

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026659.D
 Acq On : 9 Jan 2016 3:54
 Operator : SY/AP
 Sample : H1002-15
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1

Manual Integrations
 APPROVED

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

Quant Time: Jan 12 05:15:02 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	697261	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2205449	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2997014	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.26	95	2461108	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.63	85	97403	0.53	ppbv	96
3) Chlorodifluoromethane	3.56	51	43344	0.47	ppbv	99
4) Chloromethane	3.74	50	20038	0.44	ppbv	90
5) Vinyl Chloride	3.88	62	20891	0.38	ppbv	99
6) Bromomethane	4.14	94	17904	0.46	ppbv	87
7) Chloroethane	4.23	64	9732m	0.44	ppbv	
8) Dichlorotetrafluoroethane	3.79	85	69598	0.48	ppbv	98
9) Propene	3.59	41	12561	0.38	ppbv	97
10) Heptane	9.33	43	42221	0.34	ppbv	85
11) Trichlorofluoromethane	4.68	101	98511	0.51	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	5.29	101	56827	0.48	ppbv	99
13) Ethanol	4.34	45	2179	0.34	ppbv	99
14) Bromoethene	4.44	108	18414	0.43	ppbv #	95
15) Acetone	4.60	43	63831m	0.56	ppbv	
16) 1,3-Butadiene	3.96	39	20207m	0.44	ppbv	
17) tert-Butyl alcohol	5.15	59	31066m	0.36	ppbv	
18) 1,1-Dichloroethene	5.07	96	20887m	0.42	ppbv	
19) Isopropyl Alcohol	4.77	45	17828m	0.38	ppbv	
20) Methylene Chloride	5.14	84	25669m	0.55	ppbv	
21) Allyl Chloride	5.21	41	27374	0.39	ppbv #	71
22) trans-1,2-Dichloroethene	5.75	96	24176	0.43	ppbv	97
23) Vinyl Acetate	5.97	43	61603	0.35	ppbv #	94
24) 1,1-Dichloroethane	5.88	63	52121	0.41	ppbv #	95
25) Ethyl Acetate	6.67	43	46746m	0.26	ppbv	
26) Hexane	6.65	57	33928	0.37	ppbv	96
27) Carbon Disulfide	5.38	76	56547	0.42	ppbv #	69
28) Methyl tert-Butyl Ether	5.96	73	64167	0.35	ppbv	98
29) Chloroform	6.72	83	81648	0.49	ppbv	87
30) Cyclohexane	8.26	84	34407	0.38	ppbv #	30
31) cis-1,2-Dichloroethene	6.50	61	33011	0.36	ppbv	95
32) 1,1,1-Trichloroethane	7.57	97	75564	0.40	ppbv	96
34) 2-Butanone	6.20	43	40921	0.35	ppbv	92
35) Carbon Tetrachloride	8.14	117	79715	0.41	ppbv	91
36) Benzene	7.99	78	75843	0.33	ppbv	94
37) 1,2-Dichloroethane	7.35	62	63566	0.41	ppbv	99
38) Trichloroethene	9.04	130	38844	0.38	ppbv	92
39) 1,2-Dichloropropane	8.80	63	32400	0.41	ppbv #	86
40) 1,4-Dioxane	9.16	88	3986m	0.22	ppbv	
41) Tetrahydrofuran	7.14	42	16884	0.29	ppbv #	92
42) Bromodichloromethane	8.99	83	80712	0.40	ppbv	95
43) Methyl Methacrylate	9.25	69	24564	0.30	ppbv	94

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 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.06	57	125360	0.34	ppbv	98
45) t-1,3-Dichloropropene	10.63	75	36842	0.27	ppbv	95
46) cis-1,3-Dichloropropene	10.00	75	44501	0.29	ppbv	91
47) 1,1,2-Trichloroethane	10.85	97	45167	0.40	ppbv	95
48) Dibromochloromethane	11.77	129	65286	0.39	ppbv	99
49) Bromoform	14.79	173	53338	0.39	ppbv	99
50) 4-Methyl-2-Pentanone	10.08	43	47948m	0.29	ppbv	
51) 2-Hexanone	11.62	43	37888	0.25	ppbv #	98
52) Tetrachloroethene	12.77	164	43026	0.38	ppbv	93
53) Toluene	11.21	91	99294	0.31	ppbv	98
54) 1,2-Dibromoethane	12.12	107	71051	0.40	ppbv	88
56) 1,1,1,2-Tetrachloroethane	13.76	131	59726	0.43	ppbv #	1
57) Chlorobenzene	13.79	112	138260	0.45	ppbv	92
58) Ethyl Benzene	14.39	91	177098	0.33	ppbv	95
59) m/p-Xylene	14.69	91	333895m	0.76	ppbv	
60) o-Xylene	15.46	91	200600	0.42	ppbv	96
61) Styrene	15.29	104	59331	0.32	ppbv	98
62) Isopropylbenzene	16.52	105	243047	0.39	ppbv	97
63) 1,1,2,2-Tetrachloroethane	15.46	83	154190	0.43	ppbv	100
64) n-propylbenzene	17.49	120	66964	0.40	ppbv	93
65) tert-Butylbenzene	18.78	119	243730	0.42	ppbv	94
66) Benzyl Chloride	19.08	91	58416	0.28	ppbv #	96
67) sec-Butylbenzene	19.38	105	345239	0.40	ppbv	99
69) p-Isopropyltoluene	19.76	119	236550	0.36	ppbv	99
70) n-Butylbenzene	20.74	91	234630	0.34	ppbv	98
71) 2-Chlorotoluene	17.40	91	158747	0.32	ppbv	95
72) 4-Ethyltoluene	17.79	105	184262	0.35	ppbv	99
73) 1,3,5-Trimethylbenzene	17.96	105	189542	0.38	ppbv	96
74) 1,2,4-Trimethylbenzene	18.80	105	231934	0.43	ppbv	98
75) 1,3-Dichlorobenzene	19.10	146	148262	0.45	ppbv	98
76) 1,4-Dichlorobenzene	19.25	146	146069	0.43	ppbv	99
77) 1,2-Dichlorobenzene	20.00	146	145320	0.43	ppbv	99
78) Hexachloro-1,3-Butadiene	24.66	225	55752	0.41	ppbv	96
79) Naphthalene	23.92	128	93236	0.26	ppbv #	97
80) Naphthalene, 2-methyl-	26.03	142	16012	0.28	ppbv #	87
81) 1,2,4-Trichlorobenzene	23.72	180	51384	0.31	ppbv	95

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

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