

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031214.D
 Acq On : 13 Dec 2017 23:45
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 12/15/2017 4:06:55 PM

Quant Time: Dec 14 04:00:03 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 03:40:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	2346824	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	5304461	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	4553144	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	3219547	9.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.50%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.18	85	152916	0.64	ppbv	96
3) Chlorodifluoromethane	3.12	51	201731	0.63	ppbv	100
4) Chloromethane	3.27	50	106817	0.89	ppbv	94
5) Vinyl Chloride	3.40	62	104456	0.79	ppbv	98
6) Bromomethane	3.63	94	65540	0.82	ppbv	95
7) Chloroethane	3.71	64	39932	0.85	ppbv	93
8) Dichlorotetrafluoroethane	3.32	85	237758	0.85	ppbv	99
9) Propene	3.13	41	94699	0.71	ppbv	100
10) Heptane	8.41	43	393984	0.99	ppbv	99
11) Trichlorofluoromethane	4.13	101	251408	0.89	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	235480	1.41	ppbv	99
13) Ethanol	3.77	45	32994	1.29	ppbv	100
14) Bromoethene	3.91	108	74814	0.87	ppbv	98
15) Acetone	4.03	43	255318	1.08	ppbv	95
16) 1,3-Butadiene	3.47	39	101661	0.92	ppbv	98
17) tert-Butyl alcohol	4.50	59	130551	1.14	ppbv #	94
18) 1,1-Dichloroethene	4.48	96	78620	0.97	ppbv	92
19) Isopropyl Alcohol	4.16	45	143687	1.04	ppbv	90
20) Methylene Chloride	4.54	84	80227	0.98	ppbv	98
21) Allyl Chloride	4.61	41	137520	1.17	ppbv	98
22) trans-1,2-Dichloroethene	5.10	96	127310	1.25	ppbv	100
23) Vinyl Acetate	5.30	43	587654	1.40	ppbv	99
24) 1,1-Dichloroethane	5.23	63	385459	1.07	ppbv	99
25) Ethyl Acetate	5.92	43	671389	1.15	ppbv	99
26) Hexane	5.93	57	321751	1.13	ppbv	98
27) Carbon Disulfide	4.76	76	295611	1.48	ppbv #	76
28) Methyl tert-Butyl Ether	5.26	73	415600	1.32	ppbv	100
29) Chloroform	5.99	83	427287	1.05	ppbv	100
30) Cyclohexane	7.41	84	240599	1.06	ppbv #	74
31) cis-1,2-Dichloroethene	5.78	61	286635	1.05	ppbv	93
32) 1,1,1-Trichloroethane	6.77	97	407024	1.20	ppbv	100
34) 2-Butanone	5.48	43	441842	1.02	ppbv	99
35) Carbon Tetrachloride	7.29	117	400418	1.07	ppbv	97
36) Benzene	7.16	78	602730	0.99	ppbv	98
37) 1,2-Dichloroethane	6.57	62	329813	0.92	ppbv	98
38) Trichloroethene	8.12	130	224596	0.97	ppbv	98
39) 1,2-Dichloropropane	7.89	63	210855	0.91	ppbv	96
40) 1,4-Dioxane	8.14	88	76563	0.83	ppbv #	83
41) Tetrahydrofuran	6.31	42	236581	1.04	ppbv	98
42) Bromodichloromethane	8.08	83	405179	0.95	ppbv	99
43) Methyl Methacrylate	8.30	69	206503	0.97	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	980883	0.97	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	263146	1.00	ppbv	96
46) cis-1,3-Dichloropropene	9.00	75	341724	0.98	ppbv	99
47) 1,1,2-Trichloroethane	9.78	97	223329	0.91	ppbv	95
48) Dibromochloromethane	10.62	129	335266	1.01	ppbv	100
49) Bromoform	13.37	173	230309	0.92	ppbv	99
50) 4-Methyl-2-Pentanone	9.04	43	505837	0.92	ppbv	100
51) 2-Hexanone	10.45	43	456366	0.88	ppbv #	98
52) Tetrachloroethene	11.55	164	208816	0.97	ppbv	95
53) Toluene	10.11	91	668029	0.97	ppbv	97
54) 1,2-Dibromoethane	10.93	107	326425	0.93	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.45	131	231849	1.24	ppbv #	1
57) Chlorobenzene	12.47	112	489064	1.10	ppbv	97
58) Ethyl Benzene	13.03	91	857730	1.10	ppbv	99
59) m/p-Xylene	13.32	91	1391975m	2.12	ppbv	
60) o-Xylene	14.02	91	687075	1.05	ppbv	100
61) Styrene	13.85	104	189060	1.15	ppbv	99
62) Isopropylbenzene	15.00	105	901523	1.15	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	442335	0.87	ppbv	99
64) n-propylbenzene	15.89	120	238350	1.11	ppbv	95
65) tert-Butylbenzene	17.08	119	812378	1.18	ppbv	98
66) Benzyl Chloride	17.33	91	79460	1.35	ppbv #	94
67) sec-Butylbenzene	17.63	105	1110498	1.07	ppbv	99
69) p-Isopropyltoluene	17.98	119	921311	1.15	ppbv	100
70) n-Butylbenzene	18.88	91	892777	1.01	ppbv	99
71) 2-Chlorotoluene	15.79	91	665926	1.05	ppbv	99
72) 4-Ethyltoluene	16.17	105	742189	1.12	ppbv	99
73) 1,3,5-Trimethylbenzene	16.32	105	664144	1.09	ppbv	95
74) 1,2,4-Trimethylbenzene	17.09	105	719730	1.07	ppbv #	89
75) 1,3-Dichlorobenzene	17.34	146	451087	1.06	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	446624	1.04	ppbv	97
77) 1,2-Dichlorobenzene	18.16	146	433187	1.03	ppbv	99
78) Hexachloro-1,3-Butadiene	23.71	225	97083	1.21	ppbv	99
79) Naphthalene	22.61	128	550270	1.21	ppbv	97
80) Naphthalene, 2-methyl-	25.25	142	178432	1.33	ppbv	97
81) 1,2,4-Trichlorobenzene	22.34	180	255582	1.12	ppbv	100

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

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