

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033496.D
 Acq On : 29 Mar 2019 9:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 4:03:06 AM

Quant Time: Mar 30 01:45:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	928329	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2259651	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2526223	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1768155	8.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1160502	8.571	ppbv	99
3) Chlorodifluoromethane	3.01	51	1033324	9.669	ppbv	97
4) Chloromethane	3.17	50	572288	10.119	ppbv	99
5) Vinyl Chloride	3.29	62	563686	10.144	ppbv	95
6) Bromomethane	3.52	94	367601	10.294	ppbv	98
7) Chloroethane	3.60	64	213643	10.331	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1380595	9.570	ppbv	95
9) Propene	3.04	41	458662	10.219	ppbv	97
10) Heptane	8.25	43	1238813	10.326	ppbv	99
11) Trichlorofluoromethane	4.00	101	1552291	9.303	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1081728	9.652	ppbv	97
13) Ethanol	3.64	45	116946	10.069	ppbv	66
14) Bromoethene	3.79	108	466008	10.425	ppbv	98
15) Acetone	3.90	43	1000694	8.965	ppbv	98
16) 1,3-Butadiene	3.36	39	502054	11.340	ppbv	99
17) tert-Butyl alcohol	4.36	59	202479	9.866	ppbv	98
18) 1,1-Dichloroethene	4.35	96	498200	10.349	ppbv	95
19) Isopropyl Alcohol	4.02	45	675020	9.561	ppbv #	99
20) Methylene Chloride	4.41	84	434840	9.177	ppbv	96
21) Allyl Chloride	4.48	41	742147	10.518	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	496906	9.893	ppbv	93
23) Vinyl Acetate	5.15	43	1720218	10.827	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1180630	9.783	ppbv	99
25) Ethyl Acetate	5.77	43	2099703	10.139	ppbv	99
26) Hexane	5.78	57	948899	10.305	ppbv	97
27) Carbon Disulfide	4.62	76	1171007	10.694	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1402386	10.574	ppbv	100
29) Chloroform	5.85	83	1558317	9.872	ppbv	100
30) Cyclohexane	7.25	84	799080	10.969	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	1010080	11.033	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	1525128	10.147	ppbv	99
34) 2-Butanone	5.33	43	1356632	9.993	ppbv	99
35) Carbon Tetrachloride	7.14	117	1579775	9.871	ppbv	99
36) Benzene	7.01	78	1992271	10.508	ppbv	96
37) 1,2-Dichloroethane	6.41	62	1182047	9.301	ppbv	98
38) Trichloroethene	7.96	130	805555	11.289	ppbv	98
39) 1,2-Dichloropropane	7.74	63	744436	10.023	ppbv	98
40) 1,4-Dioxane	7.95	88	283275	10.694	ppbv	90
41) Tetrahydrofuran	6.15	42	789868	10.578	ppbv	96
42) Bromodichloromethane	7.92	83	1711700	9.889	ppbv	98
43) Methyl Methacrylate	8.14	69	827748	10.752	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3287673	9.923	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1119101	11.840	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1256013	11.379	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	856950	10.161	ppbv	99
48) Dibromochloromethane	10.45	129	1560322	10.968	ppbv	98
49) Bromoform	13.21	173	1398011	10.287	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2033754	10.231	ppbv	98
51) 2-Hexanone	10.27	43	1641287	11.068	ppbv	99
52) Tetrachloroethene	11.38	164	810694	11.333	ppbv	98
53) Toluene	9.95	91	2487683	11.291	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1392280	10.554	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	1079385	9.323	ppbv	95
57) Chlorobenzene	12.30	112	1864201	9.504	ppbv	92
58) Ethyl Benzene	12.87	91	3389143	10.046	ppbv	99
59) m/p-Xylene	13.15	91	5691614m	18.888	ppbv	
60) o-Xylene	13.85	91	2768659	9.502	ppbv	99
61) Styrene	13.69	104	2134368	10.673	ppbv	98
62) Isopropylbenzene	14.83	105	3928926	9.522	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1908146	8.894	ppbv	99
64) n-propylbenzene	15.72	120	1006421	9.612	ppbv	98
65) tert-Butylbenzene	16.91	119	3499239	9.624	ppbv	98
66) Benzyl Chloride	17.16	91	1878494	11.110	ppbv	98
67) sec-Butylbenzene	17.46	105	4945203	9.563	ppbv	100
69) p-Isopropyltoluene	17.82	119	4130250	9.810	ppbv	99
70) n-Butylbenzene	18.72	91	4313065	9.669	ppbv	99
71) 2-Chlorotoluene	15.62	91	3009647	9.592	ppbv	99
72) 4-Ethyltoluene	16.00	105	3202102	9.776	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3090856	9.861	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3197813	9.519	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1925557	9.273	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1926658	9.523	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1881405	9.550	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1408158	10.797	ppbv	99
79) Naphthalene	22.42	128	3263985	11.350	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1532626	15.880	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	1669836	10.468	ppbv	100

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

