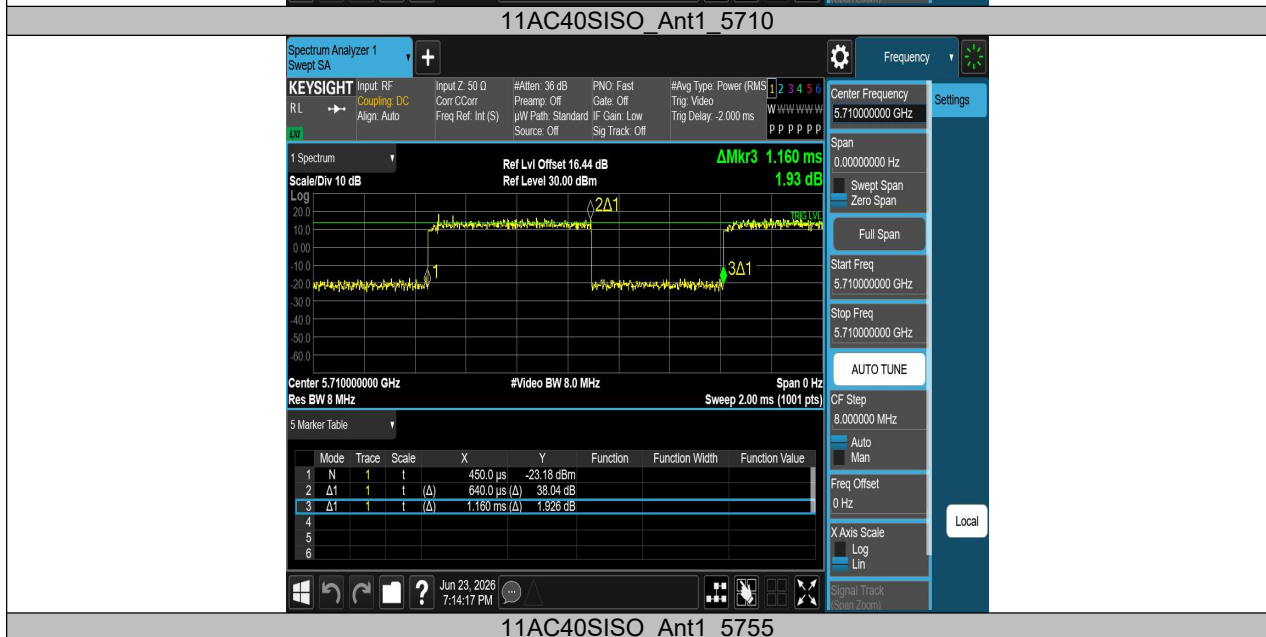


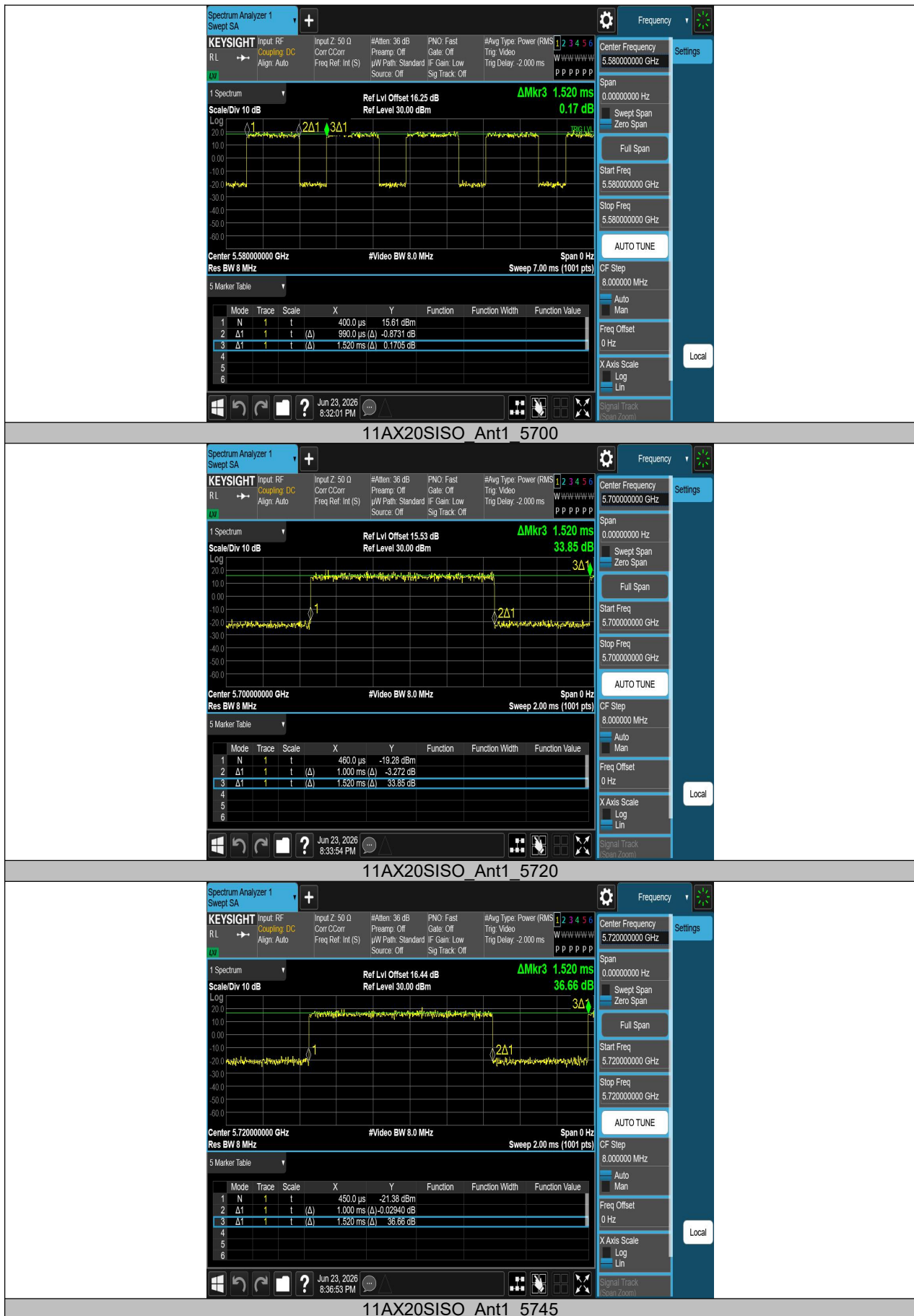


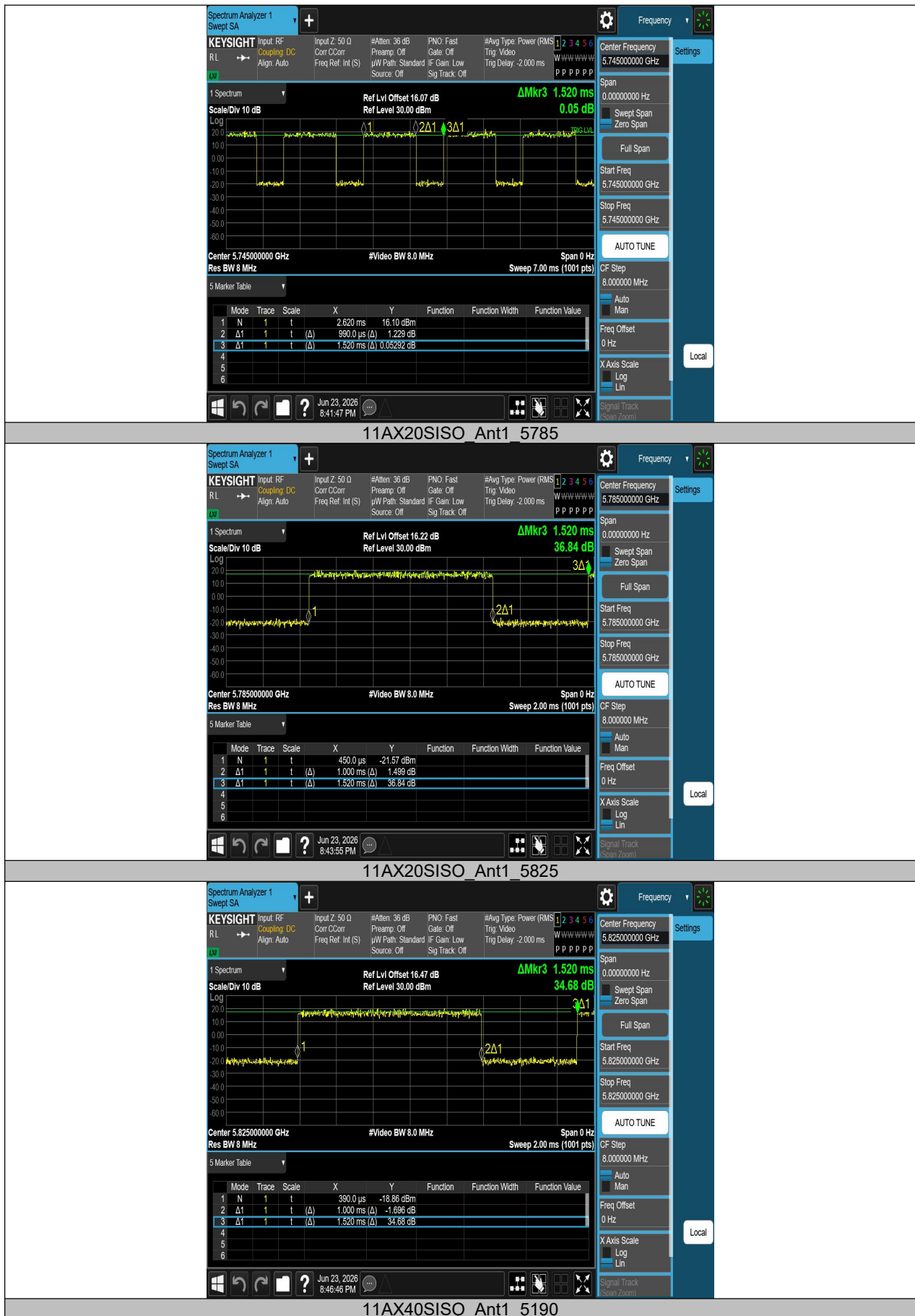




















9. 26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth

9.1. Block Diagram of Test Setup

Same as section 8.1

9.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150 - 5250
	26 dB Bandwidth	5250 - 5350
	26 dB Bandwidth	For FCC: 5470 - 5725 For IC: 5470 - 5600 5650 - 5725
	Minimum 500 kHz 6 dB Bandwidth	5725 - 5850
	For reporting purposes only.	For IC: 5150 ~ 5825

9.3. Test Procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3*RBW For 99 % Bandwidth: >3*RBW
