

Report No.: SUHR/2022/1001106

Rev.: 01

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TEST REPORT

Application No.: HR/2022/10011
Applicant: HONOR Device Co., Ltd.
Address of Applicant: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer: HONOR Device Co., Ltd.
Address of Manufacturer: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
EUT Description: Smart Phone
Model No.: ANY-NX1
Trade Mark: HONOR
FCC ID: 2AYGCANY-NX1
Standards: 47 CFR Part 2
47 CFR Part 27 subpart M
Date of Receipt: 2022/2/10
Date of Test: 2022/2/25 to 2022/3/18
Date of Issue: 2022/3/21

Test Result:	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Panta Sun
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/3/21		Original

Prepared By	Weller Liu (Weller Liu) / Test Supervisor
Checked By	Well Wei (Well Wei) / Reviewer



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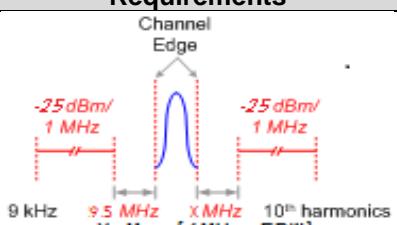
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2 Test Summary

2.1 NR Band n7/NR Band n38/NR Band n41

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Field Strength of Spurious Radiation	§2.1053, §27.53(m)		Section 1 of Appendix B	Pass



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3 General Information

3.1 Client Information

Applicant:	HONOR Device Co., Ltd.
Address of Applicant:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer:	HONOR Device Co., Ltd.
Address of Manufacturer:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Smart Phone			
Model No.:	ANY-NX1			
Trade Mark:	HONOR			
Hardware Version:	HN3ANYM			
Software Version:	4.2.0.42(C900E42R1P3)			
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module			
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated			
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client			
	n7:	2.3dBi (Ant4);	-0.3dBi (Ant0);	
	n38:	0.7dBi (Ant4);	0.1dBi (Ant0);	
		0.7dBi (Ant7);	0.1dBi (Ant3);	
	n41:	2.3dBi (Ant4);	0.1dBi (Ant0);	
		2.3dBi (Ant7);	0.1dBi (Ant3);	
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.				
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.				



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3.5 Test Mode

Test Mode	Test Modes Description
NR/TM1	NR system, DFT-s-Pi/2-BPSK modulation
NR/TM2	NR system, DFT-s-QPSK modulation
NR/TM3	NR system, DFT-s-16QAM modulation
NR/TM4	NR system, DFT-s-64QAM modulation
NR/TM5	NR system, DFT-s-256QAM modulation
NR/TM6	NR system, CP-QPSK modulation
NR/TM7	NR system, CP-16QAM modulation
NR/TM8	NR system, CP-64QAM modulation
NR/TM9	NR system, CP-256QAM modulation

Remark: The test mode(s) are selected according to relevant radio technology specifications.

3.6 Test Environment

Environment Parameter	101.0 KPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.87

Remark:
 NV: Normal Voltage
 NT: Normal Temperature



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3.7 Technical Specification

Characteristics	Description				
Radio System Type	<input checked="" type="checkbox"/> SA <input checked="" type="checkbox"/> NSA				
Supported Frequency Range	Band	TX	RX		
	NR Band n7	2500 to 2570 MHz	2620 to 2690 MHz		
	NR Band n38	2570 to 2620 MHz	2570 to 2620 MHz		
	NR Band n41	2496 to 2690 MHz	2496 to 2690 MHz		
Supported Channel Bandwidth	NR Band n7	SCS 15kHz:			
		<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz	<input checked="" type="checkbox"/> 15 MHz	<input checked="" type="checkbox"/> 20 MHz
	NR Band n38	SCS 30kHz:			
		<input checked="" type="checkbox"/> 20 MHz			
	NR Band n41	SCS 30kHz:			
		<input checked="" type="checkbox"/> 20 MHz	<input checked="" type="checkbox"/> 30 MHz	<input checked="" type="checkbox"/> 40 MHz	<input checked="" type="checkbox"/> 50 MHz
		<input checked="" type="checkbox"/> 60 MHz	<input checked="" type="checkbox"/> 80 MHz	<input checked="" type="checkbox"/> 90 MHz	<input checked="" type="checkbox"/> 100 MHz

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3.8 Test Frequencies

3.8.1 Reference test frequencies for NR operating band n7

3.8.1.1 Test frequencies for NR operating band n7 and SCS 15 kHz

Bandwidth [MHz]	Range	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
5	Downlink	Low	2622.5	524500
		Mid	2655	531000
		High	2687.5	537500
	Uplink	Low	2502.5	500500
		Mid	2535	507000
		High	2567.5	513500
10	Downlink	Low	2625	525000
		Mid	2655	531000
		High	2685	537000
	Uplink	Low	2505	501000
		Mid	2535	507000
		High	2565	513000
15	Downlink	Low	2627.5	525500
		Mid	2655	531000
		High	2682.5	536500
	Uplink	Low	2507.5	501500
		Mid	2535	507000
		High	2562.5	512500
20	Downlink	Low	2630	526000
		Mid	2655	531000
		High	2680	536000
	Uplink	Low	2510	502000
		Mid	2535	507000
		High	2560	512000

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3.8.2 Reference test frequencies for NR operating band n38**3.8.2.1 Test frequencies for NR operating band n38 and SCS 30 kHz**

Bandwidth [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
20	Downlink & Uplink	Low	2580	516000	30
		Mid	2595	519000	
		High	2610	522000	



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3.8.3 Reference test frequencies for NR operating band n41

3.8.3.1 Test frequencies for NR operating band n41 and SCS 30 kHz

CBW [MHz]	Range	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
20	Downlink & Uplink	Low	2506.02	30
		Mid	2592.99	
		High	2670	
30	Downlink & Uplink	Low	2511	30
		Mid	2592.99	
		High	2675	
40	Downlink & Uplink	Low	2516.01	30
		Mid	2592.99	
		High	2670	
50	Downlink & Uplink	Low	2521.02	30
		Mid	2592.99	
		High	2664.99	
60	Downlink & Uplink	Low	2526	30
		Mid	2592.99	
		High	2659.98	
80	Downlink & Uplink	Low	2536.02	30
		Mid	2592.99	
		High	2649.99	
90	Downlink & Uplink	Low	2541	30
		Mid	2592.99	
		High	2644.98	
100	Downlink & Uplink	Low	2546.01	30
		Mid	2592.99	
		High	2640	

