

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
 Data File : VL034182.D
 Acq On : 17 Sep 2019 14:03
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:44:08 AM

Quant Time: Sep 19 07:47:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1198007	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2131271	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2346784	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1927492	9.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1320184	7.460	ppbv	100
3) Chlorodifluoromethane	2.97	51	1275251	9.079	ppbv	99
4) Chloromethane	3.12	50	781034	9.462	ppbv	96
5) Vinyl Chloride	3.24	62	691305	9.164	ppbv	100
6) Bromomethane	3.47	94	341980	9.716	ppbv	98
7) Chloroethane	3.55	64	250762	9.510	ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	1414952	9.060	ppbv	99
9) Propene	2.99	41	654206	9.440	ppbv	99
10) Heptane	8.17	43	1687444	9.343	ppbv	100
11) Trichlorofluoromethane	3.95	101	1490992	9.256	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	982449	9.320	ppbv	99
13) Ethanol	3.60	45	145371	8.663	ppbv	95
14) Bromoethene	3.74	108	431239	10.006	ppbv	98
15) Acetone	3.85	43	1261034	7.854	ppbv	99
16) 1,3-Butadiene	3.31	39	674553	9.627	ppbv	100
17) tert-Butyl alcohol	4.30	59	1101325	10.825	ppbv	100
18) 1,1-Dichloroethene	4.29	96	447059	9.723	ppbv	93
19) Isopropyl Alcohol	3.97	45	1011899	10.248	ppbv	# 99
20) Methylene Chloride	4.35	84	418110	9.032	ppbv	95
21) Allyl Chloride	4.42	41	886935	9.780	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	446135	9.698	ppbv	100
23) Vinyl Acetate	5.09	43	2227393	9.414	ppbv	98
24) 1,1-Dichloroethane	5.03	63	1466543	9.205	ppbv	99
25) Ethyl Acetate	5.70	43	2692373	8.867	ppbv	100
26) Hexane	5.72	57	1166707	9.237	ppbv	97
27) Carbon Disulfide	4.56	76	1215899	10.438	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1821092	9.708	ppbv	100
29) Chloroform	5.79	83	1684459	9.333	ppbv	99
30) Cyclohexane	7.18	84	895750	9.823	ppbv	99
31) cis-1,2-Dichloroethene	5.58	61	1228185	9.539	ppbv	98
32) 1,1,1-Trichloroethane	6.55	97	1613856	9.272	ppbv	99
34) 2-Butanone	5.27	43	1877574	8.628	ppbv	98
35) Carbon Tetrachloride	7.06	117	1570508	8.870	ppbv	97
36) Benzene	6.93	78	2122739	9.018	ppbv	99
37) 1,2-Dichloroethane	6.35	62	1489104	8.894	ppbv	99
38) Trichloroethene	7.89	130	706287	8.398	ppbv	98
39) 1,2-Dichloropropane	7.67	63	958636	9.064	ppbv	98
40) 1,4-Dioxane	7.88	88	328349	9.594	ppbv	# 87
41) Tetrahydrofuran	6.08	42	1143652	9.331	ppbv	99
42) Bromodichloromethane	7.85	83	1843890	9.177	ppbv	100
43) Methyl Methacrylate	8.07	69	933561	9.601	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3909104	8.627	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1201106	10.447	ppbv	98
46) cis-1,3-Dichloropropene	8.76	75	1369192	9.900	ppbv	97
47) 1,1,2-Trichloroethane	9.54	97	848620	8.936	ppbv	96
48) Dibromochloromethane	10.38	129	1382420	9.184	ppbv	100
49) Bromoform	13.12	173	1143372	9.387	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2769698	8.745	ppbv	100
51) 2-Hexanone	10.19	43	2345738	8.826	ppbv #	99
52) Tetrachloroethene	11.30	164	661617	8.508	ppbv	98
53) Toluene	9.87	91	2359171	9.171	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1250561	8.855	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.20	131	895045m	8.552	ppbv	
57) Chlorobenzene	12.23	112	1648663	8.069	ppbv	99
58) Ethyl Benzene	12.79	91	3145910	8.308	ppbv	98
59) m/p-Xylene	13.08	91	5112202m	16.300	ppbv	
60) o-Xylene	13.78	91	2535923	8.086	ppbv	100
61) Styrene	13.61	104	1914260	8.521	ppbv	100
62) Isopropylbenzene	14.75	105	3290924	8.106	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1830825	7.119	ppbv	100
64) n-propylbenzene	15.65	120	855784	8.332	ppbv	95
65) tert-Butylbenzene	16.83	119	2786366	7.855	ppbv	100
66) Benzyl Chloride	17.08	91	1251290	9.970	ppbv	98
67) sec-Butylbenzene	17.38	105	4002948	7.891	ppbv	100
69) p-Isopropyltoluene	17.74	119	3246417	7.904	ppbv	99
70) n-Butylbenzene	18.64	91	3712106	7.762	ppbv	99
71) 2-Chlorotoluene	15.54	91	2696633	8.130	ppbv	99
72) 4-Ethyltoluene	15.92	105	2873766	8.111	ppbv	100
73) 1,3,5-Trimethylbenzene	16.09	105	2769910	8.092	ppbv	99
74) 1,2,4-Trimethylbenzene	16.85	105	2773060	7.630	ppbv	98
75) 1,3-Dichlorobenzene	17.09	146	1517188	7.780	ppbv	98
76) 1,4-Dichlorobenzene	17.23	146	1542107	7.722	ppbv	100
77) 1,2-Dichlorobenzene	17.91	146	1511725	7.659	ppbv	99
78) Hexachloro-1,3-Butadiene	23.47	225	1128965	8.636	ppbv	99
79) Naphthalene	22.32	128	2509330	7.842	ppbv	96
80) Naphthalene, 2-methyl-	25.05	142	1137470	7.644	ppbv	98
81) 1,2,4-Trichlorobenzene	22.05	180	1378444	7.777	ppbv	99

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

