

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032231.D
 Acq On : 12 Jul 2018 20:07
 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
 7/13/2018 5:22:13 PM

Quant Time: Jul 13 04:05:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 03:36:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	2010849	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4061838	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4637201	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3691105	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	188147	0.69	ppbv	95
3) Chlorodifluoromethane	3.07	51	126326	0.50	ppbv	98
4) Chloromethane	3.22	50	79284	0.58	ppbv	99
5) Vinyl Chloride	3.35	62	78680	0.58	ppbv #	88
6) Bromomethane	3.58	94	42936m	0.55	ppbv	
7) Chloroethane	3.66	64	24890	0.51	ppbv #	83
8) Dichlorotetrafluoroethane	3.27	85	194548	0.64	ppbv	99
9) Propene	3.09	41	54269	0.47	ppbv	98
10) Heptane	8.33	43	130055	0.39	ppbv	96
11) Trichlorofluoromethane	4.07	101	156761	0.55	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.62	101	98673	0.52	ppbv	97
13) Ethanol	3.72	45	19057m	0.55	ppbv	
14) Bromoethene	3.85	108	45332	0.51	ppbv	100
15) Acetone	3.97	43	134853	0.58	ppbv	95
16) 1,3-Butadiene	3.42	39	62256	0.54	ppbv	95
17) tert-Butyl alcohol	4.45	59	55413	0.39	ppbv #	91
18) 1,1-Dichloroethene	4.42	96	44317	0.50	ppbv	96
19) Isopropyl Alcohol	4.11	45	85661	0.45	ppbv #	91
20) Methylene Chloride	4.48	84	46165	0.54	ppbv	96
21) Allyl Chloride	4.54	41	68871	0.44	ppbv	98
22) trans-1,2-Dichloroethene	5.04	96	37687	0.40	ppbv	88
23) Vinyl Acetate	5.23	43	174678	0.41	ppbv #	98
24) 1,1-Dichloroethane	5.16	63	134951	0.49	ppbv	96
25) Ethyl Acetate	5.85	43	234047	0.48	ppbv	98
26) Hexane	5.86	57	106253	0.47	ppbv	95
27) Carbon Disulfide	4.69	76	85705	0.39	ppbv #	84
28) Methyl tert-Butyl Ether	5.20	73	148871	0.38	ppbv	97
29) Chloroform	5.92	83	174566	0.53	ppbv	99
30) Cyclohexane	7.33	84	77699m	0.36	ppbv	
31) cis-1,2-Dichloroethene	5.72	61	97539	0.43	ppbv	92
32) 1,1,1-Trichloroethane	6.70	97	150210	0.43	ppbv	98
34) 2-Butanone	5.41	43	150351	0.58	ppbv	100
35) Carbon Tetrachloride	7.22	117	146804m	0.52	ppbv	
36) Benzene	7.09	78	207676	0.52	ppbv	97
37) 1,2-Dichloroethane	6.49	62	123269	0.62	ppbv	99
38) Trichloroethene	8.05	130	77000m	0.51	ppbv	
39) 1,2-Dichloropropane	7.82	63	81936	0.53	ppbv	89
40) 1,4-Dioxane	8.09	88	32893m	0.56	ppbv	
41) Tetrahydrofuran	6.25	42	79120m	0.51	ppbv	
42) Bromodichloromethane	8.00	83	161850	0.53	ppbv	97
43) Methyl Methacrylate	8.23	69	71898	0.44	ppbv	98

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

44) 2,2,4-Trimethylpentane	8.08	57	357281	0.52	ppbv	98
45) t-1,3-Dichloropropene	9.50	75	73884	0.37	ppbv #	87
46) cis-1,3-Dichloropropene	8.92	75	115620m	0.47	ppbv	
47) 1,1,2-Trichloroethane	9.71	97	100315	0.62	ppbv #	89
48) Dibromochloromethane	10.55	129	129521	0.52	ppbv	98
49) Bromoform	13.29	173	101965m	0.49	ppbv	
50) 4-Methyl-2-Pentanone	8.98	43	243807	0.57	ppbv	100
51) 2-Hexanone	10.38	43	198112m	0.56	ppbv	
52) Tetrachloroethene	11.46	164	79477	0.56	ppbv	84
53) Toluene	10.04	91	240367	0.51	ppbv	99
54) 1,2-Dibromoethane	10.85	107	140906	0.58	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.38	131	112693	0.55	ppbv #	1
57) Chlorobenzene	12.40	112	229142m	0.57	ppbv	
58) Ethyl Benzene	12.96	91	340597	0.46	ppbv	95
59) m/p-Xylene	13.24	91	597373m	1.00	ppbv	
60) o-Xylene	13.94	91	296598	0.50	ppbv	98
61) Styrene	13.78	104	193290	0.40	ppbv	99
62) Isopropylbenzene	14.92	105	418893	0.46	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.93	83	250816	0.54	ppbv	100
64) n-propylbenzene	15.81	120	102344m	0.43	ppbv	
65) tert-Butylbenzene	17.00	119	349431	0.44	ppbv	96
66) Benzyl Chloride	17.25	91	119799	0.25	ppbv	98
67) sec-Butylbenzene	17.56	105	493564	0.42	ppbv	99
69) p-Isopropyltoluene	17.91	119	376026	0.40	ppbv	98
70) n-Butylbenzene	18.81	91	418826	0.43	ppbv	95
71) 2-Chlorotoluene	15.71	91	316839	0.45	ppbv	98
72) 4-Ethyltoluene	16.09	105	303994	0.40	ppbv	97
73) 1,3,5-Trimethylbenzene	16.25	105	282240	0.39	ppbv	100
74) 1,2,4-Trimethylbenzene	17.02	105	312953	0.43	ppbv	97
75) 1,3-Dichlorobenzene	17.26	146	196693	0.48	ppbv	98
76) 1,4-Dichlorobenzene	17.40	146	181625	0.44	ppbv	98
77) 1,2-Dichlorobenzene	18.09	146	195114m	0.48	ppbv	
78) Hexachloro-1,3-Butadiene	23.63	225	61892m	0.44	ppbv	
79) Naphthalene	22.53	128	132289m	0.20	ppbv	
80) Naphthalene, 2-methyl-	25.20	142	8920	0.04	ppbv	84
81) 1,2,4-Trichlorobenzene	22.25	180	78098m	0.27	ppbv	

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

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