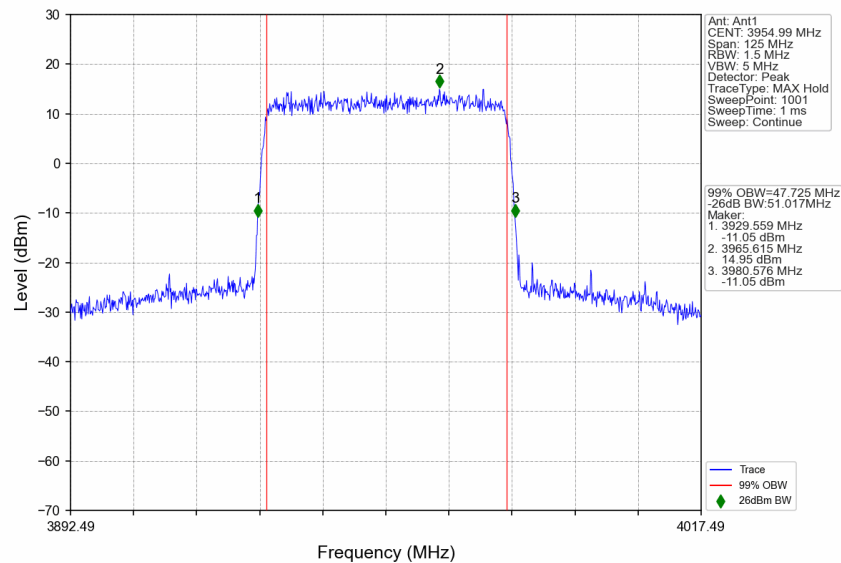


Report No.: SEWM2311000456RG02

Rev.: 01

Page: 347 of 1239

n77a_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3954.99MHz_Outer_Full



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4.15 30k_SISO_60MHz_NTNV

4.15.1 Test Result

5G NR n77a SCS=30kHz SISO 60MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3730.02	Outer Full	58.25	62.22	/	Pass
	3840	Outer Full	58.45	62.24	/	Pass
	3949.98	Outer Full	58.30	62.30	/	Pass
DFT-s-OFDM QPSK	3730.02	Outer Full	58.24	62.23	/	Pass
	3840	Outer Full	58.41	62.23	/	Pass
	3949.98	Outer Full	58.26	62.30	/	Pass
DFT-s-OFDM 16 QAM	3730.02	Outer Full	58.20	61.99	/	Pass
	3840	Outer Full	58.29	62.29	/	Pass
	3949.98	Outer Full	58.25	62.29	/	Pass
DFT-s-OFDM 64 QAM	3730.02	Outer Full	58.04	62.25	/	Pass
	3840	Outer Full	58.10	62.35	/	Pass
	3949.98	Outer Full	58.18	62.33	/	Pass
DFT-s-OFDM 256 QAM	3730.02	Outer Full	58.29	62.18	/	Pass
	3840	Outer Full	58.13	62.15	/	Pass
	3949.98	Outer Full	58.31	62.10	/	Pass
CP-OFDM QPSK	3730.02	Outer Full	58.14	62.03	/	Pass
	3840	Outer Full	58.16	62.03	/	Pass
	3949.98	Outer Full	58.13	62.23	/	Pass
CP-OFDM 16 QAM	3730.02	Outer Full	58.28	62.17	/	Pass
	3840	Outer Full	58.26	62.19	/	Pass
	3949.98	Outer Full	58.09	62.15	/	Pass
CP-OFDM 64 QAM	3730.02	Outer Full	58.36	62.22	/	Pass
	3840	Outer Full	58.23	62.26	/	Pass
	3949.98	Outer Full	58.25	62.12	/	Pass
CP-OFDM 256 QAM	3730.02	Outer Full	58.08	62.08	/	Pass
	3840	Outer Full	58.14	62.05	/	Pass
	3949.98	Outer Full	58.30	62.12	/	Pass



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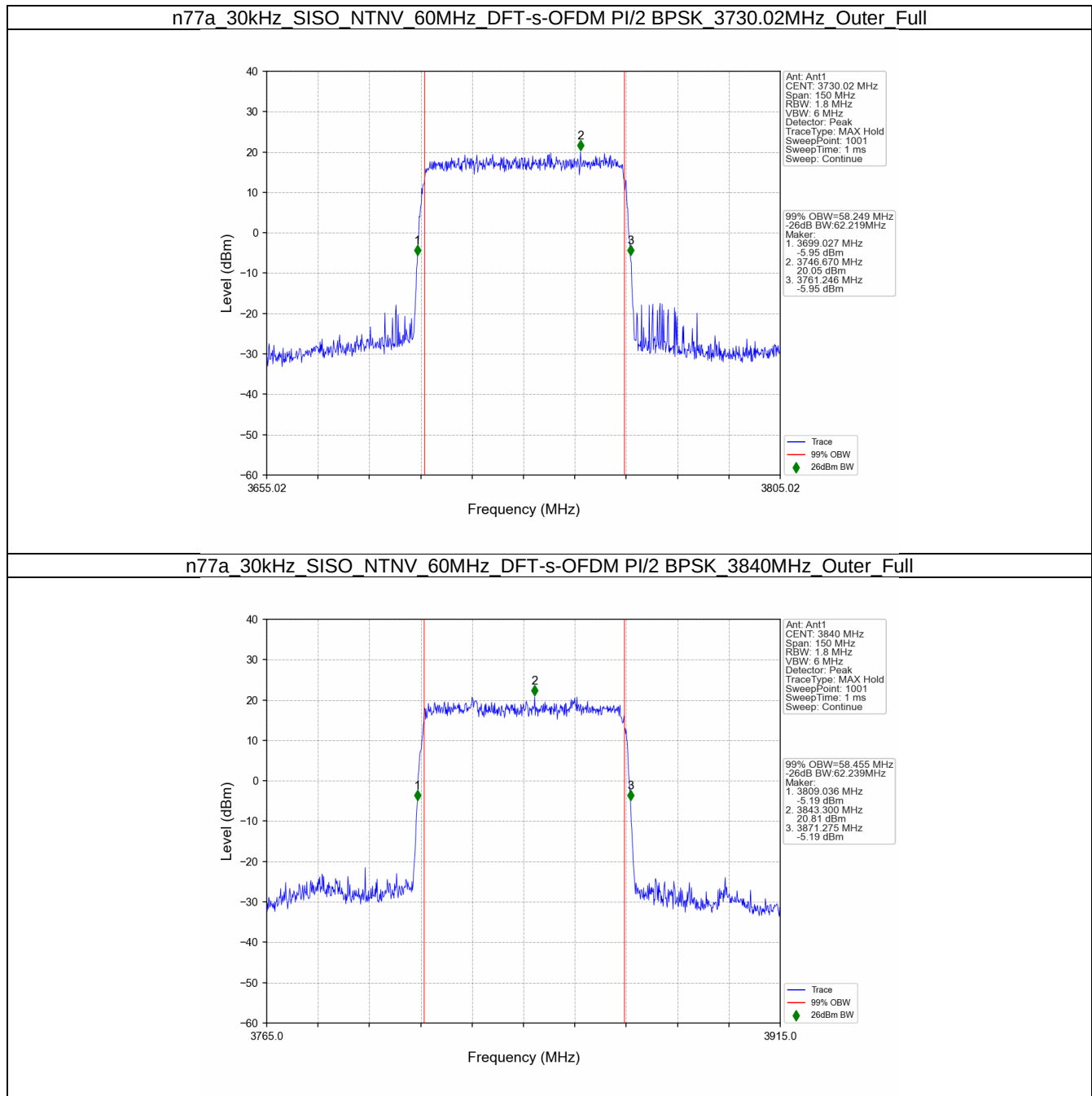
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Report No.: SEWM2311000456RG02

Rev.: 01

Page: 349 of 1239

4.15.2 Test Graph



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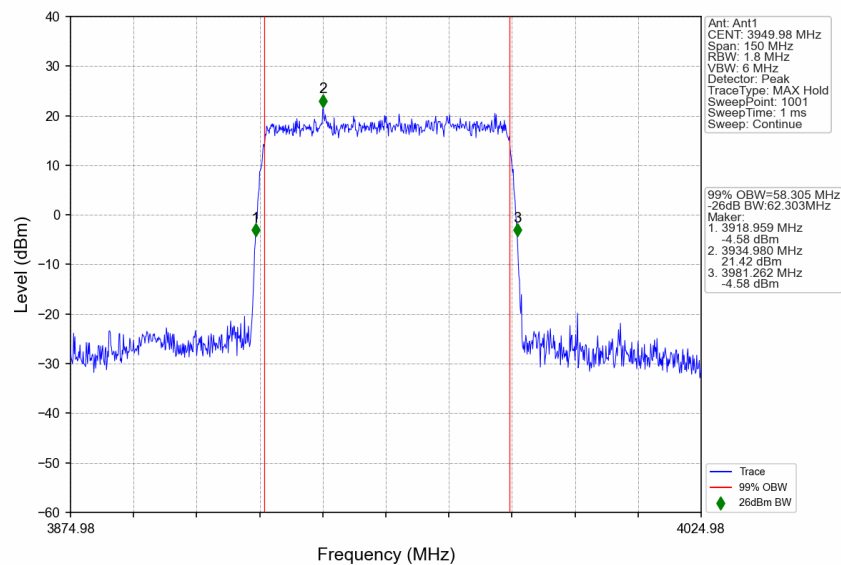
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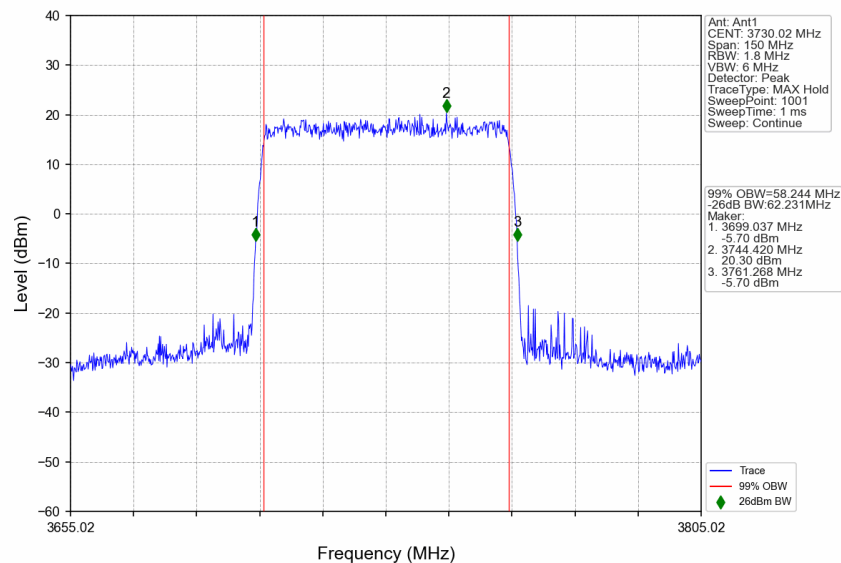
Rev.: 01

Page: 350 of 1239

n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_3949.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3730.02MHz_Outer_Full



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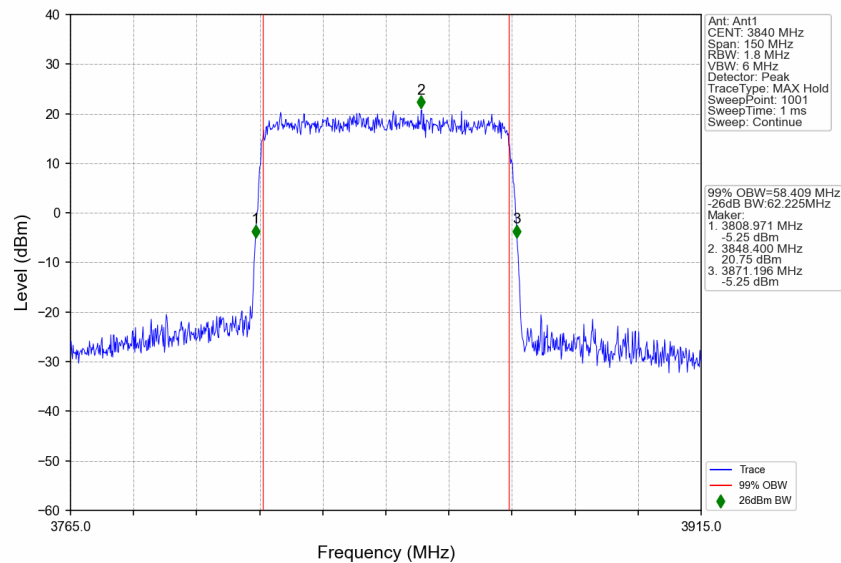
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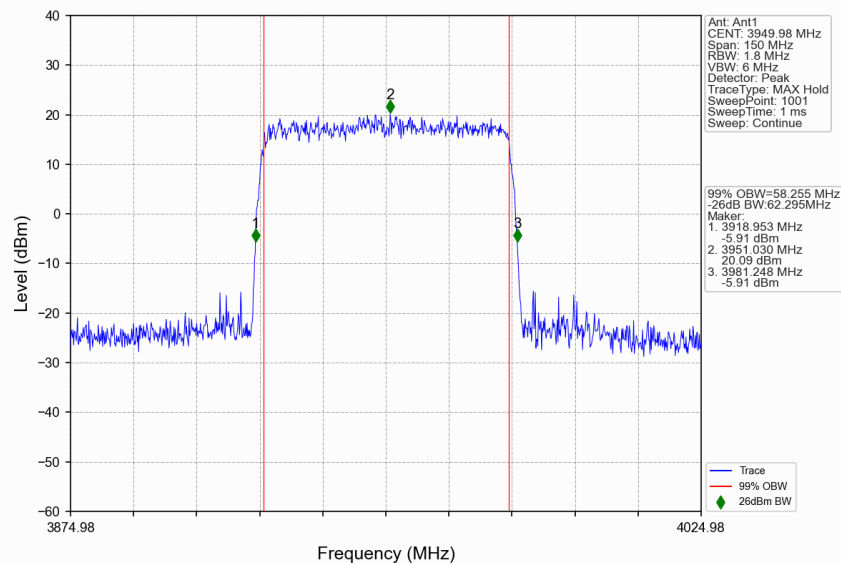
Rev.: 01

Page: 351 of 1239

n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3949.98MHz_Outer_Full



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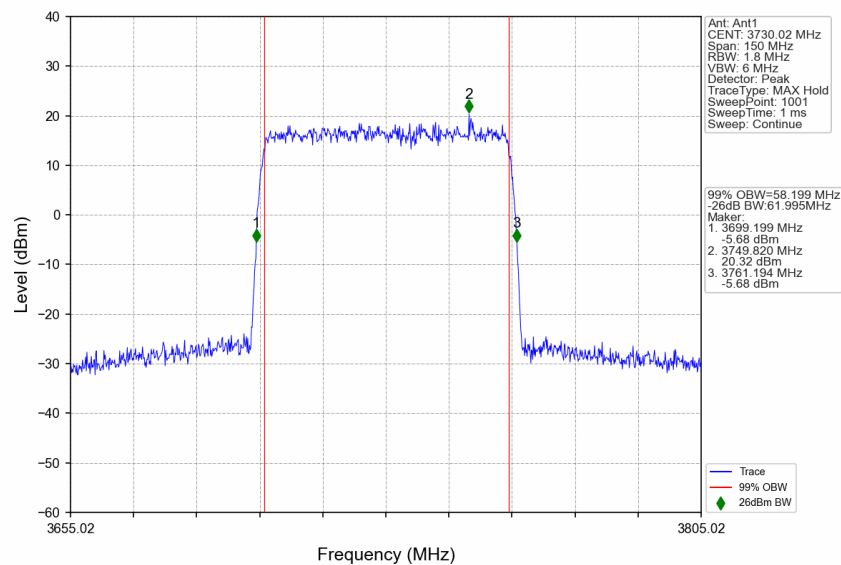
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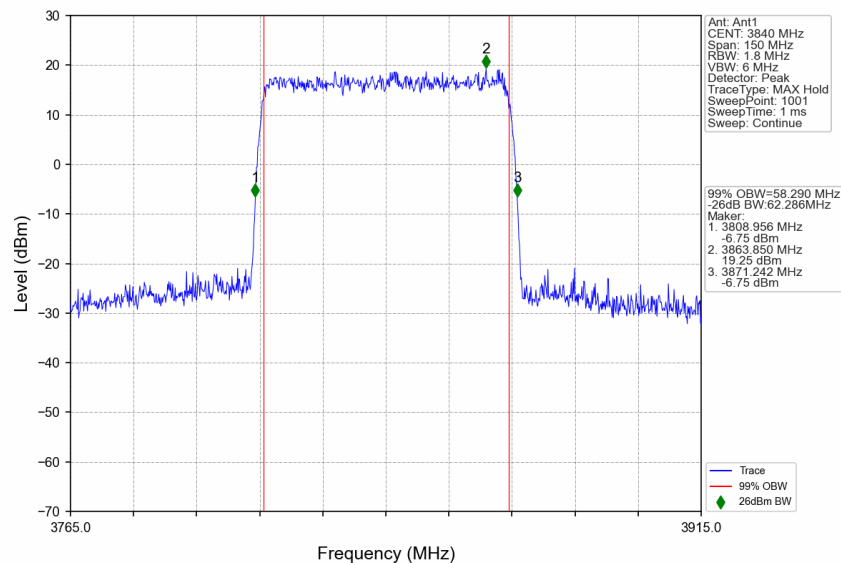
Rev.: 01

