

APPENDIX A - TEST DATA OF CONDUCTED EMISSION

LTE Band 7

1 RF Power Output

Antenna Gain=-2.4dBi

| Antenna Ga | In=-2.4aBi | | | | | Canalizata |
|------------|----------------------------|------------|----|----------|-----------|----------------|
| Modulatian | Corrier fragues (NALL=) | III Charas | DW | DD C: | DD 0#==+ | Conducted |
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | power |
| | | | | 1 | 0 | (dBm) 22.39 |
| | | | | 1 | 24 | 22.39 |
| | 2502.5 | 20775 | | 12 | 6 | 22.39 |
| | | | | 25 | 0 | 22.21 |
| | | | | 1 | 0 | 22.50 |
| | | | | 1 | 24 | 22.50 |
| QPSK | 2535 | 21100 | 5 | 12 | 6 | 22.36 |
| | | | | 25 | 0 | 22.28 |
| | | | | 1 | 0 | 22.49 |
| | | | | 1 | 24 | 22.49 |
| | 2567.5 | 21425 | | 12 | 6 | 22.35 |
| | | | | 25 | 0 | 22.25 |
| | | | | 20 | U | Conducted |
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | power |
| Woddiation | Carrier frequency (Wif 12) | OL CHAING | | IND OIZO | TE OHOU | (dBm) |
| | | | | 1 | 0 | 22.35 |
| | | | | 1 | 24 | 22.35 |
| | 2502.5 | 20775 | | 12 | 6 | 21.52 |
| | | | | 25 | 0 | 21.49 |
| | | | 5 | 1 | 0 | 22.40 |
| | 0-0- | 0.4400 | | 1 | 24 | 22.40 |
| 16QAM | 2535 | 21100 | | 12 | 6 | 21.45 |
| | | | | 25 | 0 | 21.39 |
| | | | | 1 | 0 | 22.44 |
| | 0507.5 | 04.405 | | 1 | 24 | 22.44 |
| | 2567.5 | 21425 | | 12 | 6 | 21.48 |
| | | | | 25 | 0 | 21.43 |
| | | | | | | Conducted |
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | power |
| | | | | | | (dBm) |
| | | | | 1 | 0 | 22.38 |
| | 2502.5 | 20775 | | 1 | 24 | 22.38 |
| | 2JU2.J | 20113 | | 12 | 6 | 21.46 |
| | | | | 25 | 0 | 21.39 |
| | | | | 1 | 0 | 22.45 |
| 640AM | 2535 | 21100 | 5 | 1 | 24 | 22.45 |
| 64QAM | 2000 | 21100 | ٦ | 12 | 6 | 21.36 |
| | | | | 25 | 0 | 21.32 |
| | | | | 1 | 0 | 22.44 |
| | 2567 5 | 21425 | | 1 | 24 | 22.44 |
| | 2567.5 | | | 12 | 6 | 21.38 |
| | | | | 25 | 0 | 21.34 |

Fax:86-10-57996388

V1.0.0

Page number: 140 of 206



| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| | | | | 1 | 0 | 22.45 |
| | | | | 1 | 49 | 22.45 |
| | 2505 | 20800 | | 24 | 12 | 22.37 |
| | | | | 50 | 0 | 22.27 |
| | | | | 1 | 0 | 22.57 |
| | | | | 1 | 49 | 22.57 |
| QPSK | 2535 | 21100 | 10 | 24 | 12 | 22.43 |
| | | | | 50 | 0 | 22.35 |
| | | | | 1 | 0 | 22.51 |
| | | | | 1 | 49 | 22.51 |
| | 2565 | 21400 | | 24 | 12 | 22.37 |
| | | | | 50 | 0 | 22.27 |
| | | | | | | Conducted |
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | power |
| | | | | | | (dBm) |
| | | | | 1 | 0 | 22.41 |
| | 2505 | 20800 | | 1 | 49 | 22.41 |
| | 2505 | 20800 | | 24 | 12 | 21.58 |
| | | | | 50 | 0 | 21.55 |
| | | | 10 | 1 | 0 | 22.47 |
| 16QAM | 2535 | 21100 | | 1 | 49 | 22.47 |
| IOQAW | 2000 | 21100 | | 24 | 12 | 21.52 |
| | | | | 50 | 0 | 21.46 |
| | | | | 1 | 0 | 22.46 |
| | 2565 | 21400 | | 1 | 49 | 22.46 |
| | 2303 | 21400 | | 24 | 12 | 21.50 |
| | | | | 50 | 0 | 21.45 |
| | | | | | | Conducted |
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | power |
| | | | | 4 | | (dBm) |
| | | | | 1 | 0 | 22.44 |
| | 2505 | 20800 | | 1 | 49 | 22.44 |
| | | | | 24 | 12 | 21.52 |
| | | | | 50 | 0 | 21.45 |
| 64QAM | | | | 1 | 0 | 22.52 |
| | 2535 | 21100 | 10 | 1 | 49 | 22.52 |
| | | | | 24 | 12 | 21.43 |
| | | | | 50 | 0 | 21.39 |
| | | | | 1 | 0 | 22.46 |
| | 2565 | 21400 | | 1 | 49 | 22.46 |
| | | Z1400 | | 24 | 12 | 21.40 |
| | | | | 50 | 0 | 21.36 |



| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-----|---------|-----------|-----------------------|
| | | | | 1 | 0 | 22.49 |
| | | | | 1 | 74 | 22.49 |
| | 2507.5 | 20825 | | 40 | 18 | 22.41 |
| | | | | 75 | 0 | 22.31 |
| | | | | 1 | 0 | 22.60 |
| | | | | 1 | 74 | 22.60 |
| QPSK | 2535 | 21100 | 15 | 40 | 18 | 22.46 |
| | | | | 75 | 0 | 22.38 |
| | | | | 1 | 0 | 22.55 |
| | | | | 1 | 74 | 22.55 |
| | 2562.5 | 21375 | | 40 | 18 | 22.41 |
| | | | | 75 | 0 | 22.31 |
| | | | | - | - | Conducted |
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | power |
| | , , , | | | | | (dBm) |
| | | | | 1 | 0 | 22.45 |
| | 0507.5 | 00005 | | 1 | 74 | 22.45 |
| | 2507.5 | 20825 | | 40 | 18 | 21.62 |
| | | | | 75 | 0 | 21.59 |
| | | | | 1 | 0 | 22.50 |
| 160 4 14 | 2525 | 21100 | 15 | 1 | 74 | 22.50 |
| 16QAM | 2535 | | 15 | 40 | 18 | 21.55 |
| | | | | 75 | 0 | 21.49 |
| | | | | 1 | 0 | 22.50 |
| | 2562.5 | 21375 | | 1 | 74 | 22.50 |
| | 2302.5 | 21373 | | 40 | 18 | 21.54 |
| | | | | 75 | 0 | 21.49 |
| | | | | | | Conducted |
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | power |
| | | | | | | (dBm) |
| | | | | 1 | 0 | 22.48 |
| | 2507.5 | 20825 | | 1 | 74 | 22.48 |
| | 2007.0 | 20020 | | 40 | 18 | 21.56 |
| | | | | 75 | 0 | 21.49 |
| | | | | 1 | 0 | 22.55 |
| 64QAM | 2535 | 21100 | 15 | 1 | 74 | 22.55 |
| | | | . • | 40 | 18 | 21.46 |
| | | | | 75 | 0 | 21.42 |
| | 2562.5 | | | 1 | 0 | 22.50 |
| | | 21375 | | 1 | 74 | 22.50 |
| | | | | 40 | 18 | 21.44 |
| | | | | 75 | 0 | 21.40 |

Fax:86-10-57996388

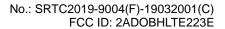
V1.0.0

Page number: 141 of 206

Page number: 142 of 206



| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|---------------------------|--------------|-----|---------|-----------|-----------------------|
| | | | | 1 | 0 | 22.63 |
| | | | | 1 | 99 | 22.63 |
| | 2510 | 20850 | | 50 | 25 | 22.55 |
| | | | | 100 | 0 | 22.45 |
| | | | | 1 | 0 | 22.71 |
| 0.0014 | 0505 | 04400 | -00 | 1 | 99 | 22.71 |
| QPSK | 2535 | 21100 | 20 | 50 | 25 | 22.57 |
| | | | | 100 | 0 | 22.49 |
| | | | | 1 | 0 | 22.68 |
| | 2500 | 04050 | | 1 | 99 | 22.68 |
| | 2560 | 21350 | | 50 | 25 | 22.54 |
| | | | | 100 | 0 | 22.44 |
| Madulation | Comica fraction at (MIII) | III. Channal | DW | DD 0: | DD 0#554 | Conducted power |
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | (dBm) |
| | | | | 1 | 0 | 22.59 |
| | 0540 | 20050 | | 1 | 99 | 22.59 |
| | 2510 | 20850 | | 50 | 25 | 21.76 |
| | | | | 100 | 0 | 21.73 |
| - | | | | 1 | 0 | 22.61 |
| 160 4 14 | 2525 | 21100 | 20 | 1 | 99 | 22.61 |
| 16QAM | 2535 | | 20 | 50 | 25 | 21.66 |
| | | | | 100 | 0 | 21.60 |
| | | | | 1 | 0 | 22.63 |
| | 2560 | 21350 | | 1 | 99 | 22.63 |
| | 2560 | 21330 | | 50 | 25 | 21.67 |
| | | | | 100 | 0 | 21.62 |
| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
| | | | | 1 | 0 | 22.62 |
| | 2510 | 20850 | | 1 | 99 | 22.62 |
| | 2510 | 20000 | | 50 | 25 | 21.70 |
| | | | | 100 | 0 | 21.63 |
| | | | | 1 | 0 | 22.66 |
| 640AM | 2535 | 21100 | 20 | 1 | 99 | 22.66 |
| 64QAM | 2555 | 21100 | 20 | 50 | 25 | 21.57 |
| | | | | 100 | 0 | 21.53 |
| | | | | 1 | 0 | 22.63 |
| | 2560 | 21350 | | 1 | 99 | 22.63 |
| | 2560 | 21350 | | 50 | 25 | 21.57 |
| | | | | 100 | 0 | 21.53 |



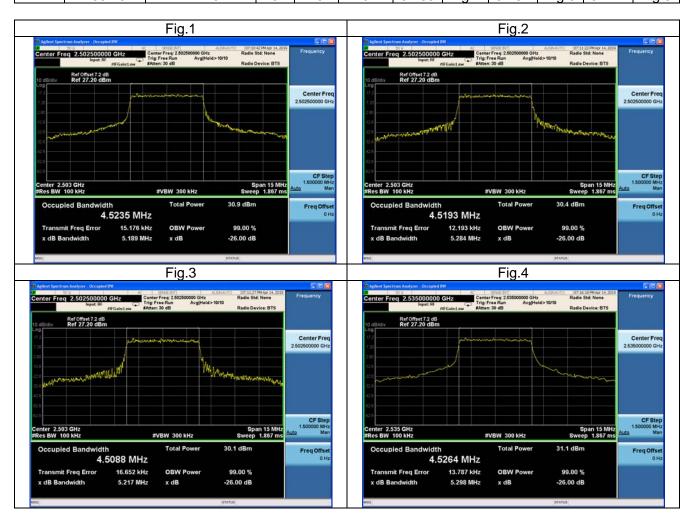


2 Occupied Bandwidth

Test result

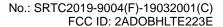
| Band f | | Channel(Low) | BW | RB | RB | I | Bandwi | dth of 999 | % Powe | er (MHz) | |
|--------|--------|--------------|-----|------|--------|--------------|--------|------------|--------|----------|-------|
| Danu | (MHz) | Charmer(Low) | DVV | Size | Offset | QPS | SK | 16-QAM | | 64-QAM | |
| 7 | 2502.5 | 20775 | 5 | 25 | 0 | 4.5235 | Fig.1 | 4.5193 | Fig.2 | 4.5088 | Fig.3 |
| 7 | 2535 | 21100 | 5 | 25 | 0 | 4.5264 | Fig.4 | 4.5246 | Fig.5 | 4.5119 | Fig.6 |
| 7 | 2567.5 | 21425 | 5 | 25 | 0 | 4.5249 Fig.7 | | 4.5229 | Fig.8 | 4.5156 | Fig.9 |

