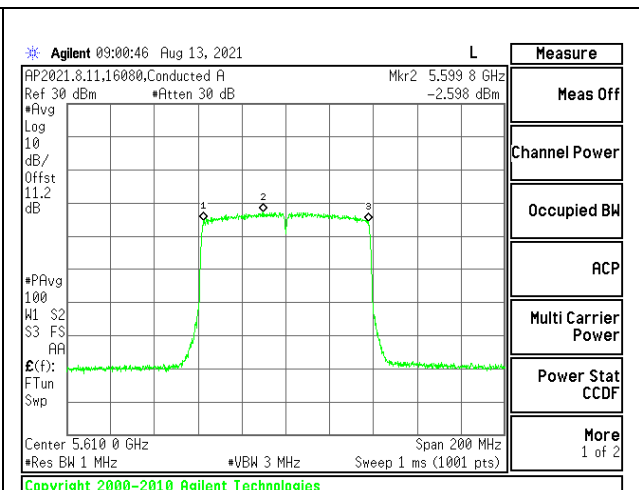
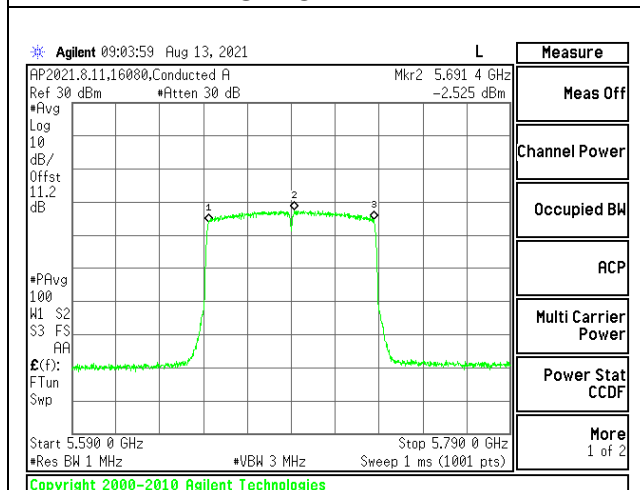


LOW CHANNEL



HIGH CHANNEL



CHANNEL 138

Intentionally left blank

1TX Antenna 2 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5530	83.60	74.415	4.50
High	5610	83.60	75.396	4.50
138	5690	76.70	72.665	4.50

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5610	24.00	24.00	30.00	24.00	11.00	11.00	11.00
138	5690	24.00	24.00	30.00	24.00	11.00	11.00	11.00

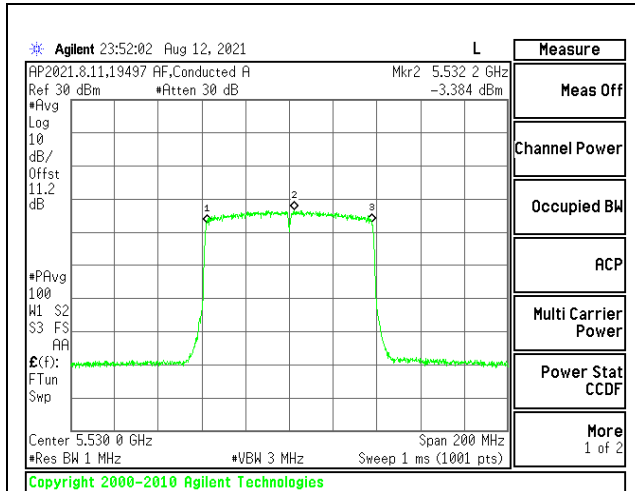
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

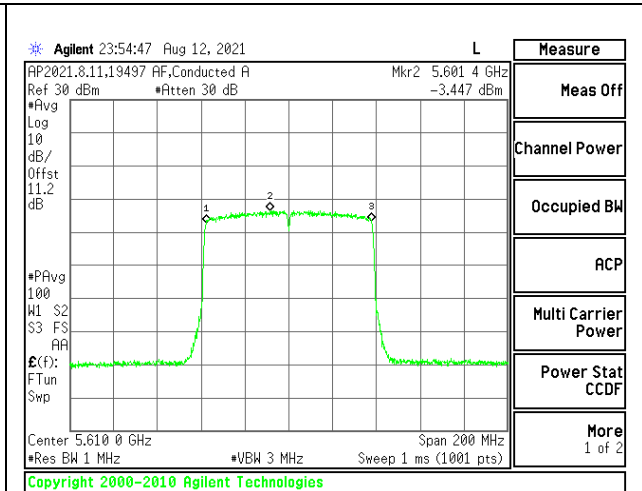
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	13.35	13.35	24.00	-10.65
High	5610	13.42	13.42	24.00	-10.58
138	5690	13.47	13.47	24.00	-10.53

PSD Results

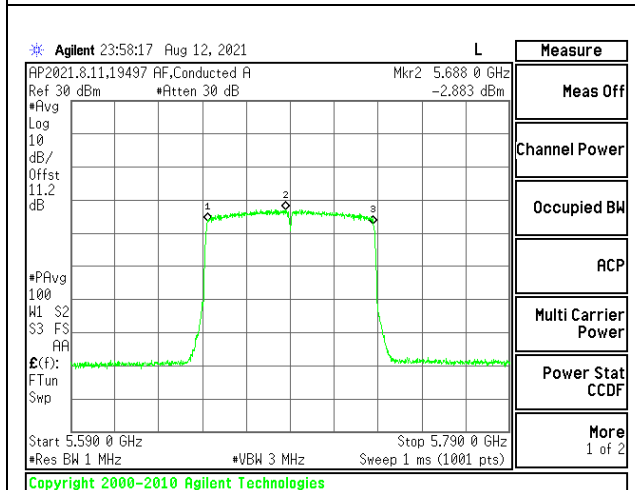
Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	-3.38	-3.38	11.00	-14.38
High	5610	-3.45	-3.45	11.00	-14.45
138	5690	-2.88	-2.88	11.00	-13.88



LOW CHANNEL



HIGH CHANNEL



CHANNEL 138

Intentionally left blank

2TX Antenna 1 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	83.00	75.386	4.03	7.02
High	5610	83.20	75.270	4.03	7.02
*138	5690	76.60	72.686	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	30.00	24.00	9.98	11.00	9.98
High	5610	24.00	24.00	30.00	24.00	9.98	11.00	9.98
*138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

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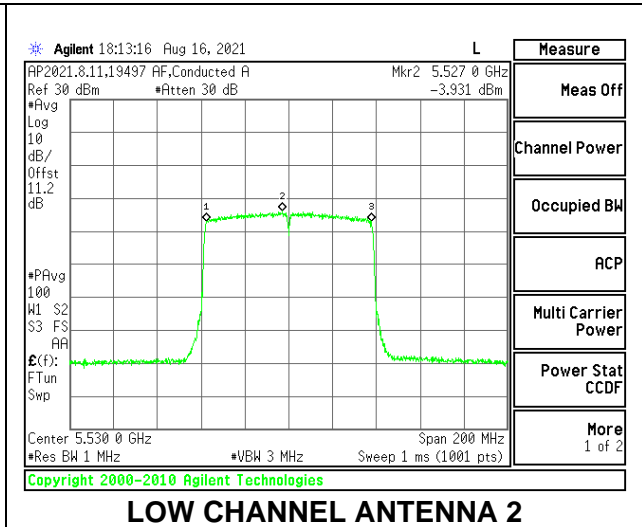
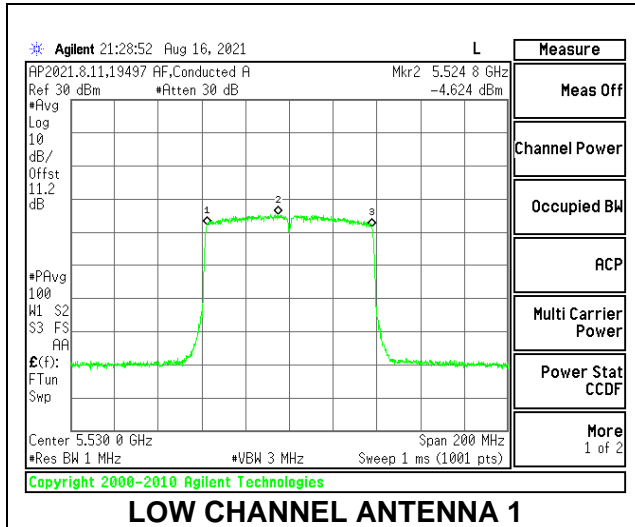
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	12.70	12.91	15.82	24.00	-8.18
High	5610	12.72	13.31	16.04	24.00	-7.96
*138	5690	12.54	13.30	15.95	24.00	-8.05

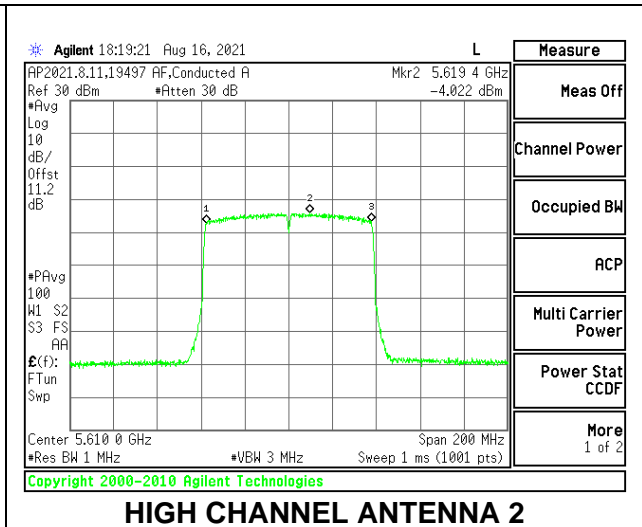
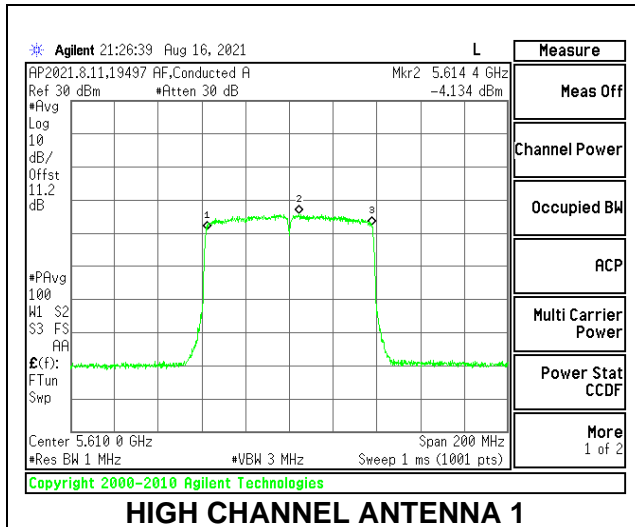
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	-4.62	-3.93	-1.25	9.98	-11.23
High	5610	-4.13	-4.02	-1.07	9.98	-11.05
*138	5690	-3.67	-3.69	-0.67	9.98	-10.65

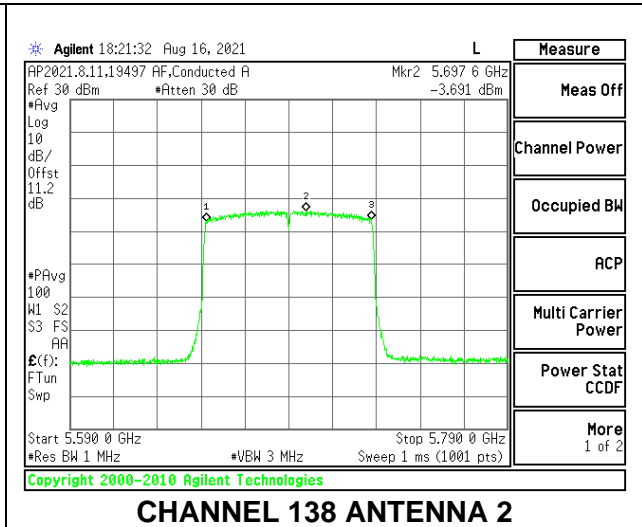
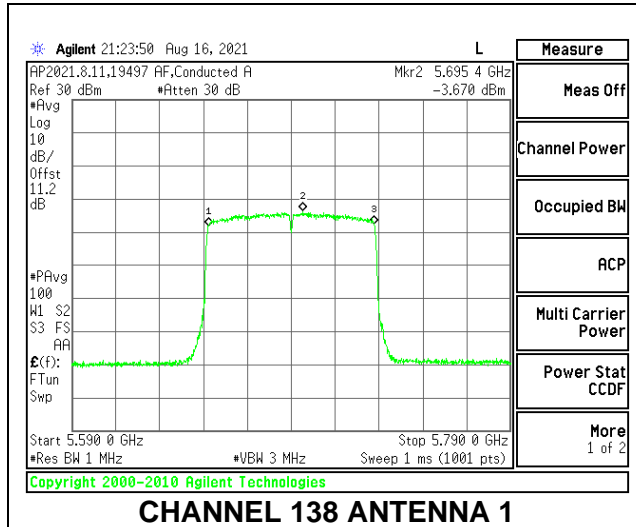
LOW CHANNEL



