

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
 Data File : VL033150.D
 Acq On : 4 Feb 2019 10:01
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:26:59 AM

Quant Time: Feb 04 14:43:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 04 2019
 QLast Update : Fri Feb 01 22:01:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1204441	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3602678	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3703540m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2743474	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1456426	8.063	ppbv	97
3) Chlorodifluoromethane	3.02	51	1290348	6.661	ppbv	99
4) Chloromethane	3.17	50	740789	6.643	ppbv	96
5) Vinyl Chloride	3.29	62	712978	5.845	ppbv	98
6) Bromomethane	3.52	94	409702	7.622	ppbv	97
7) Chloroethane	3.60	64	253305	7.695	ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1542376	6.905	ppbv	99
9) Propene	3.04	41	650693	6.574	ppbv	100
10) Heptane	8.25	43	2044681	11.086	ppbv	98
11) Trichlorofluoromethane	4.00	101	1672144	8.797	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1081687	8.941	ppbv	99
13) Ethanol	3.65	45	183091m	6.538	ppbv	
14) Bromoethene	3.79	108	519005	8.481	ppbv	100
15) Acetone	3.90	43	1186074	7.768	ppbv	99
16) 1,3-Butadiene	3.36	39	606861	8.290	ppbv	99
17) tert-Butyl alcohol	4.36	59	325261	8.836	ppbv	100
18) 1,1-Dichloroethene	4.35	96	506215	8.662	ppbv	96
19) Isopropyl Alcohol	4.02	45	1062126	9.098	ppbv	96
20) Methylene Chloride	4.41	84	428127	7.248	ppbv	98
21) Allyl Chloride	4.48	41	867705	8.846	ppbv	97
22) trans-1,2-Dichloroethene	4.97	96	493327	9.059	ppbv	99
23) Vinyl Acetate	5.16	43	2346773	8.851	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1558711	8.812	ppbv	99
25) Ethyl Acetate	5.77	43	2621752	8.016	ppbv	100
26) Hexane	5.78	57	1192730	7.449	ppbv	99
27) Carbon Disulfide	4.62	76	1298443	10.043	ppbv	96
28) Methyl tert-Butyl Ether	5.11	73	2024923	8.799	ppbv	100
29) Chloroform	5.85	83	1838349	8.500	ppbv	100
30) Cyclohexane	7.25	84	1343449	10.823	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1256225	8.592	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	2264573	10.141	ppbv #	82
34) 2-Butanone	5.33	43	1838860	6.677	ppbv	99
35) Carbon Tetrachloride	7.13	117	2268348	8.391	ppbv	98
36) Benzene	7.01	78	3215837	7.959	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1693530	8.233	ppbv	100
38) Trichloroethene	7.96	130	1143896	7.032	ppbv	98
39) 1,2-Dichloropropane	7.74	63	1244530	8.405	ppbv	98
40) 1,4-Dioxane	7.96	88	447922	8.590	ppbv #	1
41) Tetrahydrofuran	6.15	42	1094848	6.617	ppbv	98
42) Bromodichloromethane	7.92	83	2549086	8.693	ppbv	99
43) Methyl Methacrylate	8.14	69	1318325	9.313	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5285832	8.109	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1738121	10.164	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	2028885	9.896	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1240595	9.186	ppbv	94
48) Dibromochloromethane	10.45	129	2054909	9.128	ppbv	100
49) Bromoform	13.20	173	1732487	9.275	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	3181381	8.894	ppbv	100
51) 2-Hexanone	10.27	43	2519545	7.907	ppbv	99
52) Tetrachloroethene	11.38	164	1022937	6.675	ppbv	98
53) Toluene	9.95	91	3619972	7.825	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1955625	7.698	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1455619	8.836	ppbv #	57
57) Chlorobenzene	12.31	112	2662382	8.169	ppbv	99
58) Ethyl Benzene	12.87	91	5035103	8.289	ppbv	100
59) m/p-Xylene	13.13	91	8068440m	16.285	ppbv	
60) o-Xylene	13.85	91	3856428	8.048	ppbv	98
61) Styrene	13.69	104	3158676	8.593	ppbv	98
62) Isopropylbenzene	14.83	105	5565304	8.169	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2694403	7.452	ppbv	99
64) n-propylbenzene	15.72	120	1512162	8.662	ppbv	97
65) tert-Butylbenzene	16.91	119	4965268	8.660	ppbv	98
66) Benzyl Chloride	17.16	91	3148378	12.259	ppbv	98
67) sec-Butylbenzene	17.46	105	7193053	8.833	ppbv	100
69) p-Isopropyltoluene	17.82	119	5918586	9.221	ppbv	99
70) n-Butylbenzene	18.72	91	6063463	9.285	ppbv	100
71) 2-Chlorotoluene	15.62	91	4557863	8.790	ppbv	98
72) 4-Ethyltoluene	16.00	105	4822632	8.978	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	4586183	9.470	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	4522281	9.481	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	2517667	8.859	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2599503	9.161	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2530160	9.231	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1084262	8.538	ppbv	100
79) Naphthalene	22.42	128	5017432m	16.042	ppbv	
80) Naphthalene, 2-methyl-	25.12	142	2437280	26.419	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	2297285	13.953	ppbv	100

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

