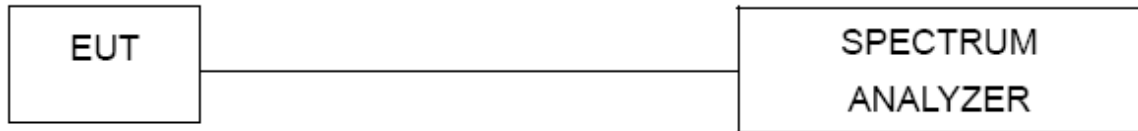


13. Frequency Stability Measurement

13.1 Block Diagram Of Test Setup



13.2 Limit

Manufactures 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.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification)..

13.3 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f_c \times 10^6$ ppm and he limit is less than ± 20 ppm (IEEE 802.11n specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^\circ\text{C} \sim 70^\circ\text{C}$.

13.4 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX (5.1G) Mode Frequency U-NII-1 (5180-5240MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5180.0059	5180	0.0059	1.1390
		V max (V)	138.00	5180.0123	5180	0.0123	2.3745
		V min (V)	102.00	5180.0014	5180	0.0014	0.2703
Limits				5150-5250 MHz			
Result				Complies			

Temperature vs. Frequency Stability

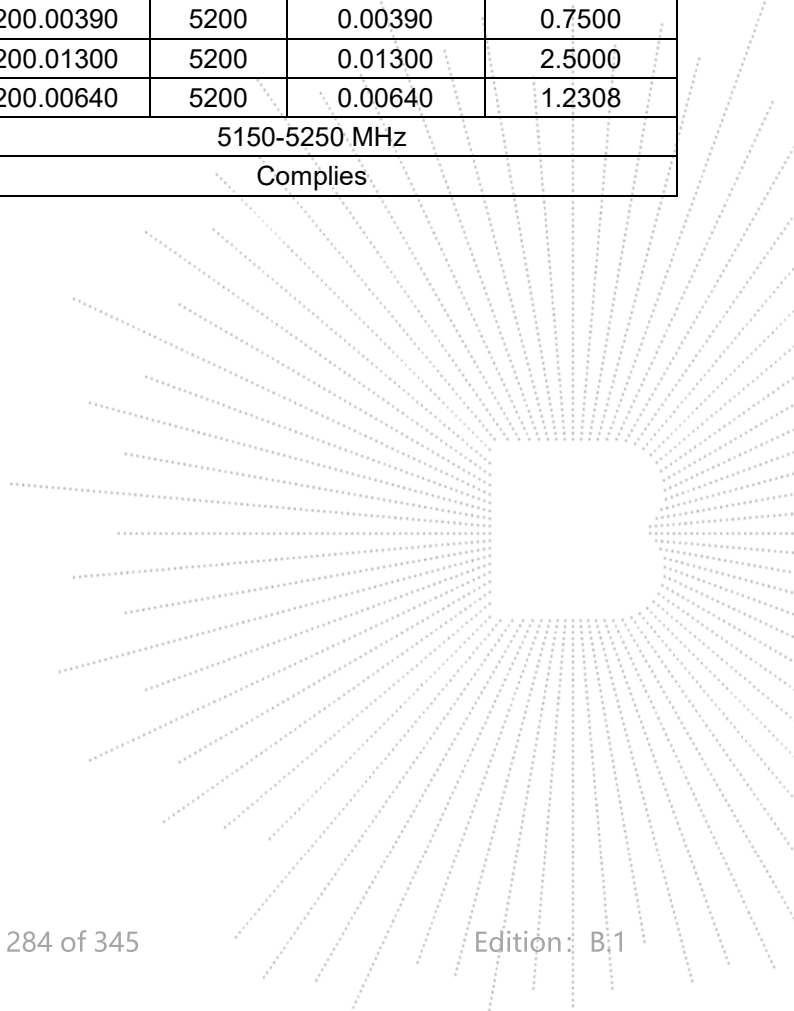
TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5180.0106	5180	0.0106	2.0463
		T (°C)	-10	5180.0046	5180	0.0046	0.8880
		T (°C)	0	5180.0128	5180	0.0128	2.4710
		T (°C)	10	5180.0080	5180	0.0080	1.5444
		T (°C)	20	5180.0083	5180	0.0083	1.6023
		T (°C)	30	5180.0004	5180	0.0004	0.0772
		T (°C)	40	5180.0083	5180	0.0083	1.6023
		T (°C)	50	5180.0015	5180	0.0015	0.2896
		T (°C)	60	5180.0030	5180	0.0030	0.5792
		T (°C)	70	5180.0098	5180	0.0098	1.8919
Limits				5150-5250 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5200.0106	5200	0.0106	2.0385
		V max (V)	138.00	5200.0037	5200	0.0037	0.7115
		V min (V)	102.00	5200.0011	5200	0.0011	0.2115
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5200.00180	5200	0.00180	0.3462
		T (°C)	-10	5200.00020	5200	0.00020	0.0385
		T (°C)	0	5200.00110	5200	0.00110	0.2115
		T (°C)	10	5200.00420	5200	0.00420	0.8077
		T (°C)	20	5200.00310	5200	0.00310	0.5962
		T (°C)	30	5200.01190	5200	0.01190	2.2885
		T (°C)	40	5200.00370	5200	0.00370	0.7115
		T (°C)	50	5200.00390	5200	0.00390	0.7500
		T (°C)	60	5200.01300	5200	0.01300	2.5000
		T (°C)	70	5200.00640	5200	0.00640	1.2308
Limits				5150-5250 MHz			
Result				Complies			

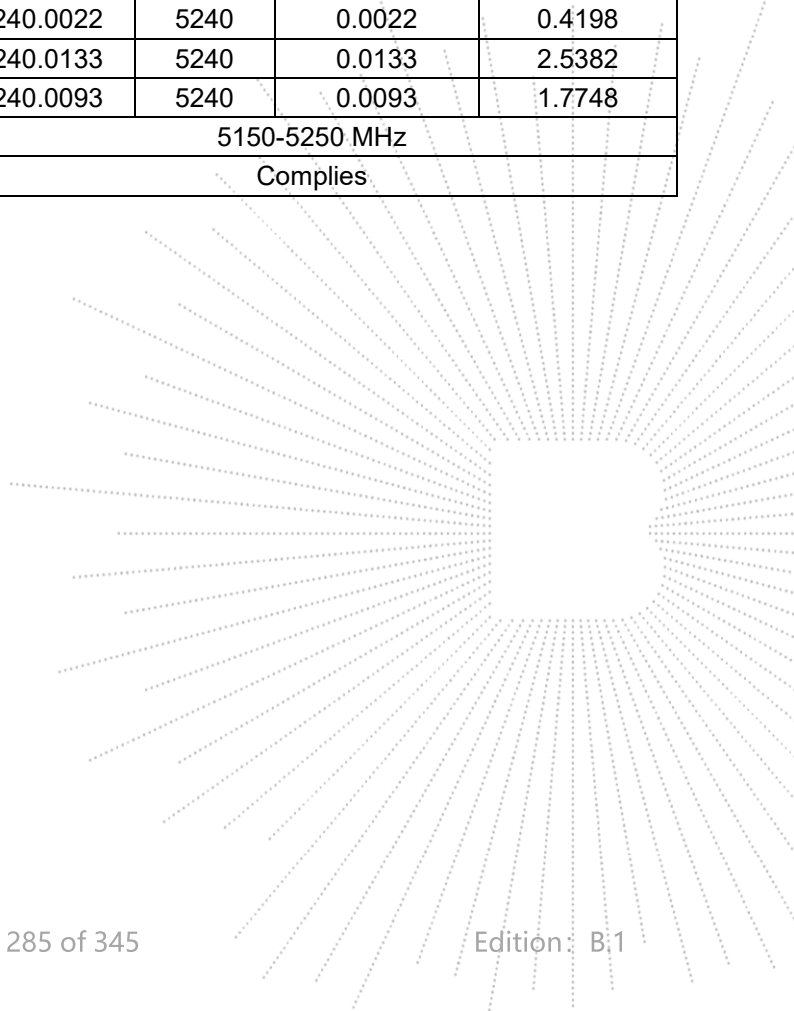


Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5240.0133	5240	0.0133	2.5382
		V max (V)	138.00	5240.0035	5240	0.0035	0.6679
		V min (V)	102.00	5240.0121	5240	0.0121	2.3092
Limits				5150-5250 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5240.0079	5240	0.0079	1.5076
		T (°C)	-10	5240.0055	5240	0.0055	1.0496
		T (°C)	0	5240.0077	5240	0.0077	1.4695
		T (°C)	10	5240.0075	5240	0.0075	1.4313
		T (°C)	20	5240.0124	5240	0.0124	2.3664
		T (°C)	30	5240.0066	5240	0.0066	1.2595
		T (°C)	40	5240.0013	5240	0.0013	0.2481
		T (°C)	50	5240.0022	5240	0.0022	0.4198
		T (°C)	60	5240.0133	5240	0.0133	2.5382
		T (°C)	70	5240.0093	5240	0.0093	1.7748
Limits				5150-5250 MHz			
Result				Complies			



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX (5.3G) Mode Frequency U-NII-2A (5260-5320MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5260.0001	5260	0.0001	0.0190
		V max (V)	138.00	5260.0070	5260	0.0070	1.3308
		V min (V)	102.00	5260.0091	5260	0.0091	1.7300
Limits				5260-5320 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5260.0118	5260	0.0118	2.2433
		T (°C)	-10	5260.0101	5260	0.0101	1.9202
		T (°C)	0	5260.0084	5260	0.0084	1.5970
		T (°C)	10	5260.0053	5260	0.0053	1.0076
		T (°C)	20	5260.0130	5260	0.0130	2.4715
		T (°C)	30	5260.0042	5260	0.0042	0.7985
		T (°C)	40	5260.0062	5260	0.0062	1.1787
		T (°C)	50	5260.0027	5260	0.0027	0.5133
		T (°C)	60	5260.0093	5260	0.0093	1.7681
		T (°C)	70	5260.0132	5260	0.0132	2.5095
Limits				5260-5320 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency : 5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5280.0015	5280	0.0015	0.2841
		V max (V)	138.00	5280.0084	5280	0.0084	1.5909
		V min (V)	102.00	5280.0090	5280	0.0090	1.7045
Limits				5260-5320 MHz			
Result				Complies			

Temperature vs. Frequency Stability

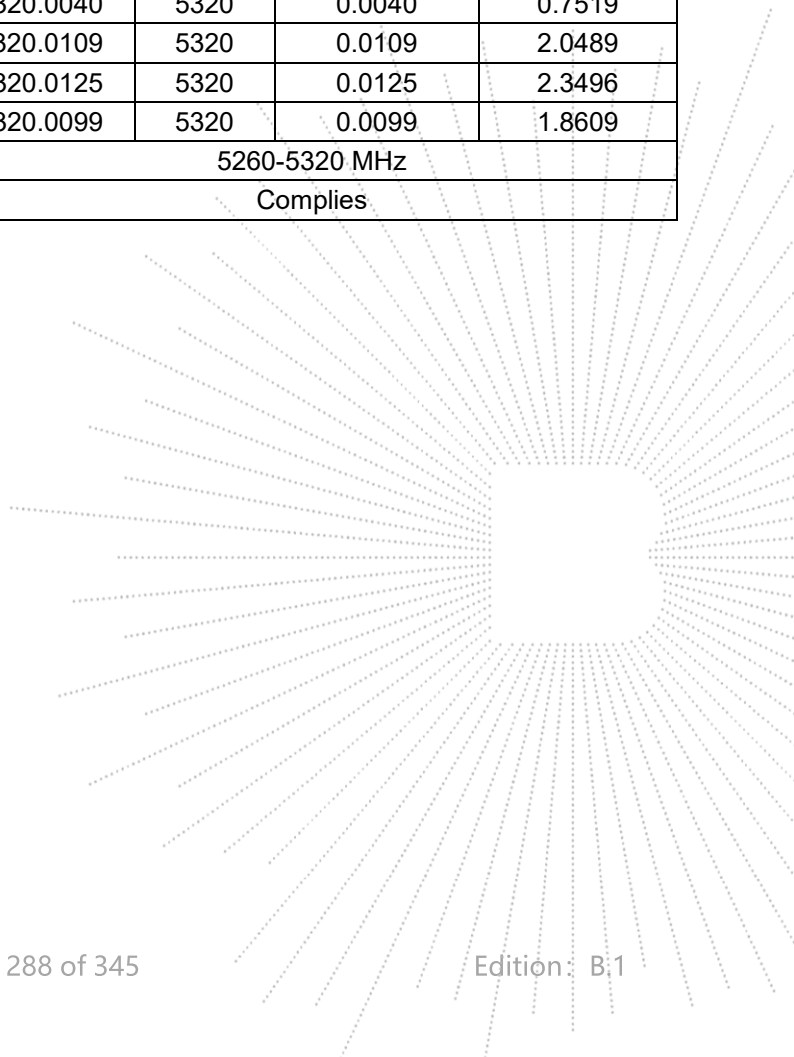
TEST CONDITIONS				Reference Frequency : 5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5280.00980	5280	0.00980	1.8561
		T (°C)	-10	5280.00640	5280	0.00640	1.2121
		T (°C)	0	5280.00430	5280	0.00430	0.8144
		T (°C)	10	5280.00420	5280	0.00420	0.7955
		T (°C)	20	5280.00460	5280	0.00460	0.8712
		T (°C)	30	5280.00330	5280	0.00330	0.6250
		T (°C)	40	5280.00400	5280	0.00400	0.7576
		T (°C)	50	5280.00140	5280	0.00140	0.2652
		T (°C)	60	5280.01260	5280	0.01260	2.3864
		T (°C)	70	5280.01120	5280	0.01120	2.1212
Limits				5260-5320 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5320.0106	5320	0.0106	1.9925
		V max (V)	138.00	5320.0104	5320	0.0104	1.9549
		V min (V)	102.00	5320.0072	5320	0.0072	1.3534
Limits				5260-5320 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5320.0072	5320	0.0072	1.3534
		T (°C)	-10	5320.0090	5320	0.0090	1.6917
		T (°C)	0	5320.0107	5320	0.0107	2.0113
		T (°C)	10	5320.0068	5320	0.0068	1.2782
		T (°C)	20	5320.0014	5320	0.0014	0.2632
		T (°C)	30	5320.0072	5320	0.0072	1.3534
		T (°C)	40	5320.0040	5320	0.0040	0.7519
		T (°C)	50	5320.0109	5320	0.0109	2.0489
		T (°C)	60	5320.0125	5320	0.0125	2.3496
		T (°C)	70	5320.0099	5320	0.0099	1.8609
Limits				5260-5320 MHz			
Result				Complies			



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX (5.6G) Mode Frequency U-NII-2C (5500-5700MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5500MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5500.0034	5500	0.0034	0.6182
		V max (V)	138.00	5500.0014	5500	0.0014	0.2545
		V min (V)	102.00	5500.0119	5500	0.0119	2.1636
Limits				5500-5700 MHz			
Result				Complies			

Temperature vs. Frequency Stability

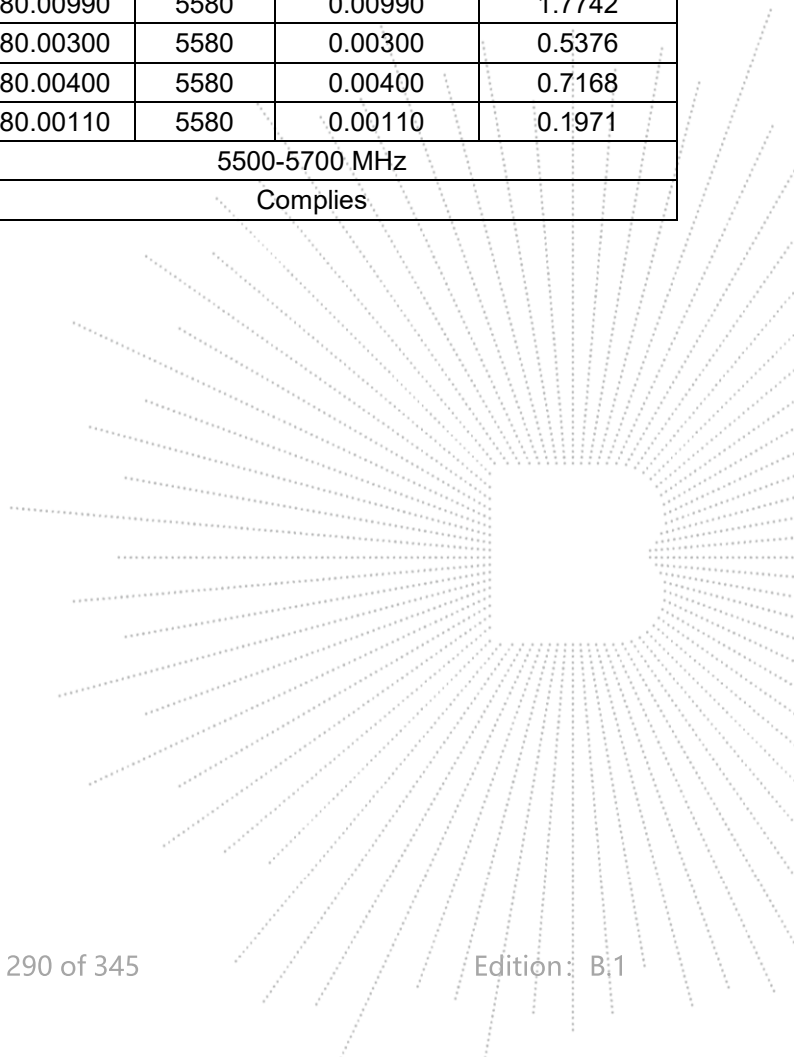
TEST CONDITIONS				Reference Frequency: 5500MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5500.0018	5500	0.0018	0.3273
		T (°C)	-10	5500.0013	5500	0.0013	0.2364
		T (°C)	0	5500.0059	5500	0.0059	1.0727
		T (°C)	10	5500.0104	5500	0.0104	1.8909
		T (°C)	20	5500.0059	5500	0.0059	1.0727
		T (°C)	30	5500.0034	5500	0.0034	0.6182
		T (°C)	40	5500.0085	5500	0.0085	1.5455
		T (°C)	50	5500.0104	5500	0.0104	1.8909
		T (°C)	60	5500.0003	5500	0.0003	0.0545
		T (°C)	70	5500.0005	5500	0.0005	0.0909
Limits				5500-5700 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5580MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5580.0042	5580	0.0042	0.7527
		V max (V)	138.00	5580.0062	5580	0.0062	1.1111
		V min (V)	102.00	5580.0070	5580	0.0070	1.2545
Limits				5500-5700 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5580MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5580.00670	5580	0.00670	1.2007
		T (°C)	-10	5580.00200	5580	0.00200	0.3584
		T (°C)	0	5580.01050	5580	0.01050	1.8817
		T (°C)	10	5580.00070	5580	0.00070	0.1254
		T (°C)	20	5580.00700	5580	0.00700	1.2545
		T (°C)	30	5580.01350	5580	0.01350	2.4194
		T (°C)	40	5580.00990	5580	0.00990	1.7742
		T (°C)	50	5580.00300	5580	0.00300	0.5376
		T (°C)	60	5580.00400	5580	0.00400	0.7168
		T (°C)	70	5580.00110	5580	0.00110	0.1971
Limits				5500-5700 MHz			
Result				Complies			

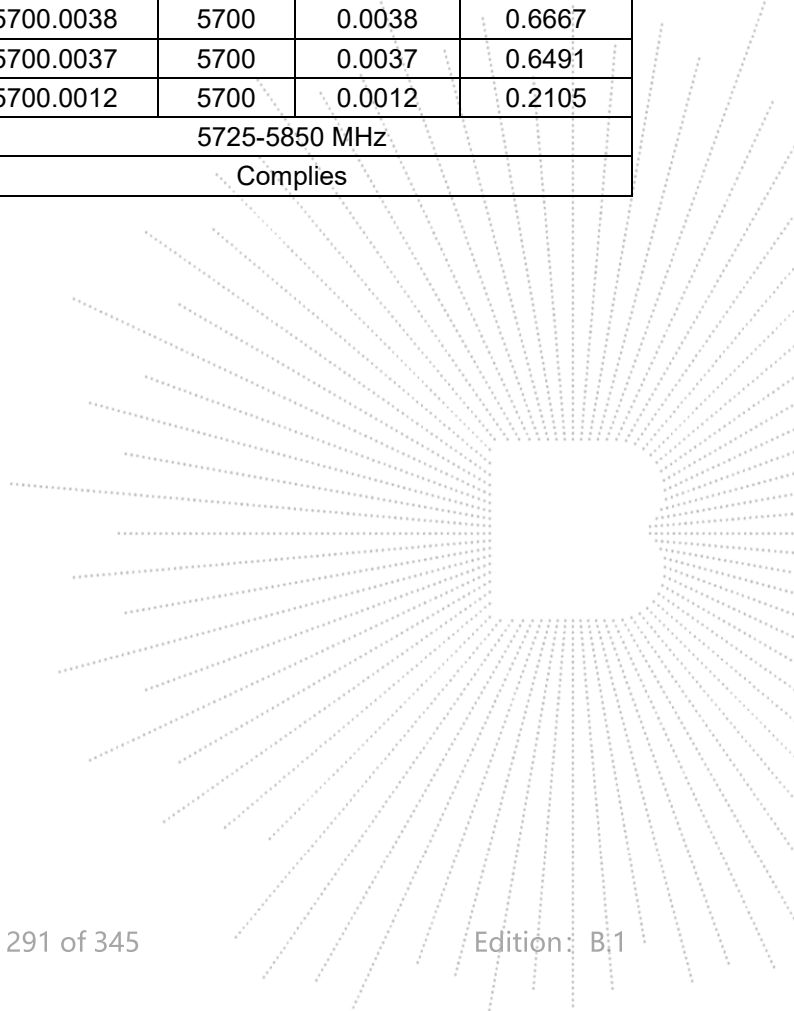


Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5700MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5700.0020	5700	0.0020	0.3509
		V max (V)	138.00	5700.0057	5700	0.0057	1.0000
		V min (V)	102.00	5700.0112	5700	0.0112	1.9649
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5700MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5700.0098	5700	0.0098	1.7193
		T (°C)	-10	5700.0112	5700	0.0112	1.9649
		T (°C)	0	5700.0078	5700	0.0078	1.3684
		T (°C)	10	5700.0040	5700	0.0040	0.7018
		T (°C)	20	5700.0121	5700	0.0121	2.1228
		T (°C)	30	5700.0053	5700	0.0053	0.9298
		T (°C)	40	5700.0031	5700	0.0031	0.5439
		T (°C)	50	5700.0038	5700	0.0038	0.6667
		T (°C)	60	5700.0037	5700	0.0037	0.6491
		T (°C)	70	5700.0012	5700	0.0012	0.2105
Limits				5725-5850 MHz			
Result				Complies			



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX (5.8G) Mode Frequency U-NII-3 (5745-5825MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5745.01250	5745	0.01250	2.1758
		V max (V)	138.00	5745.01260	5745	0.01260	2.1932
		V min (V)	102.00	5745.00600	5745	0.00600	1.0444
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

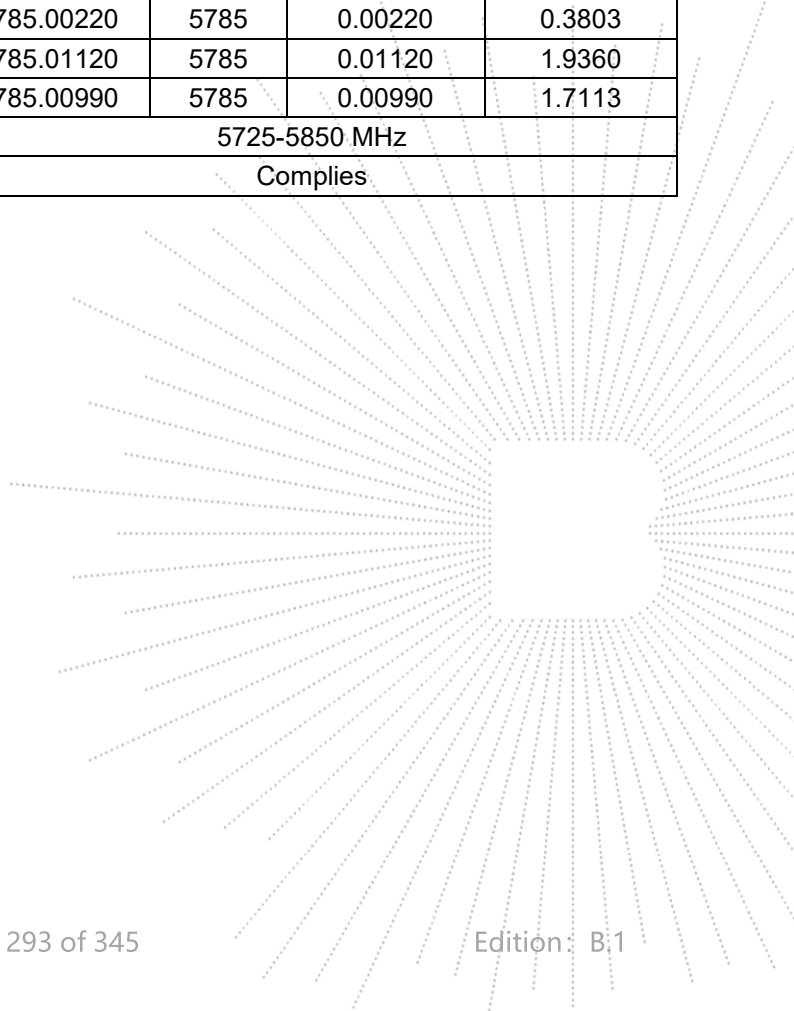
TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5745.00040	5745	0.00040	0.0696
		T (°C)	-10	5745.01010	5745	0.01010	1.7581
		T (°C)	0	5745.01300	5745	0.01300	2.2628
		T (°C)	10	5745.01160	5745	0.01160	2.0191
		T (°C)	20	5745.01080	5745	0.01080	1.8799
		T (°C)	30	5745.00580	5745	0.00580	1.0096
		T (°C)	40	5745.00380	5745	0.00380	0.6614
		T (°C)	50	5745.00050	5745	0.00050	0.0870
		T (°C)	60	5745.00320	5745	0.00320	0.5570
		T (°C)	70	5745.00490	5745	0.00490	0.8529
Limits				5725-5850 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5785.00150	5785	0.00150	0.2593
		V max (V)	138.00	5785.01250	5785	0.01250	2.1608
		V min (V)	102.00	5785.01230	5785	0.01230	2.1262
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5785.00620	5785	0.00620	1.0717
		T (°C)	-10	5785.00110	5785	0.00110	0.1901
		T (°C)	0	5785.00930	5785	0.00930	1.6076
		T (°C)	10	5785.00270	5785	0.00270	0.4667
		T (°C)	20	5785.00210	5785	0.00210	0.3630
		T (°C)	30	5785.00490	5785	0.00490	0.8470
		T (°C)	40	5785.00530	5785	0.00530	0.9162
		T (°C)	50	5785.00220	5785	0.00220	0.3803
		T (°C)	60	5785.01120	5785	0.01120	1.9360
		T (°C)	70	5785.00990	5785	0.00990	1.7113
Limits				5725-5850 MHz			
Result				Complies			

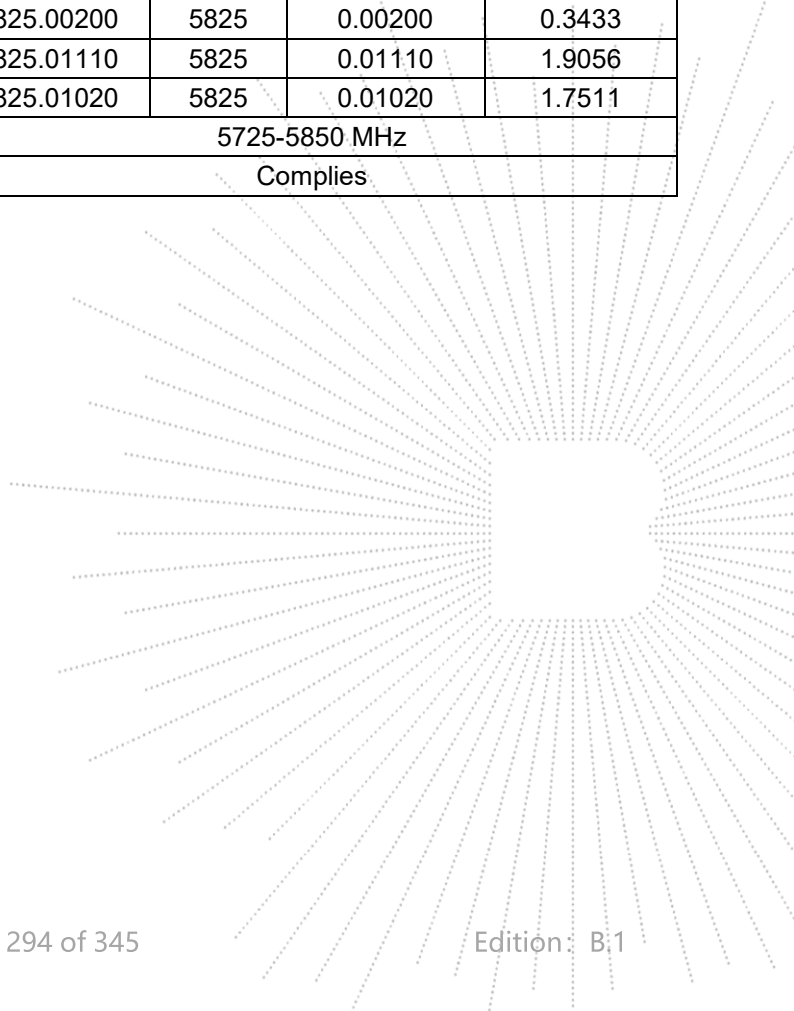


Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency : 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5825.00800	5825	0.00800	1.3734
		V max (V)	138.00	5825.01190	5825	0.01190	2.0429
		V min (V)	102.00	5825.00040	5825	0.00040	0.0687
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency : 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5825.00230	5825	0.00230	0.3948
		T (°C)	-10	5825.00530	5825	0.00530	0.9099
		T (°C)	0	5825.00780	5825	0.00780	1.3391
		T (°C)	10	5825.00940	5825	0.00940	1.6137
		T (°C)	20	5825.00580	5825	0.00580	0.9957
		T (°C)	30	5825.01080	5825	0.01080	1.8541
		T (°C)	40	5825.00480	5825	0.00480	0.8240
		T (°C)	50	5825.00200	5825	0.00200	0.3433
		T (°C)	60	5825.01110	5825	0.01110	1.9056
		T (°C)	70	5825.01020	5825	0.01020	1.7511
Limits				5725-5850 MHz			
Result				Complies			