Trace	Max hold
Sweep	Auto couple

(2) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB and 6 dB relative to the maximum level measured in the fundamental emission.

(3) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

9.4. Test Result

Test Mode	Ant.	Freq. (MHz)	OCB (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
11A	Ant1	5180	16.571	5171.6670	5188.2380	---	---
		5200	16.644	5191.6034	5208.2474	---	---
		5240	16.595	5231.6533	5248.2483	---	---
		5260	16.666	5251.6238	5268.2898	---	---
		5280	16.689	5271.6608	5288.3498	---	---
		5320	16.621	5311.6426	5328.2636	---	---
		5500	16.640	5491.6046	5508.2446	---	---
		5580	16.667	5571.6199	5588.2869	---	---
		5700	16.532	5691.6459	5708.1779	---	---
		5720	16.617	5711.6772	5728.2942	---	---
		5720_UNII-2C	13.323	5711.6772	5725	---	---
		5720_UNII-3	3.294	5725	5728.2942	---	---
		5745	16.644	5736.6553	5753.2993	---	---
		5785	16.690	5776.6492	5793.3392	---	---
		5825	16.655	5816.6017	5833.2567	---	---
11N20SISO	Ant1	5180	17.713	5171.0813	5188.7943	---	---
		5200	17.815	5191.0245	5208.8395	---	---
		5240	17.764	5231.0676	5248.8316	---	---
		5260	17.734	5251.0867	5268.8207	---	---

