

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037124.D
 Acq On : 3 Jun 2021 8:43
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 6/7/2021 3:01:38 PM

Quant Time: Jun 04 06:51:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1429646	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4302576	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	4075341m	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	3133471	10.24	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2147528	8.855	ppbv	100
3) Chlorodifluoromethane	2.98	51	2649471	10.116	ppbv	96
4) Chloromethane	3.13	50	911406	10.226	ppbv	98
5) Vinyl Chloride	3.25	62	995807	10.222	ppbv	97
6) Bromomethane	3.47	94	595754	11.605	ppbv	95
7) Chloroethane	3.55	64	356796	11.279	ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	2426256	10.655	ppbv	96
9) Propene	3.00	41	853377	9.099	ppbv	99
10) Heptane	8.11	43	2202222	9.422	ppbv	100
11) Trichlorofluoromethane	3.94	101	2619518	11.669	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1821500	11.391	ppbv	97
13) Ethanol	3.60	45	110718	8.848	ppbv	93
14) Bromoethene	3.73	108	773483	10.982	ppbv	98
15) Acetone	3.84	43	1323825	9.040	ppbv	98
16) 1,3-Butadiene	3.32	39	951526	10.459	ppbv	99
17) tert-Butyl alcohol	4.28	59	1559508	11.627	ppbv	99
18) 1,1-Dichloroethene	4.28	96	833534	11.273	ppbv	96
19) Isopropyl Alcohol	3.96	45	970429	12.328	ppbv #	35
20) Methylene Chloride	4.34	84	673571	8.581	ppbv	98
21) Allyl Chloride	4.40	41	1152007	10.428	ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	813199	11.476	ppbv	100
23) Vinyl Acetate	5.07	43	2271100	9.771	ppbv	98
24) 1,1-Dichloroethane	5.00	63	1822404	10.893	ppbv	100
25) Ethyl Acetate	5.67	43	3422081	9.725	ppbv	100
26) Hexane	5.68	57	1623452	9.031	ppbv	96
27) Carbon Disulfide	4.54	76	1846839	10.194	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2077365	9.641	ppbv	99
29) Chloroform	5.75	83	2707129	10.660	ppbv	98
30) Cyclohexane	7.12	84	1469780	9.622	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1679532	10.421	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2787054	10.220	ppbv	99
34) 2-Butanone	5.24	43	1619660	10.338	ppbv	100
35) Carbon Tetrachloride	7.01	117	2960027	10.354	ppbv	99
36) Benzene	6.88	78	3478081	9.385	ppbv	97
37) 1,2-Dichloroethane	6.30	62	2060474	11.214	ppbv	99
38) Trichloroethene	7.83	130	1516511	9.565	ppbv	98
39) 1,2-Dichloropropane	7.60	63	1331159	9.324	ppbv	95
40) 1,4-Dioxane	7.83	88	356093	10.564	ppbv #	100
41) Tetrahydrofuran	6.04	42	814055	9.123	ppbv	99
42) Bromodichloromethane	7.78	83	2878975	10.357	ppbv	100
43) Methyl Methacrylate	8.01	69	1286682	10.073	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	5692013	8.952	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1226357	12.567	ppbv	97
46) cis-1,3-Dichloropropene	8.69	75	1546013	11.778	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	1478960	9.898	ppbv	98
48) Dibromochloromethane	10.30	129	2659761	10.993	ppbv	99
49) Bromoform	13.03	173	2182258	10.922	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2473131	9.566	ppbv	98
51) 2-Hexanone	10.13	43	1337559	9.787	ppbv #	95
52) Tetrachloroethene	11.21	164	1468034	9.961	ppbv	97
53) Toluene	9.80	91	4200631	9.526	ppbv	99
54) 1,2-Dibromoethane	10.60	107	2230794	10.501	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.12	131	1801971	10.509	ppbv #	58
57) Chlorobenzene	12.14	112	3230678	10.224	ppbv	98
58) Ethyl Benzene	12.70	91	5619001	9.769	ppbv	99
59) m/p-Xylene	12.99	91	9488277m	19.956	ppbv	
60) o-Xylene	13.68	91	4493012	9.908	ppbv	99
61) Styrene	13.52	104	2656160	10.397	ppbv	99
62) Isopropylbenzene	14.66	105	6313507	9.688	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	3062469	9.043	ppbv	99
64) n-propylbenzene	15.55	120	1706953	10.152	ppbv	100
65) tert-Butylbenzene	16.74	119	5747074	9.773	ppbv	100
66) Benzyl Chloride	16.98	91	262171	8.035	ppbv	95
67) sec-Butylbenzene	17.29	105	7640645	9.524	ppbv	99
69) p-Isopropyltoluene	17.65	119	6605339	9.577	ppbv	99
70) n-Butylbenzene	18.54	91	6242023	9.526	ppbv	99
71) 2-Chlorotoluene	15.45	91	4627313	9.831	ppbv	98
72) 4-Ethyltoluene	15.83	105	5496641	10.213	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	4978132	9.850	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	5205386	9.961	ppbv	98
75) 1,3-Dichlorobenzene	16.99	146	3207453	10.052	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	3144991	9.748	ppbv	99
77) 1,2-Dichlorobenzene	17.81	146	3088703	9.660	ppbv	100
78) Hexachloro-1,3-Butadiene	23.37	225	1919309	7.465	ppbv	99
79) Naphthalene	22.19	128	3900017	9.512	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	1210466	13.577	ppbv	95
81) 1,2,4-Trichlorobenzene	21.92	180	2231567	8.928	ppbv	98

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