| Band | Carrier | Channal(Low) | BW | RB | RB | Bar | ndwidth | of -26dE (Mł | | nitter po | wer |
|------|--------------------|--------------|-----|------|--------|-------|---------|-----------------|-------|-----------|-------|
| Danu | frequency (MHz) | Channel(Low) | DVV | Size | Offset | QPSK | | 16-QAM | | 64-QAM | |
| 7 | 2502.5 | 20775 | 5 | 25 | 0 | 5.189 | Fig.1 | 5.284 | Fig.2 | 5.217 | Fig.3 |
| 7 | 2535 | 21100 | 5 | 25 | 0 | 5.298 | Fig.4 | 5.209 | Fig.5 | 5.311 | Fig.6 |
| 7 | 2567.5 | 21425 | 5 | 25 | 0 | 5.285 | Fig.7 | 5.267 | Fig.8 | 5.241 | Fig.9 |

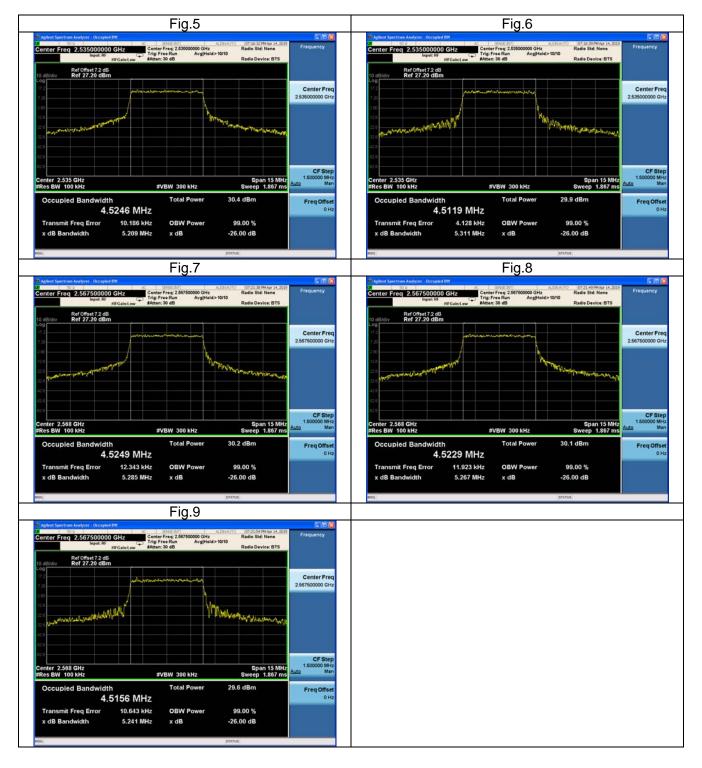


Fax:86-10-57996388

V1.0.0

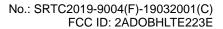






Fax:86-10-57996388

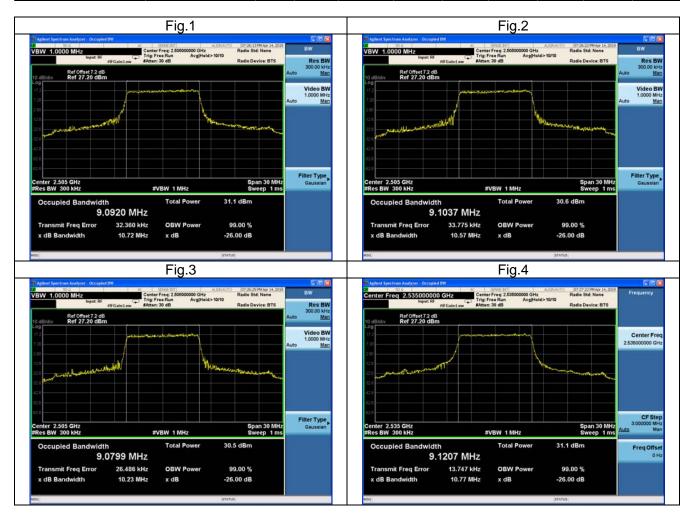
V1.0.0

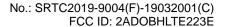




| Band | Carrier | Channel(Low) | BW | RB | RB | I | Bandwi | dth of 99% | % Powe | er (MHz) | |
|------|--------------------|--------------|-----|------|--------|--------|--------|------------|--------|----------|-------|
| Danu | frequency (MHz) | Charmer(Low) | DVV | Size | Offset | QPS | SK | C 16-QAM | | 64-QAN | |
| 7 | 2505 | 20800 | 10 | 50 | 0 | 9.0920 | Fig.1 | 9.1037 | Fig.2 | 9.0799 | Fig.3 |
| 7 | 2535 | 21100 | 10 | 50 | 0 | 9.1207 | Fig.4 | 9.0765 | Fig.5 | 9.0724 | Fig.6 |
| 7 | 2565 | 21400 | 10 | 50 | 0 | 9.0920 | Fig.7 | 9.0678 | Fig.8 | 9.0644 | Fig.9 |

