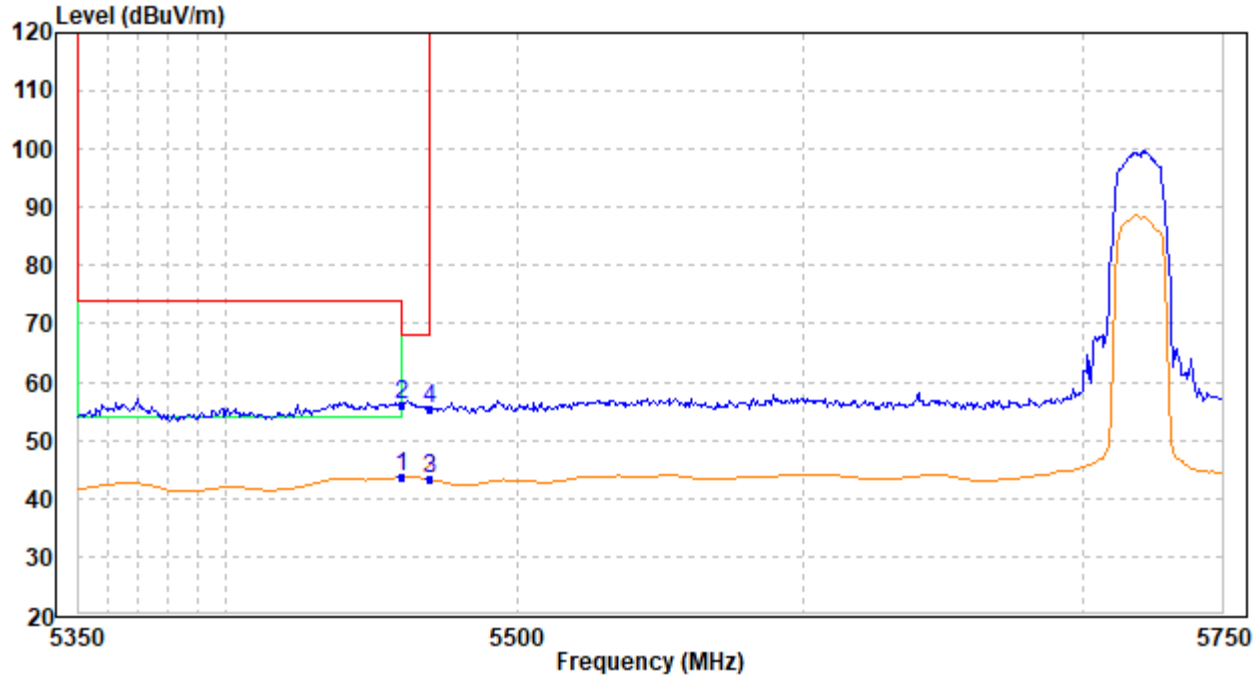
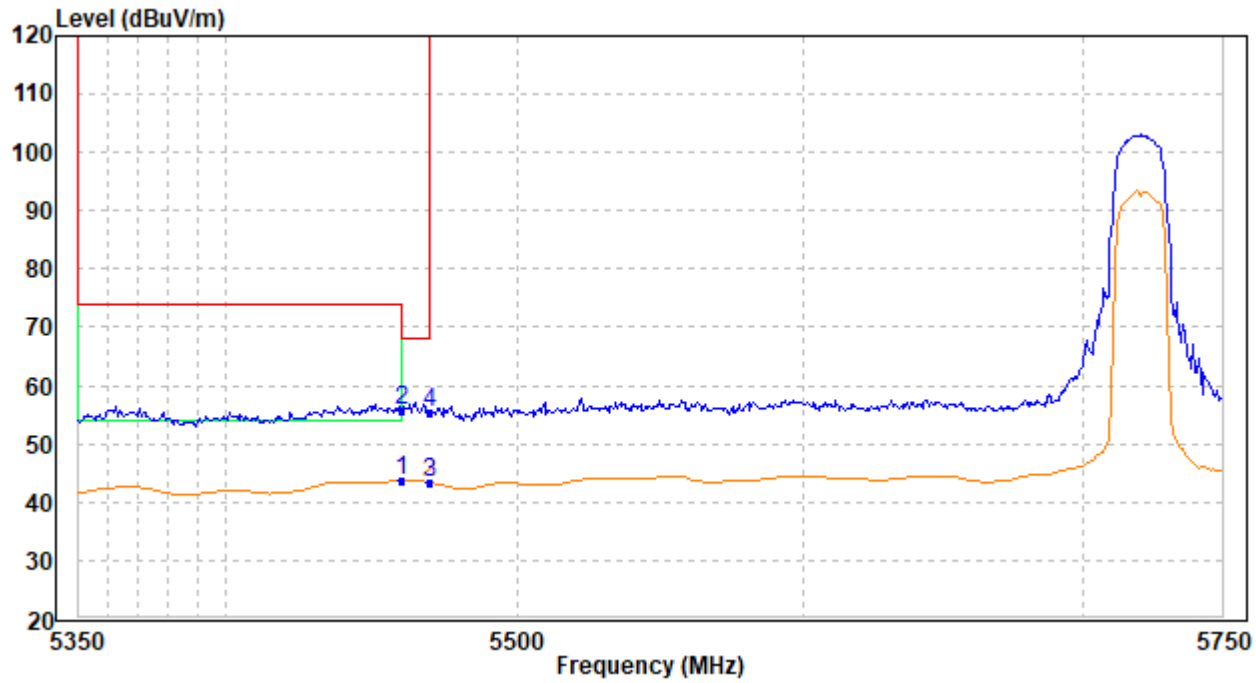
Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Horizontal



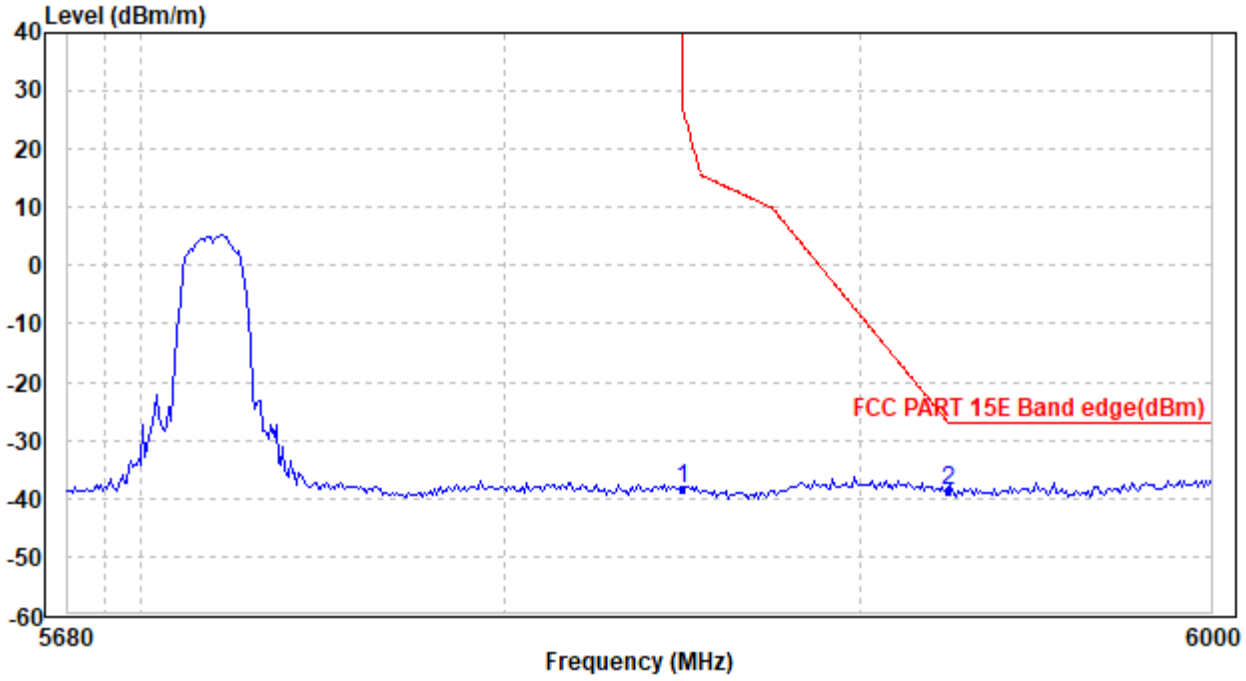
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	56.09	68.20	43.55	54.00	PASS
5470.000	55.52	68.20	43.30	68.20	PASS

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Vertical



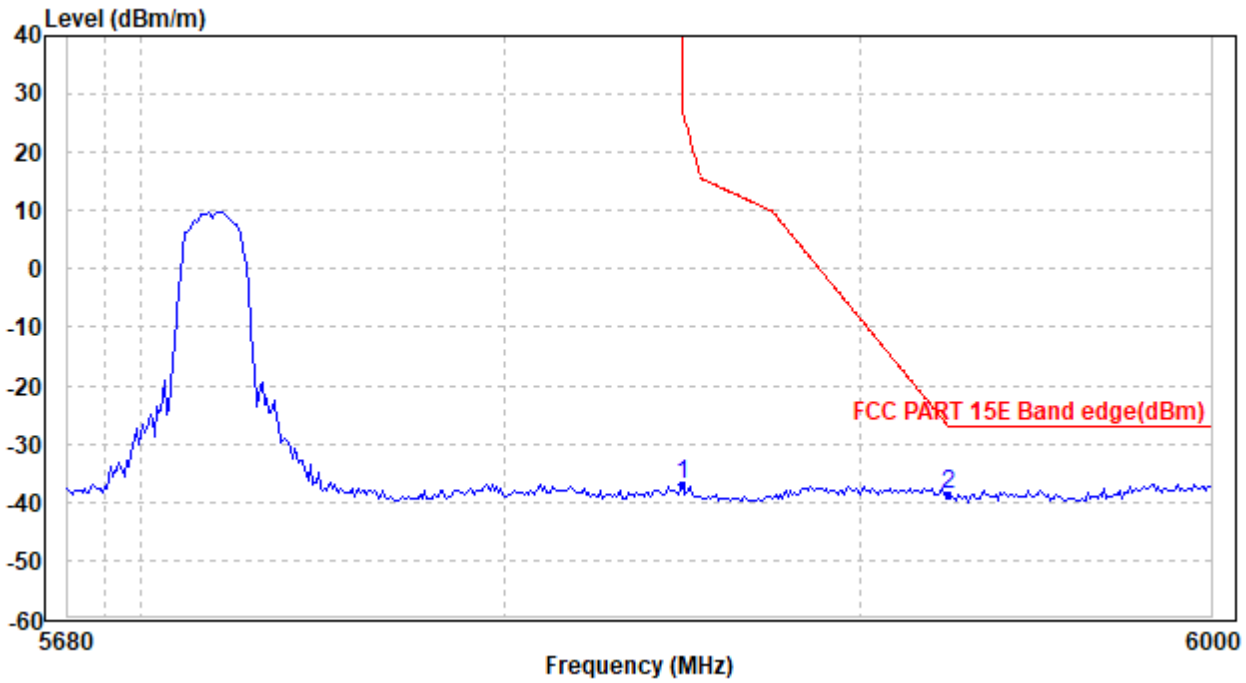
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	55.60	68.20	43.55	54.00	PASS
5470.000	55.44	68.20	43.30	68.20	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Horizontal



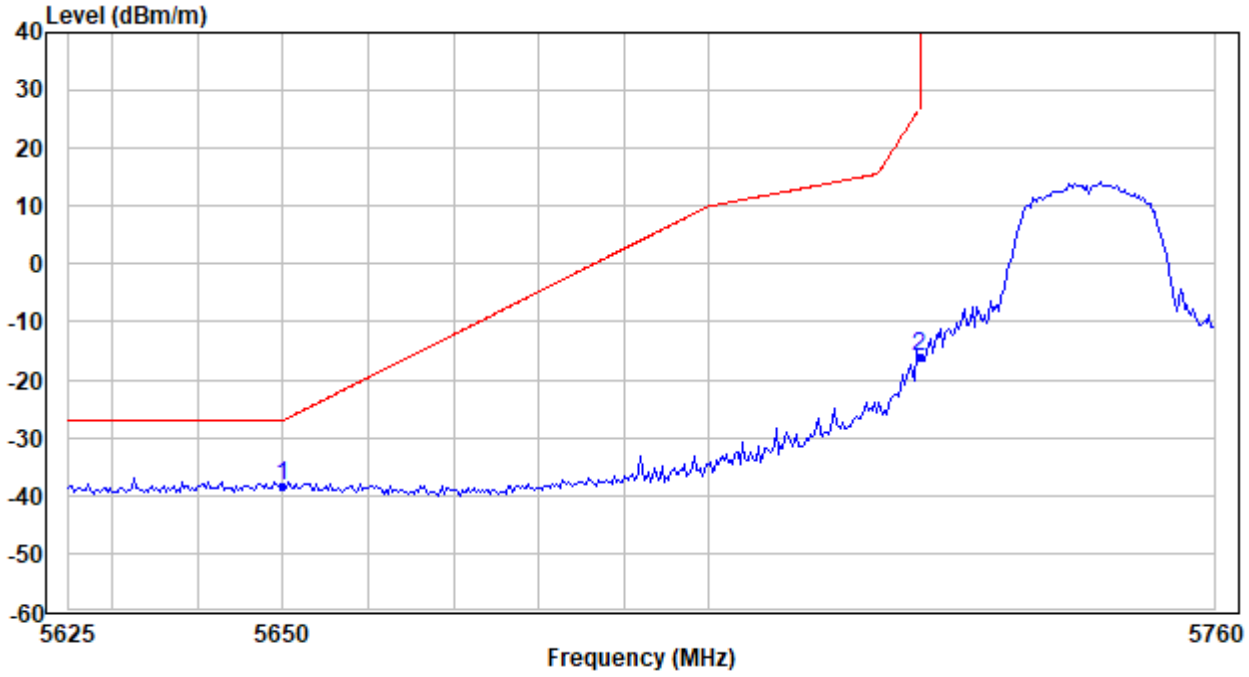
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-38.29	27.00	PASS
5925.000	-38.75	-27.00	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Vertical



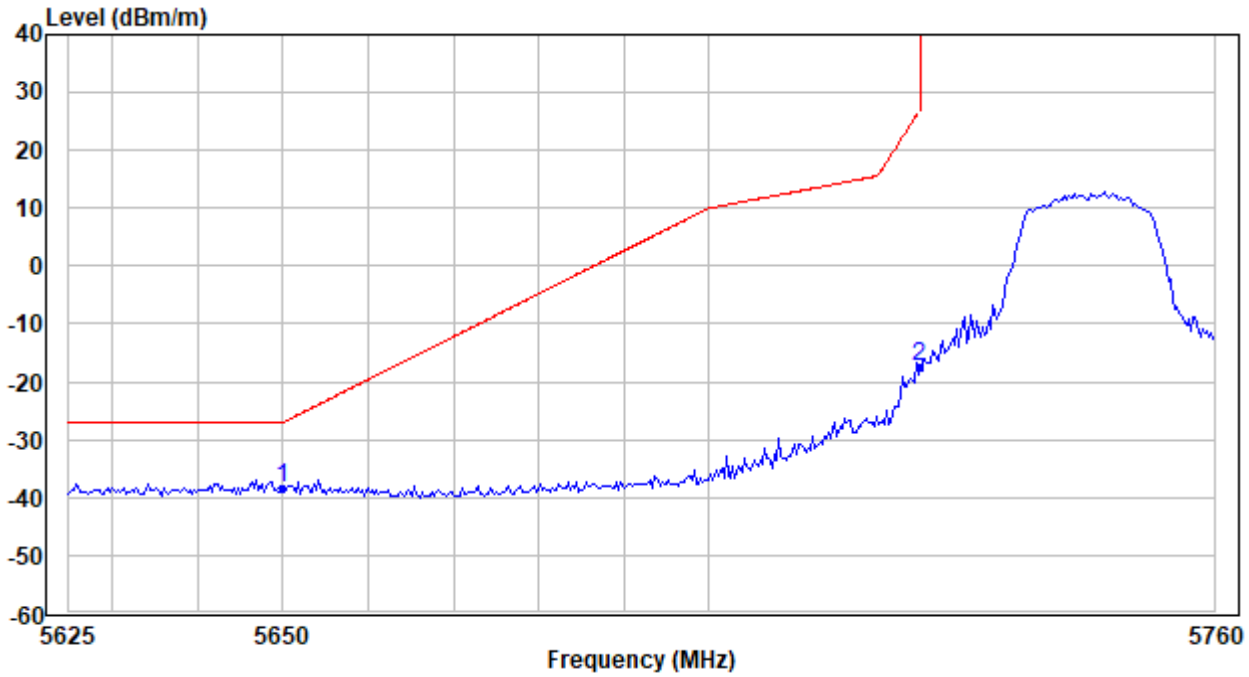
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-37.01	27.00	PASS
5925.000	-38.75	-27.00	PASS

Test Channel:	Channel 149	Ant. Polar. :	Horizontal



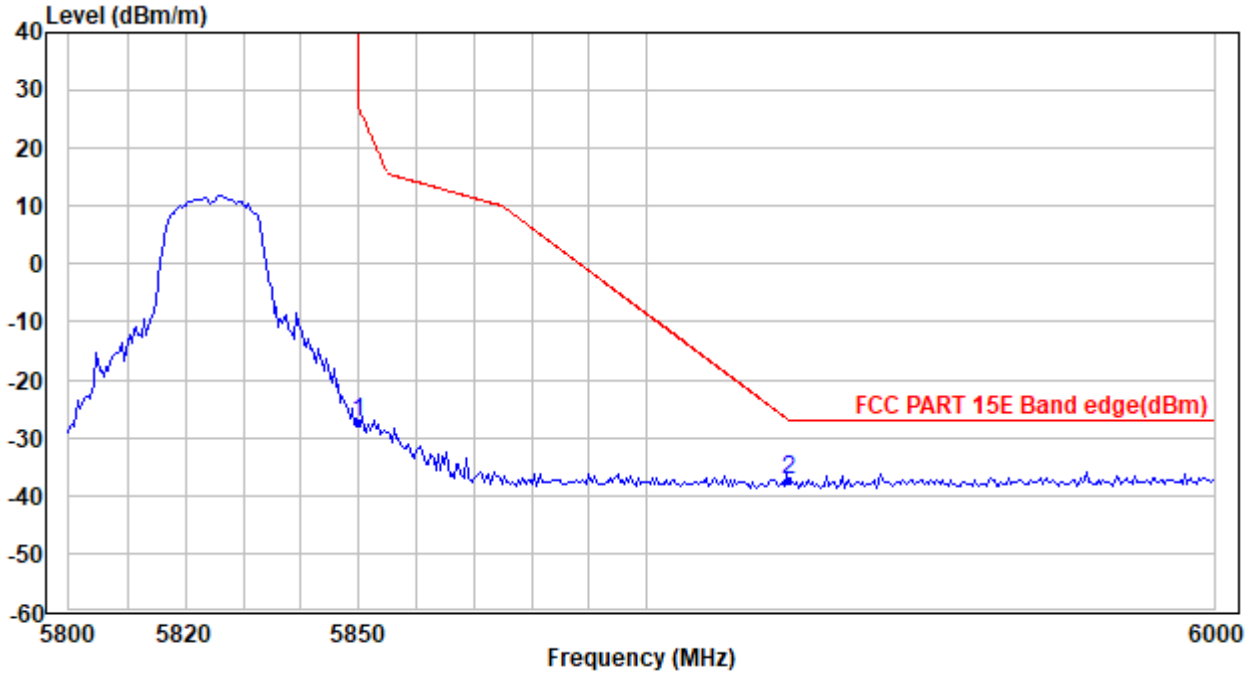
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-38.30	-27.00	Pass
5725.000	-15.93	27.00	Pass

Test Channel:	Channel 149	Ant. Polar. :	Vertical



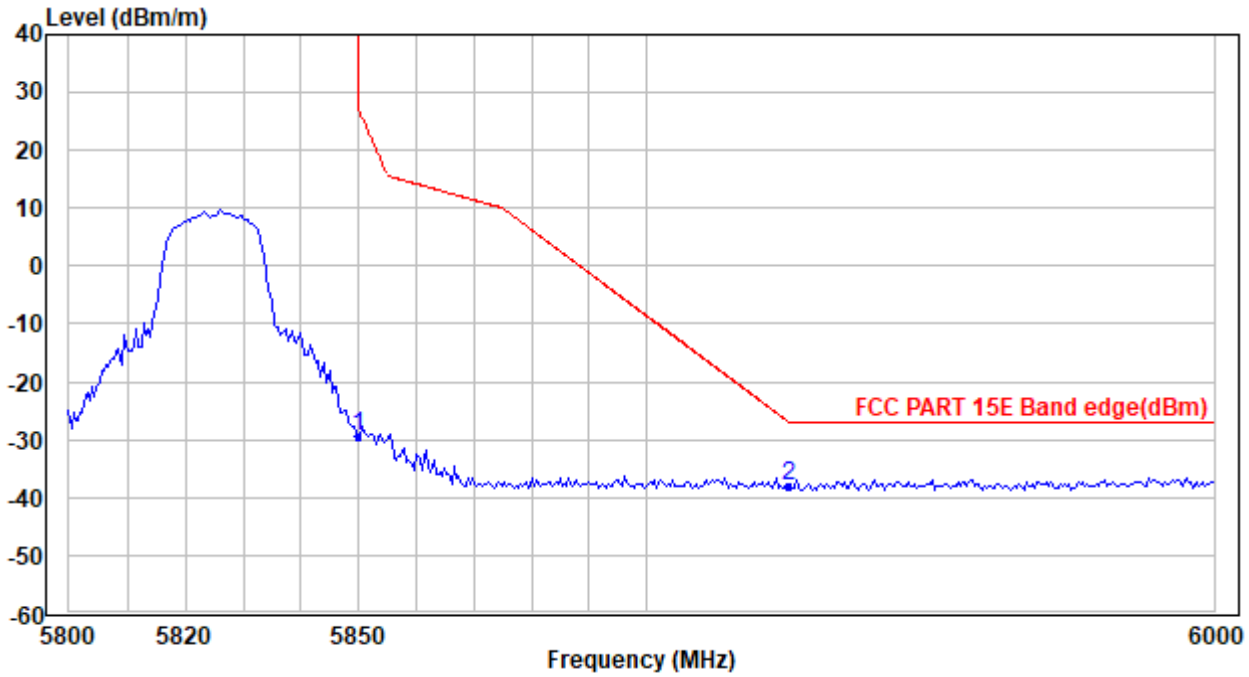
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-38.52	-27.00	Pass
5725.000	-17.36	27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-27.48	27.00	Pass
5925.000	-37.48	-27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-29.56	27.00	Pass
5925.000	-37.86	-27.00	Pass

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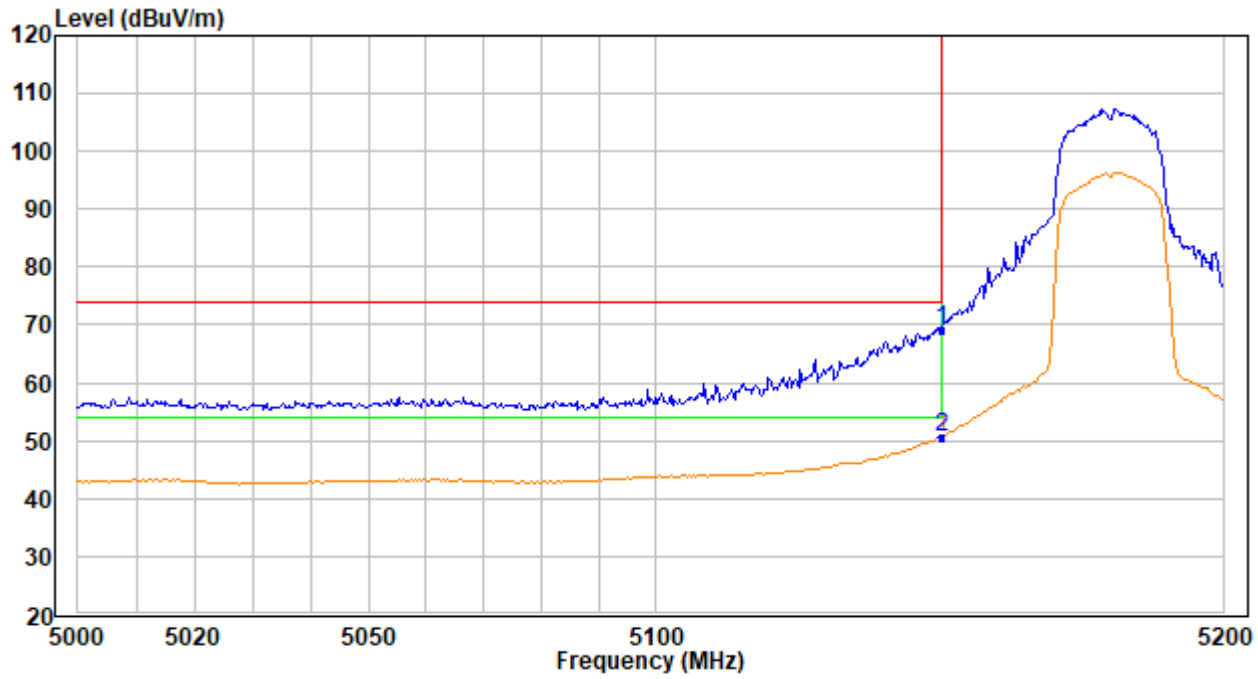
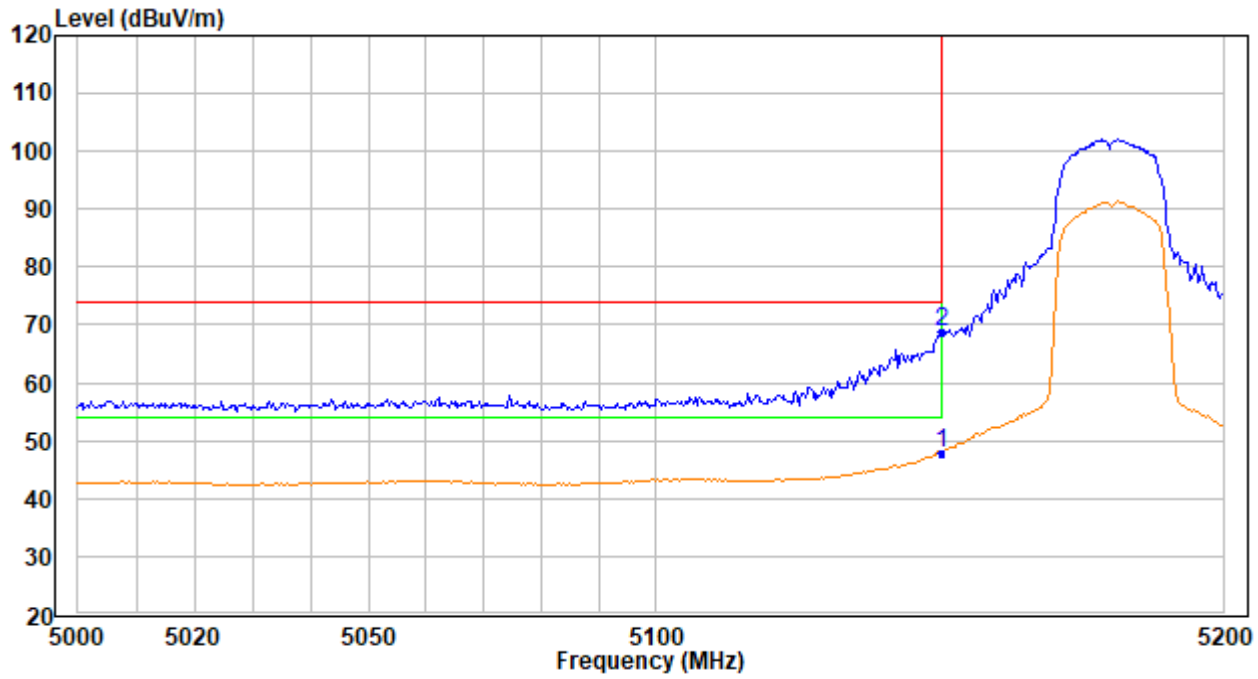
Test Channel:	Channel 36	Ant. Polar. :	Horizontal



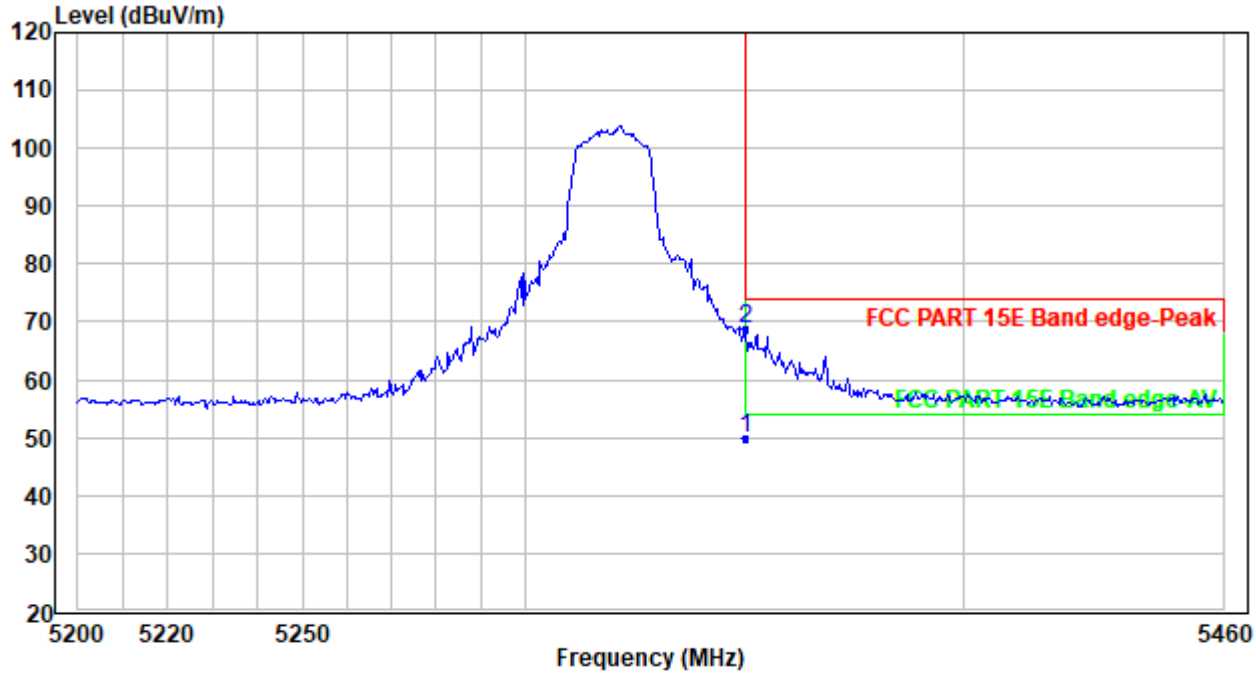
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	69.23	74.00	50.70	54.00	Pass

Test Channel:	Channel 36	Ant. Polar. :	Vertical



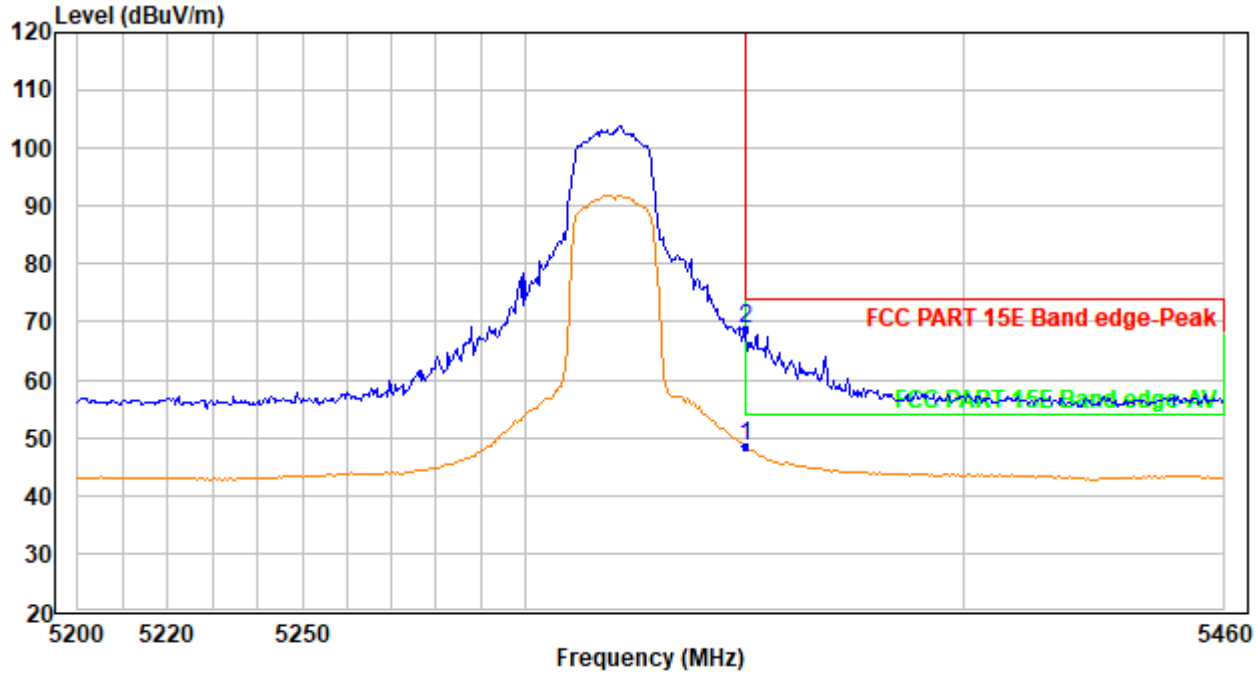
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	68.80	74.00	47.79	54.00	Pass

Test Channel:	Channel 64	Ant. Polar. :	Horizontal



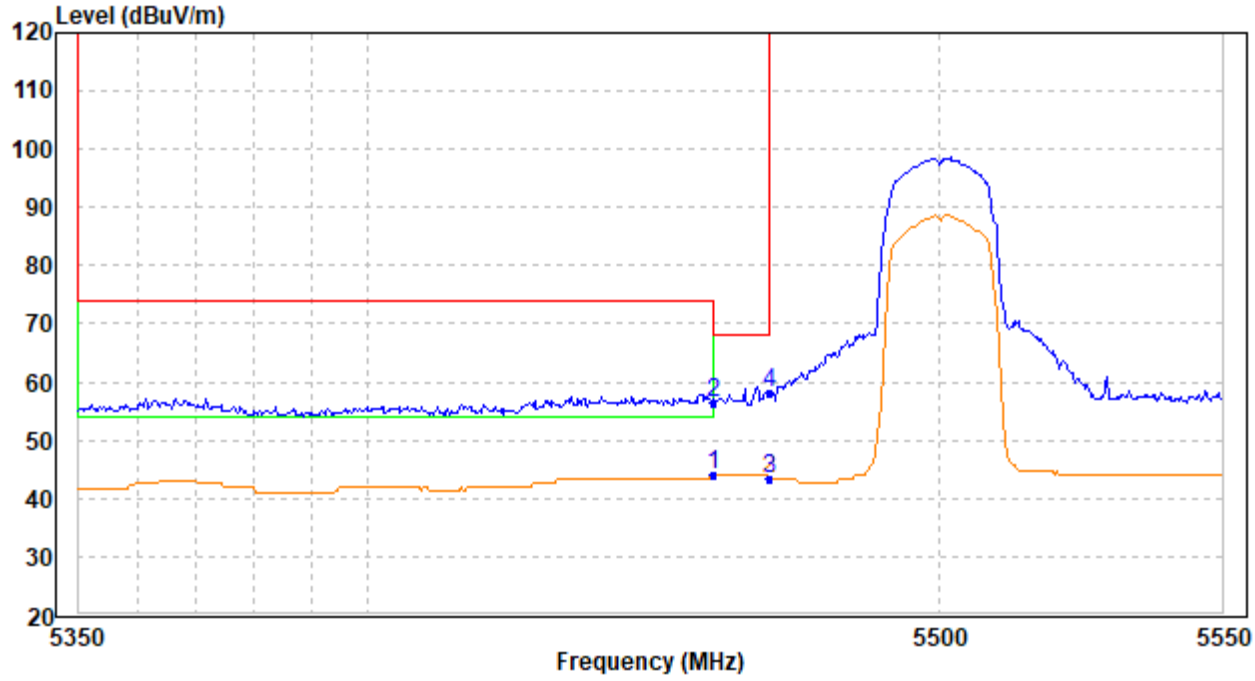
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5350.000	68.80	74.00	49.80	54.00	Pass

Test Channel:	Channel 64	Ant. Polar. :	Vertical



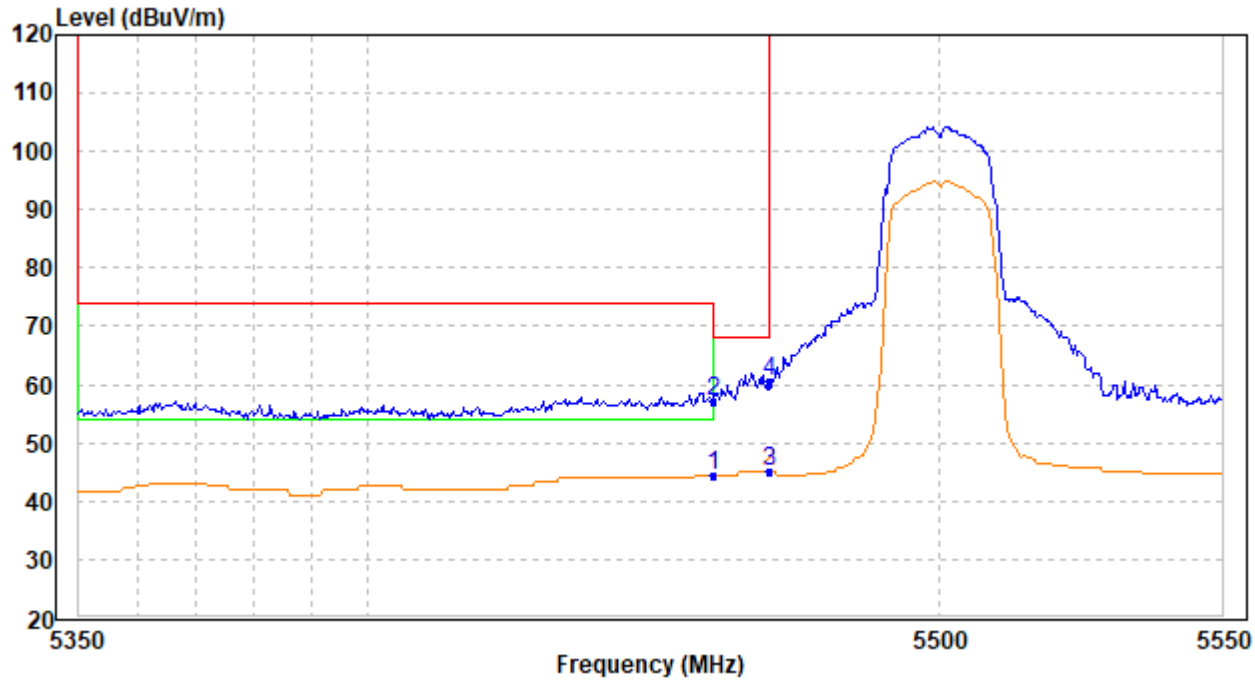
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5350.000	68.80	74.00	48.39	54.00	Pass

