

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120320\
 Data File : VL036053.D
 Acq On : 3 Dec 2020 14:13
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 12/7/2020 12:08:31 PM

Quant Time: Dec 03 15:00:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Dec 0
 QLast Update : Thu Dec 03 14:24:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1199267	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4283004	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3895325	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2925079	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	126213	0.605	ppbv	94
3) Chlorodifluoromethane	2.97	51	74439	0.526	ppbv	98
4) Chloromethane	3.12	50	37246	0.538	ppbv	89
5) Vinyl Chloride	3.24	62	40847	0.465	ppbv	95
6) Bromomethane	3.46	94	33938	0.491	ppbv	94
7) Chloroethane	3.55	64	16213	0.513	ppbv #	82
8) Dichlorotetrafluoroethane	3.17	85	129813	0.527	ppbv	97
9) Propene	2.99	41	23971	0.485	ppbv	89
10) Heptane	8.11	43	56386	0.418	ppbv	93
11) Trichlorofluoromethane	3.93	101	139927	0.495	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.47	101	110082	0.517	ppbv	99
13) Ethanol	3.60	45	4629	0.463	ppbv #	35
14) Bromoethene	3.73	108	43539	0.505	ppbv #	95
15) Acetone	3.85	43	73593	0.591	ppbv #	84
16) 1,3-Butadiene	3.31	39	26159	0.478	ppbv	93
17) tert-Butyl alcohol	4.29	59	76577	0.561	ppbv	96
18) 1,1-Dichloroethene	4.27	96	47442	0.502	ppbv	90
19) Isopropyl Alcohol	3.97	45	36083	0.540	ppbv #	74
20) Methylene Chloride	4.33	84	70847	0.657	ppbv	98
21) Allyl Chloride	4.40	41	30913	0.466	ppbv	93
22) trans-1,2-Dichloroethene	4.87	96	47839	0.510	ppbv	97
23) Vinyl Acetate	5.07	43	65216	0.443	ppbv #	94
24) 1,1-Dichloroethane	5.00	63	86155	0.513	ppbv	97
25) Ethyl Acetate	5.67	43	133461m	0.533	ppbv	
26) Hexane	5.67	57	71052	0.534	ppbv	98
27) Carbon Disulfide	4.54	76	85180	0.440	ppbv	96
28) Methyl tert-Butyl Ether	5.03	73	97183	0.490	ppbv	97
29) Chloroform	5.74	83	130802	0.520	ppbv	96
30) Cyclohexane	7.11	84	53002	0.422	ppbv #	76
31) cis-1,2-Dichloroethene	5.53	61	59033	0.485	ppbv	97
32) 1,1,1-Trichloroethane	6.50	97	111180m	0.482	ppbv	
34) 2-Butanone	5.24	43	67353	0.459	ppbv	89
35) Carbon Tetrachloride	7.00	117	102727	0.459	ppbv	92
36) Benzene	6.88	78	139677	0.477	ppbv	94
37) 1,2-Dichloroethane	6.29	62	76753	0.505	ppbv	100
38) Trichloroethene	7.83	130	60518	0.462	ppbv	93
39) 1,2-Dichloropropane	7.60	63	54301	0.484	ppbv	90
40) 1,4-Dioxane	7.86	88	19693m	0.526	ppbv	
41) Tetrahydrofuran	6.06	42	29150	0.380	ppbv	96
42) Bromodichloromethane	7.78	83	103730	0.432	ppbv	95
43) Methyl Methacrylate	8.01	69	41702	0.391	ppbv	96

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 03 2020
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	197221	0.454	ppbv	94
45) t-1,3-Dichloropropene	9.27	75	36096m	0.358	ppbv	
46) cis-1,3-Dichloropropene	8.69	75	46106	0.341	ppbv	95
47) 1,1,2-Trichloroethane	9.46	97	69696m	0.495	ppbv	
48) Dibromochloromethane	10.29	129	75777	0.383	ppbv	96
49) Bromoform	13.03	173	51177	0.348	ppbv	96
50) 4-Methyl-2-Pentanone	8.74	43	96749m	0.434	ppbv	
51) 2-Hexanone	10.15	43	58745m	0.364	ppbv	
52) Tetrachloroethene	11.21	164	53010m	0.467	ppbv	
53) Toluene	9.80	91	125198	0.393	ppbv	97
54) 1,2-Dibromoethane	10.60	107	88535	0.444	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.12	131	76513m	0.481	ppbv	
57) Chlorobenzene	12.14	112	148259	0.516	ppbv #	90
58) Ethyl Benzene	12.70	91	152728	0.396	ppbv	96
59) m/p-Xylene	12.99	91	297538m	0.847	ppbv	
60) o-Xylene	13.68	91	155485	0.439	ppbv	99
61) Styrene	13.52	104	64708m	0.322	ppbv	
62) Isopropylbenzene	14.66	105	243264	0.462	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.67	83	138206	0.465	ppbv	97
64) n-propylbenzene	15.55	120	56296	0.406	ppbv #	64
65) tert-Butylbenzene	16.74	119	179579	0.407	ppbv	97
66) Benzyl Chloride	16.99	91	37802m	0.356	ppbv	
67) sec-Butylbenzene	17.29	105	254222m	0.422	ppbv	
69) p-Isopropyltoluene	17.65	119	166826	0.367	ppbv	96
70) n-Butylbenzene	18.55	91	171906m	0.382	ppbv	
71) 2-Chlorotoluene	15.45	91	152748	0.422	ppbv	98
72) 4-Ethyltoluene	15.84	105	135378	0.371	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	141525m	0.414	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	163944	0.430	ppbv	97
75) 1,3-Dichlorobenzene	16.99	146	110330m	0.478	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	103387m	0.474	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	103180m	0.488	ppbv	
78) Hexachloro-1,3-Butadiene	23.37	225	58082	0.499	ppbv	98
79) Naphthalene	22.21	128	59190m	0.333	ppbv	
80) Naphthalene, 2-methyl-	25.02	142	9863m	0.280	ppbv	
81) 1,2,4-Trichlorobenzene	21.94	180	47918m	0.392	ppbv	

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