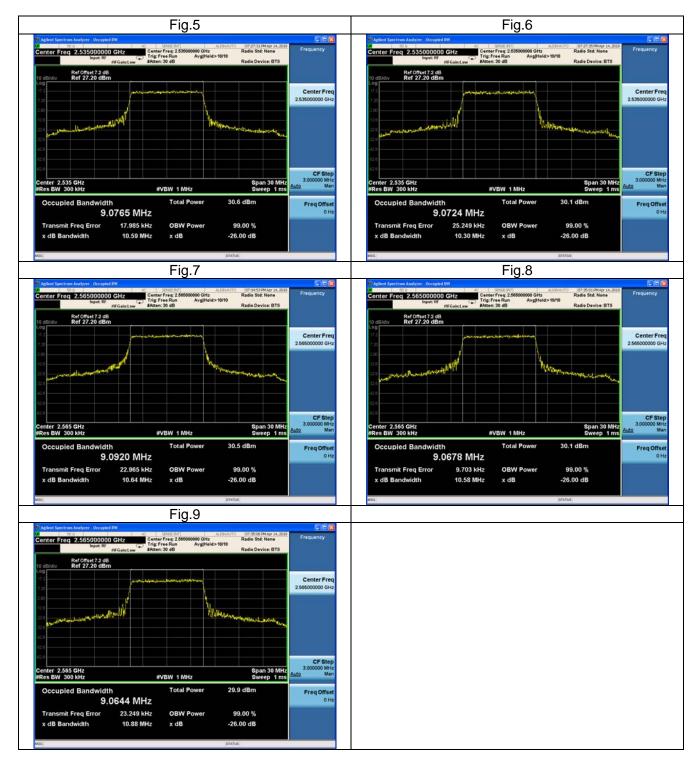
| Band | Carrier | Channel(Low) | BW | RB | RB | Bar | ndwidth | of -26dE (MI | | nitter po | wer |
|------|--------------------|--------------|-----|------|--------|-------|---------|-----------------|-------|-----------|-------|
| Danu | frequency (MHz) | Chamlei(Low) | DVV | Size | Offset | QPSK | | 16-QAM | | 64-QAM | |
| 7 | 2505 | 20800 | 10 | 50 | 0 | 10.72 | Fig.1 | 10.57 | Fig.2 | 10.23 | Fig.3 |
| 7 | 2535 | 21100 | 10 | 50 | 0 | 10.77 | Fig.4 | 10.59 | Fig.5 | 10.30 | Fig.6 |
| 7 | 2565 | 21400 | 10 | 50 | 0 | 10.64 | Fig.7 | 10.58 | Fig.8 | 10.88 | Fig.9 |



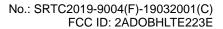


Page number: 146 of 206





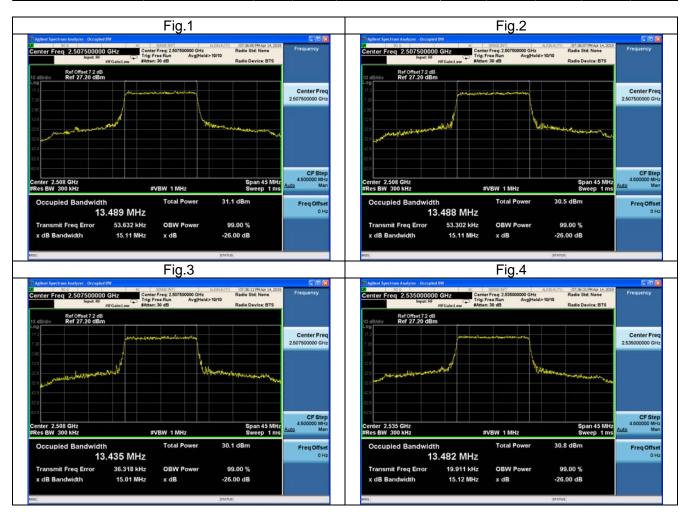
Tel: 86-10-5799 6183 Fax:86-10-57996388 V1.0.0

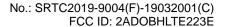




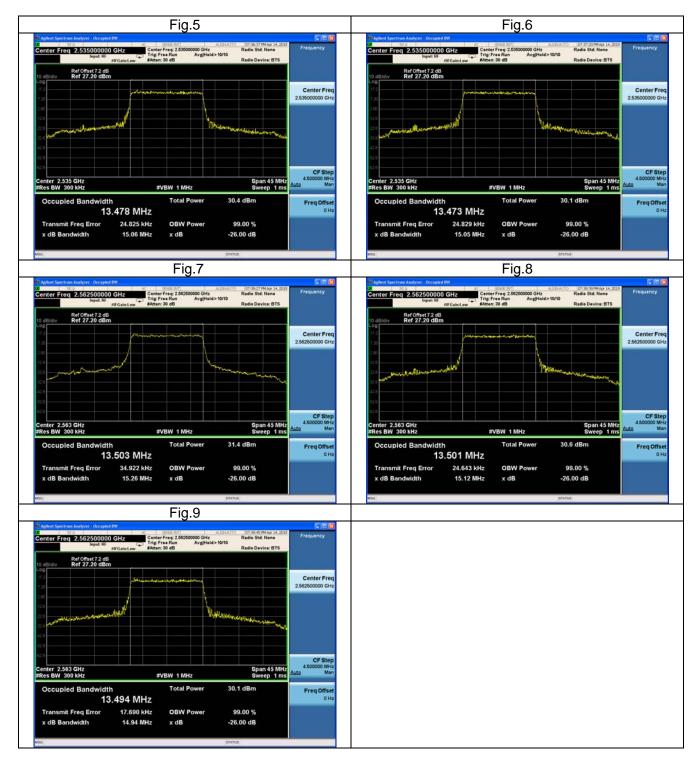
| Band | Carrier | Channel(Low) | BW | RB | RB | I | Bandwi | dth of 999 | % Powe | er (MHz) | |
|------|--------------------|--------------|-----|------|--------|--------|--------|------------|--------|----------|-------|
| Danu | frequency (MHz) | Charmer(Low) | DVV | Size | Offset | QPS | SK | 16-Q | AM | 64-Q | AM |
| 7 | 2507.5 | 20825 | 15 | 75 | 0 | 13.489 | Fig.1 | 13.488 | Fig.2 | 13.435 | Fig.3 |
| 7 | 2535 | 21100 | 15 | 75 | 0 | 13.482 | Fig.4 | 13.478 | Fig.5 | 13.473 | Fig.6 |
| 7 | 2562.5 | 21375 | 15 | 75 | 0 | 13.503 | Fig.7 | 13.501 | Fig.8 | 13.494 | Fig.9 |

