

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037017.D
 Acq On : 20 May 2021 7:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/24/2021 3:03:06 PM

Quant Time: May 20 09:00:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	967994	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.14	114	2911146	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.05	117	2781993m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2181756	10.44	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1706197	10.390	ppbv	99
3) Chlorodifluoromethane	2.96	51	1837678	10.363	ppbv	99
4) Chloromethane	3.11	50	641641	10.633	ppbv	98
5) Vinyl Chloride	3.23	62	687867	10.428	ppbv	99
6) Bromomethane	3.45	94	411041	11.826	ppbv	95
7) Chloroethane	3.53	64	249352	11.642	ppbv	96
8) Dichlorotetrafluoroethane	3.16	85	1713976	11.116	ppbv	100
9) Propene	2.98	41	611519	9.630	ppbv	97
10) Heptane	8.09	43	1584888	10.015	ppbv	98
11) Trichlorofluoromethane	3.92	101	1725143	11.350	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1203160	11.113	ppbv	98
13) Ethanol	3.59	45	68553m	8.091	ppbv	
14) Bromoethene	3.71	108	526501	11.040	ppbv	100
15) Acetone	3.83	43	906670	9.145	ppbv	96
16) 1,3-Butadiene	3.30	39	670478	10.885	ppbv	98
17) tert-Butyl alcohol	4.27	59	959761	10.568	ppbv	100
18) 1,1-Dichloroethene	4.26	96	565015	11.286	ppbv	97
19) Isopropyl Alcohol	3.94	45	548394	10.289	ppbv	# 34
20) Methylene Chloride	4.31	84	470829	8.859	ppbv	98
21) Allyl Chloride	4.38	41	817520	10.930	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	543664	11.331	ppbv	99
23) Vinyl Acetate	5.04	43	1569082	9.971	ppbv	# 99
24) 1,1-Dichloroethane	4.98	63	1180775	10.424	ppbv	99
25) Ethyl Acetate	5.65	43	2422814	10.169	ppbv	100
26) Hexane	5.65	57	1190754	9.783	ppbv	99
27) Carbon Disulfide	4.52	76	1254484	10.227	ppbv	100
28) Methyl tert-Butyl Ether	5.01	73	1393384	9.551	ppbv	99
29) Chloroform	5.72	83	1827306	10.627	ppbv	96
30) Cyclohexane	7.10	84	1033048	9.988	ppbv	99
31) cis-1,2-Dichloroethene	5.52	61	1188366	10.890	ppbv	98
32) 1,1,1-Trichloroethane	6.48	97	1840319	9.967	ppbv	98
34) 2-Butanone	5.21	43	1169713	11.035	ppbv	100
35) Carbon Tetrachloride	6.99	117	1932338	9.990	ppbv	100
36) Benzene	6.86	78	2491943	9.938	ppbv	99
37) 1,2-Dichloroethane	6.28	62	1356848	10.914	ppbv	99
38) Trichloroethene	7.80	130	1009189	9.408	ppbv	98
39) 1,2-Dichloropropane	7.58	63	944658	9.779	ppbv	95
40) 1,4-Dioxane	7.80	88	232748	10.205	ppbv	# 100
41) Tetrahydrofuran	6.02	42	605205	10.025	ppbv	99
42) Bromodichloromethane	7.76	83	2001052	10.639	ppbv	100
43) Methyl Methacrylate	7.98	69	907266	10.498	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.83	57	4105021	9.542	ppbv	99
45) t-1,3-Dichloropropene	9.25	75	893315	13.529	ppbv	99
46) cis-1,3-Dichloropropene	8.67	75	1165607	13.124	ppbv	99
47) 1,1,2-Trichloroethane	9.44	97	1051779	10.404	ppbv	98
48) Dibromochloromethane	10.27	129	1783773	10.897	ppbv	100
49) Bromoform	13.01	173	1496397	11.069	ppbv	99
50) 4-Methyl-2-Pentanone	8.71	43	1768874	10.113	ppbv	98
51) 2-Hexanone	10.10	43	926673	10.021	ppbv #	99
52) Tetrachloroethene	11.19	164	1020922	10.239	ppbv	97
53) Toluene	9.77	91	2996758	10.044	ppbv	99
54) 1,2-Dibromoethane	10.57	107	1546076	10.757	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.09	131	1203118	10.278	ppbv	94
57) Chlorobenzene	12.11	112	2242727	10.397	ppbv	98
58) Ethyl Benzene	12.67	91	3995674	10.176	ppbv	99
59) m/p-Xylene	12.96	91	6668160m	20.545	ppbv	
60) o-Xylene	13.66	91	3154716	10.192	ppbv	99
61) Styrene	13.49	104	1884201	10.805	ppbv	98
62) Isopropylbenzene	14.63	105	4458336	10.022	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.64	83	2131193	9.219	ppbv	100
64) n-propylbenzene	15.53	120	1205540	10.503	ppbv	98
65) tert-Butylbenzene	16.71	119	4016277	10.005	ppbv	100
66) Benzyl Chloride	16.95	91	195516	8.778	ppbv	94
67) sec-Butylbenzene	17.26	105	5451222	9.954	ppbv	99
69) p-Isopropyltoluene	17.62	119	4732906	10.052	ppbv	99
70) n-Butylbenzene	18.51	91	4564780	10.205	ppbv	99
71) 2-Chlorotoluene	15.42	91	3303457	10.281	ppbv	100
72) 4-Ethyltoluene	15.81	105	3886445	10.579	ppbv	99
73) 1,3,5-Trimethylbenzene	15.96	105	3520100	10.203	ppbv	98
74) 1,2,4-Trimethylbenzene	16.73	105	3637487	10.197	ppbv	97
75) 1,3-Dichlorobenzene	16.96	146	2279530	10.465	ppbv	100
76) 1,4-Dichlorobenzene	17.10	146	2218879	10.075	ppbv	99
77) 1,2-Dichlorobenzene	17.78	146	2205398	10.104	ppbv	99
78) Hexachloro-1,3-Butadiene	23.34	225	1550431	8.834	ppbv	99
79) Naphthalene	22.16	128	3210405	11.470	ppbv	98
80) Naphthalene, 2-methyl-	24.94	142	900312	14.792	ppbv	98
81) 1,2,4-Trichlorobenzene	21.88	180	1826750	10.706	ppbv	98

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

