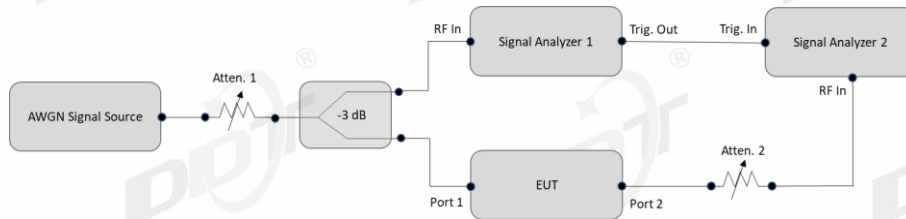


10. Contention Based Protocol

10.1. Block diagram of test setup



10.2. Limits

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)¹. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

10.3. Test procedure

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

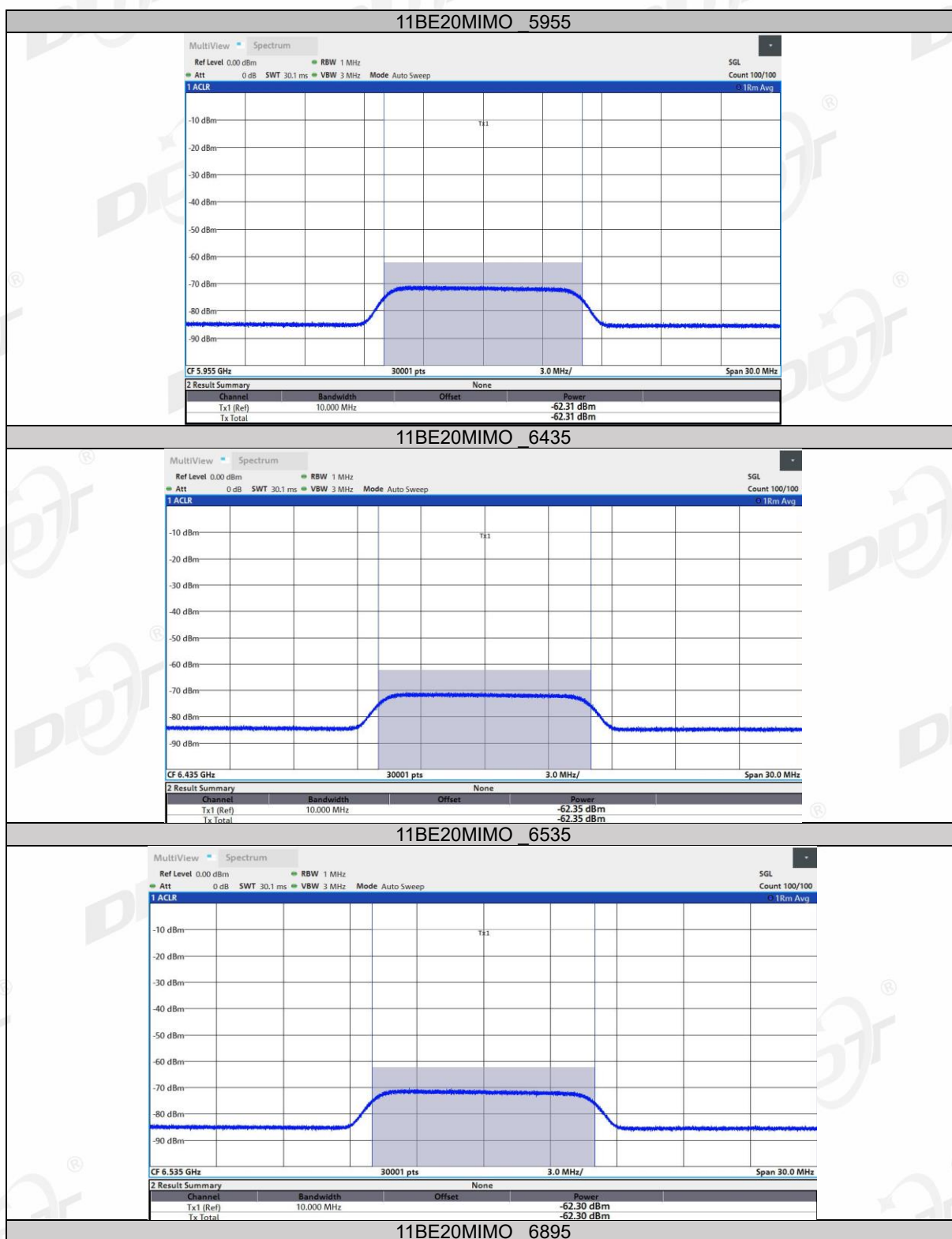
10.4. Test result

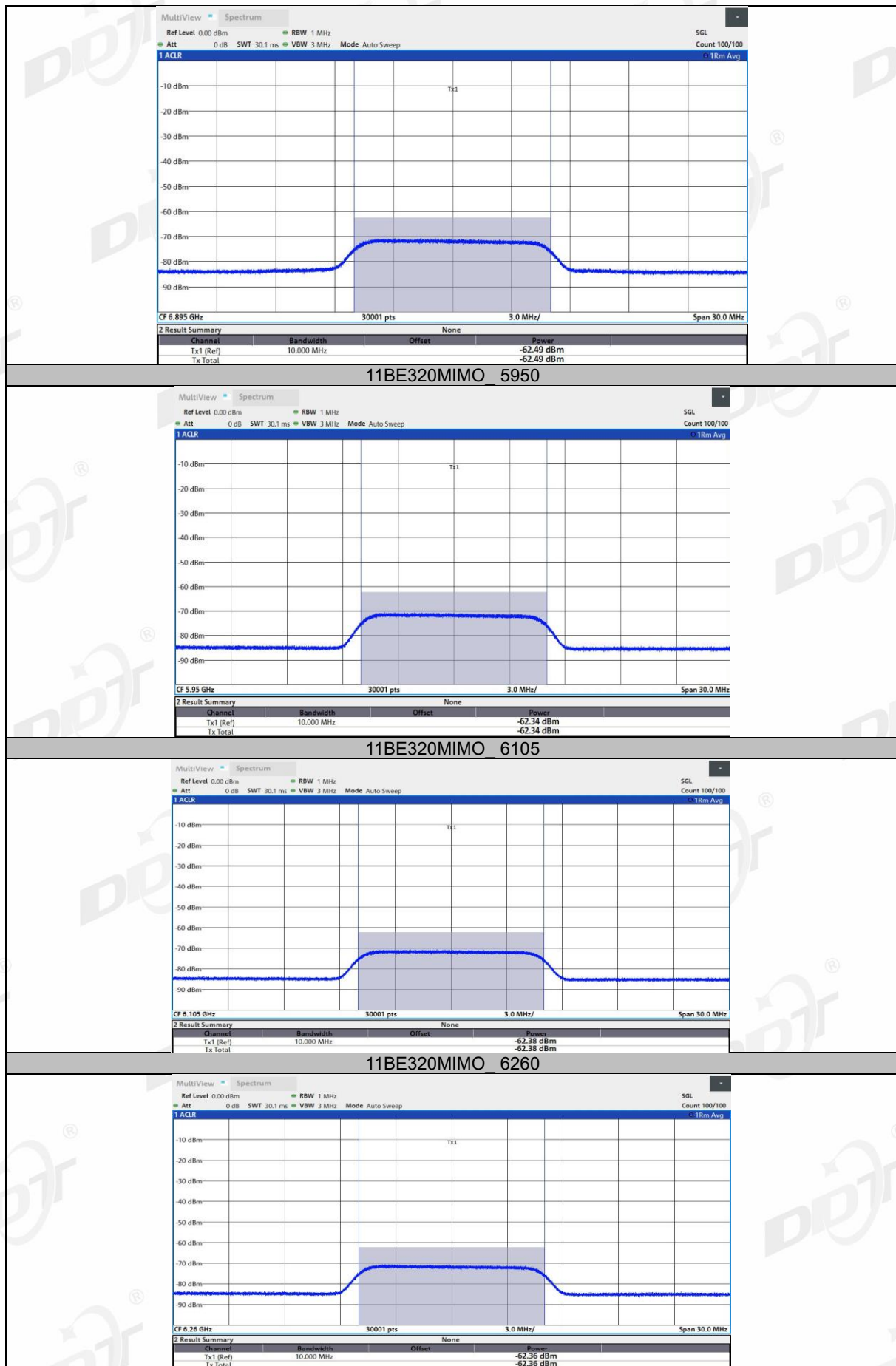
Contention Based protocol for 802.11be Bandwidth 20MHz												
UNII Band	Channel Number	EUT Frequency (MHz)	AWGN Frequency (MHz)	Injected AWGN Power (dBm)	Ant Gain (dBi)	Path loss (dB)	AWGN Power (dBm)	Detection Limit (dBm)	Number Detected [n]	Result [%]	Limit [%]	Verdict
5	1	5955	5955	-60.31	0	2	-62.31	-62	10	100	90	PASS
6	97	6435	6435	-60.35	0	2	-62.35	-62	10	100	90	PASS
7	117	6535	6535	-60.30	0	2	-62.30	-62	10	100	90	PASS
8	189	6895	6895	-60.49	0	2	-62.49	-62	10	100	90	PASS

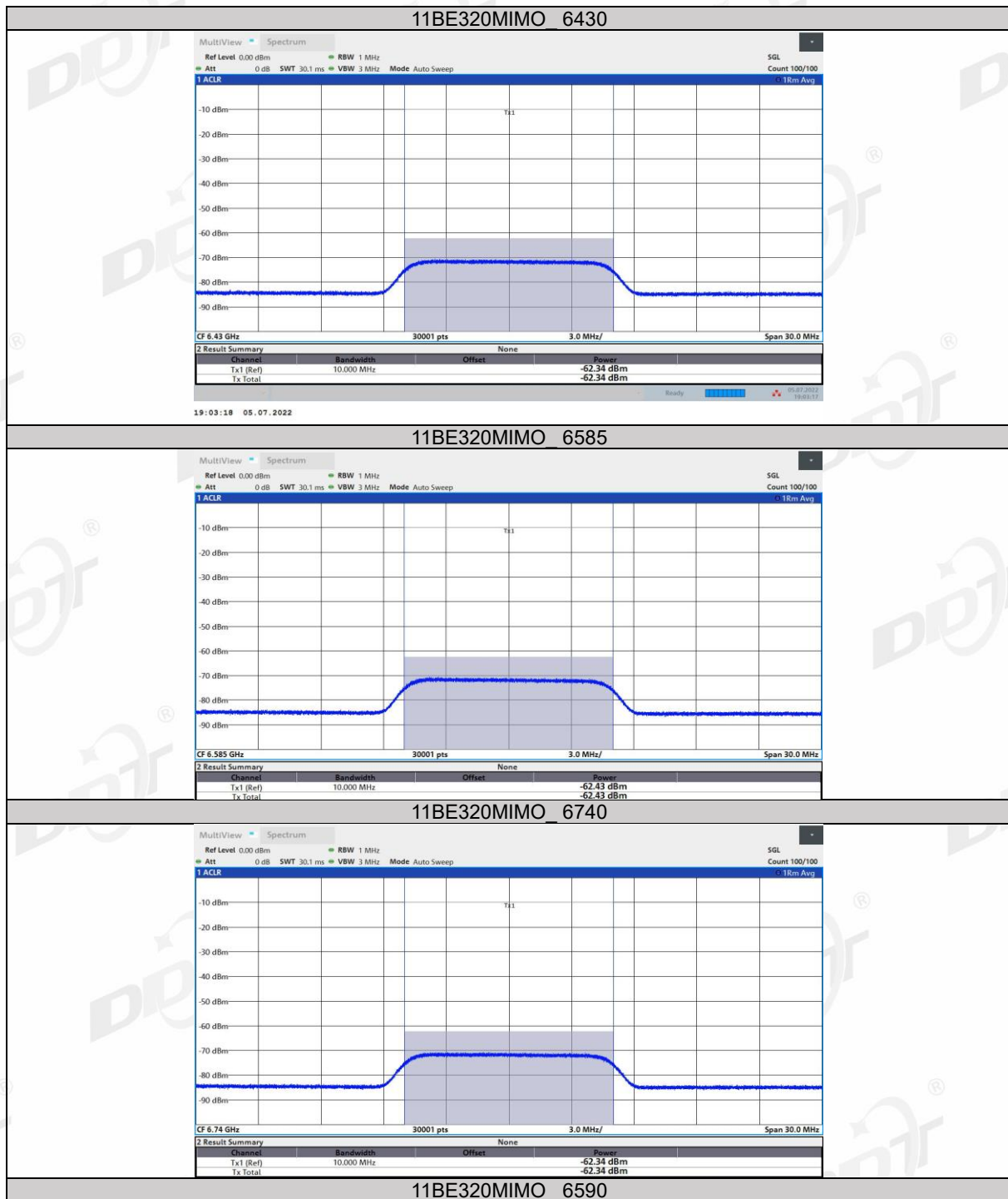
Contention Based protocol for 802.11be Bandwidth 320MHz												
UNII Band	Channel Number	EUT Frequency (MHz)	AWGN Frequency (MHz)	Injected AWGN Power (dBm)	Ant Gain (dBi)	Path loss (dB)	AWGN Power (dBm)	Detection Limit (dBm)	Number Detected [n]	Result [%]	Limit [%]	Verdict
5	31	6105	5950	-60.34	0	2	-62.34	-62	10	100	90	PASS
		6105	6105	-60.38	0	2	-62.38	-62	10	100	90	PASS
		6105	6260	-60.36	0	2	-62.36	-62	10	100	90	PASS
6	127	6585	6430	-60.34	0	2	-62.34	-62	10	100	90	PASS
		6585	6585	-60.43	0	2	-62.43	-62	10	100	90	PASS
		6585	6740	-60.34	0	2	-62.34	-62	10	100	90	PASS
7	159	6745	6590	-60.42	0	2	-62.42	-62	10	100	90	PASS
		6745	6745	-60.33	0	2	-62.33	-62	10	100	90	PASS
		6745	6900	-60.34	0	2	-62.34	-62	10	100	90	PASS
8	191	6905	6750	-60.34	0	2	-62.34	-62	10	100	90	PASS
		6905	6905	-60.36	0	2	-62.36	-62	10	100	90	PASS
		6905	7060	-60.32	0	2	-62.32	-62	10	100	90	PASS

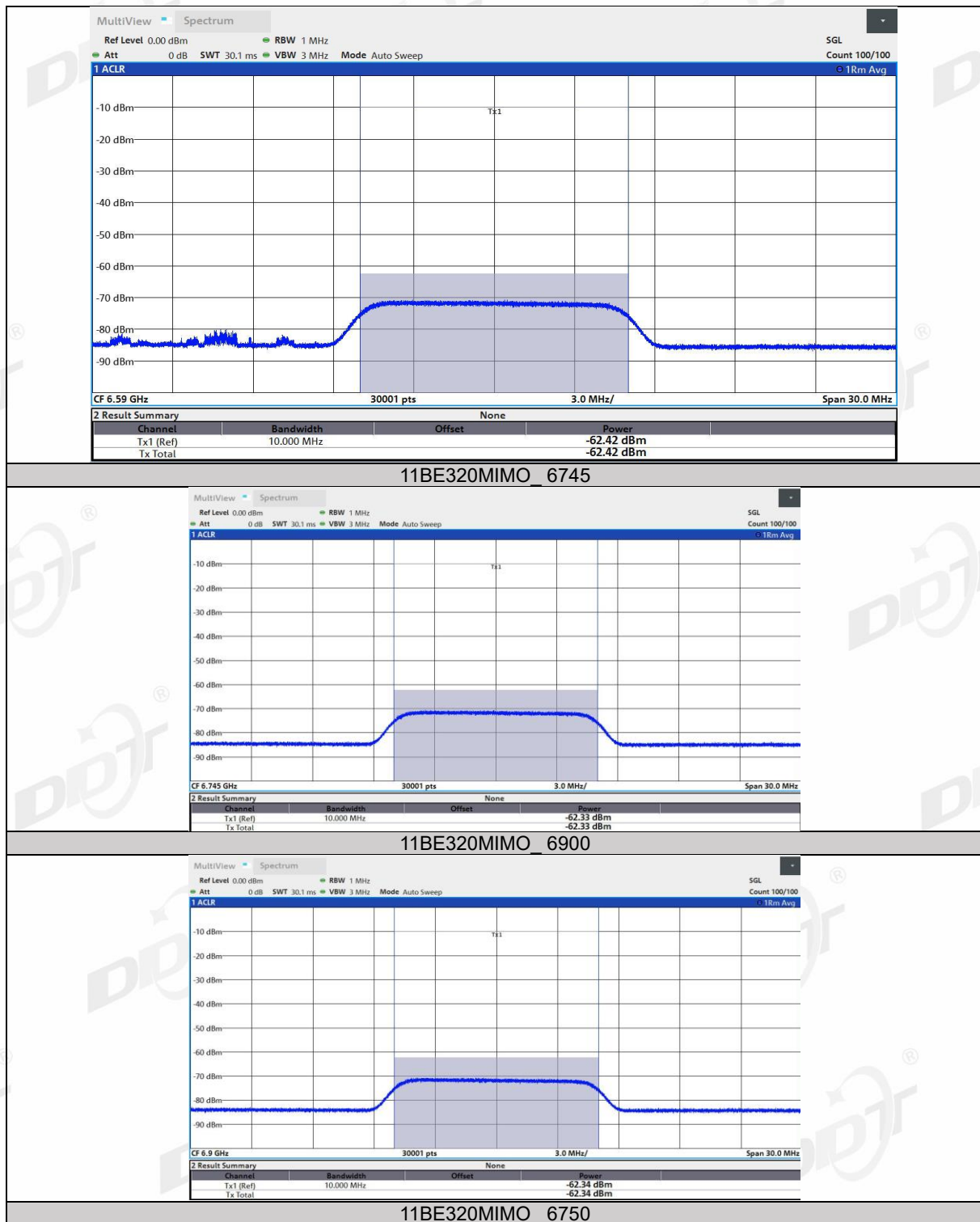
Note: AWGN Level = AWGN signal level used gain 0dBi(-62 dBm) will be more strict than calculate EUT gain

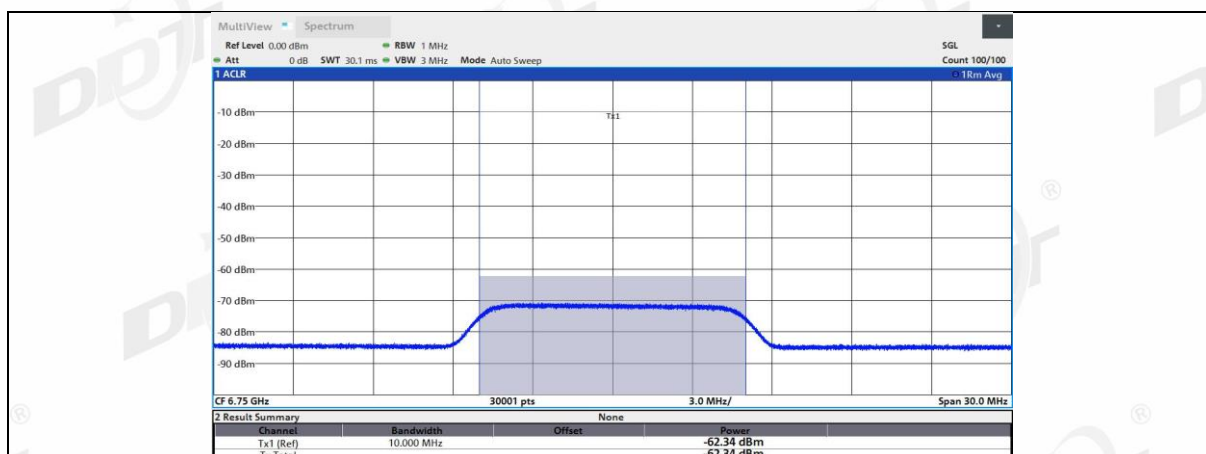
10.5. Test graphs



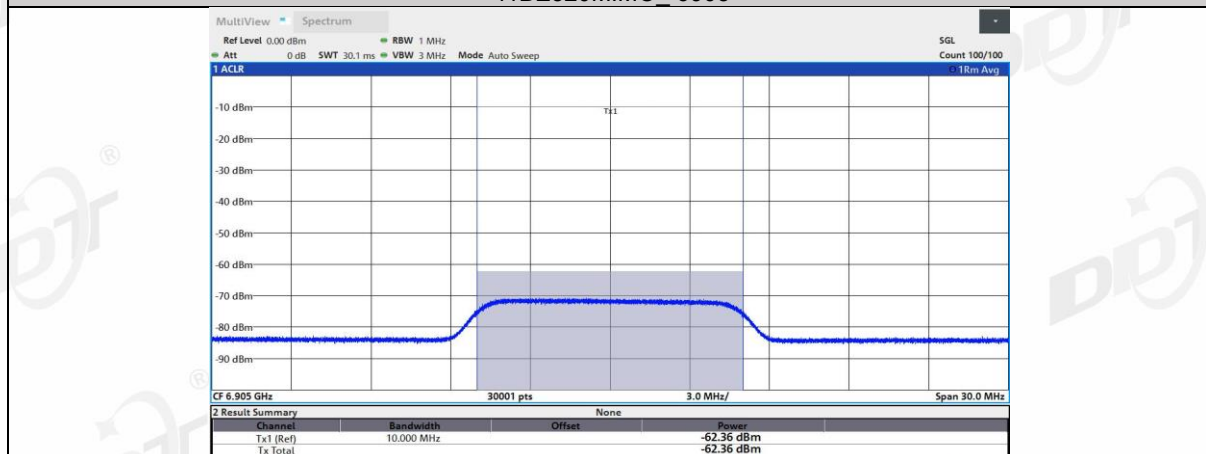




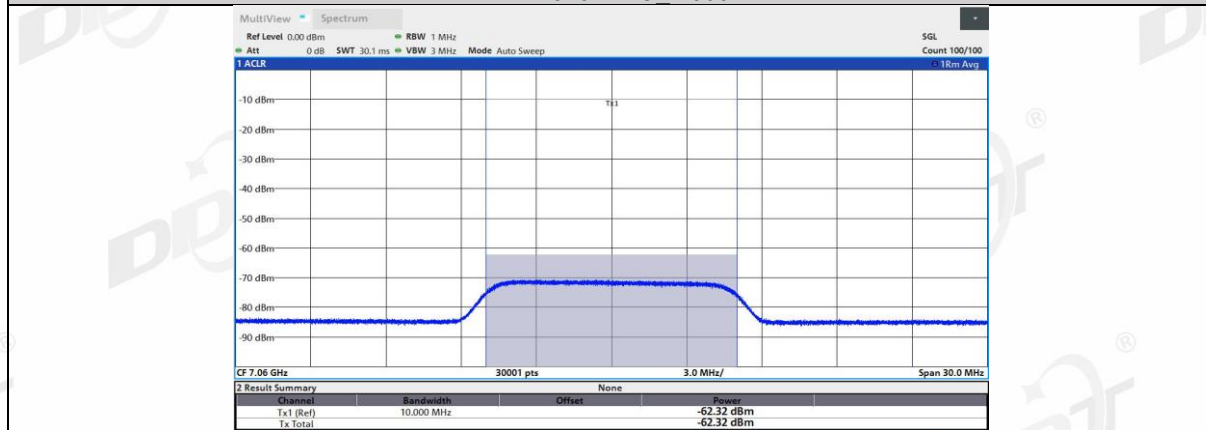


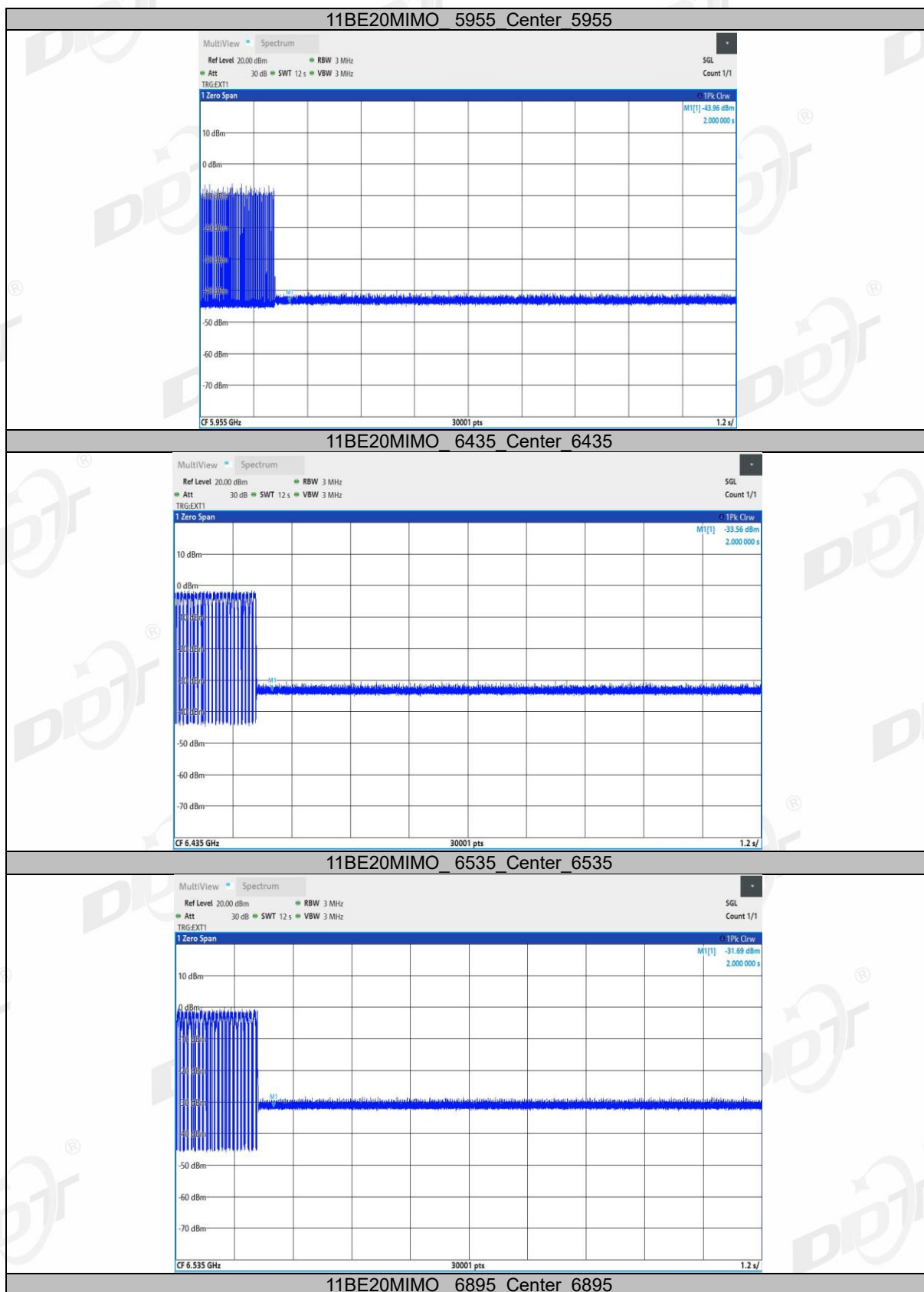


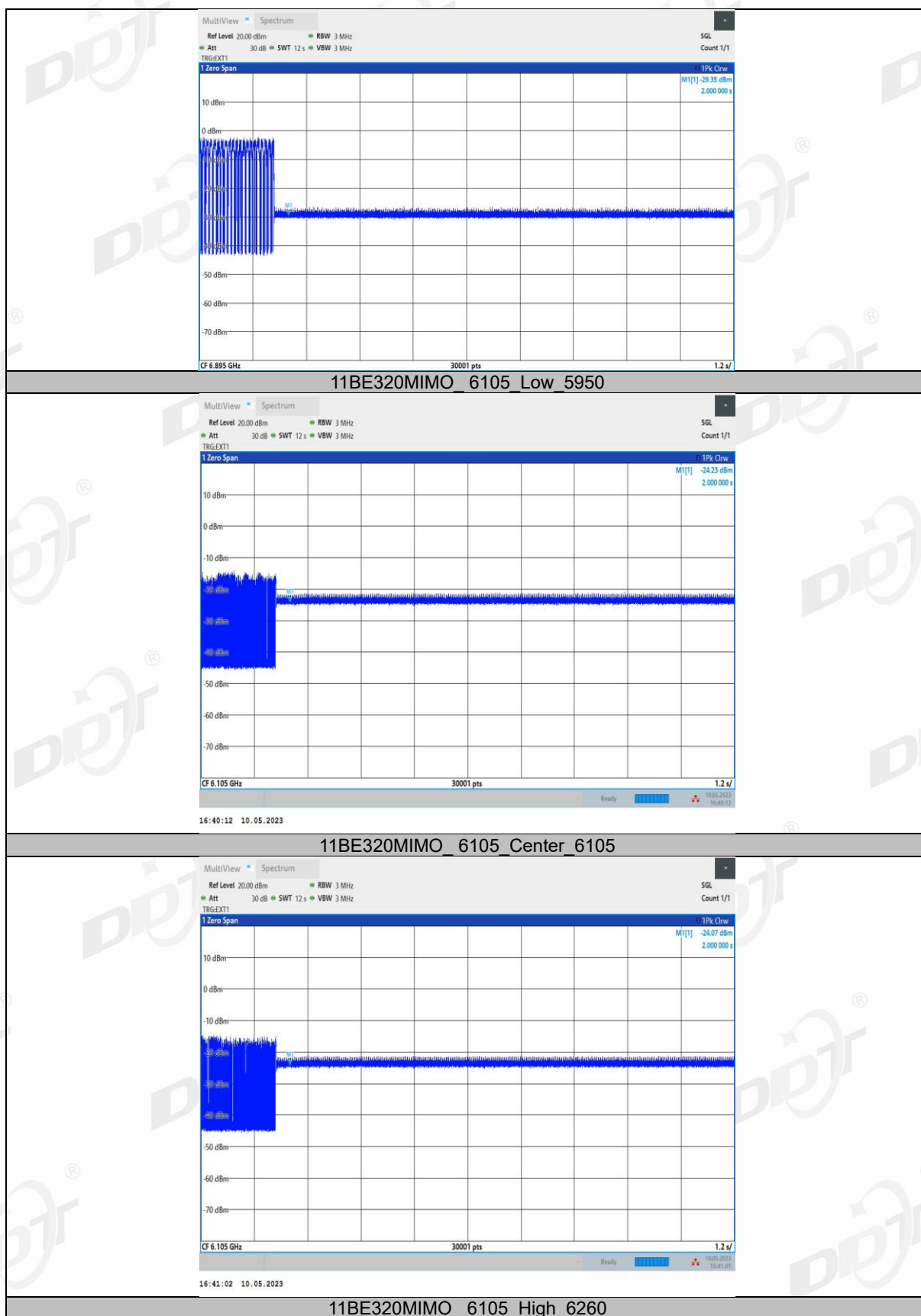
11BE320MIMO_6905

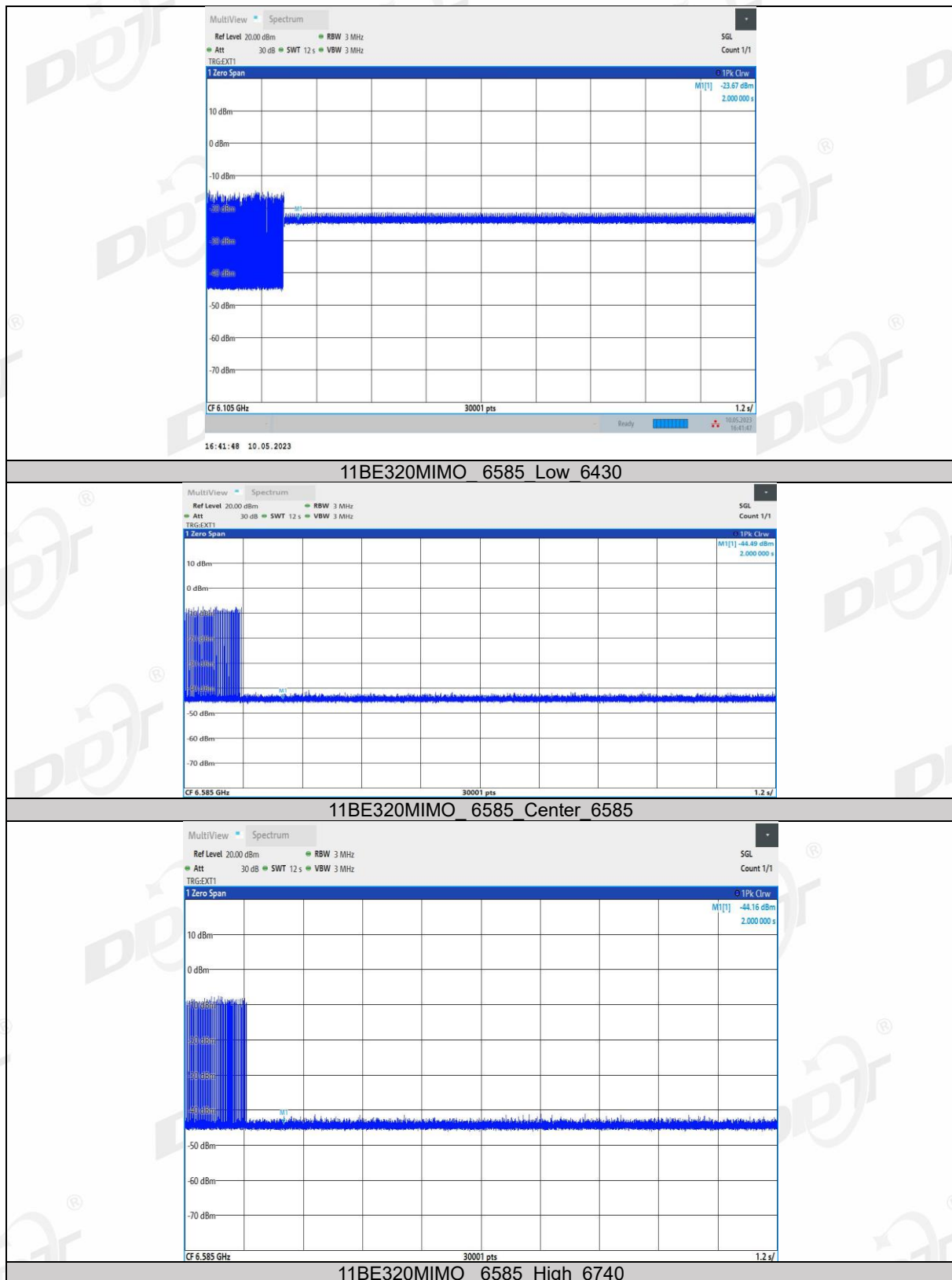


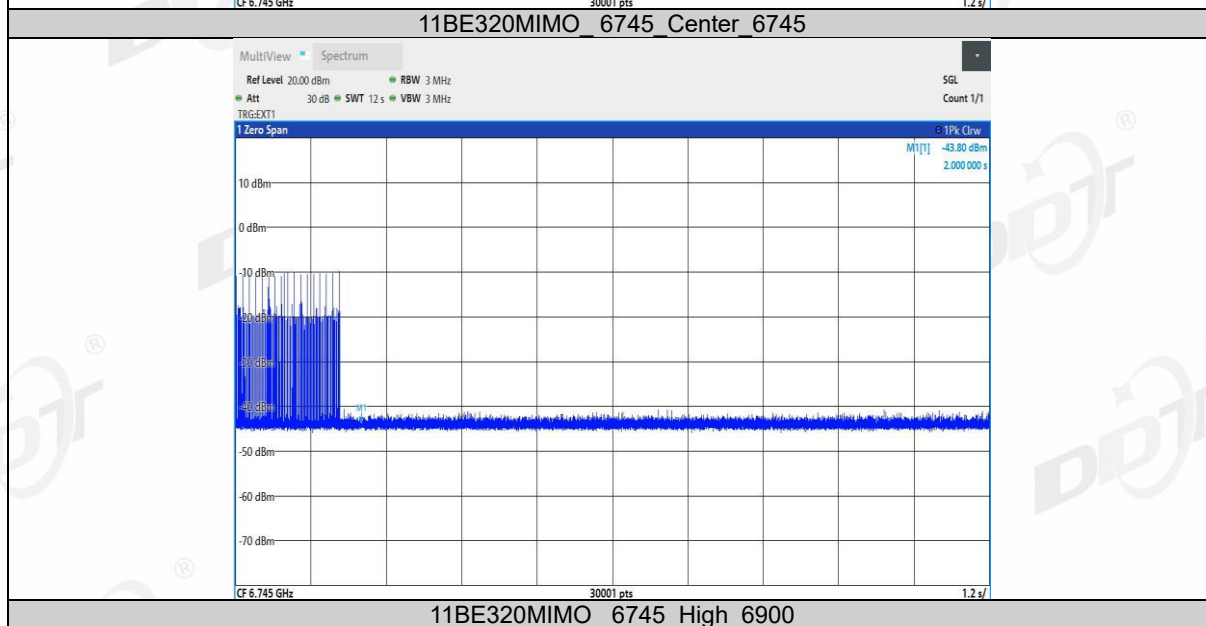
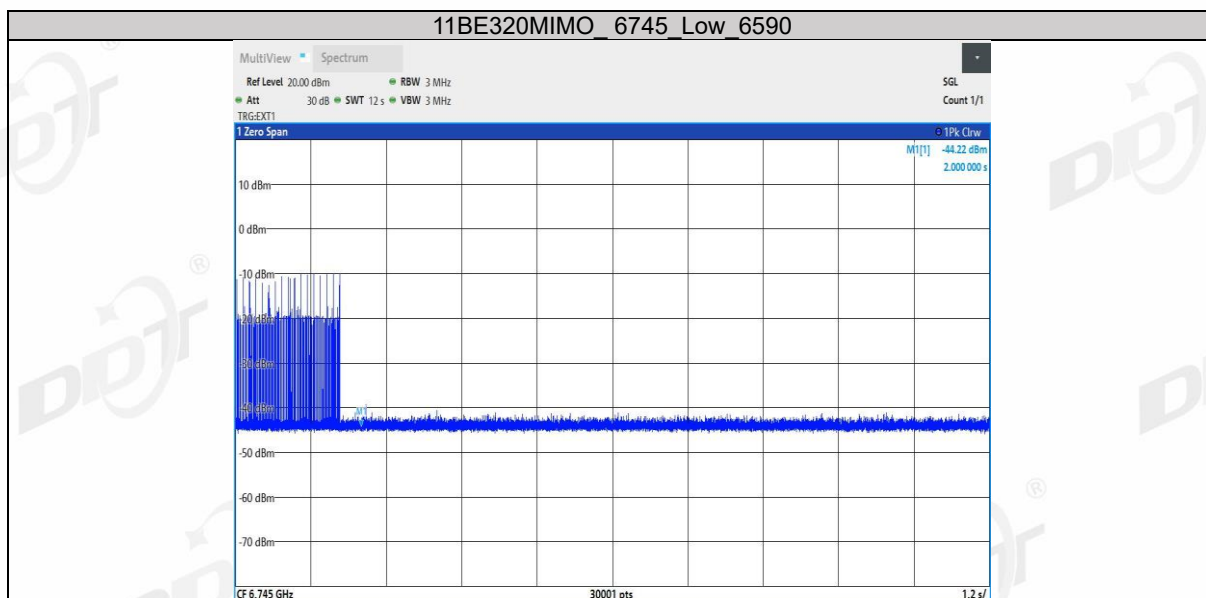
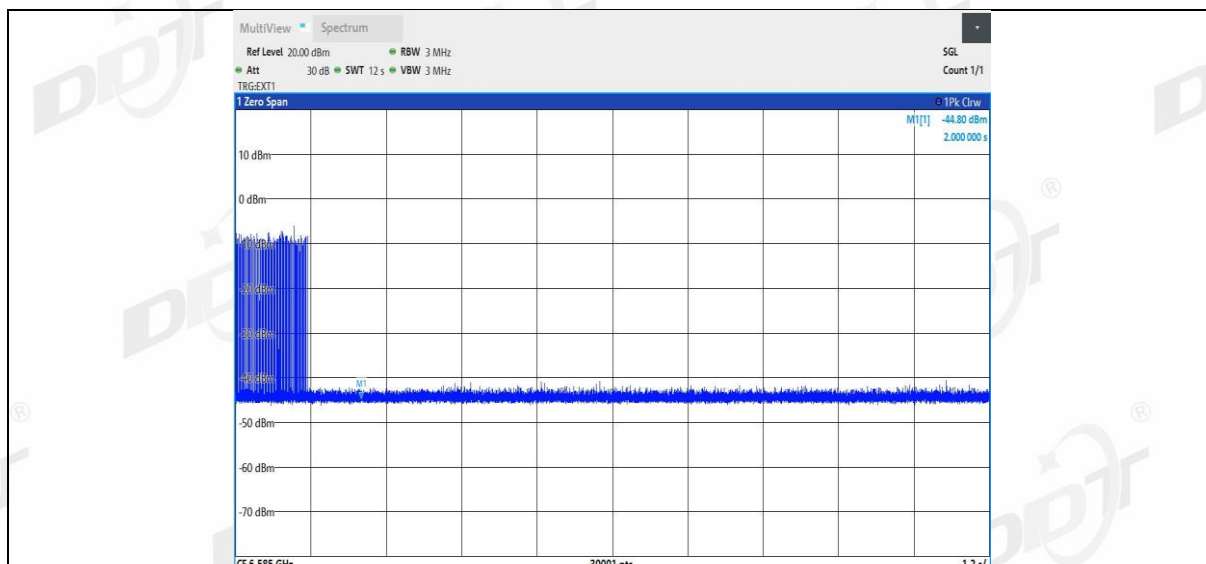
11BE320MIMO_7060

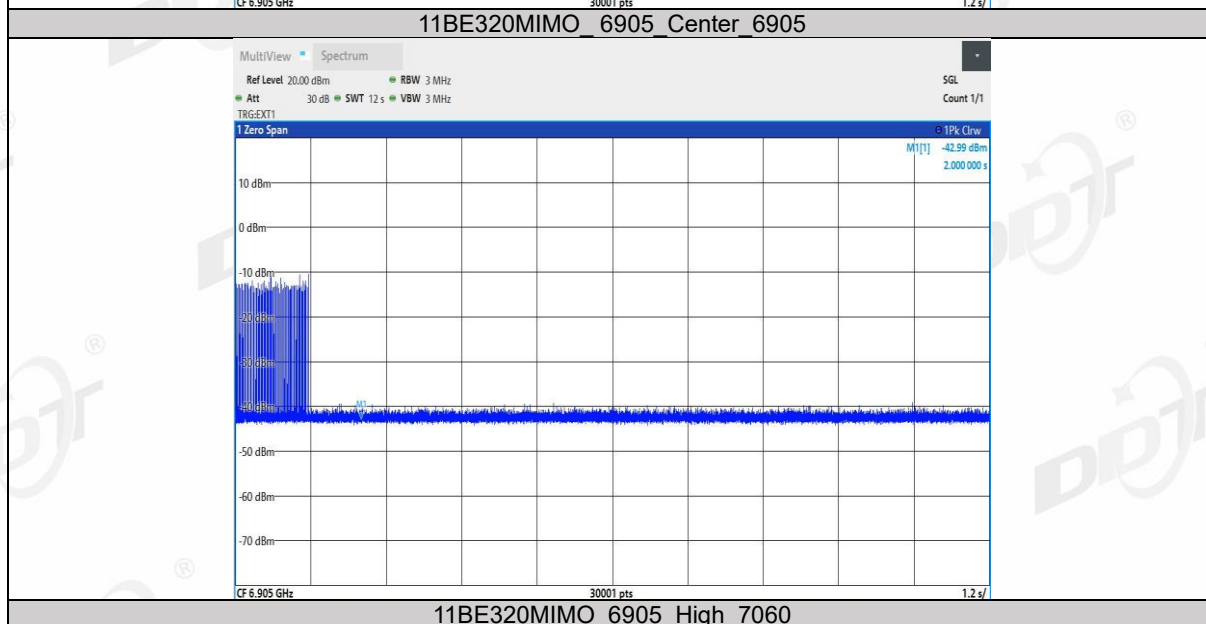
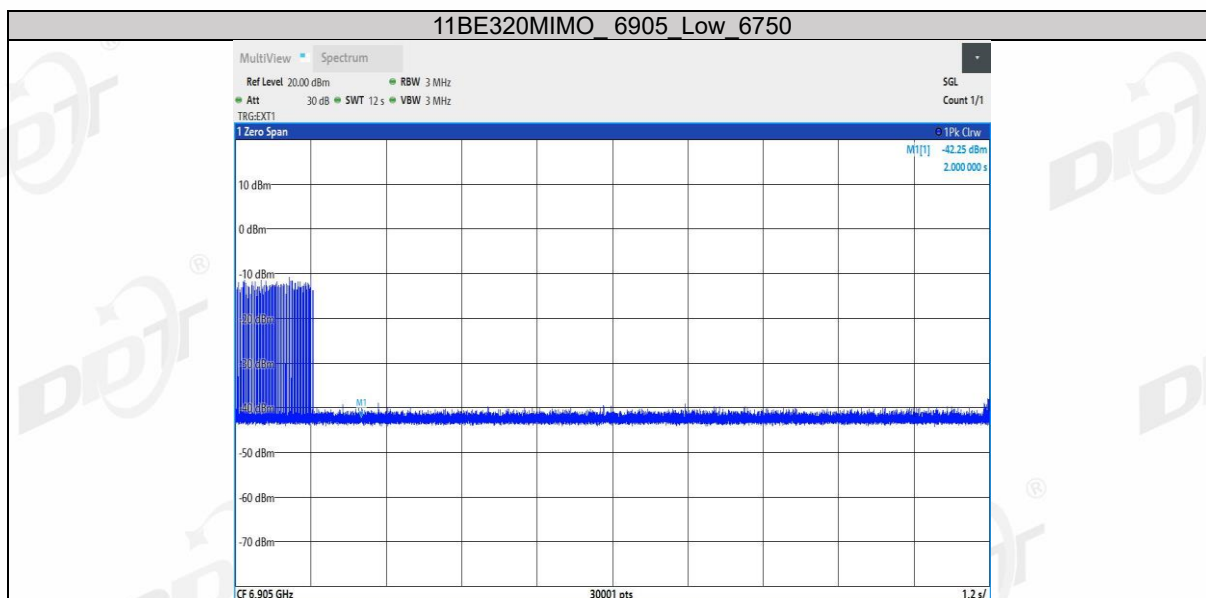
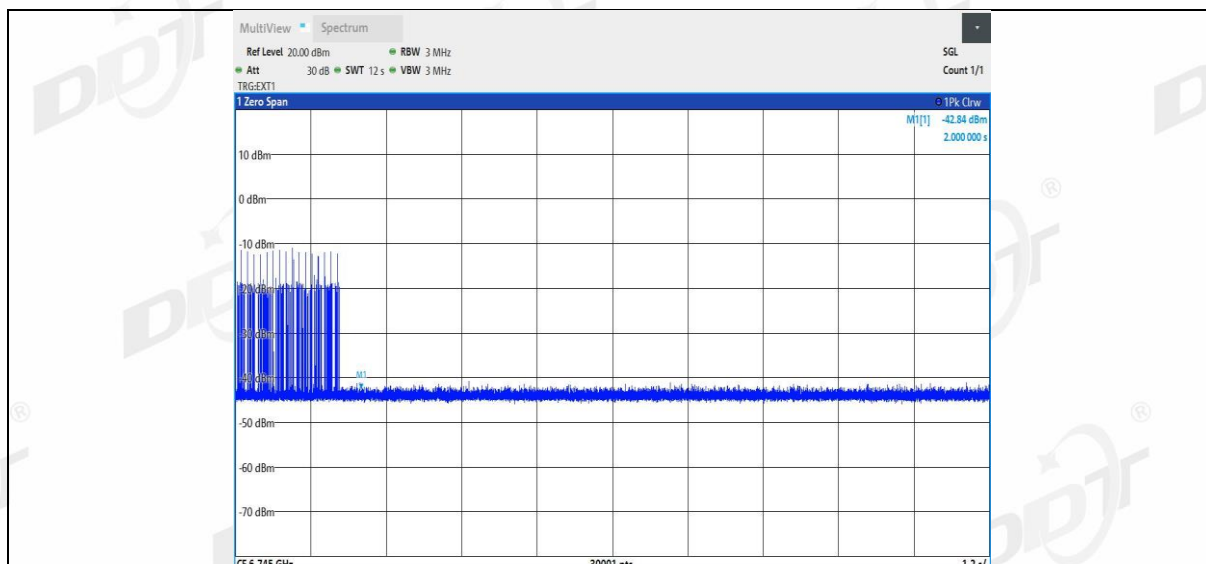




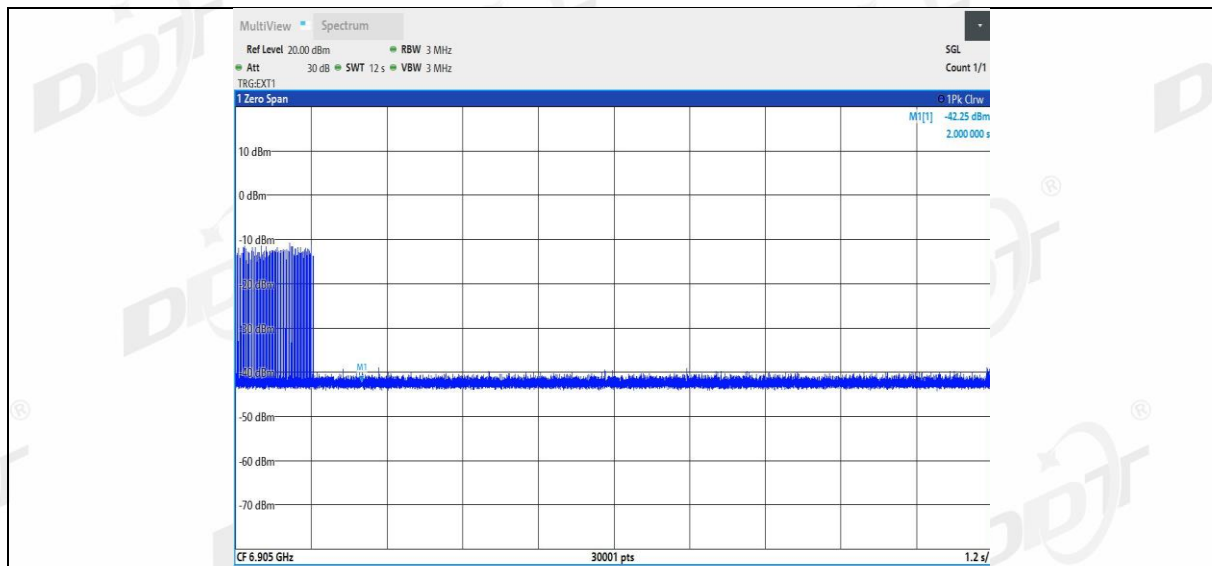








11BE320MIMO_6905_High_7060



11. Frequency Stability Measurement

11.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

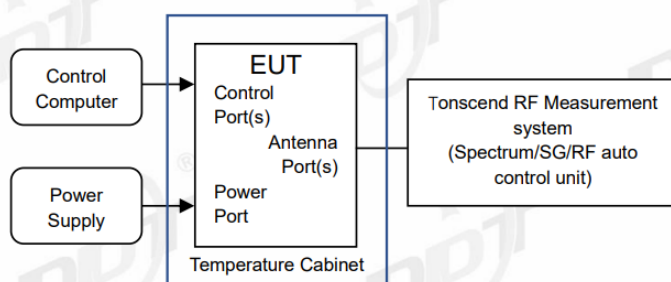
11.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

11.3. Test procedures

- (1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- (2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
- (3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

11.4. Test setup



11.5. Test result

Test Mode	Antenna	Frequency [MHz]	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11AX20 MIMO	Ant1	5955	LV	NT	-60000.00	-10.075567	20	PASS
			HV	NT	-60000.00	-10.075567	20	PASS
			NV	NT	-60000.00	-10.075567	20	PASS
	Ant2	5955	NV	NT	-60000.00	-10.075567	20	PASS
			LV	NT	-60000.00	-10.075567	20	PASS
			HV	NT	-80000.00	-13.434089	20	PASS
	Ant1	6175	NV	NT	-80000.00	-12.955466	20	PASS
			LV	NT	-60000.00	-9.716599	20	PASS
			HV	NT	-80000.00	-12.955466	20	PASS
	Ant2	6175	NV	NT	-60000.00	-9.716599	20	PASS
			LV	NT	-80000.00	-12.955466	20	PASS
			HV	NT	-80000.00	-12.955466	20	PASS
	Ant1	6415	LV	NT	-80000.00	-12.470772	20	PASS
			HV	NT	-80000.00	-12.470772	20	PASS
			NV	NT	-80000.00	-12.470772	20	PASS
	Ant2	6415	LV	NT	-80000.00	-12.470772	20	PASS
			HV	NT	-80000.00	-12.470772	20	PASS
			NV	NT	-80000.00	-12.470772	20	PASS
	Ant1	6435	NV	NT	-80000.00	-12.432012	20	PASS
			LV	NT	-60000.00	-9.324009	20	PASS
			HV	NT	-80000.00	-12.432012	20	PASS
	Ant2	6435	NV	NT	-80000.00	-12.432012	20	PASS
			LV	NT	-80000.00	-12.432012	20	PASS
			HV	NT	-80000.00	-12.432012	20	PASS
	Ant1	6475	HV	NT	-80000.00	-12.355212	20	PASS
			NV	NT	-80000.00	-12.355212	20	PASS
			LV	NT	-80000.00	-12.355212	20	PASS
	Ant2	6475	HV	NT	-100000.00	-15.444015	20	PASS
			LV	NT	-80000.00	-12.355212	20	PASS
			NV	NT	-80000.00	-12.355212	20	PASS
	Ant1	6515	NV	NT	-80000.00	-12.279355	20	PASS
			LV	NT	-80000.00	-12.279355	20	PASS
			HV	NT	-80000.00	-12.279355	20	PASS
	Ant2	6515	NV	NT	-80000.00	-12.279355	20	PASS
			LV	NT	-80000.00	-12.279355	20	PASS
			HV	NT	-80000.00	-12.279355	20	PASS
	Ant1	6535	NV	NT	-80000.00	-12.241775	20	PASS
			LV	NT	-80000.00	-12.241775	20	PASS
			HV	NT	-80000.00	-12.241775	20	PASS
	Ant2	6535	LV	NT	-80000.00	-12.241775	20	PASS
			HV	NT	-80000.00	-12.241775	20	PASS
			NV	NT	-80000.00	-12.241775	20	PASS
	Ant1	6695	LV	NT	-80000.00	-11.949216	20	PASS
			HV	NT	-80000.00	-11.949216	20	PASS
			NV	NT	-80000.00	-11.949216	20	PASS
	Ant2	6695	NV	NT	-80000.00	-11.949216	20	PASS
			LV	NT	-80000.00	-11.949216	20	PASS
			HV	NT	-80000.00	-11.949216	20	PASS
	Ant1	6855	NV	NT	-80000.00	-11.670314	20	PASS
			LV	NT	-80000.00	-11.670314	20	PASS
			HV	NT	-80000.00	-11.670314	20	PASS
	Ant2	6855	NV	NT	-80000.00	-11.670314	20	PASS
			LV	NT	-80000.00	-11.670314	20	PASS
			HV	NT	-80000.00	-11.670314	20	PASS
	Ant1	6875	NV	NT	-80000.00	-11.636364	20	PASS
			HV	NT	-80000.00	-11.636364	20	PASS
			LV	NT	-80000.00	-11.636364	20	PASS
	Ant2	6875	NV	NT	-80000.00	-11.636364	20	PASS

		Ant1	6895	LV	NT	-80000.00	-11.636364	20	PASS
				HV	NT	-80000.00	-11.636364	20	PASS
				NV	NT	-80000.00	-11.602611	20	PASS
				LV	NT	-80000.00	-11.602611	20	PASS
				HV	NT	-100000.00	-14.503263	20	PASS
		Ant2	6895	NV	NT	-80000.00	-11.602611	20	PASS
				LV	NT	-80000.00	-11.602611	20	PASS
				HV	NT	-80000.00	-11.602611	20	PASS
		Ant1	6995	HV	NT	-80000.00	-11.436741	20	PASS
				NV	NT	-100000.00	-14.295926	20	PASS
				LV	NT	-80000.00	-11.436741	20	PASS
		Ant2	6995	HV	NT	-100000.00	-14.295926	20	PASS
				NV	NT	-80000.00	-11.436741	20	PASS
				LV	NT	-80000.00	-11.436741	20	PASS
		Ant1	7115	NV	NT	-80000.00	-11.243851	20	PASS
				LV	NT	-80000.00	-11.243851	20	PASS
				HV	NT	-80000.00	-11.243851	20	PASS
		Ant2	7115	NV	NT	-100000.00	-14.054814	20	PASS
				LV	NT	-100000.00	-14.054814	20	PASS
				HV	NT	-100000.00	-14.054814	20	PASS
11AX40 MIMO		Ant1	5965	NV	NT	-80000.00	-13.411567	20	PASS
				LV	NT	-40000.00	-6.705784	20	PASS
				HV	NT	-80000.00	-13.411567	20	PASS
		Ant2	5965	LV	NT	-80000.00	-13.411567	20	PASS
				HV	NT	-80000.00	-13.411567	20	PASS
				NV	NT	-80000.00	-13.411567	20	PASS
		Ant1	6165	NV	NT	-120000.00	-19.464720	20	PASS
				LV	NT	-80000.00	-12.976480	20	PASS
				HV	NT	-80000.00	-12.976480	20	PASS
		Ant2	6165	NV	NT	-80000.00	-12.976480	20	PASS
				LV	NT	-80000.00	-12.976480	20	PASS
				HV	NT	-80000.00	-12.976480	20	PASS
		Ant1	6405	NV	NT	-80000.00	-12.490242	20	PASS
				LV	NT	-80000.00	-12.490242	20	PASS
				HV	NT	-80000.00	-12.490242	20	PASS
		Ant2	6405	NV	NT	-80000.00	-12.490242	20	PASS
				LV	NT	-80000.00	-12.490242	20	PASS
				HV	NT	-80000.00	-12.490242	20	PASS
		Ant1	6445	NV	NT	-120000.00	-18.619085	20	PASS
				LV	NT	-80000.00	-12.412723	20	PASS
				HV	NT	-80000.00	-12.412723	20	PASS
		Ant2	6445	NV	NT	-80000.00	-12.412723	20	PASS
				LV	NT	-80000.00	-12.412723	20	PASS
				HV	NT	-40000.00	-6.206362	20	PASS
		Ant1	6485	NV	NT	-120000.00	-18.504241	20	PASS
				LV	NT	-120000.00	-18.504241	20	PASS
				HV	NT	-80000.00	-12.336160	20	PASS
		Ant2	6485	NV	NT	-120000.00	-18.504241	20	PASS
				LV	NT	-80000.00	-12.336160	20	PASS
				HV	NT	-40000.00	-6.168080	20	PASS
		Ant1	6525	LV	NT	-80000.00	-12.260536	20	PASS
				NV	NT	-80000.00	-12.260536	20	PASS
				HV	NT	-80000.00	-12.260536	20	PASS
		Ant2	6525	LV	NT	-80000.00	-12.260536	20	PASS
				HV	NT	-120000.00	-18.390805	20	PASS
				NV	NT	-80000.00	-12.260536	20	PASS
		Ant1	6565	NV	NT	-80000.00	-12.185834	20	PASS
				LV	NT	-80000.00	-12.185834	20	PASS
				HV	NT	-80000.00	-12.185834	20	PASS
		Ant2	6565	NV	NT	-80000.00	-12.185834	20	PASS
				LV	NT	-80000.00	-12.185834	20	PASS
				HV	NT	-80000.00	-12.185834	20	PASS
		Ant1	6685	NV	NT	-40000.00	-5.983545	20	PASS
				LV	NT	-40000.00	-5.983545	20	PASS

11AX80 MIMO	Ant2	6685	HV	NT	-40000.00	-5.983545	20	PASS
			LV	NT	40000.00	5.983545	20	PASS
			HV	NT	-80000.00	-11.967091	20	PASS
			NV	NT	-80000.00	-11.967091	20	PASS
	Ant1	6845	LV	NT	-40000.00	-5.843682	20	PASS
			HV	NT	-80000.00	-11.687363	20	PASS
			NV	NT	-80000.00	-11.687363	20	PASS
	Ant2	6845	NV	NT	-80000.00	-11.687363	20	PASS
			LV	NT	-80000.00	-11.687363	20	PASS
			HV	NT	-80000.00	-11.687363	20	PASS
	Ant1	6885	NV	NT	-80000.00	-11.619463	20	PASS
			LV	NT	-40000.00	-5.809731	20	PASS
			HV	NT	-80000.00	-11.619463	20	PASS
	Ant2	6885	HV	NT	-80000.00	-11.619463	20	PASS
			NV	NT	-80000.00	-11.619463	20	PASS
			LV	NT	-80000.00	-11.619463	20	PASS
	Ant1	6925	HV	NT	-80000.00	-11.552347	20	PASS
			LV	NT	-80000.00	-11.552347	20	PASS
			NV	NT	-80000.00	-11.552347	20	PASS
	Ant2	6925	NV	NT	-120000.00	-17.328520	20	PASS
			LV	NT	-80000.00	-11.552347	20	PASS
			HV	NT	-120000.00	-17.328520	20	PASS
	Ant1	6965	NV	NT	-80000.00	-11.486001	20	PASS
			LV	NT	-80000.00	-11.486001	20	PASS
			HV	NT	-120000.00	-17.229002	20	PASS
	Ant2	6965	NV	NT	-120000.00	-17.229002	20	PASS
			LV	NT	-80000.00	-11.486001	20	PASS
			HV	NT	-80000.00	-11.486001	20	PASS
	Ant1	7085	LV	NT	-80000.00	-11.291461	20	PASS
			HV	NT	-40000.00	-5.645730	20	PASS
			NV	NT	-80000.00	-11.291461	20	PASS
	Ant2	7085	LV	NT	-80000.00	-11.291461	20	PASS
			HV	NT	-80000.00	-11.291461	20	PASS
			NV	NT	-120000.00	-16.937191	20	PASS
	Ant1	5985	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5985	NV	NT	-80000.00	-13.366750	20	PASS
			LV	NT	-80000.00	-13.366750	20	PASS
			HV	NT	-80000.00	-13.366750	20	PASS
	Ant1	6145	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	6145	NV	NT	-80000.00	-13.018714	20	PASS
			HV	NT	-80000.00	-13.018714	20	PASS
			LV	NT	-80000.00	-13.018714	20	PASS
	Ant1	6385	NV	NT	-80000.00	-12.529366	20	PASS
			LV	NT	-80000.00	-12.529366	20	PASS
			HV	NT	-80000.00	-12.529366	20	PASS
	Ant2	6385	NV	NT	-80000.00	-12.529366	20	PASS
			LV	NT	-80000.00	-12.529366	20	PASS
			HV	NT	-80000.00	-12.529366	20	PASS
	Ant1	6465	NV	NT	-80000.00	-12.374323	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	6465	HV	NT	-80000.00	-12.374323	20	PASS
			NV	NT	-80000.00	-12.374323	20	PASS
			LV	NT	-80000.00	-12.374323	20	PASS
	Ant1	6545	HV	NT	-80000.00	-12.223071	20	PASS
			NV	NT	-80000.00	-12.223071	20	PASS
			LV	NT	-80000.00	-12.223071	20	PASS
	Ant2	6545	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-12.223071	20	PASS

	Ant1	6625	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-12.075472	20	PASS
			HV	NT	-80000.00	-12.075472	20	PASS
	Ant2	6625	NV	NT	-80000.00	-12.075472	20	PASS
			LV	NT	-80000.00	-12.075472	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	6705	LV	NT	80000.00	11.931394	20	PASS
			HV	NT	-80000.00	-11.931394	20	PASS
			NV	NT	80000.00	11.931394	20	PASS
	Ant2	6705	NV	NT	-80000.00	-11.931394	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-11.931394	20	PASS
	Ant1	6785	NV	NT	-80000.00	-11.790715	20	PASS
			LV	NT	-80000.00	-11.790715	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	6785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-11.790715	20	PASS
			HV	NT	-80000.00	-11.790715	20	PASS
	Ant1	6865	NV	NT	-80000.00	-11.653314	20	PASS
			LV	NT	-80000.00	-11.653314	20	PASS
			HV	NT	-80000.00	-11.653314	20	PASS
	Ant2	6865	NV	NT	-80000.00	-11.653314	20	PASS
			LV	NT	-80000.00	-11.653314	20	PASS
			HV	NT	-80000.00	-11.653314	20	PASS
	Ant1	6945	NV	NT	-80000.00	-11.519078	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-11.519078	20	PASS
	Ant2	6945	NV	NT	-80000.00	-11.519078	20	PASS
			LV	NT	-80000.00	-11.519078	20	PASS
			HV	NT	-80000.00	-11.519078	20	PASS
	Ant1	7025	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-11.387900	20	PASS
			HV	NT	-80000.00	-11.387900	20	PASS
	Ant2	7025	HV	NT	0.00	0.000000	20	PASS
			NV	NT	-80000.00	-11.387900	20	PASS
			LV	NT	-80000.00	-11.387900	20	PASS

Temperature								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20MIMO	Ant1	5955	NV	0	-20000.00	-3.358522	20	PASS
			NV	10	-20000.00	-3.358522	20	PASS
			NV	20	-20000.00	-3.358522	20	PASS
			NV	30	-20000.00	-3.358522	20	PASS
			NV	40	-20000.00	-3.358522	20	PASS
	Ant2	5955	NV	0	-20000.00	-3.358522	20	PASS
			NV	10	-20000.00	-3.358522	20	PASS
			NV	20	-20000.00	-3.358522	20	PASS
			NV	30	-20000.00	-3.358522	20	PASS
			NV	40	-20000.00	-3.358522	20	PASS
	Ant3	5955	NV	0	-20000.00	-3.358522	20	PASS
			NV	40	-20000.00	-3.358522	20	PASS
			NV	30	-20000.00	-3.358522	20	PASS
			NV	10	-20000.00	-3.358522	20	PASS
			NV	20	-20000.00	-3.358522	20	PASS
	Ant4	5955	NV	0	-20000.00	-3.358522	20	PASS
			NV	10	-20000.00	-3.358522	20	PASS
			NV	20	-20000.00	-3.358522	20	PASS
			NV	30	-20000.00	-3.358522	20	PASS
			NV	40	-20000.00	-3.358522	20	PASS
	Ant1	6175	NV	30	-20000.00	-3.238866	20	PASS
			NV	40	-20000.00	-3.238866	20	PASS
			NV	0	-20000.00	-3.238866	20	PASS
			NV	10	-20000.00	-3.238866	20	PASS

	Ant2	6175	NV	20	-20000.00	-3.238866	20	PASS
			NV	40	-20000.00	-3.238866	20	PASS
			NV	30	-20000.00	-3.238866	20	PASS
			NV	20	-20000.00	-3.238866	20	PASS
			NV	10	-20000.00	-3.238866	20	PASS
			NV	0	-20000.00	-3.238866	20	PASS
	Ant3	6175	NV	40	-20000.00	-3.238866	20	PASS
			NV	10	-20000.00	-3.238866	20	PASS
			NV	30	-20000.00	-3.238866	20	PASS
			NV	20	-20000.00	-3.238866	20	PASS
			NV	0	-20000.00	-3.238866	20	PASS
			NV	0	-20000.00	-3.238866	20	PASS
	Ant4	6175	NV	10	-20000.00	-3.238866	20	PASS
			NV	20	-20000.00	-3.238866	20	PASS
			NV	30	-20000.00	-3.238866	20	PASS
			NV	40	-20000.00	-3.238866	20	PASS
			NV	40	-20000.00	-3.117693	20	PASS
			NV	0	-20000.00	-3.117693	20	PASS
	Ant1	6415	NV	10	-20000.00	-3.117693	20	PASS
			NV	20	-20000.00	-3.117693	20	PASS
			NV	30	-20000.00	-3.117693	20	PASS
			NV	20	-20000.00	-3.117693	20	PASS
			NV	30	-20000.00	-3.117693	20	PASS
			NV	0	-20000.00	-3.117693	20	PASS
	Ant2	6415	NV	40	-20000.00	-3.117693	20	PASS
			NV	10	-20000.00	-3.117693	20	PASS
			NV	30	-20000.00	-3.117693	20	PASS
			NV	40	-20000.00	-3.117693	20	PASS
			NV	0	-20000.00	-3.117693	20	PASS
			NV	10	-20000.00	-3.117693	20	PASS
	Ant3	6415	NV	20	-20000.00	-3.117693	20	PASS
			NV	30	-20000.00	-3.117693	20	PASS
			NV	40	-20000.00	-3.117693	20	PASS
			NV	20	-20000.00	-3.117693	20	PASS
			NV	30	-20000.00	-3.117693	20	PASS
			NV	40	-20000.00	-3.117693	20	PASS
	Ant4	6415	NV	20	-20000.00	-3.117693	20	PASS
			NV	10	-20000.00	-3.117693	20	PASS
			NV	30	-20000.00	-3.117693	20	PASS
			NV	40	-20000.00	-3.117693	20	PASS
			NV	0	-20000.00	-3.117693	20	PASS
			NV	0	-20000.00	-3.108003	20	PASS
	Ant1	6435	NV	10	-20000.00	-3.108003	20	PASS
			NV	20	-20000.00	-3.108003	20	PASS
			NV	30	-20000.00	-3.108003	20	PASS
			NV	40	-20000.00	-3.108003	20	PASS
			NV	20	-20000.00	-3.108003	20	PASS
			NV	30	-20000.00	-3.108003	20	PASS
	Ant2	6435	NV	10	-20000.00	-3.108003	20	PASS
			NV	0	-20000.00	-3.108003	20	PASS
			NV	40	-20000.00	-3.108003	20	PASS
			NV	30	-20000.00	-3.108003	20	PASS
			NV	20	-20000.00	-3.108003	20	PASS
			NV	10	-20000.00	-3.108003	20	PASS
	Ant3	6435	NV	0	-20000.00	-3.108003	20	PASS
			NV	40	-20000.00	-3.108003	20	PASS
			NV	30	-20000.00	-3.108003	20	PASS
			NV	20	-20000.00	-3.108003	20	PASS
			NV	10	-20000.00	-3.108003	20	PASS
			NV	0	-20000.00	-3.108003	20	PASS
	Ant4	6435	NV	30	-20000.00	-3.108003	20	PASS
			NV	20	-20000.00	-3.108003	20	PASS
			NV	10	-20000.00	-3.108003	20	PASS
			NV	0	-20000.00	-3.108003	20	PASS
			NV	40	-20000.00	-3.108003	20	PASS
			NV	0	-20000.00	-3.088803	20	PASS
	Ant1	6475	NV	40	-20000.00	-3.088803	20	PASS
			NV	30	-20000.00	-3.088803	20	PASS
			NV	10	-20000.00	-3.088803	20	PASS
			NV	20	-20000.00	-3.088803	20	PASS
			NV	10	-20000.00	-3.088803	20	PASS
			NV	20	-20000.00	-3.088803	20	PASS
	Ant2	6475	NV	10	-20000.00	-3.088803	20	PASS
			NV	20	-20000.00	-3.088803	20	PASS
			NV	30	-20000.00	-3.088803	20	PASS

	Ant3	6475	NV	40	-20000.00	-3.088803	20	PASS
			NV	0	-20000.00	-3.088803	20	PASS
			NV	10	-20000.00	-3.088803	20	PASS
			NV	30	-20000.00	-3.088803	20	PASS
			NV	0	-20000.00	-3.088803	20	PASS
			NV	20	-20000.00	-3.088803	20	PASS
	Ant4	6475	NV	40	-20000.00	-3.088803	20	PASS
			NV	0	-20000.00	-3.088803	20	PASS
			NV	10	-20000.00	-3.088803	20	PASS
			NV	20	-20000.00	-3.088803	20	PASS
			NV	30	-20000.00	-3.088803	20	PASS
			NV	40	-20000.00	-3.088803	20	PASS
	Ant1	6515	NV	10	-20000.00	-3.069839	20	PASS
			NV	40	-20000.00	-3.069839	20	PASS
			NV	0	-20000.00	-3.069839	20	PASS
			NV	20	-20000.00	-3.069839	20	PASS
			NV	30	-20000.00	-3.069839	20	PASS
			NV	40	-20000.00	-3.069839	20	PASS
	Ant2	6515	NV	0	-20000.00	-3.069839	20	PASS
			NV	10	-20000.00	-3.069839	20	PASS
			NV	20	-20000.00	-3.069839	20	PASS
			NV	30	-20000.00	-3.069839	20	PASS
			NV	40	-20000.00	-3.069839	20	PASS
			NV	0	-20000.00	-3.069839	20	PASS
	Ant3	6515	NV	40	-20000.00	-3.069839	20	PASS
			NV	0	-20000.00	-3.069839	20	PASS
			NV	30	-20000.00	-3.069839	20	PASS
			NV	10	-20000.00	-3.069839	20	PASS
			NV	20	-20000.00	-3.069839	20	PASS
			NV	40	-20000.00	-3.069839	20	PASS
	Ant4	6515	NV	40	-20000.00	-3.069839	20	PASS
			NV	0	-20000.00	-3.069839	20	PASS
			NV	10	-20000.00	-3.069839	20	PASS
			NV	20	-20000.00	-3.069839	20	PASS
			NV	30	-20000.00	-3.069839	20	PASS
			NV	40	-20000.00	-3.069839	20	PASS
	Ant1	6535	NV	0	-20000.00	-3.060444	20	PASS
			NV	20	-20000.00	-3.060444	20	PASS
			NV	30	-20000.00	-3.060444	20	PASS
			NV	40	-20000.00	-3.060444	20	PASS
			NV	10	-20000.00	-3.060444	20	PASS
			NV	40	-20000.00	-3.060444	20	PASS
	Ant2	6535	NV	20	-20000.00	-3.060444	20	PASS
			NV	30	-20000.00	-3.060444	20	PASS
			NV	10	-20000.00	-3.060444	20	PASS
			NV	0	-20000.00	-3.060444	20	PASS
			NV	40	-20000.00	-3.060444	20	PASS
			NV	40	-20000.00	-3.060444	20	PASS
	Ant3	6535	NV	0	-20000.00	-3.060444	20	PASS
			NV	10	-20000.00	-3.060444	20	PASS
			NV	20	-20000.00	-3.060444	20	PASS
			NV	30	-20000.00	-3.060444	20	PASS
			NV	40	-20000.00	-3.060444	20	PASS
			NV	40	-20000.00	-3.060444	20	PASS
	Ant4	6535	NV	10	-20000.00	-3.060444	20	PASS
			NV	40	-20000.00	-3.060444	20	PASS
			NV	0	-20000.00	-3.060444	20	PASS
			NV	20	-20000.00	-3.060444	20	PASS
			NV	30	-20000.00	-3.060444	20	PASS
			NV	40	-20000.00	-3.060444	20	PASS
	Ant1	6695	NV	0	-20000.00	-2.987304	20	PASS
			NV	10	-20000.00	-2.987304	20	PASS
			NV	20	-20000.00	-2.987304	20	PASS
			NV	30	-20000.00	-2.987304	20	PASS
			NV	40	-20000.00	-2.987304	20	PASS
			NV	40	-20000.00	-2.987304	20	PASS
	Ant2	6695	NV	0	-20000.00	-2.987304	20	PASS
			NV	40	-20000.00	-2.987304	20	PASS
			NV	30	-20000.00	-2.987304	20	PASS
			NV	10	-20000.00	-2.987304	20	PASS
			NV	20	-20000.00	-2.987304	20	PASS
			NV	20	-20000.00	-2.987304	20	PASS
	Ant3	6695	NV	10	-20000.00	-2.987304	20	PASS
			NV	0	-20000.00	-2.987304	20	PASS

			NV	40	-20000.00	-2.987304	20	PASS
			NV	30	-20000.00	-2.987304	20	PASS
			NV	20	-20000.00	-2.987304	20	PASS
	Ant4	6895	NV	30	-20000.00	-2.987304	20	PASS
			NV	20	-20000.00	-2.987304	20	PASS
			NV	10	-20000.00	-2.987304	20	PASS
			NV	0	-20000.00	-2.987304	20	PASS
			NV	40	-20000.00	-2.987304	20	PASS
	Ant1	6855	NV	30	-20000.00	-2.917578	20	PASS
			NV	40	-20000.00	-2.917578	20	PASS
			NV	20	-20000.00	-2.917578	20	PASS
			NV	10	-20000.00	-2.917578	20	PASS
			NV	0	-20000.00	-2.917578	20	PASS
	Ant2	6855	NV	40	-20000.00	-2.917578	20	PASS
			NV	30	-20000.00	-2.917578	20	PASS
			NV	20	-20000.00	-2.917578	20	PASS
			NV	10	-20000.00	-2.917578	20	PASS
			NV	0	-20000.00	-2.917578	20	PASS
	Ant3	6855	NV	10	-20000.00	-2.917578	20	PASS
			NV	40	-20000.00	-2.917578	20	PASS
			NV	20	-20000.00	-2.917578	20	PASS
			NV	0	-20000.00	-2.917578	20	PASS
			NV	30	-20000.00	-2.917578	20	PASS
	Ant4	6855	NV	40	-20000.00	-2.917578	20	PASS
			NV	30	-20000.00	-2.917578	20	PASS
			NV	20	-20000.00	-2.917578	20	PASS
			NV	10	-20000.00	-2.917578	20	PASS
			NV	0	-20000.00	-2.917578	20	PASS
	Ant1	6875	NV	40	-20000.00	-2.909091	20	PASS
			NV	30	-20000.00	-2.909091	20	PASS
			NV	20	-20000.00	-2.909091	20	PASS
			NV	10	-20000.00	-2.909091	20	PASS
			NV	0	-20000.00	-2.909091	20	PASS
	Ant2	6875	NV	0	-20000.00	-2.909091	20	PASS
			NV	10	-20000.00	-2.909091	20	PASS
			NV	30	-20000.00	-2.909091	20	PASS
			NV	40	-20000.00	-2.909091	20	PASS
			NV	20	-20000.00	-2.909091	20	PASS
	Ant3	6875	NV	0	-20000.00	-2.909091	20	PASS
			NV	10	-20000.00	-2.909091	20	PASS
			NV	20	-20000.00	-2.909091	20	PASS
			NV	30	-20000.00	-2.909091	20	PASS
			NV	40	-20000.00	-2.909091	20	PASS
	Ant4	6875	NV	40	-20000.00	-2.909091	20	PASS
			NV	0	-20000.00	-2.909091	20	PASS
			NV	10	-20000.00	-2.909091	20	PASS
			NV	20	-20000.00	-2.909091	20	PASS
			NV	30	-20000.00	-2.909091	20	PASS
	Ant1	6895	NV	10	-20000.00	-2.900653	20	PASS
			NV	20	-20000.00	-2.900653	20	PASS
			NV	30	-20000.00	-2.900653	20	PASS
			NV	40	-20000.00	-2.900653	20	PASS
			NV	0	-20000.00	-2.900653	20	PASS
	Ant2	6895	NV	0	-20000.00	-2.900653	20	PASS
			NV	10	-20000.00	-2.900653	20	PASS
			NV	20	-20000.00	-2.900653	20	PASS
			NV	30	-20000.00	-2.900653	20	PASS
			NV	40	-20000.00	-2.900653	20	PASS
	Ant3	6895	NV	30	-20000.00	-2.900653	20	PASS
			NV	0	-20000.00	-2.900653	20	PASS
			NV	10	-20000.00	-2.900653	20	PASS
			NV	20	-20000.00	-2.900653	20	PASS
			NV	40	-20000.00	-2.900653	20	PASS
	Ant4	6895	NV	20	-20000.00	-2.900653	20	PASS

			NV	10	-20000.00	-2.900653	20	PASS
			NV	30	-20000.00	-2.900653	20	PASS
			NV	40	-20000.00	-2.900653	20	PASS
			NV	0	-20000.00	-2.900653	20	PASS
	Ant1	6995	NV	40	-20000.00	-2.859185	20	PASS
			NV	30	-20000.00	-2.859185	20	PASS
			NV	20	-20000.00	-2.859185	20	PASS
			NV	10	-20000.00	-2.859185	20	PASS
	Ant2	6995	NV	0	-20000.00	-2.859185	20	PASS
			NV	40	-20000.00	-2.859185	20	PASS
			NV	10	-20000.00	-2.859185	20	PASS
			NV	20	-20000.00	-2.859185	20	PASS
	Ant3	6995	NV	30	-20000.00	-2.859185	20	PASS
			NV	0	-20000.00	-2.859185	20	PASS
			NV	40	-20000.00	-2.859185	20	PASS
			NV	30	-20000.00	-2.859185	20	PASS
	Ant4	6995	NV	0	-20000.00	-2.859185	20	PASS
			NV	10	-20000.00	-2.859185	20	PASS
			NV	20	-20000.00	-2.859185	20	PASS
			NV	30	-20000.00	-2.859185	20	PASS
11AX40MIMO	Ant1	7115	NV	40	-20000.00	-2.859185	20	PASS
			NV	20	-20000.00	-2.810963	20	PASS
			NV	30	-20000.00	-2.810963	20	PASS
			NV	0	-20000.00	-2.810963	20	PASS
	Ant2	7115	NV	40	-20000.00	-2.810963	20	PASS
			NV	10	-20000.00	-2.810963	20	PASS
			NV	0	-20000.00	-2.810963	20	PASS
			NV	10	-20000.00	-2.810963	20	PASS
	Ant3	7115	NV	20	-20000.00	-2.810963	20	PASS
			NV	30	-20000.00	-2.810963	20	PASS
			NV	0	-20000.00	-2.810963	20	PASS
			NV	10	-20000.00	-2.810963	20	PASS
	Ant4	7115	NV	20	-20000.00	-2.810963	20	PASS
			NV	30	-20000.00	-2.810963	20	PASS
			NV	0	-20000.00	-2.810963	20	PASS
			NV	10	-20000.00	-2.810963	20	PASS
	Ant1	5965	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant2	5965	NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
	Ant3	5965	NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
	Ant4	5965	NV	20	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS

	Ant1	6165	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	6165	NV	10	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant3	6165	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant4	6165	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant1	6405	NV	10	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
	Ant2	6405	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant3	6405	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant4	6405	NV	10	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant1	6445	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	6445	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant3	6445	NV	10	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
	Ant4	6445	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant1	6485	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS

			NV	40	0.00	0.000000	20	PASS
	Ant2	6485	NV	10	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant3	6485	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
	Ant4	6485	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant1	6525	NV	0	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
	Ant2	6525	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
	Ant3	6525	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant4	6525	NV	0	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant1	6565	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
	Ant2	6565	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant3	6565	NV	40	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant4	6565	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
	Ant1	6685	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	6685	NV	10	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS

			NV	0	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant3	6685	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
	Ant4	6685	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant1	6845	NV	0	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
	Ant2	6845	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
	Ant3	6845	NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
	Ant4	6845	NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant1	6885	NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	6885	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
	Ant3	6885	NV	30	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant4	6885	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
	Ant1	6925	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
	Ant2	6925	NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
	Ant3	6925	NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS

11AX80MIMO			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant4	6925	NV	40	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
	Ant1	6965	NV	40	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
	Ant2	6965	NV	10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant3	6965	NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-5.743001	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant4	6965	NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
	Ant1	7085	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
	Ant2	7085	NV	0	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
	Ant3	7085	NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-5.645730	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant4	7085	NV	40	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
11AX80MIMO	Ant1	5985	NV	0	-80000.00	-13.366750	20	PASS
			NV	10	-80000.00	-13.366750	20	PASS
			NV	20	-80000.00	-13.366750	20	PASS
			NV	30	-80000.00	-13.366750	20	PASS
			NV	40	-80000.00	-13.366750	20	PASS
	Ant2	5985	NV	0	-80000.00	-13.366750	20	PASS
			NV	40	-80000.00	-13.366750	20	PASS
			NV	30	-80000.00	-13.366750	20	PASS
			NV	10	-80000.00	-13.366750	20	PASS
			NV	20	-80000.00	-13.366750	20	PASS
	Ant3	5985	NV	0	-80000.00	-13.366750	20	PASS
			NV	10	-80000.00	-13.366750	20	PASS
			NV	20	-80000.00	-13.366750	20	PASS
			NV	30	-80000.00	-13.366750	20	PASS
			NV	40	-80000.00	-13.366750	20	PASS
	Ant4	5985	NV	40	-80000.00	-13.366750	20	PASS

			NV	30	-80000.00	-13.366750	20	PASS
			NV	10	-80000.00	-13.366750	20	PASS
			NV	0	-80000.00	-13.366750	20	PASS
			NV	20	-80000.00	-13.366750	20	PASS
Ant1	6145		NV	0	-80000.00	-13.018714	20	PASS
			NV	10	-80000.00	-13.018714	20	PASS
			NV	20	-80000.00	-13.018714	20	PASS
			NV	30	-80000.00	-13.018714	20	PASS
Ant2	6145		NV	40	-80000.00	-13.018714	20	PASS
			NV	30	-80000.00	-13.018714	20	PASS
			NV	40	-80000.00	-13.018714	20	PASS
			NV	10	-80000.00	-13.018714	20	PASS
Ant3	6145		NV	0	-80000.00	-13.018714	20	PASS
			NV	10	-80000.00	-13.018714	20	PASS
			NV	20	-80000.00	-13.018714	20	PASS
			NV	30	-80000.00	-13.018714	20	PASS
Ant4	6145		NV	40	-80000.00	-13.018714	20	PASS
			NV	0	-80000.00	-13.018714	20	PASS
			NV	10	-80000.00	-13.018714	20	PASS
			NV	20	-80000.00	-13.018714	20	PASS
Ant1	6385		NV	30	-80000.00	-12.529366	20	PASS
			NV	40	-80000.00	-12.529366	20	PASS
			NV	20	-80000.00	-12.529366	20	PASS
			NV	0	-80000.00	-12.529366	20	PASS
Ant2	6385		NV	30	-80000.00	-12.529366	20	PASS
			NV	0	-80000.00	-12.529366	20	PASS
			NV	10	-80000.00	-12.529366	20	PASS
			NV	20	-80000.00	-12.529366	20	PASS
Ant3	6385		NV	30	-80000.00	-12.529366	20	PASS
			NV	40	-80000.00	-12.529366	20	PASS
			NV	20	-80000.00	-12.529366	20	PASS
			NV	10	-80000.00	-12.529366	20	PASS
Ant4	6385		NV	0	-80000.00	-12.529366	20	PASS
			NV	10	-80000.00	-12.529366	20	PASS
			NV	20	-80000.00	-12.529366	20	PASS
			NV	30	-80000.00	-12.529366	20	PASS
Ant1	6465		NV	40	-80000.00	-12.374323	20	PASS
			NV	0	-80000.00	-12.374323	20	PASS
			NV	10	-80000.00	-12.374323	20	PASS
			NV	20	-80000.00	-12.374323	20	PASS
Ant2	6465		NV	30	-80000.00	-12.374323	20	PASS
			NV	40	-80000.00	-12.374323	20	PASS
			NV	0	-80000.00	-12.374323	20	PASS
			NV	10	-80000.00	-12.374323	20	PASS
Ant3	6465		NV	20	-80000.00	-12.374323	20	PASS
			NV	30	-80000.00	-12.374323	20	PASS
			NV	40	-80000.00	-12.374323	20	PASS
			NV	0	-80000.00	-12.374323	20	PASS
Ant4	6465		NV	10	-80000.00	-12.374323	20	PASS
			NV	40	-80000.00	-12.374323	20	PASS
			NV	20	-80000.00	-12.374323	20	PASS
			NV	0	-80000.00	-12.374323	20	PASS
			NV	30	-80000.00	-12.374323	20	PASS
			NV	40	-80000.00	-12.374323	20	PASS
			NV	20	-80000.00	-12.374323	20	PASS
			NV	0	-80000.00	-12.374323	20	PASS