

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020321\
 Data File : VL036312.D
 Acq On : 4 Feb 2021 8:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/4/2021 5:15:20 PM

Quant Time: Feb 04 09:30:31 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL011321AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021

QLast Update : Thu Jan 14 16:13:38 2021

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.680	49	1530977	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.185	114	3496950	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.098	117	3280063m	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.433 95 2859090 10.53 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.050	85	2127817	10.37	ppbv	100
3) Chlorodifluoromethane	2.989	51	1868186	9.94	ppbv	97
4) Chloromethane	3.144	50	900692	9.69	ppbv	94
5) Vinyl Chloride	3.263	62	898590	10.22	ppbv	99
6) Bromomethane	3.481	94	484127	9.85	ppbv	98
7) Chloroethane	3.562	64	317804	10.49	ppbv	97
8) Dichlorotetrafluoroethane	3.192	85	2078068	10.45	ppbv	98
9) Propene	3.012	41	832148	9.29	ppbv	99
10) Heptane	8.134	43	2152758	9.69	ppbv	97
11) Trichlorofluoromethane	3.957	101	2194320	10.52	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.494	101	1366765	10.81	ppbv	96
13) Ethanol	3.610	45	122281	8.70	ppbv	93
14) Bromoethene	3.745	108	568516	9.87	ppbv	99
15) Acetone	3.854	43	1743113	9.30	ppbv	99
16) 1,3-Butadiene	3.333	39	866933	9.49	ppbv	96
17) tert-Butyl alcohol	4.298	59	1561501	10.09	ppbv	99
18) 1,1-Dichloroethene	4.298	96	597097	10.18	ppbv	92
19) Isopropyl Alcohol	3.976	45	1048002	9.27	ppbv	100
20) Methylene Chloride	4.349	84	522002	8.72	ppbv	93
21) Allyl Chloride	4.417	41	1015650	9.95	ppbv	97
22) trans-1,2-Dichloroethene	4.893	96	576431	10.64	ppbv	99
23) Vinyl Acetate	5.082	43	2354953	10.37	ppbv	98
24) 1,1-Dichloroethane	5.018	63	1650639	10.03	ppbv	99
25) Ethyl Acetate	5.687	43	3539388	9.40	ppbv	99
26) Hexane	5.693	57	1451902	9.26	ppbv	98
27) Carbon Disulfide	4.558	76	1484888	11.85	ppbv	99
28) Methyl tert-Butyl Ether	5.041	73	2030065	9.58	ppbv	97
29) Chloroform	5.764	83	2348637	10.47	ppbv	100
30) Cyclohexane	7.140	84	1232409	10.29	ppbv	99
31) cis-1,2-Dichloroethene	5.558	61	1521379	10.16	ppbv	94
32) 1,1,1-Trichloroethane	6.523	97	2301827	10.61	ppbv	99
34) 2-Butanone	5.253	43	2254448	8.75	ppbv	96
35) Carbon Tetrachloride	7.031	117	2318669	10.49	ppbv	98
36) Benzene	6.902	78	3062157	9.56	ppbv	98
37) 1,2-Dichloroethane	6.317	62	1903140	9.87	ppbv	100
38) Trichloroethene	7.844	130	1007652	8.49	ppbv	97
39) 1,2-Dichloropropane	7.626	63	1215336	9.34	ppbv	99
40) 1,4-Dioxane	7.844	88	408129	8.67	ppbv #	94
41) Tetrahydrofuran	6.057	42	1335551	8.97	ppbv	99
42) Bromodichloromethane	7.806	83	2534458	10.46	ppbv	96
43) Methyl Methacrylate	8.024	69	1361072	10.00	ppbv	96
44) 2,2,4-Trimethylpentane	7.883	57	5269645	8.95	ppbv	100
45) t-1,3-Dichloropropene	9.291	75	1462730	11.31	ppbv	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.719	75	1783503	10.73	ppbv	96
47) 1,1,2-Trichloroethane	9.491	97	1216411	9.77	ppbv	96
48) Dibromochloromethane	10.320	129	1983888	10.90	ppbv	99
49) Bromoform	13.056	173	1623683	10.68	ppbv	100
50) 4-Methyl-2-Pentanone	8.751	43	3569106	9.29	ppbv	100
51) 2-Hexanone	10.147	43	2929401	9.67	ppbv #	99
52) Tetrachloroethene	11.240	164	977600	8.28	ppbv	95
53) Toluene	9.819	91	3405582	9.50	ppbv	99
54) 1,2-Dibromoethane	10.626	107	1807582	9.80	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.143	131	1485955	10.15	ppbv	97
57) Chlorobenzene	12.159	112	2408088	9.36	ppbv	99
58) Ethyl Benzene	12.725	91	4569827	9.39	ppbv	99
59) m/p-Xylene	13.011	91	7835513m	18.73	ppbv	
60) o-Xylene	13.706	91	3653029	9.06	ppbv	100
61) Styrene	13.542	104	2571953	10.10	ppbv	100
62) Isopropylbenzene	14.683	105	5373957	8.97	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.696	83	2653592	8.84	ppbv	99
64) n-propylbenzene	15.577	120	1404727	9.54	ppbv	97
65) tert-Butylbenzene	16.760	119	4530712	8.92	ppbv	99
66) Benzyl Chloride	17.008	91	1627232	12.54	ppbv	99
67) sec-Butylbenzene	17.313	105	6501596	8.62	ppbv	100
69) p-Isopropyltoluene	17.670	119	5236945	8.76	ppbv	100
70) n-Butylbenzene	18.567	91	5537024	8.69	ppbv	99
71) 2-Chlorotoluene	15.471	91	4282456	9.09	ppbv	99
72) 4-Ethyltoluene	15.857	105	4131070	9.08	ppbv	99
73) 1,3,5-Trimethylbenzene	16.018	105	3948694	9.11	ppbv	98
74) 1,2,4-Trimethylbenzene	16.780	105	3976348	8.94	ppbv	98
75) 1,3-Dichlorobenzene	17.014	146	2128674	8.92	ppbv	99
76) 1,4-Dichlorobenzene	17.156	146	2102244	8.92	ppbv	99
77) 1,2-Dichlorobenzene	17.834	146	2063237	8.85	ppbv	99
78) Hexachloro-1,3-Butadiene	23.397	225	1360668m	7.30	ppbv	
79) Naphthalene	22.223	128	2460146	9.46	ppbv	100
80) Naphthalene,2-methyl-	24.992	142	770340	13.88	ppbv	99
81) 1,2,4-Trichlorobenzene	21.953	180	1387900m	9.14	ppbv	

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

