

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102115\
 Data File : VL026233.D
 Acq On : 21 Oct 2015 9:44
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:35:39 PM

Quant Time: Oct 21 11:31:12 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	507462	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.30	114	1571095	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.71	117	2026935m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.25	95	1504186	9.62	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.62	85	1095069	10.41	ppbv	100
3) Chlorodifluoromethane	3.55	51	641029	9.98	ppbv	100
4) Chloromethane	3.73	50	356301	10.28	ppbv	100
5) Vinyl Chloride	3.87	62	376705	10.33	ppbv	100
6) Bromomethane	4.12	94	274027	10.46	ppbv	96
7) Chloroethane	4.21	64	160464	10.48	ppbv	95
8) Dichlorotetrafluoroethane	3.78	85	903847	10.00	ppbv	100
9) Propene	3.57	41	289424	9.62	ppbv	100
10) Heptane	9.32	43	1016298	10.09	ppbv	98
11) Trichlorofluoromethane	4.67	101	1092540	10.59	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.28	101	738685	10.49	ppbv	99
13) Ethanol	4.31	45	35888	7.95	ppbv	96
14) Bromoethene	4.43	108	310514	10.45	ppbv	99
15) Acetone	4.58	43	649814	8.70	ppbv	99
16) 1,3-Butadiene	3.95	39	337266	10.12	ppbv	100
17) tert-Butyl alcohol	5.10	59	609621	11.94	ppbv	100
18) 1,1-Dichloroethene	5.06	96	340486	10.71	ppbv	99
19) Isopropyl Alcohol	4.73	45	313766	10.74	ppbv	91
20) Methylene Chloride	5.12	84	305338	10.24	ppbv	98
21) Allyl Chloride	5.20	41	519800	10.66	ppbv	99
22) trans-1,2-Dichloroethene	5.74	96	427687	10.43	ppbv	96
23) Vinyl Acetate	5.96	43	1387942	10.08	ppbv	99
24) 1,1-Dichloroethane	5.88	63	888448	10.23	ppbv	100
25) Ethyl Acetate	6.64	43	1401580	10.01	ppbv	100
26) Hexane	6.63	57	686973	9.82	ppbv	99
27) Carbon Disulfide	5.36	76	966296	10.80	ppbv	100
28) Methyl tert-Butyl Ether	5.93	73	1287010	10.12	ppbv	100
29) Chloroform	6.72	83	1044456	10.28	ppbv	99
30) Cyclohexane	8.25	84	701684	10.02	ppbv	99
31) cis-1,2-Dichloroethene	6.49	61	660277	10.39	ppbv	100
32) 1,1,1-Trichloroethane	7.57	97	1116135	9.91	ppbv	100
34) 2-Butanone	6.17	43	868918	9.79	ppbv	99
35) Carbon Tetrachloride	8.13	117	1160444	9.70	ppbv	98
36) Benzene	7.99	78	1567876	9.80	ppbv	99
37) 1,2-Dichloroethane	7.34	62	844099	10.26	ppbv	100
38) Trichloroethene	9.03	130	654263	8.43	ppbv	99
39) 1,2-Dichloropropane	8.79	63	563894	10.02	ppbv	99
40) 1,4-Dioxane	9.09	88	113632	10.74	ppbv #	35
41) Tetrahydrofuran	7.09	42	516506	10.05	ppbv	99
42) Bromodichloromethane	8.99	83	1190200	10.06	ppbv	98
43) Methyl Methacrylate	9.24	69	604202	10.37	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.06	57	2470930	9.54	ppbv	100
45) t-1,3-Dichloropropene	10.62	75	962068	10.59	ppbv	99
46) cis-1,3-Dichloropropene	9.99	75	1101215	10.35	ppbv	99
47) 1,1,2-Trichloroethane	10.85	97	717908	10.15	ppbv	99
48) Dibromochloromethane	11.77	129	1177204	10.22	ppbv	100
49) Bromoform	14.78	173	981907	10.09	ppbv	100
50) 4-Methyl-2-Pentanone	10.06	43	1242905	10.37	ppbv	100
51) 2-Hexanone	11.59	43	1211263	10.82	ppbv #	99
52) Tetrachloroethene	12.76	164	732695	7.98	ppbv	99
53) Toluene	11.20	91	2142656	9.85	ppbv	100
54) 1,2-Dibromoethane	12.11	107	1102972	10.08	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.76	131	840471	8.64	ppbv	99
57) Chlorobenzene	13.78	112	1761465	9.08	ppbv	100
58) Ethyl Benzene	14.38	91	3069468	9.34	ppbv	99
59) m/p-Xylene	14.68	91	4682796	18.21	ppbv	100
60) o-Xylene	15.46	91	2405182	8.95	ppbv	99
61) Styrene	15.28	104	1209590	9.94	ppbv	100
62) Isopropylbenzene	16.51	105	3423088	9.15	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	1571964	8.84	ppbv	99
64) n-propylbenzene	17.49	120	952555	9.26	ppbv	92
65) tert-Butylbenzene	18.77	119	2974097	8.71	ppbv	100
66) Benzyl Chloride	19.07	91	1358693	9.64	ppbv	100
67) sec-Butylbenzene	19.37	105	4312338	9.06	ppbv	100
69) p-Isopropyltoluene	19.75	119	3592076	9.03	ppbv	100
70) n-Butylbenzene	20.72	91	3358103	9.23	ppbv	100
71) 2-Chlorotoluene	17.39	91	2582249	9.38	ppbv	100
72) 4-Ethyltoluene	17.79	105	2948764	9.43	ppbv	100
73) 1,3,5-Trimethylbenzene	17.95	105	2712658	9.30	ppbv	100
74) 1,2,4-Trimethylbenzene	18.80	105	2638779	8.73	ppbv	99
75) 1,3-Dichlorobenzene	19.08	146	1783762	9.03	ppbv	100
76) 1,4-Dichlorobenzene	19.24	146	1874173	9.08	ppbv	100
77) 1,2-Dichlorobenzene	19.99	146	1809623	9.08	ppbv	100
78) Hexachloro-1,3-Butadiene	24.64	225	769212	7.53	ppbv	99
79) Naphthalene	23.89	128	2447415	9.19	ppbv	99
80) Naphthalene, 2-methyl-	26.00	142	418632	8.75	ppbv	98
81) 1,2,4-Trichlorobenzene	23.70	180	1115118	8.70	ppbv	99

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

