

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033880.D
 Acq On : 7 Jun 2019 5:54
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 9:18:41 AM

Quant Time: Jun 07 06:37:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 05:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	900785	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2172918	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2515890	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1896197	9.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1660377	9.127	ppbv	99
3) Chlorodifluoromethane	3.01	51	1430359	13.791	ppbv	99
4) Chloromethane	3.17	50	813195	13.711	ppbv	98
5) Vinyl Chloride	3.28	62	827605	13.695	ppbv	100
6) Bromomethane	3.51	94	538051	14.580	ppbv	94
7) Chloroethane	3.60	64	310195	14.374	ppbv	95
8) Dichlorotetrafluoroethane	3.21	85	2135180	13.758	ppbv	99
9) Propene	3.03	41	592856	13.705	ppbv	98
10) Heptane	8.24	43	1763589	14.413	ppbv	99
11) Trichlorofluoromethane	4.00	101	2664453	14.612	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1791542	14.110	ppbv	99
13) Ethanol	3.64	45	100897	7.247	ppbv	99
14) Bromoethene	3.78	108	719997	15.171	ppbv	99
15) Acetone	3.89	43	1649425	13.220	ppbv	100
16) 1,3-Butadiene	3.35	39	753457	14.955	ppbv	100
17) tert-Butyl alcohol	4.35	59	1195310	11.518	ppbv	100
18) 1,1-Dichloroethene	4.34	96	793689	14.802	ppbv	99
19) Isopropyl Alcohol	4.01	45	873268	10.770	ppbv	99
20) Methylene Chloride	4.40	84	673136	13.887	ppbv	98
21) Allyl Chloride	4.47	41	1151191	14.846	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	820654	14.674	ppbv	98
23) Vinyl Acetate	5.15	43	2425639	14.798	ppbv	99
24) 1,1-Dichloroethane	5.08	63	1725645	13.730	ppbv	99
25) Ethyl Acetate	5.76	43	2996632	13.761	ppbv	100
26) Hexane	5.77	57	1308083	14.006	ppbv	100
27) Carbon Disulfide	4.61	76	2033405	15.676	ppbv	99
28) Methyl tert-Butyl Ether	5.10	73	2232454	14.425	ppbv	99
29) Chloroform	5.84	83	2291553	13.235	ppbv	98
30) Cyclohexane	7.24	84	1146153	14.692	ppbv	99
31) cis-1,2-Dichloroethene	5.63	61	1344371	14.362	ppbv	98
32) 1,1,1-Trichloroethane	6.61	97	2479477	14.313	ppbv	100
34) 2-Butanone	5.32	43	1932249	14.384	ppbv	100
35) Carbon Tetrachloride	7.13	117	2694175	15.451	ppbv	96
36) Benzene	7.00	78	2766715	14.251	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1868272	14.585	ppbv	99
38) Trichloroethene	7.95	130	1204763	16.368	ppbv	99
39) 1,2-Dichloropropane	7.73	63	1047900	14.401	ppbv	94
40) 1,4-Dioxane	7.94	88	367116	11.960	ppbv #	50
41) Tetrahydrofuran	6.14	42	1076239	14.575	ppbv	100
42) Bromodichloromethane	7.91	83	2655329	15.215	ppbv	98
43) Methyl Methacrylate	8.13	69	1159866	16.097	ppbv	98

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

44) 2,2,4-Trimethylpentane	7.98	57	4767126	14.417	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1639924	17.973	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1812717	17.035	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	1226359	14.713	ppbv	97
48) Dibromochloromethane	10.44	129	2376797	16.382	ppbv	99
49) Bromoform	13.19	173	2210869	17.774	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	3140559	15.346	ppbv	100
51) 2-Hexanone	10.26	43	2623939	16.422	ppbv #	99
52) Tetrachloroethene	11.36	164	1148397	16.610	ppbv	97
53) Toluene	9.94	91	3423445	16.216	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1974803	15.553	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1573875	13.631	ppbv #	73
57) Chlorobenzene	12.29	112	2725360	13.299	ppbv	97
58) Ethyl Benzene	12.86	91	4805869	14.681	ppbv	95
59) m/p-Xylene	13.14	91	8152824m	28.341	ppbv	
60) o-Xylene	13.84	91	4167959	14.241	ppbv	100
61) Styrene	13.68	104	3132958	16.055	ppbv	100
62) Isopropylbenzene	14.82	105	5549656	14.098	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2965523	13.863	ppbv	99
64) n-propylbenzene	15.71	120	1464990	14.416	ppbv	96
65) tert-Butylbenzene	16.90	119	5275884	14.670	ppbv	99
66) Benzyl Chloride	17.15	91	3104537	18.091	ppbv	100
67) sec-Butylbenzene	17.45	105	7317921	14.519	ppbv	100
69) p-Isopropyltoluene	17.81	119	6281166	15.066	ppbv	100
70) n-Butylbenzene	18.70	91	6620386	14.774	ppbv	99
71) 2-Chlorotoluene	15.61	91	4307469	14.764	ppbv	100
72) 4-Ethyltoluene	15.99	105	5049399	15.107	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	4818743	14.742	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	5142118	14.419	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	3068900	14.019	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	3050687	14.692	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	2988754	14.519	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1920530	12.450	ppbv	99
79) Naphthalene	22.40	128	4689983	14.659	ppbv	98
80) Naphthalene, 2-methyl-	25.10	142	2063389	17.916	ppbv #	94
81) 1,2,4-Trichlorobenzene	22.13	180	2733311	14.299	ppbv	100

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