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4 Description of Tests

4.1 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

$E (\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level } (\mu\text{V}/\text{m}) + (\text{Cable Loss } (\text{dB}) + \text{Antenna Factor } (\text{dB}/\text{m}) - \text{AMP}(\text{dB}))$

$EIRP (\text{dBm}) = E (\text{dB}\mu\text{V}/\text{m}) + 20 \log D - 104.8$; where D is the measurement distance in meters

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:
 $E (\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level } (\text{dB}\mu\text{V}) + (\text{Cable Loss } (\text{dB}) + \text{Antenna Factor } (\text{dB}/\text{m}) - \text{AMP}(\text{dB}))$
 $EIRP (\text{dBm}) = E (\text{dB}\mu\text{V}/\text{m}) + 20 \log D - 104.8$; where D is the measurement distance in meters
- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 1

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance.

Remark: Reference test setup 1

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

Final Test Level =Receiver Reading + Factor(Antenna Factor + Cable Factor – Preamplifier Factor)

- 2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

- 3) All modes have been tested, but only the worst case data displayed in this report.

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4.2 Test Setups

4.2.1 Test Setup 1

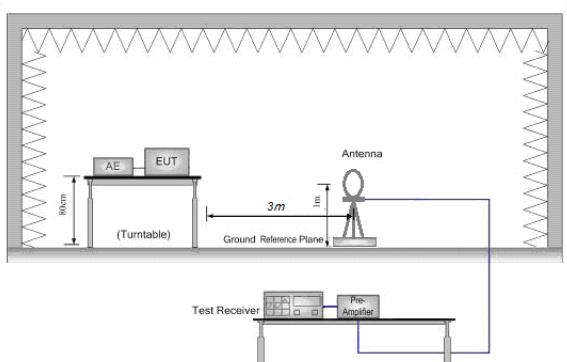


Figure 1. Below 30MHz

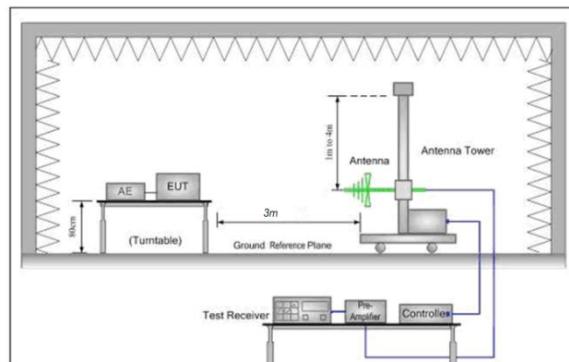


Figure 2. 30MHz to 1GHz

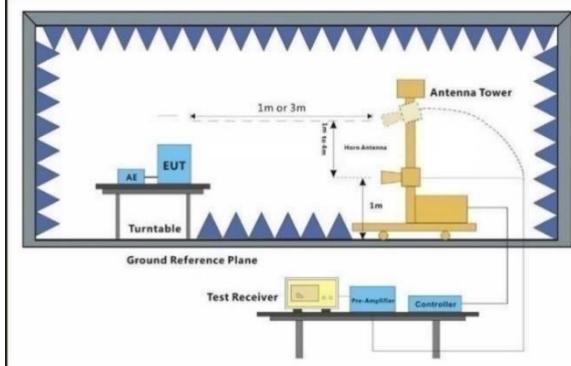


Figure 3. above 1GHz

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4.3 Test Conditions

Test Case	Test Conditions	
Field Strength of Spurious Radiation	Test Environment	Ambient Climate & Rated Voltage
	Test Setup	Test Setup 1
	Test Mode	NR/TM1 Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.
	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)

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5 Main Test Instruments

RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-01	2021/9/28	2022/9/27
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18

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6 Measurement Uncertainty

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

No.	Item	Measurement Uncertainty
1	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)



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7 Photographs - Setup Photos

Refer to Appendix A.1 15B Setup Photos



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Appendix B



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Test Band = _5G NR SA Band 41 ANT4 TM1**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5002.2000	48.69	-108.01	-59.32	-25.00	34.32	145	312	Horizontal	
2	7491.75	51.74	-101.98	-50.24	-25.00	25.24	169	154	Horizontal	
3	10004.4000	41.62	-96.00	-54.38	-25.00	29.38	182	359	Horizontal	
4	12505.5000	37.81	-93.07	-55.26	-25.00	30.26	172	55	Horizontal	
5	15006.6000	34.66	-90.70	-56.04	-25.00	31.04	233	170	Horizontal	
6	17507.7000	37.96	-90.99	-53.03	-25.00	28.03	144	226	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4994.25	56.12	-108.03	-51.91	-25.00	26.91	105	128	Vertical	
2	7503.3000	46.93	-101.95	-55.02	-25.00	30.02	148	355	Vertical	
3	10004.4000	41.92	-96.00	-54.08	-25.00	29.08	196	158	Vertical	
4	12505.5000	37.40	-93.07	-55.67	-25.00	30.67	238	359	Vertical	
5	15006.6000	35.66	-90.70	-55.04	-25.00	30.04	104	212	Vertical	
6	17507.7000	38.74	-90.99	-52.25	-25.00	27.25	288	256	Vertical	