14. Duty Cycle Of Test Signal

14.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

14.2 Formula

Duty Cycle = $T_{on} / (T_{on} + T_{off})$

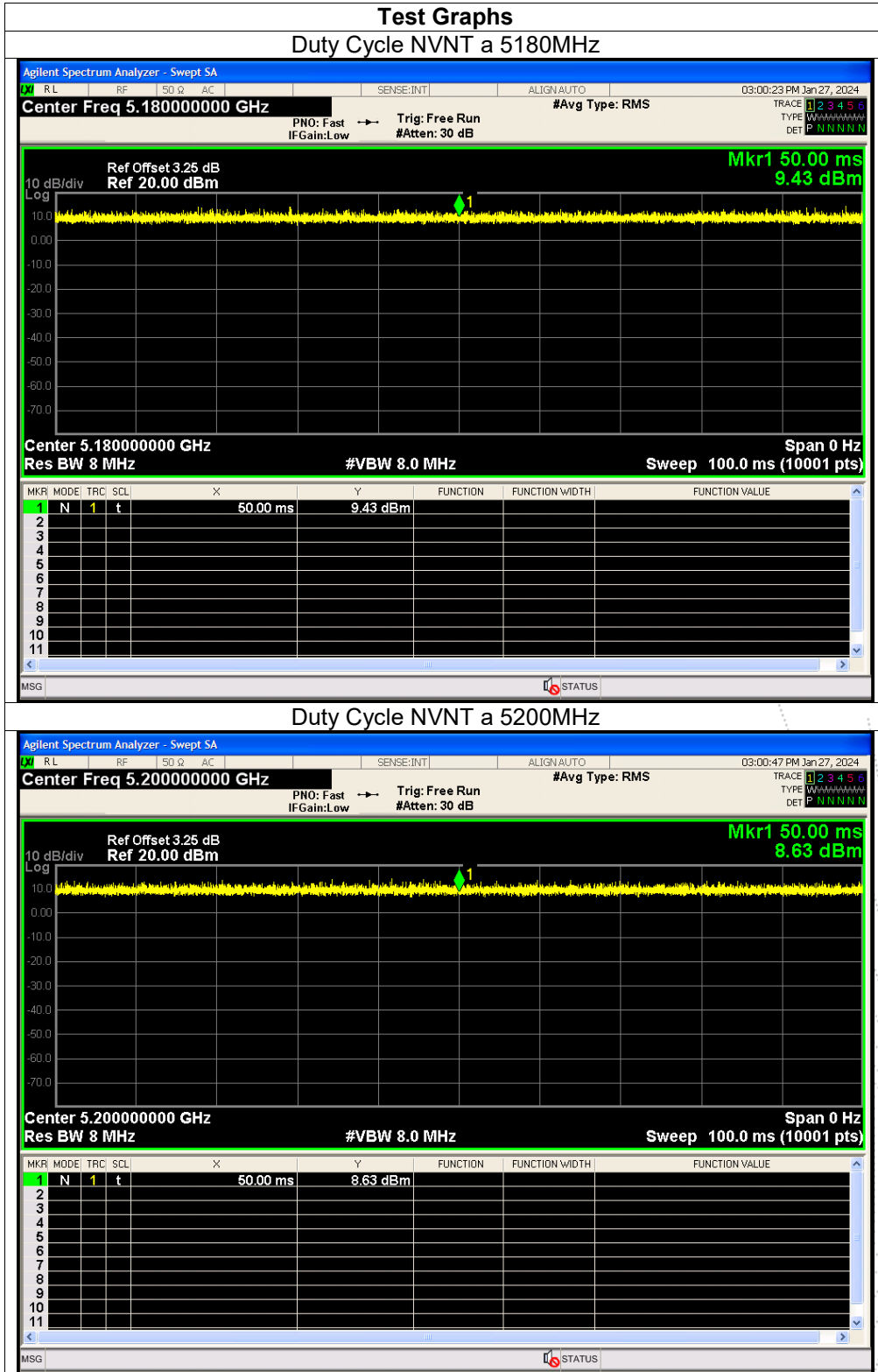
14.3 Test Procedure

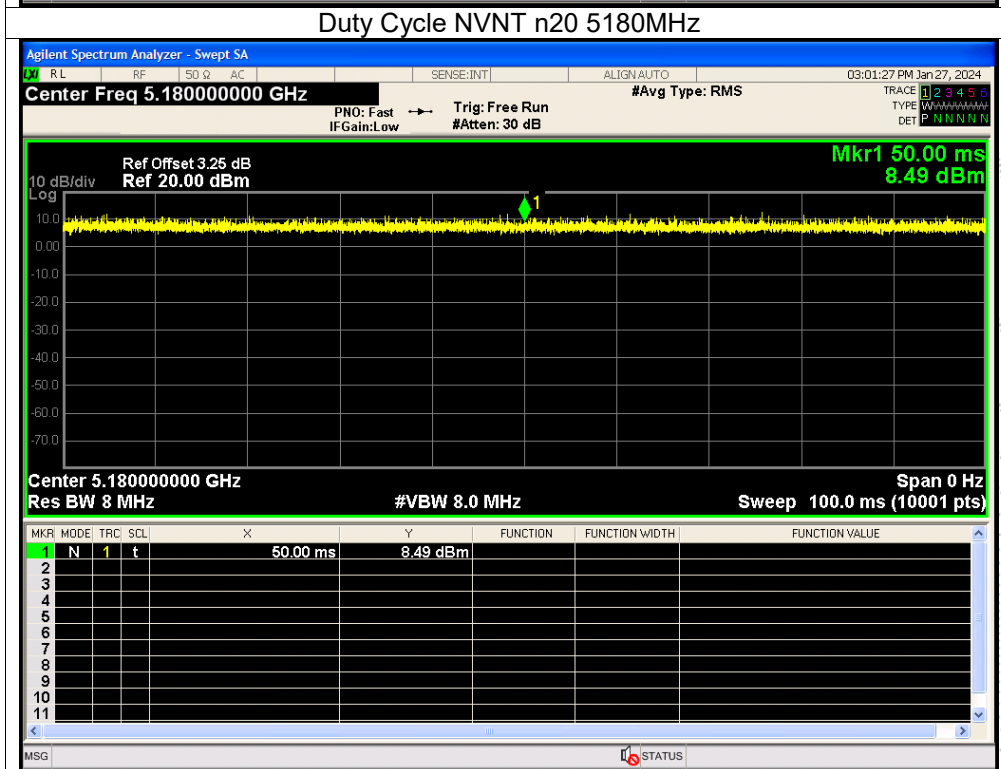
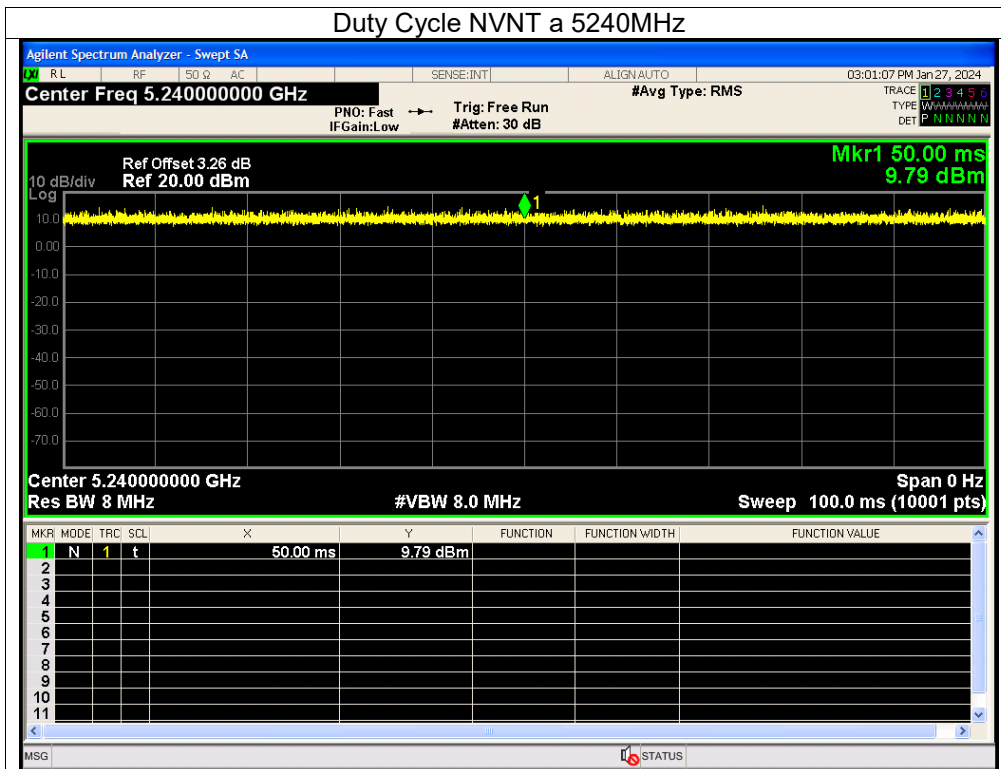
1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

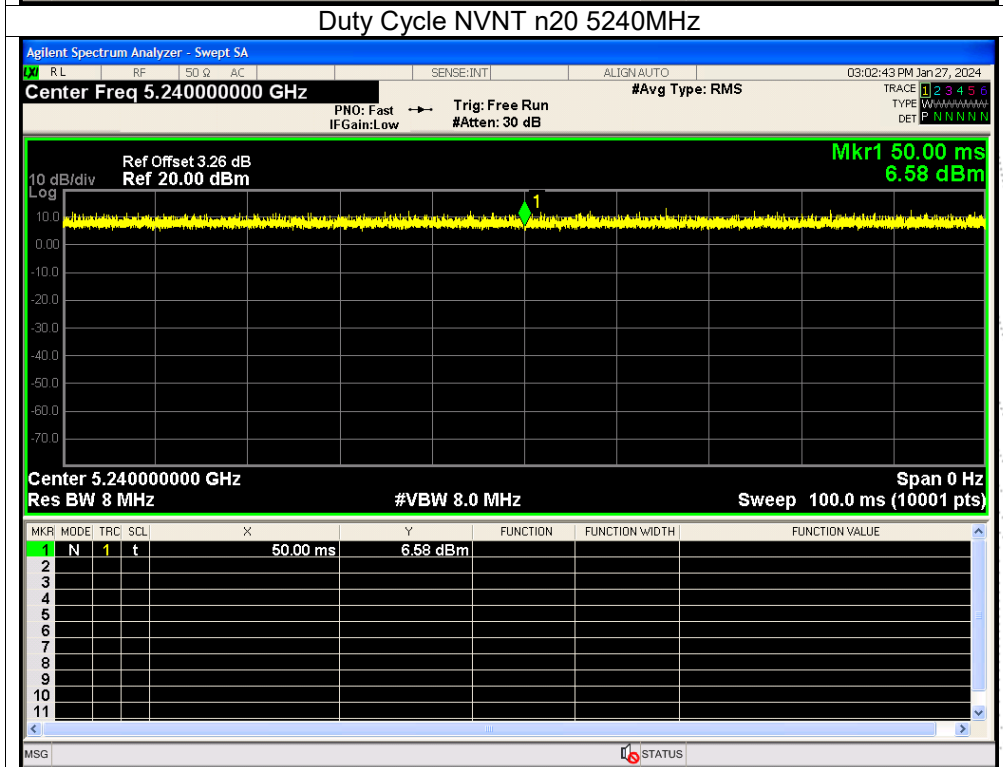
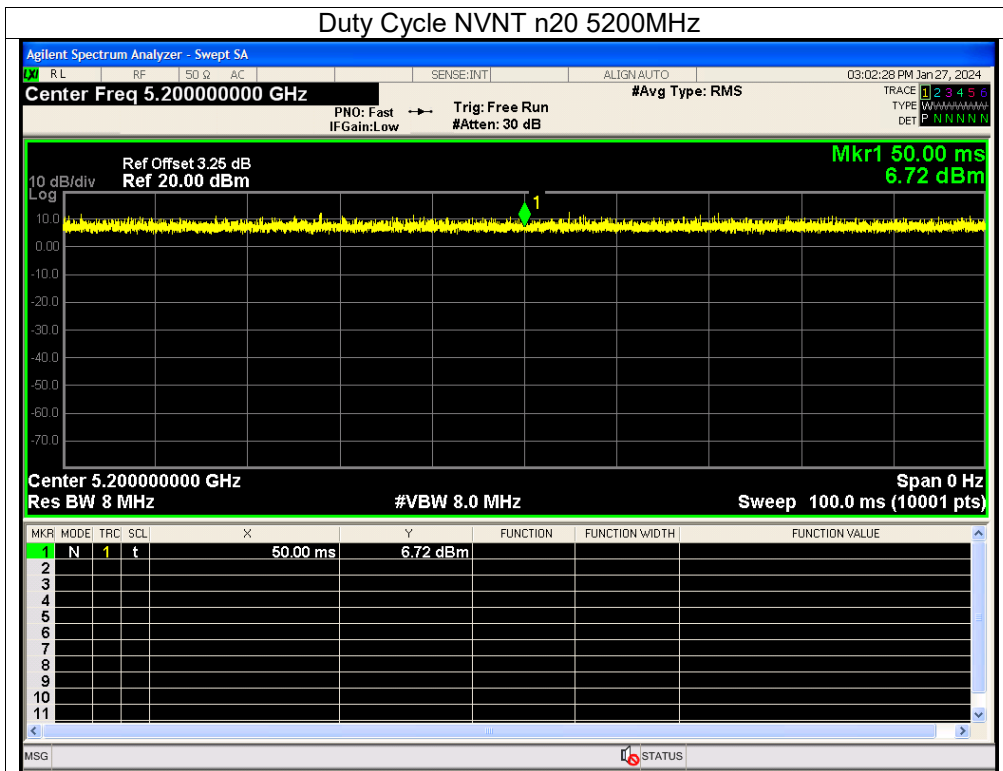
14.4 Test Result

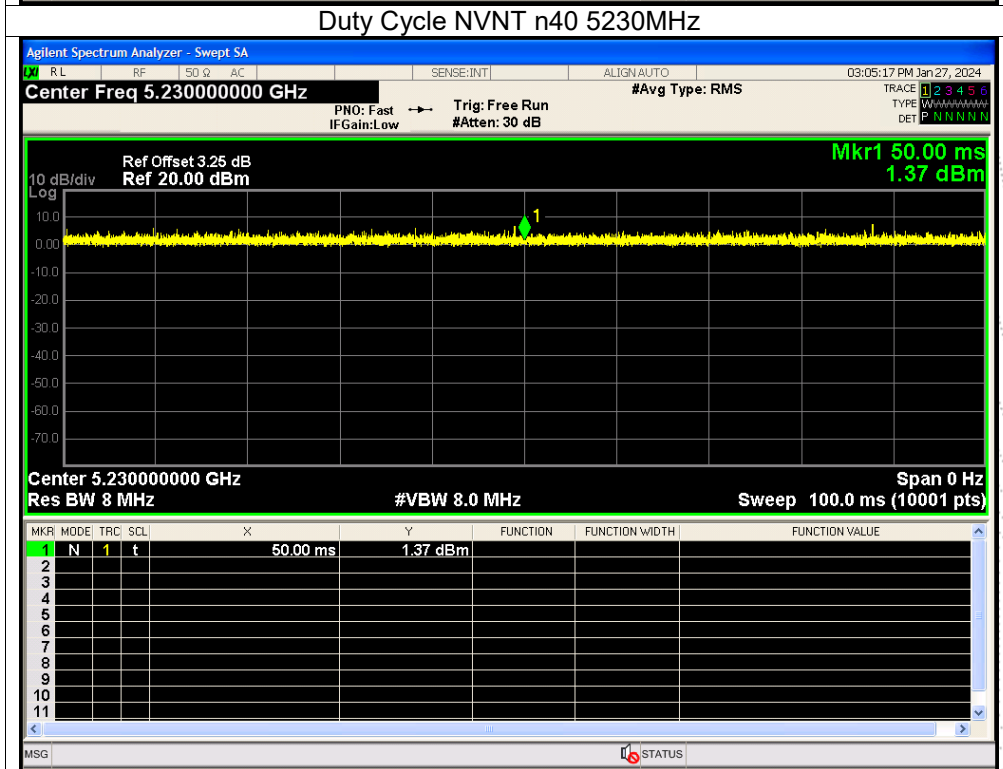
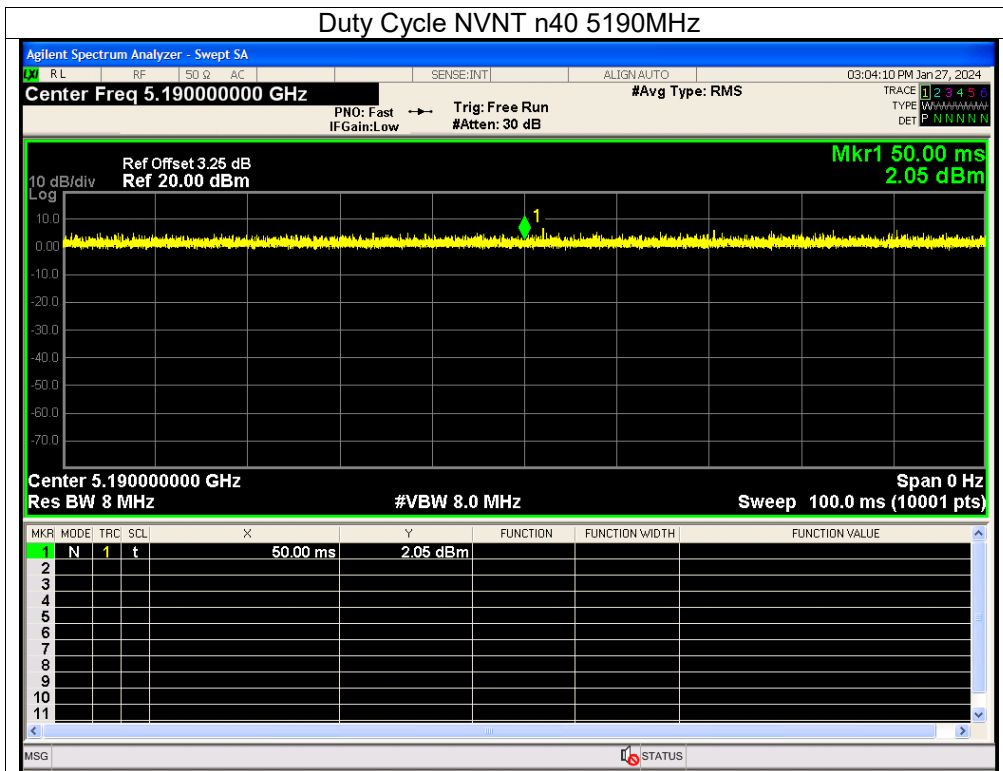
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	100	0	0
NVNT	a	5200	100	0	0
NVNT	a	5240	100	0	0
NVNT	n20	5180	100	0	0
NVNT	n20	5200	100	0	0
NVNT	n20	5240	100	0	0
NVNT	n40	5190	100	0	0
NVNT	n40	5230	100	0	0
NVNT	ac20	5180	100	0	0
NVNT	ac20	5200	100	0	0
NVNT	ac20	5240	100	0	0
NVNT	ac40	5190	100	0	0
NVNT	ac40	5230	100	0	0
NVNT	ac80	5210	100	0	0
NVNT	ax20	5180	100	0	0
NVNT	ax20	5200	100	0	0
NVNT	ax20	5240	100	0	0
NVNT	ax40	5190	100	0	0
NVNT	ax40	5230	100	0	0
NVNT	ax80	5210	100	0	0

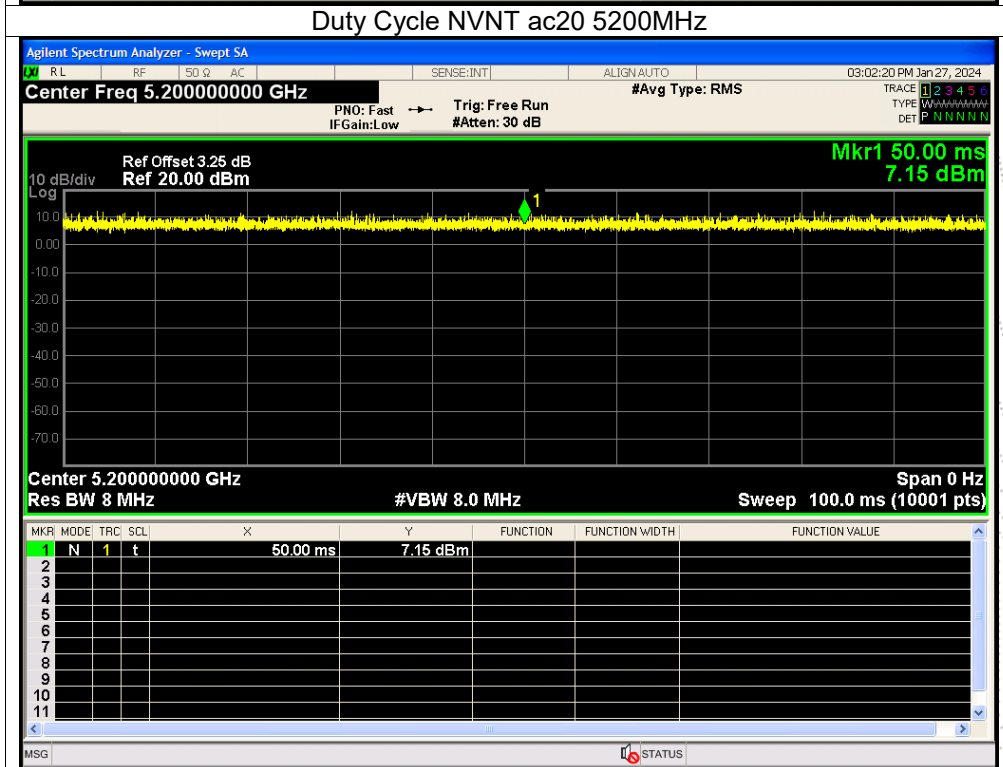
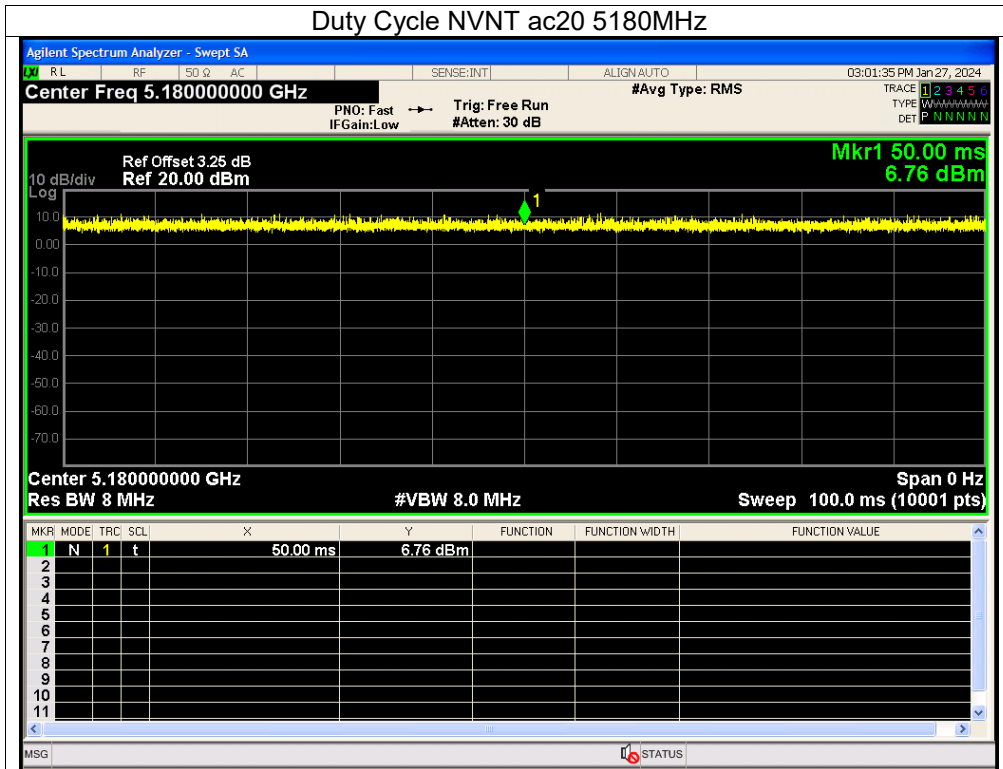
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A . Plot.

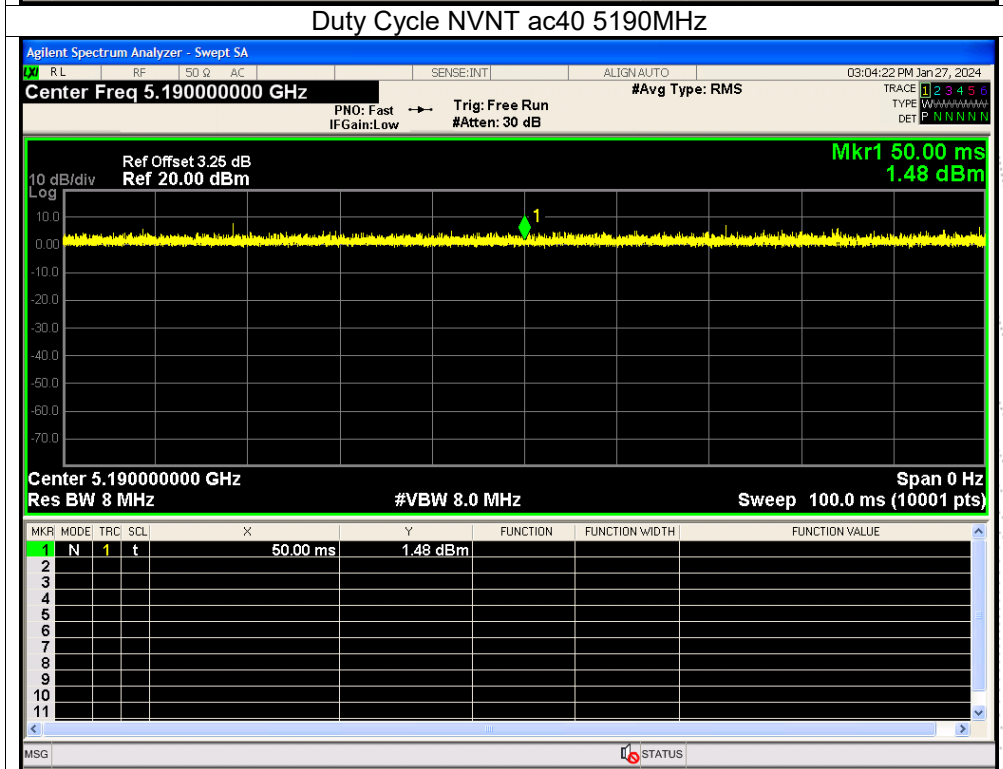
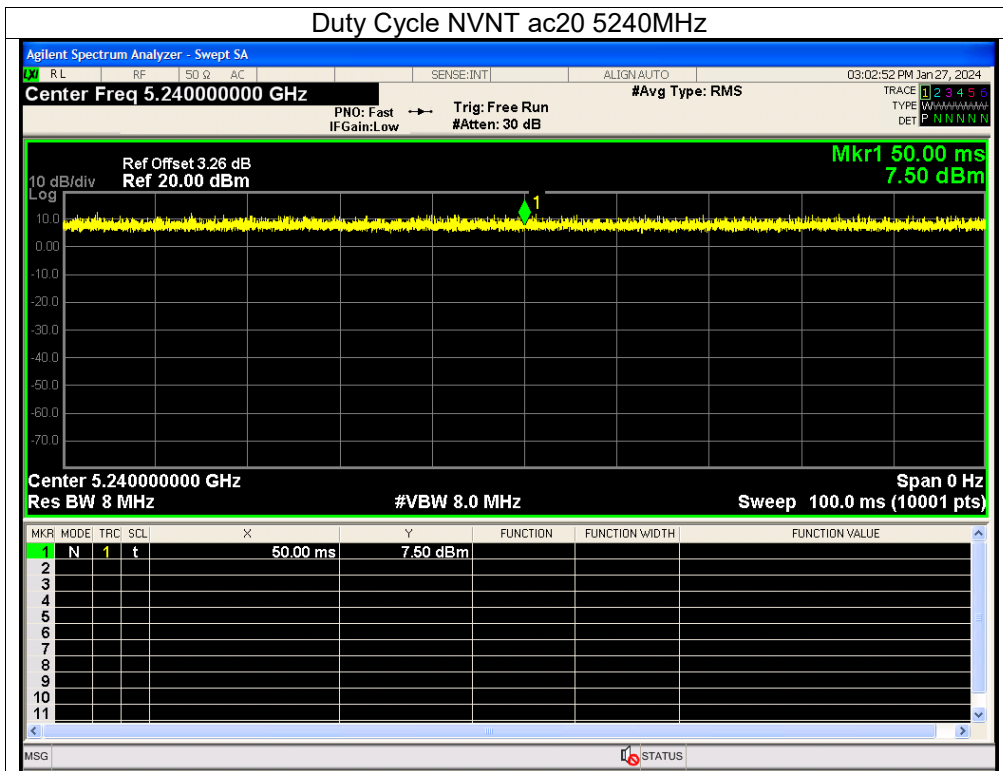


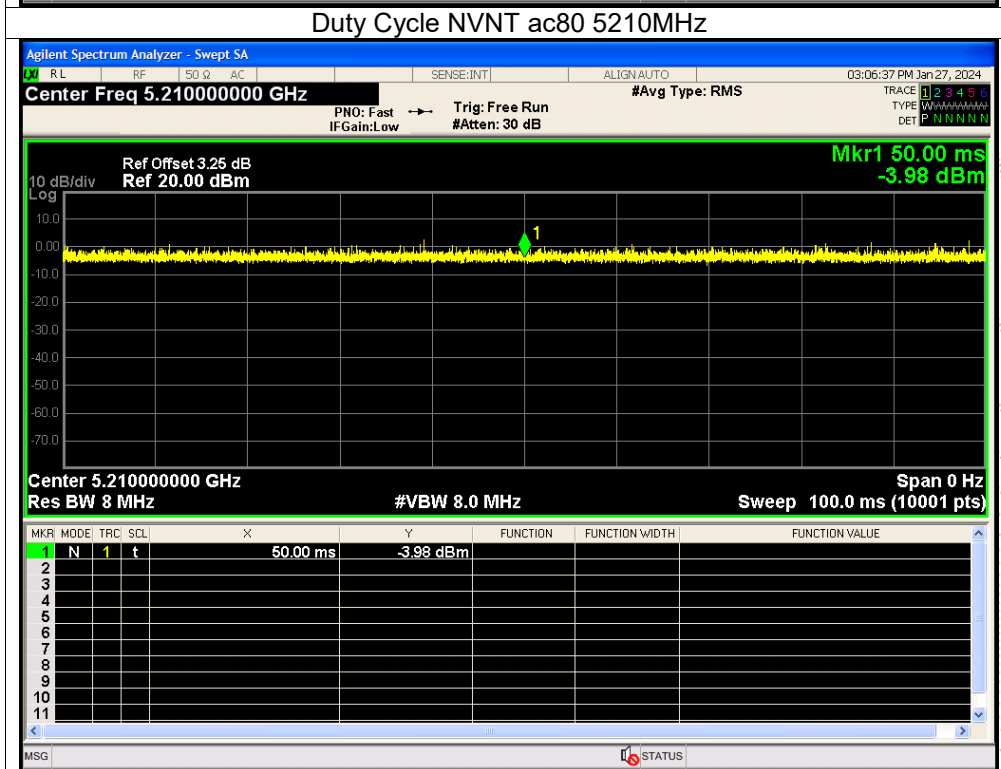
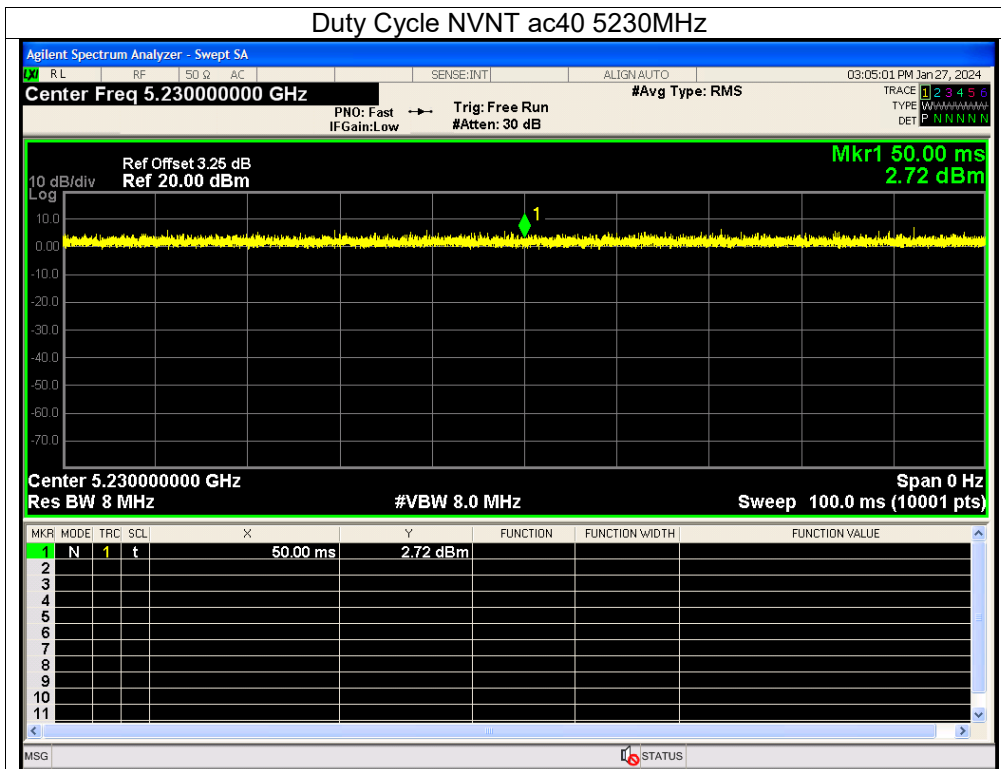