Test Channel:	Channel 100	Ant. Polar. :	Horizontal



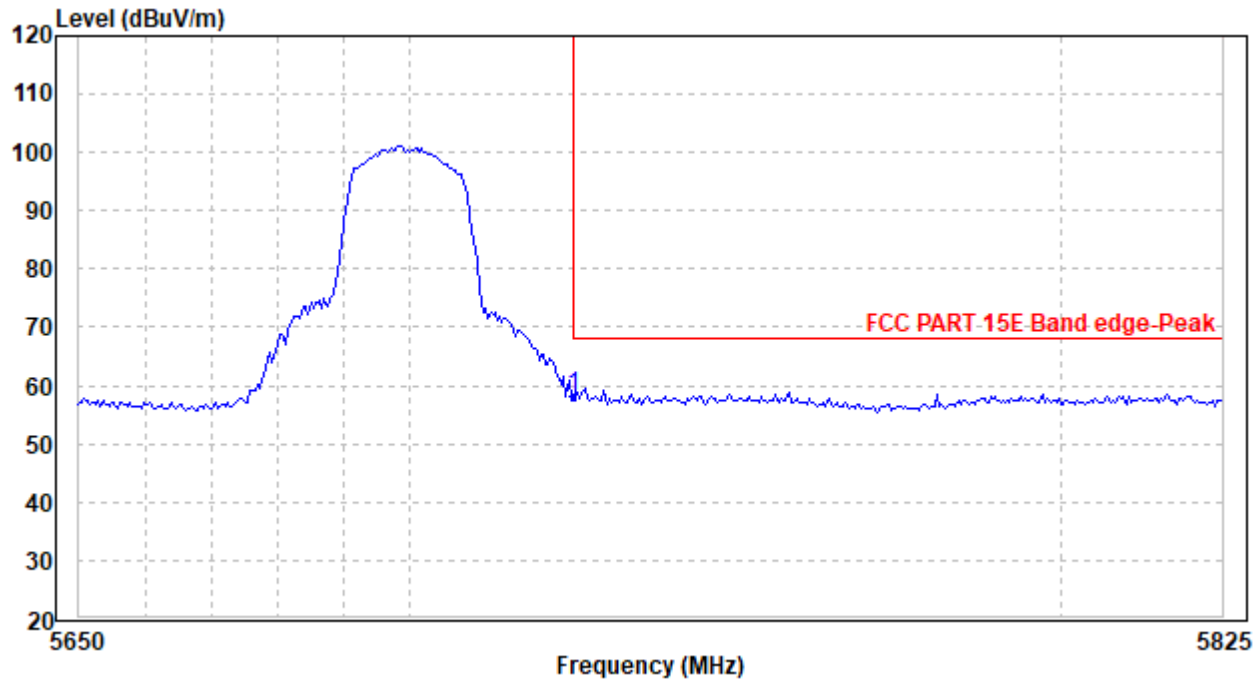
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	56.57	68.20	43.97	54.00	Pass
5470.000	58.22	68.20	43.40	68.20	Pass

Test Channel:	Channel 100	Ant. Polar. :	Vertical



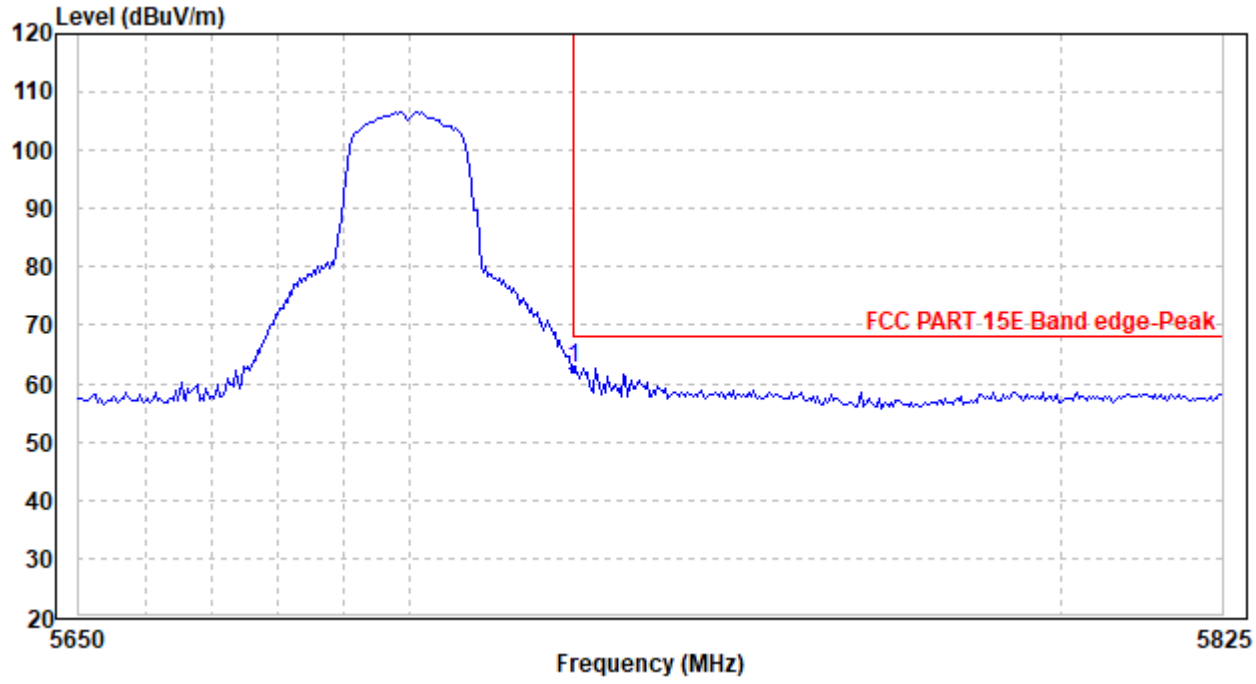
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	57.16	68.20	44.53	54.00	Pass
5470.000	60.41	68.20	45.08	68.20	Pass

Test Channel:	Channel 140	Ant. Polar. :	Horizontal



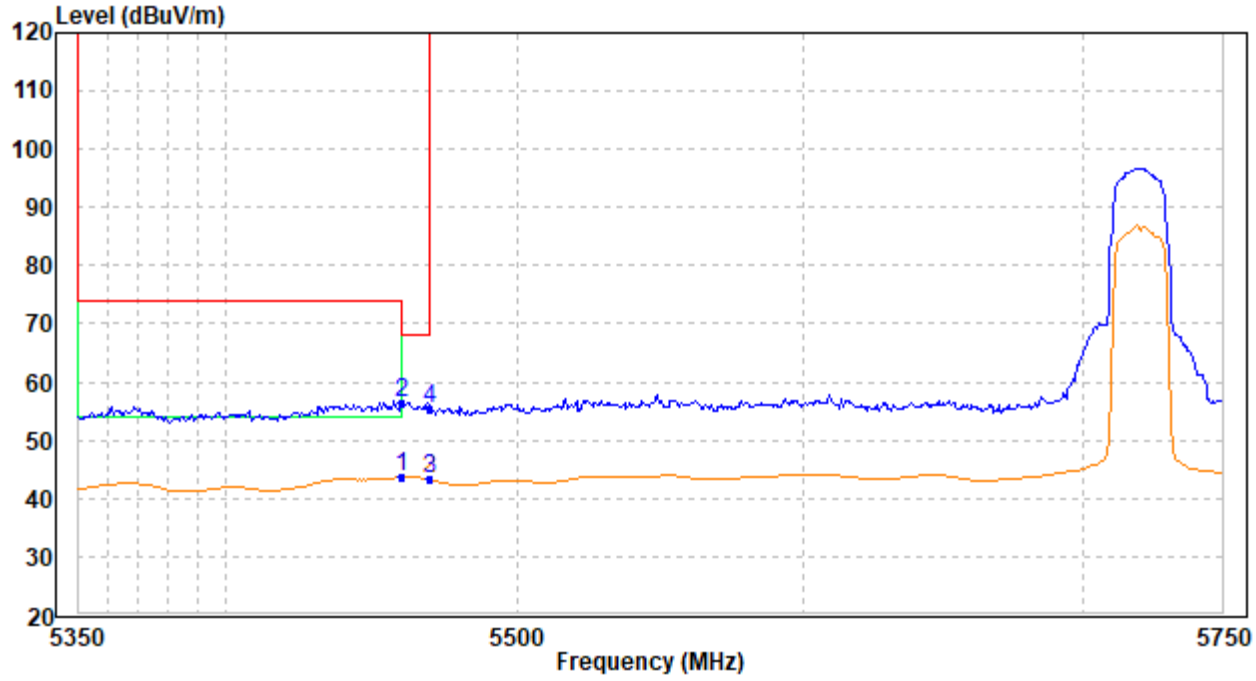
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	58.26	68.20	Pass

Test Channel:	Channel 140	Ant. Polar. :	Vertical



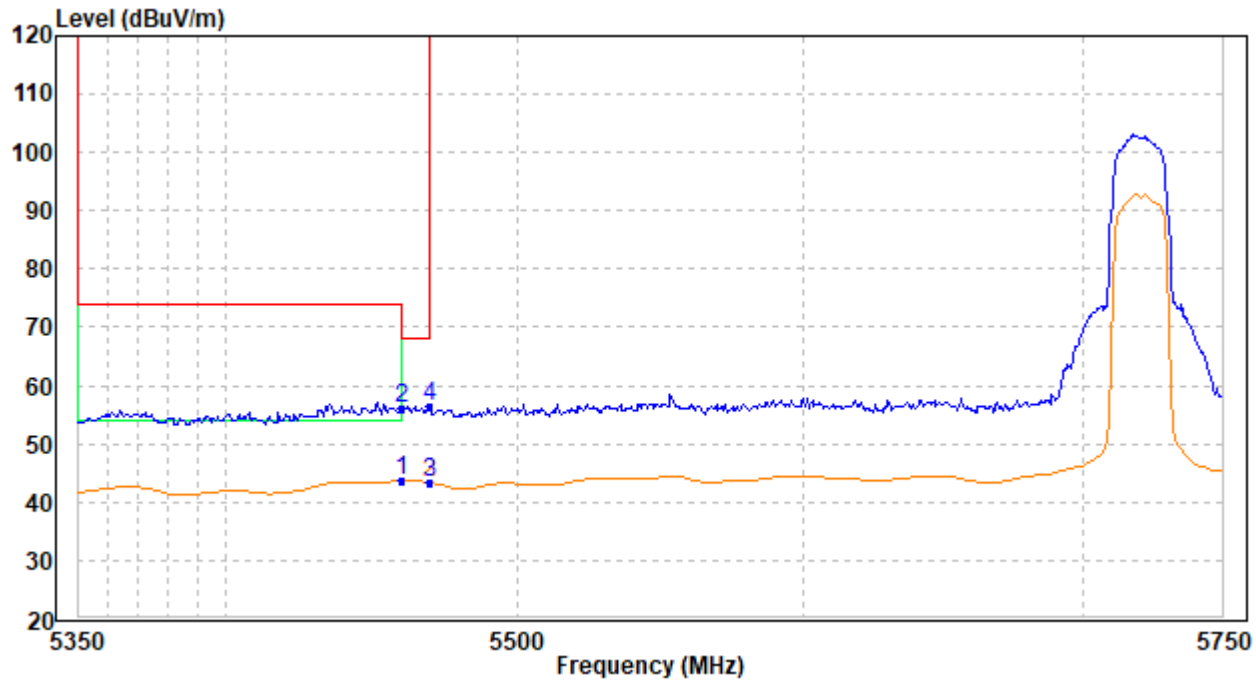
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	62.68	68.20	Pass

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Horizontal



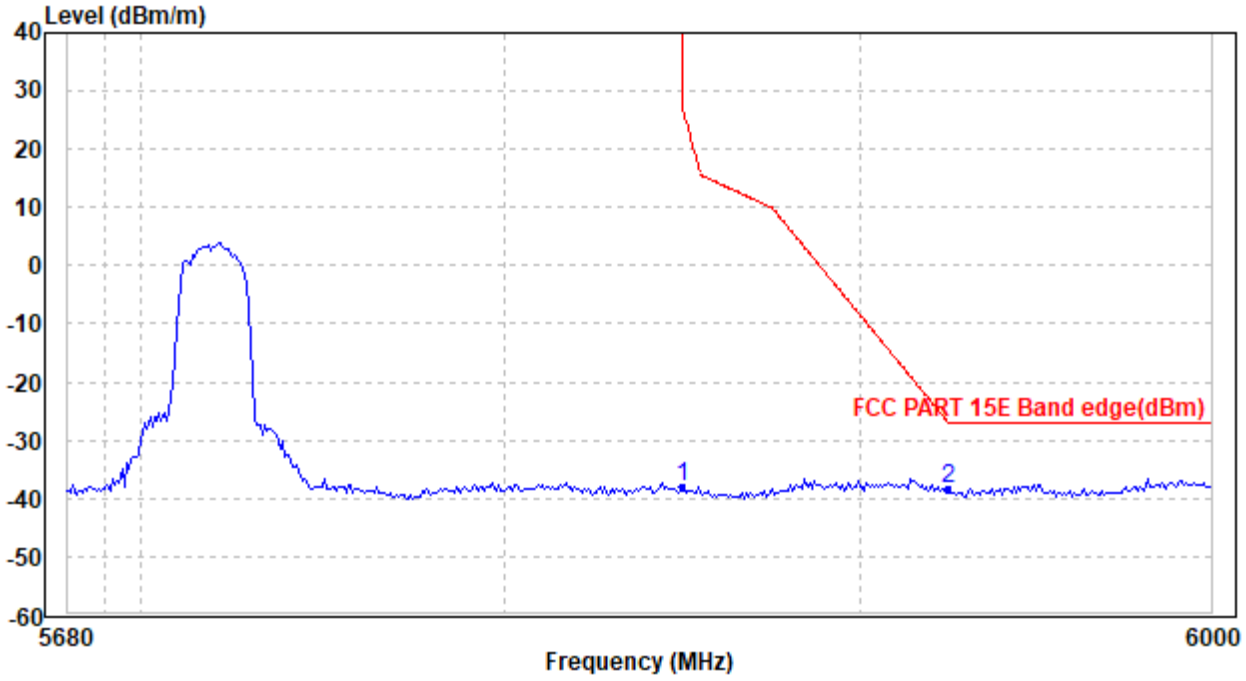
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	56.38	68.20	43.55	54.00	PASS
5470.000	55.39	68.20	43.30	68.20	PASS

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Vertical



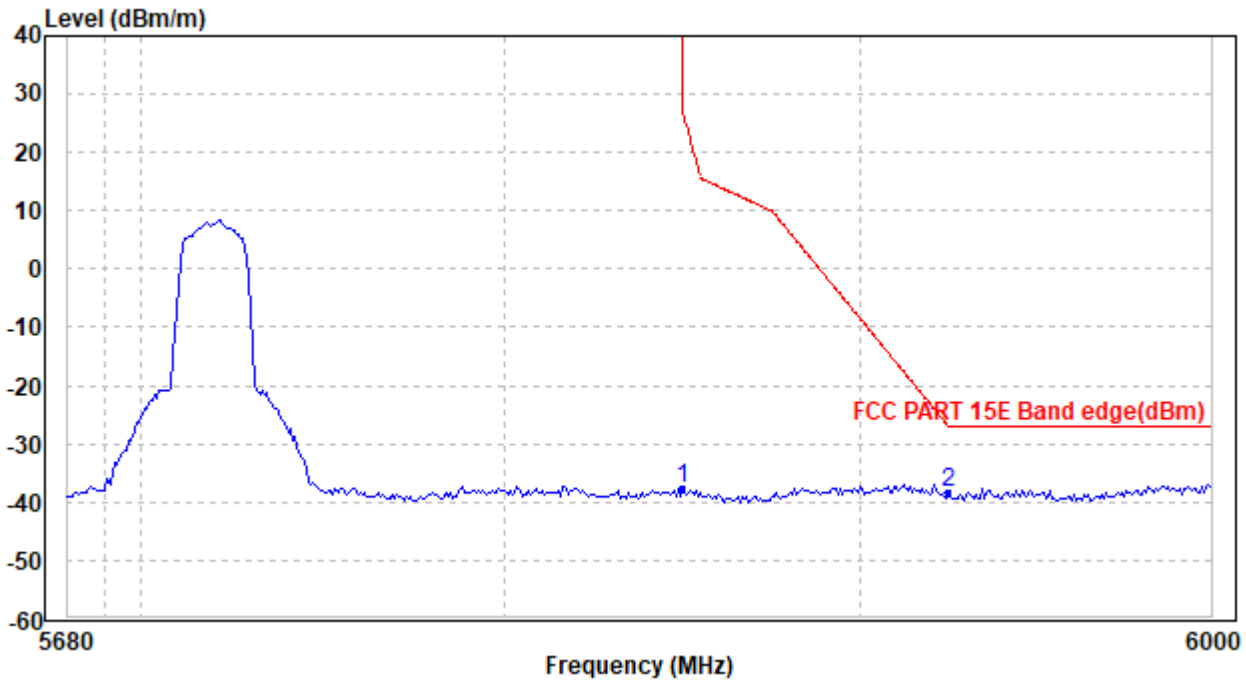
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	55.92	68.20	43.55	54.00	PASS
5470.000	56.33	68.20	43.30	68.20	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Horizontal



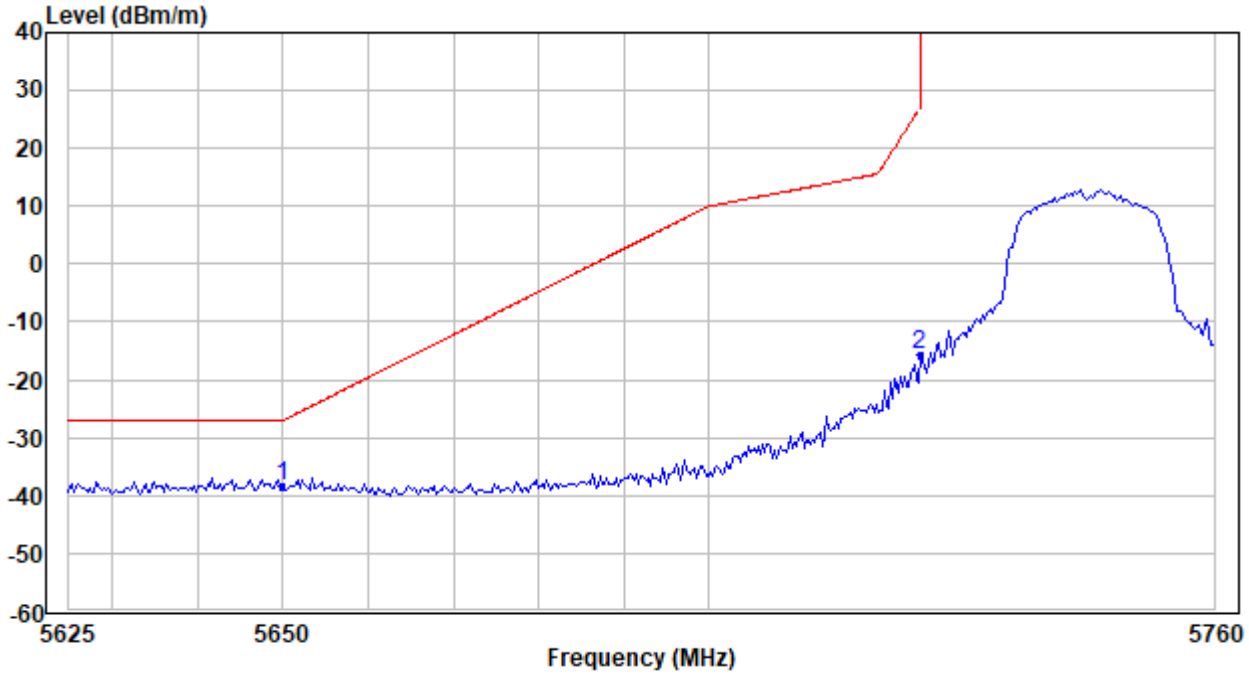
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-38.11	27.00	PASS
5925.000	-38.45	-27.00	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Vertical



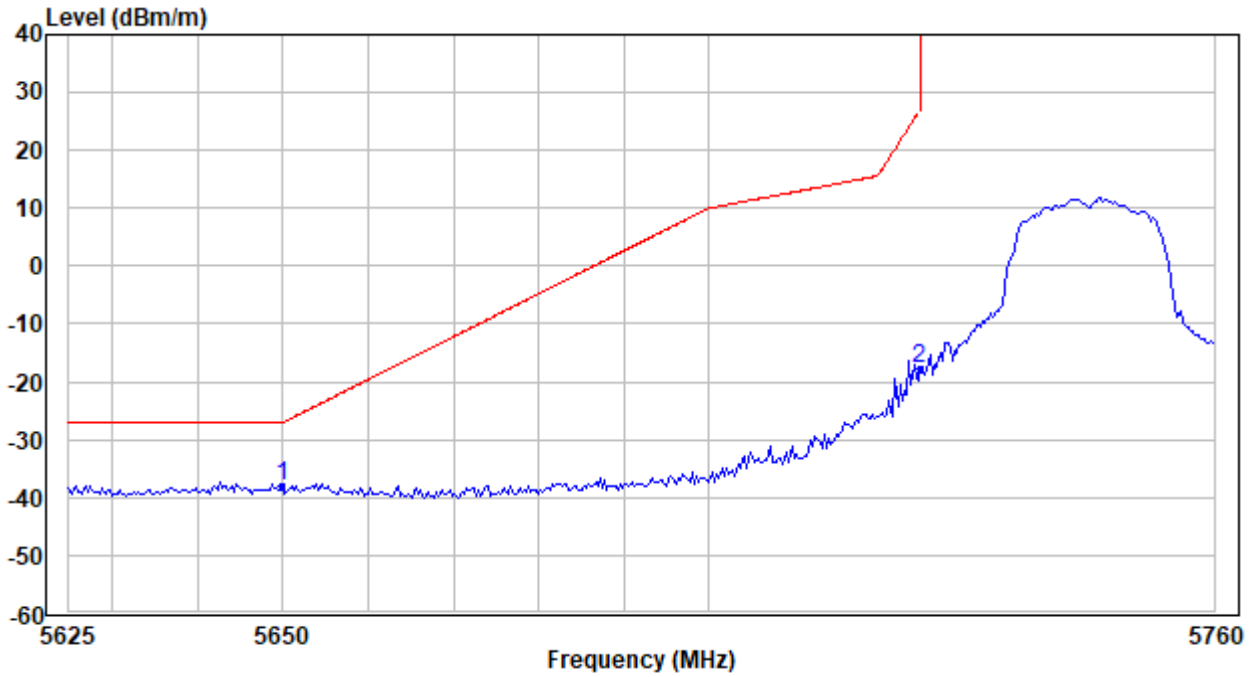
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-37.54	27.00	PASS
5925.000	-38.36	-27.00	PASS

Test Channel:	Channel 149	Ant. Polar. :	Horizontal



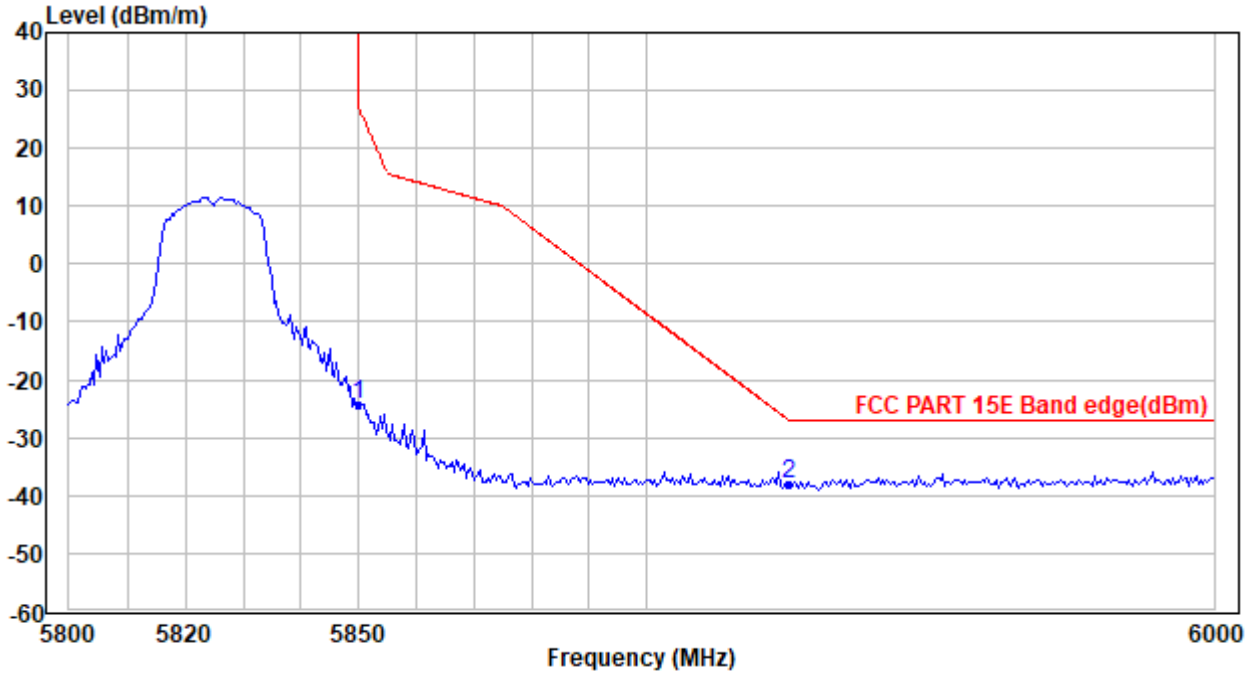
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-38.33	-27.00	Pass
5725.000	-15.80	27.00	Pass

Test Channel:	Channel 149	Ant. Polar. :	Vertical



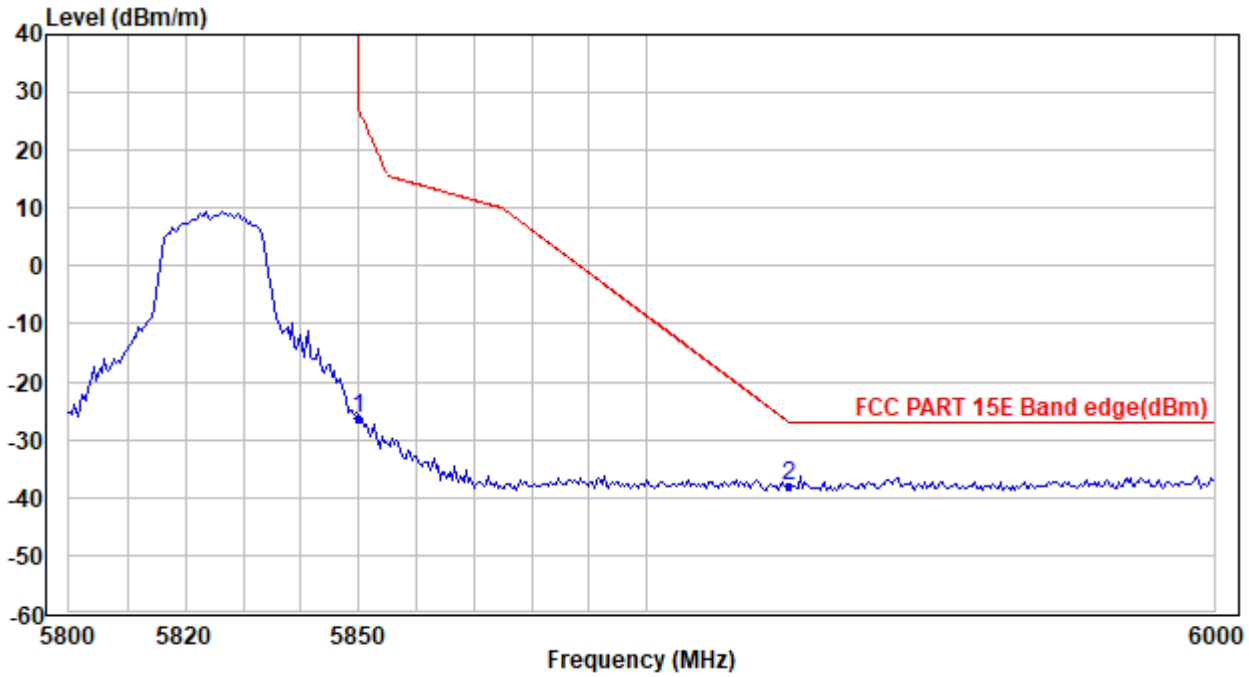
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-37.90	-27.00	Pass
5725.000	-17.79	27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-24.21	27.00	Pass
5925.000	-38.16	-27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-26.37	27.00	Pass
5925.000	-38.00	-27.00	Pass

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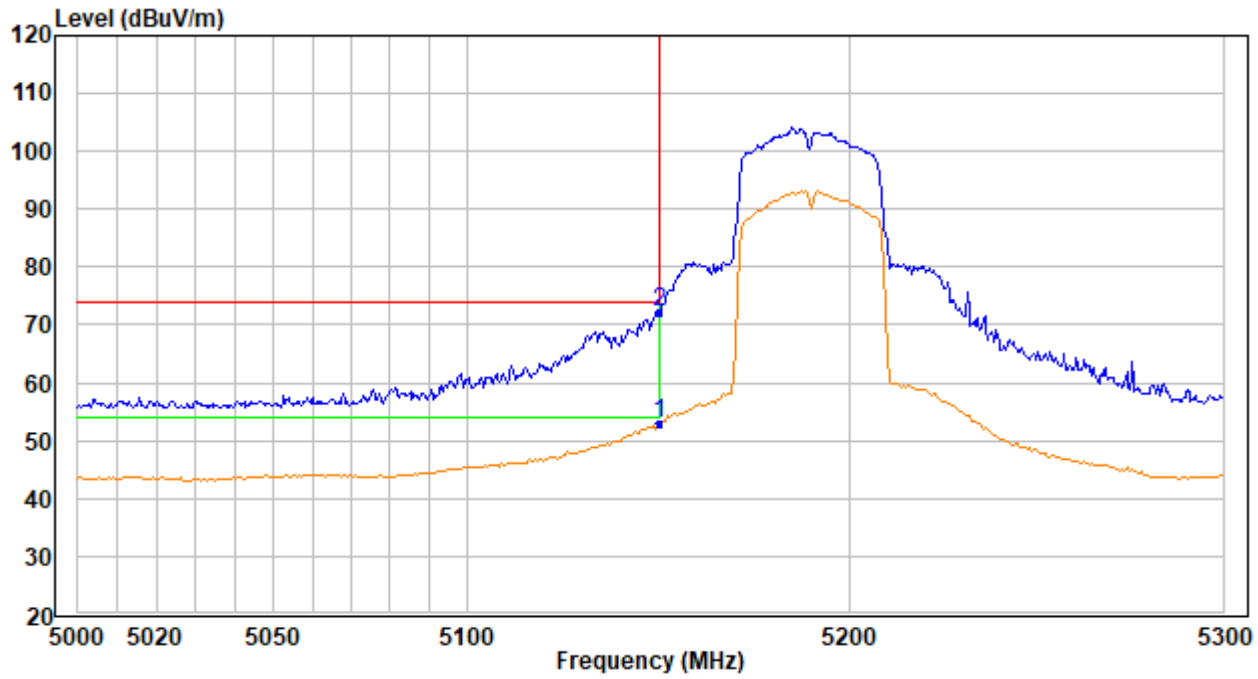
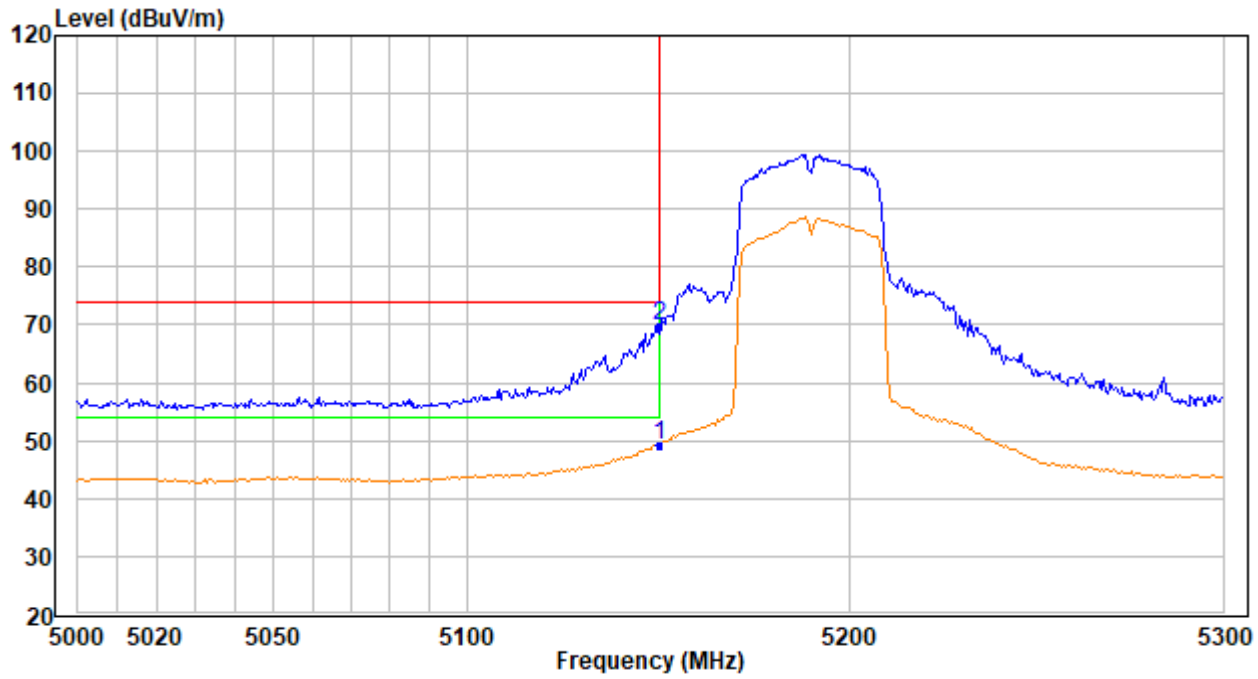
Test Channel:	Channel 38	Ant. Polar. :	Horizontal



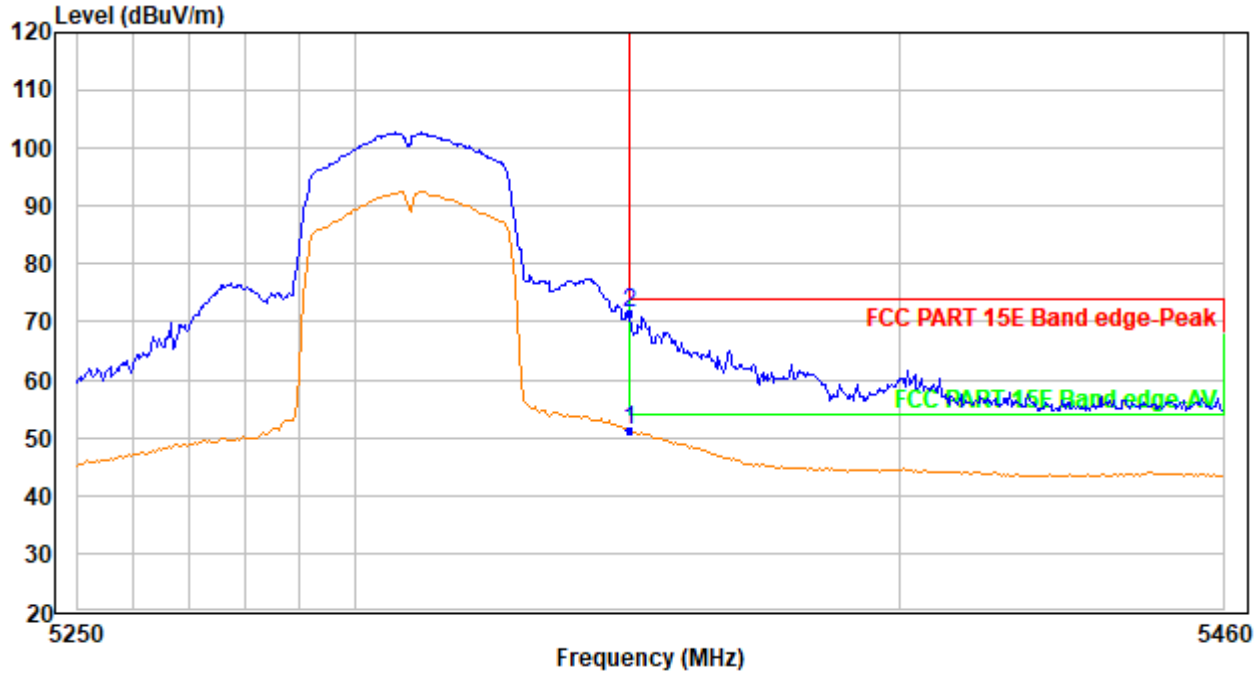
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	72.15	74.00	52.91	54.00	Pass

Test Channel:	Channel 38	Ant. Polar. :	Vertical



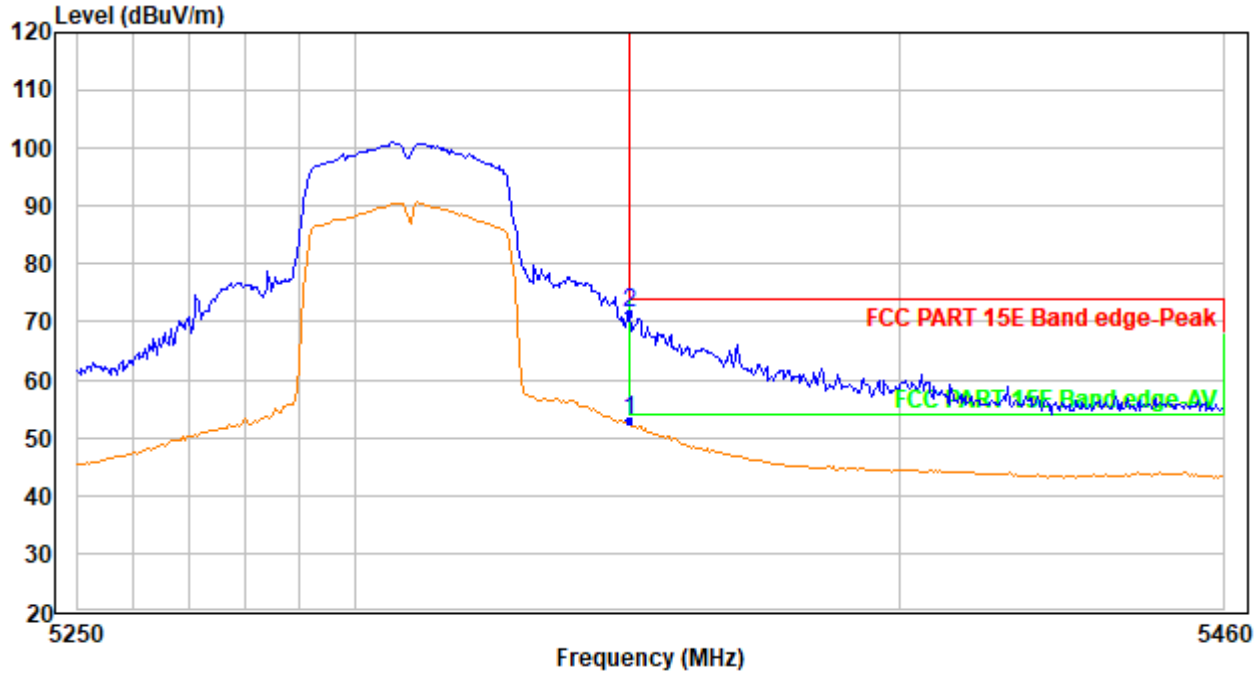
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	69.90	74.00	49.21	54.00	Pass

