

FCC Test Report

Report Reference No......: HK2502080452-17E
FCC ID.....: 2BDI3-K
Compiled by
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Supervised by
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Len Liao

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Jason Zhou



Date of issue.....: Apr. 10, 2025
Testing Laboratory Name.....: **Shenzhen HUAKE Testing Technology Co., Ltd.**
Address.....: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park,
Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong,
China
Applicant's name.....: **Shenzhen Haimeilan Technology Co., LTD.**
Address.....: 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang
North Street, Futian District, Shenzhen, 518000 China

Test specification.....:
Standard.....: **FCC CFR Title 47 Part 2, Part 27**
TRF Originator.....: Shenzhen HUAKE Testing Technology Co., Ltd.
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Test item description.....: Smart Phone
Trade Mark.....: N/A
Manufacturer.....: **Shenzhen Haimeilan Technology Co., LTD.**
Model/Type reference.....: S25 Ultra
Series Models.....: F5 Pro, M13, F50 Pro, M5S Pro, F5, Note12 Pro, X40 Pro, X40
Edge, Mate 14, Mate 16, Mate 17, Mate 18, Mate 19, Mate 20,
Mate 21, Mate 22, Mate 23, Mate 24, Mate 25, Mate 26, Mate 27,
Mate28, D14, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25,
D26, D27, D28, D29, R12 pro, P5 pro, E50 Ultra, I16 pro max, P6
pro, Sp20 Pro, OP12 pro, T3 Pro, P8 Pro
Modulation Type.....: QPSK, 16QAM
Rating.....: DC5V from Type-C or DC3.85V from battery
Hardware version.....: V2.0
Software version.....: V2.0
Result.....: **PASS**

TEST REPORT

Test Report No.:	HK2502080452-17E	Apr. 10, 2025
		Date of issue

Equipment under Test : Smart Phone

Model /Type : S25 Ultra

Series Models : F5 Pro, M13, F50 Pro, M5S Pro, F5, Note12 Pro, X40 Pro, X40 Edge, Mate 14, Mate 16, Mate 17, Mate 18, Mate 19, Mate 20, Mate 21, Mate 22, Mate 23, Mate 24, Mate 25, Mate 26, Mate 27, Mate28, D14, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, R12 pro, P5 pro, E50 Ultra, I16 pro max, P6 pro, Sp20 Pro, OP12 pro, T3 Pro, P8 Pro

Applicant : **Shenzhen Haimeilan Technology Co., LTD.**

Address : 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang North Street, Futian District, Shenzhen, 518000 China

Manufacturer : **Shenzhen Haimeilan Technology Co., LTD.**

Address : 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang North Street, Futian District, Shenzhen, 518000 China

Test result	Pass
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Apr. 10, 2025	Jason Zhou

1 Summary

1.1 Test Standards

The tests were performed according to following standards:

[FCC Part 27](#): MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES.

[TIA/EIA 603 D June 2010](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards 47 CFR FCC Part 15 Subpart B: - Unintentional Radiators.

[FCC Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS.

[KDB 971168 D01 v03r01](#): Measurement Guidance For Certification Of Licensed Digital Transmitters.

1.2 Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 27.50(d)(4)	Pass
Peak-to-Average Ratio	Part 27.50(d)(4)	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 27.53(h)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 27.53(h)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 27.53(h)	Pass
Out of band emission, Band Edge	Part 2.1051 Part 27.53(h)	Pass
Frequency stability	Part 2.1055 Part 27.54	Pass

1.3 Information of The Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.
FCC Designation Number is CN1229.
Canada IC CAB identifier is CN0045.
CNAS Registration Number is L9589.

1.4 Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen HUAKE Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HUAKE Testing Technology Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2 General Information

2.1 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2 Description of Test Modes

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest middle and highest frequency of channel were selected to perform the test, then shown on this report.

Note:

1. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst result on this report.
2. Test method and refer to 3GPP TS136521.

2.3 Test Frequency List

TX Channel Bandwidth	Frequency (MHz)	channel
1.4 MHz	1710.7	131979
	1745	132322
	1779.3	132665
3 MHz	1711.5	131987
	1745	132322
	1778.5	132657
5 MHz	1712.5	131997
	1745	132322
	1777.5	132647
10 MHz	1715.0	132022
	1745	132322
	1775.0	132622
15 MHz	1717.5	132047
	1745	132322
	1772.5	132597
20 MHz	1720.0	132072
	1745	132322
	1770.0	132572

2.4 Equipments Used during the Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	L.I.S.N.	R&S	ENV216	HKE-002	2024/02/20	2025/02/19
2	L.I.S.N.	R&S	ENV216	HKE-059	2024/02/20	2025/02/19
3	EMI Test Receiver	R&S	ESR	HKE-005	2024/02/20	2025/02/19
4	Spectrum analyzer	Agilent	N9020A	HKE-117	2024/02/20	2025/02/19
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2024/02/20	2025/02/19
6	Preamplifier	EMCI	EMC051845S	HKE-006	2024/02/20	2025/02/19
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2024/02/20	2025/02/19
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2024/02/20	2025/02/19
9	6dB Attenuator	Pasternack	6db	HKE-184	2024/02/20	2025/02/19
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2024/02/20	2025/02/19
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2026/02/20
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2026/02/20
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2026/02/20
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	2024/02/20	2025/02/19
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2024/02/20	2025/02/19
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2024/02/20	2025/02/19
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2024/02/20	2025/02/19
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2024/06/10	2025/06/09
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2024/06/10	2025/06/09
22	RF Test Software	Tonscend	JS1120 Version 3.5.39	HKE-183	/	/
23	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

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Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	L.I.S.N.	R&S	ENV216	HKE-002	2025/02/19	2026/02/18
2	L.I.S.N.	R&S	ENV216	HKE-059	2025/02/19	2026/02/18
3	EMI Test Receiver	R&S	ESR	HKE-005	2025/02/19	2026/02/18
4	Spectrum analyzer	Agilent	N9020A	HKE-117	2025/02/19	2026/02/18
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2025/02/19	2026/02/18
6	Preamplifier	EMCI	EMC051845S	HKE-006	2025/02/19	2026/02/18
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2025/02/19	2026/02/18
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2025/02/19	2026/02/18
9	6dB Attenuator	Pasternack	6db	HKE-184	2025/02/19	2026/02/18
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2025/02/19	2026/02/18
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2026/02/20
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2026/02/20
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2026/02/20
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	2025/02/19	2026/02/18
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2025/02/19	2026/02/18
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2025/02/19	2026/02/18
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2025/02/19	2026/02/18
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2025/02/19	2026/02/18
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2025/02/19	2026/02/18
22	RF Test Software	Tonscend	JS1120 Version 3.5.39	HKE-183	/	/
23	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

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2.5 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2BDI3-K filing to comply with of the FCC Part 27 Rules.

2.6 Modifications

No modifications were implemented to meet testing criteria.

3 Test Conditions and Results

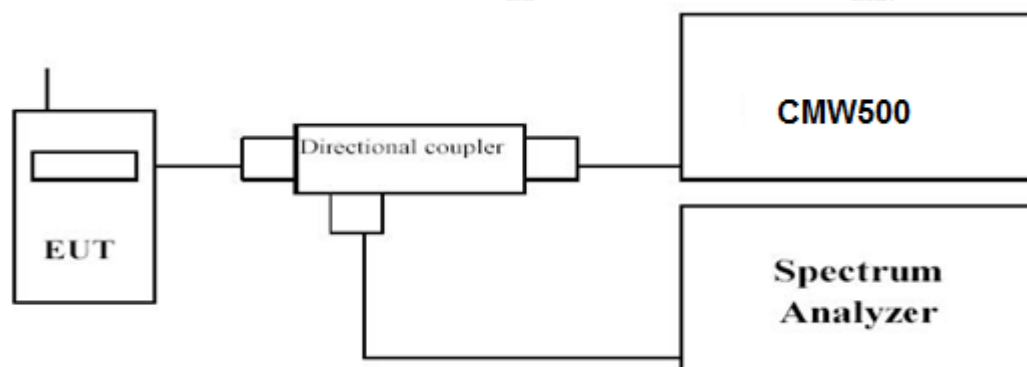
3.1 Output Power

LIMIT

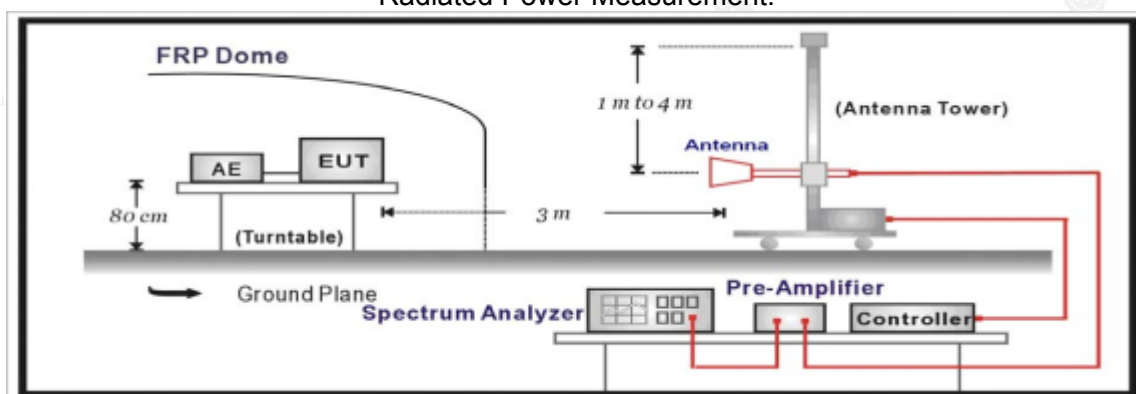
According to §27.50 (d) (4): Fixed, mobile, and portable (hand- held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

TEST CONFIGURATION

Conducted Power Measurement



Radiated Power Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

Conducted Power Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

- The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- The output of the test antenna shall be connected to the measuring receiver.

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- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- l. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. Test site anechoic chamber refer to ANSI C63.4.

TEST RESULTS

Conducted Measurement:

LTE FDD Band 66				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1710.7	1 RB low	22.98	21.79
		1 RB high	23.00	22.08
		50% RB mid	22.98	21.80
		100% RB	23.09	21.88
	1745	1 RB low	23.10	21.98
		1 RB high	23.25	22.24
		50% RB mid	23.06	21.91
		100% RB	23.14	21.94
	1779.3	1 RB low	23.09	22.10
		1 RB high	23.24	22.35
		50% RB mid	23.05	21.78
		100% RB	23.06	21.66
3 MHz	1711.5	1 RB low	22.55	21.61
		1 RB high	22.54	21.60
		50% RB mid	22.56	21.64
		100% RB	21.50	20.57
	1745	1 RB low	22.82	21.90
		1 RB high	22.95	21.71
		50% RB mid	22.86	21.77
		100% RB	22.14	21.07
	1778.5	1 RB low	23.12	22.27
		1 RB high	23.01	21.78
		50% RB mid	22.75	21.79
		100% RB	21.72	20.74

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5 MHz	1712.5	1 RB low	23.01	21.72
		1 RB high	23.00	21.65
		50% RB mid	22.81	21.60
		100% RB	21.61	20.59
	1745	1 RB low	23.12	22.19
		1 RB high	23.14	22.16
		50% RB mid	23.00	21.98
		100% RB	22.20	21.19
	1777.5	1 RB low	23.04	22.04
		1 RB high	23.21	22.13
		50% RB mid	22.80	22.05
		100% RB	21.72	20.76
10 MHz	1715.0	1 RB low	23.05	21.60
		1 RB high	23.03	21.75
		50% RB mid	22.67	21.65
		100% RB	21.68	20.66
	1745	1 RB low	23.34	21.96
		1 RB high	23.40	22.12
		50% RB mid	23.05	21.81
		100% RB	22.29	21.26
	1775.0	1 RB low	23.01	22.08
		1 RB high	23.14	22.02
		50% RB mid	22.73	21.81
		100% RB	21.72	20.78
15 MHz	1717.5	1 RB low	23.01	21.79
		1 RB high	22.93	21.70
		50% RB mid	22.74	21.75
		100% RB	22.66	21.71
	1745	1 RB low	23.18	22.29
		1 RB high	23.05	22.03
		50% RB mid	22.75	21.86
		100% RB	23.20	22.21
	1772.5	1 RB low	22.87	21.96
		1 RB high	23.13	22.09
		50% RB mid	22.96	21.86
		100% RB	22.72	21.74
20 MHz	1720.0	1 RB low	22.90	21.51
		1 RB high	22.98	21.74
		50% RB mid	22.68	21.60
		100% RB	21.94	20.70
	1745	1 RB low	23.14	22.28
		1 RB high	23.27	22.30
		50% RB mid	22.68	21.81
		100% RB	22.29	21.30
	1770.0	1 RB low	22.70	21.61
		1 RB high	23.13	22.12
		50% RB mid	23.03	21.47
		100% RB	21.89	20.94