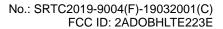
| Band | Carrier | Channel(Low) | BW | RB | RB | Bar | ndwidth | of -26dE (MI | | nitter po | wer |
|------|--------------------|--------------|-----|------|--------|-------|---------|-----------------|-------|-----------|-------|
| Danu | frequency (MHz) | Charmer(Low) | DVV | Size | Offset | QPSK | | 16-QAM | | 64-QAM | |
| 7 | 2507.5 | 20825 | 15 | 75 | 0 | 15.11 | Fig.1 | 15.11 | Fig.2 | 15.01 | Fig.3 |
| 7 | 2535 | 21100 | 15 | 75 | 0 | 15.12 | Fig.4 | 15.06 | Fig.5 | 15.05 | Fig.6 |
| 7 | 2562.5 | 21375 | 15 | 75 | 0 | 15.26 | Fig.7 | 15.12 | Fig.8 | 14.94 | Fig.9 |







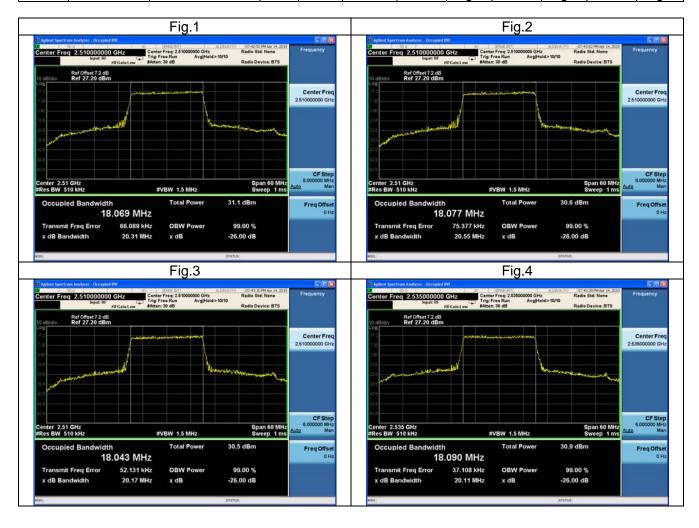


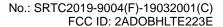




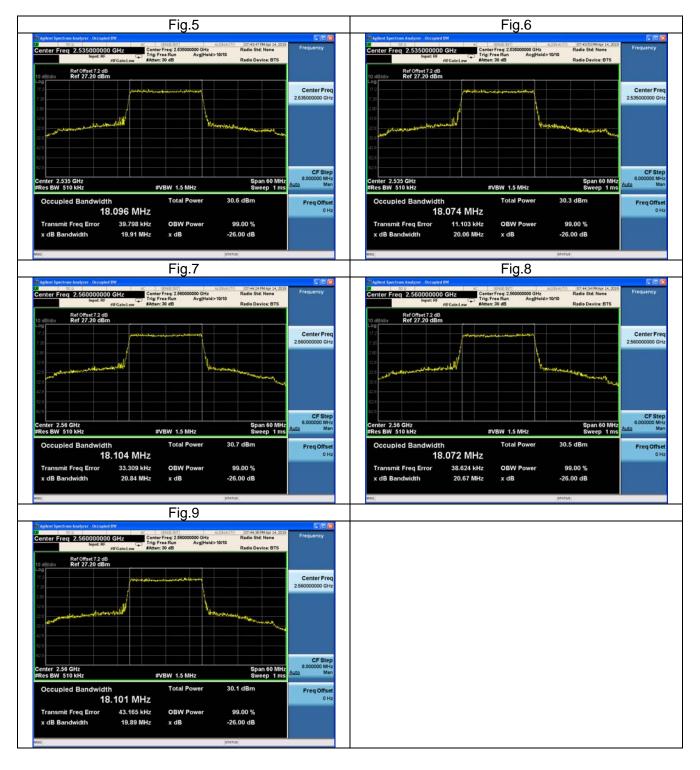
| Band | Carrier | Channel(Low) | BW | RB | RB | | Bandwi | dth of 99% | % Powe | er (MHz) | |
|------|--------------------|--------------|-----|------|--------|--------|------------|------------|--------|----------|-------|
| Danu | frequency (MHz) | Charmer(Low) | DVV | Size | Offset | QPS | PSK 16-QAM | | AM | 64-Q | AM |
| 7 | 2510 | 20850 | 20 | 100 | 0 | 18.069 | Fig.1 | 18.077 | Fig.2 | 18.043 | Fig.3 |
| 7 | 2535 | 21100 | 20 | 100 | 0 | 18.090 | Fig.4 | 18.096 | Fig.5 | 18.074 | Fig.6 |
| 7 | 2560 | 21350 | 20 | 100 | 0 | 18.104 | Fig.7 | 18.072 | Fig.8 | 18.101 | Fig.9 |

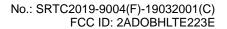
| Band fr | Carrier | Channel(Low) | DW | RB | RB | Bandwidth of -26dB transmitter power (MHz) | | | | | | |
|---------|--------------------|--------------|-----------------|------|--------|--|-------|-------|-------|--------|-------|--|
| Danu | frequency (MHz) | Chamlei(Low) | INAKLAW) L KW L | Size | Offset | QP | QPSK | | QAM | 64-QAM | | |
| 7 | 2510 | 20850 | 20 | 100 | 0 | 20.31 | Fig.1 | 20.55 | Fig.2 | 20.17 | Fig.3 | |
| 7 | 2535 | 21100 | 20 | 100 | 0 | 20.11 | Fig.4 | 19.91 | Fig.5 | 20.06 | Fig.6 | |
| 7 | 2560 | 21350 | 20 | 100 | 0 | 20.84 | Fig.7 | 20.67 | Fig.8 | 19.89 | Fig.9 | |







