

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032745.D
 Acq On : 14 Nov 2018 4:22
 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
 11/16/2018 1:29:44 PM

Quant Time: Nov 14 06:01:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 2018
 QLast Update : Wed Nov 14 05:38:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1609706	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	4069912	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3677631	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2764585	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	131035	0.714	ppbv	97
3) Chlorodifluoromethane	3.02	51	68917	0.541	ppbv	96
4) Chloromethane	3.18	50	40740	0.576	ppbv #	83
5) Vinyl Chloride	3.30	62	35659	0.466	ppbv	92
6) Bromomethane	3.52	94	24425	0.508	ppbv	95
7) Chloroethane	3.61	64	15299	0.541	ppbv	95
8) Dichlorotetrafluoroethane	3.23	85	104113	0.594	ppbv	100
9) Propene	3.05	41	27623	0.533	ppbv	98
10) Heptane	8.25	43	93414	0.465	ppbv	95
11) Trichlorofluoromethane	4.01	101	134328	0.616	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.56	101	96125	0.546	ppbv	98
13) Ethanol	3.67	45	10822m	0.739	ppbv	
14) Bromoethene	3.80	108	31981	0.528	ppbv #	89
15) Acetone	3.93	43	90455	0.605	ppbv	98
16) 1,3-Butadiene	3.37	39	28035	0.494	ppbv	88
17) tert-Butyl alcohol	4.40	59	25358m	0.600	ppbv	
18) 1,1-Dichloroethene	4.36	96	48854	0.615	ppbv	94
19) Isopropyl Alcohol	4.05	45	61331	0.588	ppbv #	93
20) Methylene Chloride	4.42	84	44678	0.587	ppbv	88
21) Allyl Chloride	4.49	41	62782	0.524	ppbv	97
22) trans-1,2-Dichloroethene	4.97	96	45041	0.551	ppbv	89
23) Vinyl Acetate	5.17	43	130269	0.482	ppbv #	96
24) 1,1-Dichloroethane	5.10	63	118054	0.556	ppbv	99
25) Ethyl Acetate	5.79	43	181898	0.531	ppbv	99
26) Hexane	5.79	57	76951	0.477	ppbv	87
27) Carbon Disulfide	4.63	76	97222	0.503	ppbv #	83
28) Methyl tert-Butyl Ether	5.13	73	119857	0.501	ppbv	97
29) Chloroform	5.85	83	152965	0.586	ppbv	99
30) Cyclohexane	7.26	84	63344m	0.490	ppbv	
31) cis-1,2-Dichloroethene	5.65	61	76454	0.508	ppbv	89
32) 1,1,1-Trichloroethane	6.63	97	153582	0.574	ppbv	99
34) 2-Butanone	5.35	43	104856m	0.480	ppbv	
35) Carbon Tetrachloride	7.14	117	163070	0.559	ppbv	96
36) Benzene	7.01	78	158283	0.481	ppbv	94
37) 1,2-Dichloroethane	6.42	62	118004	0.577	ppbv	99
38) Trichloroethene	7.97	130	62172	0.505	ppbv	94
39) 1,2-Dichloropropane	7.74	63	63340	0.499	ppbv	90
40) 1,4-Dioxane	8.00	88	21625m	0.501	ppbv	
41) Tetrahydrofuran	6.18	42	52649	0.435	ppbv	100
42) Bromodichloromethane	7.92	83	148340	0.519	ppbv	97
43) Methyl Methacrylate	8.16	69	52347	0.433	ppbv	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.00	57	244871	0.436	ppbv	92
45) t-1,3-Dichloropropene	9.43	75	61429m	0.380	ppbv	
46) cis-1,3-Dichloropropene	8.84	75	81448	0.433	ppbv #	87
47) 1,1,2-Trichloroethane	9.62	97	72134m	0.481	ppbv	
48) Dibromochloromethane	10.45	129	117137	0.464	ppbv	100
49) Bromoform	13.21	173	94475m	0.476	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	141644	0.433	ppbv	99
51) 2-Hexanone	10.30	43	82176m	0.349	ppbv	
52) Tetrachloroethene	11.38	164	58039m	0.504	ppbv	
53) Toluene	9.95	91	134432	0.362	ppbv	97
54) 1,2-Dibromoethane	10.77	107	97891m	0.485	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.28	131	93522m	0.572	ppbv	
57) Chlorobenzene	12.30	112	156714m	0.573	ppbv	
58) Ethyl Benzene	12.88	91	191195	0.443	ppbv	98
59) m/p-Xylene	13.13	91	376482m	0.980	ppbv	
60) o-Xylene	13.86	91	191559	0.513	ppbv	99
61) Styrene	13.70	104	90639	0.363	ppbv	97
62) Isopropylbenzene	14.83	105	262196	0.497	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.84	83	163787	0.565	ppbv	100
64) n-propylbenzene	15.73	120	66364	0.503	ppbv	85
65) tert-Butylbenzene	16.91	119	226900m	0.499	ppbv	
66) Benzyl Chloride	17.16	91	117252m	0.494	ppbv	
67) sec-Butylbenzene	17.47	105	336844	0.522	ppbv	98
69) p-Isopropyltoluene	17.82	119	257525	0.503	ppbv	99
70) n-Butylbenzene	18.72	91	260546m	0.496	ppbv	
71) 2-Chlorotoluene	15.63	91	179419	0.474	ppbv	100
72) 4-Ethyltoluene	16.01	105	195499m	0.487	ppbv	
73) 1,3,5-Trimethylbenzene	16.16	105	198330	0.507	ppbv	94
74) 1,2,4-Trimethylbenzene	16.93	105	236729	0.567	ppbv	93
75) 1,3-Dichlorobenzene	17.18	146	141309m	0.588	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	122866m	0.552	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	126151	0.556	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	79945	0.695	ppbv	97
79) Naphthalene	22.43	128	107553m	0.410	ppbv	
80) Naphthalene, 2-methyl-	25.13	142	16136	0.257	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	63385m	0.472	ppbv	

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

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