

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080520\
 Data File : VL035336.D
 Acq On : 5 Aug 2020 10:36
 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
 8/6/2020 12:48:56 PM

Quant Time: Aug 05 11:12:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05
 QLast Update : Wed Aug 05 09:32:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1346301	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3459506	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3110142	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2742468	10.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	128759	0.731 ppbv	89
3) Chlorodifluoromethane	2.94	51	85362	0.552 ppbv	95
4) Chloromethane	3.10	50	49080	0.556 ppbv	97
5) Vinyl Chloride	3.21	62	43724	0.508 ppbv	90
6) Bromomethane	3.44	94	29810m	0.527 ppbv	
7) Chloroethane	3.52	64	18406	0.538 ppbv	90
8) Dichlorotetrafluoroethane	3.14	85	121480	0.572 ppbv	99
9) Propene	2.96	41	27280	0.488 ppbv	94
10) Heptane	8.13	43	52795	0.368 ppbv	92
11) Trichlorofluoromethane	3.92	101	131025m	0.569 ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.45	101	93794m	0.585 ppbv	
13) Ethanol	3.58	45	11004m	0.533 ppbv	
14) Bromoethene	3.70	108	34405	0.521 ppbv #	93
15) Acetone	3.82	43	116620	0.599 ppbv	95
16) 1,3-Butadiene	3.29	39	37749m	0.520 ppbv	
17) tert-Butyl alcohol	4.27	59	93223	0.526 ppbv	99
18) 1,1-Dichloroethene	4.26	96	37563	0.520 ppbv	96
19) Isopropyl Alcohol	3.94	45	65305	0.534 ppbv #	90
20) Methylene Chloride	4.31	84	45776	0.515 ppbv #	93
21) Allyl Chloride	4.38	41	56197	0.510 ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	35725	0.499 ppbv #	87
23) Vinyl Acetate	5.06	43	78894	0.409 ppbv #	94
24) 1,1-Dichloroethane	4.99	63	90902	0.506 ppbv	98
25) Ethyl Acetate	5.67	43	143669	0.488 ppbv	97
26) Hexane	5.67	57	59785	0.454 ppbv	87
27) Carbon Disulfide	4.52	76	86781	0.490 ppbv #	83
28) Methyl tert-Butyl Ether	5.02	73	81696	0.413 ppbv	99
29) Chloroform	5.74	83	117317	0.526 ppbv	99
30) Cyclohexane	7.13	84	46152m	0.467 ppbv	
31) cis-1,2-Dichloroethene	5.54	61	48000m	0.395 ppbv	
32) 1,1,1-Trichloroethane	6.50	97	111919	0.519 ppbv	99
34) 2-Butanone	5.23	43	72167	0.396 ppbv	100
35) Carbon Tetrachloride	7.02	117	114614	0.512 ppbv #	91
36) Benzene	6.89	78	98167	0.387 ppbv	99
37) 1,2-Dichloroethane	6.30	62	85333	0.497 ppbv	100
38) Trichloroethene	7.84	130	43338m	0.465 ppbv	
39) 1,2-Dichloropropane	7.62	63	42706	0.427 ppbv #	86
40) 1,4-Dioxane	7.86	88	18139m	0.418 ppbv	
41) Tetrahydrofuran	6.06	42	29540m	0.329 ppbv	
42) Bromodichloromethane	7.79	83	103075	0.440 ppbv	95
43) Methyl Methacrylate	8.03	69	35562m	0.336 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.87	57	171082m	0.394	ppbv	
45) t-1,3-Dichloropropene	9.29	75	35008m	0.310	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	43878m	0.324	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	55793m	0.481	ppbv	
48) Dibromochloromethane	10.32	129	84635m	0.448	ppbv	
49) Bromoform	13.07	173	75731m	0.461	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	105954m	0.412	ppbv	
51) 2-Hexanone	10.17	43	73952m	0.372	ppbv	
52) Tetrachloroethene	11.24	164	36521m	0.409	ppbv	
53) Toluene	9.82	91	84544m	0.317	ppbv	
54) 1,2-Dibromoethane	10.62	107	73980m	0.431	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.14	131	80331m	0.550	ppbv	
57) Chlorobenzene	12.17	112	125066	0.525	ppbv	96
58) Ethyl Benzene	12.73	91	114874m	0.337	ppbv	
59) m/p-Xylene	13.02	91	255153m	0.811	ppbv	
60) o-Xylene	13.72	91	123054m	0.396	ppbv	
61) Styrene	13.56	104	55917m	0.293	ppbv	
62) Isopropylbenzene	14.70	105	193560	0.413	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.71	83	129969	0.533	ppbv	99
64) n-propylbenzene	15.60	120	51042m	0.416	ppbv	
65) tert-Butylbenzene	16.78	119	170895	0.407	ppbv	93
66) Benzyl Chloride	17.02	91	73179m	0.451	ppbv	
67) sec-Butylbenzene	17.33	105	245110	0.413	ppbv	98
69) p-Isopropyltoluene	17.69	119	184714m	0.376	ppbv	
70) n-Butylbenzene	18.59	91	213840	0.405	ppbv	90
71) 2-Chlorotoluene	15.48	91	124627	0.356	ppbv	100
72) 4-Ethyltoluene	15.87	105	125550	0.358	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.04	105	121159	0.353	ppbv	93
74) 1,2,4-Trimethylbenzene	16.80	105	170168m	0.432	ppbv	
75) 1,3-Dichlorobenzene	17.04	146	131370m	0.536	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	108957m	0.470	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	112541m	0.498	ppbv	
78) Hexachloro-1,3-Butadiene	23.43	225	103018m	0.561	ppbv	
79) Naphthalene	22.27	128	90668m	0.291	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	5507	0.060	ppbv	85
81) 1,2,4-Trichlorobenzene	21.99	180	71388m	0.376	ppbv	

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

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