

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080421\
 Data File : VL037319.D
 Acq On : 4 Aug 2021 21:19
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/5/2021 1:40:21 PM

Quant Time: Aug 04 22:47:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 04 2021
 QLast Update : Wed Aug 04 22:14:21 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1219633	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3945539	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3526317	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2454379	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2758143	11.906	ppbv	98
3) Chlorodifluoromethane	2.98	51	3056701	12.236	ppbv	98
4) Chloromethane	3.13	50	1147664	12.956	ppbv	98
5) Vinyl Chloride	3.25	62	1232410	12.752	ppbv	98
6) Bromomethane	3.47	94	767497	15.058	ppbv	95
7) Chloroethane	3.55	64	433120	14.497	ppbv	96
8) Dichlorotetrafluoroethane	3.18	85	2977161	13.154	ppbv	100
9) Propene	3.00	41	1103652	12.444	ppbv	99
10) Heptane	8.11	43	2658051	12.561	ppbv	99
11) Trichlorofluoromethane	3.94	101	2878977	12.668	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	2180225	13.115	ppbv	100
13) Ethanol	3.61	45	138769m	15.819	ppbv	
14) Bromoethene	3.73	108	997605	13.607	ppbv	99
15) Acetone	3.84	43	1462777	10.869	ppbv	99
16) 1,3-Butadiene	3.32	39	1120194	13.047	ppbv	97
17) tert-Butyl alcohol	4.29	59	1764448	16.773	ppbv	100
18) 1,1-Dichloroethene	4.28	96	1017306	13.530	ppbv	93
19) Isopropyl Alcohol	3.96	45	933723	13.789	ppbv #	98
20) Methylene Chloride	4.34	84	905129	8.151	ppbv	98
21) Allyl Chloride	4.40	41	1405015	15.333	ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	995623	14.340	ppbv	94
23) Vinyl Acetate	5.07	43	2872847	14.291	ppbv	99
24) 1,1-Dichloroethane	5.00	63	2218137	13.207	ppbv	99
25) Ethyl Acetate	5.67	43	4175504	13.476	ppbv	100
26) Hexane	5.68	57	2093155	10.688	ppbv	99
27) Carbon Disulfide	4.54	76	2326074	14.786	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	2644483	13.407	ppbv	99
29) Chloroform	5.74	83	3080352	12.438	ppbv	100
30) Cyclohexane	7.12	84	1885459	14.008	ppbv	97
31) cis-1,2-Dichloroethene	5.54	61	1989969	14.581	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	3118807	14.173	ppbv	100
34) 2-Butanone	5.23	43	1846864	13.285	ppbv	100
35) Carbon Tetrachloride	7.01	117	3266015	13.409	ppbv	98
36) Benzene	6.88	78	4381592	12.228	ppbv	98
37) 1,2-Dichloroethane	6.30	62	2214167	13.240	ppbv	99
38) Trichloroethene	7.83	130	1867251	12.115	ppbv	99
39) 1,2-Dichloropropane	7.60	63	1668442	14.399	ppbv	97
40) 1,4-Dioxane	7.83	88	395074	22.244	ppbv #	1
41) Tetrahydrofuran	6.04	42	1022573	17.546	ppbv	100
42) Bromodichloromethane	7.78	83	3307472	13.197	ppbv	97
43) Methyl Methacrylate	8.01	69	1617339	14.608	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	6925043	11.681	ppbv	98
45) t-1,3-Dichloropropene	9.27	75	1538613	17.148	ppbv	99
46) cis-1,3-Dichloropropene	8.69	75	2012026	14.508	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	1821686	14.477	ppbv	98
48) Dibromochloromethane	10.29	129	3040346	14.218	ppbv	100
49) Bromoform	13.03	173	2365753	14.394	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2814057	14.069	ppbv	98
51) 2-Hexanone	10.13	43	1406585	21.062	ppbv #	99
52) Tetrachloroethene	11.21	164	1818188	14.071	ppbv	96
53) Toluene	9.80	91	5257890	12.415	ppbv	99
54) 1,2-Dibromoethane	10.60	107	2653805	14.484	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.11	131	1981725	12.848	ppbv	85
57) Chlorobenzene	12.14	112	3785884	12.640	ppbv	98
58) Ethyl Benzene	12.70	91	6428644	12.367	ppbv	99
59) m/p-Xylene	12.99	91	11102077m	38.938	ppbv	
60) o-Xylene	13.68	91	4876365	12.130	ppbv	97
61) Styrene	13.52	104	2947342	13.378	ppbv	99
62) Isopropylbenzene	14.66	105	7027311	13.644	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	3440809	14.370	ppbv	100
64) n-propylbenzene	15.55	120	1941001	12.751	ppbv	95
65) tert-Butylbenzene	16.73	119	6411643	13.237	ppbv	100
66) Benzyl Chloride	16.98	91	357138	3.631	ppbv	96
67) sec-Butylbenzene	17.28	105	8638137	13.374	ppbv	98
69) p-Isopropyltoluene	17.64	119	7566260	12.494	ppbv	99
70) n-Butylbenzene	18.54	91	7261394	13.121	ppbv	99
71) 2-Chlorotoluene	15.44	91	5054111	12.404	ppbv	100
72) 4-Ethyltoluene	15.83	105	6383024	13.270	ppbv	98
73) 1,3,5-Trimethylbenzene	15.98	105	5665484	13.047	ppbv	98
74) 1,2,4-Trimethylbenzene	16.75	105	5791946	12.492	ppbv	96
75) 1,3-Dichlorobenzene	16.99	146	3745885	13.109	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	3762742	13.674	ppbv	99
77) 1,2-Dichlorobenzene	17.80	146	3666236	13.440	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	2944864	13.664	ppbv	99
79) Naphthalene	22.18	128	6969938	17.626	ppbv	97
80) Naphthalene, 2-methyl-	24.96	142	1732432	27.775	ppbv	97
81) 1,2,4-Trichlorobenzene	21.91	180	3703771	18.089	ppbv	100

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

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