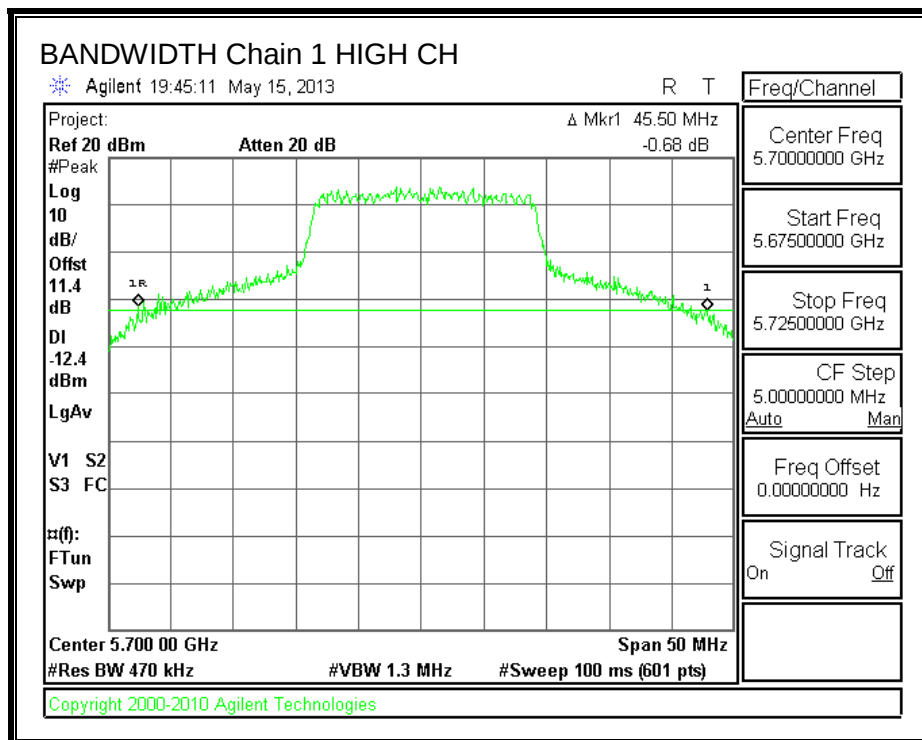
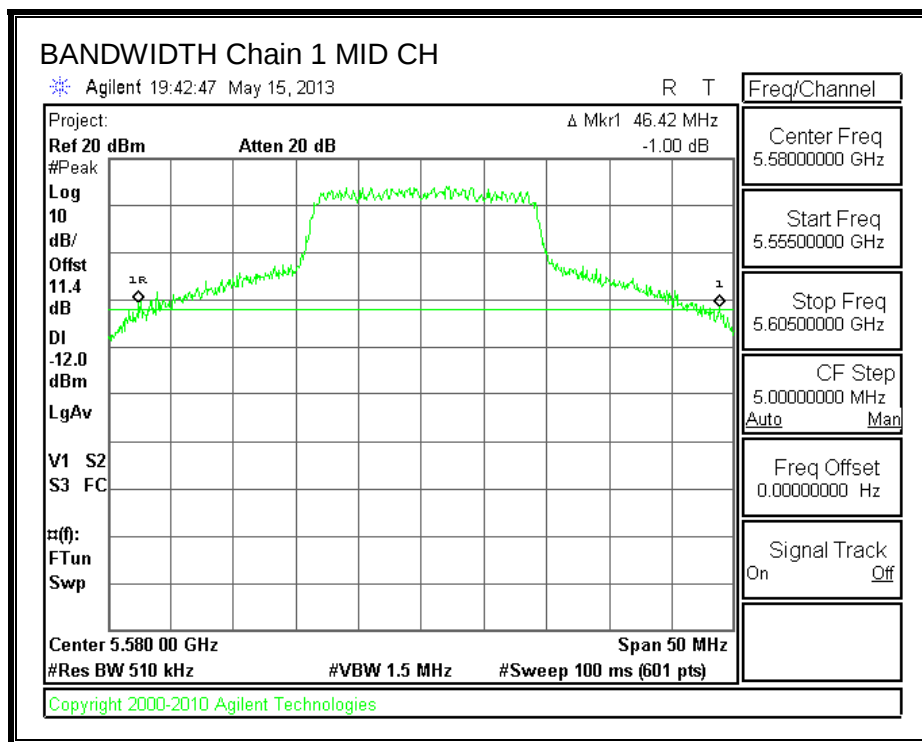




8.19.2. 99% BANDWIDTH

LIMITS

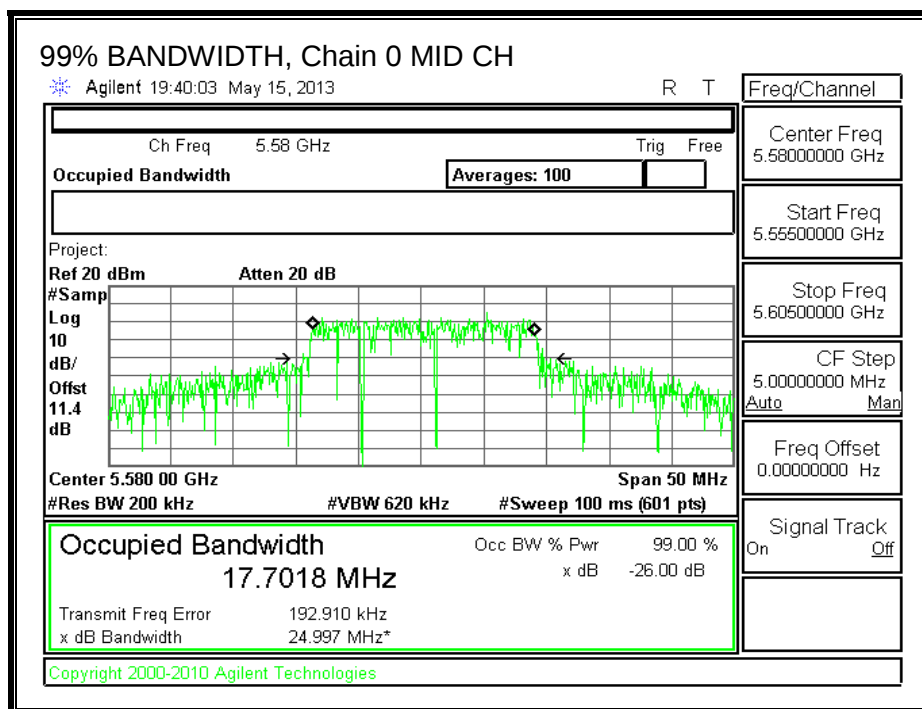
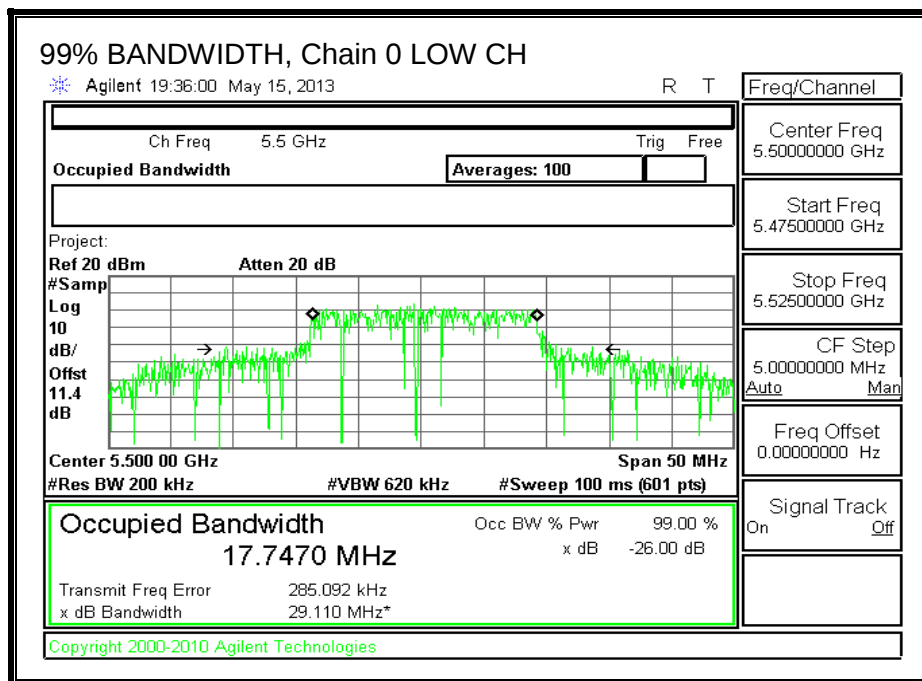
None; for reporting purposes only.

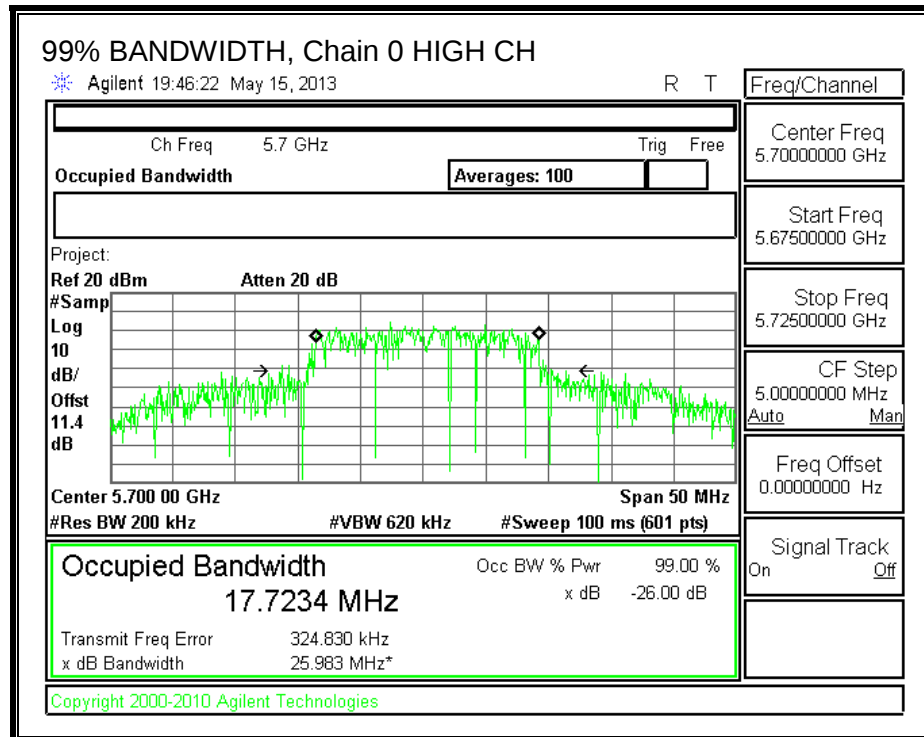
RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5500	17.7470	17.7544
Mid	5580	17.7018	19.6147
High	5700	17.7234	18.3883

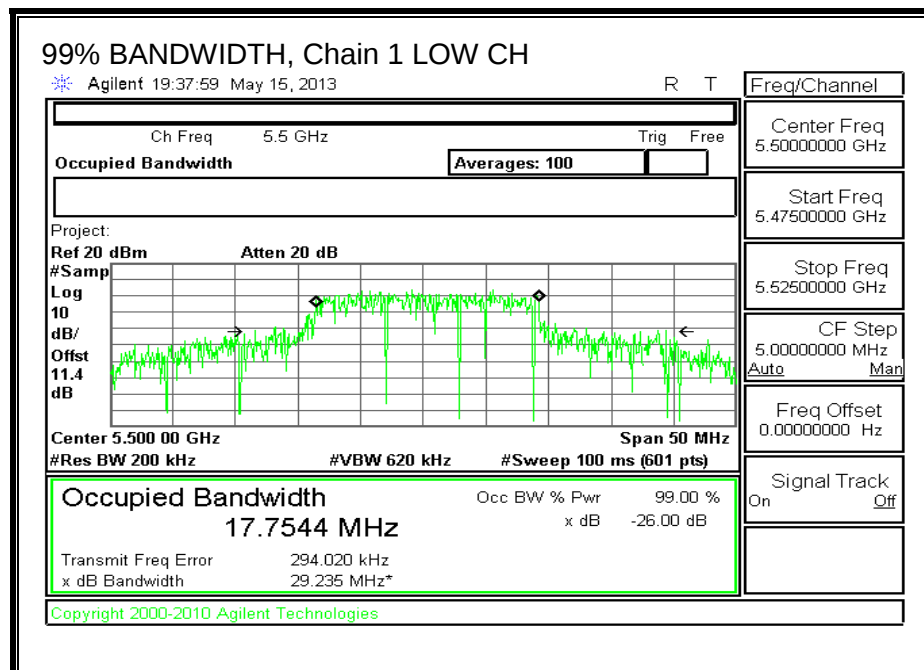
99% BANDWIDTH

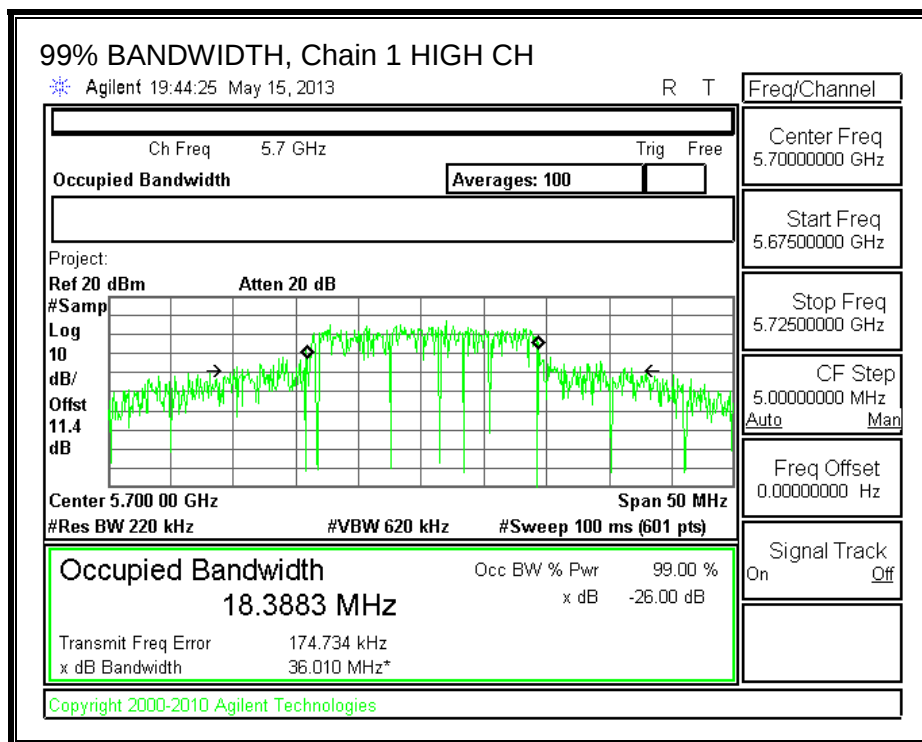
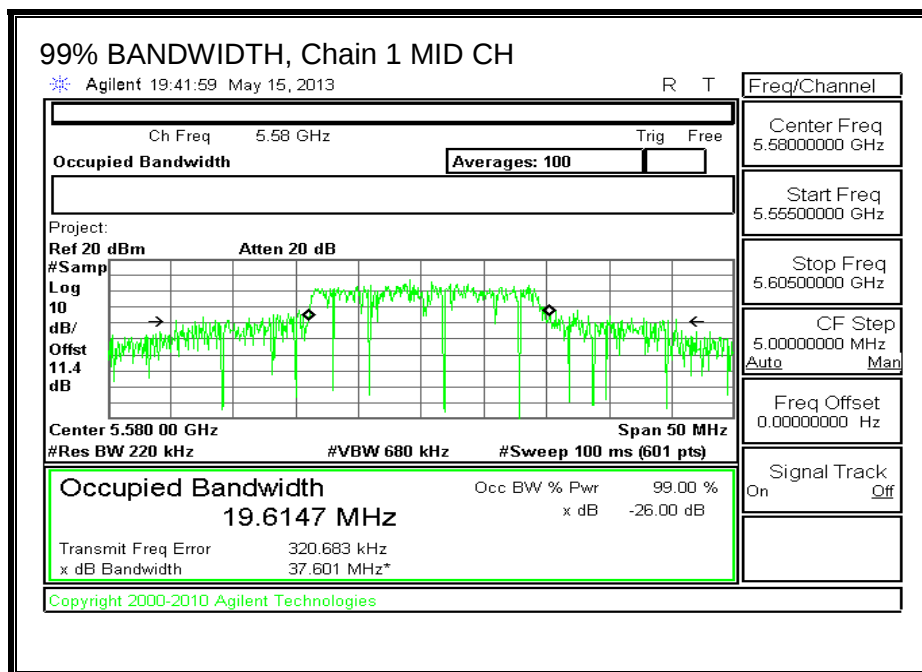
99% BANDWIDTH, Chain 0





99% BANDWIDTH, Chain 1





8.19.3. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.5–5.7 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain.

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5500	40.92	17.7470	6.60
Mid	5580	36.25	17.7018	6.60
High	5700	40.33	17.7234	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5500	23.40	23.49	29.49	22.89	10.40	11.00	10.40
Mid	5580	23.40	23.48	29.48	22.88	10.40	11.00	10.40
High	5700	23.40	23.49	29.49	22.89	10.40	11.00	10.40

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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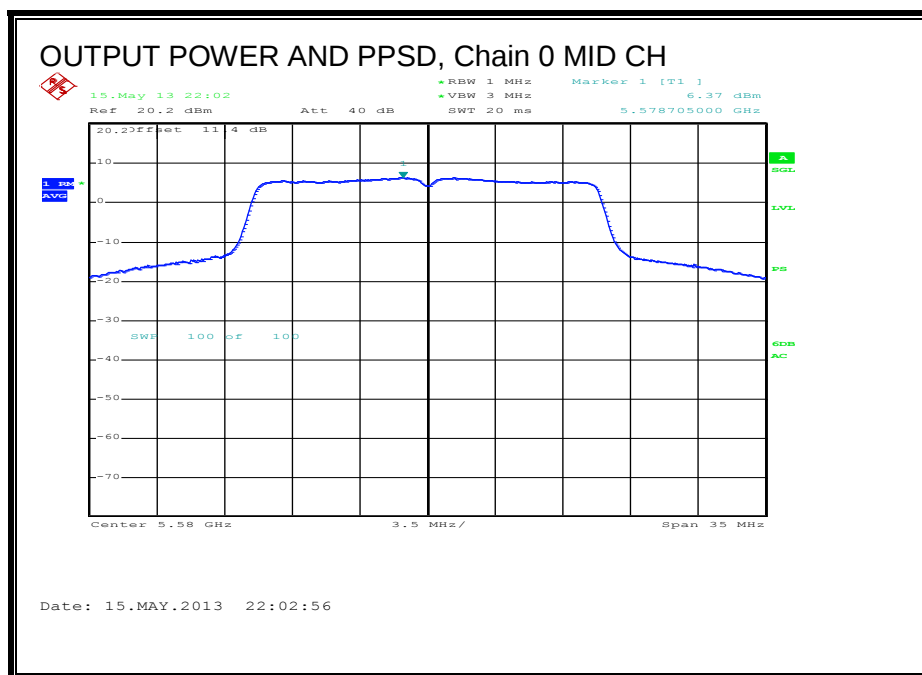
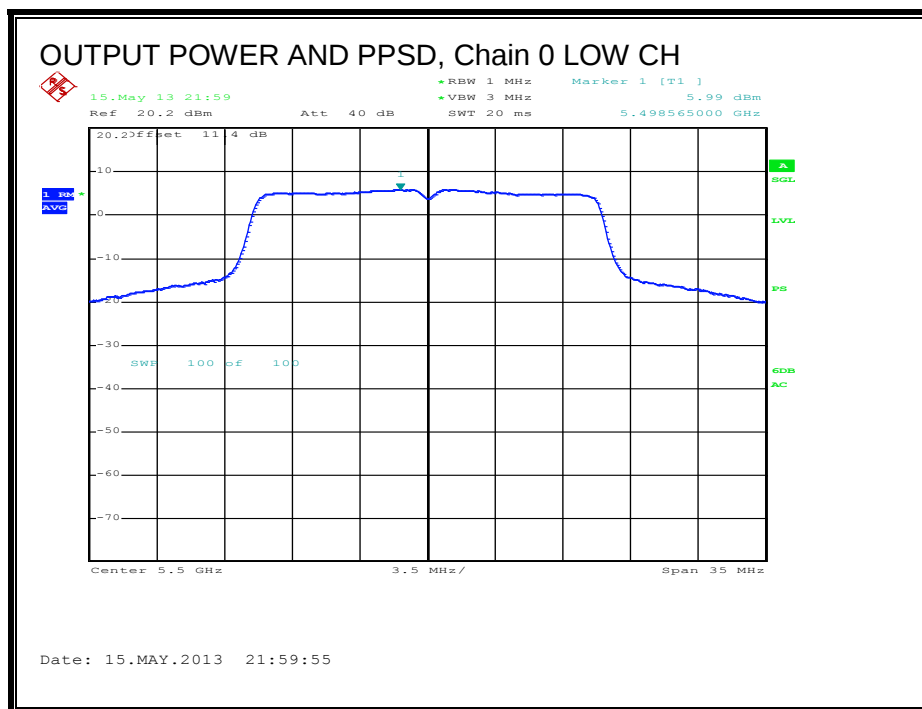
Output Power Results

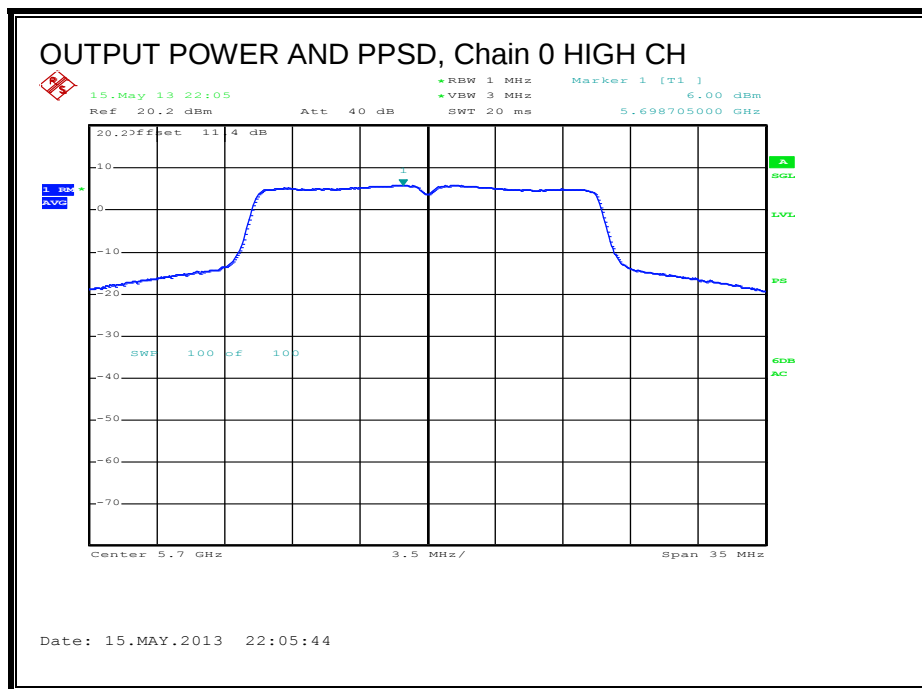
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	19.36	19.57	22.48	22.89	-0.41
Mid	5580	19.55	19.89	22.73	22.88	-0.15
High	5700	15.89	16.33	19.13	22.89	-3.76

PPSD Results

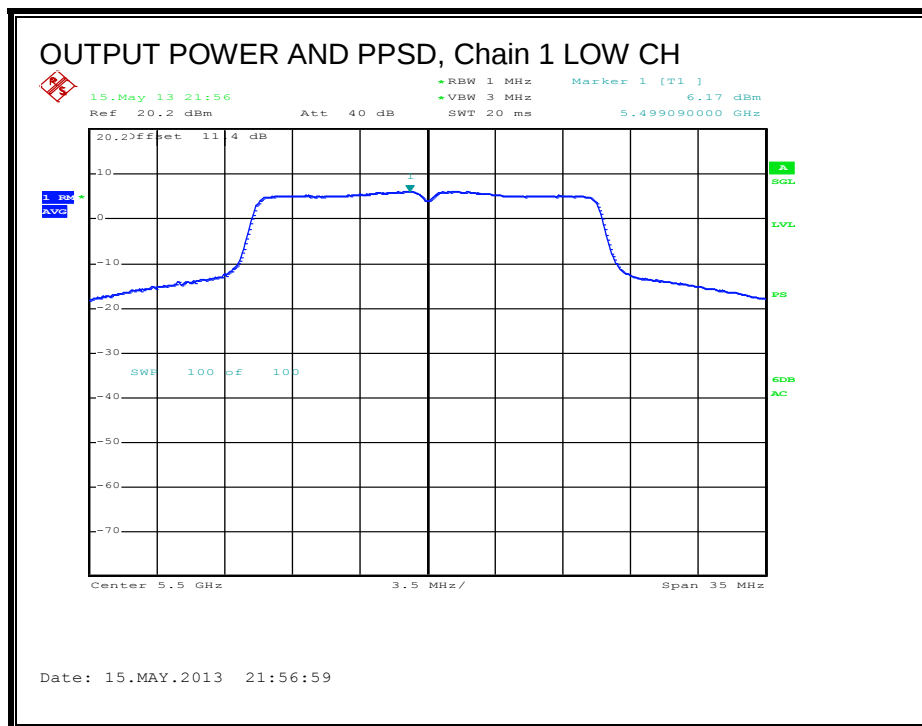
Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5500	5.99	6.17	9.09	10.40	-1.31
Mid	5580	6.37	6.73	9.56	10.40	-0.84
High	5700	6.00	6.06	9.04	10.40	-1.36

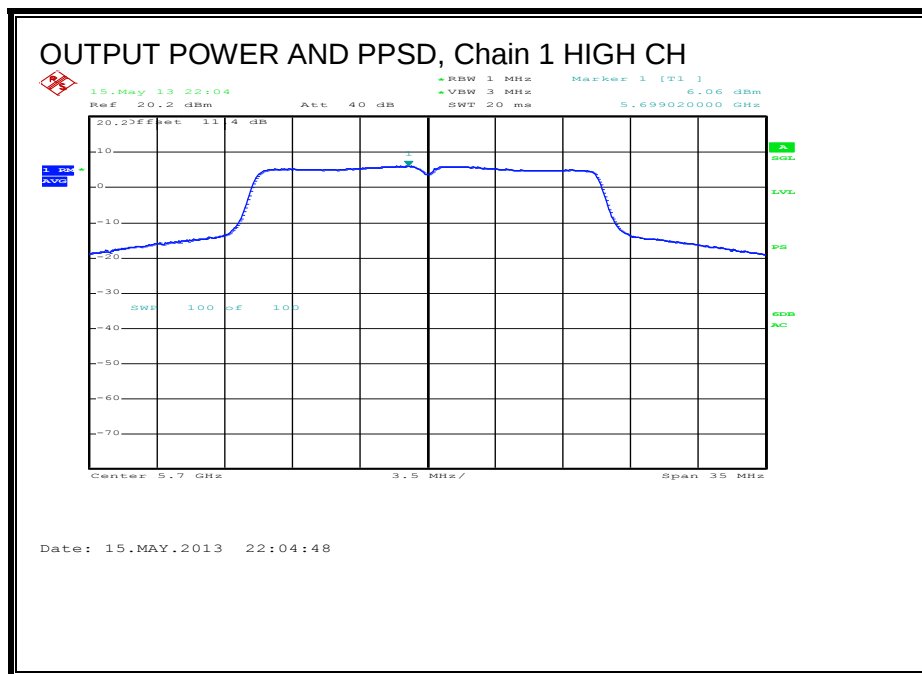
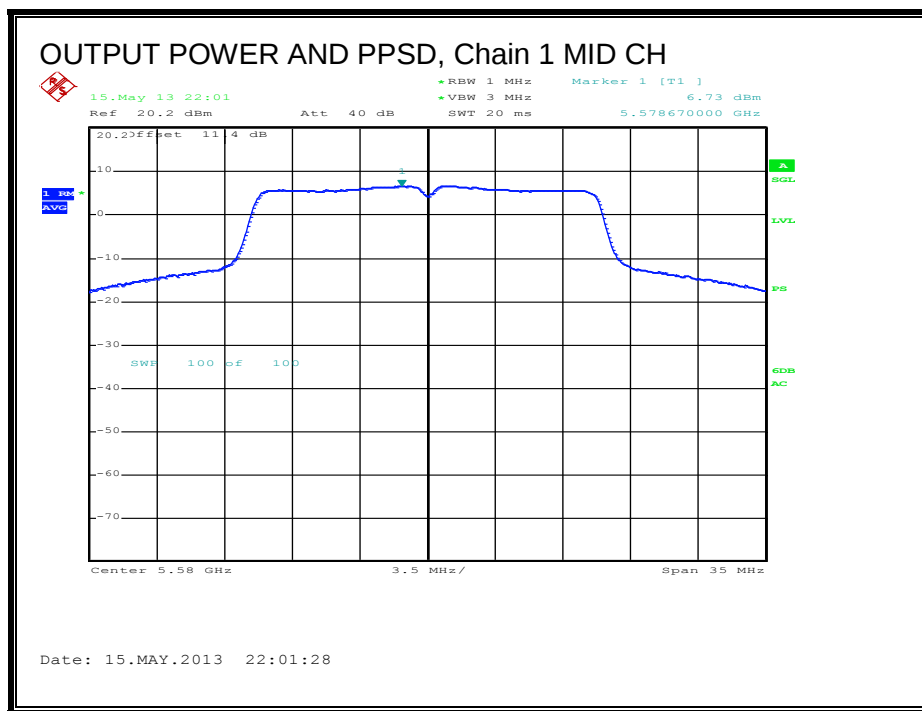
OUTPUT POWER AND PPSD, Chain 0





OUTPUT POWER AND PPSD, Chain 1





8.20. 802.11n HT20 STBC 2TX MODE CHANNEL 144 IN THE 5.6 GHz BAND

8.20.1.26 dB BANDWIDTH

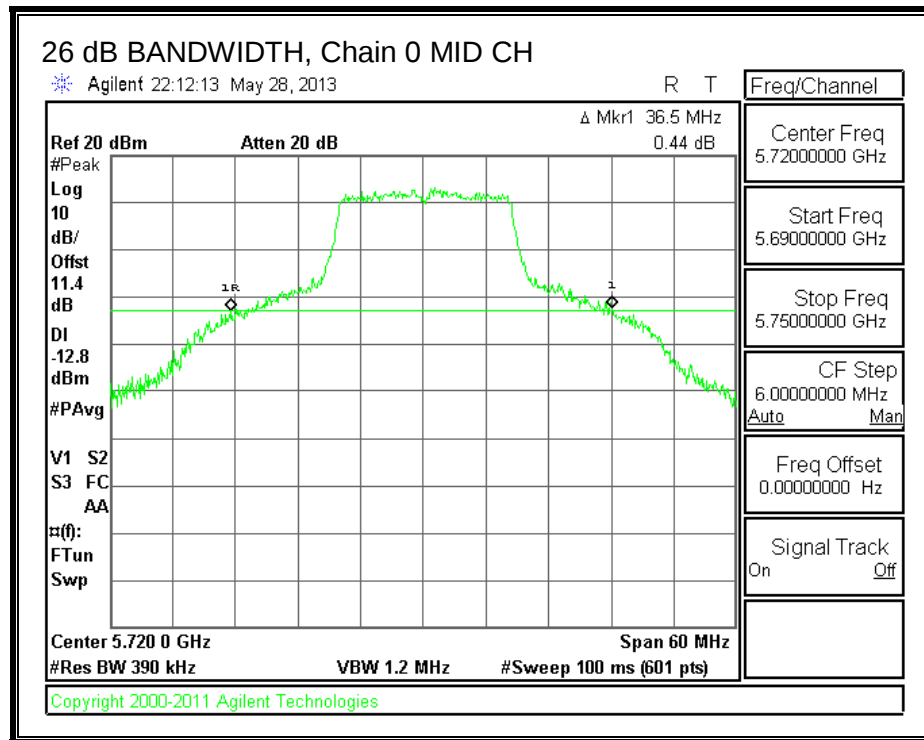
LIMITS

None; for reporting purposes only.

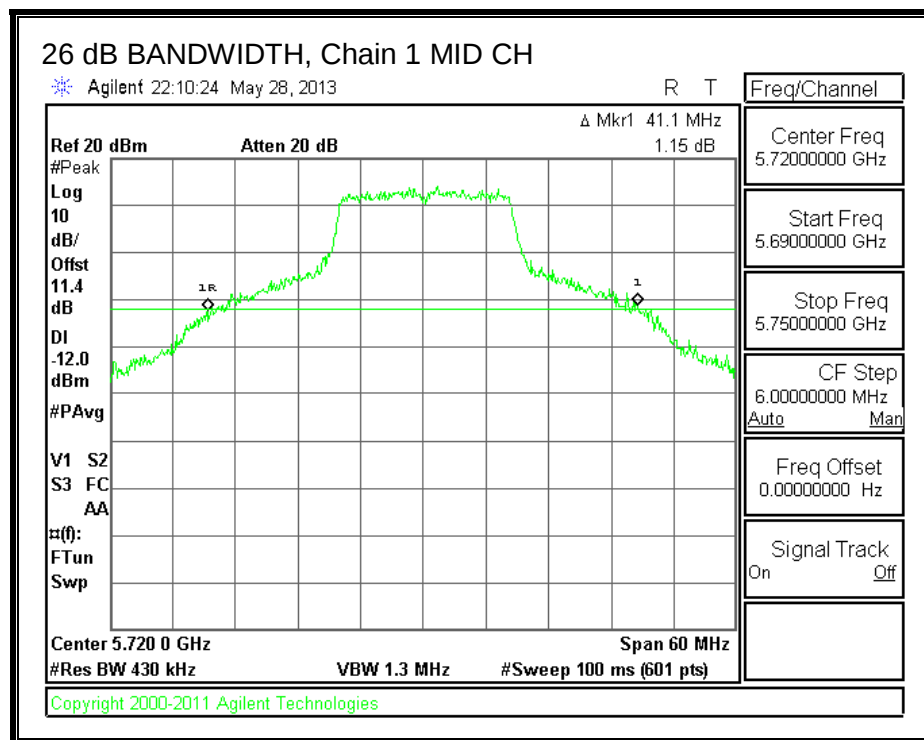
RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
High	5720	36.5000	41.1000

26 dB BANDWIDTH, Chain 0



26 dB BANDWIDTH, Chain 1



8.20.2.99% BANDWIDTH

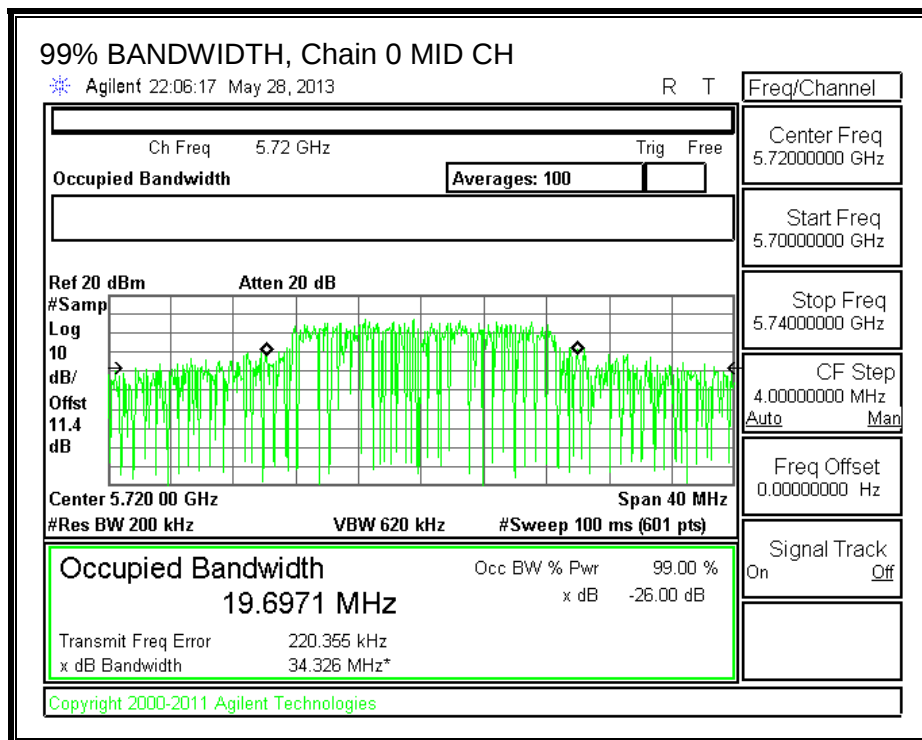
LIMITS

None; for reporting purposes only.

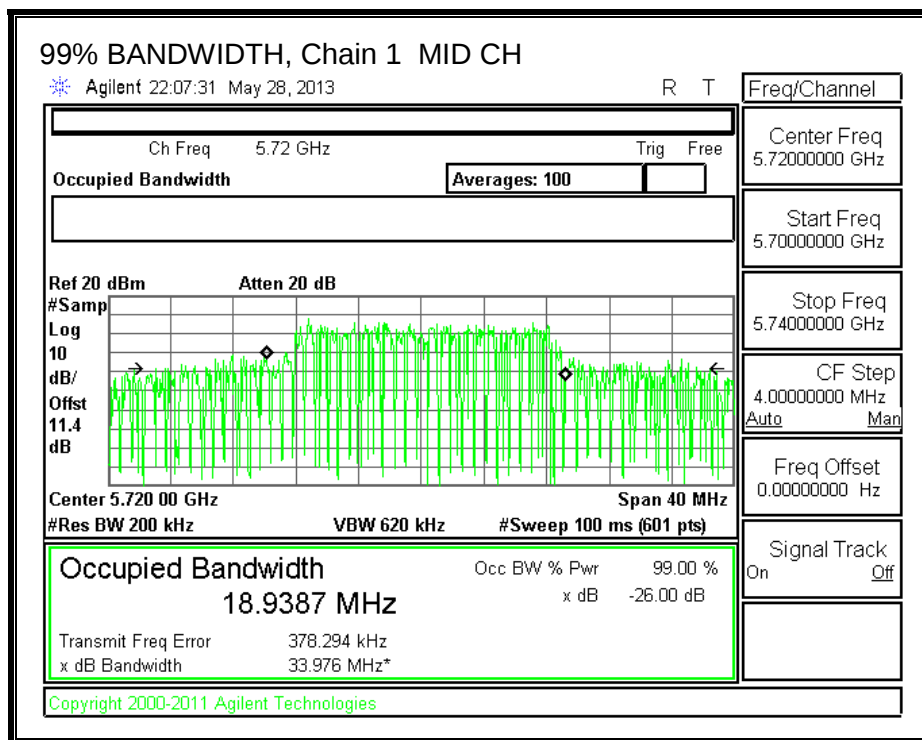
RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
High	5720	19.6971	18.9387

99% BANDWIDTH, Chain 0



99% BANDWIDTH, Chain 1



8.20.1. 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 11.4 dB (including 10 dB pad and 1.4 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Average Power Results

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
High	5720	20.21	20.03	23.13

8.20.2. OUTPUT POWER AND PSD

LIMITS

FCC §15.247

IC RSS-210 A8.4

For systems using digital modulation in the 902–928 MHz, 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.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
6.60	6.60	6.60

RESULTS

Limits (FCC), portion in UNII 2 ext band

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Uncorrelated Gain (dBi)
High	5720	23.250	14.4194	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5720	24.00	22.59	28.59	22.59	10.40	11.00	10.40

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5720	14.95	14.47	17.73	22.59	-4.86

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
High	5720	5.400	4.980	8.21	10.40	-2.19

Limits (FCC), portion in 5.8 GHz UNII-3 band

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Uncorrelated Gain (dBi)
High	5720	13.25	4.4194	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5720	22.22	17.45	23.45	17.45	10.40	11.00	10.40

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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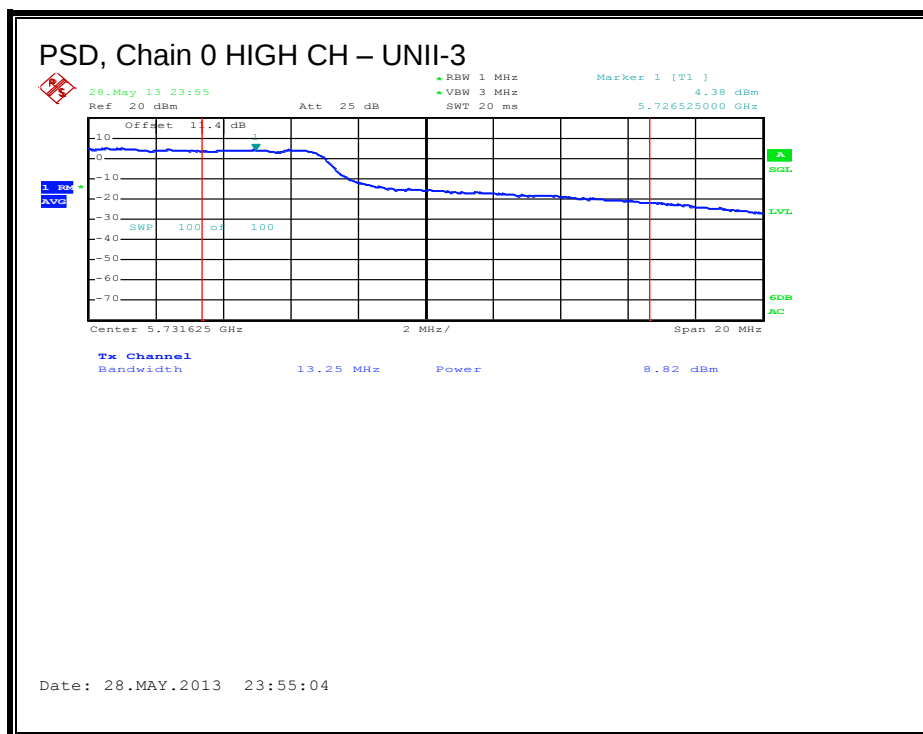
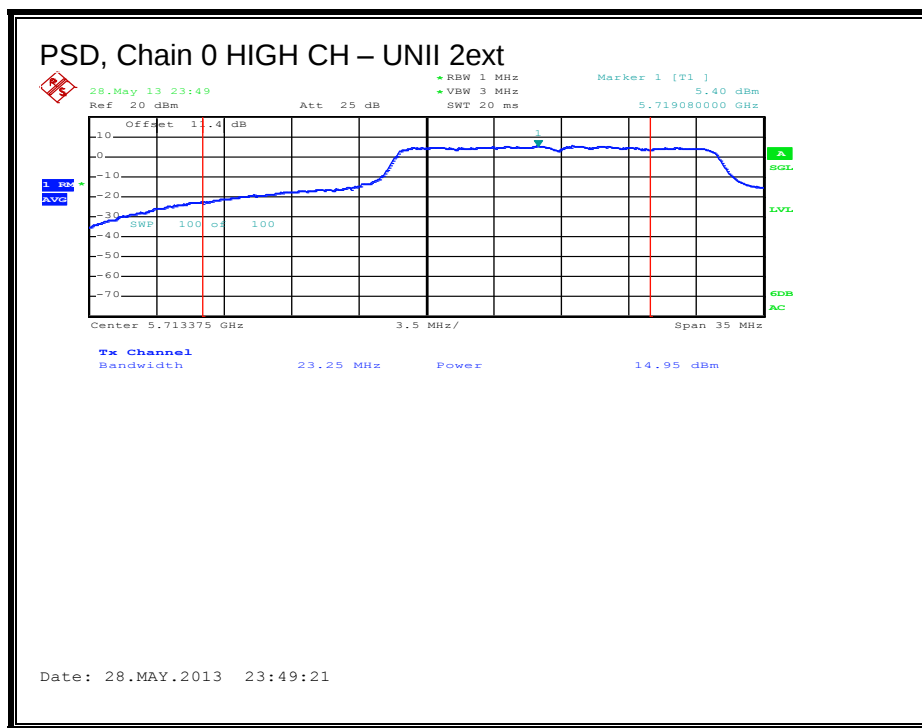
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5720	8.82	8.53	11.69	17.45	-5.77

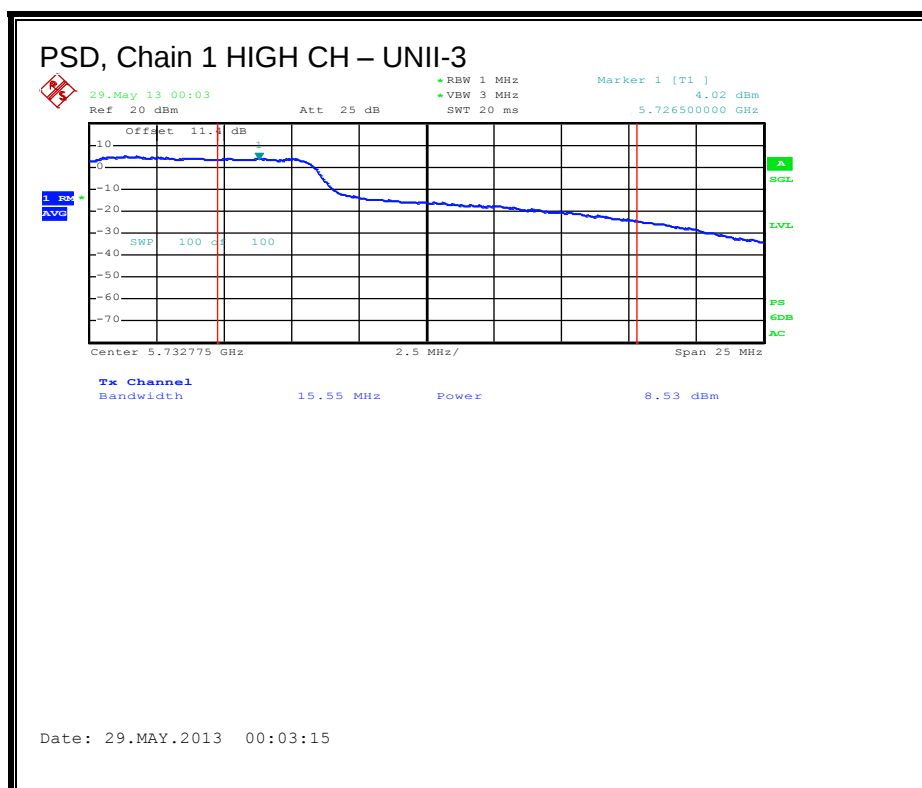
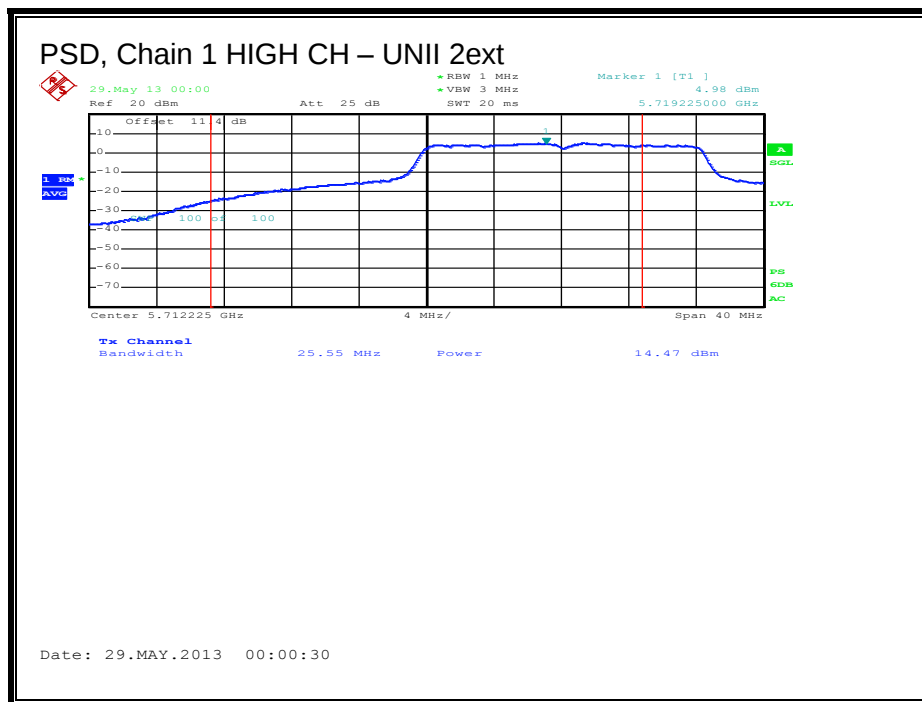
PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
High	5720	4.380	4.020	7.21	10.40	-3.19

PSD, Chain 0



PSD, Chain 1



8.21. 802.11n HT40 SISO MODE IN THE 5.6 GHz BAND

8.21.1. 26 dB BANDWIDTH

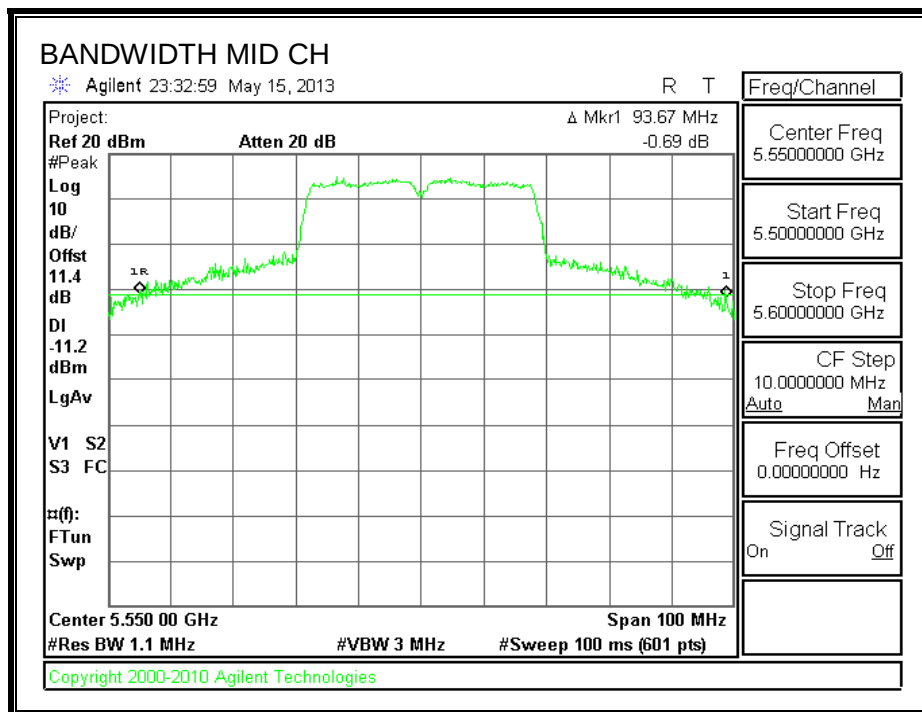
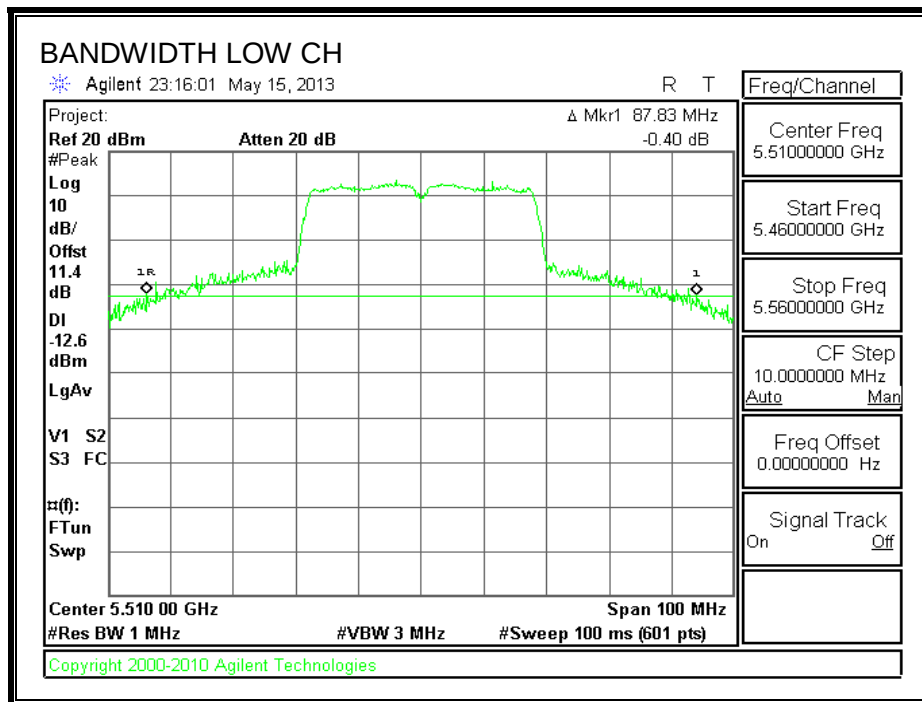
LIMITS

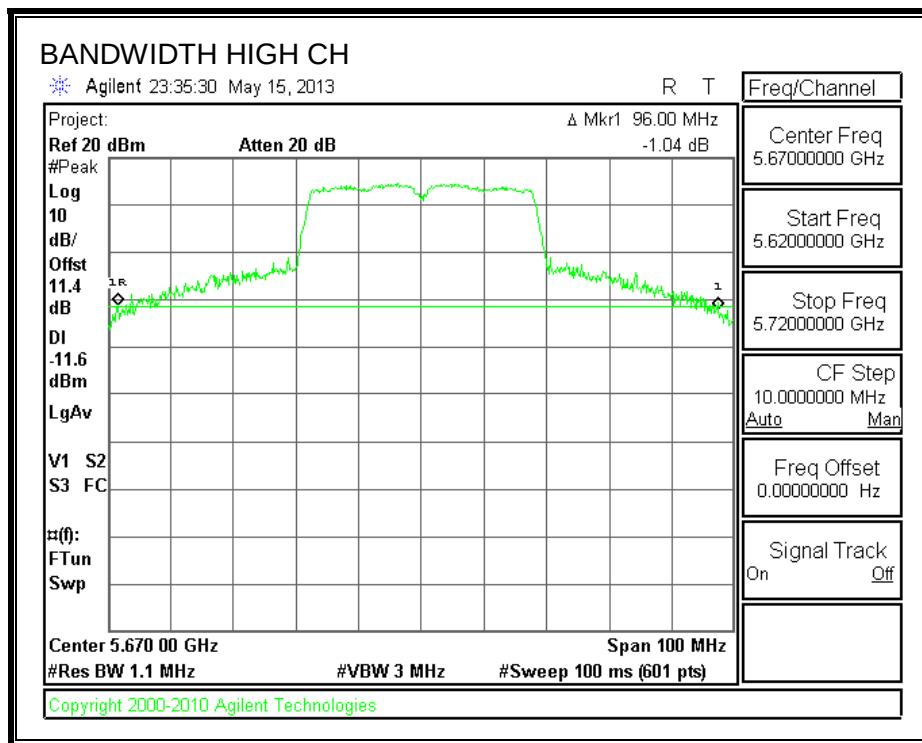
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5510	87.83
Mid	5550	93.67
High	5670	96.00

26 dB BANDWIDTH





8.21.2. 99% BANDWIDTH

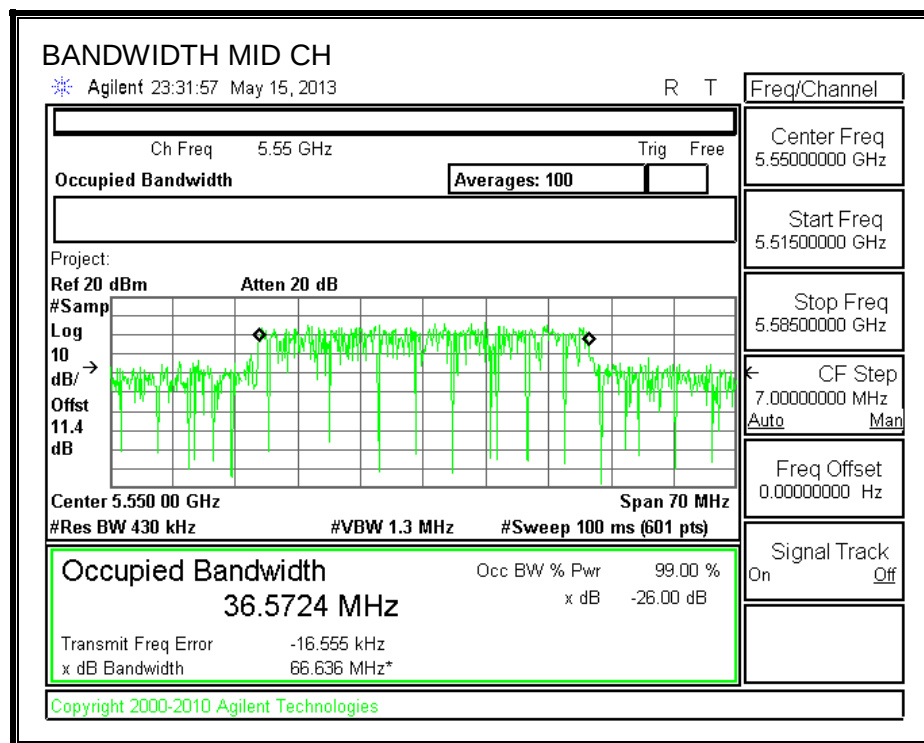
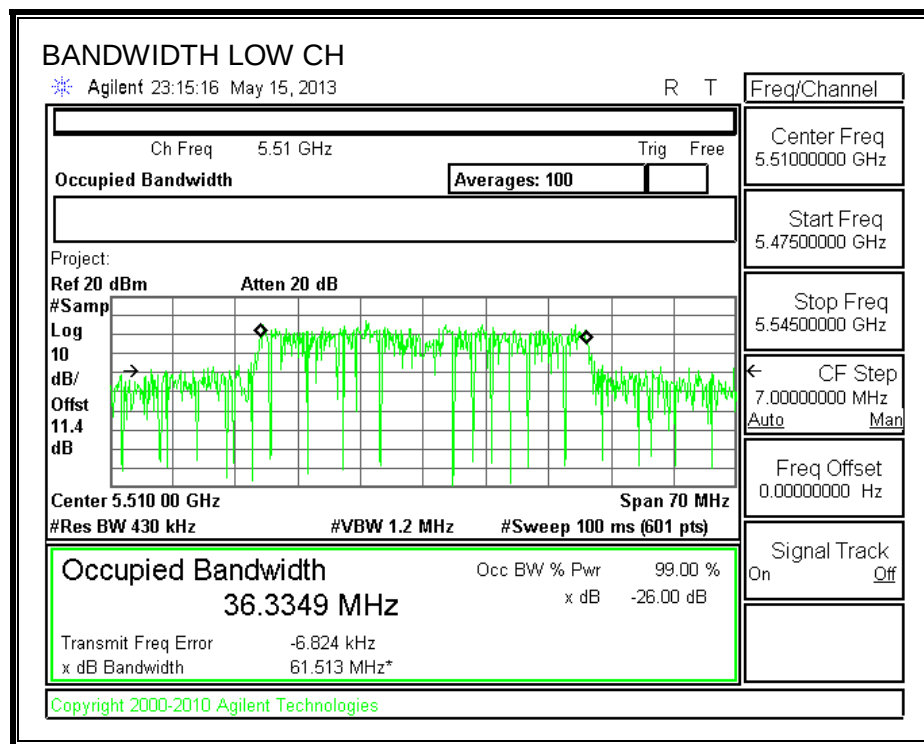
LIMITS

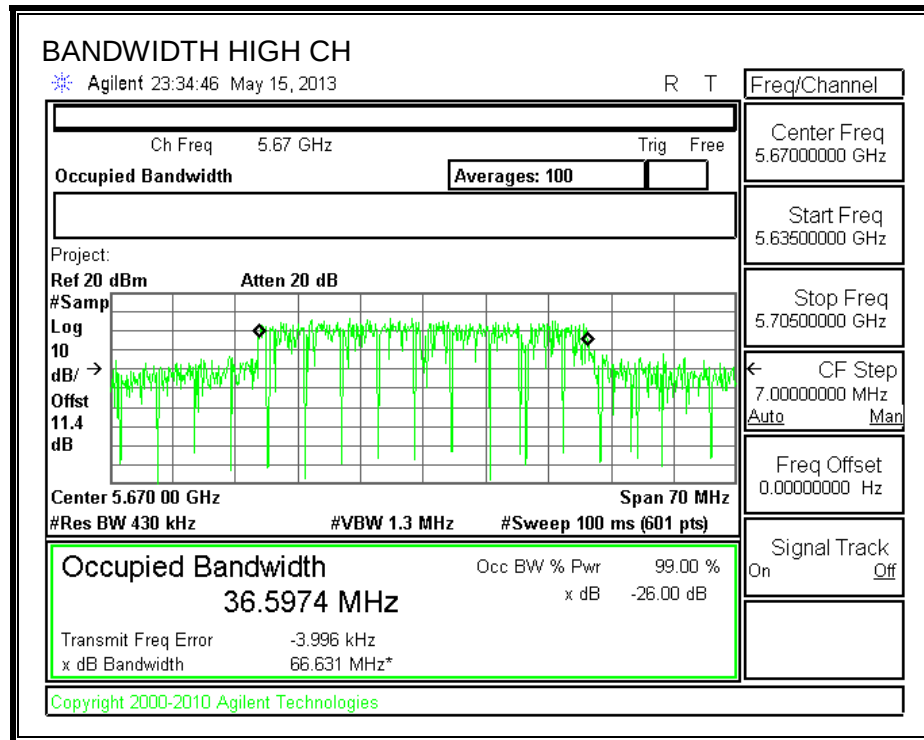
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5510	36.3349
Mid	5550	36.5724
High	5670	36.5974