Page: 352 of 1239

n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_16_QAM_3730.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_16_QAM_3840MHz_Outer_Full



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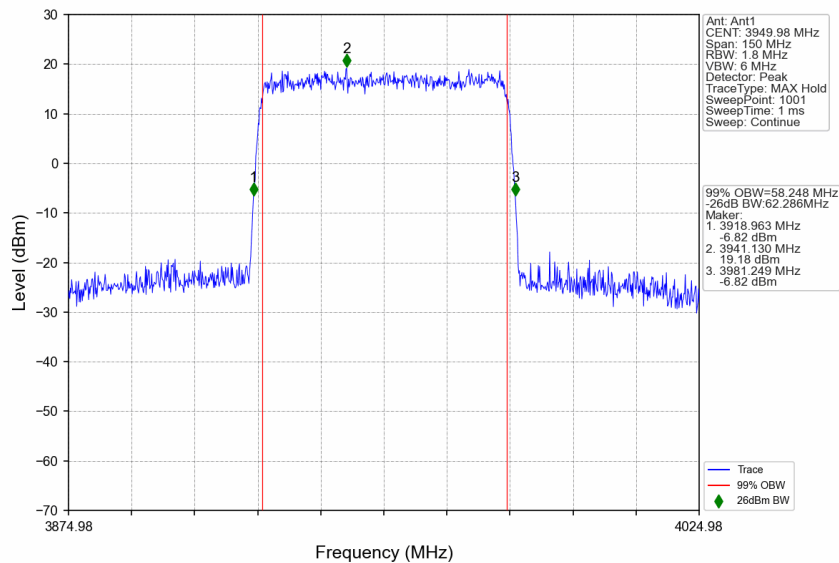
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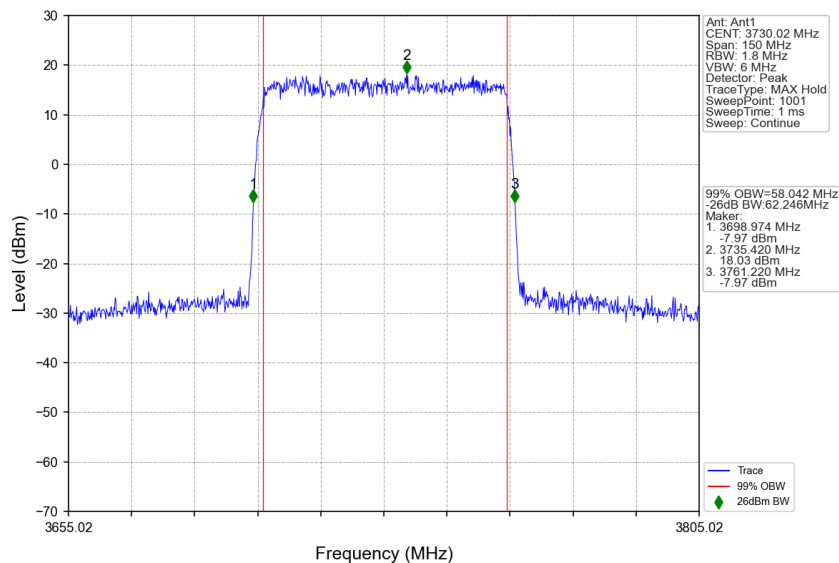
Rev.: 01

Page: 353 of 1239

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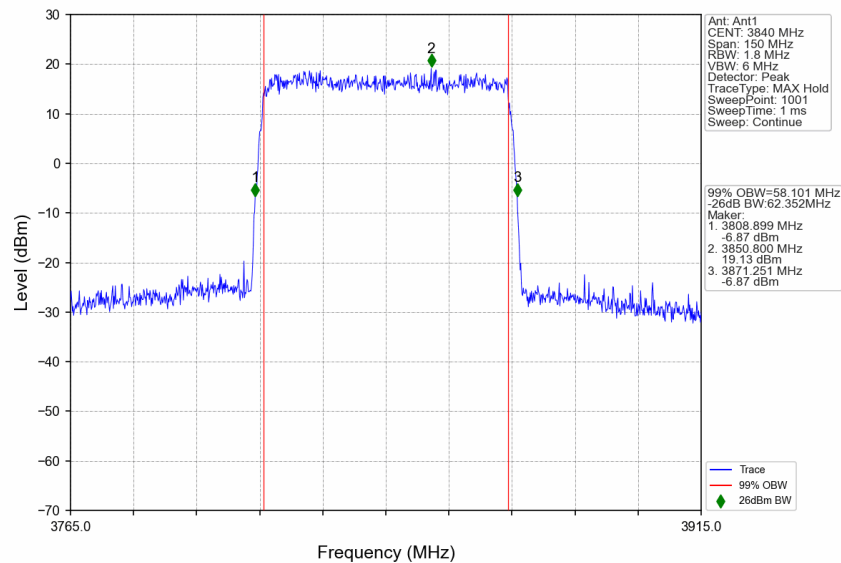
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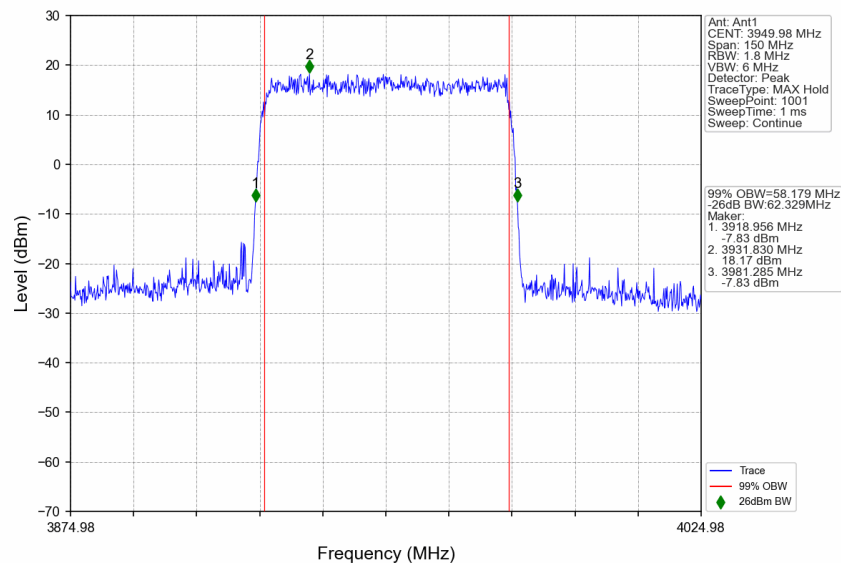
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Page: 354 of 1239

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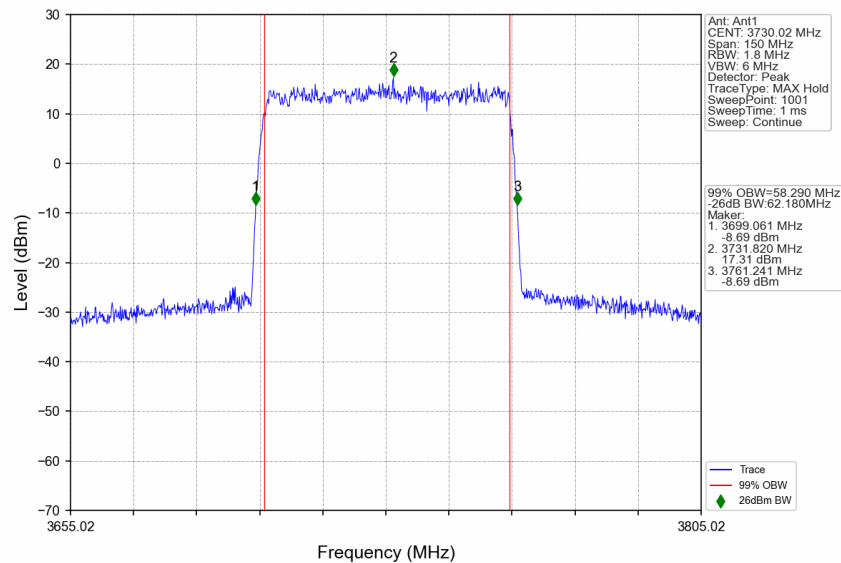
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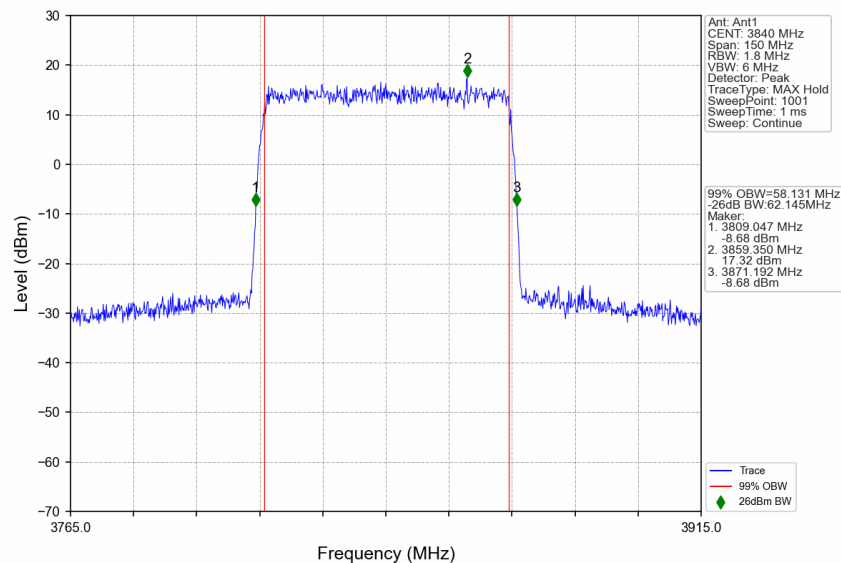
Rev.: 01

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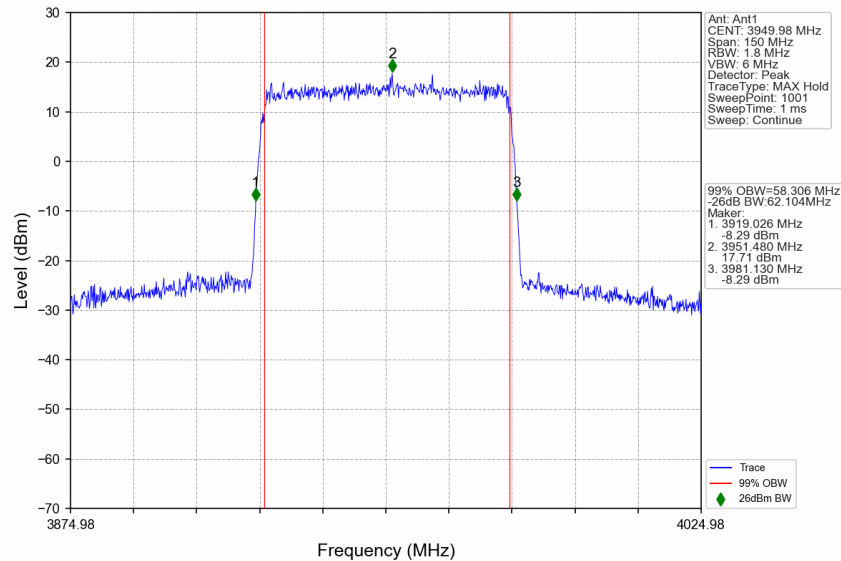
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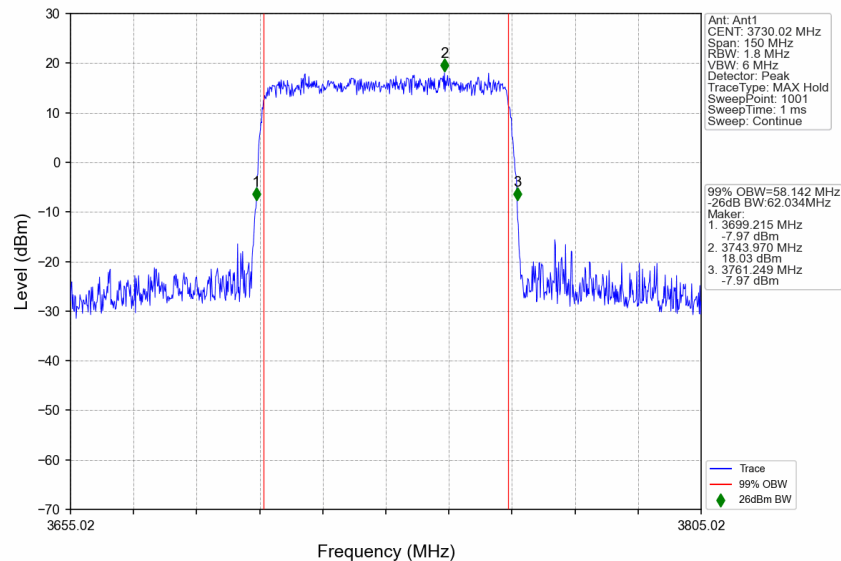
Rev.: 01

Page: 356 of 1239

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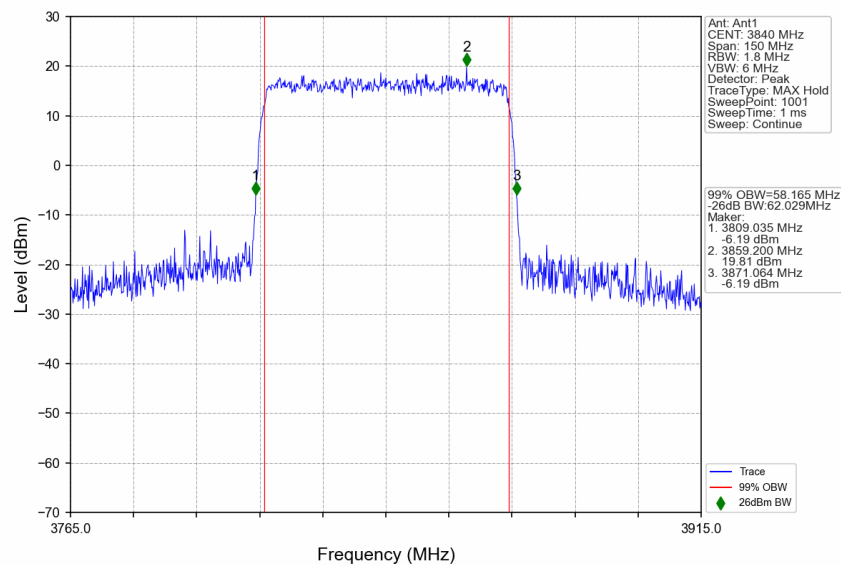
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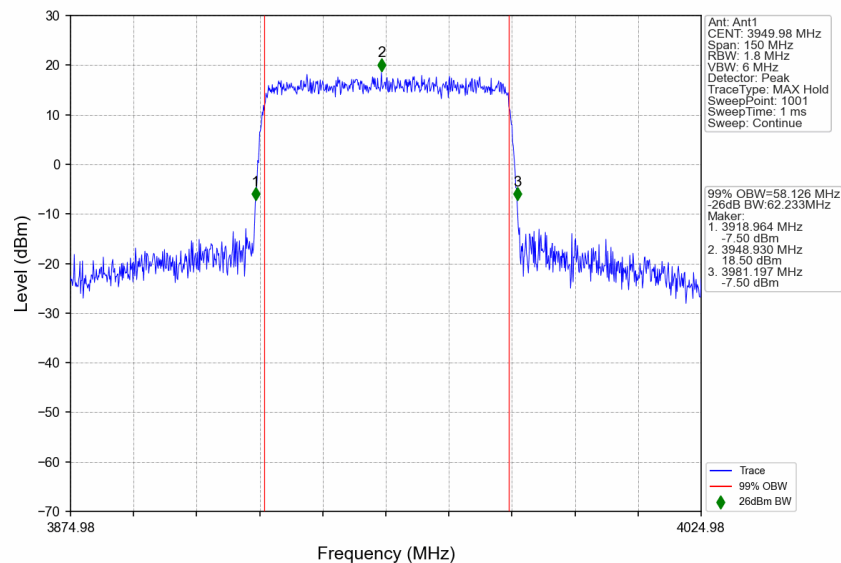
Rev.: 01