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Radiated Measurement:

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.
2. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + P_{Ag}(dB) + G_a(dBi)$

LTE FDD Band 66_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	-19.36	3.06	9.68	34.80	22.06	30.00	7.94	V
1745	-20.79	3.17	9.68	34.80	20.52	30.00	9.48	V
1779.3	-20.32	3.22	9.75	34.80	21.01	30.00	8.99	V
1710.7	-21.49	3.06	9.68	34.80	19.93	30.00	10.07	H
1745	-20.72	3.17	9.68	34.80	20.59	30.00	9.41	H
1779.3	-20.46	3.22	9.75	34.80	20.87	30.00	9.13	H

LTE FDD Band 66_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	-19.41	3.06	9.68	34.80	22.01	30.00	7.99	V
1745	-20.24	3.17	9.68	34.80	21.07	30.00	8.93	V
1778.5	-20.18	3.22	9.75	34.80	21.15	30.00	8.85	V
1711.5	-21.03	3.06	9.68	34.80	20.39	30.00	9.61	H
1745	-19.81	3.17	9.68	34.80	21.50	30.00	8.50	H
1778.5	-21.72	3.22	9.75	34.80	19.61	30.00	10.39	H

LTE FDD Band 66_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	-19.79	3.06	9.68	34.80	21.63	30.00	8.37	V
1745	-19.98	3.17	9.68	34.80	21.33	30.00	8.67	V
1777.5	-21.31	3.22	9.75	34.80	20.02	30.00	9.98	V
1712.5	-19.42	3.06	9.68	34.80	22.00	30.00	8.00	H
1745	-20.82	3.17	9.68	34.80	20.49	30.00	9.51	H
1777.5	-20.29	3.22	9.75	34.80	21.04	30.00	8.96	H

LTE FDD Band 66_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	-19.21	3.06	9.68	34.80	22.21	30.00	7.79	V
1745	-20.21	3.17	9.68	34.80	21.10	30.00	8.90	V
1775.0	-20.79	3.22	9.75	34.80	20.54	30.00	9.46	V
1715.0	-20.44	3.06	9.68	34.80	20.98	30.00	9.02	H
1745	-21.16	3.17	9.68	34.80	20.15	30.00	9.85	H
1775.0	-19.50	3.22	9.75	34.80	21.83	30.00	8.17	H

LTE FDD Band 66_Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	-18.79	3.06	9.68	34.80	22.63	30.00	7.37	V
1745	-21.21	3.17	9.68	34.80	20.10	30.00	9.90	V
1772.5	-21.03	3.22	9.75	34.80	20.30	30.00	9.70	V
1717.5	-19.20	3.06	9.68	34.80	22.22	30.00	7.78	H
1745	-20.47	3.17	9.68	34.80	20.84	30.00	9.16	H
1772.5	-20.73	3.22	9.75	34.80	20.60	30.00	9.40	H

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	-18.49	3.06	9.68	34.80	22.93	30.00	7.07	V
1745	-20.90	3.17	9.68	34.80	20.41	30.00	9.59	V
1770.0	-20.00	3.22	9.75	34.80	21.33	30.00	8.67	V
1720.0	-19.79	3.06	9.68	34.80	21.63	30.00	8.37	H
1745	-20.39	3.17	9.68	34.80	20.92	30.00	9.08	H
1770.0	-21.29	3.22	9.75	34.80	20.04	30.00	9.96	H

LTE FDD Band 66_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	-20.03	3.06	9.68	34.80	21.39	30.00	8.61	V
1745	-21.23	3.17	9.68	34.80	20.08	30.00	9.92	V
1779.3	-21.11	3.22	9.75	34.80	20.22	30.00	9.78	V
1710.7	-19.97	3.06	9.68	34.80	21.45	30.00	8.55	H
1745	-20.81	3.17	9.68	34.80	20.50	30.00	9.50	H
1779.3	-20.64	3.22	9.75	34.80	20.69	30.00	9.31	H

LTE FDD Band 66_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	-19.87	3.06	9.68	34.80	21.55	30.00	8.45	V
1745	-21.05	3.17	9.68	34.80	20.26	30.00	9.74	V
1778.5	-21.03	3.22	9.75	34.80	20.30	30.00	9.70	V
1711.5	-20.35	3.06	9.68	34.80	21.07	30.00	8.93	H
1745	-21.40	3.17	9.68	34.80	19.91	30.00	10.09	H
1778.5	-21.02	3.22	9.75	34.80	20.31	30.00	9.69	H

LTE FDD Band 66_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	-19.51	3.06	9.68	34.80	21.91	30.00	8.09	V
1745	-20.86	3.17	9.68	34.80	20.45	30.00	9.55	V
1777.5	-20.79	3.22	9.75	34.80	20.54	30.00	9.46	V
1712.5	-20.09	3.06	9.68	34.80	21.33	30.00	8.67	H
1745	-21.02	3.17	9.68	34.80	20.29	30.00	9.71	H
1777.5	-21.54	3.22	9.75	34.80	19.79	30.00	10.21	H

LTE FDD Band 66_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	-19.68	3.06	9.68	34.80	21.74	30.00	8.26	V
1745	-19.57	3.17	9.68	34.80	21.74	30.00	8.26	V
1775.0	-21.52	3.22	9.75	34.80	19.81	30.00	10.19	V
1715.0	-20.81	3.06	9.68	34.80	20.61	30.00	9.39	H
1745	-20.09	3.17	9.68	34.80	21.22	30.00	8.78	H
1775.0	-20.73	3.22	9.75	34.80	20.60	30.00	9.40	H

LTE FDD Band 66_Channel Bandwidth 15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	-19.48	3.06	9.68	34.80	21.94	30.00	8.06	V
1745	-20.60	3.17	9.68	34.80	20.71	30.00	9.29	V
1772.5	-20.32	3.22	9.75	34.80	21.01	30.00	8.99	V
1717.5	-19.26	3.06	9.68	34.80	22.16	30.00	7.84	H
1745	-20.60	3.17	9.68	34.80	20.71	30.00	9.29	H
1772.5	-19.60	3.22	9.75	34.80	21.73	30.00	8.27	H

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM

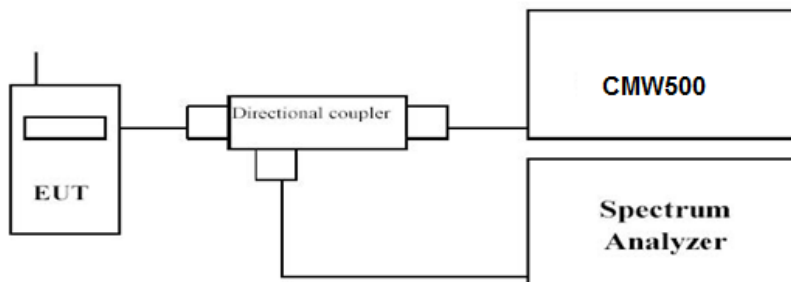
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	-18.36	3.06	9.68	34.80	23.06	30.00	6.94	V
1745	-19.93	3.17	9.68	34.80	21.38	30.00	8.62	V
1770.0	-20.48	3.22	9.75	34.80	20.85	30.00	9.15	V
1720.0	-21.01	3.06	9.68	34.80	20.41	30.00	9.59	H
1745	-20.73	3.17	9.68	34.80	20.58	30.00	9.42	H
1770.0	-20.17	3.22	9.75	34.80	21.16	30.00	8.84	H

3.2 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

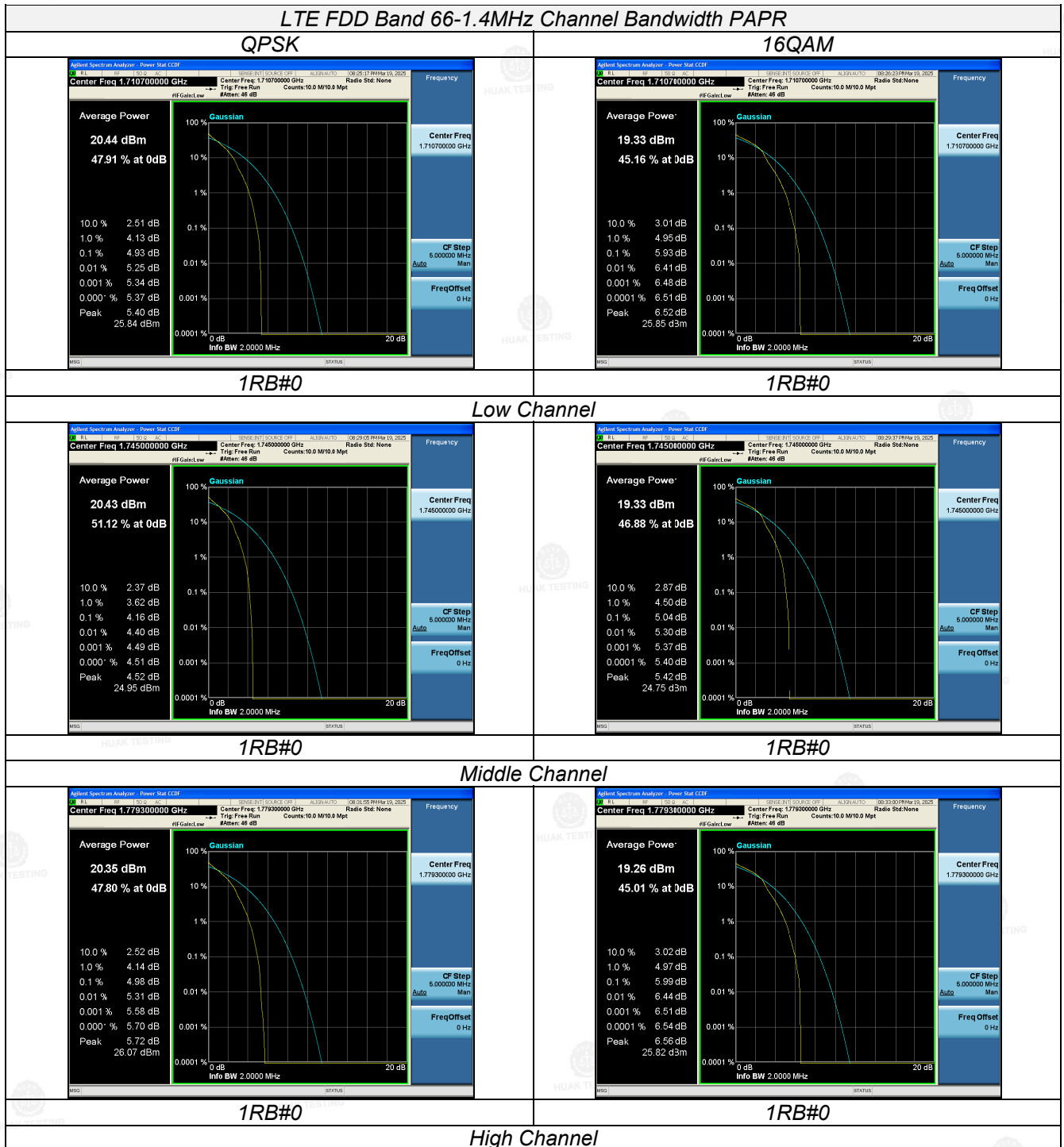
1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms;
 - 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Remark:

