

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL101220\
 Data File : VL035756.D
 Acq On : 12 Oct 2020 9:45 am
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/14/2020 2:11:17 PM

Quant Time: Oct 13 00:16:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1223372	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4691651	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	4582205m	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3451347	10.05	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1746134	8.699	ppbv	98
3) Chlorodifluoromethane	2.97	51	1252437	9.516	ppbv	99
4) Chloromethane	3.12	50	671127	9.492	ppbv	100
5) Vinyl Chloride	3.24	62	796019	9.519	ppbv	97
6) Bromomethane	3.46	94	673509	9.527	ppbv	99
7) Chloroethane	3.54	64	294992	9.618	ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	2206358	9.062	ppbv	100
9) Propene	3.00	41	476350	9.968	ppbv	99
10) Heptane	8.12	43	1379035	10.352	ppbv	100
11) Trichlorofluoromethane	3.94	101	2620634	9.150	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1965063	9.204	ppbv	100
13) Ethanol	3.60	45	101758	8.635	ppbv	99
14) Bromoethene	3.73	108	880794	9.794	ppbv	100
15) Acetone	3.84	43	1106139	8.403	ppbv	99
16) 1,3-Butadiene	3.31	39	497880	10.338	ppbv	100
17) tert-Butyl alcohol	4.29	59	1485738	10.362	ppbv	100
18) 1,1-Dichloroethene	4.28	96	913306	9.770	ppbv	97
19) Isopropyl Alcohol	3.96	45	724243	10.114	ppbv	99
20) Methylene Chloride	4.33	84	755562	7.814	ppbv	97
21) Allyl Chloride	4.40	41	659445	10.335	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	952131	9.641	ppbv	98
23) Vinyl Acetate	5.06	43	1707373	10.589	ppbv	100
24) 1,1-Dichloroethane	5.00	63	1657112	9.436	ppbv	99
25) Ethyl Acetate	5.67	43	2267270	9.572	ppbv	100
26) Hexane	5.68	57	1256594	9.681	ppbv	99
27) Carbon Disulfide	4.54	76	2039194	10.540	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	2202888	10.706	ppbv	100
29) Chloroform	5.74	83	2502780	9.495	ppbv	99
30) Cyclohexane	7.12	84	1360637	10.625	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1342598	10.715	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	2442038	10.510	ppbv	100
34) 2-Butanone	5.24	43	1560356	10.055	ppbv	100
35) Carbon Tetrachloride	7.01	117	2506818	10.248	ppbv	98
36) Benzene	6.89	78	3160375	10.338	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1562583	9.807	ppbv	100
38) Trichloroethene	7.83	130	1543774	10.123	ppbv	99
39) 1,2-Dichloropropane	7.61	63	1090824	9.844	ppbv	98
40) 1,4-Dioxane	7.82	88	530103	10.461	ppbv	97
41) Tetrahydrofuran	6.04	42	881779	11.279	ppbv	100
42) Bromodichloromethane	7.79	83	2617249	10.197	ppbv	99
43) Methyl Methacrylate	8.01	69	1338013	11.005	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4245724	9.678	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1504817	12.259	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1783729	11.788	ppbv	98
47) 1,1,2-Trichloroethane	9.47	97	1529821	9.639	ppbv	99
48) Dibromochloromethane	10.30	129	2573035	10.652	ppbv	100
49) Bromoform	13.05	173	2288682	11.167	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2310130	10.192	ppbv	100
51) 2-Hexanone	10.13	43	1939594	10.621	ppbv #	100
52) Tetrachloroethene	11.22	164	1472615	10.017	ppbv	99
53) Toluene	9.81	91	3920420	10.875	ppbv	100
54) 1,2-Dibromoethane	10.61	107	2383202	10.028	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1988573	10.350	ppbv	98
57) Chlorobenzene	12.15	112	3282347	9.484	ppbv	100
58) Ethyl Benzene	12.71	91	5094197	11.077	ppbv	99
59) m/p-Xylene	13.00	91	8685584m	21.625	ppbv	
60) o-Xylene	13.70	91	4235415	10.425	ppbv	100
61) Styrene	13.53	104	3333714	11.867	ppbv	100
62) Isopropylbenzene	14.67	105	6374310	10.115	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	3113933	9.347	ppbv	99
64) n-propylbenzene	15.57	120	1949772	10.571	ppbv	98
65) tert-Butylbenzene	16.75	119	5864711	10.236	ppbv	99
66) Benzyl Chloride	17.00	91	2159324	12.439	ppbv	99
67) sec-Butylbenzene	17.30	105	7830546	9.897	ppbv	100
69) p-Isopropyltoluene	17.66	119	6595995	10.247	ppbv	99
70) n-Butylbenzene	18.56	91	6539019	9.865	ppbv	99
71) 2-Chlorotoluene	15.46	91	4895481	10.650	ppbv	100
72) 4-Ethyltoluene	15.85	105	5173221	10.749	ppbv	100
73) 1,3,5-Trimethylbenzene	16.00	105	4825659	10.610	ppbv	97
74) 1,2,4-Trimethylbenzene	16.77	105	4975006	9.703	ppbv	97
75) 1,3-Dichlorobenzene	17.00	146	3311014	9.459	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	3313436	9.903	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	3253148	9.840	ppbv	99
78) Hexachloro-1,3-Butadiene	23.39	225	1761176	9.655	ppbv	100
79) Naphthalene	22.21	128	4812854	9.842	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	1370601	11.883	ppbv	98
81) 1,2,4-Trichlorobenzene	21.95	180	2535962	10.007	ppbv	100

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

