

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041323\
 Data File : VL040363.D
 Acq On : 13 Apr 2023 17:10
 Operator : SY/MD
 Sample : VL0413ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0413ABS01

Quant Time: Apr 14 08:34:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/14/2023
 Supervised By : Mahesh Dadoda 04/14/2023

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

Internal Standards						
1) Bromochloromethane	5.195	49	1032076	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2548208	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2483450	10.000	ppbv	0.00

System Monitoring Compounds
 68) 1-Bromo-4-Fluorobenzene 13.796 95 2126538 10.355 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.500%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	2.719	85	1556426	8.364	ppbv	99
3) Chlorodifluoromethane	2.665	51	1206428	8.946	ppbv	99
4) Chloromethane	2.803	50	758951	8.909	ppbv	97
5) Vinyl Chloride	2.909	62	664679	9.452	ppbv	96
6) Bromomethane	3.112	94	219964	9.494	ppbv	88
7) Chloroethane	3.189	64	249474	9.368	ppbv	98
8) Dichlorotetrafluoroethane	2.848	85	1667783	9.171	ppbv	99
9) Propene	2.684	41	478570	8.982	ppbv	99
10) Heptane	7.587	43	1232158	10.176	ppbv	99
11) Trichlorofluoromethane	3.555	101	1729199	9.179	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.063	101	1203803	9.137	ppbv	99
13) Ethanol	3.234	45	28838	6.484	ppbv	89
14) Bromoethene	3.359	108	501768	9.314	ppbv	98
15) Acetone	3.459	43	1163821	7.962	ppbv	100
16) 1,3-Butadiene	2.976	39	575392	9.511	ppbv	99
17) tert-Butyl alcohol	3.870	59	1250105	9.313	ppbv	100
18) 1,1-Dichloroethene	3.877	96	556068	9.358	ppbv	99
19) Isopropyl Alcohol	3.568	45	597743	8.962	ppbv #	97
20) Methylene Chloride	3.928	84	478362	8.197	ppbv	99
21) Allyl Chloride	3.993	41	779532	9.385	ppbv	98
22) trans-1,2-Dichloroethene	4.443	96	550801	9.272	ppbv	100
23) Vinyl Acetate	4.626	43	341218	9.168	ppbv #	96
24) 1,1-Dichloroethane	4.562	63	1112848	8.984	ppbv	100
25) Ethyl Acetate	5.205	43	2275235	9.250	ppbv	100
26) Hexane	5.214	57	963591	9.292	ppbv	99
27) Carbon Disulfide	4.121	76	1369925	10.208	ppbv	100
28) Methyl tert-Butyl Ether	4.584	73	972593	9.086	ppbv	100
29) Chloroform	5.275	83	1696172	9.182	ppbv	99
30) Cyclohexane	6.607	84	801232	9.976	ppbv	98
31) cis-1,2-Dichloroethene	5.079	61	995478	9.685	ppbv	99
32) 1,1,1-Trichloroethane	6.005	97	1733658	9.659	ppbv	100
34) 2-Butanone	4.783	43	1354113	9.855	ppbv	100
35) Carbon Tetrachloride	6.500	117	1789461	9.976	ppbv	98
36) Benzene	6.375	78	2035453	9.790	ppbv	99
37) 1,2-Dichloroethane	5.812	62	1354583	9.919	ppbv	100
38) Trichloroethene	7.301	130	1272019	10.750	ppbv	95
39) 1,2-Dichloropropane	7.082	63	791640	9.677	ppbv	98
40) 1,4-Dioxane	7.298	88	265459	8.473	ppbv #	90
41) Tetrahydrofuran	5.558	42	772723	10.268	ppbv	98
42) Bromodichloromethane	7.256	83	1882322	10.093	ppbv	100
43) Methyl Methacrylate	7.481	69	830746	10.758	ppbv	99
44) 2,2,4-Trimethylpentane	7.333	57	3410283	9.821	ppbv	100
45) t-1,3-Dichloropropene	8.722	75	829330	12.024	ppbv	94

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.153	75	1106173	11.522	ppbv	96
47) 1,1,2-Trichloroethane	8.912	97	877021	9.778	ppbv	98
48) Dibromochloromethane	9.722	129	1537222	10.642	ppbv	99
49) Bromoform	12.423	173	1269813	11.271	ppbv	99
50) 4-Methyl-2-Pentanone	8.188	43	2140997	10.276	ppbv	99
51) 2-Hexanone	9.561	43	1667993	10.835	ppbv #	99
52) Tetrachloroethene	10.632	164	700482	10.771	ppbv	95
53) Toluene	9.233	91	2368869	10.747	ppbv	99
54) 1,2-Dibromoethane	10.021	107	977516	10.750	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.523	131	1101375	9.716	ppbv	98
57) Chlorobenzene	11.545	112	1874024	9.638	ppbv	98
58) Ethyl Benzene	12.105	91	3308362	10.829	ppbv	99
59) m/p-Xylene	12.388	91	5844187m	20.802	ppbv	
60) o-Xylene	13.076	91	2792195	10.356	ppbv	99
61) Styrene	12.915	104	1588481	11.761	ppbv	99
62) Isopropylbenzene	14.047	105	3940794	10.149	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.066	83	873939	8.857	ppbv	100
64) n-propylbenzene	14.934	120	1008928	10.560	ppbv	98
65) tert-Butylbenzene	16.108	119	3475507	10.173	ppbv	99
66) Benzyl Chloride	16.346	91	249130m	11.778	ppbv	
67) sec-Butylbenzene	16.658	105	4982381	10.154	ppbv	100
69) p-Isopropyltoluene	17.015	119	3977631	10.381	ppbv	99
70) n-Butylbenzene	17.905	91	4363695	10.273	ppbv	100
71) 2-Chlorotoluene	14.822	91	3063809	10.277	ppbv	100
72) 4-Ethyltoluene	15.214	105	3234407	10.866	ppbv	99
73) 1,3,5-Trimethylbenzene	15.368	105	2905693	10.568	ppbv	97
74) 1,2,4-Trimethylbenzene	16.127	105	3178886	10.115	ppbv	97
75) 1,3-Dichlorobenzene	16.352	146	1748286	10.157	ppbv	99
76) 1,4-Dichlorobenzene	16.494	146	1691170	9.944	ppbv	99
77) 1,2-Dichlorobenzene	17.162	146	1668106	9.800	ppbv	100
78) Hexachloro-1,3-Butadiene	22.654	225	1250597	9.165	ppbv	99
79) Naphthalene	21.403	128	2685459	12.659	ppbv	99
80) Naphthalene,2-methyl-	24.387	142	873916	13.840	ppbv	99
81) 1,2,4-Trichlorobenzene	21.162	180	1403945	10.770	ppbv	99

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