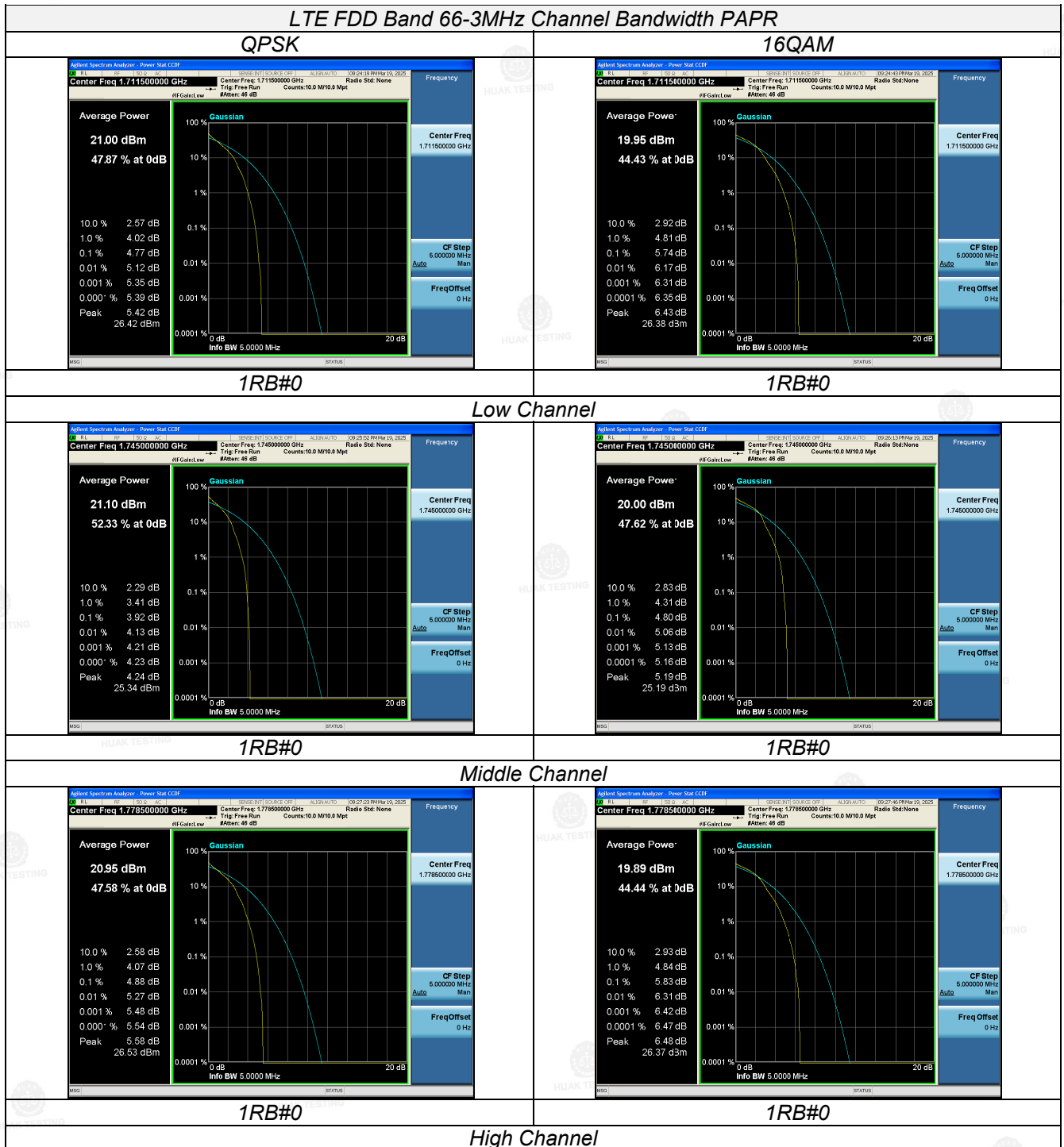
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.

LTE FDD Band 66				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	PAPR (dB)	
			QPSK	16QAM
1.4 MHz	1710.7	1RB#0	4.93	5.93
	1745		4.16	5.04
	1779.3		4.98	5.99
3 MHz	1711.5	1RB#0	4.77	5.74
	1745		3.92	4.80
	1778.5		4.88	5.83
5 MHz	1712.5	1RB#0	5.00	5.68
	1745		4.10	4.84
	1777.5		5.03	5.67
10 MHz	1715.0	1RB#0	4.86	5.84
	1745		4.06	4.93
	1775.0		4.77	5.60
15 MHz	1717.5	1RB#0	4.86	5.77
	1745		4.22	5.14
	1772.5		4.69	5.54
20 MHz	1720.0	1RB#0	4.82	5.53
	1745		4.55	5.41
	1770.0		4.30	8.47

