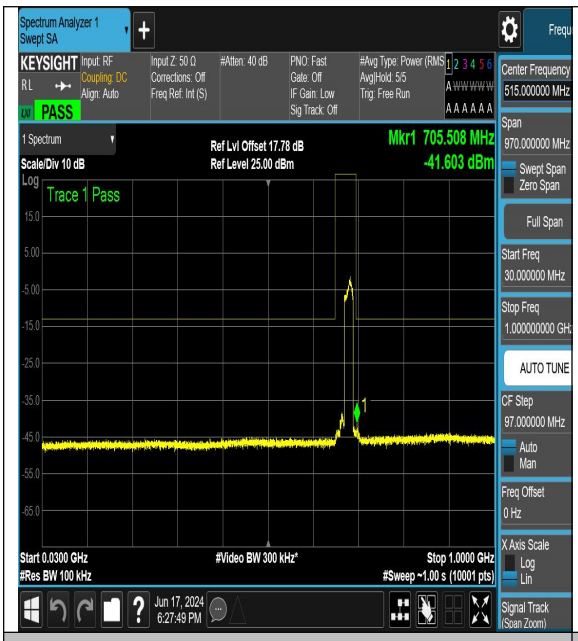

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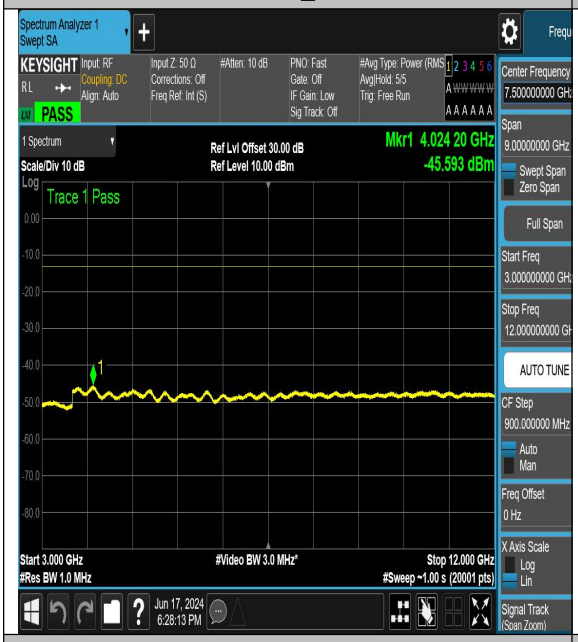

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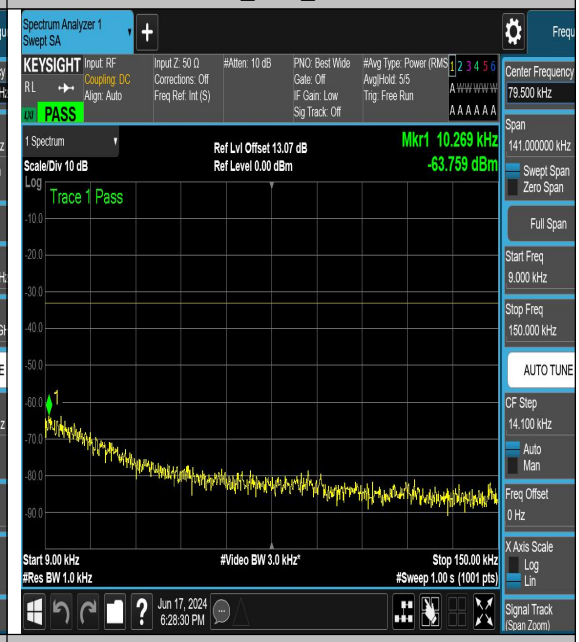

