

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033069.D
 Acq On : 4 Jan 2019 14:50
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010419

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:14 AM

Quant Time: Jan 05 01:55:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1189261	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3022286	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2909087m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2271659	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1549044	6.999	ppbv	99
3) Chlorodifluoromethane	3.01	51	1465693	10.888	ppbv	98
4) Chloromethane	3.17	50	823115	10.675	ppbv	97
5) Vinyl Chloride	3.29	62	829487	10.652	ppbv	99
6) Bromomethane	3.52	94	532739	10.070	ppbv	99
7) Chloroethane	3.60	64	310762	10.205	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	2025961	10.627	ppbv	99
9) Propene	3.04	41	629294	12.513	ppbv	99
10) Heptane	8.25	43	1418891	9.909	ppbv	99
11) Trichlorofluoromethane	4.00	101	2098243	8.579	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1342619	8.682	ppbv	99
13) Ethanol	3.65	45	179868	8.969	ppbv	95
14) Bromoethene	3.79	108	670933	9.823	ppbv	98
15) Acetone	3.90	43	1397293	8.488	ppbv	99
16) 1,3-Butadiene	3.36	39	665483	10.721	ppbv	99
17) tert-Butyl alcohol	4.35	59	378748	10.862	ppbv	99
18) 1,1-Dichloroethene	4.35	96	661698	9.289	ppbv	88
19) Isopropyl Alcohol	4.02	45	1149510	10.144	ppbv	# 98
20) Methylene Chloride	4.41	84	548322	7.990	ppbv	98
21) Allyl Chloride	4.48	41	999028	9.794	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	603970	8.554	ppbv	99
23) Vinyl Acetate	5.16	43	2010156	9.599	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1528115	8.595	ppbv	100
25) Ethyl Acetate	5.77	43	2446580	8.793	ppbv	99
26) Hexane	5.78	57	1125247	8.589	ppbv	98
27) Carbon Disulfide	4.62	76	1523724	9.430	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1941868	9.496	ppbv	100
29) Chloroform	5.85	83	1871732	8.383	ppbv	99
30) Cyclohexane	7.25	84	987929	10.113	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1197861	9.846	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1950817	8.609	ppbv	99
34) 2-Butanone	5.33	43	1551795	8.837	ppbv	100
35) Carbon Tetrachloride	7.14	117	2103626	8.103	ppbv	99
36) Benzene	7.01	78	2338801	9.447	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1454120	8.412	ppbv	99
38) Trichloroethene	7.97	130	987445	9.695	ppbv	98
39) 1,2-Dichloropropane	7.74	63	882180	9.485	ppbv	97
40) 1,4-Dioxane	7.96	88	308995	8.752	ppbv	89
41) Tetrahydrofuran	6.15	42	892365	9.984	ppbv	100
42) Bromodichloromethane	7.92	83	2089273	8.799	ppbv	100
43) Methyl Methacrylate	8.14	69	954557	10.276	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	3914628	9.337	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1350163	11.676	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1529256	11.587	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	995796	9.165	ppbv	100
48) Dibromochloromethane	10.46	129	1872365	9.753	ppbv	100
49) Bromoform	13.21	173	1574442	9.387	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2243012	10.080	ppbv	98
51) 2-Hexanone	10.27	43	1750151	10.870	ppbv #	100
52) Tetrachloroethene	11.38	164	892567	10.200	ppbv	98
53) Toluene	9.95	91	2789061	10.512	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1603890	10.245	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1312836	8.734	ppbv	98
57) Chlorobenzene	12.31	112	2196674	9.047	ppbv	96
58) Ethyl Benzene	12.87	91	3805059	10.360	ppbv	99
59) m/p-Xylene	13.16	91	6410784m	18.868	ppbv	
60) o-Xylene	13.86	91	3102003	9.326	ppbv	99
61) Styrene	13.69	104	2354418	11.093	ppbv	100
62) Isopropylbenzene	14.83	105	4445256	9.391	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2094020	8.475	ppbv	100
64) n-propylbenzene	15.73	120	1135350	9.441	ppbv	100
65) tert-Butylbenzene	16.92	119	3902460	9.307	ppbv	99
66) Benzyl Chloride	17.16	91	2407486	10.074	ppbv	100
67) sec-Butylbenzene	17.46	105	5437956	9.062	ppbv	100
69) p-Isopropyltoluene	17.82	119	4509668	9.259	ppbv	100
70) n-Butylbenzene	18.72	91	4551926	9.297	ppbv	100
71) 2-Chlorotoluene	15.62	91	3295968	9.818	ppbv	100
72) 4-Ethyltoluene	16.01	105	3642874	9.966	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3436932	9.529	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3506904	8.779	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1980071	8.421	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1949282	9.101	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1885945	8.907	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1467023	9.020	ppbv	100
79) Naphthalene	22.42	128	3481142	10.346	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1547973	15.161	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1633325	10.048	ppbv	100

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

