Page: 1 of 29

# Appendix B

NR band N38



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Page: 2 of 29

### **CONTENT**

			Page
1	EFF	ECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA	3
2	PEA	K-TO-AVERAGE RATIO	7
	2.1	Test Results	7
	2.1	TEST PLOTS	
3		DULATION CHARACTERISTICS	
	3.1	TEST PLOTS	9
	3.1.1		
4	occ	CUPIED BANDWIDTH & 26DB EMISSION BANDWIDTH	12
	4.1	TEST RESULTS	12
	4.2	TEST PLOTS	12
5	BAN	ID EDGES COMPLIANCE	18
	5.1	TEST PLOTS	18
6	SPU	RIOUS EMISSION AT ANTENNA TERMINAL	22
	6.1	TEST PLOTS	22
7	FIEL	D STRENGTH OF SPURIOUS RADIATION	26
	7.1	TEST BAND = N38(ANT5)	26
	7.1.1	1 Test Mode = 20MHz _TM 1	26
8	FRE	QUENCY STABILITY	28
	8.1	FREQUENCY ERROR VS. VOLTAGE	28
	8.2	FREQUENCY FRROR VS. TEMPERATURE	28



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Page: 3 of 29

#### **Effective (Isotropic) Radiated Power Output Data** 1

#### ∆nt5·

Ant5:									
NR	Bandwidth	SCS	Modulation	Channel	RB Config	Conducted Power(dBm)	EIRP	Limit	Verdict
Band						1 ower(abili)	(dBm)	(dBm)	
N38	20MHz	30KHz	TM1	516000	Inner Full	24.35	23.15	33	PASS
N38	20MHz	30KHz	TM1	516000	Inner 1RB Left	24.47	23.27	33	PASS
N38	20MHz	30KHz	TM1	516000	Inner 1RB Right	24.28	23.08	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner Full	22.89	21.69	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner 1RB Left	22.65	21.45	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner 1RB Right	22.56	21.36	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner Full	24.04	22.84	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner 1RB Left	24.29	23.09	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner 1RB Right	24.09	22.89	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner Full	24.27	23.07	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner 1RB Left	24.47	23.27	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner 1RB Right	24.24	23.04	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner Full	22.85	21.65	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner 1RB Left	22.86	21.66	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner 1RB Right	22.52	21.32	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner Full	23.96	22.76	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner 1RB Left	24.17	22.97	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner 1RB Right	24.02	22.82	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner Full	23.37	22.17	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Left	23.57	22.37	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Right	23.38	22.18	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner Full	22.34	21.14	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner 1RB Left	22.62	21.42	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner 1RB Right	22.41	21.21	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner Full	22.62	21.42	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner 1RB Left	23.32	22.12	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner 1RB Right	23.03	21.83	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner Full	21.78	20.58	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner 1RB Left	21.91	20.71	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner 1RB Right	21.51	20.31	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner Full	20.90	19.70	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner 1RB Left	20.86	19.66	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner 1RB Right	20.73	19.53	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner Full	21.11	19.91	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner 1RB Left	21.89	20.69	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner 1RB Right	21.59	20.39	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner Full	21.83	20.63	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner 1RB Left	22.17	20.97	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner 1RB Right	21.60	20.40	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner Full	20.86	19.66	33	PASS



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Report No.: AR/2020/C000207-01

Page: 4 of 29

					Г	aye. 4	01 29		
N38	20MHz	30KHz	TM5	519000	Inner 1RB Left	21.21	20.01	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner 1RB Right	20.76	19.56	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner Full	21.34	20.14	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner 1RB Left	21.51	20.31	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner 1RB Right	21.45	20.25	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner Full	24.34	23.14	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner 1RB Left	24.54	23.34	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner 1RB Right	24.31	23.11	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner Full	22.81	21.61	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner 1RB Left	22.89	21.69	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner 1RB Right	23.10	21.90	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner Full	23.99	22.79	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner 1RB Left	24.32	23.12	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner 1RB Right	24.00	22.80	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner Full	23.32	22.12	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner 1RB Left	23.19	21.99	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner 1RB Right	23.19	21.99	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner Full	22.34	21.14	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner 1RB Left	22.24	21.04	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner 1RB Right	22.32	21.12	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner Full	22.81	21.61	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner 1RB Left	23.27	22.07	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner 1RB Right	23.09	21.89	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner Full	21.84	20.64	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner 1RB Left	22.01	20.81	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner 1RB Right	21.63	20.43	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner Full	20.81	19.61	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner 1RB Left	21.06	19.86	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner 1RB Right	20.85	19.65	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner Full	20.94	19.74	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner 1RB Left	21.72	20.52	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner 1RB Right	21.61	20.41	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner Full	21.85	20.65	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner 1RB Left	22.15	20.95	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner 1RB Right	21.72	20.52	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner Full	20.93	19.73	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner 1RB Left	20.80	19.60	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner 1RB Right	20.67	19.47	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner Full	21.72	20.52	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner 1RB Left	21.52	20.32	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner 1RB Right	21.49	20.29	33	PASS