HIGH CHANNEL



CHANNEL 138



9.5.14. 802.11ac VHT160 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5570	168.00	154.289	3.50

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	11.00	11.00	11.00

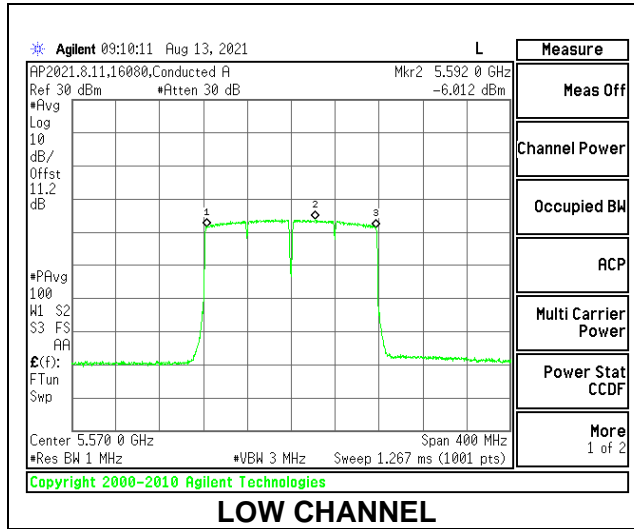
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5570	14.36	14.36	24.00	-9.64

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5570	-6.01	-6.01	11.00	-17.01



1TX Antenna 2 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5570	168.40	154.570	4.50

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	11.00	11.00	11.00

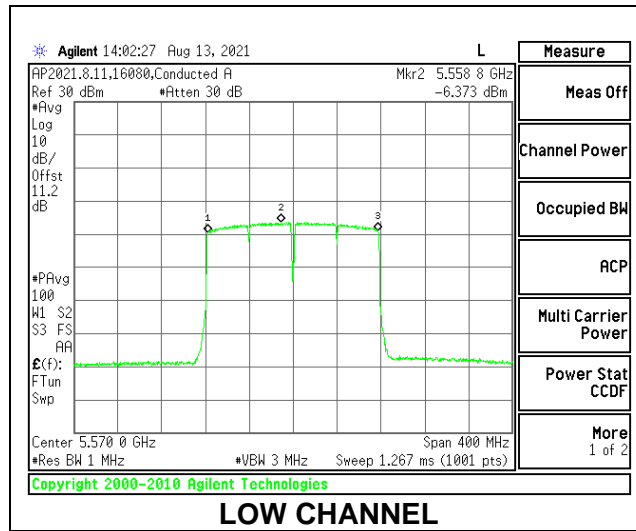
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5570	13.11	13.11	24.00	-10.89

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5570	-6.37	-6.37	11.00	-17.37



2TX Antenna 1 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5570	167.60	154.221	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	9.98	11.00	9.98

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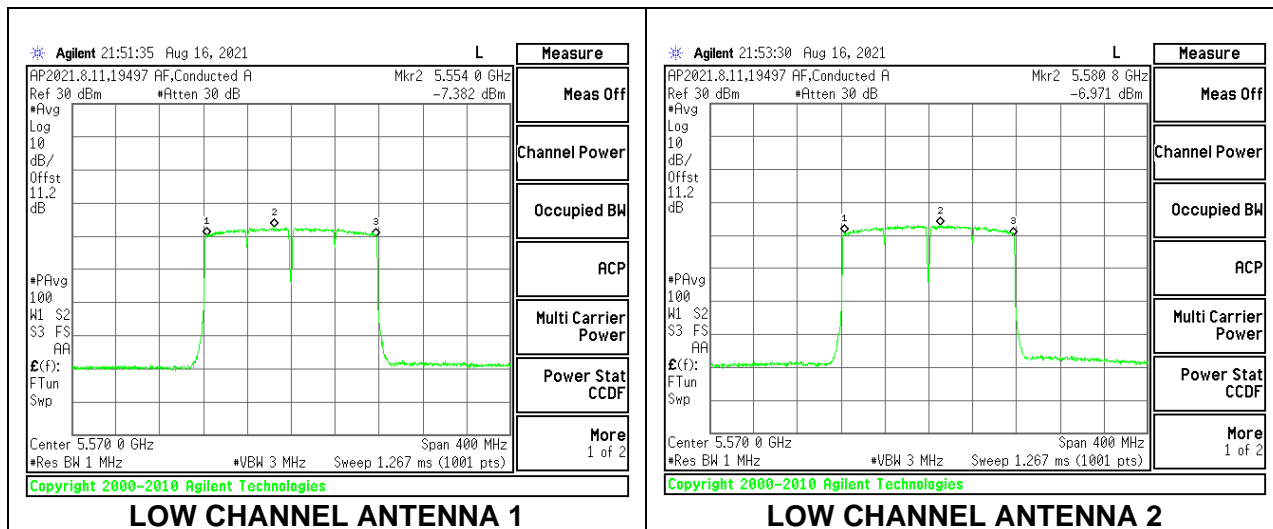
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5570	12.44	12.95	15.71	24.00	-8.29

PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5570	-7.38	-6.97	-4.16	9.98	-14.14

LOW CHANNEL



9.5.15. 802.11a MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	3.90	30.00	30.00
Mid	5785	3.90	30.00	30.00
High	5825	3.90	30.00	30.00

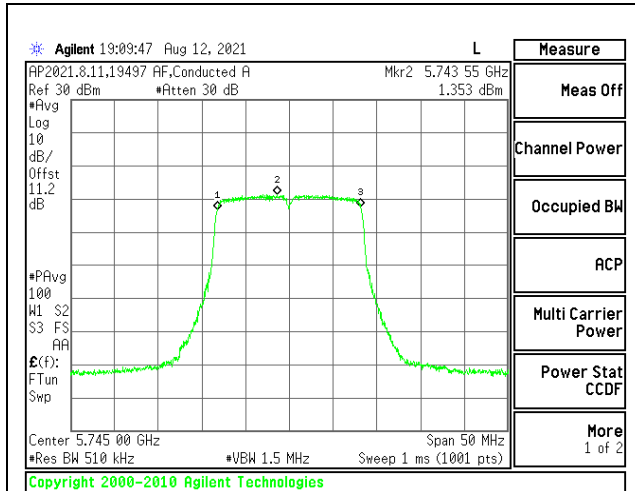
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

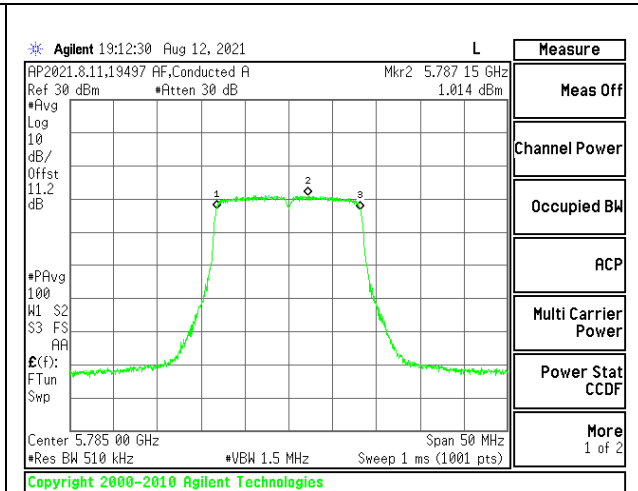
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	14.06	14.06	30.00	-15.94
Mid	5785	14.11	14.11	30.00	-15.89
High	5825	14.26	14.26	30.00	-15.74

PSD Results

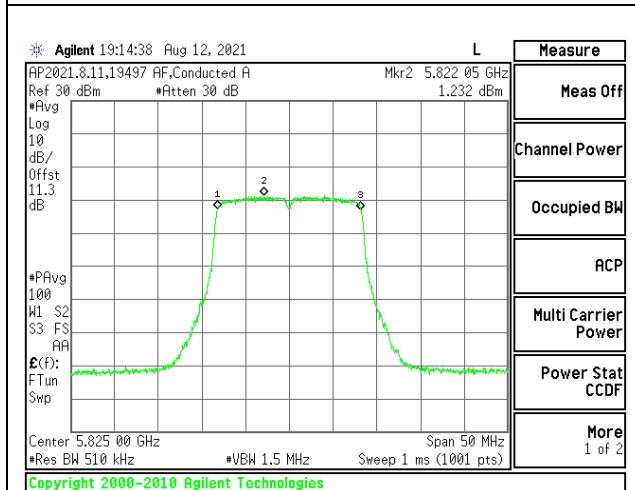
Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	1.35	1.35	30.00	-28.65
Mid	5785	1.01	1.01	30.00	-28.99
High	5825	1.23	1.23	30.00	-28.77



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

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1TX Antenna 2 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	4.50	30.00	30.00
Mid	5785	4.50	30.00	30.00
High	5825	4.50	30.00	30.00

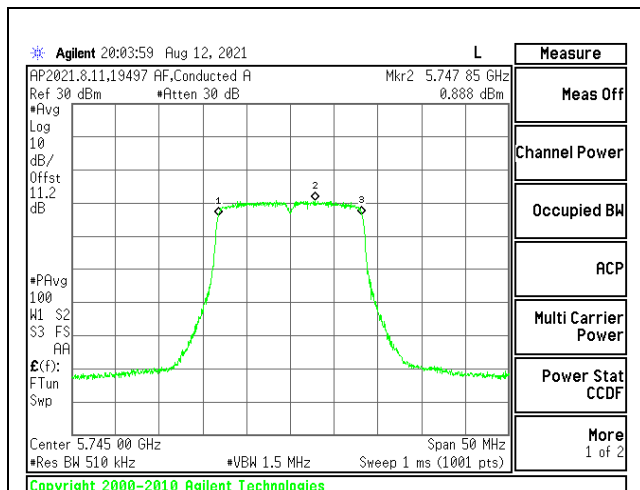
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

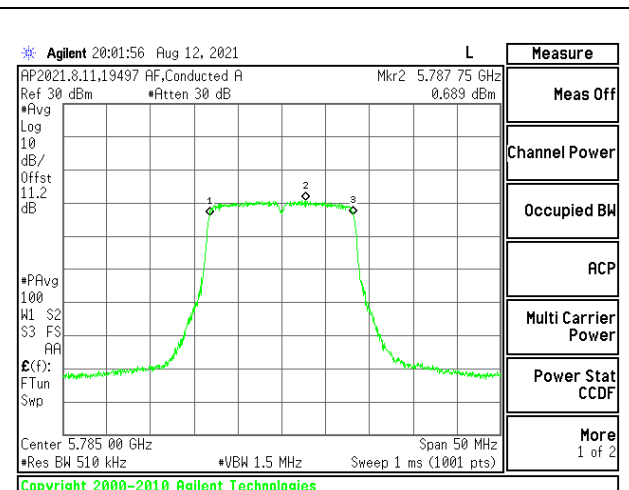
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	13.91	13.91	30.00	-16.09
Mid	5785	14.02	14.02	30.00	-15.98
High	5825	14.10	14.10	30.00	-15.90