99% BANDWIDTH





8.21.3. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.5–5.7 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5510	87.83	36.3349	6.60
Mid	5550	93.67	36.5724	6.60
High	5670	96.00	36.5974	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5510	23.40	24.00	30.00	23.40	10.40	11.00	10.40
Mid	5550	23.40	24.00	30.00	23.40	10.40	11.00	10.40
High	5670	23.40	24.00	30.00	23.40	10.40	11.00	10.40

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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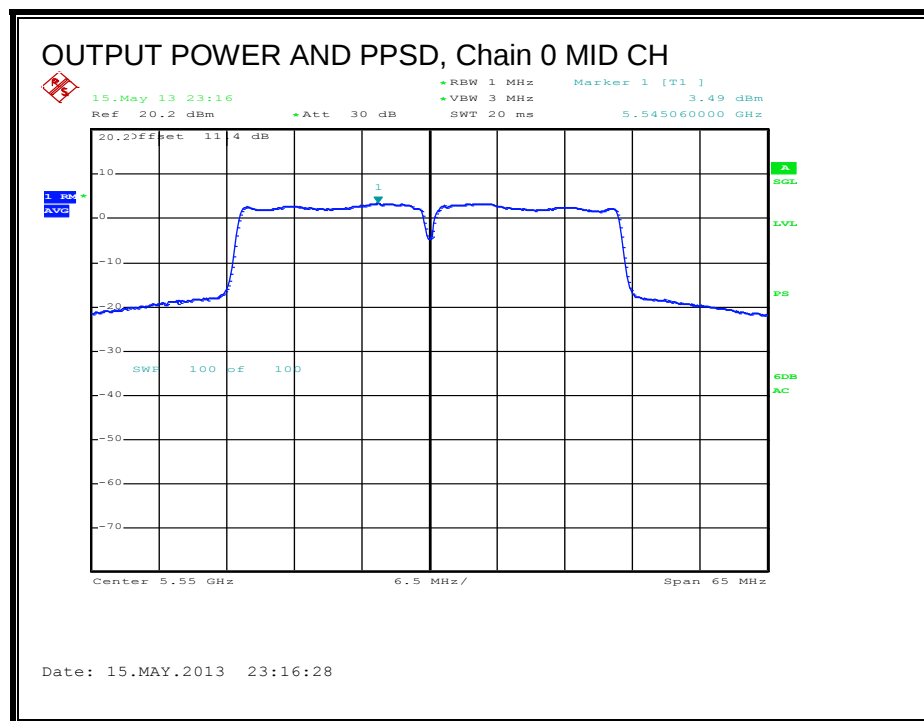
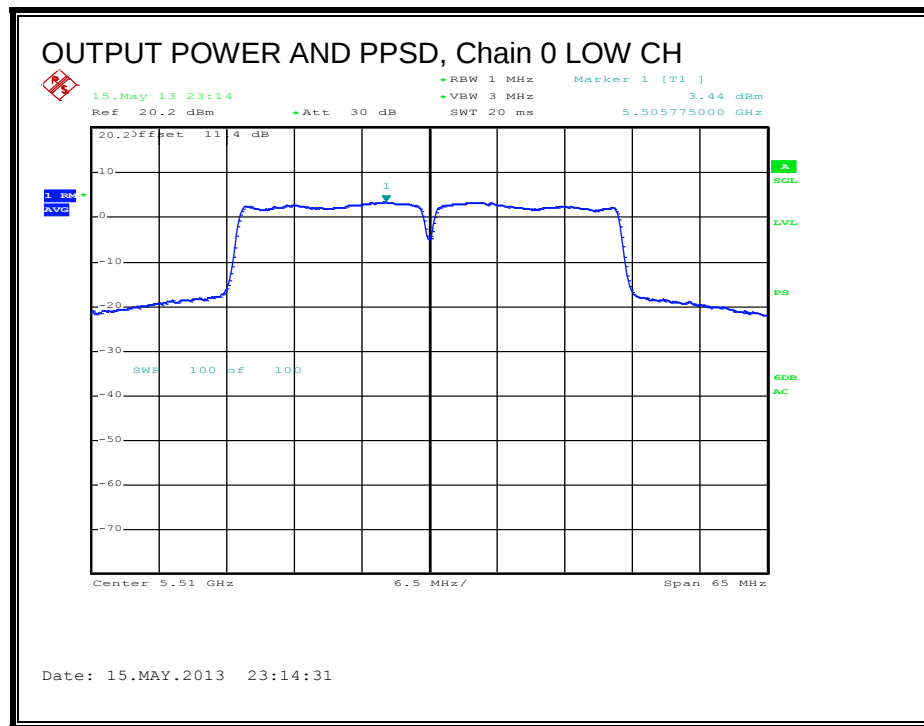
Output Power Results

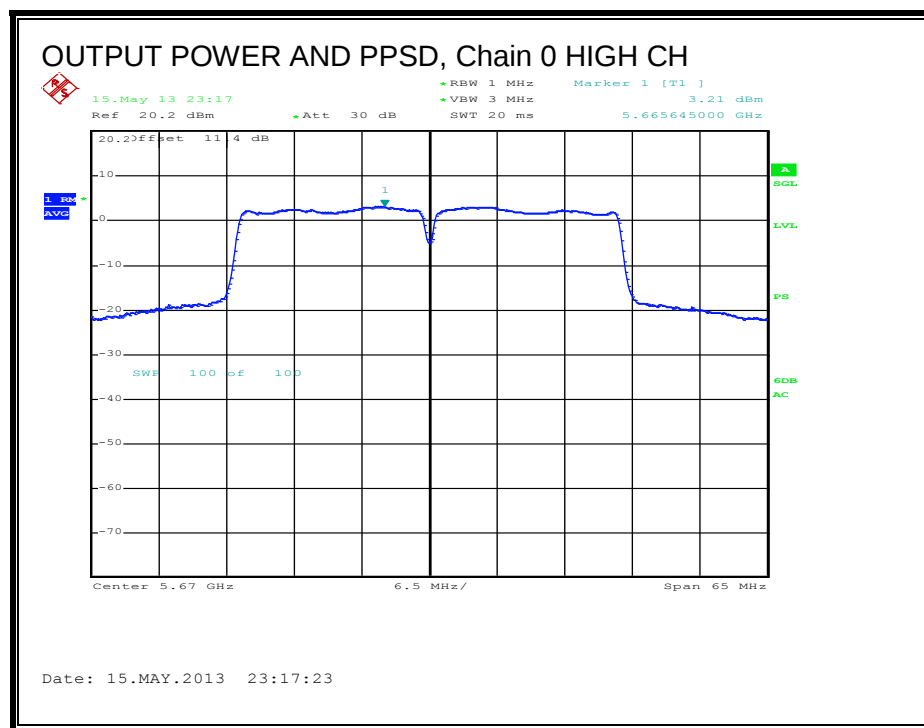
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	15.07	15.07	23.40	-8.33
Mid	5550	20.11	20.11	23.40	-3.29
High	5670	17.34	17.34	23.40	-6.06

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5510	3.44	3.44	10.40	-6.96
Mid	5550	3.49	3.49	10.40	-6.91
High	5670	3.21	3.21	10.40	-7.19

OUTPUT POWER AND PPSD, Chain 0





8.21.4. PEAK EXCURSION

LIMITS

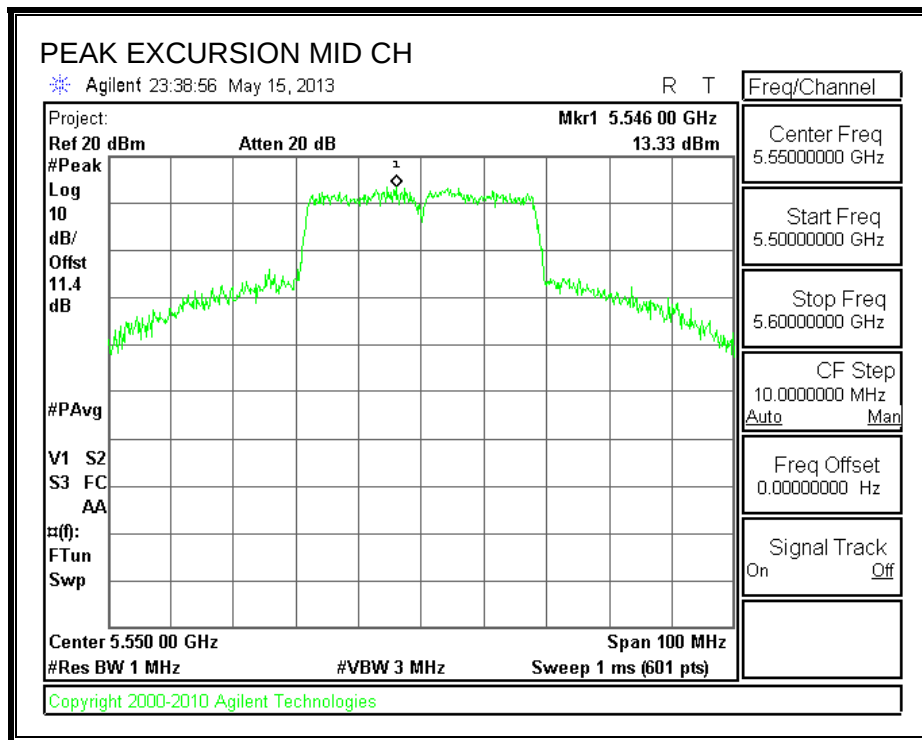
FCC §15.407 (a) (6)

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS

Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5550	13.33	3.49	0.00	9.84	13	-3.16

PEAK EXCURSION



8.22. 802.11n HT40 SISO CHANNEL 142 MODE IN THE 5.6 GHz BAND

8.22.1. 26 dB BANDWIDTH

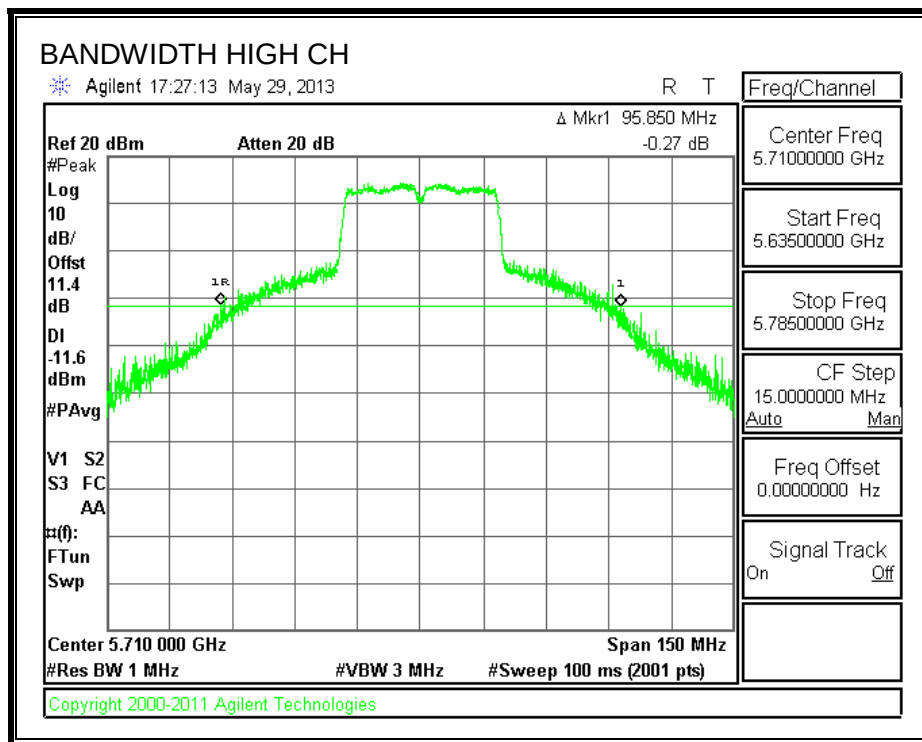
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
High	5710	95.850

26 dB BANDWIDTH



8.22.2. 99% BANDWIDTH

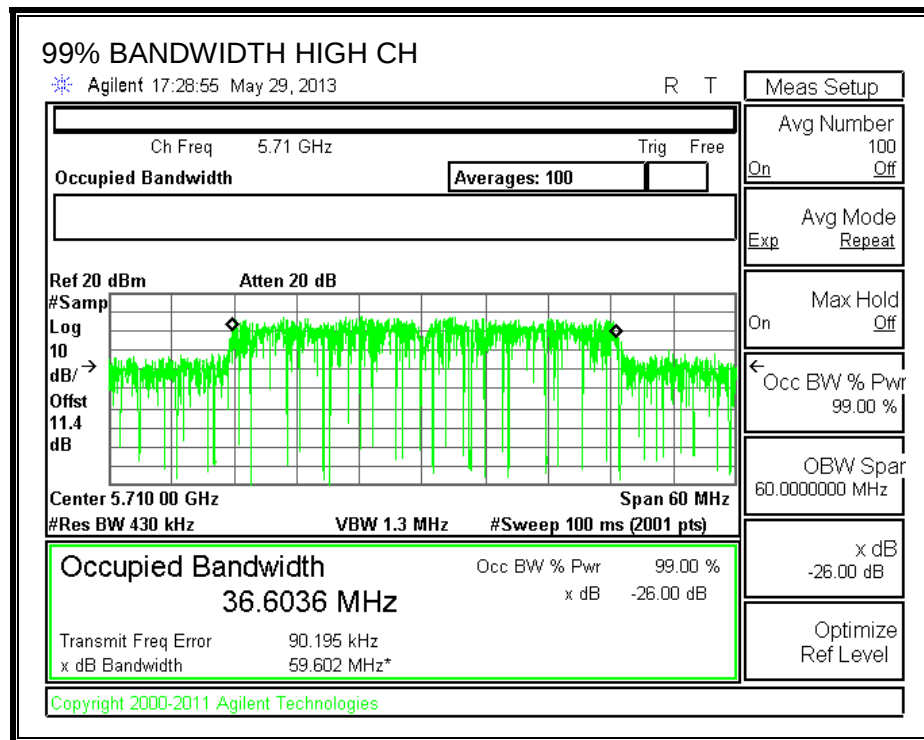
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
High	5710	36.6036

99% BANDWIDTH



8.22.3. 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 11.4 dB (including 10 dB pad and 1.4 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
High	5710	20.12

8.22.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.5–5.7 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Limits (FCC), portion in UNII 2 ext band

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
High	5710	62.9	33.3018	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5710	24.00	24.00	30.00	24.00	10.40	11.00	10.40

Duty Cycle CF (dB)	0.00	Included in Calculations of Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5710	16.47	16.47	24.00	-7.53

PPSD Results

Channel	Frequency (MHz)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
High	5710	2.840	2.84	10.40	-7.56

Limits (FCC), portion in 5.8 GHz UNII-3 band

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
High	5710	32.93	3.3018	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5710	24.00	16.19	22.19	16.19	10.40	11.00	10.40

Duty Cycle CF (dB)	0.00	Included in Calculations of Power & PSD
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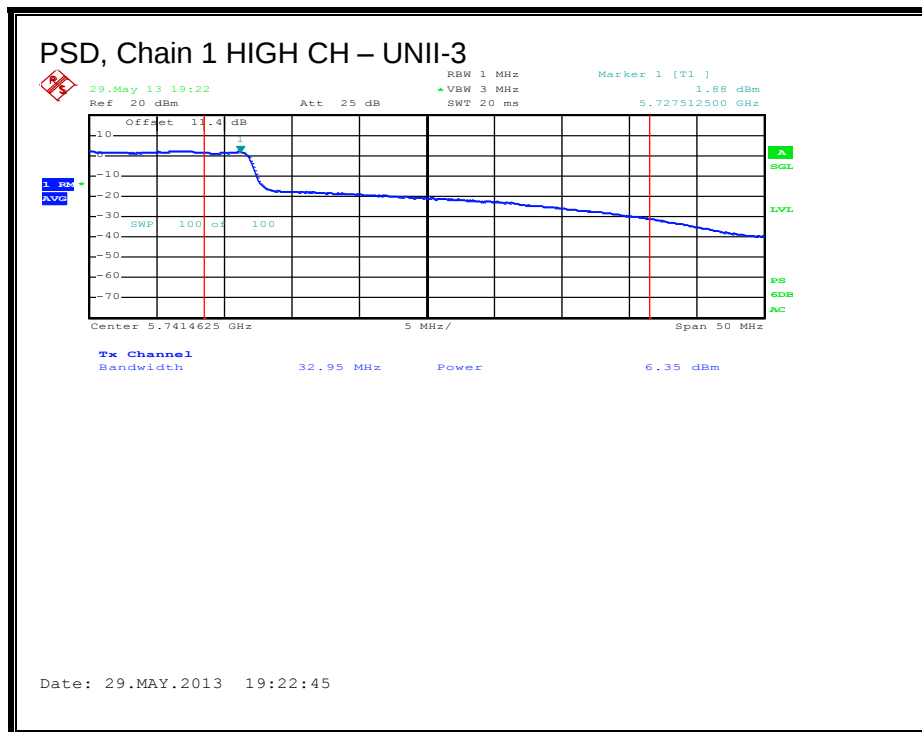
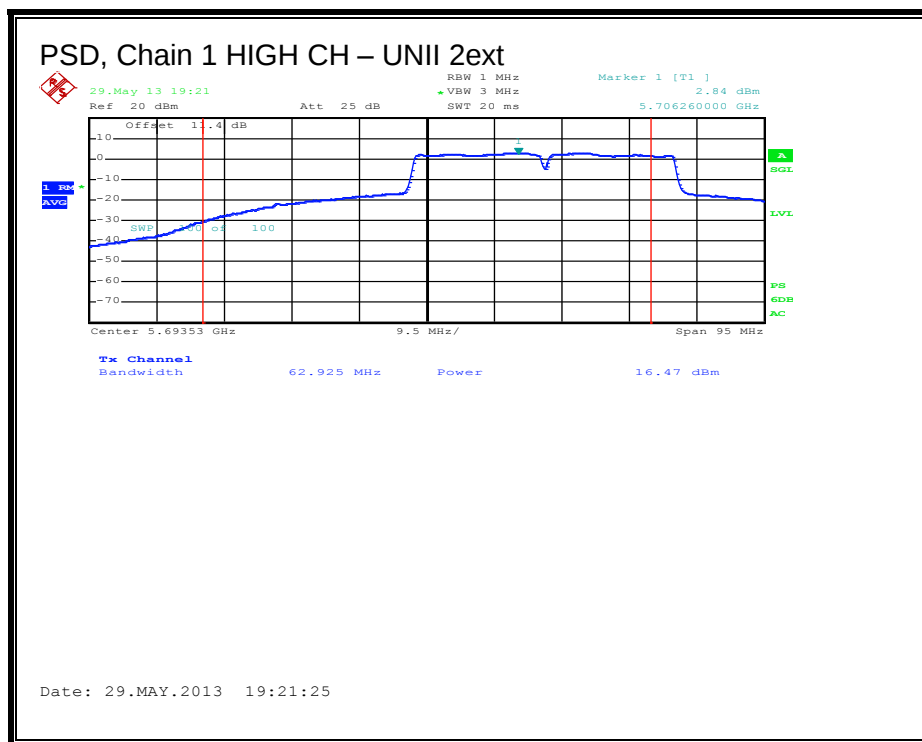
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5710	6.35	6.35	16.19	-9.84

PPSD Results

Channel	Frequency (MHz)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
High	5710	1.880	1.88	10.40	-8.52

PSD, Chain 1



8.23. 802. 11n HT40 CDD 2TX MODE IN THE 5.6 GHz BAND

8.23.1. 26 dB BANDWIDTH

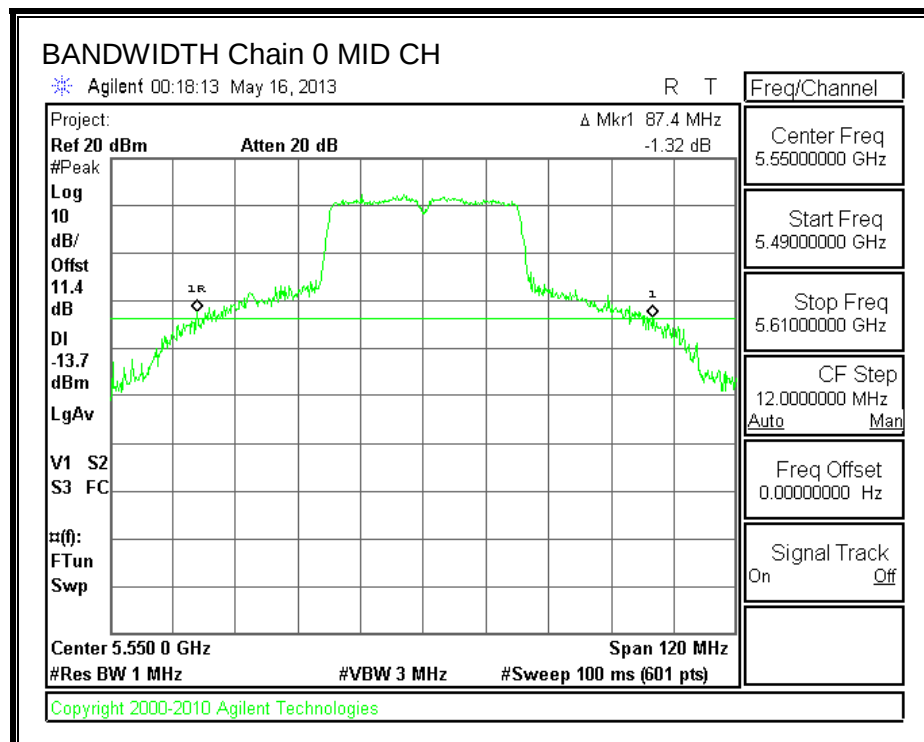
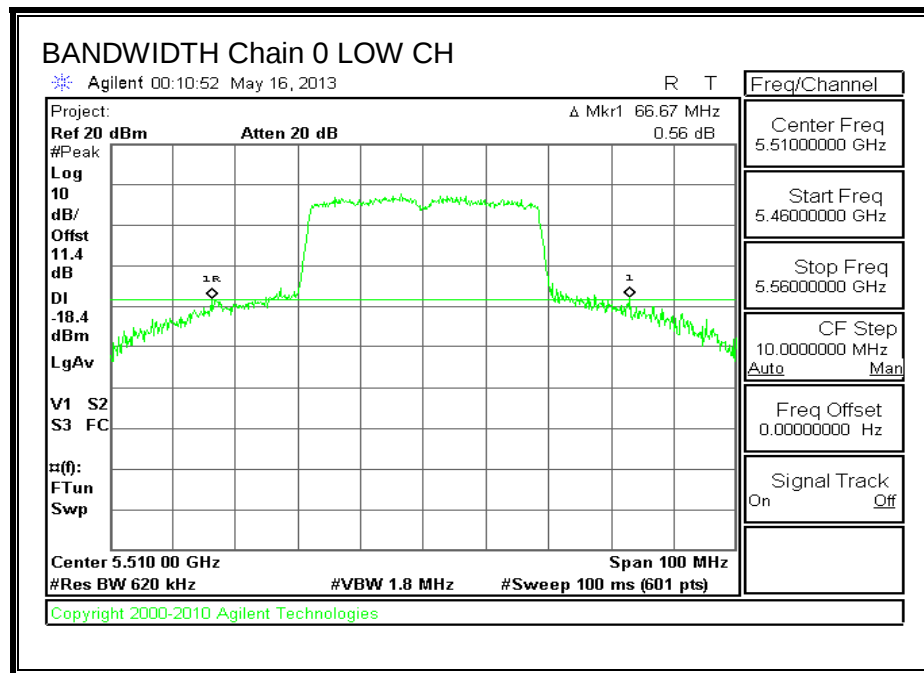
LIMITS

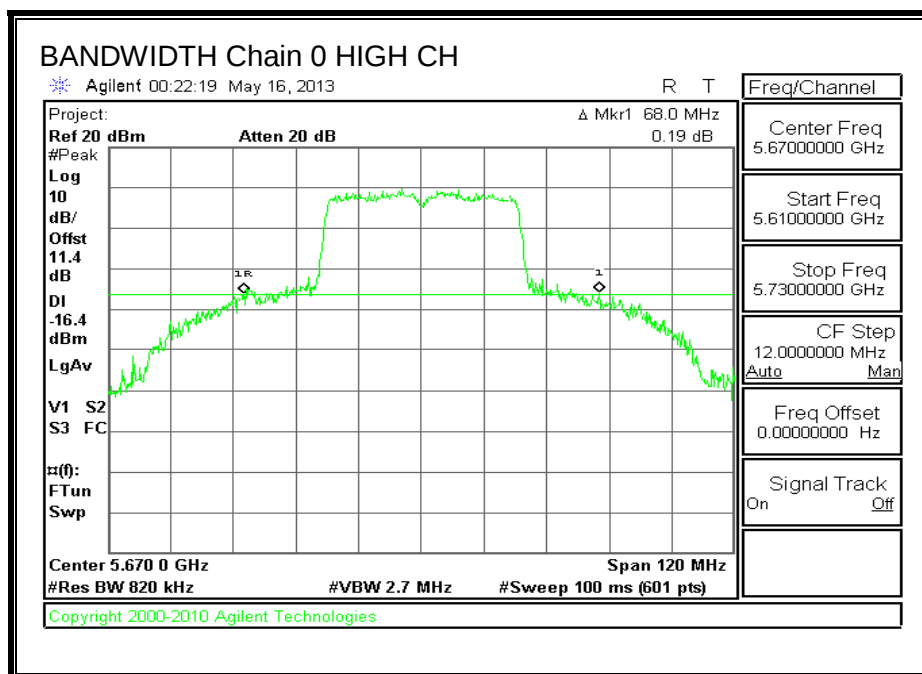
None; for reporting purposes only.

RESULTS

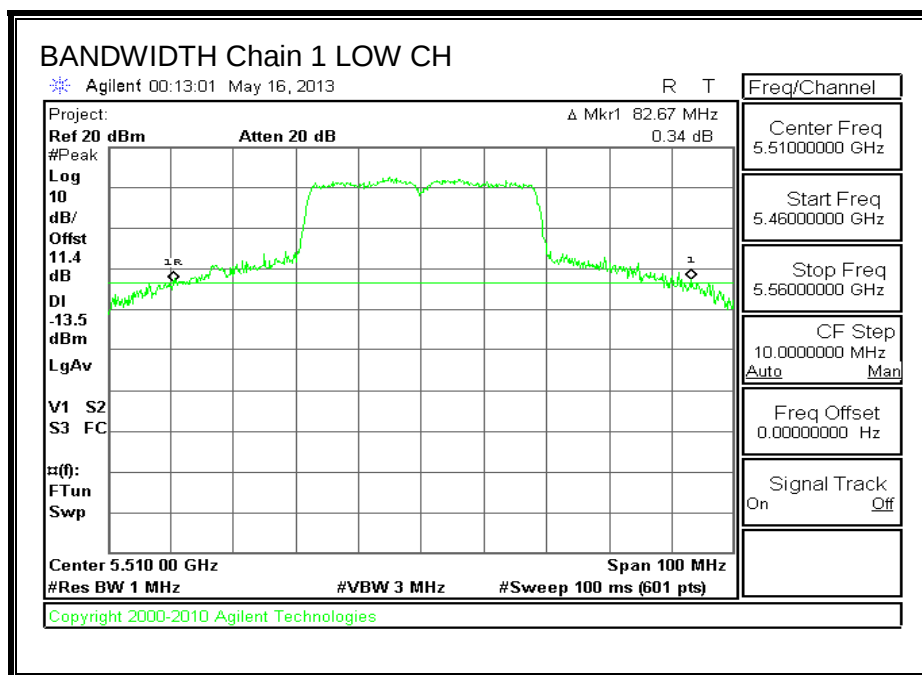
Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5510	66.67	82.67
Mid	5550	87.40	95.83
High	5670	68.00	82.60

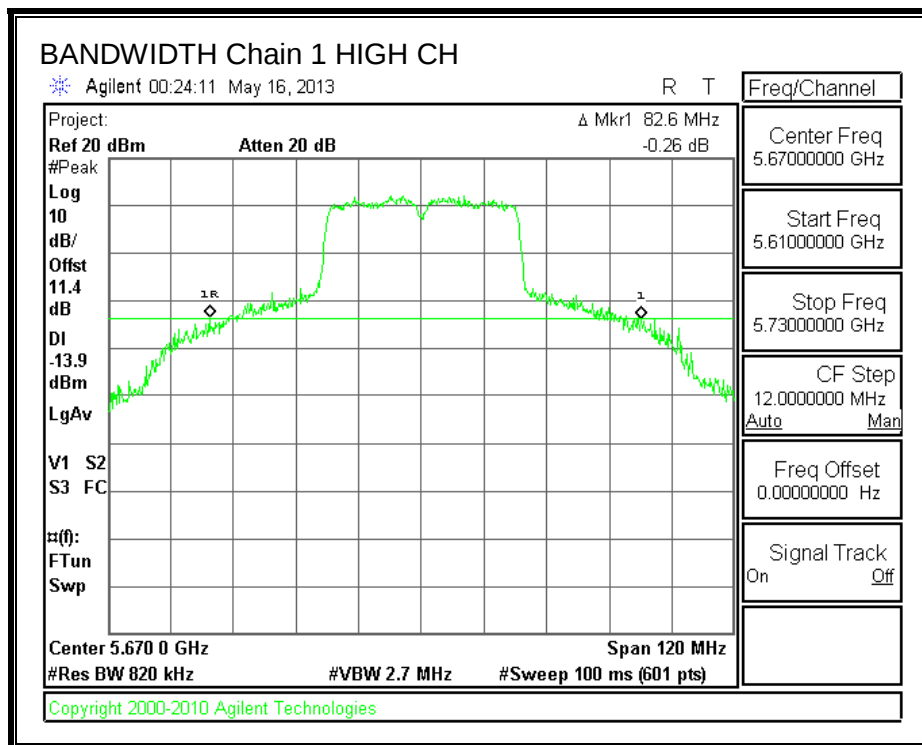
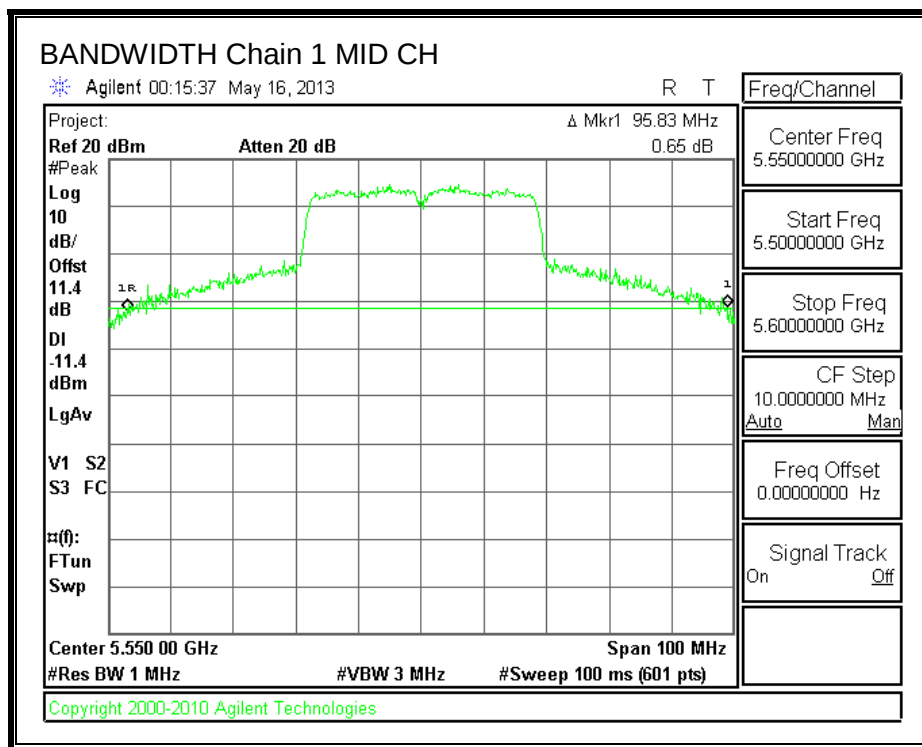
26 dB BANDWIDTH, Chain 0





26 dB BANDWIDTH, Chain 1





8.23.2. 99% BANDWIDTH

LIMITS

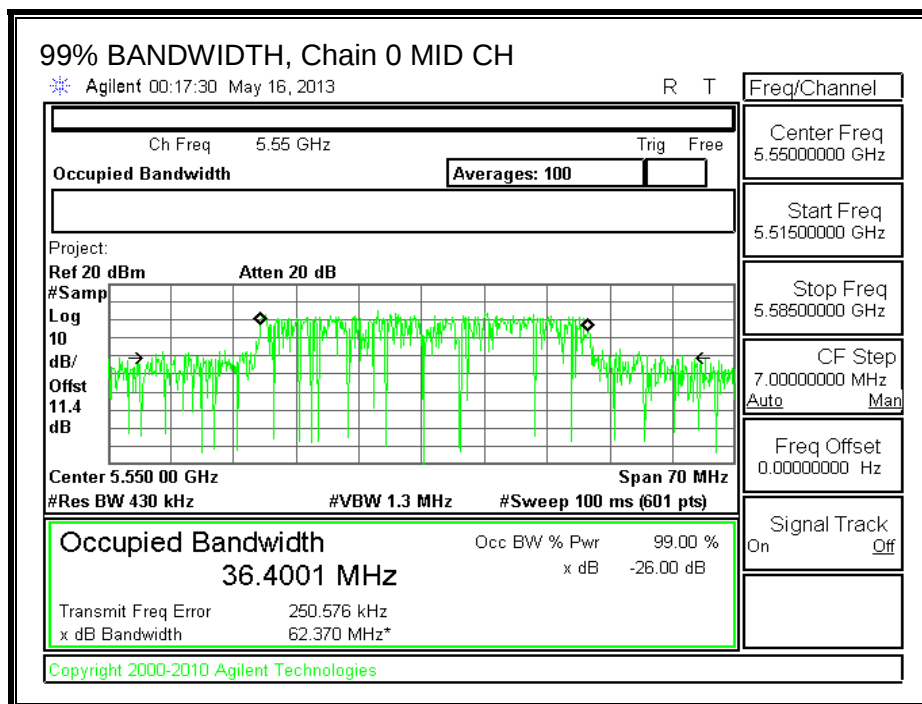
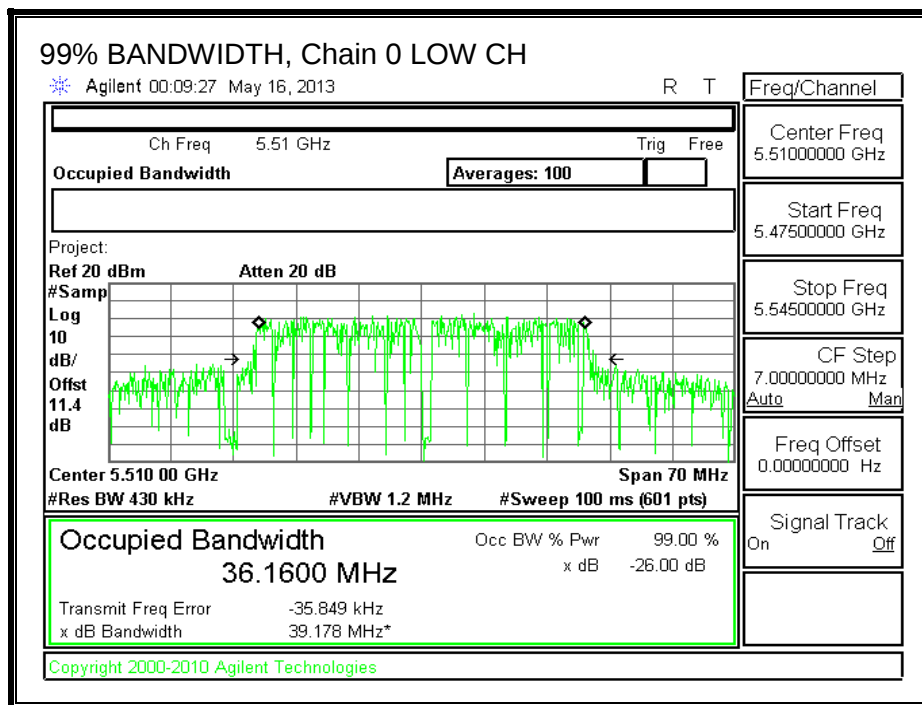
None; for reporting purposes only.

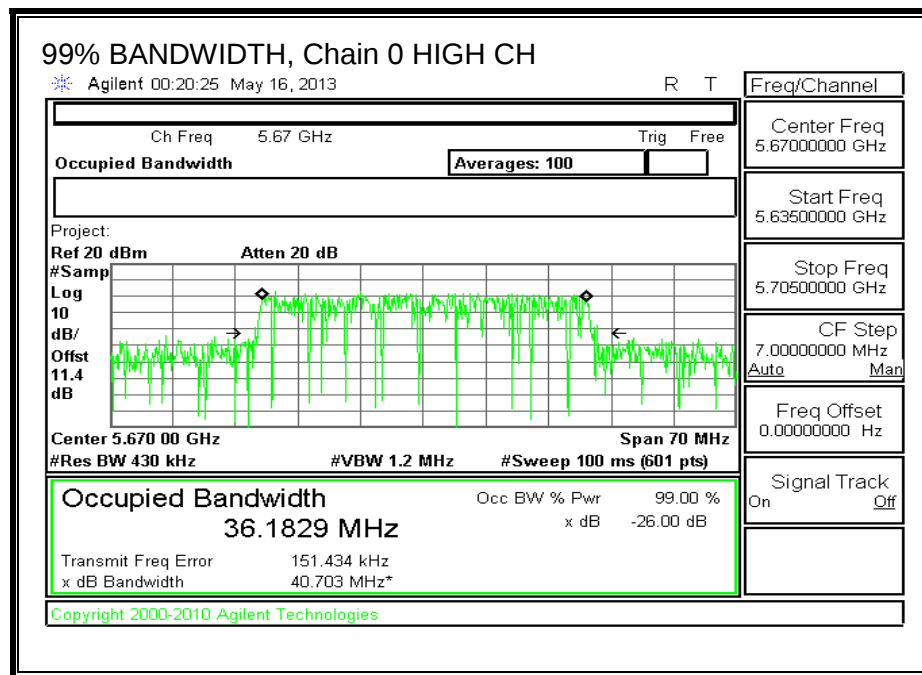
RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5510	36.1600	36.3437
Mid	5550	36.4001	42.0632
High	5670	36.1829	36.3321

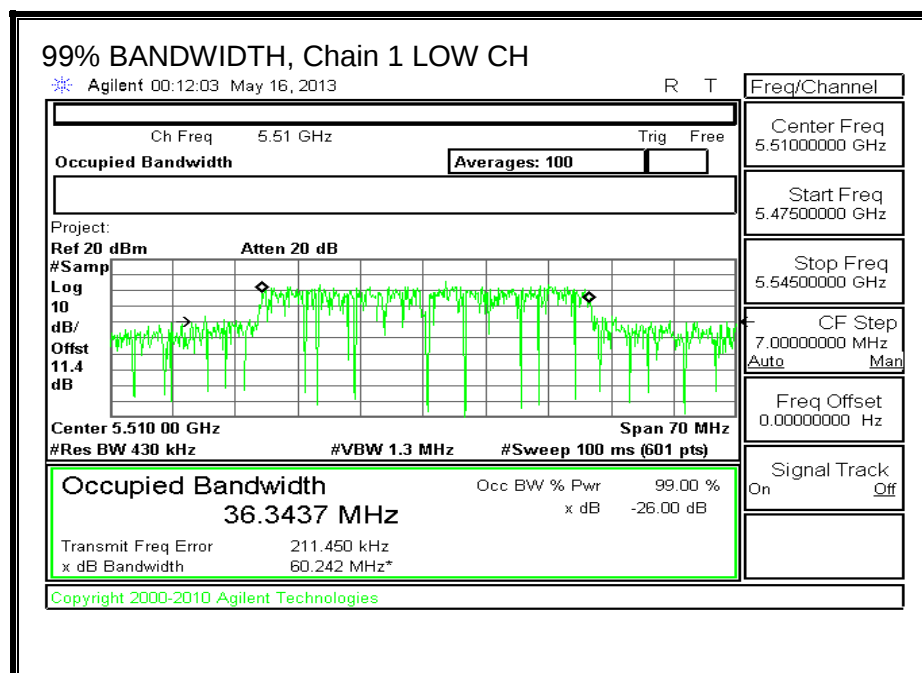
99% BANDWIDTH

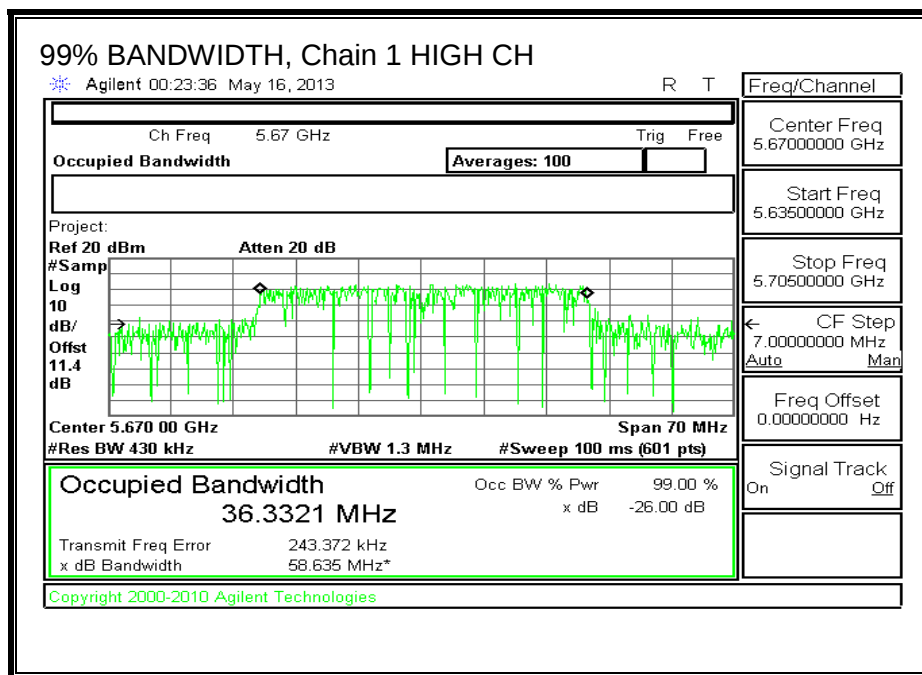
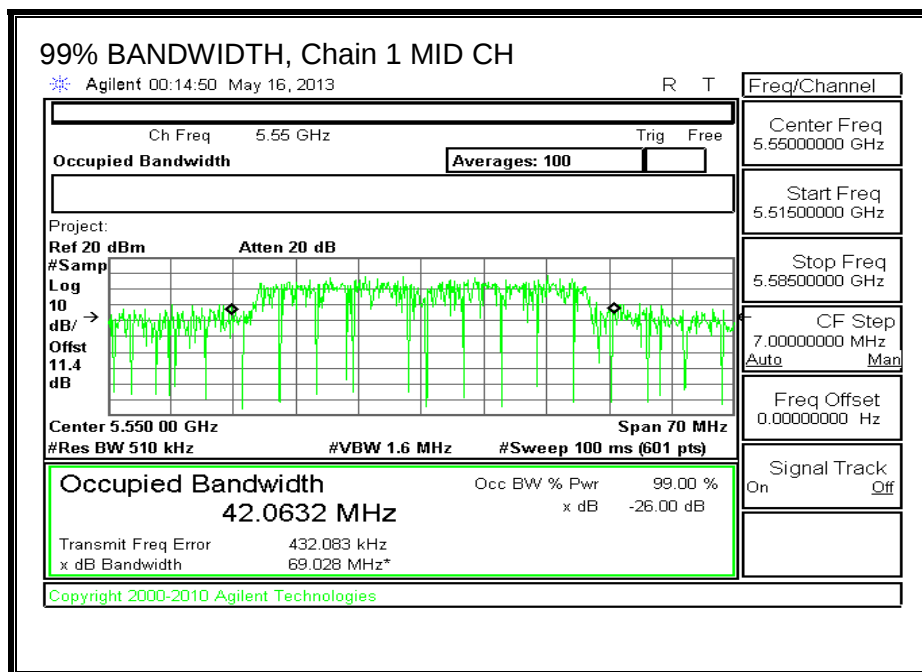
99% BANDWIDTH, Chain 0





99% BANDWIDTH, Chain 1





8.23.3. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.5–5.7 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log₁₀ B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

For output power, the TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain.

For PPSD, the TX chains are correlated and the antenna gain is the same for each chain. The directional gain is:

Antenna Gain (dBi)	10 * Log (2 chains) (dB)	Correlated Chains Directional Gain (dBi)
6.60	3.01	9.61

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Directional Gain (dBi)
Low	5510	66.67	36.1600	6.60	9.61
Mid	5550	87.40	36.4001	6.60	9.61
High	5670	68.00	36.1829	6.60	9.61

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5510	23.40	24.00	30.00	23.40	7.39	11.00	7.39
Mid	5550	23.40	24.00	30.00	23.40	7.39	11.00	7.39
High	5670	23.40	24.00	30.00	23.40	7.39	11.00	7.39

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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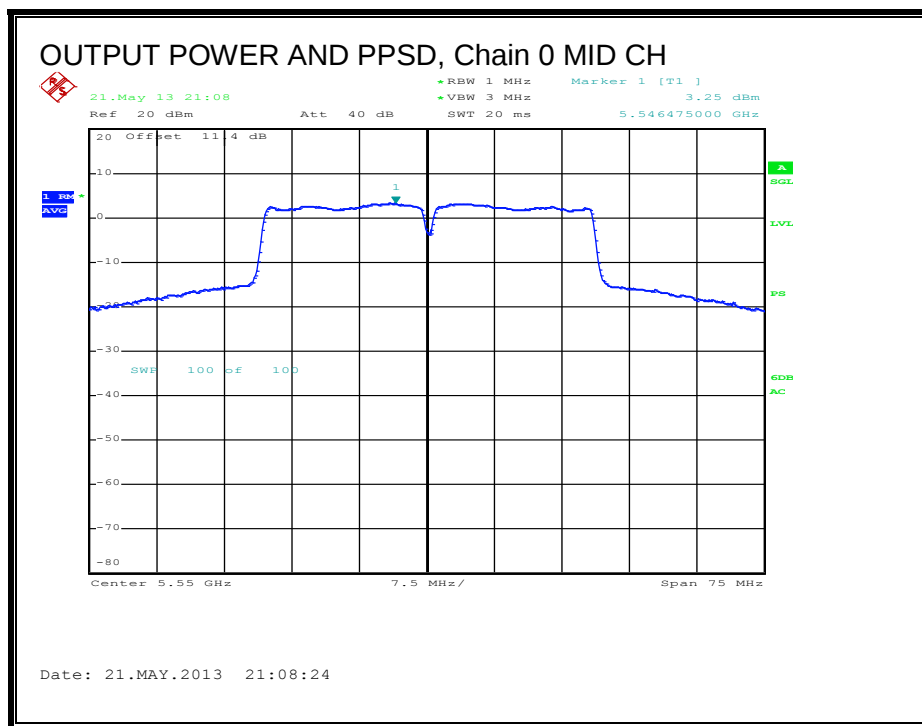
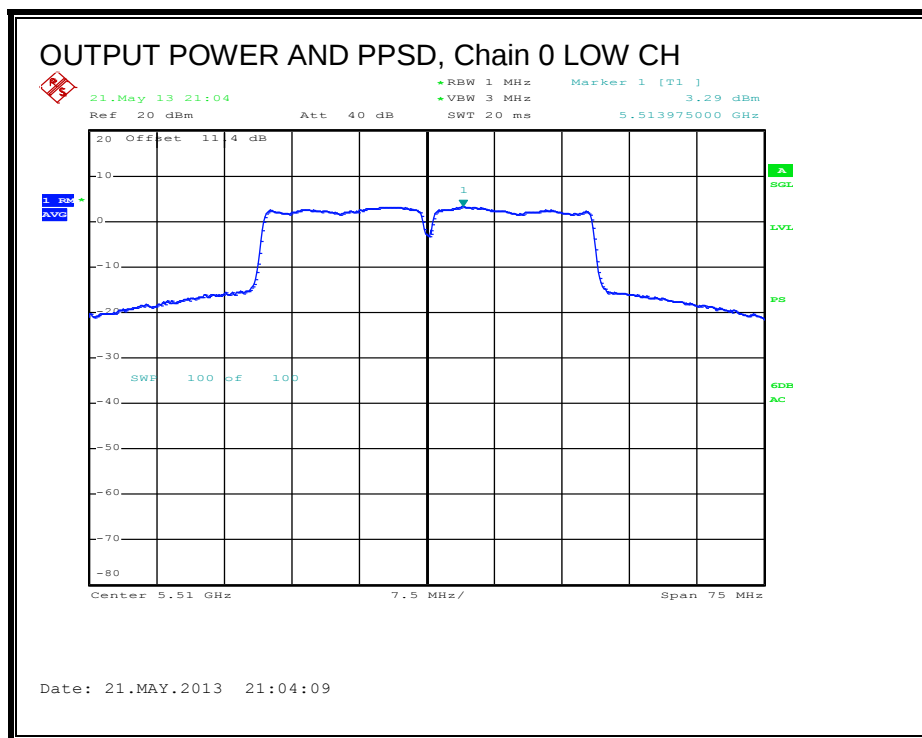
Output Power Results

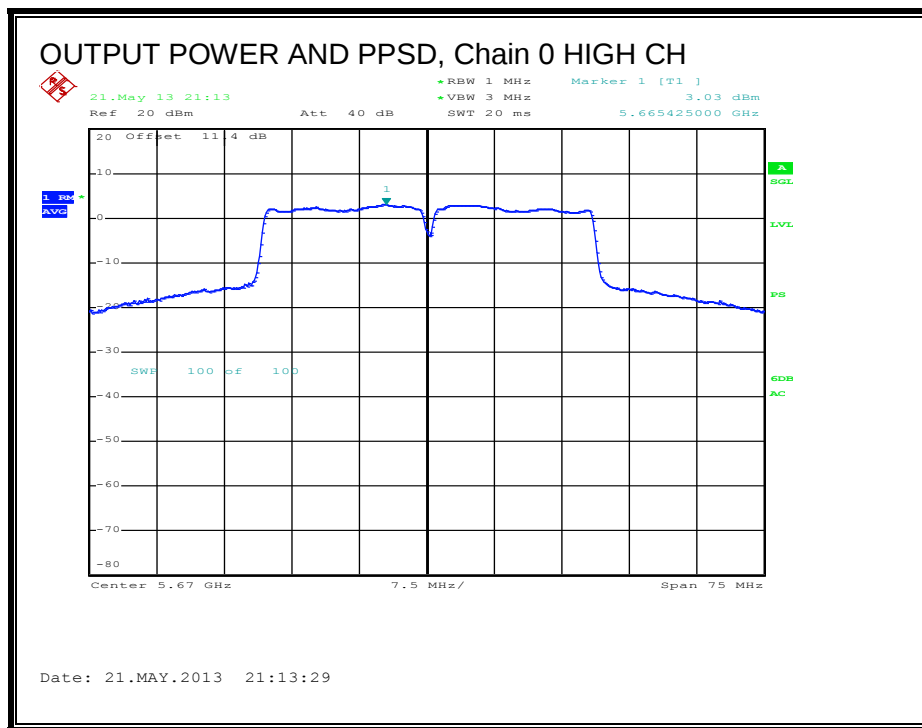
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	14.23	14.51	17.38	23.40	-6.02
Mid	5550	20.51	20.18	23.36	23.40	-0.04
High	5670	16.42	16.69	19.57	23.40	-3.83

PPSD Results

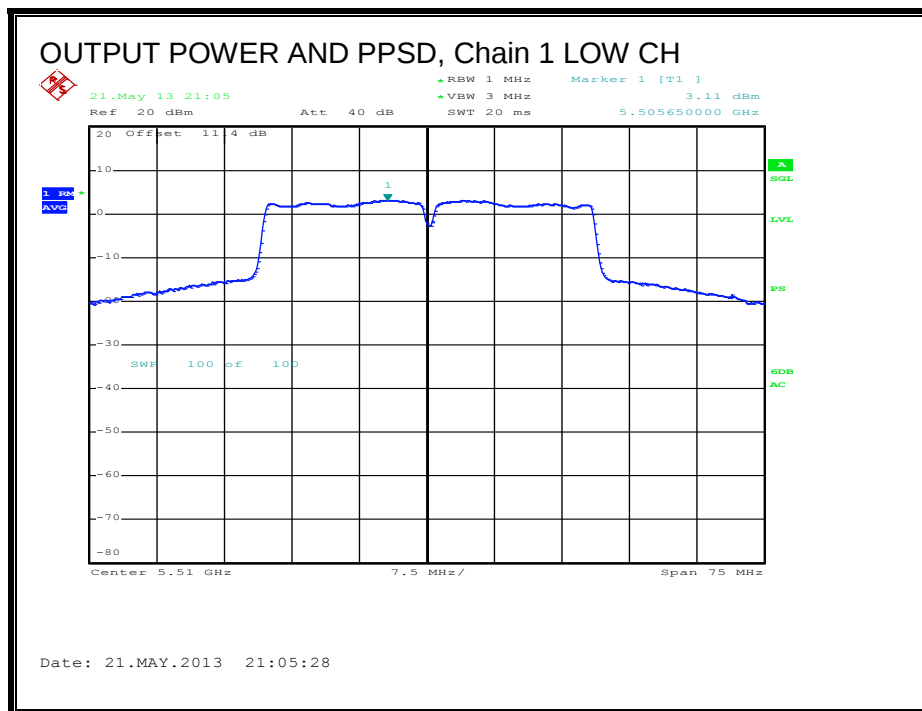
Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5510	3.29	3.11	6.21	7.39	-1.18
Mid	5550	3.25	3.10	6.19	7.39	-1.20
High	5670	3.03	2.98	6.02	7.39	-1.37

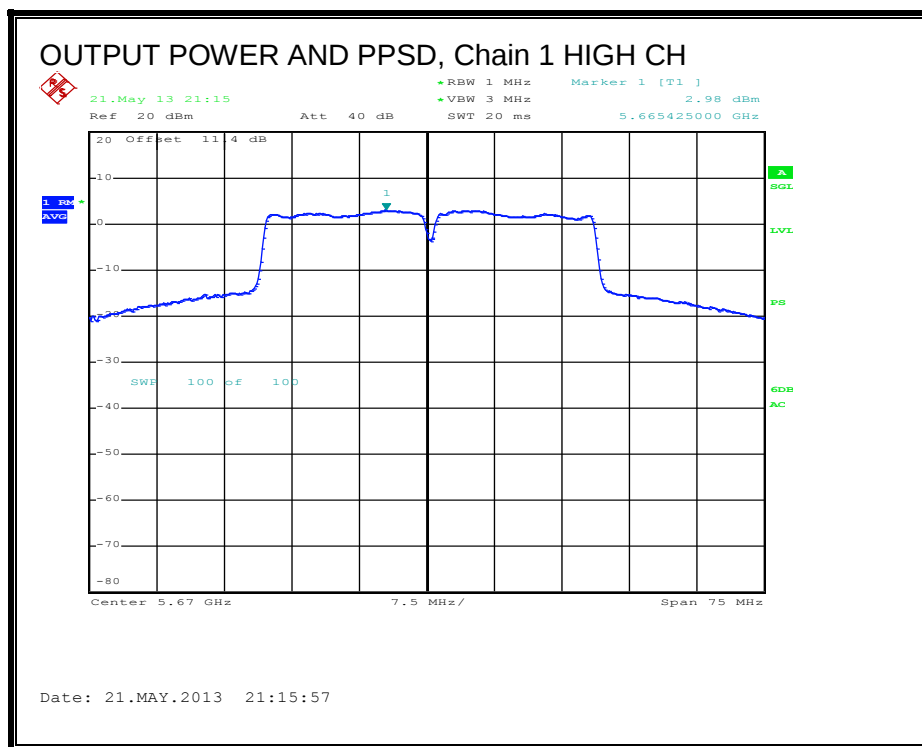
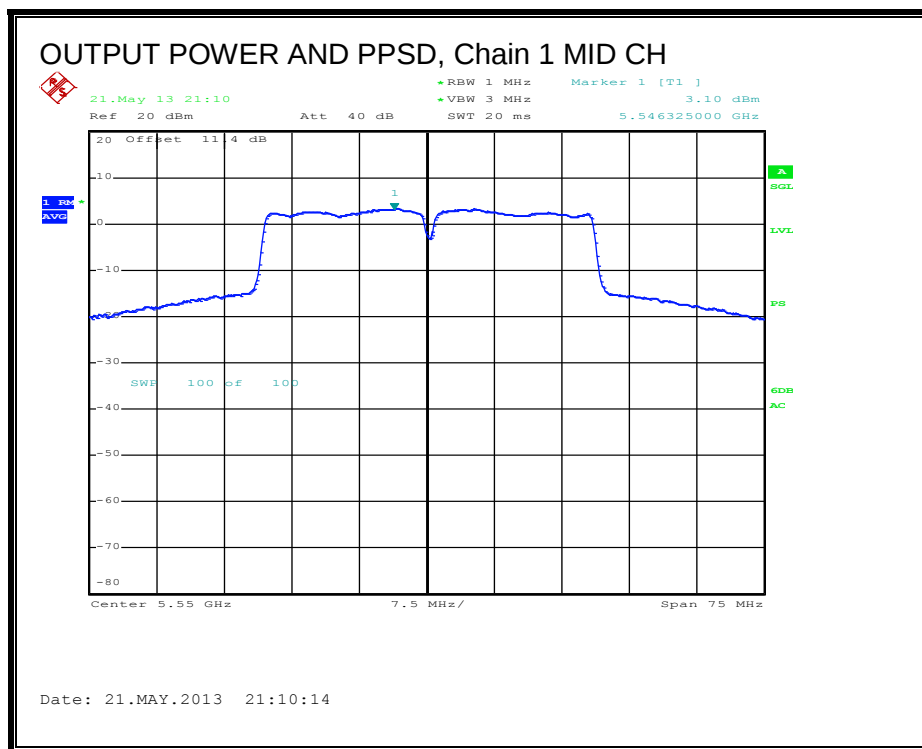
OUTPUT POWER AND PPSD, Chain 0





OUTPUT POWER AND PPSD, Chain 1





8.23.4. PEAK EXCURSION

LIMITS

FCC §15.407 (a) (6)

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS

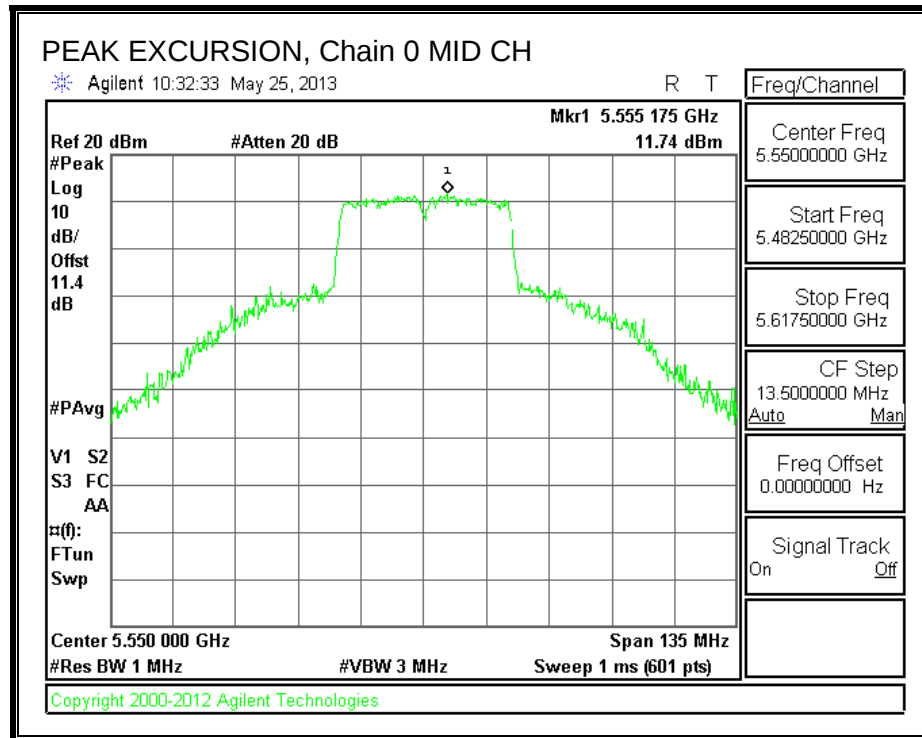
Chain 0

Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5200	11.74	3.25	0.00	8.49	13	-4.51

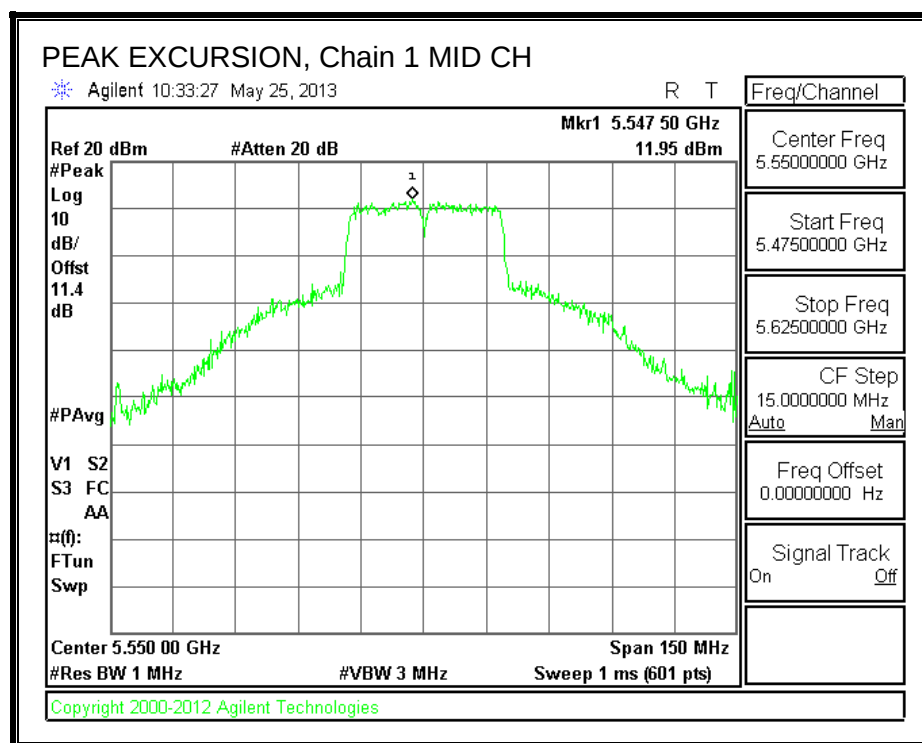
Chain 1

Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5200	11.95	3.10	0.00	8.85	13	-4.15

PEAK EXCURSION, Chain 0



PEAK EXCURSION, Chain 1



8.24. 802.11n HT40 CDD 2TX MODE CHANNEL 142 IN THE 5.6 GHz BAND

8.24.1. 26 dB BANDWIDTH

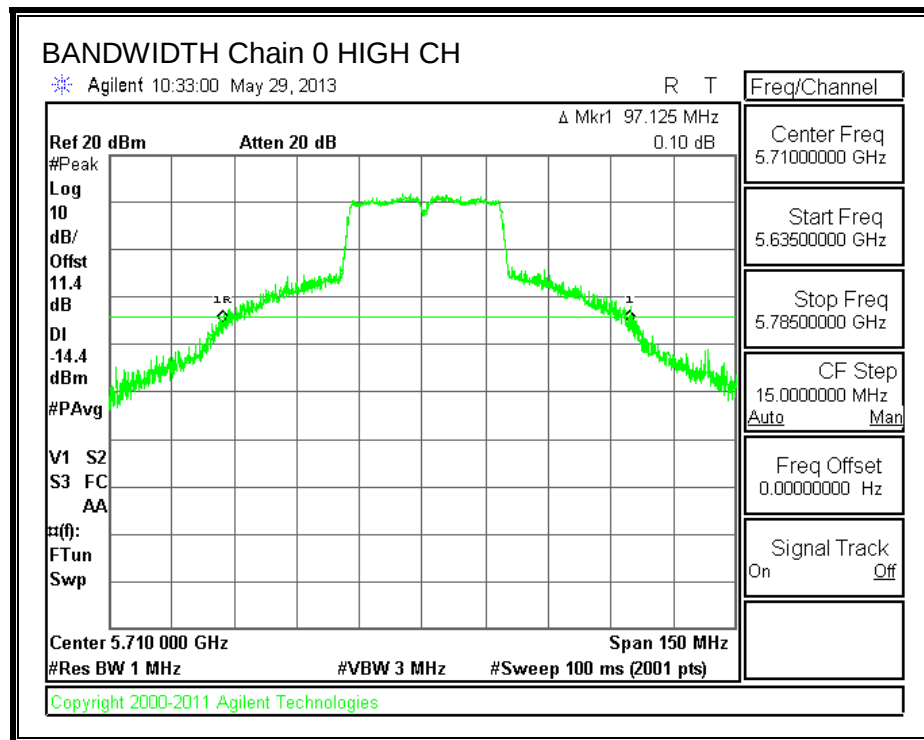
LIMITS

None; for reporting purposes only.

