

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035774.D
 Acq On : 12 Oct 2020 23:00
 Operator : SY/AP
 Sample : L4214-13 LOD 0.4
 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 2:12:00 PM

Quant Time: Oct 13 02:02:51 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 2

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	984085	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	3982942	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3861813	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2838638	9.81	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	107556	0.666	ppbv	97
3) Chlorodifluoromethane	2.98	51	49959	0.472	ppbv	99
4) Chloromethane	3.13	50	28907	0.508	ppbv	96
5) Vinyl Chloride	3.25	62	31015	0.461	ppbv	92
6) Bromomethane	3.47	94	26713	0.470	ppbv	94
7) Chloroethane	3.55	64	11138	0.451	ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	100687	0.514	ppbv	99
9) Propene	3.01	41	19348	0.503	ppbv	90
10) Heptane	8.13	43	40970m	0.382	ppbv	
11) Trichlorofluoromethane	3.94	101	112345	0.488	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.48	101	84923	0.494	ppbv	97
13) Ethanol	3.61	45	4835	0.510	ppbv	82
14) Bromoethene	3.73	108	33270	0.460	ppbv	96
15) Acetone	3.86	43	62261	0.588	ppbv #	84
16) 1,3-Butadiene	3.33	39	17069	0.441	ppbv	99
17) tert-Butyl alcohol	4.31	59	63875	0.554	ppbv	100
18) 1,1-Dichloroethene	4.29	96	35912	0.478	ppbv	86
19) Isopropyl Alcohol	3.98	45	30354	0.527	ppbv #	92
20) Methylene Chloride	4.34	84	46035	0.592	ppbv	97
21) Allyl Chloride	4.41	41	22274	0.434	ppbv	94
22) trans-1,2-Dichloroethene	4.88	96	38461	0.484	ppbv	95
23) Vinyl Acetate	5.07	43	60228	0.464	ppbv #	95
24) 1,1-Dichloroethane	5.01	63	69614	0.493	ppbv	93
25) Ethyl Acetate	5.68	43	88459	0.464	ppbv	100
26) Hexane	5.69	57	45759	0.438	ppbv	91
27) Carbon Disulfide	4.55	76	63211	0.406	ppbv	97
28) Methyl tert-Butyl Ether	5.05	73	77153	0.466	ppbv	99
29) Chloroform	5.75	83	104679	0.494	ppbv	99
30) Cyclohexane	7.13	84	38557	0.374	ppbv #	29
31) cis-1,2-Dichloroethene	5.55	61	42268	0.419	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	87714	0.469	ppbv	98
34) 2-Butanone	5.26	43	54060	0.410	ppbv	98
35) Carbon Tetrachloride	7.02	117	86137	0.415	ppbv	96
36) Benzene	6.90	78	105503	0.407	ppbv	95
37) 1,2-Dichloroethane	6.30	62	59081	0.437	ppbv	100
38) Trichloroethene	7.84	130	54628	0.422	ppbv	97
39) 1,2-Dichloropropane	7.61	63	40203	0.427	ppbv	95
40) 1,4-Dioxane	7.88	88	21522m	0.500	ppbv	
41) Tetrahydrofuran	6.07	42	22095	0.333	ppbv	94
42) Bromodichloromethane	7.79	83	86385	0.396	ppbv	91
43) Methyl Methacrylate	8.02	69	35123	0.340	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	146411	0.393	ppbv	97
45) t-1,3-Dichloropropene	9.29	75	31281	0.300	ppbv	98
46) cis-1,3-Dichloropropene	8.71	75	40978	0.319	ppbv	93
47) 1,1,2-Trichloroethane	9.48	97	58394m	0.433	ppbv	
48) Dibromochloromethane	10.31	129	73386	0.358	ppbv	96
49) Bromoform	13.06	173	57063	0.328	ppbv	98
50) 4-Methyl-2-Pentanone	8.77	43	65774	0.342	ppbv	98
51) 2-Hexanone	10.17	43	48181	0.311	ppbv #	90
52) Tetrachloroethene	11.23	164	55486	0.445	ppbv	96
53) Toluene	9.81	91	107147	0.350	ppbv	96
54) 1,2-Dibromoethane	10.62	107	83150	0.412	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.14	131	68409	0.422	ppbv #	1
57) Chlorobenzene	12.16	112	145015	0.497	ppbv #	89
58) Ethyl Benzene	12.73	91	144561	0.373	ppbv #	88
59) m/p-Xylene	13.01	91	281099m	0.830	ppbv	
60) o-Xylene	13.71	91	134287	0.392	ppbv	99
61) Styrene	13.55	104	71186	0.301	ppbv	97
62) Isopropylbenzene	14.69	105	229083m	0.431	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.69	83	126094	0.449	ppbv	99
64) n-propylbenzene	15.58	120	62715m	0.403	ppbv	
65) tert-Butylbenzene	16.77	119	197258	0.409	ppbv	96
66) Benzyl Chloride	17.01	91	50127m	0.343	ppbv	
67) sec-Butylbenzene	17.32	105	271843	0.408	ppbv	95
69) p-Isopropyltoluene	17.68	119	213543	0.394	ppbv	94
70) n-Butylbenzene	18.57	91	219298	0.393	ppbv	90
71) 2-Chlorotoluene	15.47	91	151748	0.392	ppbv	97
72) 4-Ethyltoluene	15.86	105	150329	0.371	ppbv	97
73) 1,3,5-Trimethylbenzene	16.02	105	144606	0.377	ppbv	88
74) 1,2,4-Trimethylbenzene	16.78	105	181400	0.420	ppbv	94
75) 1,3-Dichlorobenzene	17.02	146	151141	0.512	ppbv	98
76) 1,4-Dichlorobenzene	17.16	146	126771	0.450	ppbv	97
77) 1,2-Dichlorobenzene	17.83	146	130583	0.469	ppbv	98
78) Hexachloro-1,3-Butadiene	23.40	225	62917m	0.409	ppbv	
79) Naphthalene	22.24	128	139850	0.339	ppbv	97
80) Naphthalene, 2-methyl-	25.00	142	12095	0.124	ppbv	94
81) 1,2,4-Trichlorobenzene	21.97	180	91454m	0.428	ppbv	

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

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