

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030221\
 Data File : VL036431.D
 Acq On : 2 Mar 2021 16:20
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/3/2021 1:52:38 PM

Quant Time: Mar 03 04:05:49 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	1581121	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.17	114	3695663	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3438687m	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2884504	10.20	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	1897279	8.040 ppbv	99
3) Chlorodifluoromethane	2.97	51	1777442	9.048 ppbv	99
4) Chloromethane	3.13	50	868242	9.148 ppbv	99
5) Vinyl Chloride	3.24	62	839910	9.503 ppbv	98
6) Bromomethane	3.46	94	494556	9.415 ppbv	94
7) Chloroethane	3.55	64	299852	9.555 ppbv	95
8) Dichlorotetrafluoroethane	3.18	85	1986740	9.257 ppbv	99
9) Propene	3.00	41	802416	10.955 ppbv	99
10) Heptane	8.11	43	2086759	9.667 ppbv	100
11) Trichlorofluoromethane	3.94	101	2123126	9.188 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1330632	9.296 ppbv	100
13) Ethanol	3.59	45	112454m	8.174 ppbv	
14) Bromoethene	3.73	108	571488	9.540 ppbv	99
15) Acetone	3.84	43	1677475	8.679 ppbv	98
16) 1,3-Butadiene	3.31	39	844944	9.143 ppbv	99
17) tert-Butyl alcohol	4.28	59	1389076	9.259 ppbv	100
18) 1,1-Dichloroethene	4.28	96	582685	8.958 ppbv	99
19) Isopropyl Alcohol	3.96	45	910174	8.500 ppbv	# 95
20) Methylene Chloride	4.33	84	500362	8.025 ppbv	96
21) Allyl Chloride	4.40	41	936198	8.700 ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	554244	9.380 ppbv	98
23) Vinyl Acetate	5.06	43	2184690	9.614 ppbv	99
24) 1,1-Dichloroethane	5.00	63	1532783	9.120 ppbv	99
25) Ethyl Acetate	5.66	43	3435818	9.208 ppbv	99
26) Hexane	5.68	57	1401538	9.142 ppbv	99
27) Carbon Disulfide	4.54	76	1462005	10.376 ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	1868747	9.331 ppbv	100
29) Chloroform	5.74	83	2290802	9.275 ppbv	99
30) Cyclohexane	7.12	84	1189350	9.328 ppbv	97
31) cis-1,2-Dichloroethene	5.54	61	1408368	9.284 ppbv	97
32) 1,1,1-Trichloroethane	6.50	97	2193765	9.501 ppbv	99
34) 2-Butanone	5.23	43	2218408	9.035 ppbv	100
35) Carbon Tetrachloride	7.01	117	2268076	9.157 ppbv	95
36) Benzene	6.88	78	2925615	9.319 ppbv	98
37) 1,2-Dichloroethane	6.30	62	1728849	8.907 ppbv	100
38) Trichloroethene	7.83	130	1004094	8.928 ppbv	95
39) 1,2-Dichloropropane	7.61	63	1179536	9.249 ppbv	97
40) 1,4-Dioxane	7.82	88	389203	8.809 ppbv	# 85
41) Tetrahydrofuran	6.04	42	1262984	9.217 ppbv	99
42) Bromodichloromethane	7.78	83	2428305	9.341 ppbv	99
43) Methyl Methacrylate	8.00	69	1300053	9.819 ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	5056535	8.858	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1370371	10.730	ppbv	99
46) cis-1,3-Dichloropropene	8.69	75	1672632	10.310	ppbv	99
47) 1,1,2-Trichloroethane	9.47	97	1180367	9.044	ppbv	96
48) Dibromochloromethane	10.30	129	1908308	9.799	ppbv	100
49) Bromoform	13.03	173	1556879	9.889	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	3411248	9.358	ppbv	99
51) 2-Hexanone	10.12	43	2790768	10.076	ppbv	97
52) Tetrachloroethene	11.21	164	946812	8.238	ppbv	95
53) Toluene	9.80	91	3265249	9.602	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1731851	9.183	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.11	131	1439253	9.100	ppbv	98
57) Chlorobenzene	12.14	112	2337304	8.797	ppbv	98
58) Ethyl Benzene	12.70	91	4399538	9.343	ppbv	99
59) m/p-Xylene	12.99	91	7416829m	17.933	ppbv	
60) o-Xylene	13.68	91	3512700	8.883	ppbv	100
61) Styrene	13.52	104	2481698	10.126	ppbv	98
62) Isopropylbenzene	14.66	105	5161163	8.707	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	2454880	7.868	ppbv	100
64) n-propylbenzene	15.55	120	1338794	9.177	ppbv	99
65) tert-Butylbenzene	16.74	119	4341877	8.561	ppbv	99
66) Benzyl Chloride	16.98	91	1476448	10.709	ppbv	100
67) sec-Butylbenzene	17.29	105	6254580	8.551	ppbv	99
69) p-Isopropyltoluene	17.65	119	5115802	9.051	ppbv	99
70) n-Butylbenzene	18.54	91	5430269	8.959	ppbv	99
71) 2-Chlorotoluene	15.45	91	3987168	8.775	ppbv	99
72) 4-Ethyltoluene	15.84	105	3974946	9.032	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	3737406	8.761	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	3769177	8.654	ppbv	96
75) 1,3-Dichlorobenzene	16.99	146	2059348	8.711	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	2038774	8.305	ppbv	97
77) 1,2-Dichlorobenzene	17.81	146	2058552	8.778	ppbv	98
78) Hexachloro-1,3-Butadiene	23.37	225	1647713	8.600	ppbv	100
79) Naphthalene	22.19	128	3256238m	12.613	ppbv	
80) Naphthalene, 2-methyl-	24.97	142	848902	17.759	ppbv	98
81) 1,2,4-Trichlorobenzene	21.92	180	1678429m	10.656	ppbv	

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