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Page: 5 of 29

#### Ant1:

Ant	1.								
NR	Bandwidth	SCS	Modulation	Channel	RB Config	Conducted	EIRP	Limit	Verdict
Band					ŭ	Power(dBm)	(dBm)	(dBm)	
N38	20MHz	30KHz	TM1	516000	Inner Full	22.83	20.83	33	PASS
N38	20MHz	30KHz	TM1	516000	Inner 1RB Left	22.78	20.78	33	PASS
N38	20MHz	30KHz	TM1	516000	Inner 1RB Right	22.75	20.75	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner Full	22.62	20.62	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner 1RB Left	22.76	20.76	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner 1RB Right	22.48	20.48	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner Full	23.90	21.90	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner 1RB Left	24.12	22.12	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner 1RB Right	23.95	21.95	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner Full	22.87	20.87	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner 1RB Left	22.72	20.72	33	PASS
N38	20MHz	30KHz	TM2 TM2	516000	Inner 1RB Right	22.98	20.98	33	PASS
N38	20MHz	30KHz 30KHz	TM2	519000	Inner Full	22.54	20.54	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner 1RB Left	22.69	20.69	33 33	PASS
N38	20MHz	30KHz	TM2	519000	Inner 1RB Right	22.38	20.38	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner Full	23.94	21.94	33	PASS
N38 N38	20MHz 20MHz	30KHz	TM2	522000 522000	Inner 1RB Left	24.03 24.01	22.03 22.01	33	PASS PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Right Inner Full	22.26	20.26	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Left	22.20	20.20	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Right	22.29	20.29	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner Full	22.17	20.23	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner 1RB Left	22.17	20.17	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner 1RB Right	22.08	20.08	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner Full	22.87	20.87	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner 1RB Left	23.12	21.12	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner 1RB Right	22.93	20.93	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner Full	20.79	18.79	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner 1RB Left	20.82	18.82	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner 1RB Right	21.17	19.17	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner Full	20.78	18.78	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner 1RB Left	21.12	19.12	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner 1RB Right	20.46	18.46	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner Full	21.33	19.33	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner 1RB Left	22.01	20.01	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner 1RB Right	21.46	19.46	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner Full	20.80	18.80	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner 1RB Left	20.92	18.92	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner 1RB Right	20.31	18.31	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner Full	20.84	18.84	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner 1RB Left	20.96	18.96	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner 1RB Right	20.52	18.52	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner Full	21.80	19.80	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner 1RB Left	21.48	19.48	33	PASS



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Page: 6 of 29

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N38	20MHz	30KHz	TM5	522000	Inner 1RB Right	21.51	19.51	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner Full	22.88	20.88	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner 1RB Left	23.02	21.02	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner 1RB Right	23.14	21.14	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner Full	22.57	20.57	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner 1RB Left	22.91	20.91	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner 1RB Right	22.59	20.59	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner Full	23.99	21.99	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner 1RB Left	24.11	22.11	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner 1RB Right	23.99	21.99	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner Full	22.40	20.40	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner 1RB Left	22.22	20.22	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner 1RB Right	22.50	20.50	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner Full	22.19	20.19	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner 1RB Left	22.20	20.20	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner 1RB Right	22.17	20.17	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner Full	23.01	21.01	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner 1RB Left	23.14	21.14	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner 1RB Right	23.05	21.05	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner Full	20.92	18.92	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner 1RB Left	21.08	19.08	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner 1RB Right	21.20	19.20	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner Full	20.77	18.77	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner 1RB Left	21.03	19.03	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner 1RB Right	20.85	18.85	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner Full	21.49	19.49	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner 1RB Left	21.64	19.64	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner 1RB Right	21.41	19.41	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner Full	20.90	18.90	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner 1RB Left	20.54	18.54	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner 1RB Right	20.75	18.75	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner Full	20.83	18.83	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner 1RB Left	20.13	18.13	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner 1RB Right	20.75	18.75	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner Full	21.55	19.55	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner 1RB Left	21.23	19.23	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner 1RB Right	21.44	19.44	33	PASS

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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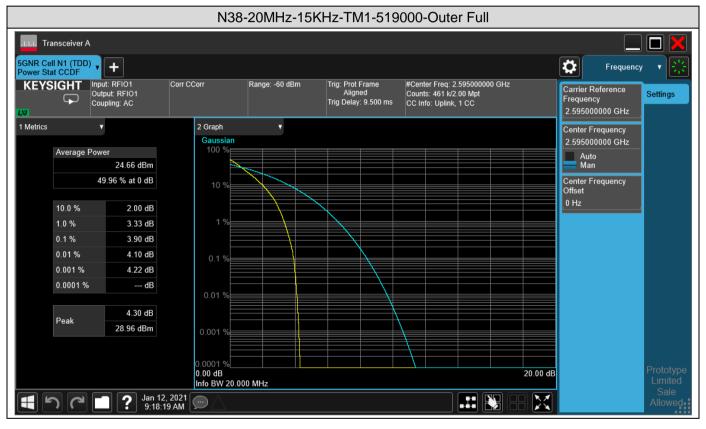
Page: 7 of 29

#### 2 **Peak-to-Average Ratio**

#### 2.1 Test Results

NR Band	Bandwidth	SCS	Modulation	Channel	RB Config	Result (dB)	Limit (dBm)	Verdict
N38	20MHz	30KHz	TM1	519000	Outer Full	3.90	13	PASS
N38	20MHz	30KHz	TM6	519000	Outer Full	7.19	13	PASS