PSD Results

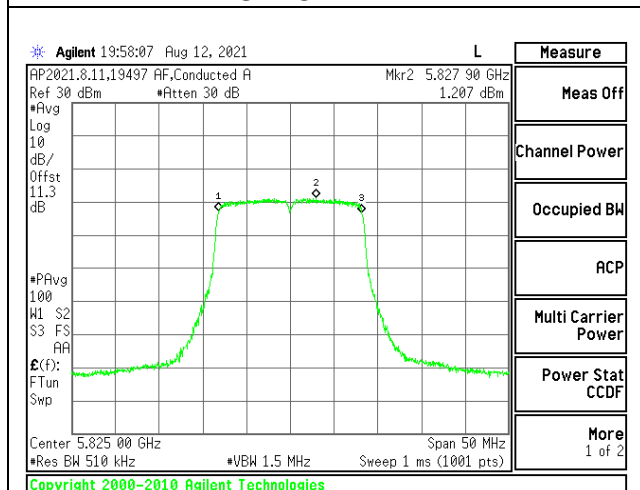
Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	0.89	0.89	30.00	-29.11
Mid	5785	0.69	0.69	30.00	-29.31
High	5825	1.21	1.21	30.00	-28.79



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Intentionally left blank

2TX Antenna 1 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	4.21	7.22	30.00	28.78
Mid	5785	4.21	7.22	30.00	28.78
High	5825	4.21	7.22	30.00	28.78

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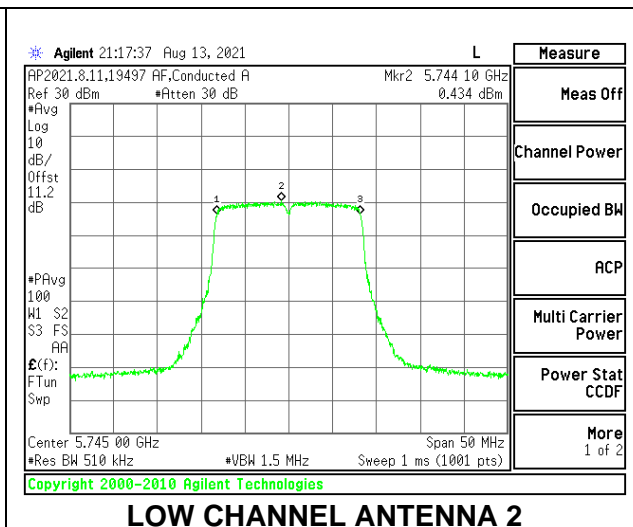
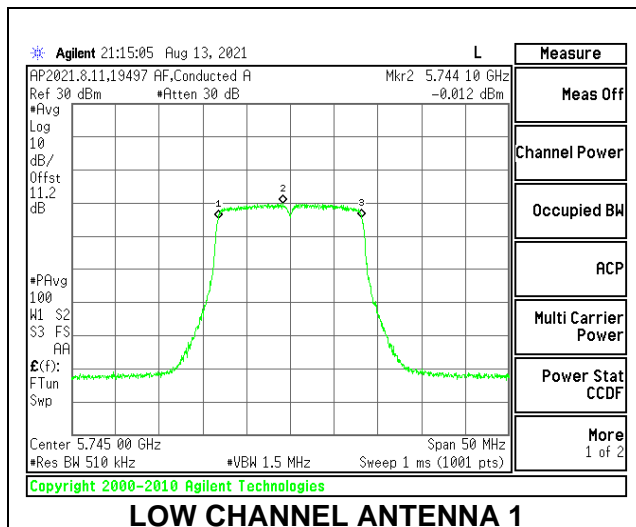
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	13.03	13.43	16.24	30.00	-13.76
Mid	5785	12.95	13.50	16.24	30.00	-13.76
High	5825	13.07	13.55	16.33	30.00	-13.67

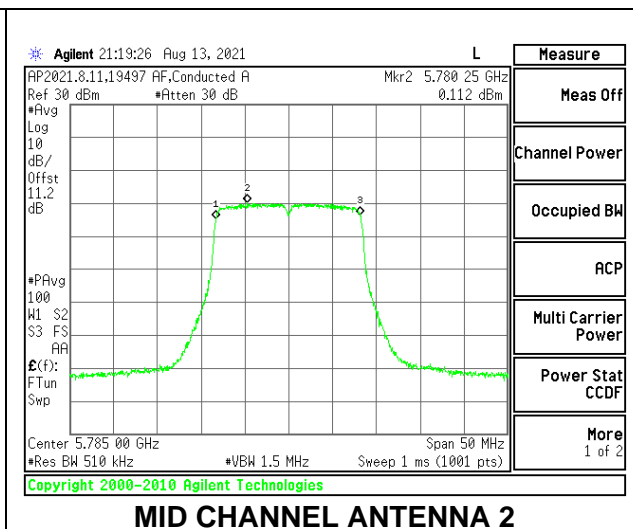
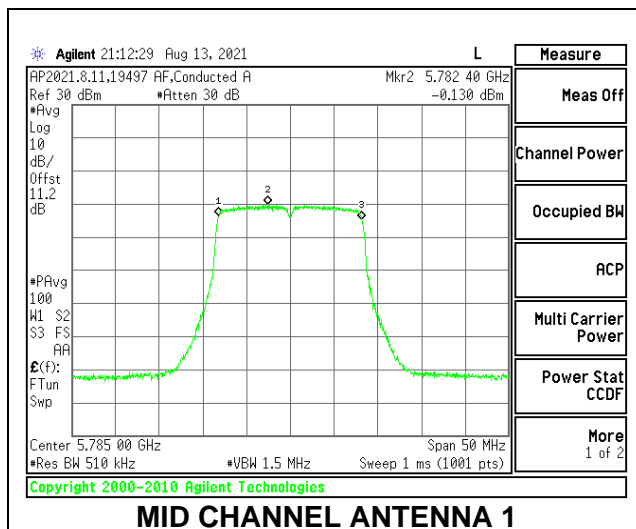
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 500KHz)	Antenna 2 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	-0.01	0.43	3.23	28.78	-25.55
Mid	5785	-0.13	0.11	3.00	28.78	-25.78
High	5825	-0.30	0.67	3.22	28.78	-25.56

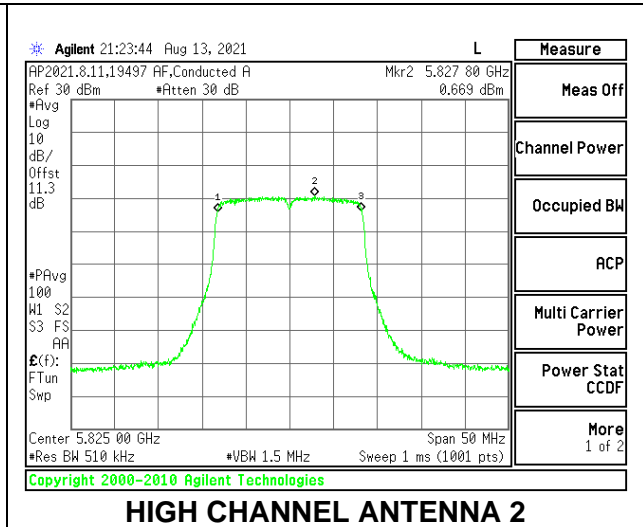
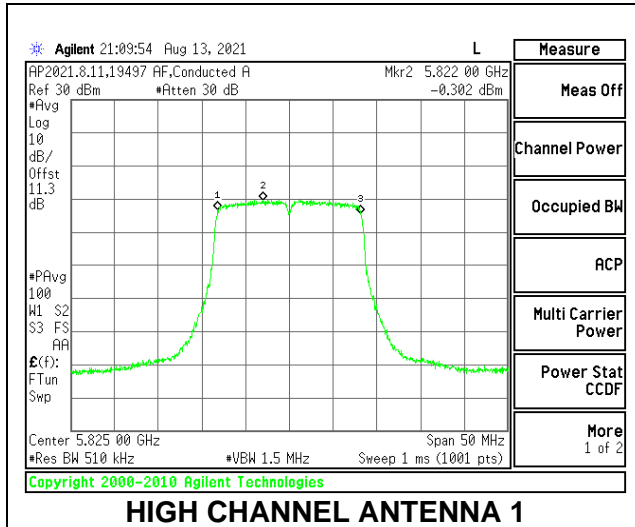
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



9.5.16. 802.11n HT20 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	3.90	30.00	30.00
Mid	5785	3.90	30.00	30.00
High	5825	3.90	30.00	30.00

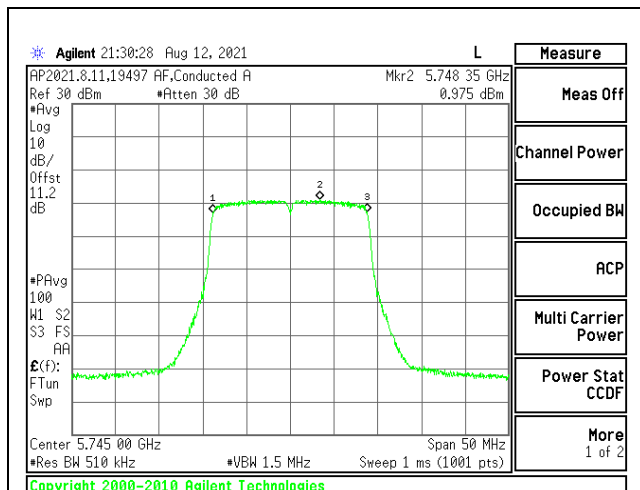
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

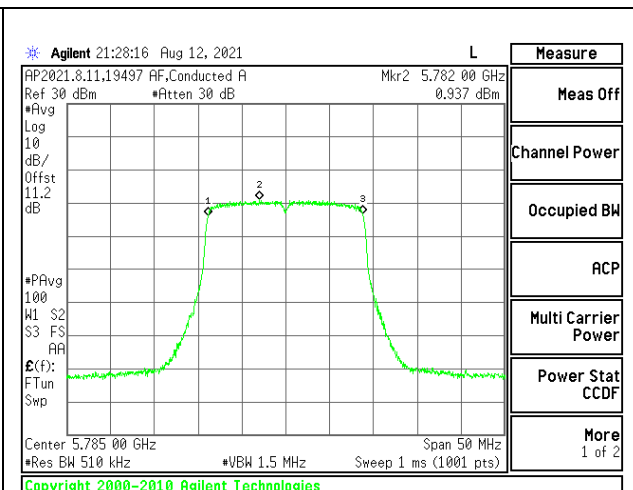
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	14.33	14.33	30.00	-15.67
Mid	5785	14.17	14.17	30.00	-15.83
High	5825	14.22	14.22	30.00	-15.78

PSD Results

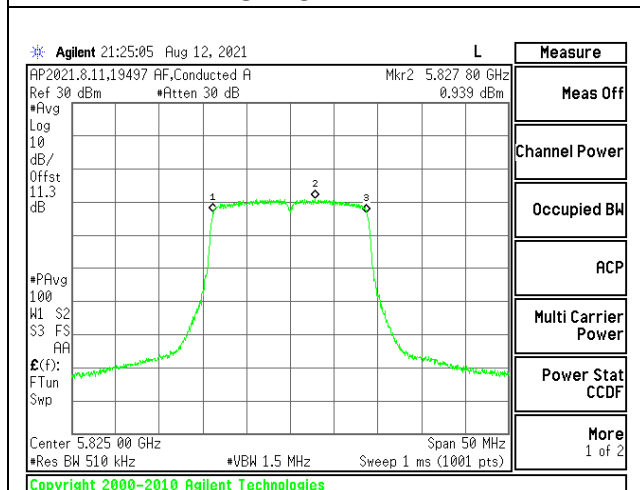
Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	0.98	0.98	30.00	-29.03
Mid	5785	0.94	0.94	30.00	-29.06
High	5825	0.94	0.94	30.00	-29.06



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Intentionally left blank

1TX Antenna 2 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	4.50	30.00	30.00
Mid	5785	4.50	30.00	30.00
High	5825	4.50	30.00	30.00

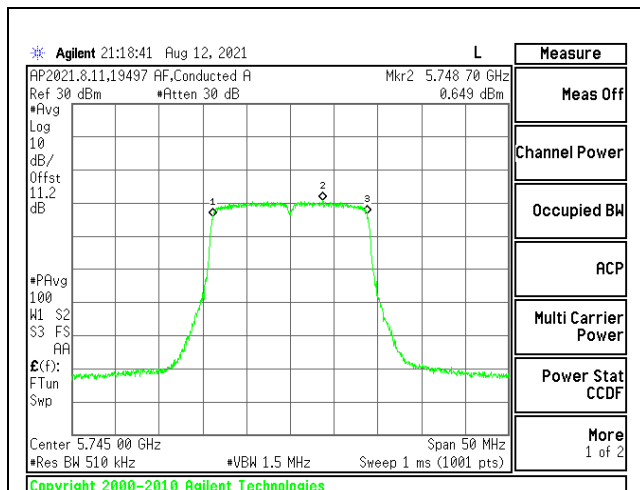
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