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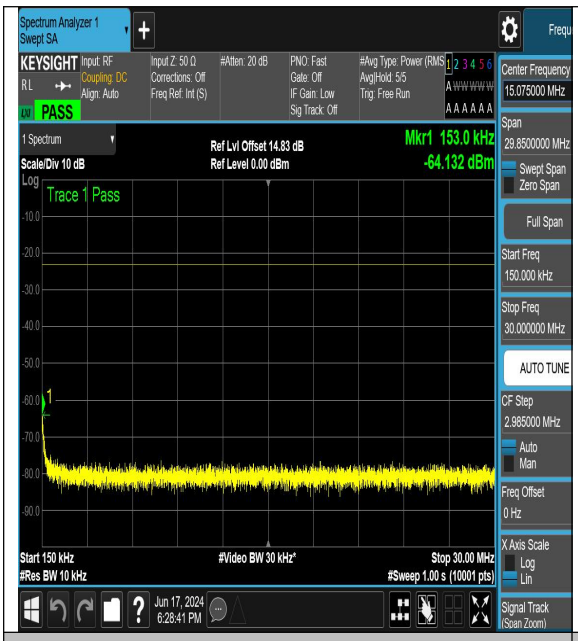

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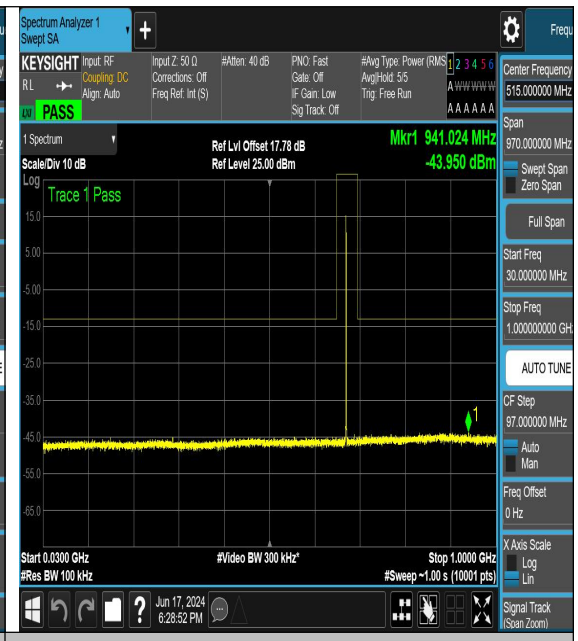

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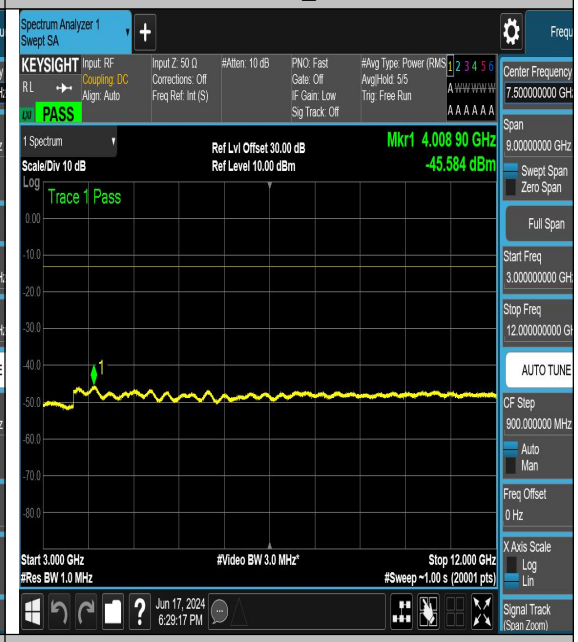