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Test Band = _5G NR SA Band 41 ANT4 TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5096.1600	49.49	-107.71	-58.22	-25.00	33.22	145	283	Horizontal
2	7632	53.22	-101.80	-48.58	-25.00	23.58	196	255	Horizontal
3	10192.3200	40.10	-95.93	-55.83	-25.00	30.83	284	144	Horizontal
4	12740.4000	37.34	-92.47	-55.13	-25.00	30.13	172	57	Horizontal
5	15288.4800	35.12	-90.78	-55.66	-25.00	30.66	233	359	Horizontal
6	17836.5600	39.69	-88.76	-49.07	-25.00	24.07	201	233	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5088	55.02	-107.73	-52.71	-25.00	27.71	255	350	Vertical
2	7644.2400	46.98	-101.80	-54.82	-25.00	29.82	149	98	Vertical
3	10192.3200	39.84	-95.93	-56.09	-25.00	31.09	179	360	Vertical
4	12740.4000	37.97	-92.47	-54.50	-25.00	29.50	280	360	Vertical
5	15288.4800	34.92	-90.78	-55.86	-25.00	30.86	233	171	Vertical
6	17836.5600	38.84	-88.76	-49.92	-25.00	24.92	160	240	Vertical

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Test Band = _5G NR SA Band 41 ANT4 TM1**Test Channel = High**

Final Data List									
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4084.5	52.25	-110.14	-57.89	-25.00	32.89	128	145	Horizontal
2	5190.1800	48.21	-107.56	-59.35	-25.00	34.35	196	359	Horizontal
3	7785.2700	46.14	-100.93	-54.79	-25.00	29.79	172	171	Horizontal
4	10380.3600	40.91	-95.43	-54.52	-25.00	29.52	230	86	Horizontal
5	12975.4500	38.08	-92.73	-54.65	-25.00	29.65	102	185	Horizontal
6	15570.5400	35.70	-91.86	-56.16	-25.00	31.16	154	171	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3522.75	54.08	-111.95	-57.87	-25.00	32.87	155	126	Vertical
2	5190.1800	48.04	-107.56	-59.52	-25.00	34.52	236	148	Vertical
3	7785.2700	46.61	-100.93	-54.32	-25.00	29.32	194	3	Vertical
4	10380.3600	40.56	-95.43	-54.87	-25.00	29.87	172	355	Vertical
5	12975.4500	37.71	-92.73	-55.02	-25.00	30.02	200	154	Vertical
6	15570.5400	33.82	-91.86	-58.04	-25.00	33.04	149	355	Vertical



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Test Band = _5G NR SA Band 41 ANT0 TM1**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5002.2000	48.33	-108.01	-59.68	-25.00	34.68	222	269	Horizontal	
2	7503.3000	46.65	-101.95	-55.30	-25.00	30.30	233	127	Horizontal	
3	10004.4000	40.33	-96.00	-55.67	-25.00	30.67	102	310	Horizontal	
4	12505.5000	36.88	-93.07	-56.19	-25.00	31.19	255	283	Horizontal	
5	15006.6000	35.26	-90.70	-55.44	-25.00	30.44	159	269	Horizontal	
6	17507.7000	37.30	-90.99	-53.69	-25.00	28.69	146	98	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5002.2000	49.09	-108.01	-58.92	-25.00	33.92	241	3	Vertical	
2	7503.3000	46.15	-101.95	-55.80	-25.00	30.80	189	294	Vertical	
3	10004.4000	40.98	-96.00	-55.02	-25.00	30.02	176	26	Vertical	
4	12505.5000	36.05	-93.07	-57.02	-25.00	32.02	143	111	Vertical	
5	15006.6000	34.45	-90.70	-56.25	-25.00	31.25	233	82	Vertical	
6	17507.7000	37.41	-90.99	-53.58	-25.00	28.58	158	336	Vertical	

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Test Band = _5G NR SA Band 41 ANT0 TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5096.1600	50.00	-107.71	-57.71	-25.00	32.71	269	47	Horizontal
2	7644.2400	47.06	-101.80	-54.74	-25.00	29.74	148	331	Horizontal
3	10192.3200	40.98	-95.93	-54.95	-25.00	29.95	172	188	Horizontal
4	12740.4000	37.87	-92.47	-54.60	-25.00	29.60	201	218	Horizontal
5	15288.4800	36.08	-90.78	-54.70	-25.00	29.70	156	202	Horizontal
6	17836.5600	39.16	-88.76	-49.60	-25.00	24.60	233	344	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5096.1600	48.93	-107.71	-58.78	-25.00	33.78	148	145	Vertical
2	7632	52.27	-101.80	-49.53	-25.00	24.53	159	25	Vertical
3	10192.3200	41.40	-95.93	-54.53	-25.00	29.53	236	70	Vertical
4	12740.4000	37.85	-92.47	-54.62	-25.00	29.62	254	56	Vertical
5	15288.4800	35.00	-90.78	-55.78	-25.00	30.78	172	266	Vertical
6	17836.5600	39.38	-88.76	-49.38	-25.00	24.38	198	359	Vertical

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Test Band = _5G NR SA Band 41 ANT0 TM1**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4002	52.42	-110.49	-58.07	-25.00	33.07	126	226	Horizontal	
2	5190.1800	49.00	-107.56	-58.56	-25.00	33.56	235	283	Horizontal	
3	7785.2700	47.00	-100.93	-53.93	-25.00	28.93	140	326	Horizontal	
4	10380.3600	40.99	-95.43	-54.44	-25.00	29.44	198	197	Horizontal	
5	12975.4500	38.21	-92.73	-54.52	-25.00	29.52	172	140	Horizontal	
6	15570.5400	34.56	-91.86	-57.30	-25.00	32.30	155	255	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4022.25	51.38	-110.40	-59.02	-25.00	34.02	102	283	Vertical	
2	5190.1800	48.62	-107.56	-58.94	-25.00	33.94	233	243	Vertical	
3	7785.2700	45.94	-100.93	-54.99	-25.00	29.99	164	141	Vertical	
4	10380.3600	40.56	-95.43	-54.87	-25.00	29.87	198	269	Vertical	
5	12975.4500	37.57	-92.73	-55.16	-25.00	30.16	172	13	Vertical	
6	15570.5400	34.74	-91.86	-57.12	-25.00	32.12	221	3	Vertical	