#### 2.2 Test Plots



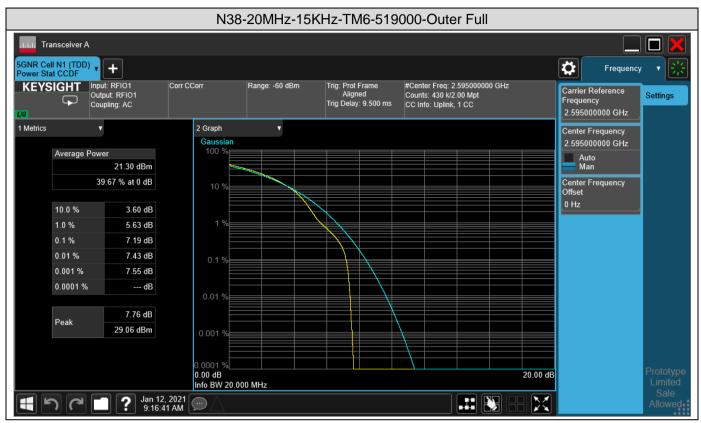


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8 of 29 Page:



#### **REMARK:**

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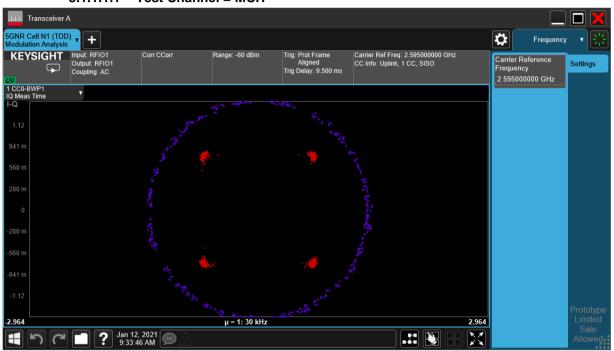
#### **Modulation Characteristics** 3

#### 3.1 Test Plots

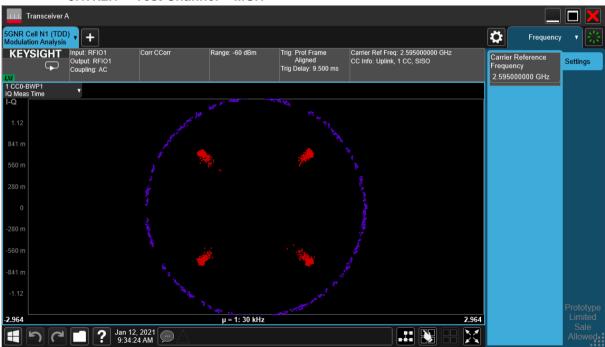
3.1.1 Test Band = N38

Test Mode = TM1 20MHz

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = TM2 20MHz 3.1.1.2.1 Test Channel = MCH





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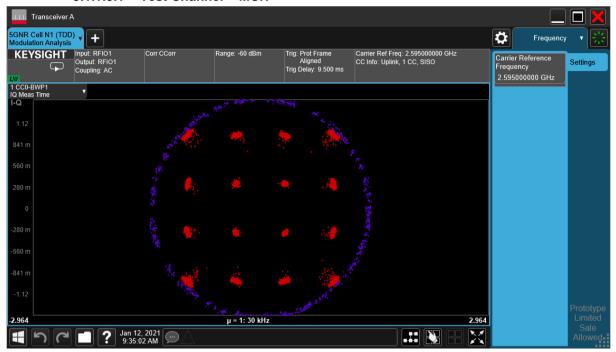
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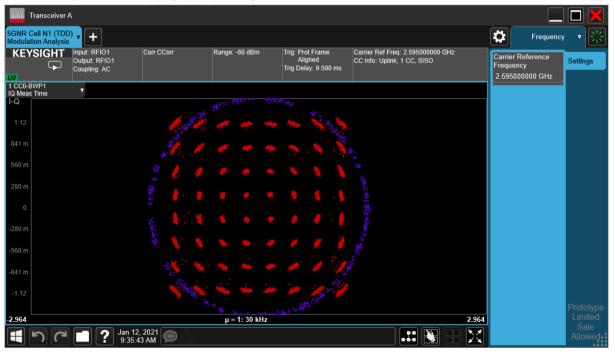
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Page: 10 of 29

#### Test Mode = TM3 20MHz 3.1.1.3 3.1.1.3.1 Test Channel = MCH



3.1.1.4 Test Mode = TM4 20MHz Test Channel = MCH 3.1.1.4.1





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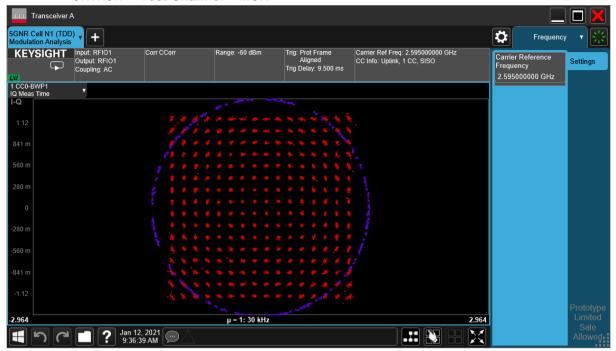
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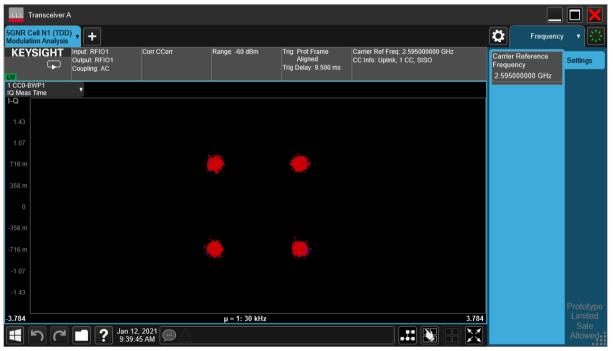
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11 of 29 Page:

