

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036375.D
 Acq On : 25 Feb 2021 7:24
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/26/2021 4:18:17 PM

Quant Time: Feb 25 08:11:35 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10
 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	1568252	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	3659589	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3329419m	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2889934	10.55	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2165229	9.251	ppbv	99
3) Chlorodifluoromethane	2.98	51	1884014	9.669	ppbv	99
4) Chloromethane	3.13	50	954430	10.139	ppbv	98
5) Vinyl Chloride	3.25	62	919106	10.485	ppbv	100
6) Bromomethane	3.47	94	538299	10.331	ppbv	98
7) Chloroethane	3.55	64	316053	10.154	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	2133877	10.024	ppbv	98
9) Propene	3.00	41	863570	11.887	ppbv	100
10) Heptane	8.12	43	2205853	10.303	ppbv	99
11) Trichlorofluoromethane	3.94	101	2250331	9.819	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1433902	10.100	ppbv	100
13) Ethanol	3.60	45	140212m	10.275	ppbv	
14) Bromoethene	3.74	108	618752	10.414	ppbv	98
15) Acetone	3.84	43	1798792	9.383	ppbv	98
16) 1,3-Butadiene	3.32	39	918086	10.015	ppbv	98
17) tert-Butyl alcohol	4.29	59	1713414	11.514	ppbv	100
18) 1,1-Dichloroethene	4.28	96	635067	9.843	ppbv	98
19) Isopropyl Alcohol	3.96	45	1140492	10.738	ppbv	100
20) Methylene Chloride	4.34	84	526076	8.506	ppbv	97
21) Allyl Chloride	4.41	41	1059800	9.930	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	587320	10.022	ppbv	96
23) Vinyl Acetate	5.07	43	2285864	10.141	ppbv #	97
24) 1,1-Dichloroethane	5.01	63	1713682	10.280	ppbv	99
25) Ethyl Acetate	5.67	43	3716053	10.041	ppbv	99
26) Hexane	5.68	57	1495589	9.836	ppbv	99
27) Carbon Disulfide	4.55	76	1514115	10.834	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2103202	10.588	ppbv	98
29) Chloroform	5.75	83	2426477	9.905	ppbv	97
30) Cyclohexane	7.13	84	1259465	9.959	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1524033	10.129	ppbv	94
32) 1,1,1-Trichloroethane	6.51	97	2357368	10.293	ppbv	98
34) 2-Butanone	5.24	43	2347964	9.656	ppbv	99
35) Carbon Tetrachloride	7.01	117	2399114	9.782	ppbv	98
36) Benzene	6.89	78	3151185	10.137	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1871857	9.739	ppbv	99
38) Trichloroethene	7.83	130	1071653	9.623	ppbv	95
39) 1,2-Dichloropropane	7.61	63	1257783	9.960	ppbv	95
40) 1,4-Dioxane	7.83	88	406048	9.280	ppbv #	23
41) Tetrahydrofuran	6.05	42	1397086	10.296	ppbv	99
42) Bromodichloromethane	7.79	83	2563402	9.958	ppbv	98
43) Methyl Methacrylate	8.01	69	1386723	10.577	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5405375	9.562	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1441756	11.400	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	1778932	11.073	ppbv	99
47) 1,1,2-Trichloroethane	9.47	97	1234963	9.556	ppbv	97
48) Dibromochloromethane	10.30	129	2010568	10.426	ppbv	99
49) Bromoform	13.04	173	1581032	10.141	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	3614872	10.014	ppbv	99
51) 2-Hexanone	10.13	43	2917991	10.639	ppbv #	98
52) Tetrachloroethene	11.22	164	1009141	8.867	ppbv	99
53) Toluene	9.81	91	3454113	10.258	ppbv	99
54) 1,2-Dibromoethane	10.61	107	1832405	9.811	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.13	131	1497173	9.777	ppbv #	61
57) Chlorobenzene	12.15	112	2429832	9.446	ppbv	98
58) Ethyl Benzene	12.71	91	4646337	10.191	ppbv	98
59) m/p-Xylene	13.00	91	7814747m	19.515	ppbv	
60) o-Xylene	13.70	91	3682605	9.618	ppbv	100
61) Styrene	13.53	104	2568214	10.823	ppbv	99
62) Isopropylbenzene	14.67	105	5445076	9.487	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	2532019	8.381	ppbv	99
64) n-propylbenzene	15.56	120	1389444	9.837	ppbv	100
65) tert-Butylbenzene	16.75	119	4574030	9.315	ppbv	98
66) Benzyl Chloride	16.99	91	1547767	11.594	ppbv	99
67) sec-Butylbenzene	17.30	105	6502023	9.182	ppbv	99
69) p-Isopropyltoluene	17.65	119	5379463	9.830	ppbv	99
70) n-Butylbenzene	18.55	91	5699783	9.712	ppbv	99
71) 2-Chlorotoluene	15.45	91	4189229	9.522	ppbv	99
72) 4-Ethyltoluene	15.84	105	4130161	9.693	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	3895632	9.431	ppbv	100
74) 1,2,4-Trimethylbenzene	16.77	105	3978545	9.435	ppbv	95
75) 1,3-Dichlorobenzene	17.00	146	2159047	9.433	ppbv	100
76) 1,4-Dichlorobenzene	17.14	146	2103846	8.852	ppbv	96
77) 1,2-Dichlorobenzene	17.82	146	2097544	9.238	ppbv	99
78) Hexachloro-1,3-Butadiene	23.38	225	1736400	9.360	ppbv	99
79) Naphthalene	22.20	128	3402785	13.613	ppbv	96
80) Naphthalene, 2-methyl-	24.98	142	1036212	22.389	ppbv	97
81) 1,2,4-Trichlorobenzene	21.93	180	1801903	11.815	ppbv	100

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