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Test Band = _5G NR SA Band 41 ANT3 TM1**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5002.2000	48.45	-108.01	-59.56	-25.00	34.56	125	255	Horizontal	
2	7491	54.04	-101.98	-47.94	-25.00	22.94	236	240	Horizontal	
3	10004.4000	41.33	-96.00	-54.67	-25.00	29.67	194	312	Horizontal	
4	12505.5000	37.09	-93.07	-55.98	-25.00	30.98	172	255	Horizontal	
5	15006.6000	35.24	-90.70	-55.46	-25.00	30.46	258	212	Horizontal	
6	17507.7000	39.31	-90.99	-51.68	-25.00	26.68	148	168	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4993.5	54.47	-108.03	-53.56	-25.00	28.56	215	4	Vertical	
2	7503.3000	47.06	-101.95	-54.89	-25.00	29.89	145	360	Vertical	
3	10004.4000	41.69	-96.00	-54.31	-25.00	29.31	231	55	Vertical	
4	12505.5000	38.57	-93.07	-54.50	-25.00	29.50	203	4	Vertical	
5	15006.6000	35.23	-90.70	-55.47	-25.00	30.47	269	112	Vertical	
6	17507.7000	39.27	-90.99	-51.72	-25.00	26.72	147	98	Vertical	

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Test Band = _5G NR SA Band 41 ANT3 TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5096.1600	48.33	-107.71	-59.38	-25.00	34.38	123	268	Horizontal	
2	7644.2400	46.42	-101.80	-55.38	-25.00	30.38	265	71	Horizontal	
3	10192.3200	40.45	-95.93	-55.48	-25.00	30.48	194	105	Horizontal	
4	12740.4000	36.96	-92.47	-55.51	-25.00	30.51	177	128	Horizontal	
5	15288.4800	35.33	-90.78	-55.45	-25.00	30.45	188	282	Horizontal	
6	17836.5600	40.32	-88.76	-48.44	-25.00	23.44	196	268	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5096.1600	48.99	-107.71	-58.72	-25.00	33.72	148	155	Vertical	
2	7644.2400	48.10	-101.80	-53.70	-25.00	28.70	175	86	Vertical	
3	10192.3200	41.43	-95.93	-54.50	-25.00	29.50	146	215	Vertical	
4	12740.4000	38.05	-92.47	-54.42	-25.00	29.42	195	355	Vertical	
5	15288.4800	36.25	-90.78	-54.53	-25.00	29.53	128	314	Vertical	
6	17836.5600	40.82	-88.76	-47.94	-25.00	22.94	221	351	Vertical	



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Test Band = _5G NR SA Band 41 ANT3 TM1**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3730.5	52.26	-110.81	-58.55	-25.00	33.55	125	108	Horizontal	
2	5190.1800	48.74	-107.56	-58.82	-25.00	33.82	301	300	Horizontal	
3	7785.2700	45.67	-100.93	-55.26	-25.00	30.26	155	359	Horizontal	
4	10380.3600	40.91	-95.43	-54.52	-25.00	29.52	164	69	Horizontal	
5	12975.4500	36.15	-92.73	-56.58	-25.00	31.58	187	155	Horizontal	
6	15570.5400	35.29	-91.86	-56.57	-25.00	31.57	185	127	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3777	51.87	-110.84	-58.97	-25.00	33.97	222	97	Vertical	
2	5190.1800	47.62	-107.56	-59.94	-25.00	34.94	145	42	Vertical	
3	7785.2700	46.37	-100.93	-54.56	-25.00	29.56	169	239	Vertical	
4	10380.3600	42.22	-95.43	-53.21	-25.00	28.21	185	296	Vertical	
5	12975.4500	38.27	-92.73	-54.46	-25.00	29.46	149	126	Vertical	
6	15570.5400	36.14	-91.86	-55.72	-25.00	30.72	211	311	Vertical	

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Test Band = _5G NR SA Band 41 ANT7 TM1**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5002.2000	48.09	-108.01	-59.92	-25.00	34.92	148	55	Horizontal	
2	7503.3000	46.49	-101.95	-55.46	-25.00	30.46	196	341	Horizontal	
3	10004.4000	40.65	-96.00	-55.35	-25.00	30.35	254	243	Horizontal	
4	12505.5000	37.54	-93.07	-55.53	-25.00	30.53	136	257	Horizontal	
5	15006.6000	34.62	-90.70	-56.08	-25.00	31.08	201	72	Horizontal	
6	17507.7000	38.32	-90.99	-52.67	-25.00	27.67	237	72	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4994.25	59.88	-108.03	-48.15	-25.00	23.15	156	349	Vertical	
2	7503.3000	46.98	-101.95	-54.97	-25.00	29.97	148	41	Vertical	
3	10004.4000	41.70	-96.00	-54.30	-25.00	29.30	199	154	Vertical	
4	12505.5000	36.91	-93.07	-56.16	-25.00	31.16	233	127	Vertical	
5	15006.6000	35.04	-90.70	-55.66	-25.00	30.66	205	255	Vertical	
6	17507.7000	38.38	-90.99	-52.61	-25.00	27.61	149	41	Vertical	

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Test Band = _5G NR SA Band 41 ANT7 TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5088	52.06	-107.73	-55.67	-25.00	30.67	265	114	Horizontal	
2	7644.2400	46.02	-101.80	-55.78	-25.00	30.78	145	41	Horizontal	
3	10192.3200	40.02	-95.93	-55.91	-25.00	30.91	190	13	Horizontal	
4	12740.4000	37.44	-92.47	-55.03	-25.00	30.03	222	126	Horizontal	
5	15288.4800	36.26	-90.78	-54.52	-25.00	29.52	219	240	Horizontal	
6	17836.5600	40.52	-88.76	-48.24	-25.00	23.24	284	349	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5096.1600	49.51	-107.71	-58.20	-25.00	33.20	149	226	Vertical	
2	7632.75	52.13	-101.80	-49.67	-25.00	24.67	185	284	Vertical	
3	10192.3200	41.46	-95.93	-54.47	-25.00	29.47	146	242	Vertical	
4	12740.4000	38.08	-92.47	-54.39	-25.00	29.39	235	256	Vertical	
5	15288.4800	35.75	-90.78	-55.03	-25.00	30.03	102	355	Vertical	
6	17836.5600	39.15	-88.76	-49.61	-25.00	24.61	177	114	Vertical	