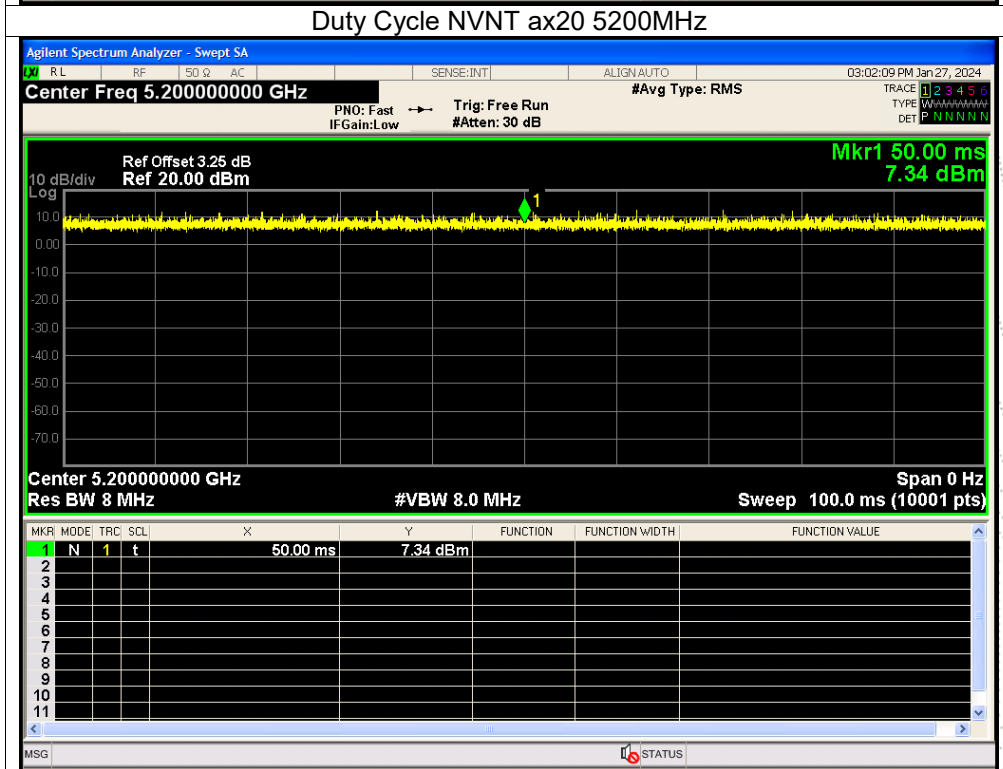
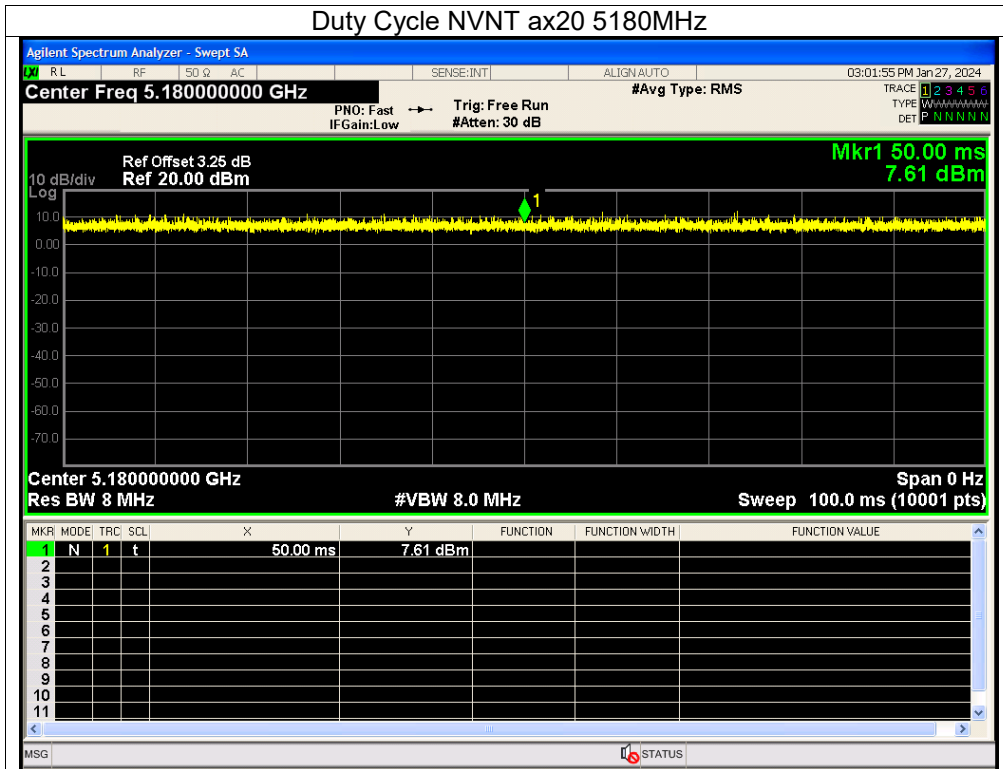


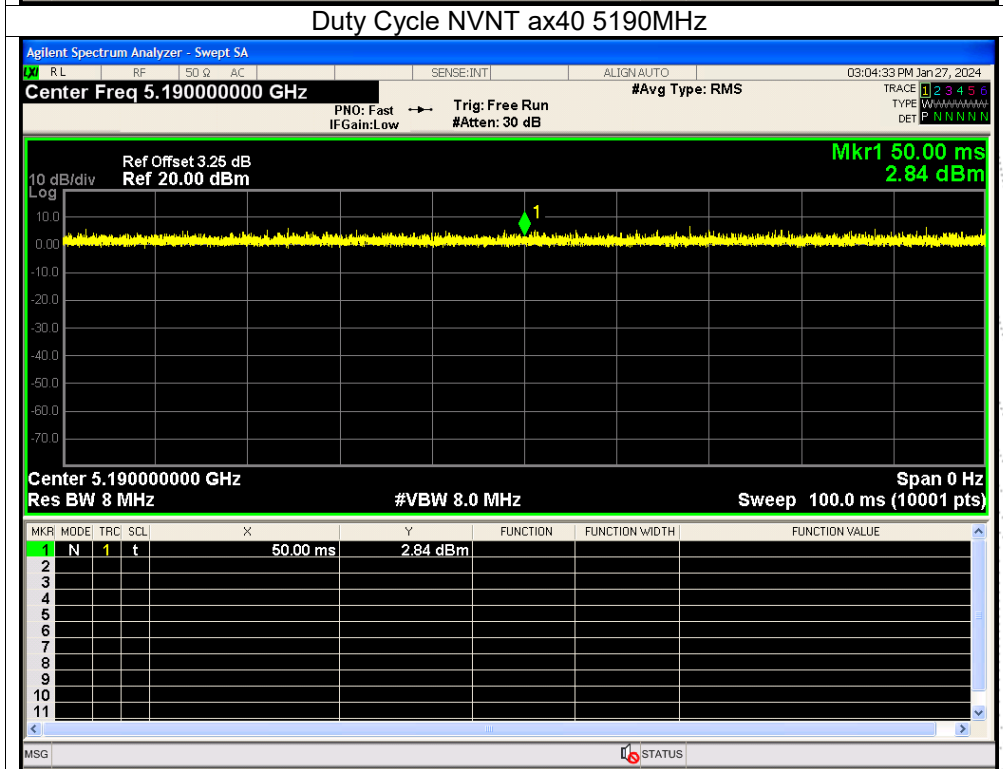
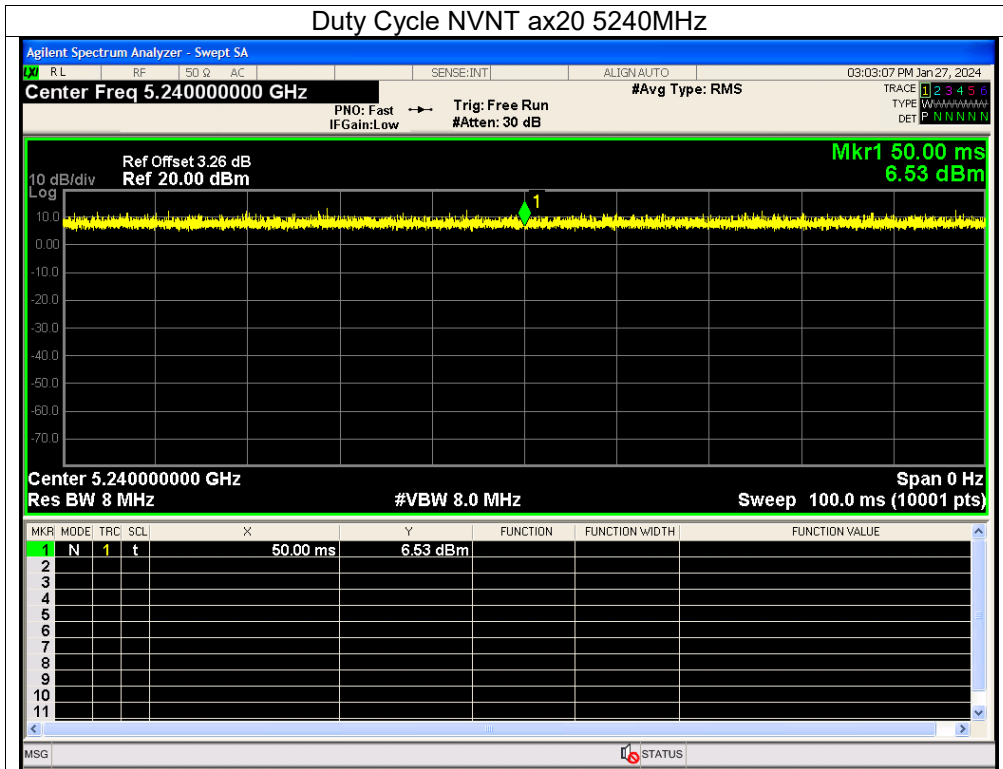


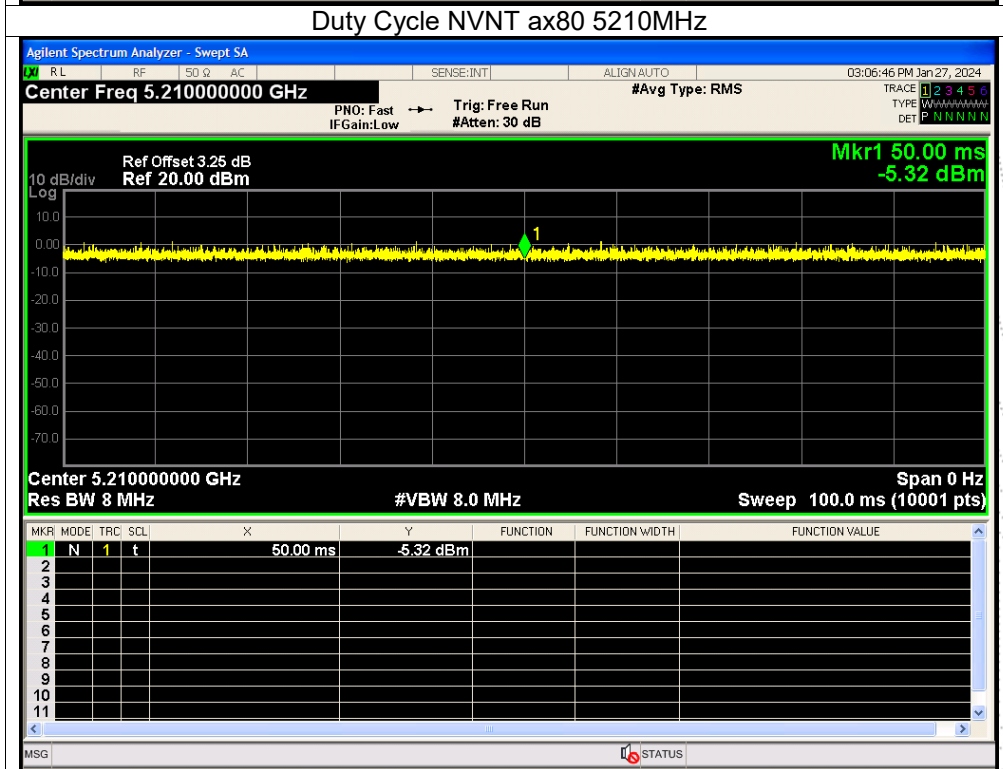
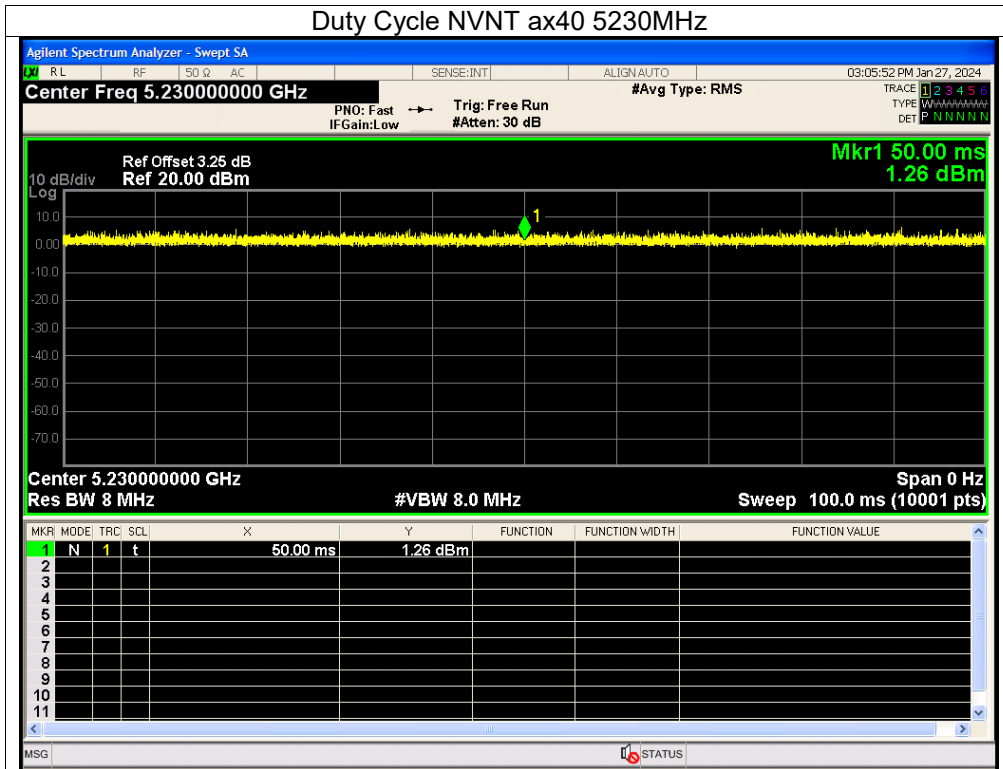




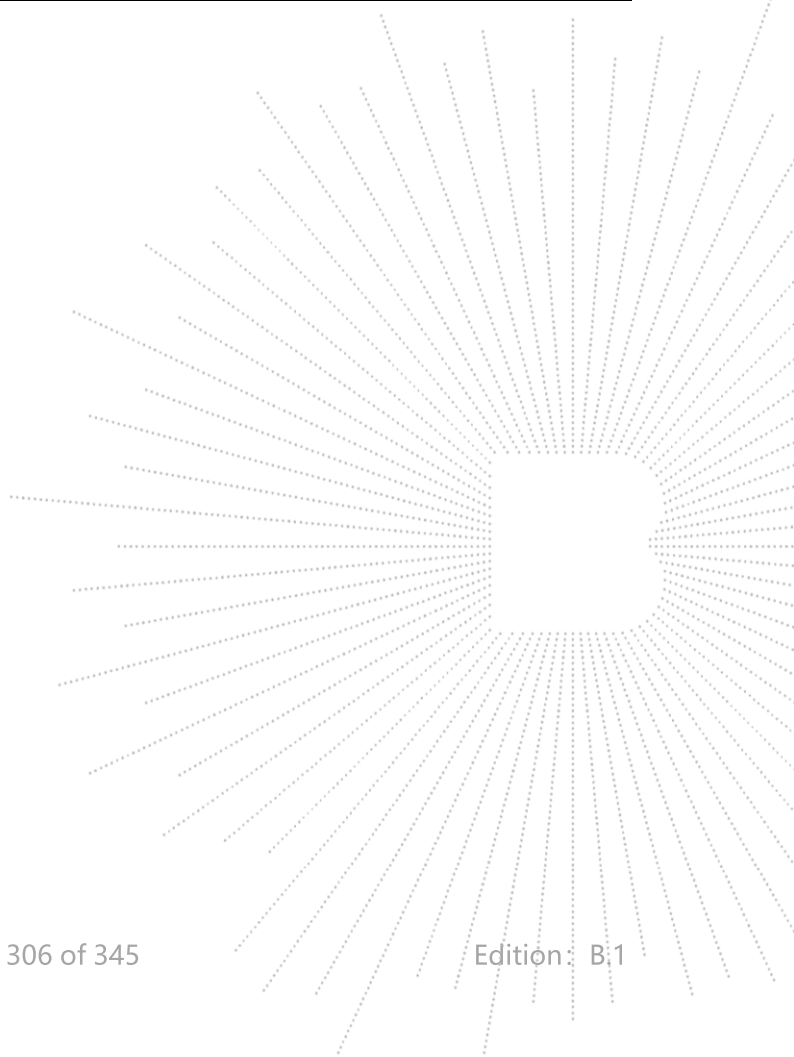




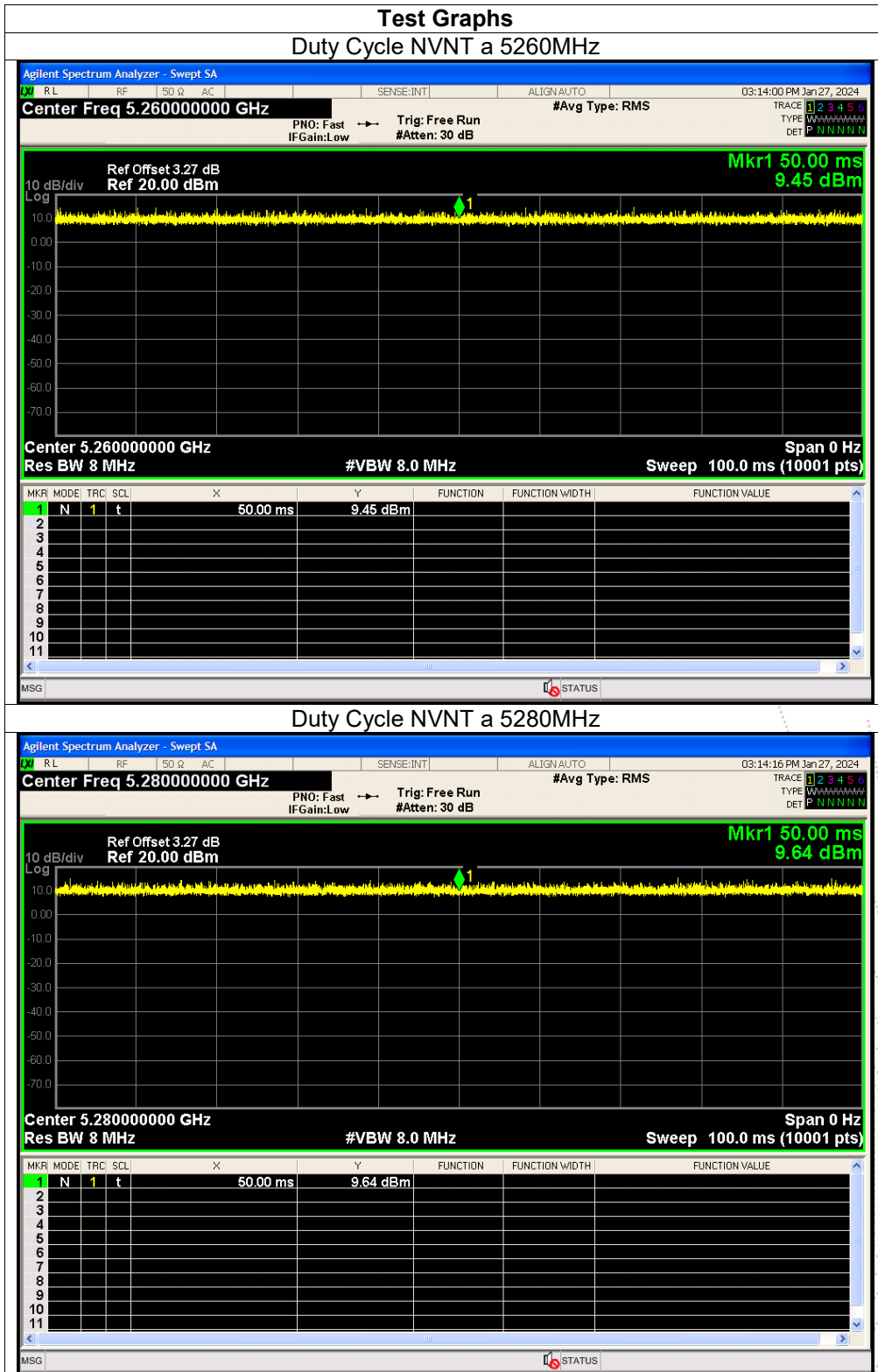


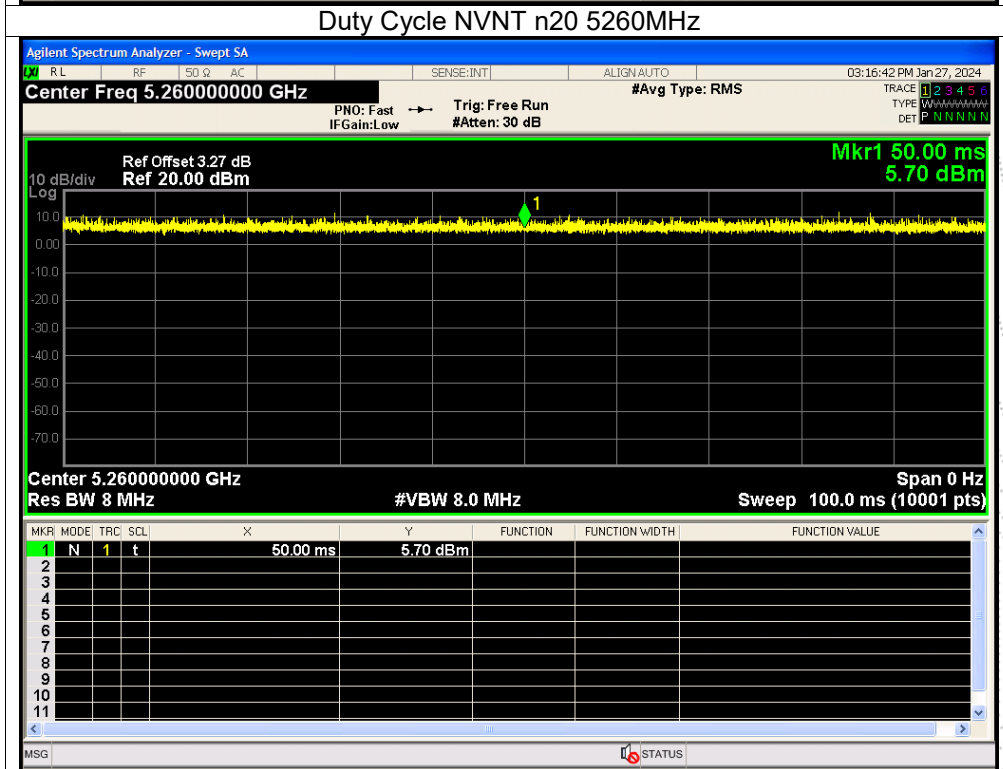
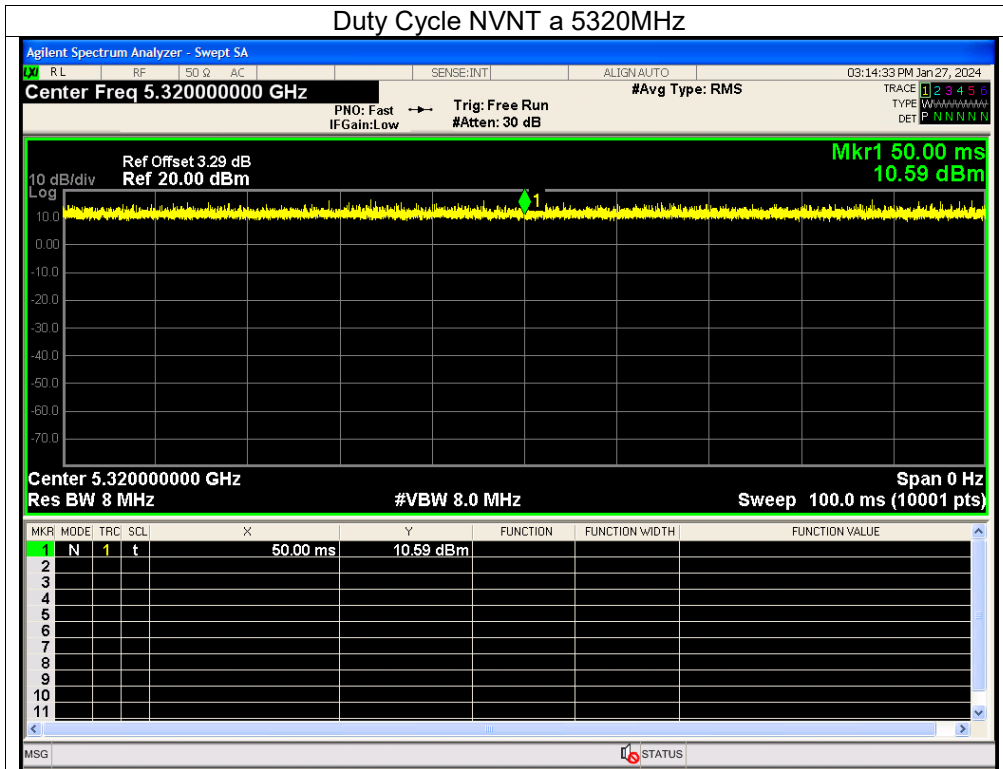


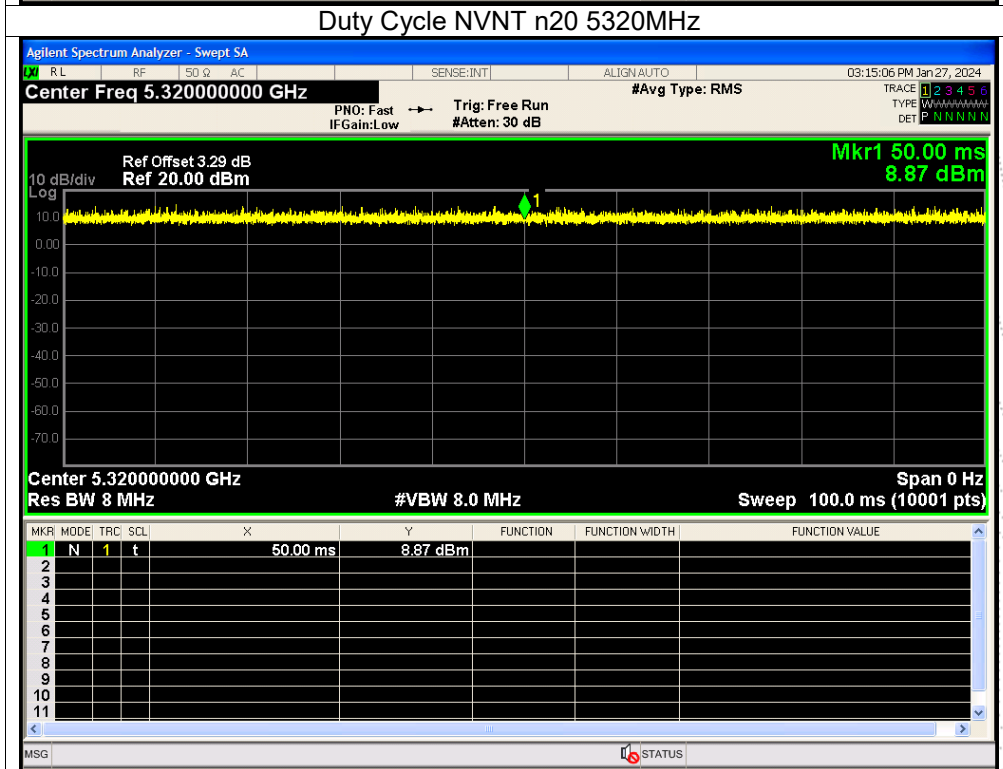
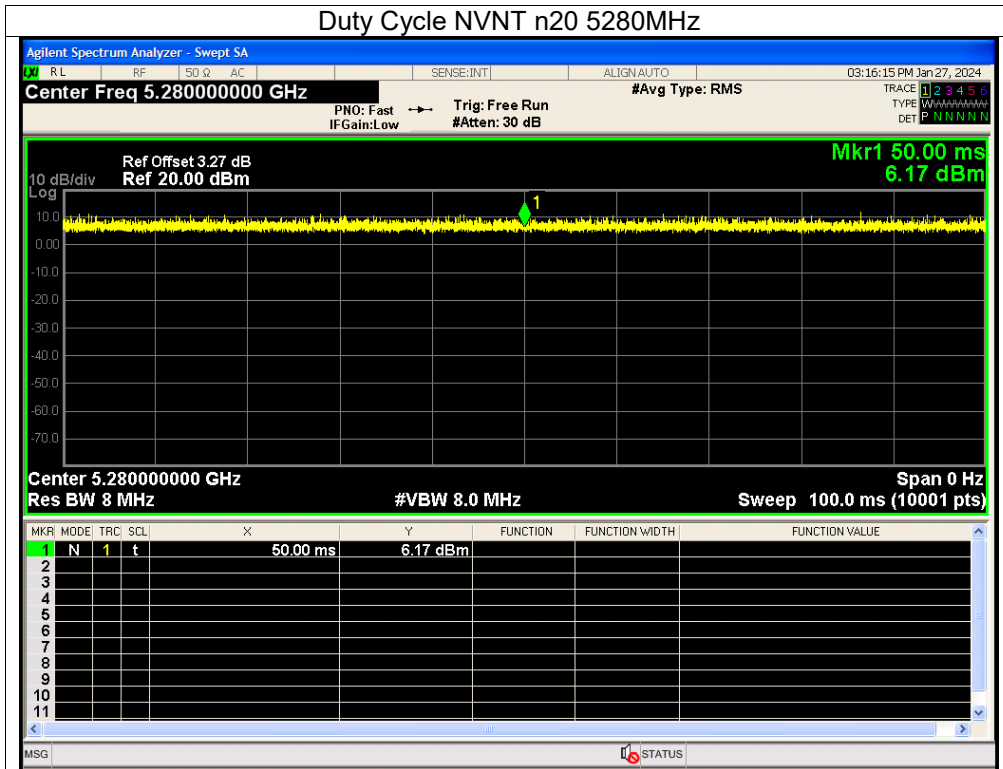
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	100	0	0
NVNT	a	5280	100	0	0
NVNT	a	5320	100	0	0
NVNT	n20	5260	100	0	0
NVNT	n20	5280	100	0	0
NVNT	n20	5320	100	0	0
NVNT	n40	5270	100	0	0
NVNT	n40	5310	100	0	0
NVNT	ac20	5260	100	0	0
NVNT	ac20	5280	100	0	0
NVNT	ac20	5320	100	0	0
NVNT	ac40	5270	100	0	0
NVNT	ac40	5310	100	0	0
NVNT	ac80	5290	100	0	0
NVNT	ax20	5260	100	0	0
NVNT	ax20	5280	100	0	0
NVNT	ax20	5320	100	0	0
NVNT	ax40	5270	100	0	0
NVNT	ax40	5310	100	0	0
NVNT	ax80	5290	100	0	0

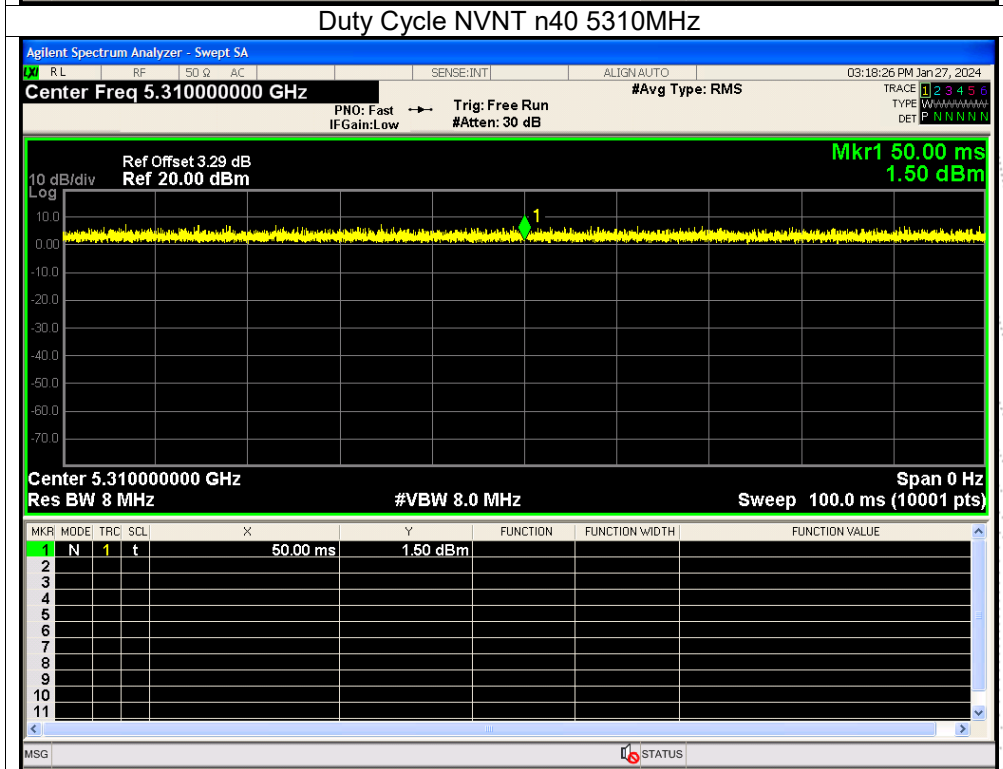
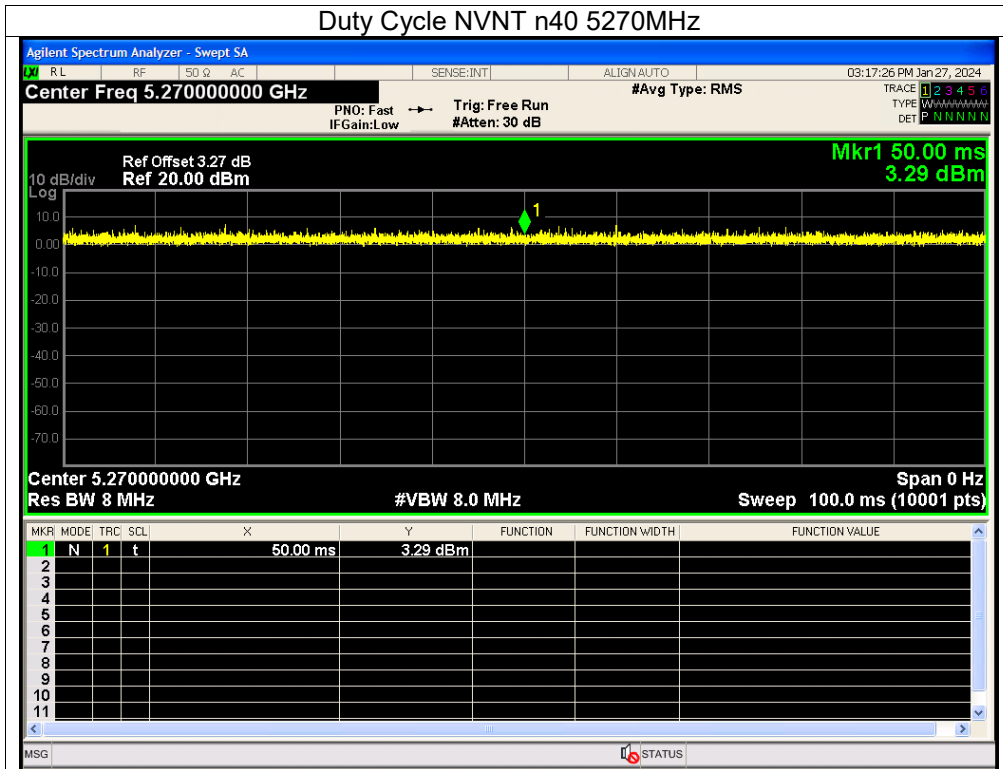


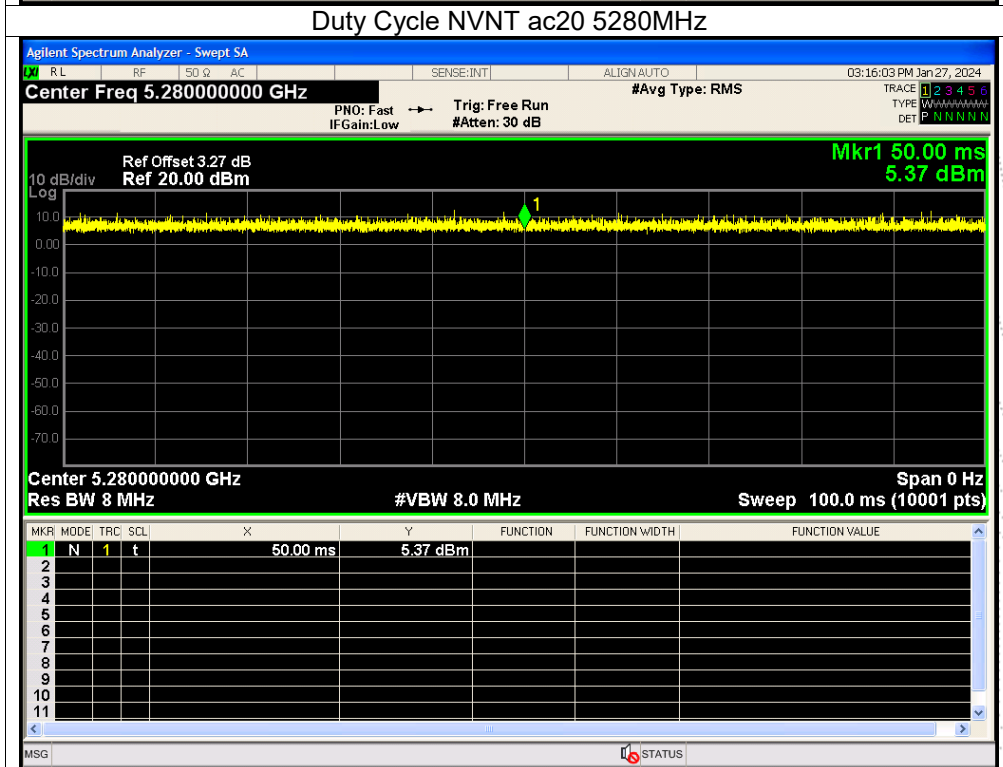
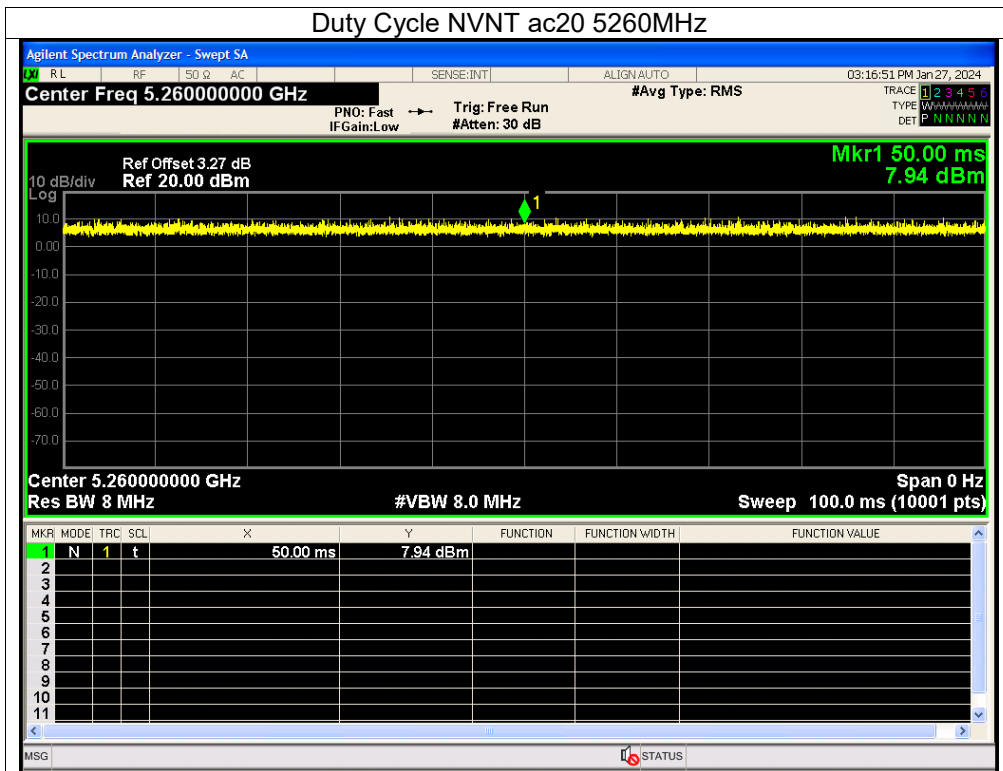
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A . Plot.

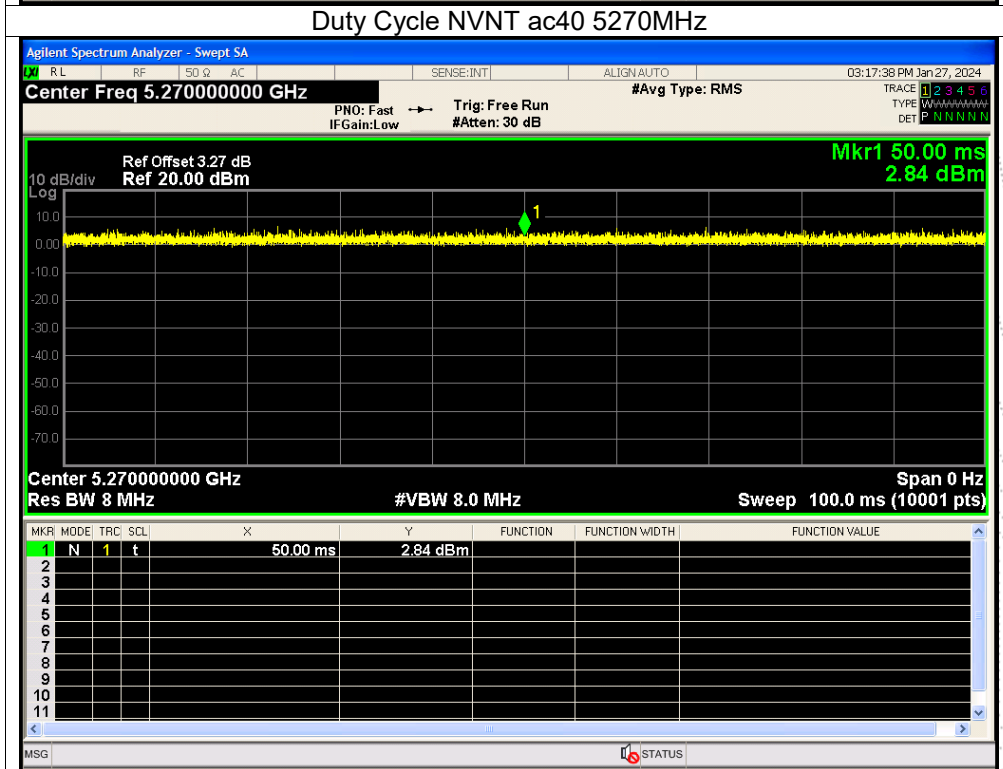
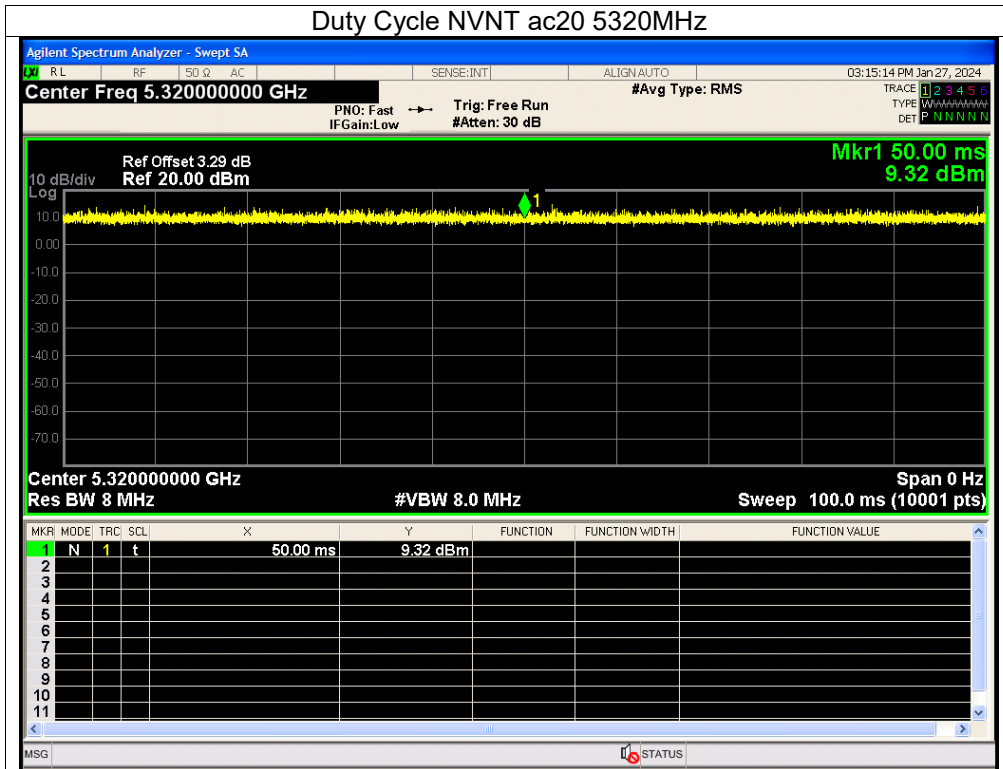


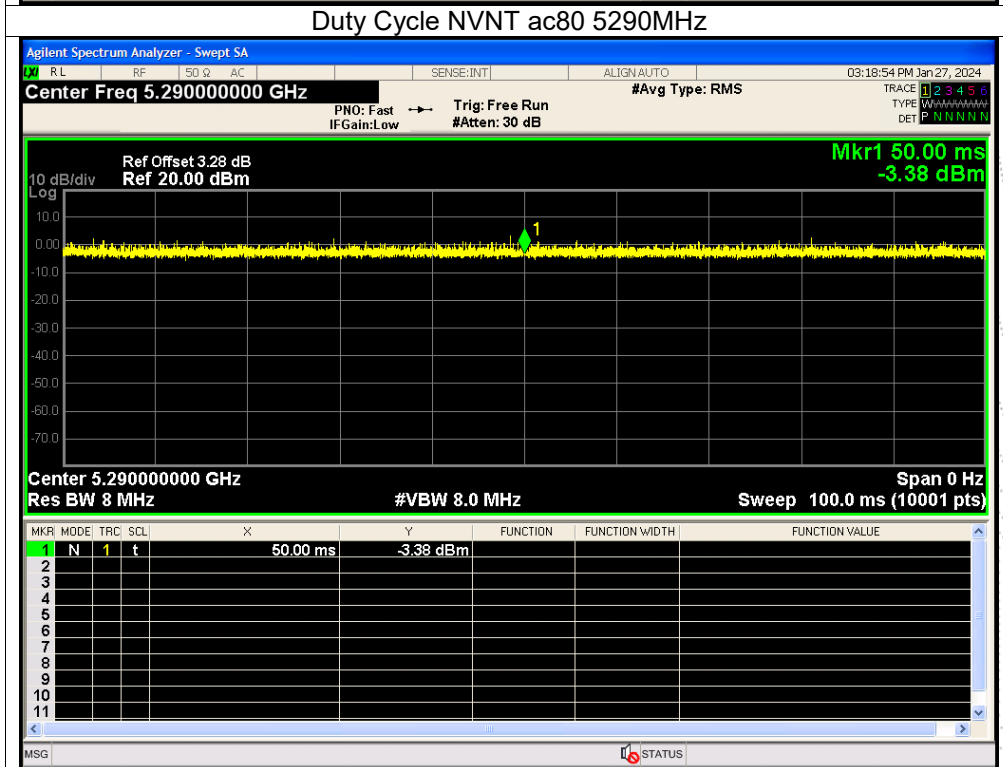
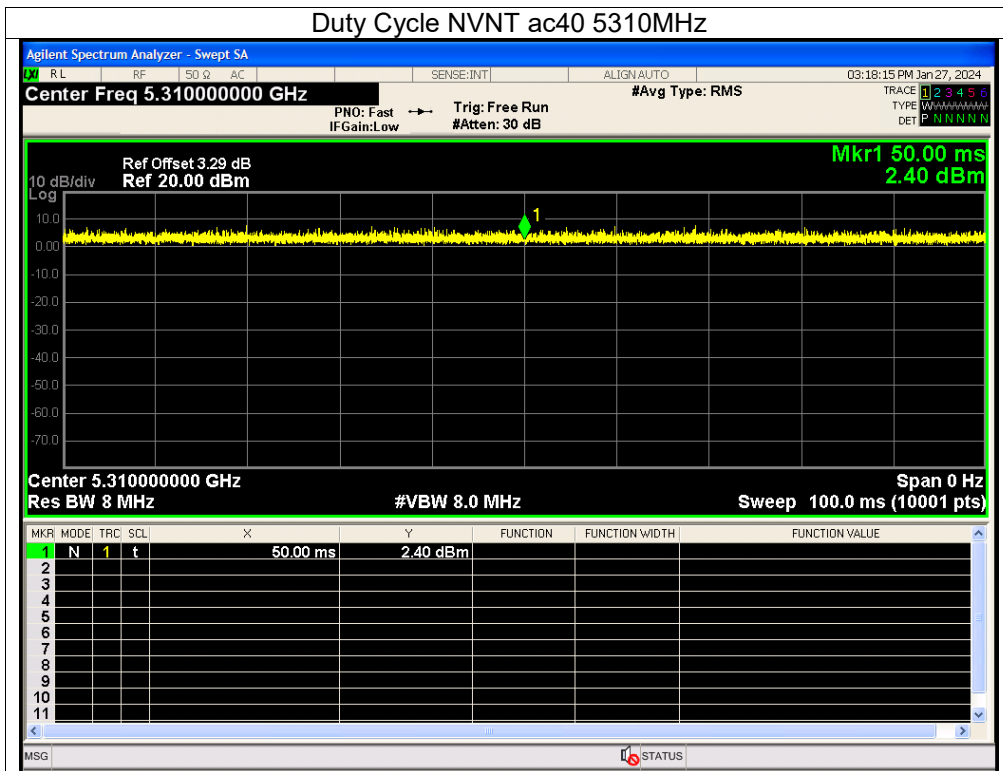


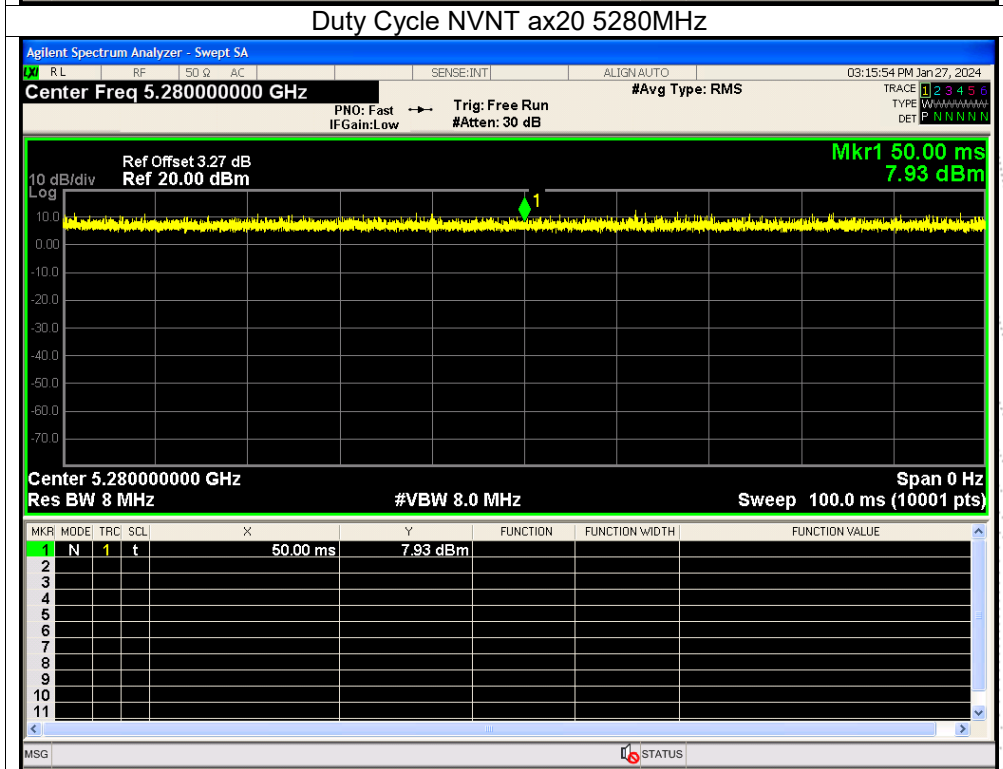
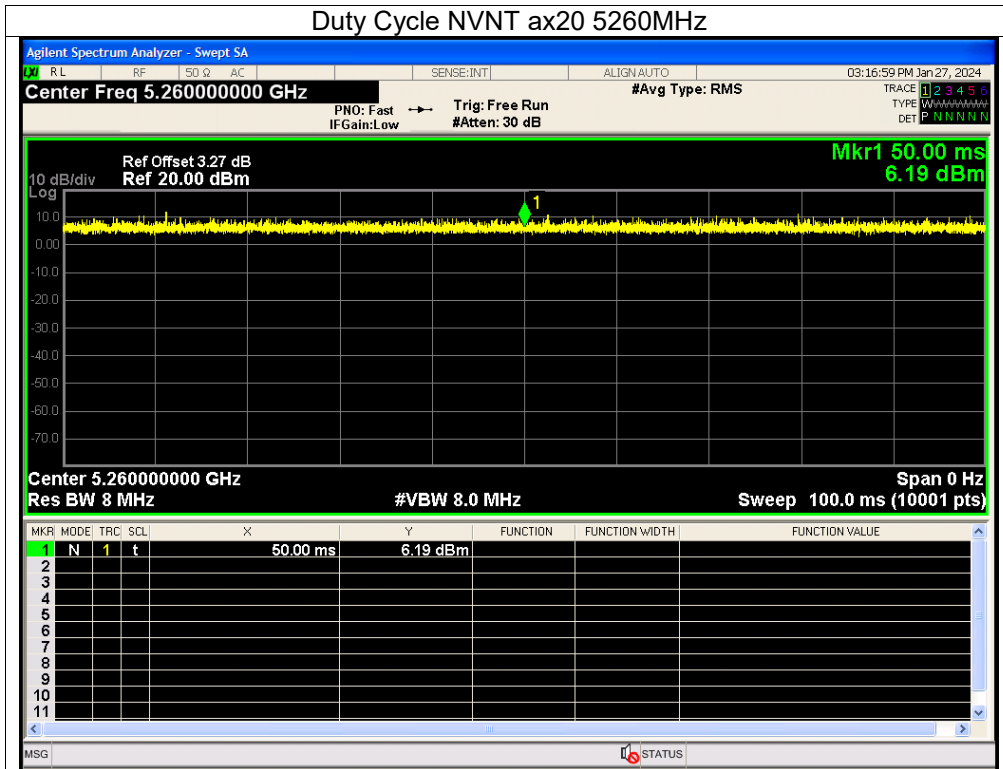


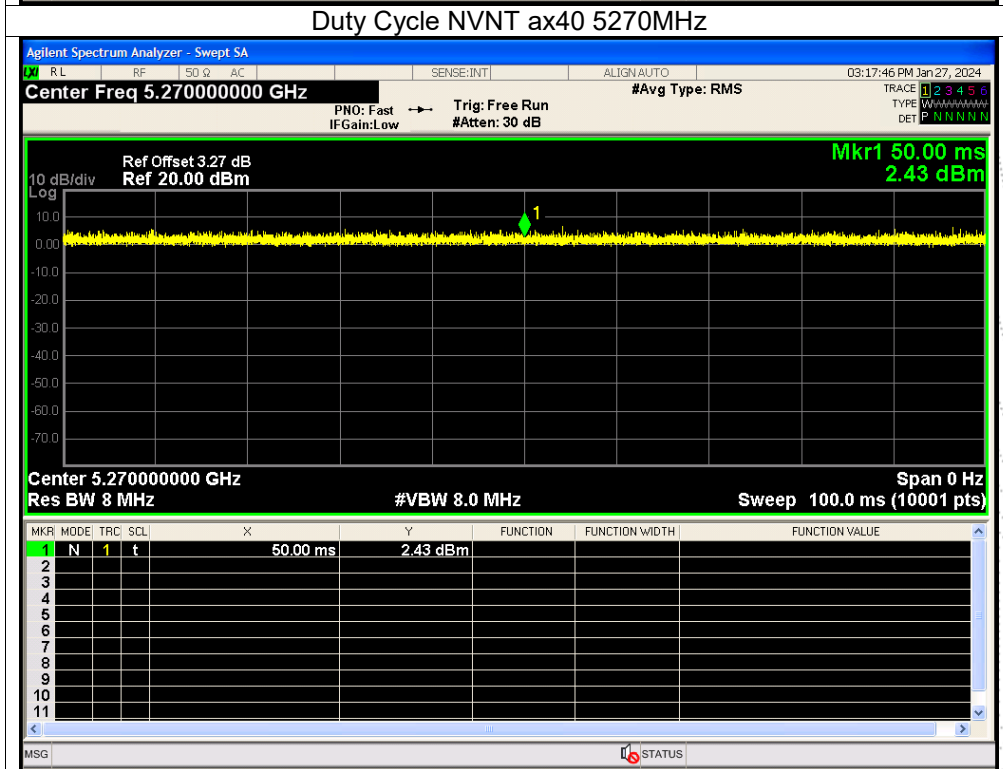
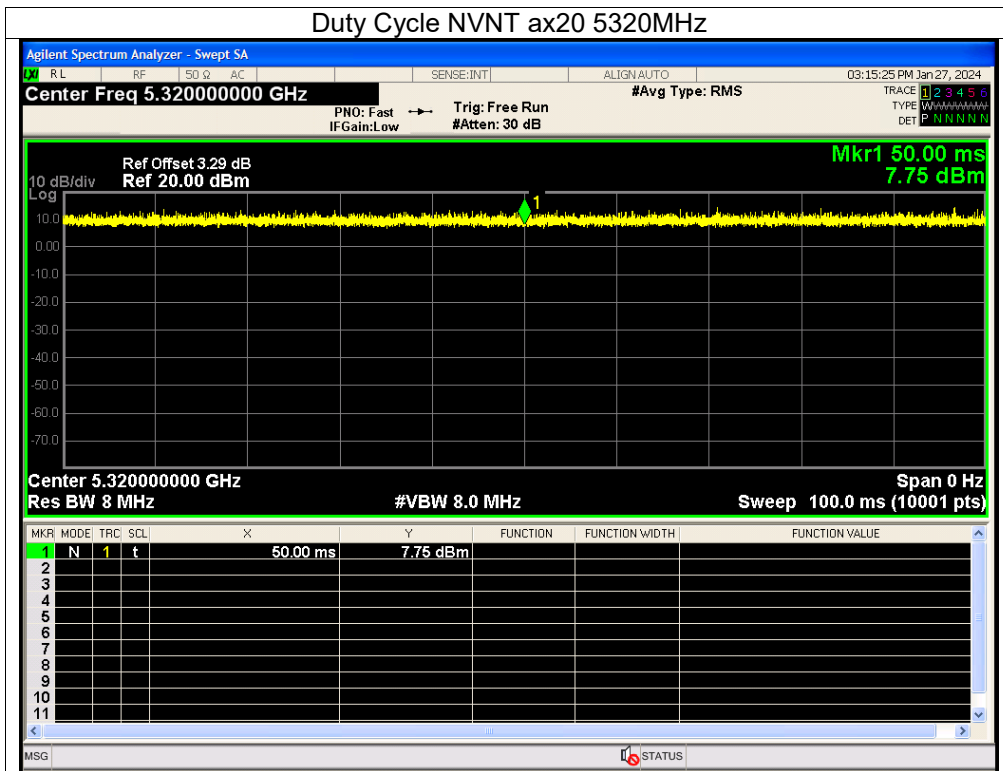


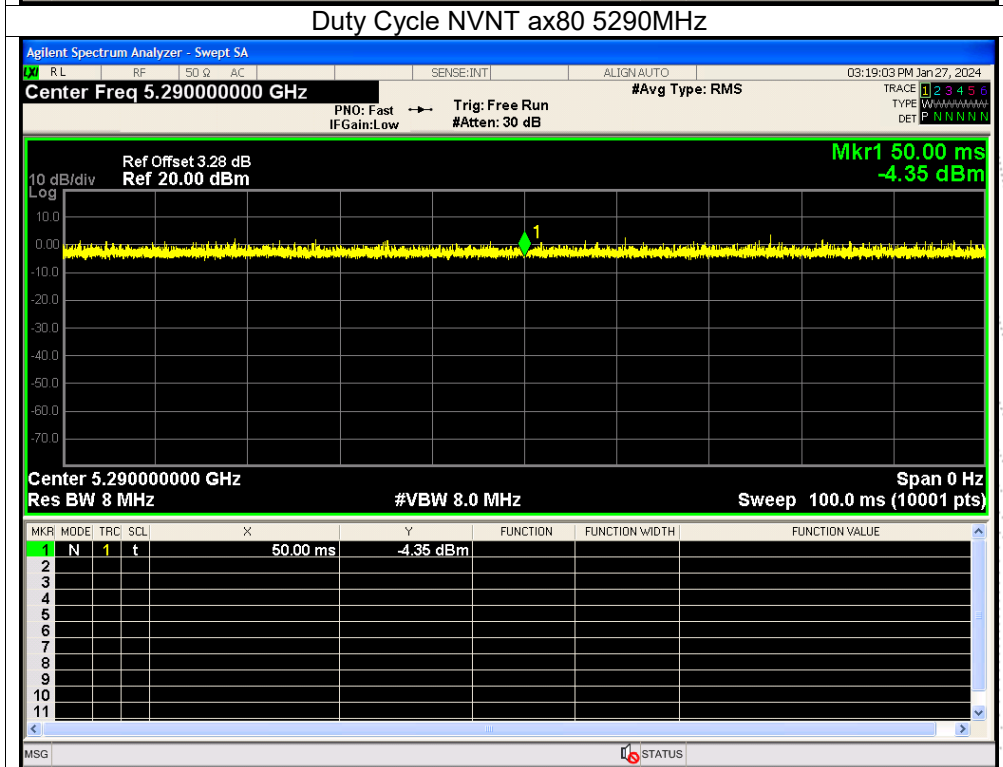
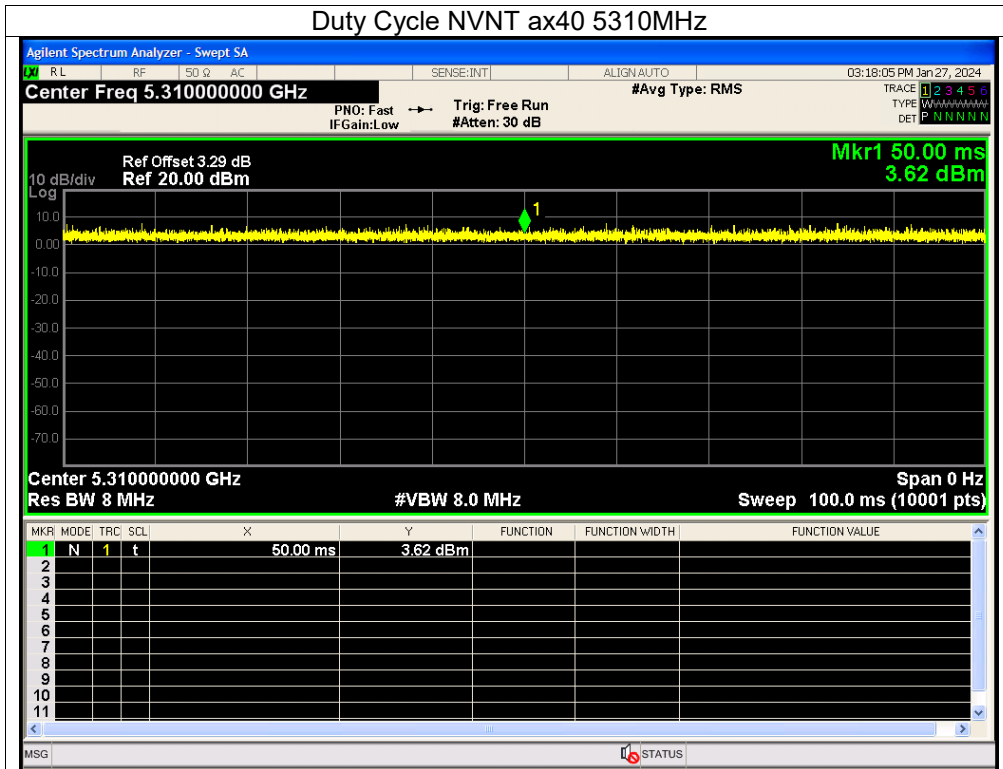




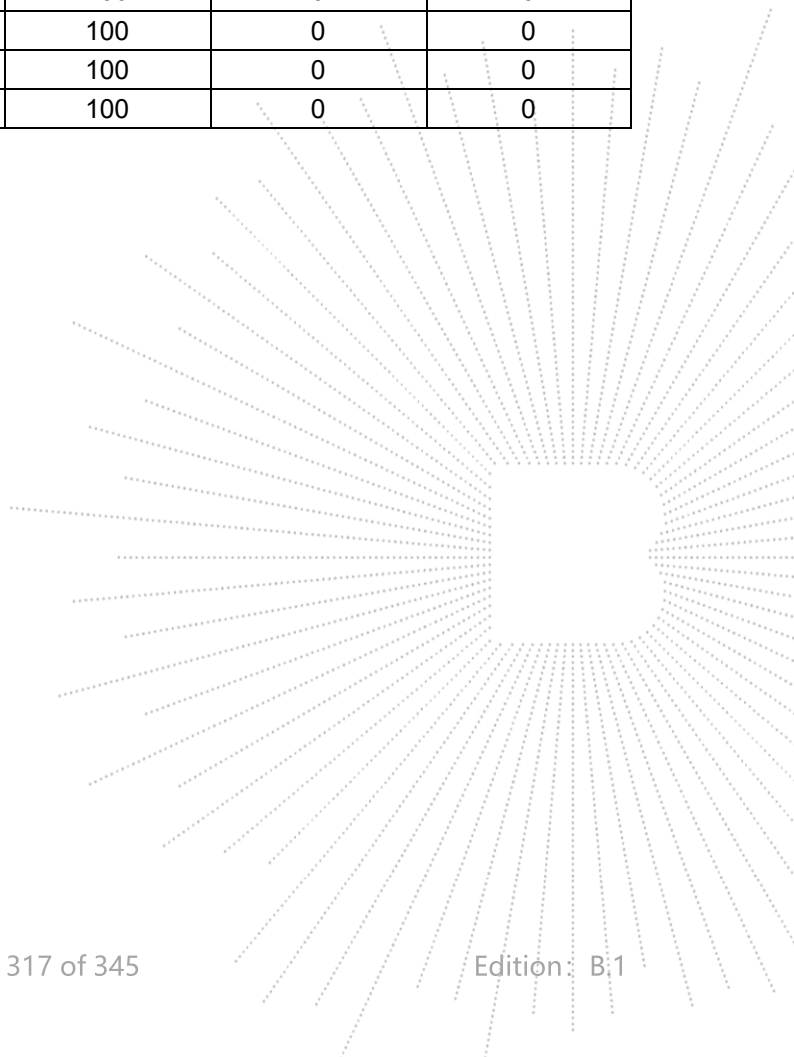




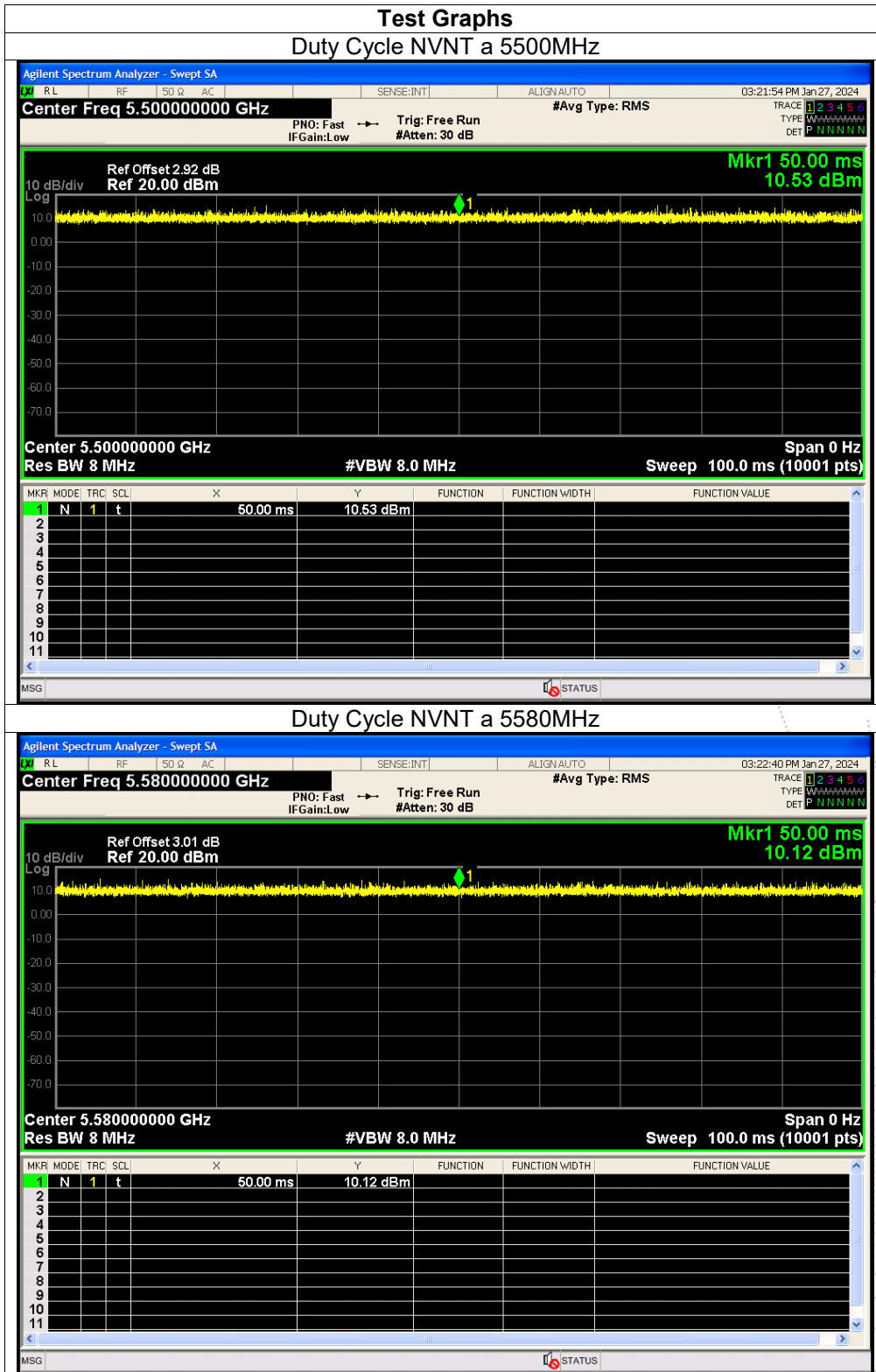


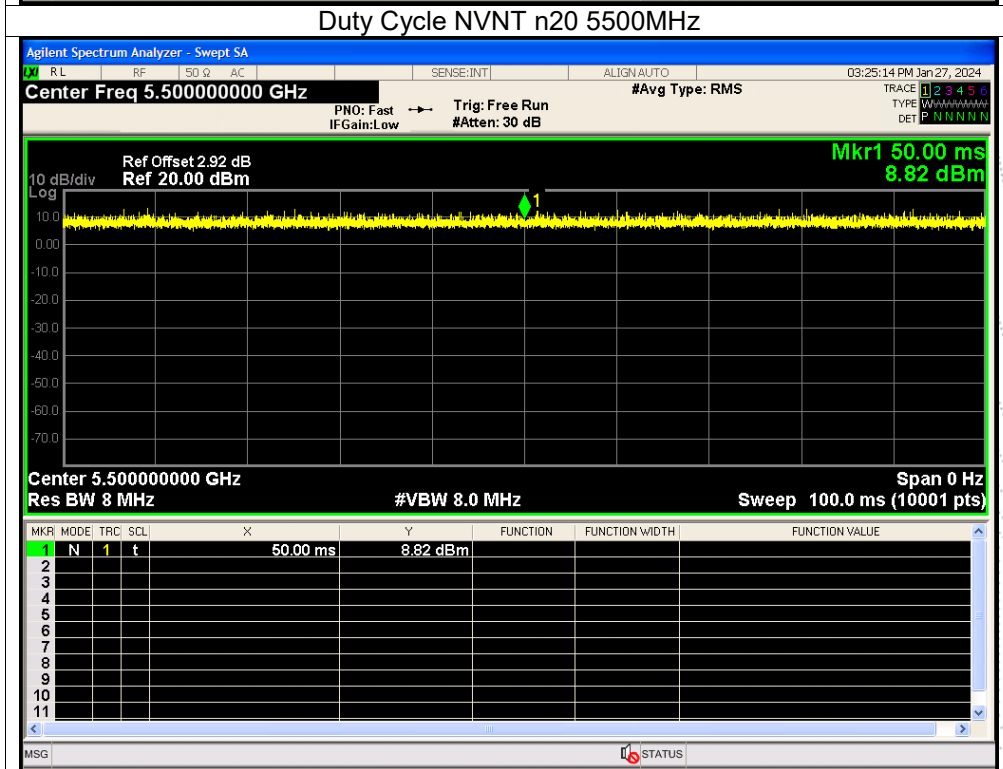
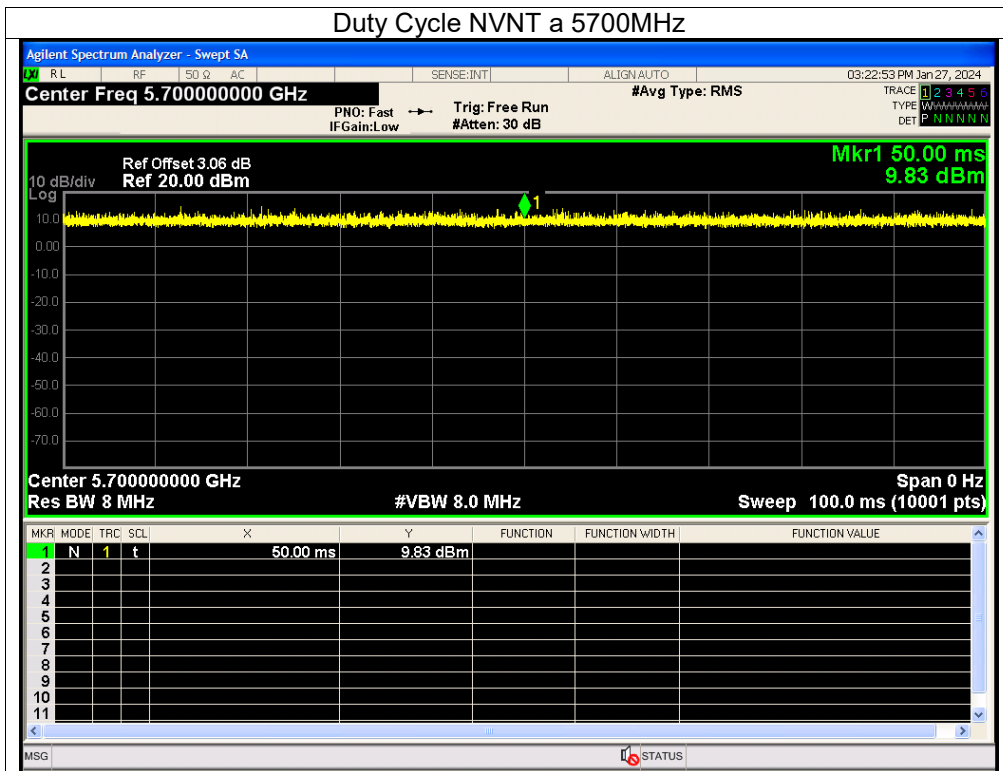


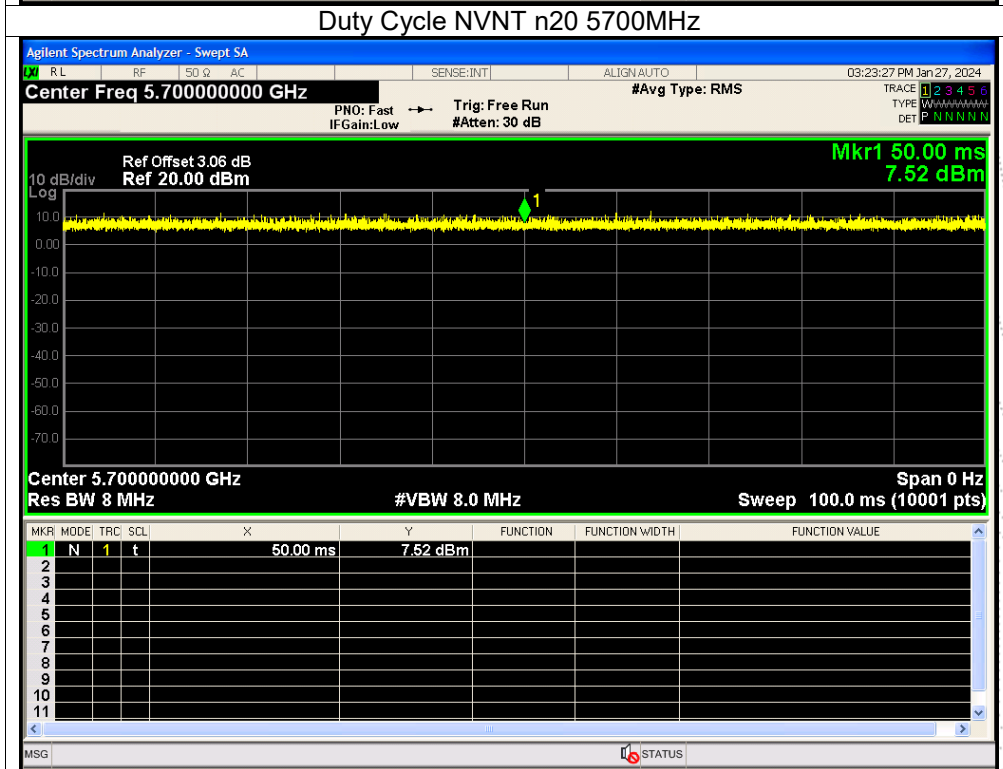
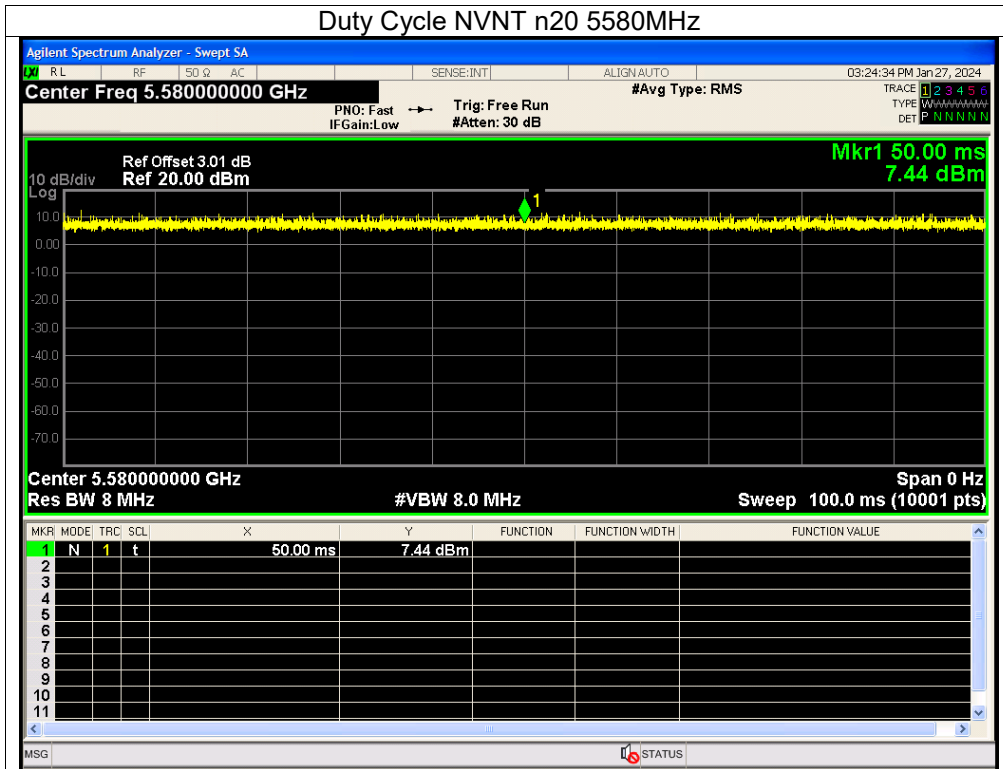
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	100	0	0
NVNT	a	5580	100	0	0
NVNT	a	5700	100	0	0
NVNT	n20	5500	100	0	0
NVNT	n20	5580	100	0	0
NVNT	n20	5700	100	0	0
NVNT	n40	5510	100	0	0
NVNT	n40	5550	100	0	0
NVNT	n40	5670	100	0	0
NVNT	ac20	5500	100	0	0
NVNT	ac20	5580	100	0	0
NVNT	ac20	5700	100	0	0
NVNT	ac40	5510	100	0	0
NVNT	ac40	5550	100	0	0
NVNT	ac40	5670	100	0	0
NVNT	ac80	5530	100	0	0
NVNT	ax20	5500	100	0	0
NVNT	ax20	5580	100	0	0
NVNT	ax20	5700	100	0	0
NVNT	ax40	5510	100	0	0
NVNT	ax40	5550	100	0	0
NVNT	ax40	5670	100	0	0
NVNT	ax80	5530	100	0	0

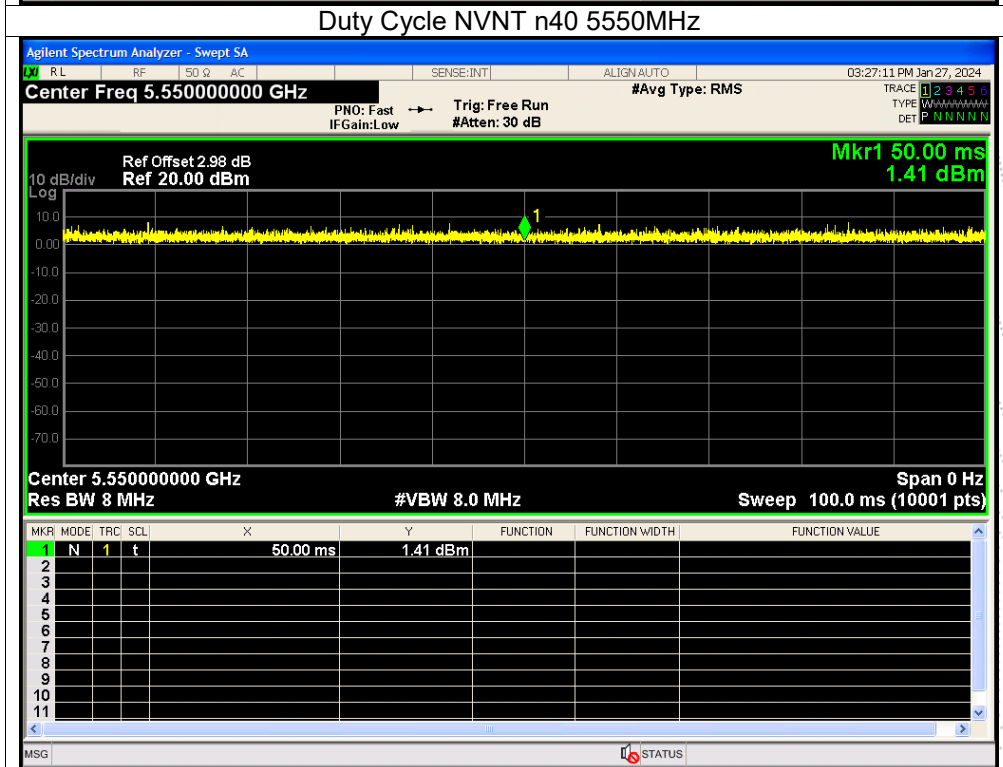
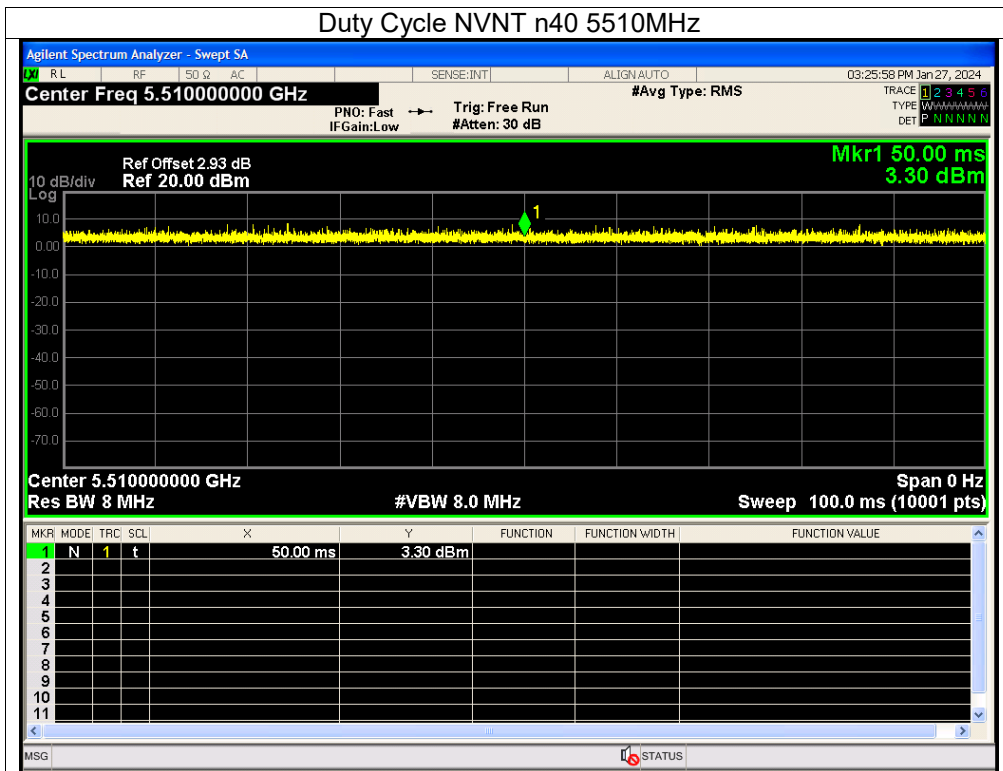


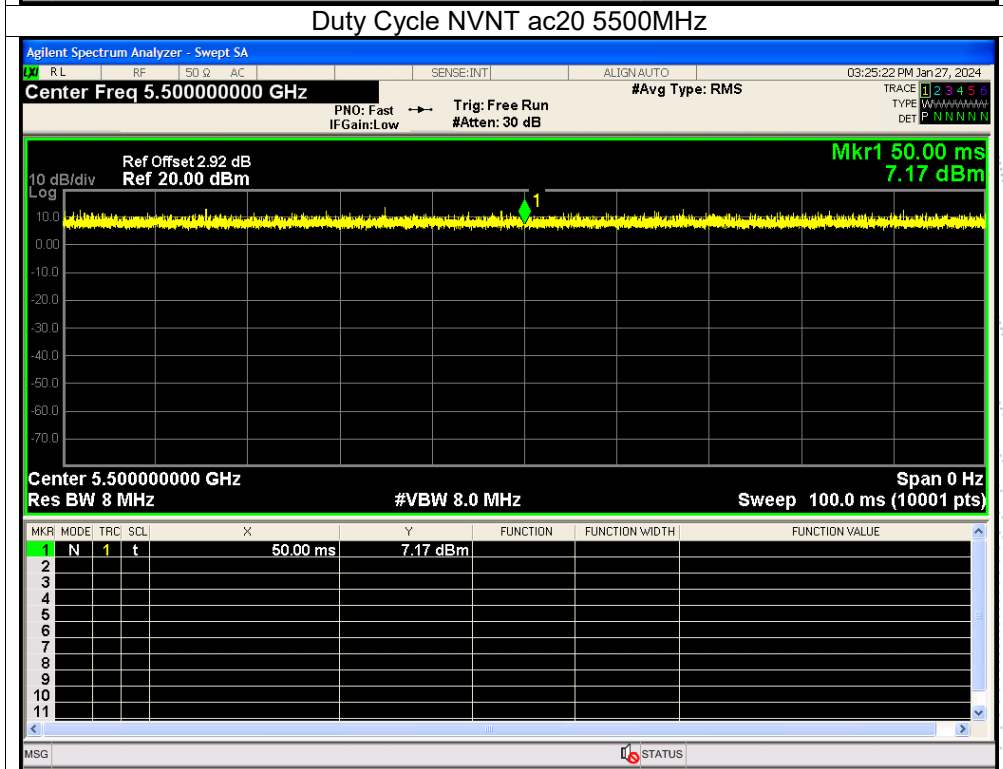
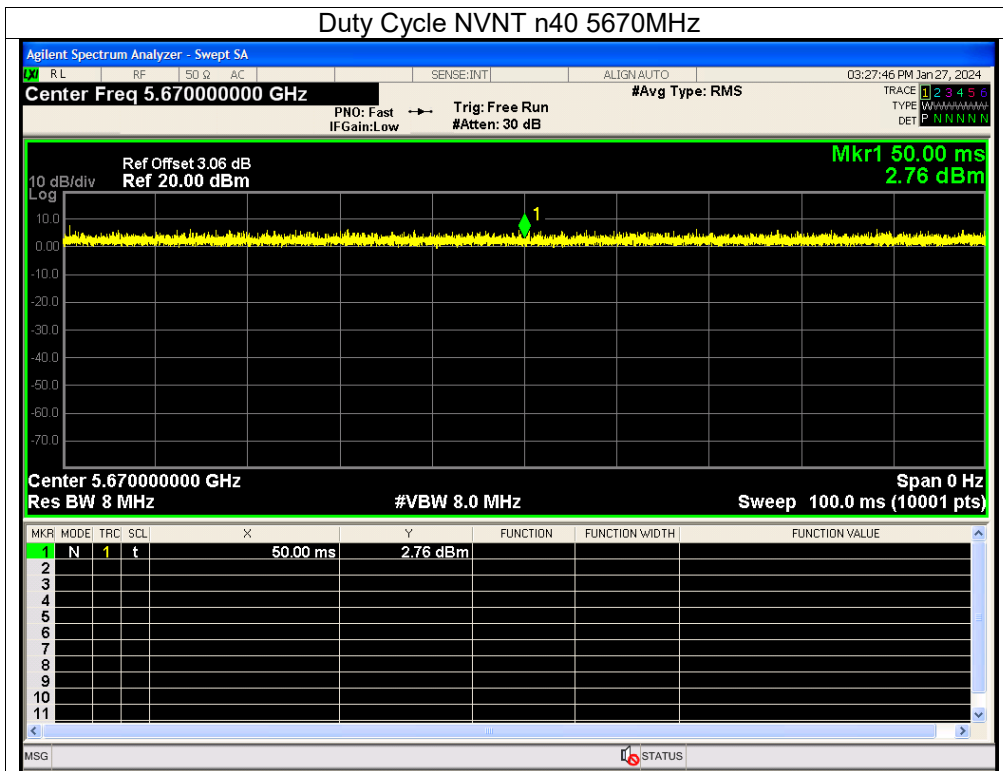
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A. Plot.

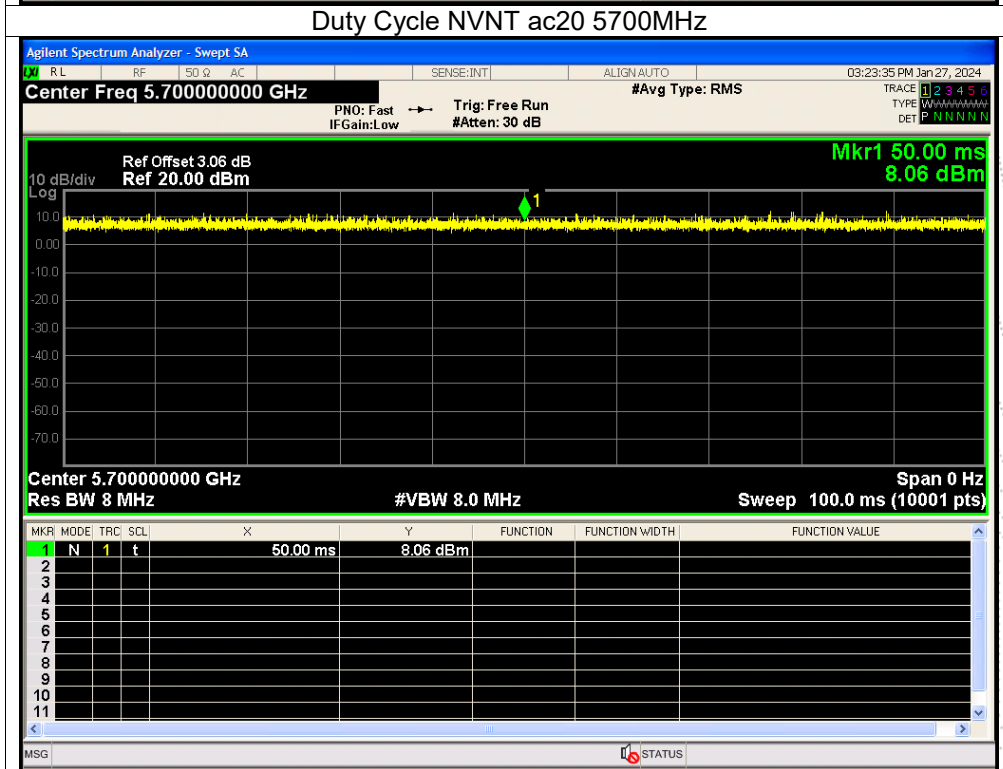
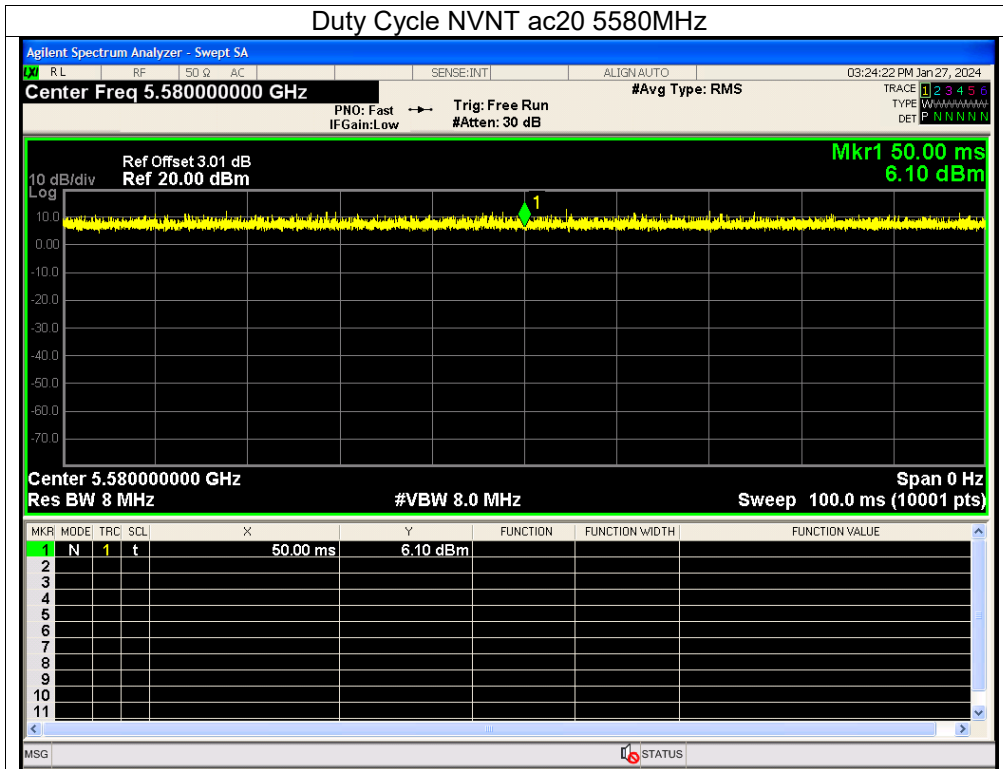


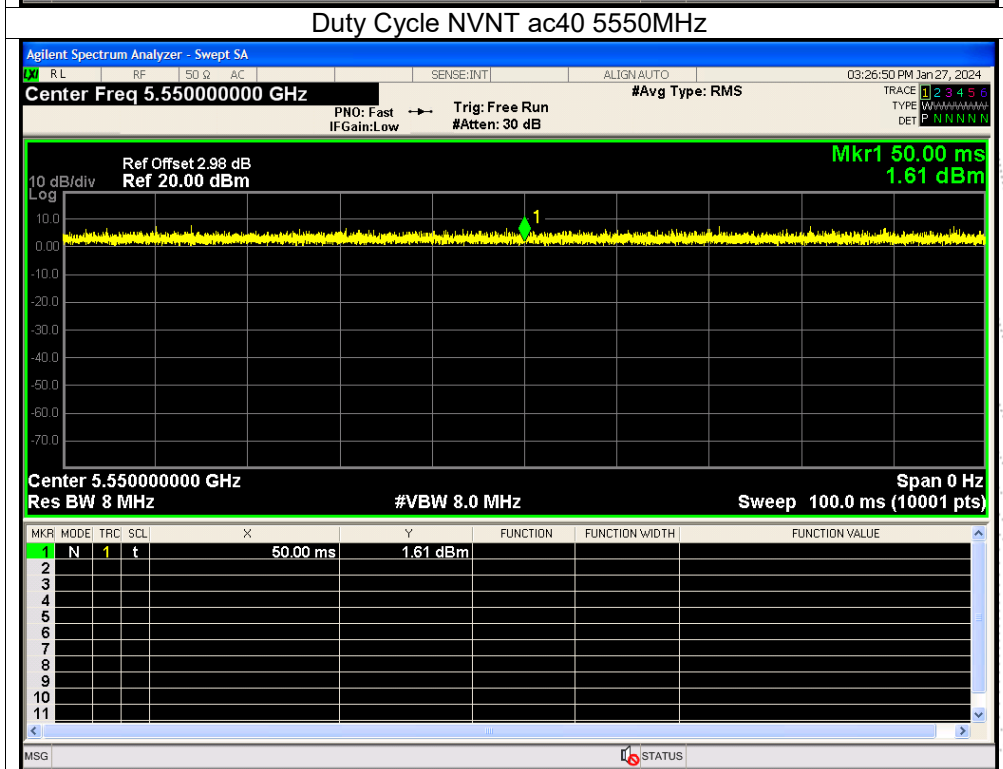
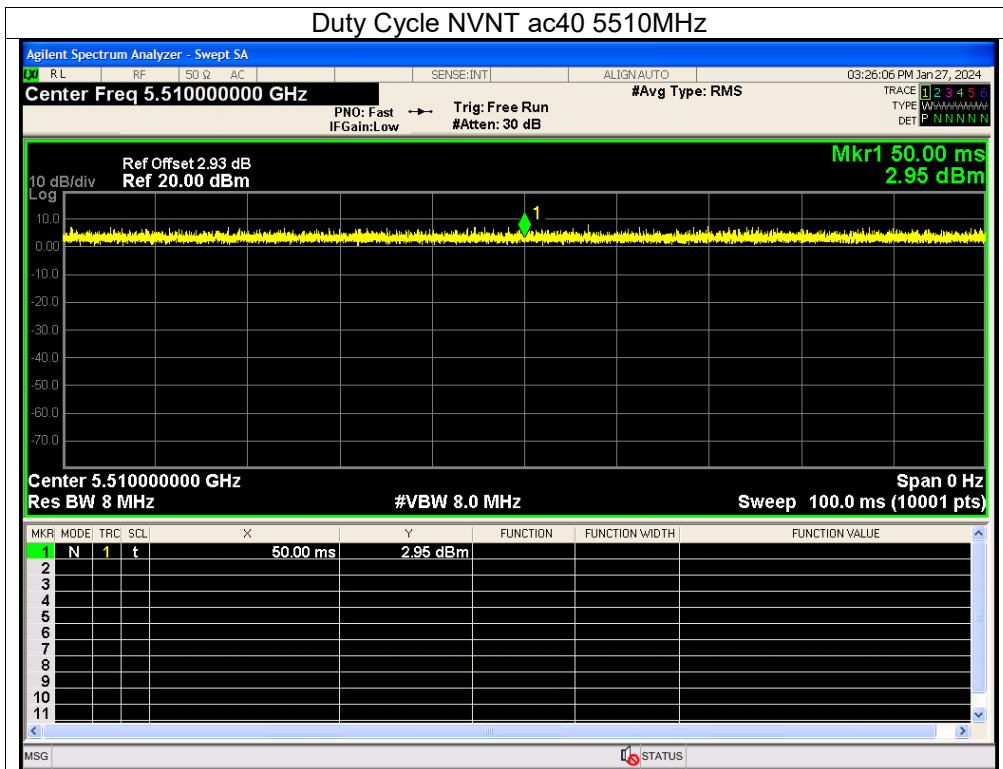


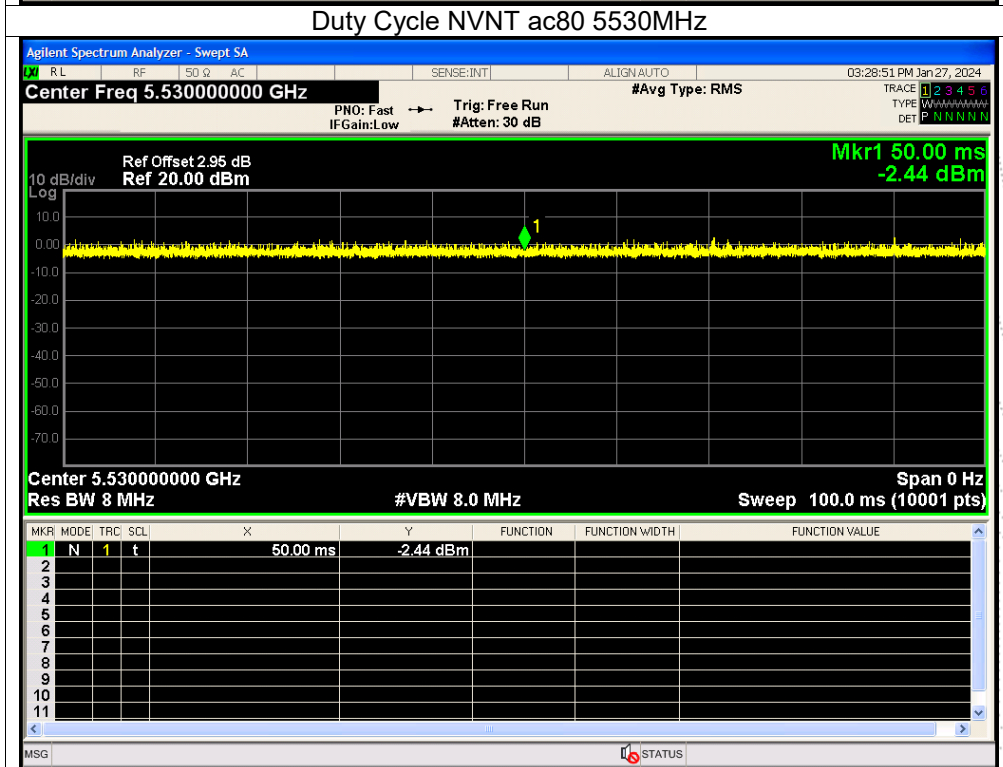
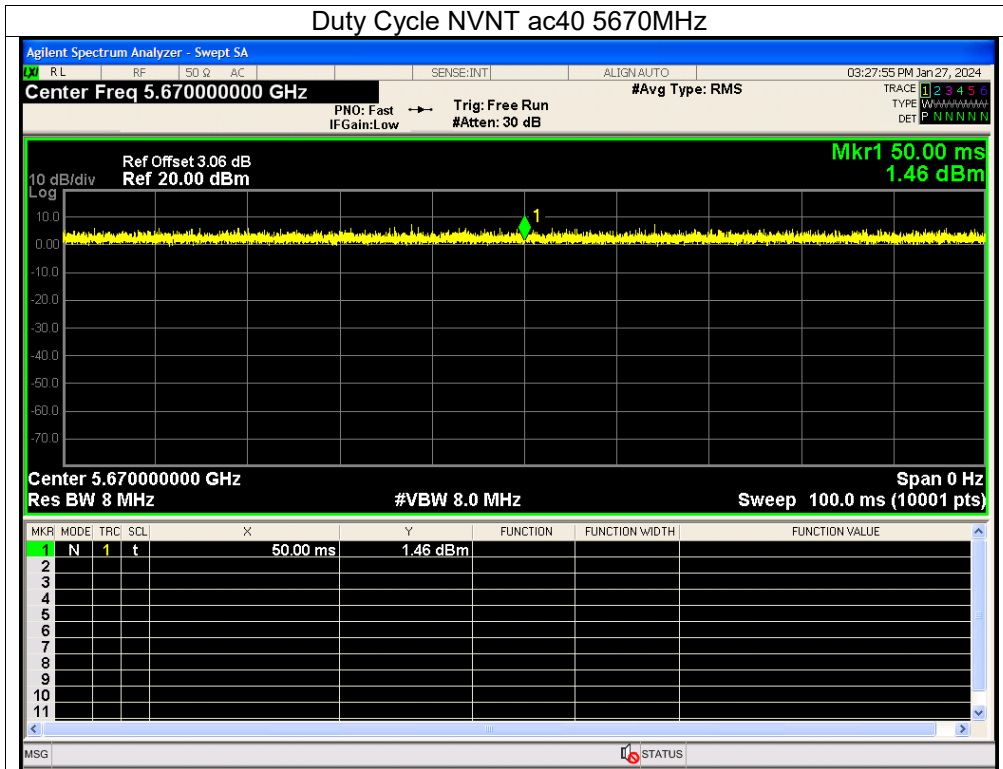


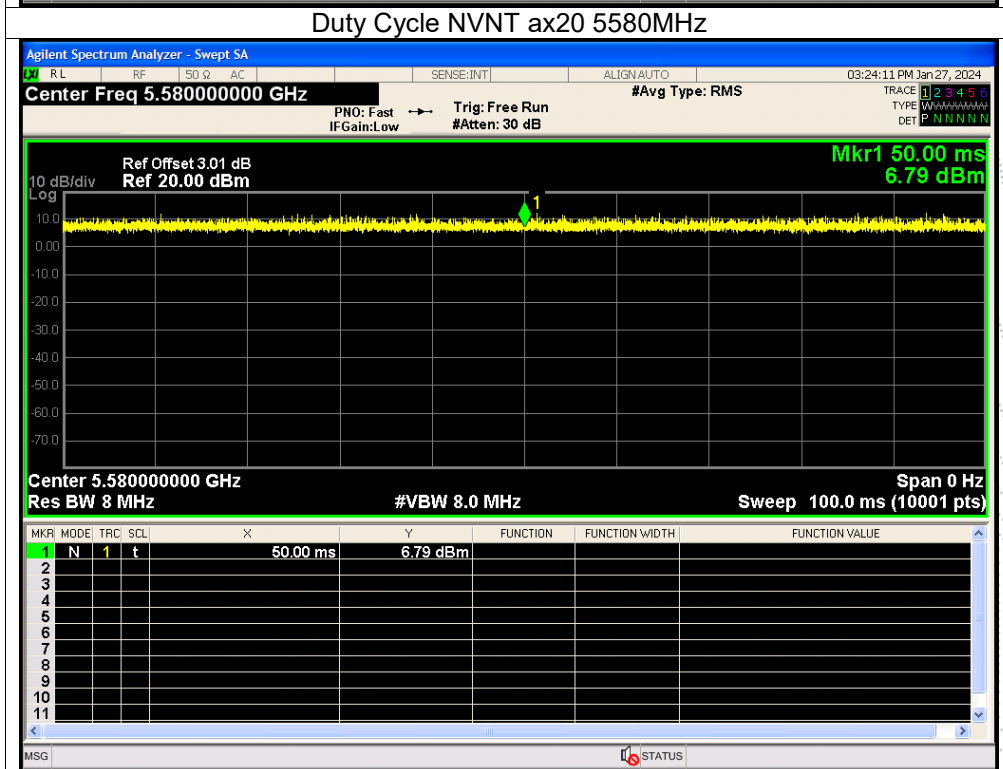
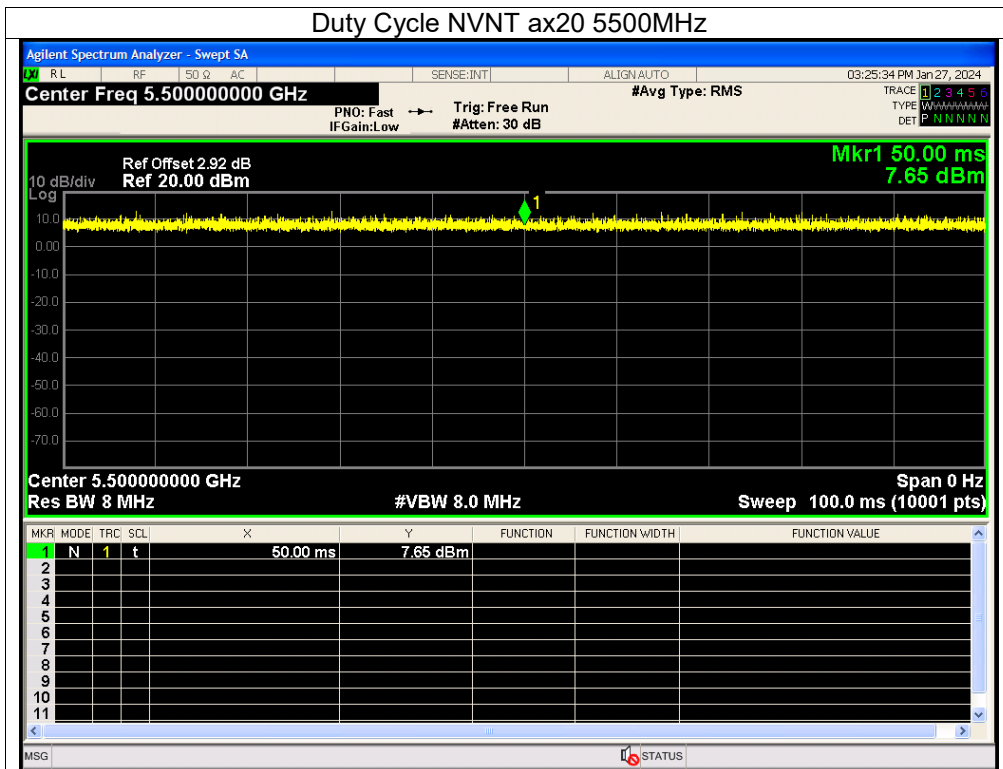


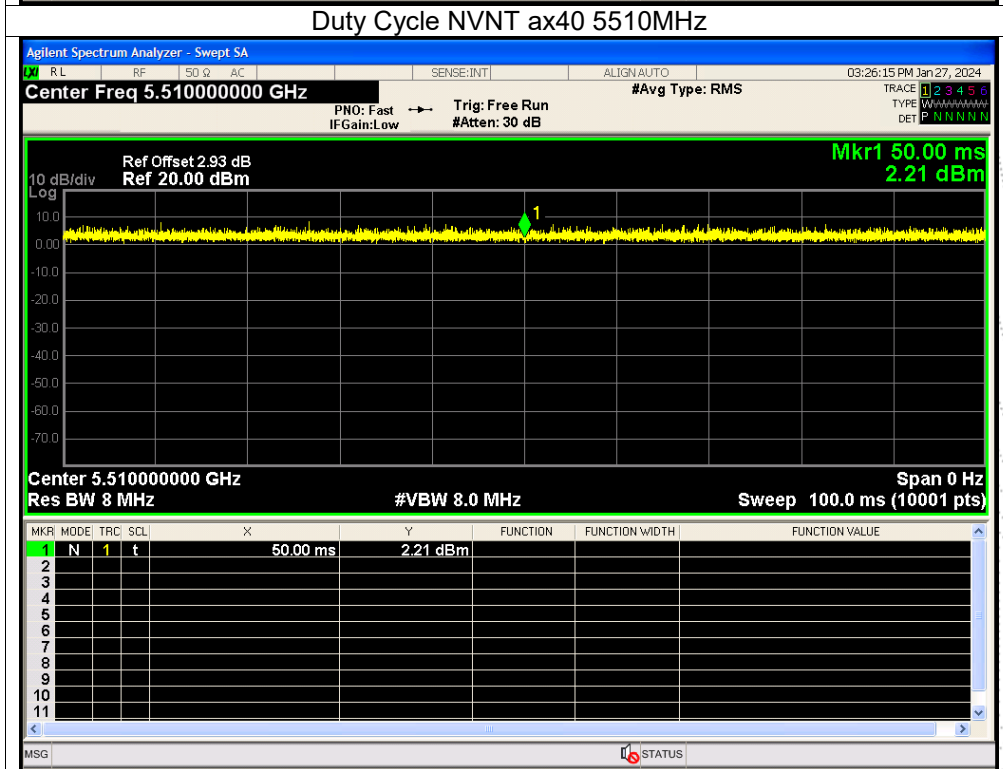
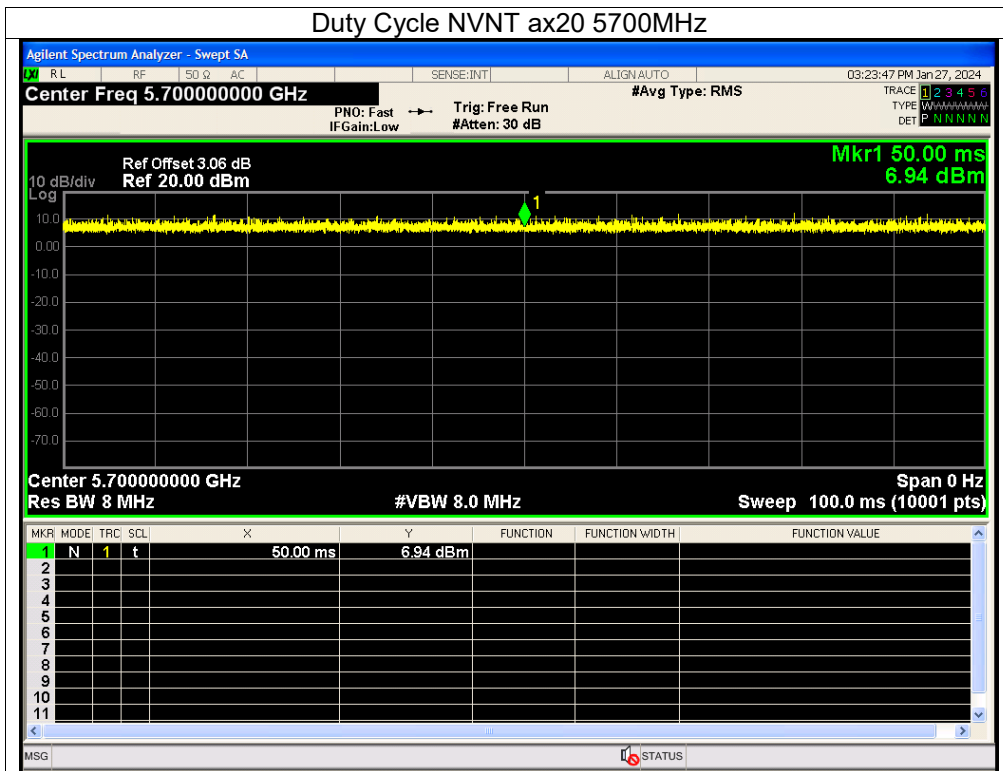


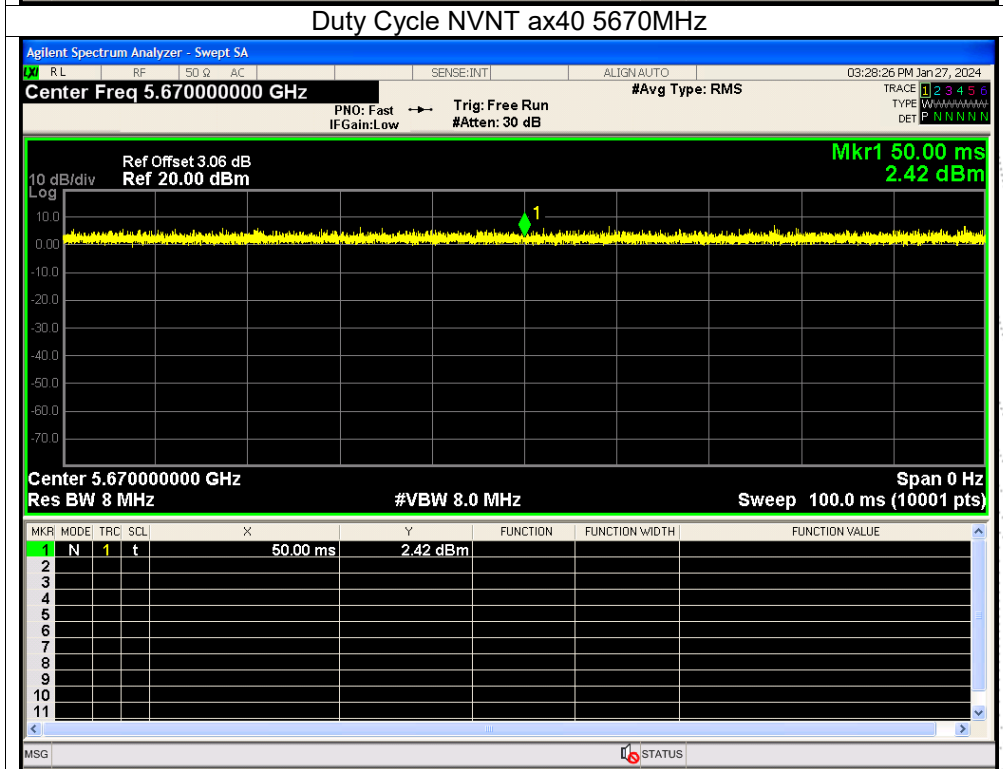
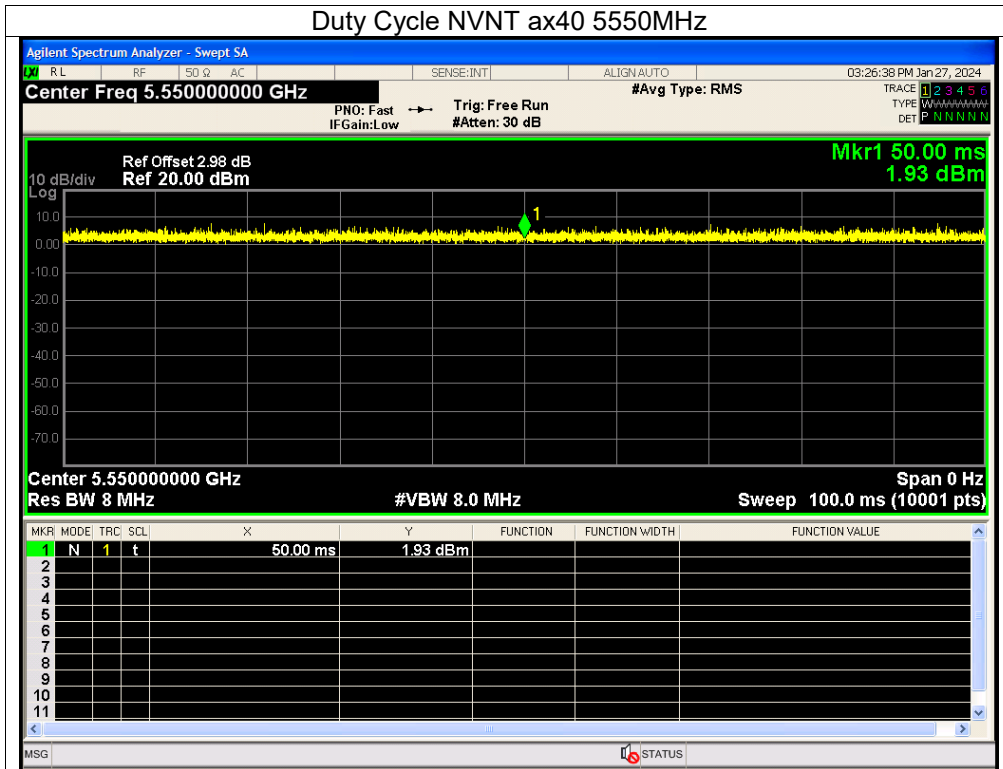


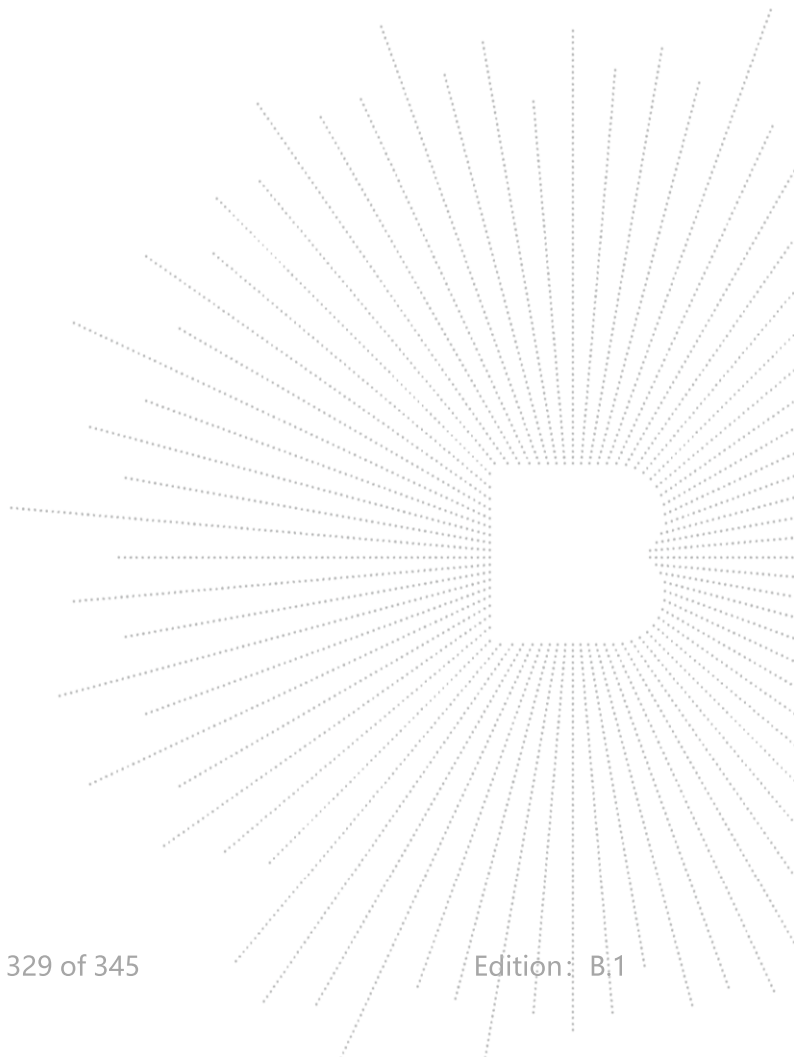
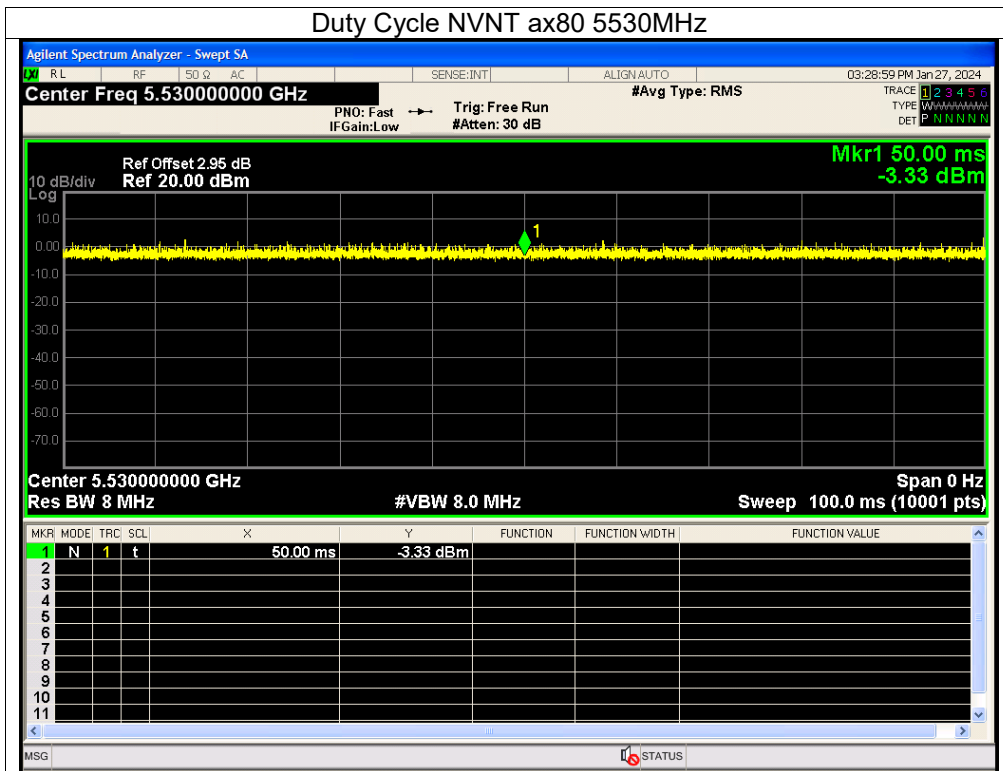




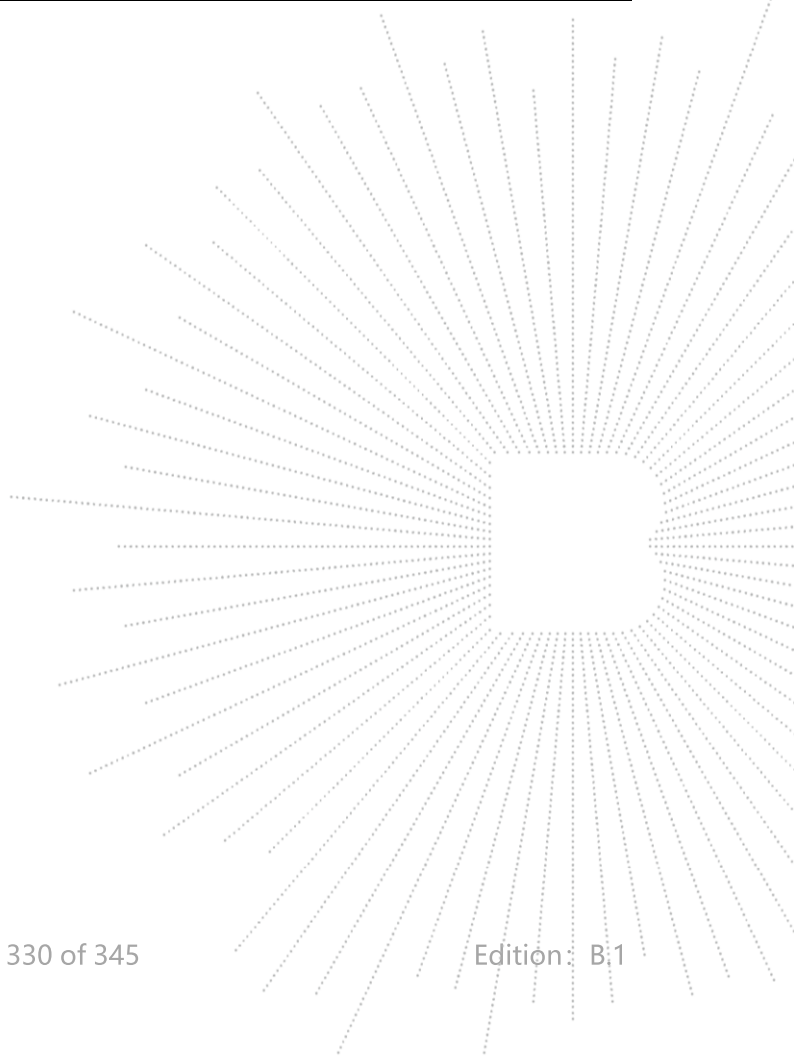




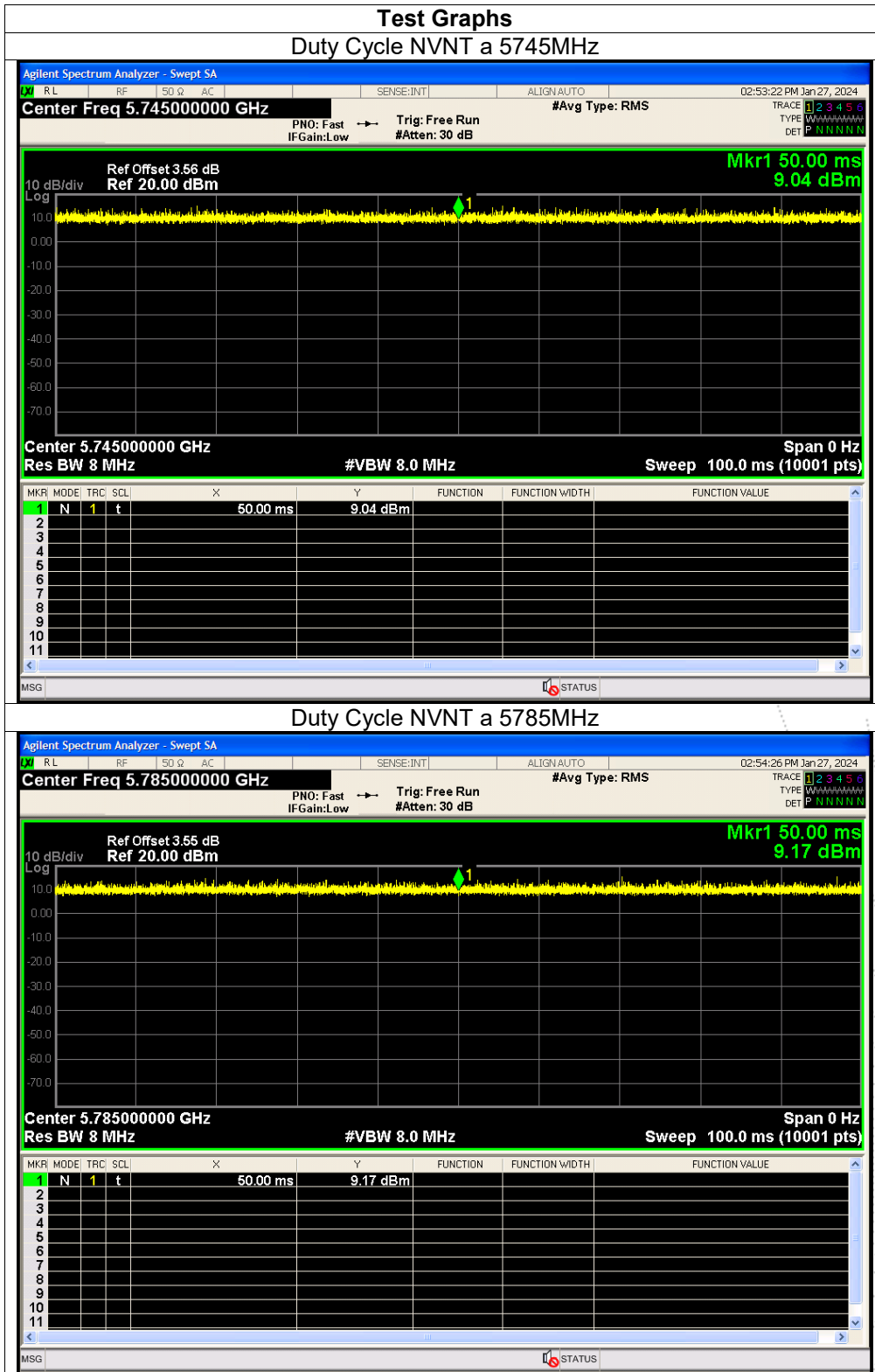


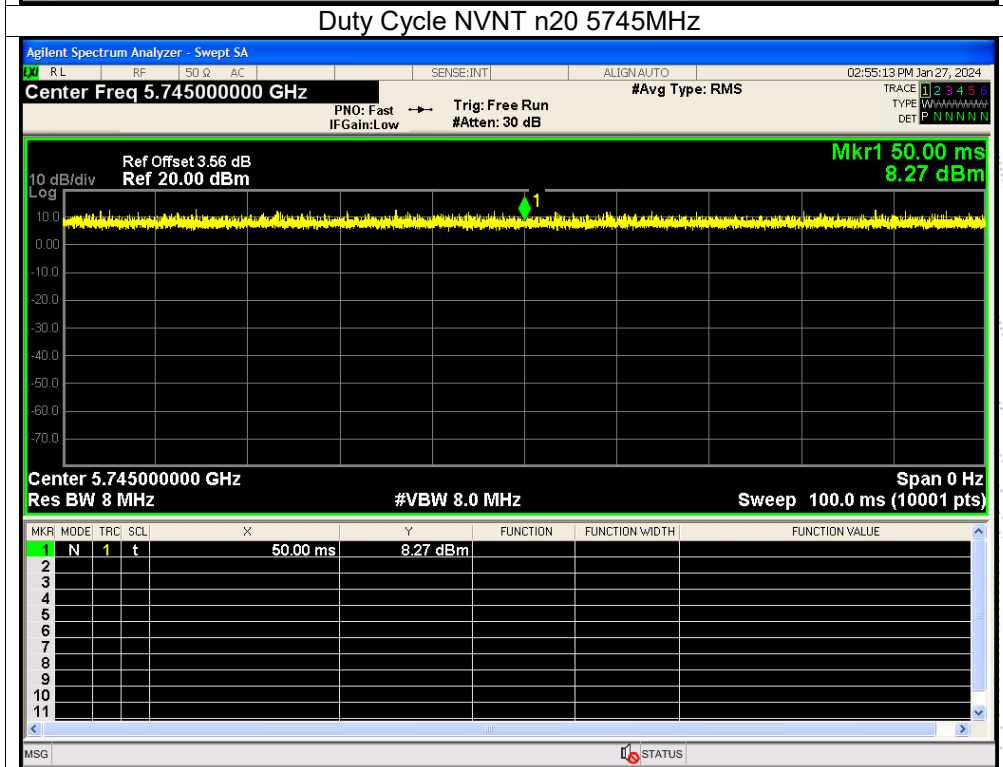
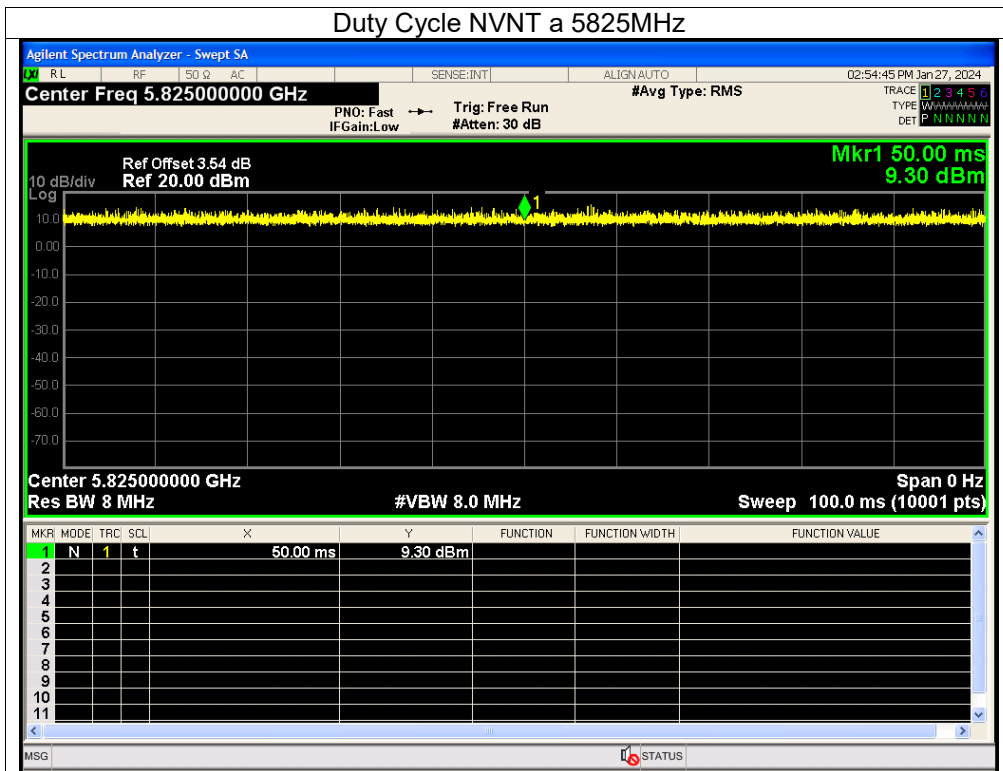


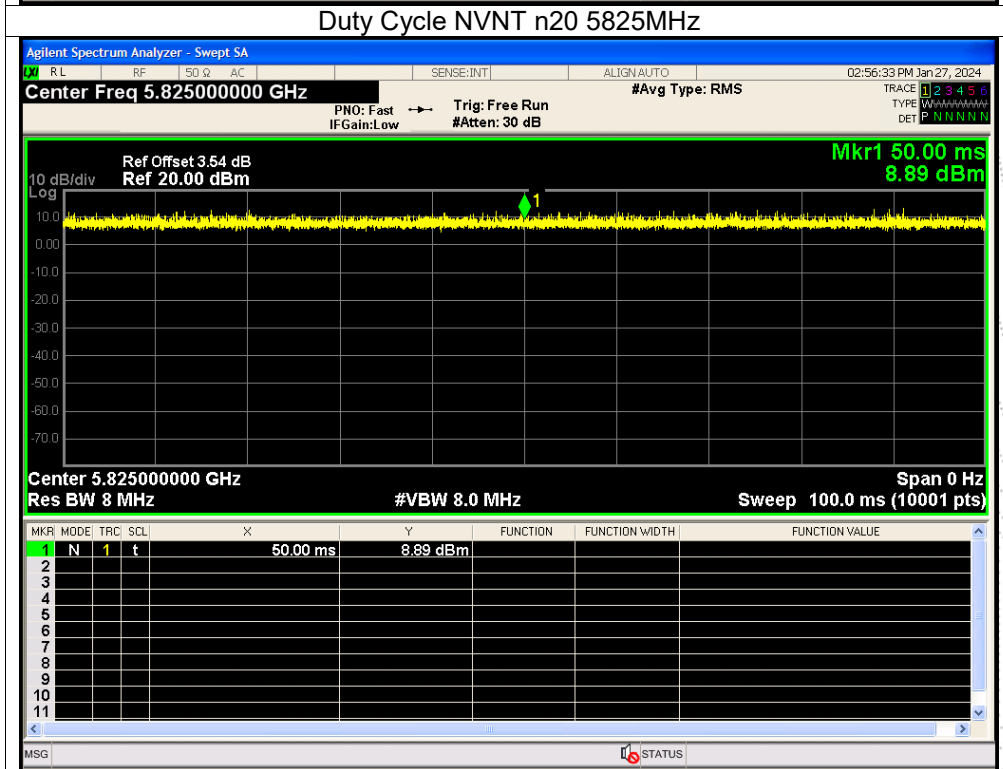
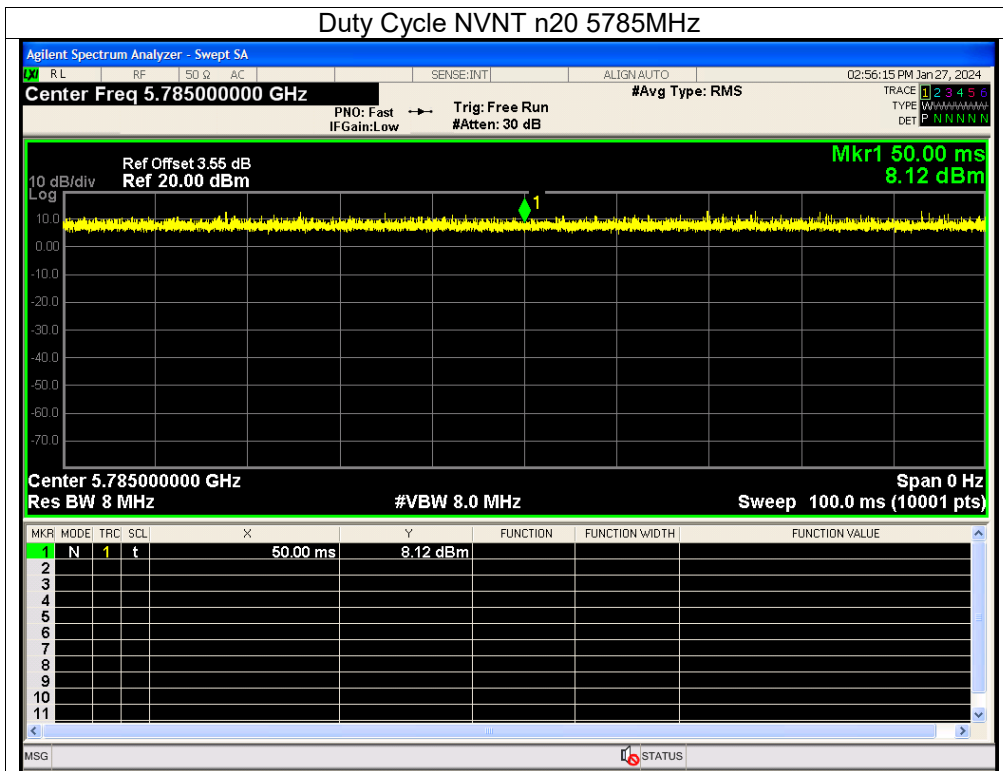
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	100	0	0
NVNT	a	5785	100	0	0
NVNT	a	5825	100	0	0
NVNT	n20	5745	100	0	0
NVNT	n20	5785	100	0	0
NVNT	n20	5825	100	0	0
NVNT	n40	5755	100	0	0
NVNT	n40	5795	100	0	0
NVNT	ac20	5745	100	0	0
NVNT	ac20	5785	100	0	0
NVNT	ac20	5825	100	0	0
NVNT	ac40	5755	100	0	0
NVNT	ac40	5795	100	0	0
NVNT	ac80	5775	100	0	0
NVNT	ax20	5745	100	0	0
NVNT	ax20	5785	100	0	0
NVNT	ax20	5825	100	0	0
NVNT	ax40	5755	100	0	0
NVNT	ax40	5795	100	0	0
NVNT	ax80	5775	100	0	0

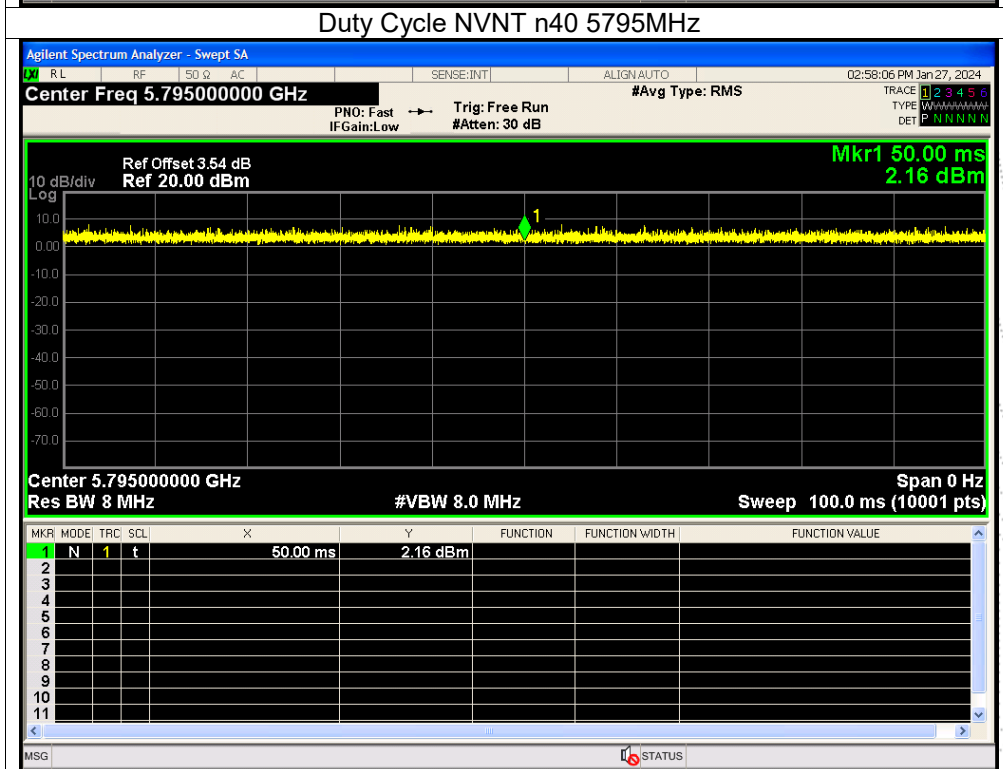
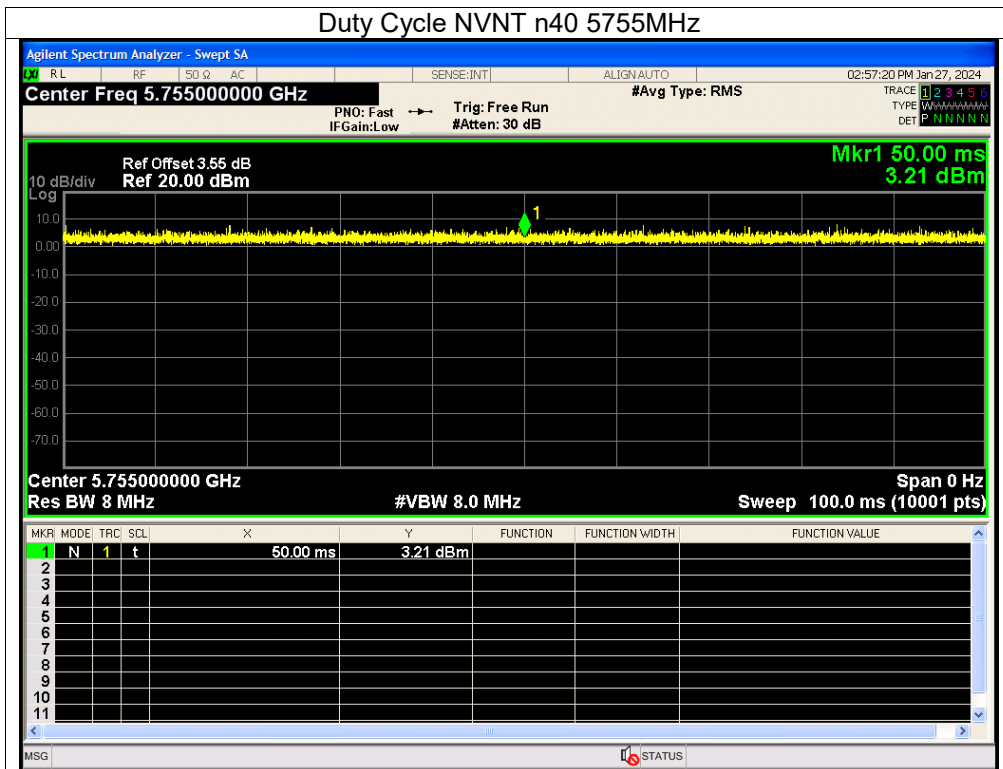


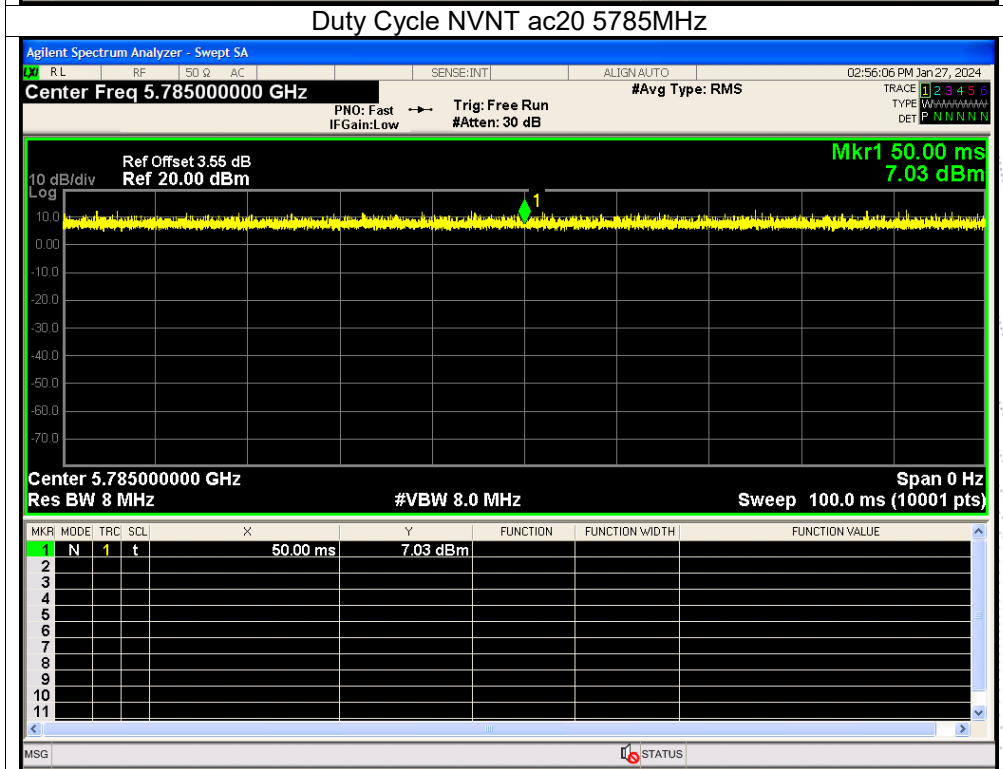
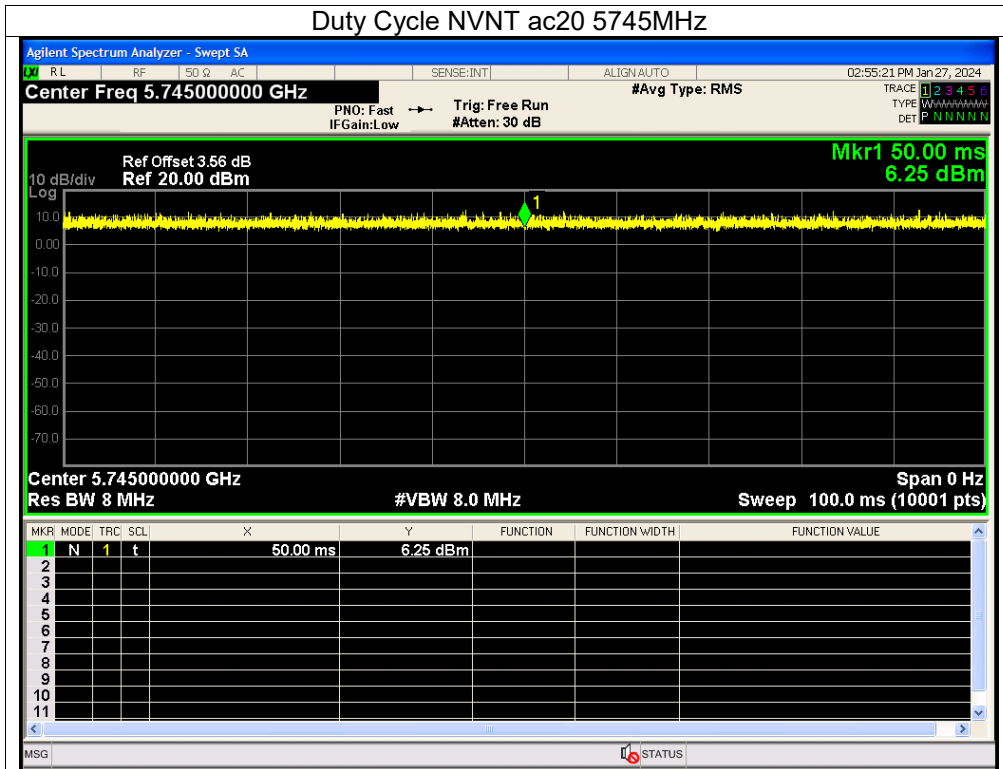
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A. Plot.