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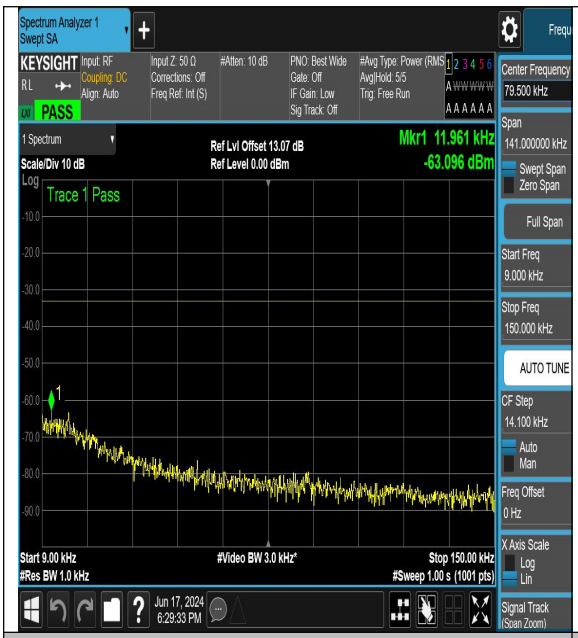

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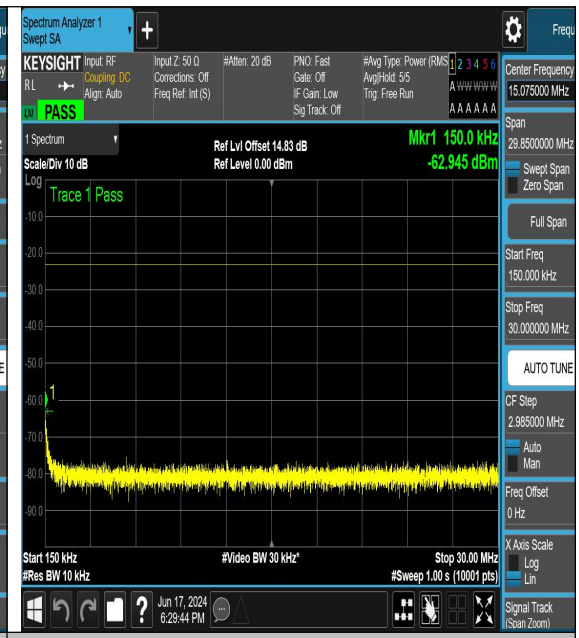

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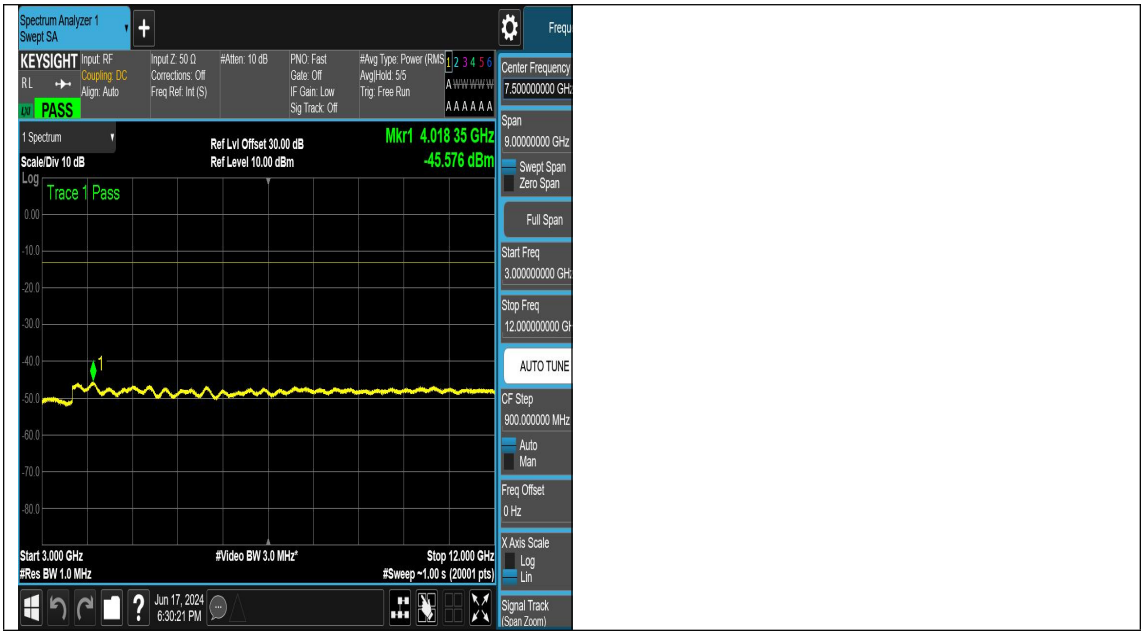
Spectrum Analyzer 1
Swept SA
KEYSIGHT
PASS
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 10 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 5/5
Trig: Free Run
1 Spectrum
Ref Lvl Offset 30.00 dB
Ref Level 10.00 dBm
Mkr1 4.018 35 GHz
-45.576 dBm
Scale/Div 10 dB
Log
Trace 1 Pass
Start 3.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz*
Stop 12.000 GHz
#Sweep ~1.00 s (20001 pts)
Jun 17, 2024
6:30:21 PM
Center Frequency
7.500000000 GHz
Span
9.00000000 GHz
Swept Span
Zero Span
Full Span
Start Freq
3.000000000 GHz
Stop Freq
12.000000000 GHz
AUTO TUNE
CF Step
900.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Scan Zoom)