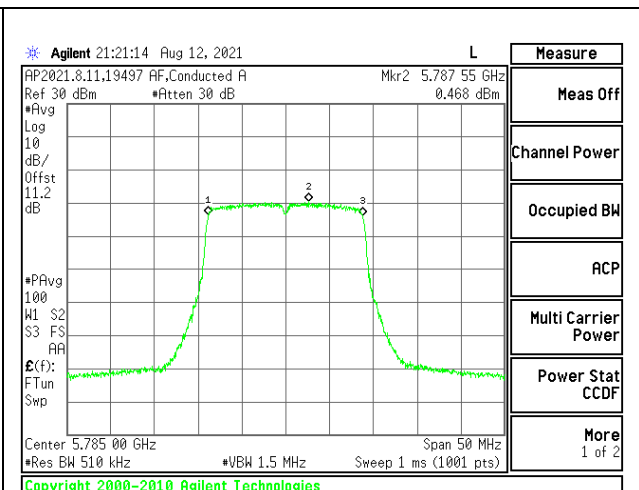
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	13.81	13.81	30.00	-16.19
Mid	5785	13.89	13.89	30.00	-16.11
High	5825	13.73	13.73	30.00	-16.27

PSD Results

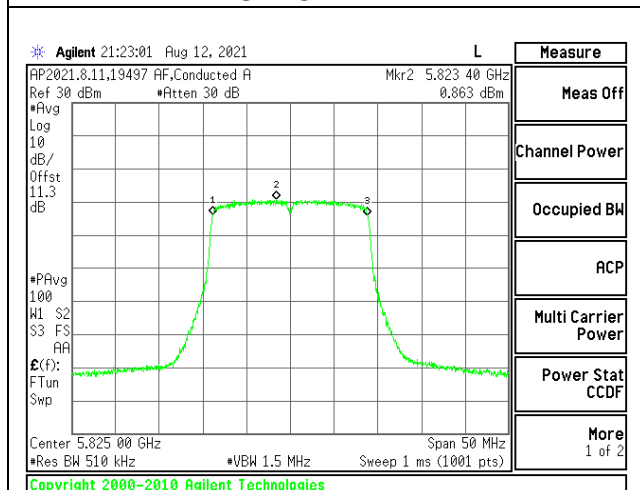
Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	0.65	0.65	30.00	-29.35
Mid	5785	0.47	0.47	30.00	-29.53
High	5825	0.86	0.86	30.00	-29.14



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Intentionally left blank

2TX Antenna 1 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	4.21	7.22	30.00	28.78
Mid	5785	4.21	7.22	30.00	28.78
High	5825	4.21	7.22	30.00	28.78

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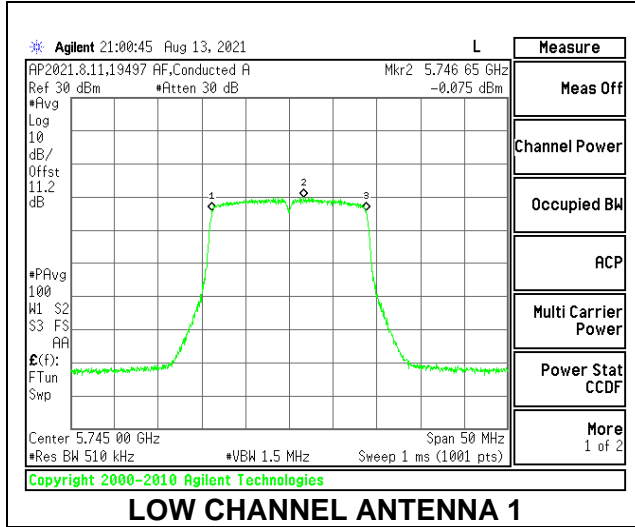
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	12.87	13.43	16.17	30.00	-13.83
Mid	5785	12.87	13.18	16.04	30.00	-13.96
High	5825	12.64	13.54	16.12	30.00	-13.88

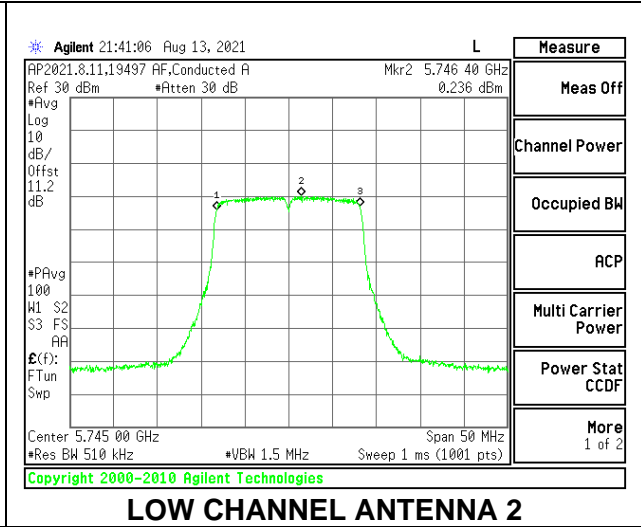
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 500KHz)	Antenna 2 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	-0.08	0.24	3.09	28.78	-25.69
Mid	5785	-0.62	0.26	2.85	28.78	-25.93
High	5825	-0.10	1.10	3.55	28.78	-25.23

LOW CHANNEL

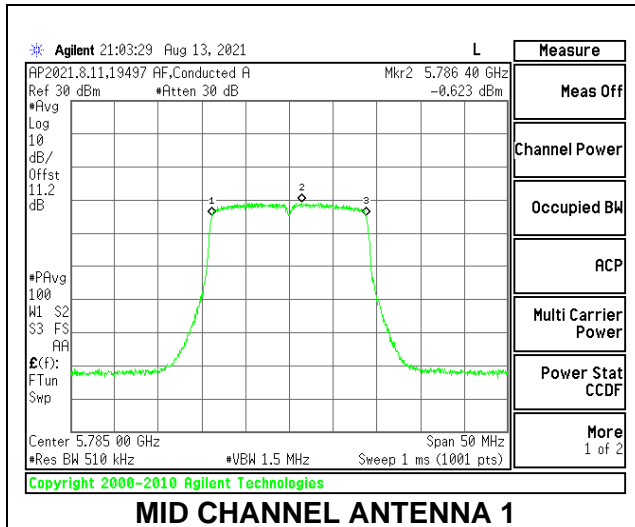


LOW CHANNEL ANTENNA 1

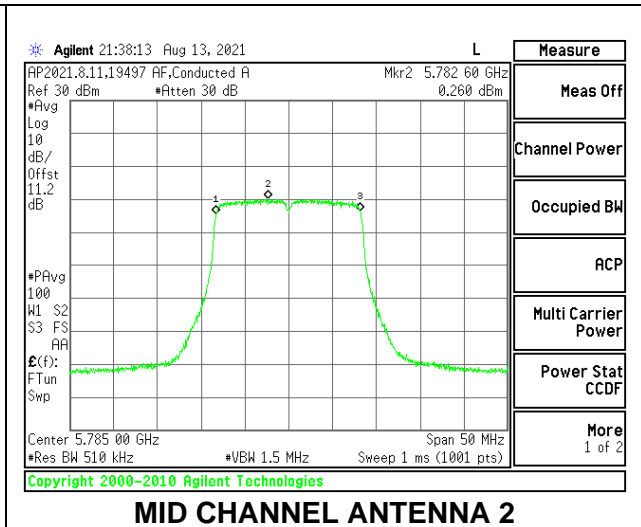


LOW CHANNEL ANTENNA 2

MID CHANNEL

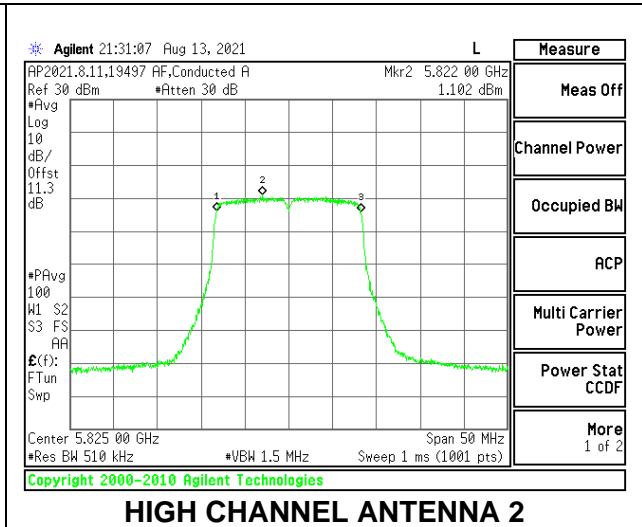
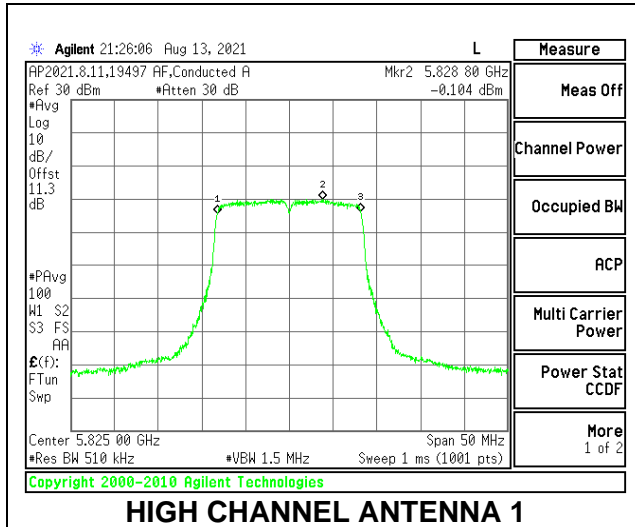


MID CHANNEL ANTENNA 1



MID CHANNEL ANTENNA 2

HIGH CHANNEL



9.5.17. 802.11n HT40 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISE Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5755	3.90	30.00	30.00
High	5795	3.90	30.00	30.00

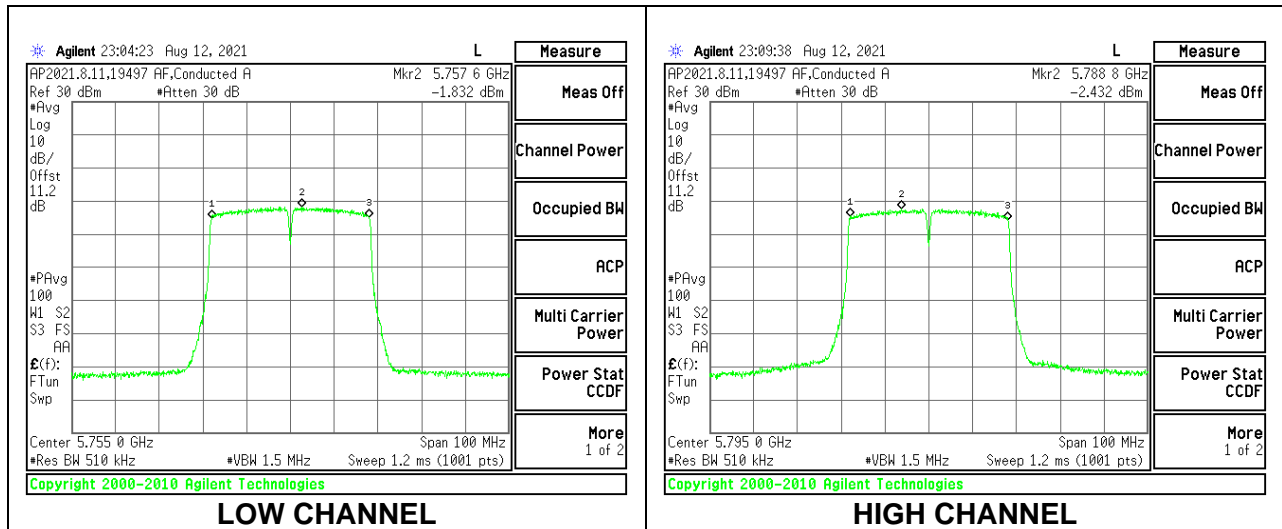
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	14.55	14.55	30.00	-15.45
High	5795	14.61	14.61	30.00	-15.39