		5280	17.872	5271.0601	5288.9321	---	---
		5320	17.847	5311.0352	5328.8822	---	---
		5500	17.760	5491.1052	5508.8652	---	---
		5580	17.749	5571.0846	5588.8336	---	---
		5700	17.787	5691.0552	5708.8422	---	---
		5720	17.702	5711.1335	5728.8355	---	---
		5720 UNII-2C	13.867	5711.1335	5725	---	---
		5720 UNII-3	3.836	5725	5728.8355	---	---
		5745	17.766	5736.0735	5753.8395	---	---
		5785	17.824	5776.0283	5793.8523	---	---
		5825	17.847	5815.9989	5833.8459	---	---
11N40SISO	Ant1	5190	36.107	5171.9015	5208.0085	---	---
		5230	36.047	5211.8970	5247.9440	---	---
		5270	36.121	5251.9519	5288.0729	---	---
		5310	36.111	5291.8793	5327.9903	---	---
		5510	36.180	5491.9040	5528.0840	---	---
		5550	36.221	5531.7039	5567.9249	---	---
		5670	35.987	5651.9430	5687.9300	---	---
		5710	36.135	5691.8934	5728.0284	---	---
		5710 UNII-2C	33.107	5691.8934	5725	---	---
		5710 UNII-3	3.028	5725	5728.0284	---	---
		5755	36.142	5736.8886	5773.0306	---	---
		5795	36.128	5776.8701	5812.9981	---	---
11AC20SISO	Ant1	5180	17.754	5171.0958	5188.8498	---	---
		5200	17.714	5191.1064	5208.8204	---	---
		5240	17.849	5231.0521	5248.9011	---	---
		5260	17.826	5250.9990	5268.8250	---	---
		5280	17.706	5271.1000	5288.8060	---	---
		5320	17.759	5311.0754	5328.8344	---	---
		5500	17.850	5491.0047	5508.8547	---	---
		5580	17.753	5571.0904	5588.8434	---	---
		5700	17.686	5691.0722	5708.7582	---	---
		5720	17.774	5711.0591	5728.8331	---	---
		5720 UNII-2C	13.941	5711.0591	5725	---	---
		5720 UNII-3	3.833	5725	5728.8331	---	---
11AC40SISO	Ant1	5745	17.762	5736.0600	5753.8220	---	---
		5785	17.713	5776.0706	5793.7836	---	---
		5825	17.699	5816.0796	5833.7786	---	---
		5190	36.129	5171.8965	5208.0255	---	---
		5230	36.077	5211.8871	5247.9641	---	---
		5270	36.171	5251.9679	5288.1389	---	---
		5310	36.074	5291.9162	5327.9902	---	---
		5510	36.137	5491.8618	5527.9988	---	---
		5550	36.047	5531.8965	5567.9435	---	---
		5670	36.018	5651.9323	5687.9503	---	---
		5710	35.979	5691.9426	5727.9216	---	---
		5710 UNII-2C	33.057	5691.9426	5725	---	---
11AX20SISO	Ant1	5710 UNII-3	2.922	5725	5727.9216	---	---
		5755	36.085	5736.8955	5772.9805	---	---
		5795	36.253	5776.8812	5813.1342	---	---
		5180	18.990	5170.4559	5189.4459	---	---
		5200	18.852	5190.5299	5209.3819	---	---
		5240	18.811	5230.5481	5249.3591	---	---
		5260	18.781	5250.5807	5269.3617	---	---
		5280	18.832	5270.5380	5289.3700	---	---
		5320	18.912	5310.5373	5329.4493	---	---
		5500	18.745	5490.6568	5509.4018	---	---
		5580	18.866	5570.5076	5589.3736	---	---
		5700	18.774	5690.6077	5709.3817	---	---
11AX40SISO	Ant1	5720	18.815	5710.5779	5729.3929	---	---
		5720 UNII-2C	14.422	5710.5779	5725	---	---
		5720 UNII-3	4.393	5725	5729.3929	---	---
		5745	18.822	5735.5403	5754.3623	---	---
		5785	18.833	5775.5271	5794.3601	---	---
		5825	18.938	5815.4562	5834.3942	---	---
		5190	37.564	5171.1376	5208.7016	---	---
		5230	37.617	5211.1119	5248.7289	---	---