Appendix F: Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N71	15	5	DFT-QPSK	L	Outer_Full	VL	NT	18.000000	0.027047	PASS
N71	15	5	DFT-QPSK	L	Outer_Full	VN	NT	10.000000	0.015026	PASS
N71	15	5	DFT-QPSK	L	Outer_Full	VH	NT	10.000000	0.015026	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	VL	NT	2.000000	0.003005	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	VN	NT	7.000000	0.010518	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	VH	NT	9.000000	0.013524	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	VL	NT	5.000000	0.007348	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	VN	NT	7.000000	0.010287	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	VH	NT	10.000000	0.014695	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	VL	NT	10.000000	0.014695	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	VN	NT	1.000000	0.001470	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	VH	NT	19.000000	0.027921	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	VL	NT	2.000000	0.002876	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	VN	NT	16.000000	0.023005	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	VH	NT	3.000000	0.004313	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	VL	NT	5.000000	0.007189	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	VN	NT	16.000000	0.023005	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	VH	NT	5.000000	0.007189	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	VL	NT	19.000000	0.028443	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	VN	NT	2.000000	0.002994	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	VH	NT	4.000000	0.005988	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	VL	NT	3.000000	0.004491	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	VN	NT	4.000000	0.005988	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	VH	NT	3.000000	0.004491	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	VL	NT	16.000000	0.023512	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	VN	NT	2.000000	0.002939	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	VH	NT	1.000000	0.001470	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	VL	NT	13.000000	0.019104	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	VN	NT	4.000000	0.005878	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	VH	NT	3.000000	0.004409	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	VL	NT	19.000000	0.027417	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	VN	NT	4.000000	0.005772	PASS

