

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090321\
 Data File : VL037515.D
 Acq On : 3 Sep 2021 10:23
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/10/2021 10:47:13 AM

Quant Time: Sep 04 04:20:57 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021

QLast Update : Tue Aug 17 02:13:47 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.658	49	1489954	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.166	114	4429417	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.076	117	4328501	10.000	ppbv	# 0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.404 95 2879213 9.363 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.047	85	2204064	9.219	ppbv	95
3) Chlorodifluoromethane	2.986	51	2922569	10.244	ppbv	100
4) Chloromethane	3.140	50	1133636	11.119	ppbv	94
5) Vinyl Chloride	3.253	62	1135071	10.867	ppbv	96
6) Bromomethane	3.472	94	605303	10.579	ppbv	100
7) Chloroethane	3.555	64	380606	10.676	ppbv	96
8) Dichlorotetrafluoroethane	3.185	85	2526461	10.237	ppbv	99
9) Propene	3.009	41	1058361	10.368	ppbv	98
10) Heptane	8.114	43	2646978	11.265	ppbv	99
11) Trichlorofluoromethane	3.947	101	2325659	10.364	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.478	101	1735907	10.542	ppbv	99
13) Ethanol	3.600	45	112968	11.372	ppbv	83
14) Bromoethene	3.735	108	790387	10.573	ppbv	98
15) Acetone	3.841	43	1403483	9.256	ppbv	100
16) 1,3-Butadiene	3.324	39	1064174	10.941	ppbv	99
17) tert-Butyl alcohol	4.279	59	1586615	11.454	ppbv	99
18) 1,1-Dichloroethene	4.282	96	800259	10.698	ppbv	98
19) Isopropyl Alcohol	3.960	45	971074	11.178	ppbv #	98
20) Methylene Chloride	4.340	84	676464	8.910	ppbv	97
21) Allyl Chloride	4.407	41	1283285	10.420	ppbv	95
22) trans-1,2-Dichloroethene	4.880	96	808721	10.837	ppbv	99
23) Vinyl Acetate	5.066	43	2468975m	11.047	ppbv	
24) 1,1-Dichloroethane	5.002	63	1562762	9.640	ppbv	99
25) Ethyl Acetate	5.668	43	4055195	10.534	ppbv	99
26) Hexane	5.680	57	1963260	10.431	ppbv	99
27) Carbon Disulfide	4.545	76	1979374	11.801	ppbv	99
28) Methyl tert-Butyl Ether	5.028	73	1742517	9.640	ppbv	100
29) Chloroform	5.745	83	2783730	10.436	ppbv	100
30) Cyclohexane	7.121	84	1664417	10.614	ppbv	99
31) cis-1,2-Dichloroethene	5.542	61	1876931	11.019	ppbv	99
32) 1,1,1-Trichloroethane	6.504	97	2726237	10.403	ppbv	99
34) 2-Butanone	5.237	43	1871665	10.348	ppbv	95
35) Carbon Tetrachloride	7.012	117	2809417	10.732	ppbv	99
36) Benzene	6.886	78	4098671	11.007	ppbv	99
37) 1,2-Dichloroethane	6.298	62	1972008	10.692	ppbv	99
38) Trichloroethene	7.825	130	1605985	10.512	ppbv	94
39) 1,2-Dichloropropane	7.603	63	1528432	10.682	ppbv	98
40) 1,4-Dioxane	7.825	88	381447	10.882	ppbv #	100
41) Tetrahydrofuran	6.044	42	1009544	11.586	ppbv	98
42) Bromodichloromethane	7.783	83	3006416	11.147	ppbv	97
43) Methyl Methacrylate	8.005	69	1483971	11.435	ppbv	99
44) 2,2,4-Trimethylpentane	7.864	57	6737793	10.752	ppbv	99
45) t-1,3-Dichloropropene	9.265	75	1396826	14.297	ppbv	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.693	75	1765276	12.953	ppbv	99
47) 1,1,2-Trichloroethane	9.465	97	1681208	10.874	ppbv	98
48) Dibromochloromethane	10.294	129	2669575	11.999	ppbv	99
49) Bromoform	13.034	173	2208992m	12.596	ppbv	
50) 4-Methyl-2-Pentanone	8.732	43	2760398	11.698	ppbv	100
51) 2-Hexanone	10.127	43	1354368	12.478	ppbv #	99
52) Tetrachloroethene	11.217	164	1509885	9.895	ppbv	96
53) Toluene	9.796	91	4806436	11.305	ppbv	99
54) 1,2-Dibromoethane	10.600	107	2399709	11.119	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.117	131	1806560	10.016	ppbv	95
57) Chlorobenzene	12.137	112	3456091	9.621	ppbv	99
58) Ethyl Benzene	12.699	91	6016758	10.017	ppbv	100
59) m/p-Xylene	12.986	91	10323108m	19.824	ppbv	
60) o-Xylene	13.680	91	4712503	9.696	ppbv	99
61) Styrene	13.516	104	2787857	11.042	ppbv	98
62) Isopropylbenzene	14.654	105	6739813	9.826	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.664	83	3492570	9.669	ppbv	98
64) n-propylbenzene	15.548	120	1797106	10.295	ppbv	98
65) tert-Butylbenzene	16.735	119	6051908	9.687	ppbv	98
66) Benzyl Chloride	16.979	91	423667	14.992	ppbv	100
67) sec-Butylbenzene	17.284	105	8369518	9.588	ppbv	99
69) p-Isopropyltoluene	17.638	119	7088482	9.965	ppbv	100
70) n-Butylbenzene	18.535	91	6957958	10.236	ppbv	99
71) 2-Chlorotoluene	15.442	91	4983395	9.907	ppbv	100
72) 4-Ethyltoluene	15.828	105	5700779	9.861	ppbv	98
73) 1,3,5-Trimethylbenzene	15.982	105	5213987	9.689	ppbv	99
74) 1,2,4-Trimethylbenzene	16.751	105	5504712	9.626	ppbv	92
75) 1,3-Dichlorobenzene	16.982	146	3454249	10.036	ppbv	98
76) 1,4-Dichlorobenzene	17.124	146	3371618	9.724	ppbv	98
77) 1,2-Dichlorobenzene	17.802	146	3355028	9.899	ppbv	100
78) Hexachloro-1,3-Butadiene	23.358	225	2548072	9.042	ppbv	100
79) Naphthalene	22.178	128	4434672	11.589	ppbv	97
80) Naphthalene,2-methyl-	24.956	142	1382543	12.968	ppbv	92
81) 1,2,4-Trichlorobenzene	21.908	180	2661364	11.083	ppbv	97

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