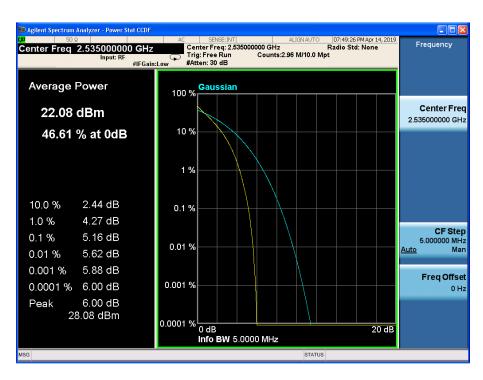






3 Peak-Average Ratio

Test result:



Peak-Average Ratio Plot(5MHz BW,QPSK,Band 7-mid Channel)



Peak-Average Ratio Plot(5MHz BW,16QAM,Band 7-mid Channel)

Page number: 151 of 206





Peak-Average Ratio Plot(5MHz BW,64QAM,Band 7-mid Channel)



Peak-Average Ratio Plot(10MHz BW,QPSK,Band 7-mid Channel)





Peak-Average Ratio Plot(10MHz BW,16QAM,Band 7-mid Channel)



Peak-Average Ratio Plot(10MHz BW,64QAM,Band 7-mid Channel)





Peak-Average Ratio Plot(15MHz BW,QPSK,Band 7-mid Channel)



Peak-Average Ratio Plot(15MHz BW,16QAM,Band 7-mid Channel)





Peak-Average Ratio Plot(15MHz BW,64QAM,Band 7-mid Channel)

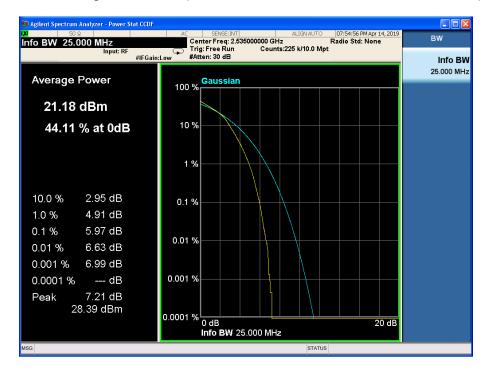


Peak-Average Ratio Plot(20MHz BW,QPSK,Band 7-mid Channel)





Peak-Average Ratio Plot(20MHz BW,16QAM,Band 7-mid Channel)



Peak-Average Ratio Plot(20MHz BW,64QAM,Band 7-mid Channel)

Page number: 157 of 206



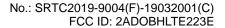
4 Spurious Emissions at antenna terminal

Test result

| | Band | Carrier | Channel | BW | RB RB Size Offset | RB | Conducted Spurious Plot |
|---|------|--------------------|---------|-----|----------------------|--------|-------------------------|
| | Danu | frequency (MHz) | (Low) | DVV | | Offset | QPSK |
| Ī | 7 | 2510 | 20850 | 20 | 1 | 0 | Fig.4 |



Fig.4





| Band | Carrier frequency (MHz) | Channel (Mid) | BW | RB Size | RB Offset | Conducted Spurious Plot | |
|-------|-------------------------------|------------------|----|------------|--------------|-------------------------|--|
| Dallu | | | | | | QPSK | |
| 7 | 2535 | 21100 | 20 | 1 | 0 | Fig.1 | |



Fig.1

| | Band | Carrier frequency (MHz) | Channel (High) | BW | RB Size | RB Offset | Conducted Spurious Plot | |
|---|------|-------------------------------|-------------------|----|------------|--------------|-------------------------|--|
| | Danu | | | | | | QPSK | |
| Ī | 7 | 2560 | 21350 | 20 | 1 | 0 | Fig.1 | |



Fax:86-10-57996388

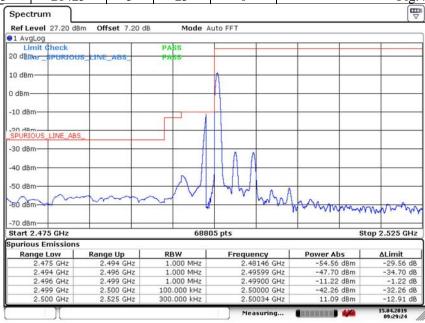
Page number: 158 of 206



5 Band Edges Compliance

Test result

| Б | Band | Carrier frequency (MHz) | Channel (Low) | BW | RB Size | RB Offset | Band EdgesPlot | |
|---|------|-------------------------------|---------------|----|------------|--------------|----------------|--|
| | anu | | | | | | QPSK | |
| | 7 | 2502.5 | 20775 | 5 | 1 | 0 | Fig.1 | |
| | 7 | 2502.5 | 20775 | 5 | 25 | 0 | Fig.2 | |
| | 7 | 2567.5 | 21425 | 5 | 1 | 24 | Fig.3 | |
| | 7 | 2567.5 | 21425 | 5 | 25 | 0 | Fig.4 | |



Date: 15.APR.2019 09:29:23

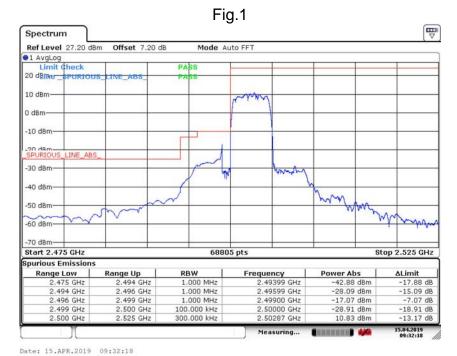
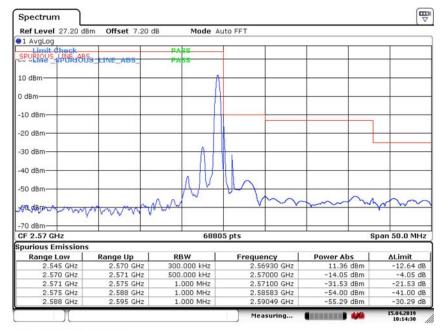