#### 3.1.1.5 Test Mode = TM5 20MHz 3.1.1.5.1 Test Channel = MCH



Test Mode = TM6 20MHz 3.1.1.6 Test Channel = MCH 3.1.1.6.1



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Page: 12 of 29

## Occupied Bandwidth & 26dB Emission Bandwidth

#### **Test Results**

NR Band	Bandwidth	scs	Modulation	Channel	RB Config	OBW (MHz)	EBW (MHz)	Verdict
N38	20MHz	30KHz	TM1	519000	Outer Full	17.81	27.69	PASS
N38	20MHz	30KHz	TM2	519000	Outer Full	17.85	19.03	PASS
N38	20MHz	30KHz	TM3	519000	Outer Full	17.79	18.90	PASS
N38	20MHz	30KHz	TM4	519000	Outer Full	17.83	19.04	PASS
N38	20MHz	30KHz	TM5	519000	Outer Full	17.79	19.72	PASS
N38	20MHz	30KHz	TM6	519000	Outer Full	18.21	19.60	PASS
N38	20MHz	30KHz	TM7	519000	Outer Full	18.23	19.33	PASS
N38	20MHz	30KHz	TM8	519000	Outer Full	18.20	19.36	PASS
N38	20MHz	30KHz	TM9	519000	Outer Full	18.24	19.54	PASS

### 4.2 Test Plots



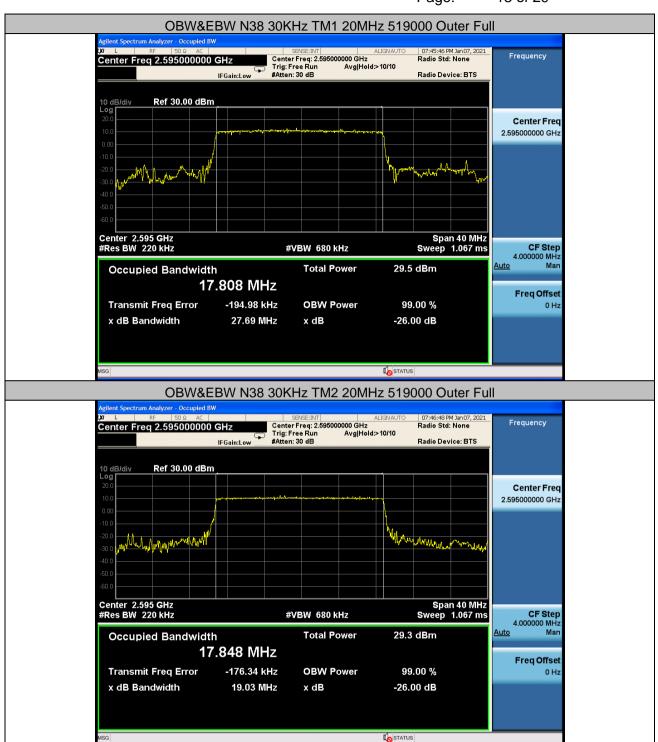
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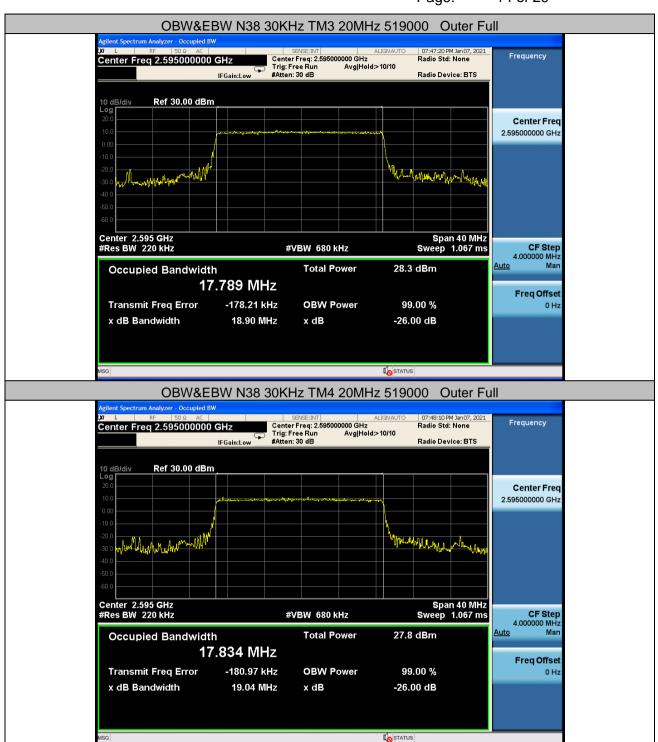
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Page: 14 of 29





