

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035775.D
 Acq On : 12 Oct 2020 23:37
 Operator : SY/AP
 Sample : L4214-13 LOD 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/14/2020 2:12:03 PM

Quant Time: Oct 13 02:20:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1019209	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	3939058	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3876919	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	2839006	9.77	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	32658	0.195	ppbv	97
3) Chlorodifluoromethane	2.98	51	14475	0.132	ppbv	94
4) Chloromethane	3.14	50	8346	0.142	ppbv	98
5) Vinyl Chloride	3.26	62	8460	0.121	ppbv #	85
6) Bromomethane	3.47	94	7673	0.130	ppbv	91
7) Chloroethane	3.55	64	3164	0.124	ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	27381	0.135	ppbv	100
9) Propene	3.01	41	7472	0.188	ppbv	93
10) Heptane	8.13	43	7871	0.071	ppbv	92
11) Trichlorofluoromethane	3.95	101	31065	0.130	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.48	101	23204	0.130	ppbv	100
14) Bromoethene	3.74	108	9093	0.121	ppbv	96
15) Acetone	3.87	43	27278	0.249	ppbv #	63
16) 1,3-Butadiene	3.32	39	5274m	0.131	ppbv	
17) tert-Butyl alcohol	4.32	59	17723m	0.148	ppbv	
18) 1,1-Dichloroethene	4.29	96	9432	0.121	ppbv #	90
19) Isopropyl Alcohol	3.99	45	10000m	0.168	ppbv	
20) Methylene Chloride	4.34	84	21971	0.273	ppbv	94
21) Allvl Chloride	4.41	41	6259	0.118	ppbv	90
22) trans-1,2-Dichloroethene	4.89	96	10526	0.128	ppbv	87
23) Vinyl Acetate	5.08	43	16359	0.122	ppbv #	91
24) 1,1-Dichloroethane	5.01	63	18655	0.128	ppbv	96
25) Ethyl Acetate	5.69	43	22734	0.115	ppbv	99
26) Hexane	5.69	57	12282	0.114	ppbv	91
27) Carbon Disulfide	4.55	76	17170	0.107	ppbv #	79
28) Methyl tert-Butyl Ether	5.05	73	17330	0.101	ppbv	100
29) Chloroform	5.75	83	29311	0.133	ppbv	96
30) Cyclohexane	7.16	84	19408m	0.182	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	11539	0.111	ppbv #	82
32) 1,1,1-Trichloroethane	6.51	97	22956	0.119	ppbv	97
34) 2-Butanone	5.26	43	14737	0.113	ppbv #	88
35) Carbon Tetrachloride	7.02	117	22275	0.108	ppbv #	90
36) Benzene	6.89	78	24632	0.096	ppbv	99
37) 1,2-Dichloroethane	6.31	62	16755m	0.125	ppbv	
38) Trichloroethene	7.84	130	14020	0.109	ppbv	89
39) 1,2-Dichloropropane	7.62	63	9936	0.107	ppbv	91
40) 1,4-Dioxane	7.91	88	4124m	0.097	ppbv	
41) Tetrahydrofuran	6.09	42	4613m	0.070	ppbv	
42) Bromodichloromethane	7.79	83	21912	0.102	ppbv	93
43) Methyl Methacrylate	8.03	69	7158m	0.070	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	28689m	0.078	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.29	75	7020m	0.068	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	9712m	0.076	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	15490	0.116	ppbv	96
48) Dibromochloromethane	10.31	129	16162	0.080	ppbv	99
49) Bromoform	13.06	173	11952m	0.069	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	14204	0.075	ppbv	94
51) 2-Hexanone	10.18	43	11039m	0.072	ppbv	
52) Tetrachloroethene	11.23	164	13493m	0.109	ppbv	
53) Toluene	9.81	91	22806m	0.075	ppbv	
54) 1,2-Dibromoethane	10.62	107	21570m	0.108	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.13	131	17511m	0.108	ppbv	
57) Chlorobenzene	12.16	112	38671	0.132	ppbv #	93
58) Ethyl Benzene	12.72	91	30521m	0.078	ppbv	
59) m/p-Xylene	13.00	91	50381m	0.148	ppbv	
60) o-Xylene	13.70	91	27601m	0.080	ppbv	
61) Styrene	13.54	104	13288	0.056	ppbv	98
62) Isopropylbenzene	14.69	105	43435	0.081	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.69	83	32017	0.114	ppbv	98
64) n-propylbenzene	15.58	120	9470m	0.061	ppbv	
65) tert-Butylbenzene	16.77	119	32379m	0.067	ppbv	
66) Benzyl Chloride	17.01	91	12933m	0.088	ppbv	
67) sec-Butylbenzene	17.32	105	47015m	0.070	ppbv	
69) p-Isopropyltoluene	17.67	119	30635	0.056	ppbv	95
70) n-Butylbenzene	18.58	91	35070	0.063	ppbv	93
71) 2-Chlorotoluene	15.47	91	30569m	0.079	ppbv	
72) 4-Ethyltoluene	15.86	105	25062	0.062	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.02	105	23481m	0.061	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	27512	0.063	ppbv #	95
75) 1,3-Dichlorobenzene	17.01	146	39333	0.133	ppbv	96
76) 1,4-Dichlorobenzene	17.16	146	30673m	0.108	ppbv	
77) 1,2-Dichlorobenzene	17.84	146	29006m	0.104	ppbv	
78) Hexachloro-1,3-Butadiene	23.41	225	21660m	0.140	ppbv	
79) Naphthalene	22.25	128	27297m	0.066	ppbv	
80) Naphthalene,2-methyl-	25.02	142	2984	0.031	ppbv	94
81) 1,2,4-Trichlorobenzene	21.97	180	20180m	0.094	ppbv	

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

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