

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122022\
 Data File : VL040059.D
 Acq On : 20 Dec 2022 16:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/21/2022
 Supervised By : Mahesh Dadoda 12/21/2022

Quant Time: Dec 21 03:56:26 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2022

QLast Update : Tue Dec 20 04:50:21 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.166	49	934050	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.626	114	2526967	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2471059	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.751 95 1851569 9.809 ppbv -0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.706	85	1447223	8.277	ppbv	100
3) Chlorodifluoromethane	2.652	51	1128319	8.187	ppbv	98
4) Chloromethane	2.790	50	624328	7.230	ppbv	100
5) Vinyl Chloride	2.896	62	594517	8.509	ppbv	99
6) Bromomethane	3.095	94	259023	10.090	ppbv	99
7) Chloroethane	3.173	64	216420	8.210	ppbv	97
8) Dichlorotetrafluoroethane	2.835	85	1515785	8.240	ppbv	98
9) Propene	2.671	41	461100	7.884	ppbv	98
10) Heptane	7.552	43	1149307	8.052	ppbv	99
11) Trichlorofluoromethane	3.536	101	1573308	8.281	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.041	101	1165174	8.098	ppbv	100
13) Ethanol	3.221	45	30037m	5.457	ppbv	
14) Bromoethene	3.343	108	459218	8.475	ppbv	100
15) Acetone	3.443	43	1169851	8.096	ppbv	98
16) 1,3-Butadiene	2.960	39	536139	8.536	ppbv	98
17) tert-Butyl alcohol	3.851	59	1191645	8.365	ppbv	100
18) 1,1-Dichloroethene	3.854	96	506325	8.084	ppbv	96
19) Isopropyl Alcohol	3.549	45	513097	7.206	ppbv #	98
20) Methylene Chloride	3.906	84	444856	7.243	ppbv	98
21) Allyl Chloride	3.970	41	696922	8.027	ppbv	100
22) trans-1,2-Dichloroethene	4.420	96	509267	8.159	ppbv	94
23) Vinyl Acetate	4.597	43	188883	4.123	ppbv #	96
24) 1,1-Dichloroethane	4.539	63	1063427	7.905	ppbv	99
25) Ethyl Acetate	5.176	43	2382596	9.521	ppbv	99
26) Hexane	5.185	57	891187	8.474	ppbv	89
27) Carbon Disulfide	4.099	76	1184266	8.927	ppbv	99
28) Methyl tert-Butyl Ether	4.562	73	981510	7.918	ppbv	99
29) Chloroform	5.246	83	1520369	9.473	ppbv	98
30) Cyclohexane	6.574	84	769900	8.266	ppbv	99
31) cis-1,2-Dichloroethene	5.054	61	803965	8.027	ppbv	99
32) 1,1,1-Trichloroethane	5.976	97	1528255	8.894	ppbv	99
34) 2-Butanone	4.758	43	1178509	8.597	ppbv	99
35) Carbon Tetrachloride	6.468	117	1572708	10.020	ppbv	96
36) Benzene	6.343	78	1929623	8.550	ppbv	98
37) 1,2-Dichloroethane	5.780	62	1165718	8.805	ppbv	98
38) Trichloroethene	7.266	130	898769	7.750	ppbv	95
39) 1,2-Dichloropropane	7.044	63	737748	8.721	ppbv	98
40) 1,4-Dioxane	7.262	88	303904	7.971	ppbv	84
41) Tetrahydrofuran	5.533	42	730569	8.538	ppbv	99
42) Bromodichloromethane	7.224	83	1694670	9.344	ppbv	95
43) Methyl Methacrylate	7.446	69	791278	9.342	ppbv	99
44) 2,2,4-Trimethylpentane	7.301	57	3177606	8.553	ppbv	99
45) t-1,3-Dichloropropene	8.684	75	632273	8.832	ppbv	98

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.115	75	914011	9.053	ppbv	98
47) 1,1,2-Trichloroethane	8.877	97	800059	8.636	ppbv	97
48) Dibromochloromethane	9.684	129	1358435	9.642	ppbv	99
49) Bromoform	12.378	173	1063086	9.891	ppbv	99
50) 4-Methyl-2-Pentanone	8.156	43	1996360	8.914	ppbv	100
51) 2-Hexanone	9.523	43	1530023	8.783	ppbv #	100
52) Tetrachloroethene	10.587	164	629612	8.205	ppbv	97
53) Toluene	9.195	91	2194060	8.781	ppbv	100
54) 1,2-Dibromoethane	9.983	107	1019026	10.215	ppbv	95
56) 1,1,1,2-Tetrachloroethane	11.484	131	1035412	9.084	ppbv	98
57) Chlorobenzene	11.500	112	1651631	7.874	ppbv	93
58) Ethyl Benzene	12.063	91	2971320	8.463	ppbv	99
59) m/p-Xylene	12.349	91	5046839m	16.501	ppbv	
60) o-Xylene	13.034	91	2456637	8.384	ppbv	99
61) Styrene	12.873	104	1355546	8.625	ppbv	99
62) Isopropylbenzene	14.005	105	3635903	8.606	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.021	83	1353304	12.597	ppbv	99
64) n-propylbenzene	14.889	120	922315	8.643	ppbv	97
65) tert-Butylbenzene	16.066	119	3186913	8.681	ppbv	98
66) Benzyl Chloride	16.304	91	148654m	6.944	ppbv	
67) sec-Butylbenzene	16.613	105	4489875	8.727	ppbv	100
69) p-Isopropyltoluene	16.973	119	3561951	8.667	ppbv	100
70) n-Butylbenzene	17.860	91	3755875	8.723	ppbv	100
71) 2-Chlorotoluene	14.777	91	2762593	8.571	ppbv	100
72) 4-Ethyltoluene	15.169	105	2743493	8.432	ppbv	99
73) 1,3,5-Trimethylbenzene	15.326	105	2452199	8.357	ppbv	95
74) 1,2,4-Trimethylbenzene	16.085	105	2647082	8.184	ppbv	97
75) 1,3-Dichlorobenzene	16.304	146	1401893	7.921	ppbv	99
76) 1,4-Dichlorobenzene	16.449	146	1359122	7.866	ppbv	98
77) 1,2-Dichlorobenzene	17.121	146	1364342	8.038	ppbv	100
78) Hexachloro-1,3-Butadiene	22.606	225	832125	7.067	ppbv #	100
79) Naphthalene	21.355	128	1626660	8.440	ppbv	98
80) Naphthalene,2-methyl-	24.355	142	282935	4.798	ppbv	94
81) 1,2,4-Trichlorobenzene	21.117	180	862306m	7.533	ppbv	

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