Test Channel:	Channel 62	Ant. Polar. :	Horizontal



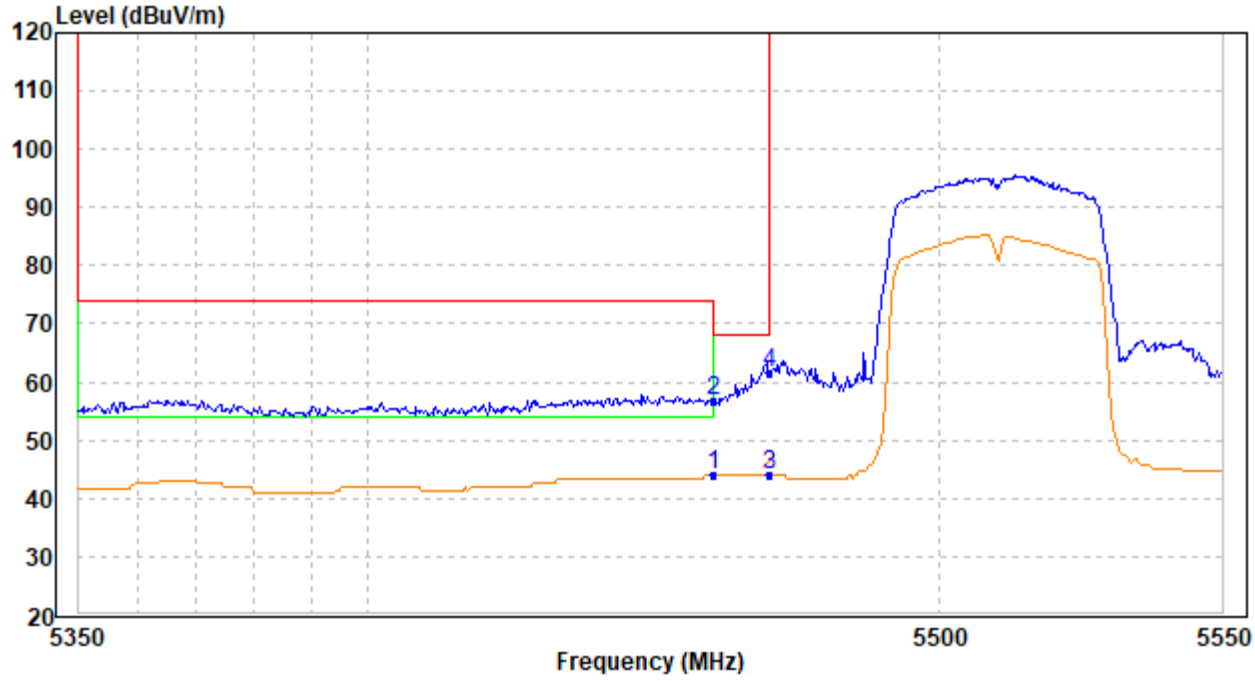
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5350.000	71.62	74.00	51.32	54.00	Pass

Test Channel:	Channel 62	Ant. Polar. :	Vertical



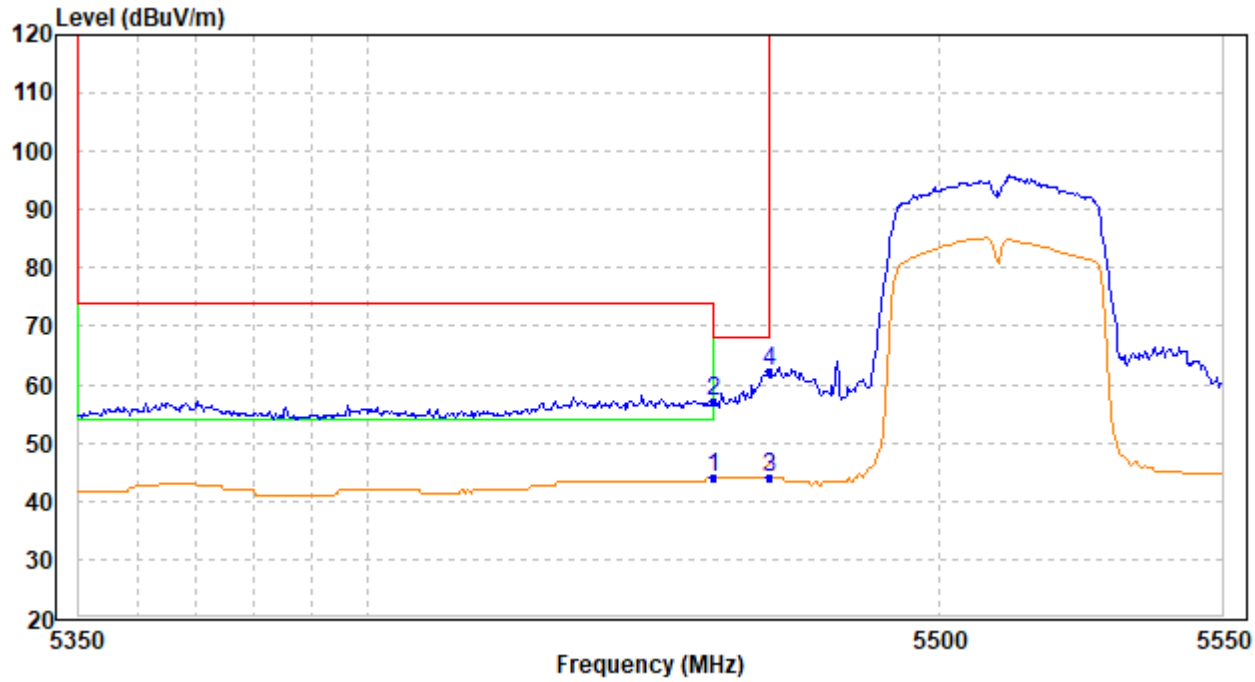
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5350.000	71.46	74.00	52.87	54.00	Pass

Test Channel:	Channel 102	Ant. Polar. :	Horizontal



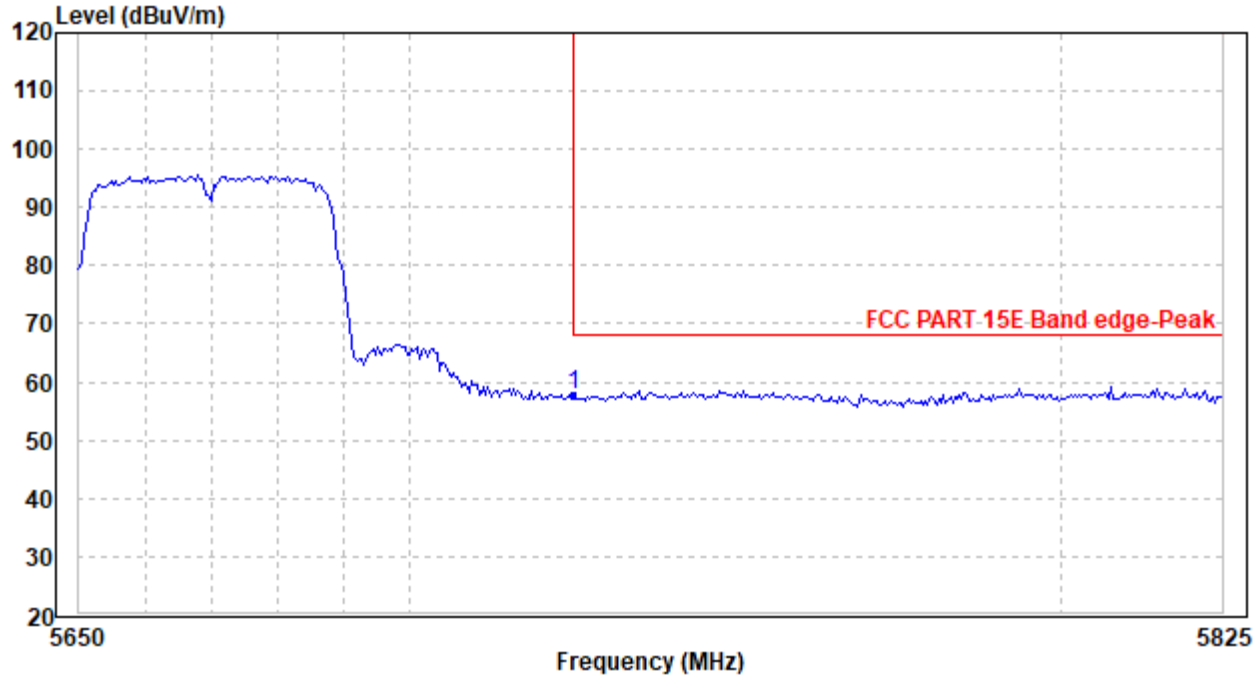
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	56.61	68.20	43.97	54.00	Pass
5470.000	61.66	68.20	43.99	68.20	Pass

Test Channel:	Channel 102	Ant. Polar. :	Vertical



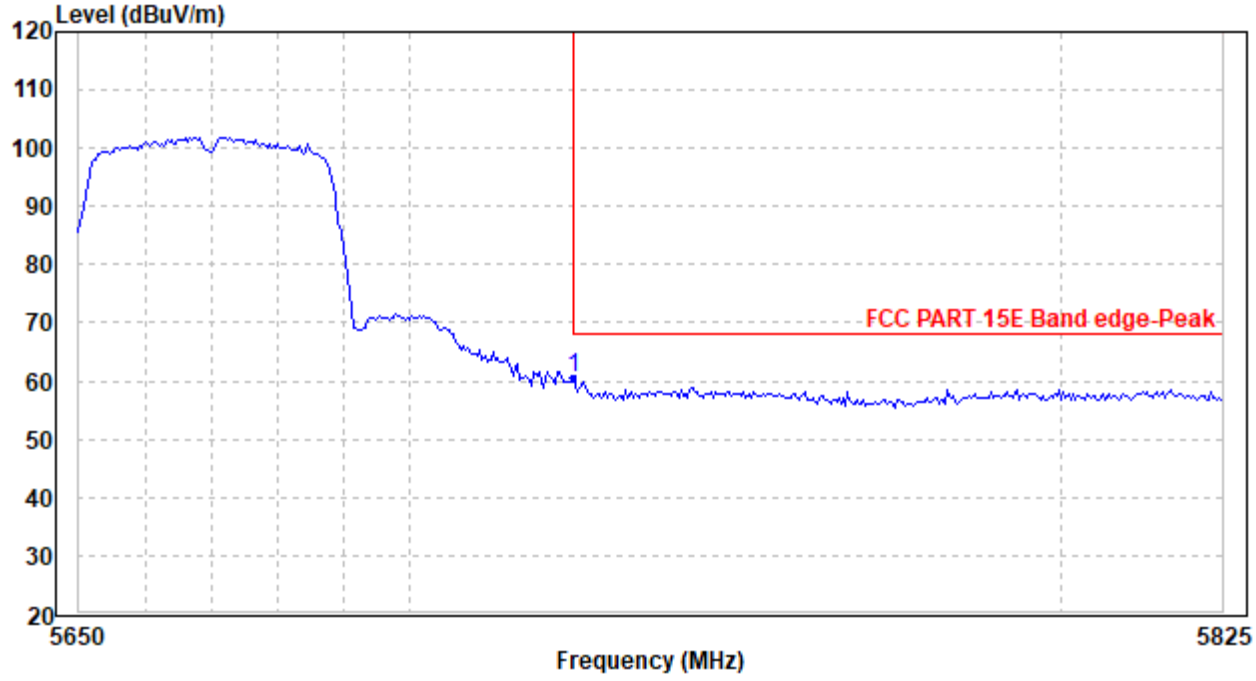
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	57.04	68.20	43.97	54.00	Pass
5470.000	62.22	68.20	43.99	68.20	Pass

Test Channel:	Channel 134	Ant. Polar. :	Horizontal



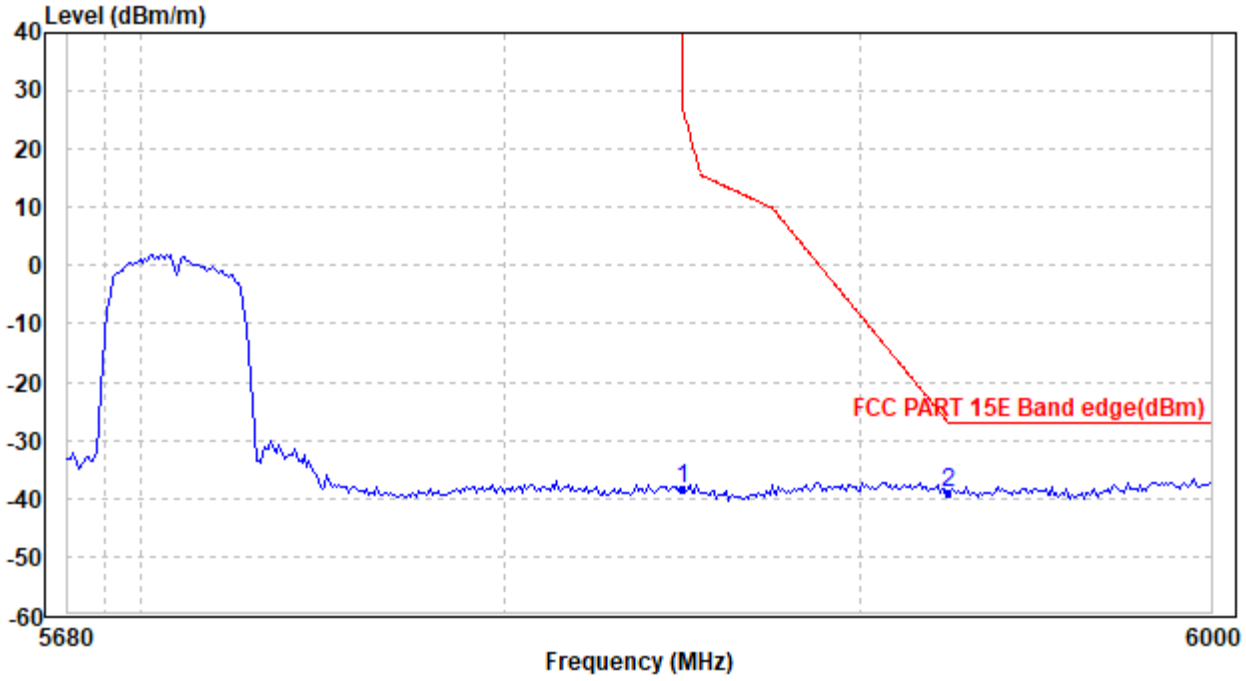
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	57.82	68.20	Pass

Test Channel:	Channel 134	Ant. Polar. :	Vertical



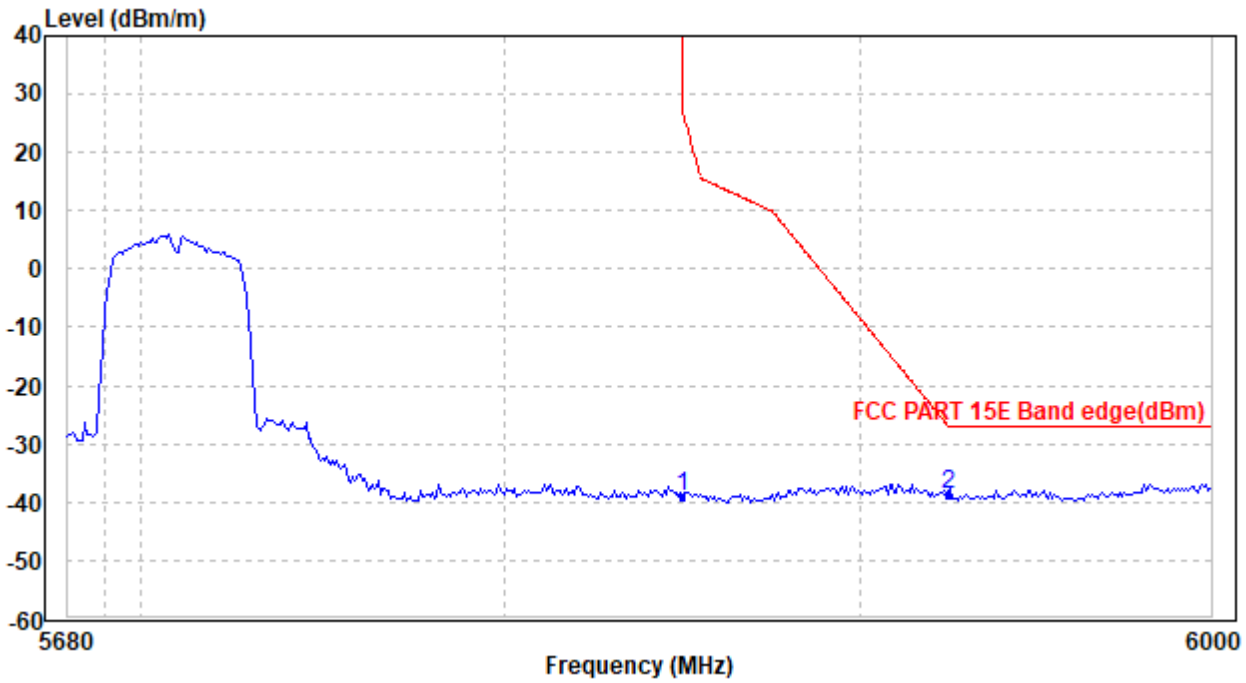
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	60.56	68.20	Pass

Test Channel:	Channel 142_U-NII-3	Ant. Polar. :	Horizontal



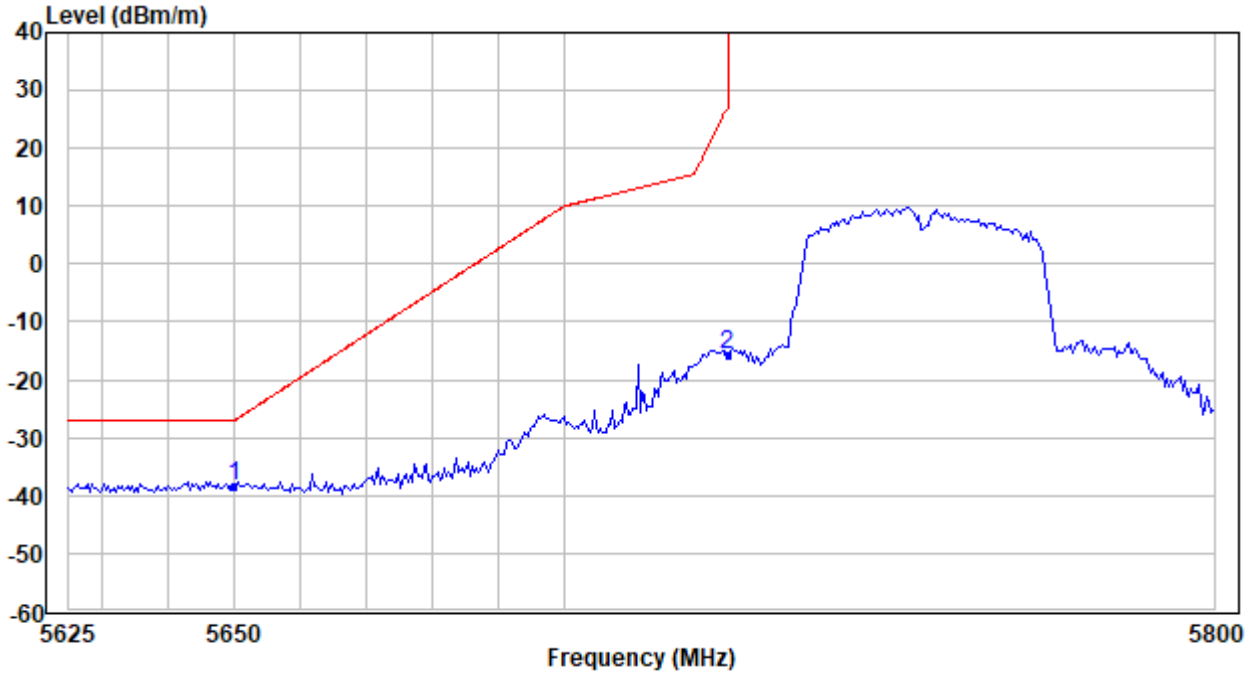
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-38.50	27.00	PASS
5925.000	-39.18	-27.00	PASS

Test Channel:	Channel 142_U-NII-3	Ant. Polar. :	Vertical



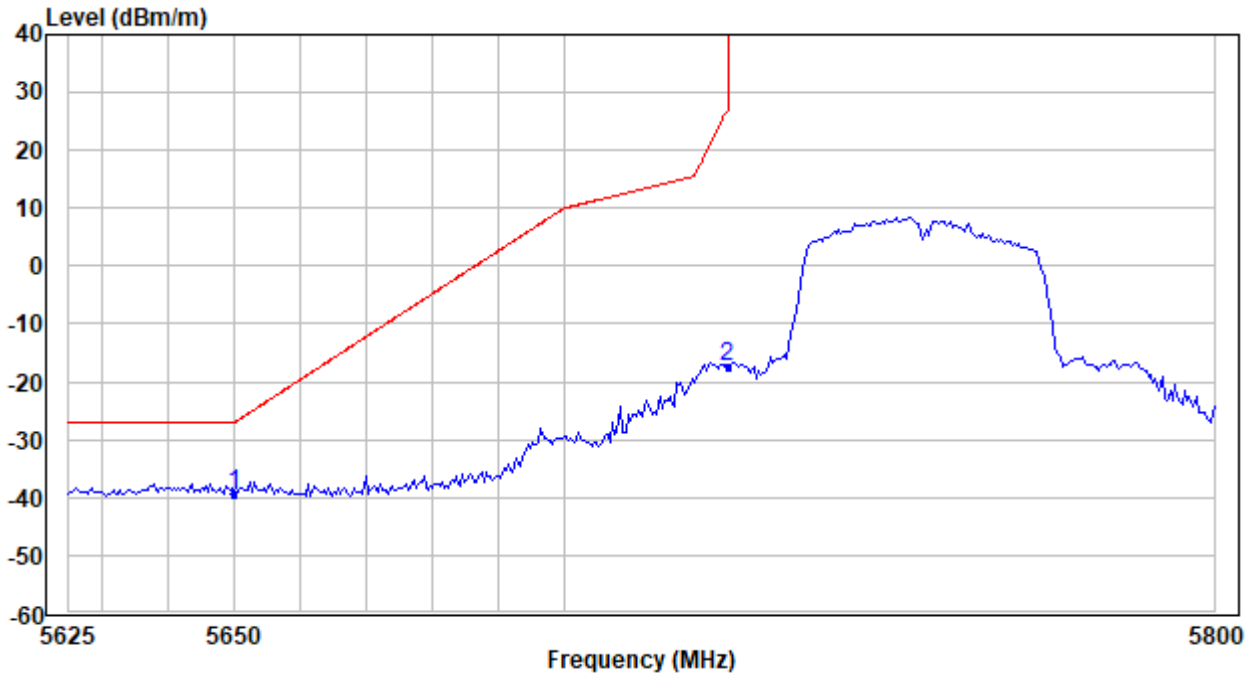
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-39.09	27.00	PASS
5925.000	-38.59	-27.00	PASS

Test Channel:	Channel 151	Ant. Polar. :	Horizontal



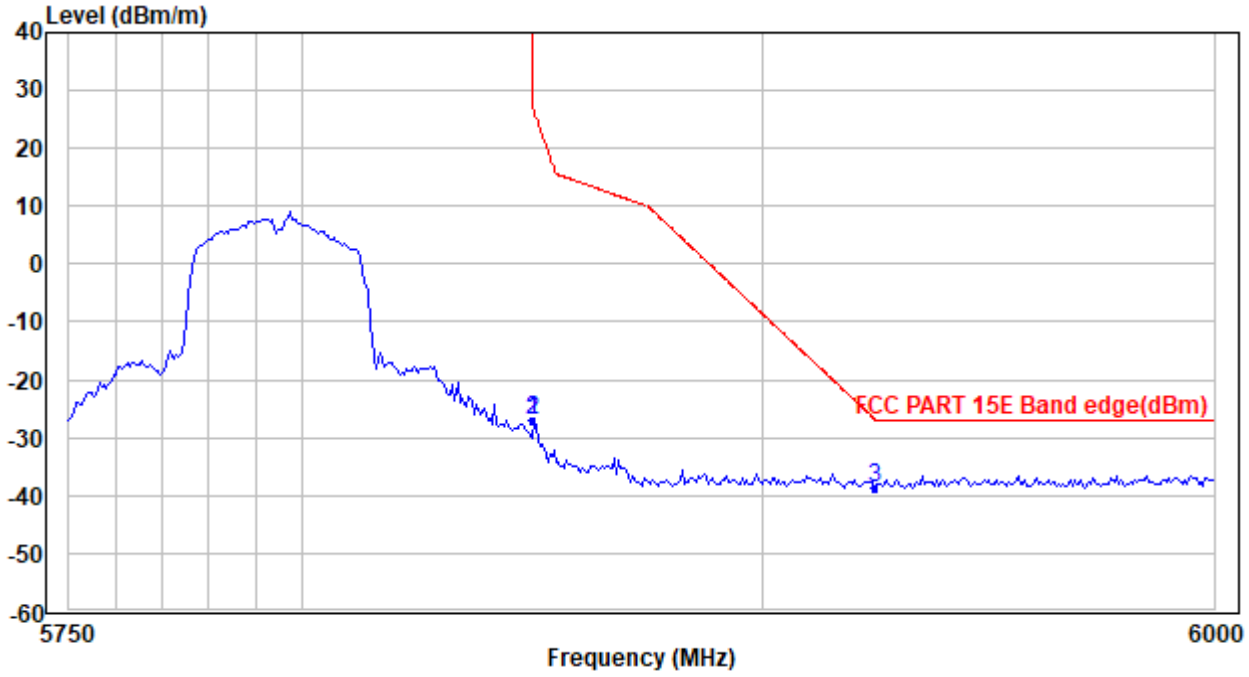
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-38.26	-27.00	Pass
5725.000	-15.54	27.00	Pass

Test Channel:	Channel 151	Ant. Polar. :	Vertical



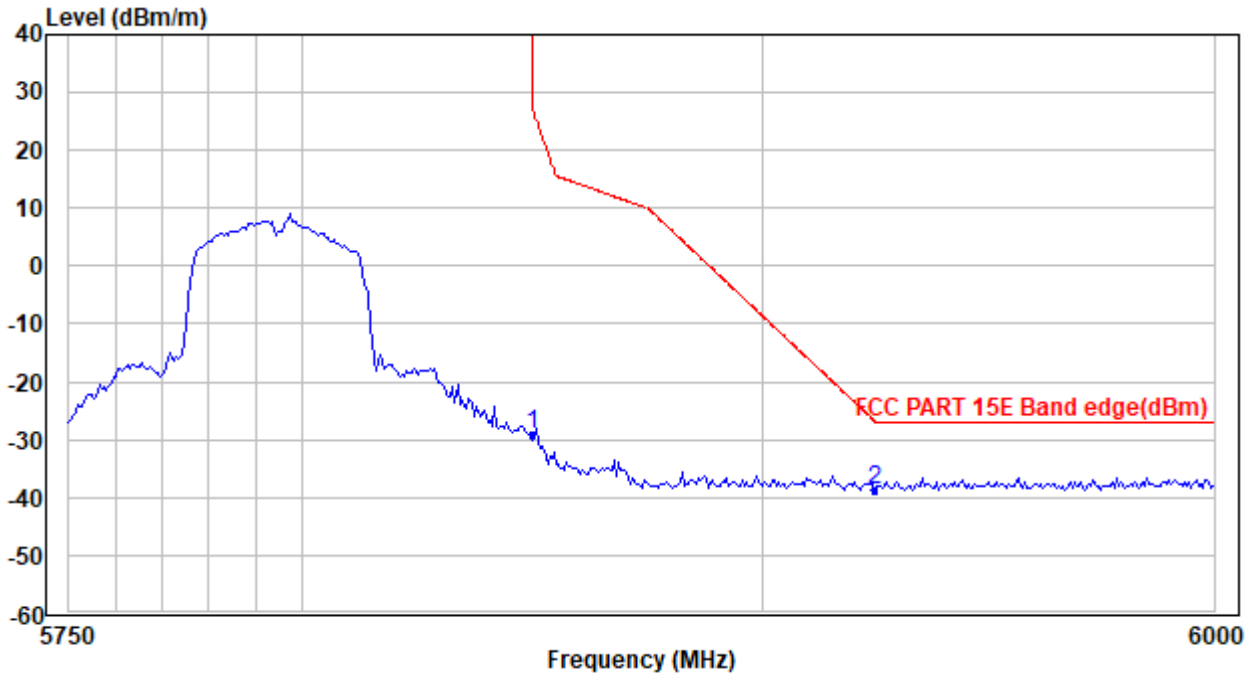
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-39.34	-27.00	Pass
5725.000	-17.54	27.00	Pass

Test Channel:	Channel 159	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-26.96	27.00	Pass
5925.000	-38.56	-27.00	Pass

Test Channel:	Channel 159	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-28.96	27.00	Pass
5925.000	-38.64	-27.00	Pass

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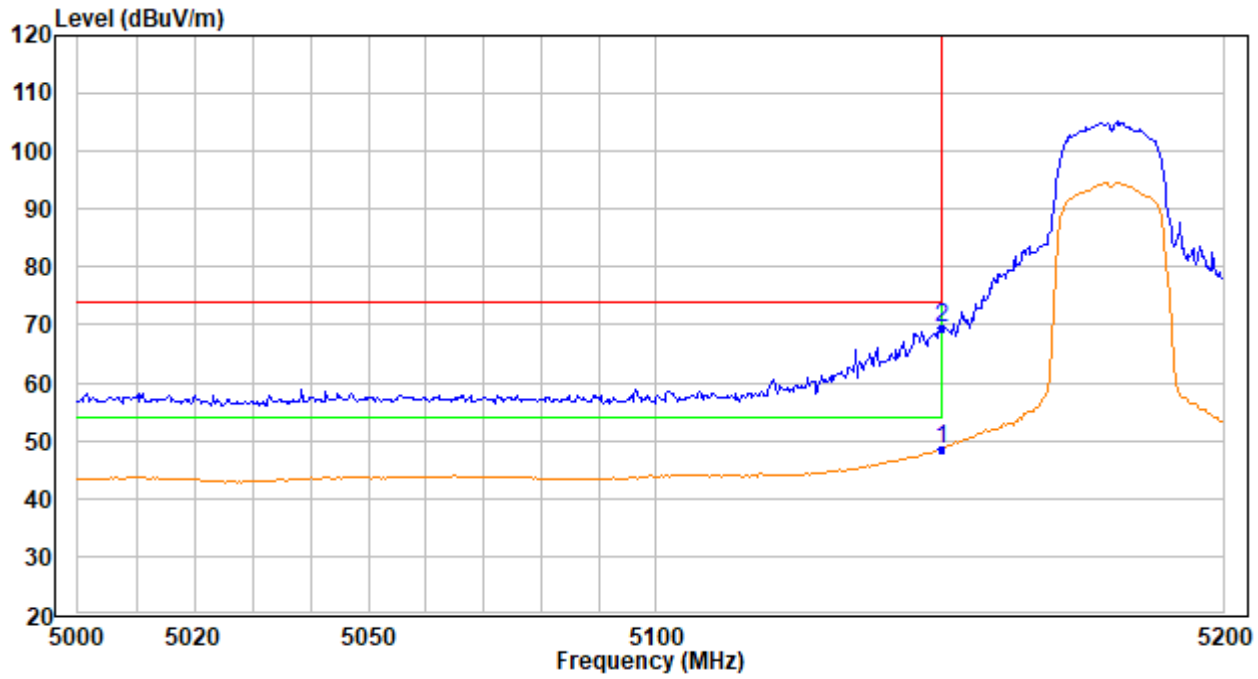
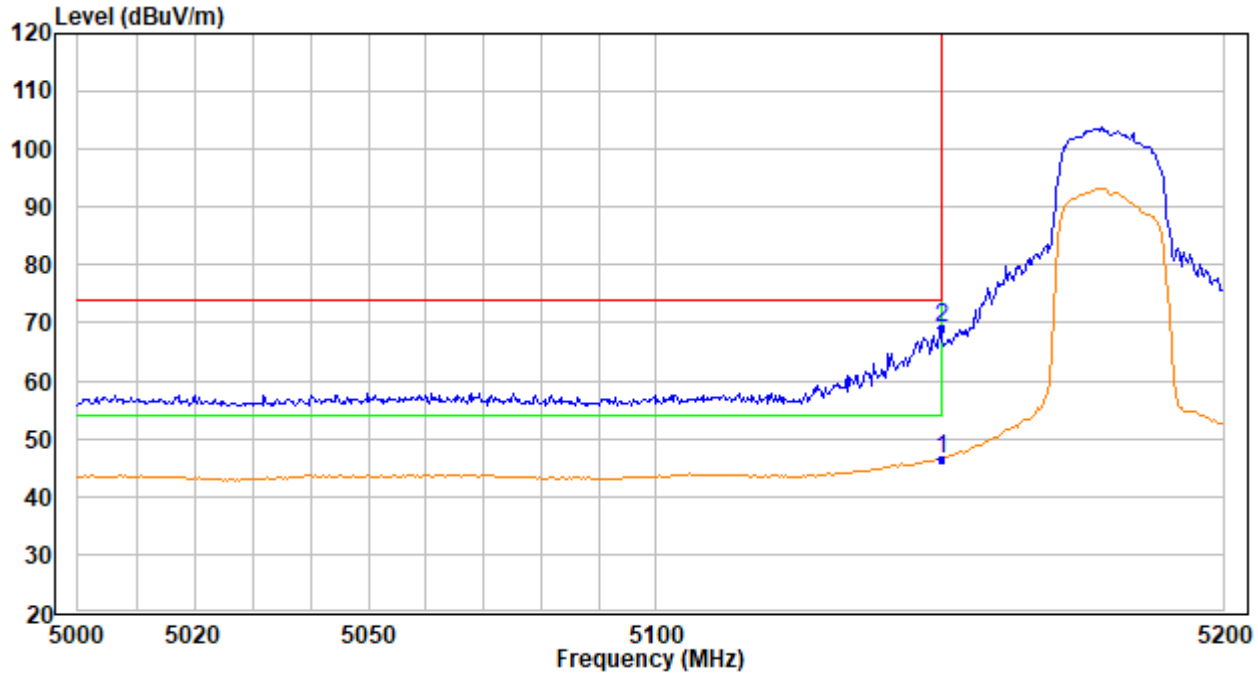
Test Channel:	Channel 36	Ant. Polar. :	Horizontal



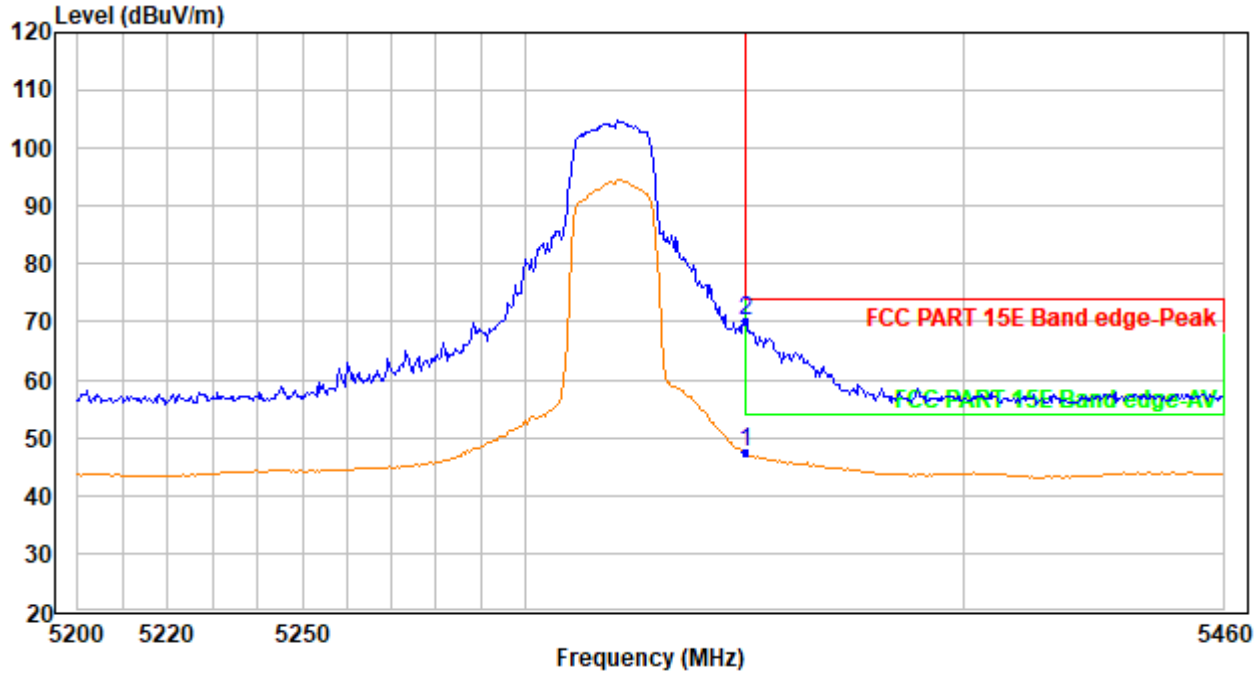
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	69.58	74.00	48.50	54.00	Pass

Test Channel:	Channel 36	Ant. Polar. :	Vertical



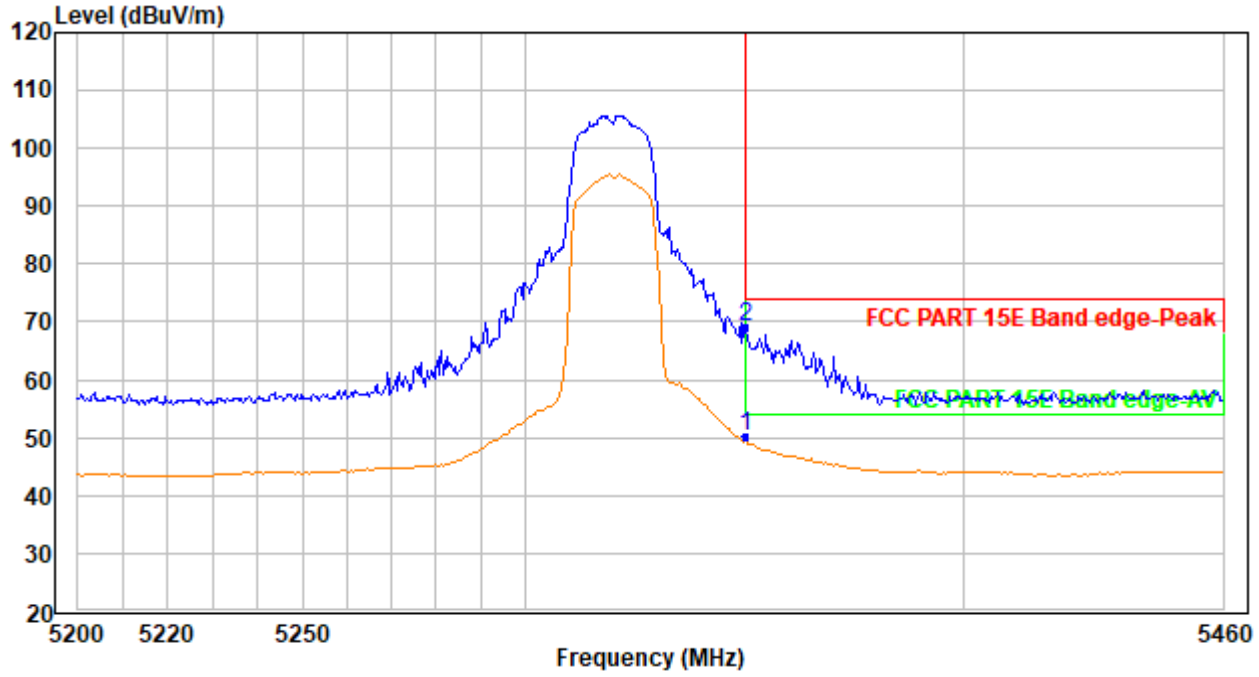
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	69.03	74.00	46.56	54.00	Pass