Fig.2

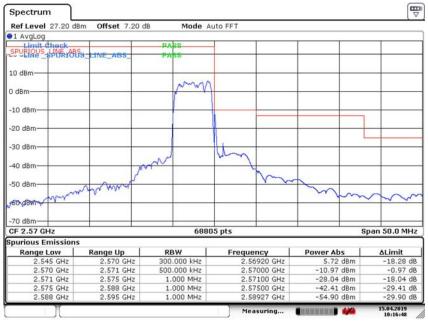
Page number: 159 of 206





Date: 15.APR.2019 10:14:29

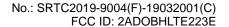
Fig.3



Date: 15.APR.2019 10:16:48

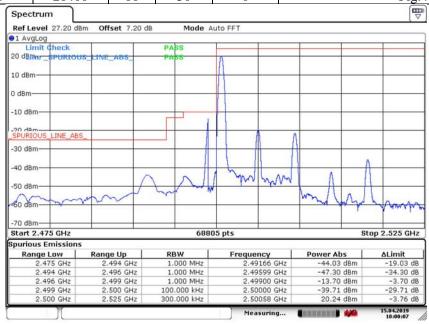
Fig.4

Page number: 160 of 206





| Band | Carrier frequency (MHz) | Channel (Low) | BW | RB Size | RB Offset | Band EdgesPlot | |
|------|-------------------------------|---------------|----|------------|--------------|----------------|--|
| Danu | | | | | | QPSK | |
| 7 | 2505 | 20800 | 10 | 1 | 0 | Fig.1 | |
| 7 | 2505 | 20800 | 10 | 50 | 0 | Fig.2 | |
| 7 | 2565 | 21400 | 10 | 1 | 49 | Fig.3 | |
| 7 | 2565 | 21400 | 10 | 50 | 0 | Fig.4 | |



Date: 15.APR.2019 10:00:07

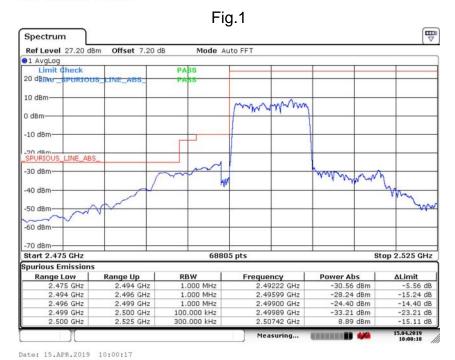
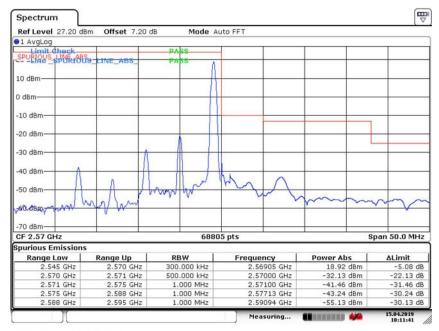


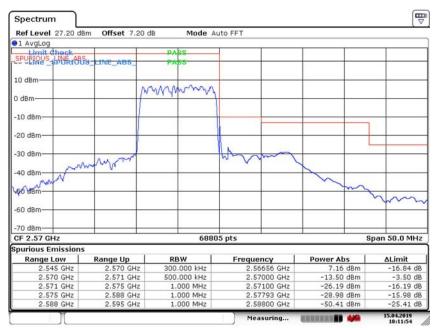
Fig.2





Date: 15.APR.2019 10:11:41

Fig.3



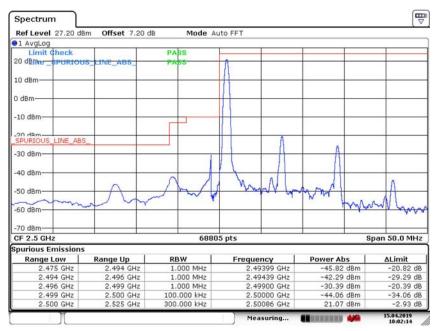
Date: 15.APR.2019 10:11:54

Fig.4

Page number: 162 of 206



| Band | Carrier frequency (MHz) | Channel (Low) | BW | RB Size | RB Offset | Band EdgesPlot | |
|-------|-------------------------------|---------------|----|------------|--------------|----------------|--|
| Dallu | | | | | | QPSK | |
| 7 | 2507.5 | 20825 | 15 | 1 | 0 | Fig.1 | |
| 7 | 2507.5 | 20825 | 15 | 75 | 0 | Fig.2 | |
| 7 | 2562.5 | 21375 | 15 | 1 | 74 | Fig.3 | |
| 7 | 2562.5 | 21375 | 15 | 75 | 0 | Fig.4 | |



Date: 15.APR.2019 10:02:14

Fig.1

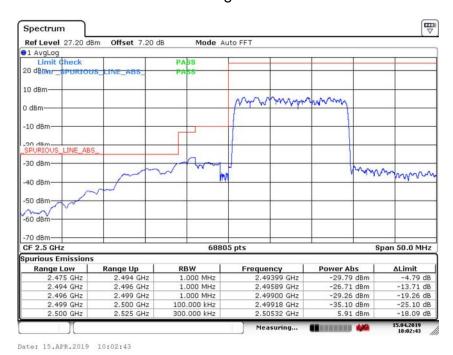
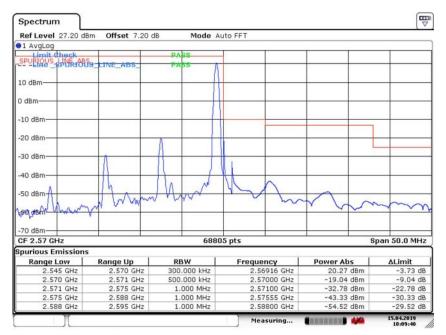


