

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\
 Data File : VL035468.D
 Acq On : 19 Aug 2020 13:47
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/20/2020 11:08:01 AM

Quant Time: Aug 20 03:56:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 1
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1014788	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4757600	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5012483m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	3469200	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1870090	9.943	ppbv	98
3) Chlorodifluoromethane	2.99	51	1316207	10.345	ppbv #	90
4) Chloromethane	3.14	50	692882	10.453	ppbv	96
5) Vinyl Chloride	3.26	62	843597	10.649	ppbv	95
6) Bromomethane	3.47	94	747510	10.789	ppbv	100
7) Chloroethane	3.56	64	312066	10.693	ppbv	96
8) Dichlorotetrafluoroethane	3.19	85	2424505	10.067	ppbv #	61
9) Propene	3.01	41	516449	10.098	ppbv	99
10) Heptane	8.14	43	1389912	10.365	ppbv #	78
11) Trichlorofluoromethane	3.95	101	2946638	9.984	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2223841	10.112	ppbv #	83
13) Ethanol	3.61	45	122863	6.557	ppbv	99
14) Bromoethene	3.74	108	1045204	10.754	ppbv #	95
15) Acetone	3.85	43	1069857	9.160	ppbv #	82
16) 1,3-Butadiene	3.33	39	504350	10.648	ppbv #	65
17) tert-Butyl alcohol	4.30	59	1650656	10.934	ppbv	99
18) 1,1-Dichloroethene	4.29	96	1041556	10.726	ppbv #	59
19) Isopropyl Alcohol	3.97	45	810411	10.067	ppbv #	97
20) Methylene Chloride	4.35	84	843369	8.949	ppbv #	64
21) Allyl Chloride	4.41	41	653122	11.004	ppbv #	81
22) trans-1,2-Dichloroethene	4.89	96	1089404	10.513	ppbv #	64
23) Vinyl Acetate	5.08	43	1760597	10.544	ppbv #	93
24) 1,1-Dichloroethane	5.02	63	1736175	10.419	ppbv #	93
25) Ethyl Acetate	5.69	43	2278721	10.026	ppbv #	92
26) Hexane	5.70	57	1313496	10.241	ppbv #	74
27) Carbon Disulfide	4.55	76	2124369	11.458	ppbv #	85
28) Methyl tert-Butyl Ether	5.04	73	2486925	10.614	ppbv	91
29) Chloroform	5.76	83	2714093	10.532	ppbv	98
30) Cyclohexane	7.14	84	1544455	10.853	ppbv #	60
31) cis-1,2-Dichloroethene	5.56	61	1447890	10.733	ppbv #	59
32) 1,1,1-Trichloroethane	6.52	97	2775247	11.491	ppbv #	89
34) 2-Butanone	5.25	43	1580509	9.943	ppbv #	71
35) Carbon Tetrachloride	7.03	117	2946083	11.643	ppbv	98
36) Benzene	6.91	78	3515816	10.069	ppbv #	93
37) 1,2-Dichloroethane	6.32	62	1664243	10.429	ppbv #	89
38) Trichloroethene	7.85	130	1945423	10.016	ppbv #	83
39) 1,2-Dichloropropane	7.63	63	1179447	10.249	ppbv #	82
40) 1,4-Dioxane	7.84	88	615181	9.813	ppbv #	26
41) Tetrahydrofuran	6.06	42	910611	10.385	ppbv #	57
42) Bromodichloromethane	7.81	83	2877793	10.777	ppbv #	98
43) Methyl Methacrylate	8.03	69	1465141	10.730	ppbv #	57

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	4410542	9.673	ppbv #	92
45) t-1,3-Dichloropropene	9.30	75	1696616	12.062	ppbv	94
46) cis-1,3-Dichloropropene	8.72	75	1978226	11.290	ppbv #	75
47) 1,1,2-Trichloroethane	9.50	97	1777465	10.340	ppbv	93
48) Dibromochloromethane	10.33	129	3179675	11.027	ppbv	99
49) Bromoform	13.07	173	3133585	11.280	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2335177	10.241	ppbv #	80
51) 2-Hexanone	10.15	43	2000369	10.408	ppbv #	76
52) Tetrachloroethene	11.25	164	2091853	9.821	ppbv #	85
53) Toluene	9.83	91	4555179	10.128	ppbv	98
54) 1,2-Dibromoethane	10.64	107	2869094	10.277	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	2487031	10.460	ppbv	97
57) Chlorobenzene	12.17	112	3982271	9.518	ppbv #	81
58) Ethyl Benzene	12.74	91	5941185	9.819	ppbv #	82
59) m/p-Xylene	13.02	91	9583801m	18.737	ppbv	
60) o-Xylene	13.72	91	4890018	9.837	ppbv	86
61) Styrene	13.55	104	4160912	10.359	ppbv #	90
62) Isopropylbenzene	14.70	105	7575410	9.298	ppbv #	86
63) 1,1,2,2-Tetrachloroethane	13.71	83	3419238	9.575	ppbv	97
64) n-propylbenzene	15.59	120	2566870	10.221	ppbv #	44
65) tert-Butylbenzene	16.78	119	7379385	9.320	ppbv #	83
66) Benzyl Chloride	17.02	91	2526703	13.267	ppbv #	89
67) sec-Butylbenzene	17.33	105	9349605	8.973	ppbv #	82
69) p-Isopropyltoluene	17.69	119	8520160	9.215	ppbv #	89
70) n-Butylbenzene	18.58	91	8163959	9.348	ppbv #	89
71) 2-Chlorotoluene	15.48	91	5805634	9.821	ppbv	77
72) 4-Ethyltoluene	15.87	105	6420822	9.842	ppbv #	91
73) 1,3,5-Trimethylbenzene	16.03	105	6019553	9.916	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.79	105	6201775	9.403	ppbv #	89
75) 1,3-Dichlorobenzene	17.03	146	4752057	9.328	ppbv	92
76) 1,4-Dichlorobenzene	17.17	146	4887655	9.735	ppbv	92
77) 1,2-Dichlorobenzene	17.85	146	4747708	9.515	ppbv	91
78) Hexachloro-1,3-Butadiene	23.42	225	3433040	8.702	ppbv	98
79) Naphthalene	22.24	128	8817611	9.493	ppbv	96
80) Naphthalene, 2-methyl-	25.00	142	4180405	10.891	ppbv #	93
81) 1,2,4-Trichlorobenzene	21.97	180	5278990	9.428	ppbv	99

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