Test Channel:	Channel 64	Ant. Polar. :	Horizontal



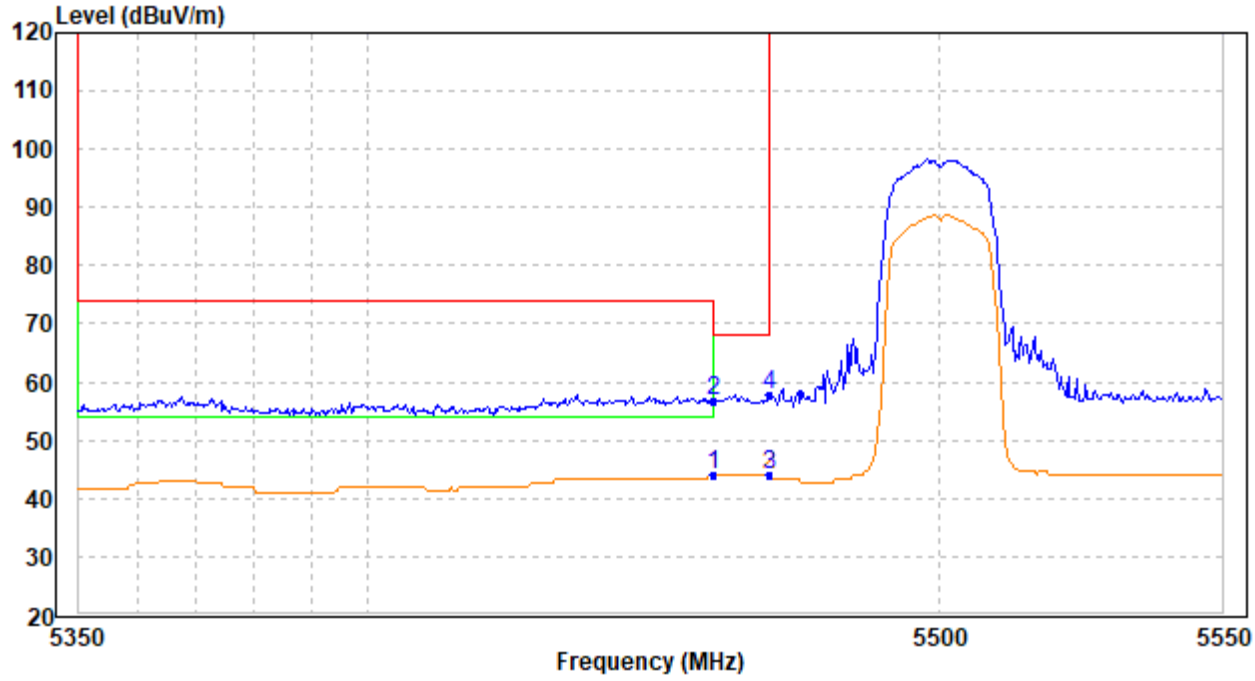
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5350.000	70.00	74.00	47.35	54.00	Pass

Test Channel:	Channel 64	Ant. Polar. :	Vertical



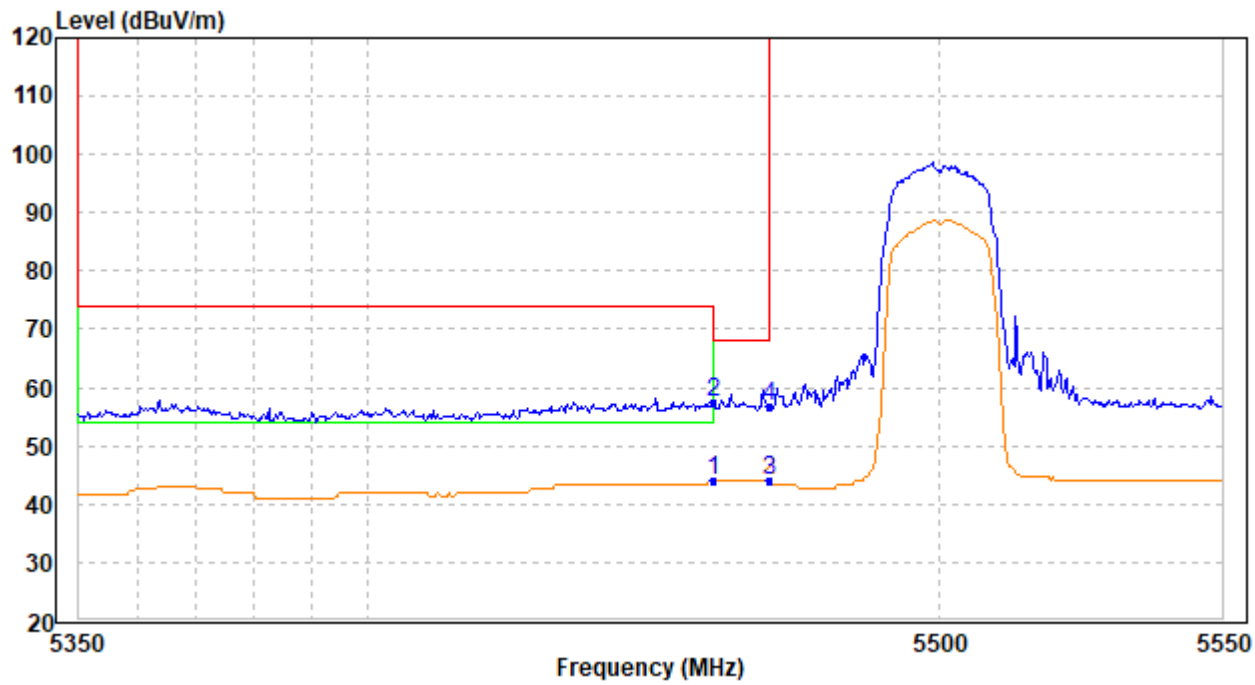
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5350.000	68.97	74.00	50.09	54.00	Pass

Test Channel:	Channel 100	Ant. Polar. :	Horizontal



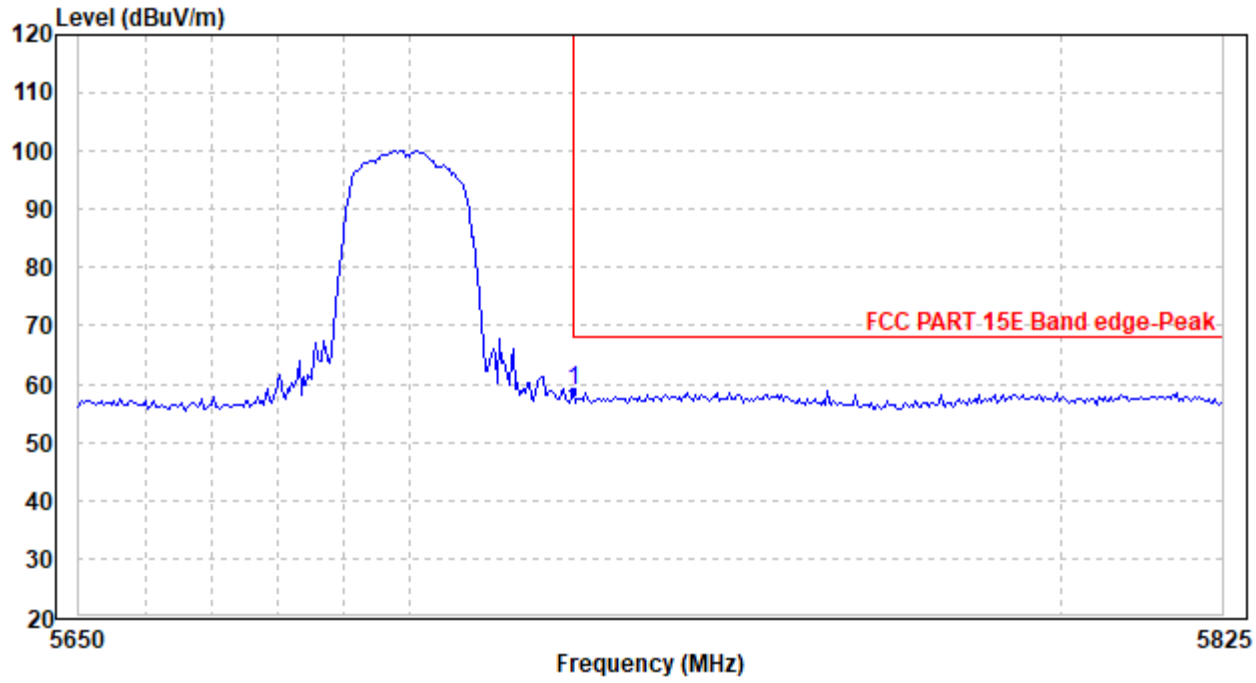
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	56.77	68.20	43.97	54.00	Pass
5470.000	57.75	68.20	43.99	68.20	Pass

Test Channel:	Channel 100	Ant. Polar. :	Vertical



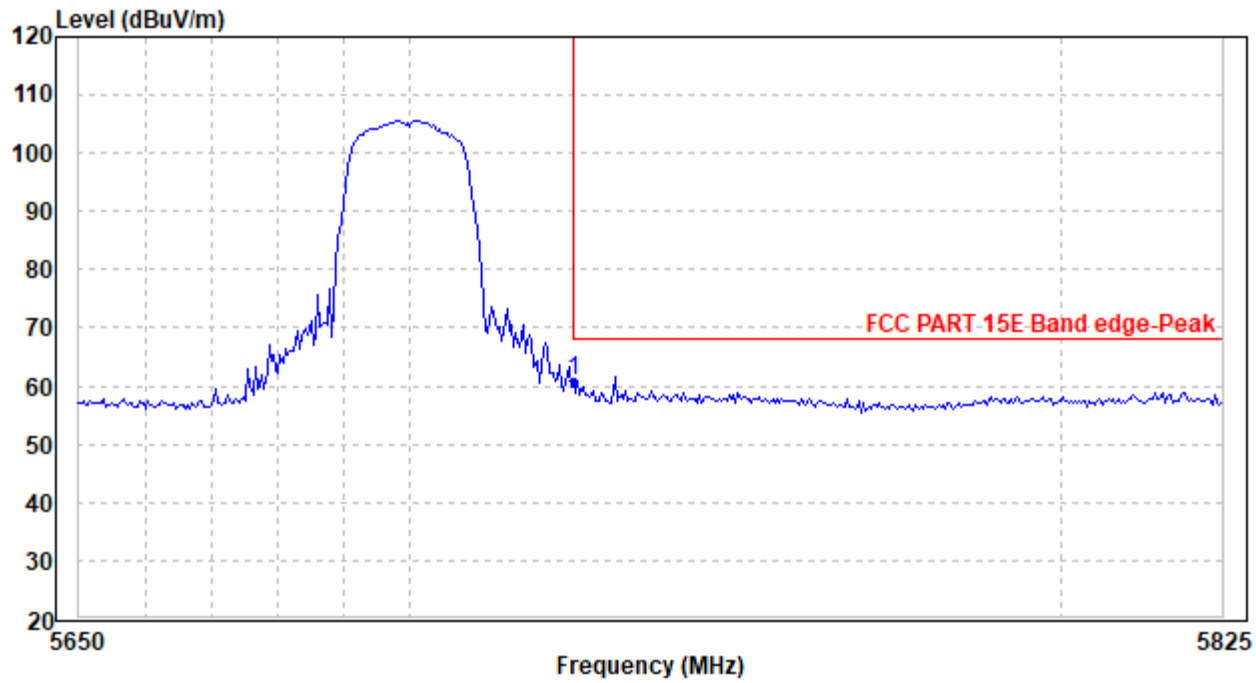
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	57.50	68.20	43.97	54.00	Pass
5470.000	56.73	68.20	43.99	68.20	Pass

Test Channel:	Channel 140	Ant. Polar. :	Horizontal



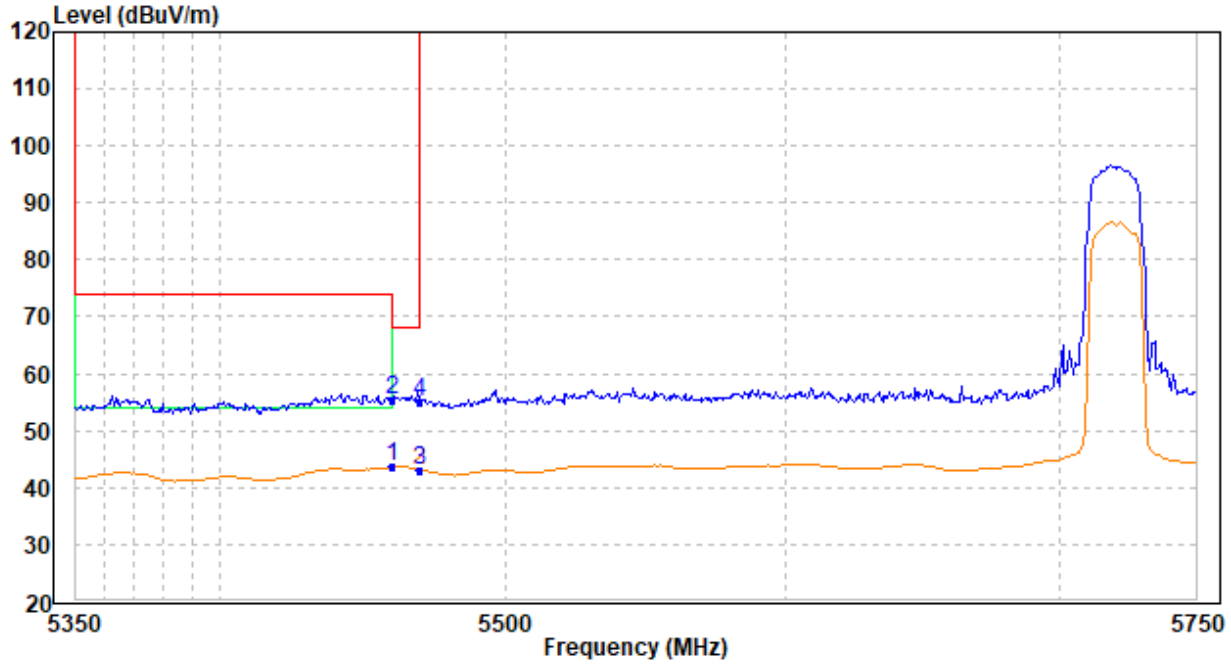
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	58.69	68.20	Pass

Test Channel:	Channel 140	Ant. Polar. :	Vertical



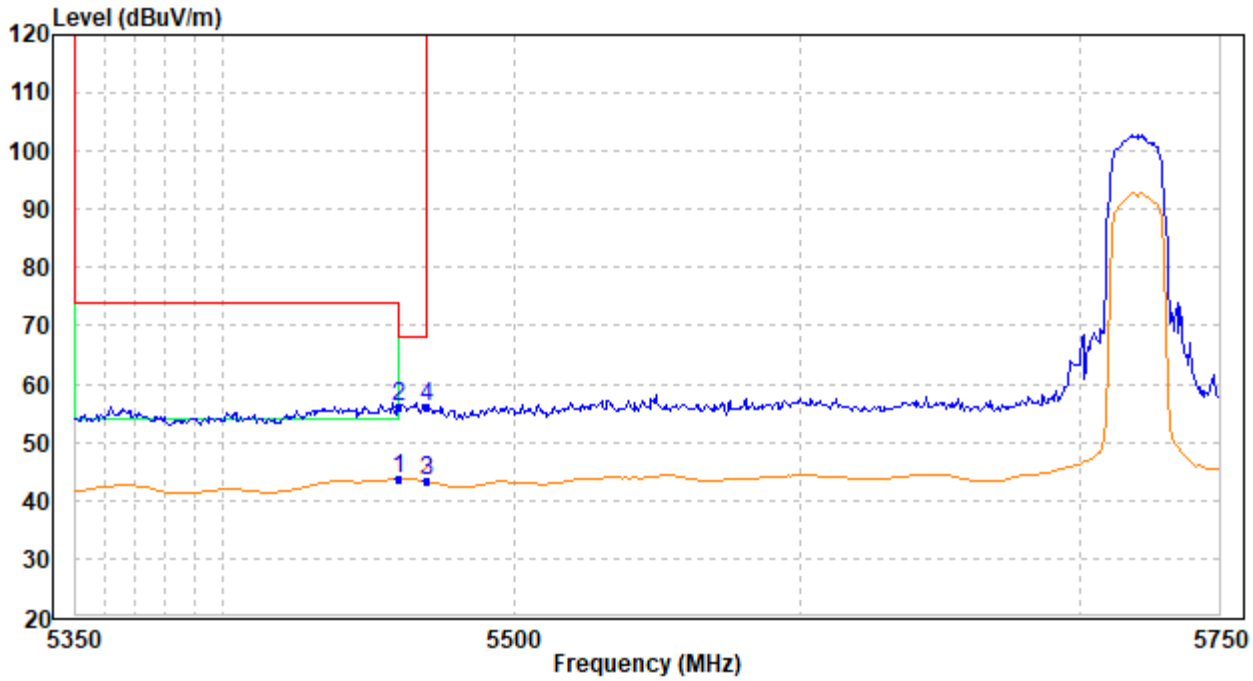
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	60.93	68.20	Pass

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Horizontal



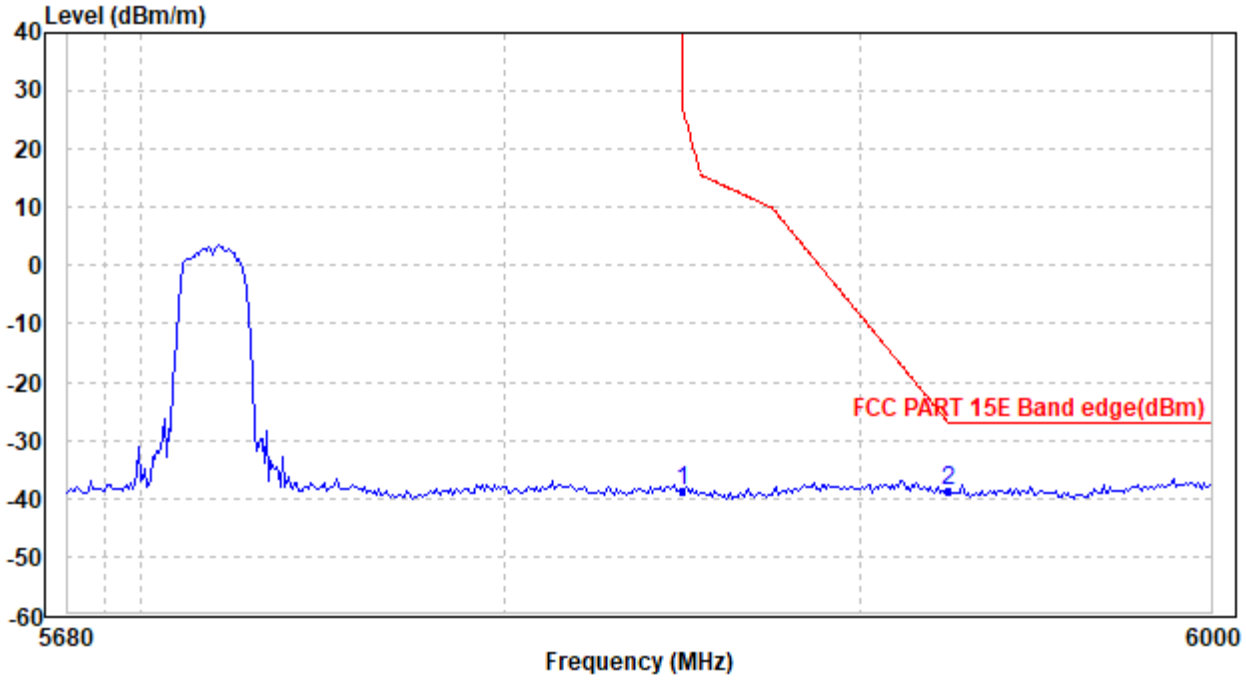
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	55.39	68.20	43.55	54.00	PASS
5470.000	55.11	68.20	43.02	68.20	PASS

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Vertical



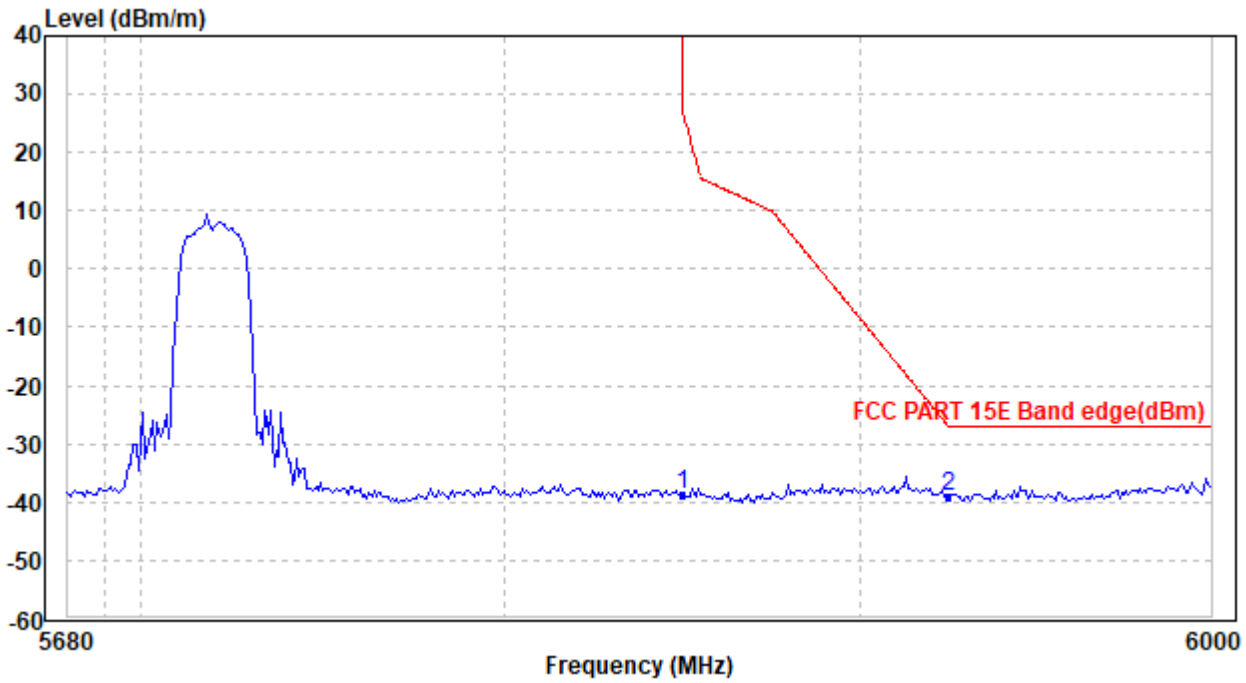
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	56.00	68.20	43.55	54.00	PASS
5470.000	56.00	68.20	43.30	68.20	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Horizontal



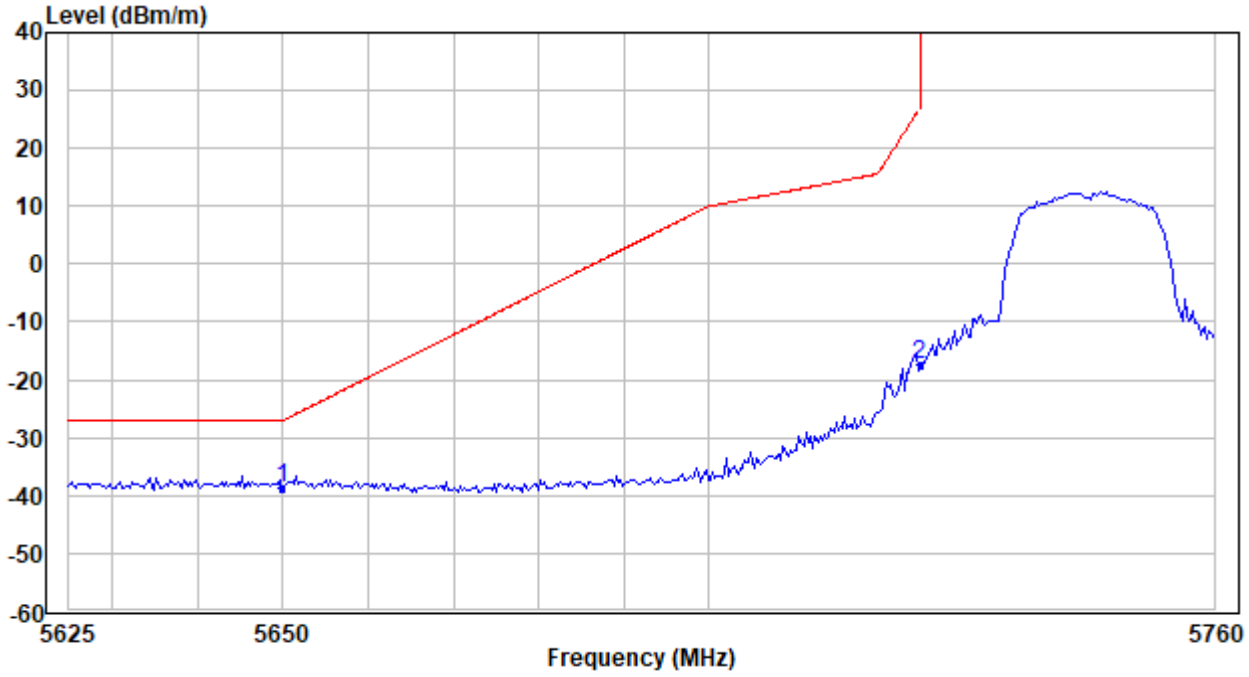
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-38.72	27.00	PASS
5925.000	-38.73	-27.00	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Vertical



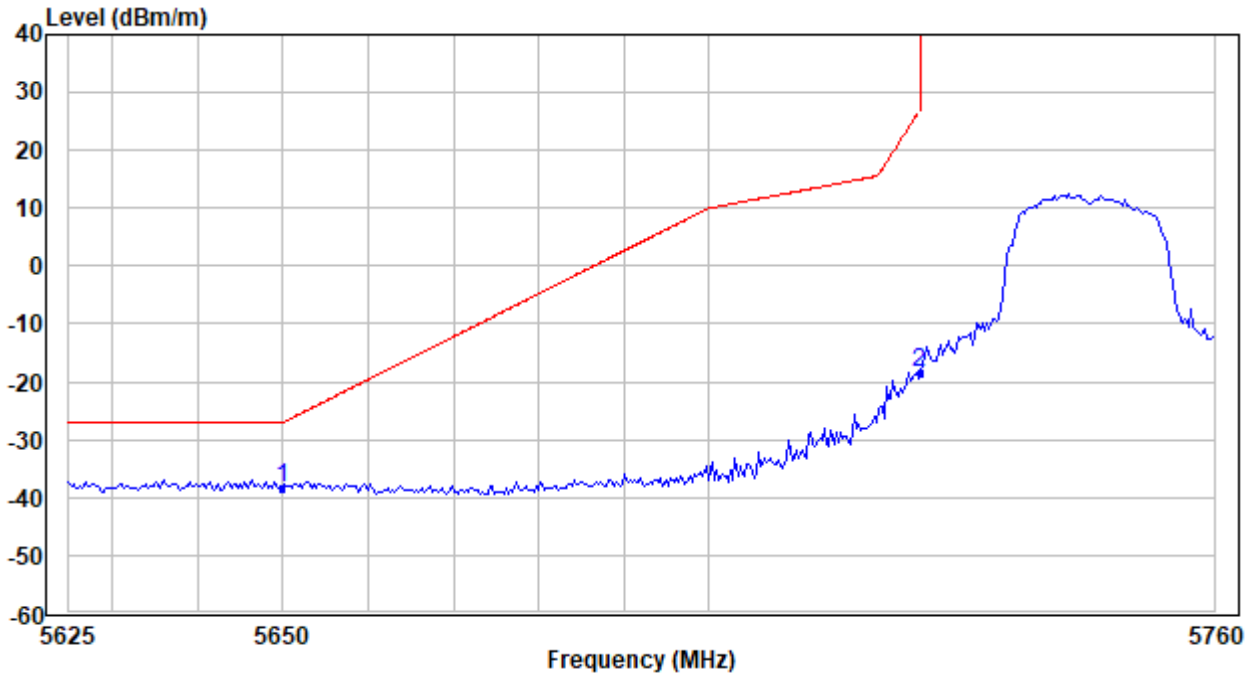
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-38.57	27.00	PASS
5925.000	-38.98	-27.00	PASS

Test Channel:	Channel 149	Ant. Polar. :	Horizontal



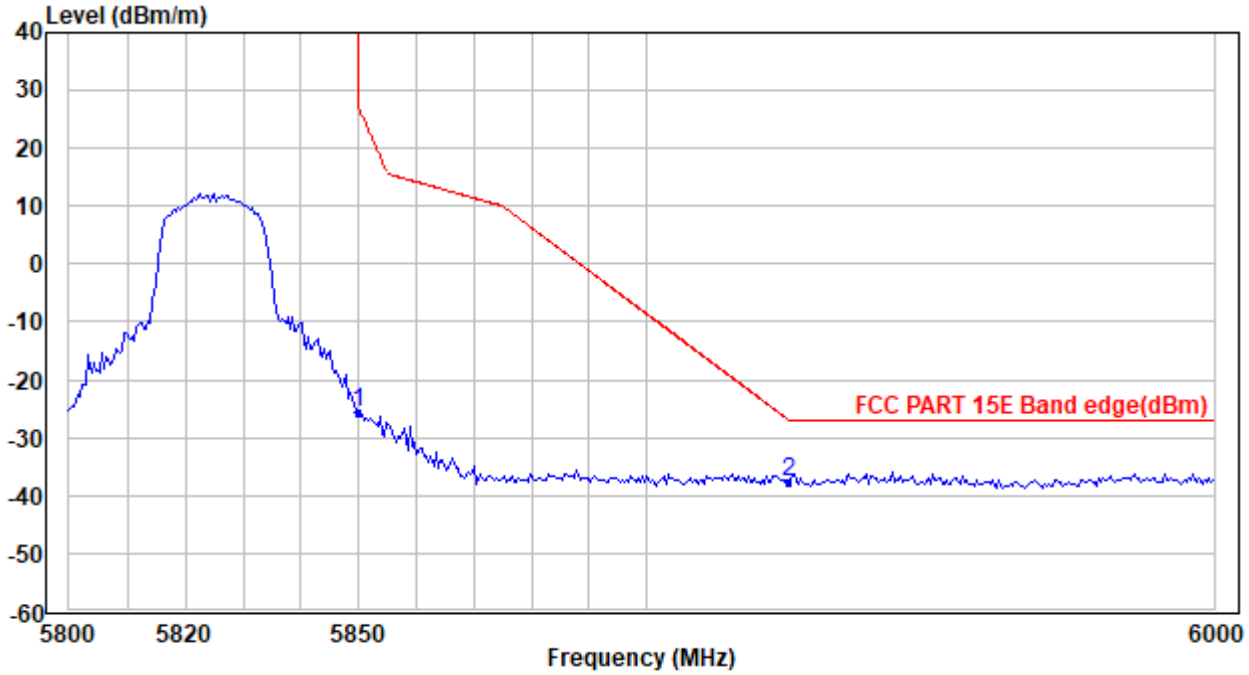
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-38.75	-27.00	Pass
5725.000	-17.52	27.00	Pass

Test Channel:	Channel 149	Ant. Polar. :	Vertical



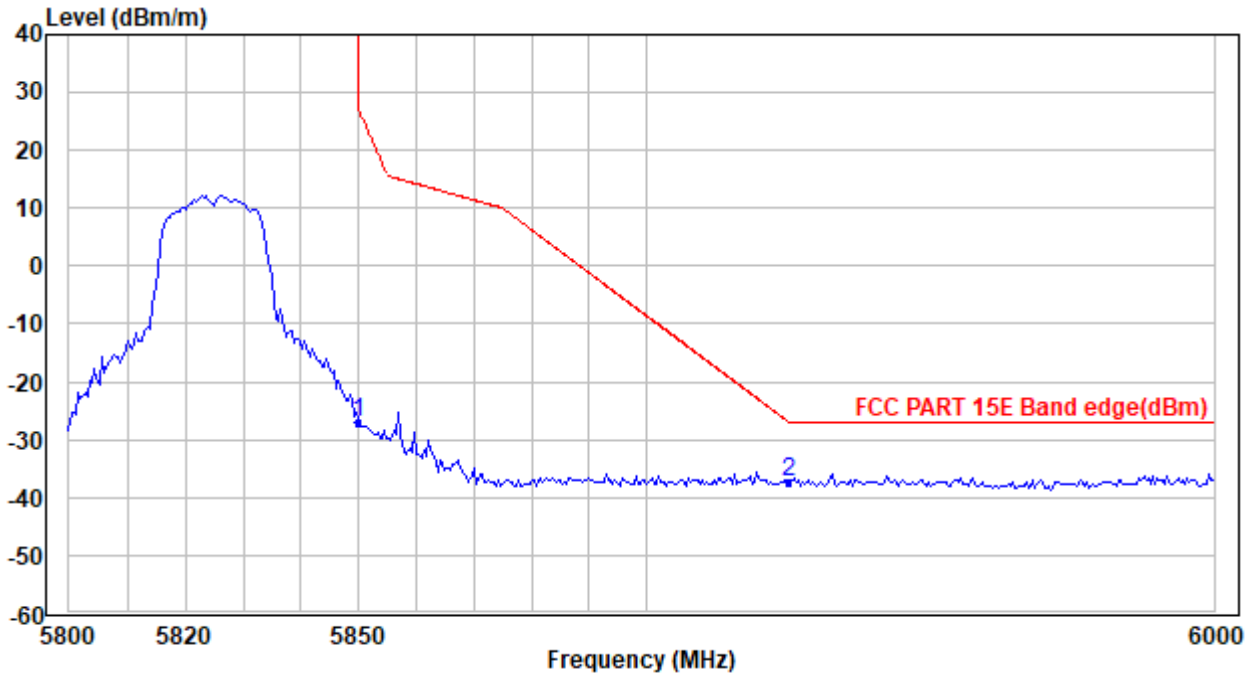
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-38.44	-27.00	Pass
5725.000	-18.31	27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-25.75	27.00	Pass
5925.000	-37.55	-27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-27.04	27.00	Pass
5925.000	-37.24	-27.00	Pass

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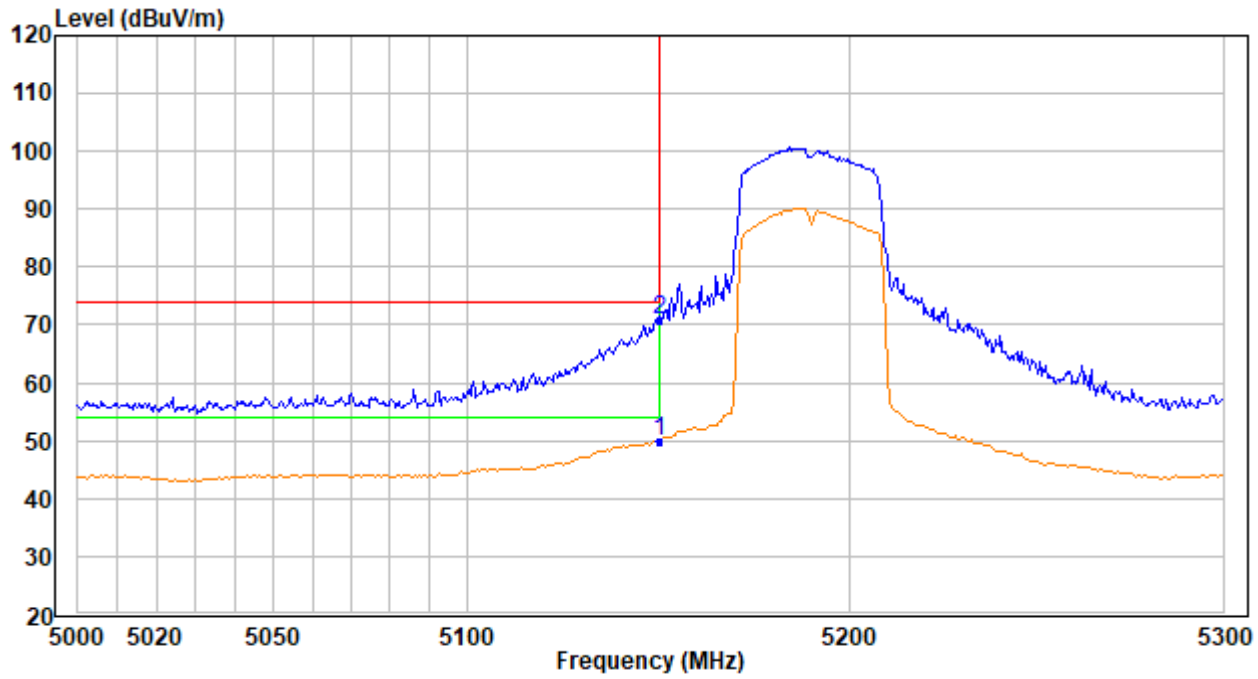
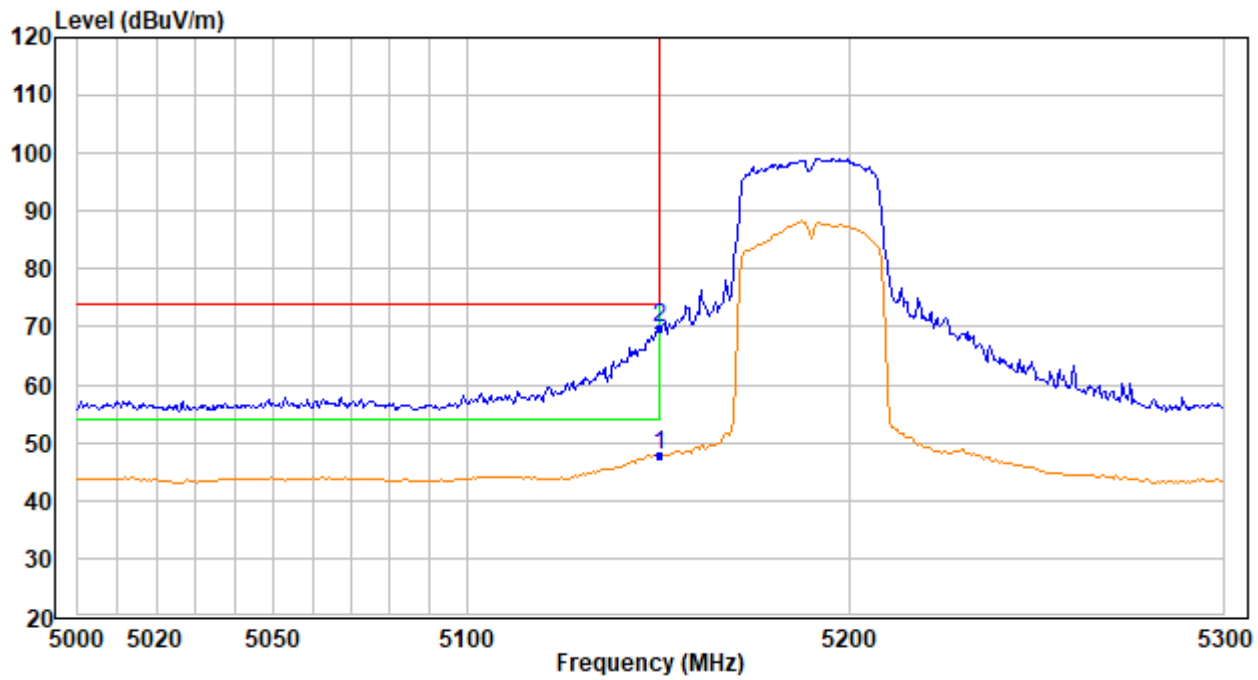
Test Channel:	Channel 38	Ant. Polar. :	Horizontal