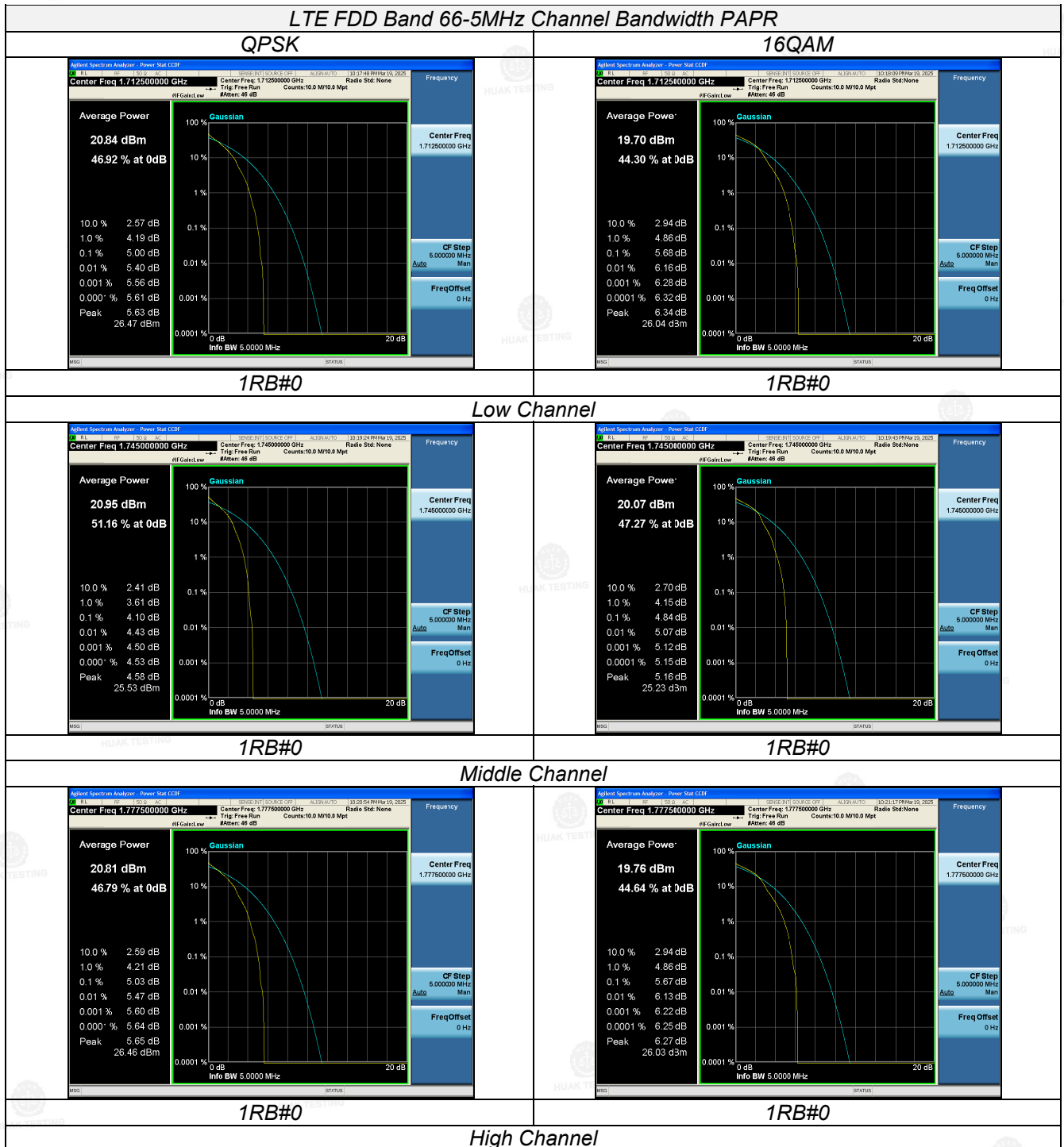


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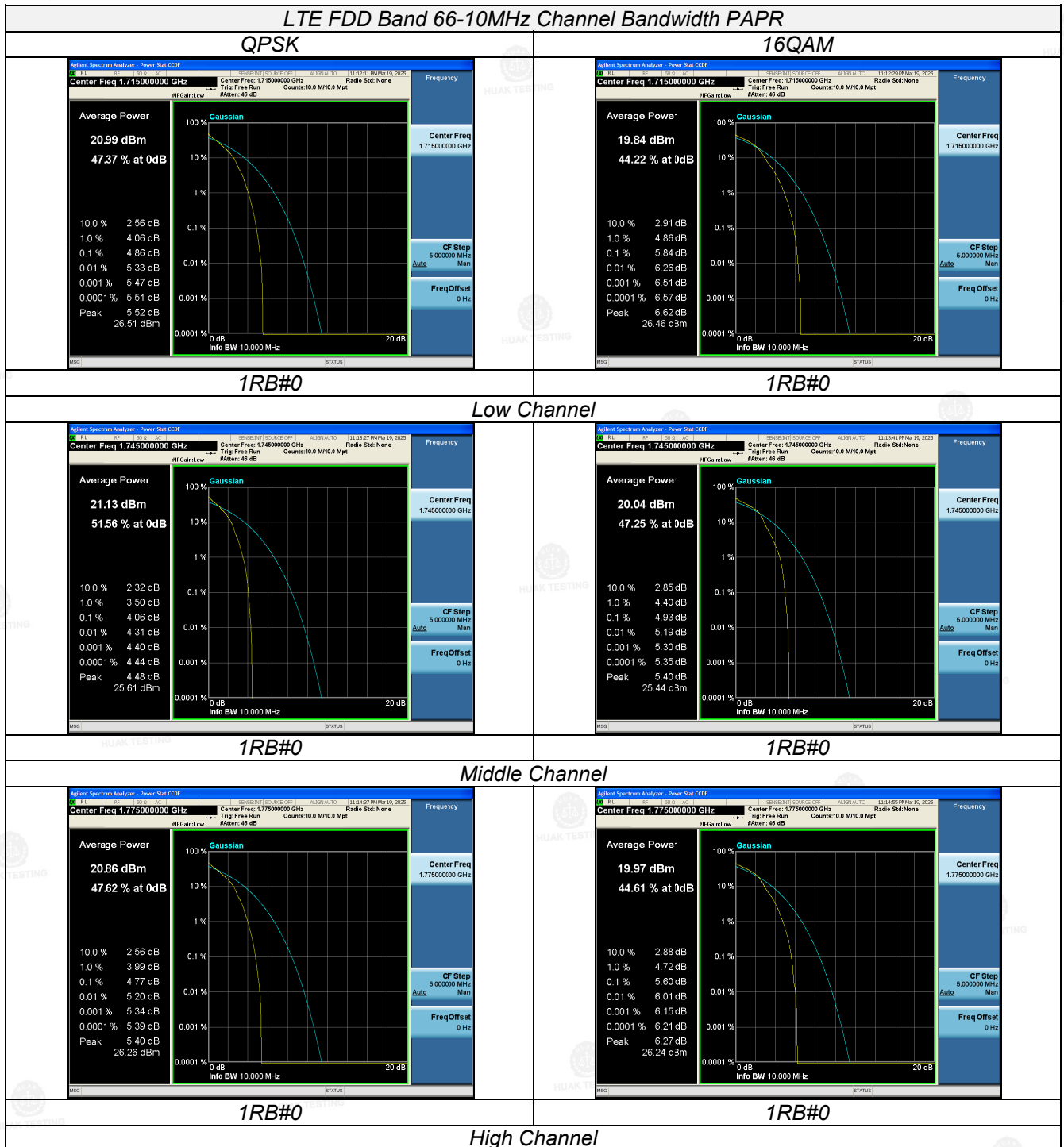
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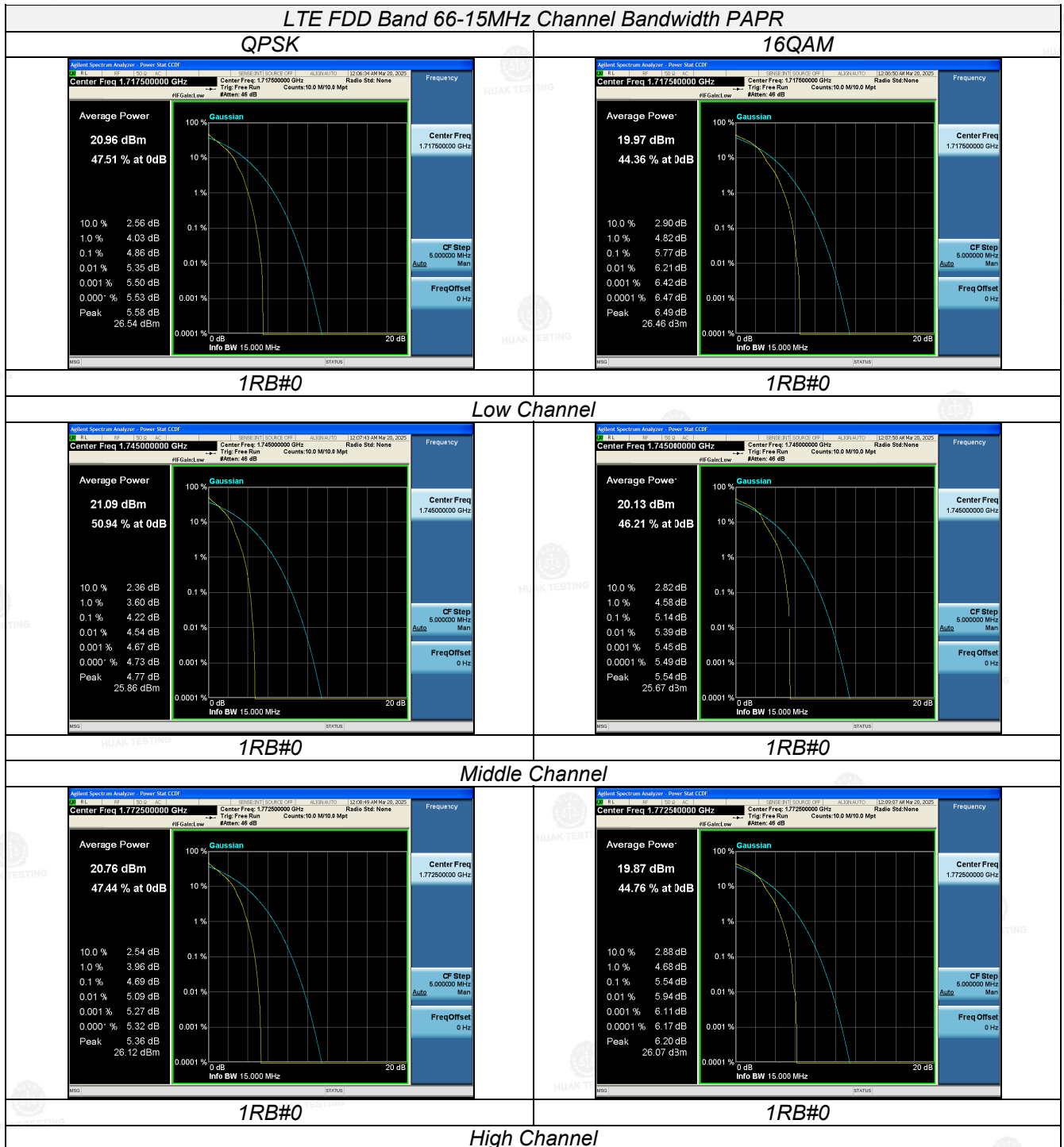
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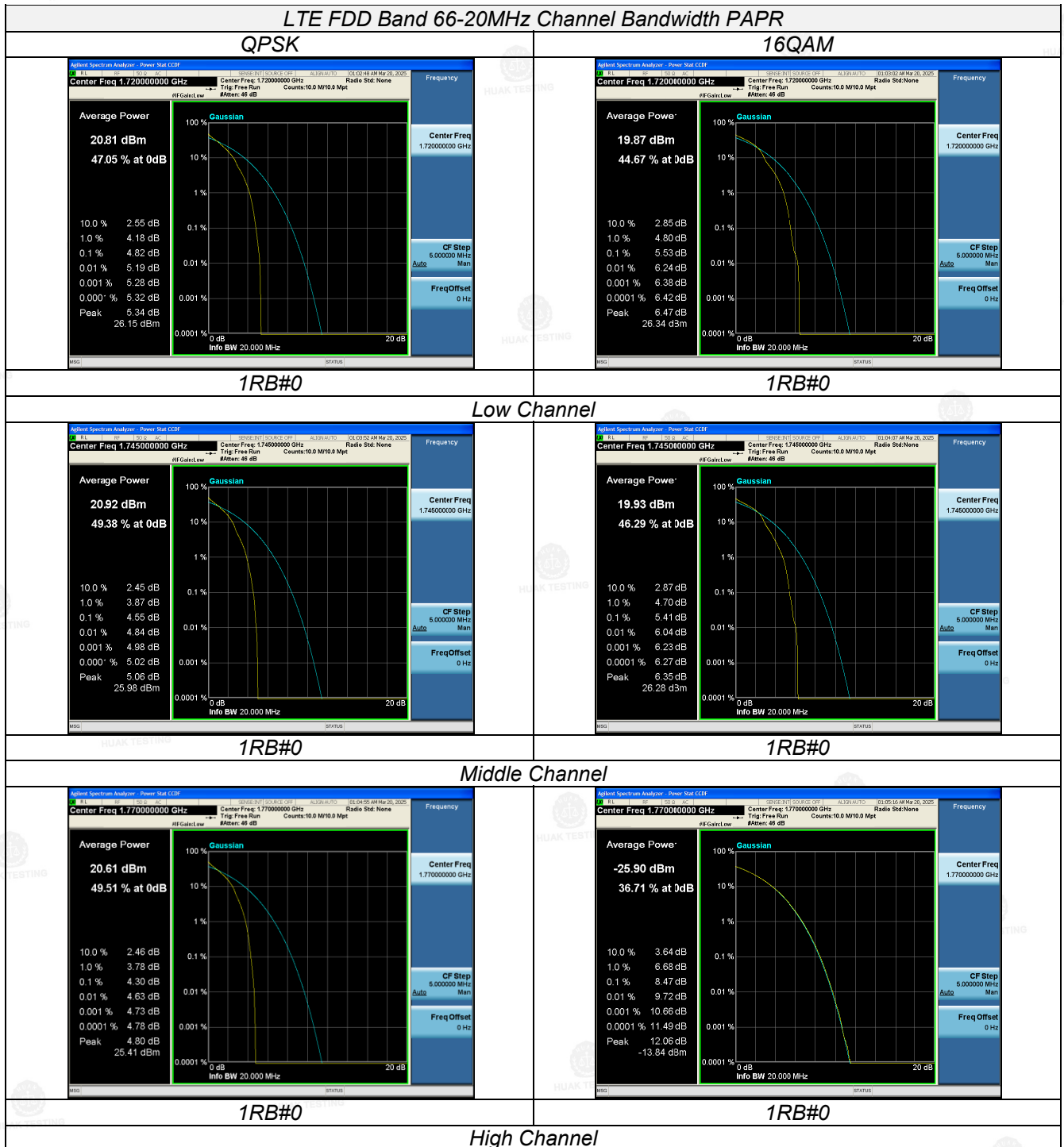


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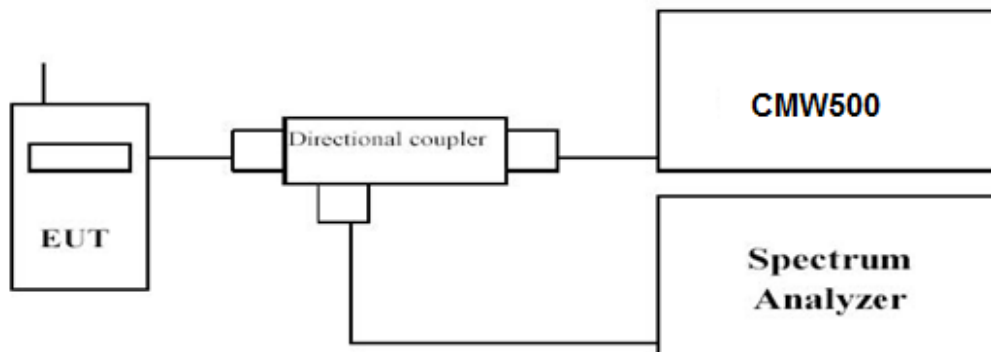
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3.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set RBW was set to about 1% of emission BW, VBW $\geq$ 3 times RBW. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

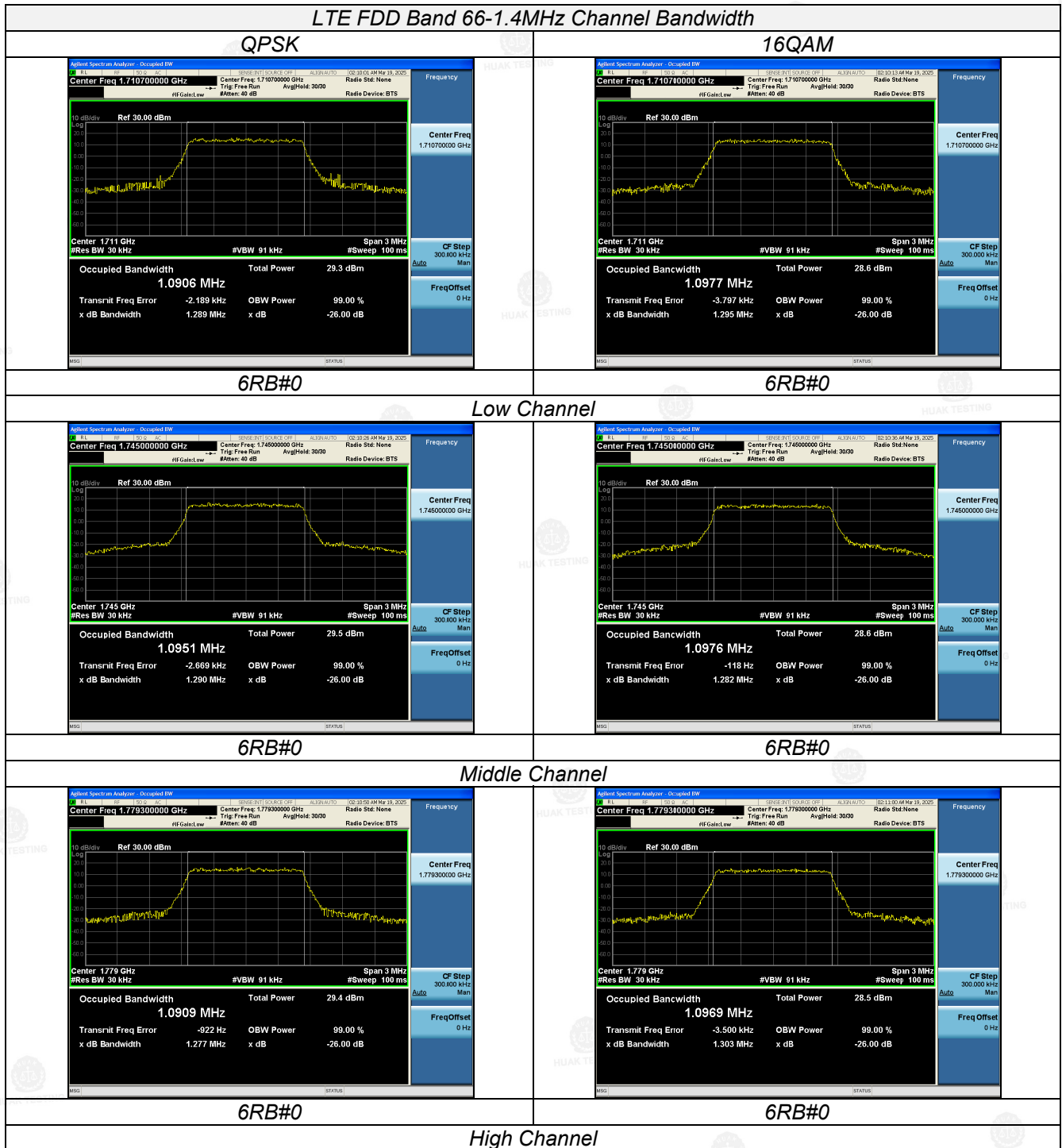
TEST RESULTS

Remark:

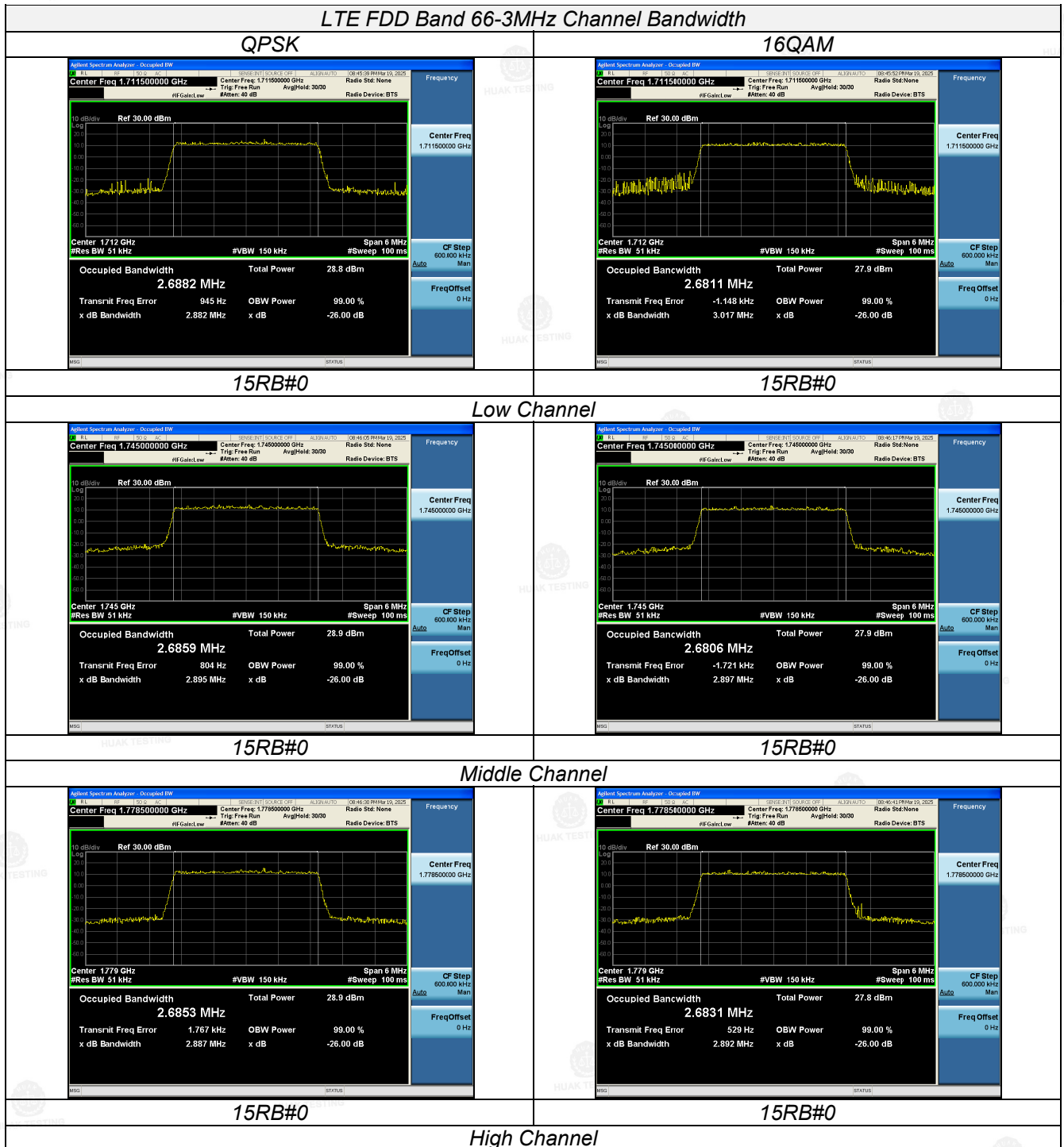
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.

LTE FDD Band 66						
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	-26dBc Emission bandwidth (MHz)		99% Occupied bandwidth (MHz)	
			QPSK	16QAM	QPSK	16QAM
1.4 MHz	6RB#0	1710.7	1.289	1.295	1.0906	1.0977
		1745	1.290	1.282	1.0951	1.0976
		1779.3	1.277	1.303	1.0909	1.0969
3 MHz	15RB#0	1711.5	2.882	3.017	2.6882	2.6811
		1745	2.895	2.897	2.6859	2.6806
		1778.5	2.887	2.892	2.6853	2.6831
5 MHz	25RB#0	1712.5	5.202	5.112	4.5202	4.5180
		1745	5.149	5.204	4.5114	4.5287
		1777.5	5.180	5.124	4.5216	4.5175
10 MHz	50RB#0	1715.0	10.13	10.05	9.0166	9.0199
		1745	10.15	10.15	9.0107	9.0024
		1775.0	10.15	10.04	9.0025	9.0031
15 MHz	75RB#0	1717.5	15.29	15.01	13.503	13.535
		1745	15.08	15.07	13.459	13.501
		1772.5	15.12	14.99	13.520	13.499
20 MHz	100RB#0	1720.0	19.75	19.84	17.986	17.990
		1745	20.03	19.67	18.011	17.982
		1770.0	19.91	19.70	17.984	18.003

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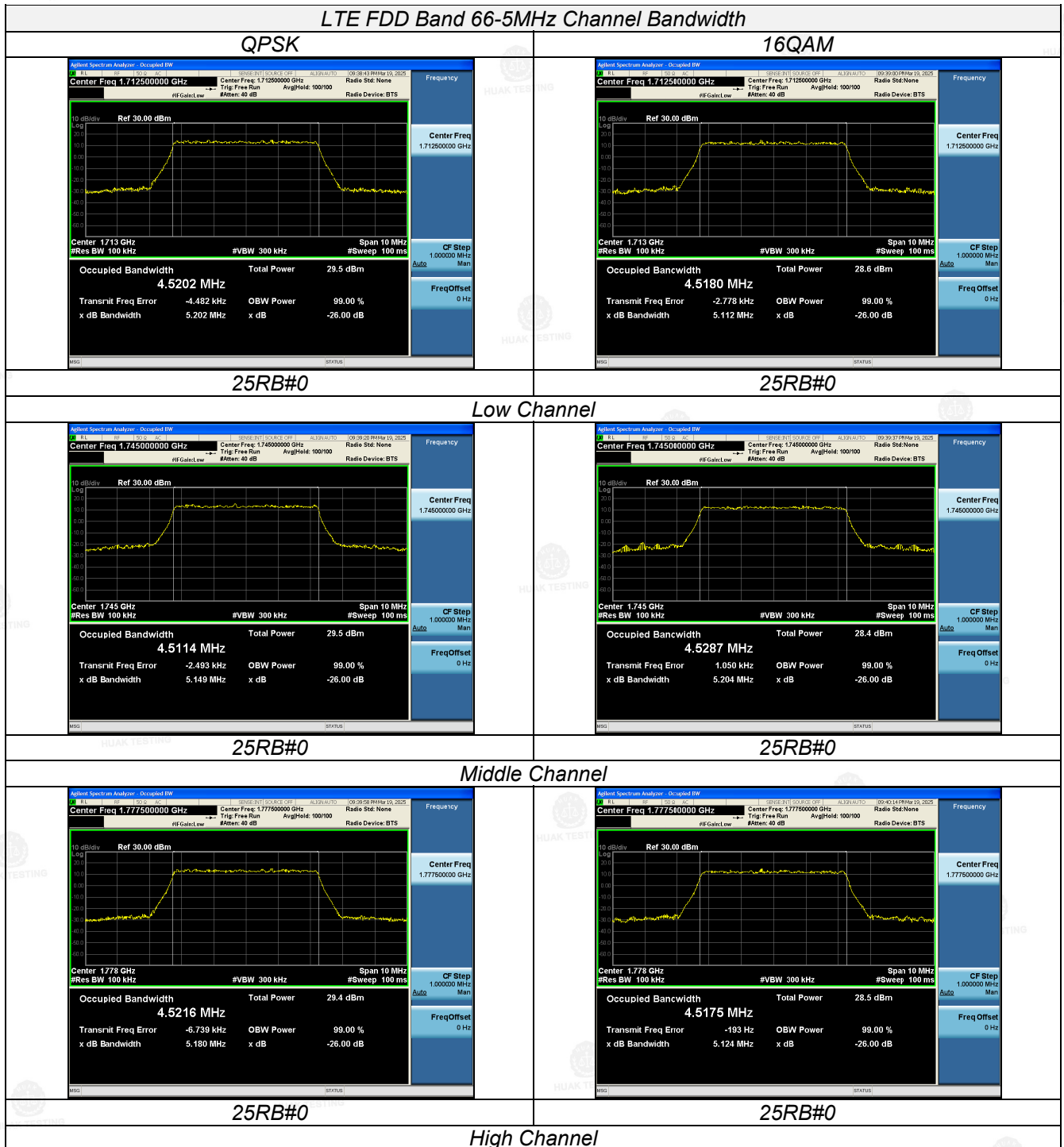


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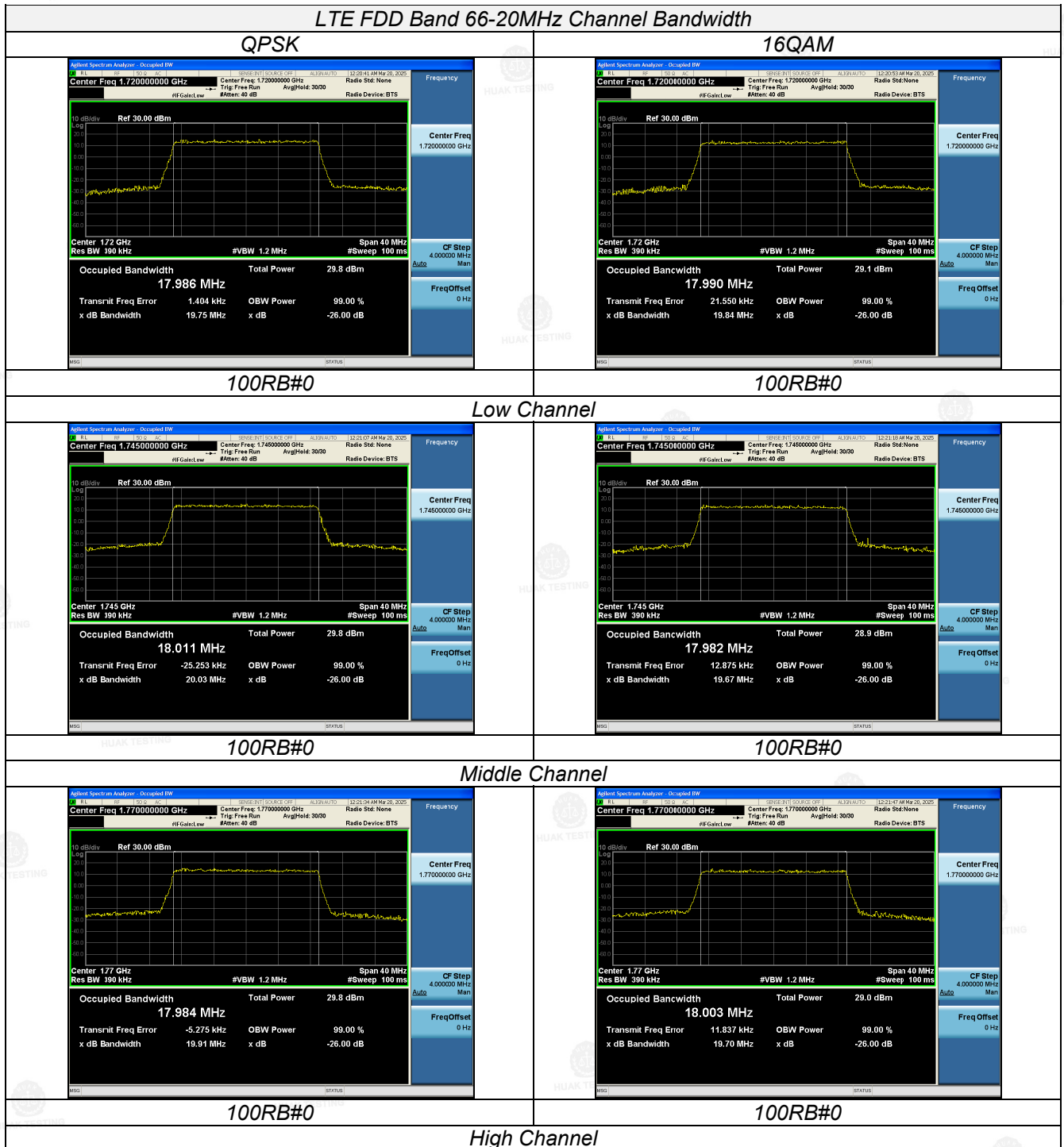
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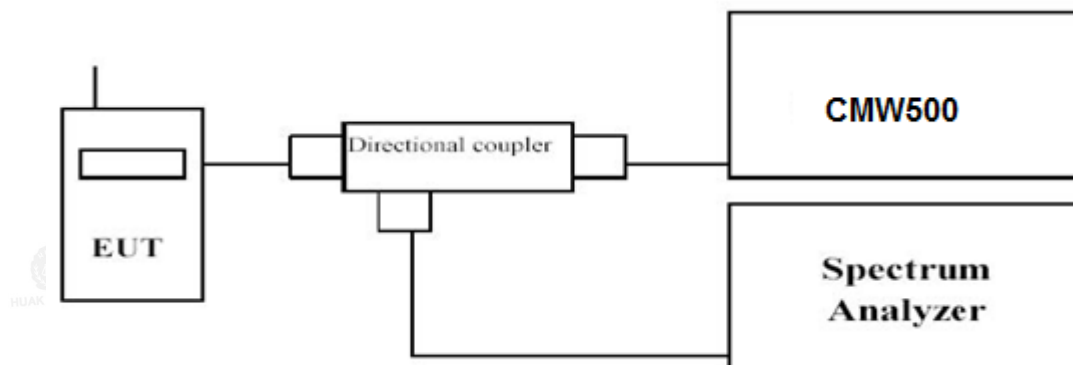
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3.4 Band Edge Compliance