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Test Band = _5G NR SA Band 41 ANT7 TM1**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3648.75	51.71	-111.30	-59.59	-25.00	34.59	122	100	Horizontal	
2	5190.1800	47.94	-107.56	-59.62	-25.00	34.62	265	340	Horizontal	
3	7785.2700	46.36	-100.93	-54.57	-25.00	29.57	258	200	Horizontal	
4	10380.3600	40.91	-95.43	-54.52	-25.00	29.52	143	312	Horizontal	
5	12975.4500	37.46	-92.73	-55.27	-25.00	30.27	231	257	Horizontal	
6	15570.5400	36.61	-91.86	-55.25	-25.00	30.25	259	29	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3974.25	51.97	-110.62	-58.65	-25.00	33.65	142	166	Vertical	
2	5190.1800	49.94	-107.56	-57.62	-25.00	32.62	196	99	Vertical	
3	7785.2700	46.17	-100.93	-54.76	-25.00	29.76	254	128	Vertical	
4	10380.3600	40.53	-95.43	-54.90	-25.00	29.90	175	198	Vertical	
5	12975.4500	38.25	-92.73	-54.48	-25.00	29.48	230	313	Vertical	
6	15570.5400	35.24	-91.86	-56.62	-25.00	31.62	168	184	Vertical	

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Test Band = _5G NR SA Band 38 ANT4 TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5142.1800	49.43	-107.63	-58.20	-25.00	33.20	158	359	Horizontal	
2	7713.2700	46.69	-101.66	-54.97	-25.00	29.97	149	115	Horizontal	
3	10284.3600	41.26	-95.58	-54.32	-25.00	29.32	176	127	Horizontal	
4	12855.4500	39.60	-92.56	-52.96	-25.00	27.96	236	86	Horizontal	
5	15426.5400	35.73	-90.58	-54.85	-25.00	29.85	254	326	Horizontal	
6	17997.6300	39.07	-87.60	-48.53	-25.00	23.53	190	298	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5142.1800	48.46	-107.63	-59.17	-25.00	34.17	265	59	Vertical	
2	7713.2700	45.86	-101.66	-55.80	-25.00	30.80	184	359	Vertical	
3	10284.3600	41.57	-95.58	-54.01	-25.00	29.01	196	82	Vertical	
4	12855.4500	39.01	-92.56	-53.55	-25.00	28.55	254	239	Vertical	
5	15426.5400	37.34	-90.58	-53.24	-25.00	28.24	133	111	Vertical	
6	17997.6300	39.65	-87.60	-47.95	-25.00	22.95	211	28	Vertical	

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Test Band = _5G NR SA Band 38 ANT4 TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4014	51.76	-110.44	-58.68	-25.00	33.68	136	29	Horizontal	
2	5172.1800	47.72	-107.59	-59.87	-25.00	34.87	254	269	Horizontal	
3	7758.2700	46.08	-101.20	-55.12	-25.00	30.12	100	296	Horizontal	
4	10344.3600	40.89	-95.47	-54.58	-25.00	29.58	175	169	Horizontal	
5	12930.4500	38.62	-92.68	-54.06	-25.00	29.06	142	14	Horizontal	
6	15516.5400	34.33	-92.01	-57.68	-25.00	32.68	150	325	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3830.25	52.15	-110.89	-58.74	-25.00	33.74	122	285	Vertical	
2	5172.1800	48.54	-107.59	-59.05	-25.00	34.05	136	14	Vertical	
3	7758.2700	47.84	-101.20	-53.36	-25.00	28.36	145	270	Vertical	
4	10344.3600	42.28	-95.47	-53.19	-25.00	28.19	199	326	Vertical	
5	12930.4500	37.44	-92.68	-55.24	-25.00	30.24	254	127	Vertical	
6	15516.5400	34.95	-92.01	-57.06	-25.00	32.06	170	156	Vertical	

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Test Band = _5G NR SA Band 38 ANT4 TM1**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4236	52.27	-109.77	-57.50	-25.00	32.50	155	270	Horizontal	
2	5202.1800	48.79	-107.55	-58.76	-25.00	33.76	236	57	Horizontal	
3	7803.2700	46.58	-100.80	-54.22	-25.00	29.22	194	299	Horizontal	
4	10404.3600	40.33	-95.40	-55.07	-25.00	30.07	172	359	Horizontal	
5	13005.4500	37.81	-92.74	-54.93	-25.00	29.93	158	99	Horizontal	
6	15606.5400	34.88	-91.70	-56.82	-25.00	31.82	140	43	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1621.3333	39.50	-95.55	-56.05	-25.00	31.05	105	92	Vertical	
2	5202.1800	47.75	-107.55	-59.80	-25.00	34.80	188	145	Vertical	
3	7803.2700	46.15	-100.80	-54.65	-25.00	29.65	194	98	Vertical	
4	10404.3600	42.65	-95.40	-52.75	-25.00	27.75	172	186	Vertical	
5	13005.4500	37.36	-92.74	-55.38	-25.00	30.38	201	4	Vertical	
6	15606.5400	34.18	-91.70	-57.52	-25.00	32.52	269	329	Vertical	

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Test Band = _5G NR SA Band 38 ANT0 TM1**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5142.1800	48.40	-107.63	-59.23	-25.00	34.23	149	184	Horizontal	
2	7713.2700	46.55	-101.66	-55.11	-25.00	30.11	165	98	Horizontal	
3	10284.3600	40.89	-95.58	-54.69	-25.00	29.69	185	312	Horizontal	
4	12855.4500	38.08	-92.56	-54.48	-25.00	29.48	172	298	Horizontal	
5	15426.5400	35.27	-90.58	-55.31	-25.00	30.31	233	298	Horizontal	
6	17997.6300	39.00	-87.60	-48.60	-25.00	23.60	162	340	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5142.1800	48.38	-107.63	-59.25	-25.00	34.25	169	99	Vertical	
2	7713.2700	46.96	-101.66	-54.70	-25.00	29.70	148	158	Vertical	
3	10284.3600	42.03	-95.58	-53.55	-25.00	28.55	172	26	Vertical	
4	12855.4500	37.46	-92.56	-55.10	-25.00	30.10	233	99	Vertical	
5	15426.5400	35.48	-90.58	-55.10	-25.00	30.10	201	214	Vertical	
6	17997.6300	39.42	-87.60	-48.18	-25.00	23.18	168	99	Vertical	