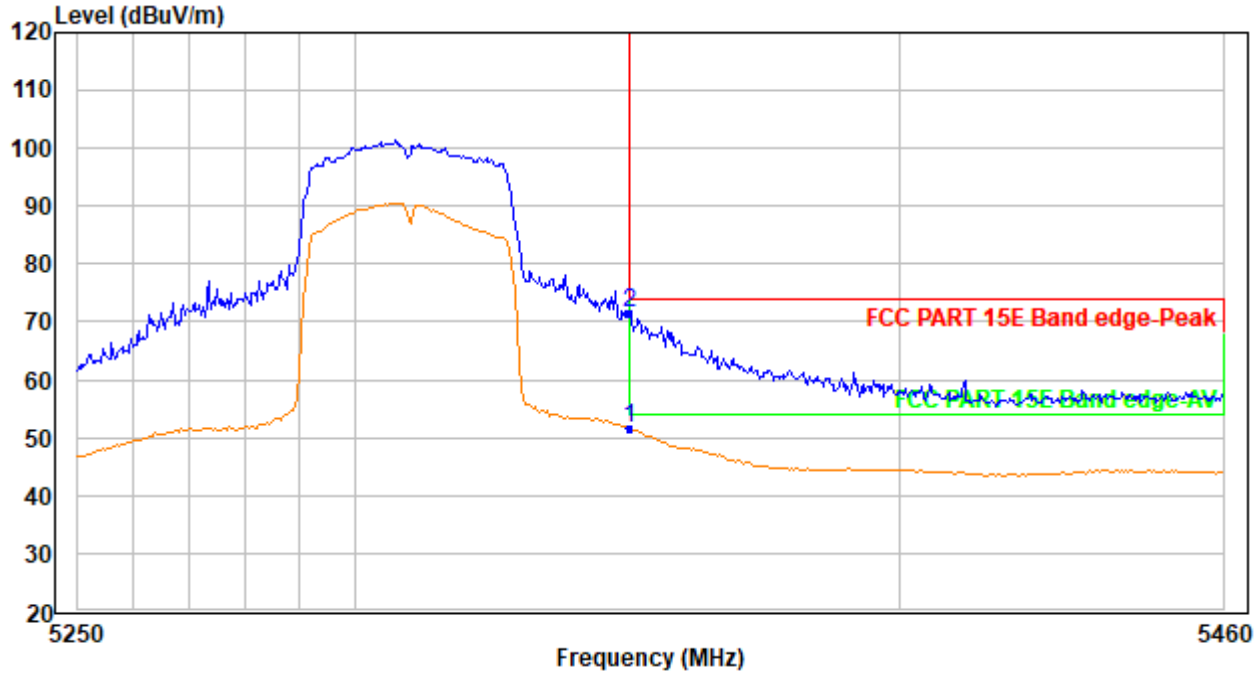
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	70.95	74.00	49.85	54.00	Pass

Test Channel:	Channel 38	Ant. Polar. :	Vertical



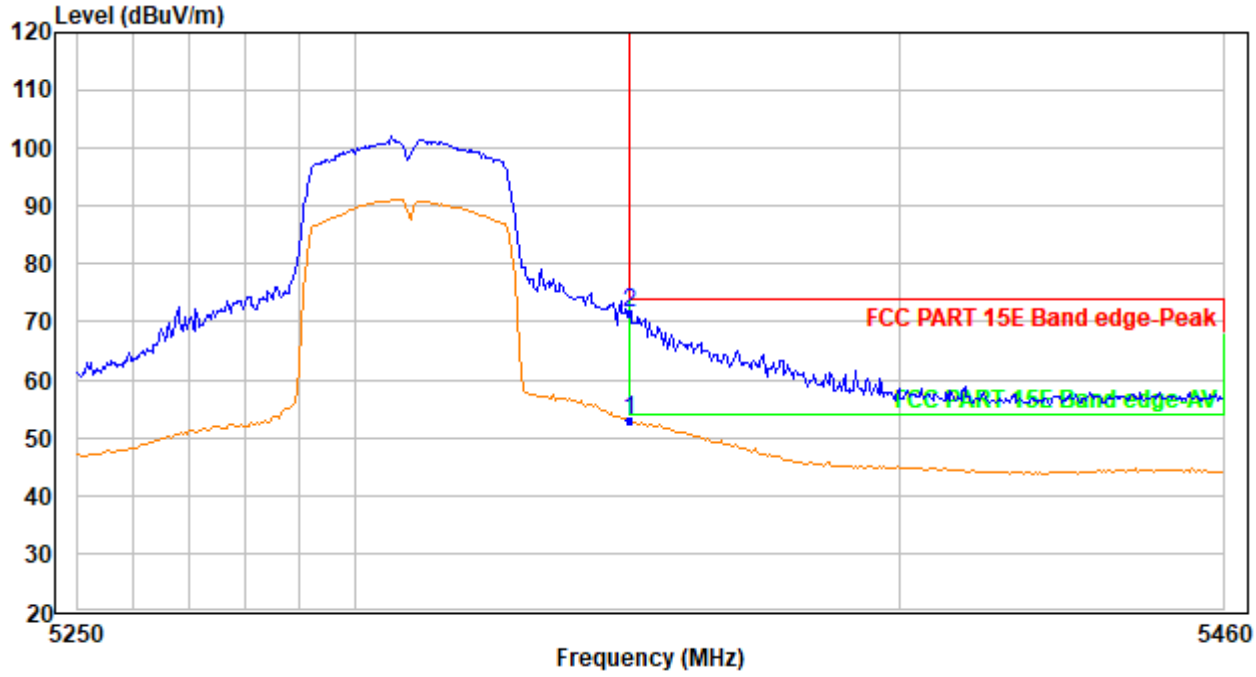
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	69.86	74.00	47.99	54.00	Pass

Test Channel:	Channel 62	Ant. Polar. :	Horizontal



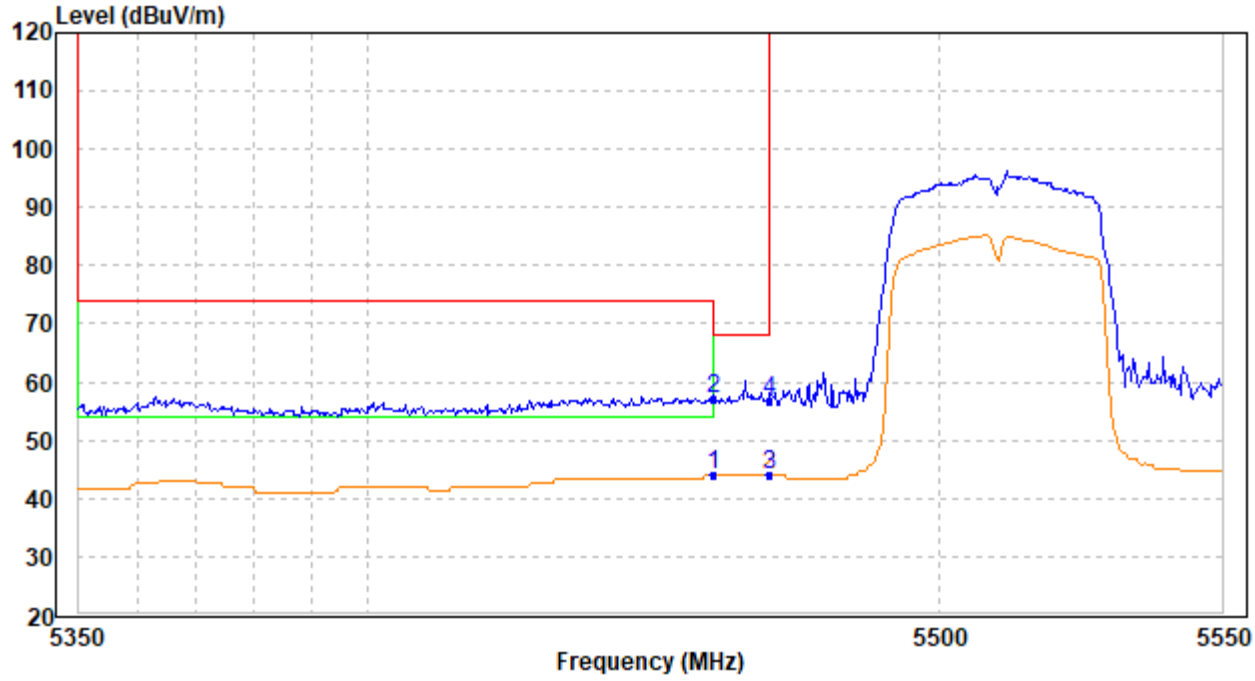
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5350.000	71.50	74.00	51.52	54.00	Pass

Test Channel:	Channel 62	Ant. Polar. :	Vertical



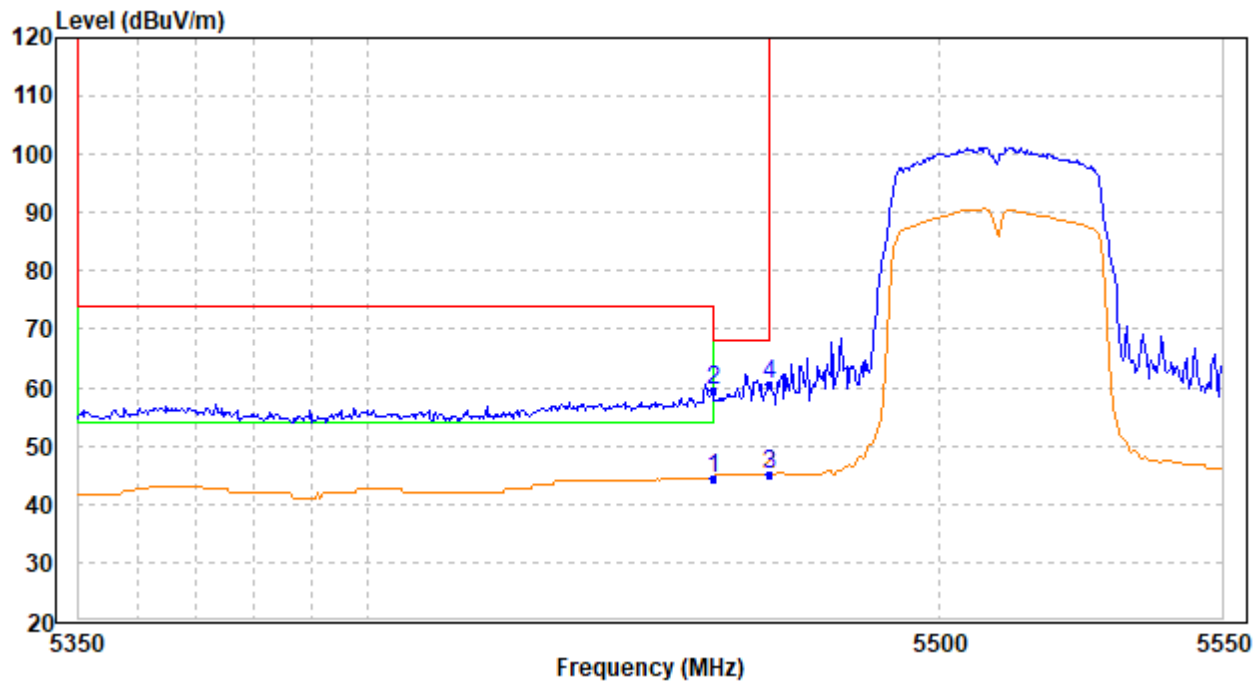
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5350.000	71.45	74.00	53.12	54.00	Pass

Test Channel:	Channel 102	Ant. Polar. :	Horizontal



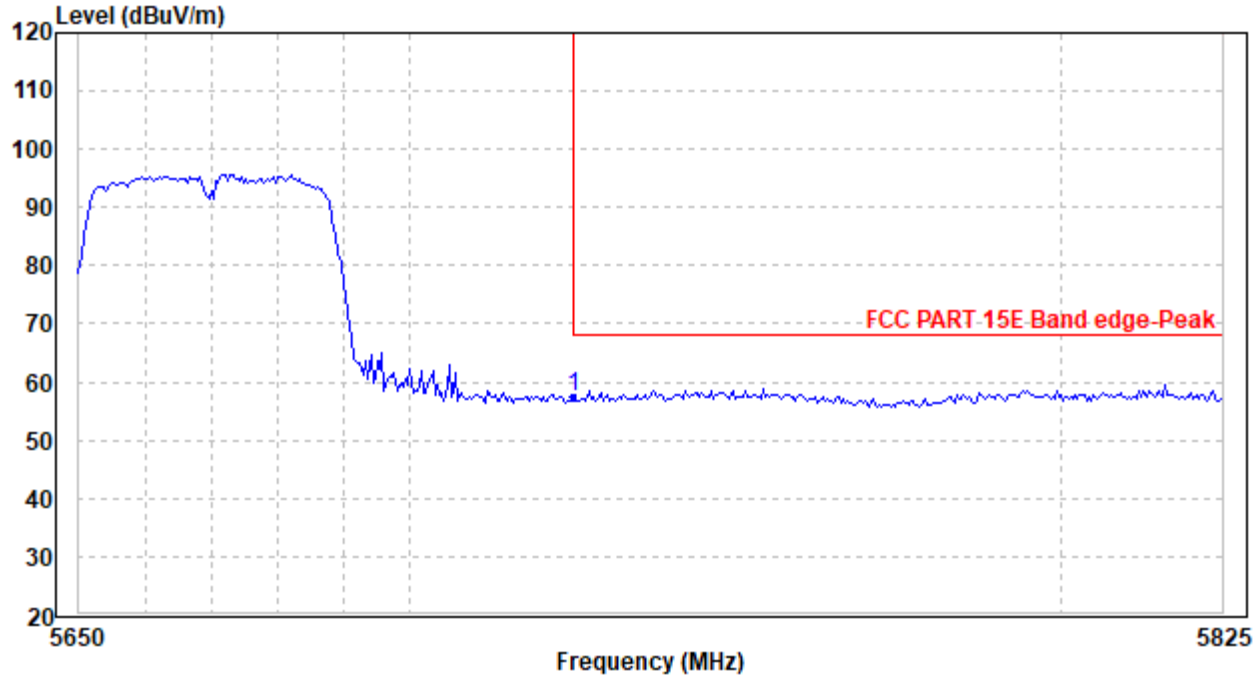
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	57.15	68.20	43.97	54.00	Pass
5470.000	56.73	68.20	43.99	68.20	Pass

Test Channel:	Channel 102	Ant. Polar. :	Vertical



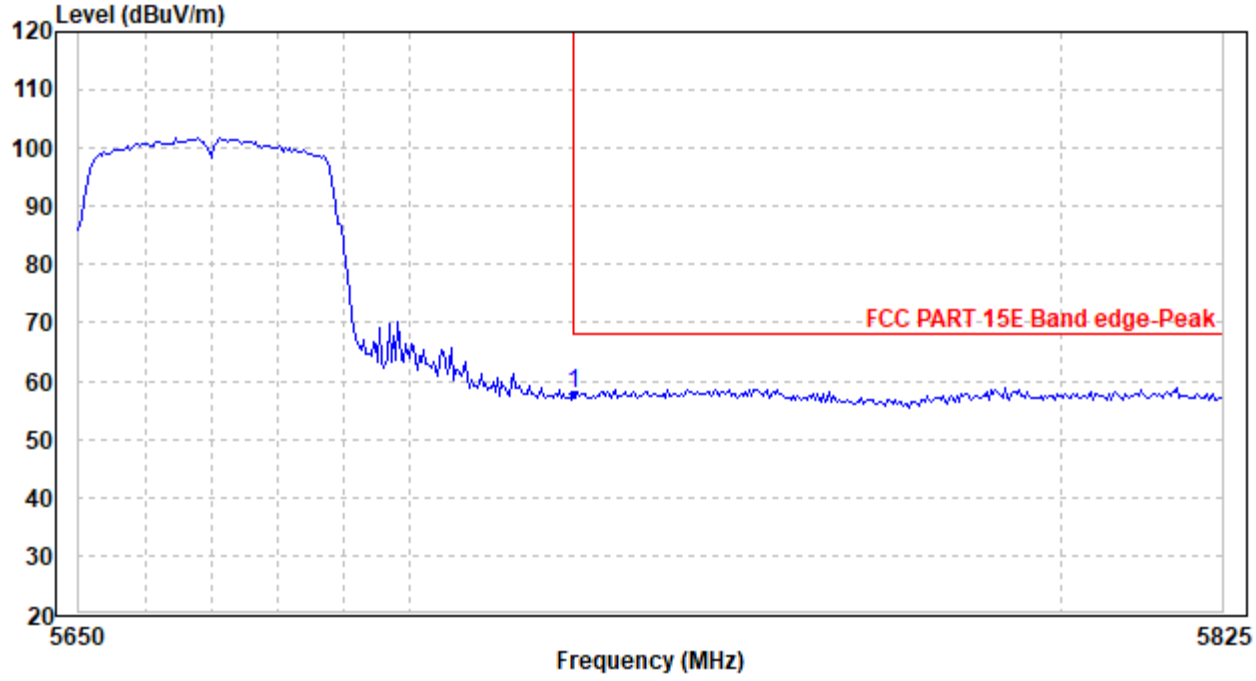
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	59.43	68.20	44.53	54.00	Pass
5470.000	60.46	68.20	45.08	68.20	Pass

Test Channel:	Channel 134	Ant. Polar. :	Horizontal



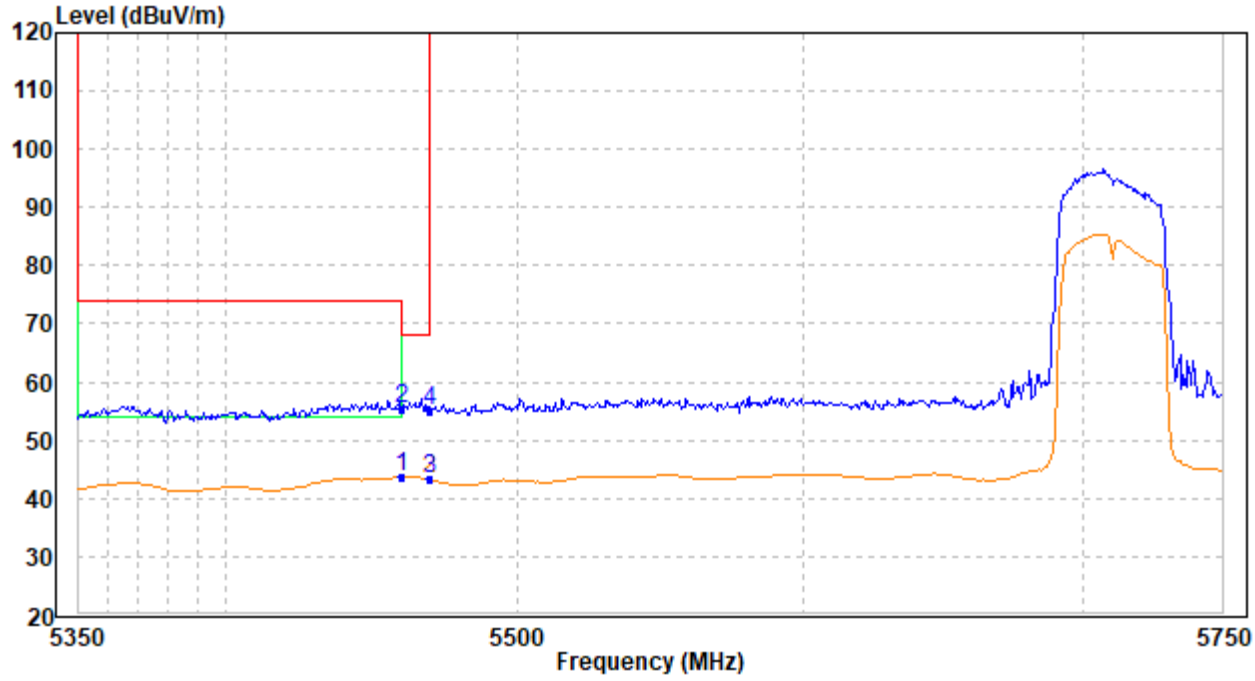
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	57.56	68.20	Pass

Test Channel:	Channel 134	Ant. Polar. :	Vertical



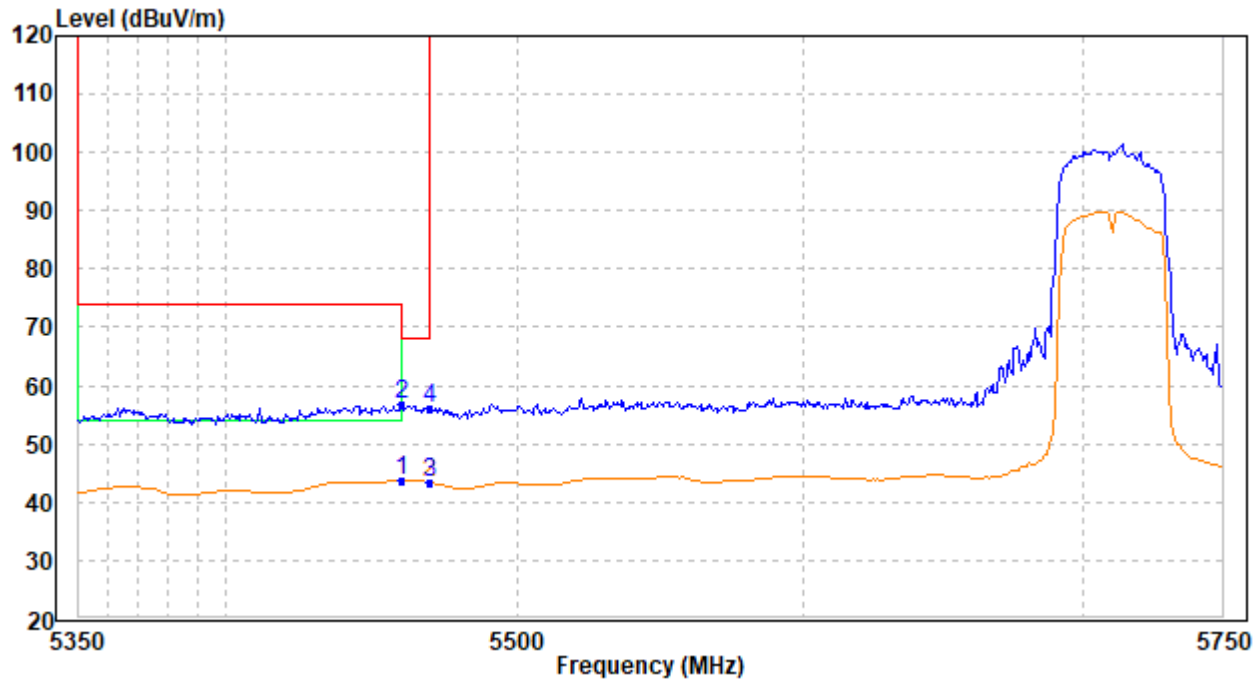
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	57.70	68.20	Pass

Test Channel:	Channel 142_U-NII-2C	Ant. Polar. :	Horizontal



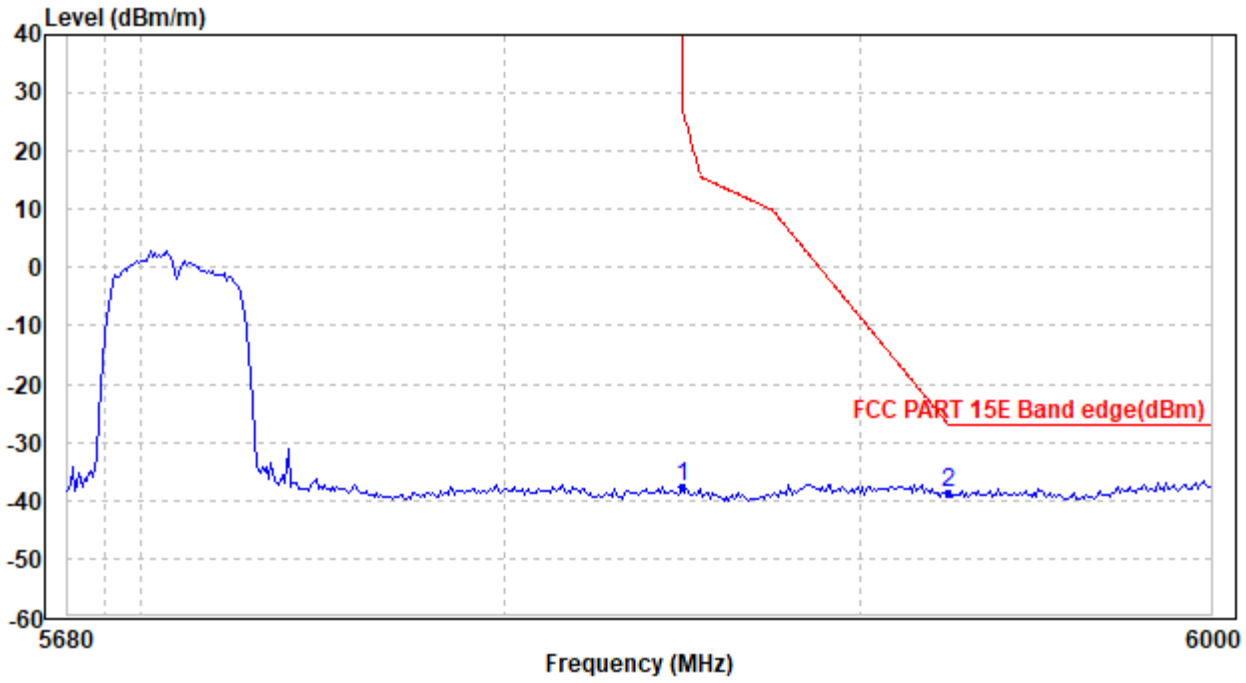
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	55.51	68.20	43.55	54.00	PASS
5470.000	55.15	68.20	43.30	68.20	PASS

Test Channel:	Channel 142_U-NII-2C	Ant. Polar. :	Vertical



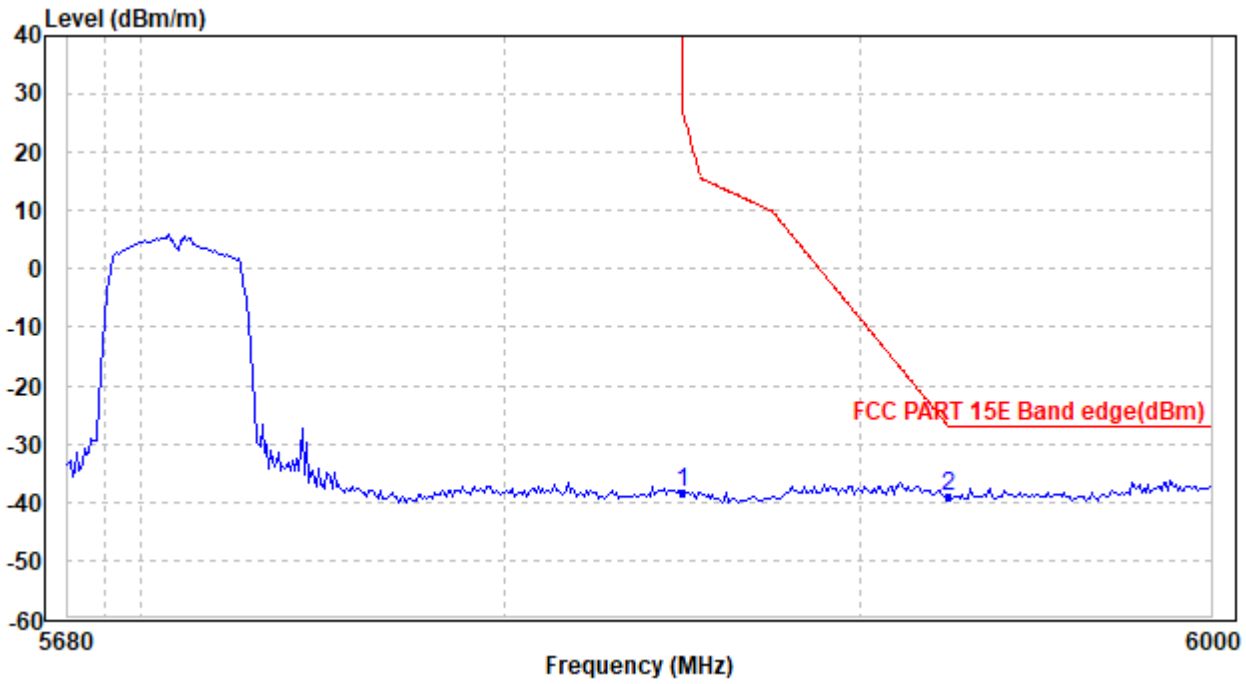
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	56.70	68.20	43.55	54.00	PASS
5470.000	56.25	68.20	43.30	68.20	PASS

Test Channel:	Channel 142_U-NII-3	Ant. Polar. :	Horizontal



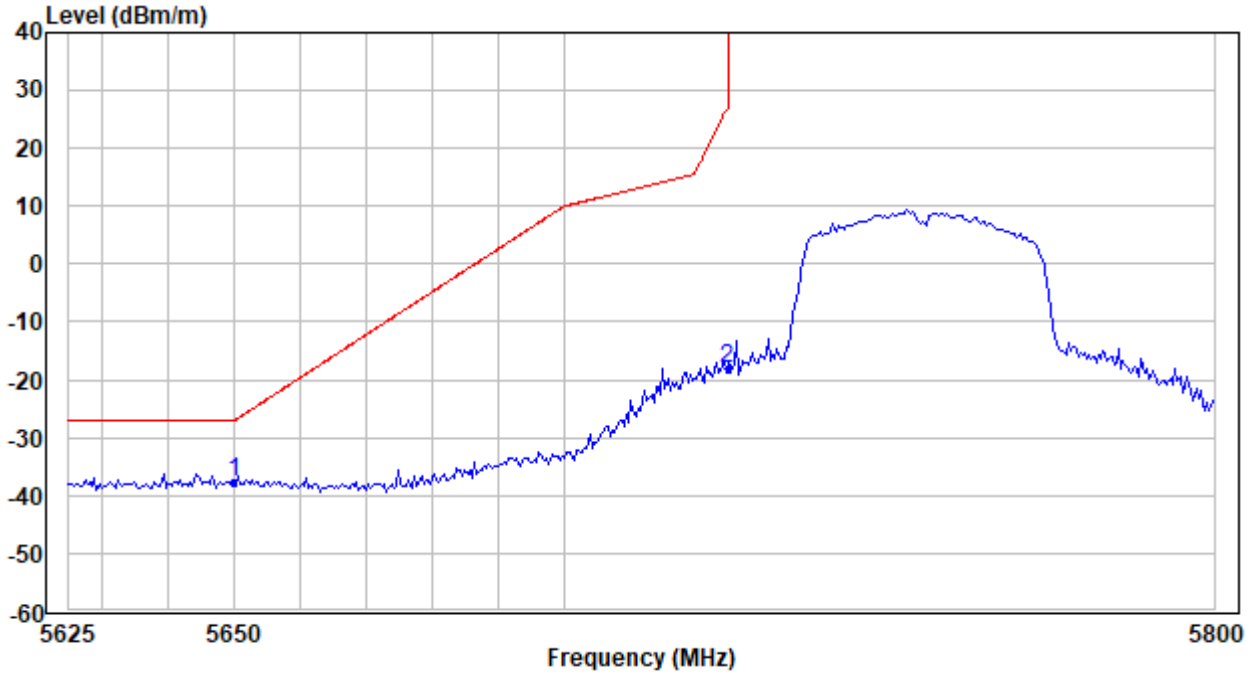
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-37.55	27.00	PASS
5925.000	-38.78	-27.00	PASS

Test Channel:	Channel 142_U-NII-3	Ant. Polar. :	Vertical



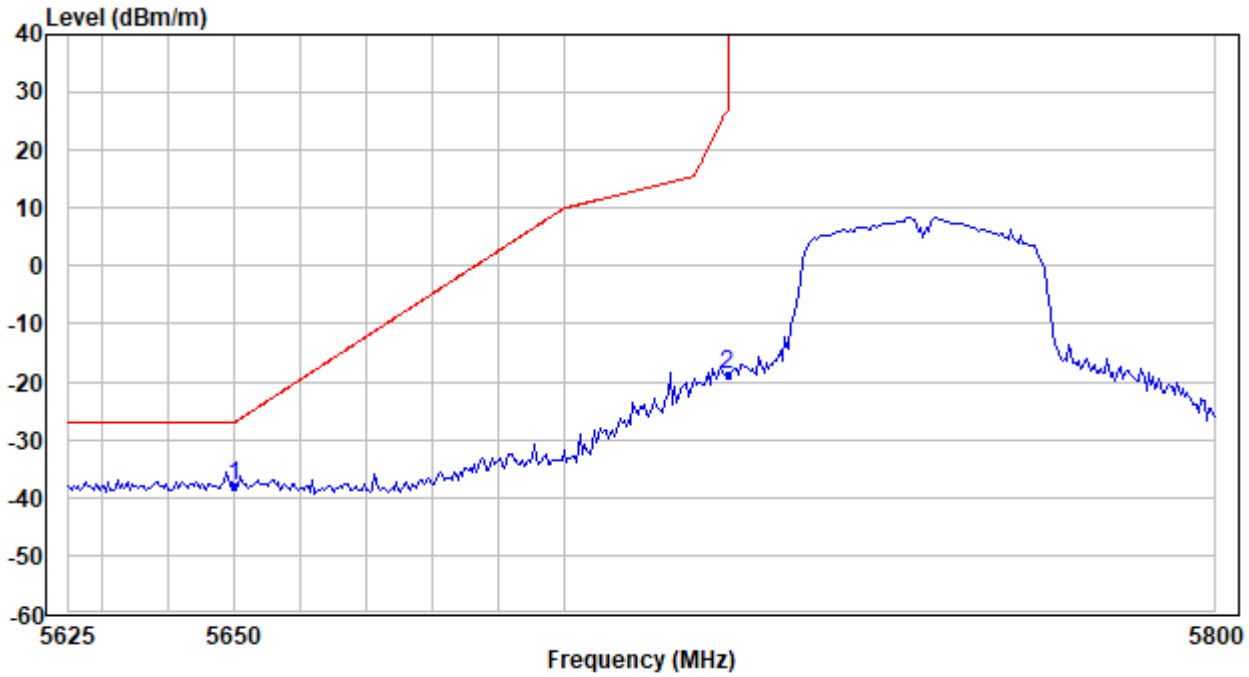
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-38.46	27.00	PASS
5925.000	-39.10	-27.00	PASS

Test Channel:	Channel 151	Ant. Polar. :	Horizontal



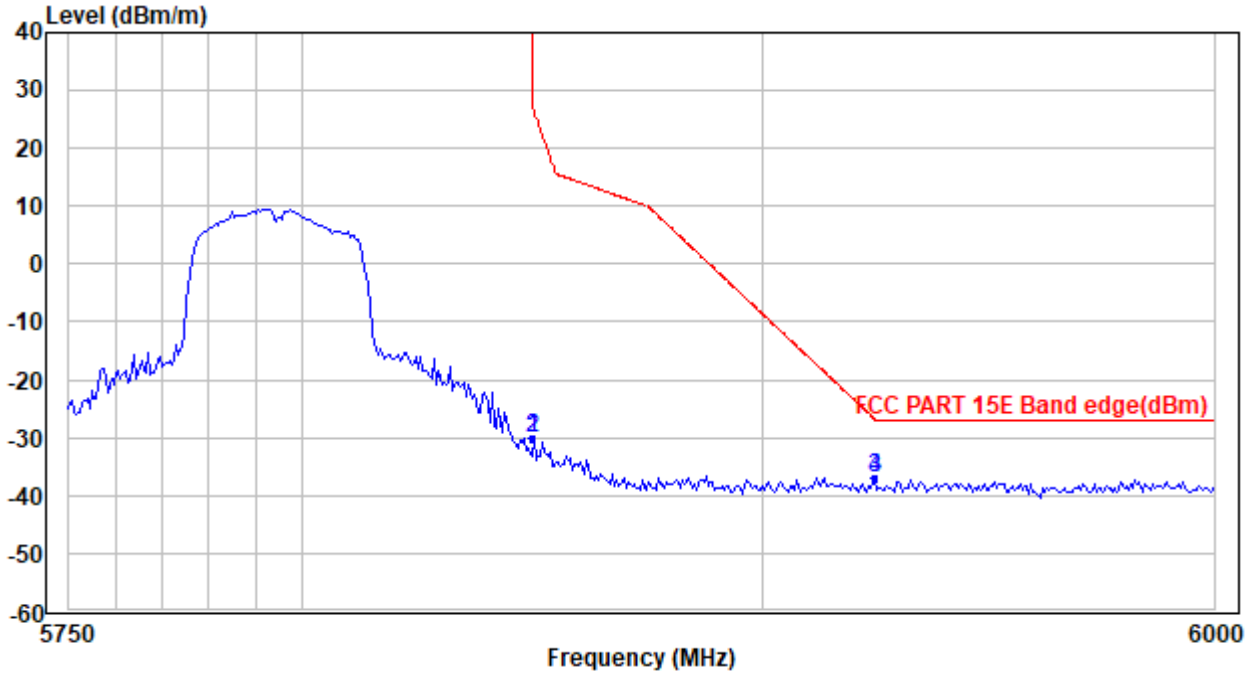
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-37.73	-27.00	Pass
5725.000	-18.24	27.00	Pass

Test Channel:	Channel 151	Ant. Polar. :	Vertical



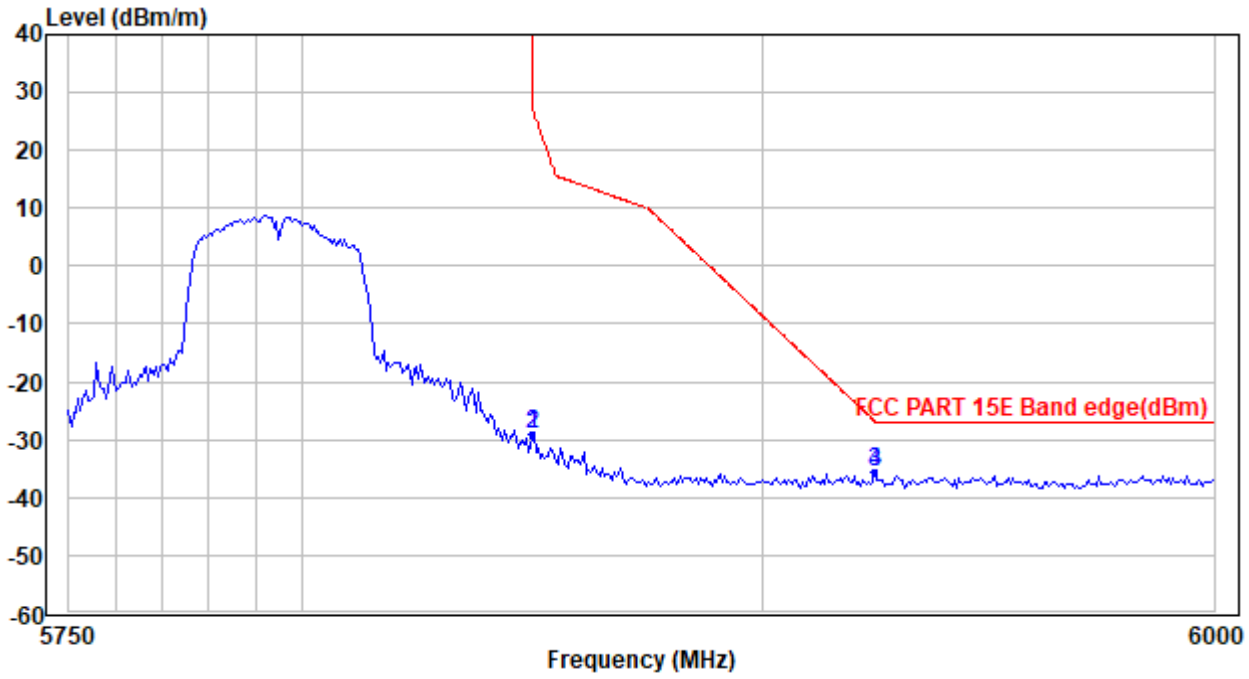
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-37.86	-27.00	Pass
5725.000	-18.89	27.00	Pass

Test Channel:	Channel 159	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-30.03	27.00	Pass
5925.000	-36.85	-27.00	Pass

Test Channel:	Channel 159	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-28.96	27.00	Pass
5925.000	-35.52	-27.00	Pass

