With Beamforming

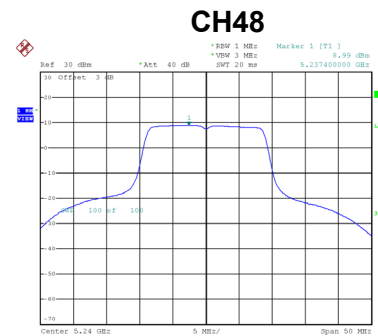| Test Mode	UNII-1_TX N (HT20) Mode_Ant. 1

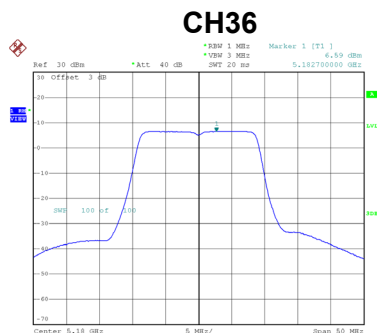| Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	5.67	0.00	5.67	15.00	Complies
40	5200	8.92	0.00	8.92	15.00	Complies
48	5240	8.99	0.00	8.99	15.00	Complies

CH36   CH40   CH48
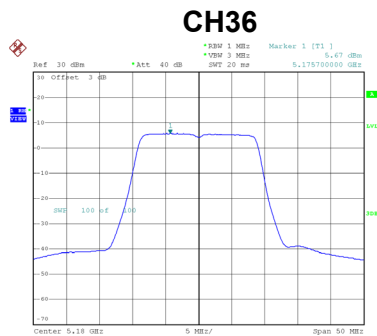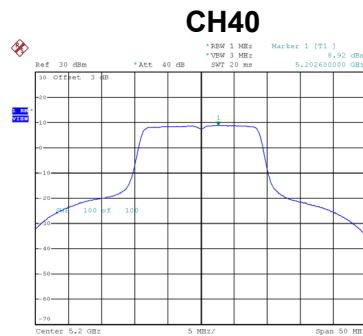
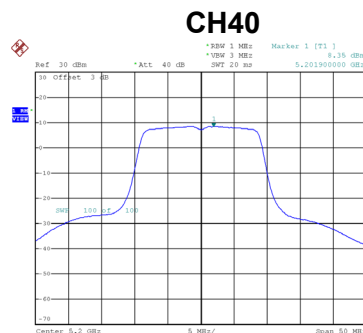Date: 28.APR.2019 17:45:45   Date: 24.APR.2019 11:21:00   Date: 24.APR.2019 11:22:43

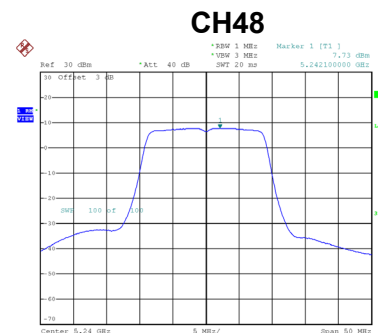| Test Mode	UNII-1_TX N (HT20) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	6.59	0.00	6.59	15.00	Complies
40	5200	8.35	0.00	8.35	15.00	Complies
48	5240	7.73	0.00	7.73	15.00	Complies

CH36   CH40   CH48


Date: 28.APR.2019 18:12:08   Date: 24.APR.2019 14:16:50   Date: 24.APR.2019 14:19:01

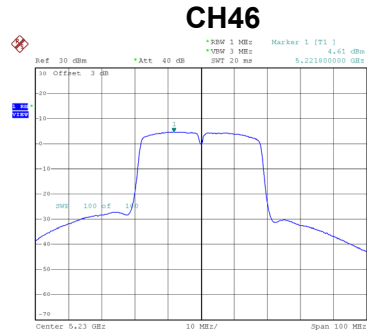| Test Mode	UNII-1_TX N (HT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	9.16	15.00	Complies
40	5200	11.65	15.00	Complies
48	5240	11.42	15.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Ant. 1