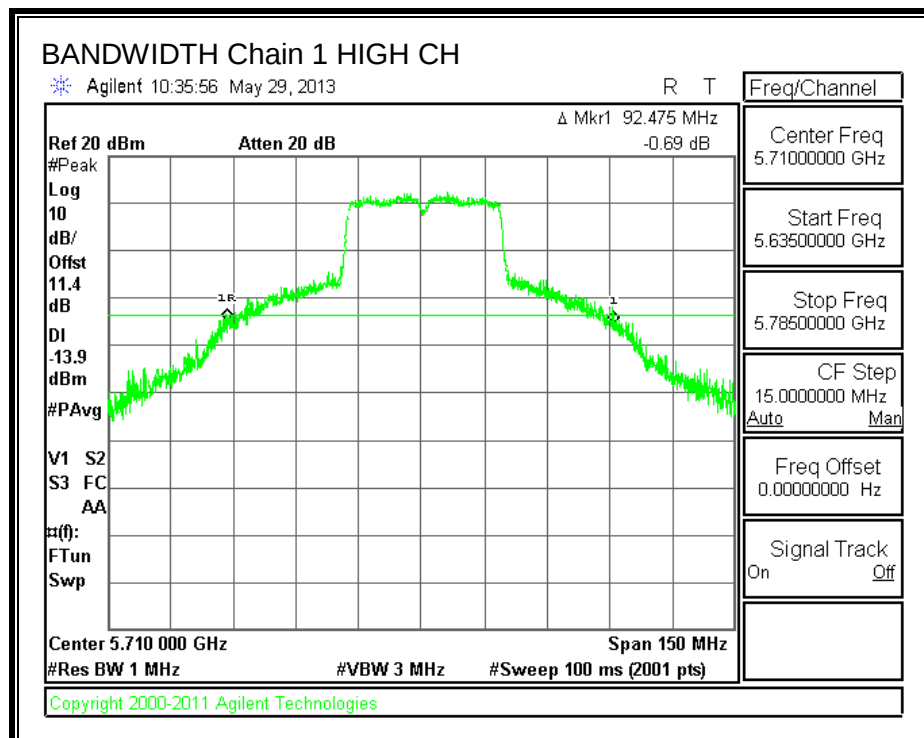
RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
High	5710	97.125	92.475

26 dB BANDWIDTH, Chain 0



26 dB BANDWIDTH, Chain 1



8.24.2. 99% BANDWIDTH

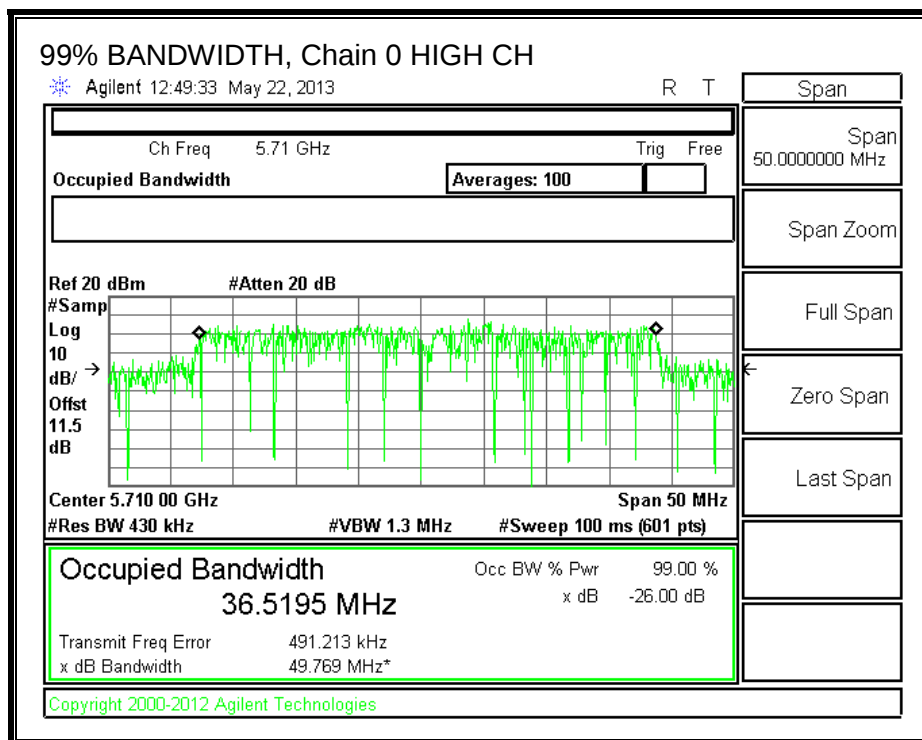
LIMITS

None; for reporting purposes only.

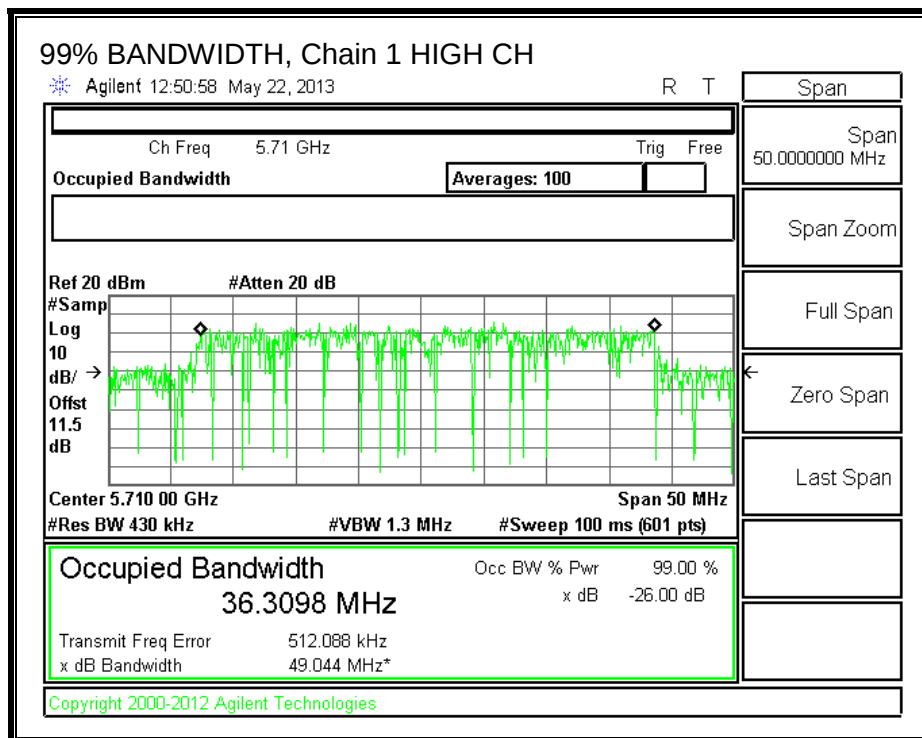
RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
High	5710	36.5195	36.3098

99% BANDWIDTH, Chain 0



99% BANDWIDTH, Chain 1



8.24.3. 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 11.4dB (including 10 dB pad and 1.4 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Average Power Results

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
High	5710	20.56	19.89	23.25

8.24.4. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.5–5.7 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log₁₀ B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

For output power, the TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain.

For PPSD, the TX chains are correlated and the antenna gain is the same for each chain. The directional gain is:

Antenna Gain (dBi)	10 * Log (2 chains) (dB)	Correlated Chains Directional Gain (dBi)
6.60	3.01	9.61

RESULTS

Limit (FCC), portion in UNII 2 ext band

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Uncorrelated Directional Gain (dBi)	Correlated Directional Gain (dBi)
High	5710	63.5625	33.1549	6.60	9.61

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5710	23.40	24.00	30.00	23.40	7.39	11.00	7.39

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5710	14.37	12.90	16.71	23.40	-6.69

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
High	5710	0.71	-0.74	3.06	7.39	-4.33

Limit (FCC), portion in UNII 3 band

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Uncorrelated Directional Gain (dBi)	Correlated Directional Gain (dBi)
High	5710	31.2375	3.1549	6.60	9.61

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5710	23.40	15.99	21.99	15.39	7.39	11.00	7.39

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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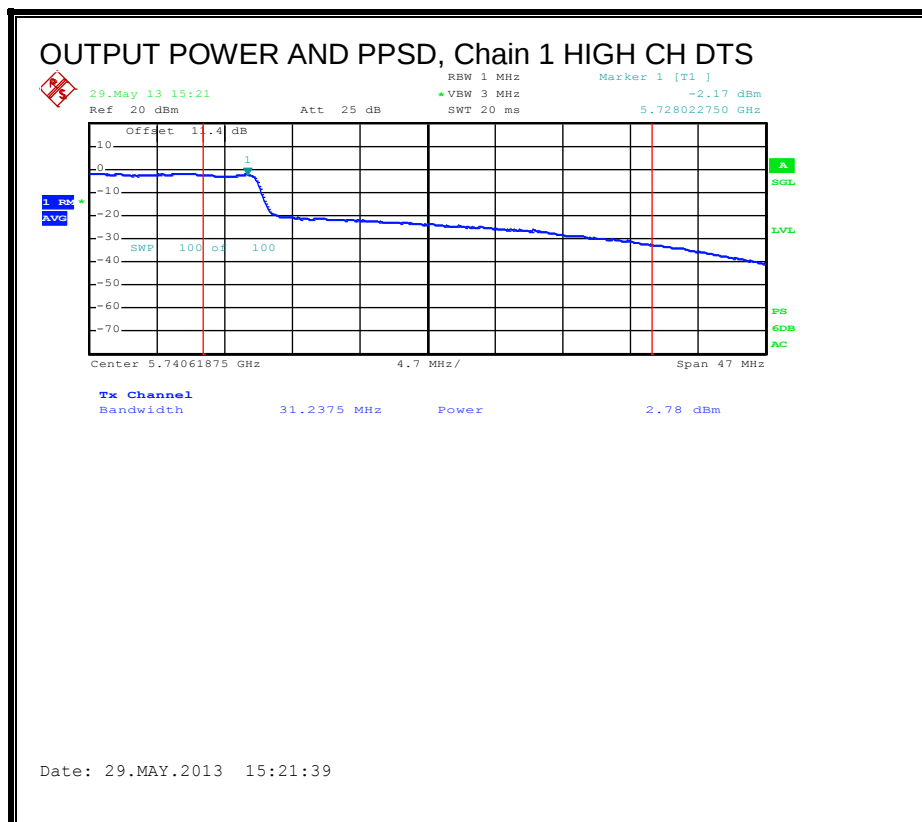
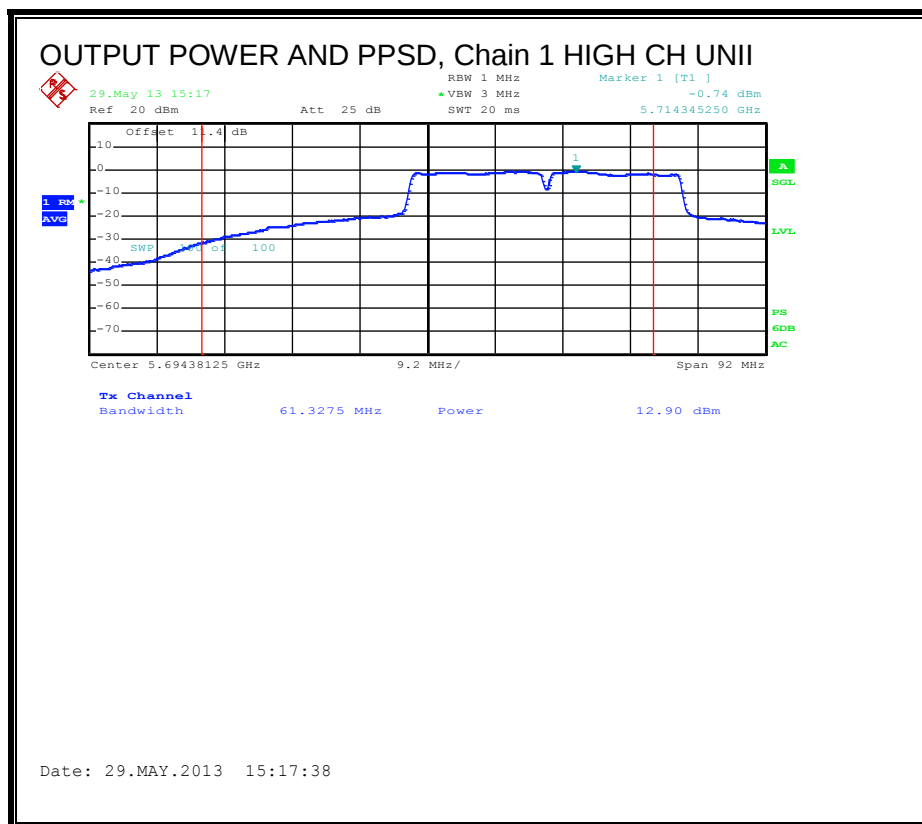
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5710	6.15	2.78	7.79	15.39	-7.60

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
High	5710	1.34	-2.17	2.94	7.39	-4.45

OUTPUT POWER AND PPSD, Chain 1



8.25. 802.11ac VHT80 SISO MODE IN THE 5.6 GHz BAND

8.25.1. 26 dB BANDWIDTH

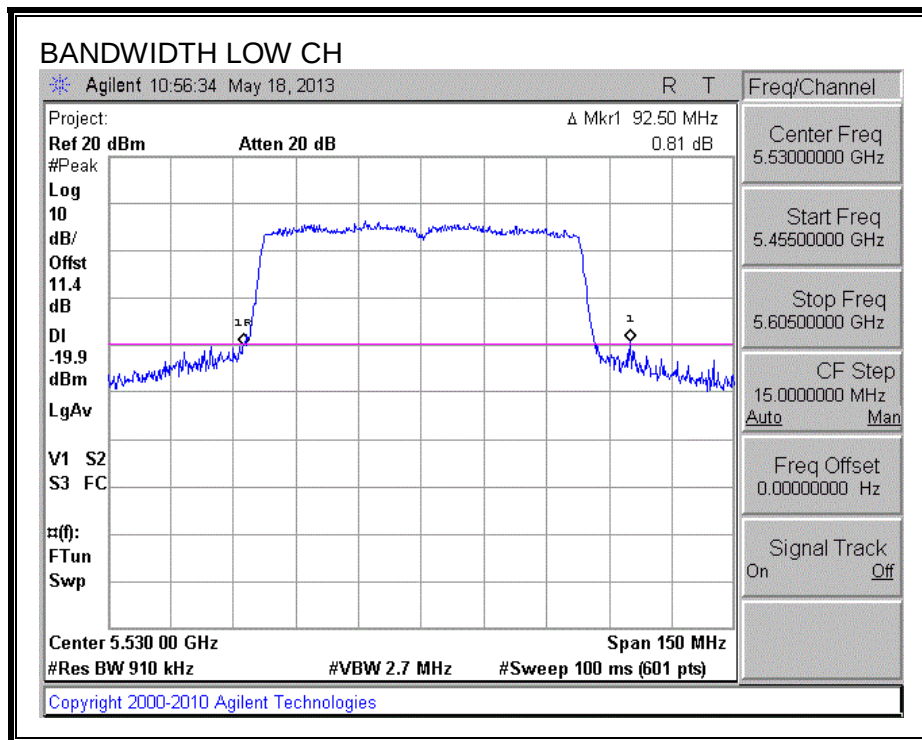
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5530	92.5

26 dB BANDWIDTH



8.25.2. 99% BANDWIDTH

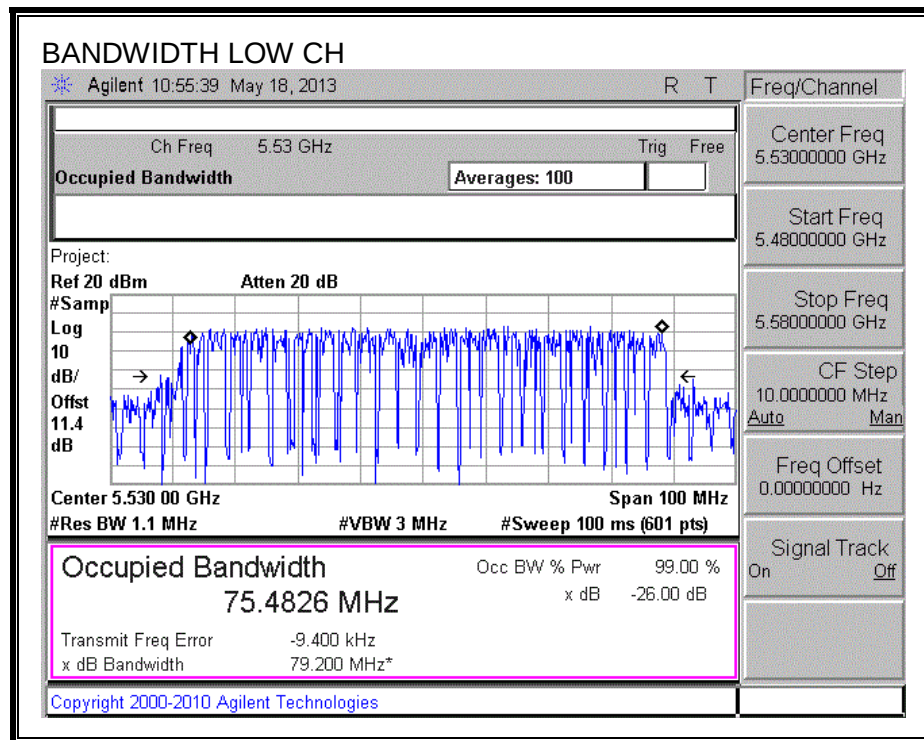
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5530	75.4826

99% BANDWIDTH



8.25.3. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.5–5.7 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5530	92.5	75.4826	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5530	23.40	24.00	30.00	23.40	10.40	11.00	10.40

Duty Cycle CF (dB)	0.16	Included in Calculations of PPSP
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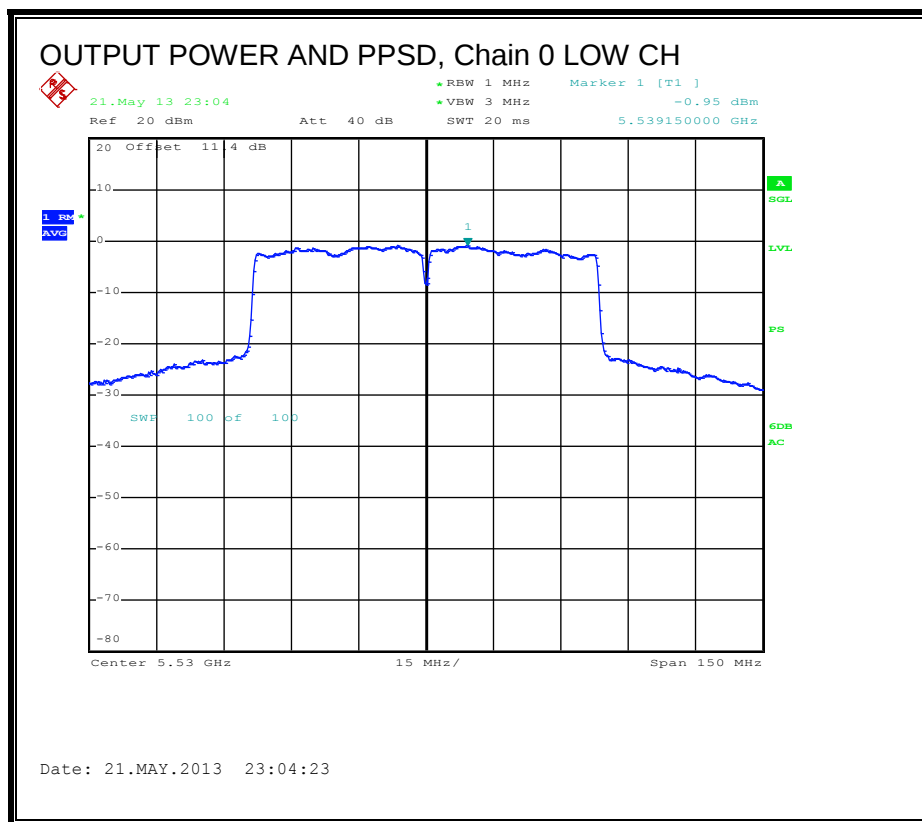
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	15.04	15.04	23.40	-8.36

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5530	-0.95	-0.79	10.40	-11.19

OUTPUT POWER AND PPSD, Chain 0



8.26. 802.11ac VHT80 SISO MODE CHANNEL 138 IN THE 5.6 GHz BAND

8.26.1. 26 dB BANDWIDTH

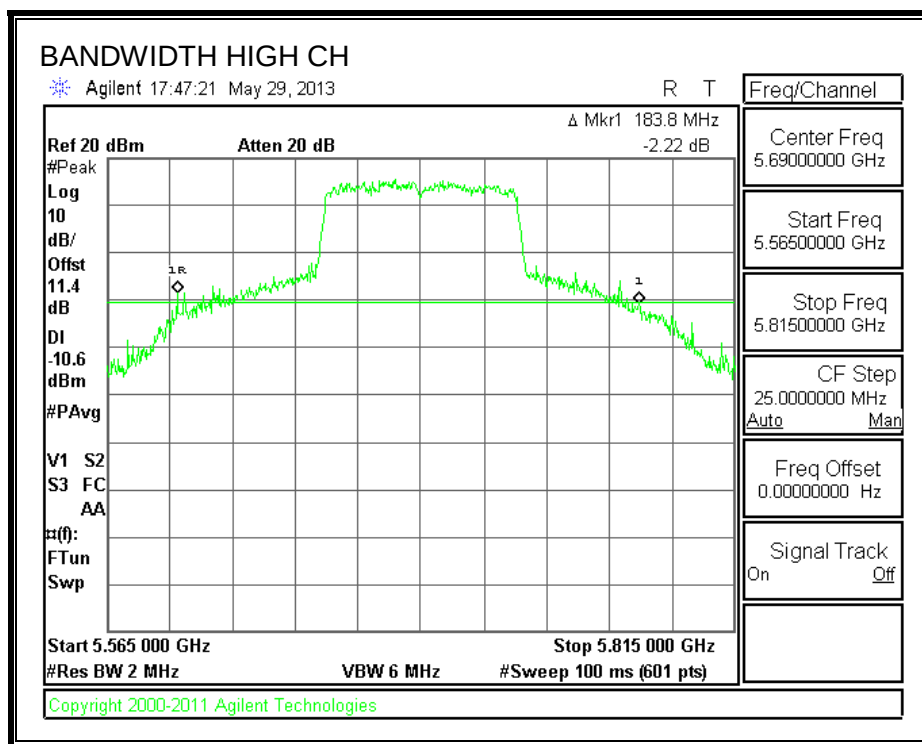
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
High	5690	183.8

26 dB BANDWIDTH



8.26.2. 99% BANDWIDTH

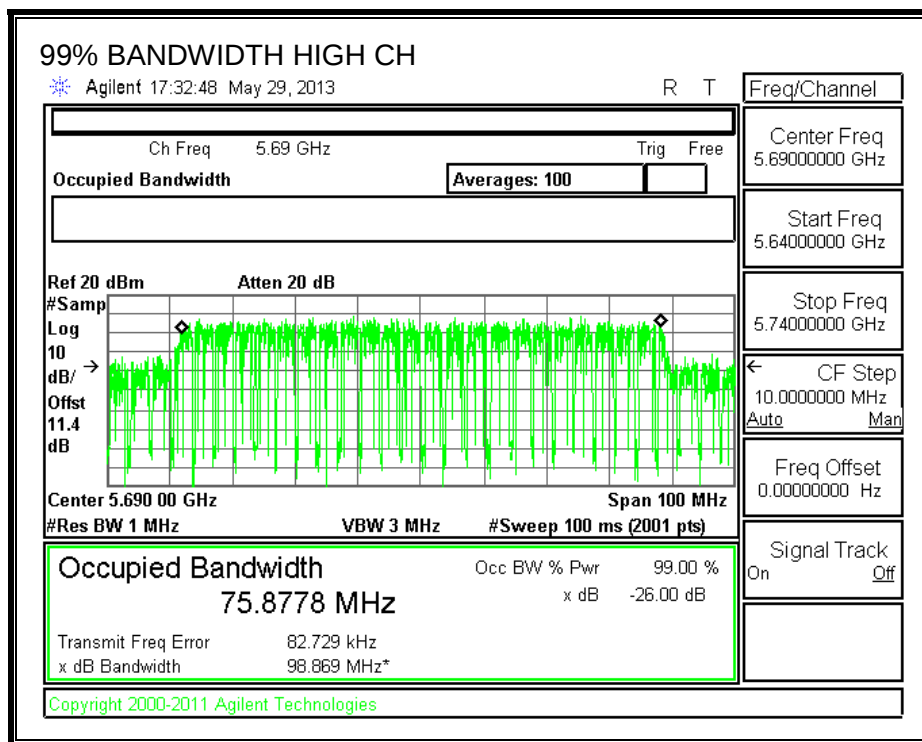
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
High	5690	75.8778

99% BANDWIDTH



8.26.3. 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 11.4 dB (including 10 dB pad and 1.4 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
High	5690	20.45

8.26.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.5–5.7 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Limits (FCC), portion in UNII 2 ext band

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
High	5690	126.9	72.9389	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5690	24.00	24.00	30.00	24.00	10.40	11.00	10.40

Duty Cycle CF (dB)	0.16	Included in Calculations of PPSP
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5690	15.72	15.88	24.00	-8.12

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
High	5690	-1.080	-0.92	10.40	-11.32

Limits (FCC), portion in 5.8 GHz UNII-3 band

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
High	5690	56.9	2.9389	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5690	24.00	15.68	21.68	15.68	10.40	11.00	10.40

Duty Cycle CF (dB)	0.16	Included in Calculations of PPSP
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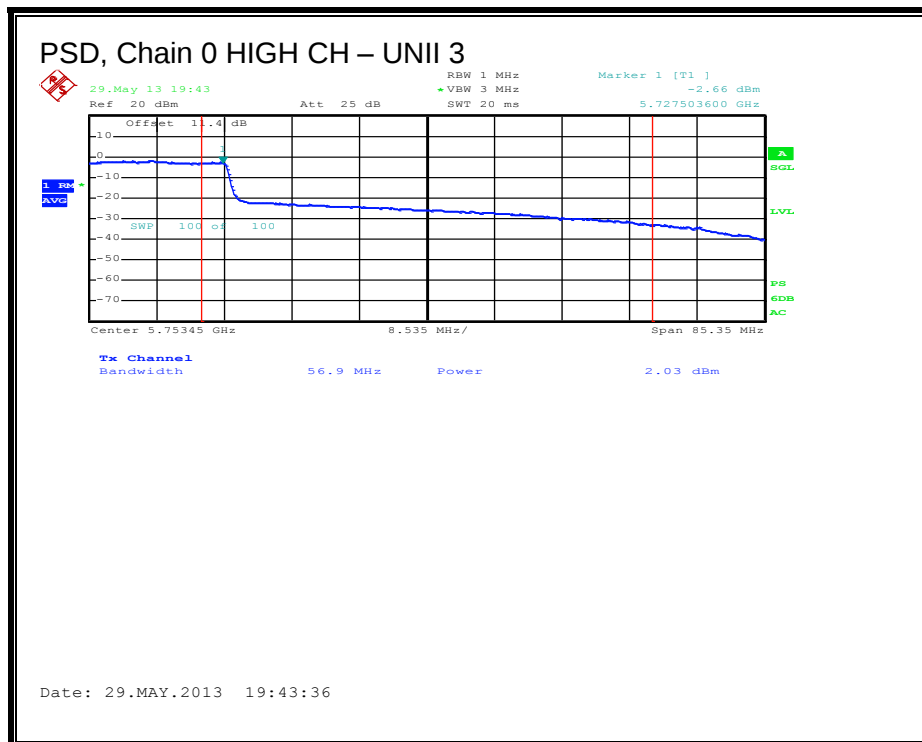
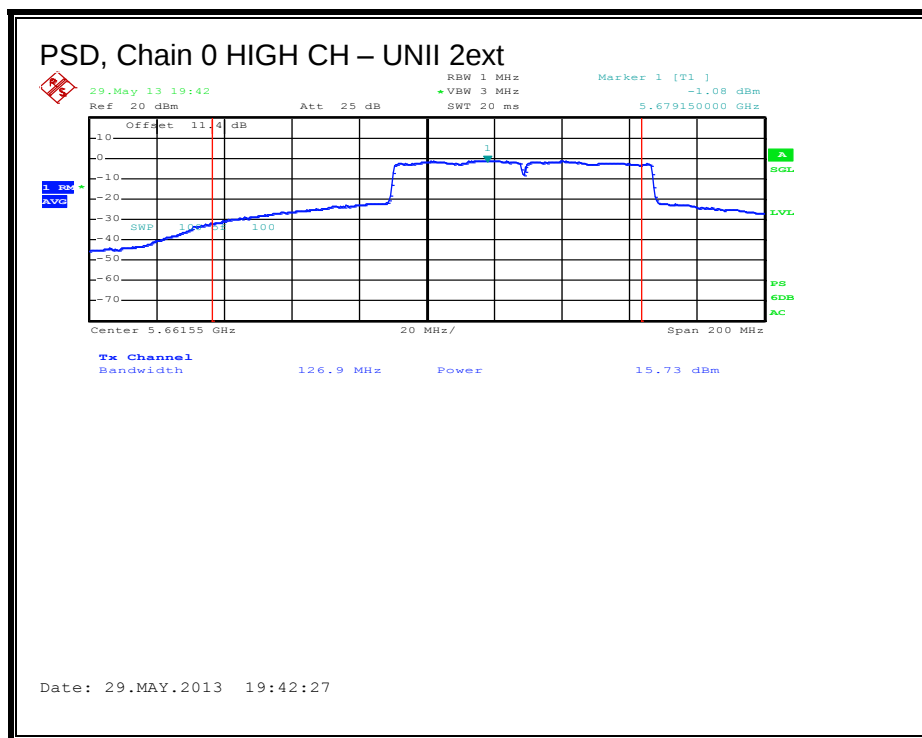
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5690	2.02	2.18	15.68	-13.50

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
High	5690	-2.660	-2.50	10.40	-12.90

PSD, Chain 0



8.26.1. PEAK EXCURSION

LIMITS

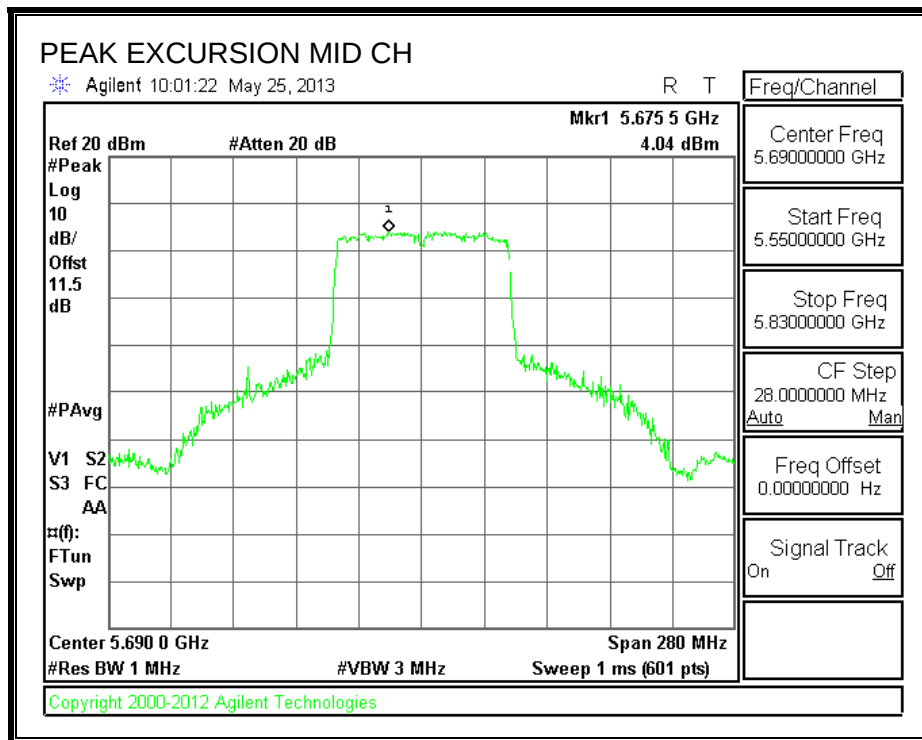
FCC §15.407 (a) (6)

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS

Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5690	4.04	-0.92	0.16	4.80	13	-8.20

PEAK EXCURSION



8.27. 802.11ac VHT80 CDD 2TX MODE IN THE 5.6 GHz BAND

8.27.1. 26 dB BANDWIDTH

LIMITS

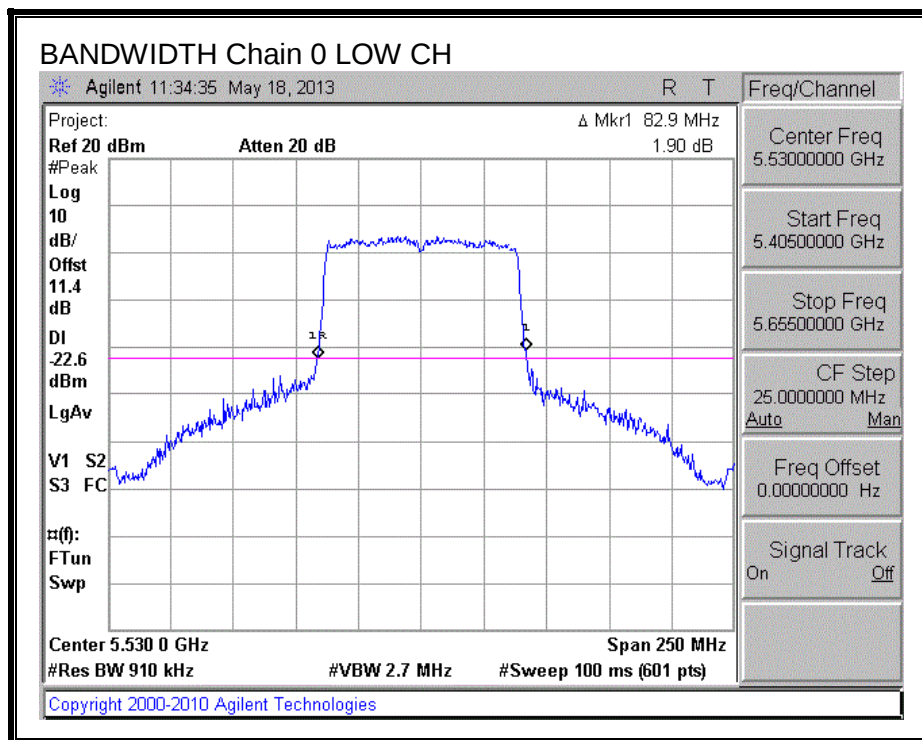
None; for reporting purposes only.

RESULTS

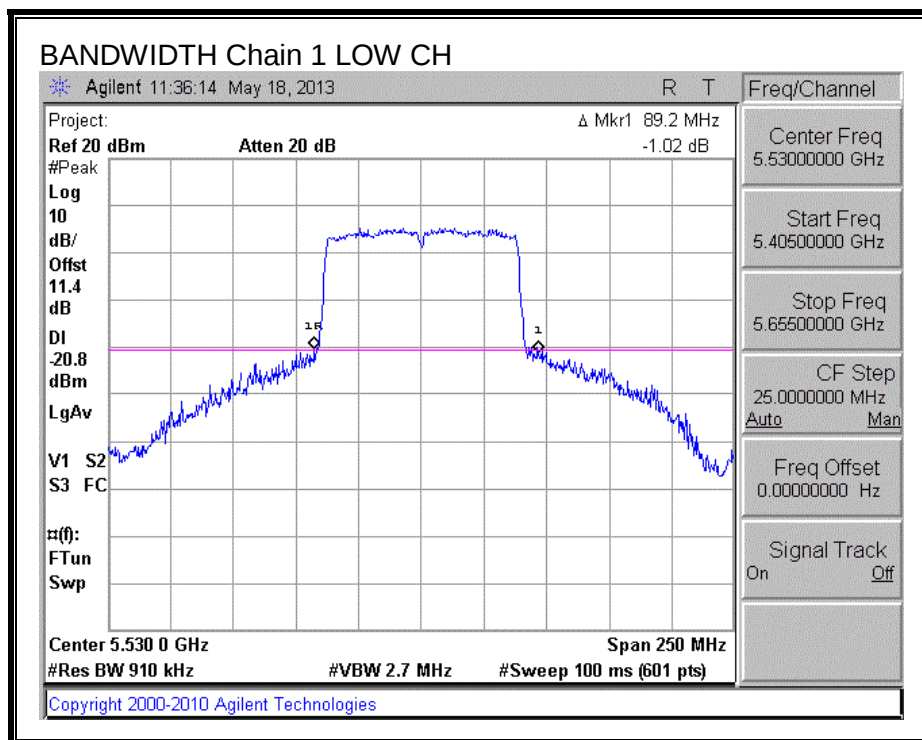
Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5530	82.9	89.2

26 dB BANDWIDTH

26 dB BANDWIDTH, Chain 0



26 dB BANDWIDTH, Chain 1



8.27.2. 99% BANDWIDTH

LIMITS

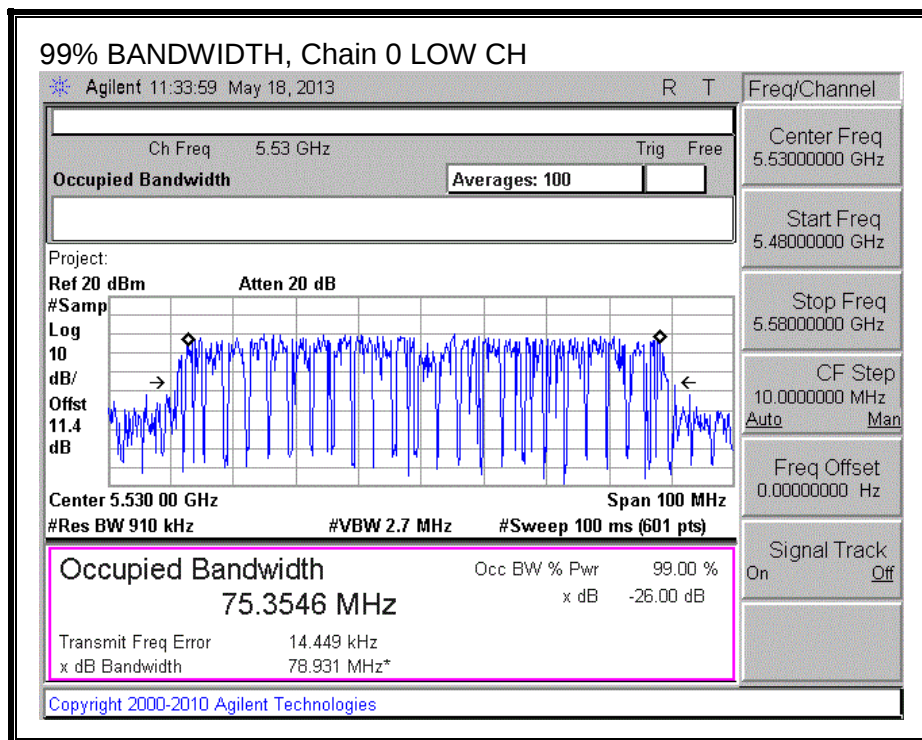
None; for reporting purposes only.

RESULTS

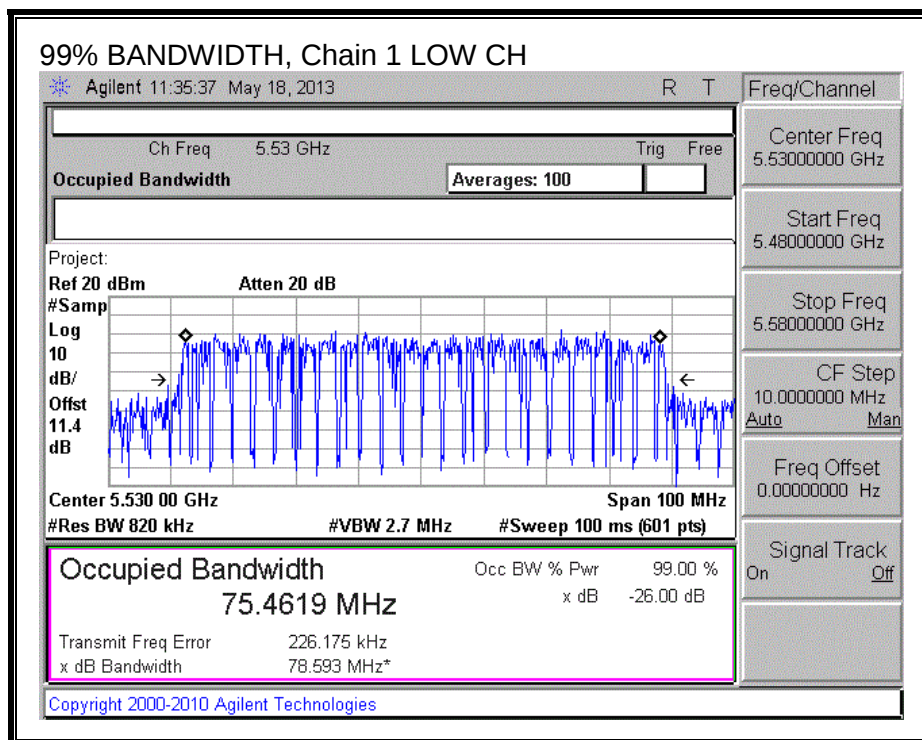
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5530	75.3546	75.4619

99% BANDWIDTH

99% BANDWIDTH, Chain 0



99% BANDWIDTH, Chain 1



8.27.3. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.5–5.7 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log₁₀ B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

For output power, the TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain.

For PPSD, the TX chains are correlated and the antenna gain is the same for each chain. The directional gain is:

Antenna Gain (dBi)	10 * Log (2 chains) (dB)	Correlated Chains Directional Gain (dBi)
6.60	3.01	9.61

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Directional Gain (dBi)
Low	5530	82.9	75.3546	6.60	9.61

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5530	23.40	24.00	30.00	23.40	7.39	11.00	7.39

Duty Cycle CF (dB)	0.16	Included in Calculations of PSD
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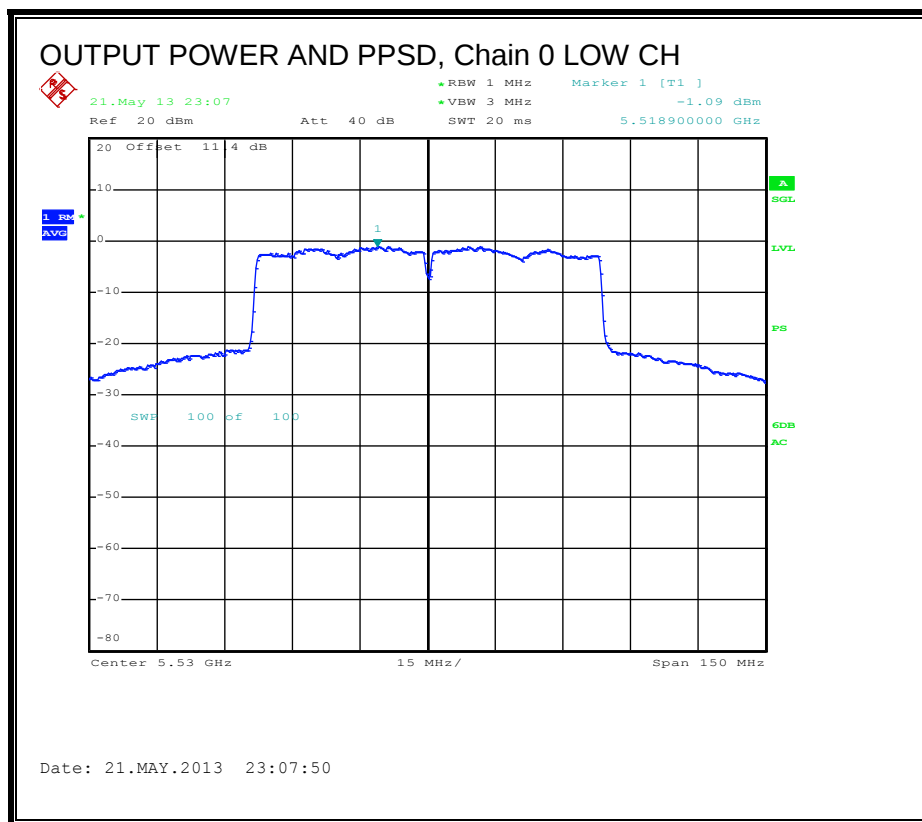
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	13.43	13.69	16.57	23.40	-6.83

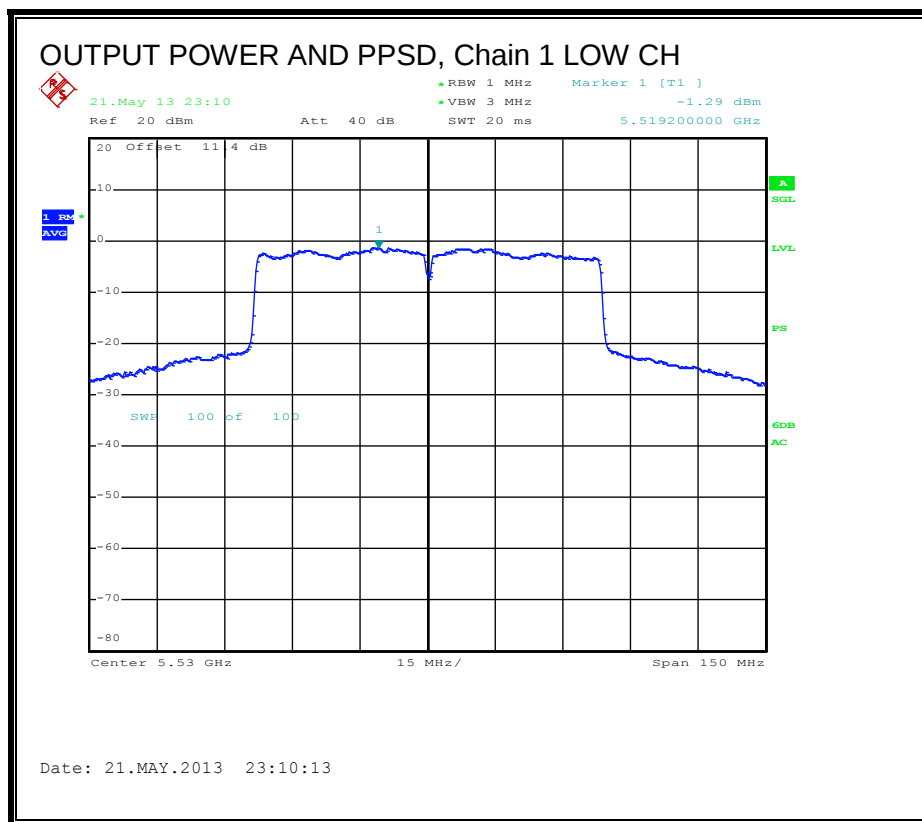
PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5530	-1.09	-1.29	1.98	7.39	-5.41

OUTPUT POWER AND PPSD, Chain 0



OUTPUT POWER AND PPSD, Chain 1



8.28. 802.11ac VHT80 CDD 2TX MODE CHANNEL 138 IN THE 5.6 GHz BAND

8.28.1.26 dB BANDWIDTH

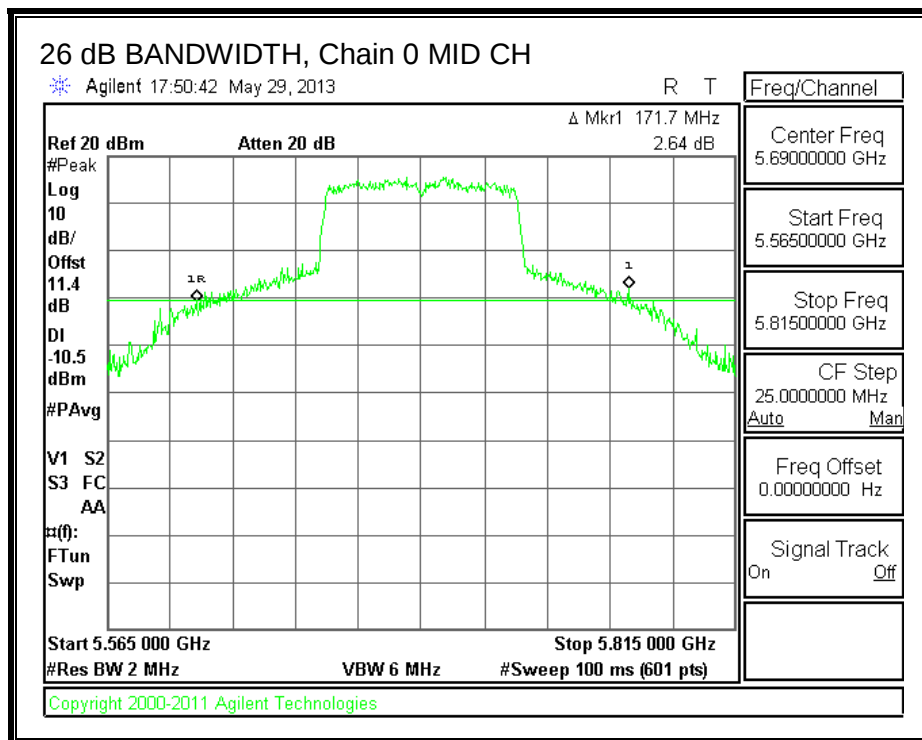
LIMITS

None; for reporting purposes only.

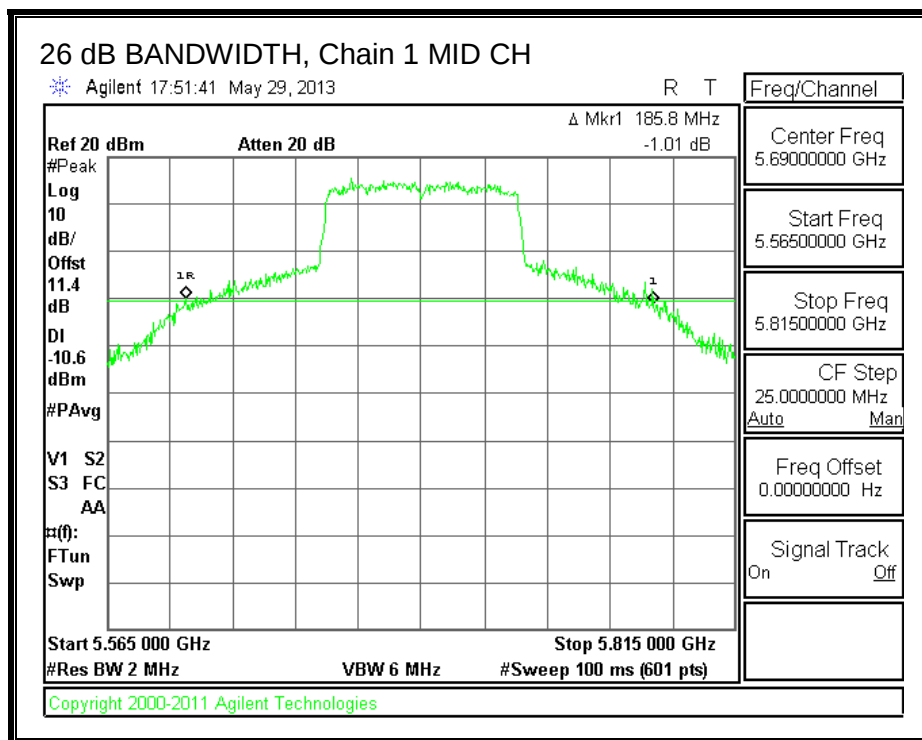
RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Mid	5690	171.70	185.80

26 dB BANDWIDTH, Chain 0



26 dB BANDWIDTH, Chain 1



8.28.2.99% BANDWIDTH

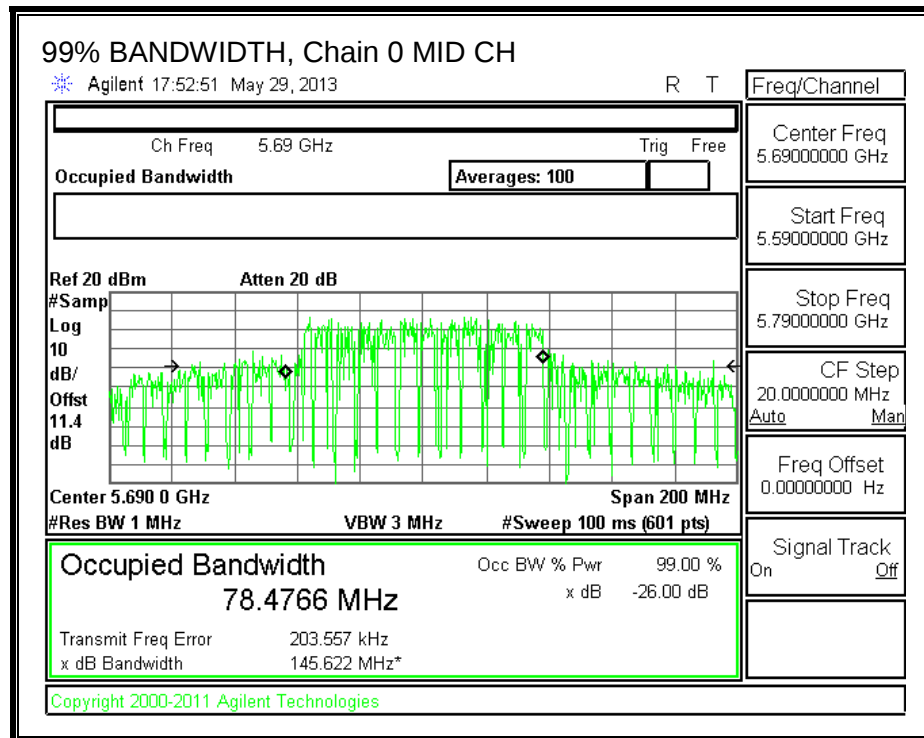
LIMITS

None; for reporting purposes only.