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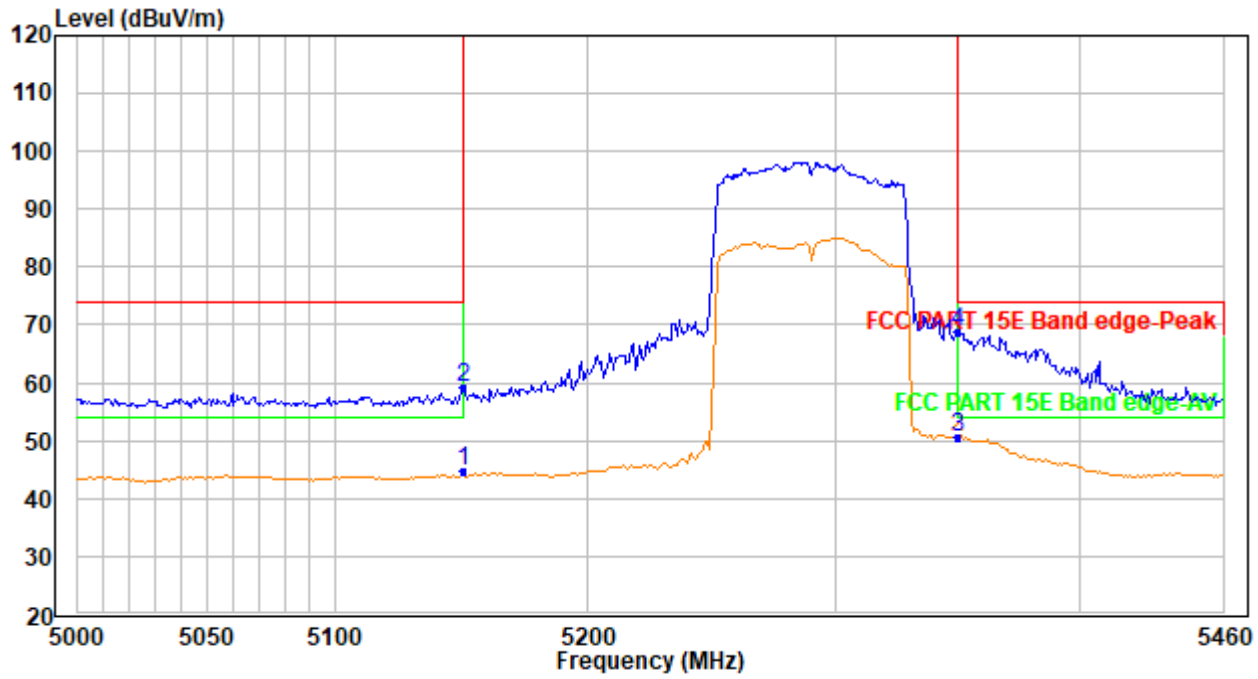
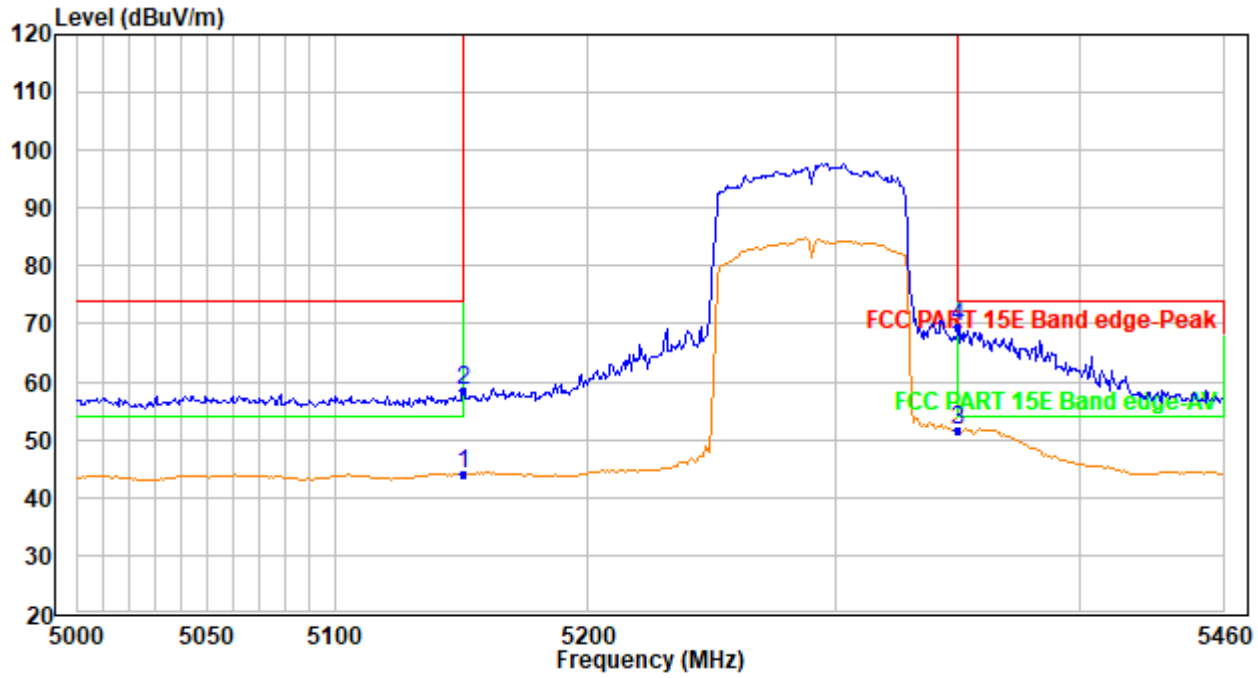
Test Channel:	Channel 42	Ant. Polar. :	Horizontal



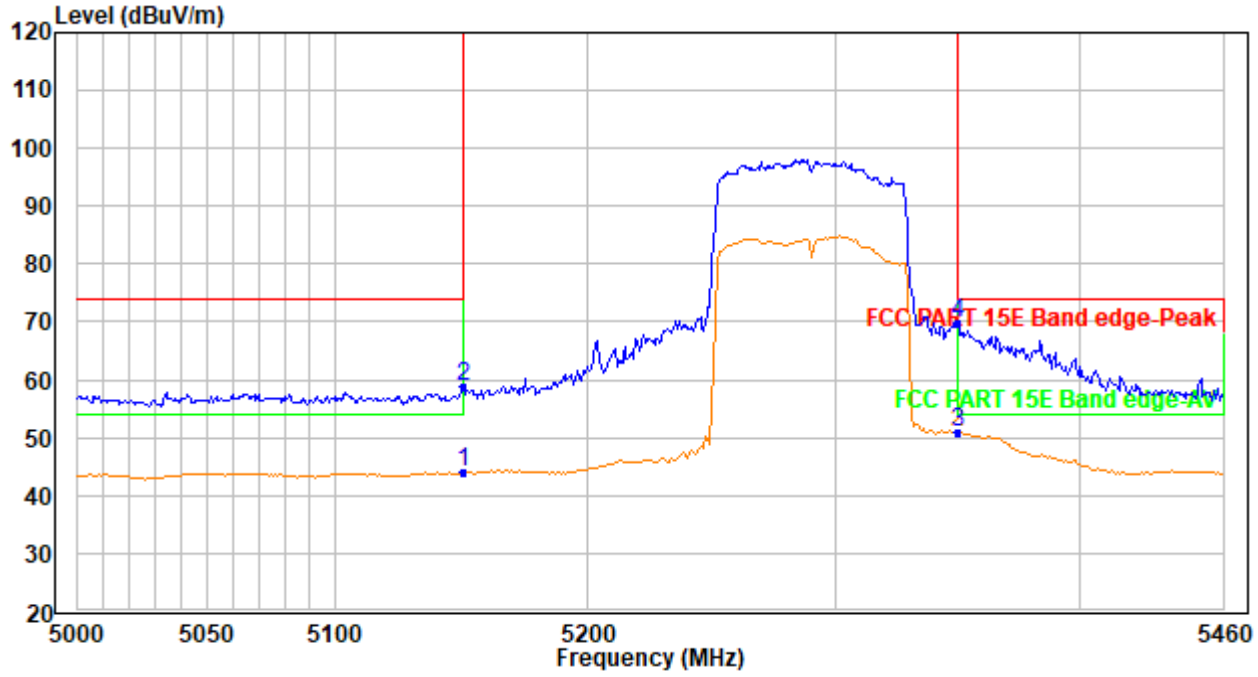
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	59.13	74.00	44.75	54.00	Pass
5350.000	68.79	74.00	50.71	54.00	Pass

Test Channel:	Channel 42	Ant. Polar. :	Vertical



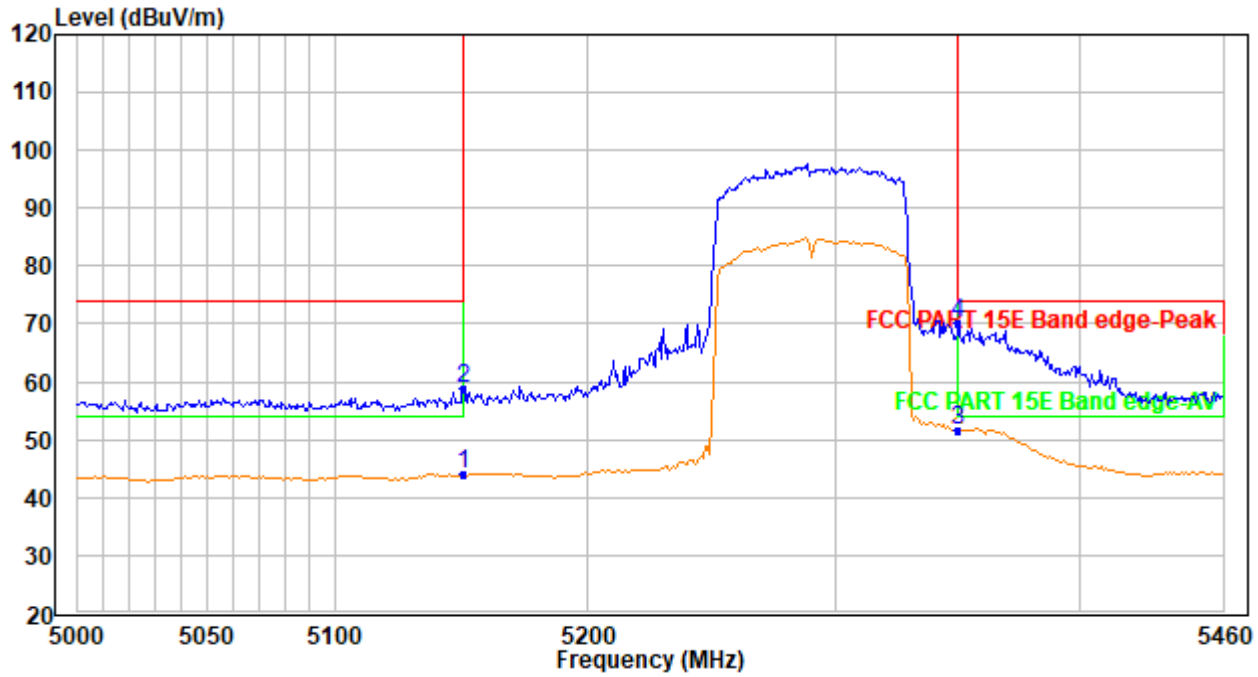
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	58.63	74.00	44.19	54.00	Pass
5350.000	69.62	74.00	51.60	54.00	Pass

Test Channel:	Channel 58	Ant. Polar. :	Horizontal



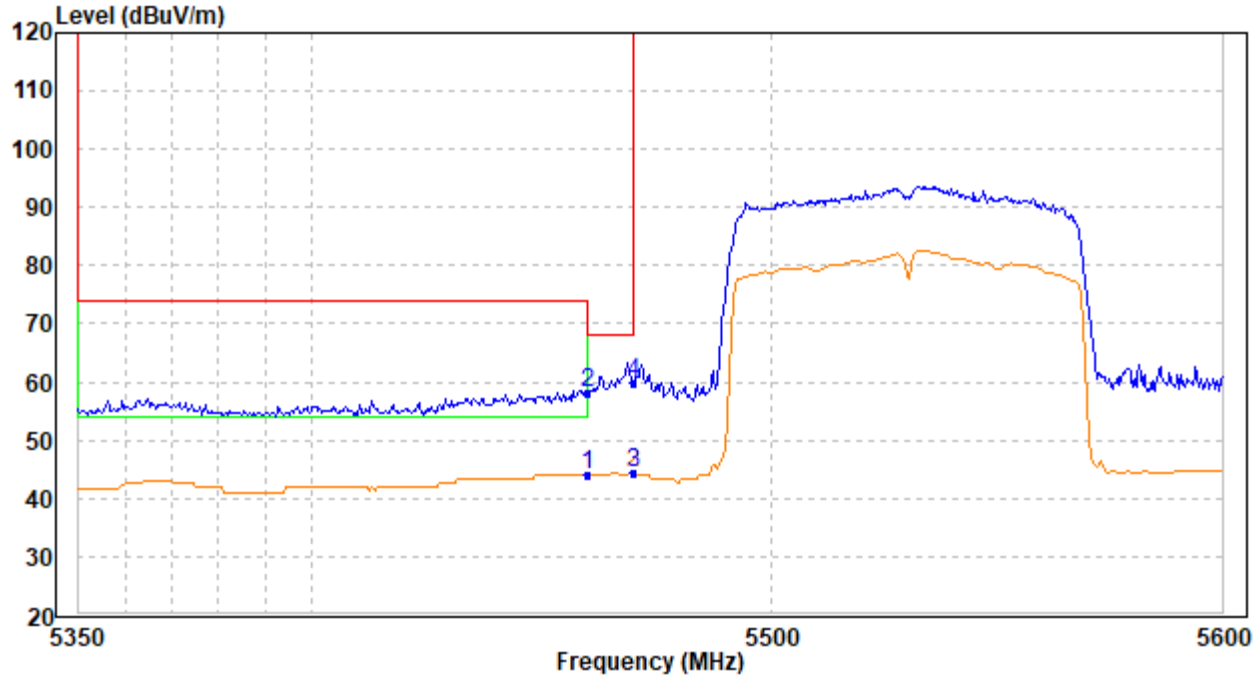
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	58.96	74.00	43.90	54.00	Pass
5350.000	69.87	74.00	51.04	54.00	Pass

Test Channel:	Channel 58	Ant. Polar. :	Vertical



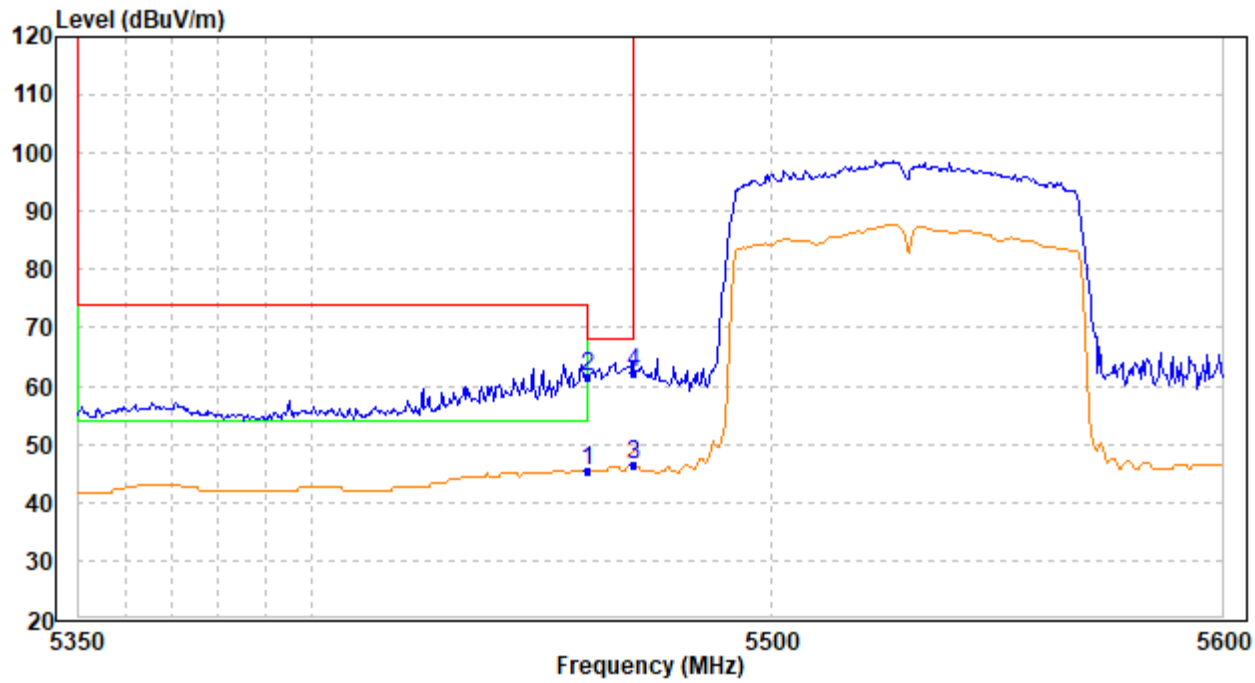
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5150.000	58.92	74.00	43.96	54.00	Pass
5350.000	70.03	74.00	51.66	54.00	Pass

Test Channel:	Channel 106	Ant. Polar. :	Horizontal



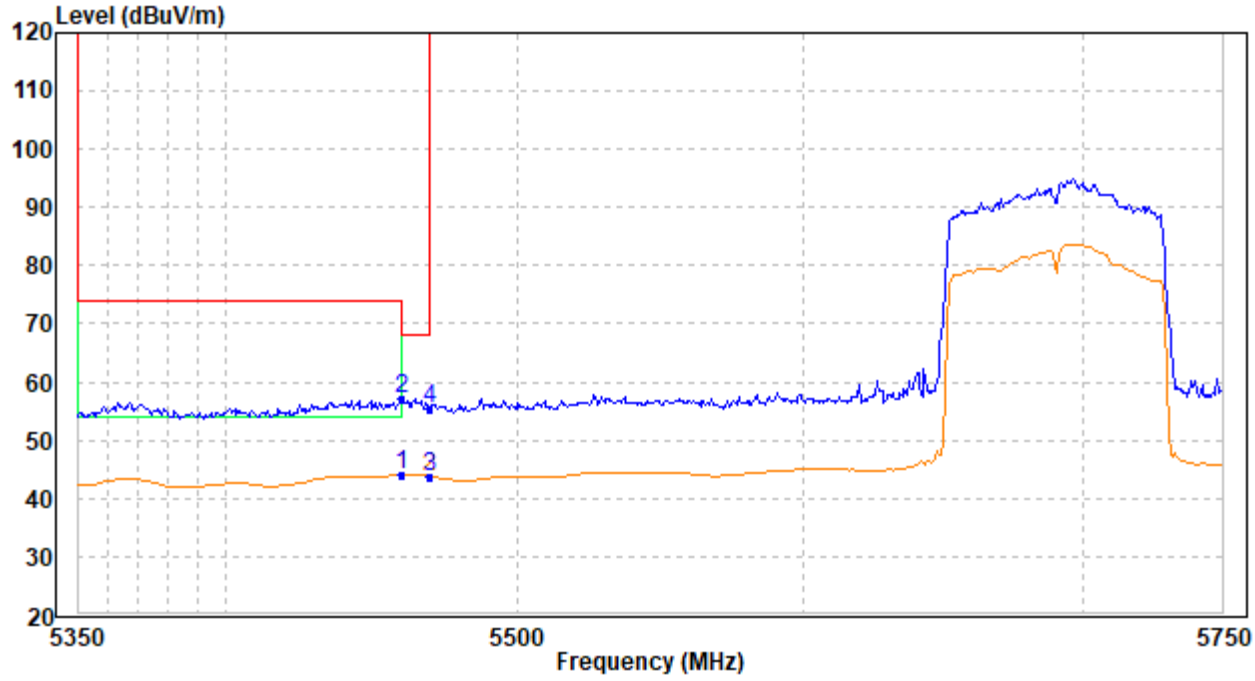
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	58.19	68.20	43.97	54.00	Pass
5470.000	59.78	68.20	44.56	68.20	Pass

Test Channel:	Channel 106	Ant. Polar. :	Vertical



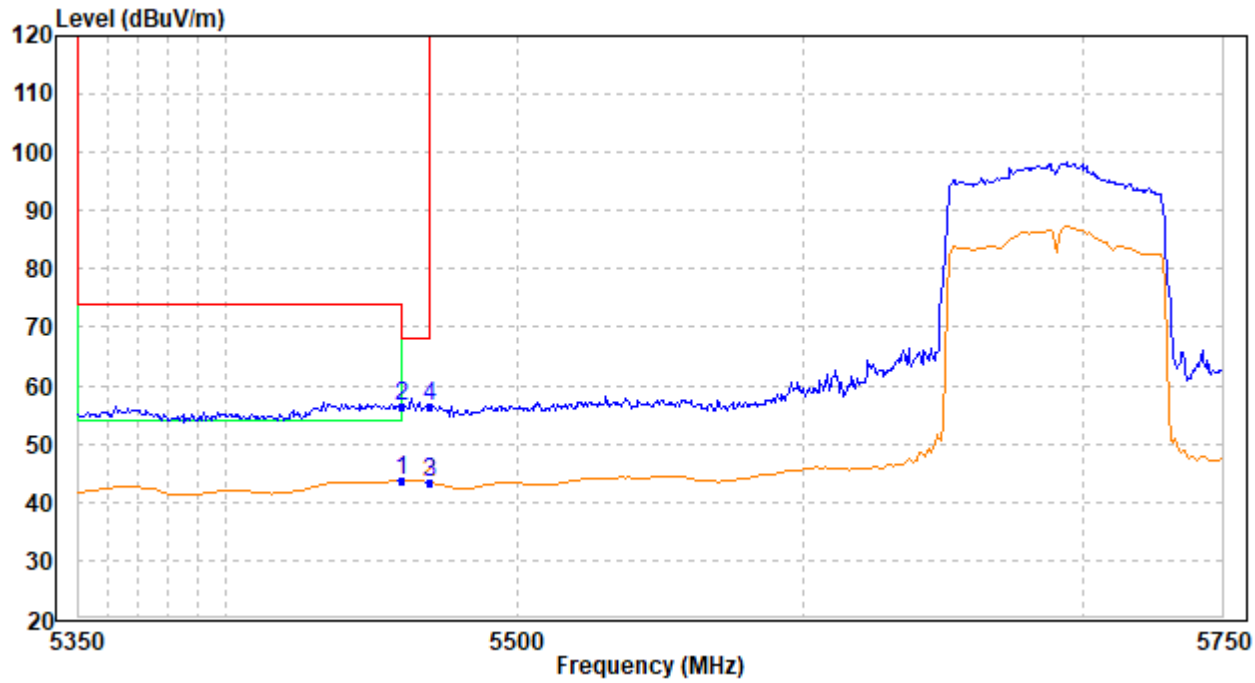
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	61.54	68.20	45.56	54.00	Pass
5470.000	62.32	68.20	46.49	68.20	Pass

Test Channel:	Channel 138_U-NII-2C	Ant. Polar. :	Horizontal



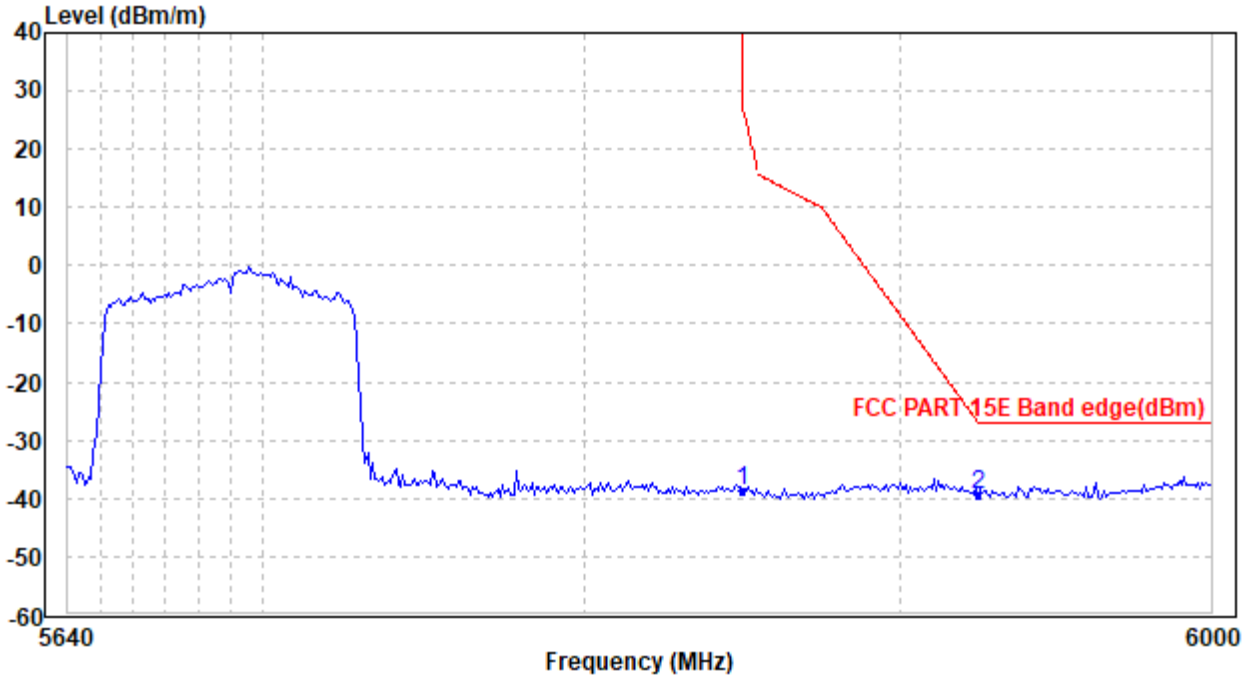
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	57.03	68.20	44.12	54.00	PASS
5470.000	55.35	68.20	43.81	68.20	PASS

Test Channel:	Channel 138_U-NII-2C	Ant. Polar. :	Vertical



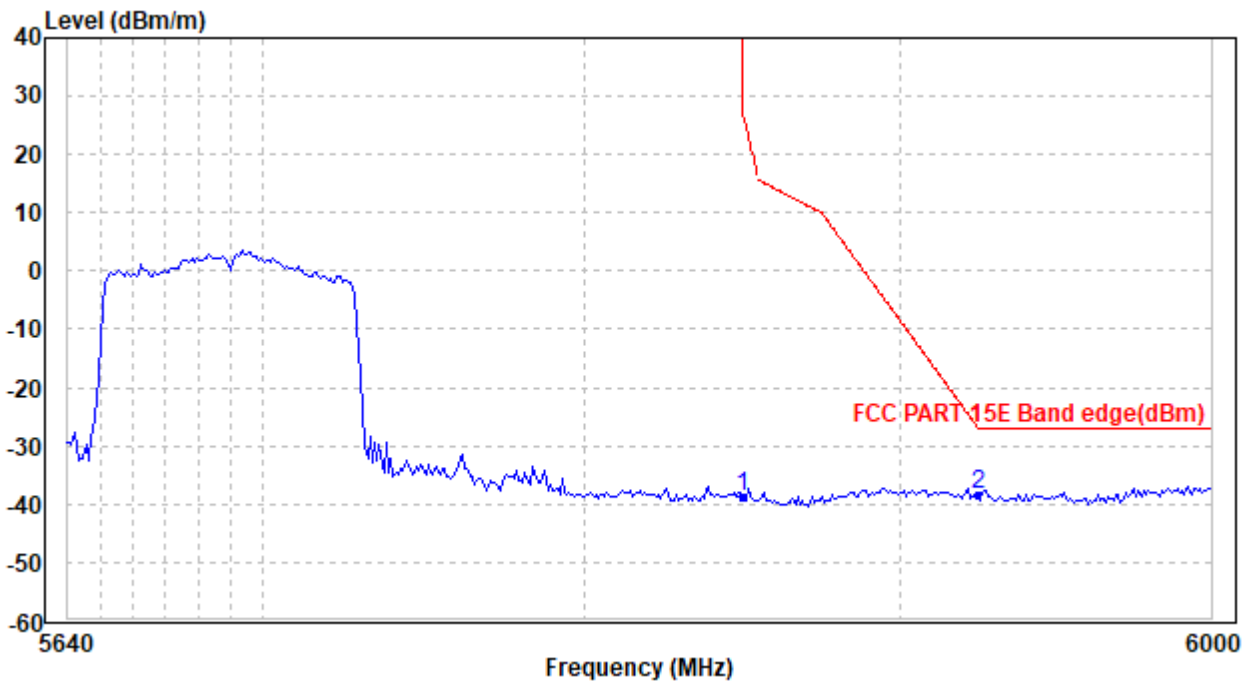
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	56.29	68.20	43.55	54.00	PASS
5470.000	56.57	68.20	43.30	68.20	PASS

Test Channel:	Channel 138_U-NII-3	Ant. Polar. :	Horizontal



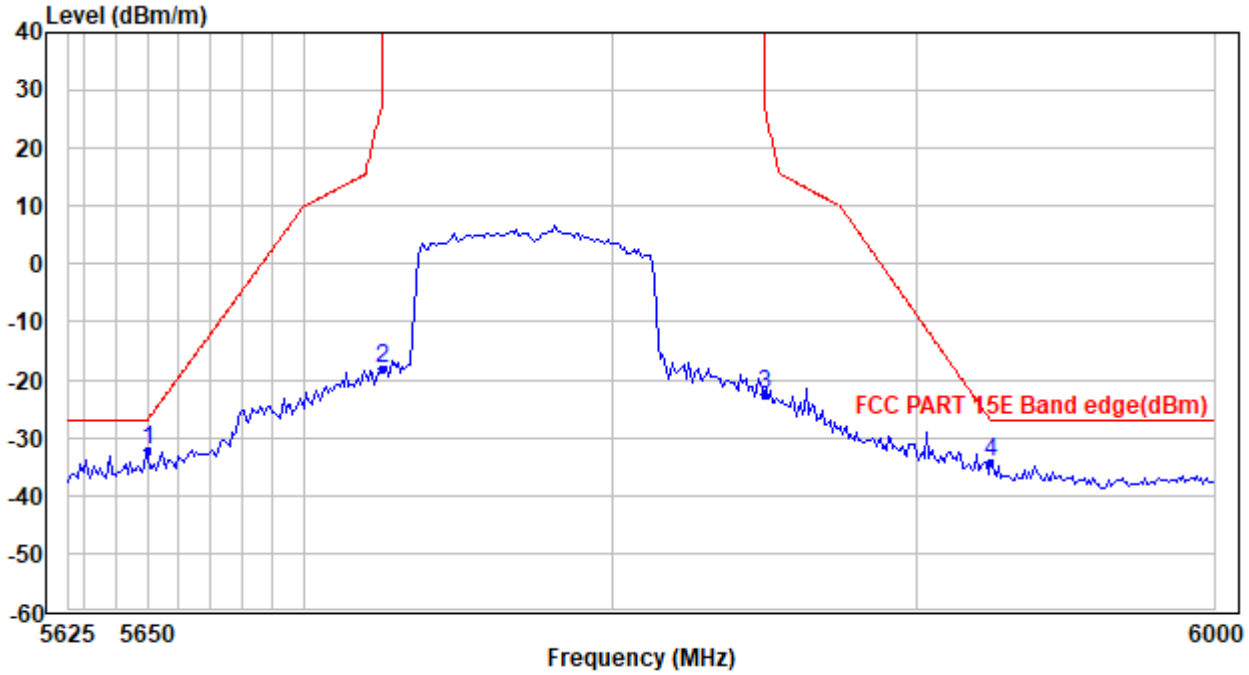
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-38.57	27.00	PASS
5925.000	-39.43	-27.00	PASS

Test Channel:	Channel 138_U-NII-3	Ant. Polar. :	Vertical



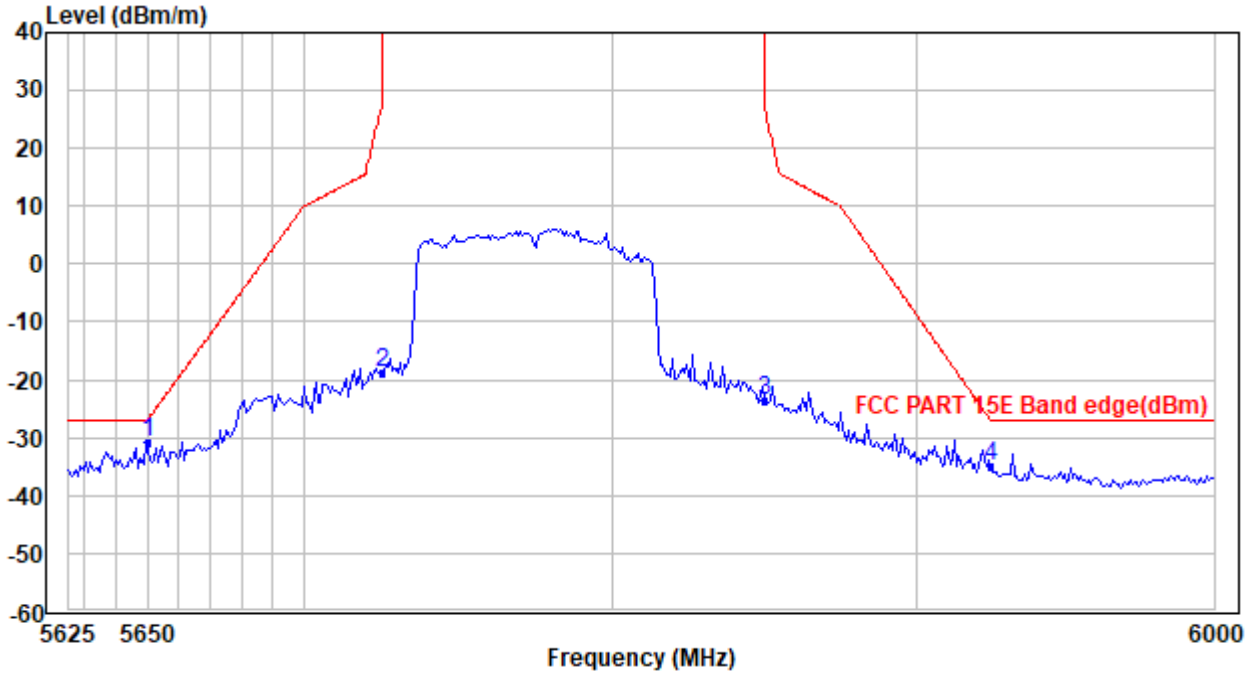
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-38.58	27.00	PASS
5925.000	-38.31	-27.00	PASS

Test Channel:	Channel 155	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-32.22	-27.00	Pass
5725.000	-17.94	27.00	Pass
5850.000	-22.66	27.00	Pass
5925.000	-34.15	-27.00	Pass

Test Channel:	Channel 155	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-30.95	-27.00	Pass
5725.000	-18.61	27.00	Pass
5850.000	-23.65	27.00	Pass
5925.000	-35.04	-27.00	Pass

5.8 DYNAMIC FREQUENCY SELECTION

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (h)

Test Method: KDB 905462 D03 Client Without DFS New Rules v01r02

EUT Operating Mode:

DFS Operational mode	Operating Frequency Range	
	5250 MHz to 5350 MHz	5470 MHz to 5725 MHz
Slave without radar Interference detection function	✓	✓

Applicability:

The following table from KDB905462 and the lists of the applicable requirements for the DFS testing.

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	✓	Not required	Yes
DFS Detection Threshold	✓	Not required	Yes
Channel Availability Check Time	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	Yes

Applicability of DFS requirements during normal operation:

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection:

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64dBm

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.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

DFS Radar Signal Parameter Values:

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1.)
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and 2.)
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. (See Note 3.)

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: 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 a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

DFS Radar Signal Parameter:

Radar Type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time

Table 1-Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1.	See Note 1.
1	1	Test A Test B	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu sec}}\right)\right\}$	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

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a
Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A
A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.
If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.
The aggregate is the average of the percentage of successful detections of short pulse radar types

1-4

Table 2-Long Pulse Radar Test Waveform

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

Table 3-Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

In-Service Monitoring: Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

Limit of In-Service Monitoring:

Reference to DFS Radar Signal Parameter Values.

Test Procedures:

a) One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.

b) In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT (Master). For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.

c) The TCP protocol unicast data stream was generated by the iperf software command line with at least 17% activity ratio over any 100ms period.

d) Timing plots are reported with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time).

e) At time T0 the Radar Waveform generator sends a Burst of pulses for one of the Short Pulse Radar Types 1-4 at DFS Detection Threshold levels on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.

f) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs.

g) When operating as a Master Device, monitor the EUT for more than 30 minutes following instant T2 to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.

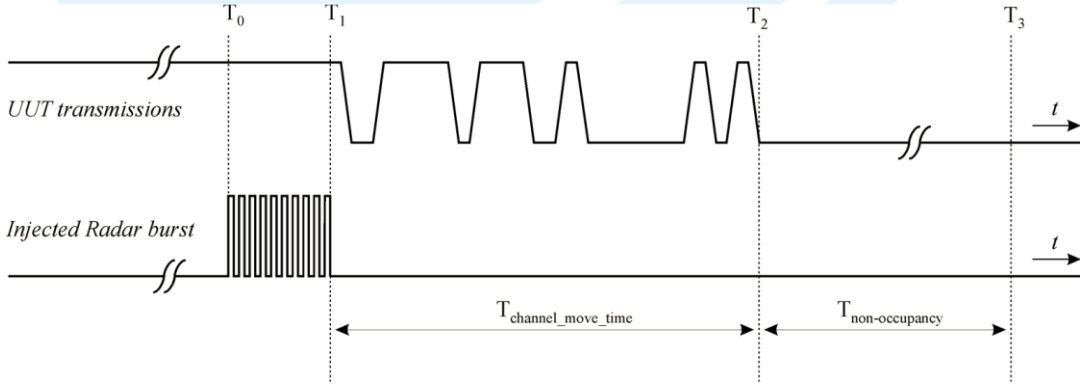
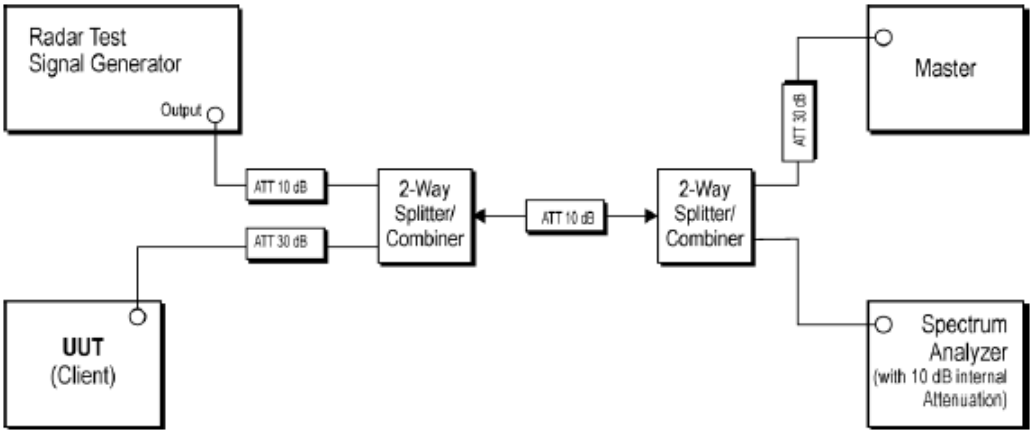


Figure 17: Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period

Conducted test setup



Setup for Client with injection at the Master

Equipment Used: Refer to section 3 for details.

Test Result: Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Tes

Please refer to Appendix A

5.9 AC POWER LINE CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.207

Test Method: ANSI C63.10-2013 Section 6.2

Limits:

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.4.2 for details.