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Test Band = _5G NR SA Band 38 ANT0 TM1**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3990.75	51.65	-110.54	-58.89	-25.00	33.89	185	296	Horizontal	
2	5172.1800	48.82	-107.59	-58.77	-25.00	33.77	146	311	Horizontal	
3	7758.2700	47.79	-101.20	-53.41	-25.00	28.41	193	42	Horizontal	
4	10344.3600	41.39	-95.47	-54.08	-25.00	29.08	257	268	Horizontal	
5	12930.4500	40.30	-92.68	-52.38	-25.00	27.38	143	154	Horizontal	
6	15516.5400	35.08	-92.01	-56.93	-25.00	31.93	221	29	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3748.5	51.60	-110.82	-59.22	-25.00	34.22	148	312	Vertical	
2	5172.1800	48.96	-107.59	-58.63	-25.00	33.63	196	3	Vertical	
3	7758.2700	46.62	-101.20	-54.58	-25.00	29.58	233	155	Vertical	
4	10344.3600	40.82	-95.47	-54.65	-25.00	29.65	145	84	Vertical	
5	12930.4500	37.78	-92.68	-54.90	-25.00	29.90	172	359	Vertical	
6	15516.5400	34.18	-92.01	-57.83	-25.00	32.83	228	28	Vertical	

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Test Band = _5G NR SA Band 38 ANT0 TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3246	53.19	-111.70	-58.51	-25.00	33.51	126	145	Horizontal	
2	5202.1800	48.45	-107.55	-59.10	-25.00	34.10	238	171	Horizontal	
3	7803.2700	46.64	-100.80	-54.16	-25.00	29.16	194	341	Horizontal	
4	10404.3600	40.43	-95.40	-54.97	-25.00	29.97	172	240	Horizontal	
5	13005.4500	38.29	-92.74	-54.45	-25.00	29.45	201	256	Horizontal	
6	15606.5400	35.37	-91.70	-56.33	-25.00	31.33	288	359	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3512.25	52.15	-111.97	-59.82	-25.00	34.82	105	226	Vertical	
2	5202.1800	47.67	-107.55	-59.88	-25.00	34.88	236	4	Vertical	
3	7803.2700	46.44	-100.80	-54.36	-25.00	29.36	169	359	Vertical	
4	10404.3600	41.78	-95.40	-53.62	-25.00	28.62	194	360	Vertical	
5	13005.4500	37.81	-92.74	-54.93	-25.00	29.93	172	171	Vertical	
6	15606.5400	35.02	-91.70	-56.68	-25.00	31.68	222	86	Vertical	

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Test Band = _5G NR SA Band 38 ANT3 TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	47.87	-107.63	-59.76	-25.00	34.76	145	25	Horizontal
2	7713.2700	45.61	-101.66	-56.05	-25.00	31.05	193	171	Horizontal
3	10284.3600	41.05	-95.58	-54.53	-25.00	29.53	125	26	Horizontal
4	12855.4500	37.15	-92.56	-55.41	-25.00	30.41	148	228	Horizontal
5	15426.5400	36.74	-90.58	-53.84	-25.00	28.84	175	33	Horizontal
6	17997.6300	38.72	-87.60	-48.88	-25.00	23.88	230	142	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	48.28	-107.63	-59.35	-25.00	34.35	184	122	Vertical
2	7748.25	49.60	-101.31	-51.71	-25.00	26.71	166	184	Vertical
3	10284.3600	41.12	-95.58	-54.46	-25.00	29.46	255	358	Vertical
4	12855.4500	37.96	-92.56	-54.60	-25.00	29.60	194	69	Vertical
5	15426.5400	35.85	-90.58	-54.73	-25.00	29.73	118	326	Vertical
6	17997.6300	38.59	-87.60	-49.01	-25.00	24.01	223	298	Vertical

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Test Band = _5G NR SA Band 38 ANT3 TM1**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3795	51.33	-110.85	-59.52	-25.00	34.52	185	72	Horizontal	
2	5172.1800	47.78	-107.59	-59.81	-25.00	34.81	194	166	Horizontal	
3	7758.2700	46.51	-101.20	-54.69	-25.00	29.69	176	359	Horizontal	
4	10344.3600	40.35	-95.47	-55.12	-25.00	30.12	230	141	Horizontal	
5	12930.4500	37.90	-92.68	-54.78	-25.00	29.78	254	72	Horizontal	
6	15516.5400	34.23	-92.01	-57.78	-25.00	32.78	182	286	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3676.5	51.92	-111.02	-59.10	-25.00	34.10	184	242	Vertical	
2	5172.1800	48.10	-107.59	-59.49	-25.00	34.49	172	29	Vertical	
3	7758.2700	45.60	-101.20	-55.60	-25.00	30.60	236	312	Vertical	
4	10344.3600	42.17	-95.47	-53.30	-25.00	28.30	196	56	Vertical	
5	12930.4500	37.60	-92.68	-55.08	-25.00	30.08	142	312	Vertical	
6	15516.5400	35.36	-92.01	-56.65	-25.00	31.65	102	213	Vertical	