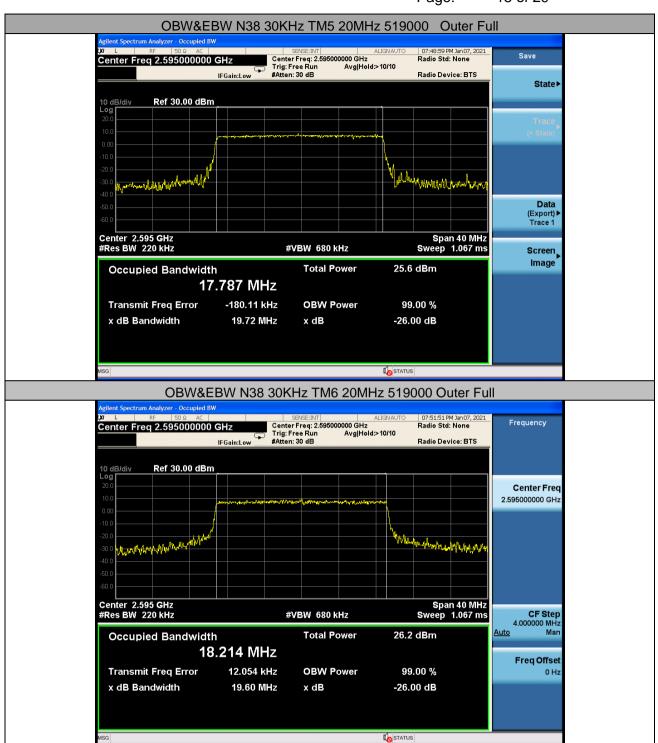
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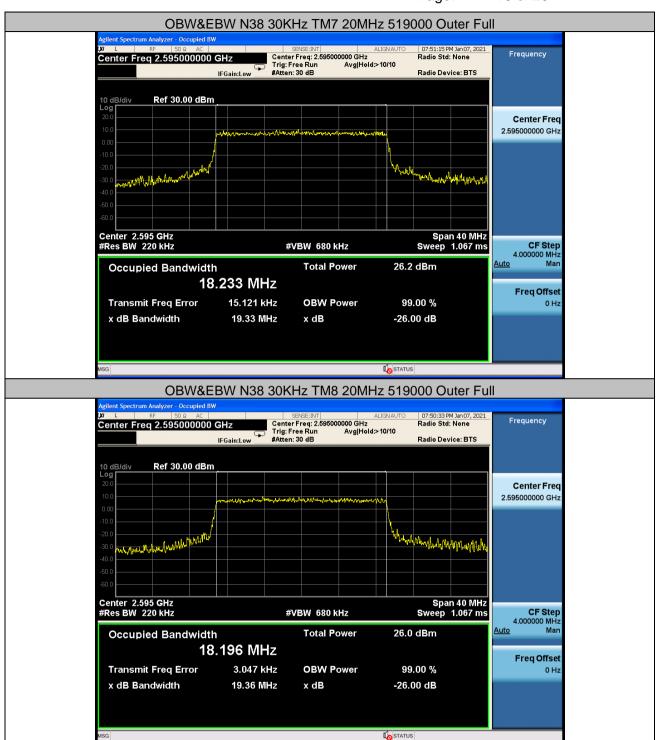
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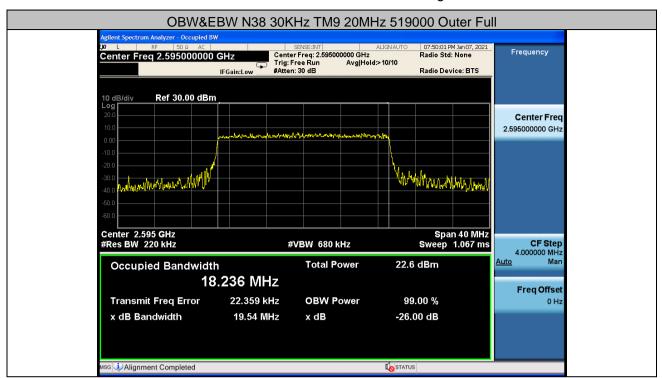
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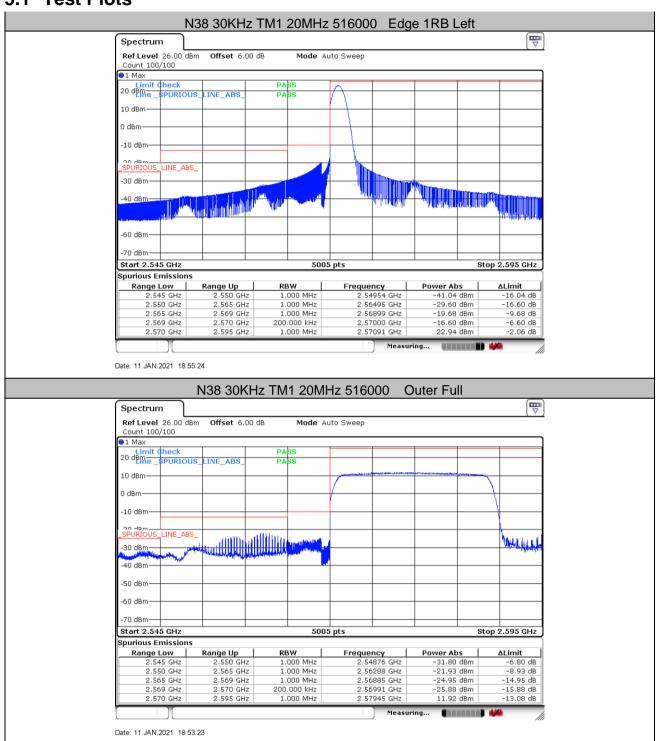
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## **Band Edges Compliance**