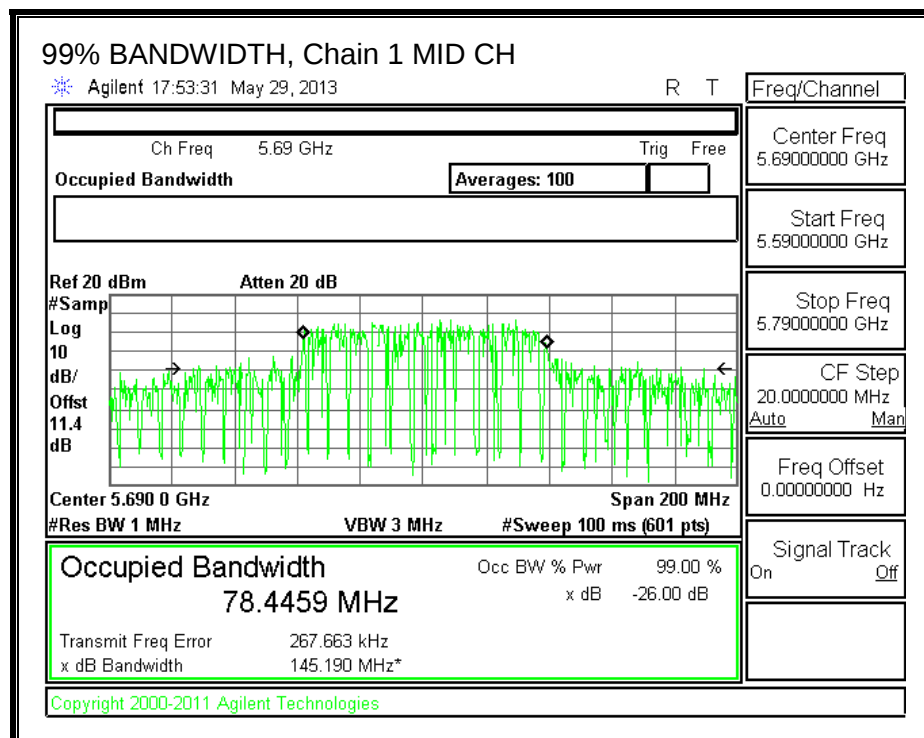
RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Mid	5690	78.4766	78.4459

99% BANDWIDTH, Chain 0



99% BANDWIDTH, Chain 1



8.28.3. 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 11.4 dB (including 10 dB pad and 1.4 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Average Power Results

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Mid	5690	20.34	20.19	23.28

8.28.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.5–5.7 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

For output power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
6.60	6.60	6.60

For PPSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
6.60	6.60	9.61

RESULTS

Limits (FCC), portion in UNII 2 ext band

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Correlated Gain (dBi)	Uncorrelated Gain (dBi)
High	5690	120.85	74.22300	9.61	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5690	23.40	24.00	30.00	23.40	7.39	11.00	7.39

Duty Cycle CF (dB)	0.16	Included in Calculations of PPSP
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5690	15.35	14.35	18.05	23.40	-5.35

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
High	5690	-1.37	-2.26	1.38	7.39	-6.01

Limits (FCC), portion in 5.8 GHz UNII-3 band

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Correlated Gain (dBi)	Uncorrelated Gain (dBi)
High	5690	50.85	4.2230	9.61	6.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5690	23.40	17.26	23.26	16.66	7.39	11.00	7.39

Duty Cycle CF (dB)	0.16	Included in Calculations of Corr'd Power & PSD
--------------------	------	--

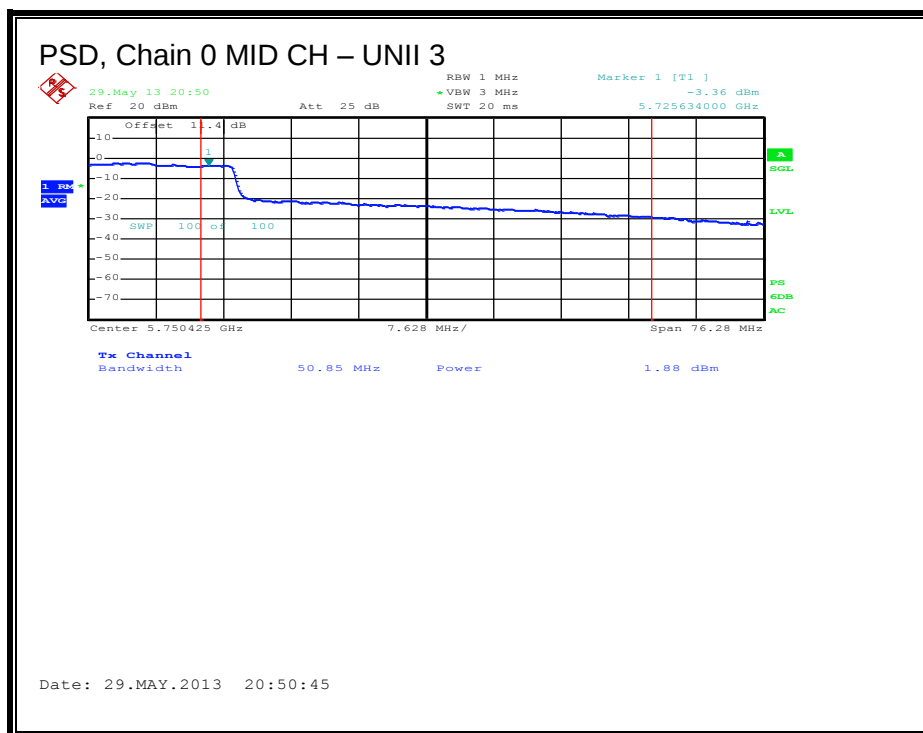
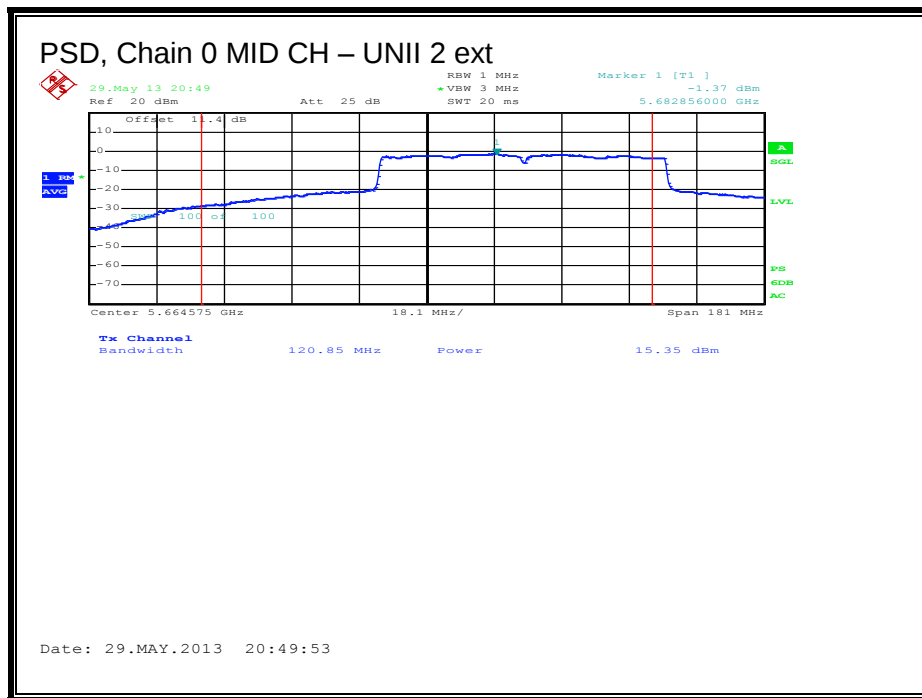
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5690	1.88	1.07	4.66	16.66	-11.99

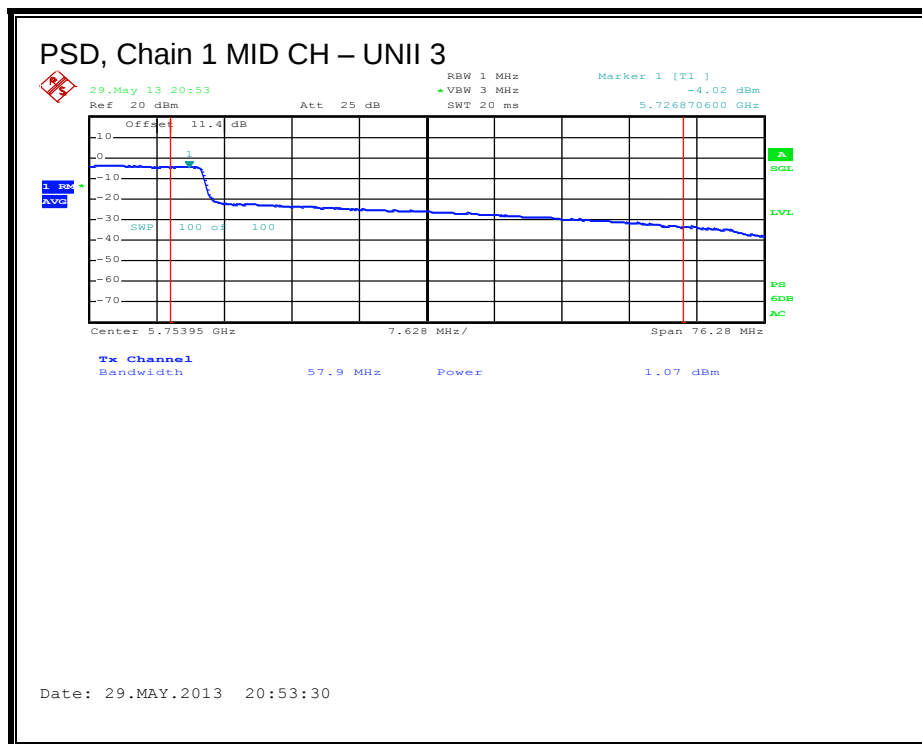
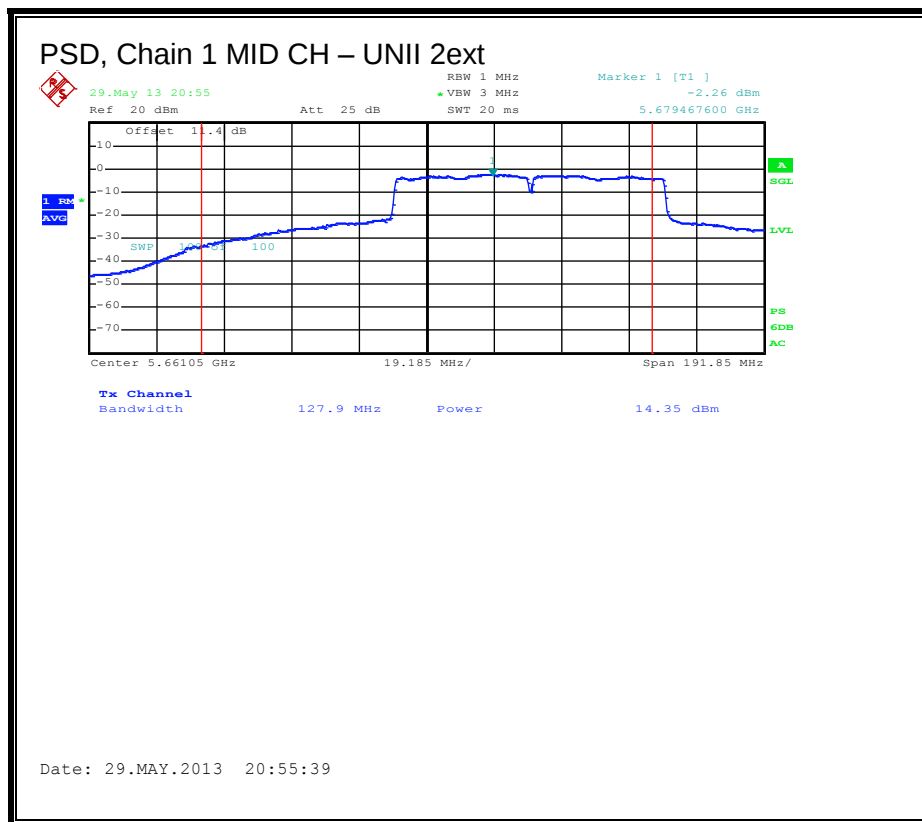
PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
High	5690	-3.360	-4.02	-0.51	7.39	-7.90

PSD, Chain 0



PSD, Chain 1



8.28.1. PEAK EXCURSION

LIMITS

FCC §15.407 (a) (6)

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS

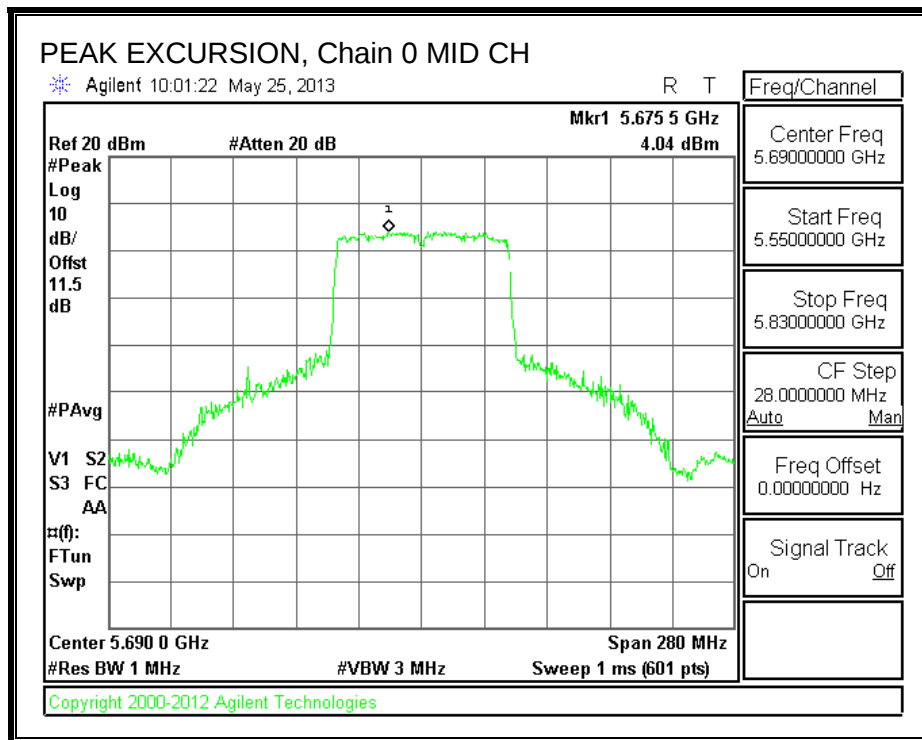
Chain 0

Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5690	4.04	-1.37	0.16	5.25	13	-7.75

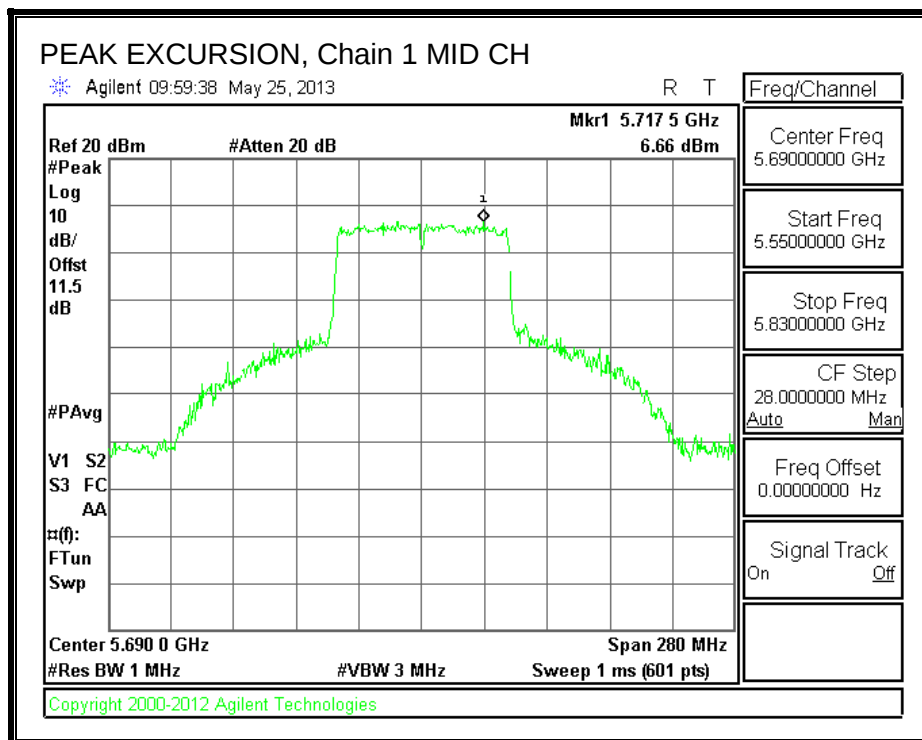
Chain 1

Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5690	6.66	-2.26	0.16	8.76	13	-4.24

PEAK EXCURSION, Chain 0



PEAK EXCURSION, Chain 1



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.

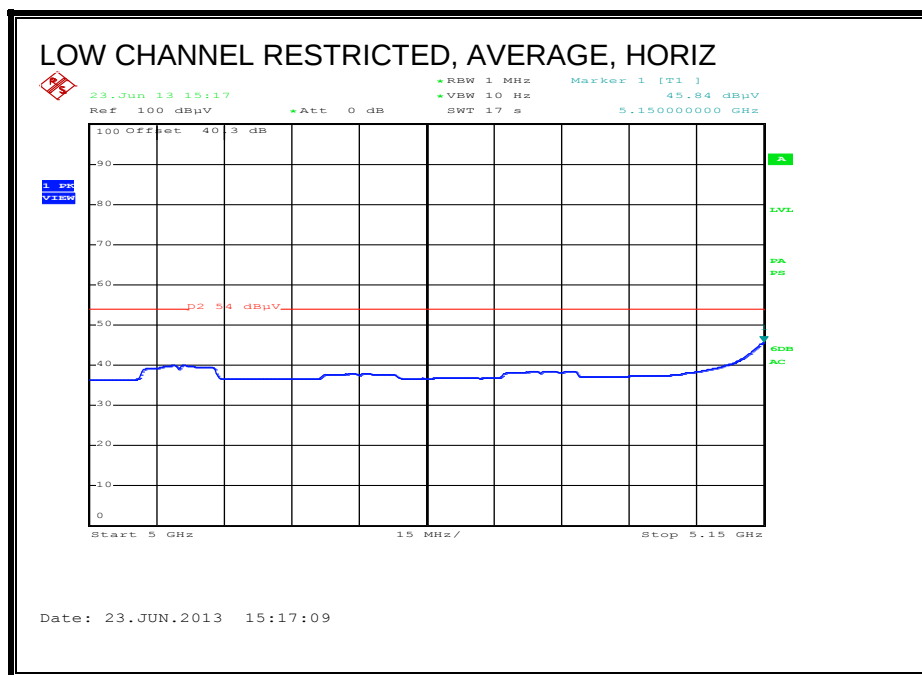
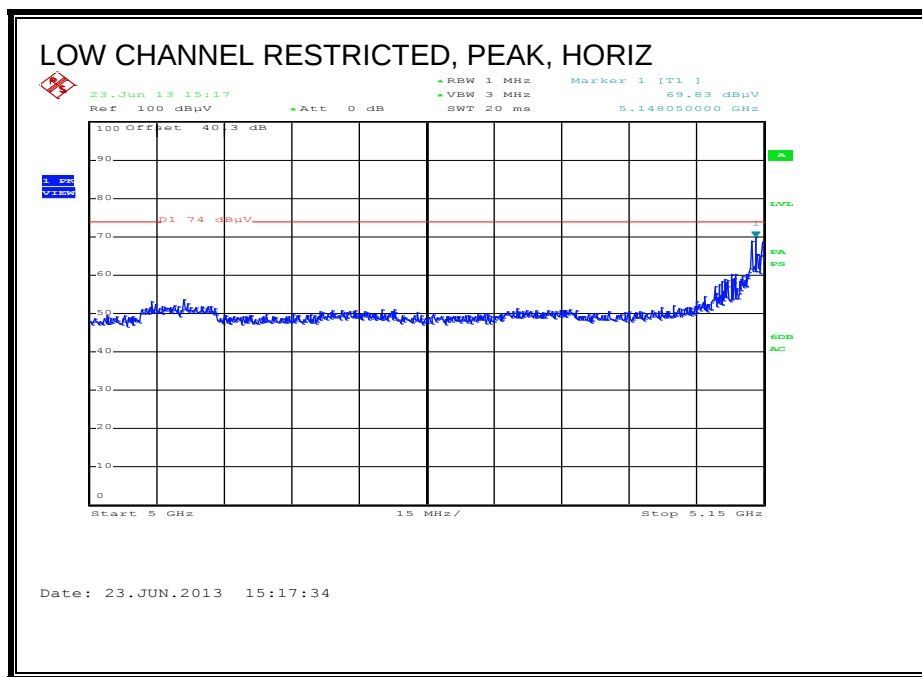
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

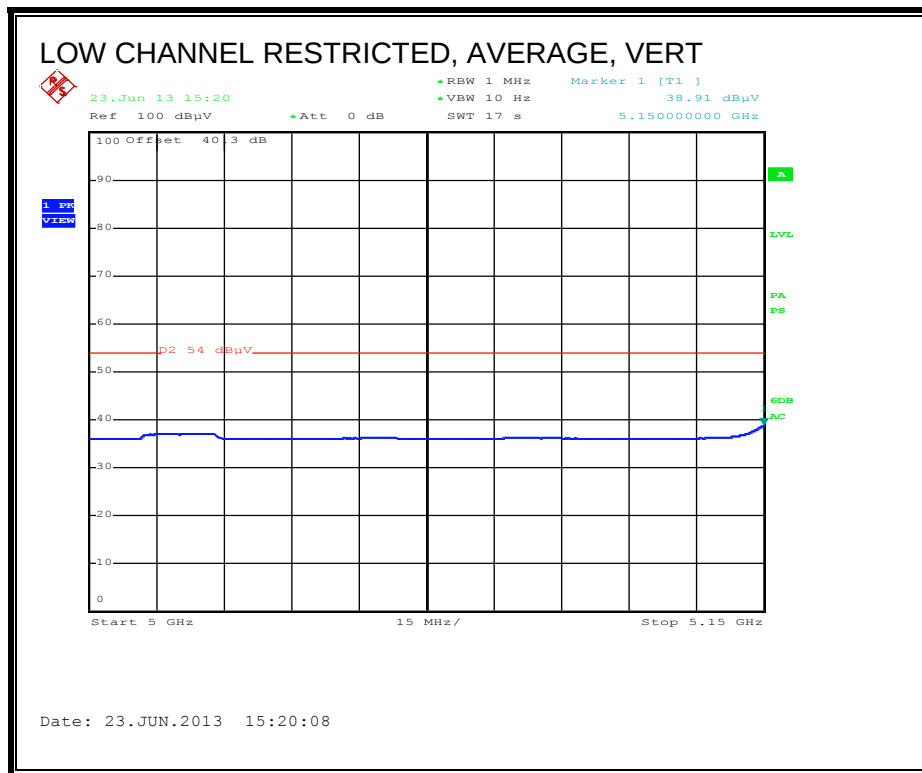
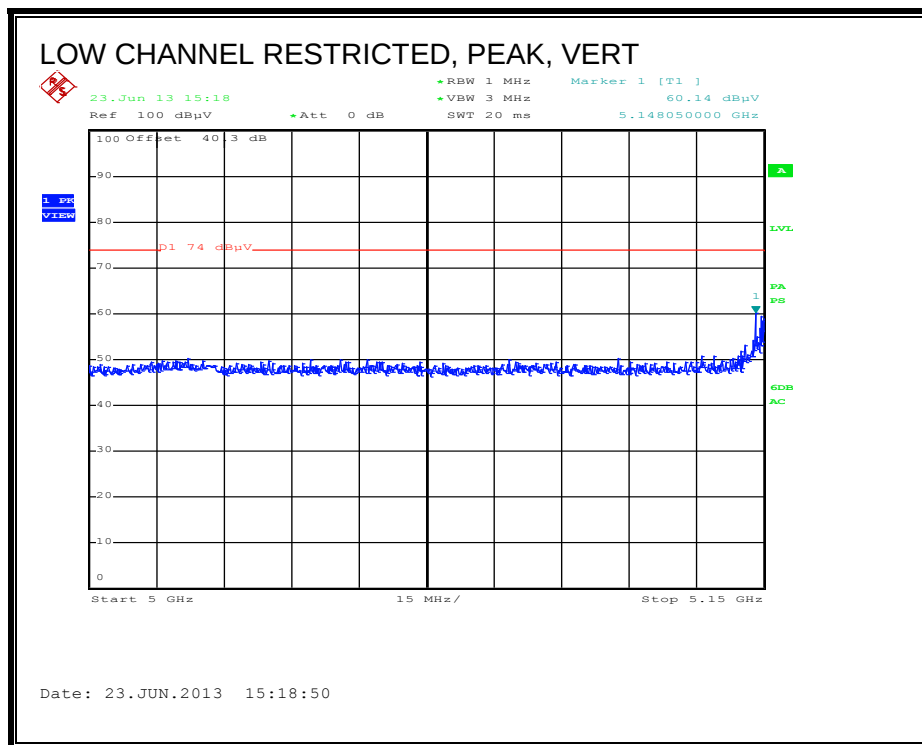
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. TX ABOVE 1 GHz 802.11a LEGACY MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



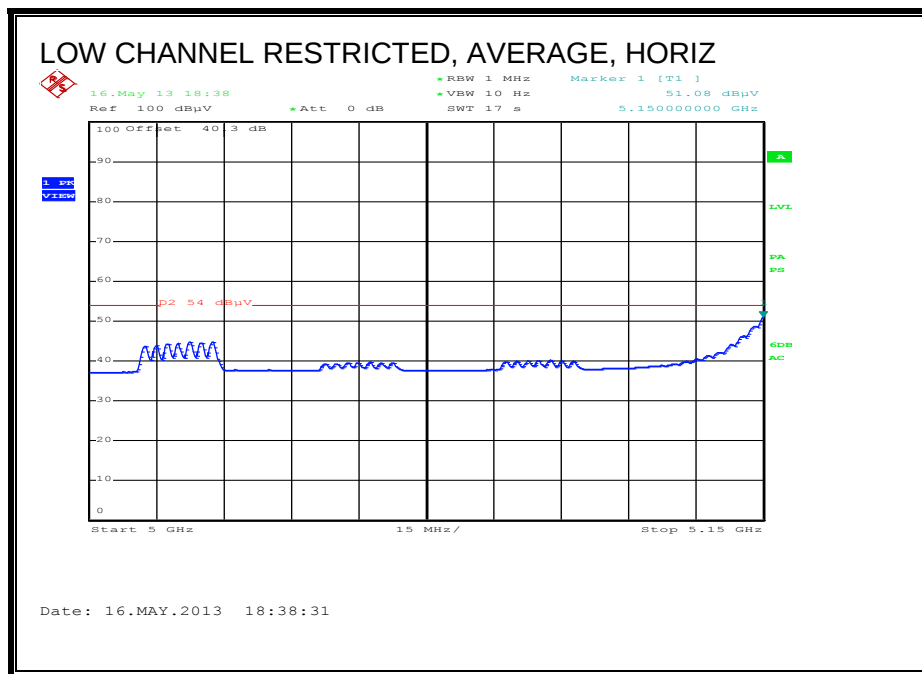
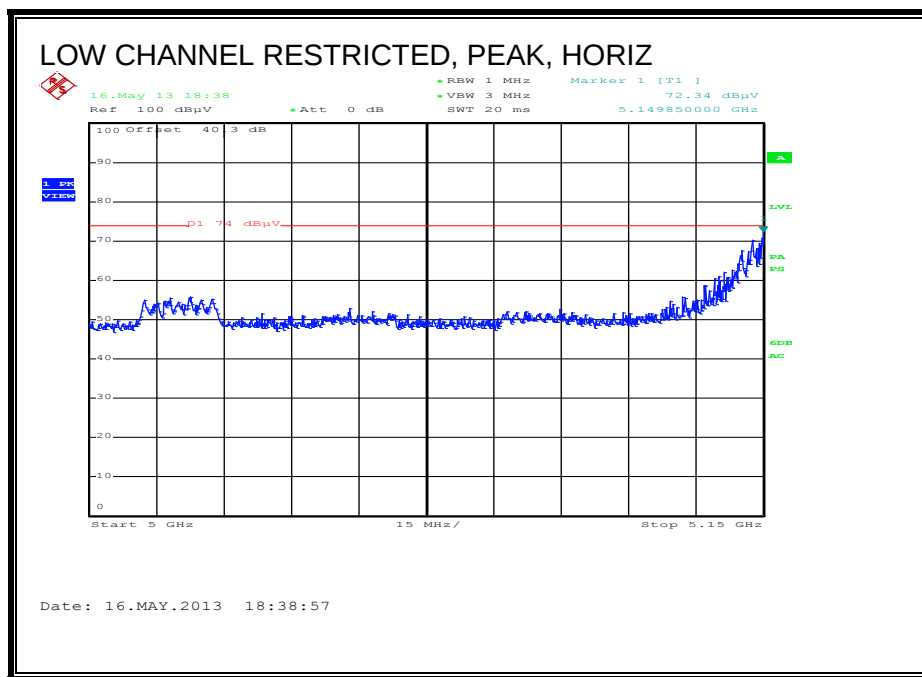


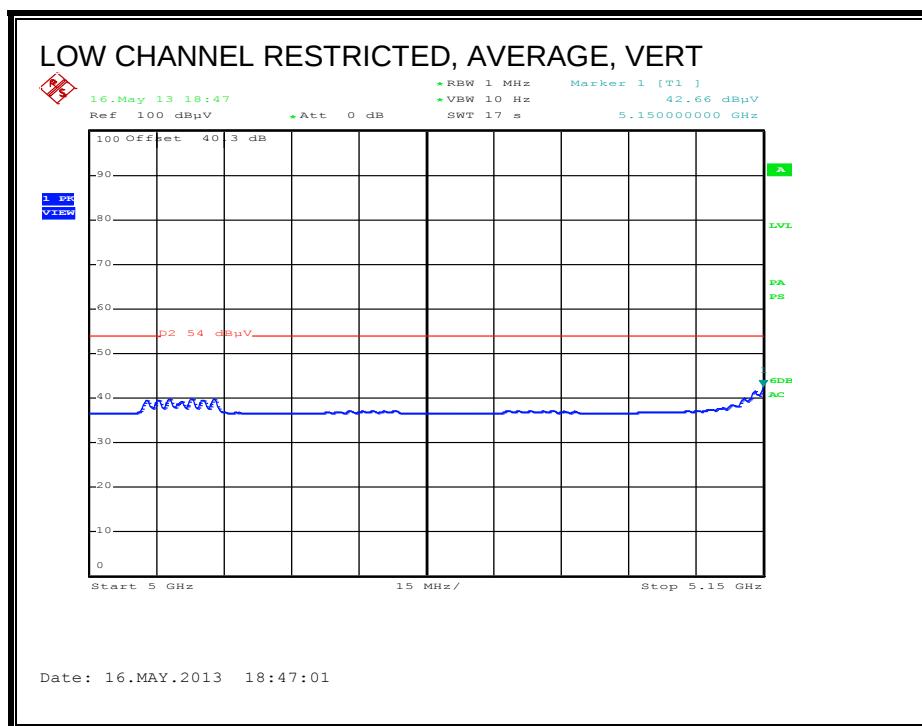
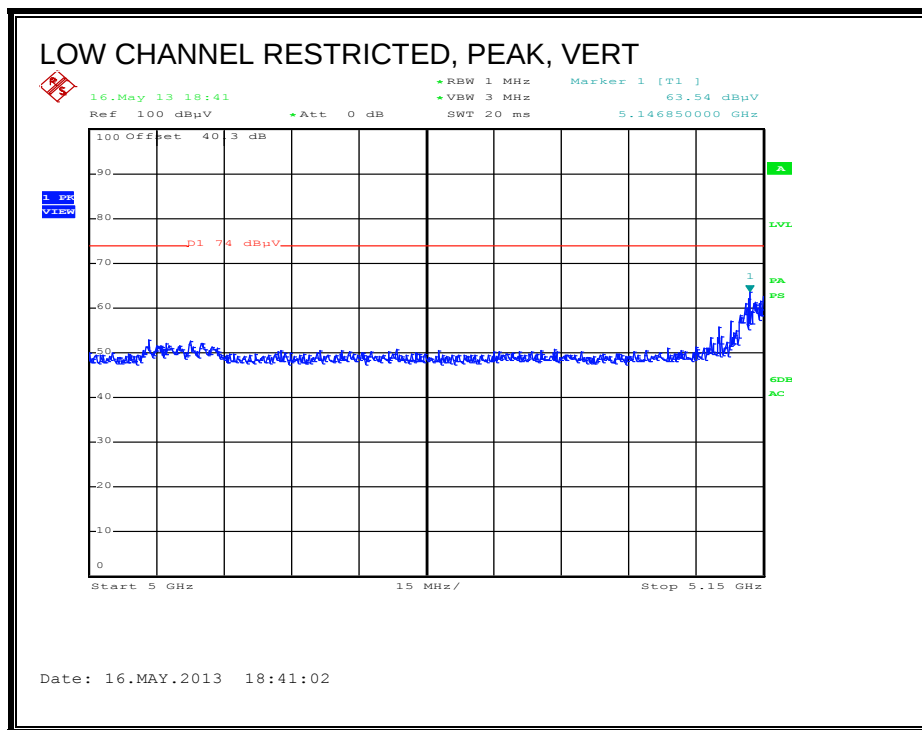
HARMONICS AND SPURIOUS EMISSIONS

Covered by worse case emissions testing of 11n HT20 CDD 2TX at power levels, per transmit chain, greater than or equal to any 1TX and 2TX mode.

9.2.2. TX ABOVE 1 GHz 802.11n HT20 CDD 2TX MODE IN THE 5.2 GHz BAND

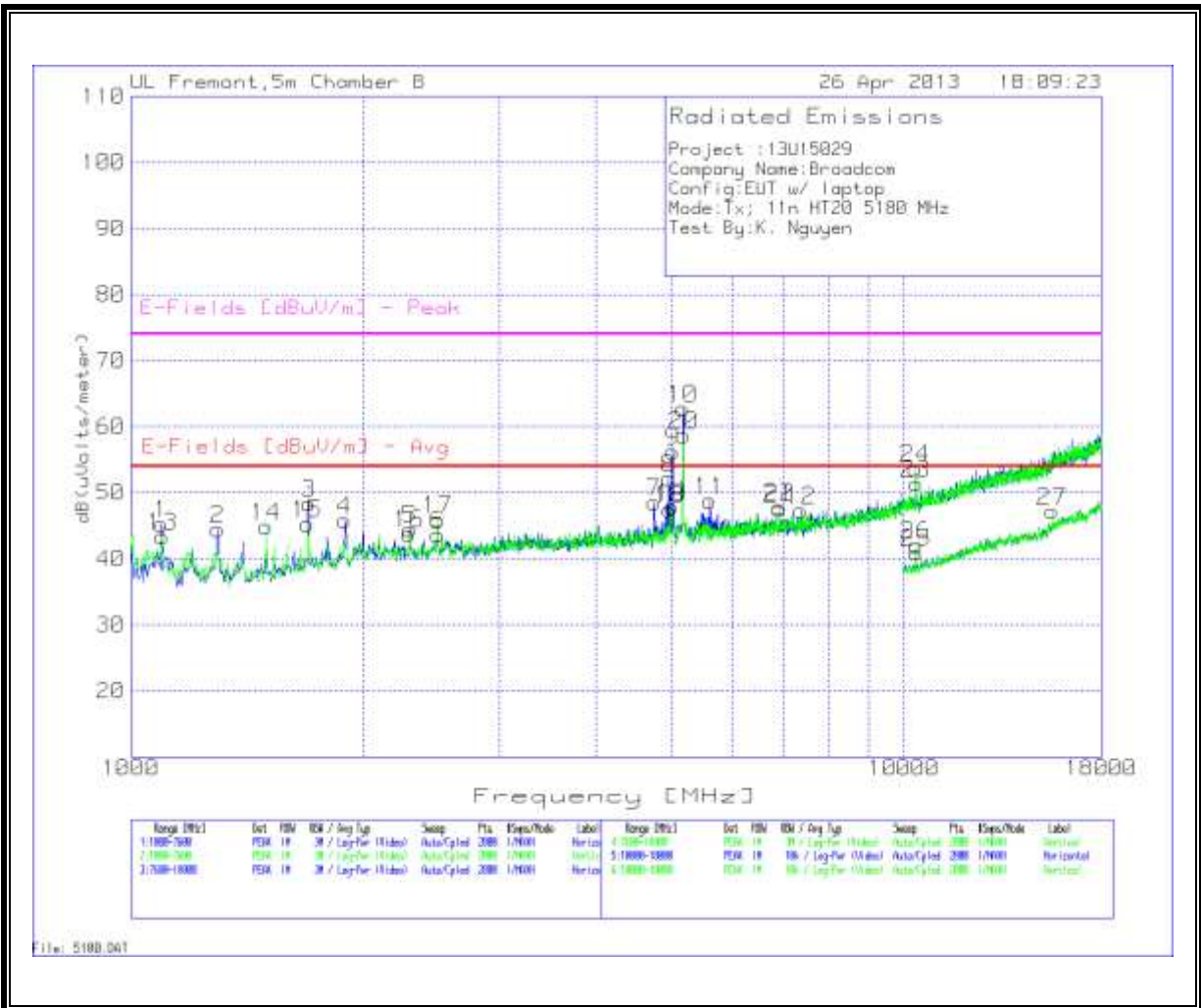
RESTRICTED BANDEDGE (LOW CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

Low Channel



Trace Markers

Horizontal 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	1095.652	50	PK	27.9	-35.9	3.3	0	45.3	54	-8.7	74	-28.7	200	Horz
2	1296.852	47.92	PK	28.5	-35.5	3.5	0	44.42	-	-	68.2	-29.58	100	Horz
4	1893.853	45.64	PK	31.1	-35	4.1	0	45.84	-	-	68.2	-28.16	200	Horz
5	2296.252	42.73	PK	32.2	-35	4.5	0.1	44.53	54	-9.47	74	-29.47	200	Horz
6	2494.153	41.34	PK	32.5	-35	4.7	0.1	43.64	54	-10.36	74	-30.36	200	Horz
7	4753.523	41.68	PK	34.7	-34.9	7	0.1	48.58	-	-	74	-25.42	200	Horz
8	4961.319	45.03	PK	34.6	-34.9	7.2	0.3	52.23	-	-	74	-21.77	200	Horz
9	5020.69	48.44	PK	34.6	-34.9	7.2	0.9	56.24	-	-	74	-17.76	200	Horz
10	5179.01	54.65	PK	34.8	-34.9	7.3	0.9	62.75	-	-	68.2	-11.25	200	Horz
11	5604.498	40.78	PK	35	-34.9	7.7	0.2	48.78	-	-	68.2	-25.22	200	Horz
12	7362.519	37.52	PK	35.9	-35	8.9	0	47.32	54	-6.68	74	-26.68	100	Horz
22	6907.346	38.28	PK	35.9	-35	8.6	0.1	47.88	-	-	68.2	-26.12	200	Horz

Vertical 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
13	1098.951	48	PK	27.9	-35.8	3.3	0	43.4	54	-10.6	74	-30.6	100	Vert
14	1498.051	48.22	PK	28.2	-35.2	3.7	0	44.92	-	-	68.2	-29.08	100	Vert
15	1692.654	46.84	PK	29.7	-35.1	3.9	0	45.34	54	-8.66	74	-28.66	200	Vert
16	2292.954	42.11	PK	32.2	-35	4.5	0	43.81	54	-10.19	74	-30.19	200	Vert
17	2494.153	43.64	PK	32.5	-35	4.7	0.1	45.94	54	-8.06	74	-28.06	200	Vert
18	4967.916	40.13	PK	34.6	-34.9	7.2	0.4	47.43	54	-6.57	74	-26.57	200	Vert
19	5017.391	40.04	PK	34.6	-34.9	7.2	0.9	47.84	54	-6.16	74	-26.16	100	Vert
20	5185.607	50.55	PK	34.8	-34.9	7.4	0.9	58.75	-	-	68.2	-15.25	200	Vert
21	6907.346	37.96	PK	35.9	-35	8.6	0.1	47.56	-	-	68.2	-26.44	200	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
23	10359.82	36.95	PK	38.1	-34.5	10.7	0.1	51.35	54	-2.65	74	-22.65	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
24	10354.623	39.32	PK	38.1	-34.5	10.7	0.1	53.72	54	-0.28	74	-20.28	200	Vert

Horizontal 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
25	10363.818	26.45	PK	38.1	-34.5	10.7	0.2	40.95	54	-13.05	74	-33.05	100	Horz

Radiated Emissions

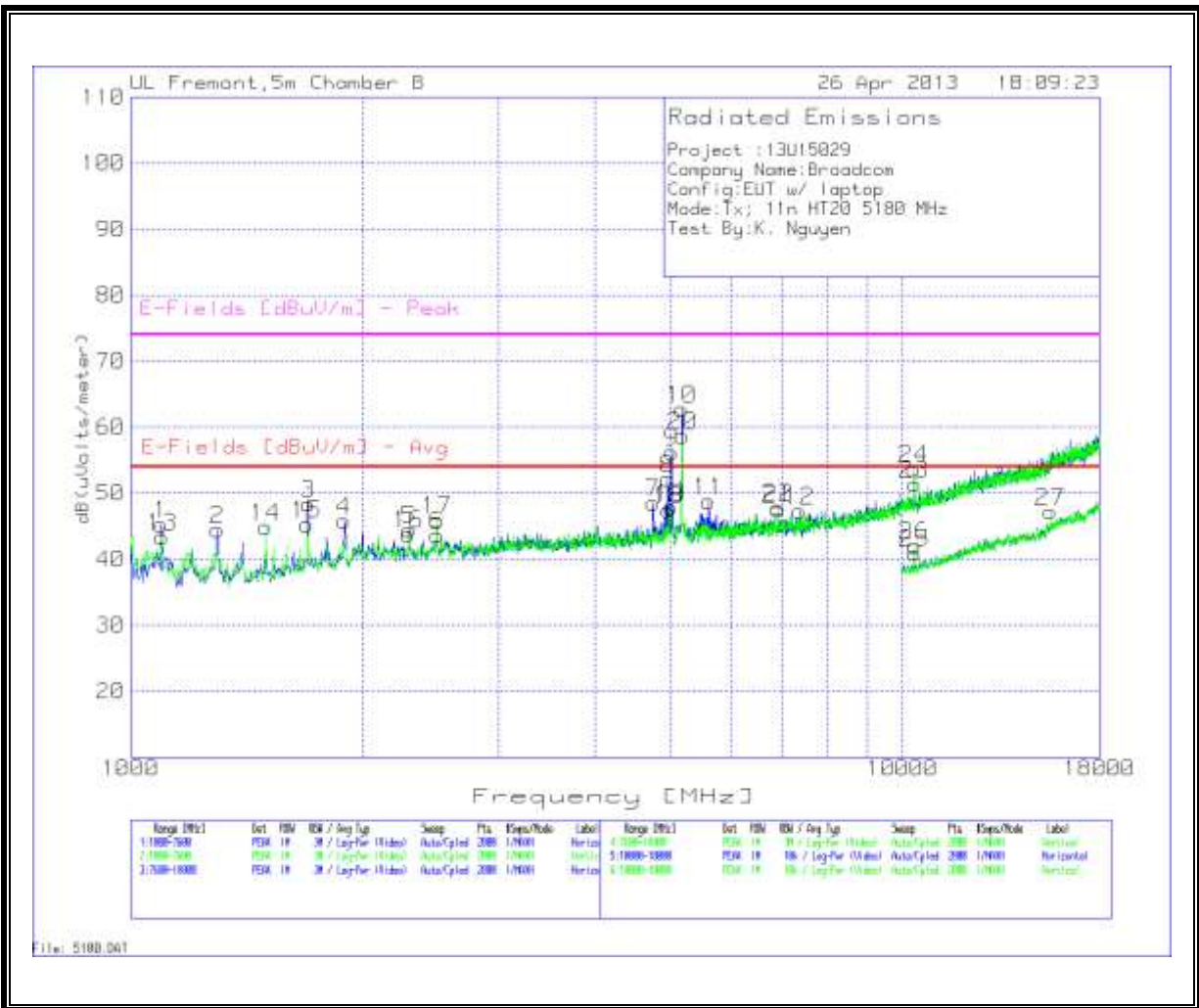
Horizontal 1000 - 7600MHz

Frequency (MHz)	Meter Reading	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4749.56	31.71	VB1	34.7	-34.9	7	0.1	38.61	54	-15.39	-	-	118	152	Horz
4962.58	33.25	VB1	34.6	-34.9	7.2	0.3	40.45	54	-13.55	-	-	118	152	Horz
5006.69	26.54	VB1	34.6	-34.9	7.2	0.8	34.24	54	-19.76	-	-	307	192	Horz

VB1 - KDB 789033 v01r02 Method: VB Alternative Reduced Video

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

Mid Channel



Trace Markers

Horizontal 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	1095.652	52.32	PK	27.9	-38.7	3.1	0	44.62	54	-9.38	74	-29.38	200	Horz
2	1296.852	48.41	PK	30.3	-38.2	3.3	0	43.81	-	-	68.2	-30.19	200	Horz
3	1692.654	50.76	PK	29.3	-37.5	3.7	0	46.26	54	-7.74	74	-27.74	100	Horz
4	1893.853	49.49	PK	31.6	-37.2	3.9	0	47.79	-	-	68.2	-26.21	200	Horz
5	5033.883	48.59	PK	33.9	-35.6	6.9	0.9	54.69	54	0.69	74	-19.31	200	Horz
6	6933.733	41.14	PK	35.4	-35.6	8.4	0	49.34	-	-	68.2	-24.66	200	Horz

Vertical 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	1000	57.53	PK	28.1	-38.9	3	0	49.73	54	-4.27	74	-24.27	100	Vert
8	1293.553	50.73	PK	30.2	-38.2	3.3	0	46.03	-	-	68.2	-27.97	200	Vert
9	1494.753	52.35	PK	28.9	-37.8	3.5	0	46.95	-	-	68.2	-27.05	100	Vert
10	1692.654	49.57	PK	29.3	-37.5	3.7	0	45.07	54	-8.93	74	-28.93	100	Vert
11	1930.135	47.29	PK	31.8	-37.2	4	0	45.89	-	-	68.2	-28.11	100	Vert
12	5202.099	44.05	PK	34.2	-35.5	7.1	0.9	50.75	-	-	68.2	-23.25	200	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
13	10915.942	34.53	PK	37.9	-35.6	10.9	0.2	47.93	54	-6.07	74	-26.07	100	Horz
14	12890.955	35.09	PK	39.1	-34.3	11.9	0.2	51.99	-	-	68.2	-22.01	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
15	10401.399	36.24	PK	37.4	-36	10.6	0.2	48.44	-	-	68.2	-25.56	100	Vert
16	11939.83	35.57	PK	38.7	-35.7	11.4	0.3	50.27	54	-3.73	74	-23.73	100	Vert

Vertical 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
18	11791.104	24.85	PK	38.6	-35.7	11.3	0.3	39.35	54	-14.65	-	-	200	Vert

Radiated Emissions

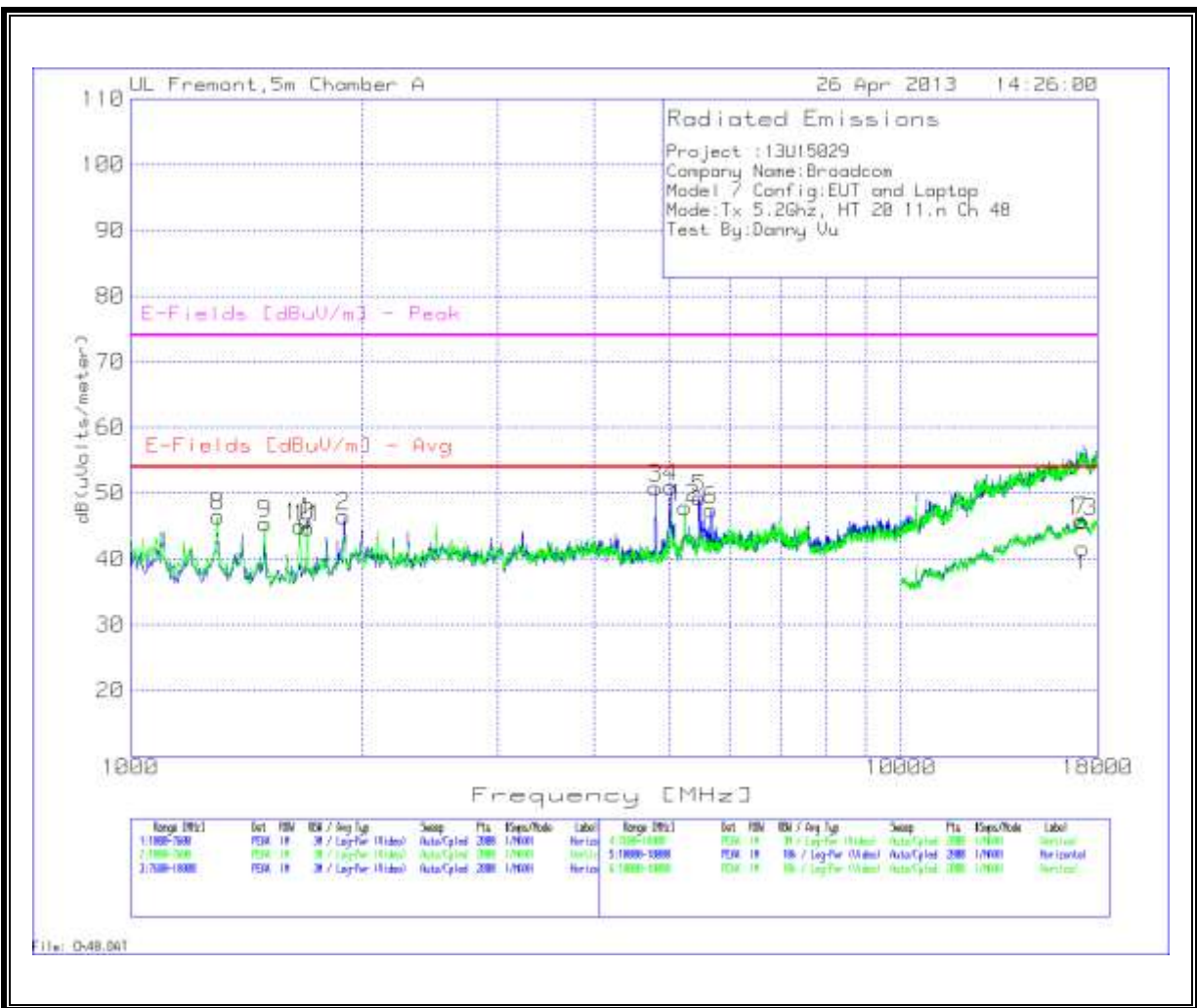
Horizontal 1000 - 18000MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T160 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5033.883	33.17	VB1	33.9	-35.6	6.9	0.2	38.57	53.97	-15.4	74	-35.43	144	100	Horz

VB1 - KDB 789033 v01r02 Method: VB Alternative Reduced Video

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

High Channel



Trace Markers

Horizontal 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	1692.654	50.36	PK	29.3	-37.5	3.7	0	45.86	53.97	-8.11	74	-28.14	100	Horz
2	1890.555	48.16	PK	31.6	-37.2	3.9	0	46.46	-	-	68.2	-27.54	100	Horz
3	4802.999	45.87	PK	33.9	-35.7	6.7	0.1	50.87	53.97	-3.1	74	-23.13	200	Horz
4	5027.286	44.88	PK	33.9	-35.6	6.9	0.9	50.98	53.97	-2.99	74	-23.02	200	Horz
5	5479.16	42.19	PK	34.4	-35.5	7.3	0.9	49.29	-	-	68.2	-24.71	200	Horz
6	5670.465	40.81	PK	34.5	-35.5	7.4	0.2	47.41	-	-	68.2	-26.59	200	Horz

Vertical 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	1300.15	51.12	PK	30.3	-38.2	3.3	0	46.52	53.97	-7.45	74	-27.48	100	Vert
9	1494.753	50.82	PK	28.9	-37.8	3.5	0	45.42	-	-	68.2	-28.58	200	Vert
10	1659.67	49.8	PK	29	-37.5	3.7	0	45	-	-	68.2	-29	200	Vert
11	1699.25	49.15	PK	29.4	-37.5	3.7	0	44.75	53.97	-9.22	74	-29.25	200	Vert
12	5248.276	41.11	PK	34.2	-35.5	7.1	0.9	47.81	-	-	68.2	-26.19	200	Vert

Horizontal 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	17112.444	24.81	PK	40.9	-34.2	14	0.3	45.81	53.97	-8.16	74	-28.19	200	Horz

Vertical 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
13	17196.402	24.69	PK	40.9	-34.3	14.1	0.3	45.69	53.97	-8.28	74	-28.31	100	Vert

Radiated Emissions

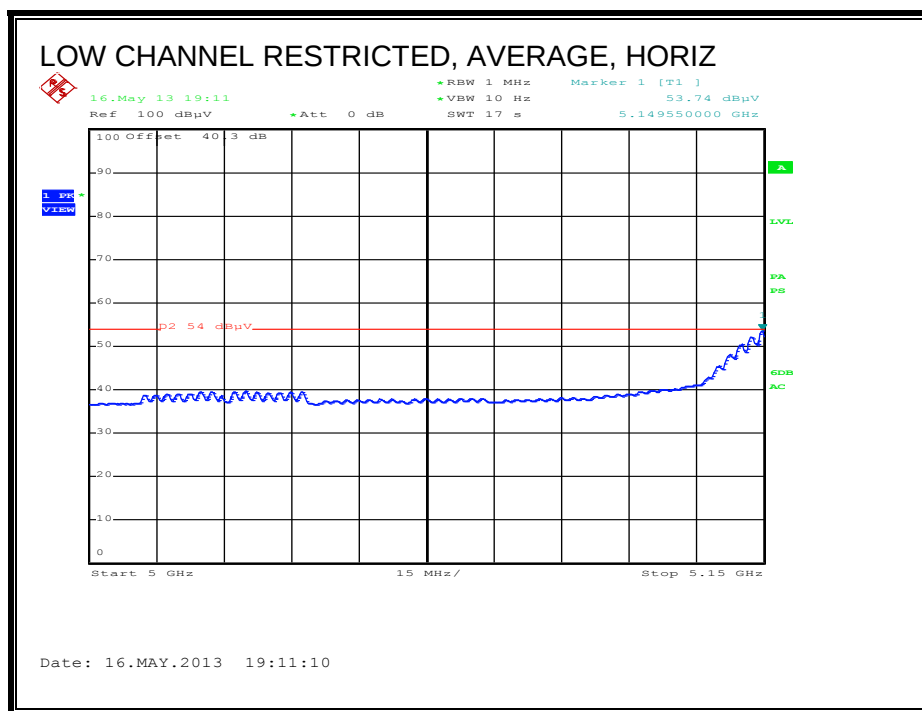
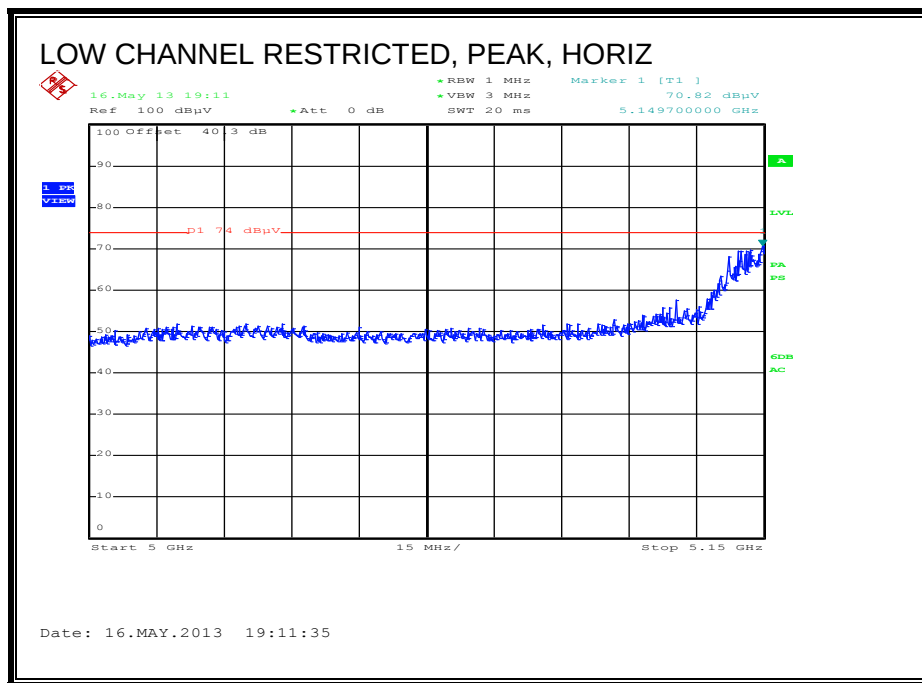
Horizontal 1000 - 18000MHz

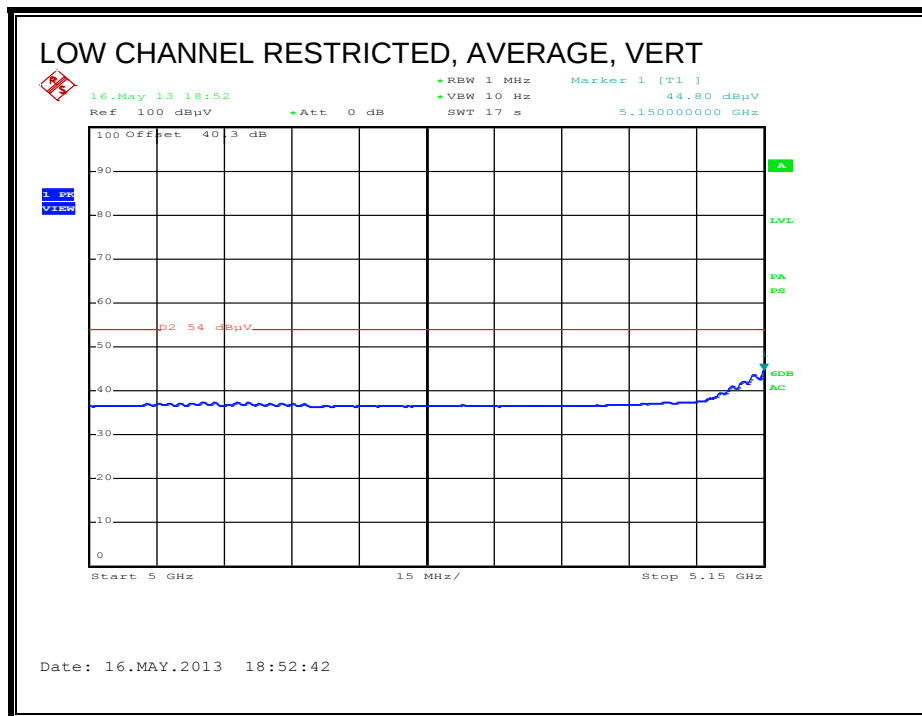
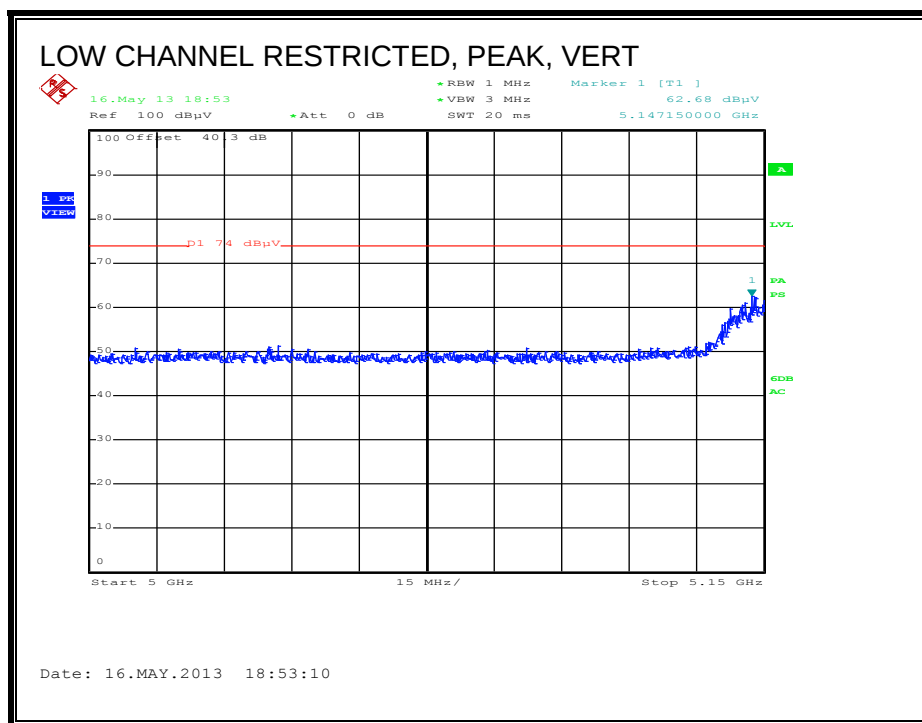
Frequency (MHz)	Meter Reading	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T160 BRP [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4802.999	27.44	VB1	33.9	-35.7	6.7	0.2	32.54	53.97	-21.43	-	-	327	100	Horz
5027.286	31.27	VB1	33.9	-35.6	6.9	0.2	36.67	53.97	-17.3	-	-	327	100	Horz

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

9.2.3. TX ABOVE 1 GHz 802.11n HT40 CDD 2TX MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)





Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3.728	40.76	PK	33.4	-36.2	5.8	0	43.76	53.97	-10.21	74	-30.24	0-360	200	H
5.034	47.28	PK	33.9	-35.6	6.9	0.9	53.38	53.97	-0.59	74	-20.62	0-360	200	H
5.382	47.76	PK	34.2	-35.5	7	0.9	54.36	-	-	68.2	-13.84	0-360	100	H
6.056	40.38	PK	35.3	-35.6	7.7	0.1	47.68	-	-	68.2	-20.52	0-360	200	H
6.921	41.46	PK	35.4	-35.6	8.4	0.1	49.76	-	-	68.2	-18.44	0-360	200	H
1.198	60.3	PK	29.5	-38.4	3.2	0	54.6	-	-	74	-19.4	0-360	200	H
3.728	43.72	PK	33.4	-36.2	5.8	0	46.72	53.97	-7.25	74	-27.28	0-360	200	V
3.992	41.14	PK	33.8	-36	6.1	0.1	45.34	53.97	-8.83	74	-28.86	0-360	200	V
4.262	41.12	PK	33.6	-35.9	6.3	0.1	45.22	53.97	-8.75	74	-28.78	0-360	200	V
5.389	47.93	PK	34.2	-35.5	7	0.9	54.53	-	-	68.2	-13.67	0-360	200	V
6.921	39.96	PK	35.4	-35.6	8.4	0.1	48.26	-	-	68.2	-19.94	0-360	200	V

PK - Peak detector

Frequency (GHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.381	39.37	PK	37.4	-36.1	10.6	0.3	51.57	53.97	-2.4	74	-22.43	0-360	100	H
10.385	38.96	PK	37.4	-36.1	10.6	0.2	51.06	53.97	-2.91	74	-22.94	0-360	200	V
10.388	30.45	PK	37.4	-36.1	10.6	0.3	42.65	53.97	-11.32	-	-	0-360	100	H
10.372	30.87	PK	37.4	-36.1	10.6	0.3	43.07	53.97	-10.9	-	-	0-360	100	V