Page: 357 of 1239

n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_3949.98MHz_Outer_Full



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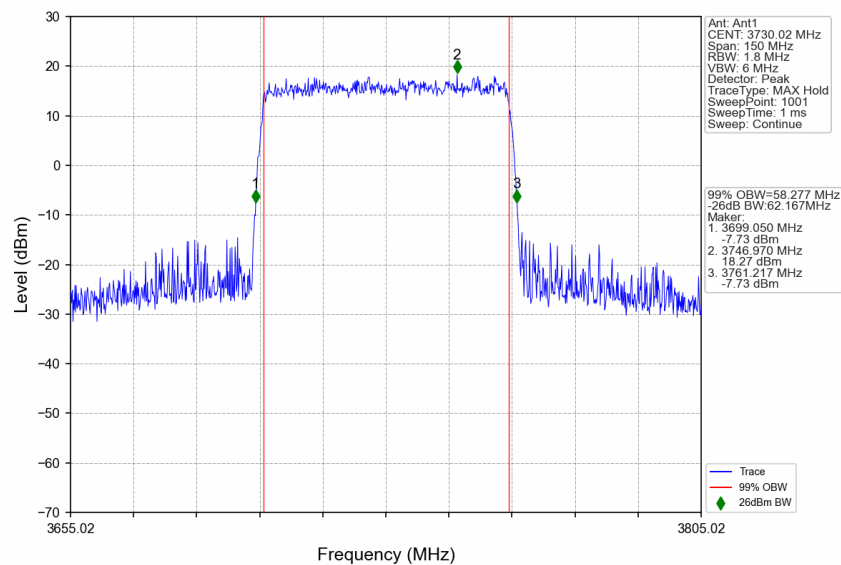
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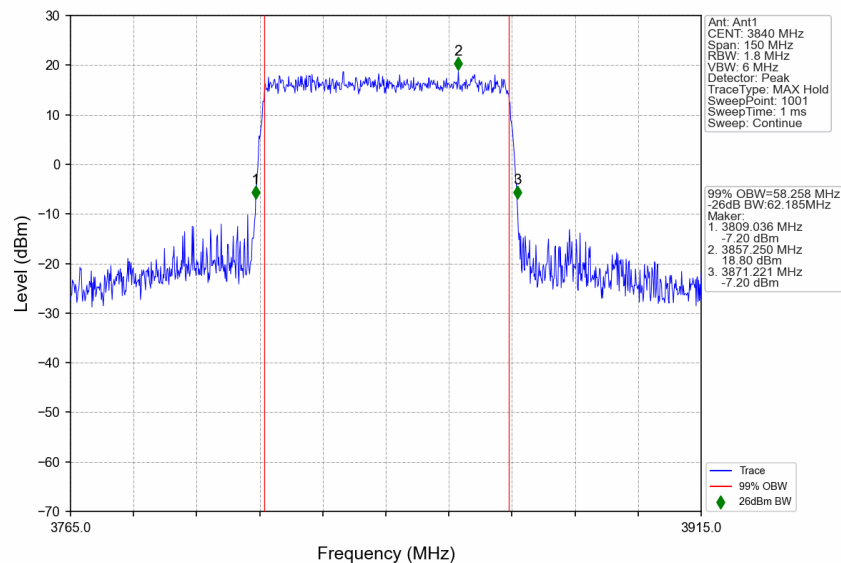
Rev.: 01

Page: 358 of 1239

n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM_16_QAM_3730.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM_16_QAM_3840MHz_Outer_Full



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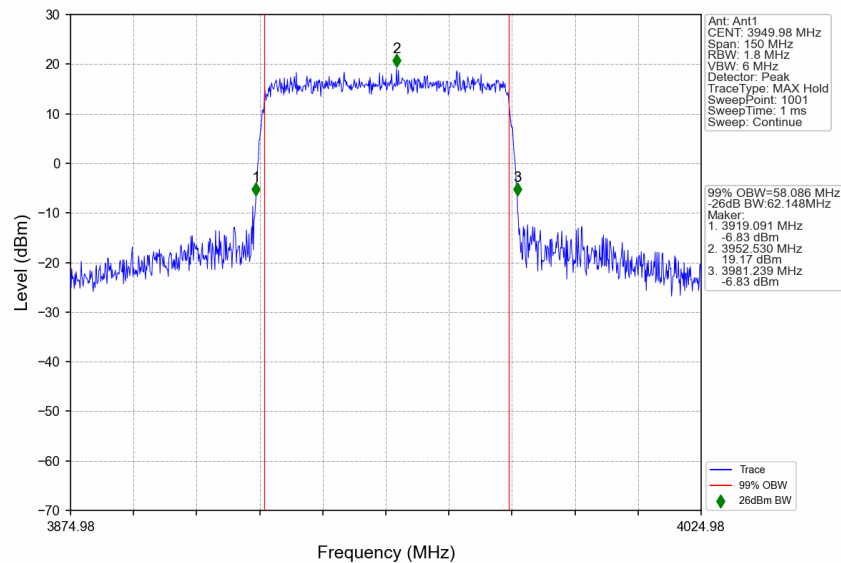
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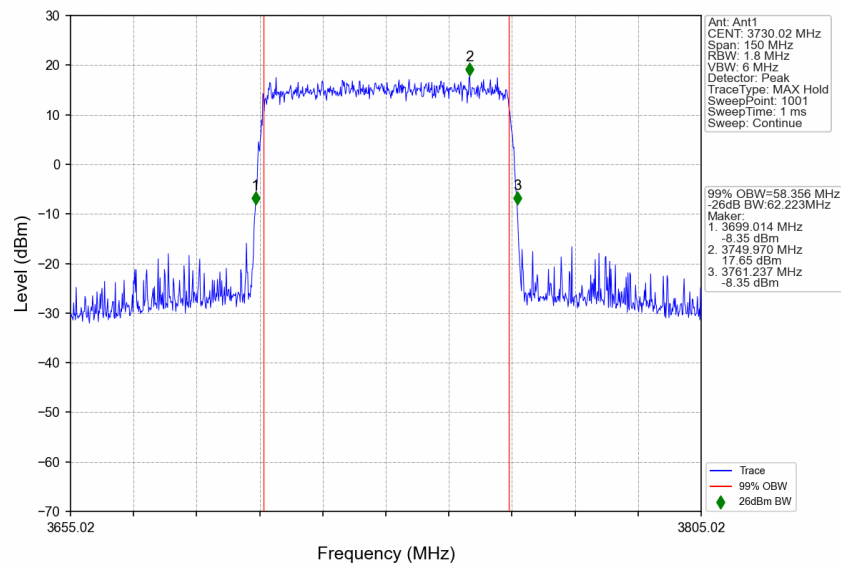
Rev.: 01

Page: 359 of 1239

n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM 16 QAM_3949.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3730.02MHz_Outer_Full



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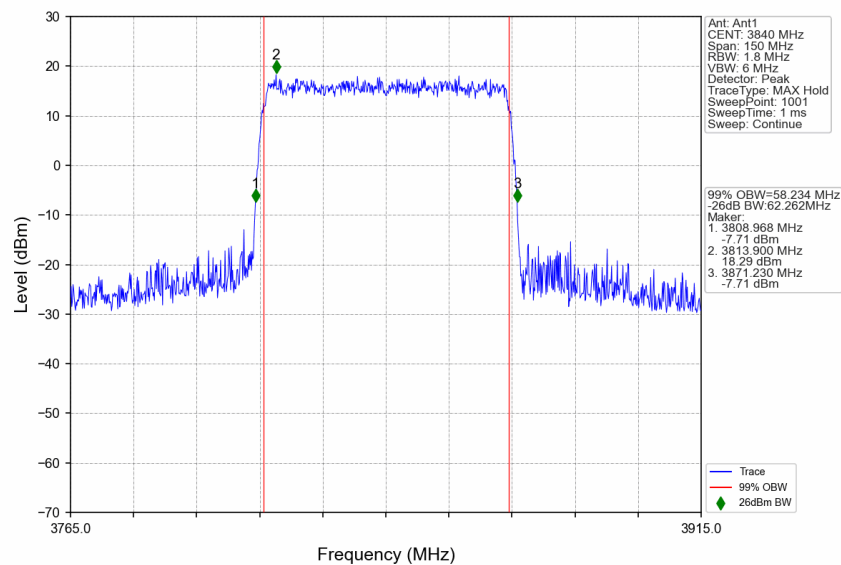
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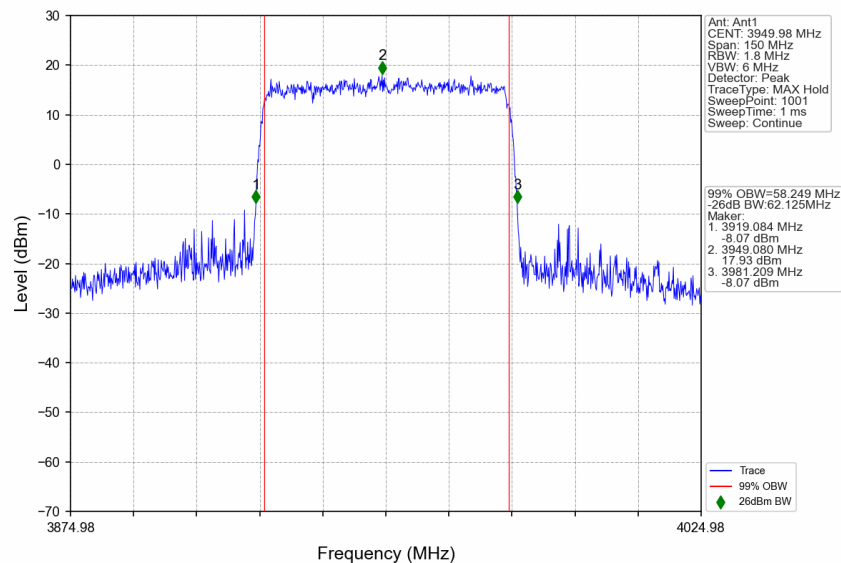
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Page: 360 of 1239

n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM_64_QAM_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM_64_QAM_3949.98MHz_Outer_Full



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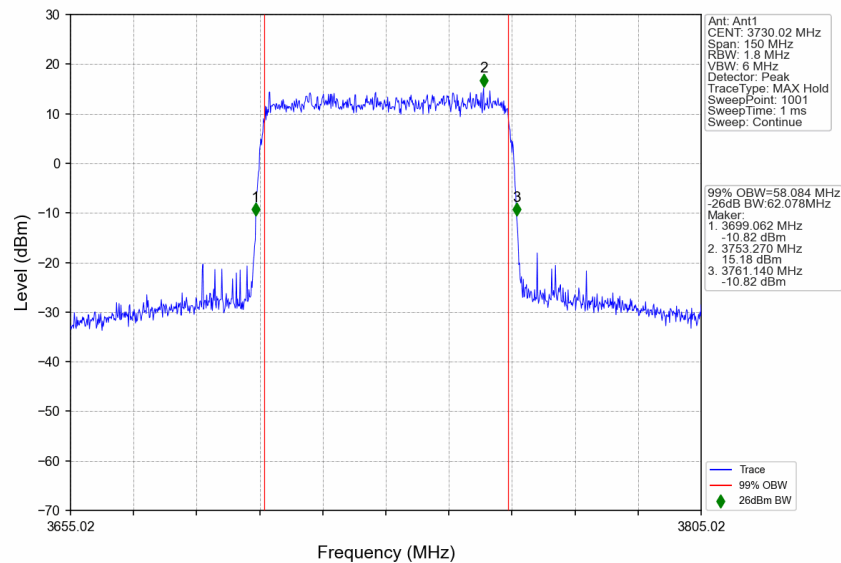
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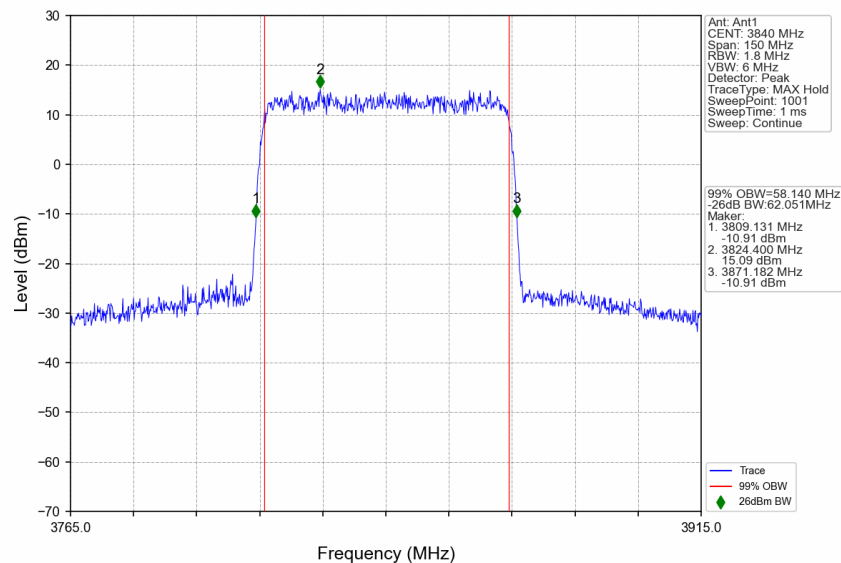
Rev.: 01

Page: 361 of 1239

n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3730.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3840MHz_Outer_Full



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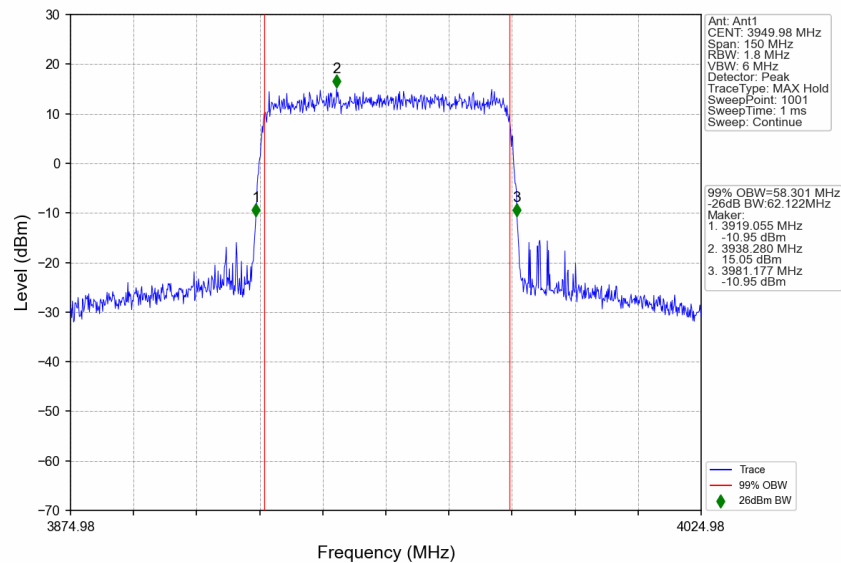
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Report No.: SEWM2311000456RG02

Rev.: 01

Page: 362 of 1239

n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3949.98MHz_Outer_Full



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4.16 30k_SISO_70MHz_NTNV

4.16.1 Test Result

5G NR n77a SCS=30kHz SISO 70MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3735	Outer Full	64.89	69.45	/	Pass
	3840	Outer Full	65.06	69.31	/	Pass
	3945	Outer Full	65.10	69.45	/	Pass
DFT-s-OFDM QPSK	3735	Outer Full	64.92	69.58	/	Pass
	3840	Outer Full	64.74	69.42	/	Pass
	3945	Outer Full	64.99	69.45	/	Pass
DFT-s-OFDM 16 QAM	3735	Outer Full	64.98	69.35	/	Pass
	3840	Outer Full	64.89	69.42	/	Pass
	3945	Outer Full	64.71	69.53	/	Pass
DFT-s-OFDM 64 QAM	3735	Outer Full	65.15	69.49	/	Pass
	3840	Outer Full	65.14	69.62	/	Pass
	3945	Outer Full	64.70	69.49	/	Pass
DFT-s-OFDM 256 QAM	3735	Outer Full	64.84	69.35	/	Pass
	3840	Outer Full	64.83	69.51	/	Pass
	3945	Outer Full	64.64	69.42	/	Pass
CP-OFDM QPSK	3735	Outer Full	68.12	72.61	/	Pass
	3840	Outer Full	68.00	72.48	/	Pass
	3945	Outer Full	68.27	72.83	/	Pass
CP-OFDM 16 QAM	3735	Outer Full	68.06	72.59	/	Pass
	3840	Outer Full	68.12	72.73	/	Pass
	3945	Outer Full	68.19	72.76	/	Pass
CP-OFDM 64 QAM	3735	Outer Full	68.13	72.53	/	Pass
	3840	Outer Full	68.14	72.53	/	Pass
	3945	Outer Full	67.91	72.75	/	Pass
CP-OFDM 256 QAM	3735	Outer Full	68.01	72.49	/	Pass
	3840	Outer Full	68.14	72.70	/	Pass
	3945	Outer Full	67.89	72.87	/	Pass



