

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039229.D
 Acq On : 8 Jun 2022 9:06
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/10/2022
 Supervised By : Mahesh Dadoda 06/10/2022

Quant Time: Jun 08 09:40:05 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	800781	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1877587	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1877346	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1580703	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	1120775	7.968	ppbv 99
3) Chlorodifluoromethane	3.00	51	1284692	12.609	ppbv 97
4) Chloromethane	3.15	50	688742	13.160	ppbv 99
5) Vinyl Chloride	3.27	62	693891	14.183	ppbv 100
6) Bromomethane	3.48	94	349354	14.515	ppbv 98
7) Chloroethane	3.56	64	232899	13.661	ppbv 93
8) Dichlorotetrafluoroethane	3.20	85	1696167	13.195	ppbv 100
9) Propene	3.02	41	504044	11.345	ppbv 100
10) Heptane	8.12	43	1252218	12.082	ppbv 99
11) Trichlorofluoromethane	3.96	101	1764461	13.859	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1234640	14.664	ppbv 98
13) Ethanol	3.60	45	31239	12.893	ppbv # 100
14) Bromoethene	3.75	108	533057	14.083	ppbv 99
15) Acetone	3.85	43	1274486	15.279	ppbv 98
16) 1,3-Butadiene	3.33	39	619075	13.806	ppbv 100
17) tert-Butyl alcohol	4.29	59	928594	14.352	ppbv 100
18) 1,1-Dichloroethene	4.29	96	552039	14.616	ppbv 95
19) Isopropyl Alcohol	3.96	45	578193	14.778	ppbv # 98
20) Methylene Chloride	4.35	84	448281	12.752	ppbv 94
21) Allyl Chloride	4.42	41	806662	14.335	ppbv 98
22) trans-1,2-Dichloroethene	4.89	96	582460	16.028	ppbv 94
23) Vinyl Acetate	5.08	43	850982	12.330	ppbv 99
24) 1,1-Dichloroethane	5.02	63	1093051	11.559	ppbv 98
25) Ethyl Acetate	5.68	43	2375545	12.635	ppbv 99
26) Hexane	5.69	57	1006677	12.184	ppbv 96
27) Carbon Disulfide	4.56	76	1318550	15.398	ppbv 99
28) Methyl tert-Butyl Ether	5.04	73	980552	10.750	ppbv 100
29) Chloroform	5.75	83	1792299	12.892	ppbv 99
30) Cyclohexane	7.13	84	803530	11.577	ppbv 98
31) cis-1,2-Dichloroethene	5.55	61	1074281	12.752	ppbv 98
32) 1,1,1-Trichloroethane	6.52	97	1865343	13.711	ppbv 99
34) 2-Butanone	5.24	43	1460257	14.315	ppbv 99
35) Carbon Tetrachloride	7.02	117	1982387	14.466	ppbv 98
36) Benzene	6.89	78	1937656	12.712	ppbv 97
37) 1,2-Dichloroethane	6.31	62	1504630	14.998	ppbv 98
38) Trichloroethene	7.84	130	988716	14.121	ppbv 99
39) 1,2-Dichloropropane	7.62	63	773715	12.761	ppbv 93
40) 1,4-Dioxane	7.83	88	276216	13.838	ppbv # 1
41) Tetrahydrofuran	6.05	42	808863	13.184	ppbv 100
42) Bromodichloromethane	7.79	83	2014844	14.472	ppbv 99
43) Methyl Methacrylate	8.01	69	826890	13.926	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3428937	12.859	ppbv	98
45) t-1,3-Dichloropropene	9.28	75	996052	16.108	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	1207858	14.786	ppbv	94
47) 1,1,2-Trichloroethane	9.48	97	840459	13.287	ppbv	95
48) Dibromochloromethane	10.30	129	1645611	14.570	ppbv	98
49) Bromoform	13.04	173	1325458	14.082	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2125800	13.922	ppbv	99
51) 2-Hexanone	10.13	43	1676367	14.110	ppbv #	97
52) Tetrachloroethene	11.22	164	761079	12.788	ppbv	99
53) Toluene	9.81	91	2306484	13.140	ppbv	100
54) 1,2-Dibromoethane	10.61	107	1213224	14.273	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.13	131	1139799	12.831	ppbv	96
57) Chlorobenzene	12.15	112	1754073	12.418	ppbv	98
58) Ethyl Benzene	12.71	91	3249374	12.566	ppbv	99
59) m/p-Xylene	13.00	91	5729513m	25.160	ppbv	
60) o-Xylene	13.69	91	2719819	12.711	ppbv	98
61) Styrene	13.53	104	1456135	12.708	ppbv	97
62) Isopropylbenzene	14.66	105	3892920	12.240	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	1417136	11.799	ppbv	99
64) n-propylbenzene	15.56	120	979846	12.533	ppbv	93
65) tert-Butylbenzene	16.74	119	3636556	12.504	ppbv	96
66) Benzyl Chloride	16.99	91	601612	15.909	ppbv	97
67) sec-Butylbenzene	17.29	105	5069046	12.774	ppbv	99
69) p-Isopropyltoluene	17.65	119	4310409	12.875	ppbv	98
70) n-Butylbenzene	18.55	91	4565872	13.287	ppbv	99
71) 2-Chlorotoluene	15.45	91	3052254	12.585	ppbv	99
72) 4-Ethyltoluene	15.84	105	3160641	12.603	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	2914528	12.885	ppbv	97
74) 1,2,4-Trimethylbenzene	16.76	105	3256396	12.900	ppbv	97
75) 1,3-Dichlorobenzene	16.99	146	1820692	12.743	ppbv	98
76) 1,4-Dichlorobenzene	17.14	146	1763598	12.371	ppbv	98
77) 1,2-Dichlorobenzene	17.82	146	1819213	12.633	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	1570230	11.924	ppbv	99
79) Naphthalene	22.19	128	2921798	15.036	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	1224909	16.967	ppbv	96
81) 1,2,4-Trichlorobenzene	21.92	180	1637398	13.301	ppbv #	100

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

