

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026206.D
 Acq On : 20 Oct 2015 9:29
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:30:44 PM

Quant Time: Oct 20 12:43:08 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 12:43:08 2015
 QLast Update : Tue Oct 20 12:22:24 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	560942	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	1792345	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2158370m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.26	95	1653304	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.62	85	1142782	10.87	ppbv	100
3) Chlorodifluoromethane	3.55	51	648896	9.90	ppbv	100
4) Chloromethane	3.73	50	363325	9.83	ppbv	100
5) Vinyl Chloride	3.87	62	393961	10.58	ppbv	100
6) Bromomethane	4.12	94	288758	10.77	ppbv	100
7) Chloroethane	4.22	64	171556	10.61	ppbv	100
8) Dichlorotetrafluoroethane	3.79	85	965690	10.52	ppbv	100
9) Propene	3.58	41	306228	10.18	ppbv	100
10) Heptane	9.33	43	1096376	10.49	ppbv	100
11) Trichlorofluoromethane	4.67	101	1124973	10.90	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.28	101	780770	11.17	ppbv	100
13) Ethanol	4.31	45	49016	11.08	ppbv	100
14) Bromoethene	4.43	108	330975	11.49	ppbv	100
15) Acetone	4.58	43	730874	10.08	ppbv	100
16) 1,3-Butadiene	3.95	39	353669	10.55	ppbv	100
17) tert-Butyl alcohol	5.10	59	621213	14.22	ppbv	100
18) 1,1-Dichloroethene	5.06	96	367139	11.60	ppbv	100
19) Isopropyl Alcohol	4.73	45	360990	12.78	ppbv	100
20) Methylene Chloride	5.13	84	331191	10.73	ppbv	100
21) Allyl Chloride	5.20	41	560814	11.85	ppbv	100
22) trans-1,2-Dichloroethene	5.74	96	451607	11.14	ppbv	100
23) Vinyl Acetate	5.96	43	1600654	12.47	ppbv	100
24) 1,1-Dichloroethane	5.89	63	926191	10.59	ppbv	100
25) Ethyl Acetate	6.65	43	1490213	10.63	ppbv	100
26) Hexane	6.63	57	767980	11.31	ppbv	100
27) Carbon Disulfide	5.37	76	1036084	12.74	ppbv	100
28) Methyl tert-Butyl Ether	5.93	73	1372708	12.54	ppbv	100
29) Chloroform	6.73	83	1091435	10.84	ppbv	100
30) Cyclohexane	8.26	84	763775	11.81	ppbv	100
31) cis-1,2-Dichloroethene	6.49	61	686871	11.09	ppbv	100
32) 1,1,1-Trichloroethane	7.57	97	1181477	12.29	ppbv	100
34) 2-Butanone	6.18	43	926713	9.29	ppbv	100
35) Carbon Tetrachloride	8.13	117	1229167	10.82	ppbv	100
36) Benzene	7.99	78	1692404	9.87	ppbv	100
37) 1,2-Dichloroethane	7.35	62	883023	9.62	ppbv	100
38) Trichloroethene	9.04	130	701204	8.91	ppbv	100
39) 1,2-Dichloropropane	8.80	63	591733	9.29	ppbv	100
40) 1,4-Dioxane	9.09	88	149934	14.30	ppbv	100
41) Tetrahydrofuran	7.09	42	549833	9.79	ppbv	100
42) Bromodichloromethane	9.00	83	1275829	10.56	ppbv	100
43) Methyl Methacrylate	9.24	69	639815	10.60	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.06	57	2622256	9.20	ppbv	100
45) t-1,3-Dichloropropene	10.62	75	1014981	12.21	ppbv	100
46) cis-1,3-Dichloropropene	9.99	75	1166487	11.43	ppbv	100
47) 1,1,2-Trichloroethane	10.85	97	748269	9.80	ppbv	100
48) Dibromochloromethane	11.77	129	1243454	11.48	ppbv	100
49) Bromoform	14.79	173	1063040	13.04	ppbv	100
50) 4-Methyl-2-Pentanone	10.06	43	1311444	9.94	ppbv	100
51) 2-Hexanone	11.59	43	1213898	10.23	ppbv #	100
52) Tetrachloroethene	12.76	164	758445	8.96	ppbv	100
53) Toluene	11.21	91	2244148	10.16	ppbv	100
54) 1,2-Dibromoethane	12.12	107	1152556	10.07	ppbv	100
56) 1,1,1,2-Tetrachloroethane	13.76	131	887583	10.26	ppbv	100
57) Chlorobenzene	13.79	112	1846109	9.48	ppbv	100
58) Ethyl Benzene	14.38	91	3181596	10.15	ppbv	100
59) m/p-Xylene	14.69	91	4935536m	19.62	ppbv	
60) o-Xylene	15.46	91	2516913	9.55	ppbv	100
61) Styrene	15.28	104	1268574	11.76	ppbv	100
62) Isopropylbenzene	16.52	105	3591367	10.33	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	1612024	8.23	ppbv	100
64) n-propylbenzene	17.49	120	997099	10.66	ppbv	96
65) tert-Butylbenzene	18.78	119	3156804	10.30	ppbv	100
66) Benzyl Chloride	19.07	91	1461441	16.04	ppbv	100
67) sec-Butylbenzene	19.38	105	4492280	10.51	ppbv	100
69) p-Isopropyltoluene	19.76	119	3766701	11.01	ppbv	100
70) n-Butylbenzene	20.73	91	3459112	10.55	ppbv	100
71) 2-Chlorotoluene	17.40	91	2680469	10.56	ppbv	100
72) 4-Ethyltoluene	17.79	105	3074428	10.93	ppbv	100
73) 1,3,5-Trimethylbenzene	17.96	105	2867785	10.85	ppbv	100
74) 1,2,4-Trimethylbenzene	18.80	105	2808761	10.13	ppbv	100
75) 1,3-Dichlorobenzene	19.09	146	1871636	10.55	ppbv	100
76) 1,4-Dichlorobenzene	19.24	146	1974978	11.04	ppbv	100
77) 1,2-Dichlorobenzene	20.00	146	1892788	10.92	ppbv	100
78) Hexachloro-1,3-Butadiene	24.64	225	366855	5.27	ppbv	100
79) Naphthalene	23.90	128	1107650	6.37	ppbv	100
80) Naphthalene, 2-methyl-	26.01	142	852151	21.81	ppbv	100
81) 1,2,4-Trichlorobenzene	23.70	180	561938	6.52	ppbv	100

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

