

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020519\
 Data File : VL033172.D
 Acq On : 6 Feb 2019 3:46
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:22:05 PM

Quant Time: Feb 20 05:53:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 05:53:13 2019
 QLast Update : Wed Feb 20 05:04:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1104792	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2589140	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2636916	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2066402	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	108537	0.514	ppbv	94
3) Chlorodifluoromethane	3.01	51	64914	0.488	ppbv	99
4) Chloromethane	3.17	50	34503	0.491	ppbv	90
5) Vinyl Chloride	3.29	62	32772	0.446	ppbv	98
6) Bromomethane	3.52	94	18714	0.464	ppbv	86
7) Chloroethane	3.60	64	11151	0.465	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	84169	0.510	ppbv	99
9) Propene	3.04	41	32645	0.508	ppbv	98
10) Heptane	8.24	43	97279	0.500	ppbv	97
11) Trichlorofluoromethane	4.01	101	82606	0.483	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	59935	0.506	ppbv	97
13) Ethanol	3.66	45	14448m	0.674	ppbv	
14) Bromoethene	3.79	108	23986	0.469	ppbv	97
15) Acetone	3.91	43	64053	0.515	ppbv	98
16) 1,3-Butadiene	3.36	39	28359	0.480	ppbv	99
17) tert-Butyl alcohol	4.38	59	12088m	0.509	ppbv	
18) 1,1-Dichloroethene	4.35	96	26357	0.497	ppbv #	87
19) Isopropyl Alcohol	4.04	45	47005	0.557	ppbv #	99
20) Methylene Chloride	4.41	84	26836	0.542	ppbv #	88
21) Allyl Chloride	4.48	41	37404	0.455	ppbv	90
22) trans-1,2-Dichloroethene	4.97	96	24398	0.474	ppbv	99
23) Vinyl Acetate	5.16	43	109431	0.507	ppbv #	98
24) 1,1-Dichloroethane	5.09	63	79548	0.521	ppbv	99
25) Ethyl Acetate	5.78	43	151980	0.543	ppbv	99
26) Hexane	5.78	57	73535	0.560	ppbv	97
27) Carbon Disulfide	4.62	76	50060	0.416	ppbv #	77
28) Methyl tert-Butyl Ether	5.12	73	89296	0.497	ppbv	98
29) Chloroform	5.85	83	105776	0.525	ppbv	99
30) Cyclohexane	7.25	84	56828	0.466	ppbv	94
31) cis-1,2-Dichloroethene	5.64	61	69916	0.532	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	95701	0.432	ppbv	94
34) 2-Butanone	5.34	43	98566	0.600	ppbv	99
35) Carbon Tetrachloride	7.14	117	92619	0.468	ppbv	97
36) Benzene	7.00	78	143752	0.548	ppbv	96
37) 1,2-Dichloroethane	6.41	62	80323	0.552	ppbv	99
38) Trichloroethene	7.96	130	54598m	0.486	ppbv	
39) 1,2-Dichloropropane	7.73	63	57526	0.555	ppbv	91
40) 1,4-Dioxane	8.00	88	21575m	0.573	ppbv	
41) Tetrahydrofuran	6.17	42	54191	0.533	ppbv	97
42) Bromodichloromethane	7.91	83	110059	0.522	ppbv #	94
43) Methyl Methacrylate	8.15	69	55458m	0.526	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	249808	0.562	ppbv	98
45) t-1,3-Dichloropropene	9.42	75	49101m	0.420	ppbv	
46) cis-1,3-Dichloropropene	8.84	75	74276	0.498	ppbv #	89
47) 1,1,2-Trichloroethane	9.62	97	61286m	0.570	ppbv	
48) Dibromochloromethane	10.45	129	81771	0.483	ppbv	98
49) Bromoform	13.20	173	68140	0.468	ppbv	100
50) 4-Methyl-2-Pentanone	8.89	43	141520m	0.537	ppbv	
51) 2-Hexanone	10.29	43	106820	0.514	ppbv #	98
52) Tetrachloroethene	11.38	164	51762m	0.513	ppbv	
53) Toluene	9.95	91	169093	0.544	ppbv	100
54) 1,2-Dibromoethane	10.76	107	90691	0.538	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.28	131	65448	0.533	ppbv #	1
57) Chlorobenzene	12.30	112	132803m	0.569	ppbv	
58) Ethyl Benzene	12.87	91	231932	0.536	ppbv	94
59) m/p-Xylene	13.15	91	394703m	1.096	ppbv	
60) o-Xylene	13.85	91	196625	0.560	ppbv	100
61) Styrene	13.69	104	136786	0.516	ppbv	97
62) Isopropylbenzene	14.83	105	272346	0.550	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	139182	0.507	ppbv	99
64) n-propylbenzene	15.72	120	67152	0.533	ppbv	91
65) tert-Butylbenzene	16.91	119	232843	0.540	ppbv	96
66) Benzyl Chloride	17.16	91	51813m	0.336	ppbv	
67) sec-Butylbenzene	17.46	105	331884	0.530	ppbv	98
69) p-Isopropyltoluene	17.82	119	279982	0.537	ppbv	98
70) n-Butylbenzene	18.72	91	298852	0.531	ppbv	97
71) 2-Chlorotoluene	15.62	91	210401m	0.540	ppbv	
72) 4-Ethyltoluene	16.00	105	211050	0.521	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	205948m	0.532	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	219739	0.547	ppbv	93
75) 1,3-Dichlorobenzene	17.17	146	128222m	0.553	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	122561	0.534	ppbv	95
77) 1,2-Dichlorobenzene	17.99	146	122888	0.537	ppbv	98
78) Hexachloro-1,3-Butadiene	23.55	225	61269	0.538	ppbv	98
79) Naphthalene	22.42	128	224760	0.521	ppbv #	93
80) Naphthalene,2-methyl-	25.12	142	110407	0.506	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	121808	0.555	ppbv	98

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