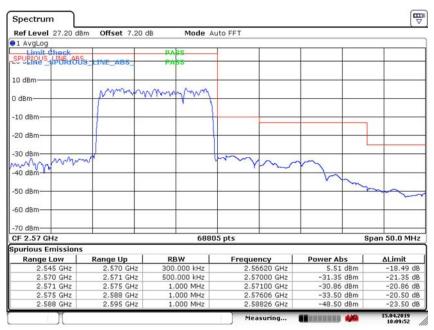
Fig.2





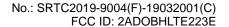
Date: 15.APR.2019 10:09:39

Fig.3



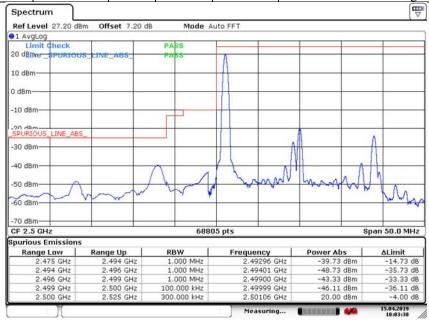
Date: 15.APR.2019 10:09:52

Fig.4





| Band | Carrier | Channel | I BW I | RB | RB | Band EdgesPlot | |
|------|--------------------|---------|--------|--------|------|----------------|--|
| Danu | frequency (MHz) | (Low) | | Offset | QPSK | | |
| 7 | 2510 | 20850 | 20 | 1 | 0 | Fig.1 | |
| 7 | 2510 | 20850 | 20 | 100 | 0 | Fig.2 | |
| 7 | 2560 | 21350 | 20 | 1 | 99 | Fig.3 | |
| 7 | 2560 | 21350 | 20 | 100 | 0 | Fig.4 | |



Date: 15.APR.2019 10:03:38

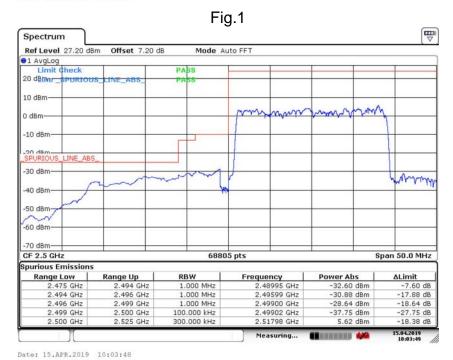
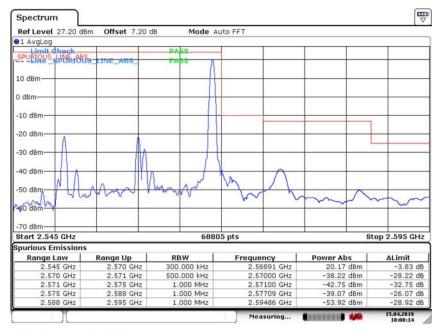


Fig.2

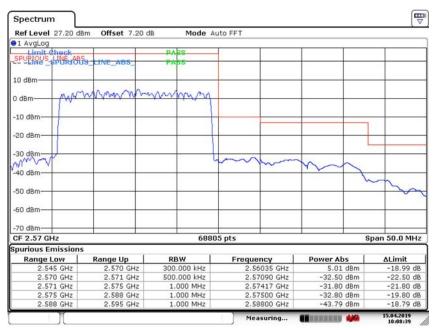
Page number: 165 of 206





Date: 15.APR.2019 10:08:13

Fig.3



Date: 15.APR.2019 10:08:38

Fig.4

Page number: 166 of 206

Page number: 167 of 206



6 Frequency Stability

Test result:

| Tomporaturo(°C) | Voltago | Test Result (ppm) Band7 Low Channel | | | | | | |
|-----------------|---------|-------------------------------------|--------|--------|--------|--|--|--|
| Temperature(°C) | Voltage | 5M | 10M | 15M | 20M | | | |
| 0 | NV | 0.021 | -0.008 | 0.011 | -0.002 | | | |
| +10 | NV | 0.018 | -0.023 | 0.007 | 0.009 | | | |
| +20 | NV | 0.022 | -0.021 | -0.009 | -0.008 | | | |
| +30 | NV | -0.007 | -0.002 | 0.014 | -0.006 | | | |
| +40 | NV | -0.005 | -0.003 | -0.014 | -0.015 | | | |
| +50 | NV | -0.010 | -0.002 | 0.000 | -0.005 | | | |
| +55 | NV | -0.007 | -0.011 | -0.002 | -0.003 | | | |
| +20 | LV | 0.008 | 0.013 | -0.001 | 0.010 | | | |
| +20 | HV | -0.025 | -0.002 | -0.002 | -0.014 | | | |

| Tomporoturo(°C) | Voltage | Test Result (ppm) Band7 High Channel | | | | | | |
|-----------------|---------|--------------------------------------|--------|--------|--------|--|--|--|
| Temperature(°C) | Voltage | 5M | 10M | 15M | 20M | | | |
| 0 | NV | -0.006 | -0.006 | -0.002 | 0.002 | | | |
| +10 | NV | -0.016 | -0.007 | -0.013 | -0.012 | | | |
| +20 | NV | 0.020 | -0.012 | -0.008 | -0.010 | | | |
| +30 | NV | 0.020 | -0.003 | 0.002 | -0.010 | | | |
| +40 | NV | -0.015 | -0.015 | -0.002 | 0.009 | | | |
| +50 | NV | -0.020 | -0.013 | -0.015 | -0.014 | | | |
| +55 | NV | 0.022 | 0.006 | -0.009 | 0.002 | | | |
| +20 | LV | -0.002 | 0.011 | 0.011 | 0.003 | | | |
| +20 | HV | 0.017 | 0.011 | 0.008 | 0.005 | | | |