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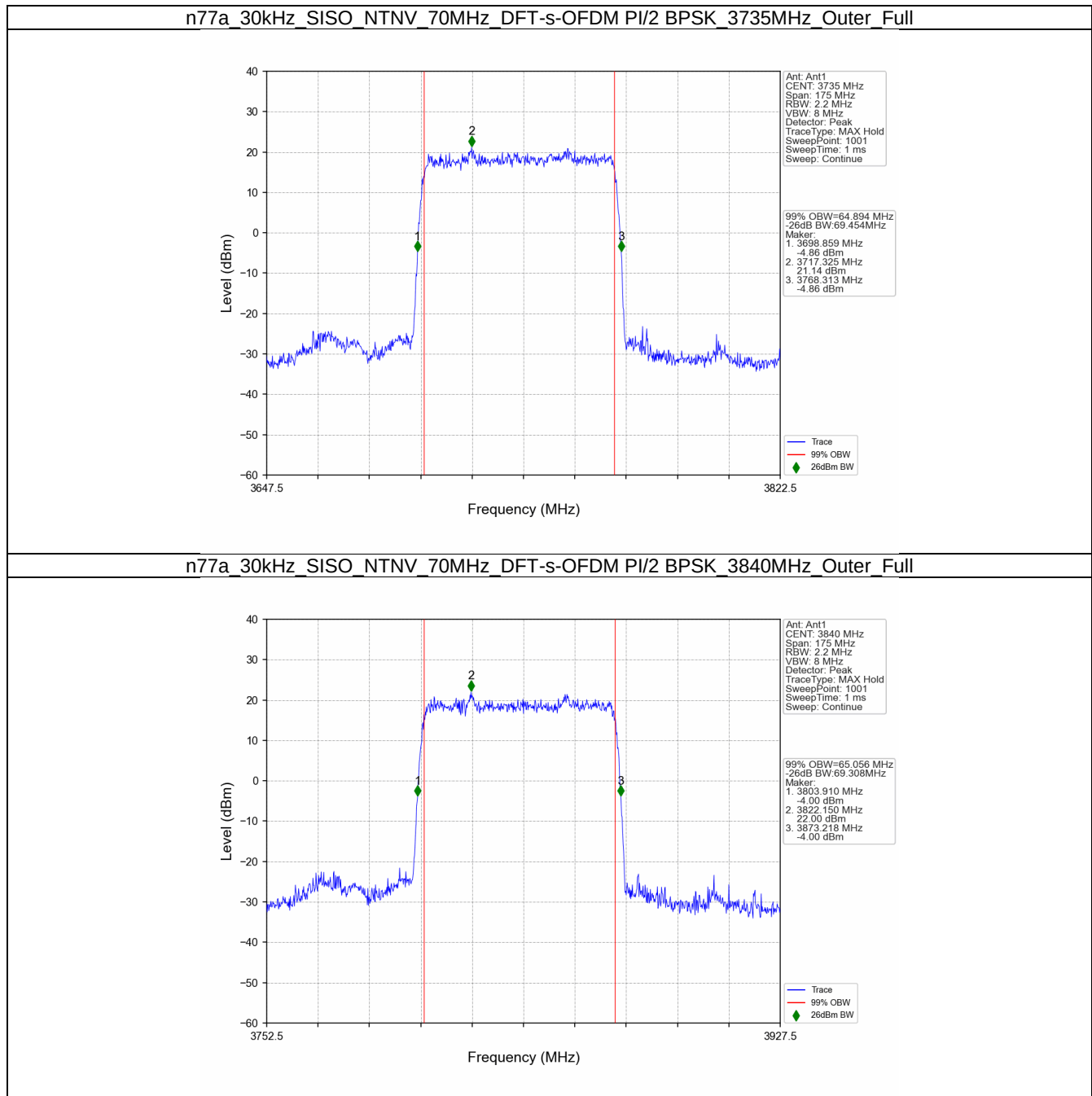
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4.16.2 Test Graph



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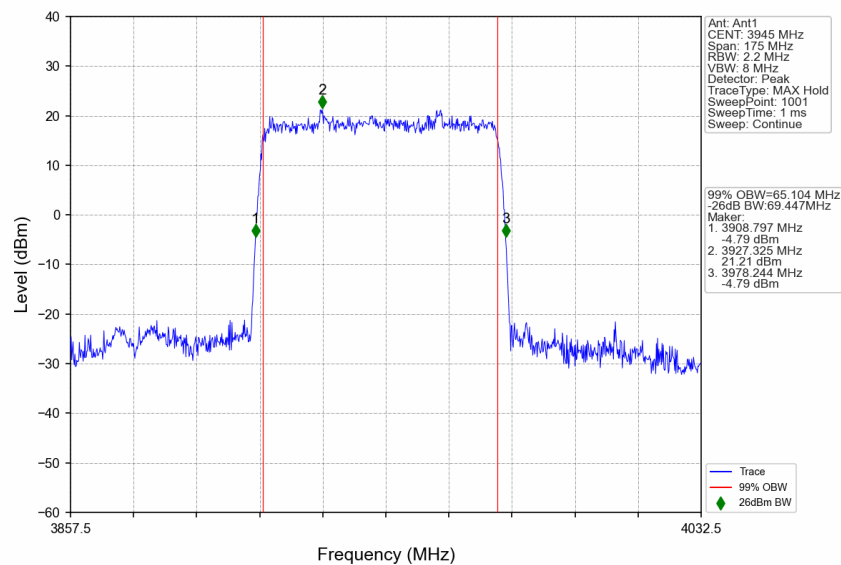
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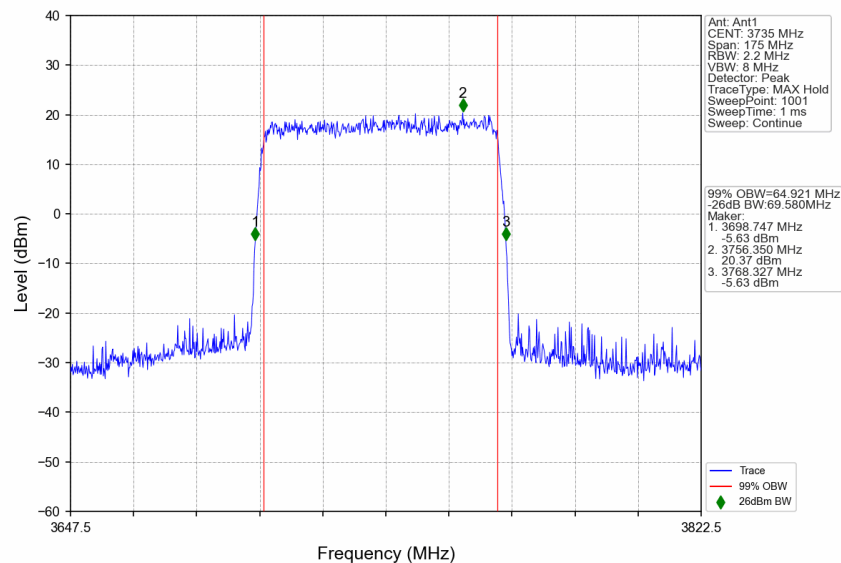
Rev.: 01

Page: 365 of 1239

n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM PI/2 BPSK_3945MHz_Outer_Full



n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM QPSK_3735MHz_Outer_Full



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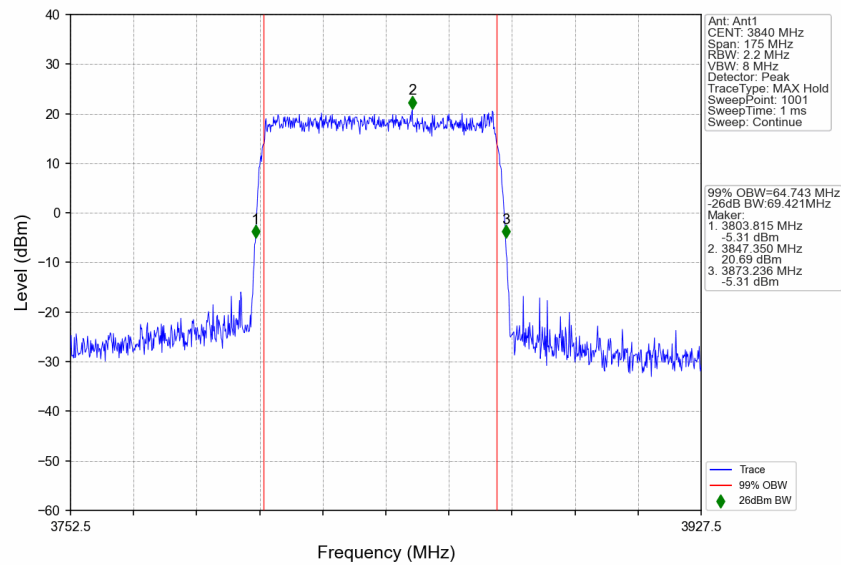
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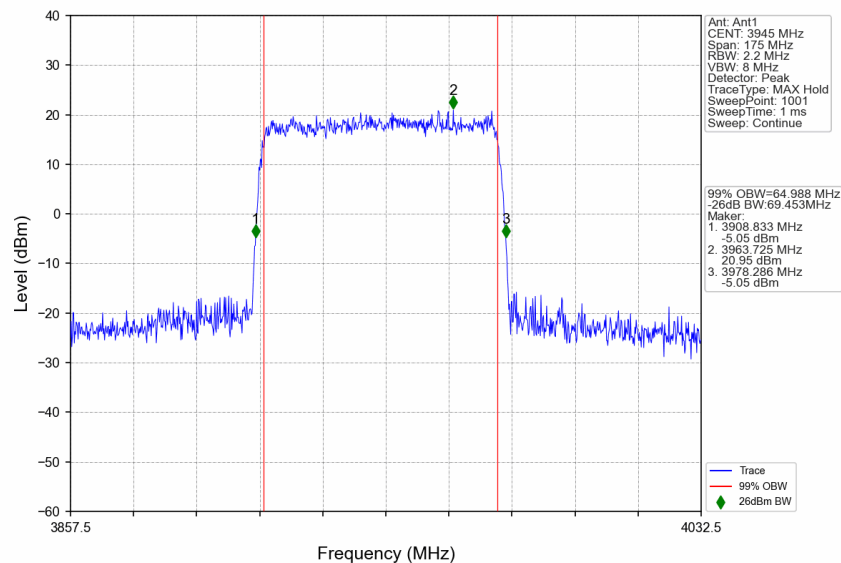
Rev.: 01

Page: 366 of 1239

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n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_QPSK_3945MHz_Outer_Full



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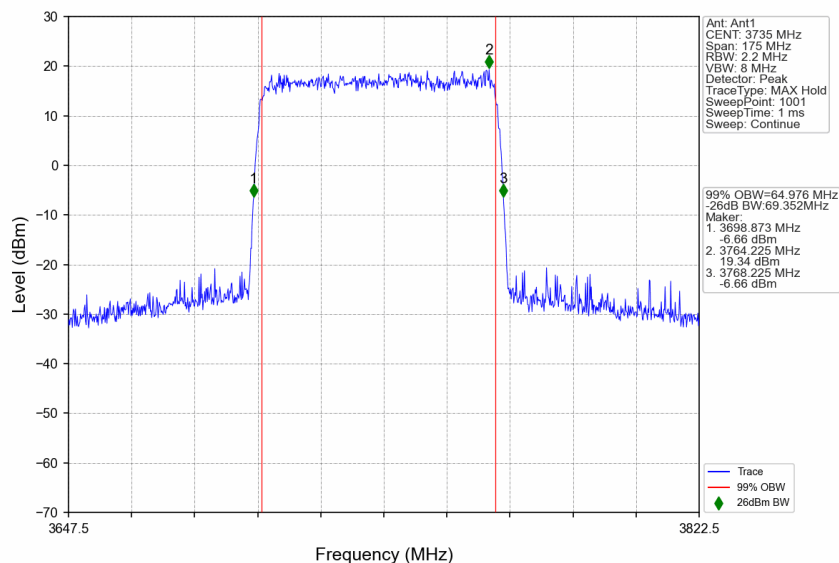
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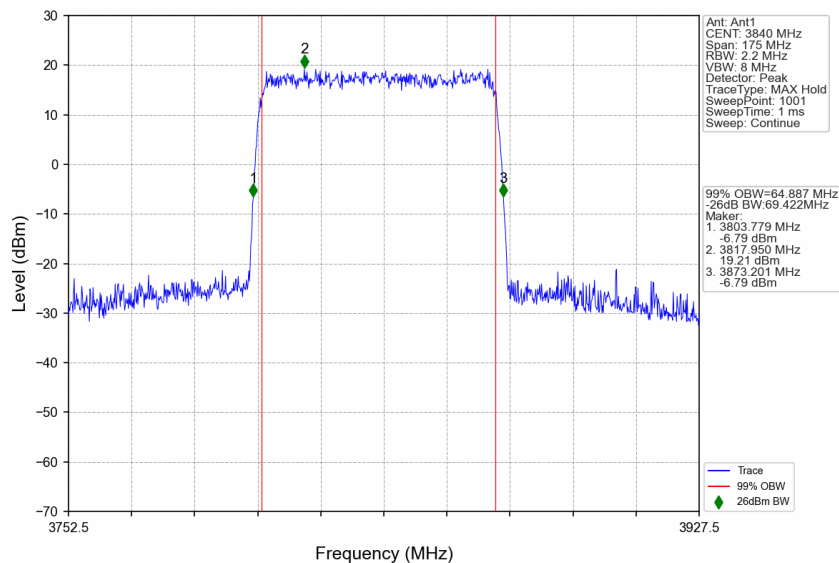
Rev.: 01

Page: 367 of 1239

n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_16_QAM_3735MHz_Outer_Full



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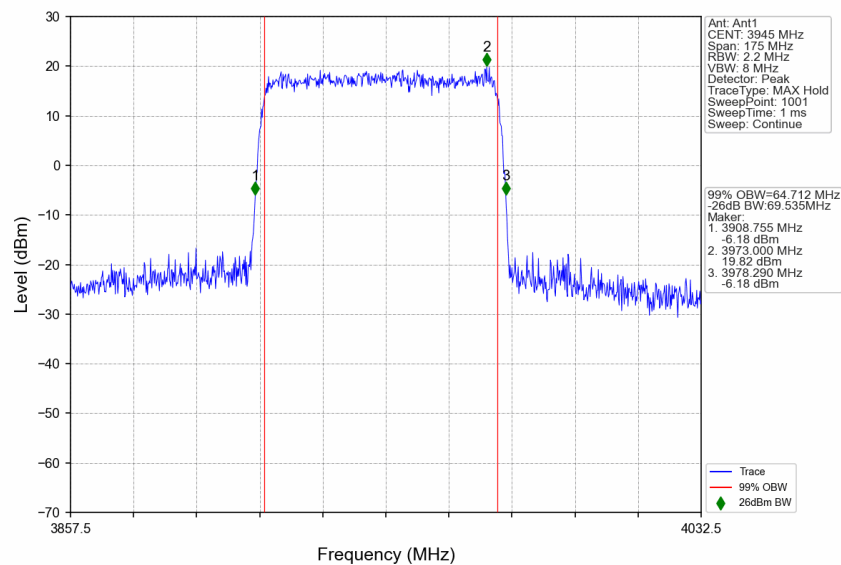
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Report No.: SEWM2311000456RG02

