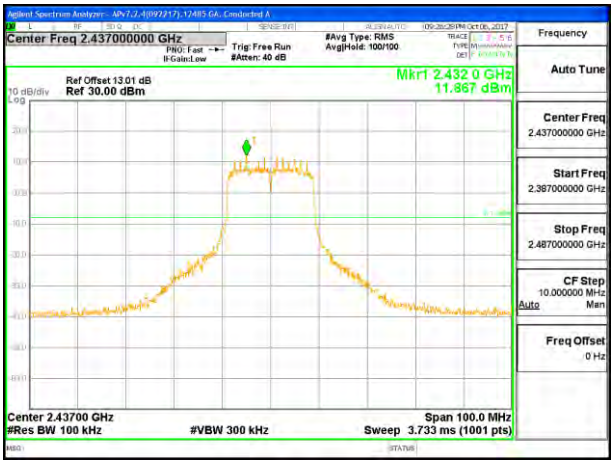
OUT-OF-BAND LOW CHANNEL 4



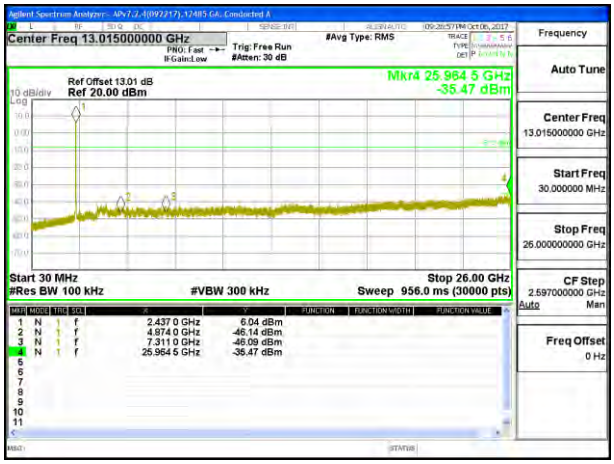
LOW CHANNEL 5 BANDEDGE



OUT-OF-BAND LOW CHANNEL 5



IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL