

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110121\
 Data File : VL037937.D
 Acq On : 1 Nov 2021 11:17
 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 : Semsettin Yesilyurt 11/05/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 01 11:47:20 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Nov 01 11:47:20 2021

QLast Update : Mon Nov 01 11:08:47 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.661	49	1508448	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.169	114	4585240	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.076	117	4010442	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.404 95 2957792 10.547 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.500%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	3.054	85	139482m	0.579	ppbv	
3) Chlorodifluoromethane	2.989	51	159043	0.549	ppbv	97
4) Chloromethane	3.144	50	59078	0.557	ppbv	96
5) Vinyl Chloride	3.263	62	56701	0.583	ppbv	89
6) Bromomethane	3.475	94	29318	0.557	ppbv	92
7) Chloroethane	3.555	64	21331	0.596	ppbv #	85
8) Dichlorotetrafluoroethane	3.189	85	147883	0.621	ppbv	96
9) Propene	3.015	41	58079m	0.545	ppbv	
10) Heptane	8.115	43	111788	0.462	ppbv	98
11) Trichlorofluoromethane	3.951	101	112440	0.523	ppbv	100
12) 1,1,2-Trichlorotrifluoro...	4.484	101	90162	0.554	ppbv	89
13) Ethanol	3.626	45	5573m	0.639	ppbv	
14) Bromoethene	3.742	108	40146m	0.561	ppbv	
15) Acetone	3.874	43	65170	0.481	ppbv #	88
16) 1,3-Butadiene	3.330	39	56218m	0.571	ppbv	
17) tert-Butyl alcohol	4.314	59	76413m	0.548	ppbv	
18) 1,1-Dichloroethene	4.285	96	41900m	0.566	ppbv	
19) Isopropyl Alcohol	3.986	45	41481m	0.492	ppbv	
20) Methylene Chloride	4.346	84	41169m	0.602	ppbv	
21) Allyl Chloride	4.411	41	58821	0.490	ppbv	87
22) trans-1,2-Dichloroethene	4.883	96	40985m	0.551	ppbv	
23) Vinyl Acetate	5.079	43	108630m	0.535	ppbv	
24) 1,1-Dichloroethane	5.012	63	87124	0.590	ppbv #	93
25) Ethyl Acetate	5.681	43	188123	0.495	ppbv	98
26) Hexane	5.681	57	87664m	0.469	ppbv	
27) Carbon Disulfide	4.552	76	81876	0.494	ppbv #	92
28) Methyl tert-Butyl Ether	5.047	73	79216m	0.509	ppbv	
29) Chloroform	5.745	83	141278	0.528	ppbv	94
30) Cyclohexane	7.124	84	81332m	0.513	ppbv	
31) cis-1,2-Dichloroethene	5.542	61	80398	0.473	ppbv	97
32) 1,1,1-Trichloroethane	6.507	97	131352m	0.518	ppbv	
34) 2-Butanone	5.263	43	81607m	0.441	ppbv	
35) Carbon Tetrachloride	7.012	117	133700	0.513	ppbv	93
36) Benzene	6.883	78	177258	0.453	ppbv	97
37) 1,2-Dichloroethane	6.301	62	90446m	0.490	ppbv	
38) Trichloroethene	7.825	130	78939m	0.510	ppbv	
39) 1,2-Dichloropropane	7.603	63	70800	0.481	ppbv	85
40) 1,4-Dioxane	7.864	88	19807m	0.537	ppbv	
41) Tetrahydrofuran	6.073	42	36119m	0.398	ppbv	
42) Bromodichloromethane	7.780	83	136372m	0.503	ppbv	
43) Methyl Methacrylate	8.012	69	49995m	0.391	ppbv	
44) 2,2,4-Trimethylpentane	7.864	57	296239	0.450	ppbv	92
45) t-1,3-Dichloropropene	9.266	75	34149m	0.388	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.697	75	51289m	0.420	ppbv	
47) 1,1,2-Trichloroethane	9.459	97	81746m	0.510	ppbv	
48) Dibromochloromethane	10.291	129	101632m	0.445	ppbv	
49) Bromoform	13.031	173	76161m	0.436	ppbv	
50) 4-Methyl-2-Pentanone	8.761	43	95293m	0.395	ppbv	
51) 2-Hexanone	10.156	43	38379m	0.357	ppbv	
52) Tetrachloroethene	11.211	164	68894m	0.452	ppbv	
53) Toluene	9.799	91	171080m	0.394	ppbv	
54) 1,2-Dibromoethane	10.600	107	97539m	0.451	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.118	131	88583	0.534	ppbv #	1
57) Chlorobenzene	12.134	112	173847	0.528	ppbv	97
58) Ethyl Benzene	12.703	91	220377m	0.409	ppbv	
59) m/p-Xylene	12.983	91	397010	0.859	ppbv	97
60) o-Xylene	13.687	91	202122m	0.456	ppbv	
61) Styrene	13.523	104	66606m	0.311	ppbv	
62) Isopropylbenzene	14.655	105	300635m	0.487	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.664	83	179673m	0.526	ppbv	
64) n-propylbenzene	15.552	120	70987m	0.461	ppbv	
65) tert-Butylbenzene	16.735	119	248664	0.457	ppbv	95
66) Benzyl Chloride	16.976	91	12195m	0.454	ppbv	
67) sec-Butylbenzene	17.281	105	343870	0.462	ppbv	100
69) p-Isopropyltoluene	17.642	119	268650m	0.447	ppbv	
70) n-Butylbenzene	18.545	91	222770	0.390	ppbv	99
71) 2-Chlorotoluene	15.445	91	189268m	0.434	ppbv	
72) 4-Ethyltoluene	15.828	105	202639	0.403	ppbv #	97
73) 1,3,5-Trimethylbenzene	15.982	105	205253m	0.449	ppbv	
74) 1,2,4-Trimethylbenzene	16.751	105	227481	0.474	ppbv	94
75) 1,3-Dichlorobenzene	16.986	146	153923m	0.518	ppbv	
76) 1,4-Dichlorobenzene	17.127	146	151368m	0.534	ppbv	
77) 1,2-Dichlorobenzene	17.809	146	147547m	0.517	ppbv	
78) Hexachloro-1,3-Butadiene	23.358	225	136236m	0.584	ppbv	
79) Naphthalene	22.198	128	85770m	0.292	ppbv	
80) Naphthalene,2-methyl-	24.979	142	12477m	0.158	ppbv	
81) 1,2,4-Trichlorobenzene	21.921	180	74281m	0.395	ppbv	

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

