

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036315.D
 Acq On : 10 Feb 2021 12:04
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:41:52 PM

Quant Time: Feb 10 14:02:02 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 2021
 QLast Update : Wed Feb 10 13:51:24 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1508575	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3445102	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3314817	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2612690	9.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	424689	2.100	ppbv	93
3) Chlorodifluoromethane	2.97	51	401924	2.169	ppbv	99
4) Chloromethane	3.12	50	192702	2.104	ppbv	91
5) Vinyl Chloride	3.24	62	174695	2.016	ppbv	97
6) Bromomethane	3.46	94	106488	2.198	ppbv	93
7) Chloroethane	3.54	64	61380	2.057	ppbv	94
8) Dichlorotetrafluoroethane	3.17	85	445791	2.275	ppbv	99
9) Propene	2.99	41	180654	2.048	ppbv	98
10) Heptane	8.10	43	476211	2.174	ppbv	97
11) Trichlorofluoromethane	3.93	101	474359	2.307	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	277376	2.225	ppbv	94
13) Ethanol	3.59	45	28874m	2.084	ppbv	
14) Bromoethene	3.72	108	121989	2.149	ppbv	99
15) Acetone	3.84	43	409993	2.219	ppbv #	89
16) 1,3-Butadiene	3.31	39	213865m	2.376	ppbv	
17) tert-Butyl alcohol	4.27	59	301684m	1.979	ppbv	
18) 1,1-Dichloroethene	4.27	96	135141m	2.339	ppbv	
19) Isopropyl Alcohol	3.95	45	221739m	1.991	ppbv	
20) Methylene Chloride	4.32	84	129275m	2.192	ppbv	
21) Allyl Chloride	4.39	41	224101m	2.228	ppbv	
22) trans-1,2-Dichloroethene	4.86	96	109228	2.046	ppbv	93
23) Vinyl Acetate	5.05	43	446083	1.993	ppbv	97
24) 1,1-Dichloroethane	4.99	63	330502	2.038	ppbv	97
25) Ethyl Acetate	5.66	43	794369	2.142	ppbv	99
26) Hexane	5.66	57	332056	2.150	ppbv	98
27) Carbon Disulfide	4.53	76	279601	2.264	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	413157	1.978	ppbv	99
29) Chloroform	5.73	83	507670	2.296	ppbv	100
30) Cyclohexane	7.10	84	274356m	2.325	ppbv	
31) cis-1,2-Dichloroethene	5.52	61	314321	2.129	ppbv	94
32) 1,1,1-Trichloroethane	6.49	97	492886	2.305	ppbv	99
34) 2-Butanone	5.22	43	515818m	2.033	ppbv	
35) Carbon Tetrachloride	6.99	117	475432	2.184	ppbv	99
36) Benzene	6.86	78	652878	2.068	ppbv	95
37) 1,2-Dichloroethane	6.28	62	401430	2.113	ppbv	100
38) Trichloroethene	7.81	130	234225m	2.003	ppbv	
39) 1,2-Dichloropropane	7.59	63	265864	2.074	ppbv	98
40) 1,4-Dioxane	7.82	88	89373m	1.928	ppbv	
41) Tetrahydrofuran	6.03	42	296941m	2.025	ppbv	
42) Bromodichloromethane	7.76	83	536495	2.247	ppbv	98
43) Methyl Methacrylate	7.99	69	273434	2.038	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	1210783	2.088	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	253376	1.989	ppbv	94
46) cis-1,3-Dichloropropene	8.68	75	329199	2.011	ppbv	99
47) 1,1,2-Trichloroethane	9.45	97	262173	2.138	ppbv	93
48) Dibromochloromethane	10.28	129	398269	2.220	ppbv	96
49) Bromoform	13.01	173	324235	2.165	ppbv	99
50) 4-Methyl-2-Pentanone	8.72	43	768353	2.031	ppbv	99
51) 2-Hexanone	10.12	43	583855	1.956	ppbv	99
52) Tetrachloroethene	11.20	164	223905m	1.925	ppbv	
53) Toluene	9.78	91	720431	2.040	ppbv	99
54) 1,2-Dibromoethane	10.58	107	387137m	2.130	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.10	131	331660	2.242	ppbv #	1
57) Chlorobenzene	12.12	112	543789	2.091	ppbv	97
58) Ethyl Benzene	12.69	91	1009259	2.052	ppbv	99
59) m/p-Xylene	12.97	91	1770973m	4.190	ppbv	
60) o-Xylene	13.67	91	848603	2.083	ppbv	97
61) Styrene	13.50	104	519460	2.019	ppbv	100
62) Isopropylbenzene	14.65	105	1262286	2.084	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.65	83	616008	2.031	ppbv	97
64) n-propylbenzene	15.54	120	306796	2.061	ppbv	82
65) tert-Butylbenzene	16.72	119	1102152	2.147	ppbv	97
66) Benzyl Chloride	16.97	91	262977	2.005	ppbv	99
67) sec-Butylbenzene	17.27	105	1598980	2.099	ppbv	98
69) p-Isopropyltoluene	17.63	119	1249385	2.068	ppbv	99
70) n-Butylbenzene	18.53	91	1339750	2.081	ppbv	100
71) 2-Chlorotoluene	15.43	91	981296	2.061	ppbv	99
72) 4-Ethyltoluene	15.82	105	945908	2.057	ppbv	99
73) 1,3,5-Trimethylbenzene	15.97	105	909022	2.074	ppbv	100
74) 1,2,4-Trimethylbenzene	16.74	105	952916	2.120	ppbv	98
75) 1,3-Dichlorobenzene	16.97	146	497299	2.063	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	517800m	2.174	ppbv	
77) 1,2-Dichlorobenzene	17.79	146	506030m	2.149	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	420945	2.235	ppbv	99
79) Naphthalene	22.17	128	583318m	2.220	ppbv	
80) Naphthalene, 2-methyl-	24.97	142	90574m	1.615	ppbv	
81) 1,2,4-Trichlorobenzene	21.91	180	340645m	2.220	ppbv	

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