LIMIT

According to §27.53 (h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

TEST CONFIGURATION



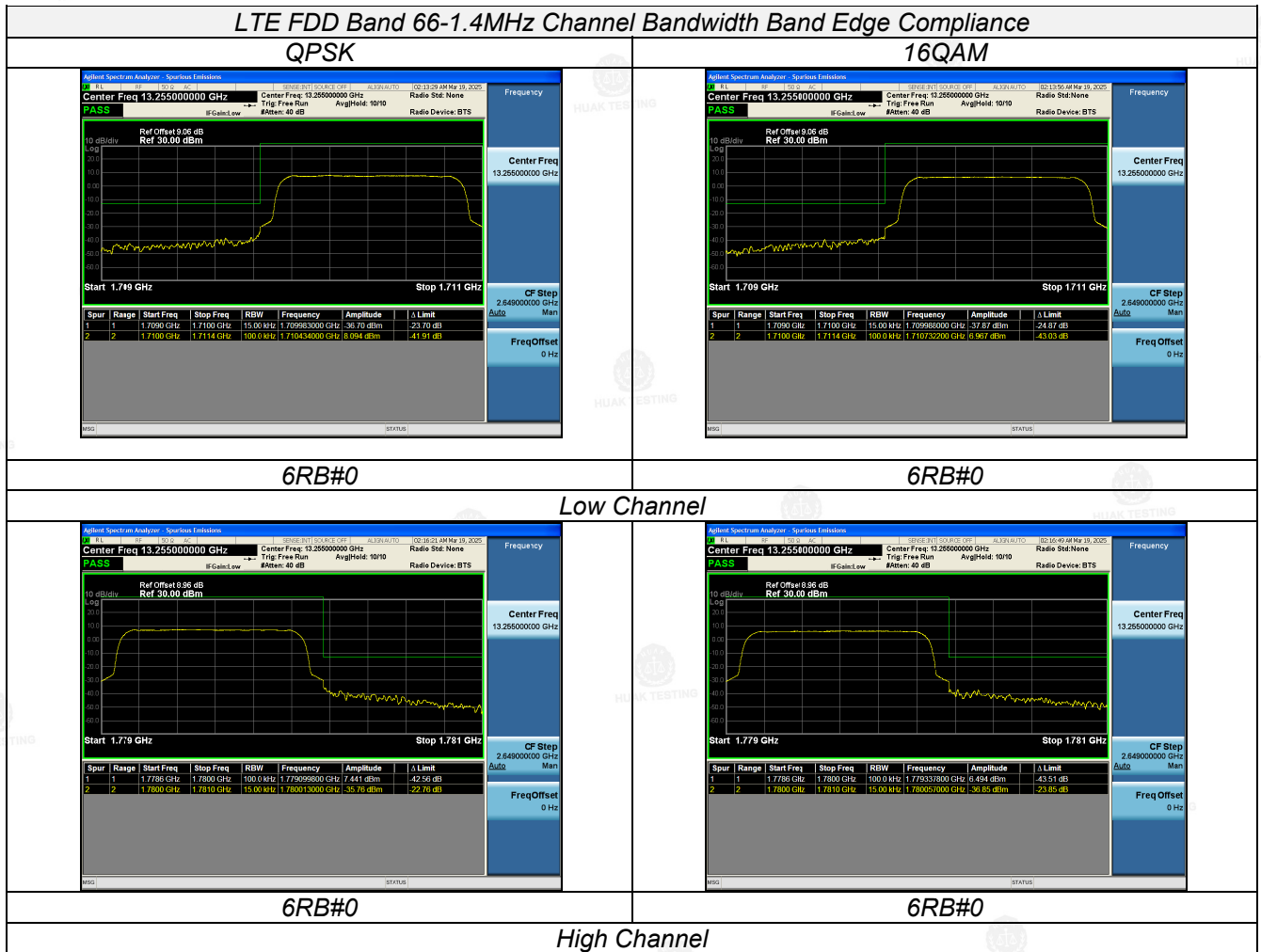
TEST PROCEDURE

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest and highest channels for each band and different modulation.
5. Measure Band edge using RMS (Average) detector by spectrum.

TEST RESULTS

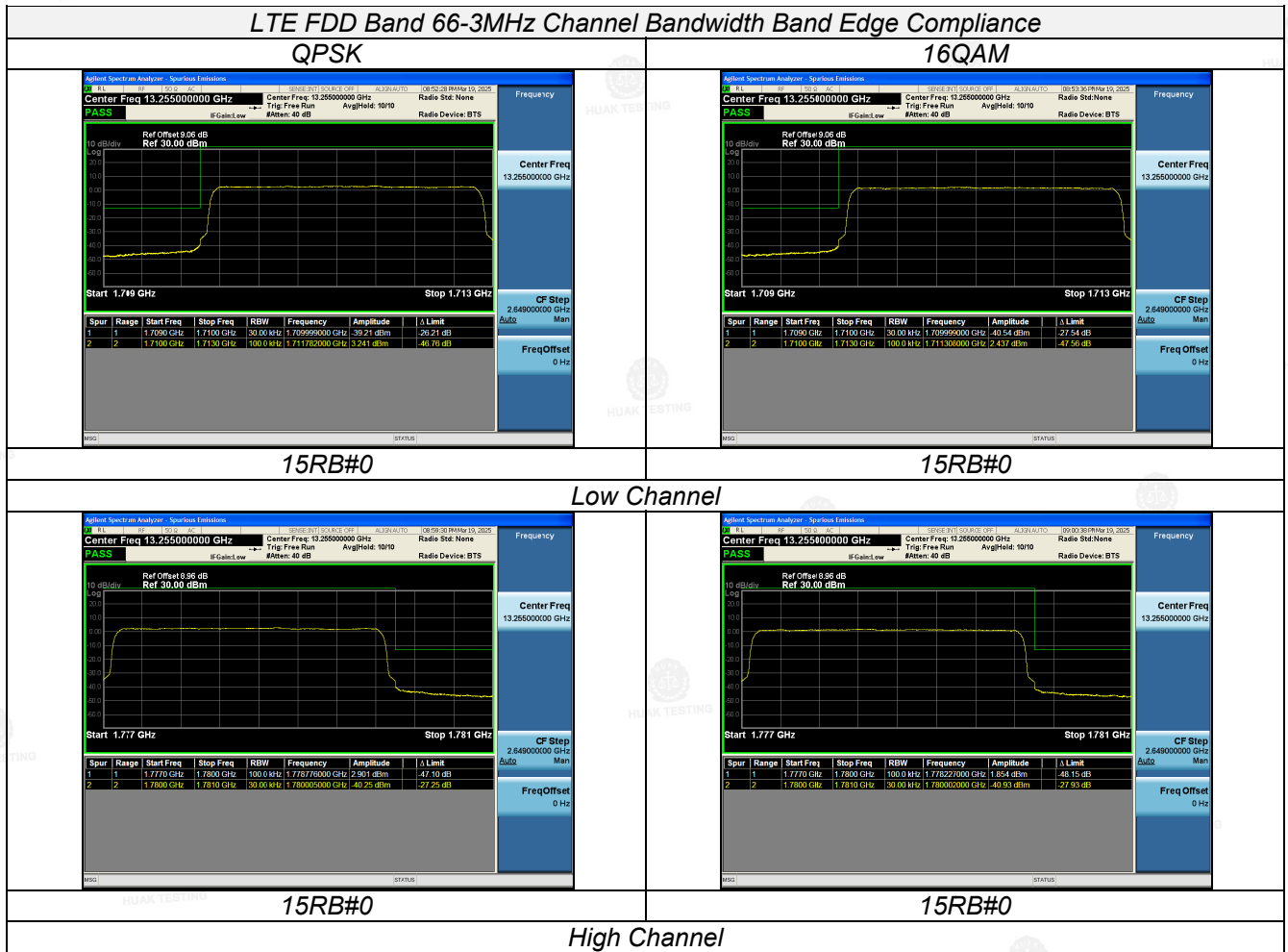
Remark:

