

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\
 Data File : VL032874.D
 Acq On : 4 Dec 2018 9:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/10/2018 12:59:31 PM

Quant Time: Dec 05 06:04:27 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 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1305755	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3511821	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3703590m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2506580	9.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1646165	8.770	ppbv	100
3) Chlorodifluoromethane	3.02	51	1015653	9.811	ppbv	99
4) Chloromethane	3.18	50	541843	9.439	ppbv	99
5) Vinyl Chloride	3.30	62	575616	9.464	ppbv	95
6) Bromomethane	3.52	94	387186	10.406	ppbv	93
7) Chloroethane	3.61	64	227524	10.379	ppbv	97
8) Dichlorotetrafluoroethane	3.23	85	1451899	9.816	ppbv	98
9) Propene	3.04	41	422359	10.195	ppbv	100
10) Heptane	8.25	43	1696553	10.727	ppbv	99
11) Trichlorofluoromethane	4.01	101	2060245	11.647	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1677474	11.610	ppbv	96
13) Ethanol	3.65	45	102955	7.587	ppbv	99
14) Bromoethene	3.80	108	499593	10.423	ppbv	100
15) Acetone	3.91	43	1043186	8.748	ppbv	100
16) 1,3-Butadiene	3.37	39	460514	9.972	ppbv	88
17) tert-Butyl alcohol	4.36	59	442353	11.828	ppbv	100
18) 1,1-Dichloroethene	4.36	96	775601	10.917	ppbv	98
19) Isopropyl Alcohol	4.03	45	914761	11.515	ppbv	99
20) Methylene Chloride	4.42	84	669452	10.844	ppbv	98
21) Allyl Chloride	4.48	41	1197629	11.951	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	774425	11.163	ppbv	99
23) Vinyl Acetate	5.16	43	2360373	10.859	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1826038	10.567	ppbv	100
25) Ethyl Acetate	5.78	43	2869377	10.324	ppbv	99
26) Hexane	5.79	57	1312115	10.606	ppbv	99
27) Carbon Disulfide	4.63	76	1964813	12.525	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2370485	12.015	ppbv	99
29) Chloroform	5.86	83	2216567	10.052	ppbv	98
30) Cyclohexane	7.25	84	1219116	11.266	ppbv	97
31) cis-1,2-Dichloroethene	5.65	61	1355032	10.894	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2431546	10.060	ppbv	99
34) 2-Butanone	5.34	43	1826106	10.026	ppbv	99
35) Carbon Tetrachloride	7.15	117	2621385	9.285	ppbv	99
36) Benzene	7.02	78	2823464	10.096	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1789518	9.506	ppbv	99
38) Trichloroethene	7.97	130	1184227	10.464	ppbv	98
39) 1,2-Dichloropropane	7.74	63	1068215	10.026	ppbv	98
40) 1,4-Dioxane	7.97	88	368326	9.679	ppbv	97
41) Tetrahydrofuran	6.16	42	1031572	9.873	ppbv	99
42) Bromodichloromethane	7.93	83	2526222	9.899	ppbv	99
43) Methyl Methacrylate	8.15	69	1115168	10.681	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4749797	10.164	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1565793	11.177	ppbv	98
46) cis-1,3-Dichloropropene	8.85	75	1945614	11.495	ppbv	94
47) 1,1,2-Trichloroethane	9.62	97	1284115	10.192	ppbv	95
48) Dibromochloromethane	10.46	129	2236245	10.443	ppbv	100
49) Bromoform	13.21	173	2002208	11.322	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2943253	10.346	ppbv	99
51) 2-Hexanone	10.28	43	2060544	11.242	ppbv #	99
52) Tetrachloroethene	11.38	164	1066617	10.964	ppbv	99
53) Toluene	9.96	91	3335596	11.433	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1873464	10.519	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1613201	9.339	ppbv	95
57) Chlorobenzene	12.31	112	2587036	9.125	ppbv	98
58) Ethyl Benzene	12.88	91	4556774	10.223	ppbv	97
59) m/p-Xylene	13.14	91	8278509m	20.864	ppbv	
60) o-Xylene	13.86	91	4027524	10.095	ppbv	99
61) Styrene	13.70	104	2787699	10.734	ppbv	99
62) Isopropylbenzene	14.84	105	5407606	10.028	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2796346	8.991	ppbv	100
64) n-propylbenzene	15.74	120	1365533	9.627	ppbv	97
65) tert-Butylbenzene	16.92	119	4774571	9.877	ppbv	98
66) Benzyl Chloride	17.17	91	2683897	10.042	ppbv	99
67) sec-Butylbenzene	17.47	105	6602321	9.477	ppbv	99
69) p-Isopropyltoluene	17.83	119	5409609	9.766	ppbv	99
70) n-Butylbenzene	18.73	91	5284446	9.395	ppbv	100
71) 2-Chlorotoluene	15.63	91	3953651	9.831	ppbv	98
72) 4-Ethyltoluene	16.01	105	4621803	10.569	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4394444	10.278	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	4181387	9.139	ppbv	95
75) 1,3-Dichlorobenzene	17.18	146	2350863	8.958	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2305418	9.404	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2275662	9.373	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	942894	7.196	ppbv	99
79) Naphthalene	22.42	128	2928665	9.744	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	825971	10.972	ppbv	97
81) 1,2,4-Trichlorobenzene	22.15	180	1616989	10.713	ppbv	99

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

