

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032148.D
 Acq On : 29 Jun 2018 19:59
 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
 7/2/2018 4:25:00 PM

Quant Time: Jun 29 20:48:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 20:48:54 2018
 QLast Update : Fri Jun 29 20:36:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1568535	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.38	114	3985609	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3821141	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	2909484	10.25	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.14	85	138288	0.84	ppbv	98
3) Chlorodifluoromethane	3.07	51	102131	0.50	ppbv	96
4) Chloromethane	3.23	50	52529	0.48	ppbv	91
5) Vinyl Chloride	3.35	62	51757	0.46	ppbv	99
6) Bromomethane	3.58	94	31940	0.49	ppbv	84
7) Chloroethane	3.67	64	19000m	0.46	ppbv	
8) Dichlorotetrafluoroethane	3.28	85	131453	0.58	ppbv	96
9) Propene	3.09	41	47311	0.48	ppbv	100
10) Heptane	8.34	43	140628	0.50	ppbv	99
11) Trichlorofluoromethane	4.07	101	117265	0.54	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.63	101	80312	0.55	ppbv	96
13) Ethanol	3.73	45	17535m	0.59	ppbv	
14) Bromoethene	3.86	108	37723m	0.52	ppbv	
15) Acetone	3.98	43	102755	0.49	ppbv	97
16) 1,3-Butadiene	3.43	39	46112	0.47	ppbv	95
17) tert-Butyl alcohol	4.45	59	62928m	0.50	ppbv	
18) 1,1-Dichloroethene	4.43	96	38633	0.54	ppbv	92
19) Isopropyl Alcohol	4.11	45	85767m	0.52	ppbv	
20) Methylene Chloride	4.48	84	39889	0.57	ppbv	93
21) Allyl Chloride	4.55	41	63226	0.49	ppbv	93
22) trans-1,2-Dichloroethene	5.05	96	39901	0.54	ppbv	96
23) Vinyl Acetate	5.24	43	185211m	0.58	ppbv	
24) 1,1-Dichloroethane	5.17	63	117885	0.49	ppbv #	96
25) Ethyl Acetate	5.86	43	207788	0.45	ppbv	99
26) Hexane	5.86	57	96619	0.48	ppbv	96
27) Carbon Disulfide	4.70	76	83437	0.41	ppbv #	71
28) Methyl tert-Butyl Ether	5.21	73	171605	0.67	ppbv	99
29) Chloroform	5.93	83	136389	0.51	ppbv	95
30) Cyclohexane	7.34	84	90955	0.55	ppbv	93
31) cis-1,2-Dichloroethene	5.73	61	92252m	0.51	ppbv	
32) 1,1,1-Trichloroethane	6.71	97	137024	0.49	ppbv	99
34) 2-Butanone	5.42	43	134158	0.41	ppbv	100
35) Carbon Tetrachloride	7.23	117	143583	0.52	ppbv	97
36) Benzene	7.10	78	212725	0.49	ppbv	97
37) 1,2-Dichloroethane	6.50	62	101561	0.46	ppbv	98
38) Trichloroethene	8.06	130	79449	0.48	ppbv	93
39) 1,2-Dichloropropane	7.83	63	82180	0.52	ppbv	94
40) 1,4-Dioxane	8.09	88	34784m	0.47	ppbv	
41) Tetrahydrofuran	6.26	42	79513m	0.41	ppbv	
42) Bromodichloromethane	8.01	83	154056m	0.51	ppbv	
43) Methyl Methacrylate	8.24	69	82380	0.48	ppbv	96

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44) 2,2,4-Trimethylpentane	8.09	57	376484	0.53	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	91477	0.43	ppbv	90
46) cis-1,3-Dichloropropene	8.93	75	118060m	0.44	ppbv	
47) 1,1,2-Trichloroethane	9.71	97	87262	0.49	ppbv #	88
48) Dibromochloromethane	10.55	129	118576	0.44	ppbv	100
49) Bromoform	13.31	173	96899	0.47	ppbv	97
50) 4-Methyl-2-Pentanone	8.98	43	219425	0.44	ppbv	100
51) 2-Hexanone	10.40	43	173646	0.35	ppbv #	95
52) Tetrachloroethene	11.48	164	72073	0.45	ppbv	93
53) Toluene	10.04	91	252496m	0.48	ppbv	
54) 1,2-Dibromoethane	10.86	107	123214	0.46	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.38	131	96087m	0.57	ppbv	
57) Chlorobenzene	12.40	112	190355	0.53	ppbv	90
58) Ethyl Benzene	12.96	91	357946	0.54	ppbv	95
59) m/p-Xylene	13.22	91	575297m	1.09	ppbv	
60) o-Xylene	13.95	91	291346	0.56	ppbv	98
61) Styrene	13.79	104	225567	1.44	ppbv	98
62) Isopropylbenzene	14.93	105	421124	0.60	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.94	83	208043	0.51	ppbv	99
64) n-propylbenzene	15.83	120	102213	0.56	ppbv	78
65) tert-Butylbenzene	17.01	119	368324	0.60	ppbv	94
66) Benzyl Chloride	17.26	91	168114	2.15	ppbv	99
67) sec-Butylbenzene	17.56	105	557782	0.62	ppbv	98
69) p-Isopropyltoluene	17.92	119	430213	0.59	ppbv	96
70) n-Butylbenzene	18.82	91	451152	0.59	ppbv	99
71) 2-Chlorotoluene	15.72	91	313331	0.59	ppbv	96
72) 4-Ethyltoluene	16.10	105	333927	0.57	ppbv	95
73) 1,3,5-Trimethylbenzene	16.26	105	322039	0.61	ppbv	92
74) 1,2,4-Trimethylbenzene	17.03	105	333887	0.59	ppbv #	89
75) 1,3-Dichlorobenzene	17.27	146	185019	0.54	ppbv	97
76) 1,4-Dichlorobenzene	17.41	146	194826m	0.56	ppbv	
77) 1,2-Dichlorobenzene	18.09	146	184847	0.52	ppbv	95
78) Hexachloro-1,3-Butadiene	23.64	225	70311m	0.72	ppbv	
79) Naphthalene	22.54	128	261875m	0.45	ppbv	
80) Naphthalene, 2-methyl-	25.20	142	56289	0.16	ppbv	98
81) 1,2,4-Trichlorobenzene	22.25	180	116028m	0.51	ppbv	

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

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