1. *We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.*



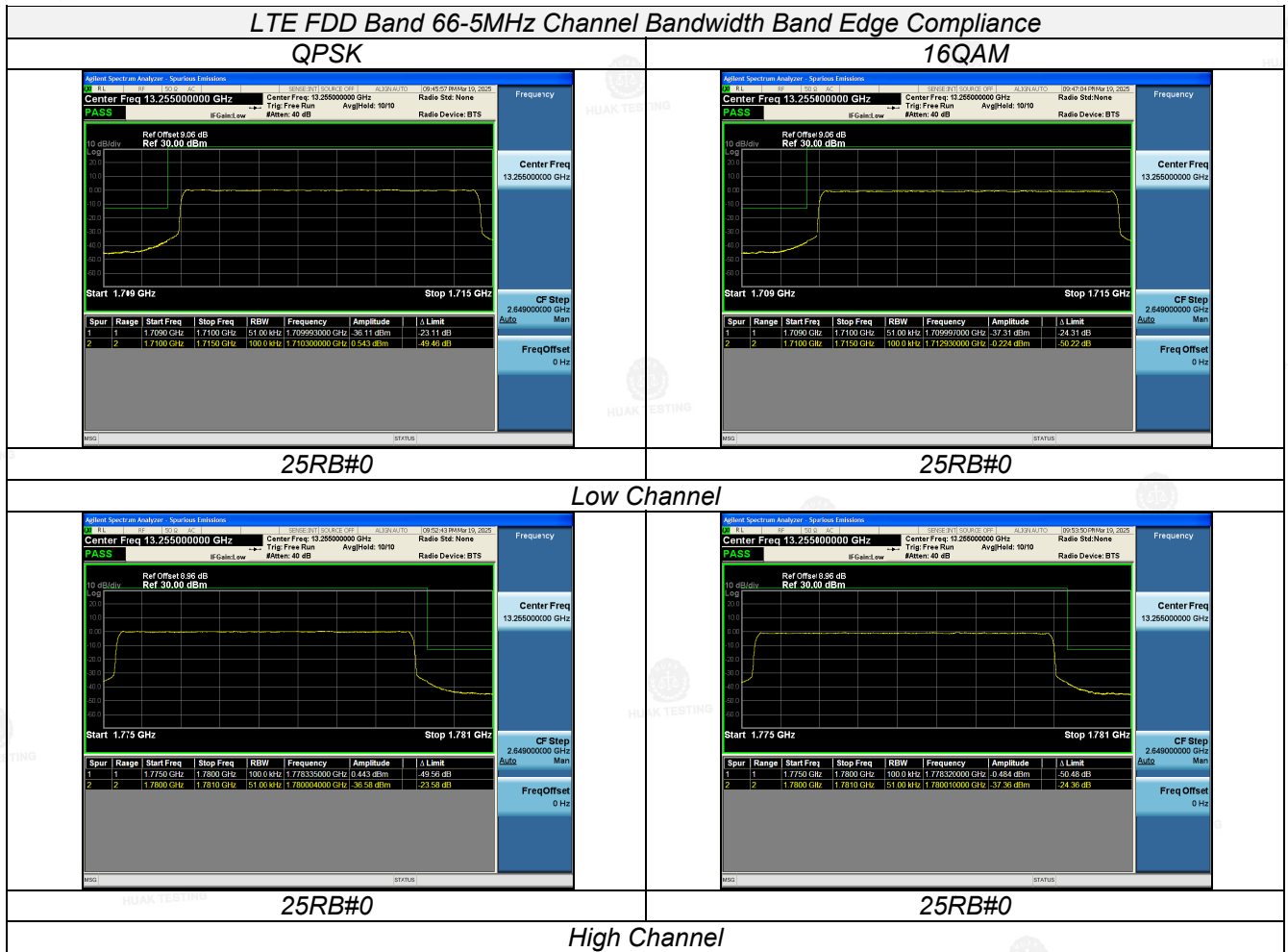
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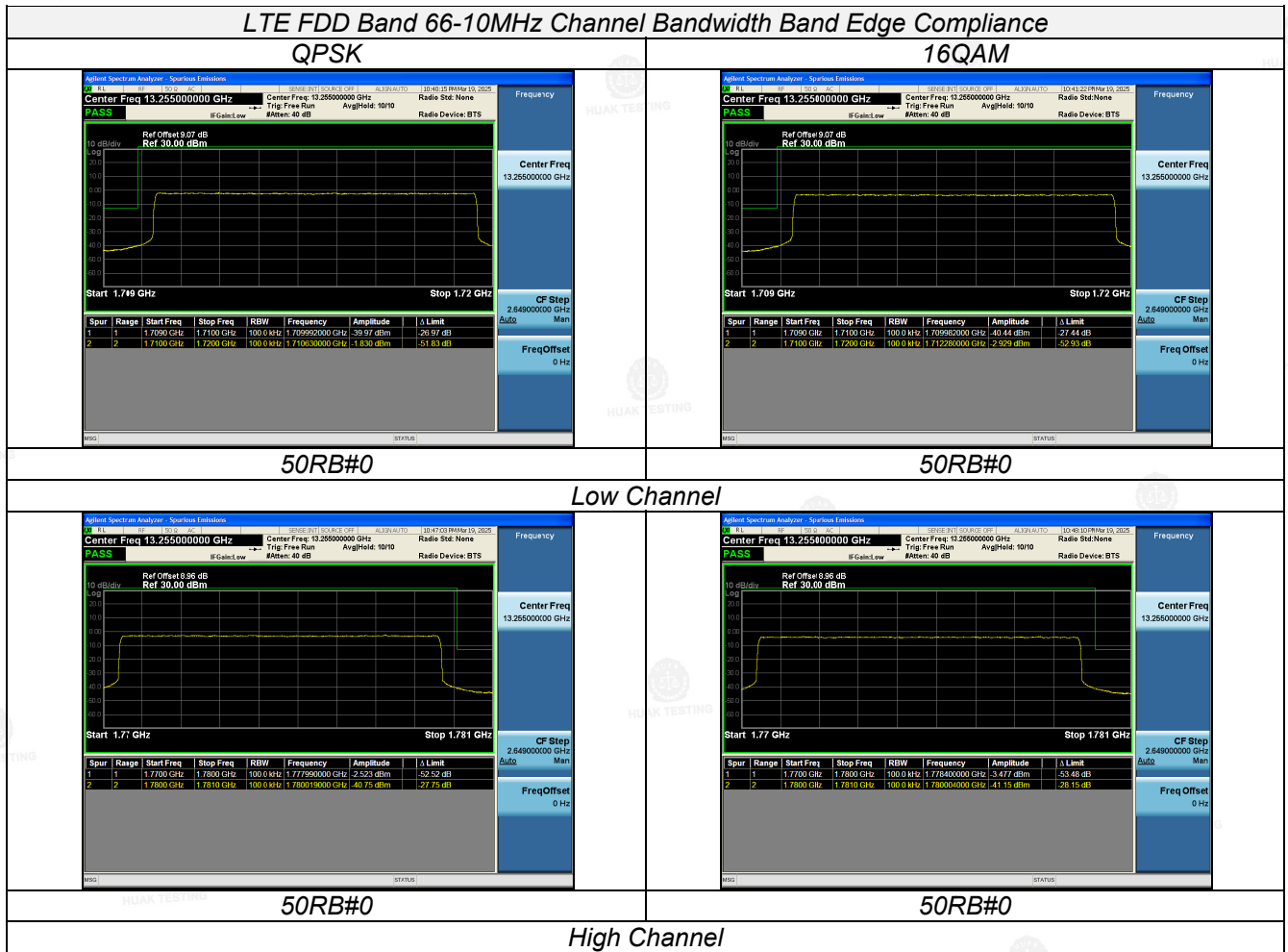
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LTE DDD Band 66-15MHz Channel Bandwidth Edge Compliance

QPSK

16QAM

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	1.7090 GHz	1.7100 GHz	150.0 kHz	1.709990000 GHz	-41.02 dBm	-28.02 dB
2	2	1.7100 GHz	1.7250 GHz	100.0 kHz	1.723410000 GHz	-3.699 dBm	-53.70 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	1.7090 GHz	1.7100 GHz	150.0 kHz	1.709990000 GHz	-41.33 dBm	-28.33 dB
2	2	1.7100 GHz	1.7250 GHz	100.0 kHz	1.722510000 GHz	-4.674 dBm	-54.07 dB

75RB#0

75RB#0

Low Channel

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	1.7650 GHz	1.7800 GHz	100.0 kHz	1.778300000 GHz	-4.228 dBm	-54.23 dB
2	2	1.7800 GHz	1.7810 GHz	150.0 kHz	1.780001000 GHz	-41.44 dBm	-28.44 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	1.7650 GHz	1.7800 GHz	100.0 kHz	1.766990000 GHz	-5.208 dBm	-55.21 dB
2	2	1.7800 GHz	1.7810 GHz	150.0 kHz	1.780001000 GHz	-41.94 dBm	-28.94 dB

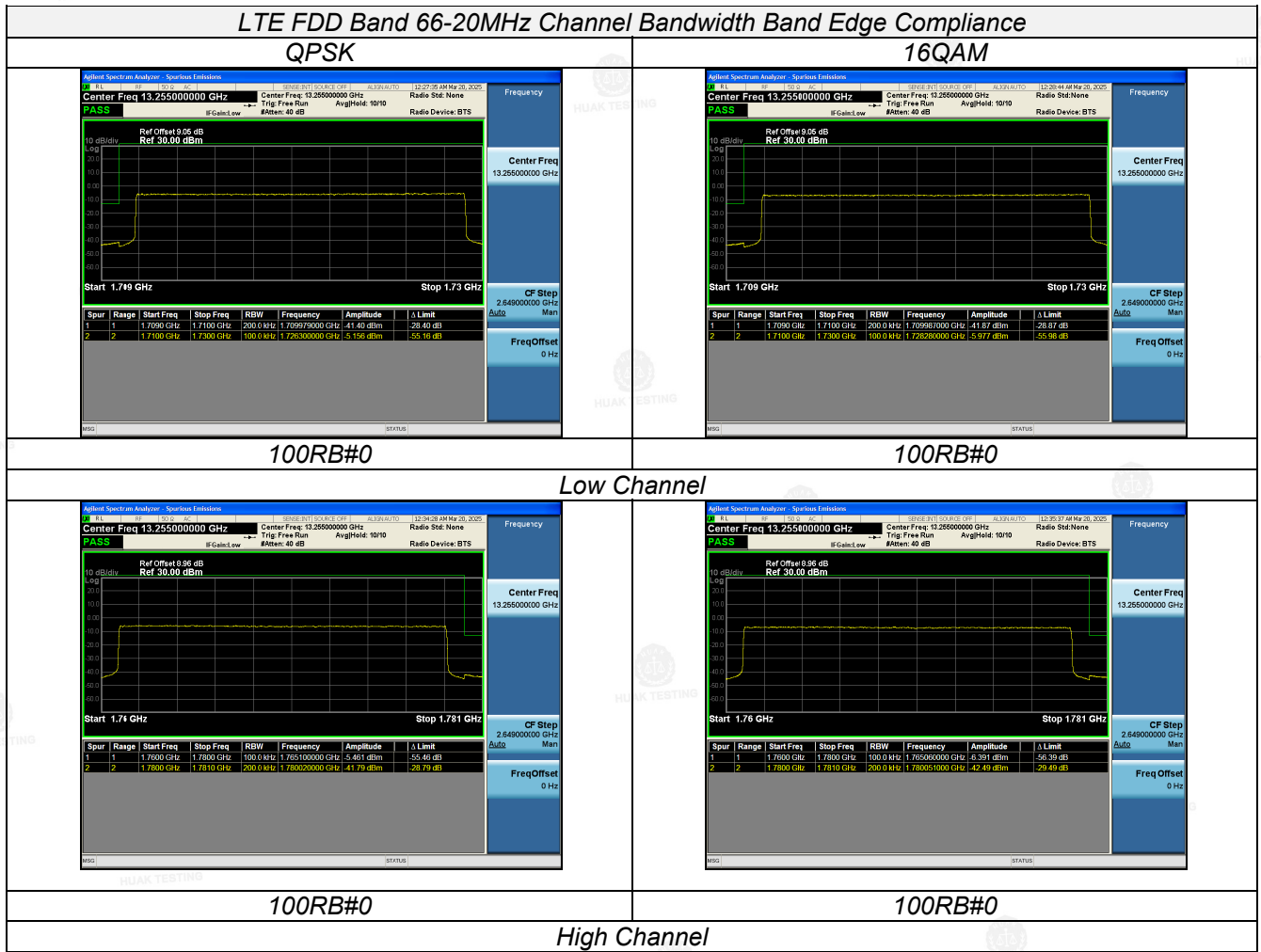
75RB#0

75RB#0

High Channel

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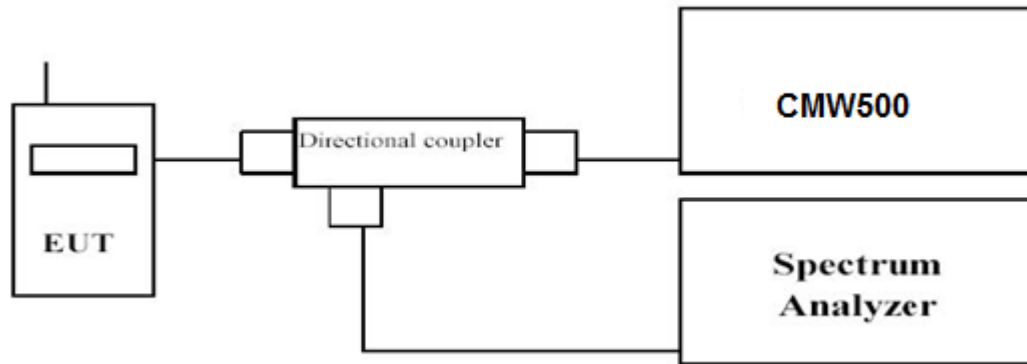
3.5 Spurious Emission