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5755	-1.83	-1.83	30.00	-31.83
High	5795	-2.43	-2.43	30.00	-32.43



1TX Antenna 2 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISE Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5755	4.50	30.00	30.00
High	5795	4.50	30.00	30.00

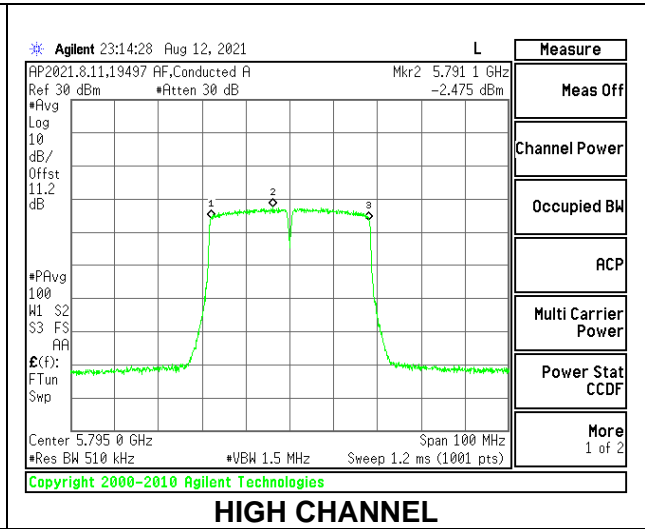
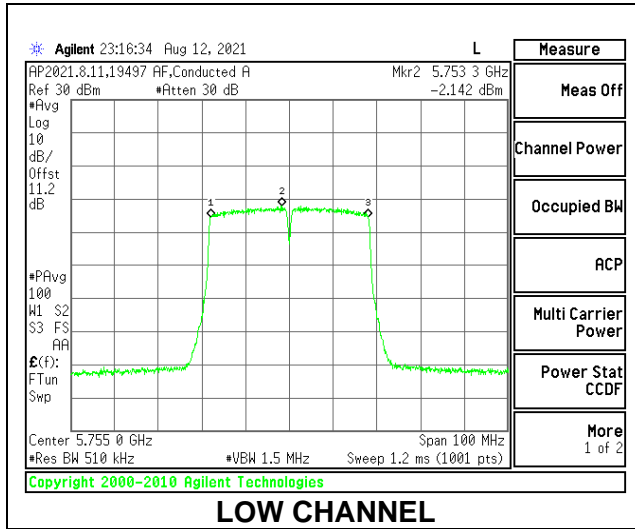
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	13.72	13.72	30.00	-16.28
High	5795	13.54	13.54	30.00	-16.46

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5755	-2.14	-2.14	30.00	-32.14
High	5795	-2.48	-2.48	30.00	-32.48



2TX Antenna 1 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5755	4.21	7.22	30.00	28.78
High	5795	4.21	7.22	30.00	28.78

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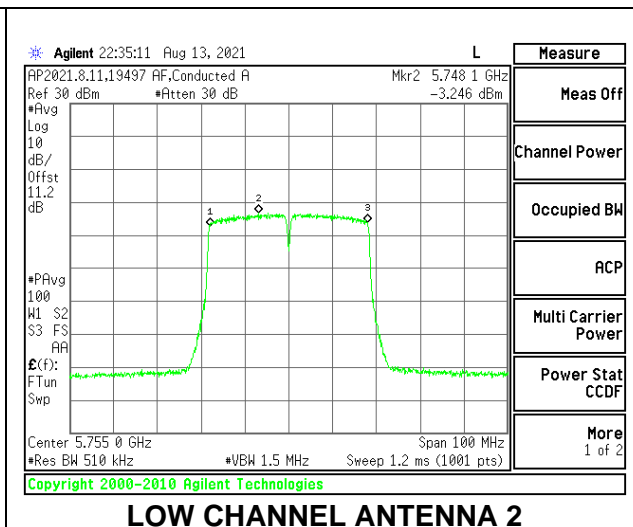
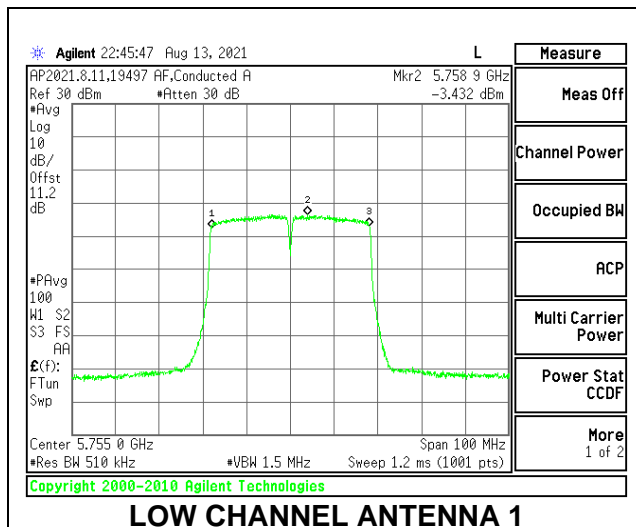
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	13.04	13.23	16.15	30.00	-13.85
High	5795	13.03	13.37	16.21	30.00	-13.79

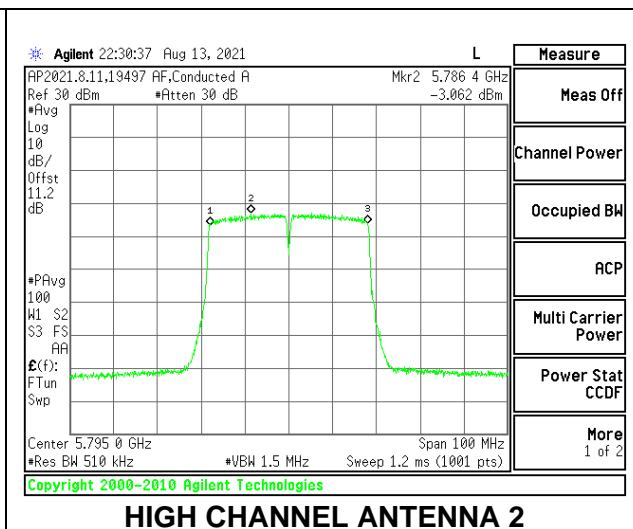
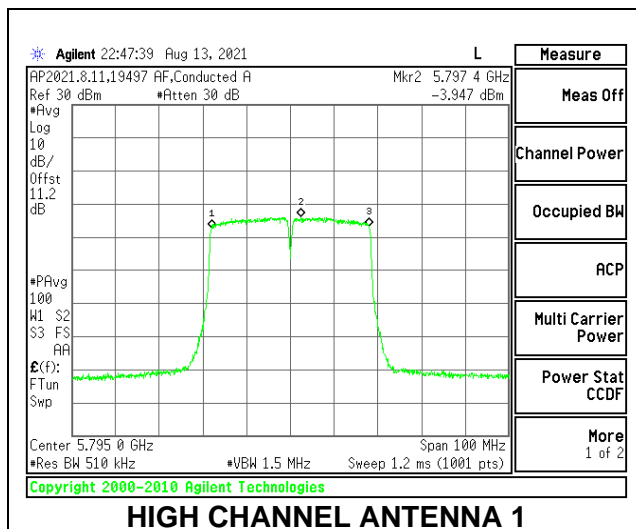
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 500KHz)	Antenna 2 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5755	-3.43	-3.25	-0.33	28.78	-29.11
High	5795	-3.95	-3.06	-0.47	28.78	-29.25

LOW CHANNEL



HIGH CHANNEL



9.5.18. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISE Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Mid	5775	3.90	30.00	30.00

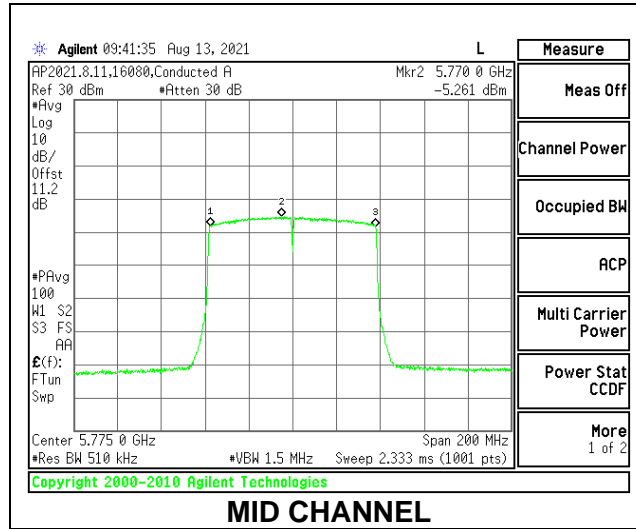
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	14.62	14.62	30.00	-15.38

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Mid	5775	-5.26	-5.26	30.00	-35.26



1TX Antenna 2 MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISE Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Mid	5775	4.50	30.00	30.00

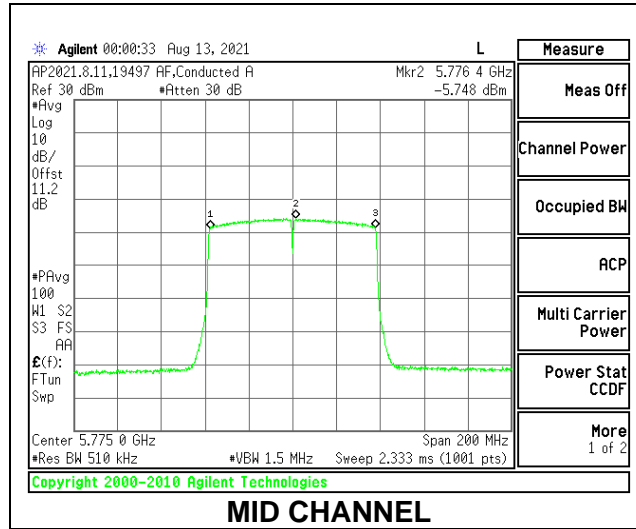
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	13.21	13.21	30.00	-16.79

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Mid	5775	-5.75	-5.75	30.00	-35.75



2TX Antenna 1 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Mid	5755	4.21	7.22	30.00	28.78

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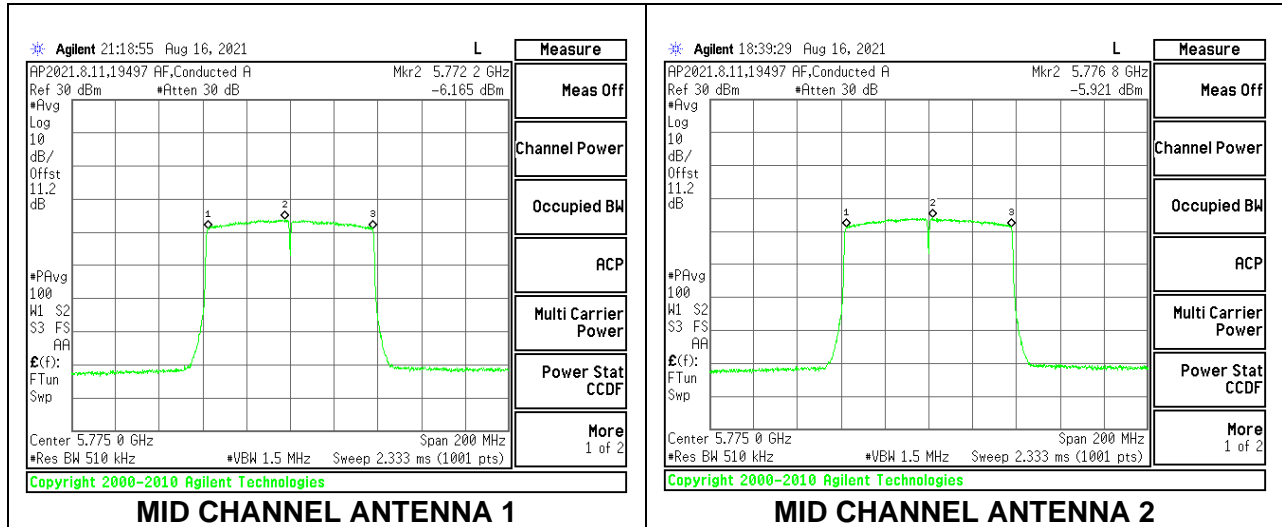
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5755	13.32	13.71	16.53	30.00	-13.47

PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 500KHz)	Antenna 2 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Mid	5755	-6.17	-5.92	-3.03	28.78	-31.81

MID CHANNEL



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restricted bands

FCC §15.407(b)(1-5) -Un-Restricted bands

After January 01, 2019 for Outside of the Restricted Bands Emissions

RSS 247 Issue 2 Sections

6.2.1.2 (for 5150-5250 MHz band)

6.2.2.2 (for 5250-5350 MHz band)

6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)

6.2.4.2 (for 5725-5850 MHz band)

NCC LP0002 §2.7 and §2.8

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 for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

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 in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from below 30MHz, 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

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.