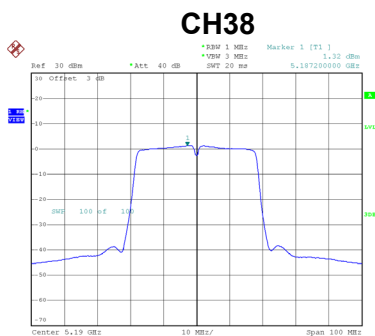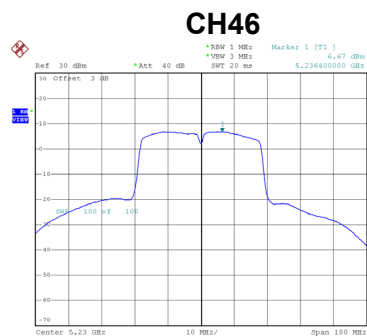| Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	-0.01	0.00	-0.01	15.00	Complies
46	5230	4.61	0.00	4.61	15.00	Complies

CH38

CH46
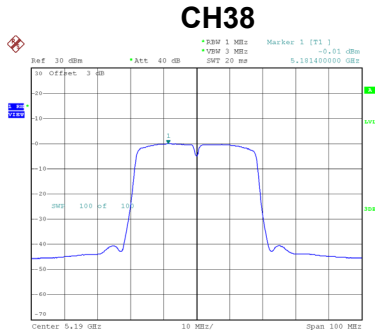
Date: 28.APR.2019 17:51:09

Date: 28.APR.2019 17:53:34

Test Mode	UNII-1_TX N (HT40) Mode_Ant. 2

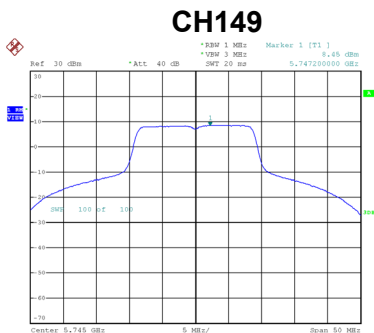| Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	1.32	0.00	1.32	15.00	Complies
46	5230	6.67	0.00	6.67	15.00	Complies

CH38

CH46

Date: 28.APR.2019 18:16:35

Date: 28.APR.2019 18:18:56

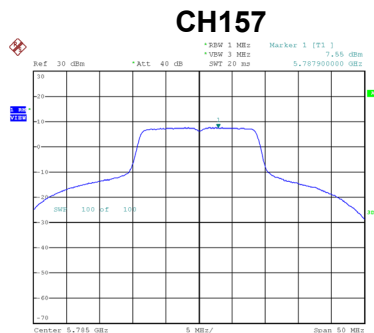| Test Mode	UNII-1_TX N (HT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	3.72	15.00	Complies
46	5230	8.77	15.00	Complies

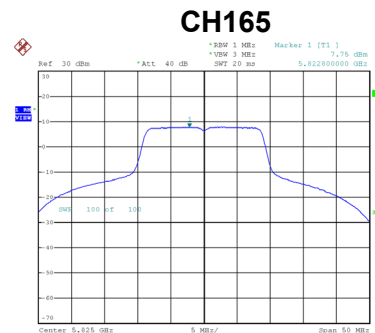| Test Mode	UNII-3_TX N (HT20) Mode_Ant. 1

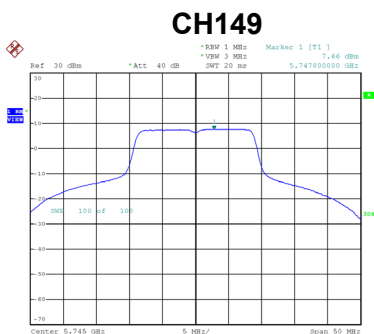| Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	8.45	0.00	8.45	28.00	Complies
157	5785	7.55	0.00	7.55	28.00	Complies
165	5825	7.75	0.00	7.75	28.00	Complies

CH149   CH157   CH165

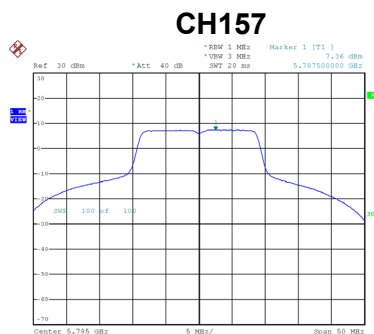Date: 24.APR.2019 11:25:49   Date: 24.APR.2019 11:27:43   Date: 24.APR.2019 11:29:43

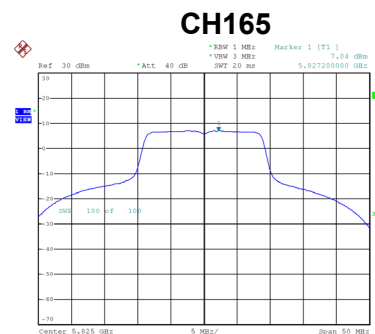| Test Mode	UNII-3_TX N (HT20) Mode_Ant. 2

