

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022222\
 Data File : VL038376.D
 Acq On : 22 Feb 2022 4:51
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/23/2022
 Supervised By : Amit Patel 02/23/2022

Quant Time: Feb 22 07:56:37 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 07:56:37 2022

QLast Update : Tue Feb 22 07:53:26 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.645	49	982680	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.150	114	2427797	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.053	117	2315713	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.381 95 1851162 10.453 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.041	85	264775	1.346	ppbv	94
3) Chlorodifluoromethane	2.983	51	360004	1.891	ppbv	99
4) Chloromethane	3.134	50	125686	1.917	ppbv	92
5) Vinyl Chloride	3.246	62	122786	1.852	ppbv	97
6) Bromomethane	3.465	94	68170m	1.939	ppbv	
7) Chloroethane	3.542	64	39258	1.781	ppbv	95
8) Dichlorotetrafluoroethane	3.179	85	293529	1.856	ppbv	98
9) Propene	3.002	41	122238	1.978	ppbv	97
10) Heptane	8.095	43	300602	1.887	ppbv	100
11) Trichlorofluoromethane	3.938	101	308712m	1.944	ppbv	
12) 1,1,2-Trichlorotrifluo...	4.468	101	226836	1.890	ppbv	99
13) Ethanol	3.610	45	12670	1.992	ppbv	99
14) Bromoethene	3.729	108	90110	1.919	ppbv	100
15) Acetone	3.841	43	179378	2.099	ppbv	97
16) 1,3-Butadiene	3.314	39	112682	1.849	ppbv	94
17) tert-Butyl alcohol	4.279	59	169450	1.842	ppbv	98
18) 1,1-Dichloroethene	4.272	96	100100m	1.928	ppbv	
19) Isopropyl Alcohol	3.963	45	91097	1.727	ppbv #	94
20) Methylene Chloride	4.333	84	82796m	1.693	ppbv	
21) Allyl Chloride	4.398	41	146860m	1.977	ppbv	
22) trans-1,2-Dichloroethene	4.867	96	99821	1.853	ppbv	97
23) Vinyl Acetate	5.053	43	238518m	1.952	ppbv	
24) 1,1-Dichloroethane	4.992	63	205504	1.886	ppbv	99
25) Ethyl Acetate	5.658	43	470840	1.963	ppbv	98
26) Hexane	5.668	57	211200	1.903	ppbv	98
27) Carbon Disulfide	4.533	76	230259	1.811	ppbv	97
28) Methyl tert-Butyl Ether	5.018	73	216036	1.900	ppbv	99
29) Chloroform	5.729	83	344960	1.908	ppbv	98
30) Cyclohexane	7.108	84	176398	1.861	ppbv	86
31) cis-1,2-Dichloroethene	5.526	61	201262	1.987	ppbv	98
32) 1,1,1-Trichloroethane	6.491	97	342010	1.895	ppbv	99
34) 2-Butanone	5.227	43	159835	1.994	ppbv	97
35) Carbon Tetrachloride	6.992	117	350123	2.049	ppbv	100
36) Benzene	6.867	78	452410	2.097	ppbv	97
37) 1,2-Dichloroethane	6.285	62	256762	2.077	ppbv	99
38) Trichloroethene	7.806	130	161737	2.018	ppbv	88
39) 1,2-Dichloropropane	7.590	63	179574m	2.064	ppbv	
40) 1,4-Dioxane	7.832	88	37438	1.768	ppbv	60
41) Tetrahydrofuran	6.037	42	109096m	2.030	ppbv	
42) Bromodichloromethane	7.764	83	374002	2.039	ppbv	96
43) Methyl Methacrylate	7.995	69	157982	2.075	ppbv	98
44) 2,2,4-Trimethylpentane	7.844	57	790307	2.082	ppbv	100
45) t-1,3-Dichloropropene	9.249	75	122338m	1.990	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.677	75	161859	1.968	ppbv	96
47) 1,1,2-Trichloroethane	9.446	97	176948m	2.052	ppbv	
48) Dibromochloromethane	10.275	129	287057	1.980	ppbv	99
49) Bromoform	13.008	173	211394	1.994	ppbv	98
50) 4-Methyl-2-Pentanone	8.729	43	281368	1.973	ppbv	98
51) 2-Hexanone	10.118	43	120394m	1.911	ppbv	
52) Tetrachloroethene	11.191	164	142906	1.926	ppbv	96
53) Toluene	9.780	91	496341	2.085	ppbv	98
54) 1,2-Dibromoethane	10.577	107	248381	2.029	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.095	131	196967	1.945	ppbv #	1
57) Chlorobenzene	12.111	112	364547m	1.975	ppbv	
58) Ethyl Benzene	12.677	91	661922	1.952	ppbv	98
59) m/p-Xylene	12.966	91	1154557m	3.979	ppbv	
60) o-Xylene	13.661	91	532766	1.970	ppbv	100
61) Styrene	13.497	104	235805	1.872	ppbv	98
62) Isopropylbenzene	14.635	105	716465	1.984	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.642	83	397221	1.964	ppbv	97
64) n-propylbenzene	15.529	120	172438	1.968	ppbv	79
65) tert-Butylbenzene	16.712	119	635845	2.109	ppbv	97
66) Benzyl Chloride	16.953	91	30102m	2.127	ppbv	
67) sec-Butylbenzene	17.262	105	906656	2.155	ppbv	99
69) p-Isopropyltoluene	17.619	119	711593	2.187	ppbv	98
70) n-Butylbenzene	18.519	91	719887	2.228	ppbv	99
71) 2-Chlorotoluene	15.420	91	547904	2.026	ppbv	100
72) 4-Ethyltoluene	15.809	105	587299	2.045	ppbv	98
73) 1,3,5-Trimethylbenzene	15.969	105	541853	2.091	ppbv	92
74) 1,2,4-Trimethylbenzene	16.728	105	575423	2.100	ppbv	95
75) 1,3-Dichlorobenzene	16.963	146	312795	2.108	ppbv	98
76) 1,4-Dichlorobenzene	17.108	146	307758m	2.147	ppbv	
77) 1,2-Dichlorobenzene	17.789	146	298799	2.151	ppbv	98
78) Hexachloro-1,3-Butadiene	23.345	225	238008	2.453	ppbv	99
79) Naphthalene	22.165	128	284493	2.149	ppbv	96
80) Naphthalene,2-methyl-	24.947	142	45619	2.700	ppbv	93
81) 1,2,4-Trichlorobenzene	21.892	180	177079	2.259	ppbv	97

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

Reviewed By :Semsettin Yesilyurt 02/23/2022
Supervised By :Amit Patel 02/23/2022

[illegible]