

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031852.D
 Acq On : 12 Apr 2018 00:59
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:05:56 PM

Quant Time: Apr 12 04:26:50 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 12 04:26:50 2018
 QLast Update : Thu Apr 12 04:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1292141	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2992757	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2993412	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.72	95	2346406	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	598994	2.482	ppbv	97
3) Chlorodifluoromethane	3.10	51	347820	2.098	ppbv	100
4) Chloromethane	3.26	50	174522	2.105	ppbv	93
5) Vinyl Chloride	3.38	62	183896	2.204	ppbv	99
6) Bromomethane	3.61	94	131271	2.299	ppbv	99
7) Chloroethane	3.70	64	78008	2.261	ppbv #	85
8) Dichlorotetrafluoroethane	3.31	85	484870	2.182	ppbv	99
9) Propene	3.13	41	120050	1.824	ppbv	99
10) Heptane	8.38	43	379849	1.934	ppbv	99
11) Trichlorofluoromethane	4.11	101	564239	2.334	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.67	101	361572	2.260	ppbv	99
13) Ethanol	3.76	45	42215m	2.023	ppbv	
14) Bromoethene	3.89	108	141722	2.174	ppbv	99
15) Acetone	4.01	43	455382	2.096	ppbv	99
16) 1,3-Butadiene	3.46	39	156463	1.992	ppbv	91
17) tert-Butyl alcohol	4.48	59	180251	1.828	ppbv	100
18) 1,1-Dichloroethene	4.46	96	156368	2.164	ppbv	99
19) Isopropyl Alcohol	4.13	45	241064	2.035	ppbv #	97
20) Methylene Chloride	4.52	84	153091	2.115	ppbv	96
21) Allyl Chloride	4.59	41	246795	2.130	ppbv	97
22) trans-1,2-Dichloroethene	5.08	96	165583	2.144	ppbv	98
23) Vinyl Acetate	5.27	43	446869	1.885	ppbv	99
24) 1,1-Dichloroethane	5.21	63	449029	2.236	ppbv	99
25) Ethyl Acetate	5.89	43	681533	2.036	ppbv	99
26) Hexane	5.91	57	315857	2.052	ppbv	97
27) Carbon Disulfide	4.74	76	400401	2.381	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	406989	1.953	ppbv	100
29) Chloroform	5.97	83	519359	2.118	ppbv	97
30) Cyclohexane	7.39	84	239828m	1.951	ppbv	
31) cis-1,2-Dichloroethene	5.76	61	275675	1.925	ppbv	95
32) 1,1,1-Trichloroethane	6.75	97	504331	1.961	ppbv	99
34) 2-Butanone	5.45	43	454638	2.211	ppbv	98
35) Carbon Tetrachloride	7.27	117	516142	2.304	ppbv	96
36) Benzene	7.14	78	588306	2.088	ppbv #	95
37) 1,2-Dichloroethane	6.54	62	427255	2.275	ppbv	98
38) Trichloroethene	8.10	130	235627	2.066	ppbv	92
39) 1,2-Dichloropropane	7.87	63	217334	2.134	ppbv	95
40) 1,4-Dioxane	8.11	88	89670m	2.192	ppbv	
41) Tetrahydrofuran	6.29	42	211666	2.052	ppbv	99
42) Bromodichloromethane	8.05	83	519581	2.333	ppbv	96
43) Methyl Methacrylate	8.28	69	206748	2.079	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	1036823	2.261	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	265338	1.968	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	342294	2.032	ppbv	98
47) 1,1,2-Trichloroethane	9.76	97	242971	2.091	ppbv	97
48) Dibromochloromethane	10.60	129	408736	2.259	ppbv	100
49) Bromoform	13.35	173	313430	2.358	ppbv	99
50) 4-Methyl-2-Pentanone	9.02	43	527459	2.221	ppbv	99
51) 2-Hexanone	10.42	43	480087	2.185	ppbv #	98
52) Tetrachloroethene	11.52	164	215154	1.893	ppbv	96
53) Toluene	10.09	91	663783	2.041	ppbv	100
54) 1,2-Dibromoethane	10.91	107	372028	2.118	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.43	131	299783	2.174	ppbv #	1
57) Chlorobenzene	12.45	112	546779	2.033	ppbv	95
58) Ethyl Benzene	13.01	91	944053	1.980	ppbv	96
59) m/p-Xylene	13.30	91	1613760m	4.102	ppbv	
60) o-Xylene	14.00	91	820644	2.066	ppbv	99
61) Styrene	13.83	104	151570	1.724	ppbv	99
62) Isopropylbenzene	14.97	105	1035418	2.057	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.98	83	574016	2.211	ppbv	98
64) n-propylbenzene	15.87	120	250964	2.072	ppbv	94
65) tert-Butylbenzene	17.06	119	913006	2.118	ppbv	98
66) Benzyl Chloride	17.31	91	72963m	1.984	ppbv	
67) sec-Butylbenzene	17.60	105	1306404	2.173	ppbv	99
69) p-Isopropyltoluene	17.96	119	1031411	2.135	ppbv	99
70) n-Butylbenzene	18.86	91	1078180	2.259	ppbv	98
71) 2-Chlorotoluene	15.76	91	747833	1.982	ppbv	99
72) 4-Ethyltoluene	16.15	105	833347	2.092	ppbv	100
73) 1,3,5-Trimethylbenzene	16.30	105	761080	2.104	ppbv	98
74) 1,2,4-Trimethylbenzene	17.07	105	839693	2.157	ppbv	96
75) 1,3-Dichlorobenzene	17.31	146	508666	2.138	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	493339	2.038	ppbv	98
77) 1,2-Dichlorobenzene	18.14	146	503999	2.189	ppbv	99
78) Hexachloro-1,3-Butadiene	23.68	225	194029	2.033	ppbv	98
79) Naphthalene	22.59	128	499644	2.034	ppbv	95
80) Naphthalene, 2-methyl-	25.24	142	84195	1.385	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	266986	1.988	ppbv	97

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

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