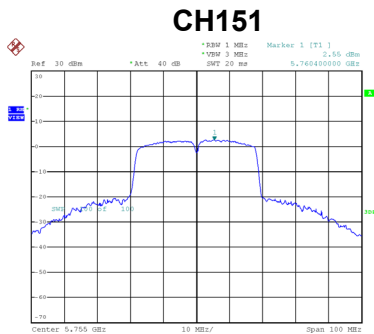| Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	7.66	0.00	7.66	28.00	Complies
157	5785	7.36	0.00	7.36	28.00	Complies
165	5825	7.04	0.00	7.04	28.00	Complies

CH149   CH157   CH165

Date: 24.APR.2019 14:21:05   Date: 24.APR.2019 14:22:33   Date: 24.APR.2019 14:24:11

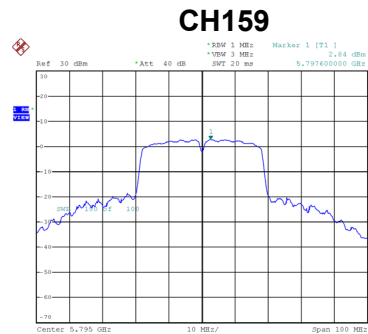| Test Mode	UNII-3_TX N (HT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	11.08	28.00	Complies
157	5785	10.47	28.00	Complies
165	5825	10.42	28.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	2.55	0.00	2.55	28.00	Complies
159	5795	2.84	0.00	2.84	28.00	Complies

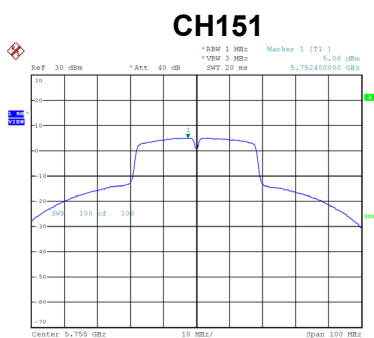**CH151**   **CH159**

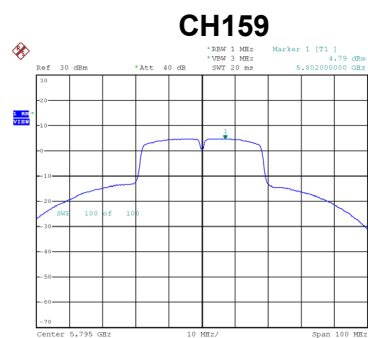Date: 24.APR.2019 13:43:10   Date: 24.APR.2019 13:46:05

Test Mode	UNII-3_TX N (HT40) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	5.08	0.00	5.08	28.00	Complies
159	5795	4.79	0.00	4.79	28.00	Complies

CH151   **CH159**

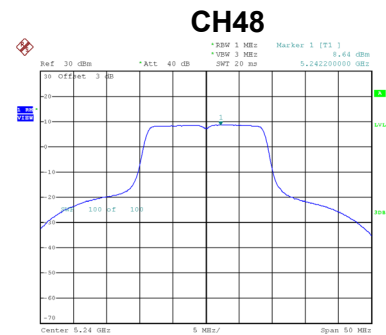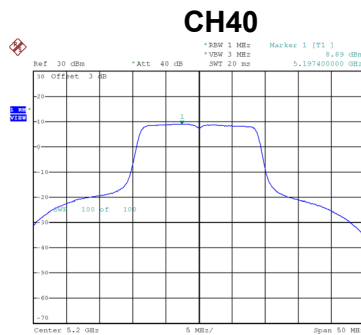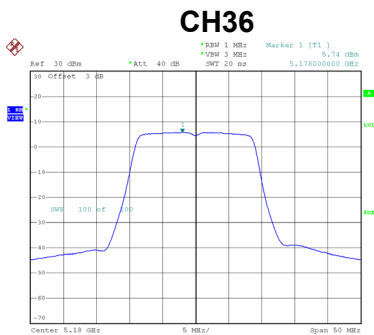Date: 24.APR.2019 14:41:26   Date: 24.APR.2019 14:43:06