PK - Peak detector

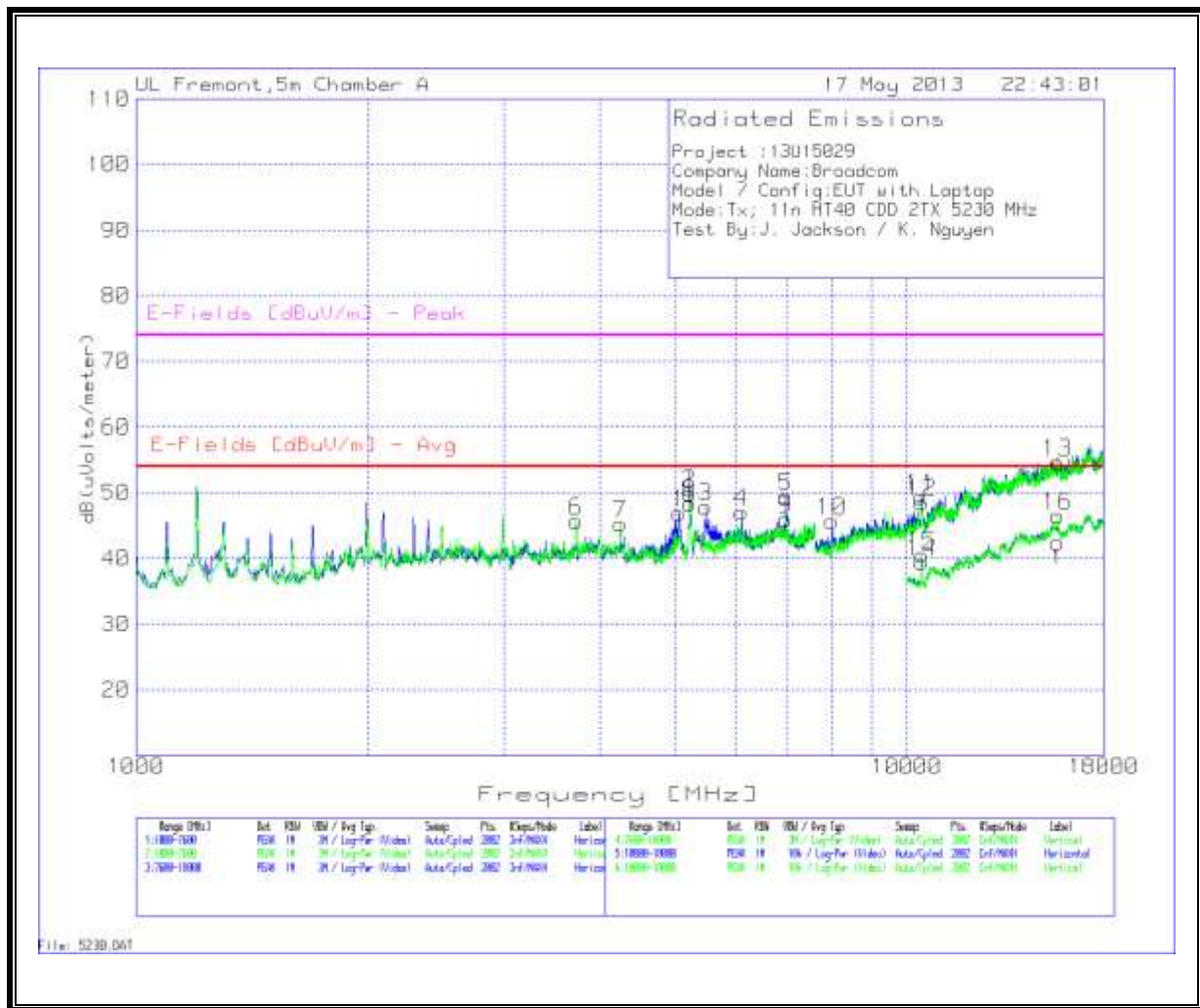
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.03	38.26	VB1	33.9	-35.6	6.9	0.9	44.36	53.97	-9.61	-	-	69	165	H
1.198	42.97	VB1	29.5	-38.4	3.2	0	37.27	53.97	-16.7	-	-	0-360	200	H

VB1 - KDB 789033 v01r02 Method: VB Alternative Reduced Video

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

Mid Channel



Trace Markers

Horizontal 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5061.919	40.69	PK	34	-35.6	6.9	0.9	46.89	53.97	-7.08	74	-27.11	200	Horz
2	5235.082	43.17	PK	34.2	-35.5	7.1	0.9	49.87	-	-	68.2	-18.33	200	Horz
3	5489.055	40.75	PK	34.4	-35.5	7.3	0.9	47.85	-	-	68.2	-20.35	200	Horz
4	6102.549	39.44	PK	35.3	-35.6	7.8	0.1	47.04	-	-	68.2	-21.16	100	Horz
5	6973.313	41.02	PK	35.4	-35.6	8.5	0.1	49.42	-	-	68.2	-18.78	100	Horz

Vertical 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	3727.736	42.72	PK	33.4	-36.2	5.8	0	45.72	53.97	-8.25	74	-28.28	200	Vert
7	4248.876	41.26	PK	33.5	-35.9	6.3	0.1	45.26	53.97	-8.71	74	-28.74	100	Vert
8	5231.784	41.75	PK	34.2	-35.5	7.1	0.9	48.45	-	-	68.2	-19.75	200	Vert
9	6973.313	37.61	PK	35.4	-35.6	8.5	0.1	46.01	-	-	68.2	-22.19	200	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
10	8005.397	36.36	PK	35.5	-35.9	9.2	0.5	45.66	-	-	68.2	-22.54	100	Horz
11	10437.781	37.18	PK	37.4	-36	10.6	0.2	49.38	-	-	68.2	-18.82	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
12	10453.373	36.2	PK	37.5	-36	10.6	0.3	48.6	-	-	68.2	-19.6	100	Vert
13	15692.354	35.79	PK	40.4	-35.2	13.3	0.4	54.69	-	-	74	-19.31	100	Vert

Horizontal 10000 - 18000MHz

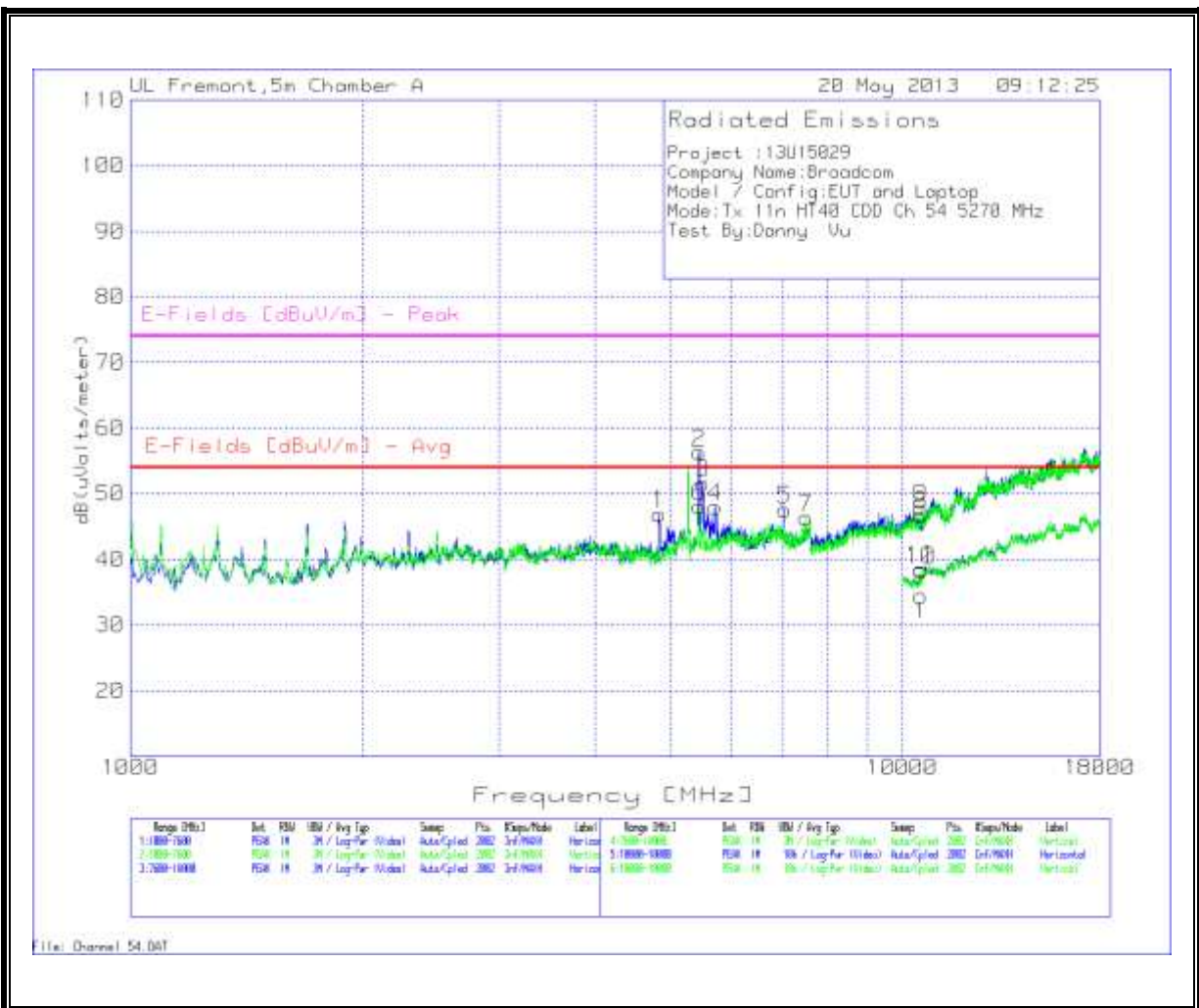
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
14	10455.772	27.16	PK	37.5	-36	10.6	0.2	39.46	-	-	68.2	-28.74	100	Horz

Vertical 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
15	10459.77	28.2	PK	37.5	-36	10.6	0.2	40.5	-	-	68.2	-27.7	100	Vert
16	15689.155	27.67	PK	40.4	-35.2	13.3	0.3	46.47	53.97	-7.5	74	-27.53	100	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

High Channel

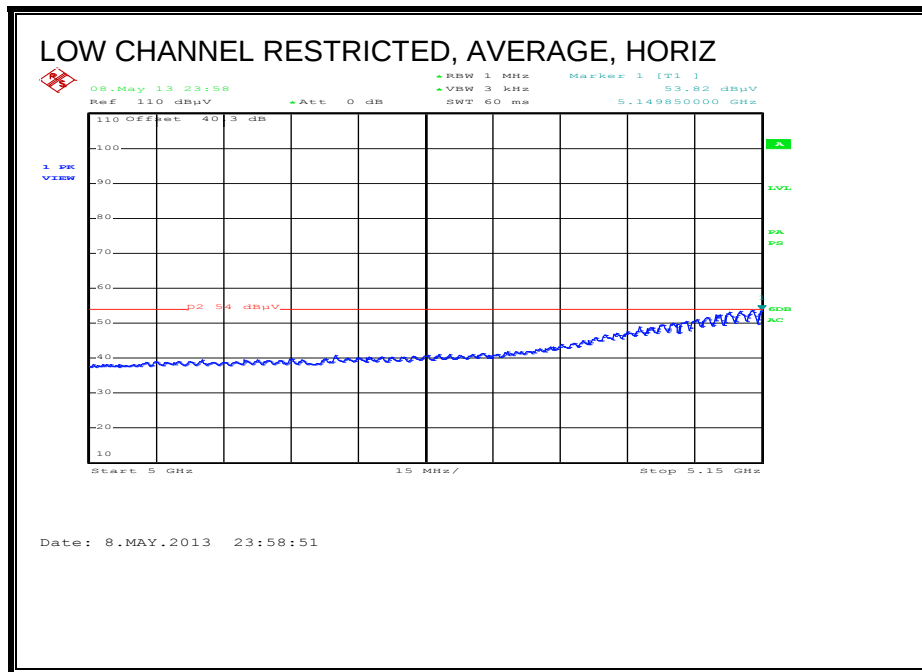
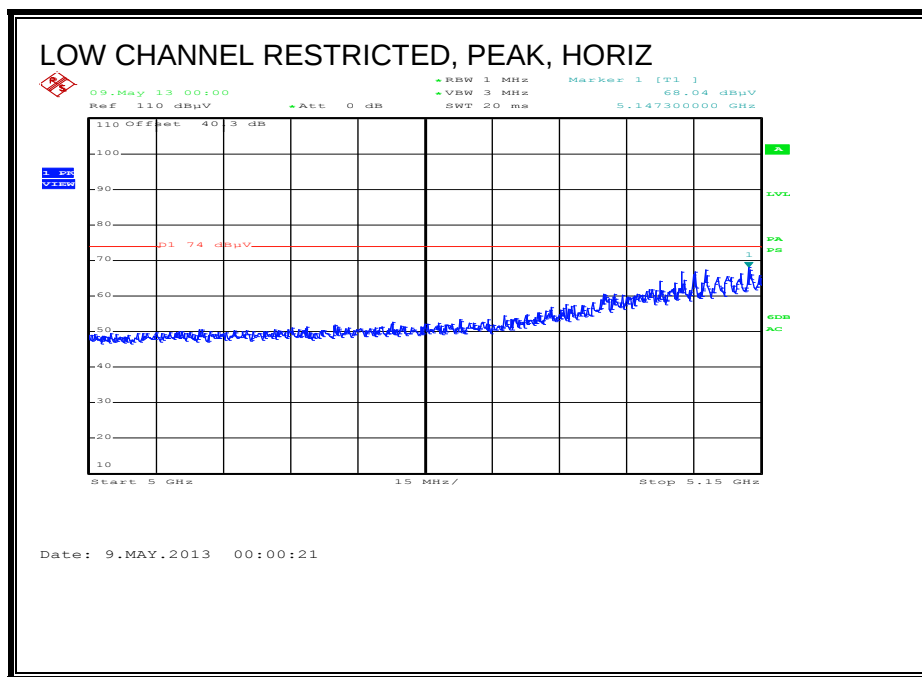


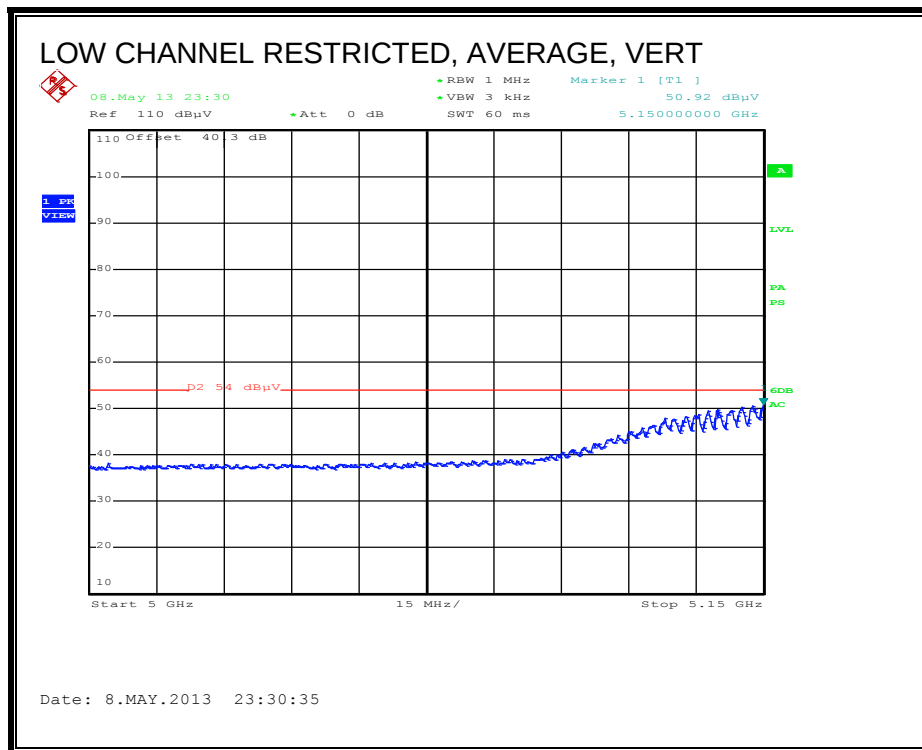
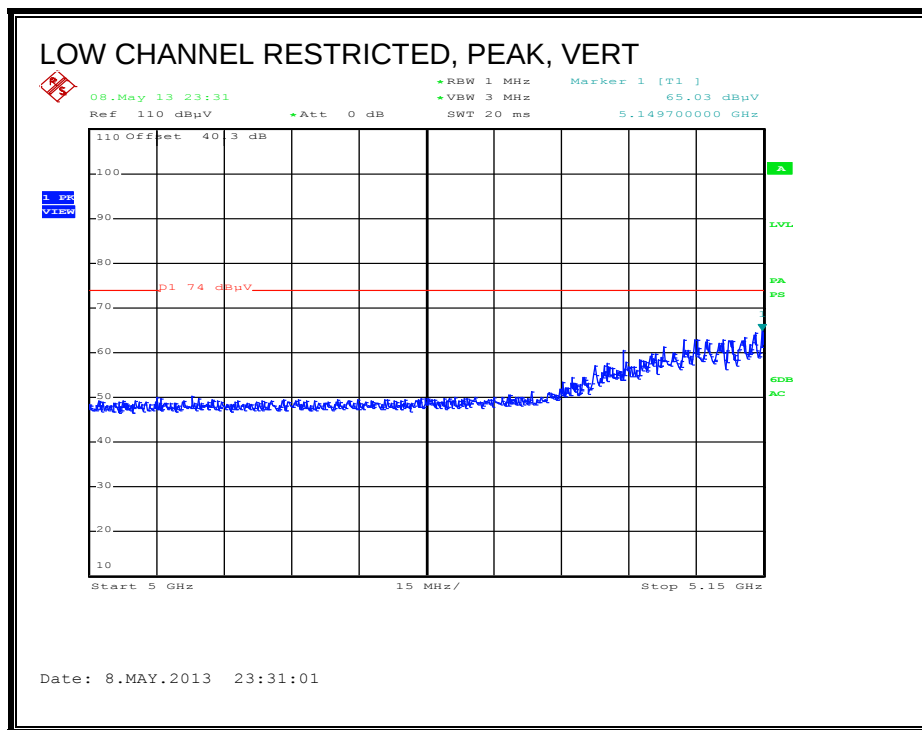
Trace Markers															
Horizontal 1000 - 7600MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	4842.579	41.78	PK	33.9	-35.7	6.8	0.1	0	46.88	53.97	-7.09	74	-27.12	200	Horz
2	5449.475	49.22	PK	34.4	-35.5	7.3	0.9	0	56.32	53.97	2.35	74	-17.68	200	Horz
3	5522.039	44.77	PK	34.4	-35.5	7.3	0.7	0	51.67	-	-	68.2	-16.53	200	Horz
4	5719.94	41.28	PK	34.6	-35.5	7.5	0.1	0	47.98	-	-	68.2	-20.22	200	Horz
5	7039.28	39.35	PK	35.4	-35.7	8.5	0.1	0	47.65	-	-	68.2	-20.55	100	Horz
Vertical 1000 - 7600MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	5449.475	41.02	PK	34.4	-35.5	7.3	0.9	0	48.12	53.97	-5.85	74	-25.88	200	Vert
7	7494.453	37.88	PK	35.4	-35.8	8.8	0.1	0	46.38	53.97	-7.59	74	-27.62	100	Vert
Horizontal 7600 - 18000MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	10557.321	34.02	PK	37.7	-35.9	10.7	0.2	0	46.72	-	-	68.2	-21.48	200	Horz
Vertical 7600 - 18000MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
9	10557.321	35.21	PK	37.7	-35.9	10.7	0.2	0	47.91	-	-	68.2	-20.29	200	Vert
Horizontal 10000 - 18000MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
10	10559.72	25.73	PK	37.7	-35.9	10.7	0.2	0	38.43	-	-	68.2	-29.77	100	Horz
Vertical 10000 - 18000MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
11	10563.718	25.77	PK	37.7	-35.9	10.7	0.2	0	38.47	-	-	68.2	-29.73	100	Vert
Radiated Emissions															
Horizontal 1000 - 7600MHz															
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
5449.475	38.77	VB1	34.4	-35.5	7.2	0.9	0.1	45.87	53.97	-8.1	-	-	150	204	Horz

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

9.2.4. TX ABOVE 1 GHz 802.11n HT80 CDD 2TX MODE IN THE 5.2 GHz BAND

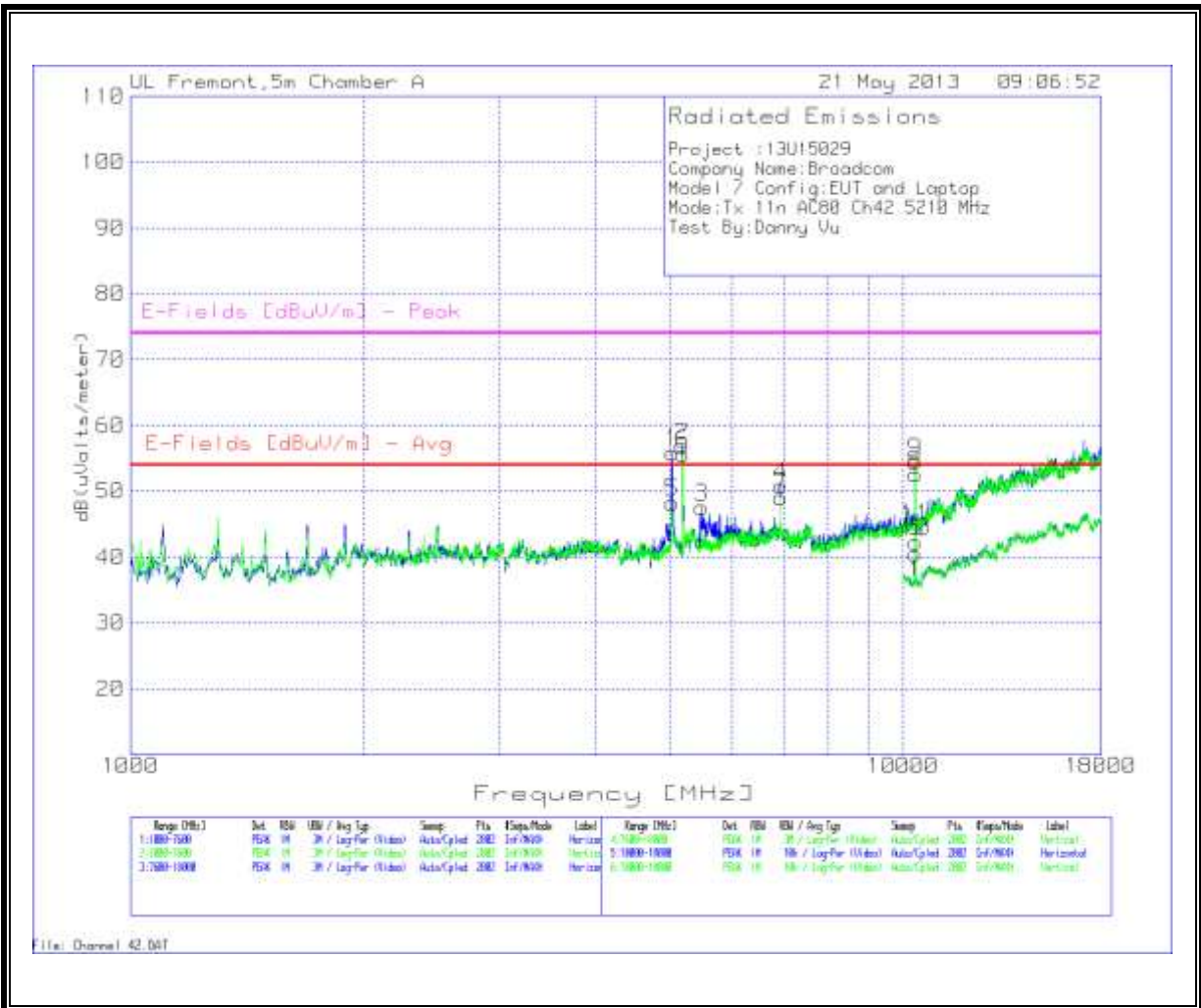
RESTRICTED BANDEDGE (LOW CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

Low Channel



Trace Markers

Horizontal 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5027.286	49.79	PK	33.9	-35.6	6.9	0.9	0	55.89	53.97	1.92	74	-18.11	200	Horz
2	5179.01	50.27	PK	34.2	-35.5	7	0.9	0	56.87	-	-	68.2	-11.33	200	Horz
3	5492.354	40.55	PK	34.4	-35.5	7.3	0.9	0	47.65	-	-	68.2	-20.55	200	Horz
4	6946.927	42.64	PK	35.4	-35.6	8.4	0	0	50.84	-	-	68.2	-17.36	200	Horz

Vertical 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
5	5027.286	42.22	PK	33.9	-35.6	6.9	0.9	0	48.32	53.97	-5.65	74	-25.68	200	Vert
6	5182.309	49.1	PK	34.2	-35.5	7	0.9	0	55.7	-	-	68.2	-12.5	200	Vert
7	6946.927	40.83	PK	35.4	-35.6	8.4	0	0	49.03	-	-	68.2	-19.17	100	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	10365.017	40.48	PK	37.4	-36.1	10.6	0.2	0	52.58	-	-	68.2	-15.62	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
9	10365.017	42.34	PK	37.4	-36.1	10.6	0.2	0	54.44	-	-	68.2	-13.76	100	Vert

Horizontal 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
10	10359.82	30.33	PK	37.4	-36.1	10.6	0.1	0	42.33	-	-	68.2	-25.87	100	Horz

Vertical 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
11	10359.82	32.55	PK	37.4	-36.1	10.6	0.1	0	44.55	-	-	68.2	-23.65	200	Vert

Radiated Emissions

Horizontal 1000 - 7600MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
5019.73	41.78	VB1	33.9	-35.6	6.9	0.9	0	48.08	53.97	-5.89	-	-	289	159	Horz
6881.68	26.57	VB1	35.4	-35.6	8.4	0	0	34.97	53.97	-19	-	-	52	104	Horz

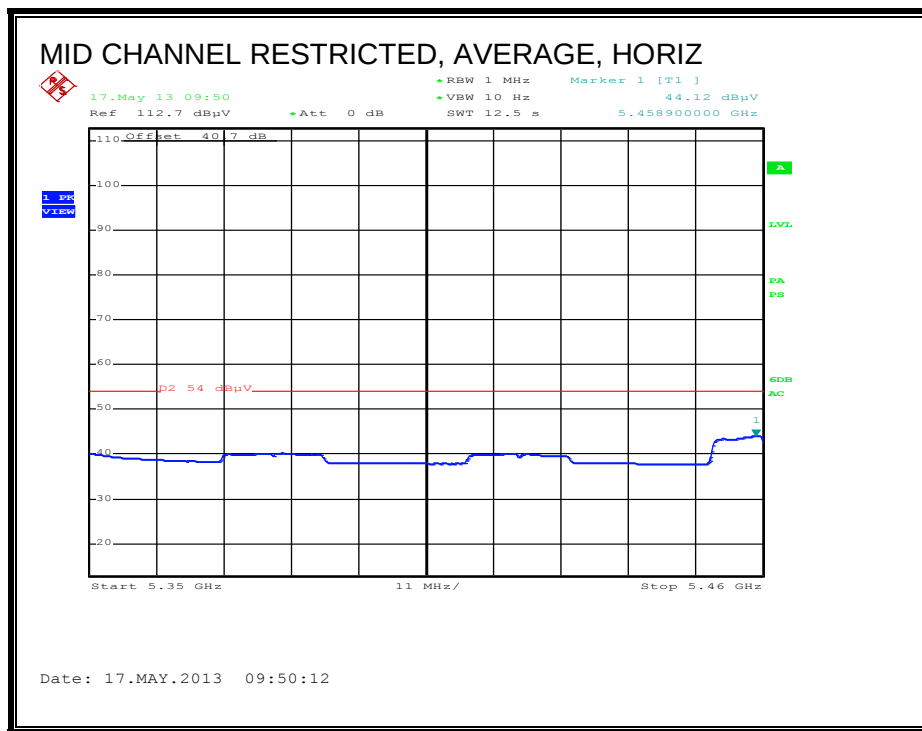
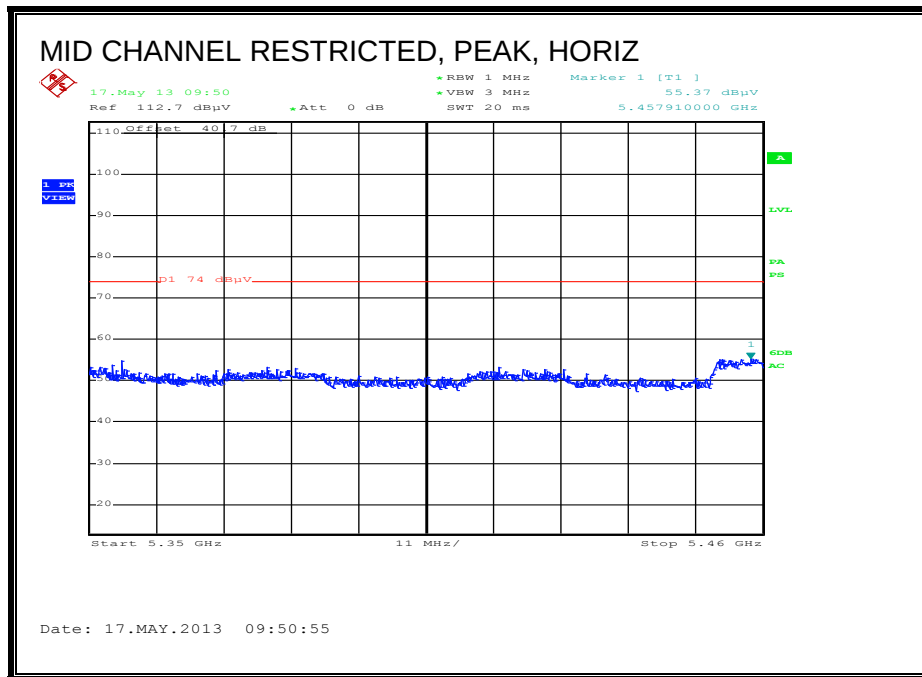
Vertical 1000 - 7600MHz

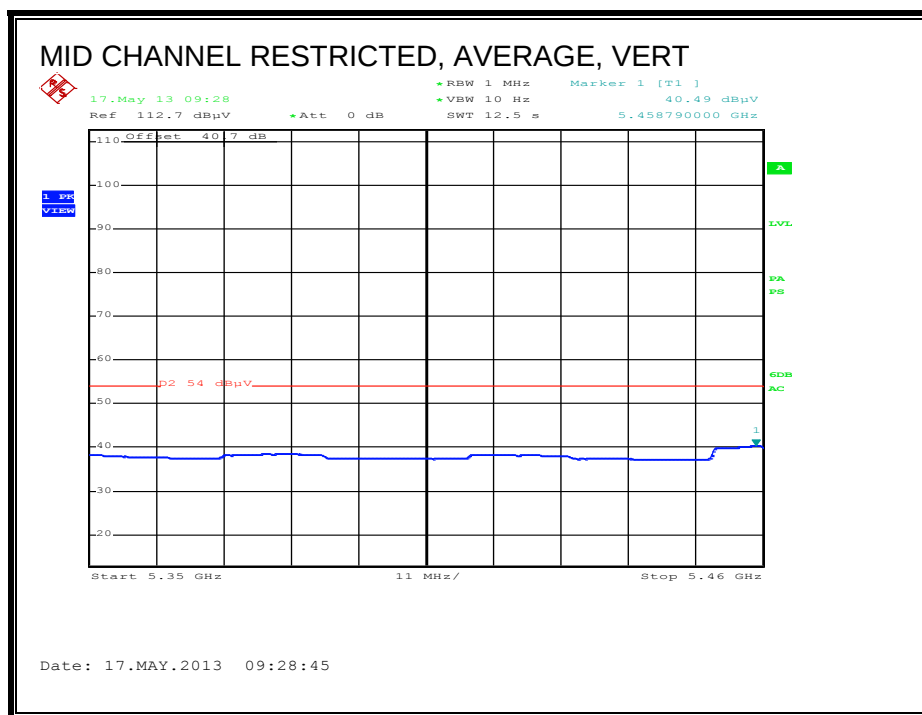
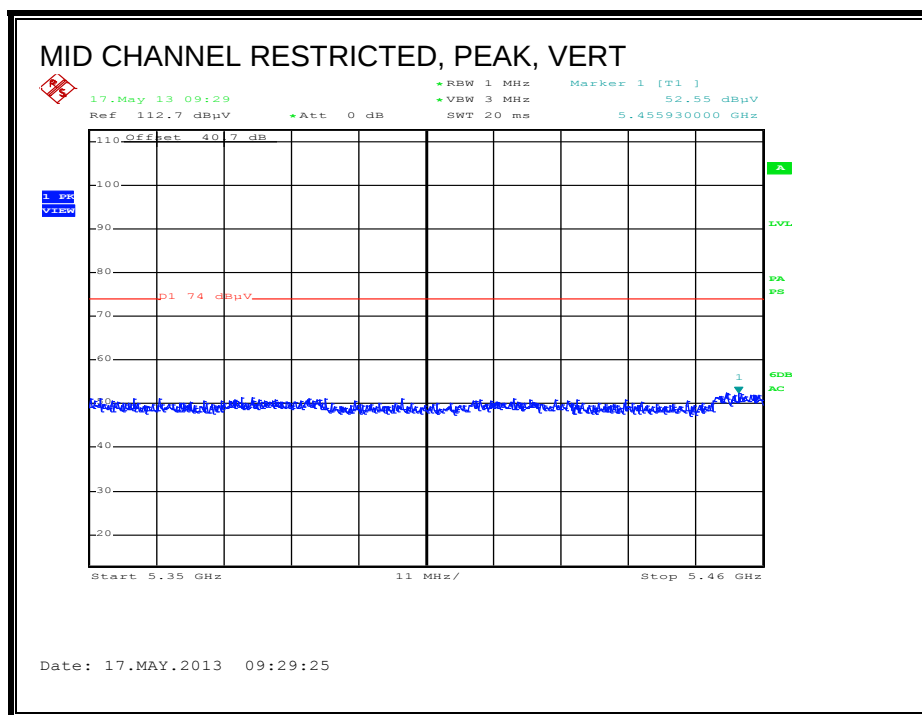
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
5016.83	33.82	VB1	33.9	-35.6	6.9	0.9	0	40.12	53.97	-13.85	-	-	290	271	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

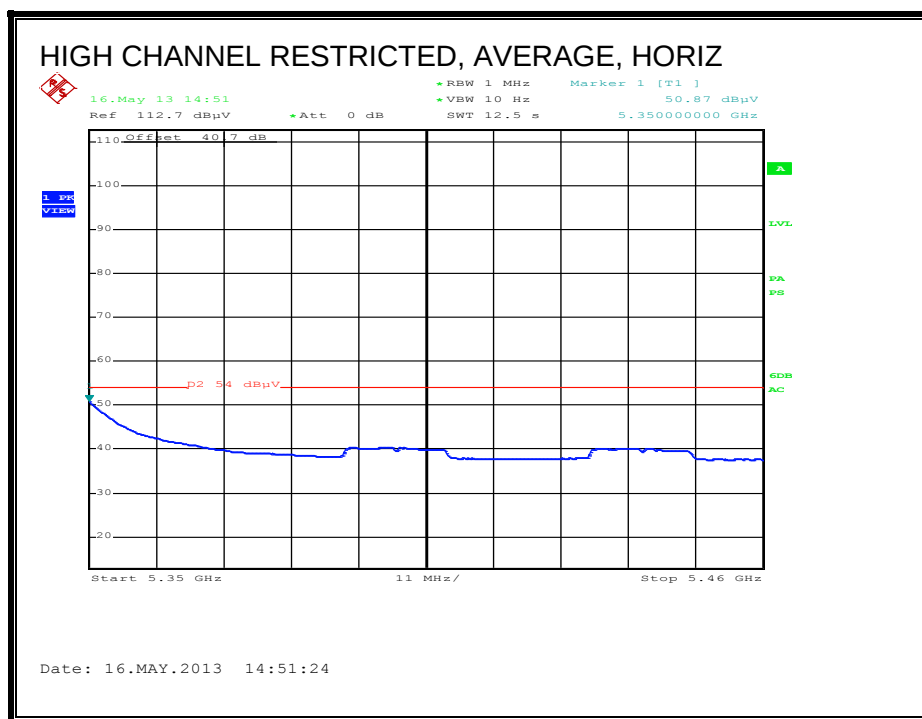
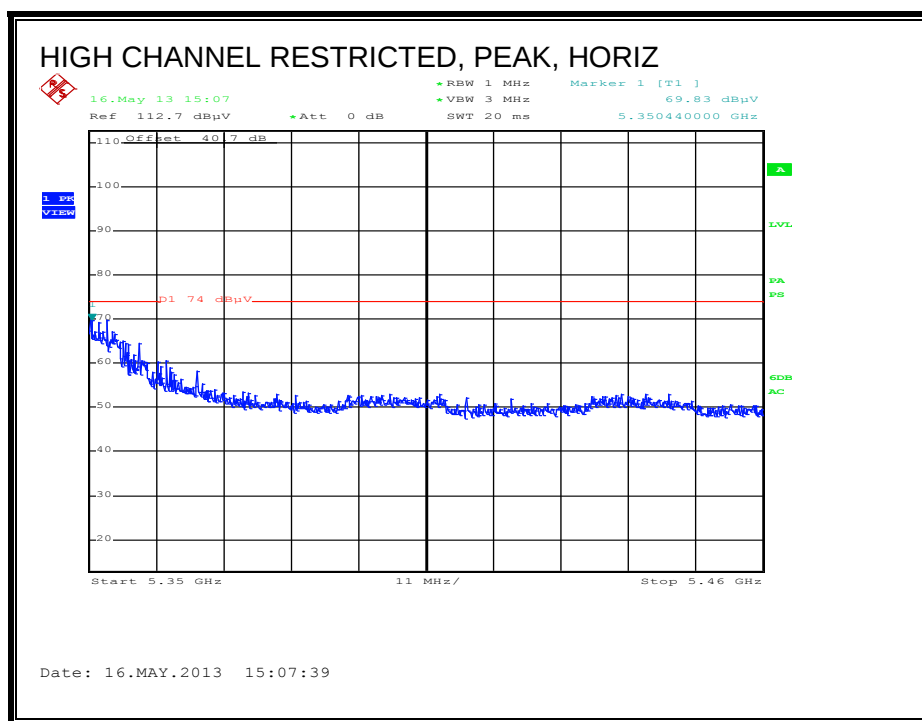
9.2.5. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND

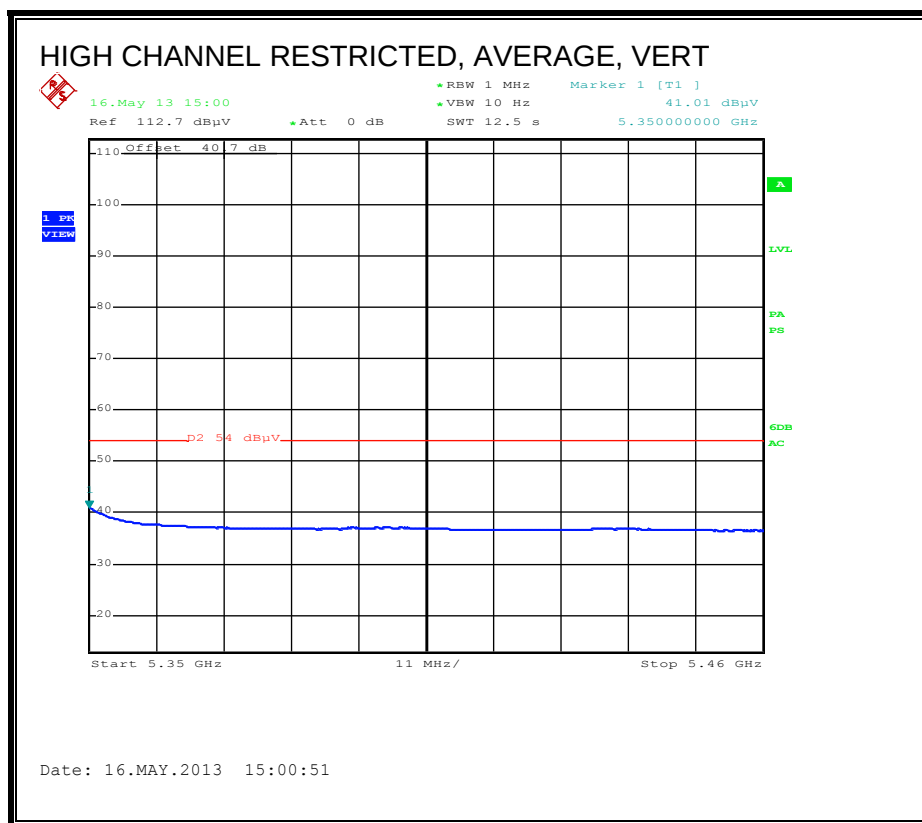
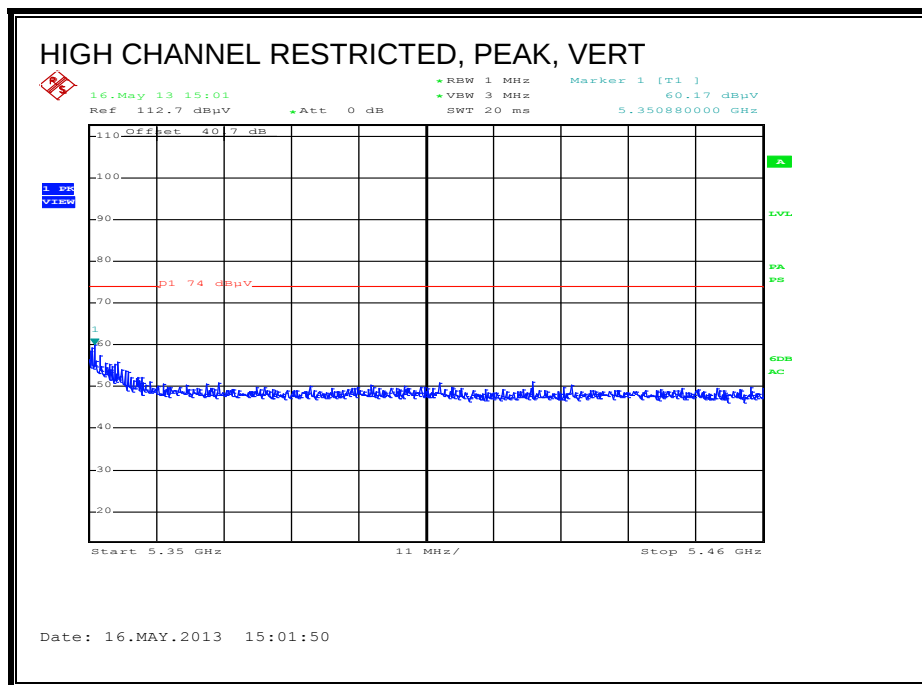
RESTRICTED BANDEDGE (MID CHANNEL)





RESTRICTED BANDEDGE (HIGH CHANNEL)



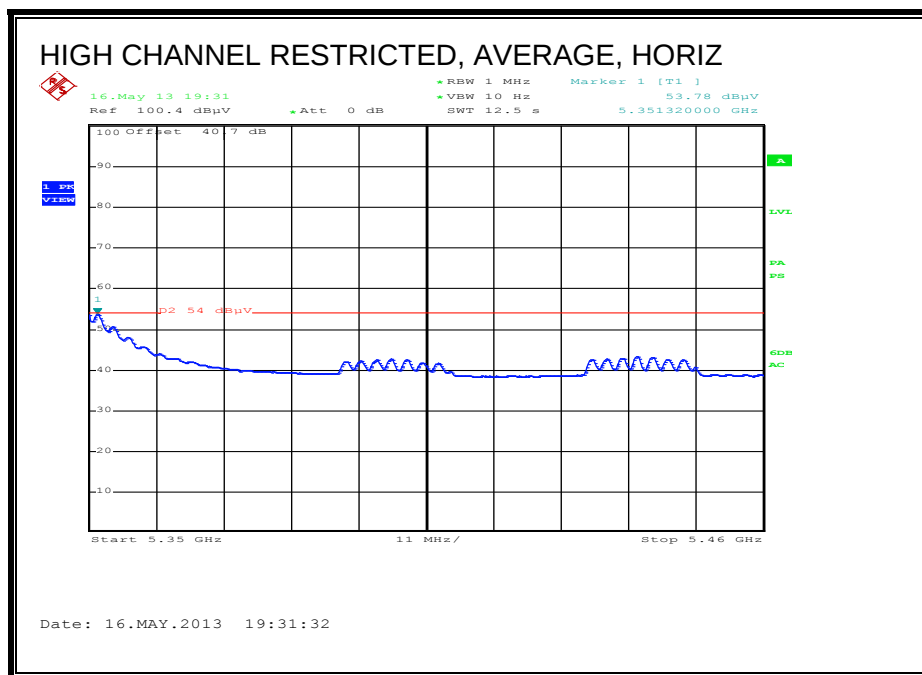
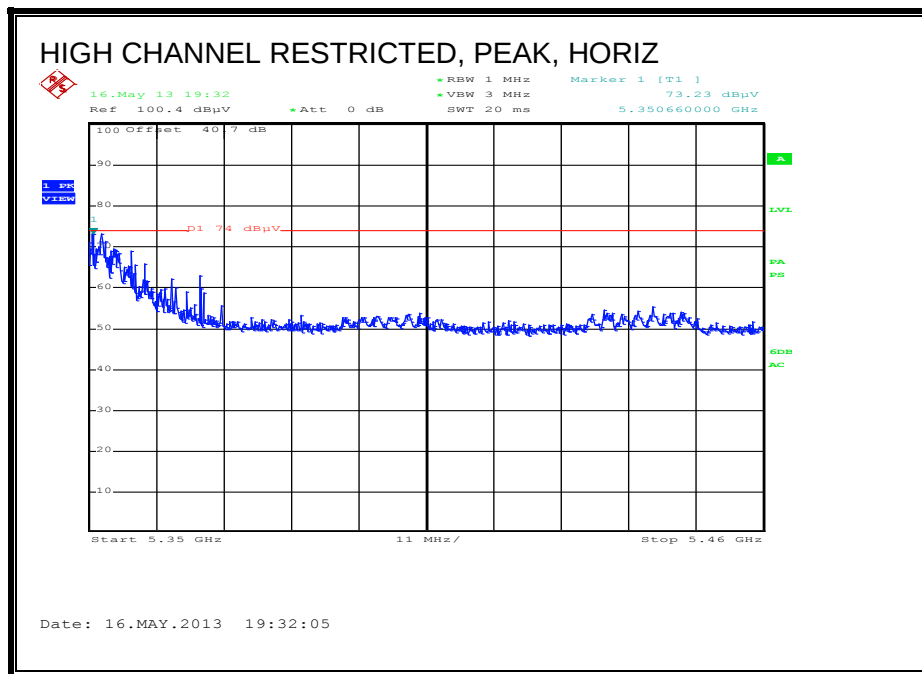


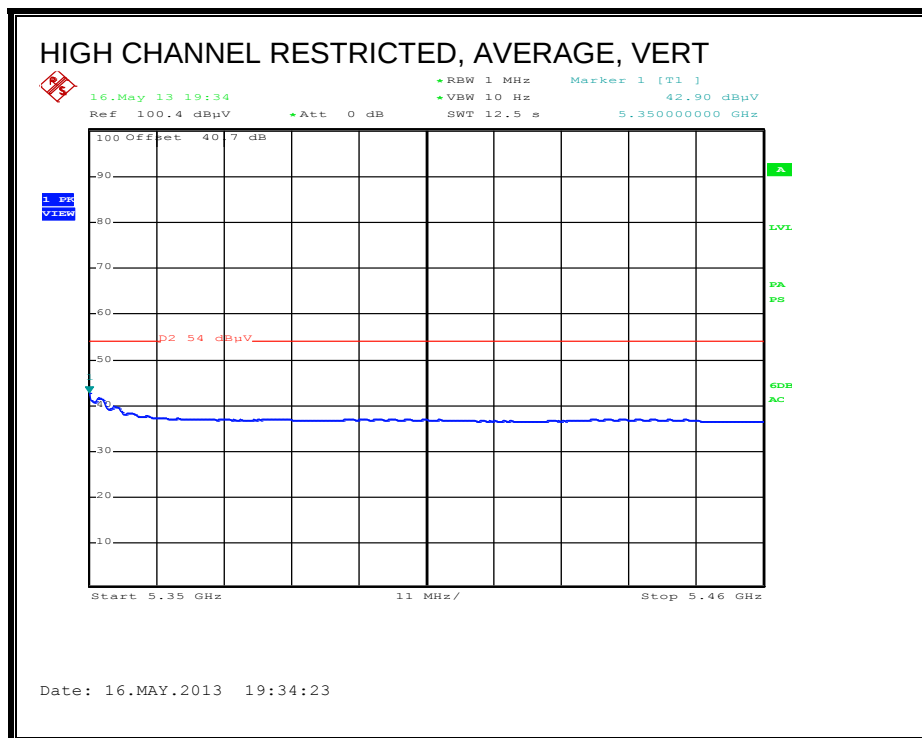
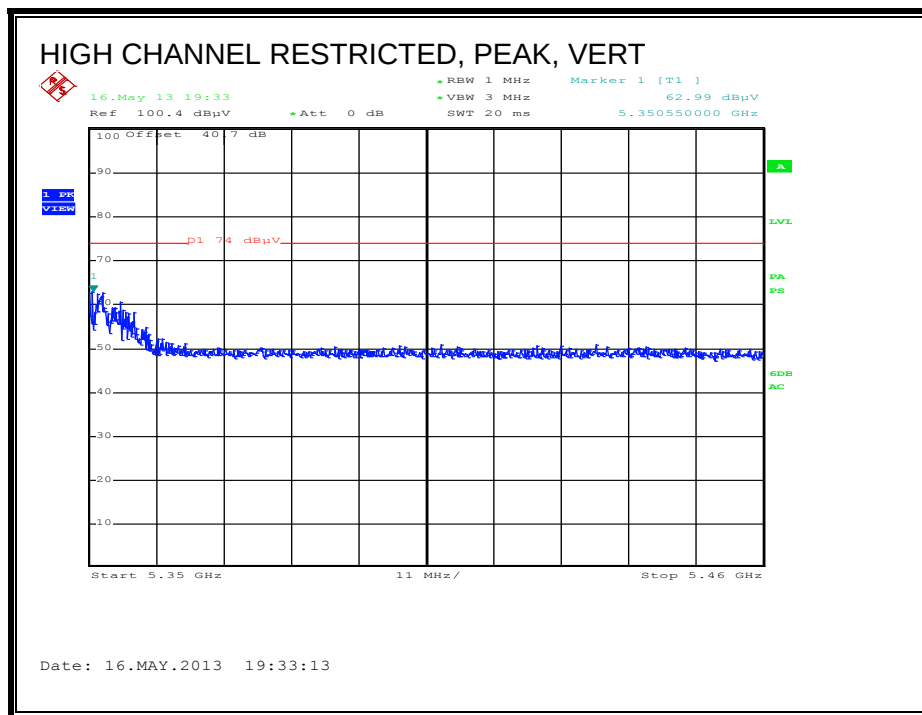
HARMONICS AND SPURIOUS EMISSIONS

Covered by worse case emissions testing of 11n HT20 CDD 2TX at power levels, per transmit chain, greater than or equal to any 1TX and 2TX mode.

9.2.6. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

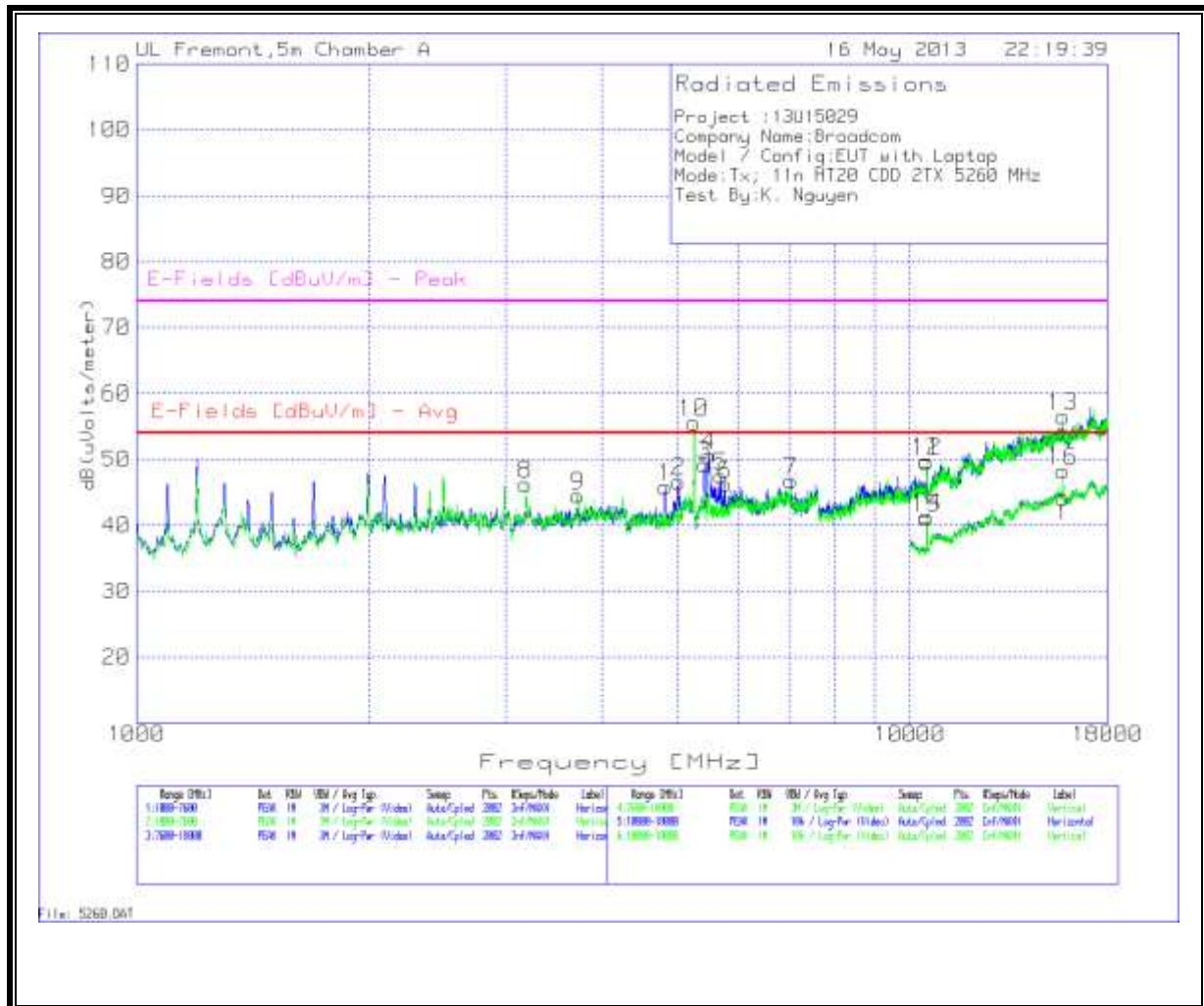
RESTRICTED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

Low Channel



Trace Markers

Horizontal 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	4826.087	40.81	PK	33.9	-35.7	6.7	0.1	45.81	53.97	-8.16	74	-28.19	200	Horz
2	5020.69	40.57	PK	33.9	-35.6	6.9	0.9	46.67	53.97	-7.3	74	-27.33	200	Horz
3	5429.685	42.2	PK	34.4	-35.5	7.2	0.9	49.2	53.97	-4.77	74	-24.8	200	Horz
4	5505.547	43.58	PK	34.4	-35.5	7.3	0.8	50.58	-	-	68.2	-17.62	200	Horz
5	5693.553	40.72	PK	34.6	-35.5	7.5	0.2	47.52	-	-	68.2	-20.68	200	Horz
6	5762.819	39.43	PK	34.7	-35.5	7.5	0.1	46.23	-	-	68.2	-21.97	100	Horz
7	7012.894	38.54	PK	35.4	-35.7	8.5	0	46.74	-	-	68.2	-21.46	100	Horz

Vertical 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	3186.807	44.15	PK	33.5	-36.6	5.2	0	46.25	-	-	68.2	-21.95	100	Vert
9	3721.139	41.64	PK	33.3	-36.2	5.8	0	44.54	53.97	-9.43	74	-29.46	200	Vert
10	5258.171	48.76	PK	34.3	-35.5	7.1	0.9	55.56	-	-	68.2	-12.64	200	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
11	10520.94	37.09	PK	37.6	-36	10.6	0.3	49.59	-	-	68.2	-18.61	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
12	10520.94	37.29	PK	37.6	-36	10.6	0.3	49.79	-	-	68.2	-18.41	100	Vert
13	15780.71	37.64	PK	40.4	-35.2	13.4	0.3	56.54	-	-	74	-17.46	100	Vert

Horizontal 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
14	10515.742	28.92	PK	37.5	-36	10.6	0.3	41.32	-	-	68.2	-26.88	100	Horz

Vertical 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
15	10515.742	28.67	PK	37.5	-36	10.6	0.3	41.07	-	-	68.2	-27.13	100	Vert
16	15781.109	29.31	PK	40.4	-35.2	13.4	0.3	48.21	53.97	-5.76	74	-25.79	100	Vert

Radiated Emissions

Horizontal 1000 - 7600MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5427.12	35.82	VB1	34.4	-35.5	7.2	0.9	42.82	53.97	-11.15	-	-	235	180	Horz

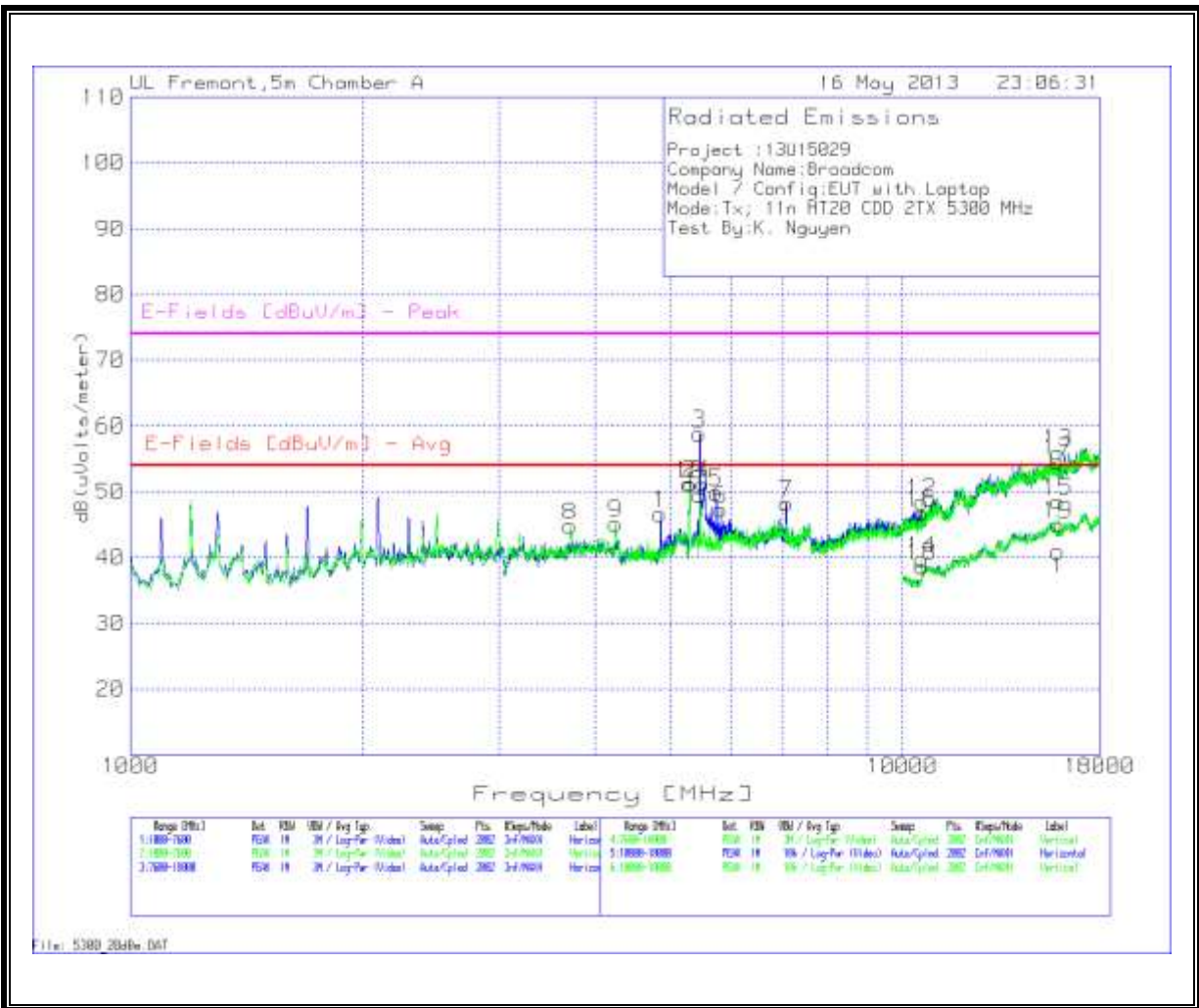
Vertical 10000 - 18000MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
15783.46	25.76	VB1	40.4	-35.2	13.4	0.3	44.66	53.97	-9.31	74	-29.34	235	180	Vert

VB1 - KDB 789033 v01r02 Method: VB Alternative Reduced Video

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

Mid Channel



Trace Markers

Horizontal 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	1095.652	52.32	PK	27.9	-38.7	3.1	0	44.62	54	-9.38	74	-29.38	200	Horz
2	1296.852	48.41	PK	30.3	-38.2	3.3	0	43.81	-	-	68.2	-24.39	200	Horz
3	1692.654	50.76	PK	29.3	-37.5	3.7	0	46.26	54	-7.74	74	-27.74	100	Horz
4	1893.853	49.49	PK	31.6	-37.2	3.9	0	47.79	-	-	68.2	-20.41	200	Horz
5	5033.883	48.59	PK	33.9	-35.6	6.9	0.9	54.69	-	-	74	-19.31	200	Horz
6	6933.733	41.14	PK	35.4	-35.6	8.4	0	49.34	-	-	68.2	-18.86	200	Horz

Vertical 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	1000	57.53	PK	28.1	-38.9	3	0	49.73	54	-4.27	74	-24.27	100	Vert
8	1293.553	50.73	PK	30.2	-38.2	3.3	0	46.03	-	-	68.2	-22.17	200	Vert
9	1494.753	52.35	PK	28.9	-37.8	3.5	0	46.95	-	-	68.2	-21.25	100	Vert
10	1692.654	49.57	PK	29.3	-37.5	3.7	0	45.07	54	-8.93	74	-28.93	100	Vert
11	1930.135	47.29	PK	31.8	-37.2	4	0	45.89	-	-	68.2	-22.31	100	Vert
12	5202.099	44.05	PK	34.2	-35.5	7.1	0.9	50.75	-	-	68.2	-17.45	200	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
13	10915.942	34.53	PK	37.9	-35.6	10.9	0.2	47.93	54	-6.07	74	-26.07	100	Horz
14	12890.955	35.09	PK	39.1	-34.3	11.9	0.2	51.99	54	-2.01	74	-22.01	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
15	10401.399	36.24	PK	37.4	-36	10.6	0.2	48.44	54	-5.56	74	-25.56	100	Vert
16	11939.83	35.57	PK	38.7	-35.7	11.4	0.3	50.27	54	-3.73	74	-23.73	100	Vert