2D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

NOTE: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table), using the free space impedance of 377 Ohms. For example the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y - 51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

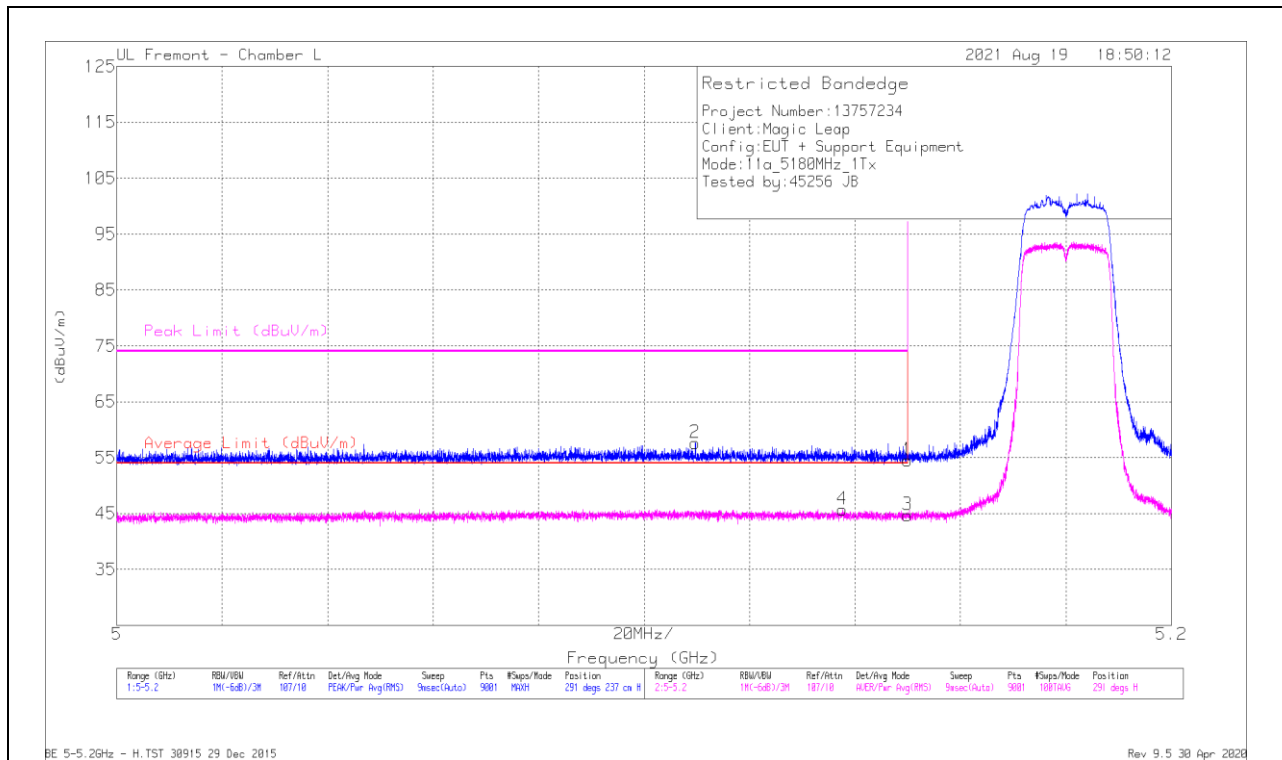
10.1. TRANSMITTER ABOVE 1 GHz

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

1TX Antenna 1 MODE

BANDEGE (LOW CHANNEL)

HORIZONTAL RESULT



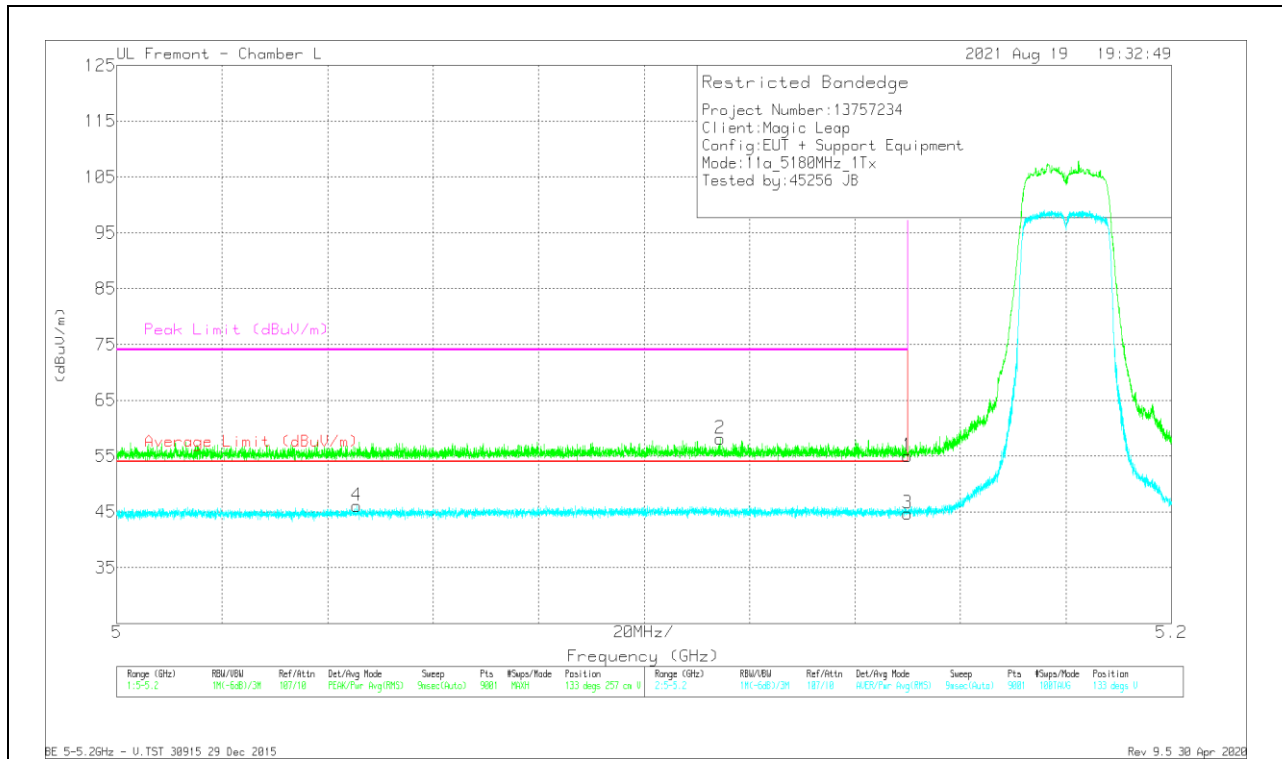
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	34.82	Pk	34.6	-14.9	54.52	-	-	74	-19.48	291	237	H
2	* 5.10973	37.97	Pk	34.5	-14.8	57.67	-	-	74	-16.33	291	237	H
3	* 5.15	24.97	RMS	34.6	-14.9	44.67	54	-9.33	-	-	291	237	H
4	* 5.1376	26.03	RMS	34.6	-14.9	45.73	54	-8.27	-	-	291	237	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

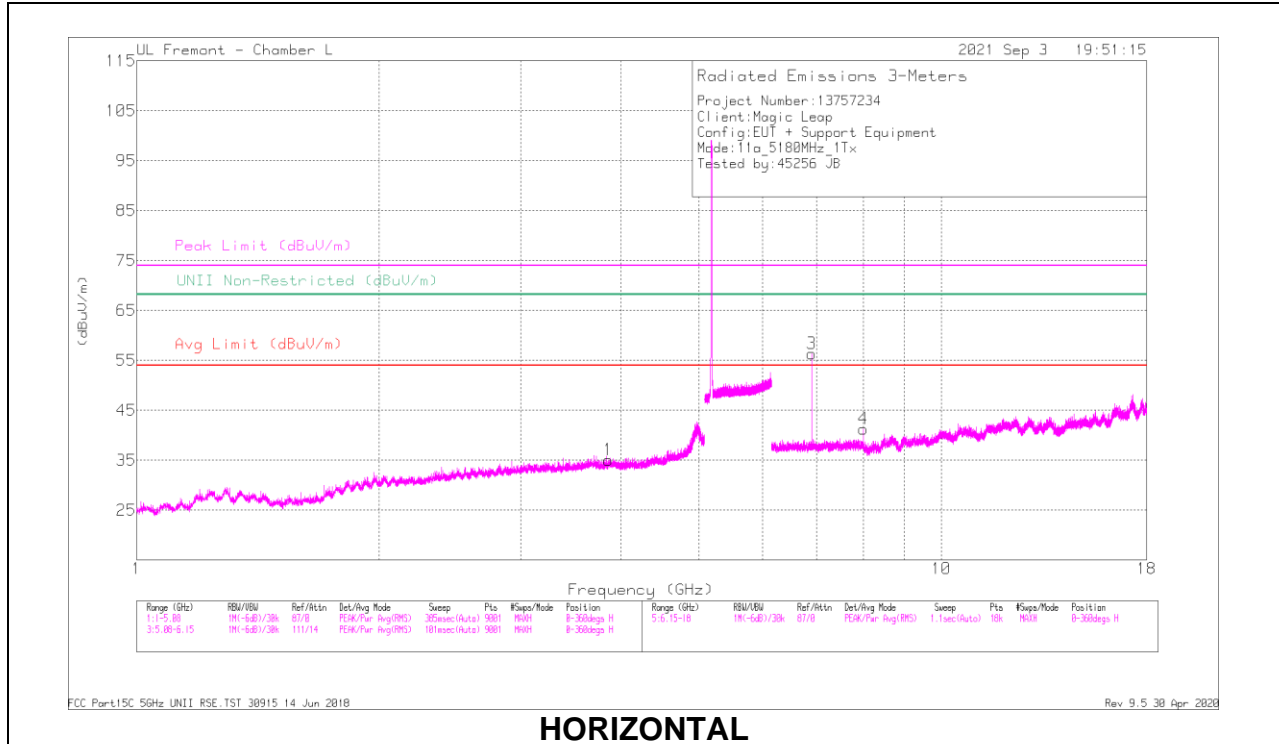


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Par d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	35.35	Pk	34.6	-14.9	55.05	-	-	74	-18.95	133	257	V
2	* 5.11444	38.36	Pk	34.5	-14.8	58.06	-	-	74	-15.94	133	257	V
3	* 5.15	25.04	RMS	34.6	-14.9	44.74	54	-9.26	-	-	133	257	V
4	* 5.04556	26.5	RMS	34.3	-14.7	46.1	54	-7.9	-	-	133	257	V