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Test Band = _5G NR SA Band 38 ANT3 TM1**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3991.5	51.41	-110.54	-59.13	-25.00	34.13	105	356	Horizontal	
2	5202.1800	47.72	-107.55	-59.83	-25.00	34.83	146	312	Horizontal	
3	7803.2700	46.38	-100.80	-54.42	-25.00	29.42	182	14	Horizontal	
4	10404.3600	41.49	-95.40	-53.91	-25.00	28.91	233	98	Horizontal	
5	13005.4500	37.29	-92.74	-55.45	-25.00	30.45	105	157	Horizontal	
6	15606.5400	36.97	-91.70	-54.73	-25.00	29.73	177	255	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3567	52.43	-111.85	-59.42	-25.00	34.42	158	41	Vertical	
2	5202.1800	47.82	-107.55	-59.73	-25.00	34.73	196	200	Vertical	
3	7803.2700	46.09	-100.80	-54.71	-25.00	29.71	302	69	Vertical	
4	10404.3600	40.50	-95.40	-54.90	-25.00	29.90	147	144	Vertical	
5	13005.4500	36.97	-92.74	-55.77	-25.00	30.77	158	4	Vertical	
6	15606.5400	34.93	-91.70	-56.77	-25.00	31.77	190	360	Vertical	

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Test Band = _5G NR SA Band 38 ANT7 TM1**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5142.1800	47.23	-107.63	-60.40	-25.00	35.40	126	145	Horizontal	
2	7713.2700	46.45	-101.66	-55.21	-25.00	30.21	235	29	Horizontal	
3	10284.3600	40.45	-95.58	-55.13	-25.00	30.13	194	111	Horizontal	
4	12855.4500	36.85	-92.56	-55.71	-25.00	30.71	172	29	Horizontal	
5	15426.5400	35.61	-90.58	-54.97	-25.00	29.97	166	128	Horizontal	
6	17997.6300	40.34	-87.60	-47.26	-25.00	22.26	210	269	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5142.1800	48.26	-107.63	-59.37	-25.00	34.37	169	3	Vertical	
2	7713.2700	46.63	-101.66	-55.03	-25.00	30.03	145	111	Vertical	
3	10284.3600	41.84	-95.58	-53.74	-25.00	28.74	182	54	Vertical	
4	12855.4500	37.76	-92.56	-54.80	-25.00	29.80	230	255	Vertical	
5	15426.5400	35.60	-90.58	-54.98	-25.00	29.98	152	41	Vertical	
6	17997.6300	39.45	-87.60	-48.15	-25.00	23.15	199	126	Vertical	

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Test Band = _5G NR SA Band 38 ANT7 TM1**Test Channel = Mid**

Final Data List									
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4011	52.47	-110.45	-57.98	-25.00	32.98	125	200	Horizontal
2	5172.1800	48.15	-107.59	-59.44	-25.00	34.44	162	145	Horizontal
3	7758.2700	46.82	-101.20	-54.38	-25.00	29.38	233	29	Horizontal
4	10344.3600	41.59	-95.47	-53.88	-25.00	28.88	142	359	Horizontal
5	12930.4500	38.53	-92.68	-54.15	-25.00	29.15	188	4	Horizontal
6	15516.5400	34.21	-92.01	-57.80	-25.00	32.80	145	128	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3983.25	51.92	-110.58	-58.66	-25.00	33.66	155	226	Vertical
2	5172.1800	48.81	-107.59	-58.78	-25.00	33.78	164	41	Vertical
3	7758.2700	47.22	-101.20	-53.98	-25.00	28.98	196	212	Vertical
4	10344.3600	42.00	-95.47	-53.47	-25.00	28.47	254	3	Vertical
5	12930.4500	38.63	-92.68	-54.05	-25.00	29.05	184	98	Vertical
6	15516.5400	35.02	-92.01	-56.99	-25.00	31.99	172	13	Vertical

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Test Band = _5G NR SA Band 38 ANT7 TM1**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3850.5	51.71	-110.91	-59.20	-25.00	34.20	126	145	Horizontal	
2	5202.1800	48.84	-107.55	-58.71	-25.00	33.71	233	185	Horizontal	
3	7803.2700	46.97	-100.80	-53.83	-25.00	28.83	148	85	Horizontal	
4	10404.3600	40.89	-95.40	-54.51	-25.00	29.51	196	4	Horizontal	
5	13005.4500	39.09	-92.74	-53.65	-25.00	28.65	185	350	Horizontal	
6	15606.5400	35.15	-91.70	-56.55	-25.00	31.55	172	257	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4083.75	51.82	-110.14	-58.32	-25.00	33.32	148	4	Vertical	
2	5202.1800	48.39	-107.55	-59.16	-25.00	34.16	196	155	Vertical	
3	7803.2700	47.39	-100.80	-53.41	-25.00	28.41	254	41	Vertical	
4	10404.3600	41.21	-95.40	-54.19	-25.00	29.19	175	359	Vertical	
5	13005.4500	37.68	-92.74	-55.06	-25.00	30.06	233	112	Vertical	
6	15606.5400	34.96	-91.70	-56.74	-25.00	31.74	201	214	Vertical	

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Test Band = _5G NR SA Band7 ANTO TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5002.1800	47.77	-108.01	-60.24	-25.00	35.24	126	29	Horizontal	
2	7503.2700	47.27	-101.95	-54.68	-25.00	29.68	235	85	Horizontal	
3	10004.3600	43.54	-96.00	-52.46	-25.00	27.46	148	326	Horizontal	
4	12505.4500	39.08	-93.07	-53.99	-25.00	28.99	196	170	Horizontal	
5	15006.5400	36.09	-90.70	-54.61	-25.00	29.61	175	256	Horizontal	
6	17507.6300	40.65	-90.99	-50.34	-25.00	25.34	201	312	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5002.1800	48.76	-108.01	-59.25	-25.00	34.25	145	355	Vertical	
2	7503.2700	47.76	-101.95	-54.19	-25.00	29.19	126	269	Vertical	
3	10004.3600	42.24	-96.00	-53.76	-25.00	28.76	188	325	Vertical	
4	12505.4500	40.65	-93.07	-52.42	-25.00	27.42	175	154	Vertical	
5	15006.5400	36.81	-90.70	-53.89	-25.00	28.89	233	255	Vertical	
6	17507.6300	39.67	-90.99	-51.32	-25.00	26.32	169	295	Vertical	