Horizontal 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
17	12694.653	24.18	PK	39.2	-34.6	11.8	0.1	40.68	54	-13.32	74	-33.32	100	Horz

Vertical 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
18	11791.104	24.85	PK	38.6	-35.7	11.3	0.3	39.35	54	-14.65	74	-34.65	200	Vert

Radiated Emissions

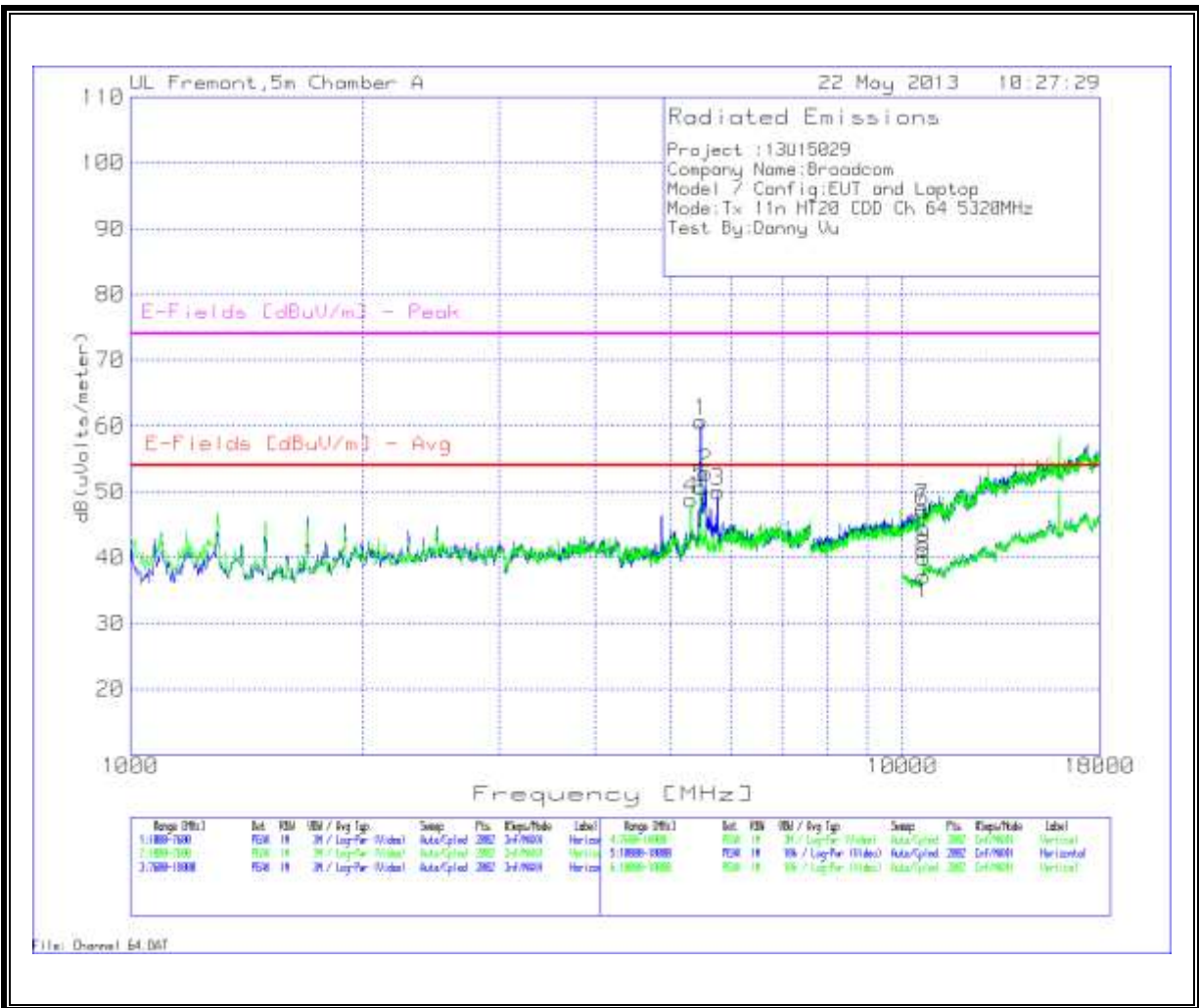
Horizontal 1000 - 18000MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T160 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5034.99	33.17	VB1	33.9	-35.6	6.9	0.2	38.57	53.97	-15.4	74	-35.43	144	100	Horz

VB1 - KDB 789033 v01r02 Method: VB Alternative Reduced Video

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

High Channel



Trace Markers

Horizontal 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5482.459	53.56	PK	34.4	-35.5	7.3	0.9	60.66	-	-	68.2	-7.54	200	Horz
2	5558.321	46.39	PK	34.4	-35.5	7.3	0.3	52.89	-	-	68.2	-15.31	200	Horz
3	5766.117	43.2	PK	34.7	-35.5	7.5	0.1	50	-	-	68.2	-18.2	200	Horz

Vertical 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
4	5327.436	41.96	PK	34.3	-35.5	7.2	0.9	48.86	-	-	68.2	-19.34	200	Vert
5	5489.055	43.59	PK	34.4	-35.5	7.3	0.9	50.69	-	-	68.2	-17.51	200	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	10635.282	34.23	PK	37.8	-35.9	10.7	0.2	47.03	53.97	-6.94	74	-26.97	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	10635.282	34.84	PK	37.8	-35.9	10.7	0.2	47.64	53.97	-6.33	74	-26.36	100	Vert

Horizontal 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	10643.678	27.33	PK	37.8	-35.9	10.7	0.1	40.03	53.97	-13.94	74	-33.97	100	Horz

Vertical 10000 - 18000MHz

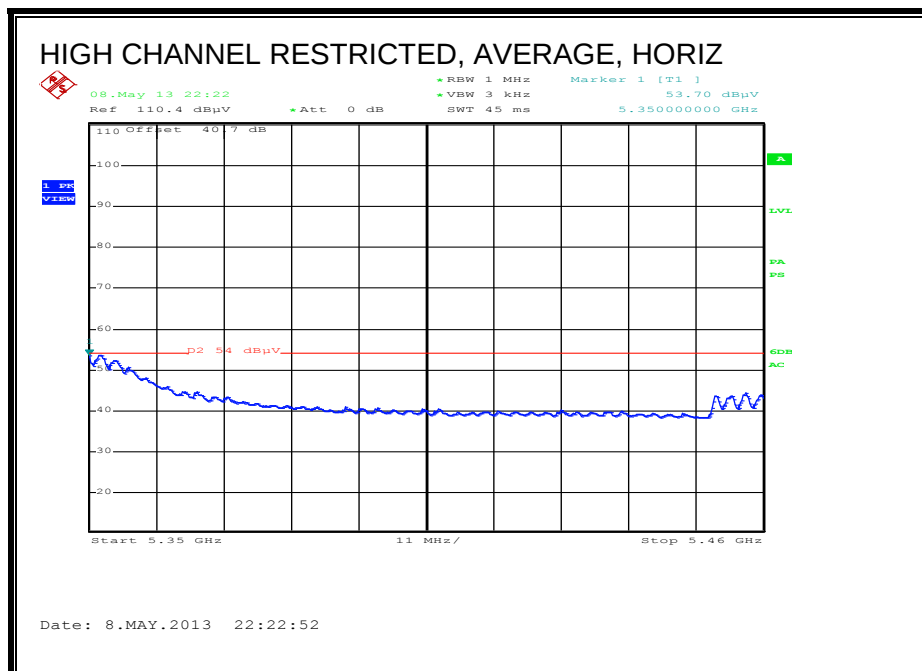
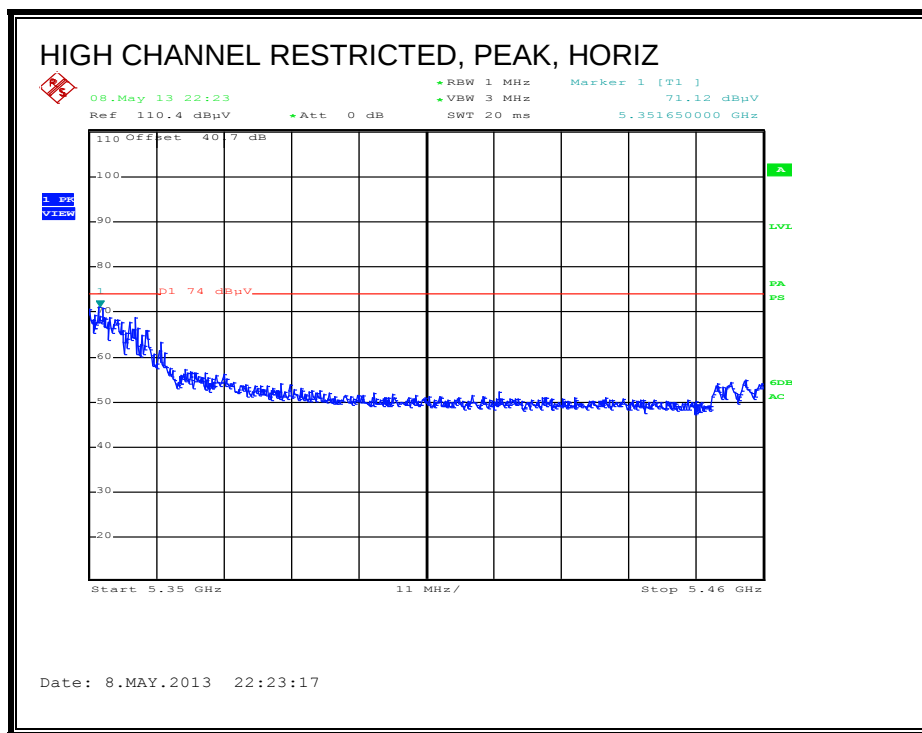
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
9	10639.68	28.53	PK	37.8	-35.9	10.7	0.1	41.23	53.97	-12.74	74	-32.77	100	Vert

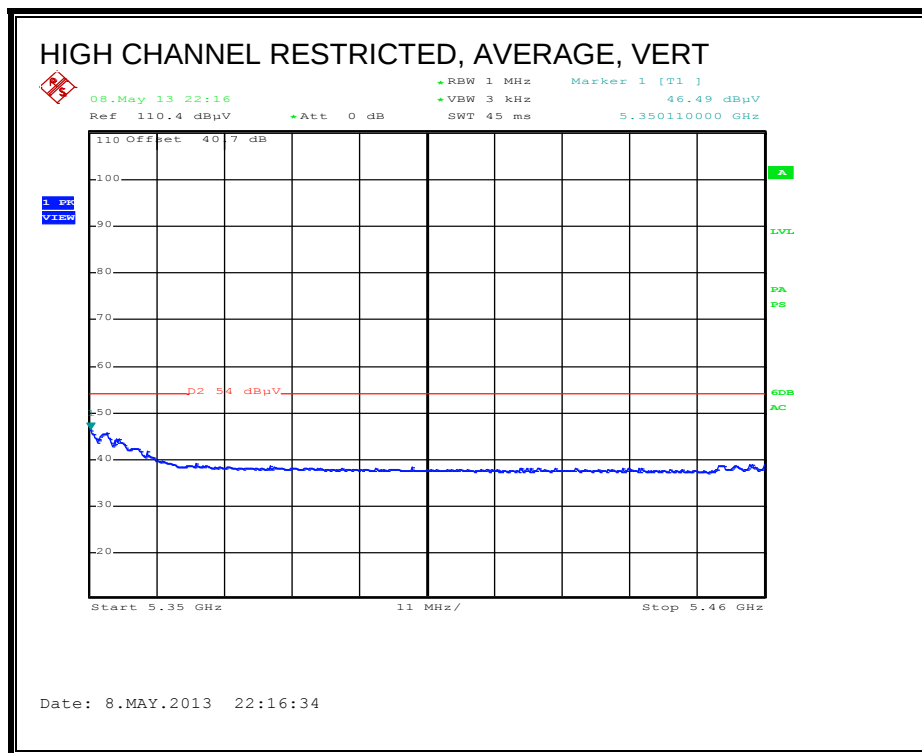
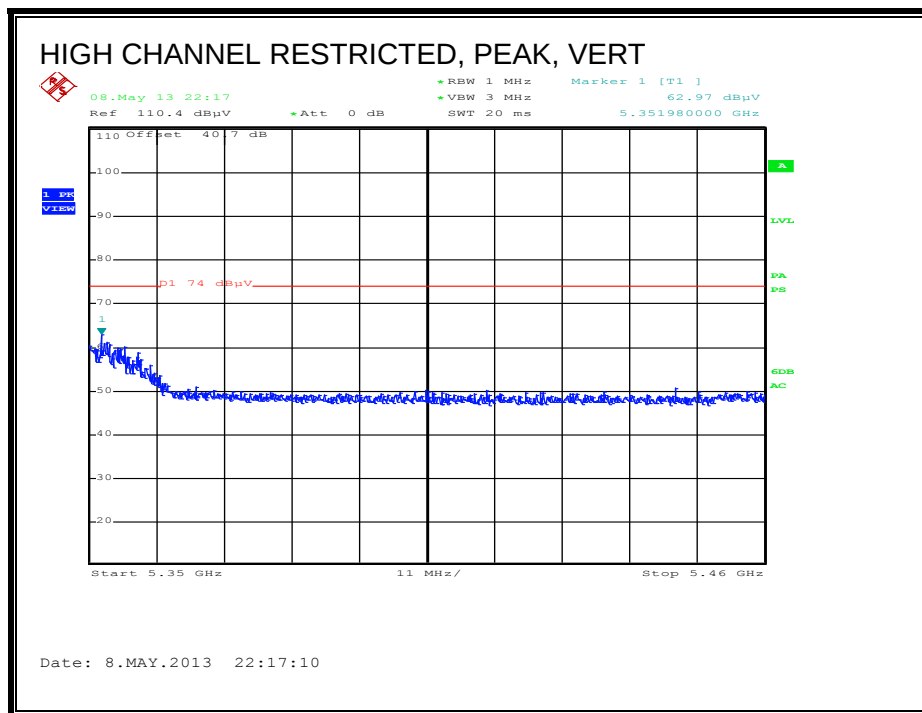
PK - Peak detector

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

9.2.7. TX ABOVE 1 GHz 802.11n HT40 CDD 2TX MODE IN THE 5.3 GHz BAND

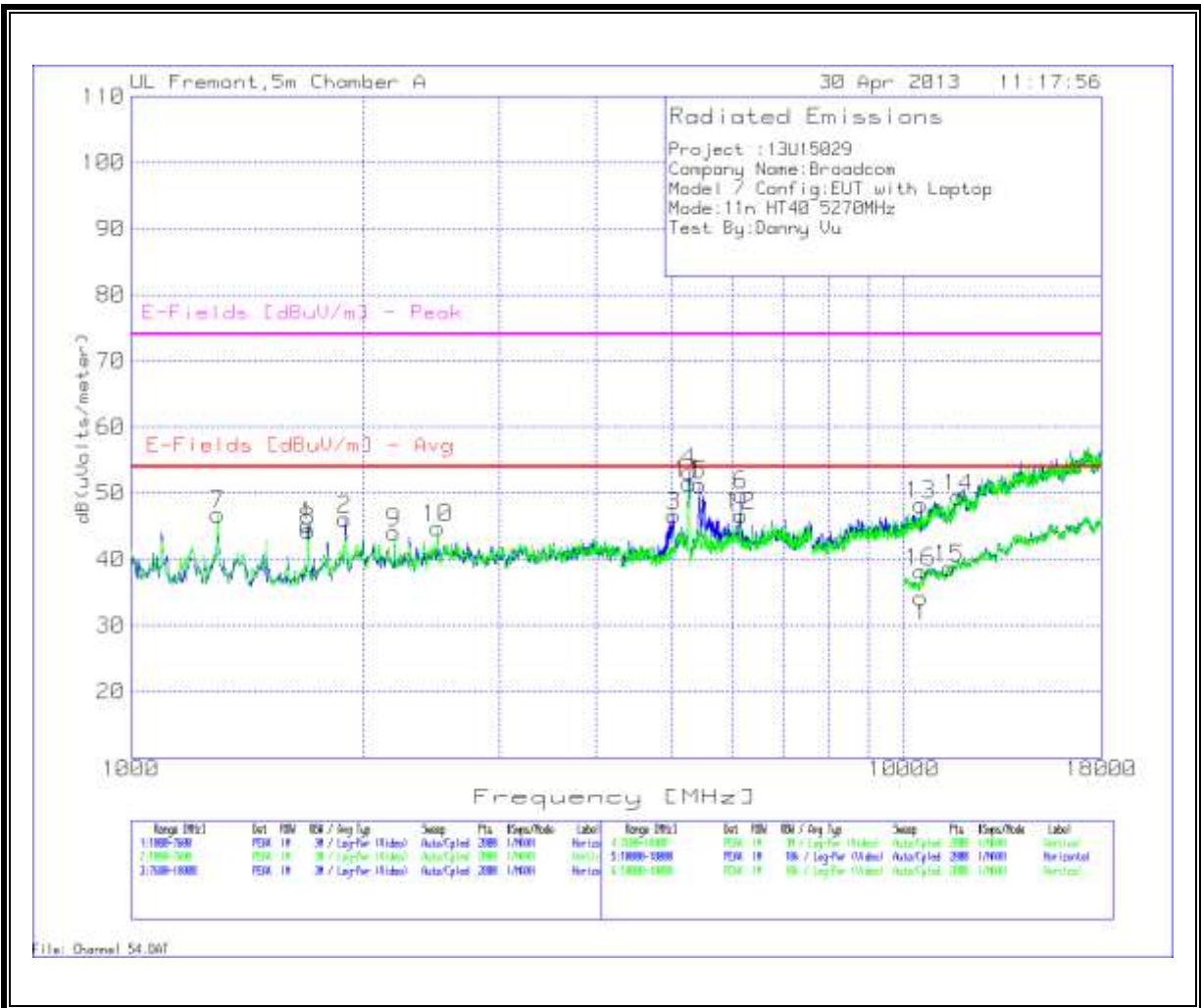
RESTRICTED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

Low Channel



Horizontal 1000 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	1692.654	49.63	PK	29.3	-37.5	3.7	0	45.13	53.97	-8.84	74	-28.87	102	Horz
2	1893.853	47.86	PK	31.6	-37.2	3.9	0	46.16	-	-	68.2	-22.04	200	Horz
3	5037.181	40.49	PK	33.9	-35.6	6.9	0.9	46.59	53.97	-7.38	74	-27.41	200	Horz
5	5446.177	44.11	PK	34.4	-35.5	7.3	0.9	51.21	53.97	-2.76	74	-22.79	200	Horz
6	6148.726	42.1	PK	35.3	-35.6	7.8	0.1	49.7	-	-	68.2	-18.5	200	Horz

Vertical 1000 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	1296.852	51.34	PK	30.3	-38.2	3.3	0	46.74	-	-	68.2	-21.46	200	Vert
8	1695.952	48.78	PK	29.4	-37.5	3.7	0	44.38	53.97	-9.59	74	-29.62	100	Vert
9	2190.705	45.24	PK	31.5	-37	4.2	0.1	44.04	-	-	68.2	-24.16	100	Vert
10	2494.153	44.31	PK	32.6	-36.8	4.5	0.1	44.71	53.97	-9.26	74	-29.29	100	Vert
11	5268.066	44.7	PK	34.3	-35.5	7.1	0.9	51.5	-	-	68.2	-16.7	200	Vert
12	6148.726	39.05	PK	35.3	-35.6	7.8	0.1	46.65	-	-	68.2	-21.55	200	Vert

Horizontal 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
13	10520.94	35.72	PK	37.6	-36	10.6	0.3	48.22	-	-	68.2	-25.78	100	Horz

Vertical 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
14	11747.526	35.02	PK	38.5	-35.7	11.3	0.3	49.42	53.97	-4.55	74	-24.58	100	Vert

Horizontal 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
15	11435.282	24.43	PK	38.2	-35.6	11.1	0.5	38.63	53.97	-15.34	74	-35.37	100	Horz

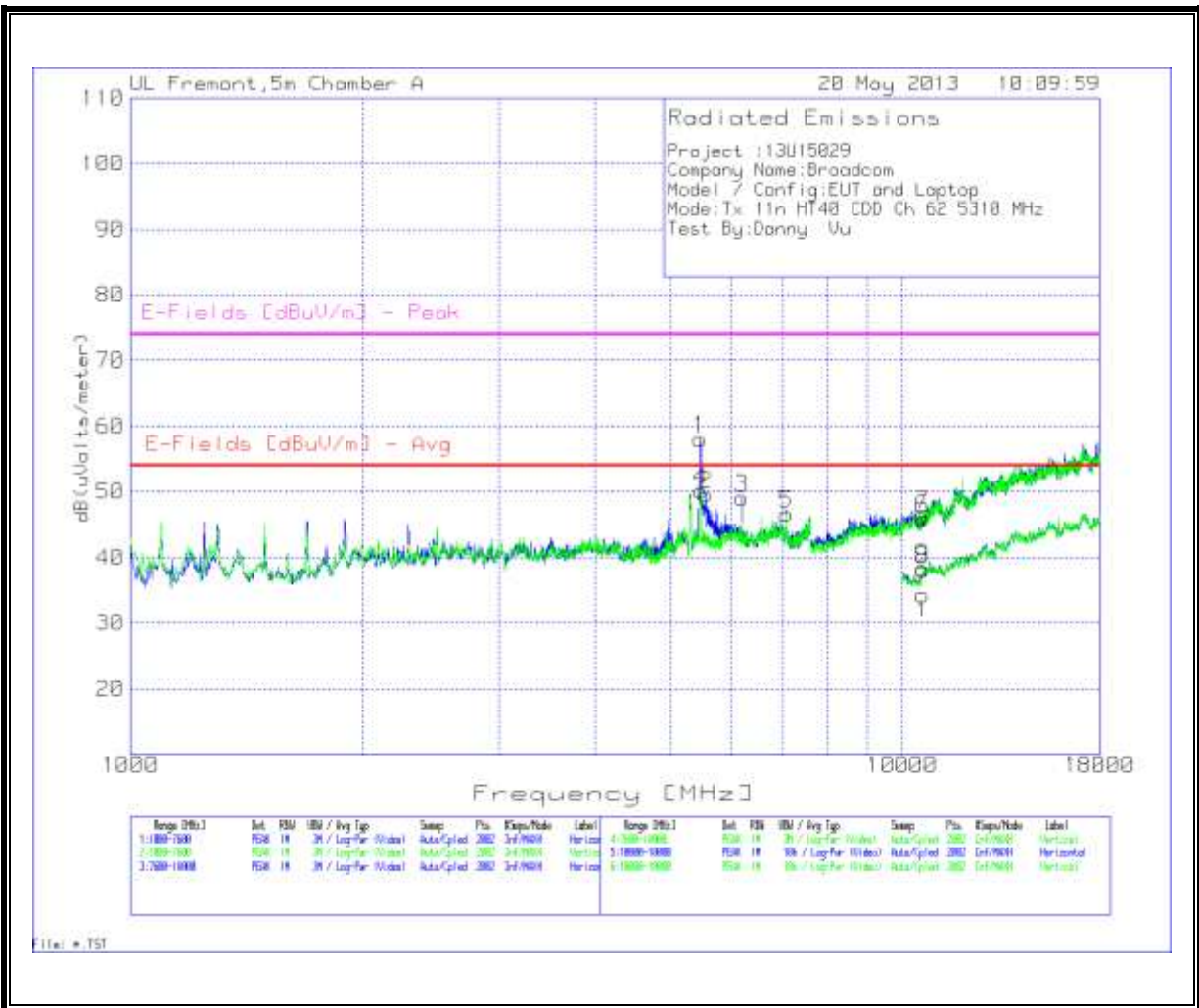
Radiated Emissions

Horizontal 1000 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T160 BRF [dB]	dB (uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5446.177	43.95	VB1	34.4	-35.5	7.2	0.2	50.25	53.97	-3.72	74	-23.75	145	100	Horz

VB1 - KDB 789033 v01r02 Method: VB Alternative Reduced Video

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

High Channel



Trace Markers

Horizontal 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5472.564	50.95	PK	34.4	-35.5	7.3	0.9	58.05	53.97	4.08	74	-15.95	200	Horz
2	5551.724	43.08	PK	34.4	-35.5	7.3	0.3	49.58	53.97	-4.39	74	-24.42	200	Horz
3	6194.903	41.33	PK	35.4	-35.6	7.9	0.1	49.13	53.97	-4.84	74	-24.87	200	Horz

Vertical 1000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
4	5485.757	43.12	PK	34.4	-35.5	7.3	0.9	50.22	53.97	-3.75	74	-23.78	100	Vert
5	7082.159	38.47	PK	35.4	-35.7	8.5	0	46.67	53.97	-7.3	74	-27.33	100	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	10630.085	33.13	PK	37.8	-35.9	10.7	0.2	45.93	53.97	-8.04	74	-28.07	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	10614.493	33.64	PK	37.8	-35.9	10.7	0.3	46.54	53.97	-7.43	74	-27.46	100	Vert

Horizontal 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	10627.686	25.31	PK	37.8	-35.9	10.7	0.2	38.11	53.97	-15.86	74	-35.89	200	Horz

Vertical 10000 - 18000MHz

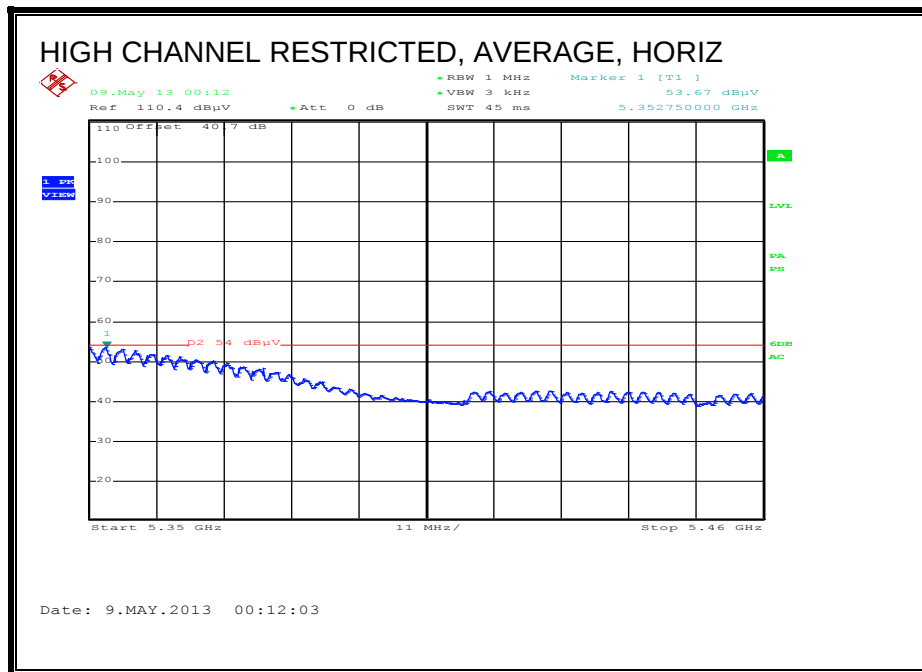
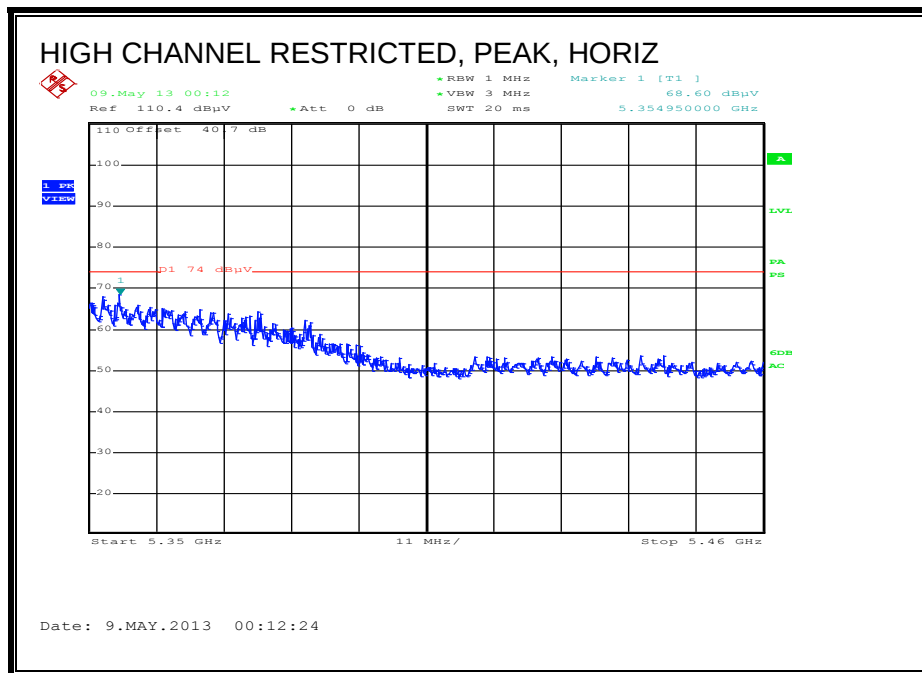
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
9	10619.69	25.49	PK	37.8	-35.9	10.7	0.3	38.39	53.97	-15.58	74	-35.61	100	Vert

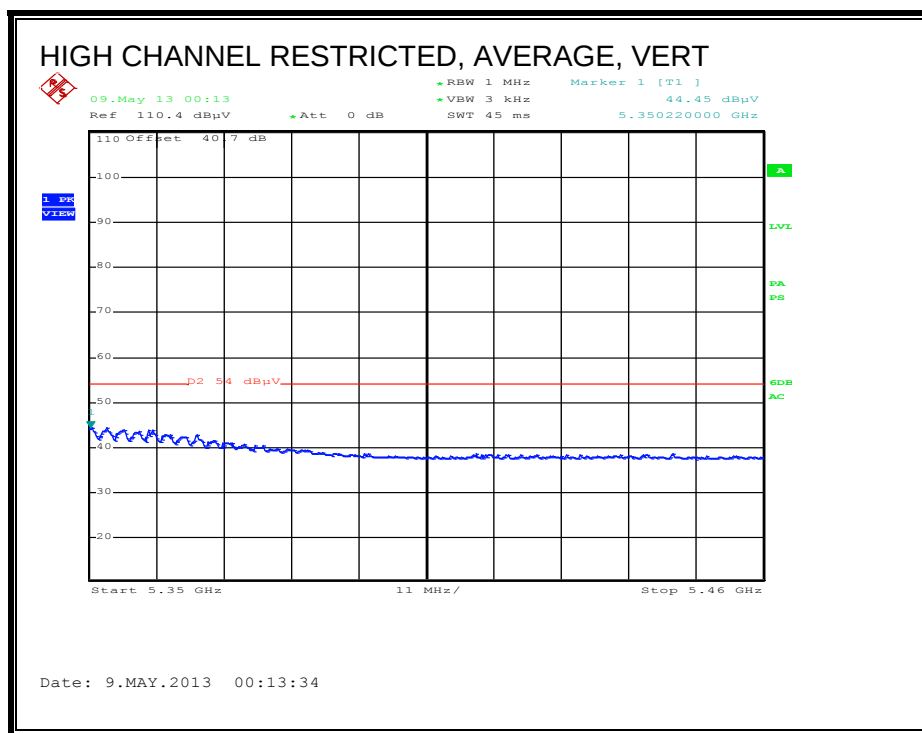
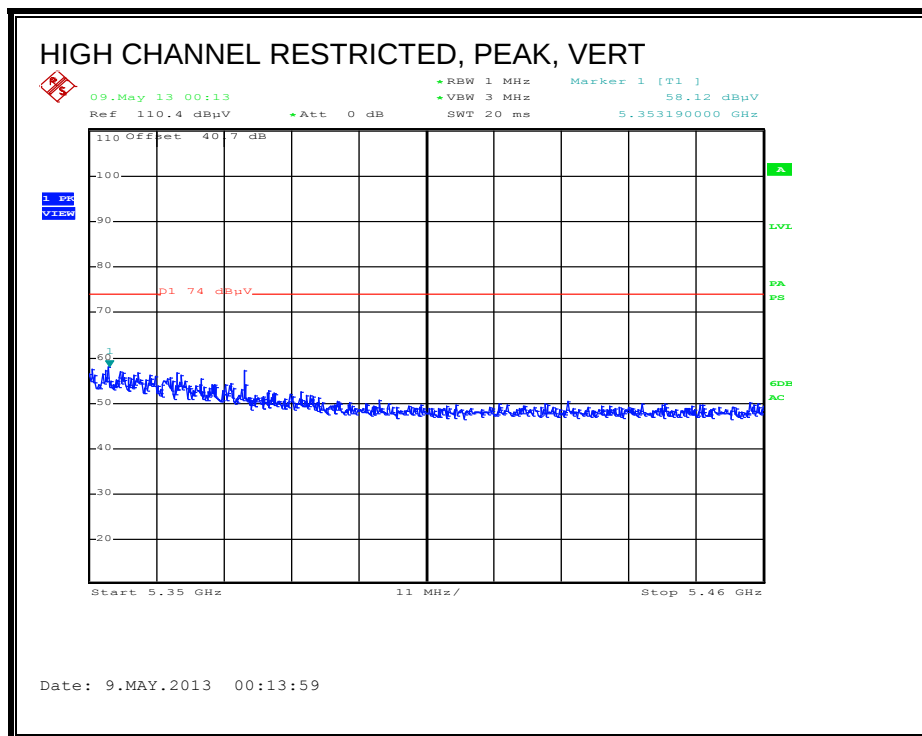
PK - Peak detector

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

9.2.8. TX ABOVE 1 GHz 802.11n HT80 CDD 2TX MODE IN THE 5.3 GHz BAND

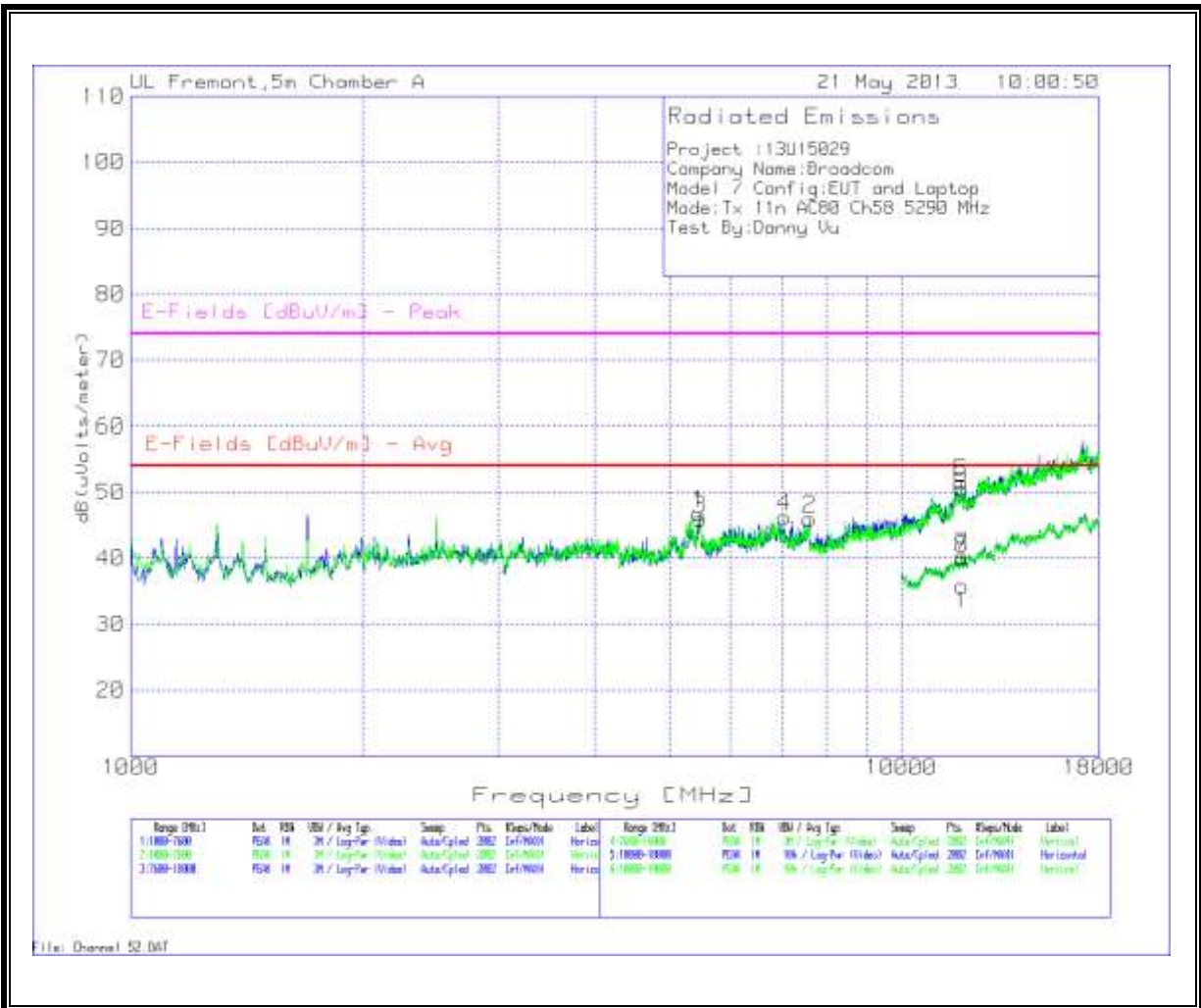
RESTRICTED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

High Channel

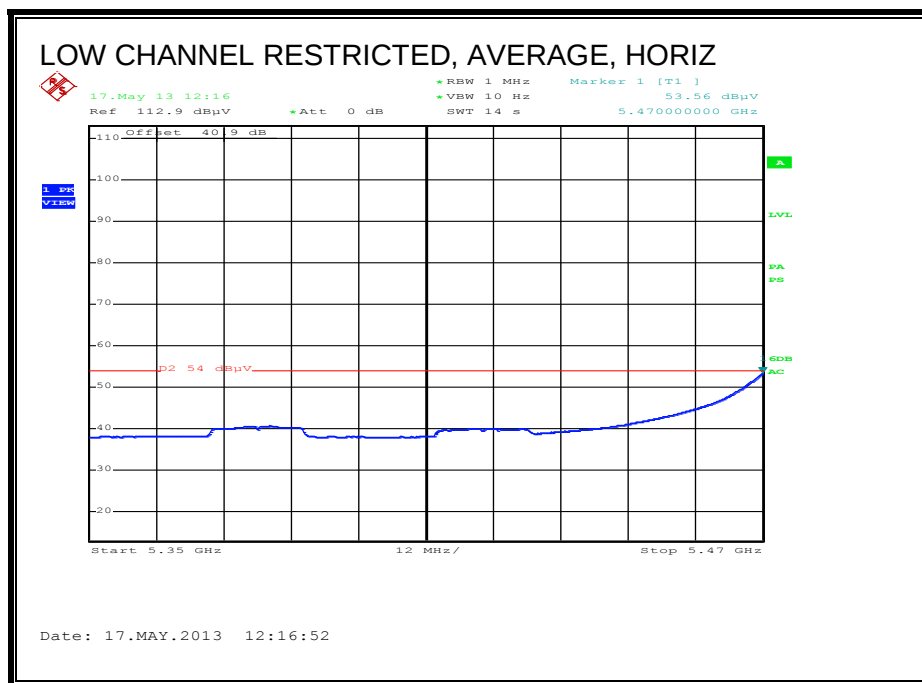
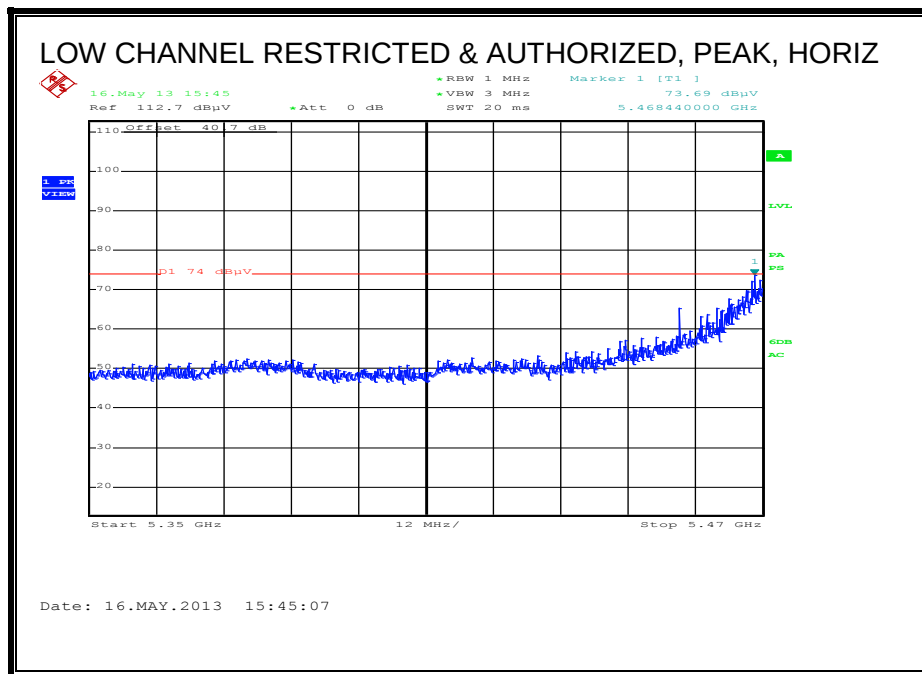


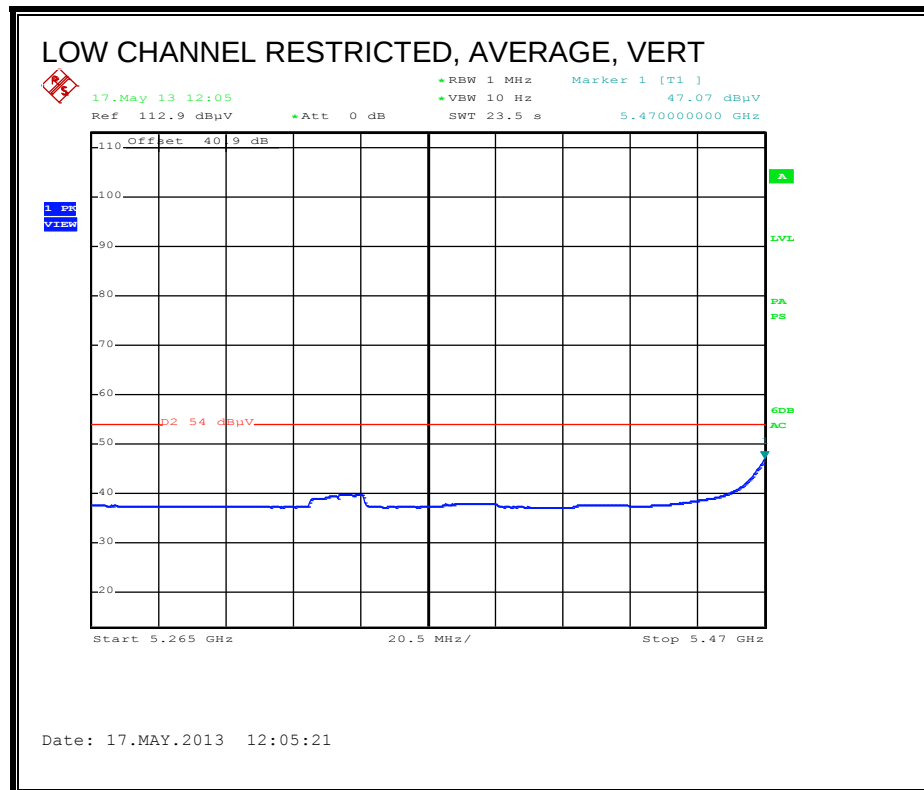
Trace Markers															
Horizontal 1000 - 7600MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(μVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5459.37	39.66	PK	34.4	-35.5	7.3	0.9	0	46.76	53.97	-7.21	74	-27.24	300	Horz
2	7600	37.31	PK	35.5	-35.8	8.9	0	0	45.91	53.97	-8.06	74	-28.09	300	Horz
Vertical 1000 - 7600MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(μVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
3	5472.564	38.86	PK	34.4	-35.5	7.3	0.9	0	45.96	-	-	68.2	-22.24	200	Vert
4	7055.772	38	PK	35.4	-35.7	8.5	0.1	0	46.3	-	-	68.2	-21.9	200	Vert
Horizontal 7600 - 18000MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(μVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
5	11934.633	36.75	PK	38.7	-35.7	11.4	0.3	0	51.45	53.97	-2.52	74	-22.55	200	Horz
Vertical 7600 - 18000MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(μVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	11950.225	35.76	PK	38.8	-35.7	11.4	0.3	0	50.56	53.97	-3.41	74	-23.44	100	Vert
Horizontal 10000 - 18000MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(μVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	11963.018	25.46	PK	38.8	-35.7	11.4	0.3	0	40.26	53.97	-13.71	74	-33.74	100	Horz
Vertical 10000 - 18000MHz															
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(μVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	11975.012	25.21	PK	38.8	-35.7	11.4	0.2	0	39.91	53.97	-14.06	74	-34.09	100	Vert
Radiated Emissions															
Horizontal 7600 - 18000MHz															
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(μVolts/m eter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
11934.49	25.08	VB1	38.7	-35.7	11.4	0.3	0	39.98	53.97	-13.99	-	-	299	115	Horz
Vertical 7600 - 18000MHz															
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	DC Corr [dB]	dB(μVolts/m eter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
11955.7	24.96	VB1	38.8	-35.7	11.4	0.3	0	39.96	53.97	-14.01	-	-	236	205	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

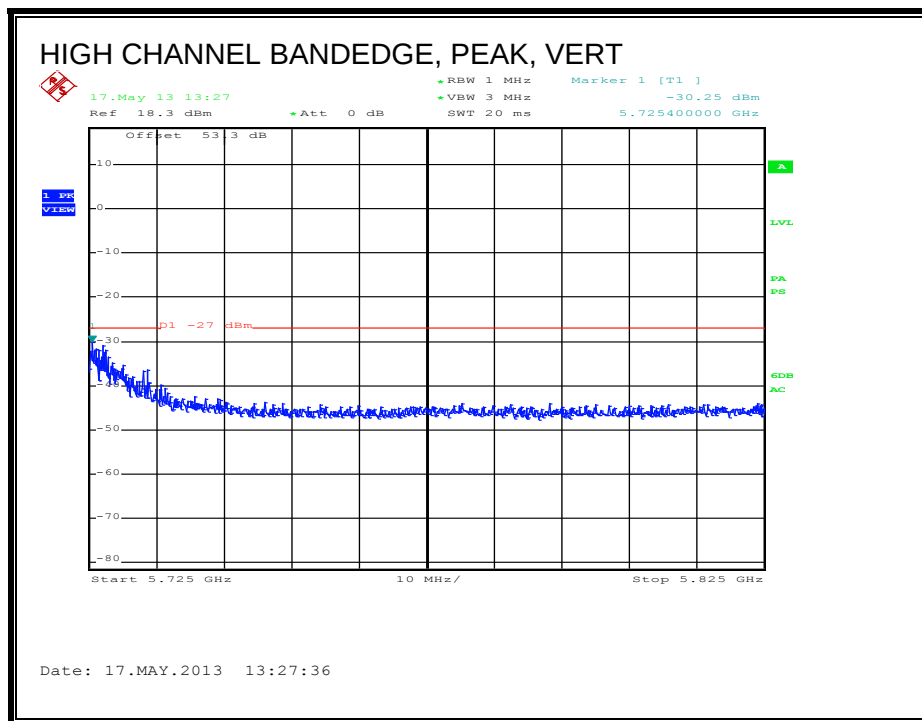
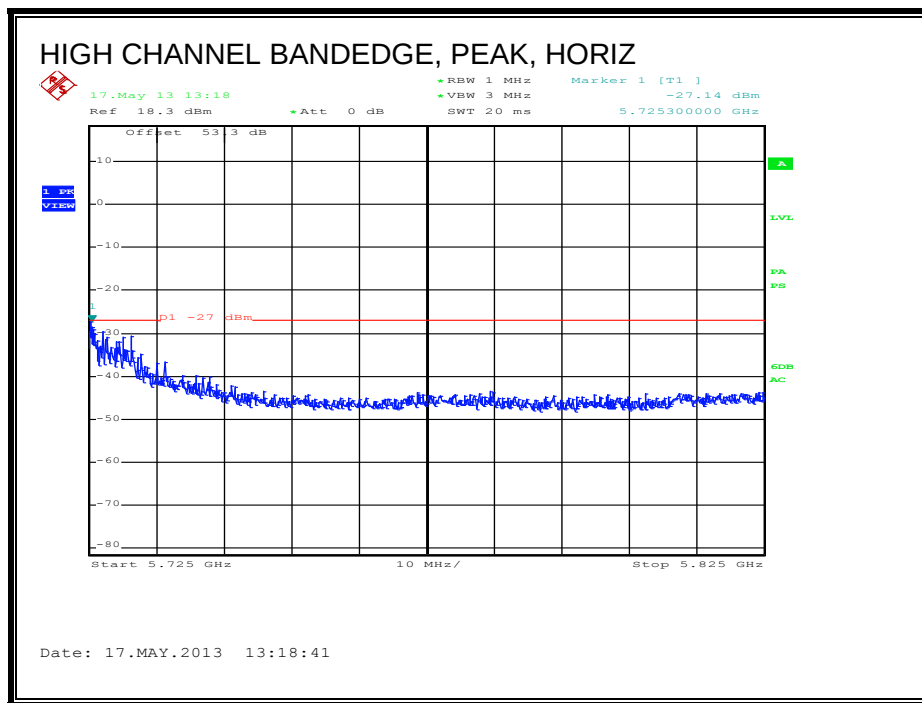
9.2.9. TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)





AUTHORIZED BANDEDGE (HIGH CHANNEL)

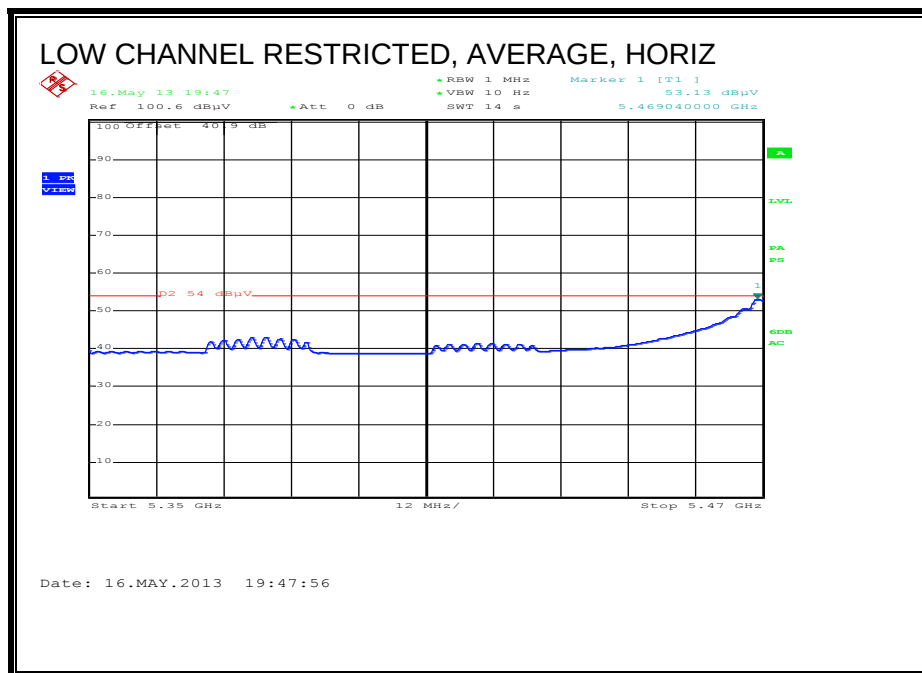
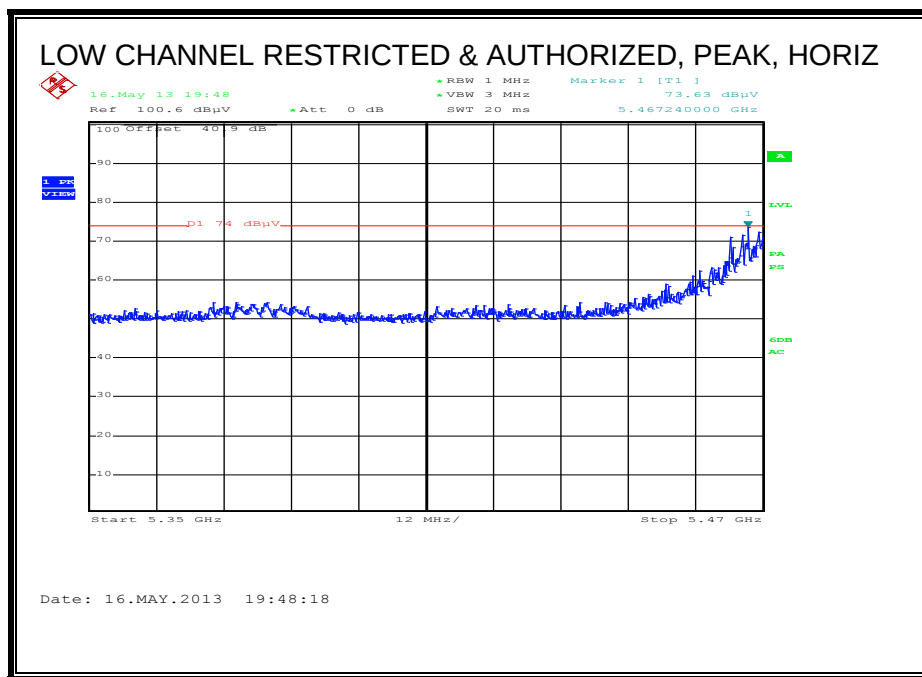


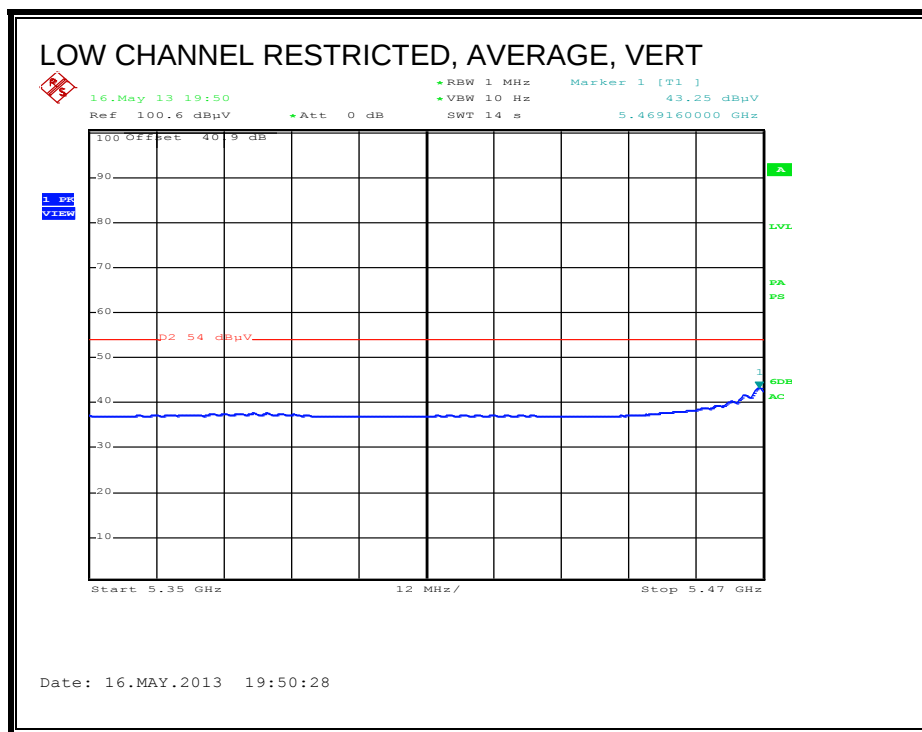
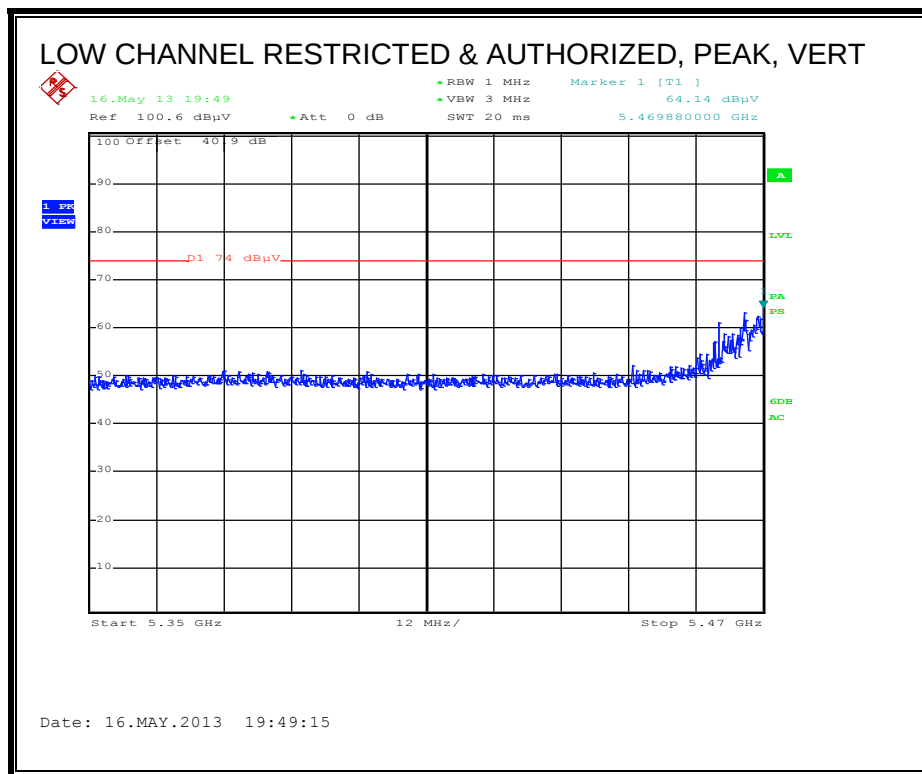
HARMONICS AND SPURIOUS EMISSIONS

Covered by worse case emissions testing of 11n HT20 CDD 2TX at power levels, per transmit chain, greater than or equal to any 1TX and 2TX mode.

