

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031962.D
 Acq On : 3 May 2018 12:44
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:00:57 PM

Quant Time: May 03 14:09:04 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 2018
 QLast Update : Thu May 03 12:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1277301	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2641146	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2594115	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.72	95	1994080	9.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	144590	0.55	ppbv	97
3) Chlorodifluoromethane	3.10	51	132199	0.89	ppbv	95
4) Chloromethane	3.26	50	68480	0.90	ppbv	89
5) Vinyl Chloride	3.38	62	70019	0.82	ppbv	91
6) Bromomethane	3.61	94	50333	0.90	ppbv	92
7) Chloroethane	3.70	64	29437m	0.86	ppbv	
8) Dichlorotetrafluoroethane	3.31	85	175215	0.81	ppbv	99
9) Propene	3.12	41	44960	0.88	ppbv	99
10) Heptane	8.38	43	158173	0.95	ppbv	98
11) Trichlorofluoromethane	4.11	101	246954	0.96	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.66	101	154699	0.92	ppbv	91
13) Ethanol	3.75	45	18939	1.09	ppbv	89
14) Bromoethene	3.89	108	58783m	0.93	ppbv	
15) Acetone	4.01	43	234493	1.19	ppbv	100
16) 1,3-Butadiene	3.45	39	57168	0.79	ppbv #	77
17) tert-Butyl alcohol	4.48	59	88154m	1.09	ppbv	
18) 1,1-Dichloroethene	4.46	96	70588	0.98	ppbv	83
19) Isopropyl Alcohol	4.13	45	121598	1.11	ppbv #	96
20) Methylene Chloride	4.52	84	68735	0.96	ppbv	90
21) Allyl Chloride	4.59	41	104736	0.93	ppbv	97
22) trans-1,2-Dichloroethene	5.07	96	71063	0.95	ppbv	94
23) Vinyl Acetate	5.27	43	229997	1.15	ppbv	97
24) 1,1-Dichloroethane	5.21	63	211690	1.07	ppbv	97
25) Ethyl Acetate	5.89	43	333180	1.09	ppbv	99
26) Hexane	5.90	57	155294	1.09	ppbv	97
27) Carbon Disulfide	4.73	76	170882	0.92	ppbv #	89
28) Methyl tert-Butyl Ether	5.23	73	194300	1.10	ppbv	99
29) Chloroform	5.97	83	249446	1.03	ppbv	98
30) Cyclohexane	7.38	84	95651	0.94	ppbv #	66
31) cis-1,2-Dichloroethene	5.76	61	138856	1.07	ppbv	96
32) 1,1,1-Trichloroethane	6.75	97	212756	0.90	ppbv	99
34) 2-Butanone	5.45	43	245661	1.34	ppbv	99
35) Carbon Tetrachloride	7.27	117	208604	0.91	ppbv	94
36) Benzene	7.13	78	252146	1.06	ppbv	97
37) 1,2-Dichloroethane	6.54	62	201987	1.14	ppbv #	94
38) Trichloroethene	8.09	130	103103	1.07	ppbv	91
39) 1,2-Dichloropropane	7.87	63	91466	1.04	ppbv	95
40) 1,4-Dioxane	8.11	88	42012m	1.17	ppbv	
41) Tetrahydrofuran	6.29	42	87750	1.03	ppbv	99
42) Bromodichloromethane	8.05	83	214271	1.01	ppbv	99
43) Methyl Methacrylate	8.27	69	86430	1.03	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	441299	1.08	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	108750m	1.00	ppbv	
46) cis-1,3-Dichloropropene	8.97	75	138650	1.00	ppbv #	83
47) 1,1,2-Trichloroethane	9.76	97	111860	1.07	ppbv	95
48) Dibromochloromethane	10.59	129	173173	1.02	ppbv	99
49) Bromoform	13.35	173	129819	0.99	ppbv	99
50) 4-Methyl-2-Pentanone	9.02	43	218839	1.04	ppbv	98
51) 2-Hexanone	10.42	43	200988	1.10	ppbv #	96
52) Tetrachloroethene	11.52	164	98463	1.06	ppbv	88
53) Toluene	10.09	91	281222	1.06	ppbv	99
54) 1,2-Dibromoethane	10.91	107	159884	1.05	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.43	131	130922m	1.07	ppbv	
57) Chlorobenzene	12.45	112	247361	1.12	ppbv	92
58) Ethyl Benzene	13.01	91	392716	1.09	ppbv	96
59) m/p-Xylene	13.29	91	688091m	2.20	ppbv	
60) o-Xylene	13.99	91	346011m	1.11	ppbv	
61) Styrene	13.84	104	57413m	0.96	ppbv	
62) Isopropylbenzene	14.97	105	435476	1.08	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	238979	0.99	ppbv	100
64) n-propylbenzene	15.87	120	107434	1.10	ppbv	97
65) tert-Butylbenzene	17.05	119	394017	1.14	ppbv	99
66) Benzyl Chloride	17.30	91	29188m	0.94	ppbv	
67) sec-Butylbenzene	17.60	105	546803	1.10	ppbv	99
69) p-Isopropyltoluene	17.96	119	430257	1.12	ppbv	99
70) n-Butylbenzene	18.86	91	450524	1.12	ppbv	98
71) 2-Chlorotoluene	15.76	91	316875	1.09	ppbv	100
72) 4-Ethyltoluene	16.14	105	339790	1.06	ppbv	98
73) 1,3,5-Trimethylbenzene	16.30	105	315231	1.08	ppbv	99
74) 1,2,4-Trimethylbenzene	17.07	105	358185	1.10	ppbv	94
75) 1,3-Dichlorobenzene	17.31	146	219000	1.09	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	209570	1.08	ppbv	95
77) 1,2-Dichlorobenzene	18.13	146	221619	1.12	ppbv	98
78) Hexachloro-1,3-Butadiene	23.68	225	78820m	1.04	ppbv	
79) Naphthalene	22.59	128	219925	1.20	ppbv	99
80) Naphthalene, 2-methyl-	25.24	142	32358	0.90	ppbv	96
81) 1,2,4-Trichlorobenzene	22.31	180	129004m	1.27	ppbv	

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

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