

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026178.D
 Acq On : 9 Oct 2015 14:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMdadoda
 10/12/2015 1:25:21 PM

Quant Time: Oct 09 16:03:04 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 16:03:04 2015
 QLast Update : Fri Oct 09 14:20:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	868165	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	8.36	114	2544728	10.00	ppbv	0.02
55) Chlorobenzene-d5	13.79	117	3080910m	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	2303520	10.13	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.65	85	2444576	19.62	ppbv	100
3) Chlorodifluoromethane	3.59	51	1390854	13.97	ppbv	99
4) Chloromethane	3.76	50	842913	14.30	ppbv	98
5) Vinyl Chloride	3.90	62	856768	13.61	ppbv	100
6) Bromomethane	4.16	94	618407	15.61	ppbv	99
7) Chloroethane	4.26	64	371328	15.16	ppbv	100
8) Dichlorotetrafluoroethane	3.82	85	1970502	14.58	ppbv	99
9) Propene	3.61	41	682890	13.49	ppbv	99
10) Heptane	9.38	43	2293511	13.07	ppbv	99
11) Trichlorofluoromethane	4.71	101	2324392	16.26	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.32	101	1552201	15.74	ppbv	100
13) Ethanol	4.35	45	100532	16.40	ppbv	94
14) Bromoethene	4.47	108	667025	15.86	ppbv	100
15) Acetone	4.62	43	1443027	13.38	ppbv	100
16) 1,3-Butadiene	3.98	39	760505	14.21	ppbv	100
17) tert-Butyl alcohol	5.15	59	1052326	15.02	ppbv	99
18) 1,1-Dichloroethene	5.10	96	727571	15.79	ppbv	98
19) Isopropyl Alcohol	4.78	45	704137	15.60	ppbv	99
20) Methylene Chloride	5.17	84	676109	14.74	ppbv	99
21) Allyl Chloride	5.24	41	1158996	15.57	ppbv	99
22) trans-1,2-Dichloroethene	5.79	96	922373	14.89	ppbv	98
23) Vinyl Acetate	6.01	43	3082606	15.08	ppbv	100
24) 1,1-Dichloroethane	5.93	63	1961013	14.23	ppbv	100
25) Ethyl Acetate	6.70	43	3103693	13.55	ppbv	100
26) Hexane	6.68	57	1499638	13.66	ppbv	99
27) Carbon Disulfide	5.41	76	2067821	17.59	ppbv	99
28) Methyl tert-Butyl Ether	5.98	73	2569010	15.38	ppbv	100
29) Chloroform	6.78	83	2266912	14.87	ppbv	99
30) Cyclohexane	8.31	84	1503812	14.34	ppbv	99
31) cis-1,2-Dichloroethene	6.54	61	1471792	14.66	ppbv	99
32) 1,1,1-Trichloroethane	7.63	97	2278500	14.94	ppbv	100
34) 2-Butanone	6.23	43	2056577	12.59	ppbv	99
35) Carbon Tetrachloride	8.19	117	2378248	13.94	ppbv	100
36) Benzene	8.06	78	3382130	12.57	ppbv	98
37) 1,2-Dichloroethane	7.40	62	1840881	13.70	ppbv	100
38) Trichloroethene	9.10	130	1291783	10.98	ppbv	98
39) 1,2-Dichloropropane	8.86	63	1249435	12.37	ppbv	99
40) 1,4-Dioxane	9.15	88	293498	19.85	ppbv #	1
41) Tetrahydrofuran	7.15	42	1218545	12.73	ppbv	100
42) Bromodichloromethane	9.06	83	2468439	13.94	ppbv	100
43) Methyl Methacrylate	9.30	69	1329006	13.91	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.12	57	5144805	11.29	ppbv	99
45) t-1,3-Dichloropropene	10.69	75	1998873	15.98	ppbv	100
46) cis-1,3-Dichloropropene	10.05	75	2304202	14.86	ppbv	98
47) 1,1,2-Trichloroethane	10.91	97	1503868	13.13	ppbv	99
48) Dibromochloromethane	11.84	129	2349991	15.15	ppbv	99
49) Bromoform	14.86	173	1891874	16.44	ppbv	99
50) 4-Methyl-2-Pentanone	10.12	43	2841649	12.99	ppbv	100
51) 2-Hexanone	11.65	43	2710265	13.52	ppbv #	100
52) Tetrachloroethene	12.83	164	1417462	11.59	ppbv	99
53) Toluene	11.27	91	4408546	12.97	ppbv	100
54) 1,2-Dibromoethane	12.18	107	2291746	13.42	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.83	131	1632854	12.78	ppbv	88
57) Chlorobenzene	13.85	112	3483097	11.44	ppbv	99
58) Ethyl Benzene	14.45	91	6118428	11.96	ppbv	100
59) m/p-Xylene	14.76	91	9297636	23.12	ppbv	100
60) o-Xylene	15.53	91	4755170	11.39	ppbv	100
61) Styrene	15.35	104	2436963	13.60	ppbv	100
62) Isopropylbenzene	16.58	105	6606200	12.05	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.53	83	3201591	10.01	ppbv	100
64) n-propylbenzene	17.56	120	1854526	12.66	ppbv	97
65) tert-Butylbenzene	18.85	119	5654162	11.76	ppbv	100
66) Benzyl Chloride	19.14	91	2374886	18.16	ppbv	100
67) sec-Butylbenzene	19.45	105	8095361	11.92	ppbv	99
69) p-Isopropyltoluene	19.83	119	6725901	12.25	ppbv	99
70) n-Butylbenzene	20.79	91	6463576	11.78	ppbv	99
71) 2-Chlorotoluene	17.47	91	5057624	12.13	ppbv	99
72) 4-Ethyltoluene	17.86	105	5716490	12.53	ppbv	99
73) 1,3,5-Trimethylbenzene	18.03	105	5293320	12.50	ppbv	100
74) 1,2,4-Trimethylbenzene	18.88	105	5081281	11.45	ppbv	96
75) 1,3-Dichlorobenzene	19.16	146	3401064	12.34	ppbv	100
76) 1,4-Dichlorobenzene	19.32	146	3546372	12.50	ppbv	100
77) 1,2-Dichlorobenzene	20.07	146	3412050	12.40	ppbv	100
78) Hexachloro-1,3-Butadiene	24.70	225	1178776	10.70	ppbv	100
79) Naphthalene	23.95	128	3602287	10.45	ppbv	99
80) Naphthalene, 2-methyl-	26.07	142	770191	9.53	ppbv	99
81) 1,2,4-Trichlorobenzene	23.76	180	1676394	10.10	ppbv	100

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

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