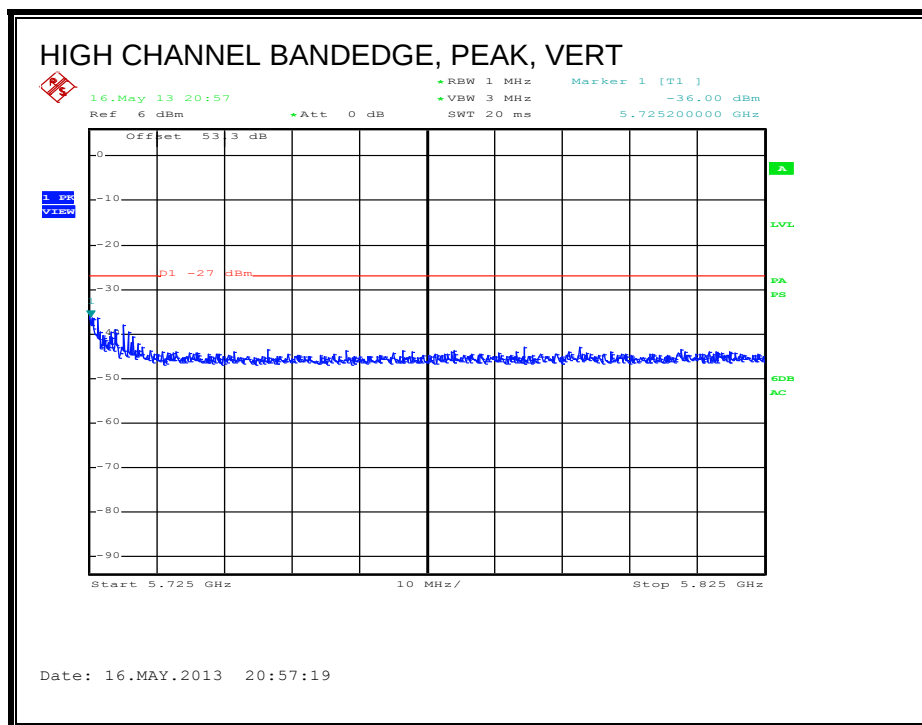
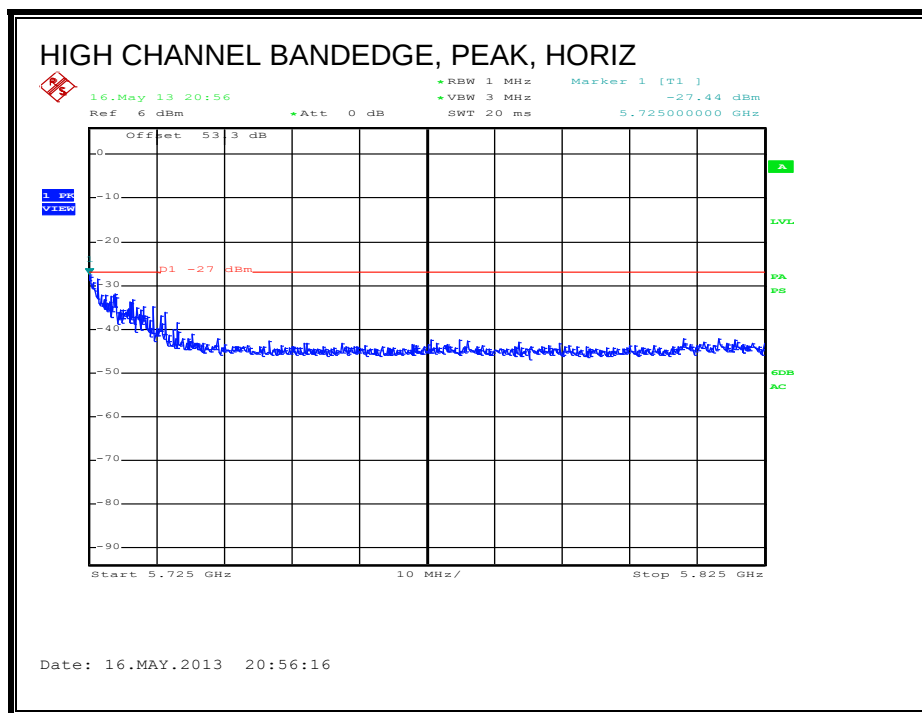
9.2.10. TX ABOVE 1 GHz 802.11n HT20 CDD 2TX MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)



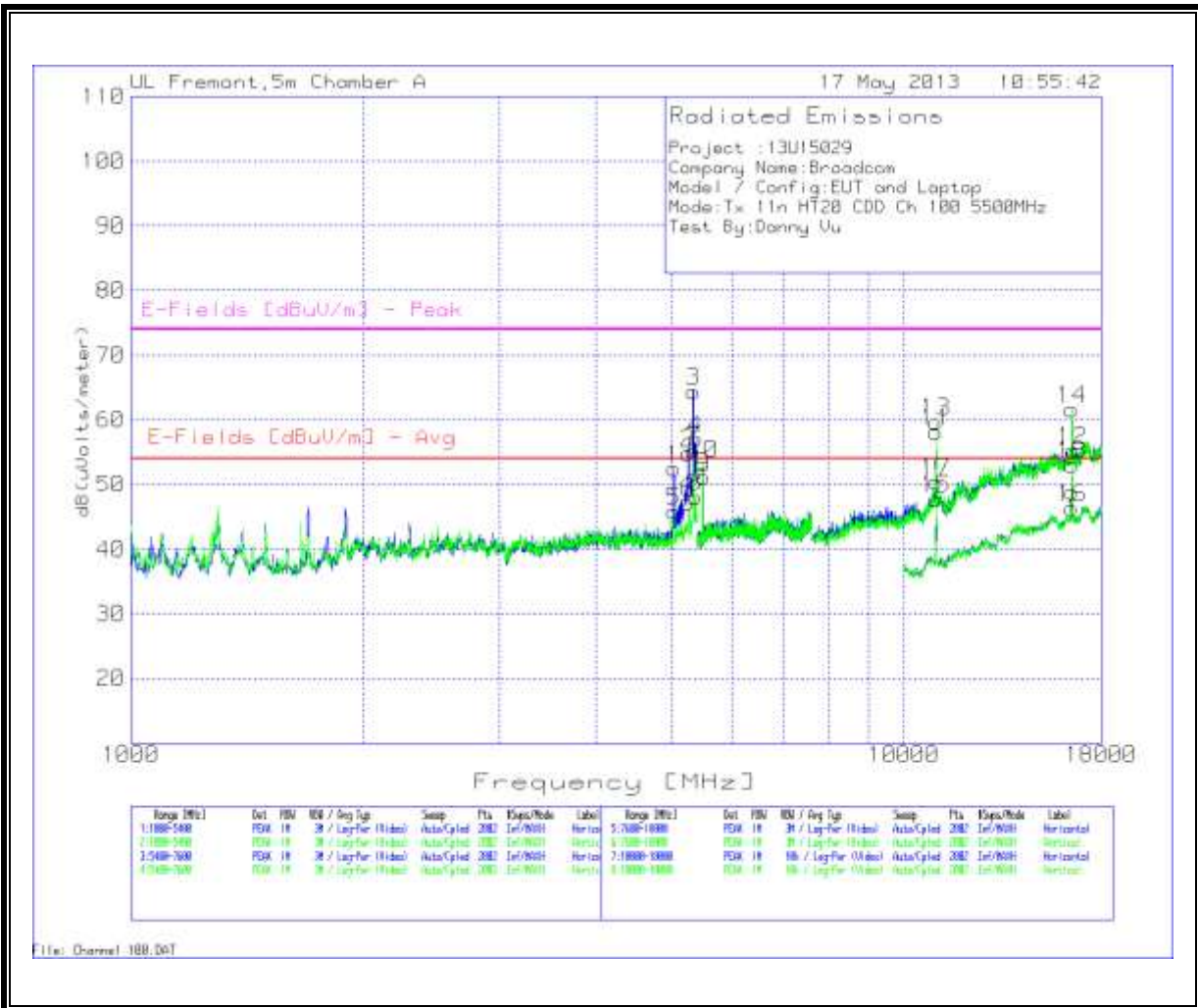


AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS

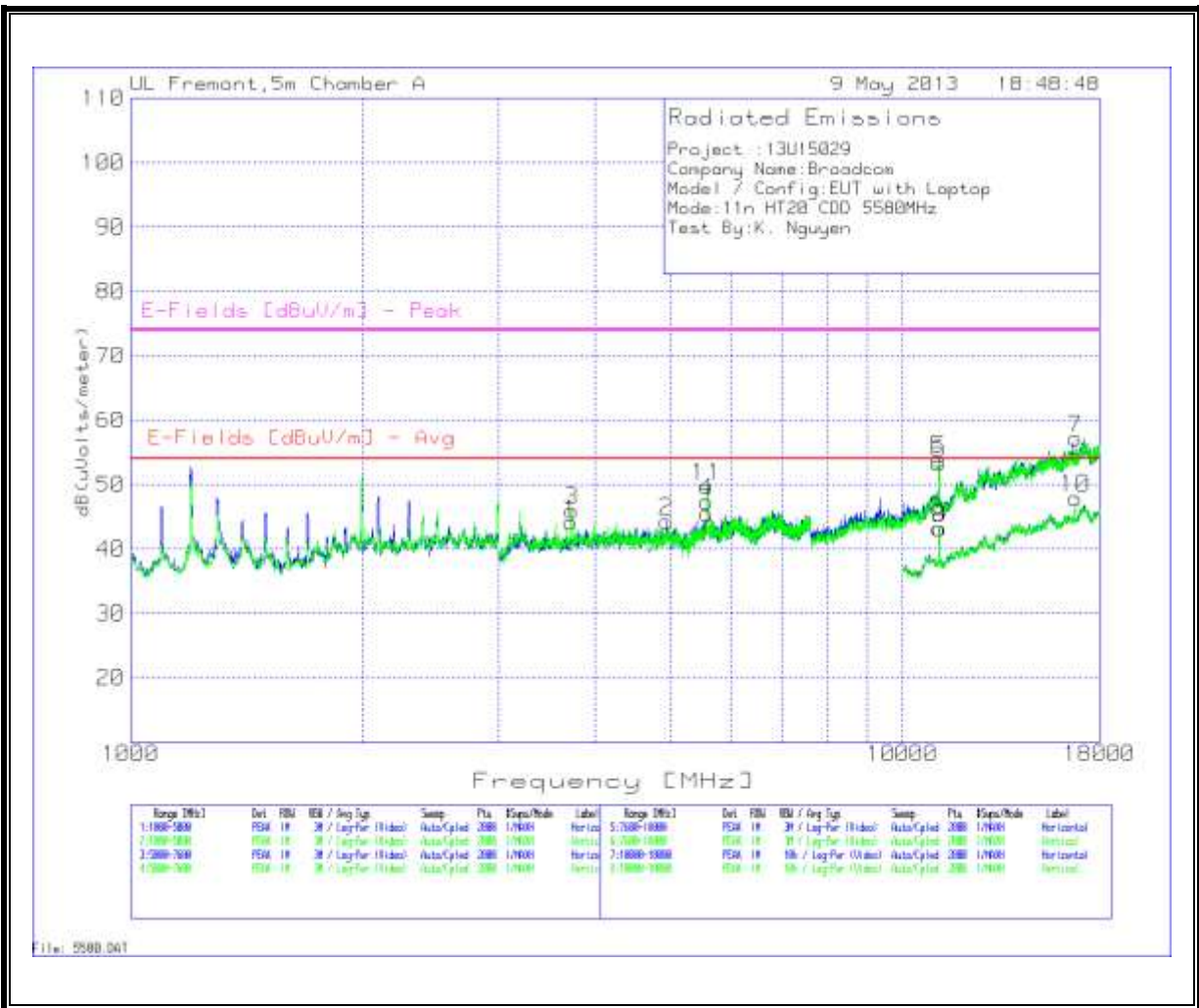
Low Channel



Trace Markers														
Horizontal 1000 - 5400MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5039.38	47.26	PK	33.9	-35.6	6.9	0.1	52.56	54	-1.44	74	-21.44	200	Horz
2	5265.867	48.39	PK	34.3	-35.5	7.1	0.6	54.89	-	-	68.2	-13.31	200	Horz
3	5338.431	57.38	PK	34.3	-35.5	7.2	1	64.38	-	-	68.2	-3.82	200	Horz
4	5382.409	49.94	PK	34.4	-35.5	7.2	1	57.04	54	3.04	74	-16.96	200	Horz
Vertical 1000 - 5400MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
5	5041.579	40.59	PK	33.9	-35.6	6.9	0.1	45.89	54	-8.11	74	-28.11	100	Vert
6	5265.867	40.77	PK	34.3	-35.5	7.1	0.6	47.27	-	-	68.2	-20.93	200	Vert
7	5340.63	48.31	PK	34.3	-35.5	7.2	1	55.31	-	-	68.2	-12.89	200	Vert
8	5373.613	40.95	PK	34.4	-35.5	7.2	1	48.05	54	-5.95	74	-25.95	200	Vert
Horizontal 5400 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
9	5503.348	44.05	PK	34.4	-35.5	7.3	1	51.25	-	-	68.2	-16.95	200	Horz
Vertical 5400 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
10	5502.249	45.96	PK	34.4	-35.5	7.3	1	53.16	-	-	68.2	-15.04	200	Vert
Horizontal 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
11	11009.495	44.84	PK	37.8	-35.6	10.9	0.2	58.14	54	4.14	74	-15.86	100	Horz
12	16529.135	34.92	PK	40.7	-34.7	13.7	0.6	55.22	-	-	68.2	-12.98	100	Horz
Vertical 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
13	10999.1	46.27	PK	37.8	-35.6	10.9	0.3	59.67	54	5.67	74	-14.33	100	Vert
14	16503.148	41.49	PK	40.7	-34.7	13.7	0.4	61.59	-	-	68.2	-6.61	100	Vert
Horizontal 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
15	10995.502	34.38	PK	37.8	-35.6	10.9	0.3	47.78	54	-6.22	74	-26.22	100	Horz
16	16508.746	26.25	PK	40.7	-34.7	13.7	0.5	46.45	-	-	68.2	-21.75	100	Horz
Vertical 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
17	11003.498	37.09	PK	37.8	-35.6	10.9	0.2	50.39	54	-3.61	74	-23.61	100	Vert
18	16500.75	32.94	PK	40.7	-34.7	13.7	0.4	53.04	-	-	68.2	-15.16	100	Vert
Radiated Emissions														
Horizontal 7600 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11006.72	33.63	VB1	37.8	-35.6	10.9	0.2	46.93	54	-7.07	-	-	113	133	Horz
Vertical 7600 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
10997.88	35.6	VB1	37.8	-35.6	10.9	0.3	49	54	-5	-	-	145	149	Vert
Vertical 10000 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11002.62	27.17	VB1	37.8	-35.6	10.9	0.3	40.57	54	-13.43	-	-	0	112	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

Mid Channel



Trace Markers

Horizontal 1000 - 5000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	3720.64	41.22	PK	33.3	-36.2	5.8	0	44.12	53.97	-9.85	74	-29.88	200	Horz
2	4950.025	39.16	PK	33.9	-35.6	6.8	0.1	44.36	53.97	-9.61	74	-29.64	100	Horz

Vertical 1000 - 5000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
3	3732.634	42.97	PK	33.4	-36.2	5.8	0	45.97	53.97	-8	74	-28.03	200	Vert

Horizontal 5000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
4	5580.81	40.05	PK	34.4	-35.5	7.4	1	47.35	-	-	68.2	-20.85	200	Horz

Vertical 5000 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
11	5578.211	42.38	PK	34.4	-35.5	7.4	1	49.68	-	-	68.2	-18.52	200	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
5	11160.22	40.36	PK	37.9	-35.6	11	0.2	53.86	-	-	74	-20.14	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	11160.22	39.83	PK	37.9	-35.6	11	0.2	53.33	-	-	74	-20.67	100	Vert
7	16737.031	36.64	PK	40.7	-34.4	13.8	0.4	57.14	-	-	74	-16.86	100	Vert

Horizontal 10000 - 18000MHz

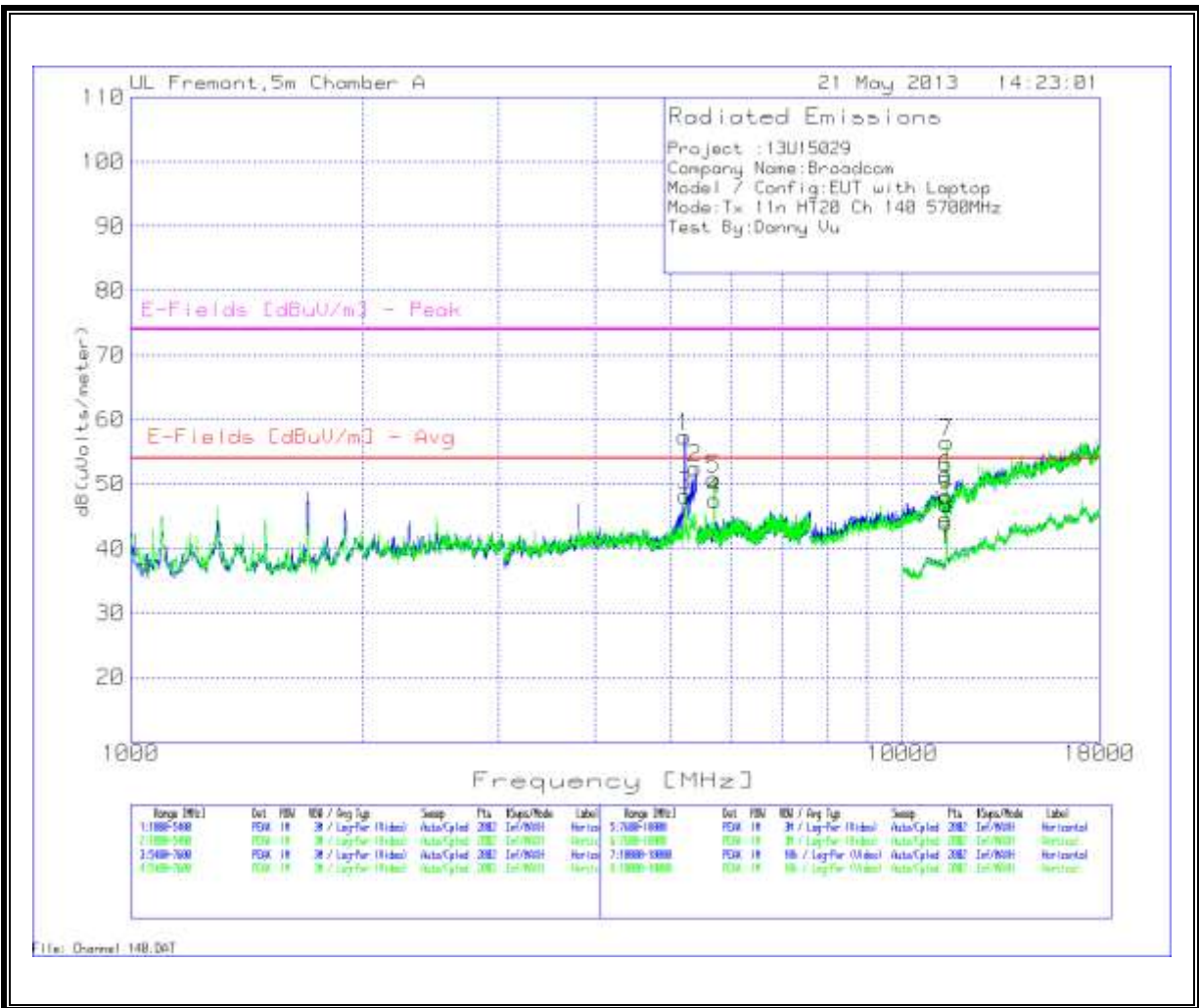
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	11163.418	29.74	PK	37.9	-35.6	11	0.2	43.24	53.97	-10.73	74	-30.76	100	Horz

Vertical 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
9	11159.42	29.65	PK	37.9	-35.6	11	0.2	43.15	53.97	-10.82	74	-30.85	100	Vert
10	16744.628	27.49	PK	40.7	-34.4	13.8	0.4	47.99	53.97	-5.98	74	-26.01	100	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

High Channel

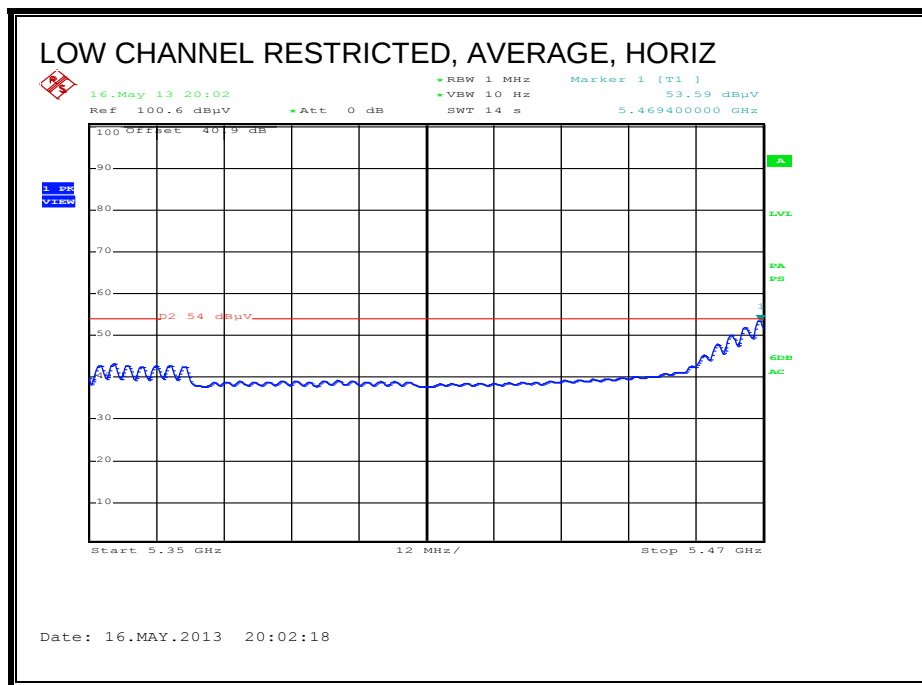
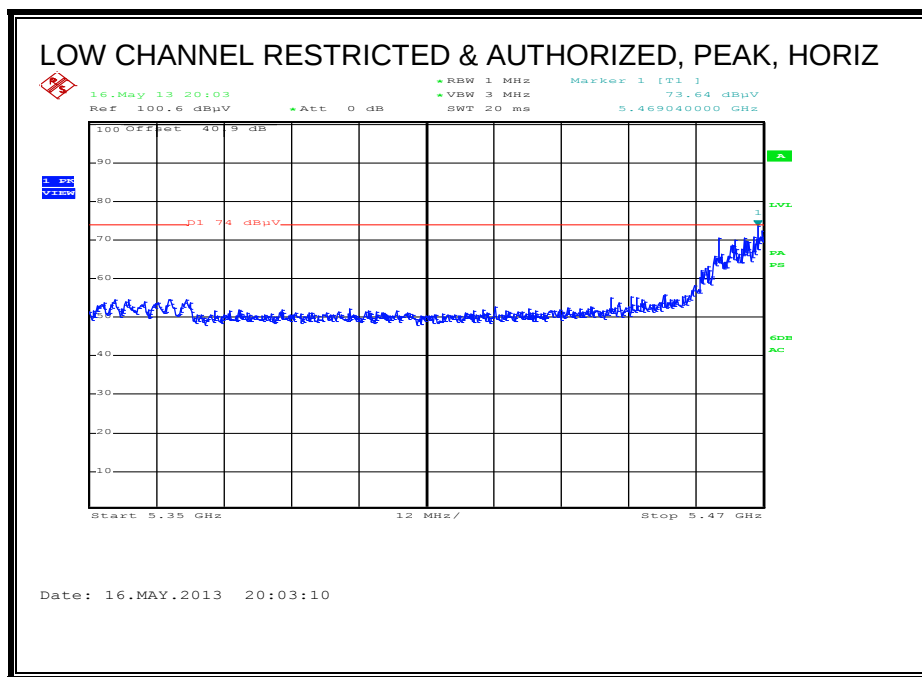


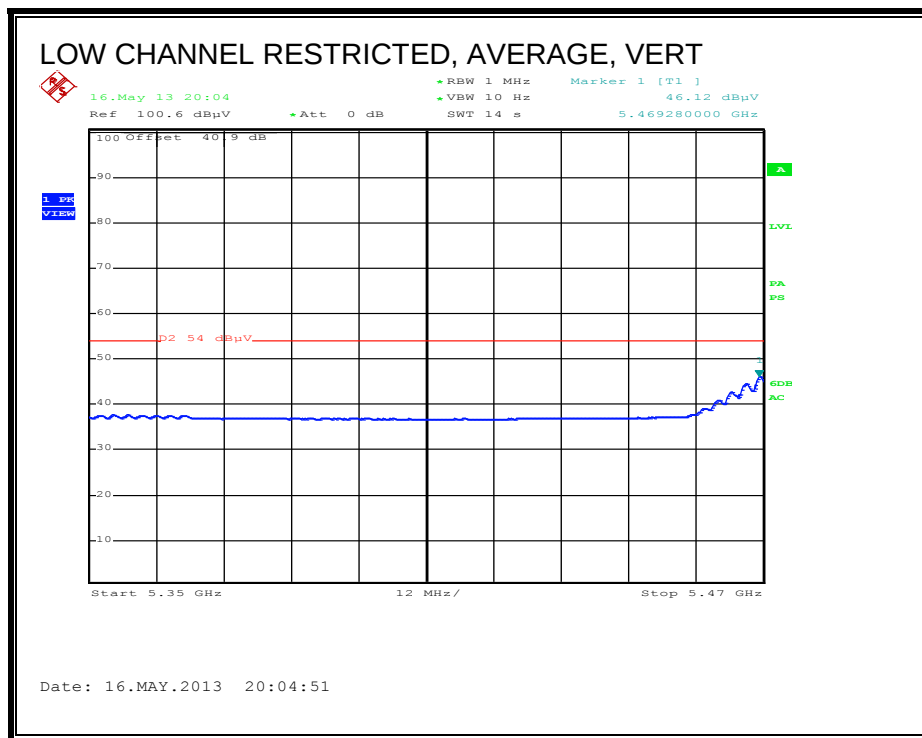
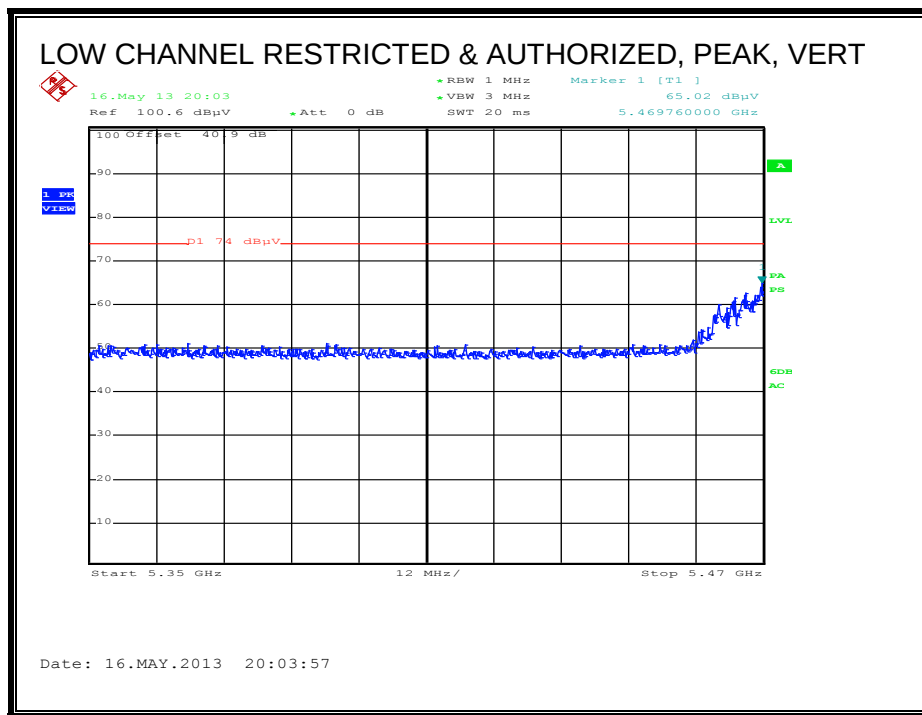
Trace Markers														
Horizontal 1000 - 5400MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5224.088	51.11	PK	34.2	-35.5	7.1	0.4	57.31	-	-	68.2	-10.89	200	Horz
2	5386.807	45.39	PK	34.4	-35.5	7.2	1	52.49	54	-1.51	74	-21.51	200	Horz
Vertical 1000 - 5400MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
3	5228.486	42.03	PK	34.2	-35.5	7.1	0.4	48.23	-	-	68.2	-19.97	200	Vert
Horizontal 5400 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
4	5706.747	39.92	PK	34.6	-35.5	7.5	1	47.52	-	-	68.2	-20.68	200	Horz
Vertical 5400 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
5	5699.05	43.29	PK	34.6	-35.5	7.5	1	50.89	-	-	68.2	-17.31	200	Vert
Horizontal 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	11399.3	36.91	PK	38.2	-35.6	11.1	0.4	51.01	54	-2.99	74	-22.99	100	Horz
Vertical 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	11404.498	42.42	PK	38.2	-35.6	11.1	0.4	56.52	-	-	74	-17.48	100	Vert
Horizontal 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	11399.3	30.52	PK	38.2	-35.6	11.1	0.4	44.62	54	-9.38	-	-	100	Horz
Vertical 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
9	11399.3	34.12	PK	38.2	-35.6	11.1	0.4	48.22	54	-5.78	-	-	100	Vert
Radiated Emissions														
Horizontal 1000 - 5400MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
5391.75	26.06	VB1	34.4	-35.5	7.2	1	33.16	54	-20.84	-	-	85	151	Horz
Horizontal 7600 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11402.08	30.53	VB1	38.2	-35.6	11.1	0.4	44.63	54	-9.37	-	-	330	160	Horz
Vertical 7600 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11400.32	35.21	VB1	38.2	-35.6	11.1	0.4	49.31	54	-4.69	-	-	318	128	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

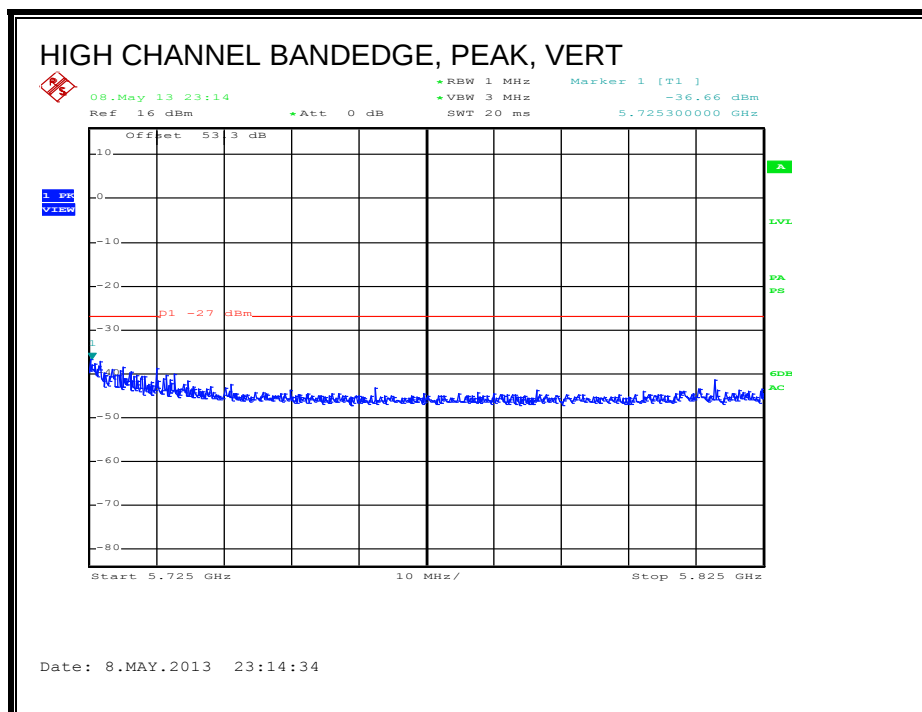
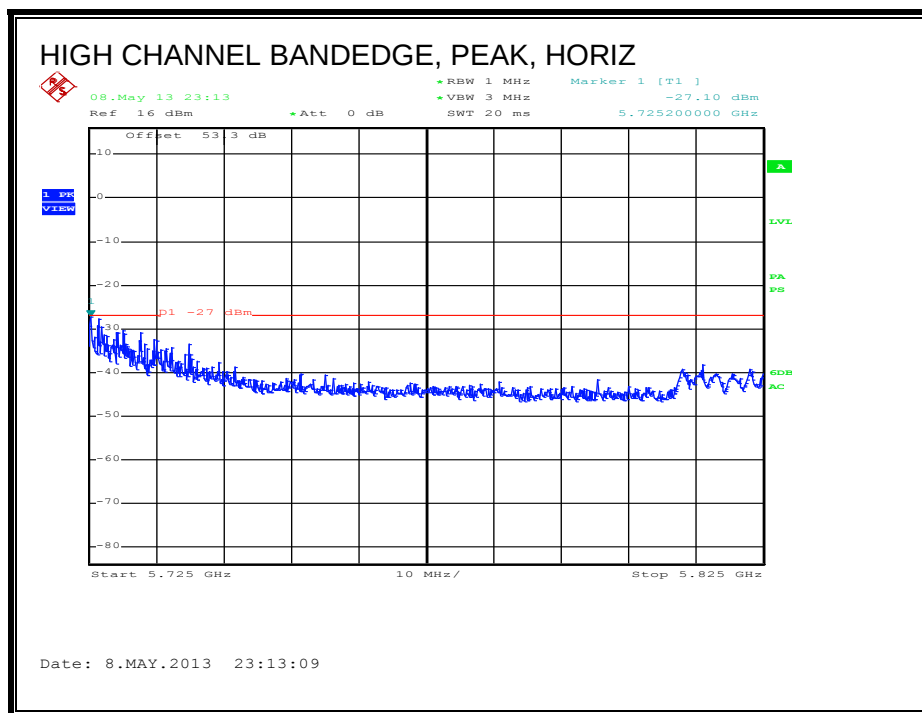
9.2.11. TX ABOVE 1 GHz 802.11n HT40 CDD 2TX MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)



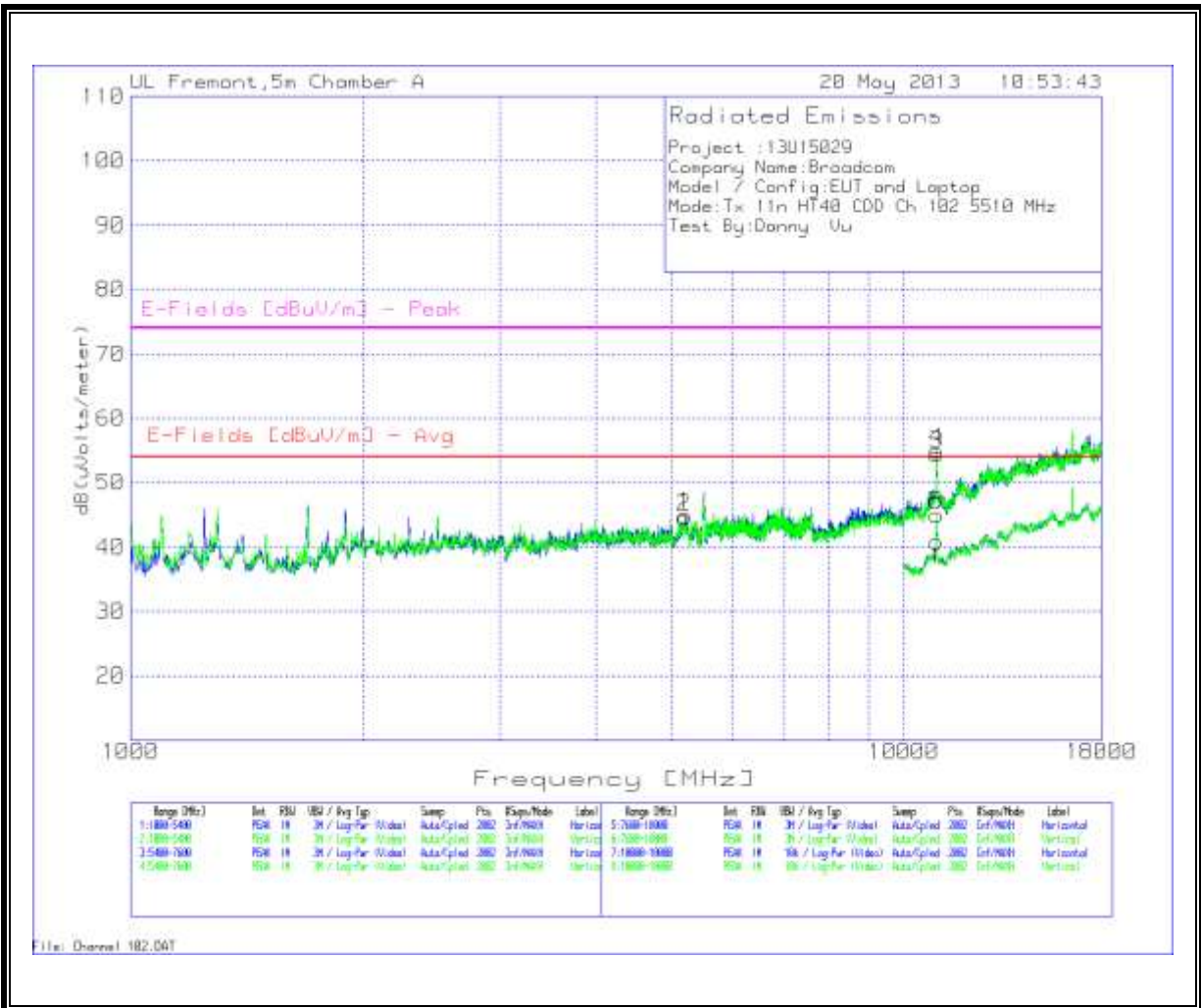


AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS

Low Channel



Trace Markers

Horizontal 1000 - 5400MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5217.491	38.71	PK	34.2	-35.5	7.1	0.4	44.91	54	-9.09	74	-29.09	200	Horz

Vertical 1000 - 5400MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
2	5202.099	38.41	PK	34.2	-35.5	7.1	0.4	44.61	54	-9.39	74	-29.39	200	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
3	11019.89	41.07	PK	37.8	-35.6	10.9	0.2	54.37	54	0.37	74	-19.63	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
4	11014.693	41.63	PK	37.8	-35.6	10.9	0.2	54.93	54	0.93	74	-19.07	100	Vert

Horizontal 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
5	11027.486	31.72	PK	37.8	-35.6	10.9	0.2	45.02	54	-8.98	74	-28.98	100	Horz

Vertical 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	11015.492	31.66	PK	37.8	-35.6	10.9	0.2	44.96	54	-9.04	74	-29.04	100	Vert

Radiated Emissions

Horizontal 7600 - 18000MHz

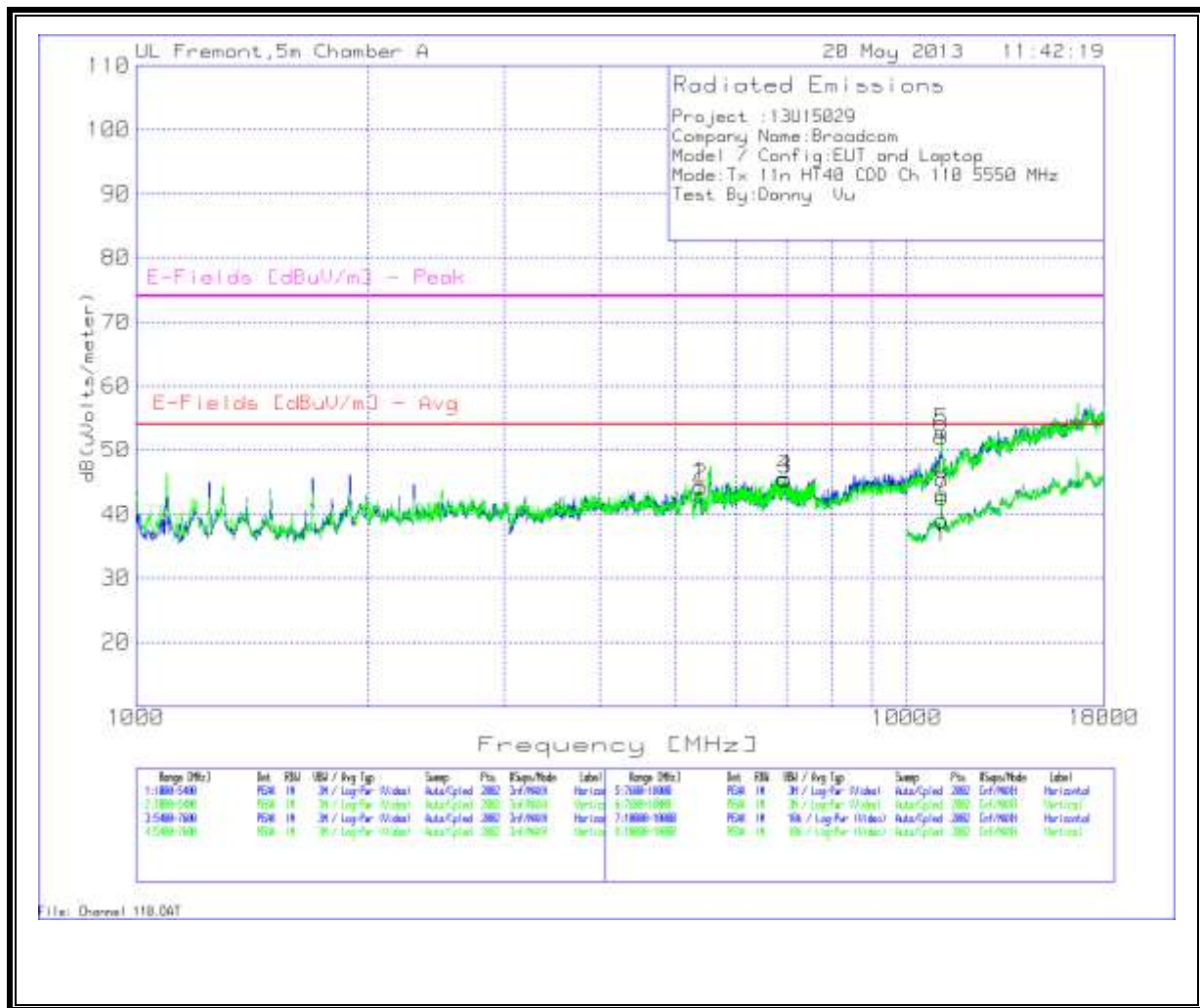
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11019.99	32.52	VB1	37.8	-35.6	10.9	0.2	45.82	54	-8.18	-	-	189	117	Horz

Vertical 7600 - 18000MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
12787.56	24.53	VB1	39.1	-34.5	11.8	0.2	41.13	54	-12.87	-	-	41	238	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

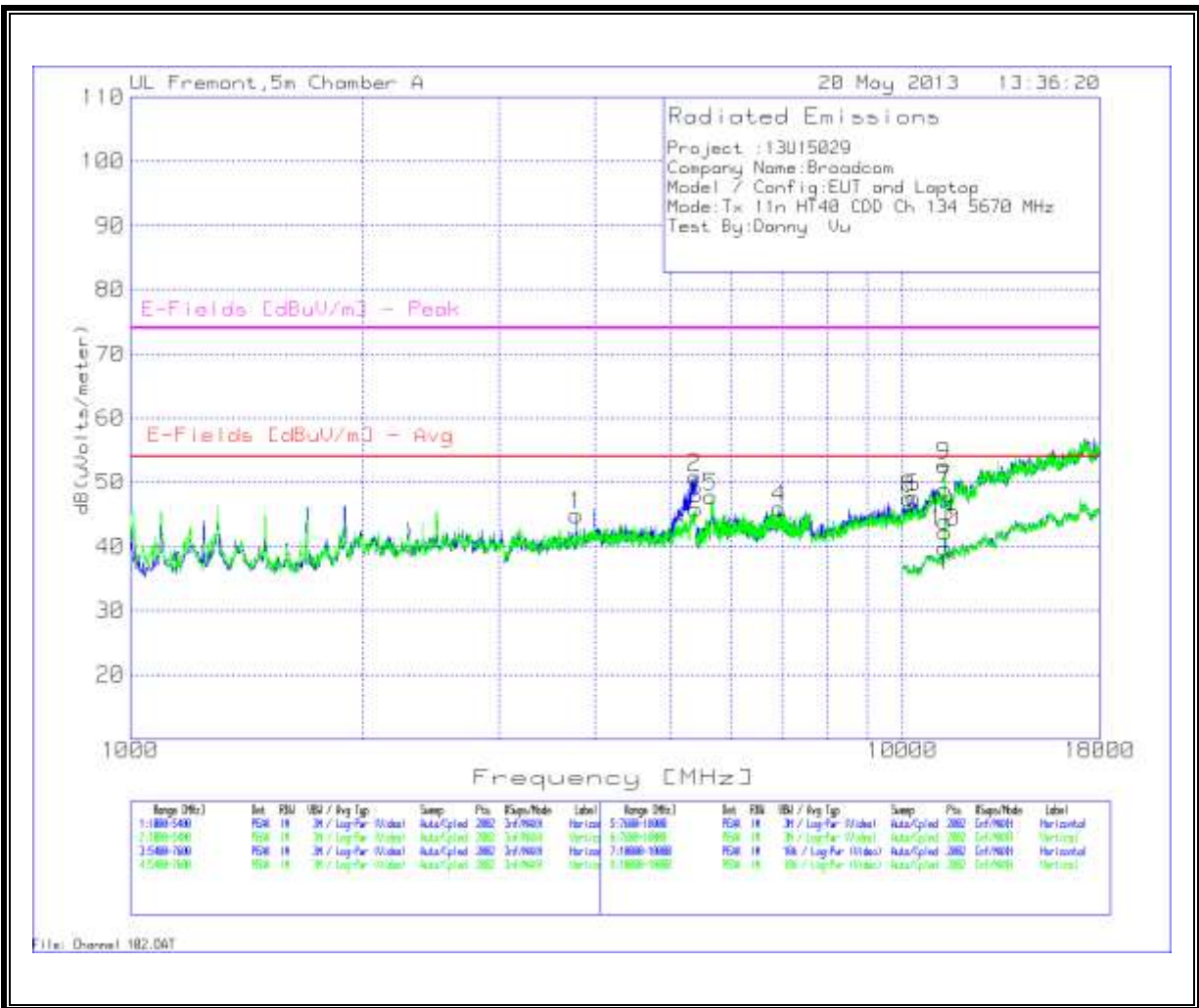
Mid Channel



Trace Markers														
Horizontal 1000 - 5400MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5397.801	37.41	PK	34.4	-35.5	7.2	1	44.51	54	-9.49	74	-29.49	100	Horz
Vertical 1000 - 5400MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
2	5397.801	37.09	PK	34.4	-35.5	7.2	1	44.19	54	-9.81	74	-29.81	100	Vert
Horizontal 5400 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
3	6951.324	37	PK	35.4	-35.6	8.5	0.1	45.4	-	-	68.2	-22.8	200	Horz
Vertical 5400 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
4	6943.628	37.21	PK	35.4	-35.6	8.4	0.2	45.61	-	-	68.2	-22.59	200	Vert
Horizontal 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
5	11097.851	39.55	PK	37.8	-35.6	11	0.2	52.95	54	-1.05	74	-21.05	100	Horz
Vertical 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	11092.654	38.72	PK	37.8	-35.6	11	0.2	52.12	54	-1.88	74	-21.88	100	Vert
Horizontal 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	11099.45	29.25	PK	37.8	-35.6	11	0.2	42.65	54	-11.35	74	-31.35	100	Horz
Vertical 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	11103.448	29.86	PK	37.8	-35.6	11	0.2	43.26	54	-10.74	74	-30.74	100	Vert
Radiated Emissions														
Horizontal 7600 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRP [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11099.64	30.85	VB1	37.8	-35.6	11	0.2	44.25	54	-9.75	-	-	177	119	Horz
Vertical 7600 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRP [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
12794.34	24.39	VB1	39.1	-34.5	11.8	0.3	41.09	54	-12.91	-	-	166	101	Horz

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

High Channel

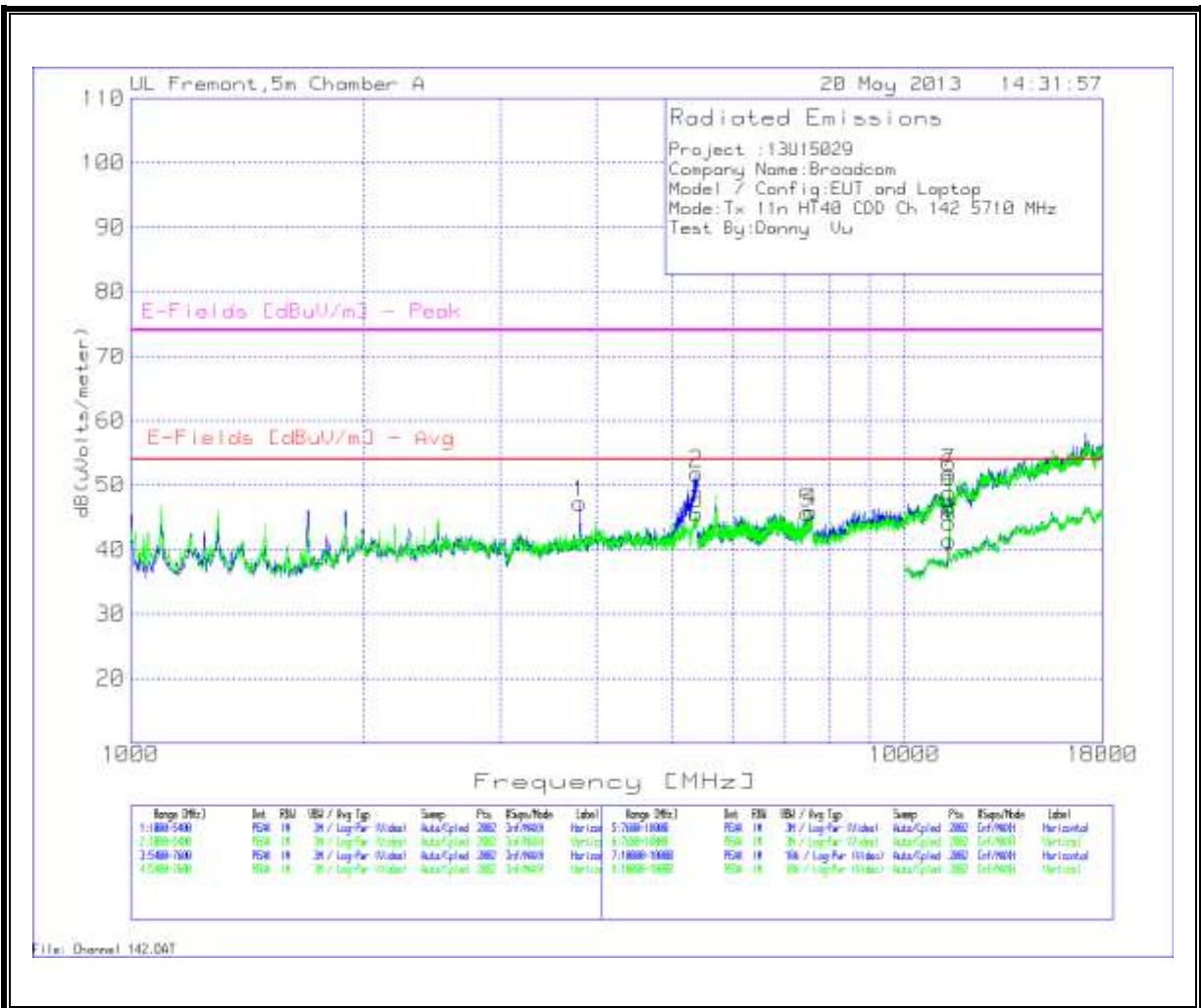


Trace Markers														
Horizontal 1000 - 5400MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	3781.609	41.54	PK	33.5	-36.1	5.8	0.1	44.84	54	-9.16	74	-29.16	200	Horz
2	5389.005	43.74	PK	34.4	-35.5	7.2	1	50.84	54	-3.16	74	-23.16	200	Horz
Vertical 1000 - 5400MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
3	5395.602	38.7	PK	34.4	-35.5	7.2	1	45.8	54	-8.2	74	-28.2	100	Vert
Horizontal 5400 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
4	6928.236	37.55	PK	35.4	-35.6	8.4	0.2	45.95	-	-	68.2	-22.25	100	Horz
Vertical 5400 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
5	5652.874	40.44	PK	34.5	-35.5	7.4	1	47.84	-	-	68.2	-20.36	200	Vert
Horizontal 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	10354.623	35.68	PK	37.4	-36.1	10.6	0.1	47.68	-	-	68.2	-20.52	100	Horz
7	11352.524	35.15	PK	38.1	-35.6	11.1	0.1	48.85	54	-5.15	74	-25.15	100	Horz
Vertical 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	10188.306	35.78	PK	37.2	-36.2	10.5	0.2	47.48	-	-	68.2	-20.72	100	Vert
9	11331.734	38.75	PK	38.1	-35.6	11.1	0.3	52.65	54	-1.35	74	-21.35	100	Vert
Horizontal 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
10	11343.328	28.54	PK	38.1	-35.6	11.1	0.1	42.24	54	-11.76	74	-31.76	100	Horz
Vertical 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
11	11339.33	30.09	PK	38.1	-35.6	11.1	0.2	43.89	54	-10.11	74	-30.11	100	Vert
Radiated Emissions														
Horizontal 1000 - 5400MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
5396.02	25.59	RMS	34.4	-35.5	7.2	1	32.69	54	-21.31	-	-	94	167	Horz
Horizontal 7600 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11357.14	24.82	RMS	38.1	-35.6	11.1	0.1	38.52	54	-15.48	-	-	0	128	Horz
Vertical 7600 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11338.39	30.44	RMS	38.1	-35.6	11.1	0.2	44.24	54	-9.76	-	-	166	133	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

9.2.12. TX ABOVE 1 GHz 802.11n HT40 CDD 2TX MODE CHANNEL 142 IN THE 5.6 GHz BAND

High Channel



Trace Markers

Horizontal 1000 - 5400MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRP [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height (cm)	Polarity
1	3807.996	43.57	PK	33.5	-36.1	5.9	0.3	47.17	54	-6.83	74	-26.83	200	Horz
2	5389.005	44.76	PK	34.4	-35.5	7.2	1	51.86	54	-2.14	74	-22.14	200	Horz

Vertical 1000 - 5400MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRP [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height (cm)	Polarity
3	5389.005	38.49	PK	34.4	-35.5	7.2	1	45.59	54	-8.41	74	-28.41	100	Vert

Horizontal 5400 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRP [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height (cm)	Polarity
4	7558.221	37.06	PK	35.5	-35.8	8.9	0.2	45.86	54	-8.14	74	-28.14	200	Horz

Vertical 5400 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRP [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height (cm)	Polarity
5	7487.856	37.08	PK	35.4	-35.8	8.8	0.2	45.68	54	-8.32	74	-28.32	200	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	11420.09	37.07	PK	38.2	-35.6	11.1	0.5	51.27	54	-2.73	74	-22.73	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	11425.287	37.74	PK	38.2	-35.6	11.1	0.5	51.94	54	-2.06	74	-22.06	100	Vert

Horizontal 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	11419.29	29.93	PK	38.2	-35.6	11.1	0.5	44.13	54	-9.87	74	-29.87	100	Horz

Vertical 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRP [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
9	11419.29	31.4	PK	38.2	-35.6	11.1	0.5	45.6	54	-8.4	74	-28.4	100	Vert

Radiated Emissions

Horizontal 1000 - 5400MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRP [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
5392.92	26.22	RMS	34.4	-35.5	7.2	1	33.32	54	-20.68	-	-	241	107	Horz

Horizontal 7600 - 18000MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRP [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11425.15	25.88	RMS	38.2	-35.6	11.1	0.5	40.08	54	-13.92	-	-	307	198	Horz

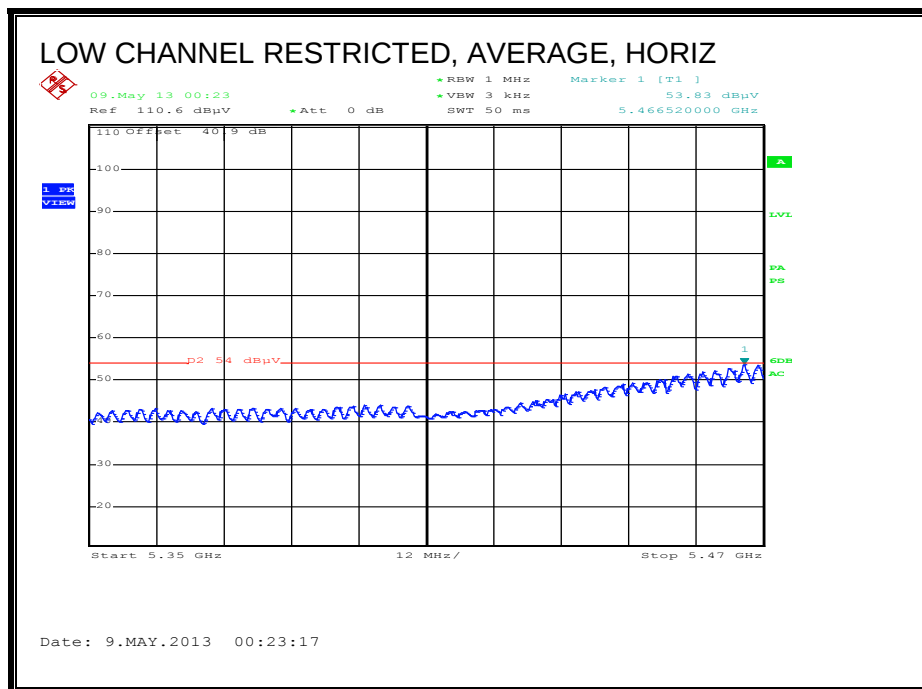
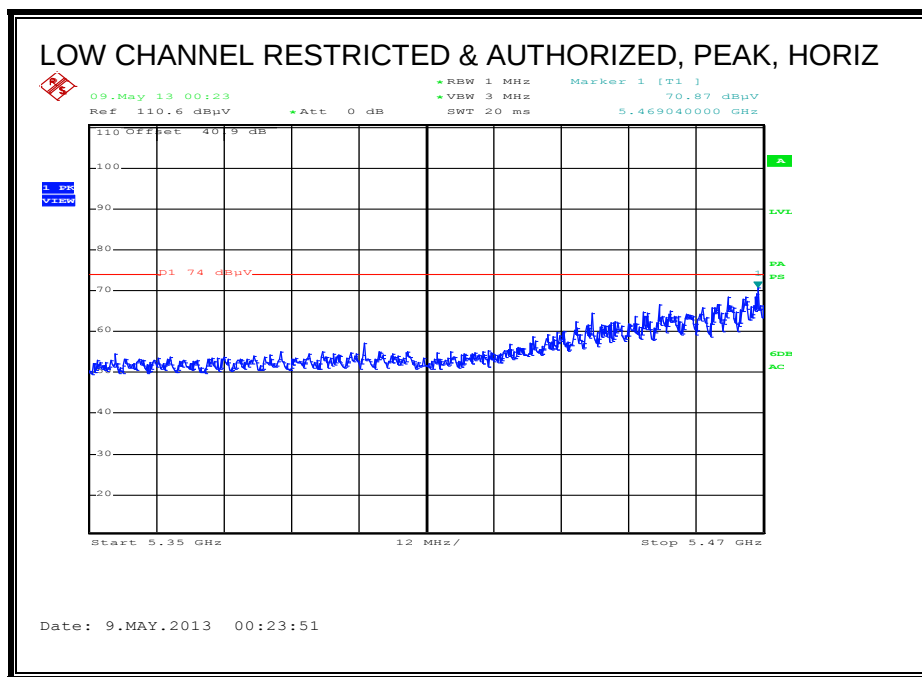
Vertical 7600 - 18000MHz

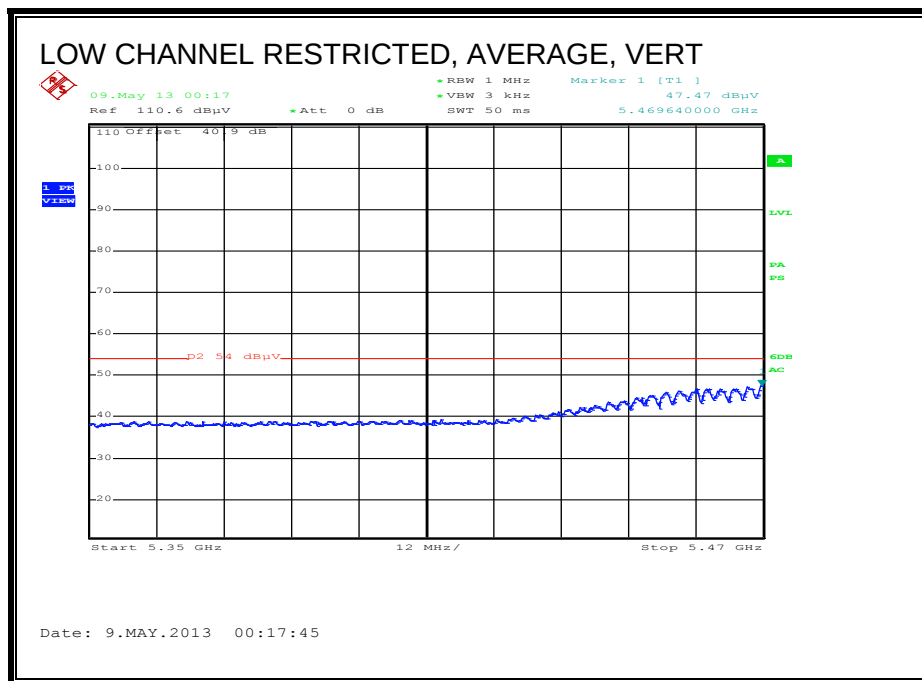
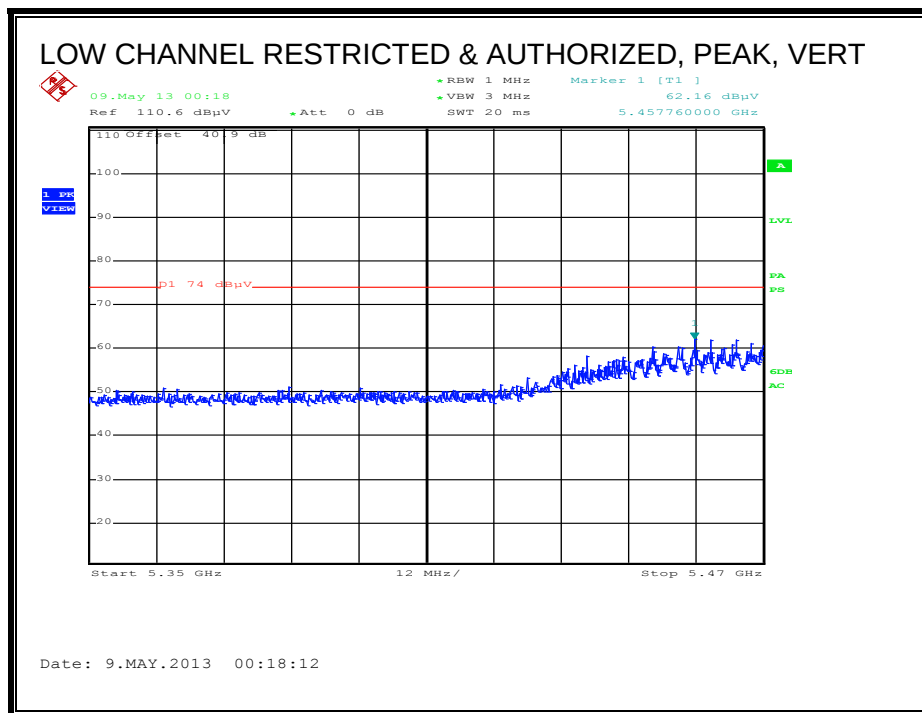
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRP [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11421.91	30.71	RMS	38.2	-35.6	11.1	0.5	44.91	54	-9.09	-	-	150	148	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