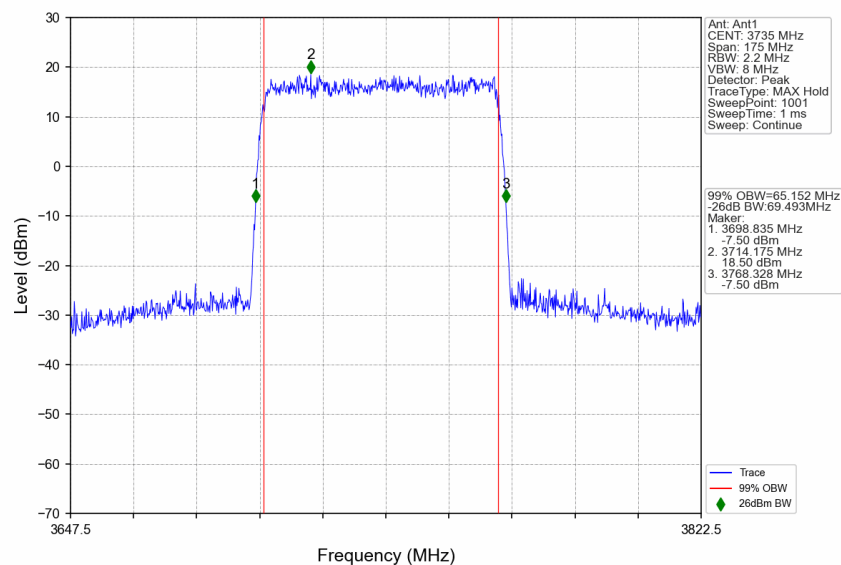
Rev.: 01

Page: 368 of 1239

n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_16_QAM_3945MHz_Outer_Full



n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_64_QAM_3735MHz_Outer_Full



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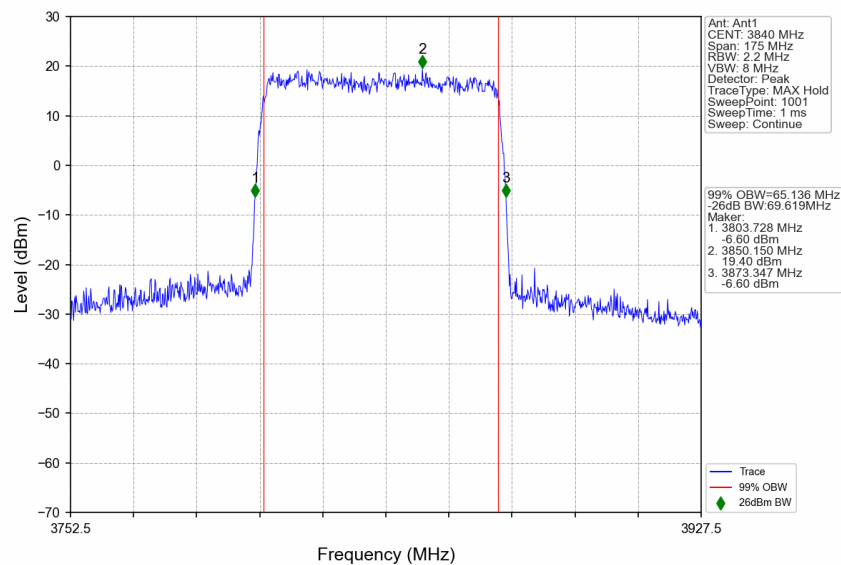
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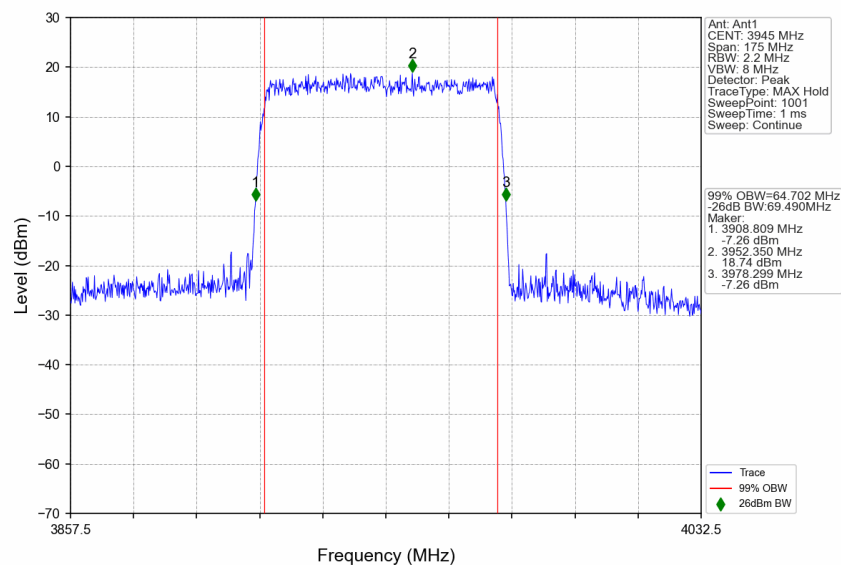
Rev.: 01

Page: 369 of 1239

n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_64_QAM_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_64_QAM_3945MHz_Outer_Full



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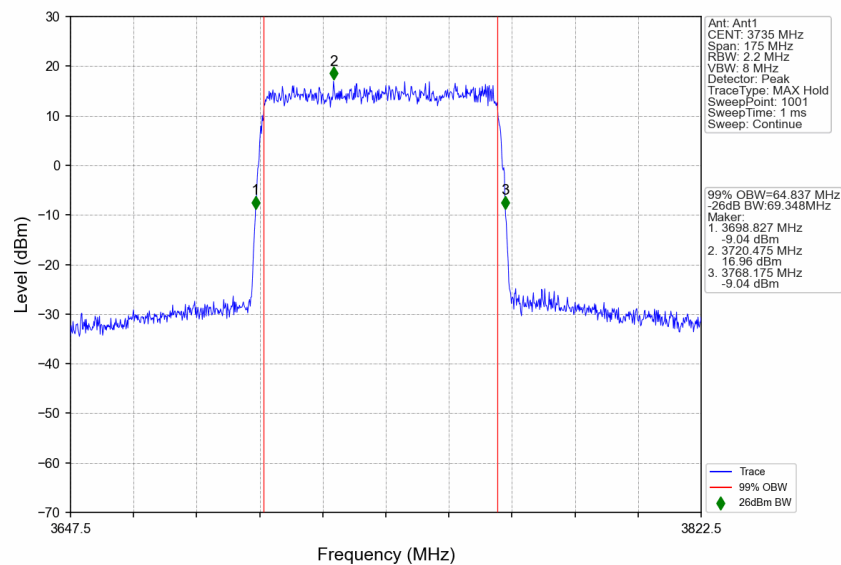
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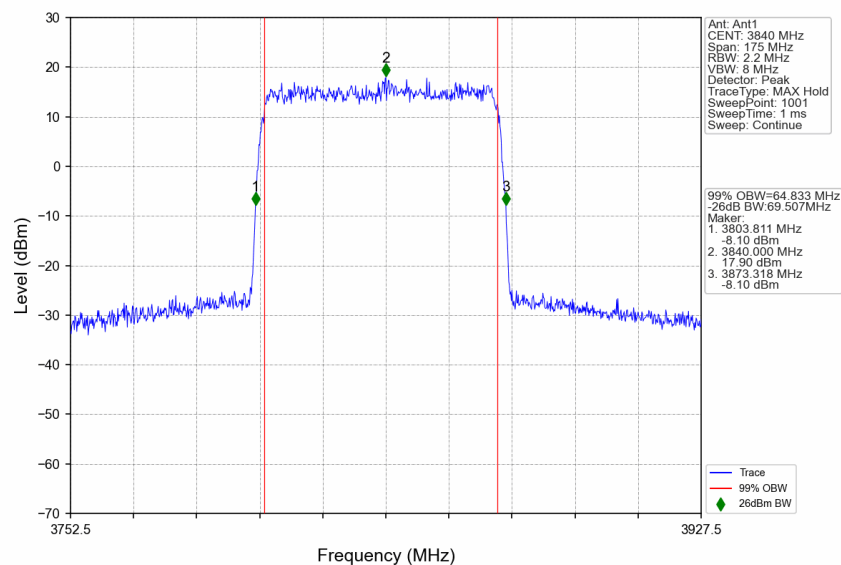
Rev.: 01

Page: 370 of 1239

n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3735MHz_Outer_Full



n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3840MHz_Outer_Full



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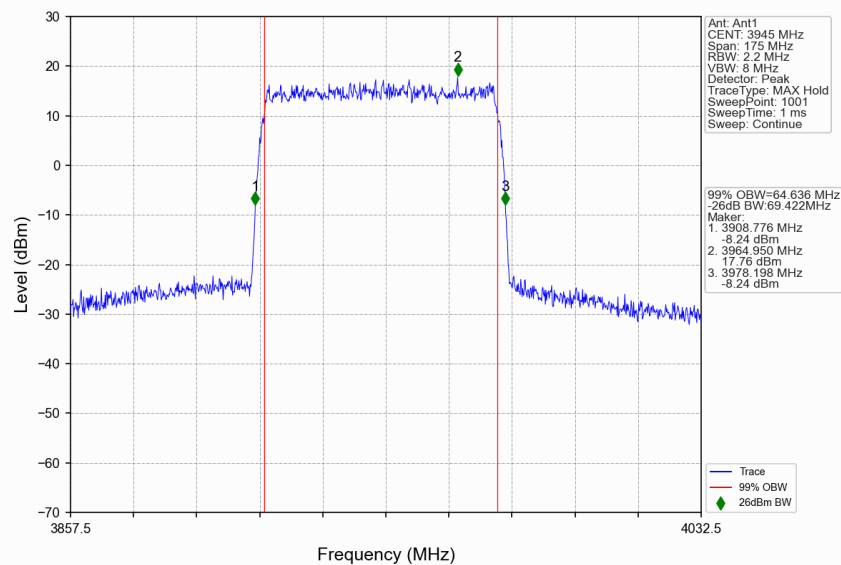
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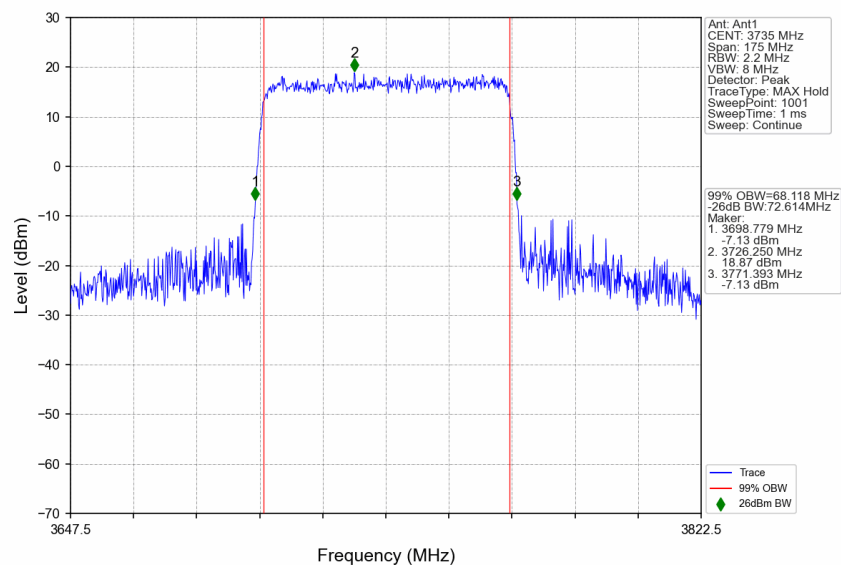
Rev.: 01

Page: 371 of 1239

n77a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3945MHz_Outer_Full



n77a_30kHz_SISO_NTNV_70MHz_CP-OFDM_QPSK_3735MHz_Outer_Full



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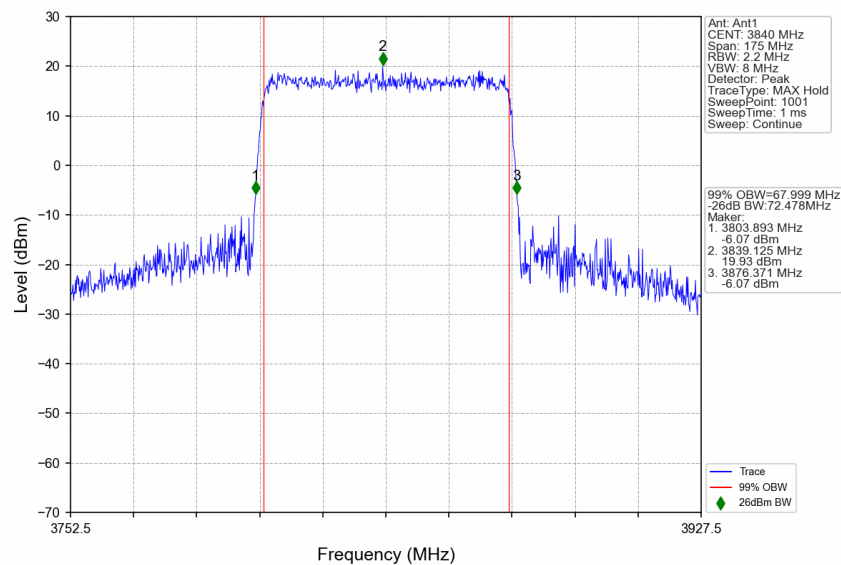
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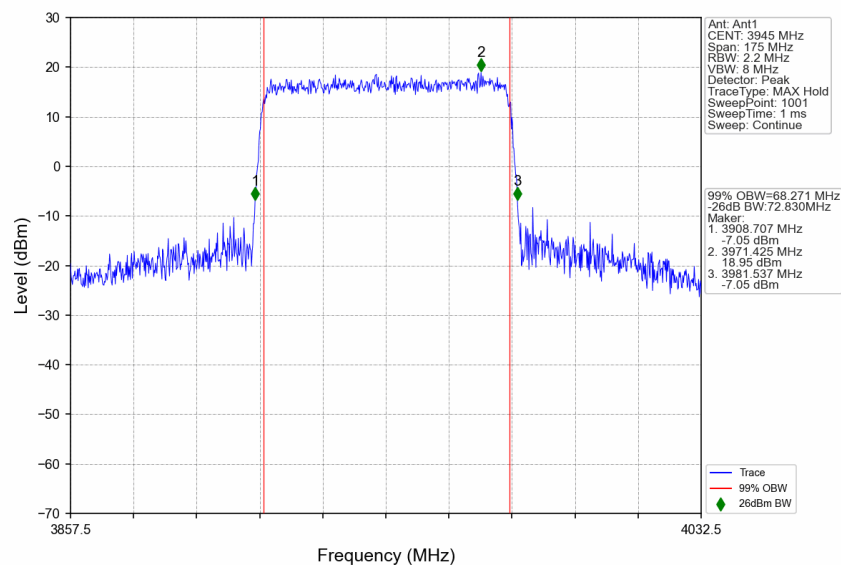
Rev.: 01

Page: 372 of 1239

n77a_30kHz_SISO_NTNV_70MHz_CP-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_70MHz_CP-OFDM QPSK_3945MHz_Outer_Full



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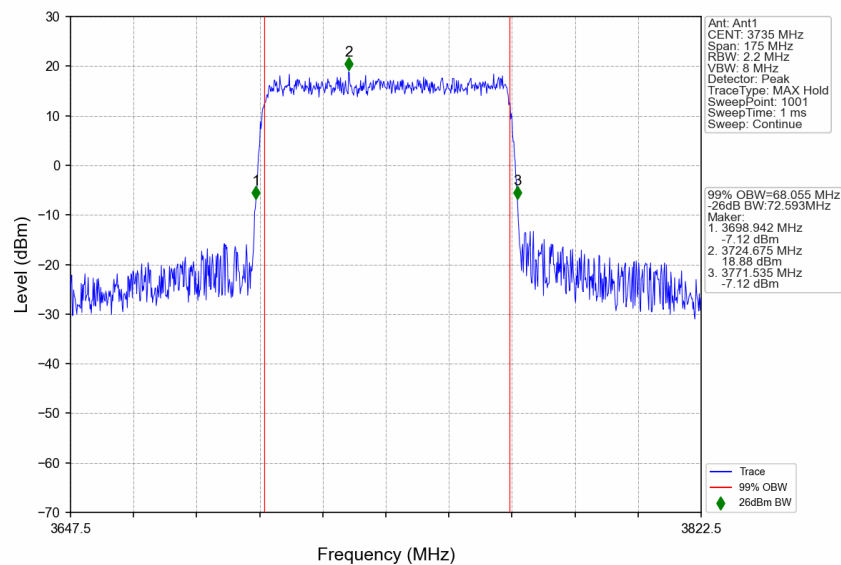
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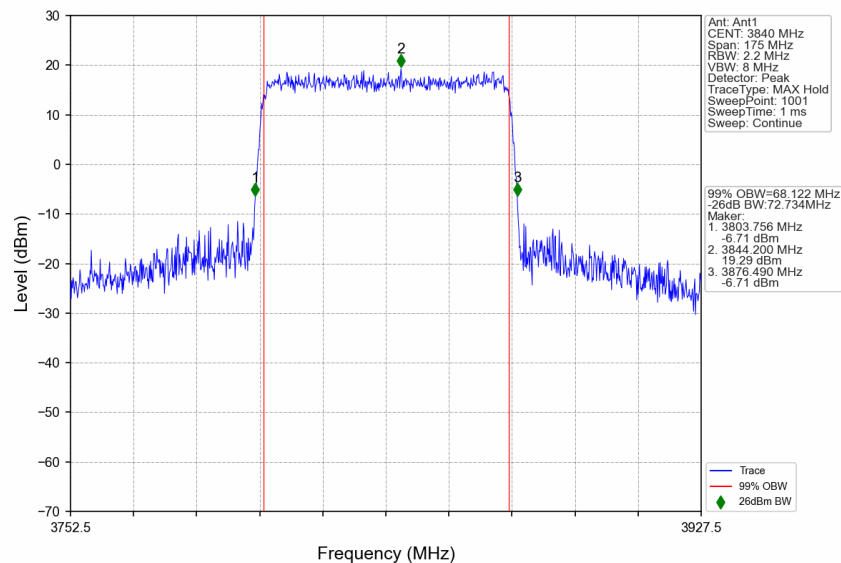
Rev.: 01

