

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034541.D
 Acq On : 31 Dec 2019 10:20
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:50:25 AM

Quant Time: Dec 31 16:26:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 31 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1004936	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2036055	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2152854	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1718287	9.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1434335	9.050	ppbv	97
3) Chlorodifluoromethane	2.96	51	1084573	9.058	ppbv	100
4) Chloromethane	3.11	50	666567	9.372	ppbv	99
5) Vinyl Chloride	3.23	62	617399	8.865	ppbv	99
6) Bromomethane	3.45	94	334287	9.643	ppbv	98
7) Chloroethane	3.53	64	235441	9.701	ppbv	97
8) Dichlorotetrafluoroethane	3.16	85	1471163	9.255	ppbv	100
9) Propene	2.98	41	461500	9.997	ppbv	100
10) Heptane	8.15	43	1207088	10.126	ppbv	99
11) Trichlorofluoromethane	3.93	101	1680499	9.163	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1138776	9.762	ppbv	97
13) Ethanol	3.58	45	105029	8.200	ppbv	98
14) Bromoethene	3.72	108	457610	9.699	ppbv	99
15) Acetone	3.83	43	1225015	8.353	ppbv	100
16) 1,3-Butadiene	3.30	39	570473	10.114	ppbv	100
17) tert-Butyl alcohol	4.28	59	1163702	9.909	ppbv	99
18) 1,1-Dichloroethene	4.28	96	496540	9.772	ppbv	92
19) Isopropyl Alcohol	3.95	45	906299	9.546	ppbv	100
20) Methylene Chloride	4.33	84	446881	7.744	ppbv	98
21) Allyl Chloride	4.40	41	850236	10.086	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	514156	9.948	ppbv	98
23) Vinyl Acetate	5.07	43	1721799	10.169	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1286559	9.458	ppbv	98
25) Ethyl Acetate	5.68	43	2206591	9.634	ppbv	100
26) Hexane	5.69	57	923244	9.566	ppbv	98
27) Carbon Disulfide	4.54	76	1270310	10.413	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1668858	10.353	ppbv	100
29) Chloroform	5.76	83	1553867	9.305	ppbv	99
30) Cyclohexane	7.15	84	740181	10.318	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	1024513	10.417	ppbv	95
32) 1,1,1-Trichloroethane	6.53	97	1589911	9.172	ppbv	99
34) 2-Butanone	5.25	43	1422540	9.777	ppbv	99
35) Carbon Tetrachloride	7.04	117	1702307	9.219	ppbv	98
36) Benzene	6.92	78	1764447	9.942	ppbv	98
37) 1,2-Dichloroethane	6.32	62	1356293	9.410	ppbv	99
38) Trichloroethene	7.87	130	723353	10.089	ppbv	98
39) 1,2-Dichloropropane	7.64	63	728784	9.986	ppbv	99
40) 1,4-Dioxane	7.86	88	287858	9.746	ppbv #	96
41) Tetrahydrofuran	6.06	42	783119	10.492	ppbv	98
42) Bromodichloromethane	7.82	83	1695436	9.560	ppbv	98
43) Methyl Methacrylate	8.04	69	758269	10.474	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3174656	9.669	ppbv	100
45) t-1,3-Dichloropropene	9.32	75	1057107	11.335	ppbv	94
46) cis-1,3-Dichloropropene	8.74	75	1162513	10.905	ppbv	100
47) 1,1,2-Trichloroethane	9.52	97	745579	9.268	ppbv	99
48) Dibromochloromethane	10.35	129	1400395	10.041	ppbv	99
49) Bromoform	13.10	173	1201345	9.515	ppbv	100
50) 4-Methyl-2-Pentanone	8.77	43	2073296	9.816	ppbv	99
51) 2-Hexanone	10.17	43	1718951	10.082	ppbv	100
52) Tetrachloroethene	11.27	164	668101m	9.646	ppbv	
53) Toluene	9.85	91	2023492	10.377	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1125441	9.613	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.18	131	919700	8.849	ppbv	96
57) Chlorobenzene	12.20	112	1560412	8.785	ppbv	99
58) Ethyl Benzene	12.76	91	2776302	9.562	ppbv	98
59) m/p-Xylene	13.05	91	4583290m	18.052	ppbv	
60) o-Xylene	13.75	91	2309734	9.066	ppbv	99
61) Styrene	13.58	104	1671989	9.599	ppbv	99
62) Isopropylbenzene	14.73	105	2997788	8.995	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1599265	7.825	ppbv	99
64) n-propylbenzene	15.62	120	776299	9.123	ppbv	98
65) tert-Butylbenzene	16.81	119	2748166	9.128	ppbv	100
66) Benzyl Chloride	17.05	91	1301053	9.860	ppbv	100
67) sec-Butylbenzene	17.36	105	3790917	8.966	ppbv	99
69) p-Isopropyltoluene	17.72	119	3227159	9.411	ppbv	100
70) n-Butylbenzene	18.62	91	3475108	9.392	ppbv	99
71) 2-Chlorotoluene	15.52	91	2348664	9.076	ppbv	100
72) 4-Ethyltoluene	15.90	105	2636214	9.247	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2558353	9.147	ppbv	95
74) 1,2,4-Trimethylbenzene	16.83	105	2710205	9.058	ppbv	93
75) 1,3-Dichlorobenzene	17.06	146	1566783	8.743	ppbv	98
76) 1,4-Dichlorobenzene	17.21	146	1555074	9.013	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1546563m	9.183	ppbv	
78) Hexachloro-1,3-Butadiene	23.45	225	1537608	9.618	ppbv	99
79) Naphthalene	22.29	128	2780413	12.338	ppbv	98
80) Naphthalene, 2-methyl-	25.04	142	931154	14.915	ppbv #	93
81) 1,2,4-Trichlorobenzene	22.02	180	1651081	11.252	ppbv	99

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

