

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081523\
 Data File : VL040630.D
 Acq On : 15 Aug 2023 10:57
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Aug 16 04:46:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 16 04:46:45 2023
 QLast Update : Wed Aug 16 04:44:10 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/16/2023
 Supervised By : Mahesh Dadoda 08/16/2023

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

Internal Standards						
1) Bromochloromethane	5.192	49	1067735	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2882339	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2706518	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.786	95	2056772	9.555	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	2.719	85	492751	2.143	ppbv	95
3) Chlorodifluoromethane	2.665	51	381055	2.174	ppbv	99
4) Chloromethane	2.803	50	150103	2.195	ppbv	97
5) Vinyl Chloride	2.912	62	157093	2.164	ppbv	93
6) Bromomethane	3.111	94	81396	2.127	ppbv	95
7) Chloroethane	3.189	64	55772	2.106	ppbv	94
8) Dichlorotetrafluoroethane	2.851	85	399928	2.149	ppbv	98
9) Propene	2.687	41	118292	2.178	ppbv	94
10) Heptane	7.587	43	279561	2.235	ppbv	99
11) Trichlorofluoromethane	3.558	101	394078	2.123	ppbv	95
12) 1,1,2-Trichlorotrifluoro...	4.060	101	292669	2.148	ppbv	99
13) Ethanol	3.247	45	34811	2.672	ppbv	82
14) Bromoethene	3.362	108	121836	2.177	ppbv	98
15) Acetone	3.468	43	285227	2.184	ppbv	94
16) 1,3-Butadiene	2.976	39	144144	2.219	ppbv	100
17) tert-Butyl alcohol	3.877	59	291223	2.103	ppbv	100
18) 1,1-Dichloroethene	3.873	96	133656	2.140	ppbv	97
19) Isopropyl Alcohol	3.574	45	181602	2.193	ppbv	# 95
20) Methylene Chloride	3.931	84	131923	2.067	ppbv	94
21) Allyl Chloride	3.996	41	182740	2.115	ppbv	97
22) trans-1,2-Dichloroethene	4.446	96	128785	2.101	ppbv	96
23) Vinyl Acetate	4.626	43	305526	2.141	ppbv	# 96
24) 1,1-Dichloroethane	4.562	63	274938	2.160	ppbv	99
25) Ethyl Acetate	5.211	43	545873	2.226	ppbv	98
26) Hexane	5.211	57	262402	2.211	ppbv	97
27) Carbon Disulfide	4.124	76	298037	2.110	ppbv	98
28) Methyl tert-Butyl Ether	4.587	73	198478	2.163	ppbv	99
29) Chloroform	5.275	83	399243	2.125	ppbv	99
30) Cyclohexane	6.606	84	201443	2.316	ppbv	92
31) cis-1,2-Dichloroethene	5.079	61	246117	2.298	ppbv	97
32) 1,1,1-Trichloroethane	6.005	97	394361	2.188	ppbv	99
34) 2-Butanone	4.787	43	320516	2.205	ppbv	100
35) Carbon Tetrachloride	6.497	117	394242	2.182	ppbv	96
36) Benzene	6.375	78	513733	2.240	ppbv	99
37) 1,2-Dichloroethane	5.806	62	299815	2.168	ppbv	100
38) Trichloroethene	7.298	130	189113	2.121	ppbv	97
39) 1,2-Dichloropropane	7.079	63	188036	2.155	ppbv	94
40) 1,4-Dioxane	7.301	88	82248m	2.511	ppbv	
41) Tetrahydrofuran	5.568	42	179000	2.188	ppbv	99
42) Bromodichloromethane	7.253	83	416204	2.162	ppbv	95
43) Methyl Methacrylate	7.478	69	186507m	2.173	ppbv	
44) 2,2,4-Trimethylpentane	7.330	57	825123	2.226	ppbv	100
45) t-1,3-Dichloropropene	8.722	75	141907	2.097	ppbv	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.150	75	177407	2.128	ppbv	99
47) 1,1,2-Trichloroethane	8.902	97	211823	2.148	ppbv	97
48) Dibromochloromethane	9.712	129	329920	2.138	ppbv	98
49) Bromoform	12.417	173	260428	2.112	ppbv	99
50) 4-Methyl-2-Pentanone	8.192	43	469563	2.208	ppbv	100
51) 2-Hexanone	9.565	43	330461	2.216	ppbv #	100
52) Tetrachloroethene	10.626	164	165652	2.307	ppbv	94
53) Toluene	9.227	91	541090	2.221	ppbv	99
54) 1,2-Dibromoethane	10.018	107	288718	2.440	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.516	131	262885	2.097	ppbv #	1
57) Chlorobenzene	11.532	112	446210	2.136	ppbv	98
58) Ethyl Benzene	12.098	91	734606	2.251	ppbv	98
59) m/p-Xylene	12.381	91	1311224m	4.408	ppbv	
60) o-Xylene	13.069	91	625395	2.216	ppbv	100
61) Styrene	12.909	104	275956	2.232	ppbv	97
62) Isopropylbenzene	14.040	105	932971	2.185	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.056	83	474140	2.217	ppbv	99
64) n-propylbenzene	14.928	120	233756	2.166	ppbv	90
65) tert-Butylbenzene	16.098	119	827342	2.235	ppbv	98
66) Benzyl Chloride	16.346	91	96586m	2.091	ppbv	
67) sec-Butylbenzene	16.641	105	1214466	2.249	ppbv	99
69) p-Isopropyltoluene	17.002	119	952528	2.254	ppbv	100
70) n-Butylbenzene	17.895	91	1057971	2.293	ppbv	99
71) 2-Chlorotoluene	14.812	91	706897	2.231	ppbv	99
72) 4-Ethyltoluene	15.201	105	703519	2.208	ppbv	99
73) 1,3,5-Trimethylbenzene	15.355	105	628998	2.214	ppbv	97
74) 1,2,4-Trimethylbenzene	16.114	105	728329	2.190	ppbv	94
75) 1,3-Dichlorobenzene	16.336	146	418256	2.179	ppbv	98
76) 1,4-Dichlorobenzene	16.481	146	396891	2.069	ppbv	96
77) 1,2-Dichlorobenzene	17.153	146	405175	2.147	ppbv	98
78) Hexachloro-1,3-Butadiene	22.644	225	312998	2.182	ppbv	99
79) Naphthalene	21.397	128	572572	2.573	ppbv	99
80) Naphthalene,2-methyl-	24.390	142	128754	2.167	ppbv	93
81) 1,2,4-Trichlorobenzene	21.149	180	315776	2.184	ppbv	100

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