Page: 373 of 1239

n77a_30kHz_SISO_NTNV_70MHz_CP-OFDM_16_QAM_3735MHz_Outer_Full



n77a_30kHz_SISO_NTNV_70MHz_CP-OFDM_16_QAM_3840MHz_Outer_Full



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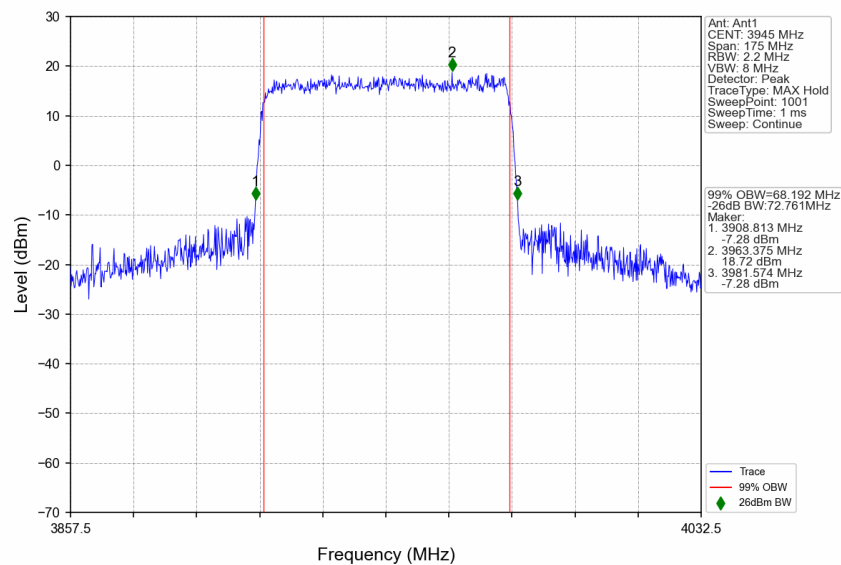
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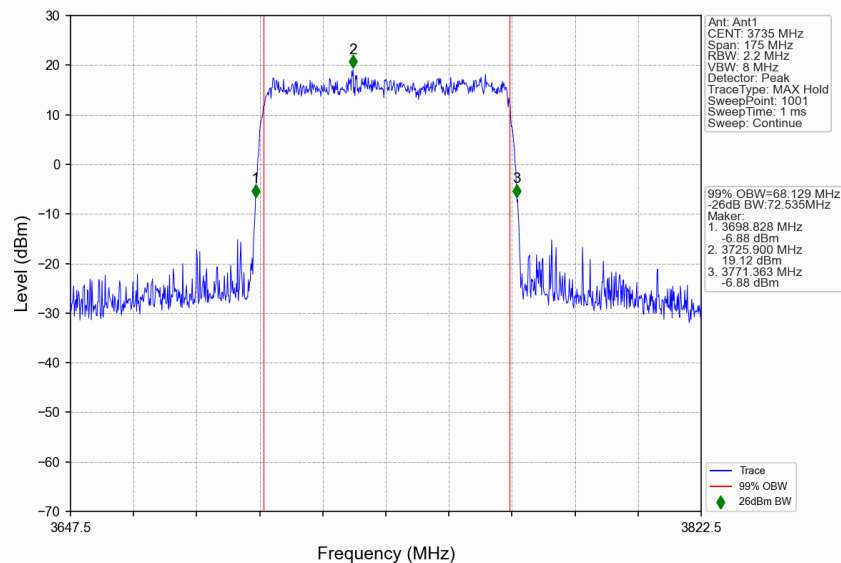
Rev.: 01

Page: 374 of 1239

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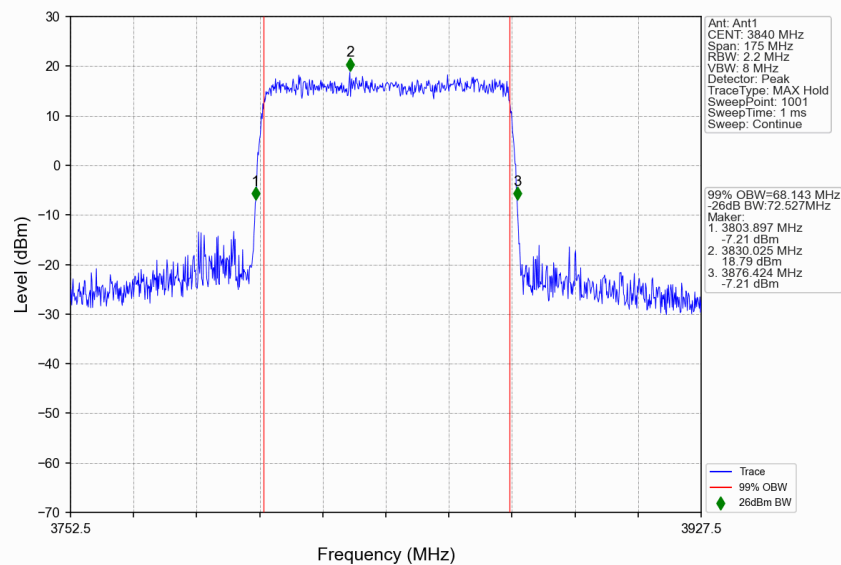
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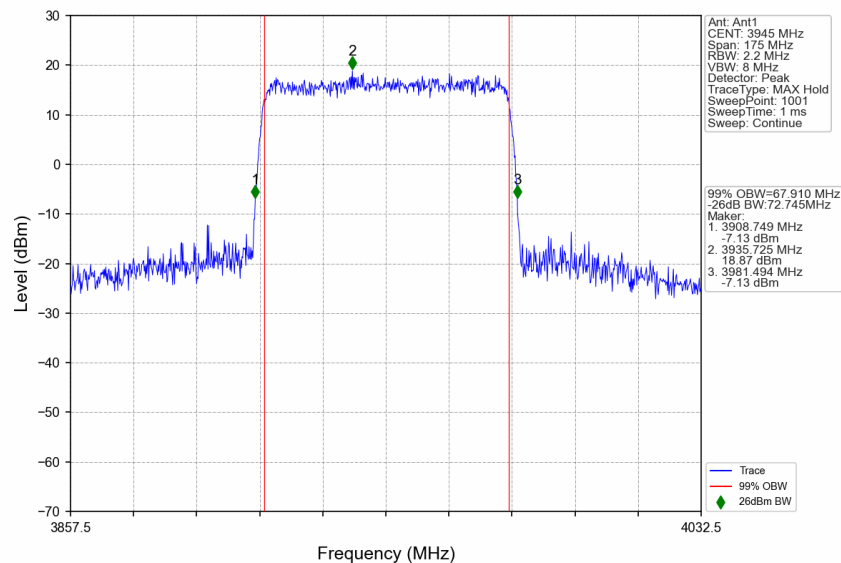
Rev.: 01

Page: 375 of 1239

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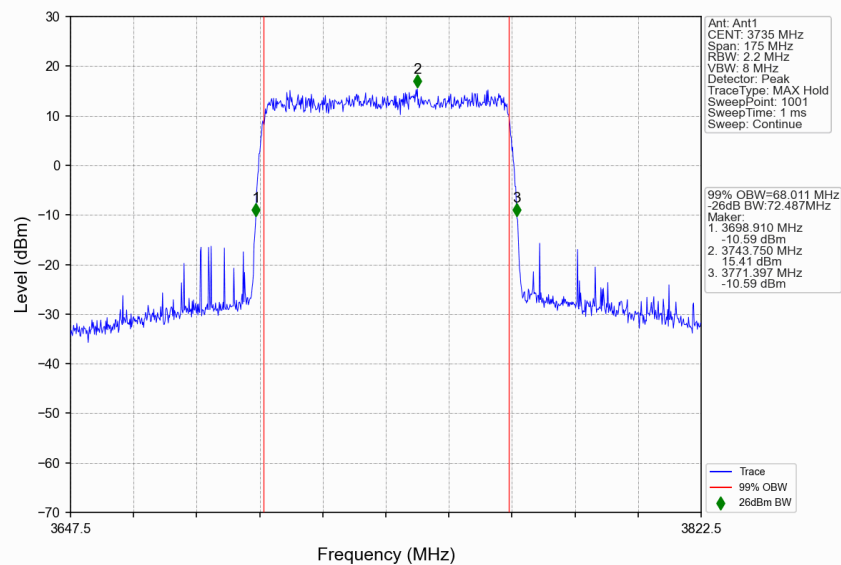
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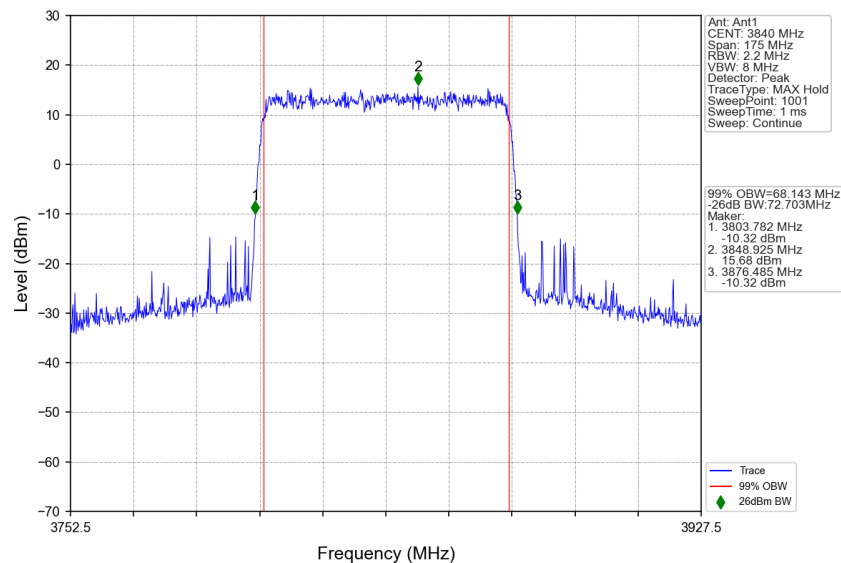
Rev.: 01

Page: 376 of 1239

n77a_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3735MHz_Outer_Full



n77a_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3840MHz_Outer_Full



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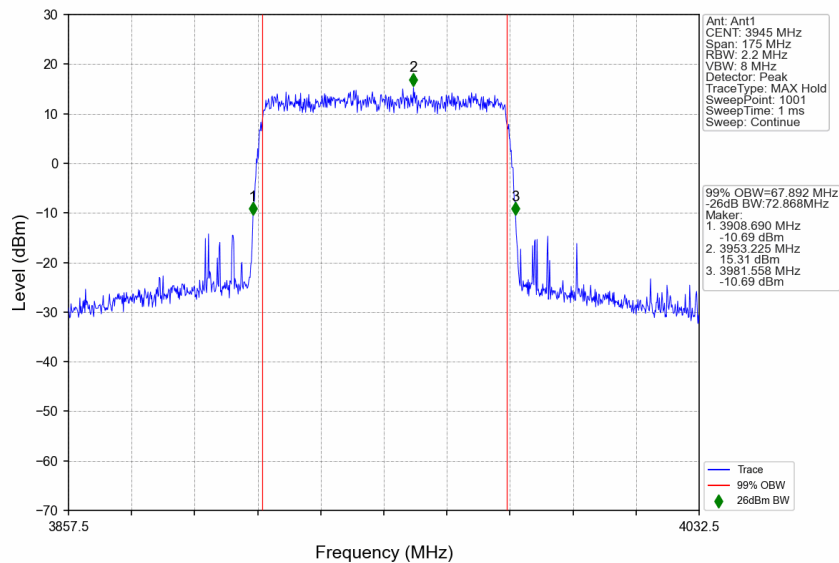
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Report No.: SEWM2311000456RG02

Rev.: 01

Page: 377 of 1239

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4.17 30k_SISO_80MHz_NTNV

4.17.1 Test Result

5G NR n77a SCS=30kHz SISO 80MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3740.01	Outer Full	77.86	82.93	/	Pass
	3840	Outer Full	77.80	82.66	/	Pass
	3939.99	Outer Full	77.72	83.03	/	Pass
DFT-s-OFDM QPSK	3740.01	Outer Full	77.73	82.91	/	Pass
	3840	Outer Full	77.67	83.02	/	Pass
	3939.99	Outer Full	77.67	83.03	/	Pass
DFT-s-OFDM 16 QAM	3740.01	Outer Full	77.82	83.00	/	Pass
	3840	Outer Full	77.60	82.72	/	Pass
	3939.99	Outer Full	77.77	82.70	/	Pass
DFT-s-OFDM 64 QAM	3740.01	Outer Full	77.67	82.90	/	Pass
	3840	Outer Full	77.69	83.05	/	Pass
	3939.99	Outer Full	77.78	83.00	/	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer Full	77.71	82.74	/	Pass
	3840	Outer Full	77.73	82.85	/	Pass
	3939.99	Outer Full	77.62	82.70	/	Pass
CP-OFDM QPSK	3740.01	Outer Full	78.06	83.24	/	Pass
	3840	Outer Full	78.18	83.37	/	Pass
	3939.99	Outer Full	77.95	83.28	/	Pass
CP-OFDM 16 QAM	3740.01	Outer Full	78.01	83.28	/	Pass
	3840	Outer Full	78.05	83.17	/	Pass
	3939.99	Outer Full	78.08	83.34	/	Pass
CP-OFDM 64 QAM	3740.01	Outer Full	78.17	83.36	/	Pass
	3840	Outer Full	77.94	83.40	/	Pass
	3939.99	Outer Full	77.96	83.25	/	Pass
CP-OFDM 256 QAM	3740.01	Outer Full	77.88	83.17	/	Pass
	3840	Outer Full	78.11	83.09	/	Pass
	3939.99	Outer Full	78.26	83.42	/	Pass



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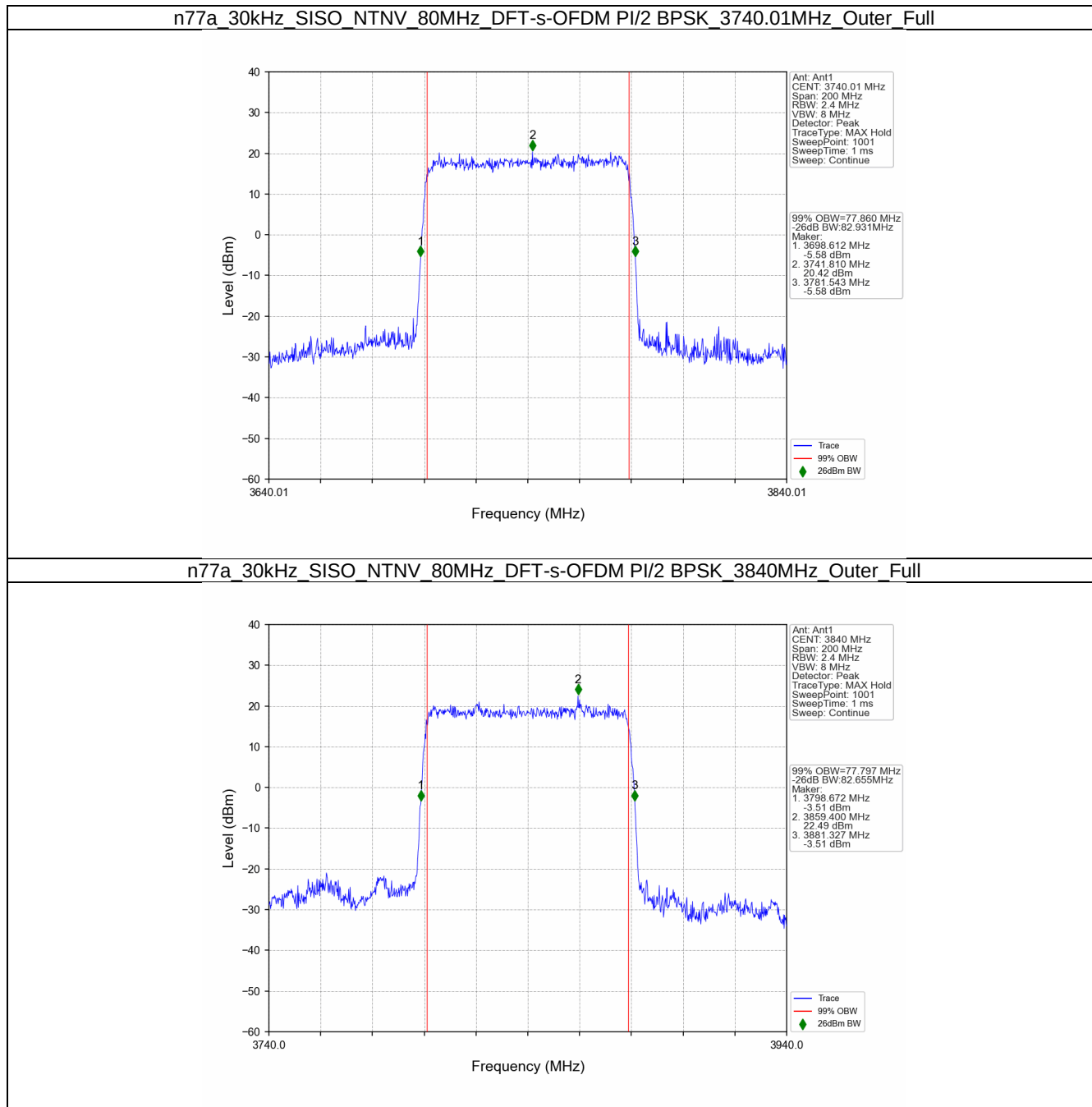
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Report No.: SEWM2311000456RG02

