

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061920\
 Data File : VL035099.D
 Acq On : 19 Jun 2020 17:50
 Operator : SY/AP
 Sample : VSTDICCC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC0.5

Manual Integrations
 APPROVED

MMDadoda
 6/22/2020 2:09:02 PM

Quant Time: Jun 20 01:56:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 2020
 QLast Update : Sat Jun 20 01:15:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1351253	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3140389	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2910150	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2508959	10.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	117524	0.605	ppbv	98
3) Chlorodifluoromethane	2.94	51	81025	0.524	ppbv	97
4) Chloromethane	3.09	50	44405	0.502	ppbv	93
5) Vinyl Chloride	3.21	62	39870	0.462	ppbv	97
6) Bromomethane	3.43	94	26740	0.518	ppbv	98
7) Chloroethane	3.52	64	16699	0.540	ppbv	92
8) Dichlorotetrafluoroethane	3.14	85	112491	0.564	ppbv	95
9) Propene	2.96	41	28645	0.432	ppbv	93
10) Heptane	8.12	43	65022	0.391	ppbv	97
11) Trichlorofluoromethane	3.92	101	107582	0.544	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	77527	0.552	ppbv	96
13) Ethanol	3.58	45	15979m	0.746	ppbv	
14) Bromoethene	3.70	108	29214	0.502	ppbv	94
15) Acetone	3.83	43	95088	0.533	ppbv	91
16) 1,3-Butadiene	3.28	39	35394	0.461	ppbv	98
17) tert-Butyl alcohol	4.27	59	79093	0.500	ppbv	99
18) 1,1-Dichloroethene	4.26	96	30528	0.500	ppbv	93
19) Isopropyl Alcohol	3.94	45	60736	0.517	ppbv #	91
20) Methylene Chloride	4.31	84	39797	0.675	ppbv	87
21) Allyl Chloride	4.38	41	49658	0.494	ppbv	96
22) trans-1,2-Dichloroethene	4.86	96	29210	0.489	ppbv #	94
23) Vinyl Acetate	5.05	43	86534	0.387	ppbv #	97
24) 1,1-Dichloroethane	4.98	63	90484m	0.519	ppbv	
25) Ethyl Acetate	5.66	43	157573	0.526	ppbv	99
26) Hexane	5.67	57	66573	0.513	ppbv	92
27) Carbon Disulfide	4.52	76	62570	0.413	ppbv #	87
28) Methyl tert-Butyl Ether	5.02	73	89927	0.456	ppbv	97
29) Chloroform	5.73	83	117114	0.549	ppbv	91
30) Cyclohexane	7.13	84	40240m	0.399	ppbv	
31) cis-1,2-Dichloroethene	5.53	61	58482	0.460	ppbv #	87
32) 1,1,1-Trichloroethane	6.50	97	96498	0.501	ppbv	98
34) 2-Butanone	5.23	43	87600	0.452	ppbv	97
35) Carbon Tetrachloride	7.02	117	89692m	0.453	ppbv	
36) Benzene	6.88	78	117021	0.453	ppbv #	91
37) 1,2-Dichloroethane	6.29	62	79194	0.495	ppbv	98
38) Trichloroethene	7.83	130	43883	0.436	ppbv #	82
39) 1,2-Dichloropropane	7.61	63	47964	0.463	ppbv #	82
40) 1,4-Dioxane	7.86	88	21539m	0.522	ppbv	
41) Tetrahydrofuran	6.06	42	39272	0.386	ppbv #	91
42) Bromodichloromethane	7.79	83	97502	0.453	ppbv #	92
43) Methyl Methacrylate	8.01	69	43165	0.396	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	206293	0.449	ppbv	95
45) t-1,3-Dichloropropene	9.30	75	33041m	0.302	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	47136	0.350	ppbv	94
47) 1,1,2-Trichloroethane	9.49	97	51558	0.470	ppbv #	92
48) Dibromochloromethane	10.32	129	65135	0.387	ppbv	95
49) Bromoform	13.06	173	53402m	0.370	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	115521	0.418	ppbv	93
51) 2-Hexanone	10.16	43	83200m	0.386	ppbv	
52) Tetrachloroethene	11.24	164	38170	0.414	ppbv	86
53) Toluene	9.82	91	103683	0.378	ppbv	97
54) 1,2-Dibromoethane	10.63	107	73005	0.454	ppbv	82
56) 1,1,1,2-Tetrachloroethane	12.14	131	59639	0.459	ppbv #	29
57) Chlorobenzene	12.17	112	114534m	0.501	ppbv	
58) Ethyl Benzene	12.73	91	133865	0.378	ppbv	91
59) m/p-Xylene	13.01	91	277855m	0.889	ppbv	
60) o-Xylene	13.72	91	142391	0.462	ppbv	94
61) Styrene	13.55	104	69734m	0.358	ppbv	
62) Isopropylbenzene	14.69	105	211129	0.459	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.70	83	120490m	0.494	ppbv	
64) n-propylbenzene	15.59	120	52978m	0.448	ppbv	
65) tert-Butylbenzene	16.78	119	174886m	0.437	ppbv	
66) Benzyl Chloride	17.03	91	48092m	0.363	ppbv	
67) sec-Butylbenzene	17.32	105	257411m	0.452	ppbv	
69) p-Isopropyltoluene	17.69	119	193073m	0.419	ppbv	
70) n-Butylbenzene	18.59	91	216349	0.442	ppbv	94
71) 2-Chlorotoluene	15.48	91	149785m	0.431	ppbv	
72) 4-Ethyltoluene	15.87	105	139481	0.405	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.03	105	137491	0.412	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	173917m	0.477	ppbv	
75) 1,3-Dichlorobenzene	17.03	146	112749m	0.524	ppbv	
76) 1,4-Dichlorobenzene	17.17	146	99079	0.486	ppbv	97
77) 1,2-Dichlorobenzene	17.85	146	93053	0.462	ppbv	93
78) Hexachloro-1,3-Butadiene	23.42	225	93151m	0.540	ppbv	
79) Naphthalene	22.26	128	125561m	0.446	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	31759	0.448	ppbv	98
81) 1,2,4-Trichlorobenzene	21.98	180	87014m	0.507	ppbv	

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