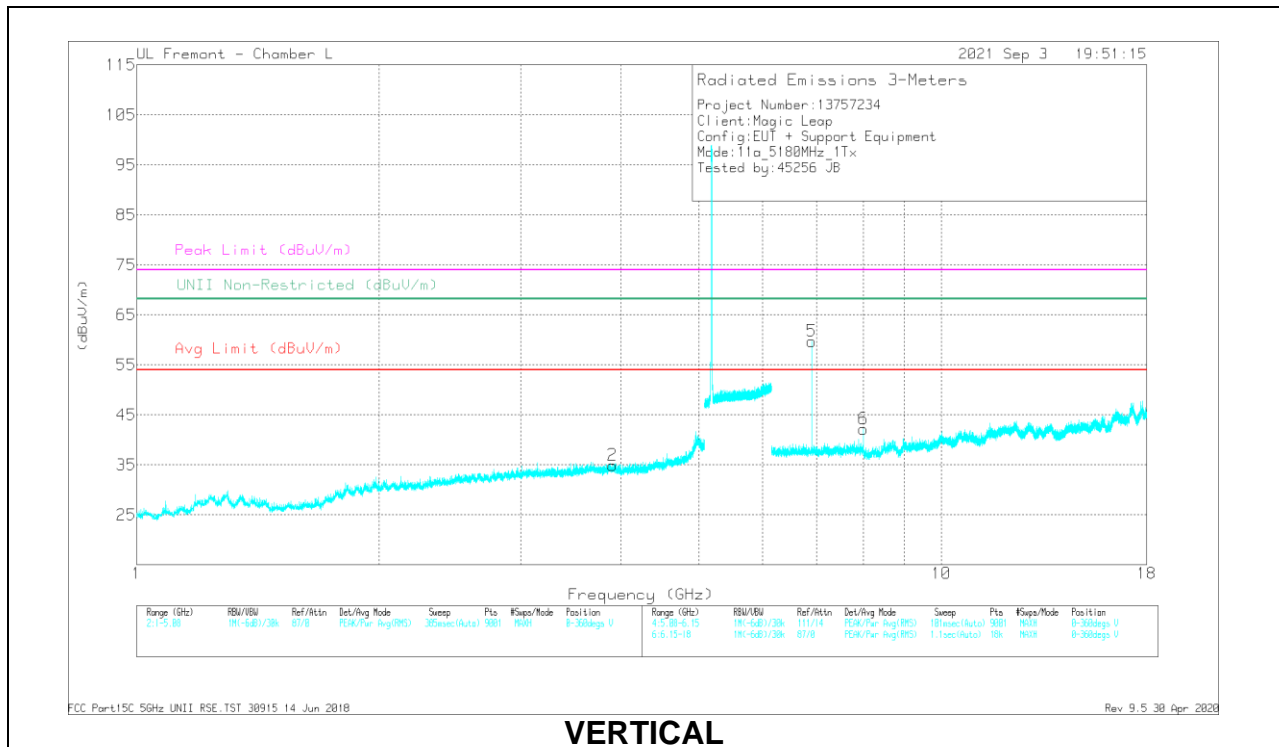
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

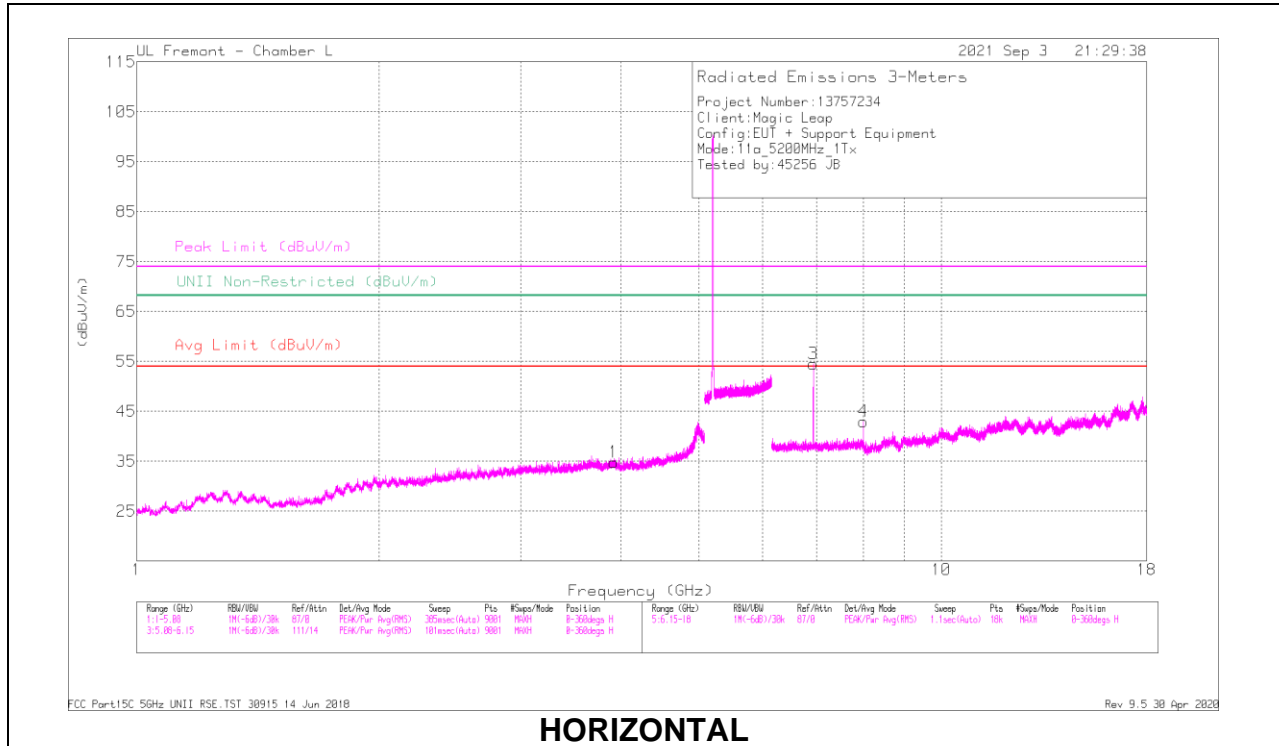
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dBm)	Amp/Cb/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNI Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.85968	35.05	PK-U	33.2	-26	42.25	-	-	74	-31.75	-	-	180	228	H
	* 3.85851	23.86	ADR	33.2	-26	30.86	54	-23.14	-	-	-	-	180	228	H
2	* 3.90071	34.65	PK-U	33.2	-25.1	42.75	-	-	74	-31.25	-	-	71	158	V
	* 3.90178	22.89	ADR	33.2	-25.1	30.99	54	-23.01	-	-	-	-	71	158	V
3	6.90663	41.41	PK-U	35.6	-20.9	56.11	-	-	-	-	68.2	-12.09	85	103	H
4	8.00005	30.05	PK-U	35.8	-18.6	47.25	-	-	-	-	68.2	-20.95	284	102	H
5	6.90663	43.68	PK-U	35.6	-20.9	58.38	-	-	-	-	68.2	-9.82	340	105	V
6	8.00005	30.58	PK-U	35.8	-18.6	47.78	-	-	-	-	68.2	-20.42	185	187	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

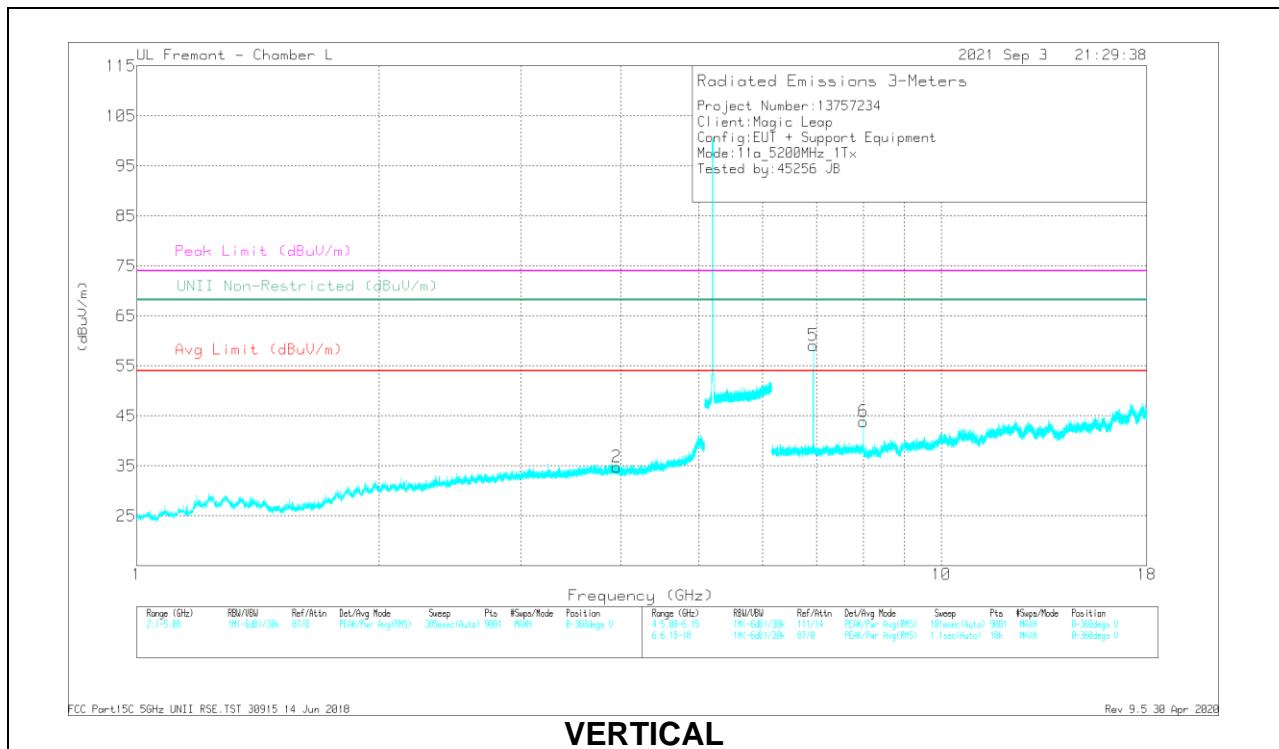
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

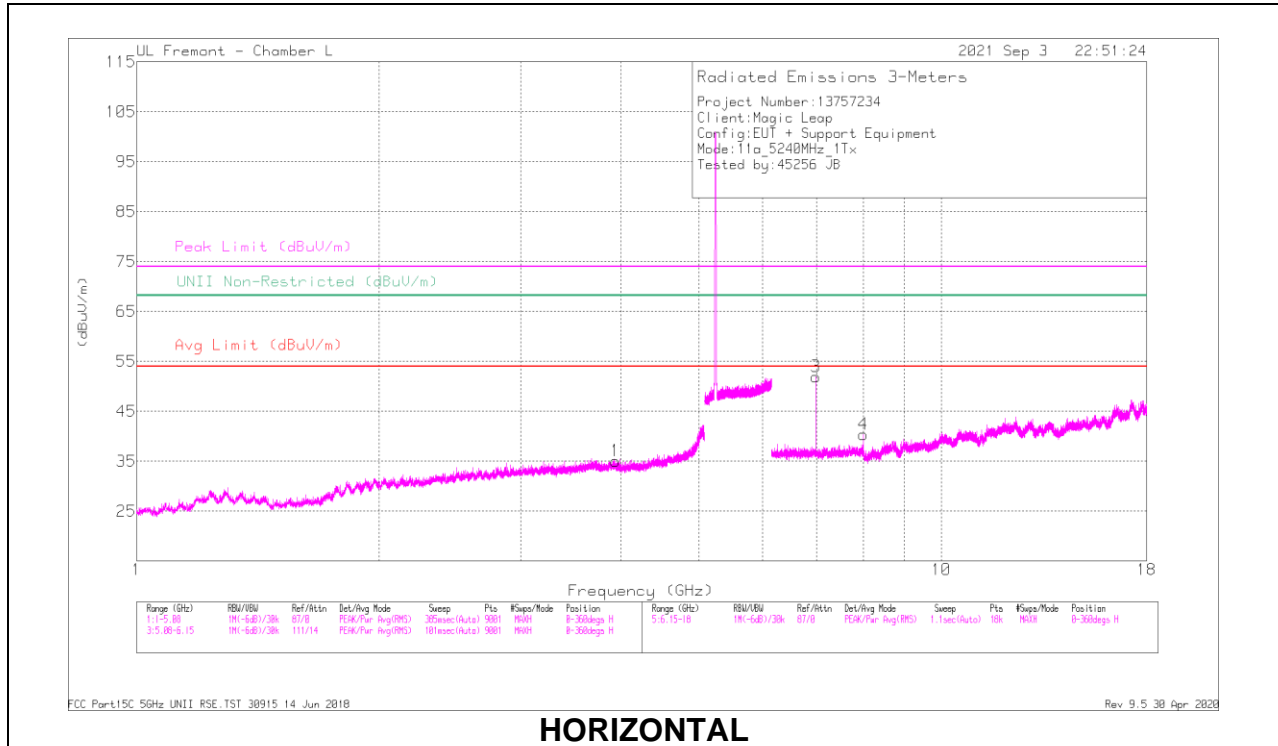
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dBm)	Amp/Cb/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNI Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.91574	34.17	PK-U	33.1	-25.2	42.07	-	-	74	-31.93	-	-	111	143	H
	* 3.91829	23.02	ADR	33.1	-25.2	30.92	54	-23.08	-	-	-	-	111	143	H
2	* 3.95342	34.94	PK-U	33.1	-25.7	42.34	-	-	74	-31.66	-	-	341	101	V
	* 3.95355	23.79	ADR	33.1	-25.7	31.19	54	-22.81	-	-	-	-	341	101	V
3	6.93333	40.46	PK-U	35.6	-20.1	55.96	-	-	-	-	68.2	-12.24	87	108	H
4	8.00009	30.08	PK-U	35.8	-18.6	47.28	-	-	-	-	68.2	-20.92	271	190	H
5	6.93328	43.86	PK-U	35.6	-20.1	59.36	-	-	-	-	68.2	-8.84	29	104	V
6	8.00009	29.62	PK-U	35.8	-18.6	46.82	-	-	-	-	68.2	-21.38	286	104	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