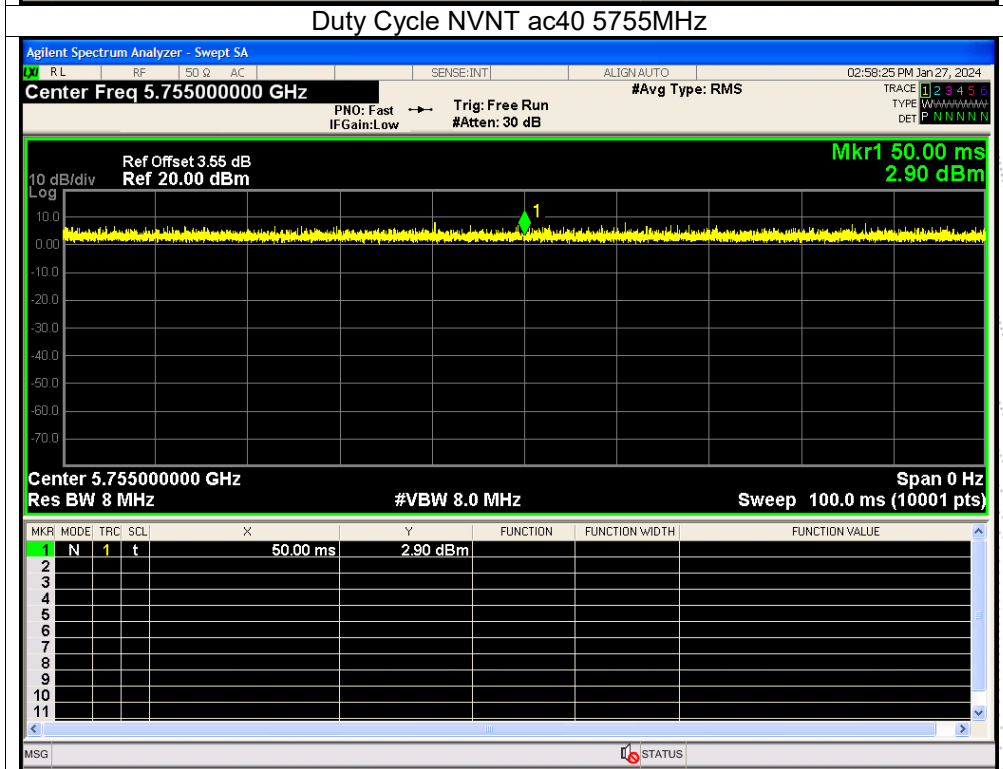
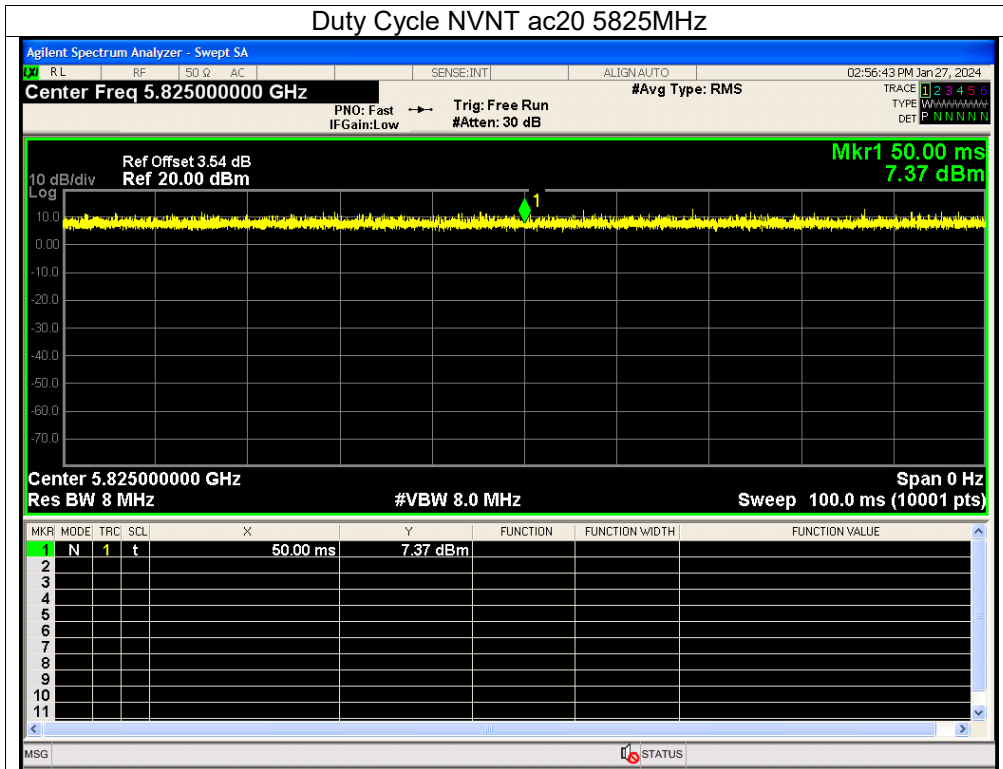


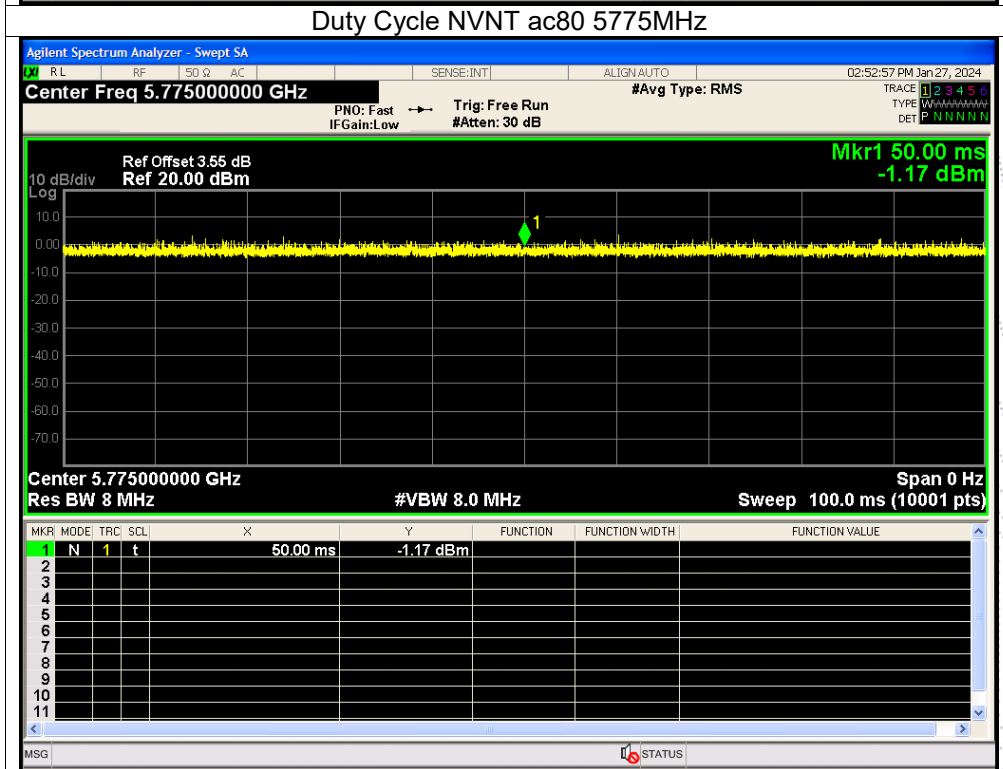
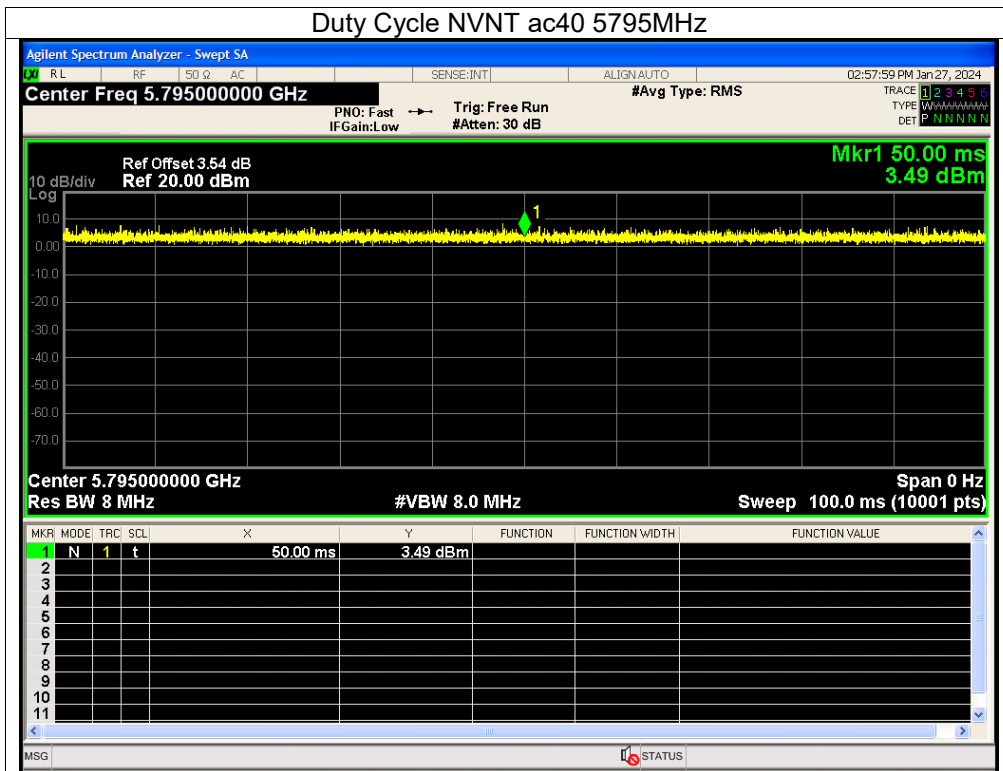


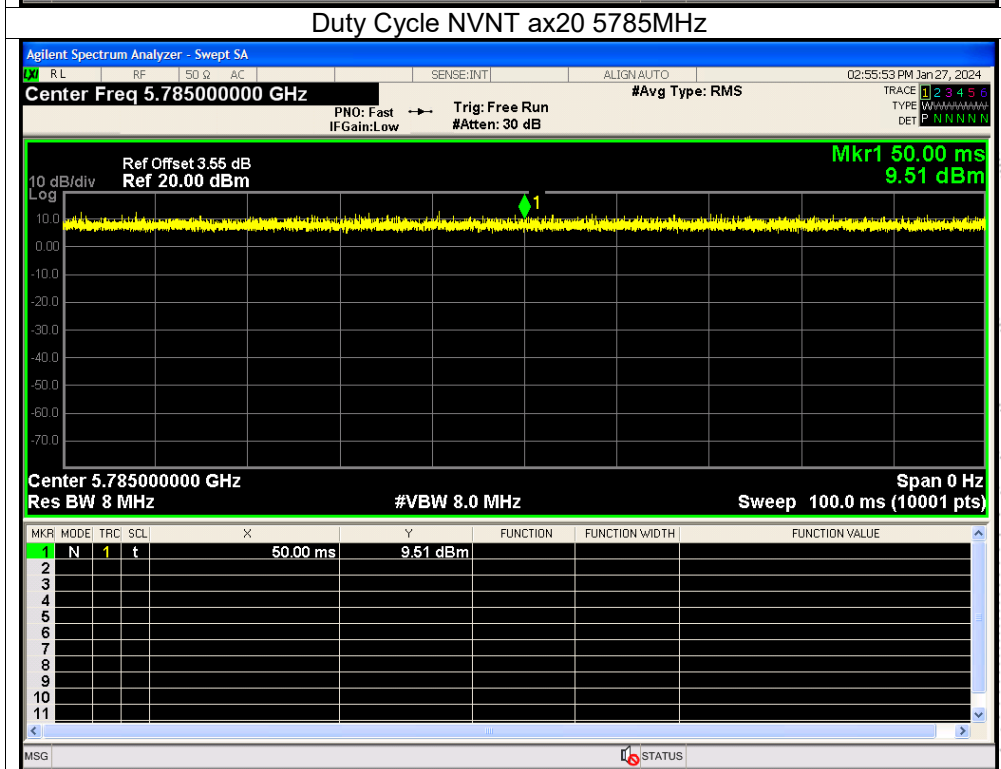
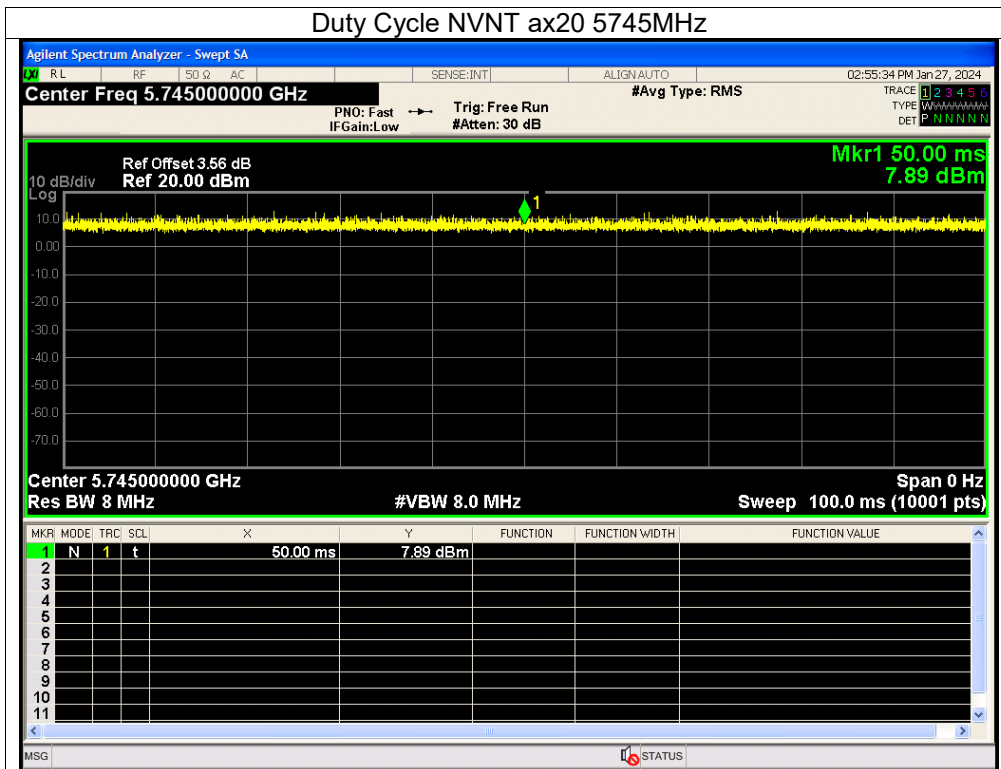


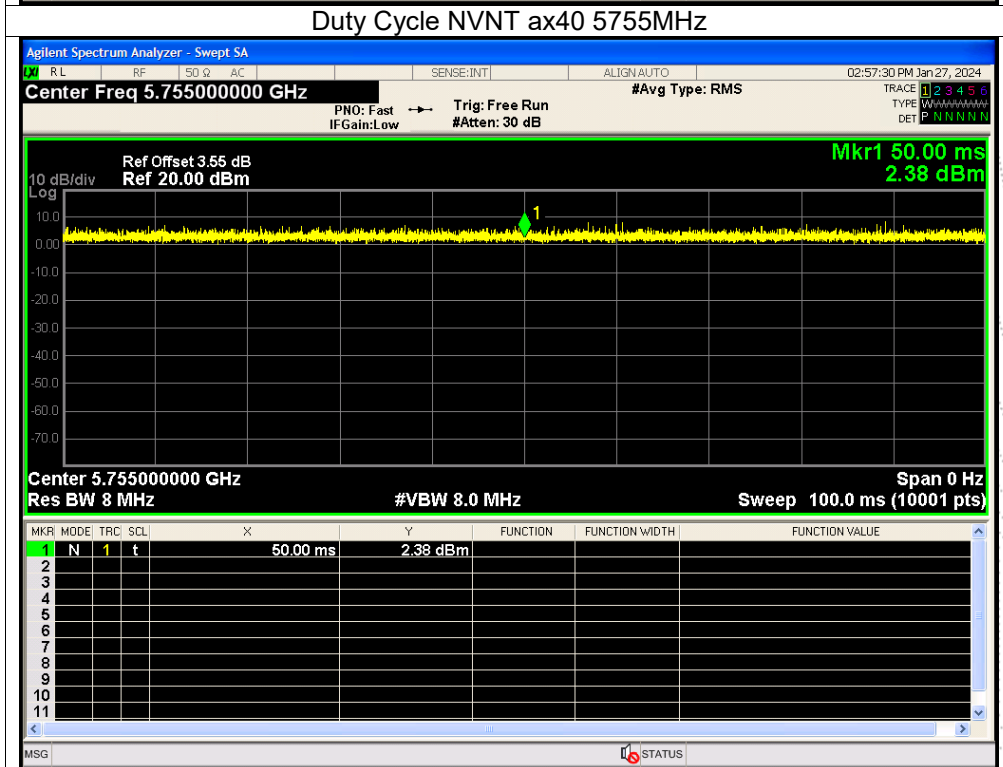
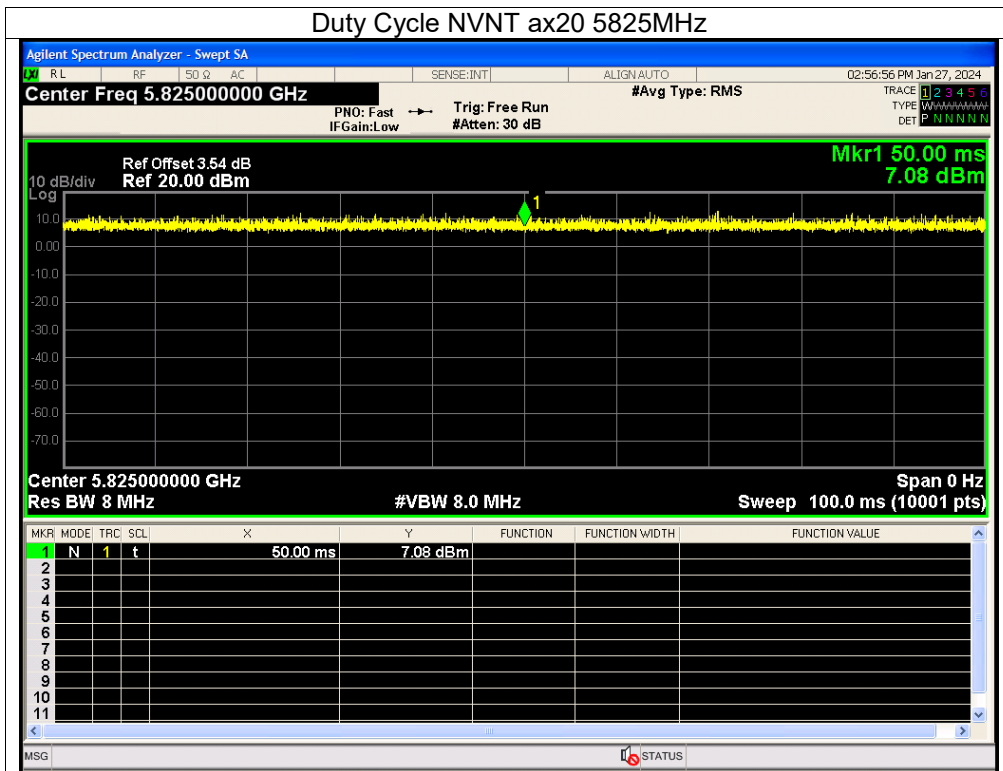


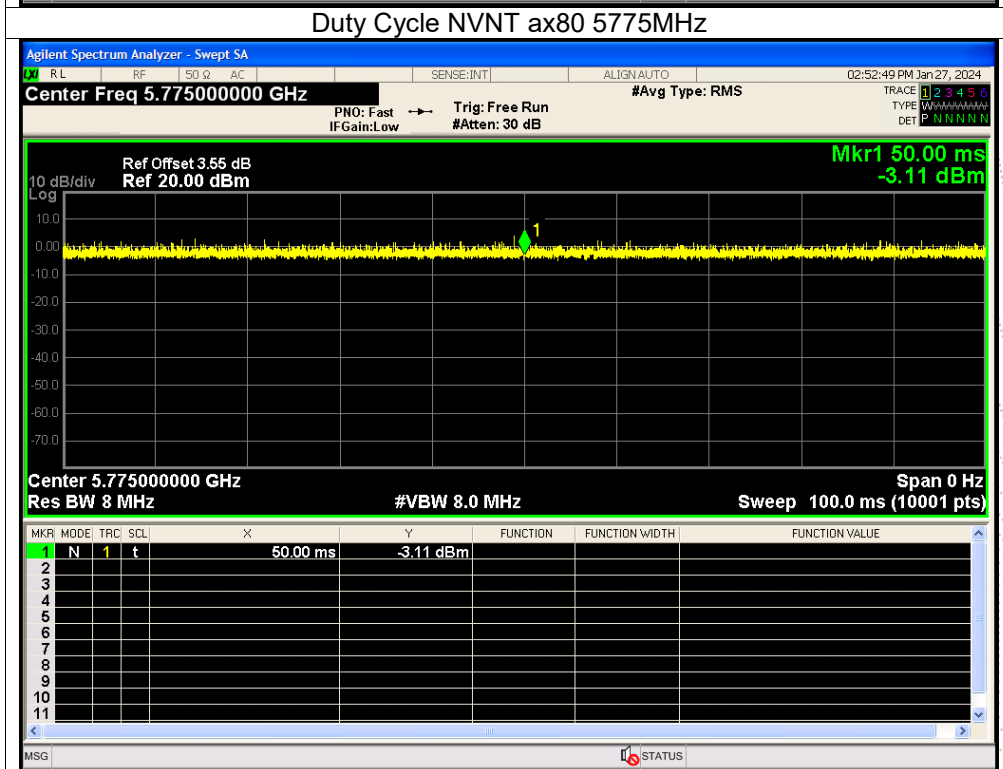
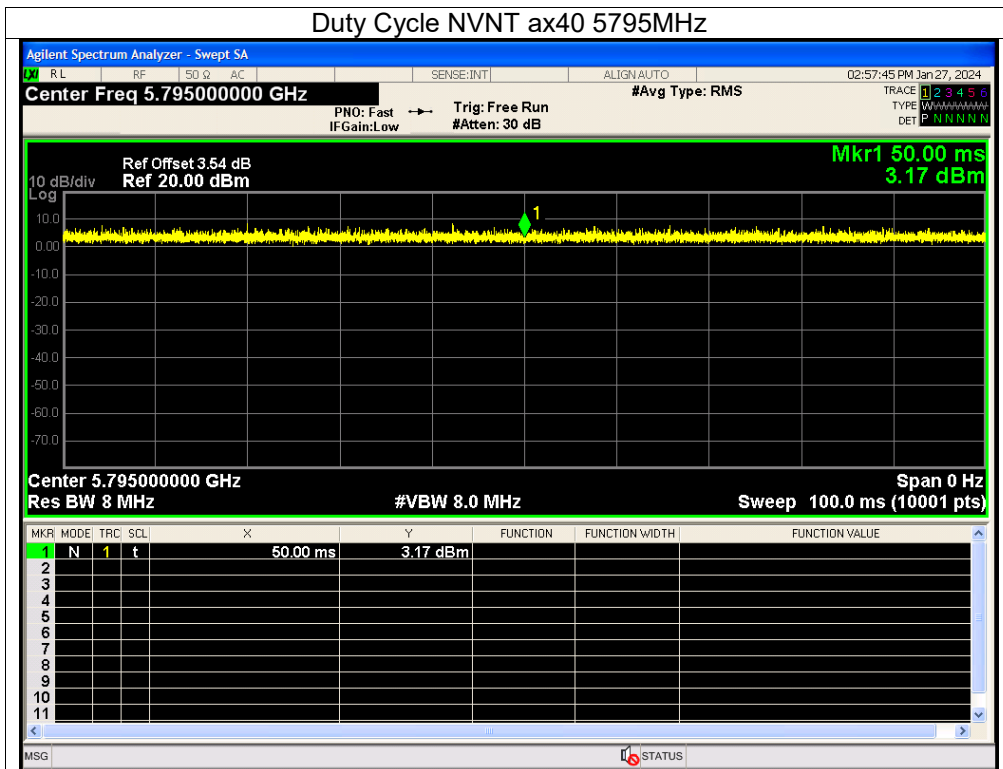












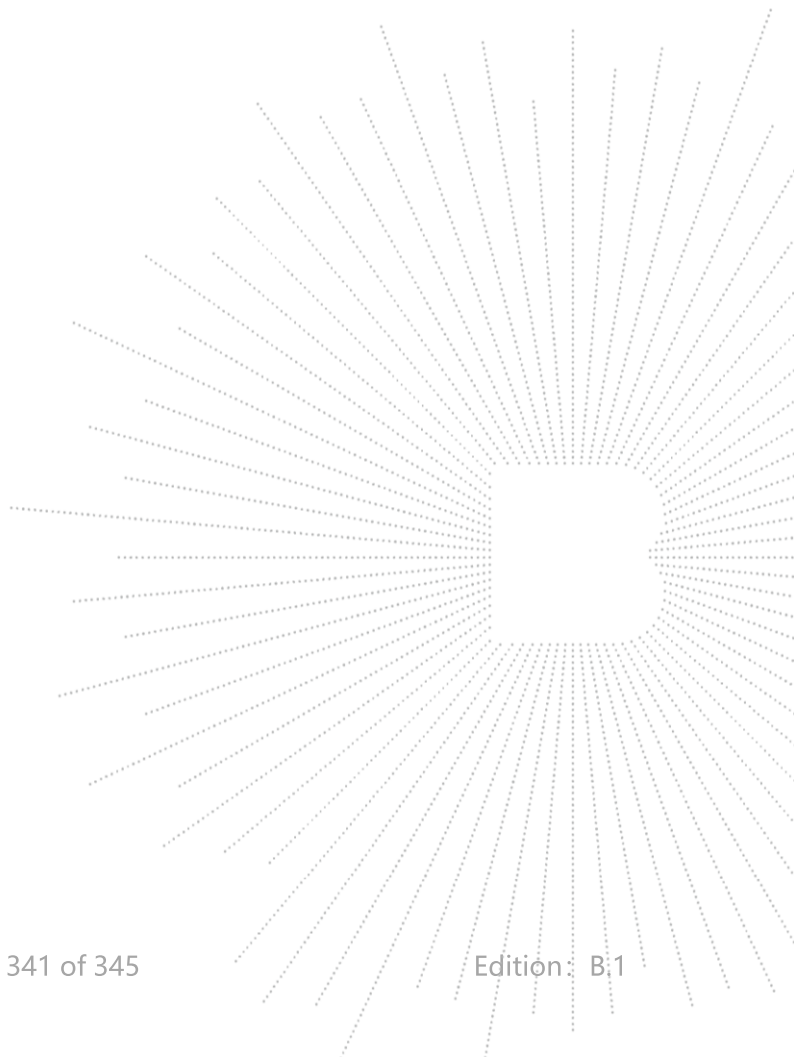
15. Antenna Requirement

15.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.2 Test Result

The EUT antenna is External antenna (antenna gain (A): 2.55 dBi; antenna gain (B) : 2.55 dBi). It comply with the standard requirement.

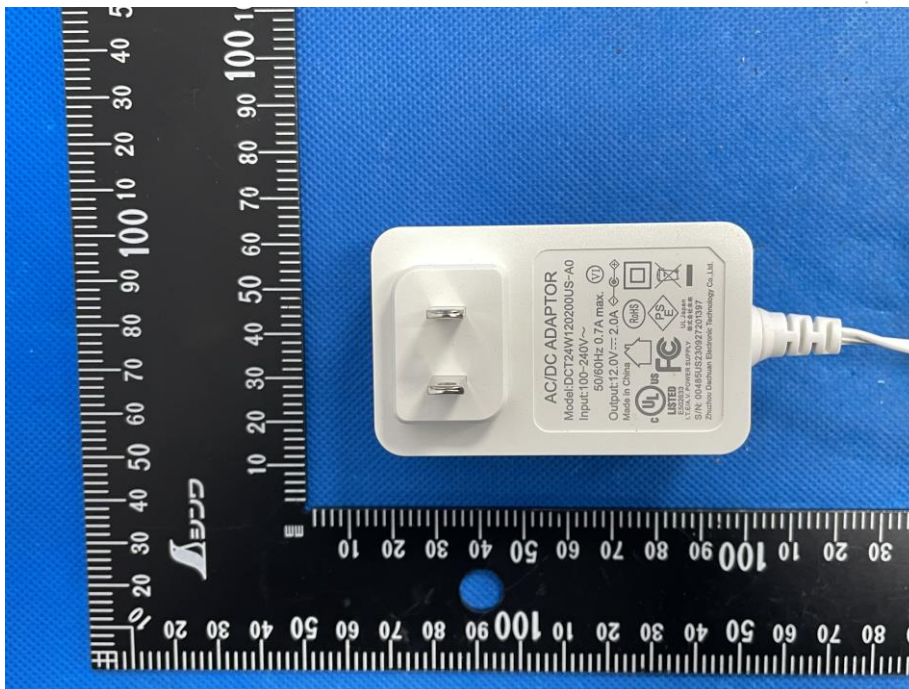


16. EUT Photographs

EUT Photo 1



EUT Photo 2



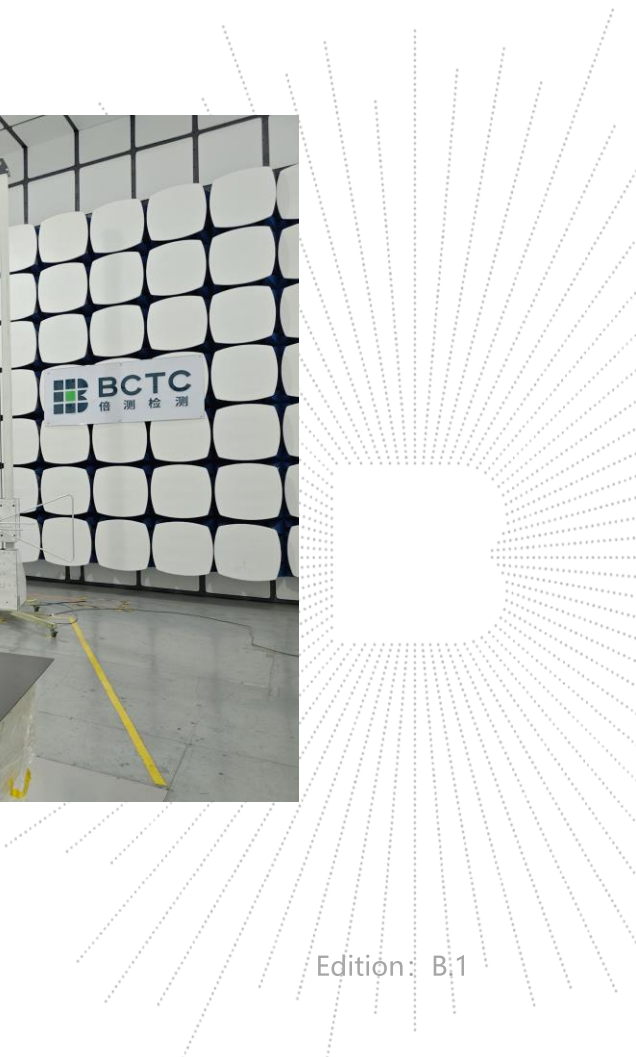
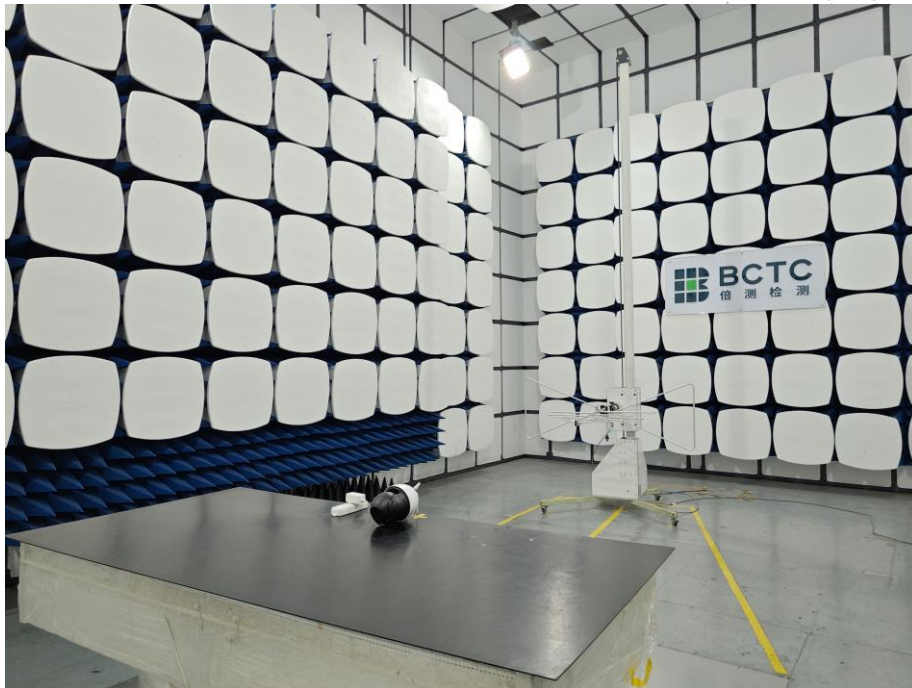
NOTE: Appendix-Photographs Of EUT Constructional Details

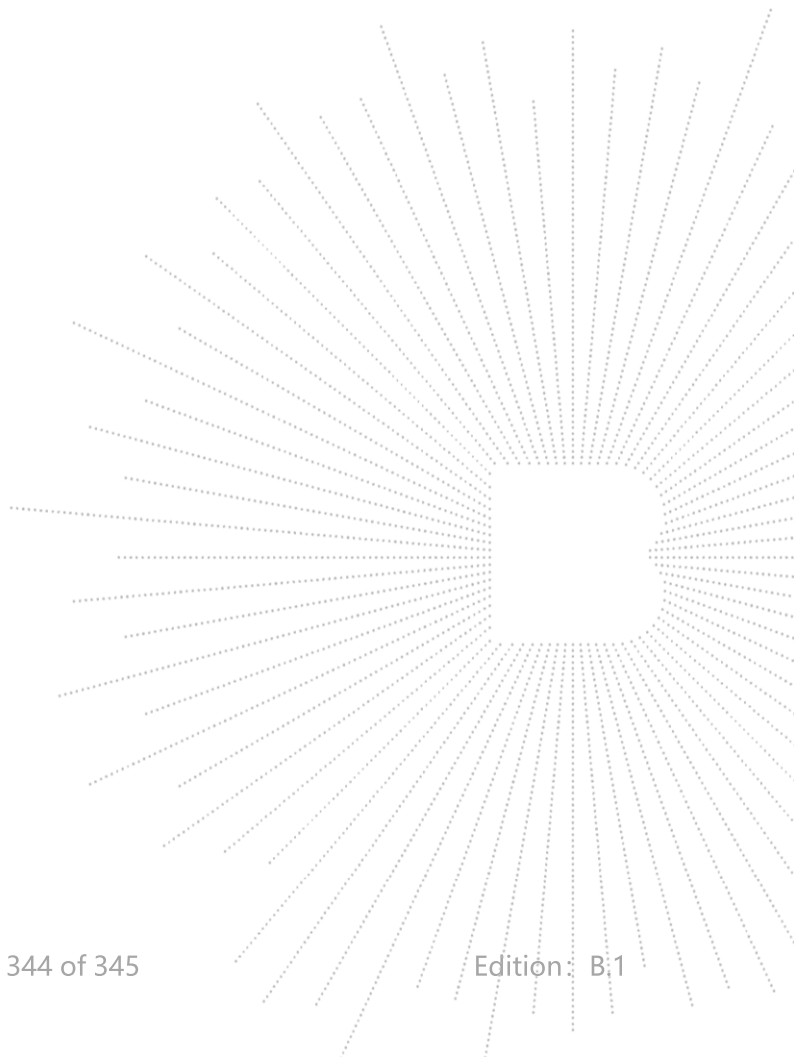
17. EUT Test Setup Photographs

Conducted Emissions Photo



Radiated Measurement Photos





STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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