N71	15	10	DFT-QPSK	H	Outer_Full	VH	NT	11.000000	0.015873	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	VL	NT	15.000000	0.021645	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	VN	NT	15.000000	0.021645	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	VH	NT	5.000000	0.007215	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	VL	NT	8.000000	0.011931	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	VN	NT	3.000000	0.004474	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	VH	NT	12.000000	0.017897	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	VL	NT	10.000000	0.014914	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	VN	NT	12.000000	0.017897	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	VH	NT	14.000000	0.020880	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	VL	NT	7.000000	0.010287	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	VN	NT	6.000000	0.008817	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	VH	NT	14.000000	0.020573	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	VL	NT	19.000000	0.027921	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	VN	NT	1.000000	0.001470	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	VH	NT	12.000000	0.017634	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	VL	NT	11.000000	0.015930	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	VN	NT	9.000000	0.013034	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	VH	NT	14.000000	0.020275	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	VL	NT	3.000000	0.004345	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	VN	NT	4.000000	0.005793	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	VH	NT	13.000000	0.018827	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	VL	NT	5.000000	0.007429	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	VN	NT	17.000000	0.025260	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	VH	NT	1.000000	0.001486	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	VL	NT	12.000000	0.017831	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	VN	NT	13.000000	0.019316	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	VH	NT	12.000000	0.017831	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	VL	NT	7.000000	0.010287	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	VN	NT	2.000000	0.002939	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	VH	NT	11.000000	0.016164	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	VL	NT	18.000000	0.026451	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	VN	NT	13.000000	0.019104	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	VH	NT	3.000000	0.004409	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	VL	NT	6.000000	0.008721	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	VN	NT	8.000000	0.011628	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	VH	NT	2.000000	0.002907	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	VL	NT	4.000000	0.005814	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	VN	NT	2.000000	0.002907	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	VH	NT	1.000000	0.001453	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N71	15	5	DFT-QPSK	L	Outer_Full	NV	-30	12.000000	0.018032	PASS
N71	15	5	DFT-QPSK	L	Outer_Full	NV	-20	14.000000	0.021037	PASS
N71	15	5	DFT-QPSK	L	Outer_Full	NV	-10	14.000000	0.021037	PASS
N71	15	5	DFT-QPSK	L	Outer_Full	NV	0	4.000000	0.006011	PASS
N71	15	5	DFT-QPSK	L	Outer_Full	NV	10	7.000000	0.010518	PASS
N71	15	5	DFT-QPSK	L	Outer_Full	NV	20	6.000000	0.009016	PASS
N71	15	5	DFT-QPSK	L	Outer_Full	NV	30	11.000000	0.016529	PASS
N71	15	5	DFT-QPSK	L	Outer_Full	NV	40	11.000000	0.016529	PASS
N71	15	5	DFT-QPSK	L	Outer_Full	NV	50	17.000000	0.025545	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	NV	-30	8.000000	0.012021	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	NV	-20	17.000000	0.025545	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	NV	-10	10.000000	0.015026	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	NV	0	19.000000	0.028550	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	NV	10	7.000000	0.010518	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	NV	20	6.000000	0.009016	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	NV	30	15.000000	0.022539	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	NV	40	18.000000	0.027047	PASS
N71	15	5	DFT-16QAM	L	Outer_Full	NV	50	18.000000	0.027047	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	NV	-30	16.000000	0.023512	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	NV	-20	10.000000	0.014695	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	NV	-10	13.000000	0.019104	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	NV	0	12.000000	0.017634	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	NV	10	17.000000	0.024982	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	NV	20	7.000000	0.010287	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	NV	30	14.000000	0.020573	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	NV	40	1.000000	0.001470	PASS
N71	15	5	DFT-QPSK	M	Outer_Full	NV	50	4.000000	0.005878	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	NV	-30	5.000000	0.007348	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	NV	-20	8.000000	0.011756	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	NV	-10	7.000000	0.010287	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	NV	0	17.000000	0.024982	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	NV	10	4.000000	0.005878	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	NV	20	3.000000	0.004409	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	NV	30	12.000000	0.017634	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	NV	40	19.000000	0.027921	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	NV	50	5.000000	0.007348	PASS

