

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
 Data File : VL034177.D
 Acq On : 17 Sep 2019 8:45
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:44:15 AM

Quant Time: Sep 17 09:25:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 17 09:25:43 2019
 QLast Update : Tue Sep 17 08:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1254396	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2181646	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2340734	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1953991	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1466602	7.915	ppbv	97
3) Chlorodifluoromethane	2.97	51	1347251	9.160	ppbv	100
4) Chloromethane	3.13	50	768456	8.891	ppbv	98
5) Vinyl Chloride	3.25	62	676482	8.564	ppbv	94
6) Bromomethane	3.47	94	342740	9.300	ppbv	92
7) Chloroethane	3.56	64	241276	8.739	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	1404648	8.589	ppbv	99
9) Propene	3.00	41	655108	9.028	ppbv	98
10) Heptane	8.18	43	1696008	8.968	ppbv	100
11) Trichlorofluoromethane	3.95	101	1451200	8.604	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.50	101	970182	8.790	ppbv	100
13) Ethanol	3.60	45	163391	7.804	ppbv	96
14) Bromoethene	3.74	108	424689	9.411	ppbv	97
15) Acetone	3.85	43	1359432	8.086	ppbv	100
16) 1,3-Butadiene	3.32	39	665386	9.069	ppbv	99
17) tert-Butyl alcohol	4.30	59	1093459	10.265	ppbv	100
18) 1,1-Dichloroethene	4.30	96	443108	9.204	ppbv	90
19) Isopropyl Alcohol	3.97	45	1036251	10.023	ppbv	99
20) Methylene Chloride	4.36	84	402649	8.307	ppbv	96
21) Allyl Chloride	4.42	41	877350	9.239	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	443516	9.208	ppbv	95
23) Vinyl Acetate	5.10	43	2314531	9.342	ppbv	99
24) 1,1-Dichloroethane	5.04	63	1450905	8.698	ppbv	99
25) Ethyl Acetate	5.71	43	2643610	8.315	ppbv	100
26) Hexane	5.72	57	1127933	8.529	ppbv	99
27) Carbon Disulfide	4.56	76	1193405	9.785	ppbv	99
28) Methyl tert-Butyl Ether	5.06	73	1765832	8.990	ppbv	100
29) Chloroform	5.79	83	1676634	8.872	ppbv	98
30) Cyclohexane	7.18	84	870524	9.117	ppbv	99
31) cis-1,2-Dichloroethene	5.58	61	1230988	9.131	ppbv	97
32) 1,1,1-Trichloroethane	6.56	97	1575269	8.643	ppbv	100
34) 2-Butanone	5.27	43	1913639	8.591	ppbv	99
35) Carbon Tetrachloride	7.07	117	1550430	8.554	ppbv	99
36) Benzene	6.94	78	2120171	8.799	ppbv	99
37) 1,2-Dichloroethane	6.35	62	1496854	8.734	ppbv	100
38) Trichloroethene	7.89	130	699389	8.124	ppbv	98
39) 1,2-Dichloropropane	7.67	63	945506	8.734	ppbv	95
40) 1,4-Dioxane	7.88	88	329850	9.415	ppbv #	86
41) Tetrahydrofuran	6.09	42	1144180	9.120	ppbv	100
42) Bromodichloromethane	7.85	83	1864087	9.063	ppbv	99
43) Methyl Methacrylate	8.07	69	957605	9.621	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3892680	8.392	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1176052	9.993	ppbv	99
46) cis-1,3-Dichloropropene	8.77	75	1363376	9.630	ppbv	98
47) 1,1,2-Trichloroethane	9.55	97	853914	8.784	ppbv	97
48) Dibromochloromethane	10.38	129	1418587	9.207	ppbv	100
49) Bromoform	13.13	173	1178784	9.454	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2811778	8.673	ppbv	99
51) 2-Hexanone	10.20	43	2443017	8.979	ppbv #	99
52) Tetrachloroethene	11.30	164	671107	8.430	ppbv	97
53) Toluene	9.88	91	2355514	8.945	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1320172	9.132	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	916985	8.784	ppbv #	56
57) Chlorobenzene	12.23	112	1700657	8.345	ppbv	98
58) Ethyl Benzene	12.79	91	3227887	8.546	ppbv	99
59) m/p-Xylene	13.08	91	5221536m	16.691	ppbv	
60) o-Xylene	13.78	91	2618492	8.371	ppbv	99
61) Styrene	13.61	104	1976229	8.820	ppbv	100
62) Isopropylbenzene	14.75	105	3402469	8.403	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1929808m	7.524	ppbv	
64) n-propylbenzene	15.65	120	890078	8.688	ppbv	96
65) tert-Butylbenzene	16.84	119	2900253	8.197	ppbv	100
66) Benzyl Chloride	17.09	91	1482162	11.841	ppbv	99
67) sec-Butylbenzene	17.38	105	4194804	8.291	ppbv	99
69) p-Isopropyltoluene	17.74	119	3442932	8.404	ppbv	99
70) n-Butylbenzene	18.64	91	3968146	8.318	ppbv	100
71) 2-Chlorotoluene	15.54	91	2828616	8.550	ppbv	99
72) 4-Ethyltoluene	15.93	105	3017454	8.538	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2901015	8.497	ppbv	99
74) 1,2,4-Trimethylbenzene	16.85	105	2898527	7.995	ppbv	98
75) 1,3-Dichlorobenzene	17.09	146	1605181	8.253	ppbv	99
76) 1,4-Dichlorobenzene	17.24	146	1648004	8.273	ppbv	99
77) 1,2-Dichlorobenzene	17.92	146	1616331	8.210	ppbv	99
78) Hexachloro-1,3-Butadiene	23.47	225	1253787	9.615	ppbv	99
79) Naphthalene	22.32	128	3033539	9.505	ppbv	98
80) Naphthalene, 2-methyl-	25.05	142	1298987	8.752	ppbv	99
81) 1,2,4-Trichlorobenzene	22.04	180	1477413	8.357	ppbv	100

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

