

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034510.D
 Acq On : 30 Dec 2019 11:05
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:48:34 AM

Quant Time: Dec 30 14:28:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 2019
 QLast Update : Mon Dec 30 14:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1113972	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2240781	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2269189	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1813045	9.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	322341	1.599 ppbv	92
3) Chlorodifluoromethane	2.96	51	281591	2.026 ppbv	100
4) Chloromethane	3.11	50	161281	1.967 ppbv	92
5) Vinyl Chloride	3.23	62	150630	1.961 ppbv	93
6) Bromomethane	3.45	94	79499	2.057 ppbv	91
7) Chloroethane	3.53	64	56235	2.017 ppbv	91
8) Dichlorotetrafluoroethane	3.16	85	382816	2.115 ppbv	95
9) Propene	2.98	41	107291	1.739 ppbv	97
10) Heptane	8.15	43	281757	1.769 ppbv	99
11) Trichlorofluoromethane	3.93	101	430451	2.146 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	278682	2.092 ppbv	99
13) Ethanol	3.58	45	34687	2.018 ppbv	92
14) Bromoethene	3.72	108	106376	1.964 ppbv	96
15) Acetone	3.83	43	356094	2.232 ppbv	96
16) 1,3-Butadiene	3.30	39	129540	1.864 ppbv	96
17) tert-Butyl alcohol	4.28	59	283398	2.114 ppbv	99
18) 1,1-Dichloroethene	4.27	96	119272	2.047 ppbv	95
19) Isopropyl Alcohol	3.95	45	229913	2.249 ppbv	# 98
20) Methylene Chloride	4.33	84	146843	2.596 ppbv	94
21) Allyl Chloride	4.40	41	192442	2.013 ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	118036	2.010 ppbv	97
23) Vinyl Acetate	5.07	43	418128	2.007 ppbv	# 99
24) 1,1-Dichloroethane	5.00	63	319952	1.999 ppbv	97
25) Ethyl Acetate	5.68	43	548639	1.927 ppbv	99
26) Hexane	5.69	57	229918	1.880 ppbv	98
27) Carbon Disulfide	4.54	76	283257	2.126 ppbv	95
28) Methyl tert-Butyl Ether	5.03	73	394717	1.946 ppbv	100
29) Chloroform	5.76	83	394980	1.994 ppbv	97
30) Cyclohexane	7.14	84	167266	1.809 ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	230921	1.827 ppbv	93
32) 1,1,1-Trichloroethane	6.52	97	389294	2.096 ppbv	100
34) 2-Butanone	5.24	43	341485	1.851 ppbv	100
35) Carbon Tetrachloride	7.03	117	419295	2.176 ppbv	93
36) Benzene	6.90	78	421341	1.881 ppbv	98
37) 1,2-Dichloroethane	6.32	62	330283	1.985 ppbv	99
38) Trichloroethene	7.86	130	167597	1.823 ppbv	89
39) 1,2-Dichloropropane	7.64	63	171999	1.993 ppbv	95
40) 1,4-Dioxane	7.87	88	74783m	1.984 ppbv	
41) Tetrahydrofuran	6.06	42	179558	1.736 ppbv	97
42) Bromodichloromethane	7.81	83	417302	2.005 ppbv	97
43) Methyl Methacrylate	8.03	69	169762	1.827 ppbv	99

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

44) 2,2,4-Trimethylpentane	7.89	57	782007	1.910	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	211285	1.773	ppbv	96
46) cis-1,3-Dichloropropene	8.73	75	248359	1.856	ppbv	99
47) 1,1,2-Trichloroethane	9.51	97	182913	1.905	ppbv	98
48) Dibromochloromethane	10.34	129	330927	2.008	ppbv	99
49) Bromoform	13.09	173	295422	2.008	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	507540	1.902	ppbv	100
51) 2-Hexanone	10.17	43	416743	1.864	ppbv #	97
52) Tetrachloroethene	11.27	164	160643m	1.658	ppbv	
53) Toluene	9.84	91	468510	1.841	ppbv	99
54) 1,2-Dibromoethane	10.65	107	277516	1.886	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.17	131	230872	2.080	ppbv #	1
57) Chlorobenzene	12.19	112	391433	1.908	ppbv	97
58) Ethyl Benzene	12.75	91	678030	1.925	ppbv	95
59) m/p-Xylene	13.04	91	1187840m	3.902	ppbv	
60) o-Xylene	13.74	91	580085	1.927	ppbv	99
61) Styrene	13.58	104	404270	1.863	ppbv	99
62) Isopropylbenzene	14.72	105	760698	1.911	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	427658	1.890	ppbv	99
64) n-propylbenzene	15.62	120	190092	1.839	ppbv	80
65) tert-Butylbenzene	16.80	119	723826	2.024	ppbv	98
66) Benzyl Chloride	17.04	91	294130m	2.138	ppbv	
67) sec-Butylbenzene	17.35	105	1015569	2.031	ppbv	97
69) p-Isopropyltoluene	17.70	119	833233	2.007	ppbv	99
70) n-Butylbenzene	18.60	91	907758	2.032	ppbv	96
71) 2-Chlorotoluene	15.51	91	610556	1.924	ppbv	99
72) 4-Ethyltoluene	15.89	105	673611	1.937	ppbv	98
73) 1,3,5-Trimethylbenzene	16.05	105	652429	1.917	ppbv	99
74) 1,2,4-Trimethylbenzene	16.82	105	696481	1.926	ppbv	98
75) 1,3-Dichlorobenzene	17.05	146	401585m	1.932	ppbv	
76) 1,4-Dichlorobenzene	17.20	146	390626	1.935	ppbv	98
77) 1,2-Dichlorobenzene	17.87	146	391770	1.952	ppbv	100
78) Hexachloro-1,3-Butadiene	23.44	225	375483m	2.177	ppbv	
79) Naphthalene	22.29	128	515675m	1.645	ppbv	
80) Naphthalene, 2-methyl-	25.03	142	75330	0.532	ppbv	96
81) 1,2,4-Trichlorobenzene	22.01	180	332575	1.727	ppbv	99

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

