

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061920\
 Data File : VL035095.D
 Acq On : 19 Jun 2020 15:12
 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 2:08:48 PM

Quant Time: Jun 20 01:34:33 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	1263025	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3045326	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2830937	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2444171	10.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	127374	0.701	ppbv	98
3) Chlorodifluoromethane	2.94	51	80458	0.557	ppbv	97
4) Chloromethane	3.09	50	44014	0.532	ppbv	90
5) Vinyl Chloride	3.21	62	43251	0.537	ppbv	92
6) Bromomethane	3.43	94	28068	0.582	ppbv	98
7) Chloroethane	3.51	64	17171	0.594	ppbv	96
8) Dichlorotetrafluoroethane	3.14	85	108367	0.582	ppbv	95
9) Propene	2.96	41	29393	0.474	ppbv	100
10) Heptane	8.12	43	61218	0.394	ppbv	94
11) Trichlorofluoromethane	3.91	101	108820	0.589	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.45	101	76405	0.582	ppbv	99
13) Ethanol	3.58	45	17289	0.863	ppbv	94
14) Bromoethene	3.70	108	29214	0.537	ppbv	91
15) Acetone	3.82	43	94042	0.564	ppbv	97
16) 1,3-Butadiene	3.28	39	33206	0.462	ppbv	97
17) tert-Butyl alcohol	4.27	59	82824	0.560	ppbv	100
18) 1,1-Dichloroethene	4.26	96	29017	0.509	ppbv	97
19) Isopropyl Alcohol	3.94	45	62400	0.568	ppbv #	90
20) Methylene Chloride	4.31	84	44825	0.813	ppbv	82
21) Allyl Chloride	4.38	41	47094	0.502	ppbv	90
22) trans-1,2-Dichloroethene	4.86	96	31540m	0.564	ppbv	
23) Vinyl Acetate	5.05	43	86031	0.411	ppbv #	96
24) 1,1-Dichloroethane	4.98	63	87562	0.537	ppbv	96
25) Ethyl Acetate	5.66	43	144620	0.517	ppbv	99
26) Hexane	5.66	57	61365	0.505	ppbv	89
27) Carbon Disulfide	4.52	76	72324	0.511	ppbv #	87
28) Methyl tert-Butyl Ether	5.02	73	87212	0.473	ppbv	97
29) Chloroform	5.73	83	110173	0.553	ppbv	96
30) Cyclohexane	7.13	84	36357m	0.386	ppbv	
31) cis-1,2-Dichloroethene	5.52	61	51728m	0.435	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	97260	0.540	ppbv	97
34) 2-Butanone	5.23	43	80912	0.430	ppbv	98
35) Carbon Tetrachloride	7.01	117	94922	0.495	ppbv	87
36) Benzene	6.88	78	107357	0.428	ppbv #	86
37) 1,2-Dichloroethane	6.29	62	79528	0.513	ppbv	97
38) Trichloroethene	7.84	130	47630m	0.488	ppbv	
39) 1,2-Dichloropropane	7.61	63	46490m	0.463	ppbv	
40) 1,4-Dioxane	7.86	88	21753m	0.544	ppbv	
41) Tetrahydrofuran	6.05	42	36144m	0.366	ppbv	
42) Bromodichloromethane	7.79	83	106715	0.511	ppbv #	92
43) Methyl Methacrylate	8.02	69	38641	0.365	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	194566	0.437	ppbv	97
45) t-1,3-Dichloropropene	9.29	75	35790	0.337	ppbv	94
46) cis-1,3-Dichloropropene	8.71	75	46877m	0.359	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	53041m	0.499	ppbv	
48) Dibromochloromethane	10.31	129	73722	0.452	ppbv	98
49) Bromoform	13.06	173	61026	0.436	ppbv	98
50) 4-Methyl-2-Pentanone	8.76	43	106383	0.397	ppbv	94
51) 2-Hexanone	10.16	43	71314	0.341	ppbv #	96
52) Tetrachloroethene	11.24	164	40798m	0.456	ppbv	
53) Toluene	9.82	91	98017	0.369	ppbv	96
54) 1,2-Dibromoethane	10.62	107	71843	0.461	ppbv #	76
56) 1,1,1,2-Tetrachloroethane	12.14	131	67689m	0.536	ppbv	
57) Chlorobenzene	12.16	112	120052	0.540	ppbv	91
58) Ethyl Benzene	12.73	91	131147	0.381	ppbv	99
59) m/p-Xylene	13.02	91	280362m	0.923	ppbv	
60) o-Xylene	13.71	91	123328	0.411	ppbv	99
61) Styrene	13.56	104	63927	0.338	ppbv	98
62) Isopropylbenzene	14.69	105	204670	0.458	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.70	83	121378m	0.512	ppbv	
64) n-propylbenzene	15.60	120	49799m	0.433	ppbv	
65) tert-Butylbenzene	16.77	119	169053	0.435	ppbv	91
66) Benzyl Chloride	17.02	91	47130m	0.366	ppbv	
67) sec-Butylbenzene	17.32	105	256013m	0.462	ppbv	
69) p-Isopropyltoluene	17.69	119	189582	0.423	ppbv	98
70) n-Butylbenzene	18.58	91	216868	0.455	ppbv	94
71) 2-Chlorotoluene	15.48	91	144266	0.427	ppbv	95
72) 4-Ethyltoluene	15.87	105	137199	0.409	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.02	105	133901	0.412	ppbv	88
74) 1,2,4-Trimethylbenzene	16.79	105	173608m	0.489	ppbv	
75) 1,3-Dichlorobenzene	17.03	146	118992m	0.569	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	94822m	0.478	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	94840m	0.484	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	92650m	0.552	ppbv	
79) Naphthalene	22.26	128	121783	0.445	ppbv #	93
80) Naphthalene, 2-methyl-	25.01	142	30932	0.449	ppbv #	87
81) 1,2,4-Trichlorobenzene	21.98	180	81489m	0.488	ppbv	

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

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