

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034844.D
 Acq On : 9 Mar 2020 14:13
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:26:02 PM

Quant Time: Mar 09 15:48:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 15:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	925375	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2132118	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2105955	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1687867	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	88180	0.584	ppbv	100
3) Chlorodifluoromethane	2.94	51	57104	0.542	ppbv	99
4) Chloromethane	3.10	50	29454	0.519	ppbv	91
5) Vinyl Chloride	3.22	62	28247	0.471	ppbv #	87
6) Bromomethane	3.44	94	17204	0.525	ppbv	84
7) Chloroethane	3.52	64	10395	0.501	ppbv	100
8) Dichlorotetrafluoroethane	3.15	85	72609	0.553	ppbv	99
9) Propene	2.97	41	27971	0.674	ppbv	92
10) Heptane	8.13	43	59687	0.566	ppbv	96
11) Trichlorofluoromethane	3.92	101	73792	0.546	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.46	101	53558	0.574	ppbv	96
13) Ethanol	3.58	45	9050	0.637	ppbv	74
14) Bromoethene	3.70	108	20669	0.540	ppbv	91
15) Acetone	3.84	43	65038	0.587	ppbv	93
16) 1,3-Butadiene	3.29	39	29673m	0.592	ppbv	
17) tert-Butyl alcohol	4.29	59	70140	0.803	ppbv	100
18) 1,1-Dichloroethene	4.26	96	21031	0.511	ppbv	96
19) Isopropyl Alcohol	3.95	45	46101	0.694	ppbv #	40
20) Methylene Chloride	4.32	84	22224	0.562	ppbv #	84
21) Allyl Chloride	4.38	41	41532	0.592	ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	22670	0.565	ppbv	89
23) Vinyl Acetate	5.06	43	90255	0.607	ppbv #	96
24) 1,1-Dichloroethane	4.99	63	62986	0.546	ppbv #	96
25) Ethyl Acetate	5.67	43	113045	0.590	ppbv	98
26) Hexane	5.67	57	49323m	0.590	ppbv	
27) Carbon Disulfide	4.53	76	49878	0.510	ppbv #	81
28) Methyl tert-Butyl Ether	5.02	73	76366	0.613	ppbv	99
29) Chloroform	5.74	83	75197	0.534	ppbv	90
30) Cyclohexane	7.13	84	40005m	0.625	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	47519	0.554	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	73138m	0.526	ppbv	
34) 2-Butanone	5.24	43	73698	0.531	ppbv	99
35) Carbon Tetrachloride	7.01	117	70977	0.441	ppbv	87
36) Benzene	6.89	78	99728	0.547	ppbv	97
37) 1,2-Dichloroethane	6.30	62	55706	0.448	ppbv	97
38) Trichloroethene	7.84	130	38488	0.542	ppbv	90
39) 1,2-Dichloropropane	7.62	63	40391m	0.549	ppbv	
40) 1,4-Dioxane	7.87	88	17755m	0.698	ppbv	
41) Tetrahydrofuran	6.06	42	36334	0.513	ppbv	95
42) Bromodichloromethane	7.80	83	71054	0.451	ppbv	93
43) Methyl Methacrylate	8.02	69	40321	0.522	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	166470	0.523	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	42349	0.523	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	52740m	0.533	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	39574m	0.510	ppbv	
48) Dibromochloromethane	10.32	129	58551	0.482	ppbv	99
49) Bromoform	13.08	173	49783m	0.470	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	101965	0.513	ppbv	99
51) 2-Hexanone	10.17	43	81474m	0.523	ppbv	
52) Tetrachloroethene	11.24	164	38697m	0.575	ppbv	
53) Toluene	9.82	91	111391	0.578	ppbv	98
54) 1,2-Dibromoethane	10.63	107	57512	0.501	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.15	131	50674	0.543	ppbv #	1
57) Chlorobenzene	12.17	112	92660	0.576	ppbv #	90
58) Ethyl Benzene	12.74	91	152460	0.587	ppbv	89
59) m/p-Xylene	13.02	91	265672m	1.183	ppbv	
60) o-Xylene	13.72	91	126961	0.559	ppbv	97
61) Styrene	13.55	104	79606m	0.565	ppbv	
62) Isopropylbenzene	14.70	105	192625	0.576	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.71	83	88459m	0.494	ppbv	
64) n-propylbenzene	15.60	120	49209	0.587	ppbv	92
65) tert-Butylbenzene	16.78	119	163740m	0.579	ppbv	
66) Benzyl Chloride	17.03	91	58256m	0.637	ppbv	
67) sec-Butylbenzene	17.33	105	215685	0.524	ppbv	100
69) p-Isopropyltoluene	17.69	119	180112m	0.540	ppbv	
70) n-Butylbenzene	18.59	91	186556	0.512	ppbv	95
71) 2-Chlorotoluene	15.49	91	141709	0.561	ppbv	98
72) 4-Ethyltoluene	15.88	105	146182m	0.578	ppbv	
73) 1,3,5-Trimethylbenzene	16.03	105	135367m	0.558	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	139922m	0.530	ppbv	
75) 1,3-Dichlorobenzene	17.03	146	87071m	0.557	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	84218m	0.563	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	83208m	0.557	ppbv	
78) Hexachloro-1,3-Butadiene	23.41	225	69538m	0.558	ppbv	
79) Naphthalene	22.26	128	83976m	0.423	ppbv	
80) Naphthalene, 2-methyl-	25.02	142	7203	0.152	ppbv #	77
81) 1,2,4-Trichlorobenzene	21.98	180	62556m	0.499	ppbv	

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

