

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035442.D
 Acq On : 18 Aug 2020 12:41
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/20/2020 11:06:13 AM

Quant Time: Aug 19 02:20:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 19 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1083174	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4921991	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	5323264m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3639932	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1627870	8.108	ppbv	99
3) Chlorodifluoromethane	2.99	51	1251623	9.216	ppbv #	92
4) Chloromethane	3.14	50	656445	9.278	ppbv	98
5) Vinyl Chloride	3.26	62	776914	9.188	ppbv	95
6) Bromomethane	3.47	94	688732	9.313	ppbv	99
7) Chloroethane	3.56	64	283690	9.107	ppbv	92
8) Dichlorotetrafluoroethane	3.19	85	2213973	8.613	ppbv #	57
9) Propene	3.01	41	496838	9.101	ppbv	99
10) Heptane	8.15	43	1346079	9.405	ppbv #	80
11) Trichlorofluoromethane	3.95	101	2850760	9.050	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2122461	9.042	ppbv #	77
13) Ethanol	3.61	45	116154	5.808	ppbv	100
14) Bromoethene	3.74	108	958243	9.237	ppbv #	95
15) Acetone	3.85	43	994875	7.980	ppbv #	83
16) 1,3-Butadiene	3.33	39	475557	9.406	ppbv #	68
17) tert-Butyl alcohol	4.30	59	1512676	9.387	ppbv	98
18) 1,1-Dichloroethene	4.29	96	962356	9.285	ppbv #	60
19) Isopropyl Alcohol	3.97	45	766463	8.920	ppbv #	98
20) Methylene Chloride	4.35	84	763175	7.587	ppbv #	63
21) Allyl Chloride	4.42	41	603600	9.527	ppbv #	81
22) trans-1,2-Dichloroethene	4.89	96	1026385	9.279	ppbv #	63
23) Vinyl Acetate	5.08	43	1706987	9.578	ppbv #	94
24) 1,1-Dichloroethane	5.02	63	1636318	9.200	ppbv #	94
25) Ethyl Acetate	5.69	43	2146356	8.847	ppbv #	93
26) Hexane	5.70	57	1207128	8.817	ppbv #	76
27) Carbon Disulfide	4.56	76	1980820	10.009	ppbv #	85
28) Methyl tert-Butyl Ether	5.04	73	2272155	9.085	ppbv	92
29) Chloroform	5.77	83	2533410	9.210	ppbv	98
30) Cyclohexane	7.15	84	1440790	9.486	ppbv #	62
31) cis-1,2-Dichloroethene	5.56	61	1352972	9.396	ppbv #	64
32) 1,1,1-Trichloroethane	6.53	97	2596121	10.070	ppbv #	89
34) 2-Butanone	5.25	43	1513404	9.203	ppbv #	74
35) Carbon Tetrachloride	7.04	117	2803733	10.710	ppbv	98
36) Benzene	6.91	78	3273057	9.061	ppbv #	93
37) 1,2-Dichloroethane	6.32	62	1553147	9.408	ppbv #	89
38) Trichloroethene	7.85	130	1852022	9.216	ppbv #	83
39) 1,2-Dichloropropane	7.64	63	1107366	9.301	ppbv #	83
40) 1,4-Dioxane	7.85	88	561095	8.652	ppbv #	31
41) Tetrahydrofuran	6.06	42	883519	9.740	ppbv #	64
42) Bromodichloromethane	7.81	83	2723874	9.860	ppbv #	96
43) Methyl Methacrylate	8.03	69	1370303	9.700	ppbv #	59

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	4173466	8.847	ppbv #	93
45) t-1,3-Dichloropropene	9.30	75	1567490	10.772	ppbv	96
46) cis-1,3-Dichloropropene	8.73	75	1865557	10.291	ppbv #	75
47) 1,1,2-Trichloroethane	9.50	97	1649001	9.273	ppbv	93
48) Dibromochloromethane	10.33	129	3051252	10.228	ppbv	100
49) Bromoform	13.08	173	3102985	10.797	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2242078	9.505	ppbv #	82
51) 2-Hexanone	10.16	43	1943730	9.775	ppbv #	80
52) Tetrachloroethene	11.25	164	2014703	9.143	ppbv #	83
53) Toluene	9.83	91	4266821	9.170	ppbv	98
54) 1,2-Dibromoethane	10.64	107	2689910	9.313	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	2374113	9.402	ppbv	97
57) Chlorobenzene	12.18	112	3753972	8.448	ppbv #	81
58) Ethyl Benzene	12.74	91	5619441	8.745	ppbv #	84
59) m/p-Xylene	13.03	91	9089160m	16.732	ppbv	
60) o-Xylene	13.73	91	4634337	8.778	ppbv	86
61) Styrene	13.56	104	3925590	9.202	ppbv #	90
62) Isopropylbenzene	14.70	105	7248670	8.377	ppbv #	87
63) 1,1,2,2-Tetrachloroethane	13.71	83	3235298	8.531	ppbv	97
64) n-propylbenzene	15.60	120	2427455	9.102	ppbv #	45
65) tert-Butylbenzene	16.78	119	7129850	8.479	ppbv #	82
66) Benzyl Chloride	17.03	91	2366484	11.700	ppbv #	89
67) sec-Butylbenzene	17.33	105	9023459	8.154	ppbv #	82
69) p-Isopropyltoluene	17.69	119	8256709	8.409	ppbv #	89
70) n-Butylbenzene	18.59	91	7827781	8.440	ppbv #	89
71) 2-Chlorotoluene	15.49	91	5516897	8.787	ppbv	77
72) 4-Ethyltoluene	15.88	105	6134996	8.855	ppbv #	91
73) 1,3,5-Trimethylbenzene	16.03	105	5720443	8.873	ppbv #	82
74) 1,2,4-Trimethylbenzene	16.80	105	5944134	8.486	ppbv #	92
75) 1,3-Dichlorobenzene	17.04	146	4642934	8.582	ppbv	92
76) 1,4-Dichlorobenzene	17.18	146	4735598	8.882	ppbv	91
77) 1,2-Dichlorobenzene	17.86	146	4649920	8.775	ppbv	91
78) Hexachloro-1,3-Butadiene	23.42	225	3565517	8.510	ppbv	98
79) Naphthalene	22.25	128	8520825	8.638	ppbv	97
80) Naphthalene, 2-methyl-	25.01	142	4127400	10.125	ppbv #	93
81) 1,2,4-Trichlorobenzene	21.98	180	5256660	8.840	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