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Test Band = _5G NR SA Band7 ANTO TM1**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5052.1800	49.19	-107.85	-58.66	-25.00	33.66	169	128	Horizontal	
2	7578.2700	46.57	-101.83	-55.26	-25.00	30.26	145	170	Horizontal	
3	10104.3600	43.14	-95.74	-52.60	-25.00	27.60	182	299	Horizontal	
4	12630.4500	39.03	-93.26	-54.23	-25.00	29.23	142	313	Horizontal	
5	15156.5400	37.29	-90.62	-53.33	-25.00	28.33	236	170	Horizontal	
6	17682.6300	41.28	-89.09	-47.81	-25.00	22.81	204	56	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5052.1800	50.44	-107.85	-57.41	-25.00	32.41	122	14	Vertical	
2	7577.25	50.20	-101.84	-51.64	-25.00	26.64	233	98	Vertical	
3	10104.3600	42.18	-95.74	-53.56	-25.00	28.56	214	312	Vertical	
4	12630.4500	38.52	-93.26	-54.74	-25.00	29.74	152	69	Vertical	
5	15156.5400	36.58	-90.62	-54.04	-25.00	29.04	162	257	Vertical	
6	17682.6300	39.97	-89.09	-49.12	-25.00	24.12	148	112	Vertical	

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Test Band = _5G NR SA Band7 ANTO TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5102.1800	53.08	-107.69	-54.61	-25.00	29.61	114	299	Horizontal	
2	7653.2700	47.27	-101.80	-54.53	-25.00	29.53	198	359	Horizontal	
3	10204.3600	43.56	-95.93	-52.37	-25.00	27.37	185	128	Horizontal	
4	12755.4500	39.63	-92.47	-52.84	-25.00	27.84	203	313	Horizontal	
5	15306.5400	36.99	-90.80	-53.81	-25.00	28.81	215	213	Horizontal	
6	17857.6300	40.61	-88.58	-47.97	-25.00	22.97	274	256	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5102.1800	50.97	-107.69	-56.72	-25.00	31.72	156	221	Vertical	
2	7653.2700	46.60	-101.80	-55.20	-25.00	30.20	145	282	Vertical	
3	10204.3600	42.40	-95.93	-53.53	-25.00	28.53	195	311	Vertical	
4	12755.4500	38.47	-92.47	-54.00	-25.00	29.00	254	325	Vertical	
5	15306.5400	37.68	-90.80	-53.12	-25.00	28.12	174	97	Vertical	
6	17857.6300	41.38	-88.58	-47.20	-25.00	22.20	266	339	Vertical	



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Test Band = _5G NR SA Band7 ANT4 TM1**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5002.1800	48.05	-108.01	-59.96	-25.00	34.96	148	85	Horizontal	
2	7503.2700	47.21	-101.95	-54.74	-25.00	29.74	255	198	Horizontal	
3	10004.3600	42.58	-96.00	-53.42	-25.00	28.42	146	339	Horizontal	
4	12505.4500	39.17	-93.07	-53.90	-25.00	28.90	299	142	Horizontal	
5	15006.5400	37.54	-90.70	-53.16	-25.00	28.16	175	227	Horizontal	
6	17507.6300	40.23	-90.99	-50.76	-25.00	25.76	230	339	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5002.1800	50.56	-108.01	-57.45	-25.00	32.45	125	284	Vertical	
2	7503.2700	49.32	-101.95	-52.63	-25.00	27.63	145	359	Vertical	
3	10004.3600	43.00	-96.00	-53.00	-25.00	28.00	185	270	Vertical	
4	12505.4500	39.47	-93.07	-53.60	-25.00	28.60	196	359	Vertical	
5	15006.5400	36.98	-90.70	-53.72	-25.00	28.72	305	270	Vertical	
6	17507.6300	39.91	-90.99	-51.08	-25.00	26.08	177	157	Vertical	

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Test Band = _5G NR SA Band7 ANT4 TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5052.1800	47.64	-107.85	-60.21	-25.00	35.21	132	299	Horizontal	
2	7578.2700	46.28	-101.83	-55.55	-25.00	30.55	254	154	Horizontal	
3	10104.3600	41.96	-95.74	-53.78	-25.00	28.78	159	99	Horizontal	
4	12630.4500	38.83	-93.26	-54.43	-25.00	29.43	174	359	Horizontal	
5	15156.5400	37.32	-90.62	-53.30	-25.00	28.30	222	142	Horizontal	
6	17682.6300	39.96	-89.09	-49.13	-25.00	24.13	235	171	Horizontal	

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5052.1800	48.17	-107.85	-59.68	-25.00	34.68	105	243	Vertical	
2	7578.2700	46.86	-101.83	-54.97	-25.00	29.97	254	26	Vertical	
3	10104.3600	41.80	-95.74	-53.94	-25.00	28.94	175	112	Vertical	
4	12630.4500	38.47	-93.26	-54.79	-25.00	29.79	142	314	Vertical	
5	15156.5400	36.38	-90.62	-54.24	-25.00	29.24	236	112	Vertical	
6	17682.6300	40.45	-89.09	-48.64	-25.00	23.64	221	170	Vertical	

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Test Band = _5G NR SA Band7 ANT4 TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5101.5	54.43	-107.69	-53.26	-25.00	28.26	221	282	Horizontal
2	7652.25	51.52	-101.80	-50.28	-25.00	25.28	233	98	Horizontal
3	10204.3600	41.89	-95.93	-54.04	-25.00	29.04	214	85	Horizontal
4	12755.4500	38.84	-92.47	-53.63	-25.00	28.63	154	56	Horizontal
5	15306.5400	37.19	-90.80	-53.61	-25.00	28.61	198	85	Horizontal
6	17857.6300	40.10	-88.58	-48.48	-25.00	23.48	147	311	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	50.12	-107.69	-57.57	-25.00	32.57	122	39	Vertical
2	7653.2700	47.03	-101.80	-54.77	-25.00	29.77	236	153	Vertical
3	10204.3600	42.47	-95.93	-53.46	-25.00	28.46	254	255	Vertical
4	12755.4500	38.53	-92.47	-53.94	-25.00	28.94	196	167	Vertical
5	15306.5400	37.72	-90.80	-53.08	-25.00	28.08	148	144	Vertical
6	17857.6300	40.36	-88.58	-48.22	-25.00	23.22	172	15	Vertical

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