Rev.: 01

Page: 379 of 1239

4.17.2 Test Graph



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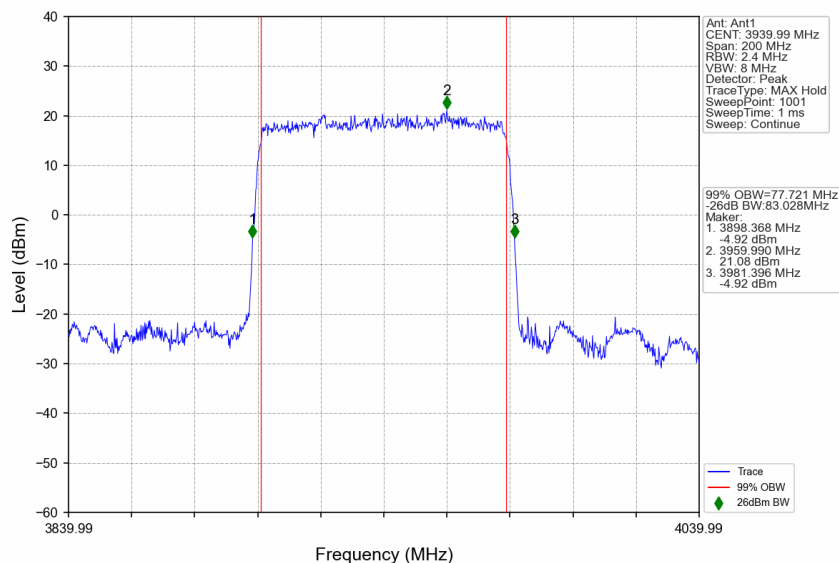
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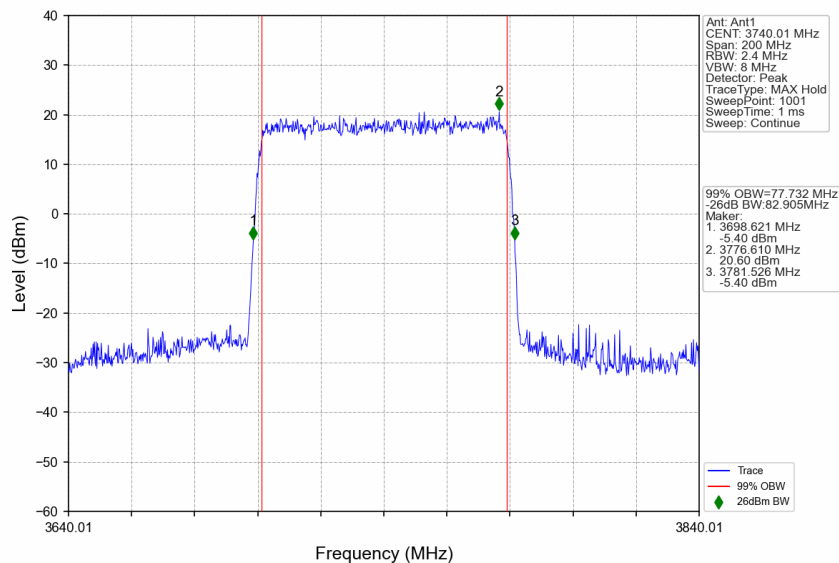
Rev.: 01

Page: 380 of 1239

n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM PI/2 BPSK_3939.99MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3740.01MHz_Outer_Full



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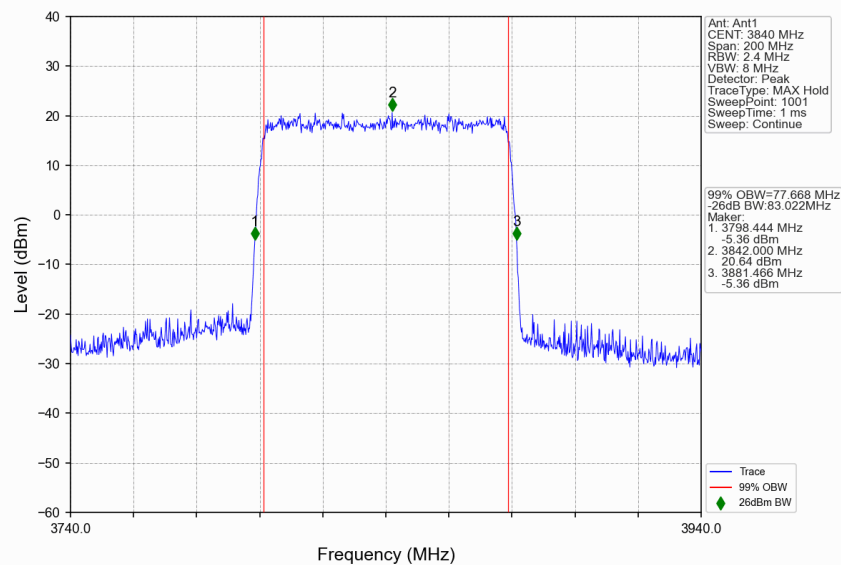
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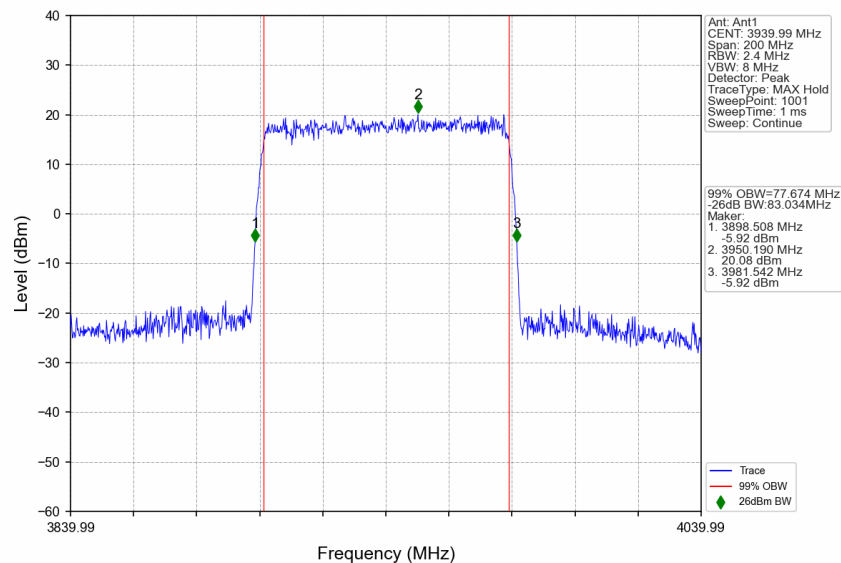
Rev.: 01

Page: 381 of 1239

n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3939.99MHz_Outer_Full



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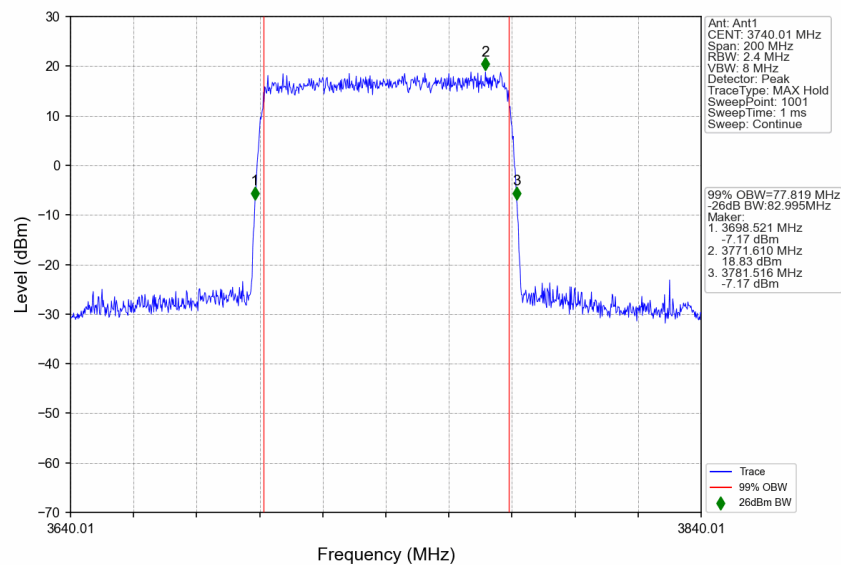
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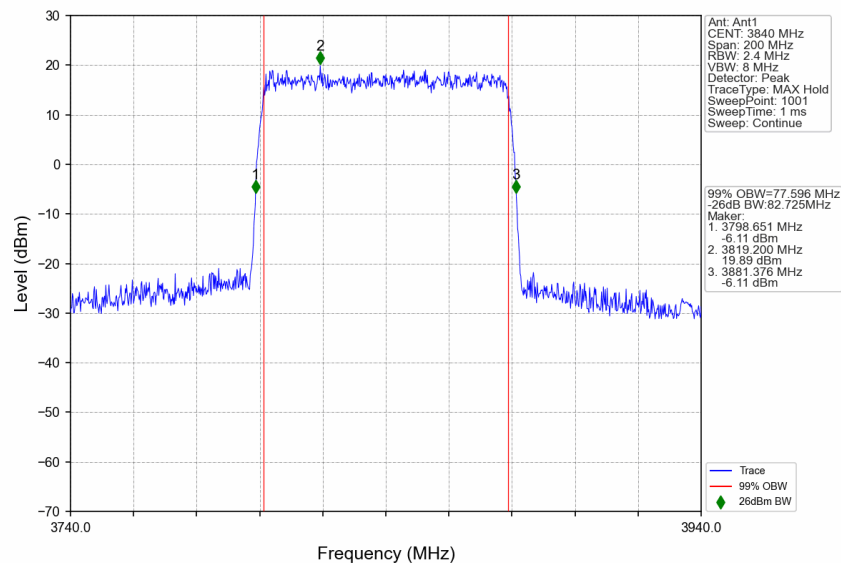
Rev.: 01

Page: 382 of 1239

n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_16_QAM_3740.01MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_16_QAM_3840MHz_Outer_Full



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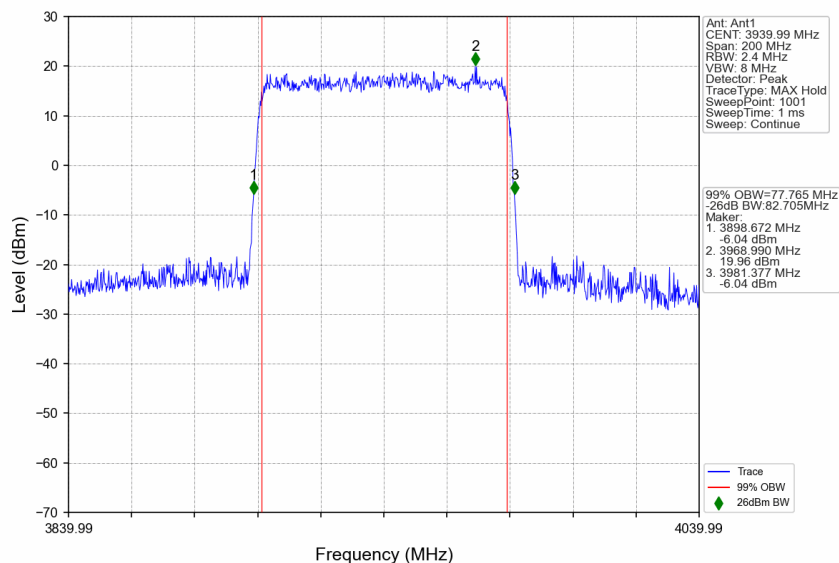
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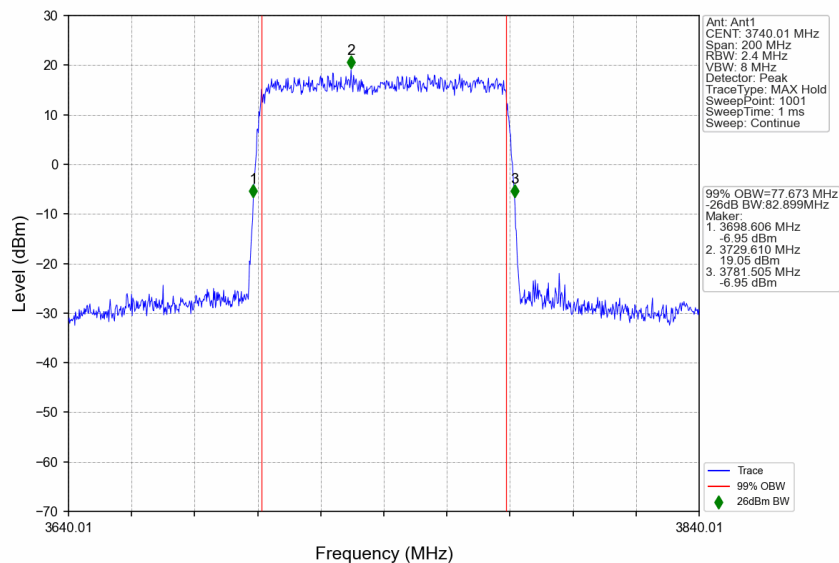
Rev.: 01

Page: 383 of 1239

n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_16_QAM_3939.99MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_64_QAM_3740.01MHz_Outer_Full



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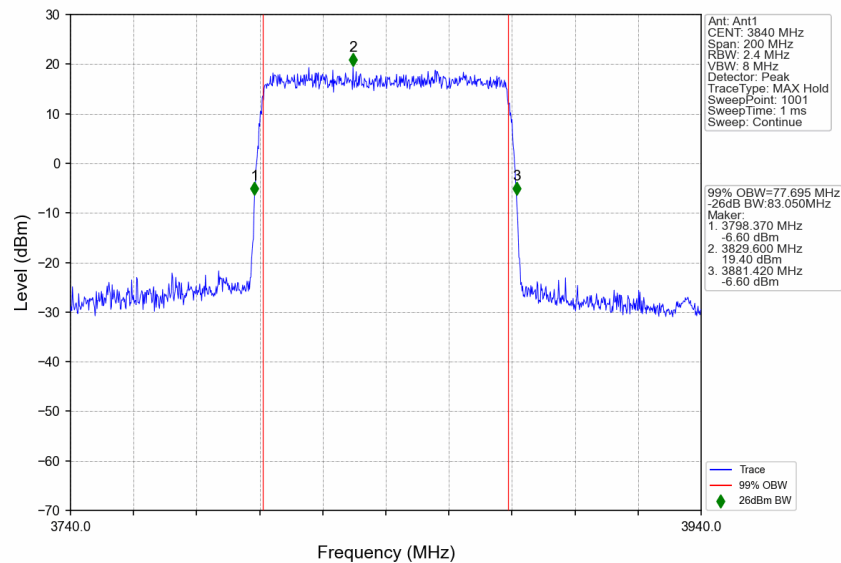
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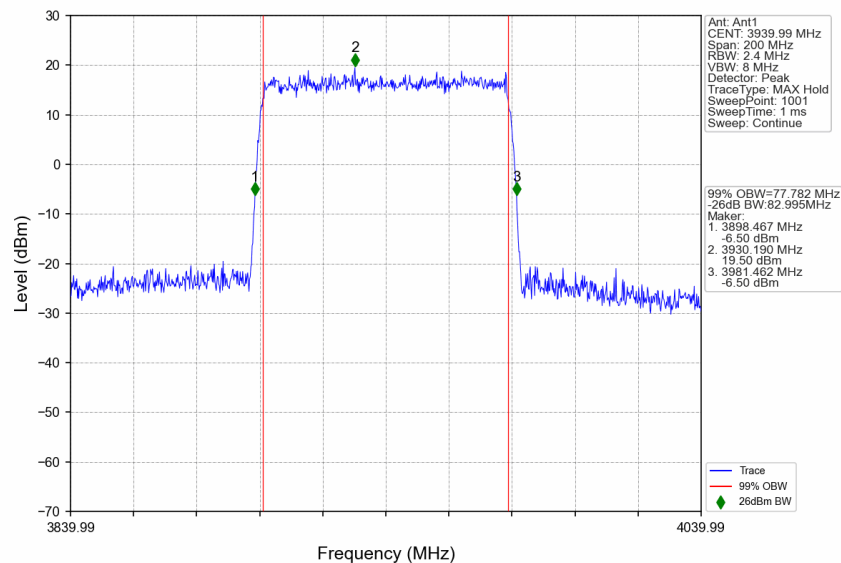
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Page: 384 of 1239

n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_64_QAM_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_64_QAM_3939.99MHz_Outer_Full



