

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033876.D
 Acq On : 7 Jun 2019 3:21
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 9:18:22 AM

Quant Time: Jun 07 08:51:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 05:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	958326	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2231516	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2212524	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1876907	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	185770	0.960 ppbv	99
3) Chlorodifluoromethane	3.01	51	119090	1.079 ppbv	98
4) Chloromethane	3.16	50	67688	1.073 ppbv	93
5) Vinyl Chloride	3.28	62	63187	0.983 ppbv #	88
6) Bromomethane	3.51	94	39420	1.004 ppbv	94
7) Chloroethane	3.59	64	24623	1.072 ppbv	90
8) Dichlorotetrafluoroethane	3.21	85	170164	1.031 ppbv	100
9) Propene	3.03	41	40942	0.890 ppbv	100
10) Heptane	8.23	43	98706m	0.758 ppbv	
11) Trichlorofluoromethane	3.99	101	206382	1.064 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.54	101	133428	0.988 ppbv	99
13) Ethanol	3.64	45	17204m	1.161 ppbv	
14) Bromoethene	3.78	108	48646	0.963 ppbv	97
15) Acetone	3.90	43	150871	1.137 ppbv	96
16) 1,3-Butadiene	3.36	39	49686	0.927 ppbv	97
17) tert-Butyl alcohol	4.35	59	110549	1.001 ppbv	100
18) 1,1-Dichloroethene	4.34	96	54719	0.959 ppbv	95
19) Isopropyl Alcohol	4.02	45	79723	0.924 ppbv #	92
20) Methylene Chloride	4.40	84	55330	1.073 ppbv	97
21) Allyl Chloride	4.47	41	75602	0.916 ppbv	96
22) trans-1,2-Dichloroethene	4.95	96	59103	0.993 ppbv	96
23) Vinyl Acetate	5.14	43	157173	0.901 ppbv #	96
24) 1,1-Dichloroethane	5.08	63	126325	0.945 ppbv	96
25) Ethyl Acetate	5.76	43	211722	0.914 ppbv	99
26) Hexane	5.77	57	98434	0.991 ppbv	92
27) Carbon Disulfide	4.62	76	122134	0.885 ppbv #	90
28) Methyl tert-Butyl Ether	5.11	73	134463	0.817 ppbv	99
29) Chloroform	5.83	83	163833	0.889 ppbv	94
30) Cyclohexane	7.23	84	59302m	0.715 ppbv	
31) cis-1,2-Dichloroethene	5.63	61	76327	0.766 ppbv	87
32) 1,1,1-Trichloroethane	6.61	97	160459	0.871 ppbv	99
34) 2-Butanone	5.32	43	120382	0.873 ppbv	98
35) Carbon Tetrachloride	7.12	117	171476	0.958 ppbv	96
36) Benzene	6.99	78	159328	0.799 ppbv	96
37) 1,2-Dichloroethane	6.40	62	121969	0.927 ppbv	99
38) Trichloroethene	7.95	130	66149	0.875 ppbv	96
39) 1,2-Dichloropropane	7.72	63	58261	0.780 ppbv	86
40) 1,4-Dioxane	7.97	88	26545m	0.842 ppbv	
41) Tetrahydrofuran	6.15	42	59145	0.780 ppbv	92
42) Bromodichloromethane	7.90	83	159046	0.887 ppbv	94
43) Methyl Methacrylate	8.12	69	53746	0.726 ppbv	90

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44) 2,2,4-Trimethylpentane	7.98	57	295373	0.870	ppbv	96
45) t-1,3-Dichloropropene	9.40	75	65148	0.695	ppbv	97
46) cis-1,3-Dichloropropene	8.82	75	76496	0.700	ppbv	98
47) 1,1,2-Trichloroethane	9.60	97	74484	0.870	ppbv #	86
48) Dibromochloromethane	10.43	129	127119	0.853	ppbv	99
49) Bromoform	13.18	173	108765	0.851	ppbv	97
50) 4-Methyl-2-Pentanone	8.87	43	173363	0.825	ppbv	95
51) 2-Hexanone	10.26	43	125170	0.763	ppbv #	94
52) Tetrachloroethene	11.36	164	59894	0.844	ppbv	95
53) Toluene	9.93	91	158594	0.732	ppbv	99
54) 1,2-Dibromoethane	10.75	107	106206	0.814	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.26	131	96468m	0.950	ppbv	
57) Chlorobenzene	12.29	112	161172	0.894	ppbv #	94
58) Ethyl Benzene	12.85	91	229306	0.797	ppbv	98
59) m/p-Xylene	13.13	91	441103m	1.744	ppbv	
60) o-Xylene	13.84	91	221706	0.861	ppbv	100
61) Styrene	13.67	104	129720	0.756	ppbv	96
62) Isopropylbenzene	14.81	105	304517	0.880	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.82	83	179121	0.952	ppbv	99
64) n-propylbenzene	15.71	120	78092m	0.874	ppbv	
65) tert-Butylbenzene	16.89	119	279713	0.884	ppbv	95
66) Benzyl Chloride	17.14	91	122381	0.811	ppbv	99
67) sec-Butylbenzene	17.44	105	399214	0.901	ppbv	99
69) p-Isopropyltoluene	17.80	119	319736	0.872	ppbv	98
70) n-Butylbenzene	18.70	91	358079	0.909	ppbv	97
71) 2-Chlorotoluene	15.60	91	217509	0.848	ppbv	98
72) 4-Ethyltoluene	15.98	105	243517	0.828	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.15	105	245254	0.853	ppbv	96
74) 1,2,4-Trimethylbenzene	16.91	105	297213	0.948	ppbv	92
75) 1,3-Dichlorobenzene	17.15	146	189036	0.982	ppbv	99
76) 1,4-Dichlorobenzene	17.29	146	169877m	0.930	ppbv	
77) 1,2-Dichlorobenzene	17.97	146	172370	0.952	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	146266	1.078	ppbv	99
79) Naphthalene	22.40	128	213645	0.759	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	76639	0.757	ppbv #	96
81) 1,2,4-Trichlorobenzene	22.12	180	148047	0.881	ppbv	99

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

