

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026662.D
 Acq On : 9 Jan 2016 5:47
 Operator : SY/AP
 Sample : H1002-18
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

Manual Integrations
 APPROVED

MMdadoda
 1/14/2016 10:51:19 AM

Quant Time: Jan 12 05:16:41 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	649795	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2126730	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2882130	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.26	95	2396735	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	3.63	85	91861	0.53	ppbv	96
3) Chlorodifluoromethane	3.56	51	40218	0.46	ppbv	91
4) Chloromethane	3.74	50	18480m	0.44	ppbv	
5) Vinyl Chloride	3.88	62	20353m	0.40	ppbv	
6) Bromomethane	4.13	94	17595	0.48	ppbv	92
7) Chloroethane	4.23	64	9697	0.47	ppbv	100
8) Dichlorotetrafluoroethane	3.79	85	67255	0.50	ppbv	98
9) Propene	3.59	41	11038	0.35	ppbv	95
10) Heptane	9.34	43	42623	0.37	ppbv	89
11) Trichlorofluoromethane	4.68	101	95759	0.53	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	5.29	101	56245	0.51	ppbv	100
13) Ethanol	4.35	45	2905m	0.49	ppbv	
14) Bromoethene	4.44	108	17546	0.44	ppbv #	93
15) Acetone	4.62	43	64507	0.60	ppbv #	62
16) 1,3-Butadiene	3.96	39	18766	0.44	ppbv	91
17) tert-Butyl alcohol	5.15	59	30776m	0.38	ppbv	
18) 1,1-Dichloroethene	5.07	96	22211	0.48	ppbv	94
19) Isopropyl Alcohol	4.78	45	14605m	0.33	ppbv	
20) Methylene Chloride	5.14	84	23733	0.54	ppbv	85
21) Allyl Chloride	5.21	41	27921	0.43	ppbv #	80
22) trans-1,2-Dichloroethene	5.75	96	23467	0.45	ppbv	98
23) Vinyl Acetate	5.98	43	59042	0.36	ppbv #	91
24) 1,1-Dichloroethane	5.89	63	53519	0.45	ppbv	98
25) Ethyl Acetate	6.67	43	34601m	0.21	ppbv	
26) Hexane	6.64	57	31368	0.37	ppbv	92
27) Carbon Disulfide	5.38	76	55526	0.44	ppbv #	81
28) Methyl tert-Butyl Ether	5.96	73	63058	0.37	ppbv	99
29) Chloroform	6.73	83	76025	0.49	ppbv	93
30) Cyclohexane	8.27	84	33974m	0.40	ppbv	
31) cis-1,2-Dichloroethene	6.51	61	30735	0.36	ppbv #	92
32) 1,1,1-Trichloroethane	7.57	97	76010	0.43	ppbv	98
34) 2-Butanone	6.21	43	38135	0.34	ppbv #	89
35) Carbon Tetrachloride	8.14	117	75720	0.40	ppbv	96
36) Benzene	8.01	78	71985	0.33	ppbv	96
37) 1,2-Dichloroethane	7.35	62	60599	0.40	ppbv	99
38) Trichloroethene	9.04	130	37795	0.39	ppbv	96
39) 1,2-Dichloropropane	8.80	63	30145	0.40	ppbv #	90
40) 1,4-Dioxane	9.16	88	4897m	0.28	ppbv	
41) Tetrahydrofuran	7.15	42	16066	0.29	ppbv	96
42) Bromodichloromethane	9.00	83	75668	0.39	ppbv #	95
43) Methyl Methacrylate	9.25	69	23722	0.30	ppbv	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.07	57	115147	0.33	ppbv	93
45) t-1,3-Dichloropropene	10.63	75	33466	0.26	ppbv	92
46) cis-1,3-Dichloropropene	10.00	75	39921	0.27	ppbv	96
47) 1,1,2-Trichloroethane	10.85	97	44839	0.42	ppbv	86
48) Dibromochloromethane	11.77	129	65515	0.40	ppbv	99
49) Bromoform	14.79	173	53054	0.40	ppbv	99
50) 4-Methyl-2-Pentanone	10.09	43	44194	0.28	ppbv	100
51) 2-Hexanone	11.62	43	39423	0.27	ppbv #	96
52) Tetrachloroethene	12.77	164	43607	0.40	ppbv	90
53) Toluene	11.22	91	95352	0.31	ppbv	98
54) 1,2-Dibromoethane	12.12	107	69834	0.41	ppbv	93
56) 1,1,1,2-Tetrachloroethane	13.76	131	58229	0.44	ppbv #	1
57) Chlorobenzene	13.79	112	143069	0.48	ppbv #	85
58) Ethyl Benzene	14.39	91	171021	0.33	ppbv	93
59) m/p-Xylene	14.69	91	316238m	0.75	ppbv	
60) o-Xylene	15.46	91	193738	0.42	ppbv	99
61) Styrene	15.29	104	56350	0.31	ppbv	99
62) Isopropylbenzene	16.52	105	235274	0.39	ppbv	97
63) 1,1,2,2-Tetrachloroethane	15.45	83	148290	0.43	ppbv	99
64) n-propylbenzene	17.49	120	62575	0.38	ppbv	89
65) tert-Butylbenzene	18.78	119	239642	0.43	ppbv	94
66) Benzyl Chloride	19.08	91	63272	0.32	ppbv	99
67) sec-Butylbenzene	19.38	105	326455	0.40	ppbv	100
69) p-Isopropyltoluene	19.76	119	224622	0.36	ppbv	98
70) n-Butylbenzene	20.74	91	220603	0.34	ppbv	97
71) 2-Chlorotoluene	17.40	91	156092	0.33	ppbv	96
72) 4-Ethyltoluene	17.80	105	181016	0.35	ppbv	98
73) 1,3,5-Trimethylbenzene	17.96	105	184565	0.38	ppbv	98
74) 1,2,4-Trimethylbenzene	18.80	105	222674	0.43	ppbv	93
75) 1,3-Dichlorobenzene	19.09	146	140087	0.44	ppbv	97
76) 1,4-Dichlorobenzene	19.24	146	147354m	0.45	ppbv	
77) 1,2-Dichlorobenzene	20.00	146	143028m	0.44	ppbv	
78) Hexachloro-1,3-Butadiene	24.64	225	53248m	0.40	ppbv	
79) Naphthalene	23.92	128	87621	0.25	ppbv #	92
80) Naphthalene, 2-methyl-	26.03	142	17252	0.32	ppbv #	83
81) 1,2,4-Trichlorobenzene	23.72	180	50353	0.32	ppbv	98

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

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