

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033656.D
 Acq On : 6 May 2019 12:17
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:05:58 PM

Quant Time: May 06 14:05:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 12:00:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1017816	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2492876	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2479289	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2005092	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	271280	1.598 ppbv	99
3) Chlorodifluoromethane	3.01	51	164669	1.342 ppbv	93
4) Chloromethane	3.17	50	81158	1.201 ppbv	98
5) Vinyl Chloride	3.29	62	77167	1.097 ppbv	94
6) Bromomethane	3.52	94	50029	1.197 ppbv	98
7) Chloroethane	3.60	64	28953	1.232 ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	212233	1.240 ppbv	99
9) Propene	3.04	41	58192	1.362 ppbv	100
10) Heptane	8.24	43	138371	1.064 ppbv	99
11) Trichlorofluoromethane	4.00	101	244472	1.294 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	164075	1.265 ppbv	97
13) Ethanol	3.65	45	19060	1.208 ppbv	93
14) Bromoethene	3.79	108	61853	1.177 ppbv	99
15) Acetone	3.90	43	165753	1.294 ppbv	97
16) 1,3-Butadiene	3.36	39	67418	1.182 ppbv	100
17) tert-Butyl alcohol	4.37	59	127714	1.185 ppbv	96
18) 1,1-Dichloroethene	4.35	96	66966	1.189 ppbv	95
19) Isopropyl Alcohol	4.03	45	105308	1.231 ppbv	# 93
20) Methylene Chloride	4.41	84	63587	1.269 ppbv	94
21) Allyl Chloride	4.47	41	94434	1.177 ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	65122	1.172 ppbv	96
23) Vinyl Acetate	5.15	43	204716	1.103 ppbv	98
24) 1,1-Dichloroethane	5.08	63	159342	1.147 ppbv	99
25) Ethyl Acetate	5.77	43	257921	1.089 ppbv	100
26) Hexane	5.78	57	109169	1.089 ppbv	92
27) Carbon Disulfide	4.62	76	140364	1.127 ppbv	# 92
28) Methyl tert-Butyl Ether	5.12	73	182972	1.086 ppbv	99
29) Chloroform	5.84	83	199244	1.087 ppbv	92
30) Cyclohexane	7.24	84	82122	0.966 ppbv	94
31) cis-1,2-Dichloroethene	5.63	61	105676	1.046 ppbv	# 84
32) 1,1,1-Trichloroethane	6.62	97	201965	1.051 ppbv	98
34) 2-Butanone	5.33	43	169295	1.098 ppbv	96
35) Carbon Tetrachloride	7.13	117	214592	1.073 ppbv	95
36) Benzene	7.00	78	233619m	1.082 ppbv	
37) 1,2-Dichloroethane	6.41	62	153977	1.075 ppbv	100
38) Trichloroethene	7.96	130	89615	1.045 ppbv	93
39) 1,2-Dichloropropane	7.73	63	85212	1.053 ppbv	93
40) 1,4-Dioxane	7.97	88	37336m	1.149 ppbv	
41) Tetrahydrofuran	6.16	42	80627	0.974 ppbv	99
42) Bromodichloromethane	7.91	83	206902	1.066 ppbv	93
43) Methyl Methacrylate	8.14	69	83320	1.024 ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	401777	1.071	ppbv	97
45) t-1,3-Dichloropropene	9.41	75	86269	0.821	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	111301	0.916	ppbv	92
47) 1,1,2-Trichloroethane	9.61	97	100234	1.048	ppbv	95
48) Dibromochloromethane	10.45	129	156600	0.975	ppbv	100
49) Bromoform	13.19	173	131916	0.957	ppbv	98
50) 4-Methyl-2-Pentanone	8.88	43	247245	1.022	ppbv	97
51) 2-Hexanone	10.28	43	180323	0.950	ppbv #	96
52) Tetrachloroethene	11.37	164	84389	1.032	ppbv	94
53) Toluene	9.94	91	242614	0.996	ppbv	97
54) 1,2-Dibromoethane	10.75	107	144979	1.014	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	122915	1.132	ppbv #	1
57) Chlorobenzene	12.30	112	219984	1.137	ppbv	97
58) Ethyl Benzene	12.86	91	328638	1.056	ppbv	98
59) m/p-Xylene	13.15	91	601627m	2.246	ppbv	
60) o-Xylene	13.84	91	305270	1.131	ppbv	95
61) Styrene	13.68	104	186611	1.008	ppbv	98
62) Isopropylbenzene	14.82	105	402281	1.119	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.83	83	231131	1.132	ppbv	98
64) n-propylbenzene	15.72	120	102224	1.093	ppbv	86
65) tert-Butylbenzene	16.90	119	372643	1.107	ppbv	97
66) Benzyl Chloride	17.15	91	138371	0.891	ppbv	99
67) sec-Butylbenzene	17.45	105	530150	1.123	ppbv	98
69) p-Isopropyltoluene	17.81	119	425356	1.083	ppbv	98
70) n-Butylbenzene	18.71	91	459686	1.074	ppbv	98
71) 2-Chlorotoluene	15.61	91	288889	1.070	ppbv	99
72) 4-Ethyltoluene	16.00	105	335362	1.086	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	329771	1.090	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	385233	1.148	ppbv	94
75) 1,3-Dichlorobenzene	17.16	146	236385	1.135	ppbv	97
76) 1,4-Dichlorobenzene	17.30	146	218890	1.102	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	212531	1.096	ppbv	98
78) Hexachloro-1,3-Butadiene	23.54	225	163893	1.108	ppbv	97
79) Naphthalene	22.41	128	318476	1.017	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	94559	0.711	ppbv	96
81) 1,2,4-Trichlorobenzene	22.13	180	193216	1.070	ppbv	99

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