LIMIT

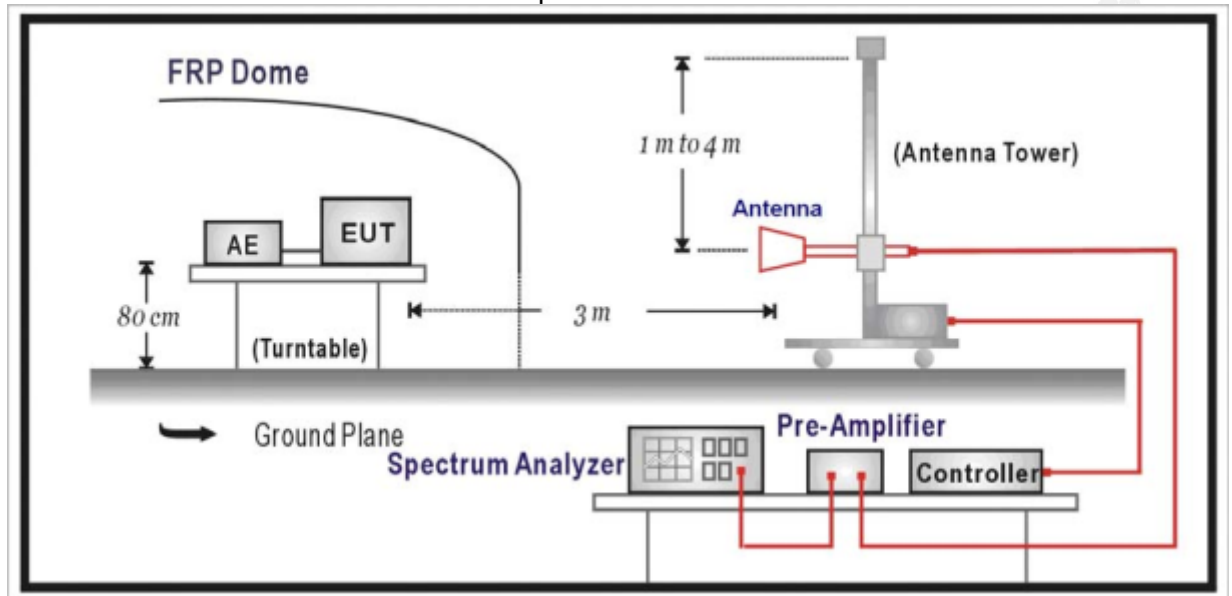
According to §27.53 (h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

TEST CONFIGURATION

Conducted Spurious Measurement:



Radiated Spurious Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

Conducted Spurious Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Coupler.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to 10^{th} harmonic.

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f. Please refer to following tables for test antenna conducted emissions.

Working Frequency	Sub range (GHz)	RBW	VBW	Sweep time (s)
LTE FDD Band 66	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~1	100KHz	300KHz	Auto
	1~26.5	1 MHz	3 MHz	Auto

Radiated Spurious Measurement:

- The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- The output of the test antenna shall be connected to the measuring receiver.
- The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- The maximum signal level detected by the measuring receiver shall be noted.
- The transmitter shall be replaced by a substitution antenna.
- The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- The substitution antenna shall be connected to a calibrated signal generator.
- If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24. The frequency range was checked up to 10th harmonic.
- Test site anechoic chamber refer to ANSI C63.

TEST RESULTS

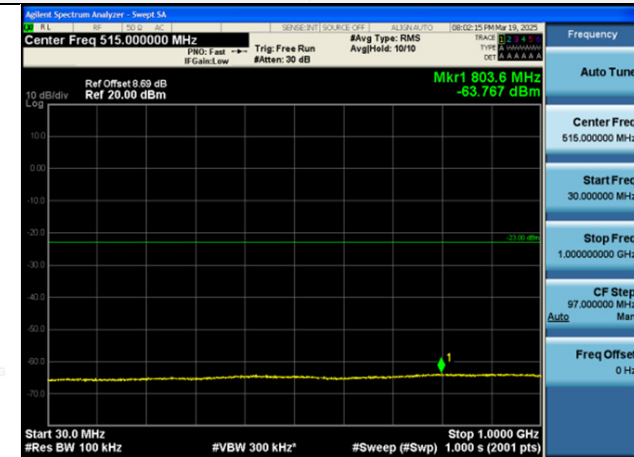
Remark:

- We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.

Conducted Measurement:

LTE FDD Band 66-1.4MHz Channel Bandwidth
Low Channel

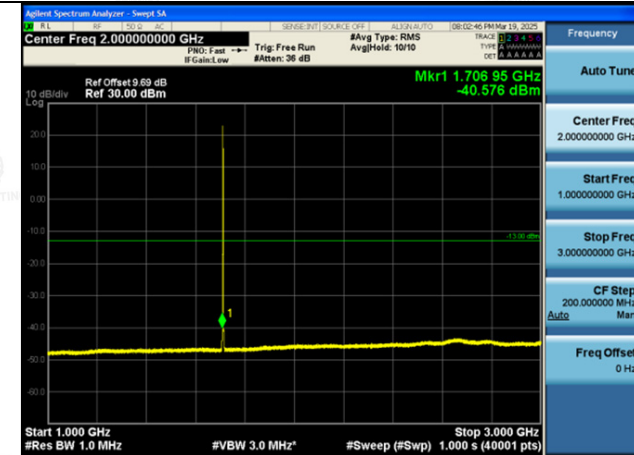
QPSK



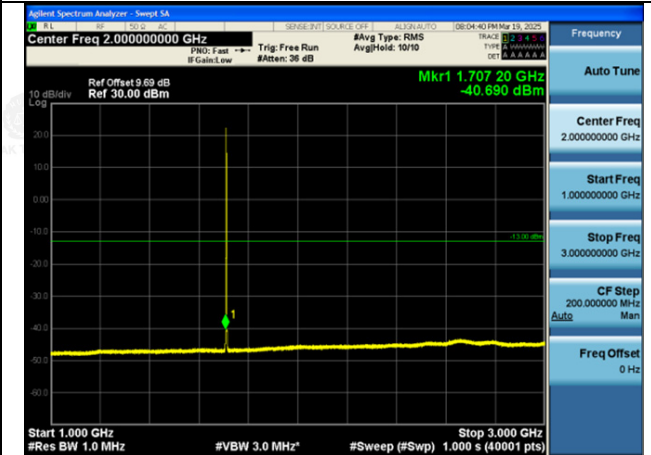
16QAM



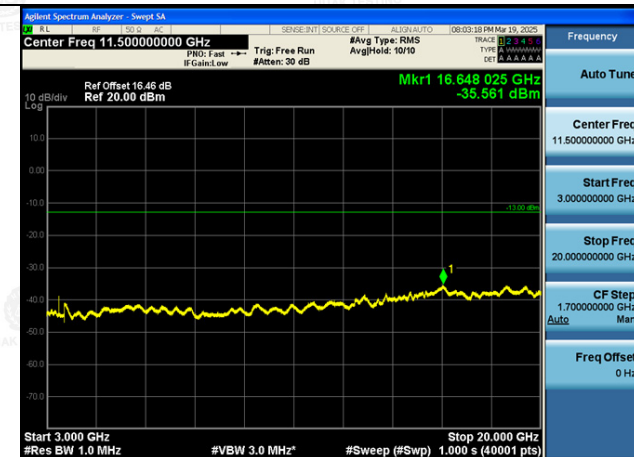
30MHz~1GHz



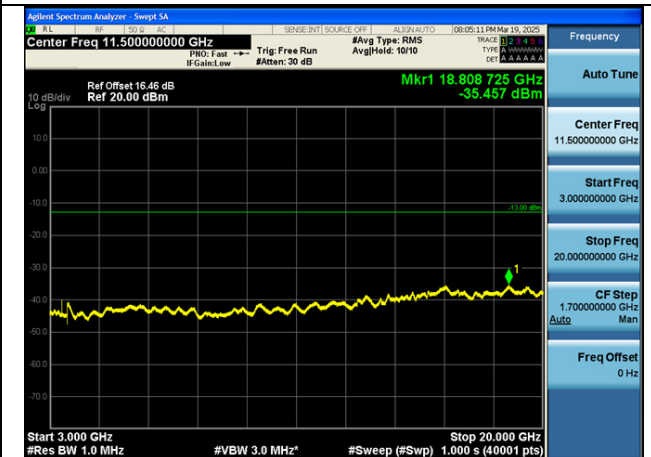
30MHz~1GHz



1GHz~3GHz



1GHz~3GHz

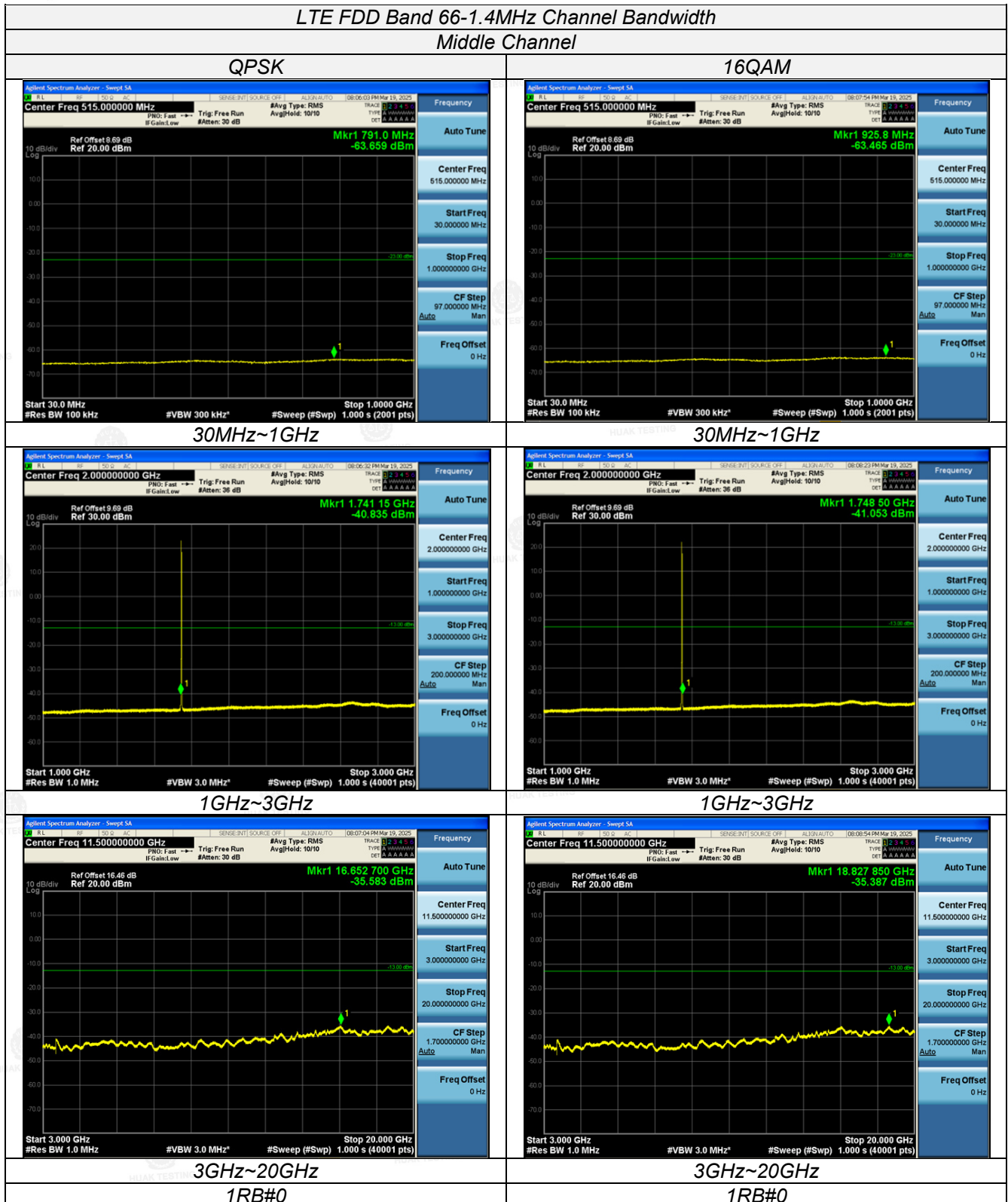


3GHz~20GHz

1RB#0

3GHz~20GHz

1RB#0



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