Test Procedures:

Test frequency range :150KHz-30MHz

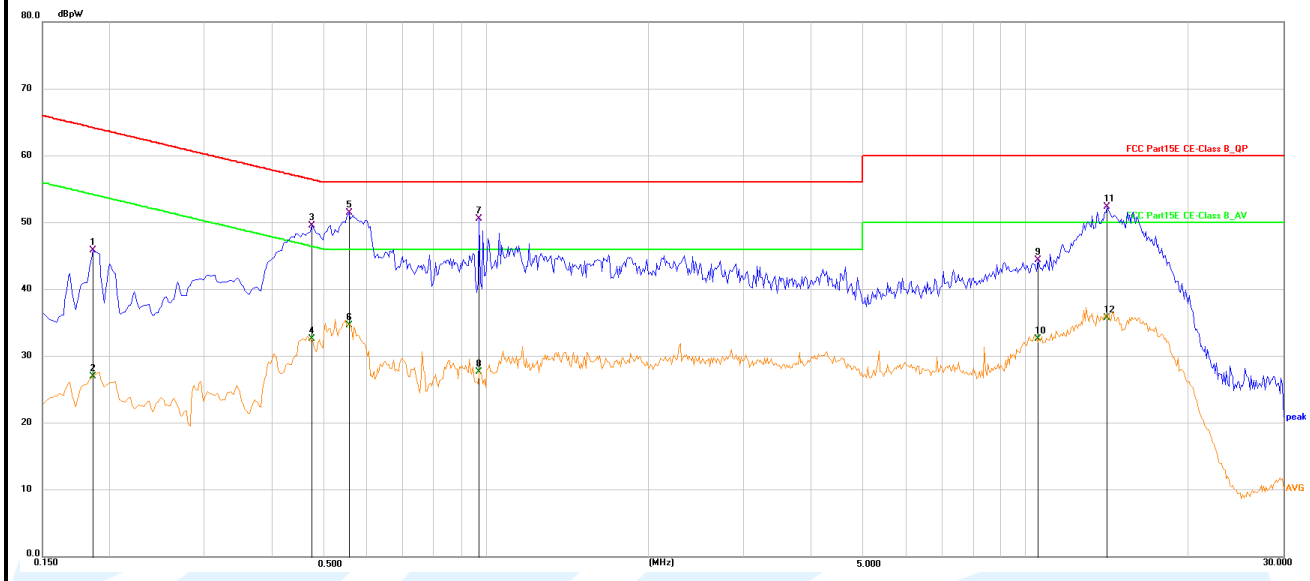
1) The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

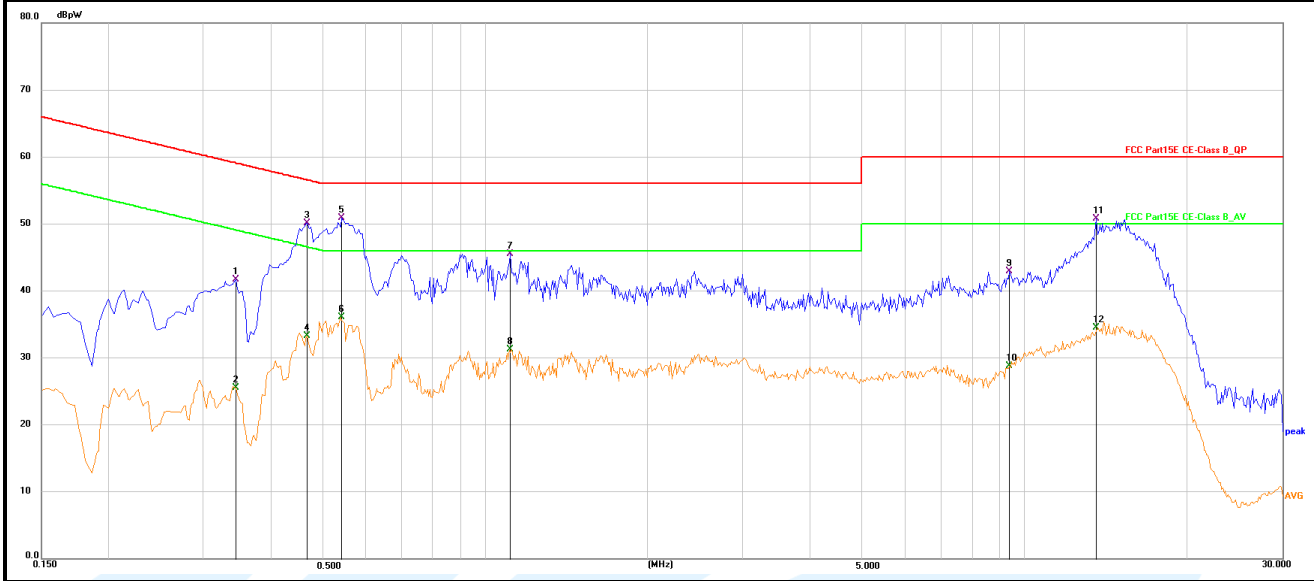
The worst measurement data as follows:
Quasi Peak and Average:
Test Mode: WIFI Link

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1860	35.64	10.17	45.81	64.21	-18.40	QP
2	0.1860	16.79	10.17	26.96	54.21	-27.25	AVG
3	0.4740	39.39	10.18	49.57	56.44	-6.87	QP
4	0.4740	22.40	10.18	32.58	46.44	-13.86	AVG
5	0.5550	41.30	10.20	51.50	56.00	-4.50	QP
6	0.5550	24.47	10.20	34.67	46.00	-11.33	AVG
7	0.9690	40.19	10.33	50.52	56.00	-5.48	QP
8	0.9690	17.29	10.33	27.62	46.00	-18.38	AVG
9	10.5090	33.88	10.48	44.36	60.00	-15.64	QP
10	10.5090	22.16	10.48	32.64	50.00	-17.36	AVG
11	14.2035	41.89	10.50	52.39	60.00	-7.61	QP
12	14.2035	25.20	10.50	35.70	50.00	-14.30	AVG

Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3435	31.51	10.14	41.65	59.12	-17.47	QP
2	0.3435	15.40	10.14	25.54	49.12	-23.58	AVG
3	0.4650	39.86	10.25	50.11	56.60	-6.49	QP
4	0.4650	23.07	10.25	33.32	46.60	-13.28	AVG
5	0.5413	40.65	10.27	50.92	56.00	-5.08	QP
6	0.5413	25.84	10.27	36.11	46.00	-9.89	AVG
7	1.1130	35.29	10.18	45.47	56.00	-10.53	QP
8	1.1130	21.05	10.18	31.23	46.00	-14.77	AVG
9	9.3704	32.57	10.38	42.95	60.00	-17.05	QP
10	9.3704	18.39	10.38	28.77	50.00	-21.23	AVG
11	13.5600	40.15	10.58	50.73	60.00	-9.27	QP
12	13.5600	23.95	10.58	34.53	50.00	-15.47	AVG

Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V~50Hz and 120V~60Hz, only the worst case emissions reported.

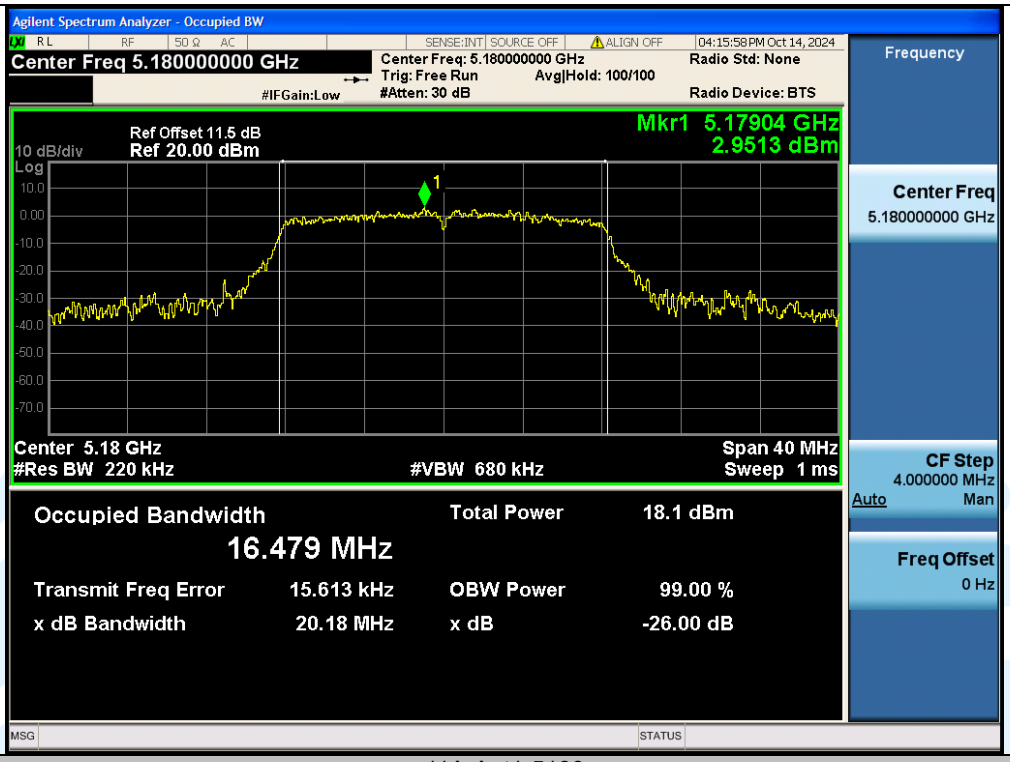
APPENDIX A RF TEST DATA

A.1 EMISSION BANDWIDTH

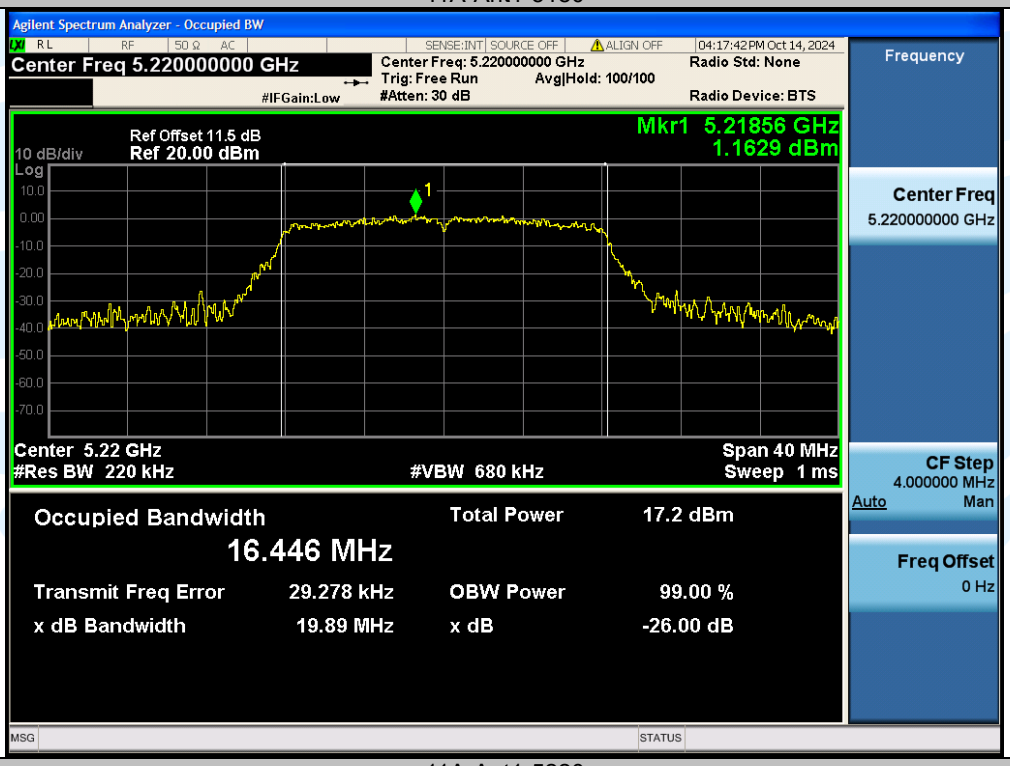
For U-NII-1, U-NII-2A band

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.18	---	---
11A	Ant1	5220	19.89	---	---
11A	Ant1	5240	19.82	---	---
11A	Ant1	5260	19.88	---	---
11A	Ant1	5300	19.72	---	---
11A	Ant1	5320	20.88	---	---
11N20SISO	Ant1	5180	20.02	---	---
11N20SISO	Ant1	5220	20.08	---	---
11N20SISO	Ant1	5240	19.84	---	---
11N20SISO	Ant1	5260	20.27	---	---
11N20SISO	Ant1	5300	19.93	---	---
11N20SISO	Ant1	5320	20.04	---	---
11N40SISO	Ant1	5190	40.06	---	---
11N40SISO	Ant1	5230	40.27	---	---
11N40SISO	Ant1	5270	40.21	---	---
11N40SISO	Ant1	5310	39.99	---	---
11AC20SISO	Ant1	5180	20.09	---	---
11AC20SISO	Ant1	5220	20.03	---	---
11AC20SISO	Ant1	5240	20.17	---	---
11AC20SISO	Ant1	5260	20.28	---	---
11AC20SISO	Ant1	5300	20.12	---	---
11AC20SISO	Ant1	5320	20.05	---	---
11AC40SISO	Ant1	5190	39.88	---	---
11AC40SISO	Ant1	5230	40.23	---	---
11AC40SISO	Ant1	5270	40.05	---	---
11AC40SISO	Ant1	5310	40.05	---	---
11AC80SISO	Ant1	5210	80.65	---	---
11AC80SISO	Ant1	5290	80.52	---	---

