

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031417.D
 Acq On : 22 Jan 2018 14:32
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:11 PM

Quant Time: Jan 22 17:12:23 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 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	1363031	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	3160661	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3121678	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2519155	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.17	85	227441	0.86	ppbv	99
3) Chlorodifluoromethane	3.11	51	191233	0.95	ppbv	98
4) Chloromethane	3.27	50	84270	0.93	ppbv	93
5) Vinyl Chloride	3.40	62	85707	0.91	ppbv	99
6) Bromomethane	3.63	94	60973	0.97	ppbv	93
7) Chloroethane	3.71	64	34486	0.94	ppbv	90
8) Dichlorotetrafluoroethane	3.32	85	236862	0.98	ppbv	99
9) Propene	3.14	41	64233	0.87	ppbv	99
10) Heptane	8.40	43	198345	0.89	ppbv	97
11) Trichlorofluoromethane	4.12	101	275367	0.98	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.68	101	174655	0.98	ppbv	99
13) Ethanol	3.77	45	21052m	0.57	ppbv	
14) Bromoethene	3.90	108	64124	0.88	ppbv	99
15) Acetone	4.03	43	192853	0.85	ppbv	99
16) 1,3-Butadiene	3.47	39	83281	0.98	ppbv	93
17) tert-Butyl alcohol	4.50	59	91295	0.88	ppbv	100
18) 1,1-Dichloroethene	4.48	96	71794	0.92	ppbv	95
19) Isopropyl Alcohol	4.15	45	120268	0.78	ppbv #	96
20) Methylene Chloride	4.53	84	73629	0.90	ppbv	97
21) Allyl Chloride	4.60	41	108652	0.89	ppbv	96
22) trans-1,2-Dichloroethene	5.10	96	75440	0.91	ppbv	93
23) Vinyl Acetate	5.29	43	203515	0.79	ppbv #	98
24) 1,1-Dichloroethane	5.22	63	202097	0.93	ppbv	99
25) Ethyl Acetate	5.92	43	331263	0.86	ppbv	98
26) Hexane	5.92	57	149673	0.93	ppbv	98
27) Carbon Disulfide	4.75	76	189743	0.88	ppbv	97
28) Methyl tert-Butyl Ether	5.26	73	171439	0.87	ppbv	100
29) Chloroform	5.99	83	258381	0.93	ppbv	97
30) Cyclohexane	7.40	84	110435	0.85	ppbv	96
31) cis-1,2-Dichloroethene	5.78	61	136171	0.87	ppbv	94
32) 1,1,1-Trichloroethane	6.77	97	258908	0.89	ppbv	99
34) 2-Butanone	5.47	43	198557	0.76	ppbv	100
35) Carbon Tetrachloride	7.29	117	274080	0.91	ppbv	99
36) Benzene	7.16	78	280666	0.86	ppbv	100
37) 1,2-Dichloroethane	6.56	62	228037	0.95	ppbv	100
38) Trichloroethene	8.12	130	116802m	0.86	ppbv	
39) 1,2-Dichloropropane	7.90	63	109003	0.90	ppbv	97
40) 1,4-Dioxane	8.14	88	44033	0.73	ppbv	75
41) Tetrahydrofuran	6.31	42	107886	0.81	ppbv	98
42) Bromodichloromethane	8.07	83	268777	0.90	ppbv #	98
43) Methyl Methacrylate	8.30	69	97692	0.80	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	498031	0.91	ppbv	98
45) t-1,3-Dichloropropene	9.58	75	136762	0.81	ppbv	91
46) cis-1,3-Dichloropropene	9.00	75	168582	0.81	ppbv	99
47) 1,1,2-Trichloroethane	9.78	97	127762	0.90	ppbv	97
48) Dibromochloromethane	10.62	129	218925	0.87	ppbv	99
49) Bromoform	13.37	173	165866	0.84	ppbv	99
50) 4-Methyl-2-Pentanone	9.04	43	271563	0.78	ppbv	98
51) 2-Hexanone	10.45	43	249845	0.71	ppbv #	95
52) Tetrachloroethene	11.54	164	108302	0.84	ppbv	96
53) Toluene	10.11	91	328216	0.85	ppbv	100
54) 1,2-Dibromoethane	10.93	107	189767	0.85	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.45	131	155194	0.96	ppbv #	1
57) Chlorobenzene	12.48	112	289168	0.98	ppbv #	96
58) Ethyl Benzene	13.03	91	475779	0.93	ppbv	95
59) m/p-Xylene	13.32	91	828351m	1.96	ppbv	
60) o-Xylene	14.02	91	420512	0.98	ppbv	99
61) Styrene	13.85	104	79002	0.84	ppbv	99
62) Isopropylbenzene	15.00	105	523464	0.97	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.00	83	292576	0.90	ppbv	100
64) n-propylbenzene	15.89	120	125493	0.92	ppbv	85
65) tert-Butylbenzene	17.07	119	459097	0.95	ppbv	97
66) Benzyl Chloride	17.32	91	43225m	0.96	ppbv	
67) sec-Butylbenzene	17.62	105	643581	0.94	ppbv	99
69) p-Isopropyltoluene	17.98	119	515050	0.95	ppbv	98
70) n-Butylbenzene	18.88	91	542696	0.96	ppbv	98
71) 2-Chlorotoluene	15.79	91	395672	0.95	ppbv	99
72) 4-Ethyltoluene	16.17	105	414439	0.94	ppbv	99
73) 1,3,5-Trimethylbenzene	16.32	105	382259	0.98	ppbv	97
74) 1,2,4-Trimethylbenzene	17.09	105	428947	1.01	ppbv #	89
75) 1,3-Dichlorobenzene	17.33	146	260947	0.95	ppbv	96
76) 1,4-Dichlorobenzene	17.48	146	252214	0.93	ppbv	99
77) 1,2-Dichlorobenzene	18.16	146	260029m	0.96	ppbv	
78) Hexachloro-1,3-Butadiene	23.71	225	131310	1.51	ppbv	98
79) Naphthalene	22.61	128	239618	1.16	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	47327	0.92	ppbv	98
81) 1,2,4-Trichlorobenzene	22.35	180	134600m	1.11	ppbv	

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