Test Mode	UNII-3_TX N (HT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	7.01	28.00	Complies
159	5795	6.93	28.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	5.74	0.00	5.74	15.00	Complies
40	5200	8.89	0.00	8.89	15.00	Complies
48	5240	8.64	0.00	8.64	15.00	Complies

CH36

Date: 28.APR.2019 17:48:40

CH40

Date: 24.APR.2019 11:34:45

CH48
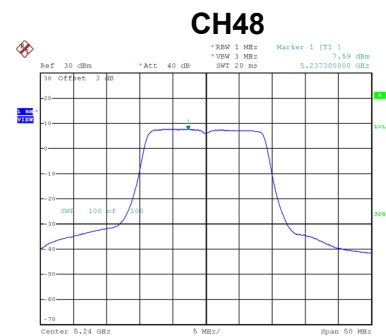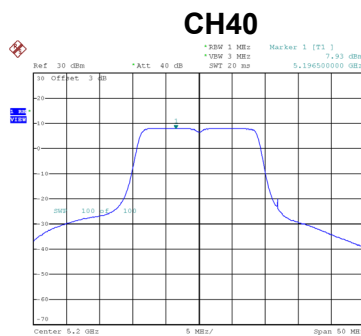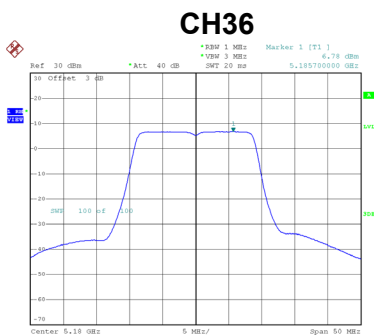

Date: 24.APR.2019 11:43:30

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 2

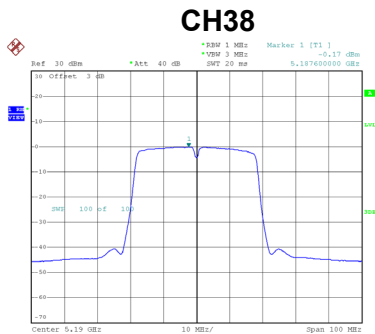| Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	6.78	0.00	6.78	15.00	Complies
40	5200	7.93	0.00	7.93	15.00	Complies
48	5240	7.59	0.00	7.59	15.00	Complies

CH36

Date: 28.APR.2019 18:14:08

CH40

Date: 24.APR.2019 14:27:40

CH48
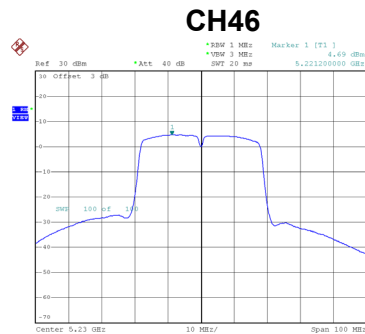

Date: 24.APR.2019 14:29:18

Test Mode	UNII-1_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	9.30	15.00	Complies
40	5200	11.45	15.00	Complies
48	5240	11.16	15.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	-0.17	0.00	-0.17	15.00	Complies
46	5230	4.69	0.00	4.69	15.00	Complies

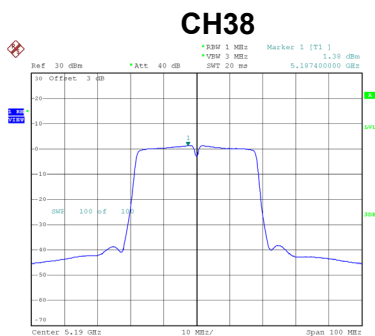**CH38**   **CH46**
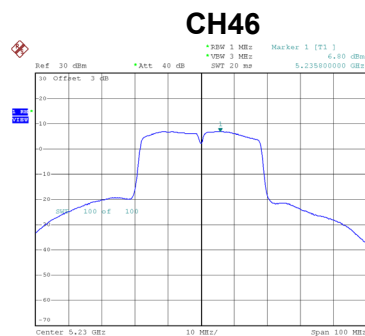

Date: 28.APR.2019 17:55:51   Date: 28.APR.2019 17:57:57

Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	1.38	0.00	1.38	15.00	Complies
46	5230	6.80	0.00	6.80	15.00	Complies