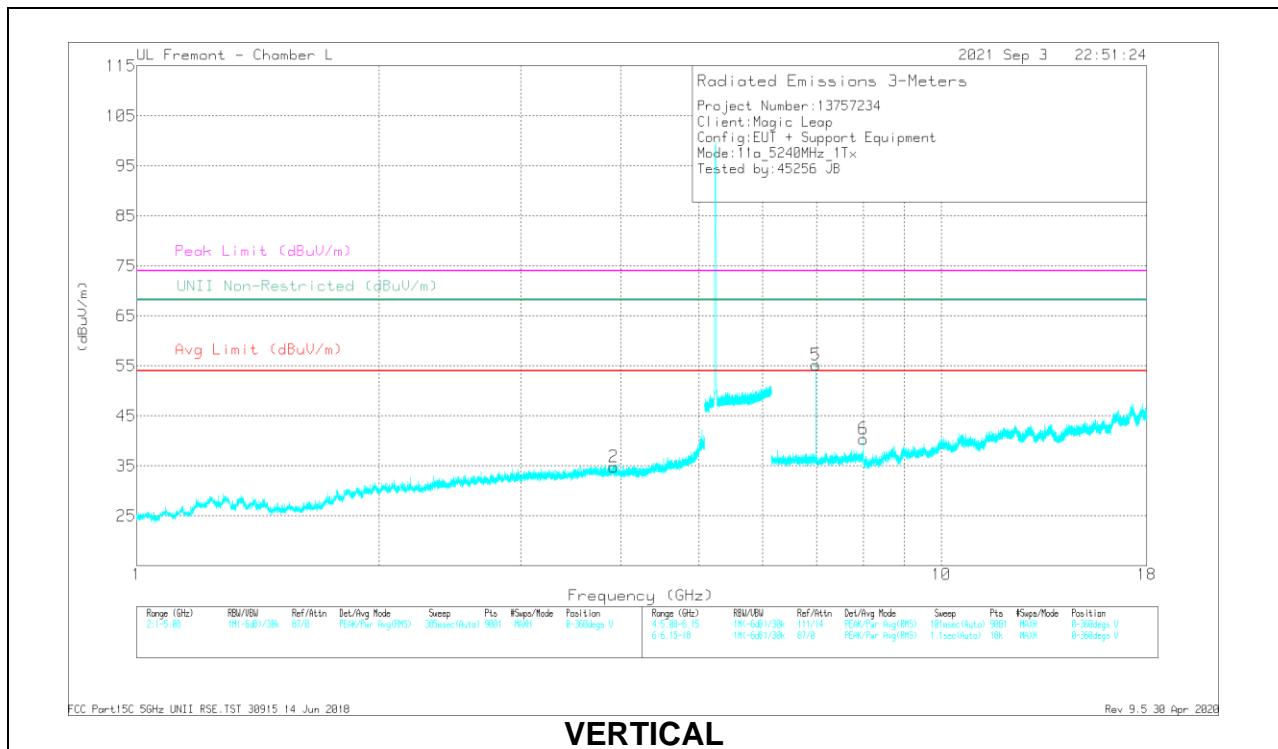
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dBm)	AmpCh/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNI Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.93834	34.25	PK-U	33	-25.4	41.85	-	-	74	-32.15	-	-	175	105	H
	* 3.93776	22.93	ADR	33	-25.4	30.53	54	-23.47	-	-	-	-	175	105	H
2	* 3.91534	34.85	PK-U	33.1	-25.2	42.75	-	-	74	-31.25	-	-	13	101	V
	* 3.91724	22.82	ADR	33.1	-25.2	30.72	54	-23.28	-	-	-	-	13	101	V
3	6.9876	29.8	PK-U	35.6	-20.3	45.1	-	-	-	-	68.2	-23.1	84	102	H
4	8.00077	26.81	PK-U	35.8	-18.6	44.01	-	-	-	-	68.2	-24.19	254	243	H
5	6.98556	29.52	PK-U	35.6	-20.3	44.82	-	-	-	-	68.2	-23.38	258	181	V
6	8.00079	26.99	PK-U	35.8	-18.6	44.19	-	-	-	-	68.2	-24.01	0	103	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

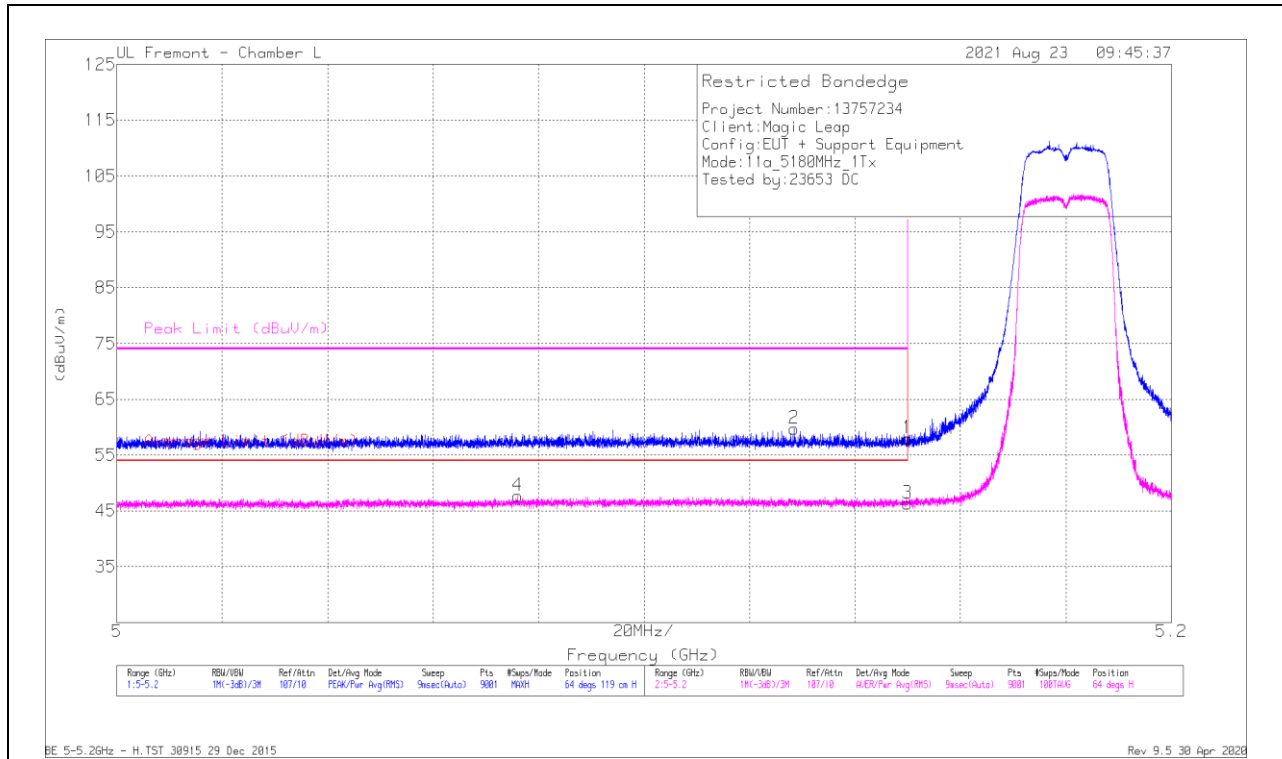
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

1TX Antenna 2 MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



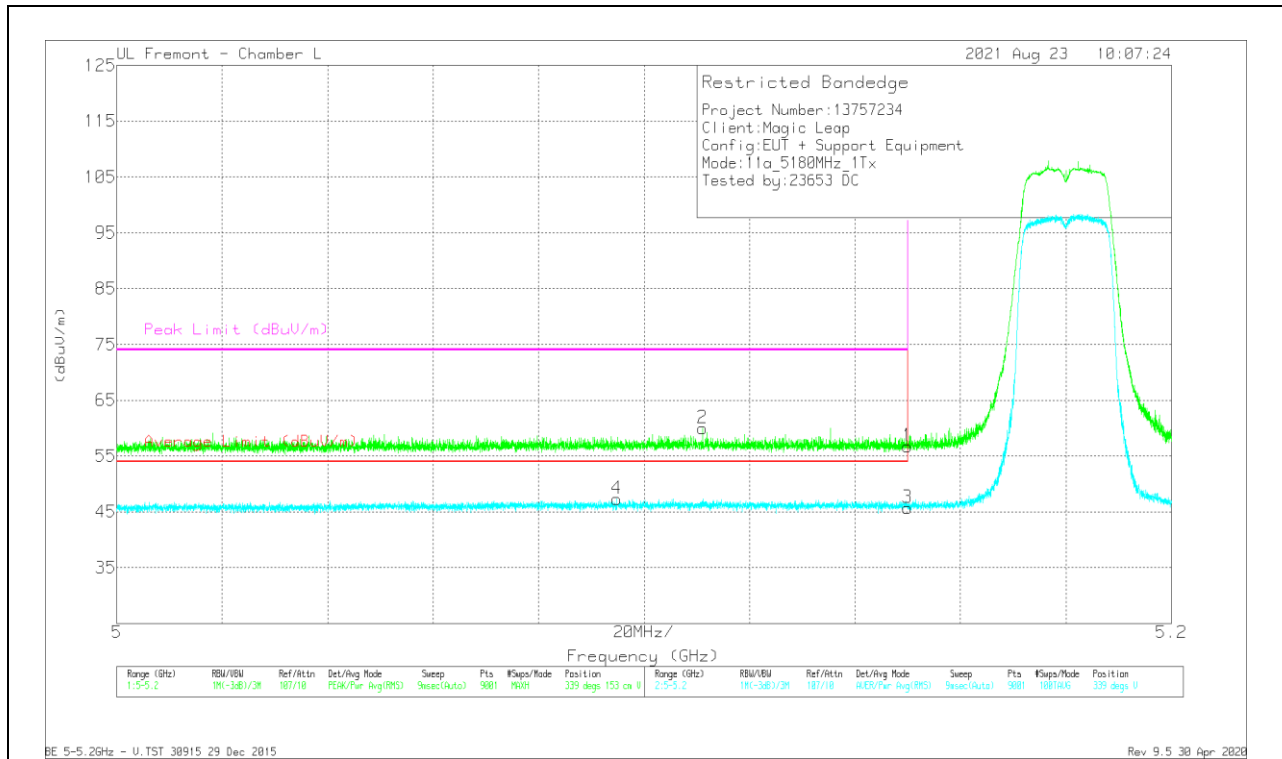
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/CbI/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.28	Pk	34.6	-14.9	57.98	-	-	74	-16.02	64	119	H
2	* 5.12847	40.02	Pk	34.6	-14.9	59.72	-	-	74	-14.28	64	119	H
3	* 5.15	26.66	RMS	34.6	-14.9	46.36	54	-7.64	-	-	64	119	H
4	* 5.07604	28.05	RMS	34.4	-14.8	47.65	54	-6.35	-	-	64	119	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/CbI/Ftr/PA d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.03	Pk	34.6	-14.9	56.73	-	-	74	-17.27	339	153	V
2	* 5.11107	40.32	Pk	34.5	-14.8	60.02	-	-	74	-13.98	339	153	V
3	* 5.15	26.03	RMS	34.6	-14.9	45.73	54	-8.27	-	-	339	153	V
4	* 5.09482	27.65	RMS	34.5	-14.8	47.35	54	-6.65	-	-	339	153	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection