

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101920\
 Data File : VL035792.D
 Acq On : 19 Oct 2020 12:48
 Operator : SY/AP
 Sample : VL1019ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1019ABS01

Quant Time: Oct 20 08:18:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1182516	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	4463574	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.08	117	4713344m	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	3344384	9.47	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1763793	9.090	ppbv 100
3) Chlorodifluoromethane	2.97	51	1142264	8.979	ppbv 100
4) Chloromethane	3.12	50	609690	8.921	ppbv 99
5) Vinyl Chloride	3.23	62	707400	8.751	ppbv 100
6) Bromomethane	3.45	94	601100	8.797	ppbv 100
7) Chloroethane	3.54	64	265623	8.960	ppbv 100
8) Dichlorotetrafluoroethane	3.17	85	2031331	8.631	ppbv 99
9) Propene	2.99	41	433052	9.375	ppbv 100
10) Heptane	8.11	43	1291819	10.032	ppbv 100
11) Trichlorofluoromethane	3.93	101	2419984	8.741	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1803842	8.740	ppbv 98
13) Ethanol	3.58	45	87853	7.713	ppbv 98
14) Bromoethene	3.72	108	787478	9.059	ppbv 100
15) Acetone	3.83	43	1019459	8.012	ppbv 99
16) 1,3-Butadiene	3.30	39	451826	9.706	ppbv 98
17) tert-Butyl alcohol	4.27	59	1386824	10.006	ppbv 100
18) 1,1-Dichloroethene	4.27	96	831518	9.202	ppbv 98
19) Isopropyl Alcohol	3.94	45	648945	9.376	ppbv 98
20) Methylene Chloride	4.32	84	676766	7.241	ppbv 98
21) Allyl Chloride	4.39	41	598924	9.711	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	861702	9.027	ppbv 98
23) Vinyl Acetate	5.05	43	1532325	9.832	ppbv 100
24) 1,1-Dichloroethane	4.99	63	1506602	8.875	ppbv 99
25) Ethyl Acetate	5.66	43	2099789	9.171	ppbv 100
26) Hexane	5.67	57	1144333	9.121	ppbv 98
27) Carbon Disulfide	4.53	76	1870524	10.002	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	1978754	9.949	ppbv 100
29) Chloroform	5.74	83	2299077	9.023	ppbv 99
30) Cyclohexane	7.11	84	1243019	10.042	ppbv 99
31) cis-1,2-Dichloroethene	5.53	61	1201718	9.922	ppbv 98
32) 1,1,1-Trichloroethane	6.49	97	2257785	10.052	ppbv 99
34) 2-Butanone	5.22	43	1434214	9.715	ppbv 99
35) Carbon Tetrachloride	7.00	117	2305714	9.908	ppbv 99
36) Benzene	6.88	78	2867004	9.857	ppbv 99
37) 1,2-Dichloroethane	6.29	62	1437440	9.483	ppbv 99
38) Trichloroethene	7.82	130	1408110	9.705	ppbv 100
39) 1,2-Dichloropropane	7.60	63	1009811	9.579	ppbv 98
40) 1,4-Dioxane	7.81	88	475742	9.868	ppbv 96
41) Tetrahydrofuran	6.03	42	801908	10.782	ppbv 98
42) Bromodichloromethane	7.78	83	2422524	9.921	ppbv 100
43) Methyl Methacrylate	8.00	69	1222294	10.567	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	3964730	9.500	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1384691	11.857	ppbv	99
46) cis-1,3-Dichloropropene	8.69	75	1637090	11.372	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	1388746	9.197	ppbv	97
48) Dibromochloromethane	10.29	129	2337895	10.173	ppbv	100
49) Bromoform	13.03	173	2060180	10.565	ppbv	100
50) 4-Methyl-2-Pentanone	8.73	43	2156559	10.001	ppbv	99
51) 2-Hexanone	10.12	43	1817270	10.460	ppbv	99
52) Tetrachloroethene	11.21	164	1325517	9.477	ppbv	97
53) Toluene	9.80	91	3581370	10.442	ppbv	100
54) 1,2-Dibromoethane	10.60	107	2196494	9.715	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1823185	9.225	ppbv	95
57) Chlorobenzene	12.14	112	3018559	8.479	ppbv	98
58) Ethyl Benzene	12.71	91	4716958	9.971	ppbv	98
59) m/p-Xylene	12.99	91	8138889m	19.700	ppbv	
60) o-Xylene	13.69	91	3962646	9.482	ppbv	99
61) Styrene	13.52	104	3064143	10.604	ppbv	100
62) Isopropylbenzene	14.66	105	5951987	9.182	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.67	83	2889935	8.433	ppbv	99
64) n-propylbenzene	15.56	120	1811599	9.549	ppbv	96
65) tert-Butylbenzene	16.75	119	5498942	9.331	ppbv	100
66) Benzyl Chloride	16.99	91	2068430	11.584	ppbv	99
67) sec-Butylbenzene	17.29	105	7404508	9.098	ppbv	99
69) p-Isopropyltoluene	17.65	119	6231005	9.411	ppbv	99
70) n-Butylbenzene	18.55	91	6274995	9.203	ppbv	99
71) 2-Chlorotoluene	15.45	91	4574412	9.675	ppbv	99
72) 4-Ethyltoluene	15.84	105	4868724	9.834	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	4509616	9.639	ppbv	97
74) 1,2,4-Trimethylbenzene	16.76	105	4729152	8.967	ppbv	98
75) 1,3-Dichlorobenzene	17.00	146	3072981	8.535	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	3108332	9.031	ppbv	100
77) 1,2-Dichlorobenzene	17.82	146	3002155	8.828	ppbv	100
78) Hexachloro-1,3-Butadiene	23.38	225	1622489	8.647	ppbv	100
79) Naphthalene	22.20	128	4603133	9.151	ppbv	100
80) Naphthalene, 2-methyl-	24.98	142	1216423	10.253	ppbv	99
81) 1,2,4-Trichlorobenzene	21.93	180	2339600	8.975	ppbv	100

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

