ASPECT Chemical Results Summary
Response: South 4 Group Fire Port Neches, TX

| Date | Flight | Run | Location | Time (UTC) | Chemical | Max Concentration ppm |
|---|---|---|---|---|---|---|
| 27-Nov-19 | Flight 1 | 1 | Test | 1347 | Test | Test |
| | | 2 | Test | 1350 | Test | Test |
| | | 3 | SW perimeter of facility | 1407 | ND | None |
| | | 4 | SW Residential 1.8km SW | 1414 | ND | None |
| | | 5 | SW Residential 2.8km SW | 1426 | ND | None |
| | | 6 | Length of plume; upwind | 1429 | ND | None |
| | | 7 | 400m Downwind of fires | 1441 | ND | None |
| | | 8 | 100m Upwind of fires | 1449 | ND | None |
| | | 9 | 100m Downwind of fires | 1500 | ND | None |
| | | 10 | 100m Downwind of fires | 1511 | ND | None |
| | | 11 | Length of plume; upwind | 1515 | ND | None |
| | | 12 | 100m Downwind of fires | 1524 | ND | None |
| | Flight 2 | 1 | Test | 1741 | Test | Test |
| | | 2 | 100m Downwind of fires | 1751 | ND | None |
| | | 3 | 100m Downwind of fires | 1804 | ND | None |
| | | 4 | 100m Downwind of fires | 1825 | ND | None |
| | | 1 | Test | 2226 | Test | Test |
| | | 2 | Test | 2227 | Test | Test |
| | | 3 | Test | 2231 | Test | Test |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Flight 3 | 4 | Test | 2232 | Test | Test |
| | | 5 | 100m Downwind of fires | 2239 | ND | None |
| | | 6 | 100m Downwind of fires | 2249 | ND | None |
| | | 7 | 100m Downwind of fires | 2306 | ND | None |
| ND = No Detections | | | | | | |

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| Date | Flight | Run | Location | Time (UTC) | Chemical | Max Concentration ppm |
|---|---|---|---|---|---|---|
| 30-Nov-19 | Flight 6 | 1 | Test | 1340 | Test | Test |
| | | 2 | Test | 1342 | Test | Test |
| | | 3 | 100m Downwind of fires | 1354 | ND | None |
| | | 4 | 100m Downwind of fires | 1410 | ND | None |
| | | 5 | 100m Downwind of fires | 1424 | ND | None |
| | | 6 | 200m Downwind of fires | 1430 | ND | None |
| | | 7 | 300m East Perimeter Upwind | 1436 | ND | None |
| | | 8 | 200m East Perimeter Downwind | 1443 | ND | None |
| | | 9 | 0m Over Fires | 1449 | ND | None |
| | | 10 | Route 366 and Main St | 1500 | ND | None |
| | | 11 | Grigsby Ave and Main St | 1506 | ND | None |
| | Flight 7 | 1 | Test | 1515 | Test | Test |
| | | 2 | Test | 1516 | Test | Test |
| | | 3 | 100m Downwind of fires | 1525 | Test | Test |
| | | 4 | Along the plume | 1534 | Test | Test |
| | | 5 | Over the Neches River | 1542 | ND | None |
| | | 6 | Over the Nexhes River | 1551 | ND | None |
| ND = No Detections | | | | | | |

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Response: South 4 Group Fire Port Neches, TX

| Date | Flight | Run | Location | Time (UTC) | Chemical | Max Concentration ppm |
|---|---|---|---|---|---|---|
| 1-Dec-19 | Flight 1 | 1 | Test | 920 | Test | Test |
| | | 2 | Test | 922 | Test | Test |
| | | 3 | 100m Downwind of fires | 933 | ND | None |
| | | 4 | Canal | 941 | Isobutylene | 1 (est.) |
| | | 5 | Canal | 946 | ND | None |
| | | 6 | Canal | 952 | ND | None |
| | | 7 | Canal | 1001 | ND | None |
| | | 8 | Canal | 1009 | ND | None |
| | | 9 | Canal | 1038 | ND | None |
| | Flight 2 | 1 | Test | 1523 | Test | Test |
| | | 2 | 100m Downwind of fires | 1532 | ND | None |
| | | 3 | 500m Downwind of fires | 1537 | Isobutylene | 1.7 (est.) |
| | | 4 | 1000m Downwind of fires | 1542 | ND | None |
| | | 5 | Upwind over site | 1547 | Test | Test |
| | | 6 | 100m Upwind | 1552 | Test | Test |
| | | 7 | Canal | 1605 | Test | Test |
| | | 8 | Canal Near Neches River | 1611 | Test | Test |
| | | 9 | 500m Downwind of fires | 1621 | Isobutylene | 1.7 (est.) |
| ND = No Detections | | | | | | |

Chemical Detection Algorithms (Detection limits in ppm*m)

| | | |
|---|---|---|
| Acetic Acid (2.0) | Cumene (23.1) | Isoprene (6.5) |
| Acetone (5.6) | Diborane (5.0) | Isopropanol (8.5) |
| Acrolein (8.8) | 1,1-Dichloroethene (3.7) | Isopropyl Acetate (0.7) |
| Acrylonitrile (12.5) | Dichloromethane (6.0) | MAPP (3.7) |
| Acrylic Acid (3.5) | Dichlorodifluoromethane (0.7) | Methyl Acetate (1.0) |
| Allyl Alcohol (5.3) | Difluoroethane (0.8) | Methyl Ethyl Ketone (7.5) |
| Ammonia (2.0) | Difluoromethane (0.8) | Methanol (5.4) |
| Arsine (18.7) | Ethanol (6.3) | Methylbromide (60.0) |
| Bis-Chloroethyl Ether (1.7) | Ethyl Acetate (0.8) | Methylene Chloride (6.0) |
| Boron Tribromide (0.2) | Ethyl Formate (1.0) | Methyl Methacrylate (1.1) |
| Boron Triflouride (5.6) | Ethylene (5.0) | MTEB (3.0) |
| 1,3-Butadiene (5.0) | Formic Acid (5.0) | Naphthalene (3.8) |
| 1-Butene (12.0) | Freon 134a (0.8) | n-Butyl Acetate (3.8) |
| 2-Butene (18.8) | GA (Tabun) (0.7) | n-Butyl Alcohol (7.9) |
| Carbon Tetrachloride (0.2) | GB (Sarin) (0.5) | Nitric Acid (5.0) |
| Carbonyl Chloride (0.8) | Germane (1.5) | Nitrogen Trifluoride (2.0) |
| Carbon Tetraflouride (0.1) | Hexafluoroacetone (0.4) | Phosphorus Oxychloride (2.0) |
| Chlorodifluoromethane (0.6) | Isobutylene (15.0) | Propyl Acetate (0.7) |

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|---|
| Propylene (3.7) |
| Propylene Oxide (6.8) |
| Silicon Tetrafluoride (0.2) |
| Sulfur Dioxide (15.0) |
| Sulfur Hexafluoride (0.07) |
| Sulfur Mustard (6.0) |
| Nitrogen Mustard (2.5) |
| Phosgene (0.5) |
| Phosphine (8.3) |
| Tetrachloroethylene (10.0) |
| 1,1,1-Trichloroethane (1.9) |
| Trichloroethylene (2.7) |
| Trichloromethane (0.7) |
| Triethylamine (6.2) |
| Triethylphosphate (0.3) |
| Trimethylamine (9.3) |
| Trimethyl Phosphite (0.4) |
| Vinyl Acetate (0.6) |