

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040844.D
 Acq On : 14 Nov 2023 9:54
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/17/2023
 Supervised By :Semsettin Yesilyurt 11/17/2023

Quant Time: Nov 14 10:29:21 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Mon Nov 13 15:42:46 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1068379	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.642	114	2890955	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2711335m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.751 95 2166094 10.204 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.742	85	2114232	9.761	ppbv	100
3) Chlorodifluoromethane	2.687	51	1675084	9.820	ppbv	98
4) Chloromethane	2.825	50	592927	9.666	ppbv	99
5) Vinyl Chloride	2.931	62	620756	10.175	ppbv	99
6) Bromomethane	3.128	94	232061	9.965	ppbv	94
7) Chloroethane	3.205	64	216911	10.268	ppbv	99
8) Dichlorotetrafluoroethane	2.867	85	1534597	9.813	ppbv	99
9) Propene	2.706	41	555572	9.664	ppbv	98
10) Heptane	7.565	43	1415603	10.010	ppbv	99
11) Trichlorofluoromethane	3.565	101	1668257	10.024	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.066	101	1174770	9.937	ppbv	99
13) Ethanol	3.250	45	100981	9.046	ppbv #	100
14) Bromoethene	3.372	108	483023	10.158	ppbv	97
15) Acetone	3.472	43	1078804	9.481	ppbv	98
16) 1,3-Butadiene	2.996	39	613804	10.663	ppbv	99
17) tert-Butyl alcohol	3.880	59	1096381	11.267	ppbv	100
18) 1,1-Dichloroethene	3.883	96	506691	9.616	ppbv	98
19) Isopropyl Alcohol	3.581	45	754963	11.025	ppbv	99
20) Methylene Chloride	3.935	84	423846	9.026	ppbv	95
21) Allyl Chloride	3.999	41	759840	10.435	ppbv	100
22) trans-1,2-Dichloroethene	4.443	96	567578	9.491	ppbv	95
23) Vinyl Acetate	4.623	43	1363064	9.277	ppbv	99
24) 1,1-Dichloroethane	4.562	63	1131879	8.643	ppbv	98
25) Ethyl Acetate	5.198	43	2304183	9.780	ppbv	99
26) Hexane	5.205	57	988460	9.479	ppbv	99
27) Carbon Disulfide	4.124	76	1360493	10.289	ppbv	99
28) Methyl tert-Butyl Ether	4.584	73	831774	8.820	ppbv	99
29) Chloroform	5.269	83	1685690	9.538	ppbv	93
30) Cyclohexane	6.590	84	906278	10.103	ppbv	99
31) cis-1,2-Dichloroethene	5.073	61	856764	8.303	ppbv	97
32) 1,1,1-Trichloroethane	5.996	97	1744534	10.580	ppbv	99
34) 2-Butanone	4.780	43	1257109	8.536	ppbv	100
35) Carbon Tetrachloride	6.481	117	1847609	10.417	ppbv	98
36) Benzene	6.359	78	2220700	9.465	ppbv	98
37) 1,2-Dichloroethane	5.799	62	1349078	9.749	ppbv	100
38) Trichloroethene	7.275	130	853928	9.363	ppbv	99
39) 1,2-Dichloropropane	7.060	63	881421	9.475	ppbv	98
40) 1,4-Dioxane	7.269	88	369336	10.006	ppbv #	93
41) Tetrahydrofuran	5.545	42	890715	9.823	ppbv	98
42) Bromodichloromethane	7.237	83	1980032	9.998	ppbv	100
43) Methyl Methacrylate	7.462	69	932572	10.430	ppbv	99
44) 2,2,4-Trimethylpentane	7.311	57	3706989	9.511	ppbv	100
45) t-1,3-Dichloropropene	8.693	75	600259	11.424	ppbv	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.124	75	742569	10.900	ppbv	96
47) 1,1,2-Trichloroethane	8.880	97	928061	9.520	ppbv	98
48) Dibromochloromethane	9.690	129	1651841	10.212	ppbv	99
49) Bromoform	12.388	173	1298903	10.676	ppbv	99
50) 4-Methyl-2-Pentanone	8.166	43	2338974	10.262	ppbv	100
51) 2-Hexanone	9.529	43	1707390	10.627	ppbv	99
52) Tetrachloroethene	10.594	164	766677	9.703	ppbv	97
53) Toluene	9.201	91	2541922	9.845	ppbv	99
54) 1,2-Dibromoethane	9.989	107	1286875	10.258	ppbv	96
56) 1,1,1,2-Tetrachloroethane	11.491	131	1162072	10.014	ppbv	98
57) Chlorobenzene	11.507	112	1951762	9.712	ppbv	99
58) Ethyl Benzene	12.069	91	3448610	9.748	ppbv	99
59) m/p-Xylene	12.349	91	5812092m	19.293	ppbv	
60) o-Xylene	13.037	91	2758328	9.618	ppbv	99
61) Styrene	12.876	104	1439348	10.407	ppbv	99
62) Isopropylbenzene	14.008	105	4049367	9.557	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.024	83	1988472	9.783	ppbv	100
64) n-propylbenzene	14.896	120	1052833	9.915	ppbv	99
65) tert-Butylbenzene	16.066	119	3506244	9.815	ppbv	100
66) Benzyl Chloride	16.304	91	132292	10.049	ppbv #	93
67) sec-Butylbenzene	16.613	105	4931207	9.663	ppbv	99
69) p-Isopropyltoluene	16.969	119	3976654	9.772	ppbv	100
70) n-Butylbenzene	17.860	91	4175512	9.717	ppbv	100
71) 2-Chlorotoluene	14.777	91	3151655	9.758	ppbv	99
72) 4-Ethyltoluene	15.169	105	3174092	10.068	ppbv	99
73) 1,3,5-Trimethylbenzene	15.326	105	2731673	9.798	ppbv	100
74) 1,2,4-Trimethylbenzene	16.085	105	2971711	9.551	ppbv	96
75) 1,3-Dichlorobenzene	16.307	146	1700536	9.898	ppbv	99
76) 1,4-Dichlorobenzene	16.452	146	1646146	10.008	ppbv	99
77) 1,2-Dichlorobenzene	17.121	146	1617964	9.686	ppbv	99
78) Hexachloro-1,3-Butadiene	22.606	225	909073	8.691	ppbv	99
79) Naphthalene	21.362	128	2070689	12.948	ppbv	98
80) Naphthalene,2-methyl-	24.355	142	469142	16.619	ppbv	94
81) 1,2,4-Trichlorobenzene	21.117	180	1044598	10.745	ppbv	99

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

