

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041619\
 Data File : VL033591.D
 Acq On : 16 Apr 2019 14:21
 Operator : SY/AP
 Sample : K2241-14 1 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Quant Time: Apr 17 08:09:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	826766	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2060549	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2026096	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1573671	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	131633	1.092	ppbv	96
3) Chlorodifluoromethane	3.01	51	98572	1.036	ppbv	100
4) Chloromethane	3.16	50	52938m	1.051	ppbv	
5) Vinyl Chloride	3.29	62	56272	1.137	ppbv	93
6) Bromomethane	3.52	94	35702	1.123	ppbv	100
7) Chloroethane	3.60	64	20116	1.092	ppbv #	80
8) Dichlorotetrafluoroethane	3.22	85	141604	1.102	ppbv	97
9) Propene	3.04	41	41337	1.034	ppbv	95
10) Heptane	8.24	43	100179	0.938	ppbv	99
11) Trichlorofluoromethane	4.00	101	164284	1.105	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.55	101	108327	1.085	ppbv	98
13) Ethanol	3.66	45	18090m	1.749	ppbv	
14) Bromoethene	3.79	108	42746	1.074	ppbv	97
15) Acetone	3.90	43	123854	1.246	ppbv	95
16) 1,3-Butadiene	3.36	39	46541	1.180	ppbv	96
17) tert-Butyl alcohol	4.37	59	22823m	1.249	ppbv	
18) 1,1-Dichloroethene	4.35	96	48336m	1.127	ppbv	
19) Isopropyl Alcohol	4.03	45	81905	1.303	ppbv #	96
20) Methylene Chloride	4.40	84	49894	1.182	ppbv	89
21) Allyl Chloride	4.48	41	66274	1.055	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	47358	1.059	ppbv	92
23) Vinyl Acetate	5.15	43	149877	1.059	ppbv	99
24) 1,1-Dichloroethane	5.08	63	110029	1.024	ppbv	100
25) Ethyl Acetate	5.77	43	182248	0.988	ppbv	99
26) Hexane	5.78	57	84378	1.029	ppbv	97
27) Carbon Disulfide	4.62	76	99657	1.022	ppbv #	93
28) Methyl tert-Butyl Ether	5.12	73	127772	1.082	ppbv	99
29) Chloroform	5.84	83	139895	0.995	ppbv	95
30) Cyclohexane	7.24	84	60203	0.928	ppbv	92
31) cis-1,2-Dichloroethene	5.64	61	80167	0.983	ppbv	93
32) 1,1,1-Trichloroethane	6.61	97	137252	1.025	ppbv	99
34) 2-Butanone	5.33	43	117874	0.952	ppbv	99
35) Carbon Tetrachloride	7.13	117	140539	0.963	ppbv	99
36) Benzene	6.99	78	167289	0.968	ppbv	93
37) 1,2-Dichloroethane	6.40	62	107890	0.931	ppbv	98
38) Trichloroethene	7.96	130	63901	0.982	ppbv	95
39) 1,2-Dichloropropane	7.73	63	68487	1.011	ppbv	86
40) 1,4-Dioxane	7.97	88	26769m	1.108	ppbv	
41) Tetrahydrofuran	6.16	42	60338	0.886	ppbv	98
42) Bromodichloromethane	7.91	83	143138	0.907	ppbv	95
43) Methyl Methacrylate	8.13	69	59508m	0.848	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	285607	0.945	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	70507	0.818	ppbv	94
46) cis-1,3-Dichloropropene	8.83	75	82323	0.818	ppbv	97
47) 1,1,2-Trichloroethane	9.60	97	74334	0.967	ppbv	91
48) Dibromochloromethane	10.44	129	115366	0.889	ppbv	100
49) Bromoform	13.19	173	98676	0.796	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	166955	0.921	ppbv	100
51) 2-Hexanone	10.28	43	119738	0.885	ppbv #	97
52) Tetrachloroethene	11.37	164	63578m	0.975	ppbv	
53) Toluene	9.94	91	181386	0.903	ppbv	98
54) 1,2-Dibromoethane	10.75	107	109106	0.907	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.27	131	91508	0.985	ppbv #	1
57) Chlorobenzene	12.29	112	156333	0.994	ppbv	100
58) Ethyl Benzene	12.86	91	245685	0.908	ppbv	98
59) m/p-Xylene	13.15	91	441774m	1.828	ppbv	
60) o-Xylene	13.84	91	216501	0.926	ppbv	99
61) Styrene	13.68	104	138749	0.865	ppbv	99
62) Isopropylbenzene	14.82	105	306108	0.925	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	169102	0.983	ppbv	100
64) n-propylbenzene	15.72	120	77637	0.925	ppbv	95
65) tert-Butylbenzene	16.91	119	263585	0.904	ppbv	95
66) Benzyl Chloride	17.15	91	105400	0.777	ppbv	99
67) sec-Butylbenzene	17.45	105	387520	0.934	ppbv	98
69) p-Isopropyltoluene	17.81	119	292282	0.866	ppbv	98
70) n-Butylbenzene	18.71	91	304023	0.850	ppbv	99
71) 2-Chlorotoluene	15.61	91	228296	0.907	ppbv	100
72) 4-Ethyltoluene	15.99	105	227876	0.867	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	210810	0.839	ppbv	94
74) 1,2,4-Trimethylbenzene	16.92	105	231680	0.860	ppbv #	89
75) 1,3-Dichlorobenzene	17.16	146	159274m	0.956	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	148529m	0.915	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	144675m	0.916	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	98629	0.943	ppbv	99
79) Naphthalene	22.42	128	108646m	0.471	ppbv	
80) Naphthalene, 2-methyl-	25.12	142	11845	0.153	ppbv	94
81) 1,2,4-Trichlorobenzene	22.14	180	78122m	0.611	ppbv	

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