		5270	37.604	5251.0952	5288.6992	---	---
		5310	37.575	5291.1289	5328.7039	---	---
		5510	37.617	5491.1299	5528.7469	---	---
		5550	37.688	5531.1283	5568.8163	---	---
		5670	37.645	5651.1938	5688.8388	---	---
		5710	37.617	5691.1374	5728.7544	---	---
		5710 UNII-2C	33.863	5691.1374	5725	---	---
		5710 UNII-3	3.754	5725	5728.7544	---	---
		5755	37.515	5736.2280	5773.7430	---	---
		5795	37.661	5776.0869	5813.7479	---	---

Note: Offset=cable loss + Test system insertion loss

Test Mode	Ant.	Freq. (MHz)	26dB EBW (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
11A	Ant1	5180	20.080	5169.840	5189.920	---	---
		5200	19.600	5190.320	5209.920	---	---
		5240	19.920	5229.800	5249.720	---	---
		5260	20.520	5249.880	5270.400	---	---
		5280	20.160	5270.160	5290.320	---	---
		5320	20.520	5309.960	5330.480	---	---
		5500	20.120	5489.880	5510.000	---	---
		5580	20.240	5570.040	5590.280	---	---
		5700	21.160	5689.440	5710.600	---	---
		5720	19.600	5709.880	5729.480	---	---
		5720 UNII-2C	15.12	5709.880	5725	---	---
		5720 UNII-3	4.48	5725	5729.480	---	---
		5745	19.880	5735.080	5754.960	---	---
		5785	20.520	5774.680	5795.200	---	---
11N20SISO	Ant1	5825	21.680	5814.160	5835.840	---	---
		5180	21.760	5169.440	5191.200	---	---
		5200	20.600	5189.640	5210.240	---	---
		5240	21.080	5229.360	5250.440	---	---
		5260	21.040	5249.320	5270.360	---	---
		5280	21.600	5268.960	5290.560	---	---
		5320	21.840	5309.160	5331.000	---	---
		5500	21.440	5488.840	5510.280	---	---
		5580	21.640	5569.120	5590.760	---	---
		5700	20.760	5689.520	5710.280	---	---
		5720	21.920	5709.200	5731.120	---	---
		5720 UNII-2C	15.8	5709.200	5725	---	---
		5720 UNII-3	6.12	5725	5731.120	---	---
		5745	22.440	5733.680	5756.120	---	---
		5785	20.840	5774.720	5795.560	---	---
11N40SISO	Ant1	5825	21.320	5813.960	5835.280	---	---
		5190	40.000	5169.840	5209.840	---	---
		5230	40.320	5210.080	5250.400	---	---
		5270	40.640	5249.600	5290.240	---	---
		5310	42.400	5289.360	5331.760	---	---
		5510	41.280	5489.360	5530.640	---	---
		5550	40.720	5529.600	5570.320	---	---
		5670	40.960	5649.920	5690.880	---	---
		5710	40.880	5689.520	5730.400	---	---
		5710 UNII-2C	35.48	5689.520	5725	---	---
		5710 UNII-3	5.4	5725	5730.400	---	---
		5755	41.440	5733.880	5775.320	---	---
		5795	40.080	5775.080	5815.160	---	---
11AC20SISO	Ant1	5180	21.800	5168.680	5190.480	---	---
		5200	22.160	5189.040	5211.200	---	---
		5240	21.040	5229.160	5250.200	---	---
		5260	21.280	5249.360	5270.640	---	---
		5280	21.400	5269.240	5290.640	---	---
		5320	21.560	5309.160	5330.720	---	---
		5500	21.160	5489.320	5510.480	---	---
		5580	21.120	5569.520	5590.640	---	---
		5700	21.640	5688.840	5710.480	---	---
		5720	21.640	5709.160	5730.800	---	---