

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100421\
 Data File : VL037761.D
 Acq On : 4 Oct 2021 13:33
 Operator : SY/AP
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/05/2021
 Supervised By :Semsettin Yesilyurt 10/05/2021

Quant Time: Oct 04 14:25:14 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 2021

QLast Update : Mon Oct 04 12:52:19 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.668	49	1431938	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.176	114	4238988	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.089	117	3681403	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.413 95 2614402 9.83 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.050	85	157448m	0.61	ppbv	
3) Chlorodifluoromethane	2.993	51	148477	0.55	ppbv	98
4) Chloromethane	3.140	50	54006	0.54	ppbv #	64
5) Vinyl Chloride	3.259	62	47650	0.51	ppbv	93
6) Bromomethane	3.475	94	25772m	0.47	ppbv	
7) Chloroethane	3.559	64	16267	0.46	ppbv #	68
8) Dichlorotetrafluoroethane	3.189	85	129288	0.58	ppbv	97
9) Propene	3.015	41	55706m	0.58	ppbv	
10) Heptane	8.124	43	112643	0.51	ppbv	98
11) Trichlorofluoromethane	3.957	101	114064m	0.55	ppbv	
12) 1,1,2-Trichlorotrifluoro...	4.484	101	84280m	0.55	ppbv	
13) Ethanol	3.626	45	4334m	0.47	ppbv	
14) Bromoethene	3.742	108	36182m	0.52	ppbv	
15) Acetone	3.874	43	74080m	0.50	ppbv	
16) 1,3-Butadiene	3.333	39	48937m	0.53	ppbv	
17) tert-Butyl alcohol	4.311	59	71987m	0.57	ppbv	
18) 1,1-Dichloroethene	4.292	96	35801m	0.50	ppbv	
19) Isopropyl Alcohol	3.993	45	39363m	0.49	ppbv	
20) Methylene Chloride	4.343	84	33881	0.48	ppbv	89
21) Allyl Chloride	4.417	41	57433m	0.52	ppbv	
22) trans-1,2-Dichloroethene	4.890	96	37848m	0.53	ppbv	
23) Vinyl Acetate	5.089	43	105585m	0.51	ppbv	
24) 1,1-Dichloroethane	5.015	63	68912	0.47	ppbv	98
25) Ethyl Acetate	5.690	43	184450m	0.51	ppbv	
26) Hexane	5.687	57	92624m	0.54	ppbv	
27) Carbon Disulfide	4.555	76	72508m	0.46	ppbv	
28) Methyl tert-Butyl Ether	5.050	73	80995m	0.54	ppbv	
29) Chloroform	5.751	83	137606	0.55	ppbv	89
30) Cyclohexane	7.134	84	77744m	0.53	ppbv	
31) cis-1,2-Dichloroethene	5.549	61	78449	0.50	ppbv #	85
32) 1,1,1-Trichloroethane	6.520	97	121155m	0.52	ppbv	
34) 2-Butanone	5.263	43	88063m	0.51	ppbv	
35) Carbon Tetrachloride	7.015	117	114261	0.48	ppbv #	86
36) Benzene	6.893	78	181574	0.51	ppbv	92
37) 1,2-Dichloroethane	6.314	62	85416m	0.49	ppbv	
38) Trichloroethene	7.838	130	73555m	0.50	ppbv	
39) 1,2-Dichloropropane	7.616	63	67713m	0.50	ppbv	
40) 1,4-Dioxane	7.877	88	16629m	0.50	ppbv	
41) Tetrahydrofuran	6.086	42	36825m	0.45	ppbv	
42) Bromodichloromethane	7.796	83	121048m	0.49	ppbv	
43) Methyl Methacrylate	8.034	69	53617m	0.46	ppbv	
44) 2,2,4-Trimethylpentane	7.870	57	308513	0.52	ppbv	99
45) t-1,3-Dichloropropene	9.285	75	32564m	0.35	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.703	75	45679m	0.37	ppbv	
47) 1,1,2-Trichloroethane	9.475	97	77352m	0.52	ppbv	
48) Dibromochloromethane	10.307	129	92537m	0.44	ppbv	
49) Bromoform	13.044	173	61151m	0.37	ppbv	
50) 4-Methyl-2-Pentanone	8.771	43	99558m	0.46	ppbv	
51) 2-Hexanone	10.163	43	41347m	0.43	ppbv	
52) Tetrachloroethene	11.227	164	67978	0.50	ppbv	94
53) Toluene	9.809	91	189364m	0.48	ppbv	
54) 1,2-Dibromoethane	10.613	107	96709m	0.47	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.131	131	78738	0.52	ppbv #	1
57) Chlorobenzene	12.143	112	159615	0.52	ppbv #	94
58) Ethyl Benzene	12.712	91	227013	0.46	ppbv	91
59) m/p-Xylene	12.995	91	409421m	0.96	ppbv	
60) o-Xylene	13.687	91	206357	0.51	ppbv	98
61) Styrene	13.529	104	80222m	0.40	ppbv	
62) Isopropylbenzene	14.664	105	290749	0.51	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.683	83	161743m	0.51	ppbv	
64) n-propylbenzene	15.561	120	65025m	0.45	ppbv	
65) tert-Butylbenzene	16.744	119	258771m	0.51	ppbv	
66) Benzyl Chloride	17.002	91	13940m	0.50	ppbv	
67) sec-Butylbenzene	17.291	105	334287	0.48	ppbv	97
69) p-Isopropyltoluene	17.648	119	269773m	0.48	ppbv	
70) n-Butylbenzene	18.551	91	246111m	0.46	ppbv	
71) 2-Chlorotoluene	15.455	91	194509m	0.48	ppbv	
72) 4-Ethyltoluene	15.844	105	217057m	0.47	ppbv	
73) 1,3,5-Trimethylbenzene	15.999	105	212837m	0.49	ppbv	
74) 1,2,4-Trimethylbenzene	16.761	105	216530	0.47	ppbv #	88
75) 1,3-Dichlorobenzene	16.992	146	141687m	0.50	ppbv	
76) 1,4-Dichlorobenzene	17.130	146	134961m	0.48	ppbv	
77) 1,2-Dichlorobenzene	17.815	146	141726m	0.53	ppbv	
78) Hexachloro-1,3-Butadiene	23.365	225	125635m	0.55	ppbv	
79) Naphthalene	22.198	128	102256m	0.36	ppbv	
80) Naphthalene,2-methyl-	24.972	142	25108m	0.39	ppbv	
81) 1,2,4-Trichlorobenzene	21.924	180	77117m	0.43	ppbv	

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

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