#### 5.1 Test Plots





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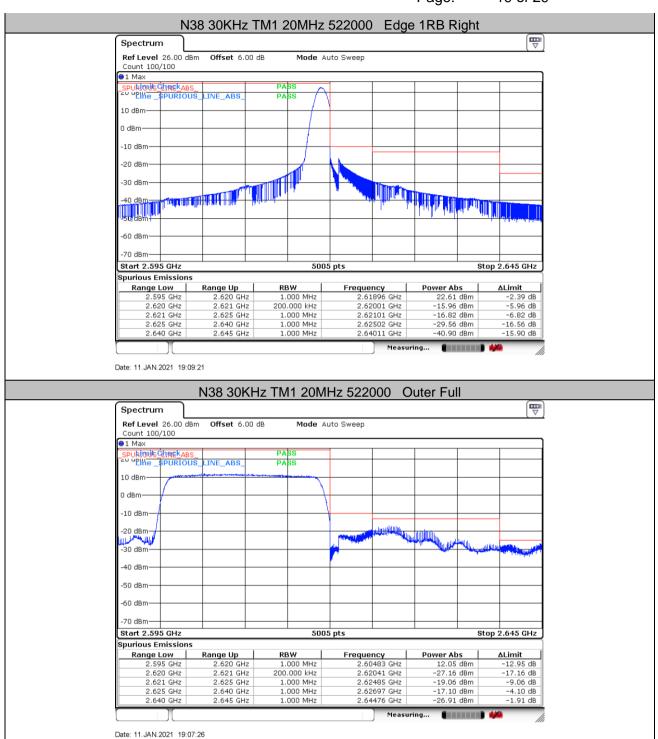
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19 of 29 Page:





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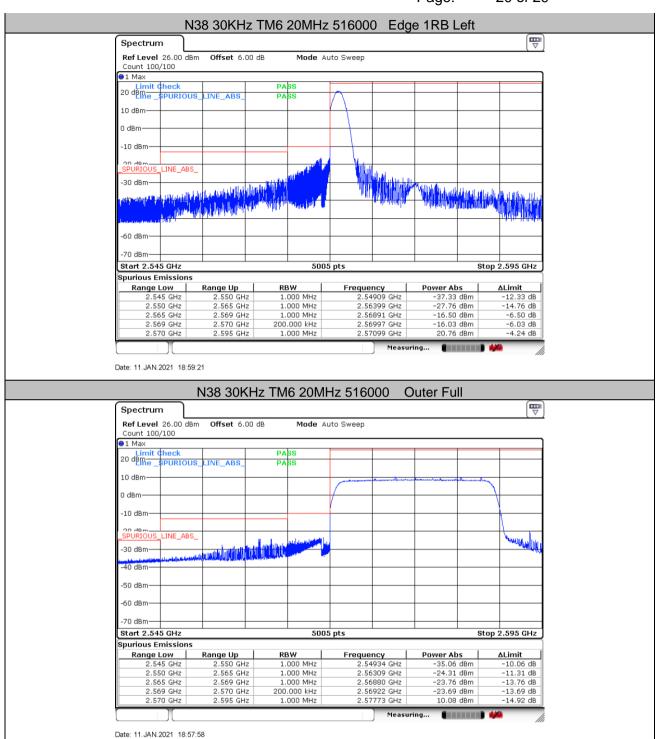
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20 of 29 Page:





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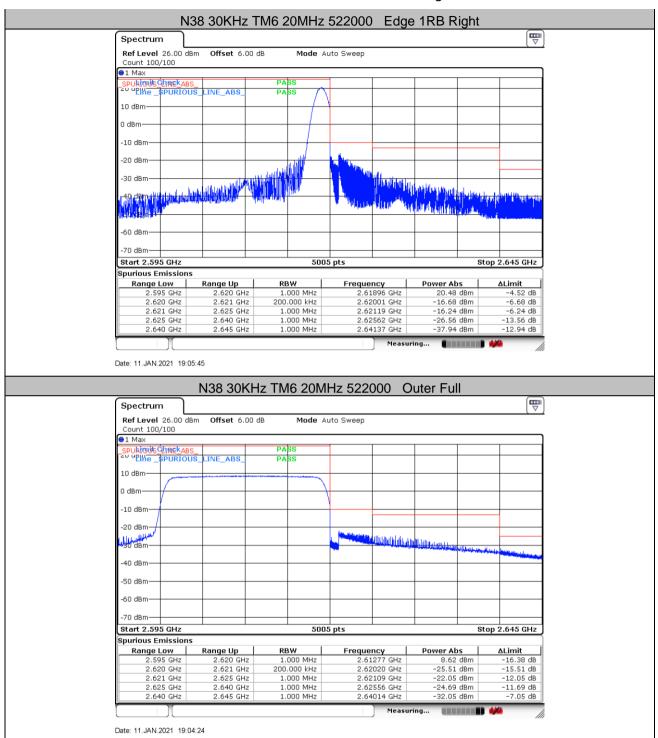
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21 of 29 Page:



#### **REMARK:**

All antenna and all modulation had been tested, but only the worst case data displayed in this report



