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Test Band = NR UL CA n25A-n41A_ TM1 Test Channel = Mid Channel

Final	Final Data List										
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dolority		
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	3742.18	49.29	-110.86	-61.57	-25.00	36.57	163	359	Horizontal		
2	5096.16	50.69	-106.96	-56.27	-25.00	31.27	251	133	Horizontal		
3	5613.27	50.72	-106.14	-55.42	-25.00	30.42	142	281	Horizontal		
4	7484.36	48.22	-100.43	-52.21	-25.00	27.21	263	211	Horizontal		
5	7644.24	50.77	-99.76	-48.99	-25.00	23.99	254	256	Horizontal		
6	10192.32	43.64	-93.11	-49.47	-25.00	24.47	188	359	Horizontal		

Final	Final Data List											
NO	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dalawit.			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3742.18	48.86	-110.86	-62.00	-25.00	37.00	142	162	Vertical			
2	5096.16	49.31	-106.96	-57.65	-25.00	32.65	263	360	Vertical			
3	5613.27	50.19	-106.14	-55.95	-25.00	30.95	254	110	Vertical			
4	7484.36	48.56	-100.43	-51.87	-25.00	26.87	184	180	Vertical			
5	7644.24	49.32	-99.76	-50.44	-25.00	25.44	163	329	Vertical			
6	10192.32	43.39	-93.11	-49.72	-25.00	24.72	244	359	Vertical			



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Test Band = NR UL CA n25A-n41A_ TM1 Test Channel = High Channel

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3792.18	49.71	-110.61	-60.90	-25.00	35.90	263	154	Horizontal			
2	5190.18	50.36	-106.82	-56.46	-25.00	31.46	241	343	Horizontal			
3	5688.27	49.83	-105.81	-55.98	-25.00	30.98	175	11	Horizontal			
4	7584.36	49.43	-99.90	-50.47	-25.00	25.47	263	54	Horizontal			
5	7785.27	48.23	-98.90	-50.67	-25.00	25.67	284	360	Horizontal			
6	10380.36	42.78	-92.87	-50.09	-25.00	25.09	144	154	Horizontal			

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3792.18	49.39	-110.61	-61.22	-25.00	36.22	263	11	Vertical			
2	5190.18	49.85	-106.82	-56.97	-25.00	31.97	241	169	Vertical			
3	5688.27	49.44	-105.81	-56.37	-25.00	31.37	175	358	Vertical			
4	7584.36	49.01	-99.90	-50.89	-25.00	25.89	263	135	Vertical			
5	7785.27	49.01	-98.90	-49.89	-25.00	24.89	241	256	Vertical			
6	10380.36	43.56	-92.87	-49.31	-25.00	24.31	196	350	Vertical			

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit - Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

	Voltage												
Band	scs	Bandwidth	Modulation	Channel	RB Config	Voltag e	Temperatur e	Deviation(Hz)	Deviation (ppm)	Verdic t			
N41	30	100	DFT- PI2BPSK	М	Outer_Full	VH	NT	0.200000	0.000077	PASS			
N41	30	100	DFT- PI2BPSK	М	Outer_Full	VN	NT	-4.400000	-0.001697	PASS			
N41	30	100	DFT- PI2BPSK	М	Outer_Full	VL	NT	-0.800000	-0.000309	PASS			
N41	30	100	CP-QPSK	М	Outer_Full	VH	NT	0.200000	0.000077	PASS			
N41	30	100	CP-QPSK	М	Outer_Full	VN	NT	4.400000	0.001697	PASS			
N41	30	100	CP-QPSK	М	Outer_Full	VL	NT	-4.600000	-0.001774	PASS			



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Frequency Error VS. Temperature

					Tempera	ature				
Band	scs	Bandwidth	Modulation	Channel	RB Config	Voltag e	Temperatur e	Deviation(Hz)	Deviation (ppm)	Verdic t
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	-30	-3.200000	-0.001234	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	-20	-1.000000	-0.000386	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	-10	-3.900000	-0.001504	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	0	-2.700000	-0.001041	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	10	-3.000000	-0.001157	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	20	-2.100000	-0.000810	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	30	-2.500000	-0.000964	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	40	-1.600000	-0.000617	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	50	-1.800000	-0.000694	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	-30	2.400000	0.000926	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	-20	-5.400000	-0.002083	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	-10	-1.300000	-0.000501	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	0	-1.600000	-0.000617	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	10	-2.400000	-0.000926	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	20	-2.100000	-0.000810	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	30	1.600000	0.000617	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	40	0.300000	0.000116	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	50	-1.800000	-0.000694	PASS



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Test Result for MIMO

Frequency Error VS. Voltage

	Voltage												
Band	scs	Bandwidth	Modulation	Channel	RB Config	Voltag e	Temperatur e	Deviation (Hz)	Deviation (ppm)	Verdic t			
N41	30	100	DFT- PI2BPSK	М	Outer_Full	VH	NT	-0.200000	-0.000077	PASS			
N41	30	100	DFT- PI2BPSK	М	Outer_Full	VN	NT	2.300000	0.000887	PASS			
N41	30	100	DFT- PI2BPSK	М	Outer_Full	VL	NT	-3.200000	-0.001234	PASS			
N41	30	100	CP-QPSK	М	Outer_Full	VH	NT	-5.500000	-0.002121	PASS			
N41	30	100	CP-QPSK	М	Outer_Full	VN	NT	0.700000	0.000270	PASS			
N41	30	100	CP-QPSK	М	Outer_Full	VL	NT	-2.800000	-0.001080	PASS			

Frequency Error VS. Temperature

		y	or vo. rempe		T	.4				
					Tempera	iture				
Band	scs	Bandwidth	Modulation	Channel	RB Config	Voltag e	Temperatur e	Deviation (Hz)	Deviation (ppm)	Verdic t
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	-30	-4.300000	-0.001658	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	-20	-3.500000	-0.001350	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	-10	-2.300000	-0.000887	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	0	-3.700000	-0.001427	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	10	-4.300000	-0.001658	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	20	-2.800000	-0.001080	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	30	-12.400000	-0.004782	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	40	1.200000	0.000463	PASS
N41	30	100	DFT- PI2BPSK	М	Outer_Full	NV	50	-0.900000	-0.000347	PASS



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N41	30	100	CP-QPSK	М	Outer_Full	NV	-30	7.000000	0.002700	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	-20	-5.500000	-0.002121	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	-10	3.300000	0.001273	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	0	-1.100000	-0.000424	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	10	-1.800000	-0.000694	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	20	1.400000	0.000540	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	30	-5.100000	-0.001967	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	40	-3.600000	-0.001388	PASS
N41	30	100	CP-QPSK	М	Outer_Full	NV	50	-2.400000	-0.000926	PASS

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