N71	15	5	DFT-QPSK	H	Outer_Full	NV	-30	12.000000	0.017254	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	NV	-20	12.000000	0.017254	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	NV	-10	2.000000	0.002876	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	NV	0	7.000000	0.010065	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	NV	10	2.000000	0.002876	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	NV	20	12.000000	0.017254	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	NV	30	18.000000	0.025881	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	NV	40	13.000000	0.018692	PASS
N71	15	5	DFT-QPSK	H	Outer_Full	NV	50	18.000000	0.025881	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	NV	-30	7.000000	0.010065	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	NV	-20	13.000000	0.018692	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	NV	-10	13.000000	0.018692	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	NV	0	19.000000	0.027318	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	NV	10	7.000000	0.010065	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	NV	20	16.000000	0.023005	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	NV	30	9.000000	0.012940	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	NV	40	14.000000	0.020129	PASS
N71	15	5	DFT-16QAM	H	Outer_Full	NV	50	4.000000	0.005751	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	NV	-30	6.000000	0.008982	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	NV	-20	15.000000	0.022455	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	NV	-10	14.000000	0.020958	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	NV	0	5.000000	0.007485	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	NV	10	3.000000	0.004491	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	NV	20	13.000000	0.019461	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	NV	30	19.000000	0.028443	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	NV	40	18.000000	0.026946	PASS
N71	15	10	DFT-QPSK	L	Outer_Full	NV	50	16.000000	0.023952	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	NV	-30	10.000000	0.014970	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	NV	-20	4.000000	0.005988	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	NV	-10	9.000000	0.013473	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	NV	0	19.000000	0.028443	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	NV	10	18.000000	0.026946	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	NV	20	5.000000	0.007485	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	NV	30	10.000000	0.014970	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	NV	40	13.000000	0.019461	PASS
N71	15	10	DFT-16QAM	L	Outer_Full	NV	50	19.000000	0.028443	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	NV	-30	3.000000	0.004409	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	NV	-20	6.000000	0.008817	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	NV	-10	12.000000	0.017634	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	NV	0	12.000000	0.017634	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	NV	10	11.000000	0.016164	PASS

N71	15	10	DFT-QPSK	M	Outer_Full	NV	20	14.000000	0.020573	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	NV	30	1.000000	0.001470	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	NV	40	4.000000	0.005878	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	NV	50	10.000000	0.014695	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	NV	-30	5.000000	0.007348	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	NV	-20	6.000000	0.008817	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	NV	-10	12.000000	0.017634	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	NV	0	5.000000	0.007348	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	NV	10	11.000000	0.016164	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	NV	20	14.000000	0.020573	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	NV	30	19.000000	0.027921	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	NV	40	9.000000	0.013226	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	NV	50	15.000000	0.022043	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	NV	-30	1.000000	0.001443	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	NV	-20	6.000000	0.008658	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	NV	-10	17.000000	0.024531	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	NV	0	8.000000	0.011544	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	NV	10	4.000000	0.005772	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	NV	20	10.000000	0.014430	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	NV	30	13.000000	0.018759	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	NV	40	19.000000	0.027417	PASS
N71	15	10	DFT-QPSK	H	Outer_Full	NV	50	19.000000	0.027417	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	NV	-30	16.000000	0.023088	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	NV	-20	17.000000	0.024531	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	NV	-10	2.000000	0.002886	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	NV	0	1.000000	0.001443	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	NV	10	19.000000	0.027417	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	NV	20	10.000000	0.014430	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	NV	30	16.000000	0.023088	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	NV	40	16.000000	0.023088	PASS
N71	15	10	DFT-16QAM	H	Outer_Full	NV	50	6.000000	0.008658	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	NV	-30	18.000000	0.026846	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	NV	-20	13.000000	0.019389	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	NV	-10	18.000000	0.026846	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	NV	0	11.000000	0.016406	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	NV	10	1.000000	0.001491	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	NV	20	1.000000	0.001491	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	NV	30	7.000000	0.010440	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	NV	40	7.000000	0.010440	PASS
N71	15	15	DFT-QPSK	L	Outer_Full	NV	50	13.000000	0.019389	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	NV	-30	18.000000	0.026846	PASS

