

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031416.D
 Acq On : 22 Jan 2018 13:55
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:10 PM

Quant Time: Jan 22 17:11:49 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 18 2018
 QLast Update : Mon Jan 22 16:42:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.90	49	1334018	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3186526	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3281957	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2572055	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.17	85	357478	1.39	ppbv	97
3) Chlorodifluoromethane	3.11	51	379707	1.93	ppbv	100
4) Chloromethane	3.27	50	172954	1.95	ppbv	98
5) Vinyl Chloride	3.40	62	171770	1.87	ppbv	99
6) Bromomethane	3.62	94	117516	1.92	ppbv	99
7) Chloroethane	3.71	64	69194	1.93	ppbv	98
8) Dichlorotetrafluoroethane	3.32	85	448307	1.90	ppbv	99
9) Propene	3.13	41	134780	1.86	ppbv	100
10) Heptane	8.40	43	430618	1.97	ppbv	99
11) Trichlorofluoromethane	4.13	101	551665	2.01	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.68	101	349564	2.01	ppbv	96
13) Ethanol	3.77	45	37396m	1.03	ppbv	
14) Bromoethene	3.90	108	139990	1.95	ppbv	100
15) Acetone	4.02	43	399260	1.80	ppbv	99
16) 1,3-Butadiene	3.47	39	160674	1.94	ppbv	98
17) tert-Butyl alcohol	4.49	59	186554	1.84	ppbv	100
18) 1,1-Dichloroethene	4.48	96	149388	1.96	ppbv	96
19) Isopropyl Alcohol	4.14	45	239027	1.58	ppbv #	98
20) Methylene Chloride	4.53	84	150016	1.88	ppbv	95
21) Allyl Chloride	4.60	41	229054	1.91	ppbv	98
22) trans-1,2-Dichloroethene	5.10	96	153783	1.89	ppbv	99
23) Vinyl Acetate	5.29	43	470353	1.87	ppbv	98
24) 1,1-Dichloroethane	5.22	63	409769	1.93	ppbv	99
25) Ethyl Acetate	5.91	43	672034	1.78	ppbv	100
26) Hexane	5.92	57	300497	1.90	ppbv	99
27) Carbon Disulfide	4.75	76	402526	1.91	ppbv	98
28) Methyl tert-Butyl Ether	5.25	73	371812	1.93	ppbv	99
29) Chloroform	5.99	83	508387	1.87	ppbv	100
30) Cyclohexane	7.40	84	238322	1.88	ppbv #	82
31) cis-1,2-Dichloroethene	5.78	61	285197	1.85	ppbv	94
32) 1,1,1-Trichloroethane	6.77	97	522986	1.84	ppbv	98
34) 2-Butanone	5.47	43	435274	1.64	ppbv	100
35) Carbon Tetrachloride	7.29	117	543288	1.79	ppbv	94
36) Benzene	7.16	78	602635	1.83	ppbv	98
37) 1,2-Dichloroethane	6.56	62	456900	1.88	ppbv	100
38) Trichloroethene	8.12	130	247024	1.80	ppbv	93
39) 1,2-Dichloropropane	7.89	63	225971	1.85	ppbv	97
40) 1,4-Dioxane	8.13	88	87488	1.43	ppbv #	56
41) Tetrahydrofuran	6.31	42	235147	1.75	ppbv	96
42) Bromodichloromethane	8.08	83	568833	1.90	ppbv	99
43) Methyl Methacrylate	8.30	69	224595	1.83	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	1075938	1.95	ppbv	100
45) t-1,3-Dichloropropene	9.58	75	311500	1.84	ppbv	98
46) cis-1,3-Dichloropropene	9.00	75	388987	1.86	ppbv	99
47) 1,1,2-Trichloroethane	9.78	97	266665	1.86	ppbv	97
48) Dibromochloromethane	10.62	129	470737	1.85	ppbv	99
49) Bromoform	13.37	173	357126	1.79	ppbv	99
50) 4-Methyl-2-Pentanone	9.04	43	605806	1.73	ppbv	98
51) 2-Hexanone	10.45	43	568342	1.60	ppbv #	97
52) Tetrachloroethene	11.54	164	231411	1.78	ppbv	95
53) Toluene	10.12	91	731342	1.88	ppbv	98
54) 1,2-Dibromoethane	10.93	107	414686	1.84	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.45	131	327824m	1.94	ppbv	
57) Chlorobenzene	12.47	112	605113	1.95	ppbv	99
58) Ethyl Benzene	13.03	91	1045955	1.95	ppbv	99
59) m/p-Xylene	13.29	91	1783924m	4.02	ppbv	
60) o-Xylene	14.02	91	909196	2.01	ppbv	98
61) Styrene	13.85	104	196333	1.98	ppbv	99
62) Isopropylbenzene	14.99	105	1132925	1.99	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	615455	1.80	ppbv	99
64) n-propylbenzene	15.90	120	280177m	1.96	ppbv	
65) tert-Butylbenzene	17.07	119	1020566	2.02	ppbv	98
66) Benzyl Chloride	17.32	91	94674m	1.99	ppbv	
67) sec-Butylbenzene	17.63	105	1444511	2.01	ppbv	99
69) p-Isopropyltoluene	17.98	119	1164391	2.04	ppbv	99
70) n-Butylbenzene	18.88	91	1239012	2.08	ppbv	98
71) 2-Chlorotoluene	15.79	91	863080	1.98	ppbv	100
72) 4-Ethyltoluene	16.17	105	933144	2.02	ppbv	99
73) 1,3,5-Trimethylbenzene	16.32	105	848193	2.06	ppbv	95
74) 1,2,4-Trimethylbenzene	17.09	105	937175	2.09	ppbv #	92
75) 1,3-Dichlorobenzene	17.34	146	577017	2.00	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	561574	1.96	ppbv	98
77) 1,2-Dichlorobenzene	18.16	146	560585	1.97	ppbv	100
78) Hexachloro-1,3-Butadiene	23.71	225	173412m	1.90	ppbv	
79) Naphthalene	22.61	128	582584	2.68	ppbv	96
80) Naphthalene, 2-methyl-	25.25	142	128030	2.37	ppbv	98
81) 1,2,4-Trichlorobenzene	22.34	180	305419	2.41	ppbv	99

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

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