CH38   **CH46**

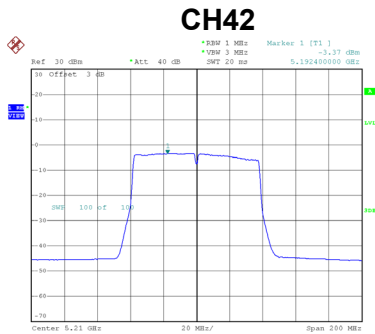Date: 28.APR.2019 18:22:16   Date: 28.APR.2019 18:24:24

Test Mode	UNII-1_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	3.68	15.00	Complies
46	5230	8.88	15.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-3.37	0.00	-3.37	15.00	Complies

CH42

Date: 28.APR.2019 18:01:42

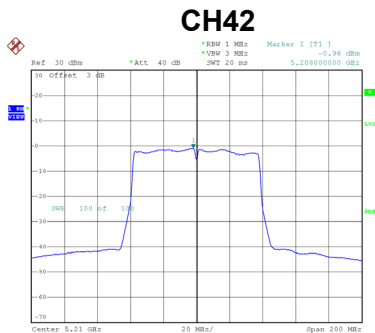| Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 2

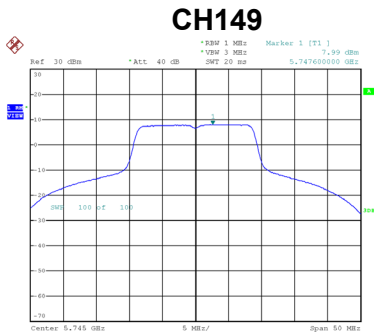| Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-0.96	0.00	-0.96	15.00	Complies

CH42

Date: 28.APR.2019 18:26:43

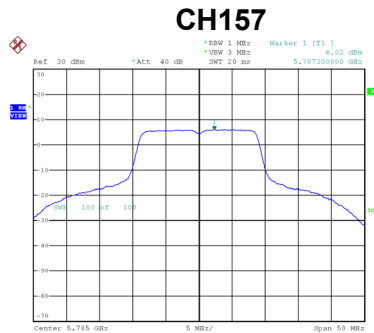| Test Mode	UNII-1_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	1.01	15.00	Complies

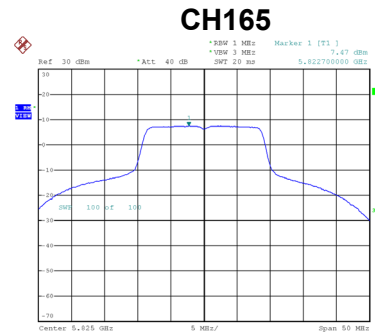| Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 1

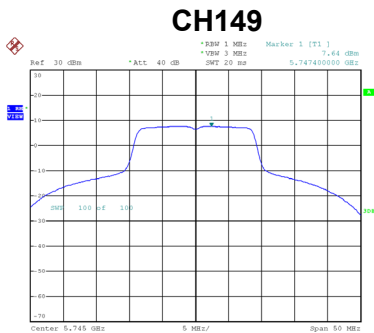| Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	7.99	0.00	7.99	28.00	Complies
157	5785	6.02	0.00	6.02	28.00	Complies
165	5825	7.47	0.00	7.47	28.00	Complies

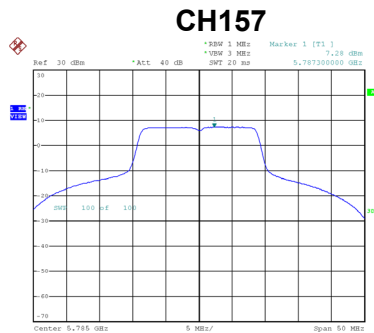Date: 24.APR.2019 11:47:17   Date: 24.APR.2019 11:49:18   Date: 24.APR.2019 11:51:22

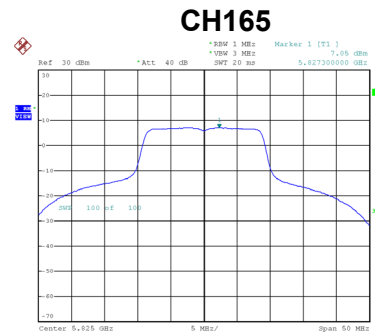| Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	7.64	0.00	7.64	28.00	Complies
157	5785	7.28	0.00	7.28	28.00	Complies
165	5825	7.05	0.00	7.05	28.00	Complies