9.2.13. TX ABOVE 1 GHz 802.11n HT80 CDD 2TX MODE IN THE 5.6 GHz BAND

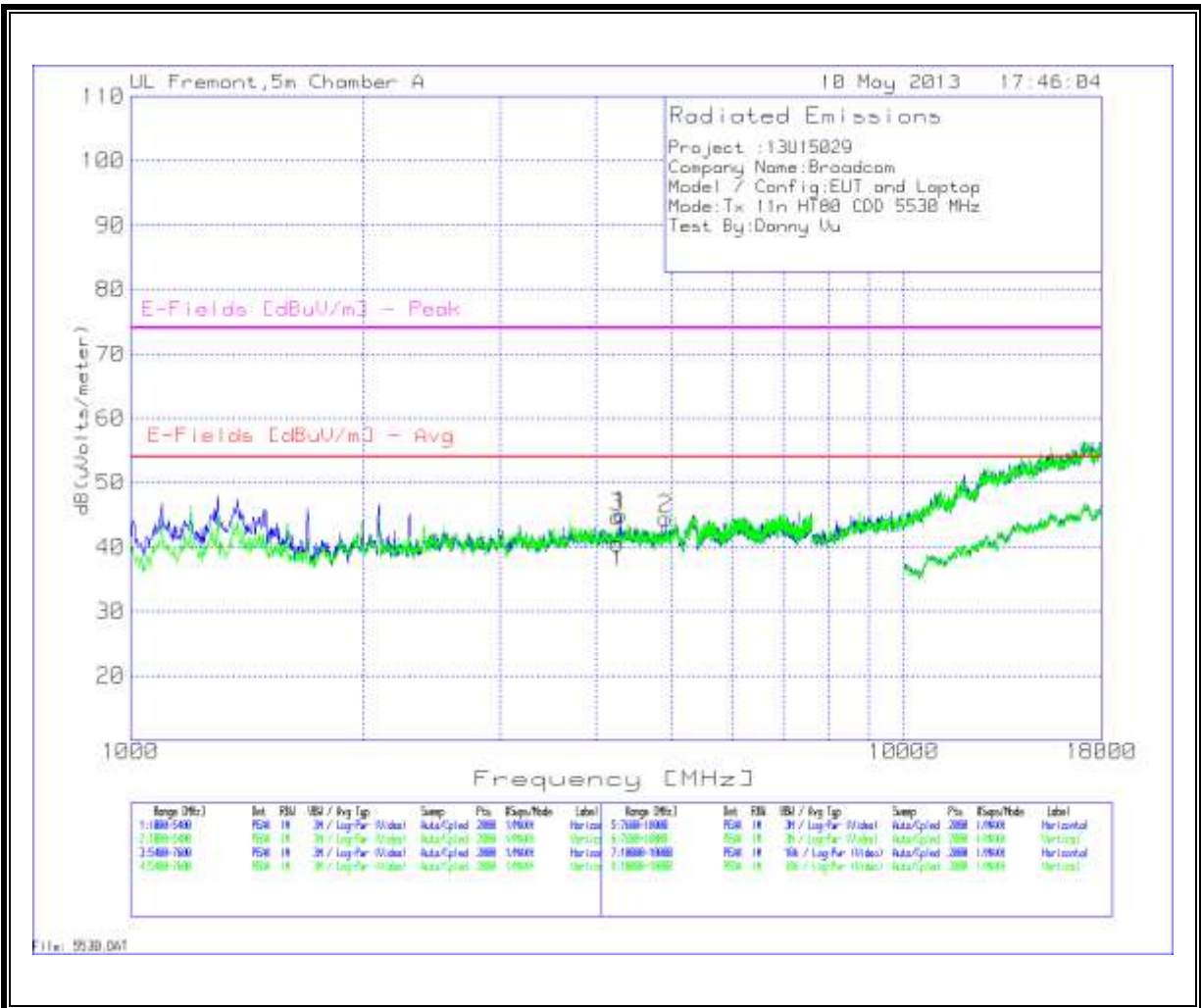
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

Low Channel



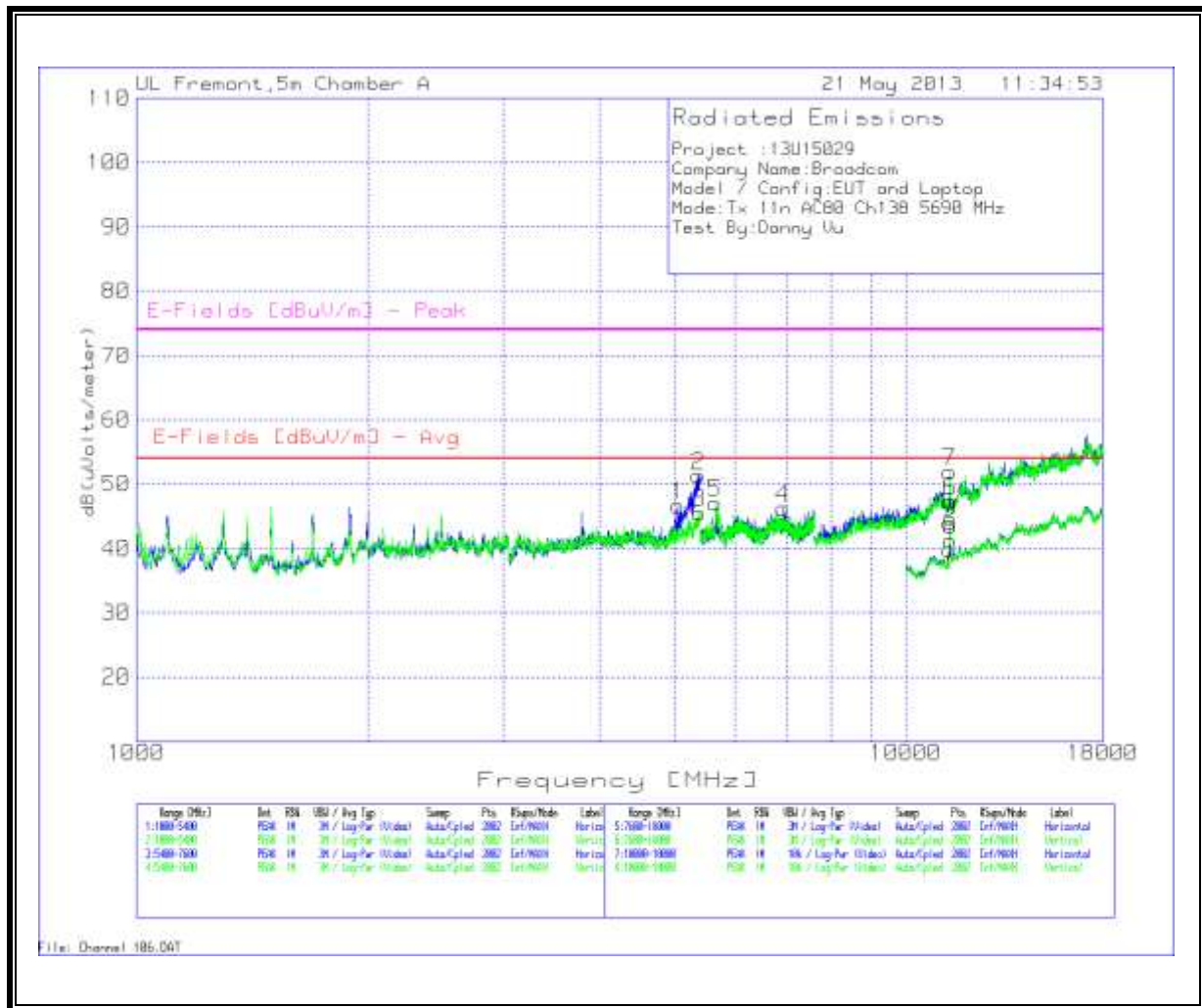
Trace Markers														
Horizontal 1000 - 5400MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5342.829	38.43	PK	34.3	-35.5	7.2	1	45.43	-	-	68.2	-22.77	100	Horz
Vertical 1000 - 5400MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
2	5395.602	37.09	PK	34.4	-35.5	7.2	1	44.19	54	-9.81	74	-29.81	200	Vert
Horizontal 5400 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
3	5517.641	39.9	PK	34.4	-35.5	7.3	1	47.1	-	-	68.2	-21.1	200	Horz
Vertical 5400 - 7600MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
4	5507.746	39.3	PK	34.4	-35.5	7.3	1	46.5	-	-	68.2	-21.7	200	Vert
Horizontal 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
5	11040.68	38.14	PK	37.8	-35.6	10.9	0.2	51.44	54	-2.56	74	-22.56	100	Horz
Vertical 7600 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	11077.061	39.37	PK	37.8	-35.6	10.9	0.4	52.87	54	-1.13	74	-21.13	100	Vert
Horizontal 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	11091.454	27.48	PK	37.8	-35.6	11	0.3	40.98	54	-13.02	74	-33.02	100	Horz
Vertical 10000 - 18000MHz														
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	11091.454	28.9	PK	37.8	-35.6	11	0.3	42.4	54	-11.6	74	-31.6	100	Vert
Radiated Emissions														
Horizontal 7600 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11036	27.18	VB1	37.8	-35.6	10.9	0.2	40.48	54	-13.52	-	-	325	144	Horz
Vertical 7600 - 18000MHz														
Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11069.8	28.95	VB1	37.8	-35.6	10.9	0.4	42.45	54	-11.55	-	-	139	140	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

9.2.14. TX ABOVE 1 GHz 802.11n HT80 CDD 2TX MODE CHANNEL 138 IN THE 5.6 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

High Channel



Trace Markers

Horizontal 1000 - 5400MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
1	5059.17	41.24	PK	34	-35.6	6.9	0.2	46.74	54	-7.26	74	-27.26	200	Horz
2	5373.613	44.22	PK	34.4	-35.5	7.2	1	51.32	54	-2.68	74	-22.68	200	Horz

Vertical 1000 - 5400MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
3	5391.204	38.44	PK	34.4	-35.5	7.2	1	45.54	54	-8.46	74	-28.46	200	Vert

Horizontal 5400 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
4	6923.838	37.91	PK	35.4	-35.6	8.4	0.2	46.31	-	-	68.2	-21.89	200	Horz

Vertical 5400 - 7600MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
5	5658.371	39.66	PK	34.5	-35.5	7.4	1	47.06	-	-	68.2	-21.14	200	Vert

Horizontal 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
6	11420.09	33.21	PK	38.2	-35.6	11.1	0.5	47.41	54	-6.59	74	-26.59	100	Horz

Vertical 7600 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
7	11394.103	37.95	PK	38.2	-35.6	11.1	0.3	51.95	54	-2.05	74	-22.05	100	Vert

Horizontal 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
8	11403.298	27.24	PK	38.2	-35.6	11.1	0.4	41.34	54	-12.66	74	-32.66	100	Horz

Vertical 10000 - 18000MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB (uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Height (cm)	Polarity
9	11399.3	29.95	PK	38.2	-35.6	11.1	0.4	44.05	54	-9.95	74	-29.95	100	Vert

Radiated Emissions

Horizontal 1000 - 5400MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
5365.97	25.74	VB1	34.4	-35.5	7.2	1	32.84	54	-21.16	-	-	126	107	Horz

Horizontal 7600 - 18000MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11388.8	24.08	VB1	38.2	-35.6	11.1	0.3	38.08	54	-15.92	-	-	348	106	Horz

Vertical 7600 - 18000MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/meter)	E-Fields Limit [dBuV/m] - Avg	Average Margin (dB)	E-Fields Limit [dBuV/m] - Peak	Peak Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
11397.84	27.86	VB1	38.2	-35.6	11.1	0.4	41.96	54	-12.04	-	-	256	137	Vert

Note: There were no other emissions found above the system noise floor. A peak limit of 68.2 dBuV/m denotes a frequency found in a non-restricted band.

9.3. WORST-CASE BELOW 1 GHz

VERTICAL & HORIZONTAL DATA

Project : 13U15029
Company: Broadcom Corporation
Config: EUT with laptop
Mode: TX; Worst case
Test By: K. Nguyen

Horizontal 30 - 1000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T185 Antenna Factor (dB/m)	T64 preamp/cable loss [dB]	Corrected Reading dBuV	E-Fields [dBuV/m] - QPk	Margin (dB)	Height [cm]	Polarity
1	30.9693	29.02	PK	20.5	-27.7	21.82	40	-18.18	100	Horz
2	215.8581	48.28	PK	10.5	-26.1	32.68	43.52	-10.84	100	Horz
3	239.8476	55.94	PK	11.6	-26.2	41.34	46.02	-4.68	100	Horz
4	399.7777	52.65	PK	15.5	-25.2	42.95	46.02	-3.07	100	Horz
5	799.6028	41.2	PK	21	-23	39.2	46.02	-6.82	100	Horz

Vertical 30 - 1000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T185 Antenna Factor (dB/m)	T64 preamp/cable loss [dB]	Corrected Reading dBuV	E-Fields [dBuV/m] - QPk	Margin (dB)	Height [cm]	Polarity
6	31.4539	30.41	PK	20.1	-27.7	22.81	40	-17.19	100	Vert
7	132.5006	32.3	PK	13.8	-26.9	19.2	43.52	-24.32	100	Vert
8	399.7777	41.78	PK	15.5	-25.2	32.08	46.02	-13.94	100	Vert
9	599.6902	44.91	PK	18.3	-23.7	39.51	46.02	-6.51	100	Vert
10	799.6028	33.4	PK	21	-23	31.4	46.02	-14.62	100	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection
PK1 - KDB 789033 v01r02 G)5) Method: Peak
AD1 - KDB 789033 v01r02 G)6) Method: AD Primary Power Average
VB1 - KDB 789033 v01r02 G)6) Method: VB Alternative Reduced Video
PK2 - KDB558074 v02 10.2.3.2/8.1.1 Method: Maximum Peak
MAv1 - KDB558074 v02 10.2.3.2/8.2.1 Option 1 Maximum RMS Average
MAv2 - KDB558074 v02 10.2.3.3/8.2.2 Option 2 Slow Sweep RMS Average

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

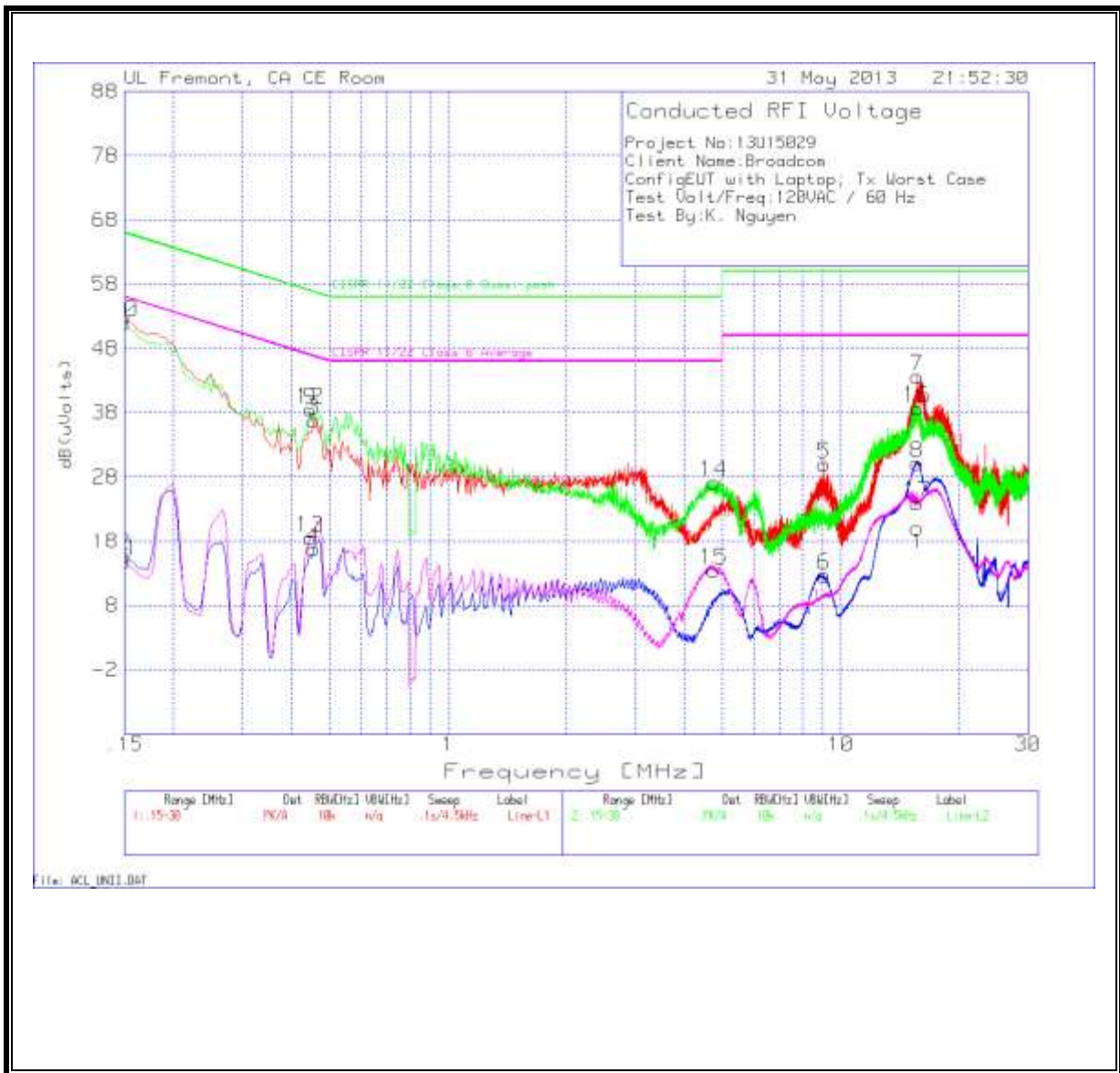
TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

LINE 1 & LINE 2 RESULTS



6 WORST EMISSIONS

Project No:	13U15029
Client Name:	Broadcom
Config:	EUT with Laptop; Tx Worst Case
Test Volt/Freq:	120VAC / 60 Hz
Test By:	K. Nguyen

Line-L1 .15 - 30MHz									
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T24 IL L1(dB)	LC Cables(dB)	dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Peak Margin	CISPR 11/22 Class B Average	Average Margin
0.15	52.79	PK	0.1	0	52.89	66	-13.11	-	-
0.15	15.7	Av	0.1	0	15.8	-	-	56	-40.2
0.456	36.67	PK	0.1	0	36.77	56.8	-20.03	-	-
0.456	16.75	Av	0.1	0	16.85	-	-	46.8	-29.95
9.06	29.76	PK	0.1	0.1	29.96	60	-30.04	-	-
9.06	12.52	Av	0.1	0.1	12.72	-	-	50	-37.28
15.675	43.28	PK	0.2	0.2	43.68	60	-16.32	-	-
15.675	29.68	Av	0.2	0.2	30.08	-	-	50	-19.92

Line-L2 .15 - 30MHz									
Test Frequency	Meter Reading	Detector	T24 IL L2 (dB)	LC Cables (dB)	dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Peak Margin	CISPR 11/22 Class B Average	Average Margin
0.15	51.88	PK	0.1	0	51.98	66	-14.02	-	-
0.15	14.84	Av	0.1	0	14.94	-	-	56	-41.06
0.447	38.45	PK	0.1	0	38.55	56.9	-18.35	-	-
0.447	18.42	Av	0.1	0	18.52	-	-	46.9	-28.38
4.749	26.99	PK	0.1	0.1	27.19	56	-28.81	-	-
4.749	13.29	Av	0.1	0.1	13.49	-	-	46	-32.51
15.675	38.39	PK	0.2	0.2	38.79	60	-21.21	-	-
15.675	23.57	Av	0.2	0.2	23.97	-	-	50	-26.03

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

11. DYNAMIC FREQUENCY SELECTION

11.1. OVERVIEW

11.1.1. LIMITS

INDUSTRY CANADA

IC RSS-210 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-210 Issue 7 A9.4 (b) (ii) **Channel Availability Check Time:** ...

Additional requirements for the band 5600-5650 MHz: Until further notice, devices subject to this Section shall not be capable of transmitting in the band 5600-5650 MHz, so that Environment Canada weather radars operating in this band are protected.

RSS-210 Issue 7 A9.4 (b) (iv) **Channel closing time:** the maximum channel closing time is 260 ms.

FCC

§15.407 (h) and FCC 06-96 APPENDIX "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVCIES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION".

Table 1: Applicability of DFS requirements prior to use of a channel

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

Table 2: Applicability of DFS requirements during normal operation

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

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.	

Table 4: DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds
<i>Channel Closing Transmission Time</i>	200 milliseconds + approx. 60 milliseconds over remaining 10 second period
The instant that the <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> begins is as follows: For the Short pulse radar Test Signals this instant is the end of the <i>Burst</i>. For the Frequency Hopping radar Test Signal, this instant is the end of the last radar burst generated. For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission. The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate channel changes (an aggregate of approximately 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.	

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Table 6 – Long Pulse Radar Test Signal

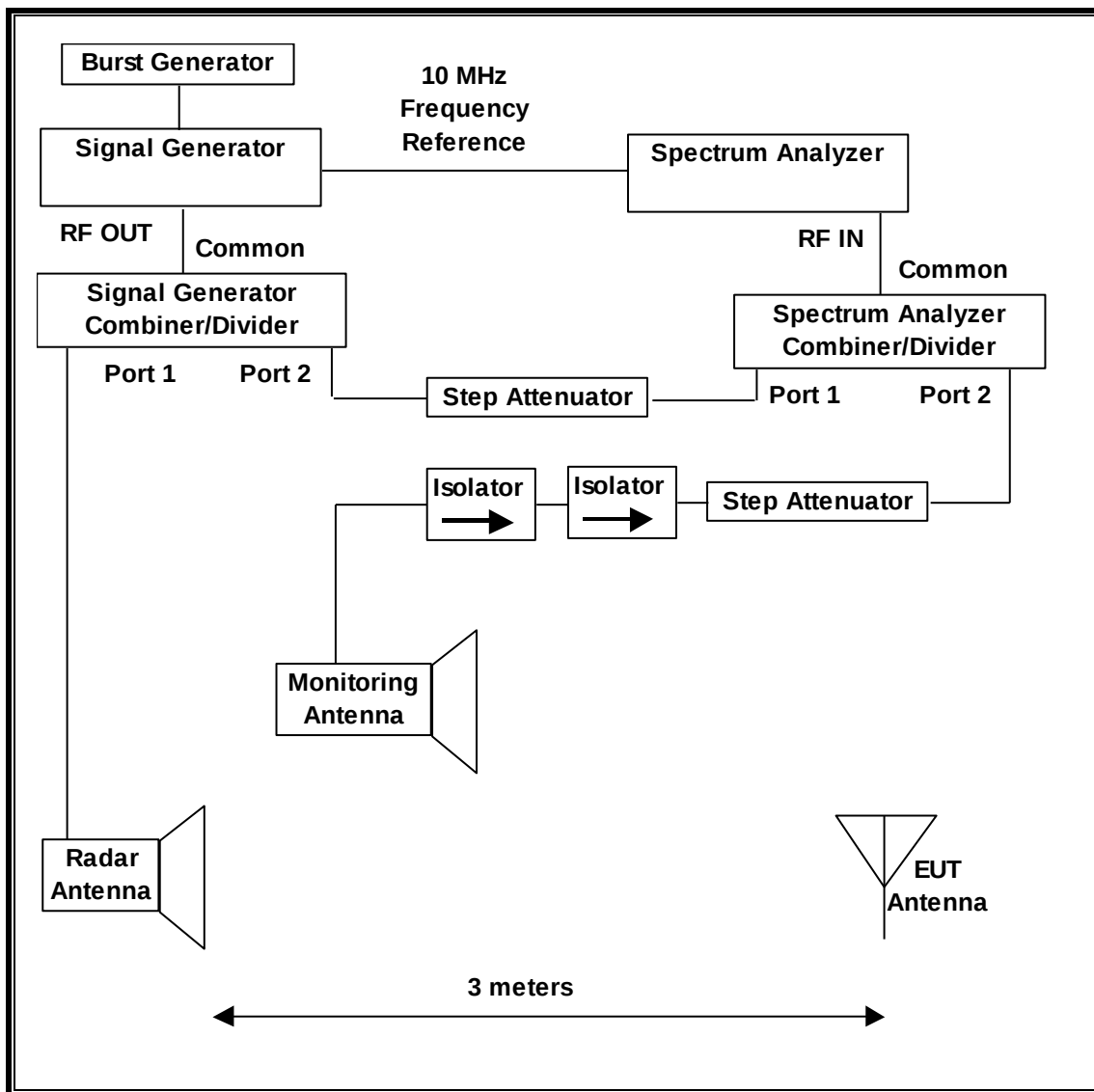
Radar Waveform	Bursts	Pulses per Burst	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Minimum Percentage of Successful Detection	Minimum Trials
5	8-20	1-3	50-100	5-20	1000-2000	80%	30

Table 7 – Frequency Hopping Radar Test Signal

Radar Waveform	Pulse Width (μsec)	PRI (μsec)	Burst Length (ms)	Pulses per Hop	Hopping Rate (kHz)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	300	9	.333	70%	30

11.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96 APPENDIX. The frequency of the signal generator is incremented in 1 MHz steps from F_L to F_H for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

SYSTEM CALIBRATION

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is –64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. The video test file is streamed to generate WLAN traffic. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

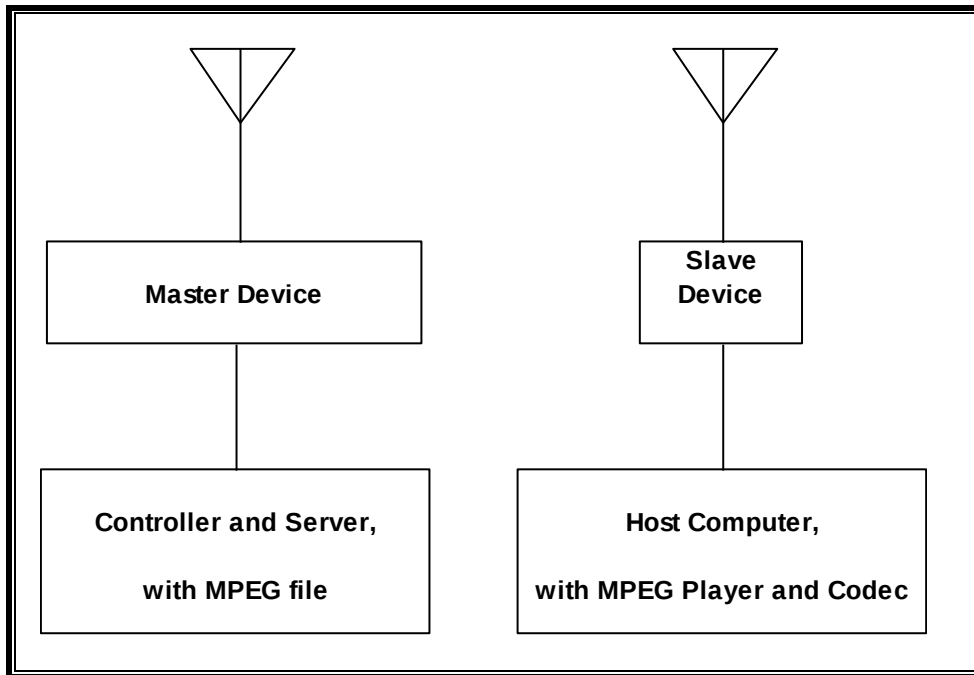
TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the DFS tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset Number	Cal Due
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	08/18/13
Vector Signal Generator, 20GHz	Agilent / HP	E8267C	C01066	11/20/13

11.1.3. SETUP OF EUT

RADIATED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

The following support equipment was utilized for the DFS tests documented in this report:

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
N600 Wireless Dual Band Router (Master Device)	Netgear	WNDR3400	2BK311730FF6B	PY309300116
AC Adapter (AP)	Netgear	FA-1201500SJA / FA-1201500SUA	4F105116T10209045B	DoC
Notebook PC (Controller/Server)	HP	Pavilion zv6000	CND5290401	DoC
AC Adapter (Controller/Server PC)	HP	PA-1121-12HD	58B240ALLRK0HU	DoC
Tablet PC (Hosr)	HP	Elitebook 2730p	2CE8487ZMT	DoC
AC Adapter (Host PC)	HiPro Electronics	PPP009H	W978B0HA9W787I	DoC

11.1.4. DESCRIPTION OF EUT

The EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges.

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 27.89 dBm EIRP in the 5250-5350 MHz band and 29.96 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly consists of 2 identical antennas with individual gains of 4.5 dBi in the 5250-5350 MHz band and 6.6 dBi in the 5470-5725 MHz band.

Two identical antennas are utilized to meet the diversity and MIMO operational requirements.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63$ dBm.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm. The tested level is lower than the required level hence it provides margin to the limit.

The EUT uses two transmitter/receiver chains, each connected to an antenna to perform radiated tests.

WLAN traffic exceeding the transmitter minimum activity ratio of 30% is generated by streaming the compressed video file "6 ½ Magic Hours" from the Master to the Slave in full motion video.

TPC is required since the maximum EIRP is greater than 500 mW (27 dBm).

The EUT utilizes the 802.11a/n/ac architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz. However, only 20 MHz and 40 MHz channel bandwidths were tested because there were not any FCC certified master devices available at the time testing was performed.

The software installed in the access point used during testing was Linux revision 5.22.84.0.

UNIFORM CHANNEL SPREADING

This requirement is not applicable to Slave radio devices.

MANUFACTURER'S STATEMENT REGARDING UNIFORM CHANNEL SPREADING

This is not applicable to slave devices.

OVERVIEW OF MASTER DEVICE WITH RESPECT TO §15.407 (h) REQUIREMENTS

The Master Device is a Netgear N600 Dual Band Router, FCC ID: PY309300116. The DFS software installed in the Master Device is Linux revision 5.22.84.0. The minimum antenna gain for the Master Device is 2.73 dBi.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm.

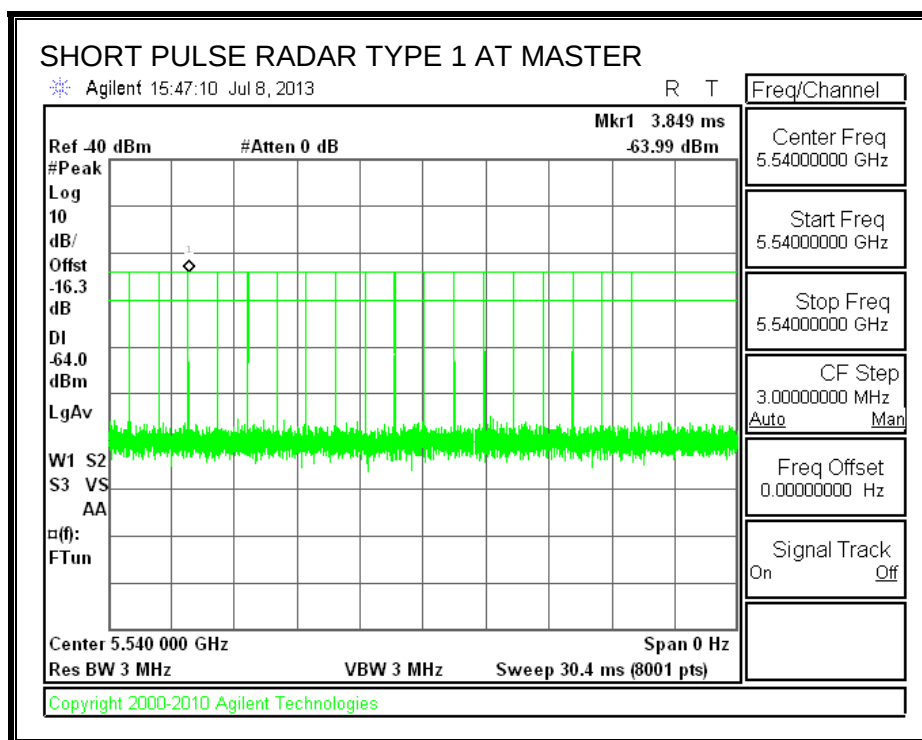
11.2. RESULTS FOR 20 MHz BANDWIDTH

11.2.1. TEST CHANNEL

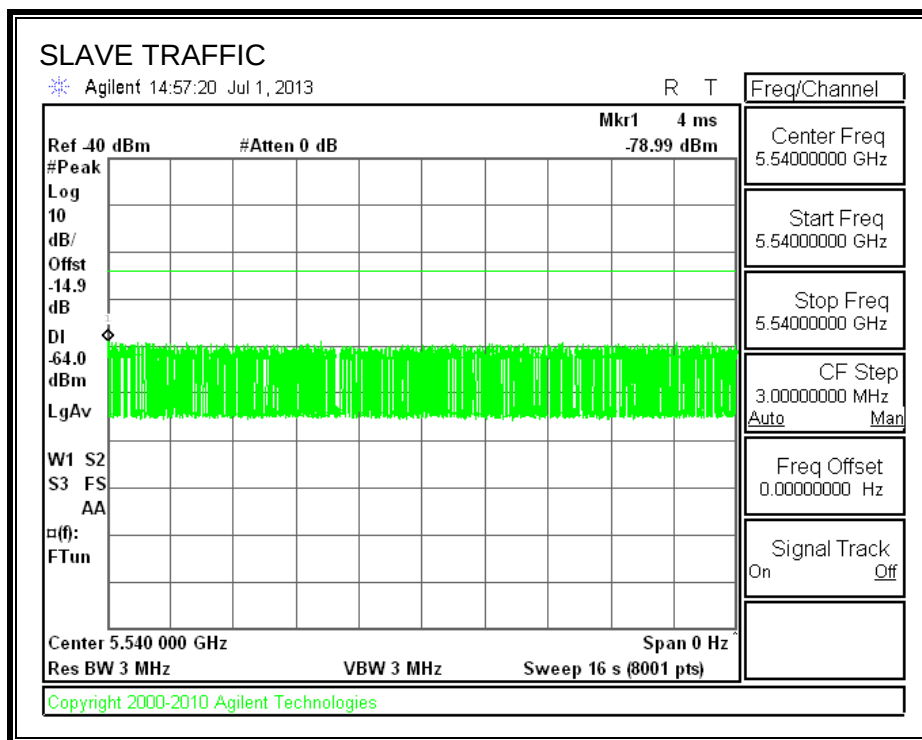
All tests were performed at a channel center frequency of 5540 MHz.

11.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



11.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the FCC aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

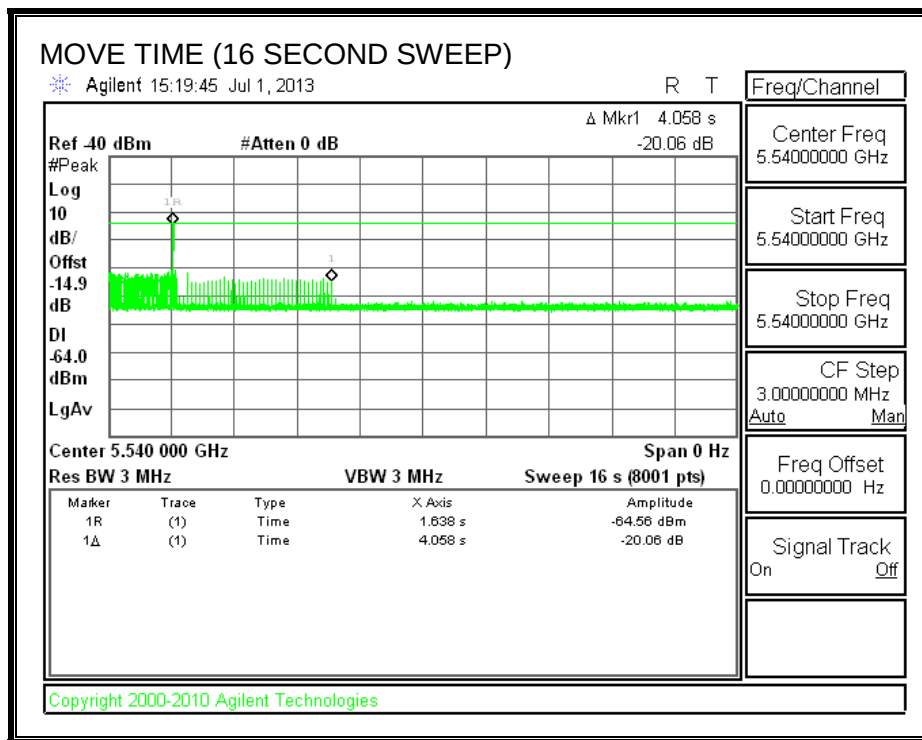
The observation period over which the IC aggregate time is calculated begins at (Reference Marker) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

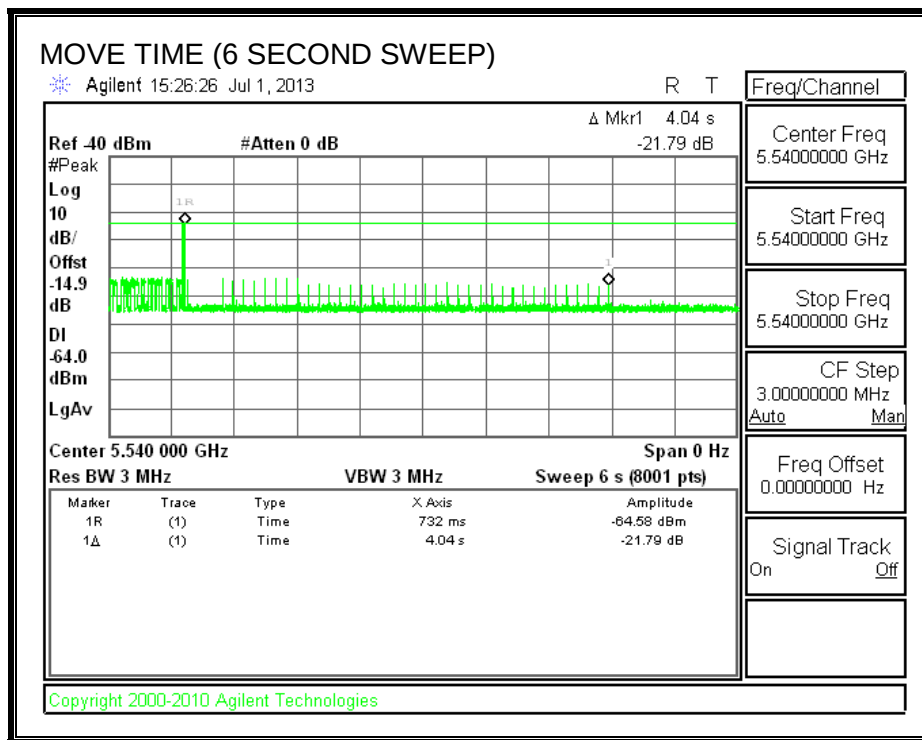
Agency	Channel Move Time (sec)	Limit (sec)
FCC / IC	4.040	10

Agency	Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
FCC	28.5	60
IC	29.25	260

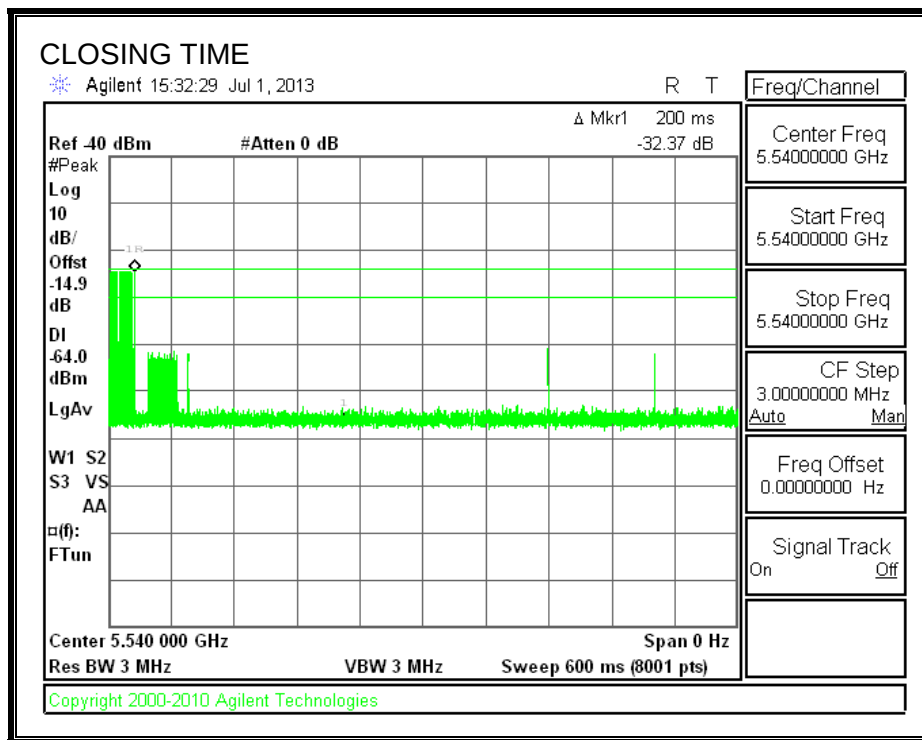
MOVE TIME (16 SECOND SWEEP)



MOVE TIME (6 SECOND SWEEP)

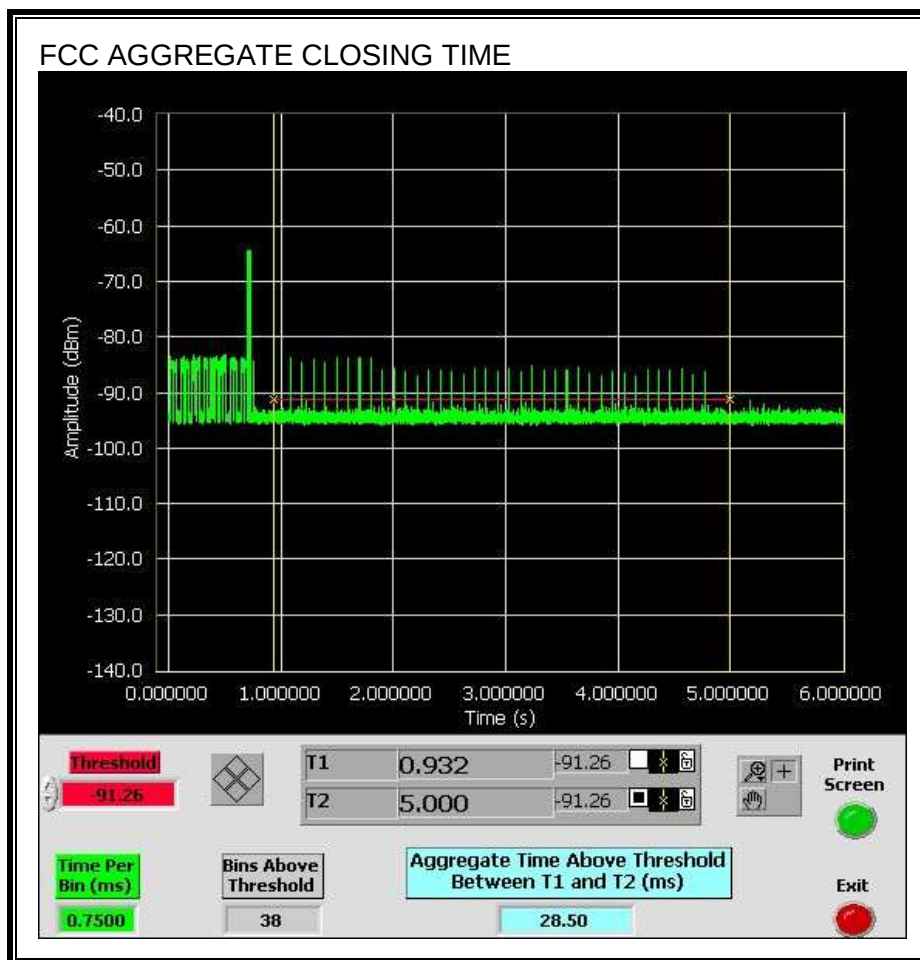


CHANNEL CLOSING TIME

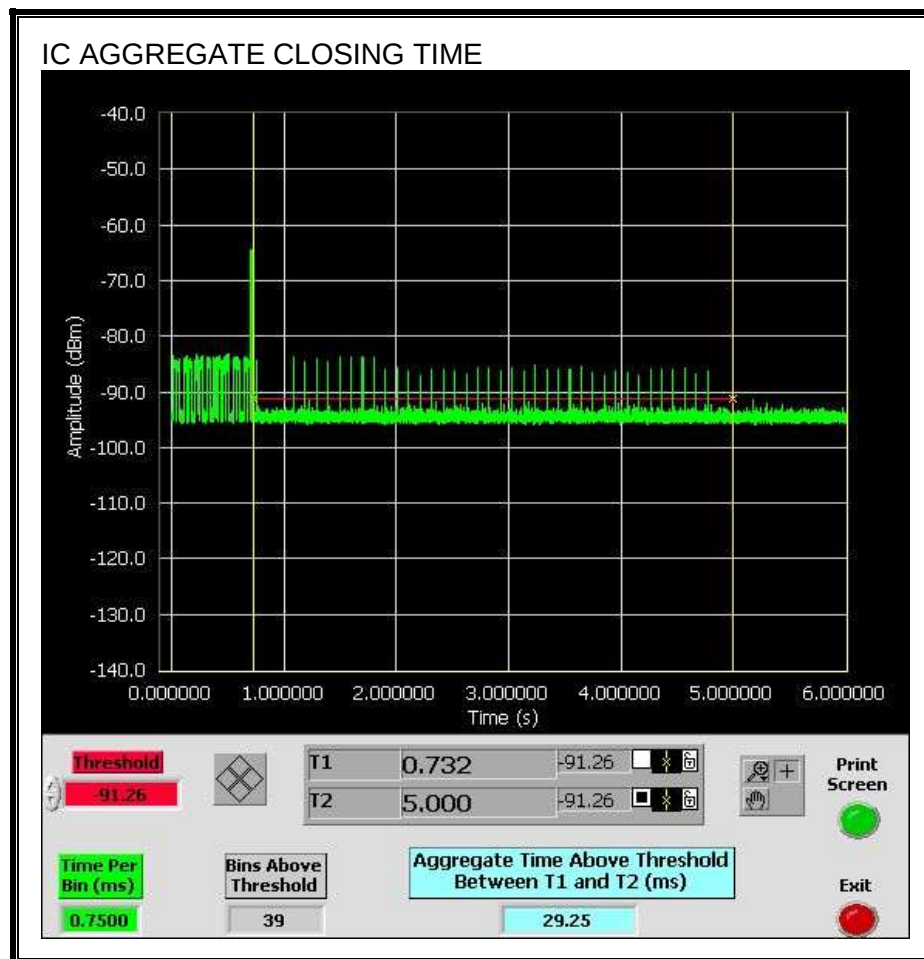


AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the FCC aggregate monitoring period.



Only intermittent transmissions are observed during the IC aggregate monitoring period.



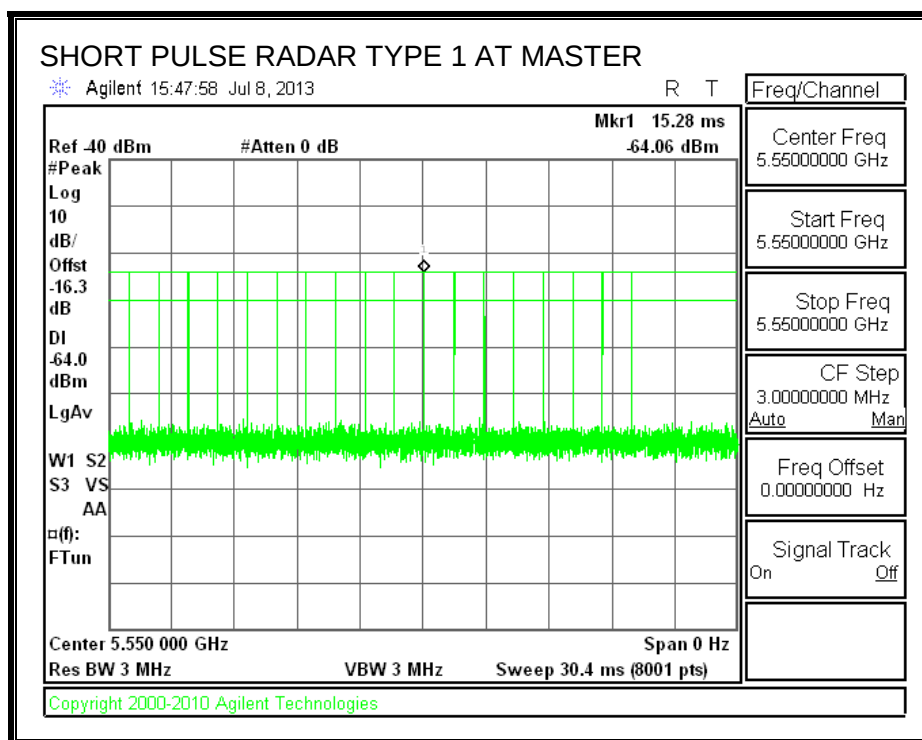
11.3. RESULTS FOR 40 MHz BANDWIDTH

11.3.1. TEST CHANNEL

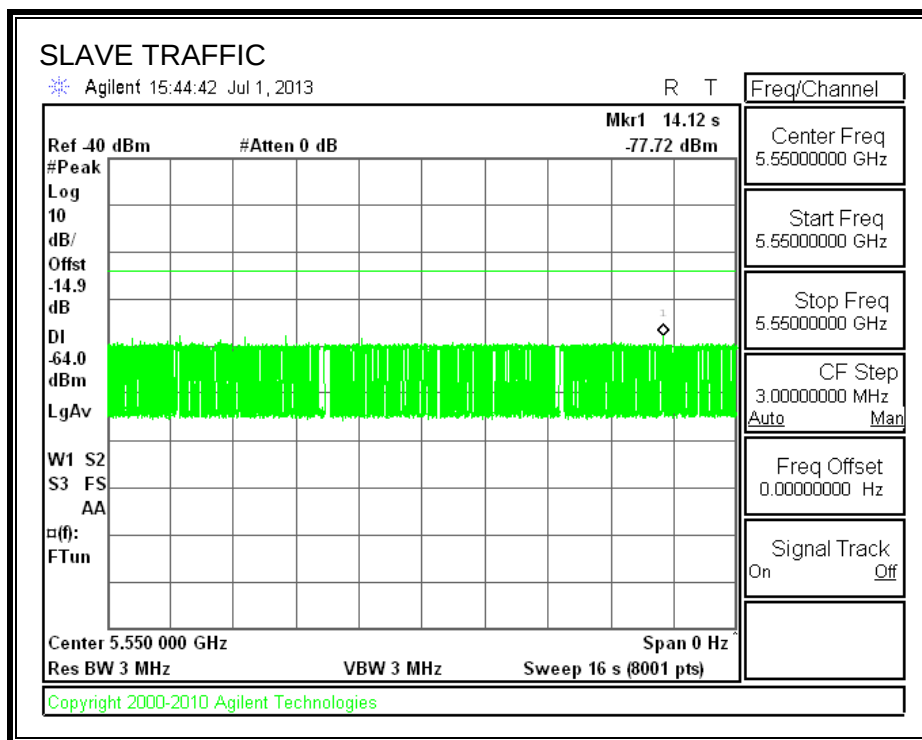
All tests were performed at a channel center frequency of 5550 MHz.

11.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



11.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.3.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the FCC aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

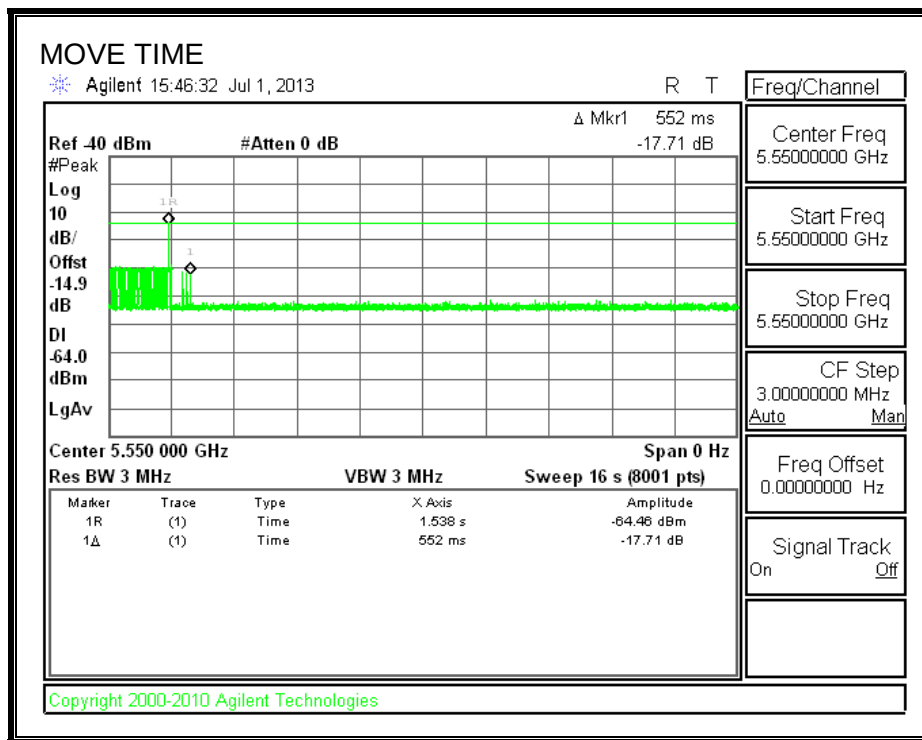
The observation period over which the IC aggregate time is calculated begins at (Reference Marker) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

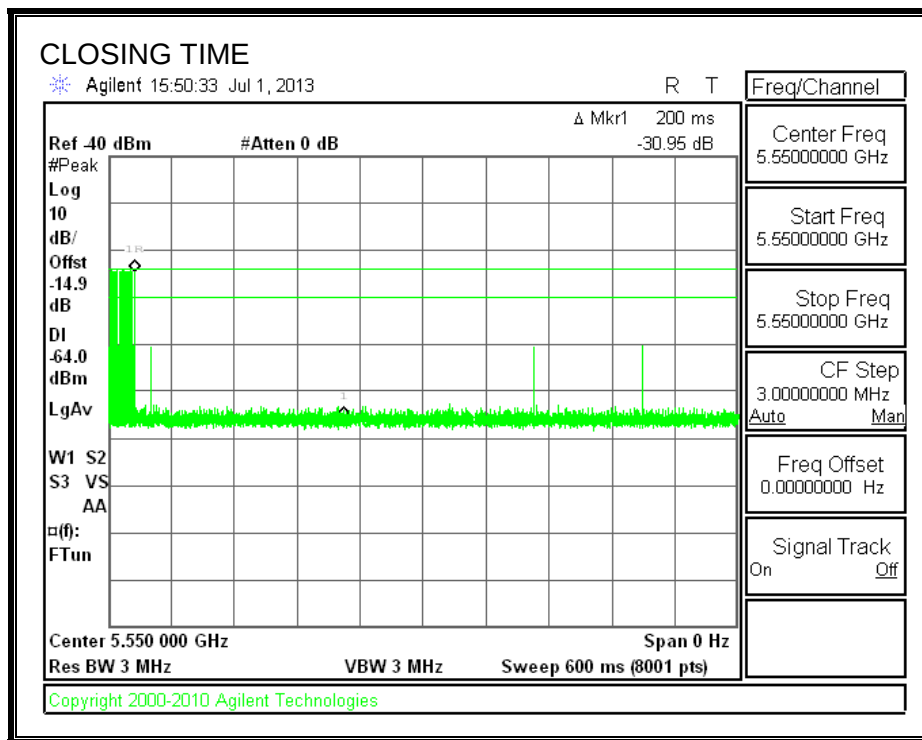
Agency	Channel Move Time (sec)	Limit (sec)
FCC / IC	0.552	10

Agency	Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
FCC	6.0	60
IC	32.0	260

MOVE TIME

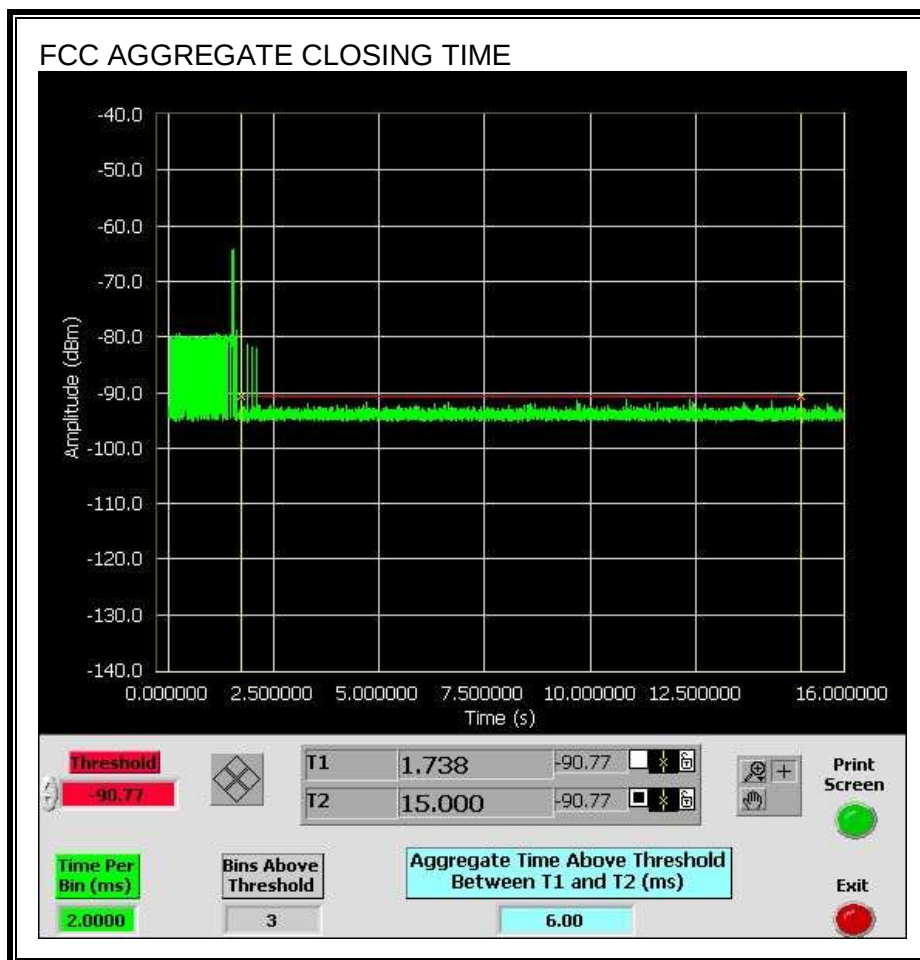


CHANNEL CLOSING TIME

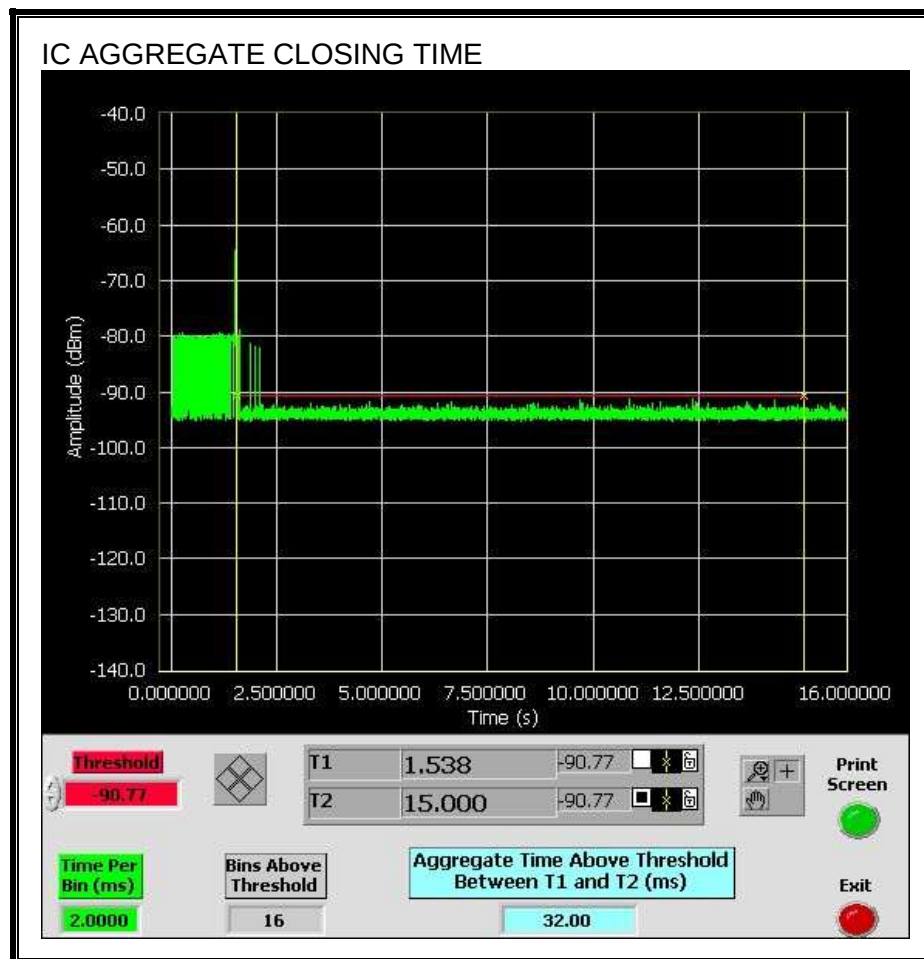


AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the FCC aggregate monitoring period.



Only intermittent transmissions are observed during the IC aggregate monitoring period.



11.3.5. NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.

