

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036344.D
 Acq On : 24 Feb 2021 9:42
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 2/26/2021 4:16:42 PM

Quant Time: Feb 25 05:32:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1704450	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	3978779	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3836478	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	3145269	9.96	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2122418	8.344	ppbv	99
3) Chlorodifluoromethane	2.98	51	1982609	9.362	ppbv	98
4) Chloromethane	3.14	50	955553	9.339	ppbv	100
5) Vinyl Chloride	3.25	62	956926	10.044	ppbv	96
6) Bromomethane	3.47	94	556067	9.820	ppbv	99
7) Chloroethane	3.55	64	320269	9.467	ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	2175541	9.403	ppbv	97
9) Propene	3.01	41	898245	11.376	ppbv	100
10) Heptane	8.12	43	2297261	9.872	ppbv	100
11) Trichlorofluoromethane	3.95	101	2329185	9.351	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1509316	9.782	ppbv	100
13) Ethanol	3.60	45	173055m	11.669	ppbv	
14) Bromoethene	3.74	108	649386	10.056	ppbv	98
15) Acetone	3.84	43	1838976	8.826	ppbv	98
16) 1,3-Butadiene	3.32	39	929152	9.326	ppbv	98
17) tert-Butyl alcohol	4.29	59	1899679	11.746	ppbv	99
18) 1,1-Dichloroethene	4.29	96	661311	9.431	ppbv	97
19) Isopropyl Alcohol	3.96	45	1260349	10.919	ppbv	99
20) Methylene Chloride	4.34	84	584678	8.698	ppbv	90
21) Allyl Chloride	4.41	41	1097795	9.464	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	640398	10.054	ppbv	95
23) Vinyl Acetate	5.07	43	2390638	9.759	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1806501	9.971	ppbv	99
25) Ethyl Acetate	5.67	43	3807618	9.466	ppbv	99
26) Hexane	5.68	57	1585535	9.594	ppbv	99
27) Carbon Disulfide	4.55	76	1710352	11.261	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	2226759	10.314	ppbv	100
29) Chloroform	5.75	83	2542562	9.550	ppbv	100
30) Cyclohexane	7.13	84	1335715	9.718	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1601977	9.797	ppbv	93
32) 1,1,1-Trichloroethane	6.51	97	2494550	10.022	ppbv	99
34) 2-Butanone	5.24	43	2463972	9.321	ppbv	99
35) Carbon Tetrachloride	7.01	117	2521326	9.455	ppbv	98
36) Benzene	6.89	78	3320286	9.824	ppbv	99
37) 1,2-Dichloroethane	6.31	62	2005817	9.599	ppbv	100
38) Trichloroethene	7.83	130	1140656	9.421	ppbv	95
39) 1,2-Dichloropropane	7.61	63	1345255	9.798	ppbv	99
40) 1,4-Dioxane	7.83	88	491677m	10.336	ppbv	
41) Tetrahydrofuran	6.04	42	1468865	9.957	ppbv	99
42) Bromodichloromethane	7.79	83	2726379	9.742	ppbv	96
43) Methyl Methacrylate	8.01	69	1494908	10.488	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5644617	9.185	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1613654	11.735	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	1943166	11.125	ppbv	95
47) 1,1,2-Trichloroethane	9.48	97	1323087	9.416	ppbv	97
48) Dibromochloromethane	10.30	129	2162107	10.312	ppbv	98
49) Bromoform	13.04	173	1800121	10.620	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	3863756	9.845	ppbv	100
51) 2-Hexanone	10.13	43	3135477	10.515	ppbv #	100
52) Tetrachloroethene	11.22	164	1099941	8.890	ppbv	96
53) Toluene	9.81	91	3695196	10.094	ppbv	100
54) 1,2-Dibromoethane	10.61	107	1973716	9.720	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.13	131	1631432	9.245	ppbv #	57
57) Chlorobenzene	12.15	112	2659713	8.973	ppbv	98
58) Ethyl Benzene	12.71	91	4982799	9.485	ppbv	98
59) m/p-Xylene	13.00	91	8431991m	18.273	ppbv	
60) o-Xylene	13.69	91	3946475	8.945	ppbv	100
61) Styrene	13.53	104	2822412	10.322	ppbv	99
62) Isopropylbenzene	14.67	105	5849873	8.846	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	2817589	8.094	ppbv	99
64) n-propylbenzene	15.56	120	1530684	9.405	ppbv	100
65) tert-Butylbenzene	16.74	119	5036871	8.902	ppbv	98
66) Benzyl Chloride	16.99	91	1826647	11.875	ppbv	100
67) sec-Butylbenzene	17.30	105	7126213	8.733	ppbv	99
69) p-Isopropyltoluene	17.65	119	5862302	9.296	ppbv	99
70) n-Butylbenzene	18.55	91	6182370	9.142	ppbv	99
71) 2-Chlorotoluene	15.46	91	4601440	9.077	ppbv	97
72) 4-Ethyltoluene	15.84	105	4612603	9.394	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	4315853	9.068	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	4402804	9.061	ppbv	97
75) 1,3-Dichlorobenzene	17.00	146	2357279	8.938	ppbv	98
76) 1,4-Dichlorobenzene	17.14	146	2376054	8.676	ppbv	96
77) 1,2-Dichlorobenzene	17.82	146	2357475	9.010	ppbv	99
78) Hexachloro-1,3-Butadiene	23.38	225	1689450	7.904	ppbv	100
79) Naphthalene	22.20	128	3375980m	11.721	ppbv	
80) Naphthalene, 2-methyl-	24.98	142	1152403	21.608	ppbv	99
81) 1,2,4-Trichlorobenzene	21.93	180	1739545	9.899	ppbv	100

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