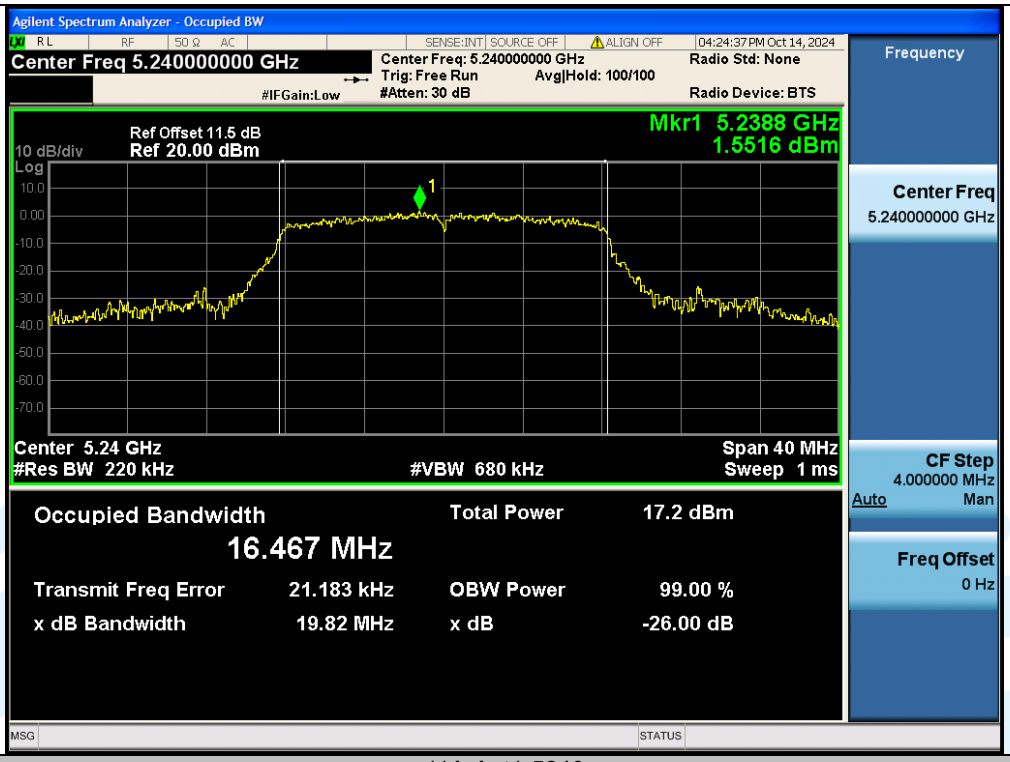
Test Graphs



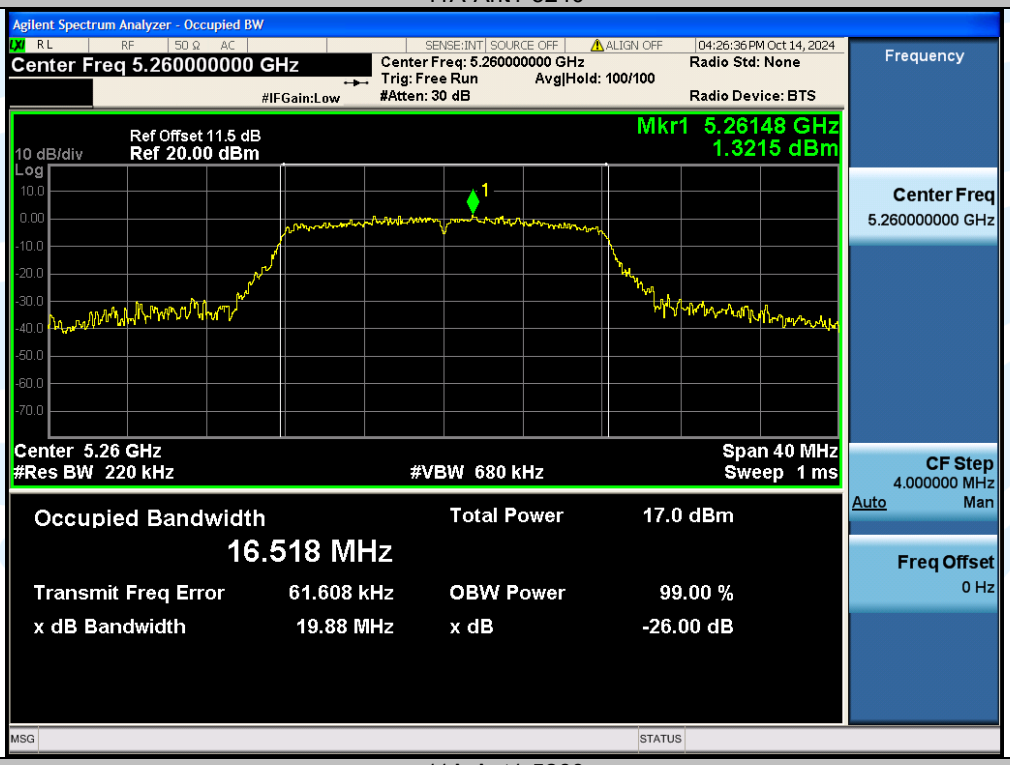
11A-Ant1-5180



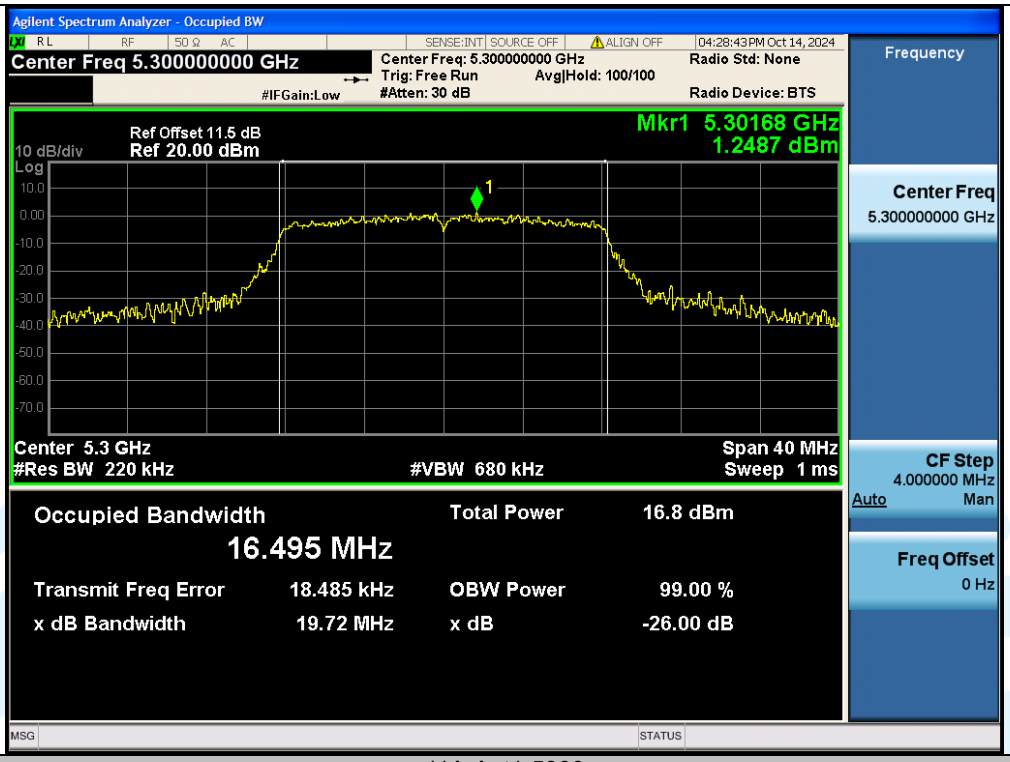
11A-Ant1-5220



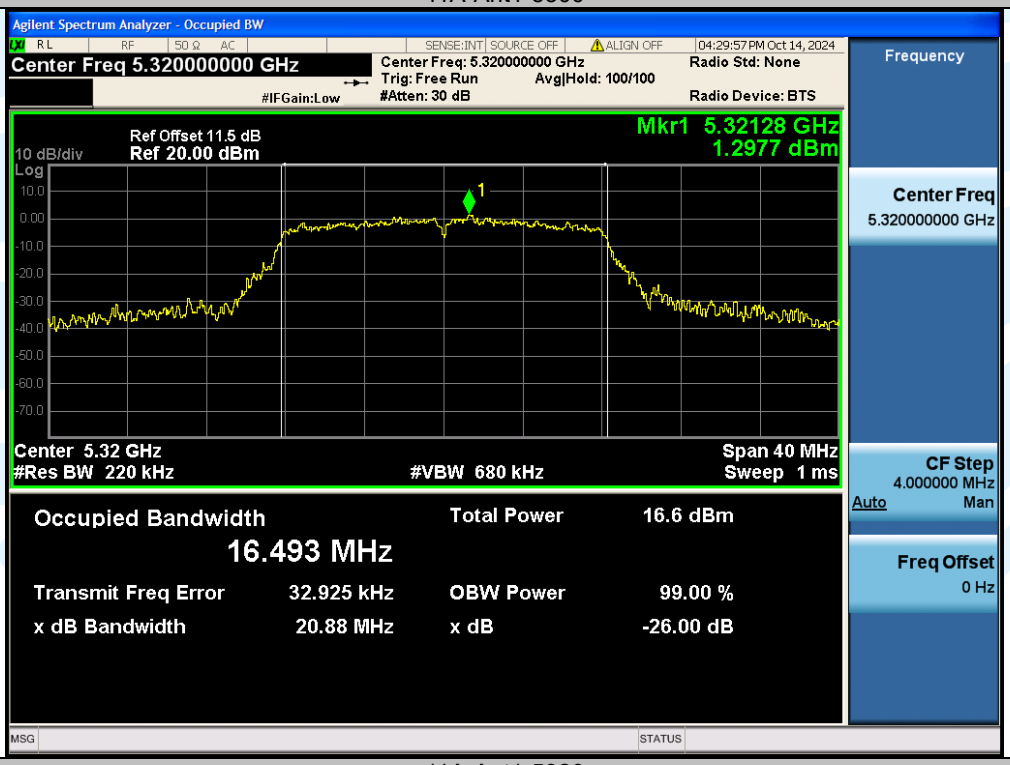
11A-Ant1-5240



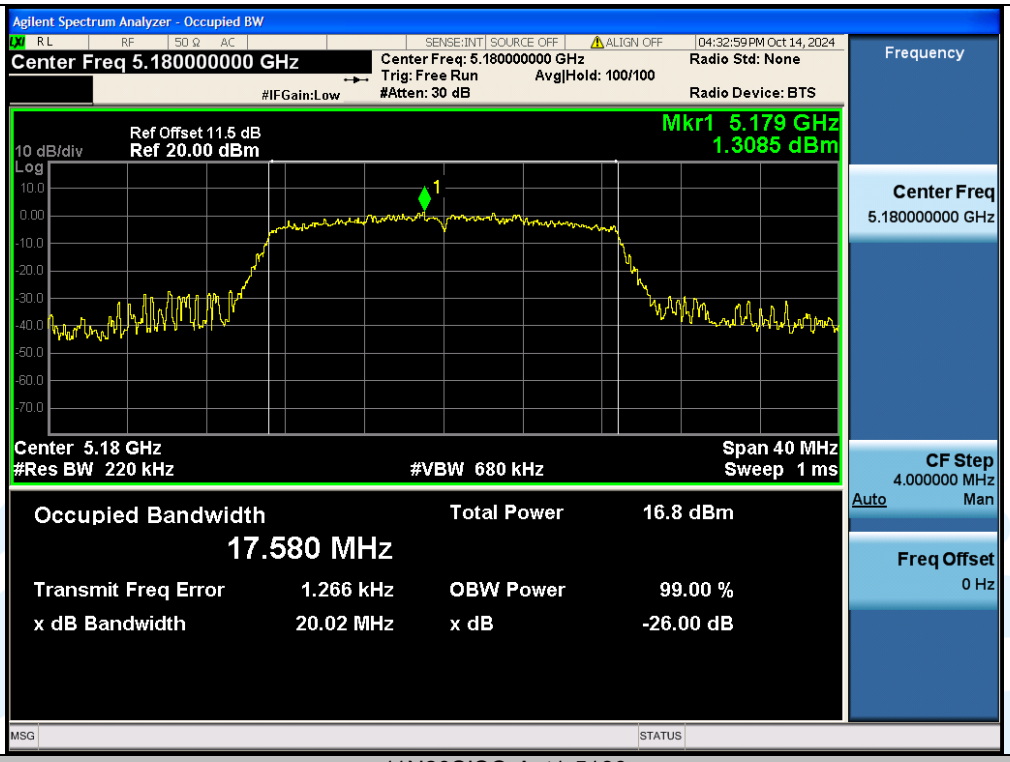
11A-Ant1-5260



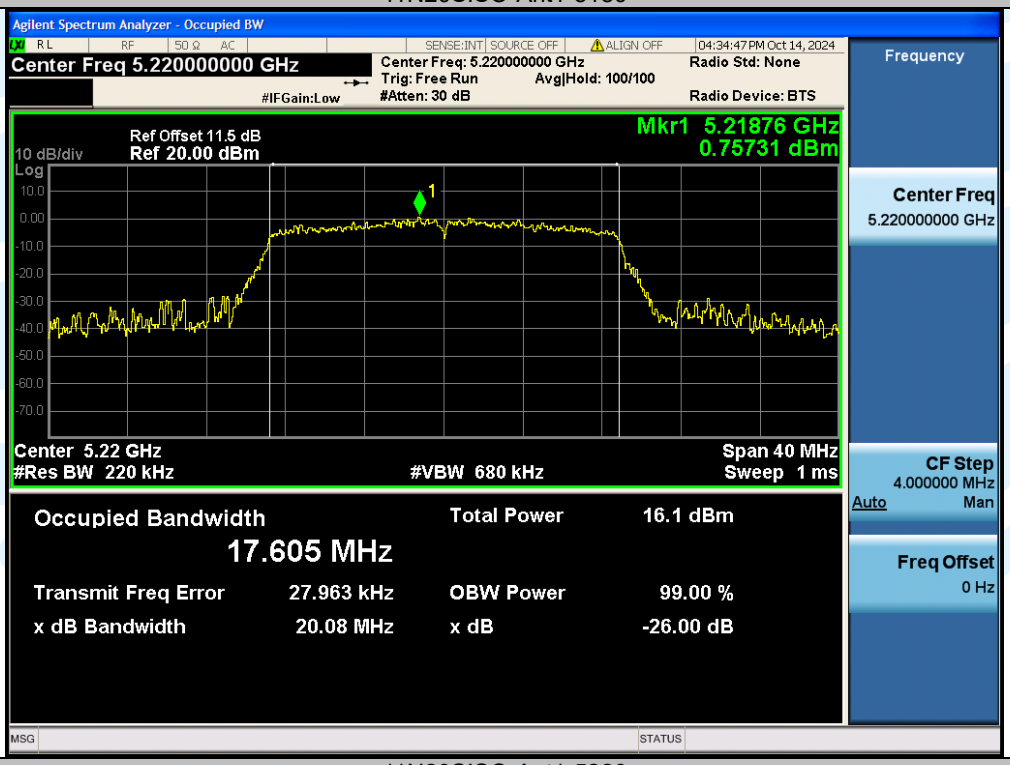
11A-Ant1-5300



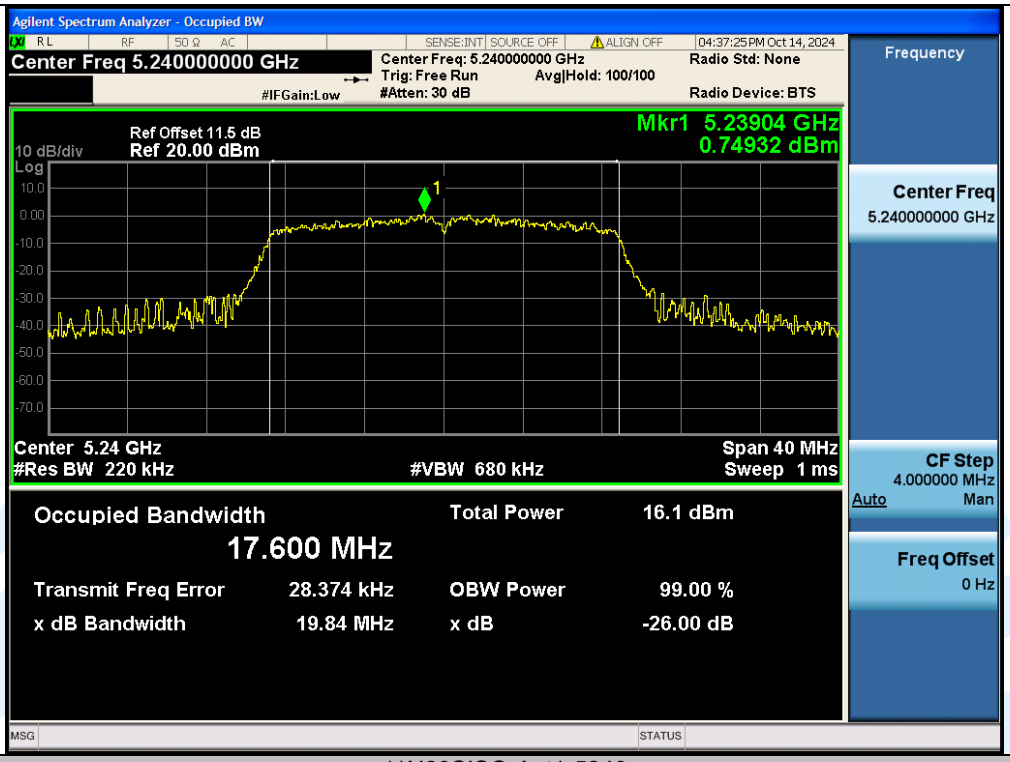
11A-Ant1-5320



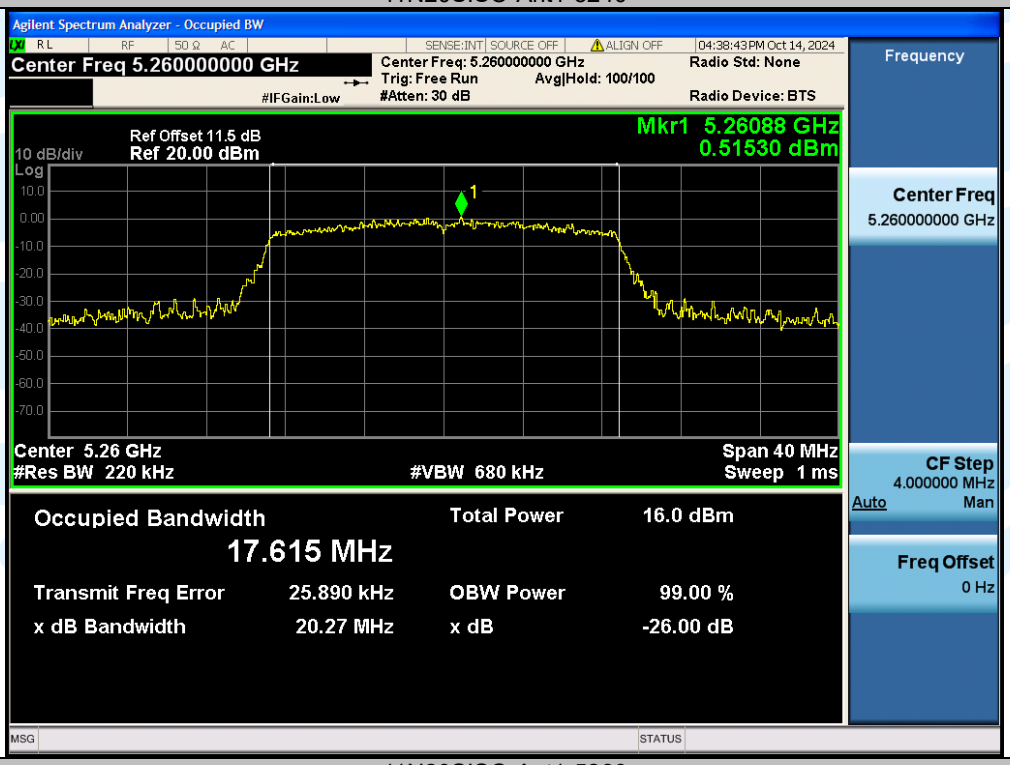
11N20SISO-Ant1-5180



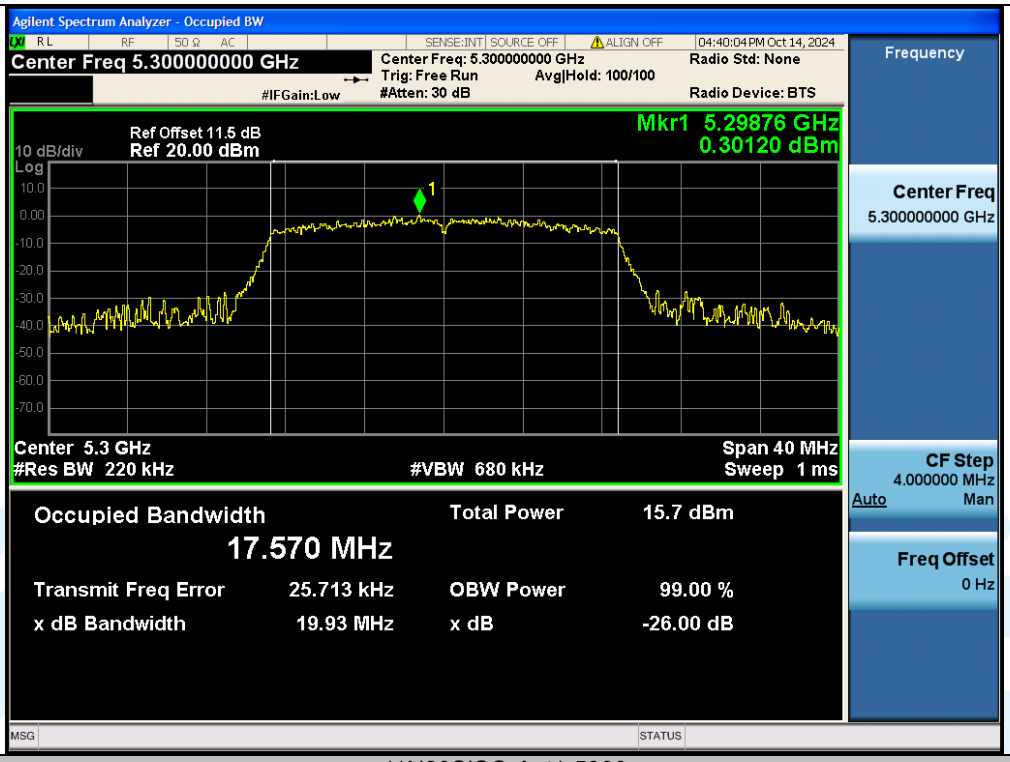
11N20SISO-Ant1-5220



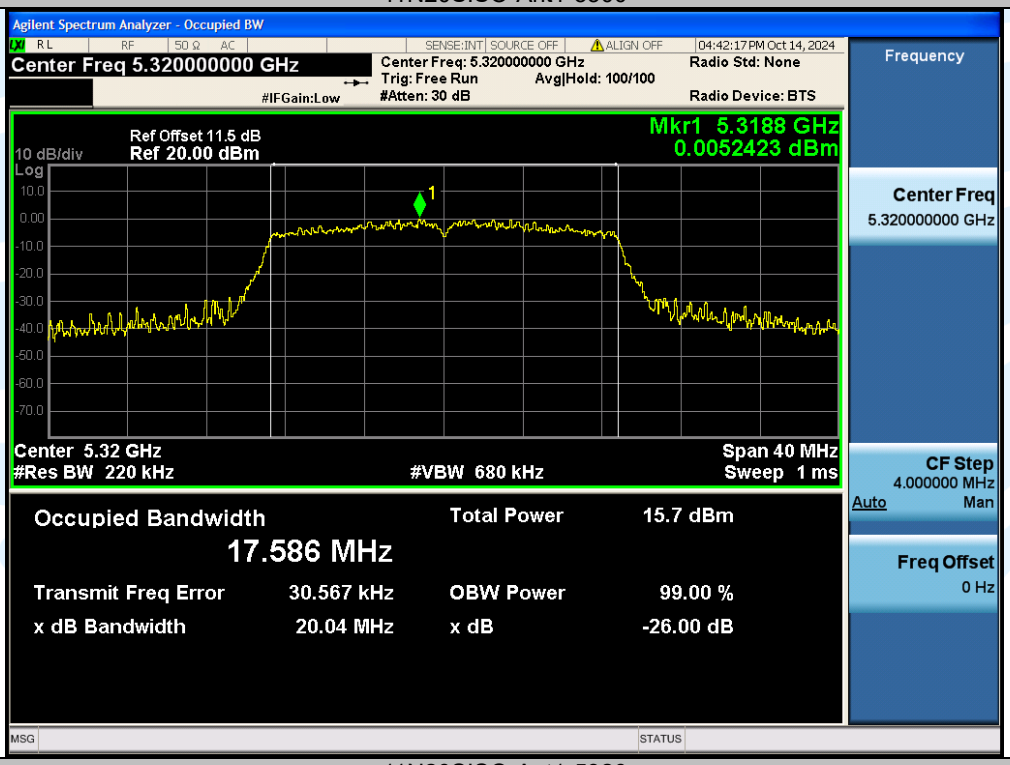
11N20SISO-Ant1-5240



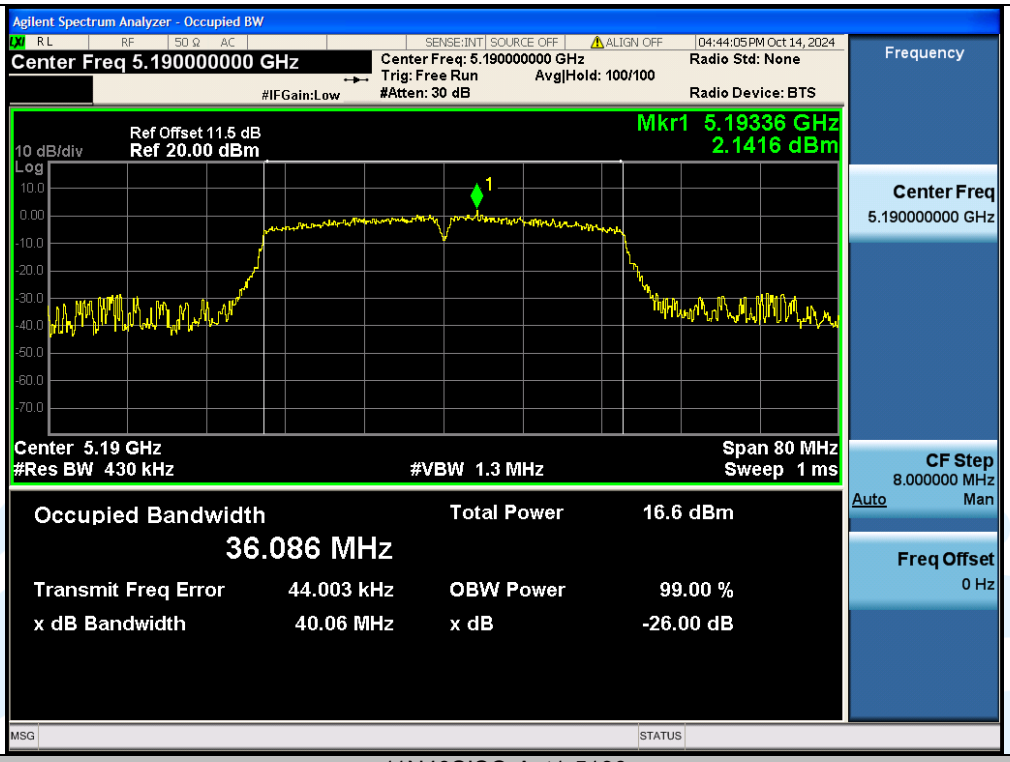
11N20SISO-Ant1-5260



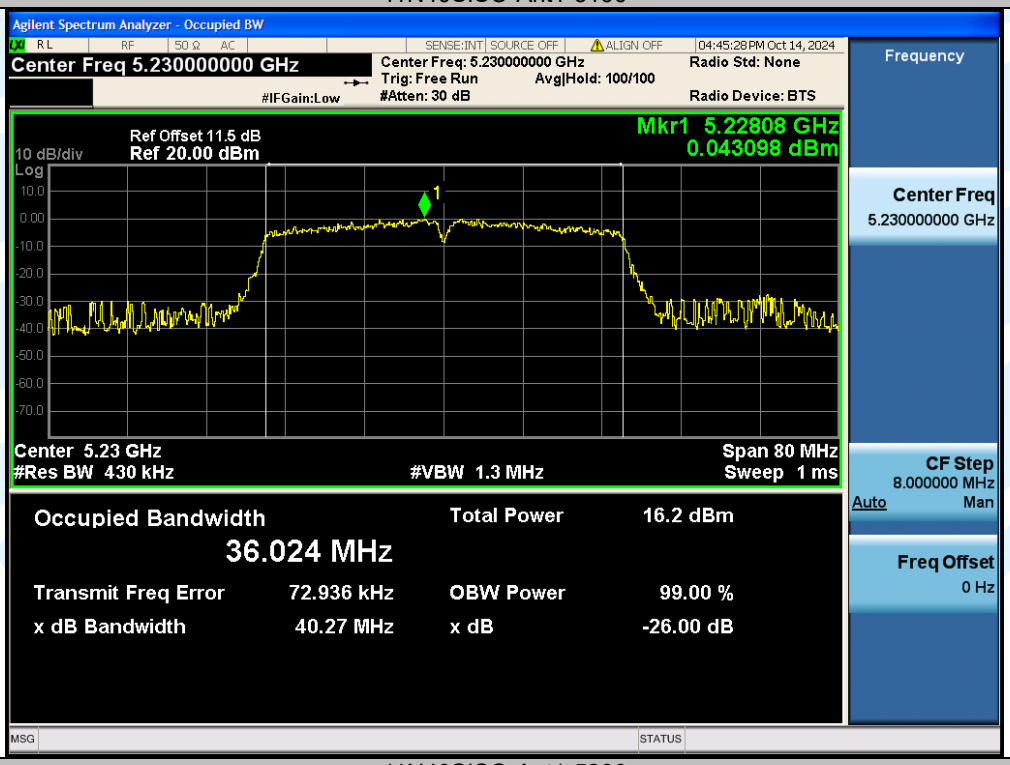
11N20SISO-Ant1-5300



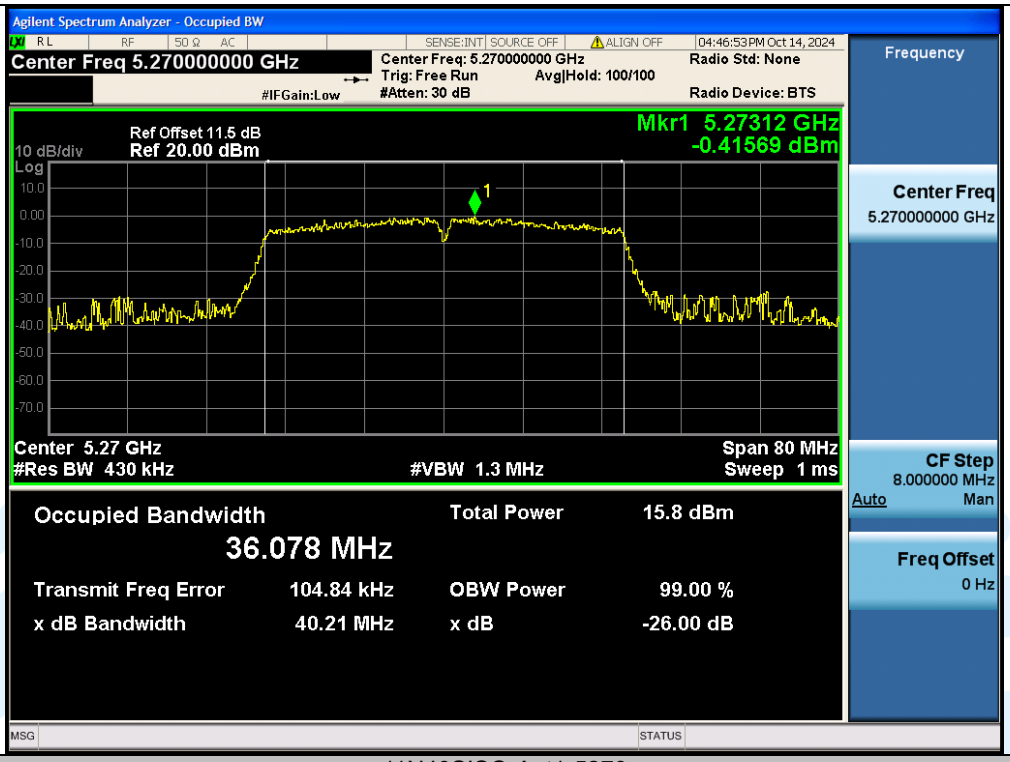
11N20SISO-Ant1-5320



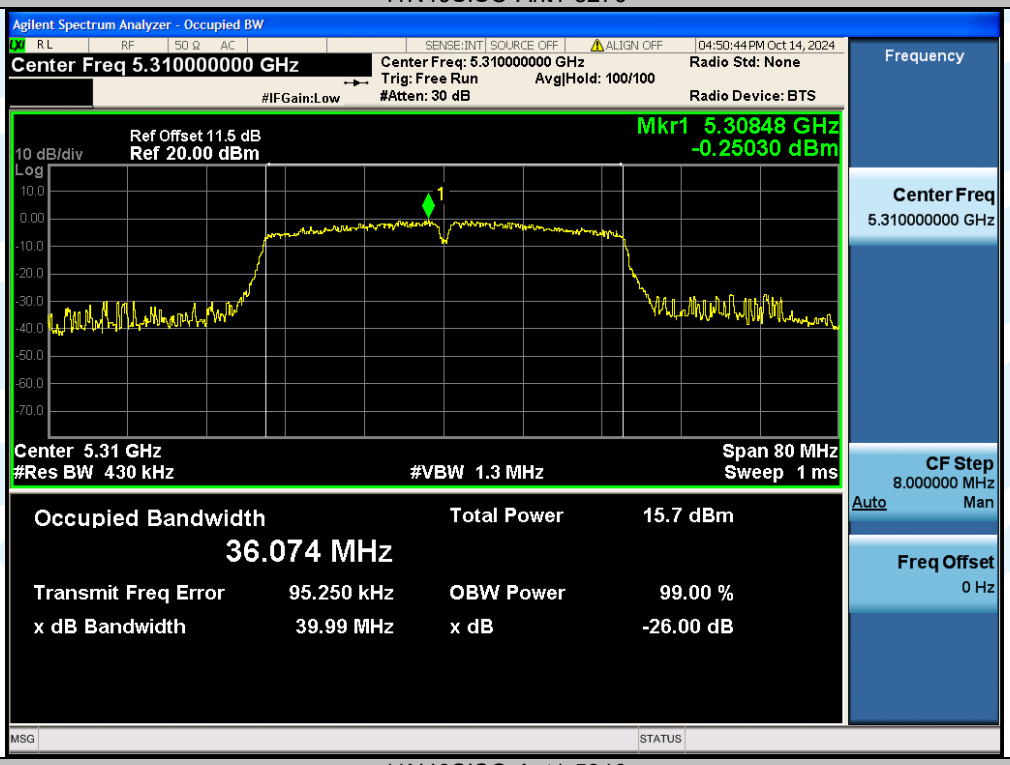
11N40SISO-Ant1-5190



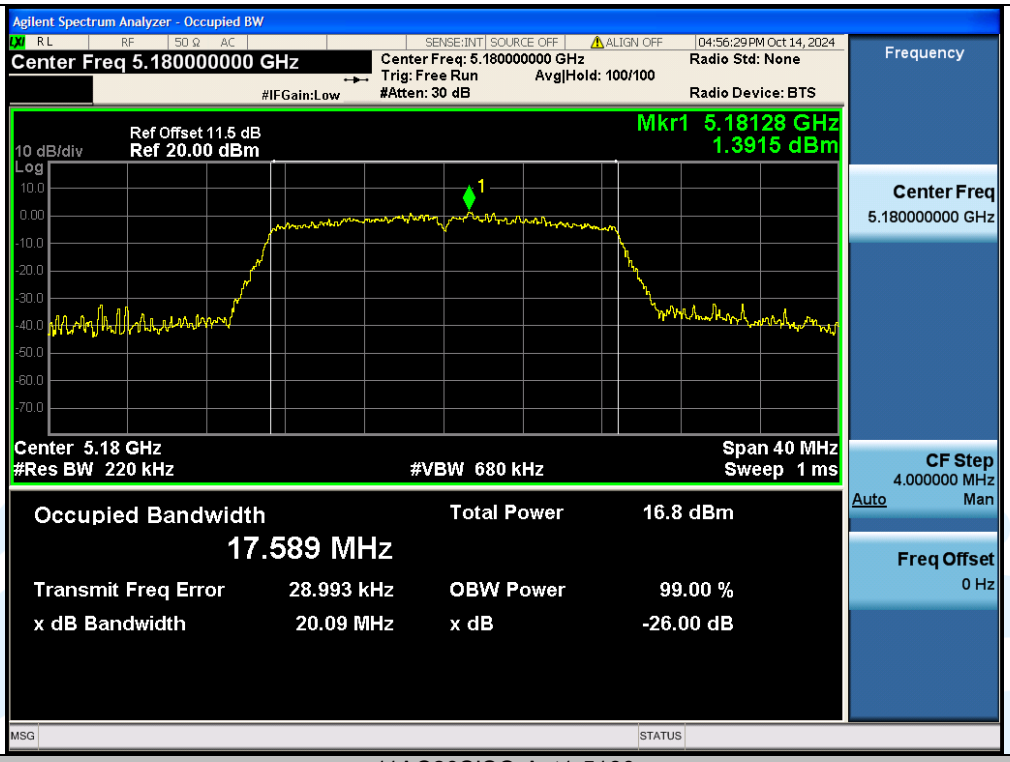
11N40SISO-Ant1-5230



11N40SISO-Ant1-5270



11N40SISO-Ant1-5310



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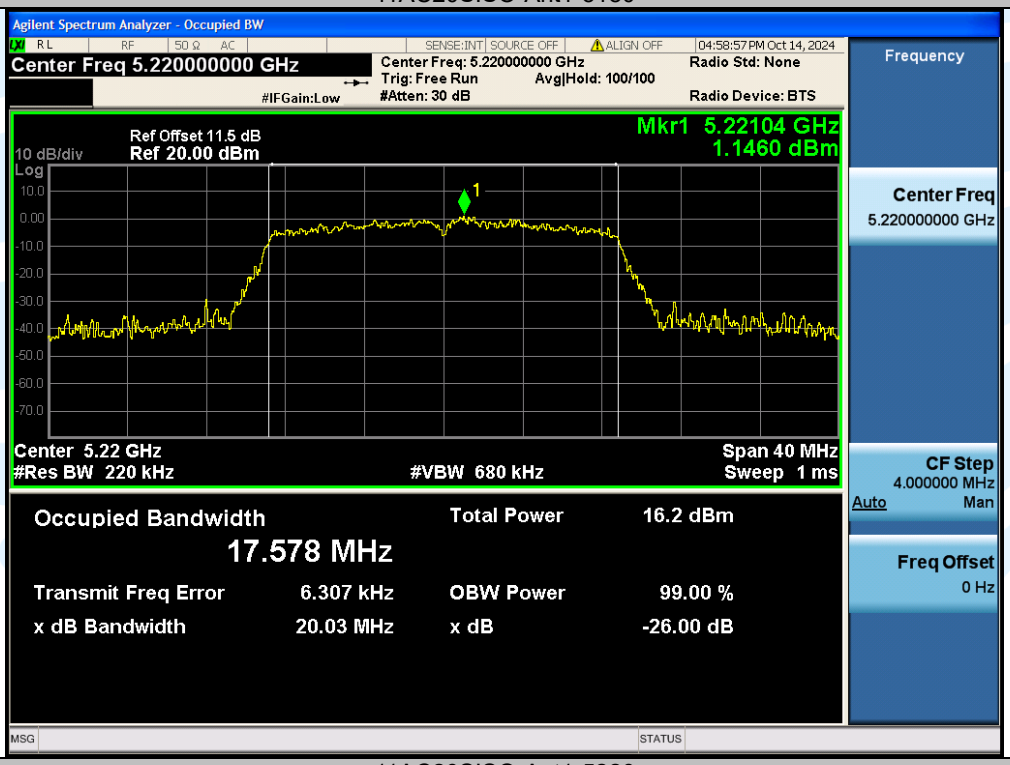

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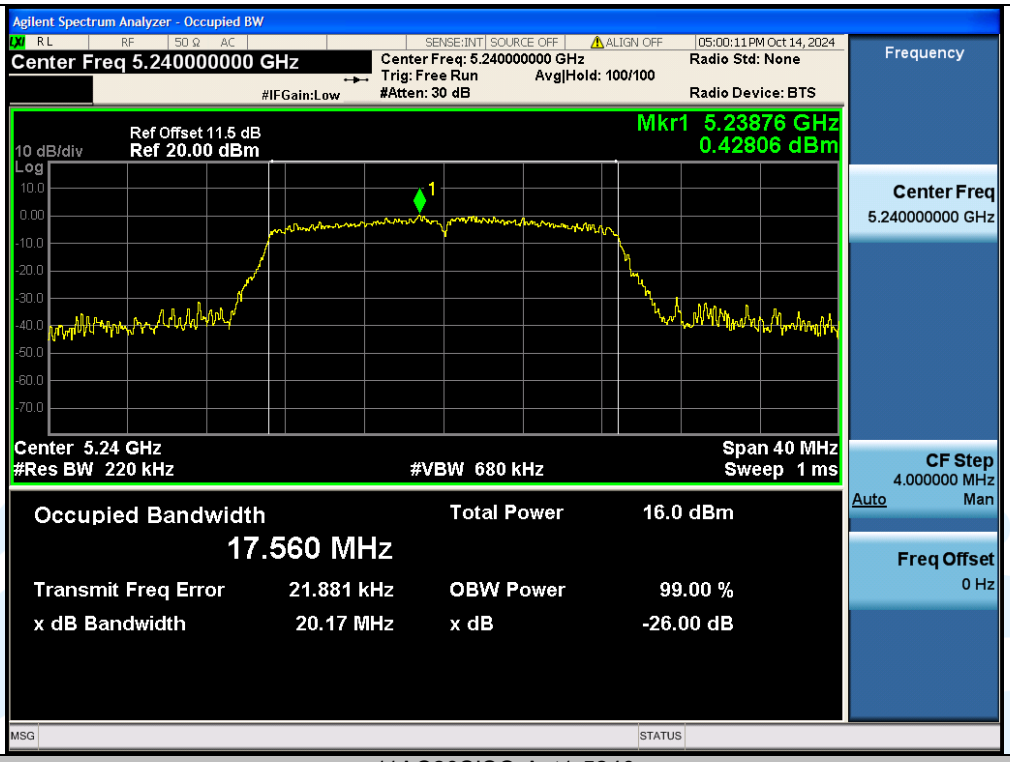

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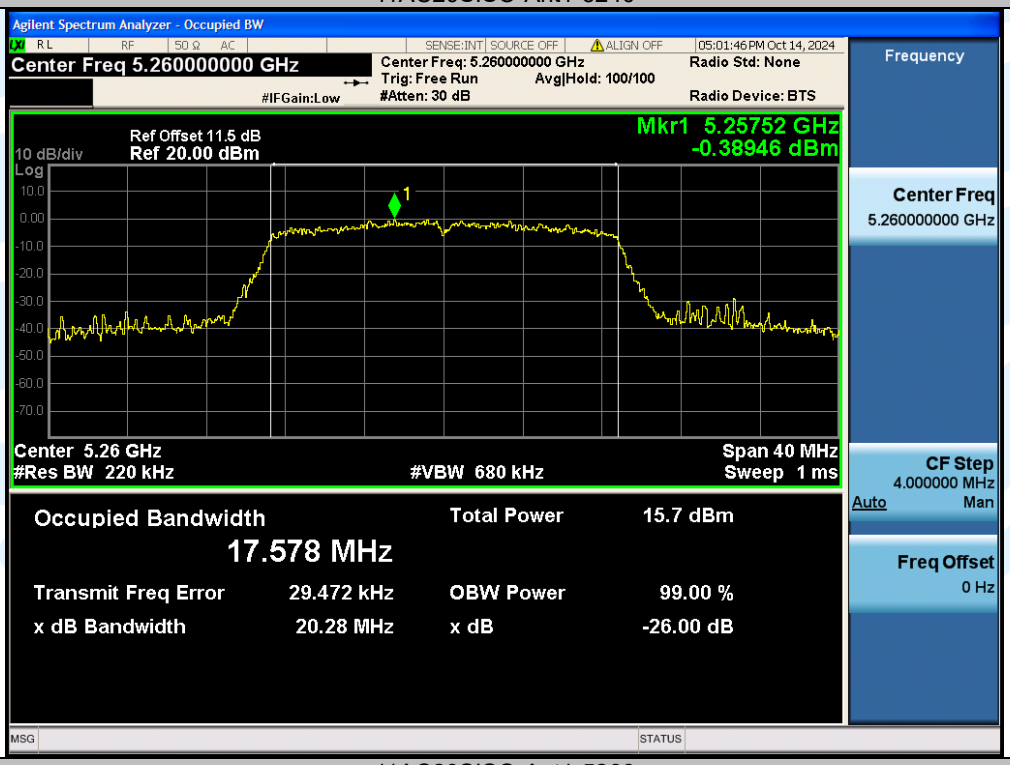

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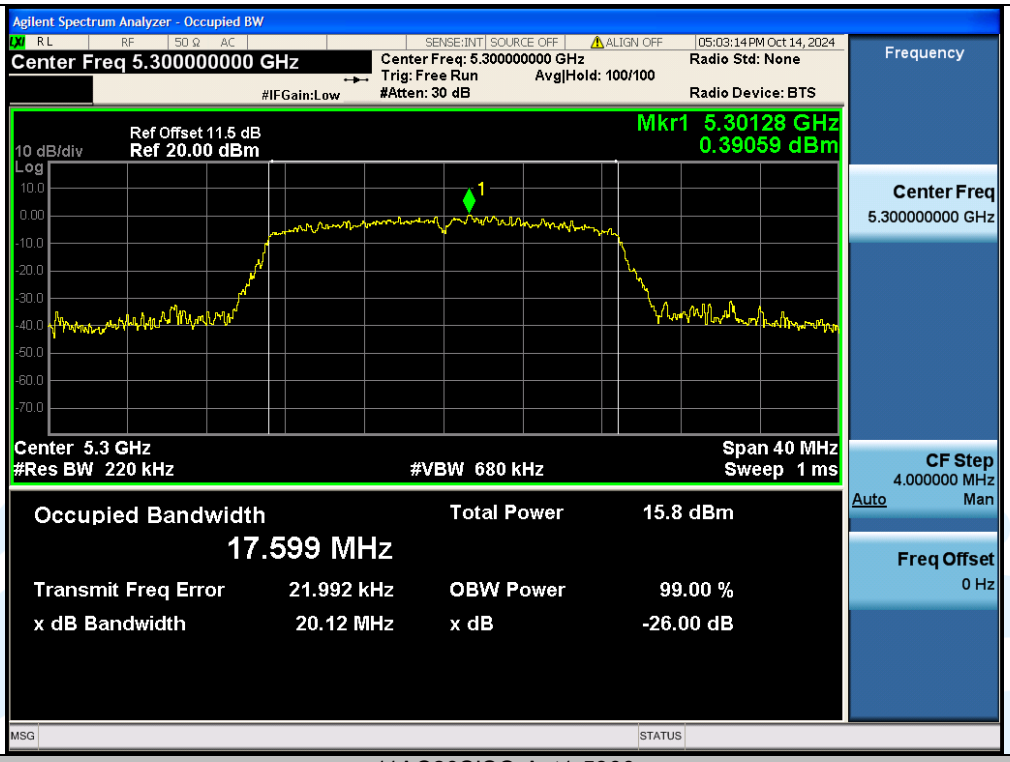

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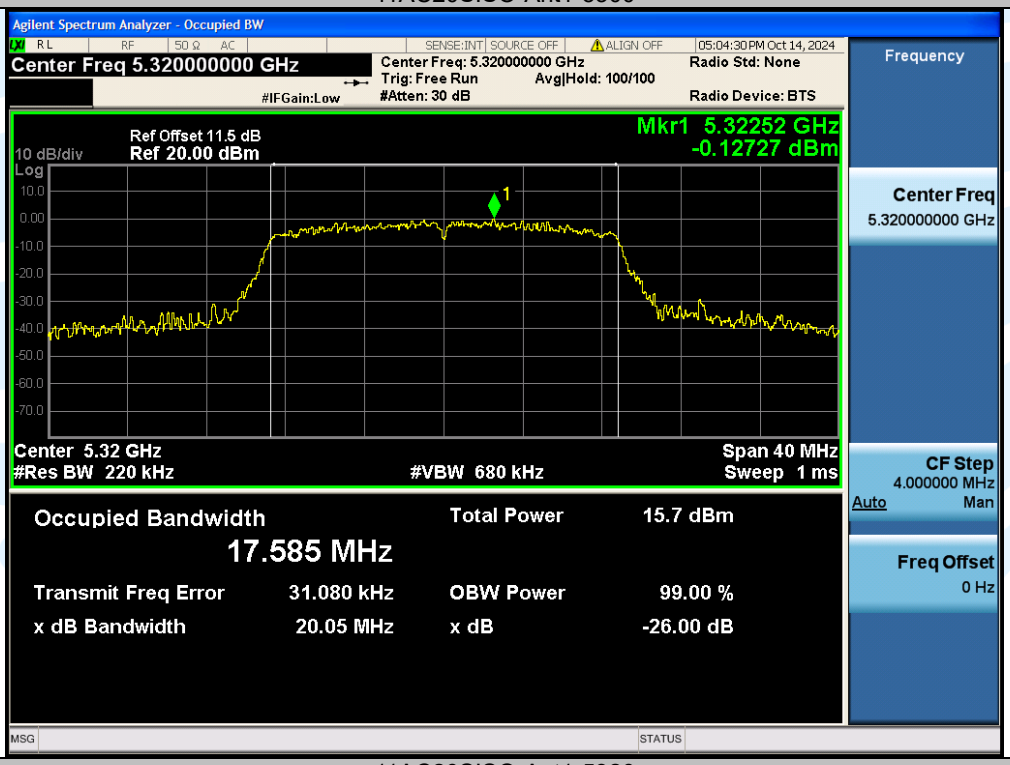

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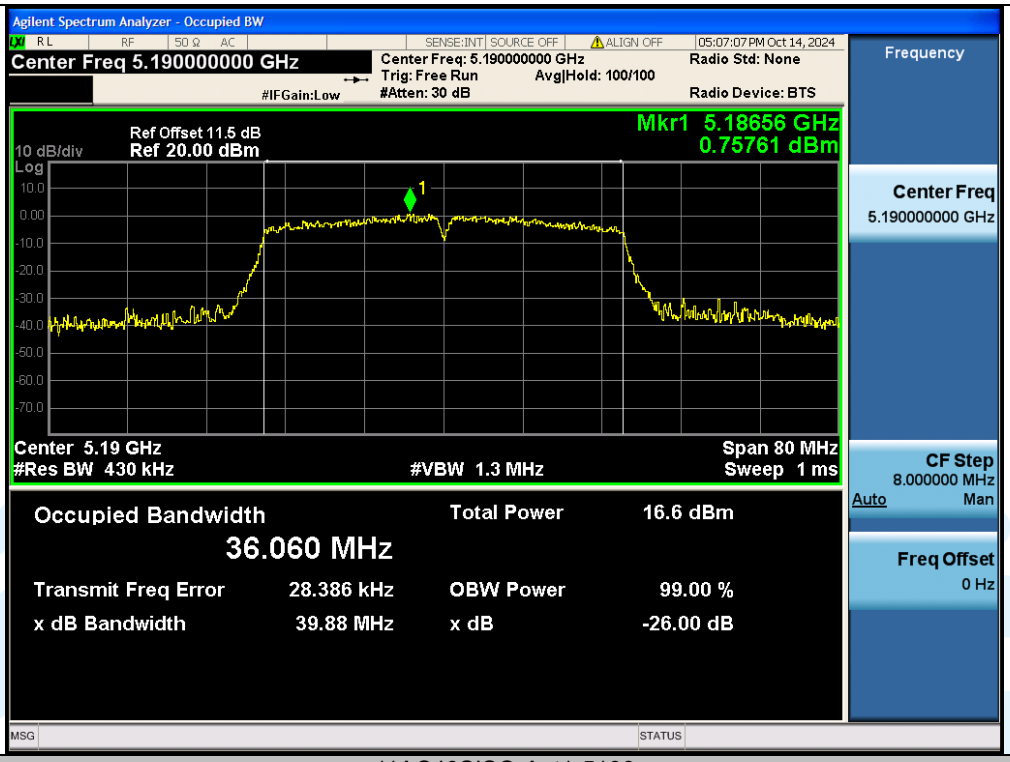
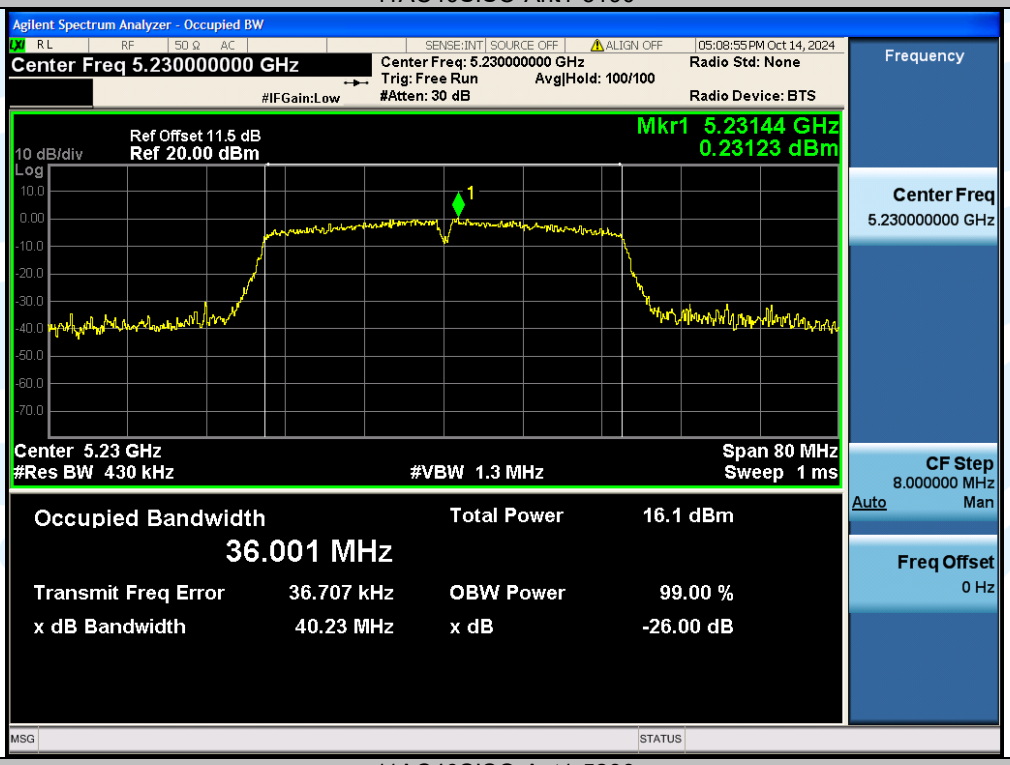


11AC40SISO-Ant1-5190



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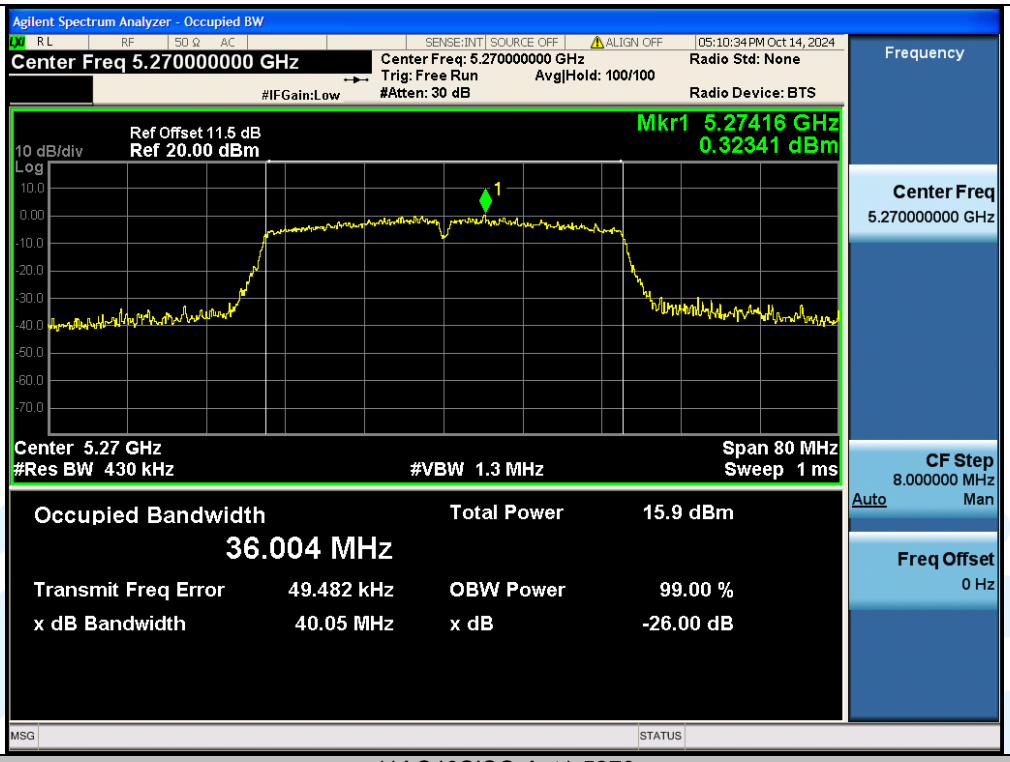

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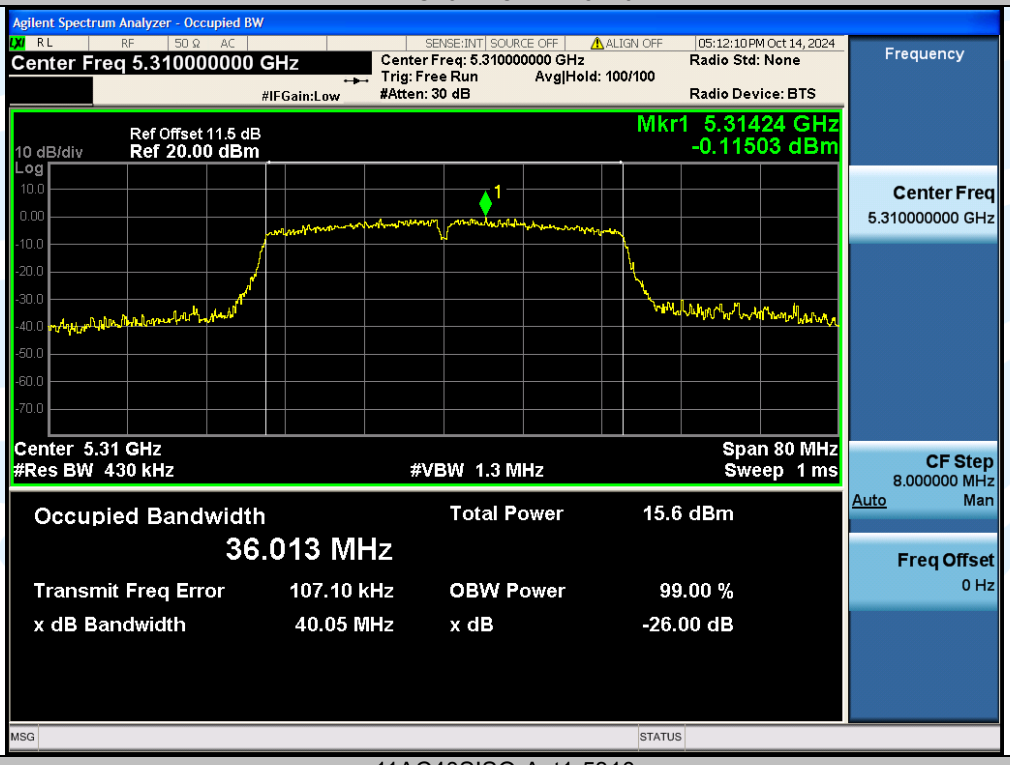
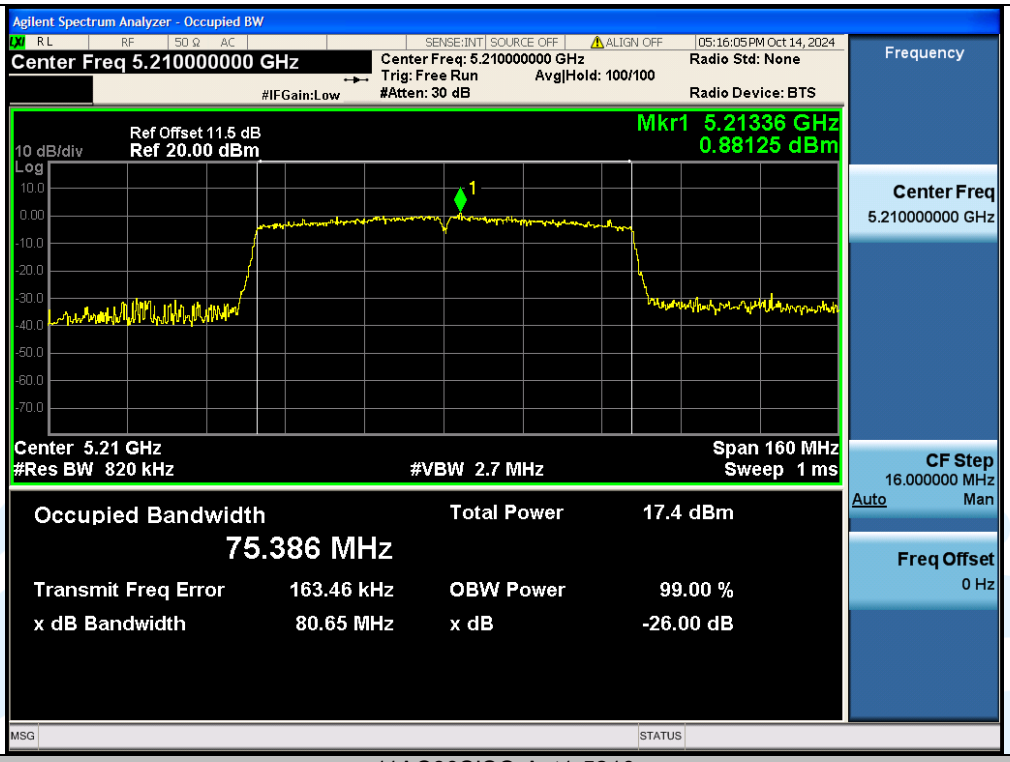
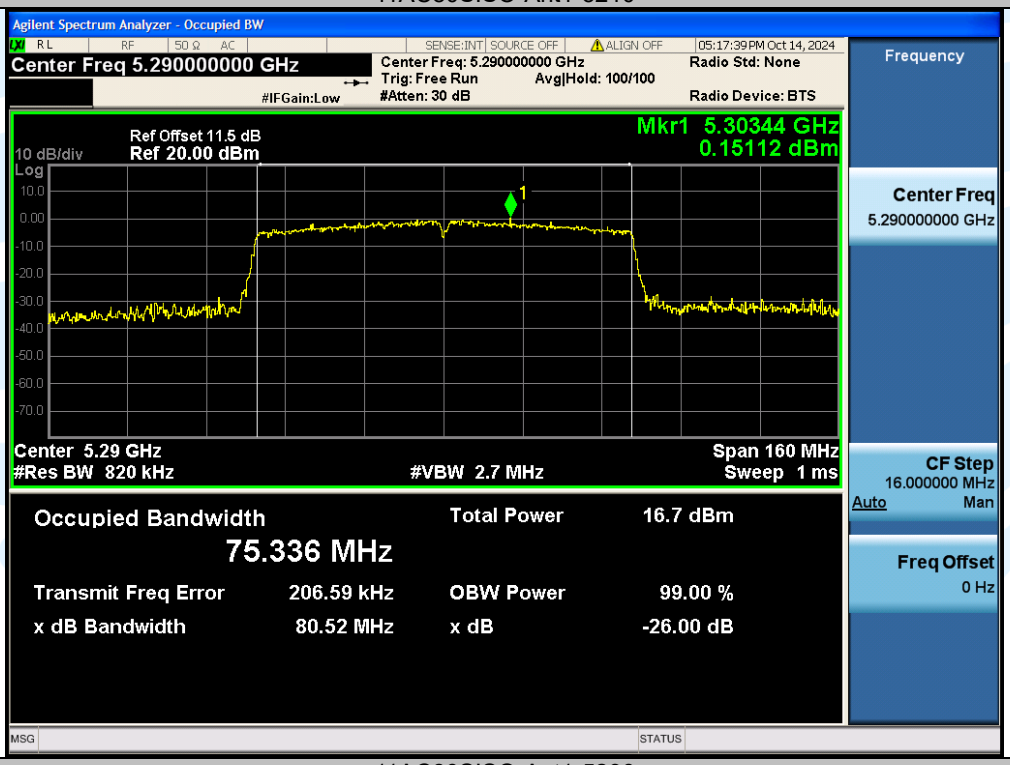


11AC40SISO-Ant1-5310



11AC80SISO-Ant1-5210



11AC80SISO-Ant1-5290

For U-NII-2C band

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]
11A	Ant1	5500	19.97
11A	Ant1	5580	19.49
11A	Ant1	5600	19.70
11A	Ant1	5700	19.83
11A	Ant1	5720	19.56
11A	Ant1	5720_UNII-2C	5725
11A	Ant1	5720_UNII-3	-5725
11N20SISO	Ant1	5500	20.28
11N20SISO	Ant1	5580	20.12
11N20SISO	Ant1	5600	20.17
11N20SISO	Ant1	5700	20.14
11N20SISO	Ant1	5720	20.04
11N20SISO	Ant1	5720_UNII-2C	5725
11N20SISO	Ant1	5720_UNII-3	-5725
11N40SISO	Ant1	5510	40.61
11N40SISO	Ant1	5550	39.99
11N40SISO	Ant1	5590	40.01
11N40SISO	Ant1	5670	40.62
11N40SISO	Ant1	5710	40.31
11N40SISO	Ant1	5710_UNII-2C	5725
11N40SISO	Ant1	5710_UNII-3	-5725
11AC20SISO	Ant1	5500	20.18
11AC20SISO	Ant1	5580	20.23
11AC20SISO	Ant1	5600	20.01
11AC20SISO	Ant1	5700	20.22
11AC20SISO	Ant1	5720	20.09
11AC20SISO	Ant1	5720_UNII-2C	5725
11AC20SISO	Ant1	5720_UNII-3	-5725
11AC40SISO	Ant1	5510	39.75
11AC40SISO	Ant1	5550	39.92
11AC40SISO	Ant1	5590	39.93
11AC40SISO	Ant1	5670	40.33
11AC40SISO	Ant1	5710	39.90
11AC40SISO	Ant1	5710_UNII-2C	5725
11AC40SISO	Ant1	5710_UNII-3	-5725
11AC80SISO	Ant1	5530	80.47
11AC80SISO	Ant1	5610	81.06
11AC80SISO	Ant1	5690	80.72
11AC80SISO	Ant1	5690_UNII-2C	5725
11AC80SISO	Ant1	5690_UNII-3	-5725