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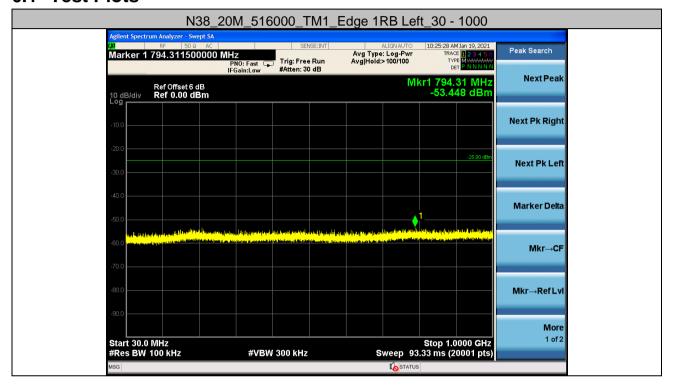
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Page: 22 of 29

## 6 Spurious Emission at Antenna Terminal

REMARK: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrow Band signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k\* (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

#### 6.1 Test Plots







Report No.: AR/2020/C000207-01

Page: 23 of 29





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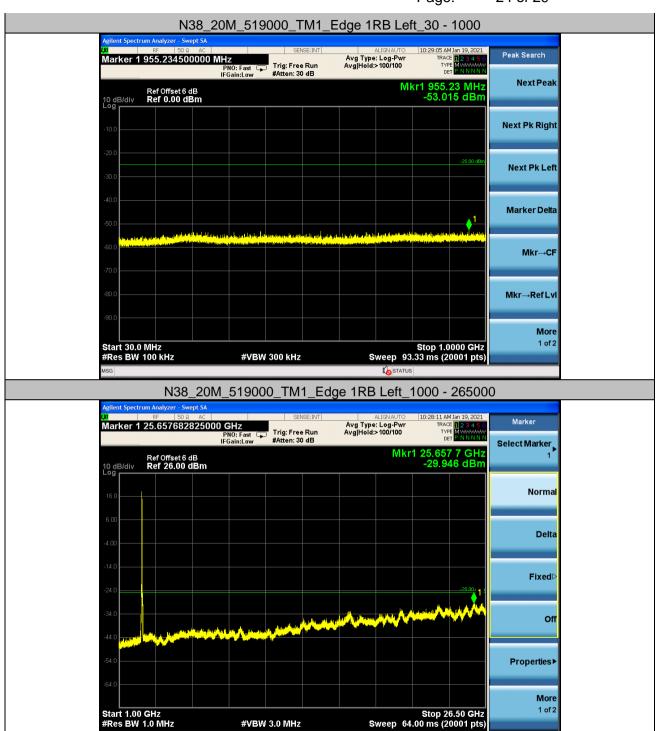
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24 of 29 Page:





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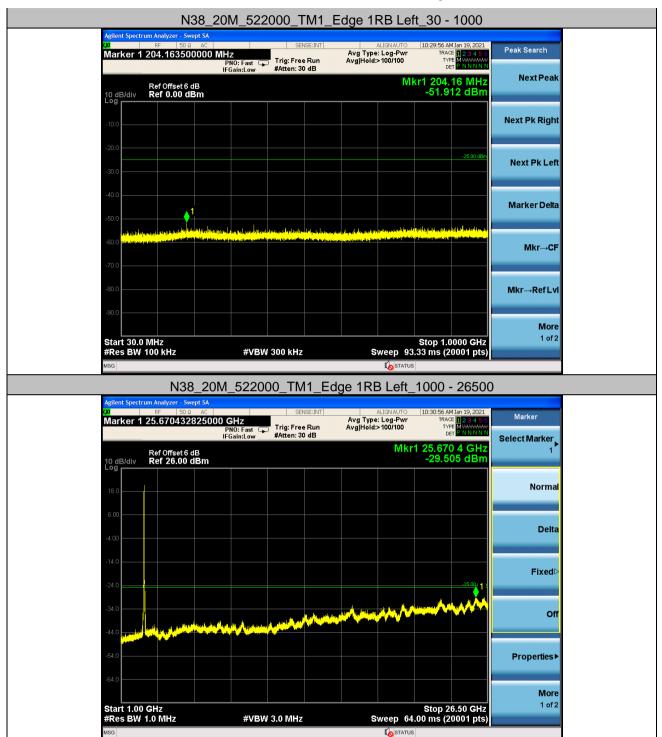
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Page: 26 of 29

## **Field Strength of Spurious Radiation**

### **7.1 Test Band = N38(ant5)**

7.1.1 Test Mode = 20MHz TM 1

#### 7.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
40.6700	-72.89	-25.00	47.89	Vertical
87.2300	-68.31	-25.00	43.31	Vertical
574.4125	-80.86	-25.00	55.86	Vertical
1421.3211	-55.07	-25.00	30.07	Vertical
6770.4385	-52.64	-25.00	27.64	Vertical
17758.4879	-39.69	-25.00	14.69	Vertical
37.7600	-74.10	-25.00	49.10	Horizontal
204.6000	-75.75	-25.00	50.75	Horizontal
571.7450	-80.54	-25.00	55.54	Horizontal
1799.2400	-44.34	-25.00	19.34	Horizontal
5736.1368	-52.78	-25.00	27.78	Horizontal
17406.7203	-40.52	-25.00	15.52	Horizontal

#### 7.1.1.2 Test Channel = MCH

1.1.1.2	or Orialifici - MO	1 1		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
39.9425	-72.14	-25.00	47.14	Vertical
85.5325	-68.48	-25.00	43.48	Vertical
484.2025	-81.81	-25.00	56.81	Vertical
1924.9462	-51.36	-25.00	26.36	Vertical
6765.9383	-52.46	-25.00	27.46	Vertical
17842.4921	-40.27	-25.00	15.27	Vertical
40.4275	-75.08	-25.00	50.08	Horizontal
204.8425	-75.37	-25.00	50.37	Horizontal
735.9175	-78.50	-25.00	53.50	Horizontal
1800.5400	-44.52	-25.00	19.52	Horizontal
5739.8870	-53.34	-25.00	28.34	Horizontal
17397.7199	-40.65	-25.00	15.65	Horizontal



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#### 7.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
37.7600	-73.79	-25.00	48.79	Vertical
84.3200	-69.40	-25.00	44.40	Vertical
499.4800	-81.12	-25.00	56.12	Vertical
1921.7461	-48.83	-25.00	23.83	Vertical
6843.9422	-52.43	-25.00	27.43	Vertical
17856.7428	-40.20	-25.00	15.20	Vertical
40.4275	-75.32	-25.00	50.32	Horizontal
204.8425	-75.40	-25.00	50.40	Horizontal
732.5225	-78.20	-25.00	53.20	Horizontal
1801.0401	-44.50	-25.00	19.50	Horizontal
5701.6351	-53.29	-25.00	28.29	Horizontal
17384.9692	-40.69	-25.00	15.69	Horizontal

#### Remark:

- According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- The disturbance below 30MHz was very low, and the above harmonics were the highest point could be 2 found when testing, so only the worst case data displayed in this report.
- 3 All modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.
- The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.



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## 8 Frequency Stability

## 8.1 Frequency Error VS. Voltage

NR Band	SCS	Bandwidt h	Modulation	Channe I	RB Config	Voltage [Vdc]	Temper ature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N38	30KHz	20MHz	TM1	516000	Outer Full	VL	NT	-12.56	-0.00487	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	NT	-10.23	-0.00397	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VH	NT	11.30	0.00438	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VL	NT	-17.54	-0.00676	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	NT	-9.65	-0.00372	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VH	NT	-11.56	-0.00445	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VL	NT	-13.10	-0.00502	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	NT	9.64	0.00369	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VH	NT	11.68	0.00448	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VL	NT	-8.55	-0.00331	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	NT	-15.56	-0.00603	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VH	NT	-11.84	-0.00459	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VL	NT	-10.68	-0.00412	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	NT	9.79	0.00377	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VH	NT	-17.42	-0.00671	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VL	NT	11.41	0.00437	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	NT	-10.66	-0.00408	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VH	NT	9.38	0.00359	±2.5	PASS

## 8.2 Frequency Error VS. Temperature

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NR Band	SCS	Bandwidt h	Modulation	Channe I	RB Config	Voltage [Vdc]	Temper ature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	-30	-8.40	-0.00326	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	-20	15.64	0.00606	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	-10	20.53	0.00796	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	0	-11.66	-0.00452	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	10	12.83	0.00497	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	20	12.47	0.00483	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	30	6.45	0.00250	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	40	-14.08	-0.00546	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	50	11.76	0.00456	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	-30	-13.65	-0.00526	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	-20	-11.90	-0.00459	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	-10	-18.09	-0.00697	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	0	-12.67	-0.00488	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	10	-20.41	-0.00787	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	20	-12.94	-0.00499	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	30	-10.24	-0.00395	±2.5	PASS



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Report No.: AR/2020/C000207-01

Page: 29 of 29

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N38	30KHz	20MHz	TM1	519000	Outer Full	VN	40	-13.33	-0.00514	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	50	15.46	0.00596	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	-30	13.63	0.00522	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	-20	-15.55	-0.00596	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	-10	-8.52	-0.00326	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	0	9.16	0.00351	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	10	-13.21	-0.00506	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	20	13.33	0.00511	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	30	-11.44	-0.00438	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	40	-17.17	-0.00658	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	50	12.08	0.00463	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	-30	-10.22	-0.00396	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	-20	-11.61	-0.00450	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	-10	13.65	0.00529	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	0	-9.61	-0.00372	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	10	-11.58	-0.00449	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	20	12.59	0.00488	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	30	-14.35	-0.00556	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	40	-12.11	-0.00469	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	50	-11.54	-0.00447	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	-30	-9.56	-0.00368	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	-20	-14.65	-0.00565	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	-10	-10.23	-0.00394	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	0	-14.68	-0.00566	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	10	10.28	0.00396	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	20	-11.55	-0.00445	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	30	-13.66	-0.00526	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	40	-18.20	-0.00701	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	50	-19.63	-0.00756	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	-30	13.86	0.00531	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	-20	17.44	0.00668	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	-10	18.46	0.00707	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	0	-13.09	-0.00502	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	10	18.23	0.00698	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	20	-19.54	-0.00749	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	30	12.17	0.00466	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	40	14.08	0.00539	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	50	-11.66	-0.00447	±2.5	PASS

#### **REMARK:**

All antenna and all modulation had been tested, but only the worst case data displayed in this report

#### The End



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of email: CN. Doctneck@sgs.com Mo. Workshop, M-10, Middle Sedion, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国・深圳・科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com