

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073123\
 Data File : VL040578.D
 Acq On : 31 Jul 2023 18:39
 Operator : SY/MD
 Sample : 03572-15 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2023

Quant Time: Aug 01 01:40:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 01 2023
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/01/2023
 Supervised By : Mahesh Dadoda 08/01/2023

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

Internal Standards						
1) Bromochloromethane	5.185	49	1000385	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.645	114	2531153	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.462	117	2210613	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.774	95	1949121	11.141	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	102933	0.514	ppbv	98
3) Chlorodifluoromethane	2.668	51	77717	0.490	ppbv	93
4) Chloromethane	2.803	50	28989	0.461	ppbv	99
5) Vinyl Chloride	2.912	62	28641	0.434	ppbv #	86
6) Bromomethane	3.115	94	13843	0.497	ppbv	89
7) Chloroethane	3.192	64	10172	0.440	ppbv	96
8) Dichlorotetrafluoroethane	2.848	85	80928	0.492	ppbv	95
9) Propene	2.684	41	20057	0.369	ppbv	100
10) Heptane	7.568	43	37773m	0.315	ppbv	
11) Trichlorofluoromethane	3.555	101	92588	0.573	ppbv	98
12) 1,1,2-Trichlorotrifluoro...	4.060	101	67385	0.593	ppbv	87
13) Ethanol	3.247	45	5708m	0.483	ppbv	
14) Bromoethene	3.356	108	23666	0.484	ppbv #	96
15) Acetone	3.475	43	65627	0.570	ppbv	98
16) 1,3-Butadiene	2.977	39	24857	0.428	ppbv	99
17) tert-Butyl alcohol	3.890	59	55701	0.468	ppbv	97
18) 1,1-Dichloroethene	3.874	96	25873	0.495	ppbv #	85
19) Isopropyl Alcohol	3.591	45	31711m	0.480	ppbv	
20) Methylene Chloride	3.928	84	33473	0.683	ppbv	85
21) Allyl Chloride	3.993	41	28327	0.431	ppbv #	81
22) trans-1,2-Dichloroethene	4.446	96	27639m	0.536	ppbv	
23) Vinyl Acetate	4.626	43	40882	0.373	ppbv #	87
24) 1,1-Dichloroethane	4.558	63	54886	0.493	ppbv	97
25) Ethyl Acetate	5.205	43	83243	0.380	ppbv	99
26) Hexane	5.201	57	34959	0.343	ppbv #	72
27) Carbon Disulfide	4.121	76	55230	0.461	ppbv #	75
28) Methyl tert-Butyl Ether	4.591	73	33568	0.409	ppbv	95
29) Chloroform	5.263	83	80514	0.477	ppbv	91
30) Cyclohexane	6.597	84	19422m	0.229	ppbv	
31) cis-1,2-Dichloroethene	5.073	61	34232m	0.340	ppbv	
32) 1,1,1-Trichloroethane	5.996	97	77400	0.468	ppbv	97
34) 2-Butanone	4.793	43	46813	0.374	ppbv	96
35) Carbon Tetrachloride	6.484	117	79807	0.524	ppbv	87
36) Benzene	6.362	78	63922	0.314	ppbv #	90
37) 1,2-Dichloroethane	5.800	62	53100	0.443	ppbv	98
38) Trichloroethene	7.282	130	25596	0.332	ppbv	92
39) 1,2-Dichloropropane	7.070	63	30518	0.389	ppbv	95
40) 1,4-Dioxane	7.327	88	8270m	0.337	ppbv	
41) Tetrahydrofuran	5.574	42	20553m	0.282	ppbv	
42) Bromodichloromethane	7.243	83	75135	0.451	ppbv	97
43) Methyl Methacrylate	7.478	69	18658	0.245	ppbv	91
44) 2,2,4-Trimethylpentane	7.324	57	106520	0.325	ppbv #	84
45) t-1,3-Dichloropropene	8.700	75	12428m	0.254	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	17092m	0.272	ppbv	
47) 1,1,2-Trichloroethane	8.889	97	33271	0.385	ppbv	94
48) Dibromochloromethane	9.703	129	50909m	0.381	ppbv	
49) Bromoform	12.401	173	37381	0.353	ppbv	91
50) 4-Methyl-2-Pentanone	8.198	43	49307m	0.271	ppbv	
51) 2-Hexanone	9.571	43	29688m	0.231	ppbv	
52) Tetrachloroethene	10.613	164	23727m	0.360	ppbv	
53) Toluene	9.214	91	51125	0.231	ppbv	98
54) 1,2-Dibromoethane	10.005	107	37407m	0.348	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.507	131	49484m	0.500	ppbv	
57) Chlorobenzene	11.529	112	75152m	0.436	ppbv	
58) Ethyl Benzene	12.085	91	66262	0.239	ppbv	93
59) m/p-Xylene	12.375	91	157831m	0.637	ppbv	
60) o-Xylene	13.053	91	68029	0.288	ppbv	95
61) Styrene	12.899	104	22327m	0.205	ppbv	
62) Isopropylbenzene	14.034	105	117622	0.333	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.047	83	79978	0.484	ppbv	98
64) n-propylbenzene	14.915	120	29076m	0.318	ppbv	
65) tert-Butylbenzene	16.089	119	104109m	0.333	ppbv	
66) Benzyl Chloride	16.339	91	7114m	0.321	ppbv	
67) sec-Butylbenzene	16.635	105	157217	0.342	ppbv	96
69) p-Isopropyltoluene	16.998	119	110417	0.291	ppbv #	91
70) n-Butylbenzene	17.886	91	131352	0.310	ppbv #	93
71) 2-Chlorotoluene	14.806	91	84919m	0.312	ppbv	
72) 4-Ethyltoluene	15.195	105	70703	0.256	ppbv #	89
73) 1,3,5-Trimethylbenzene	15.355	105	77719m	0.319	ppbv	
74) 1,2,4-Trimethylbenzene	16.108	105	98263	0.346	ppbv #	86
75) 1,3-Dichlorobenzene	16.330	146	66424m	0.386	ppbv	
76) 1,4-Dichlorobenzene	16.468	146	68866m	0.408	ppbv	
77) 1,2-Dichlorobenzene	17.153	146	65555m	0.398	ppbv	
78) Hexachloro-1,3-Butadiene	22.638	225	63840m	0.413	ppbv	
79) Naphthalene	21.391	128	52986m	0.220	ppbv	
80) Naphthalene,2-methyl-	24.394	142	8002m	0.081	ppbv	
81) 1,2,4-Trichlorobenzene	21.143	180	43512m	0.263	ppbv	

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

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