N71	15	15	DFT-16QAM	L	Outer_Full	NV	-20	18.000000	0.026846	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	NV	-10	5.000000	0.007457	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	NV	0	15.000000	0.022371	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	NV	10	2.000000	0.002983	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	NV	20	7.000000	0.010440	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	NV	30	13.000000	0.019389	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	NV	40	13.000000	0.019389	PASS
N71	15	15	DFT-16QAM	L	Outer_Full	NV	50	12.000000	0.017897	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	NV	-30	4.000000	0.005878	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	NV	-20	10.000000	0.014695	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	NV	-10	10.000000	0.014695	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	NV	0	9.000000	0.013226	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	NV	10	19.000000	0.027921	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	NV	20	9.000000	0.013226	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	NV	30	19.000000	0.027921	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	NV	40	6.000000	0.008817	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	NV	50	12.000000	0.017634	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	NV	-30	2.000000	0.002939	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	NV	-20	2.000000	0.002939	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	NV	-10	7.000000	0.010287	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	NV	0	11.000000	0.016164	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	NV	10	16.000000	0.023512	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	NV	20	16.000000	0.023512	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	NV	30	19.000000	0.027921	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	NV	40	19.000000	0.027921	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	NV	50	3.000000	0.004409	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	NV	-30	1.000000	0.001448	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	NV	-20	6.000000	0.008689	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	NV	-10	1.000000	0.001448	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	NV	0	10.000000	0.014482	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	NV	10	8.000000	0.011586	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	NV	20	13.000000	0.018827	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	NV	30	12.000000	0.017379	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	NV	40	10.000000	0.014482	PASS
N71	15	15	DFT-QPSK	H	Outer_Full	NV	50	8.000000	0.011586	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	NV	-30	3.000000	0.004345	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	NV	-20	14.000000	0.020275	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	NV	-10	10.000000	0.014482	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	NV	0	16.000000	0.023172	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	NV	10	2.000000	0.002896	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	NV	20	19.000000	0.027516	PASS

N71	15	15	DFT-16QAM	H	Outer_Full	NV	30	13.000000	0.018827	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	NV	40	15.000000	0.021723	PASS
N71	15	15	DFT-16QAM	H	Outer_Full	NV	50	13.000000	0.018827	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	NV	-30	13.000000	0.019316	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	NV	-20	12.000000	0.017831	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	NV	-10	12.000000	0.017831	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	NV	0	2.000000	0.002972	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	NV	10	2.000000	0.002972	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	NV	20	7.000000	0.010401	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	NV	30	1.000000	0.001486	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	NV	40	11.000000	0.016344	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	NV	50	17.000000	0.025260	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	NV	-30	11.000000	0.016344	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	NV	-20	14.000000	0.020802	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	NV	-10	1.000000	0.001486	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	NV	0	11.000000	0.016344	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	NV	10	17.000000	0.025260	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	NV	20	17.000000	0.025260	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	NV	30	1.000000	0.001486	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	NV	40	10.000000	0.014859	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	NV	50	2.000000	0.002972	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	NV	-30	4.000000	0.005878	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	NV	-20	4.000000	0.005878	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	NV	-10	14.000000	0.020573	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	NV	0	4.000000	0.005878	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	NV	10	2.000000	0.002939	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	NV	20	2.000000	0.002939	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	NV	30	4.000000	0.005878	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	NV	40	2.000000	0.002939	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	NV	50	2.000000	0.002939	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	NV	-30	6.000000	0.008817	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	NV	-20	6.000000	0.008817	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	NV	-10	11.000000	0.016164	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	NV	0	15.000000	0.022043	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	NV	10	1.000000	0.001470	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	NV	20	8.000000	0.011756	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	NV	30	17.000000	0.024982	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	NV	40	1.000000	0.001470	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	NV	50	1.000000	0.001470	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	NV	-30	13.000000	0.018895	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	NV	-20	7.000000	0.010174	PASS

N71	15	20	DFT-QPSK	H	Outer_Full	NV	-10	13.000000	0.018895	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	NV	0	7.000000	0.010174	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	NV	10	16.000000	0.023256	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	NV	20	19.000000	0.027616	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	NV	30	5.000000	0.007267	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	NV	40	12.000000	0.017442	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	NV	50	2.000000	0.002907	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	NV	-30	19.000000	0.027616	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	NV	-20	10.000000	0.014535	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	NV	-10	16.000000	0.023256	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	NV	0	19.000000	0.027616	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	NV	10	4.000000	0.005814	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	NV	20	10.000000	0.014535	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	NV	30	5.000000	0.007267	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	NV	40	12.000000	0.017442	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	NV	50	2.000000	0.002907	PASS