

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091819\
 Data File : VL034184.D
 Acq On : 18 Sep 2019 14:39
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:37:13 AM

Quant Time: Sep 19 06:55:11 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	1181758	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2043178	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2231487	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1876105	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1408964	8.072 ppbv	99
3) Chlorodifluoromethane	2.97	51	1306363	9.428 ppbv	100
4) Chloromethane	3.13	50	783338	9.620 ppbv	92
5) Vinyl Chloride	3.25	62	693459	9.319 ppbv	96
6) Bromomethane	3.47	94	329271	9.484 ppbv	97
7) Chloroethane	3.55	64	245574	9.442 ppbv #	87
8) Dichlorotetrafluoroethane	3.18	85	1429679	9.280 ppbv	99
9) Propene	3.00	41	647303	9.469 ppbv	100
10) Heptane	8.18	43	1710831	9.602 ppbv	100
11) Trichlorofluoromethane	3.95	101	1514120	9.529 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	990391	9.524 ppbv	99
13) Ethanol	3.60	45	143302	8.657 ppbv	96
14) Bromoethene	3.74	108	425008	9.997 ppbv	99
15) Acetone	3.85	43	1294888	8.175 ppbv	100
16) 1,3-Butadiene	3.32	39	689268	9.972 ppbv	98
17) tert-Butyl alcohol	4.30	59	1119714	11.157 ppbv	100
18) 1,1-Dichloroethene	4.30	96	445437	9.821 ppbv	91
19) Isopropyl Alcohol	3.97	45	1039793	10.676 ppbv	100
20) Methylene Chloride	4.35	84	400590	8.772 ppbv	98
21) Allyl Chloride	4.42	41	905610	10.123 ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	451572	9.951 ppbv	98
23) Vinyl Acetate	5.10	43	2241373	9.603 ppbv	99
24) 1,1-Dichloroethane	5.03	63	1475832	9.391 ppbv	99
25) Ethyl Acetate	5.71	43	2734692	9.131 ppbv	100
26) Hexane	5.72	57	1149632	9.227 ppbv	99
27) Carbon Disulfide	4.56	76	1234718	10.746 ppbv	100
28) Methyl tert-Butyl Ether	5.05	73	1763350	9.530 ppbv	100
29) Chloroform	5.79	83	1723260	9.679 ppbv	99
30) Cyclohexane	7.18	84	871839	9.693 ppbv	99
31) cis-1,2-Dichloroethene	5.58	61	1251566	9.854 ppbv	99
32) 1,1,1-Trichloroethane	6.56	97	1642082	9.564 ppbv	99
34) 2-Butanone	5.27	43	1937007	9.285 ppbv	99
35) Carbon Tetrachloride	7.07	117	1633296	9.622 ppbv	99
36) Benzene	6.94	78	2093777	9.279 ppbv	100
37) 1,2-Dichloroethane	6.35	62	1560767	9.724 ppbv	100
38) Trichloroethene	7.89	130	705019	8.744 ppbv	98
39) 1,2-Dichloropropane	7.67	63	942067	9.292 ppbv	98
40) 1,4-Dioxane	7.88	88	319605	9.741 ppbv #	92
41) Tetrahydrofuran	6.08	42	1167985	9.940 ppbv	99
42) Bromodichloromethane	7.85	83	1899299	9.860 ppbv	100
43) Methyl Methacrylate	8.07	69	947849	10.168 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3918320	9.020	ppbv	100
45) t-1,3-Dichloropropene	9.34	75	1243739	11.284	ppbv	95
46) cis-1,3-Dichloropropene	8.76	75	1391093	10.492	ppbv	96
47) 1,1,2-Trichloroethane	9.55	97	857176	9.415	ppbv	97
48) Dibromochloromethane	10.37	129	1421630	9.852	ppbv	99
49) Bromoform	13.13	173	1199470	10.272	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2843468	9.365	ppbv	98
51) 2-Hexanone	10.20	43	2448891	9.611	ppbv #	100
52) Tetrachloroethene	11.30	164	666001	8.933	ppbv	97
53) Toluene	9.87	91	2378162	9.643	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1283265	9.478	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.20	131	914756	9.192	ppbv #	57
57) Chlorobenzene	12.22	112	1677142	8.632	ppbv	98
58) Ethyl Benzene	12.79	91	3224901	8.957	ppbv	100
59) m/p-Xylene	13.07	91	5279655m	17.704	ppbv	
60) o-Xylene	13.77	91	2619198	8.783	ppbv	99
61) Styrene	13.61	104	1964997	9.199	ppbv	99
62) Isopropylbenzene	14.75	105	3381970	8.761	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1941206	7.939	ppbv	99
64) n-propylbenzene	15.64	120	868551	8.893	ppbv	90
65) tert-Butylbenzene	16.83	119	2880787	8.541	ppbv	99
66) Benzyl Chloride	17.08	91	1445484	12.113	ppbv	99
67) sec-Butylbenzene	17.38	105	4169914	8.645	ppbv	100
69) p-Isopropyltoluene	17.74	119	3401876	8.710	ppbv	100
70) n-Butylbenzene	18.64	91	3882113	8.536	ppbv	99
71) 2-Chlorotoluene	15.54	91	2814302	8.923	ppbv	100
72) 4-Ethyltoluene	15.92	105	3022083	8.970	ppbv	100
73) 1,3,5-Trimethylbenzene	16.08	105	2889076	8.876	ppbv	97
74) 1,2,4-Trimethylbenzene	16.85	105	2915441	8.436	ppbv	93
75) 1,3-Dichlorobenzene	17.09	146	1596900	8.612	ppbv	99
76) 1,4-Dichlorobenzene	17.23	146	1616834	8.514	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1594731	8.497	ppbv	100
78) Hexachloro-1,3-Butadiene	23.46	225	1188618	9.562	ppbv	98
79) Naphthalene	22.32	128	2647931	8.703	ppbv	95
80) Naphthalene, 2-methyl-	25.05	142	1433983	10.135	ppbv	99
81) 1,2,4-Trichlorobenzene	22.04	180	1437502	8.529	ppbv	100

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

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