

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038163.D
 Acq On : 14 Dec 2021 12:51
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/15/2021
 Supervised By :Semsettin Yesilyurt 12/16/2021

Quant Time: Dec 15 05:08:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1087415	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	2927426	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.04	117	2600597m	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	2087374	11.13	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.03	85	1518143	8.452	ppbv 99
3) Chlorodifluoromethane	2.97	51	1864989	8.167	ppbv 98
4) Chloromethane	3.12	50	625460	8.046	ppbv 98
5) Vinyl Chloride	3.24	62	644658	8.453	ppbv 99
6) Bromomethane	3.46	94	352913	8.638	ppbv 99
7) Chloroethane	3.54	64	221410	8.180	ppbv 97
8) Dichlorotetrafluoroethane	3.17	85	1517855	8.495	ppbv 96
9) Propene	3.00	41	641340	7.626	ppbv 99
10) Heptane	8.09	43	1615433	7.772	ppbv 98
11) Trichlorofluoromethane	3.93	101	1542048	9.027	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1083624	8.967	ppbv 98
13) Ethanol	3.58	45	68947m	8.483	ppbv
14) Bromoethene	3.72	108	481342	8.896	ppbv 99
15) Acetone	3.83	43	808208	8.572	ppbv 98
16) 1,3-Butadiene	3.31	39	611654	8.316	ppbv 99
17) tert-Butyl alcohol	4.26	59	1001371	8.756	ppbv 99
18) 1,1-Dichloroethene	4.27	96	491728	8.871	ppbv 97
19) Isopropyl Alcohol	3.94	45	577029	8.471	ppbv 100
20) Methylene Chloride	4.32	84	418015	7.916	ppbv 99
21) Allyl Chloride	4.39	41	749352	8.587	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	525655	9.362	ppbv 97
23) Vinyl Acetate	5.04	43	1220379	8.942	ppbv 98
24) 1,1-Dichloroethane	4.98	63	1017061	8.949	ppbv 99
25) Ethyl Acetate	5.65	43	2502895	7.988	ppbv 99
26) Hexane	5.66	57	1150741	7.619	ppbv 98
27) Carbon Disulfide	4.52	76	1314400	9.715	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	1089814	8.495	ppbv 100
29) Chloroform	5.72	83	1857868	8.347	ppbv 99
30) Cyclohexane	7.09	84	1006245	7.339	ppbv 95
31) cis-1,2-Dichloroethene	5.52	61	1157478	8.057	ppbv 96
32) 1,1,1-Trichloroethane	6.48	97	1837866	8.136	ppbv 97
34) 2-Butanone	5.21	43	1071086	9.074	ppbv 98
35) Carbon Tetrachloride	6.98	117	1931956	9.393	ppbv 100
36) Benzene	6.86	78	2457154	8.414	ppbv 98
37) 1,2-Dichloroethane	6.27	62	1381738	9.797	ppbv 97
38) Trichloroethene	7.80	130	881648	8.004	ppbv 98
39) 1,2-Dichloropropane	7.58	63	960613	8.576	ppbv 95
40) 1,4-Dioxane	7.79	88	242540	8.311	ppbv # 1
41) Tetrahydrofuran	6.02	42	639882	8.732	ppbv 96
42) Bromodichloromethane	7.75	83	2094580	9.769	ppbv 98
43) Methyl Methacrylate	7.98	69	924810	9.257	ppbv 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.83	57	4049877	8.289	ppbv	98
45) t-1,3-Dichloropropene	9.24	75	883004	11.019	ppbv	96
46) cis-1,3-Dichloropropene	8.67	75	1099033	10.140	ppbv	96
47) 1,1,2-Trichloroethane	9.44	97	989762	8.437	ppbv	94
48) Dibromochloromethane	10.26	129	1758921	9.845	ppbv	99
49) Bromoform	13.00	173	1368773	10.709	ppbv	98
50) 4-Methyl-2-Pentanone	8.70	43	1758706	9.811	ppbv	96
51) 2-Hexanone	10.10	43	850412	10.083	ppbv #	95
52) Tetrachloroethene	11.18	164	800498	7.409	ppbv	98
53) Toluene	9.77	91	2763397	8.225	ppbv	98
54) 1,2-Dibromoethane	10.57	107	1451021	8.756	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.08	131	1108357	9.388	ppbv	93
57) Chlorobenzene	12.10	112	1966644	8.437	ppbv	94
58) Ethyl Benzene	12.67	91	3644943	8.480	ppbv	98
59) m/p-Xylene	12.95	91	6135983m	16.958	ppbv	
60) o-Xylene	13.65	91	2838002	8.455	ppbv	96
61) Styrene	13.48	104	1545461	8.588	ppbv	95
62) Isopropylbenzene	14.63	105	3907965	8.202	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.64	83	2134373	8.561	ppbv	99
64) n-propylbenzene	15.52	120	993030	8.181	ppbv	89
65) tert-Butylbenzene	16.70	119	3358470	8.001	ppbv	96
66) Benzyl Chloride	16.94	91	264567	12.436	ppbv	95
67) sec-Butylbenzene	17.25	105	4726066	8.080	ppbv	100
69) p-Isopropyltoluene	17.61	119	3884074	8.489	ppbv	98
70) n-Butylbenzene	18.51	91	4045852	9.248	ppbv	98
71) 2-Chlorotoluene	15.41	91	2998390	8.607	ppbv	97
72) 4-Ethyltoluene	15.80	105	3376328	8.676	ppbv	97
73) 1,3,5-Trimethylbenzene	15.96	105	2979977	8.384	ppbv	97
74) 1,2,4-Trimethylbenzene	16.72	105	3123262	8.527	ppbv	96
75) 1,3-Dichlorobenzene	16.95	146	1772754	8.812	ppbv	99
76) 1,4-Dichlorobenzene	17.10	146	1746457	8.627	ppbv	98
77) 1,2-Dichlorobenzene	17.77	146	1698137	8.717	ppbv	100
78) Hexachloro-1,3-Butadiene	23.33	225	997082	8.198	ppbv	99
79) Naphthalene	22.14	128	1900201	9.851	ppbv	99
80) Naphthalene,2-methyl-	24.93	142	427570	10.343	ppbv	96
81) 1,2,4-Trichlorobenzene	21.87	180	1064645	9.605	ppbv	100

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