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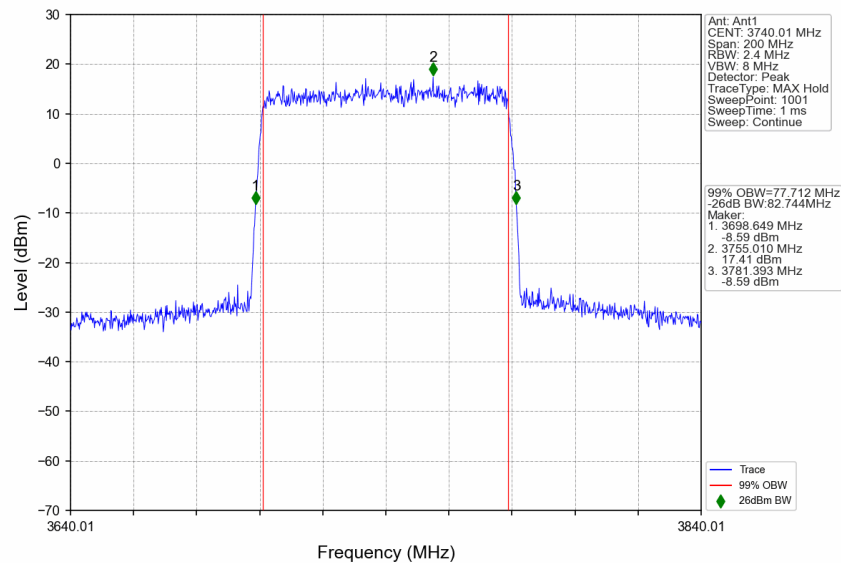
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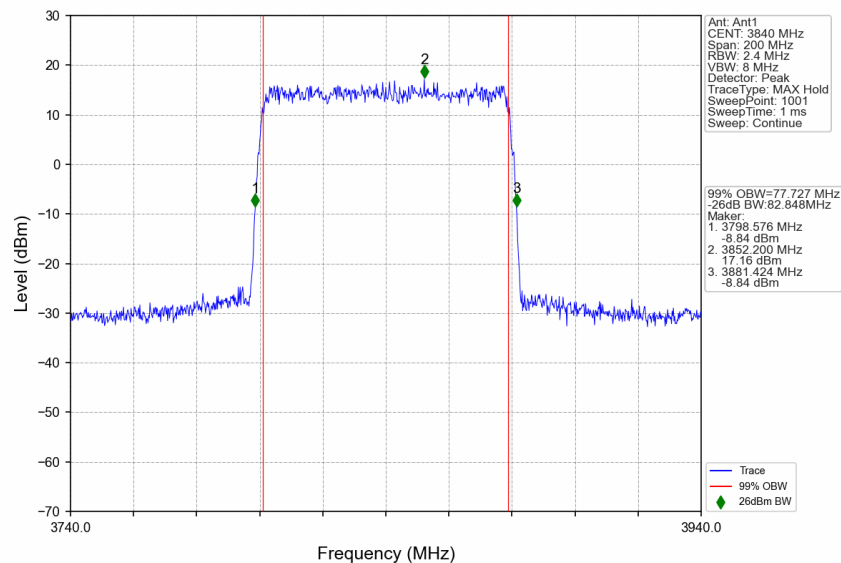
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Page: 385 of 1239

n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3740.01MHz_Outer_Full



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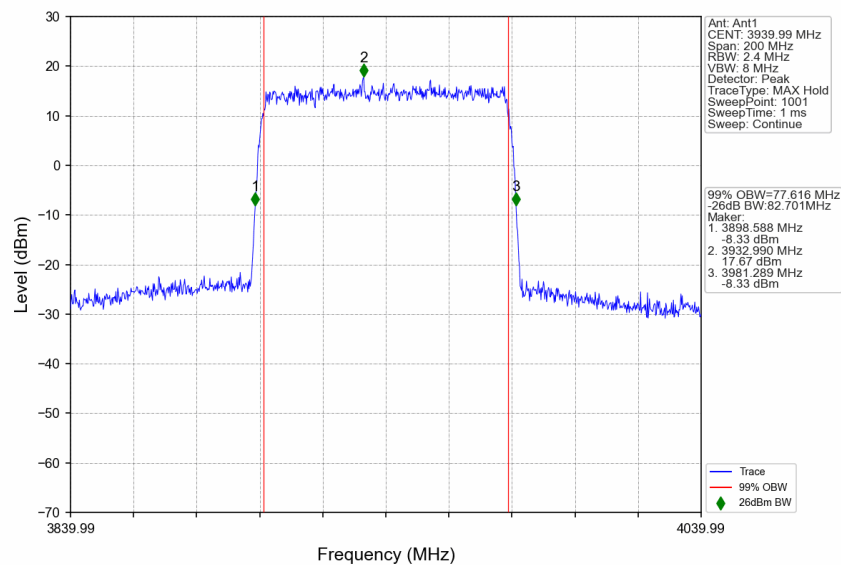
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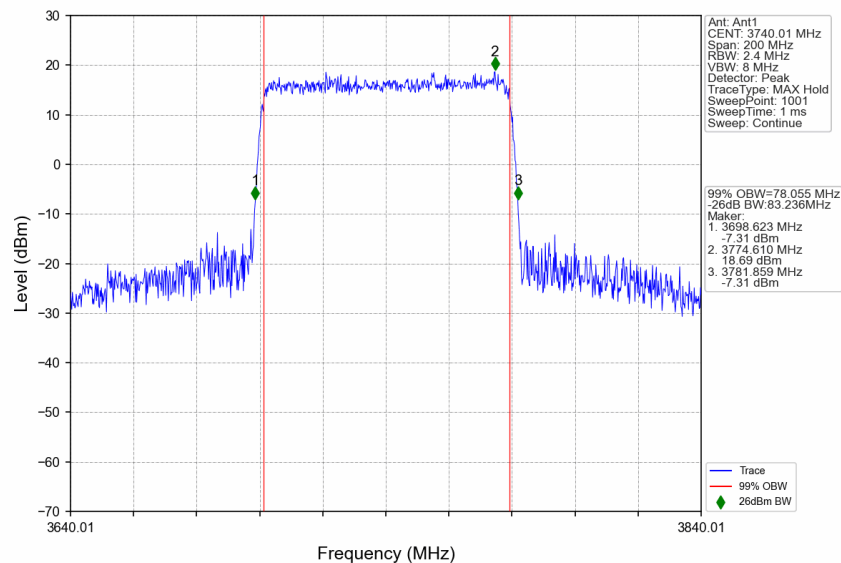
Rev.: 01

Page: 386 of 1239

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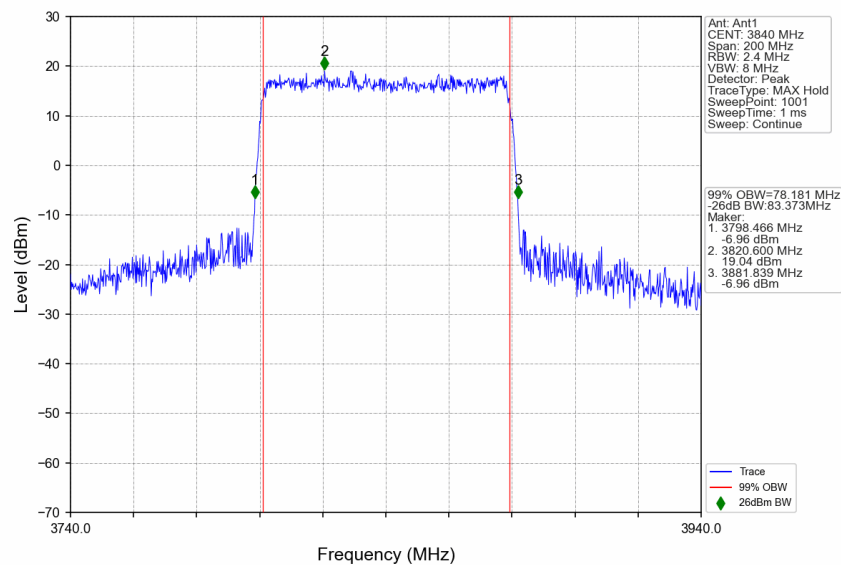
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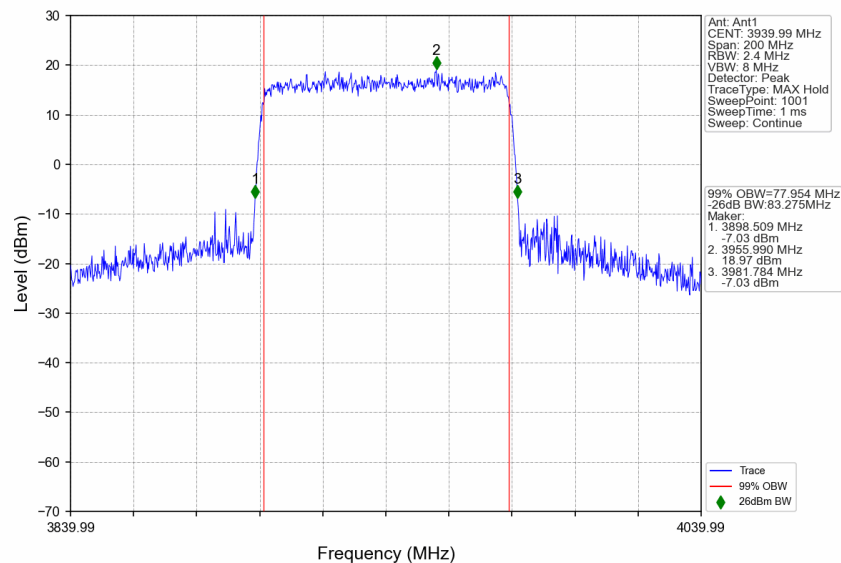
Rev.: 01

Page: 387 of 1239

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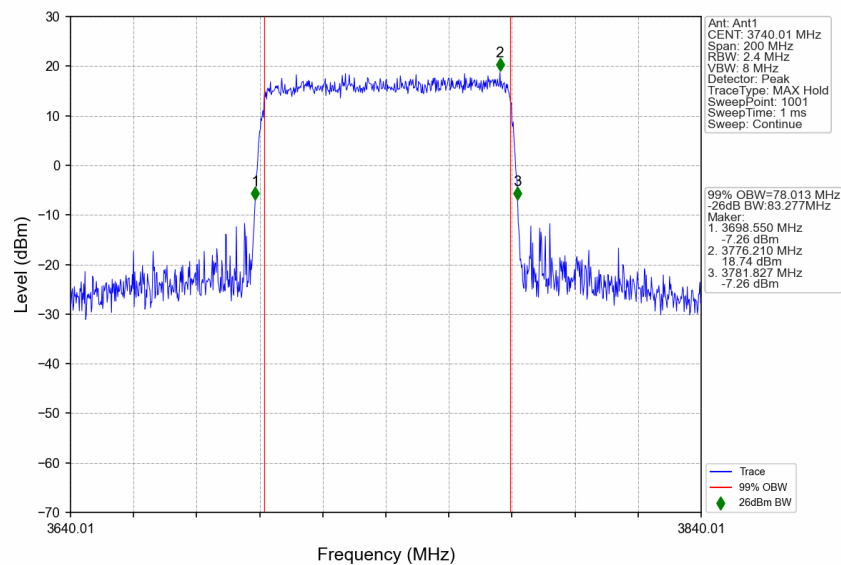
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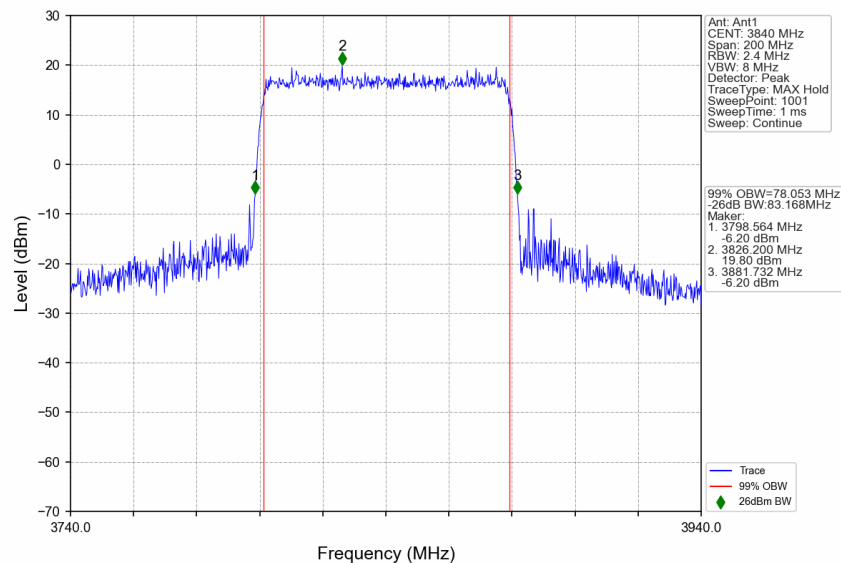
Rev.: 01

Page: 388 of 1239

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n77a_30kHz_SISO_NTNV_80MHz_CP-OFDM_16_QAM_3840MHz_Outer_Full



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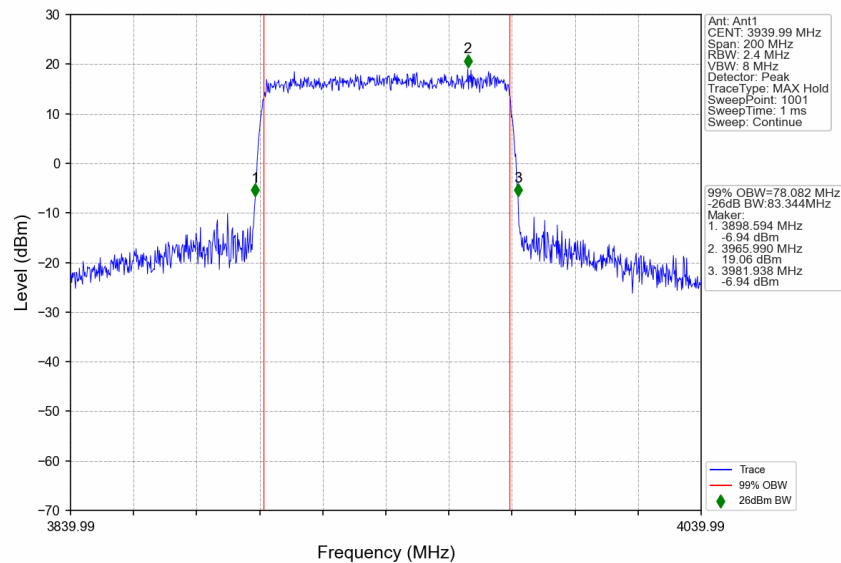
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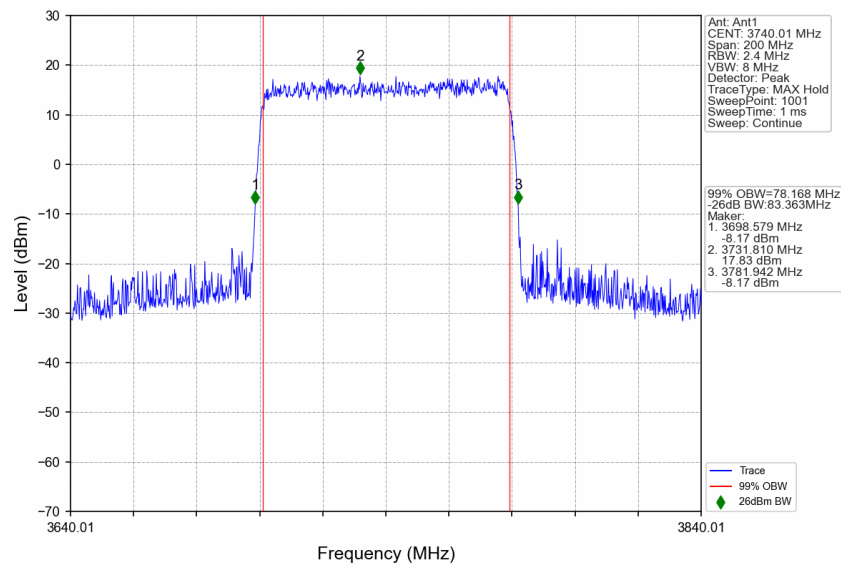
Rev.: 01

Page: 389 of 1239

n77a_30kHz_SISO_NTNV_80MHz_CP-OFDM 16 QAM_3939.99MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3740.01MHz_Outer_Full



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