Date: 24.APR.2019 14:32:27   Date: 24.APR.2019 14:34:24   Date: 24.APR.2019 14:35:43
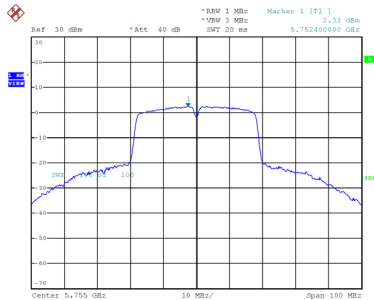
Test Mode	UNII-3_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	10.83	28.00	Complies
157	5785	9.71	28.00	Complies
165	5825	10.28	28.00	Complies

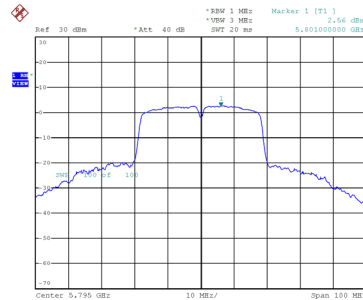| Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	2.33	0.00	2.33	28.00	Complies
159	5795	2.56	0.00	2.56	28.00	Complies

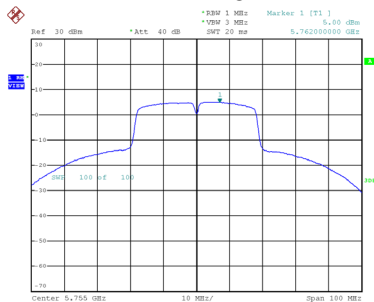**CH151**   **CH159**

Date: 24.APR.2019 13:54:43   Date: 24.APR.2019 13:57:16

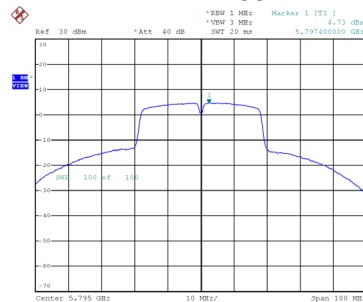| Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	5.00	0.00	5.00	28.00	Complies
159	5795	4.73	0.00	4.73	28.00	Complies

CH151   **CH159**
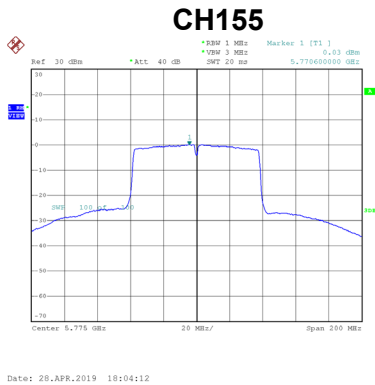

Date: 24.APR.2019 14:48:48   Date: 24.APR.2019 14:50:27

Test Mode	UNII-3_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	6.88	28.00	Complies
159	5795	6.79	28.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	0.03	0.00	0.03	28.00	Complies

CH155

Date: 28.APR.2019 18:04:12

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	1.14	0.00	1.14	28.00	Complies

CH155

Date: 28.APR.2019 18:29:33
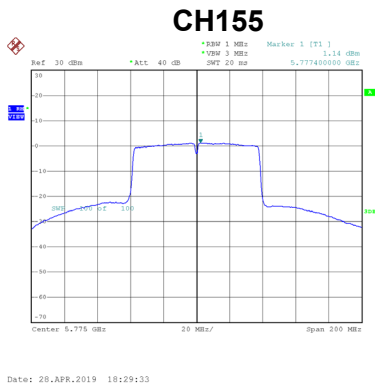
Test Mode	UNII-3_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	3.63	28.00	Complies

APPENDIX H - FREQUENCY STABILITY

Test Mode	UNII-1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5180.0000
132	5179.9784
120	5179.9784
108	5179.9784
Maximum Deviation (MHz)	0.0216
Maximum Deviation (ppm)	4.1699

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5180.0000
0	5179.9784
10	5179.9784
20	5179.9784
30	5179.9784
40	5179.9784
Maximum Deviation (MHz)	0.0216
Maximum Deviation (ppm)	4.1699

Test Mode	UNII-3

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5745.0000
132	5744.9804
120	5744.9792
108	5744.9788
Maximum Deviation (MHz)	0.0212
Maximum Deviation (ppm)	3.6902

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5745.0000
0	5744.9780
10	5744.9776
20	5744.9776
30	5744.9772
40	5744.9768
Maximum Deviation (MHz)	0.0232
Maximum Deviation (ppm)	4.0383

End of Test Report