

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033275.D
 Acq On : 12 Mar 2019 4:15
 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
 3/14/2019 5:05:42 AM

Quant Time: Mar 12 07:01:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 07:01:13 2019
 QLast Update : Tue Mar 12 04:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	926308	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2145350	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2134827	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1671396	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	103400	0.538	ppbv	90
3) Chlorodifluoromethane	3.02	51	60564	0.519	ppbv	95
4) Chloromethane	3.17	50	29360	0.478	ppbv	93
5) Vinyl Chloride	3.29	62	29472	0.496	ppbv	91
6) Bromomethane	3.52	94	18552	0.493	ppbv	89
7) Chloroethane	3.60	64	10495	0.478	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	77408	0.509	ppbv	97
9) Propene	3.04	41	24610	0.474	ppbv	98
10) Heptane	8.25	43	62788	0.510	ppbv	97
11) Trichlorofluoromethane	4.01	101	82488	0.513	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	56090	0.555	ppbv	99
13) Ethanol	3.66	45	11506m	0.795	ppbv	
14) Bromoethene	3.79	108	22295m	0.535	ppbv	
15) Acetone	3.92	43	66888	0.580	ppbv	100
16) 1,3-Butadiene	3.36	39	22681	0.456	ppbv	99
17) tert-Butyl alcohol	4.38	59	9890	0.546	ppbv	99
18) 1,1-Dichloroethene	4.35	96	24357	0.550	ppbv	90
19) Isopropyl Alcohol	4.04	45	39800	0.575	ppbv #	95
20) Methylene Chloride	4.41	84	27333	0.600	ppbv	95
21) Allyl Chloride	4.48	41	33750	0.506	ppbv	91
22) trans-1,2-Dichloroethene	4.97	96	23475	0.497	ppbv	96
23) Vinyl Acetate	5.16	43	81665	0.511	ppbv #	93
24) 1,1-Dichloroethane	5.09	63	65873	0.543	ppbv	96
25) Ethyl Acetate	5.78	43	114535	0.543	ppbv	99
26) Hexane	5.78	57	53650	0.539	ppbv	94
27) Carbon Disulfide	4.62	76	49939	0.496	ppbv	98
28) Methyl tert-Butyl Ether	5.13	73	69409	0.529	ppbv	99
29) Chloroform	5.84	83	79481	0.525	ppbv	89
30) Cyclohexane	7.25	84	37536	0.502	ppbv	86
31) cis-1,2-Dichloroethene	5.64	61	46935	0.499	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	73443	0.515	ppbv	96
34) 2-Butanone	5.34	43	72362	0.544	ppbv	99
35) Carbon Tetrachloride	7.14	117	72638	0.494	ppbv	91
36) Benzene	7.00	78	96822	0.511	ppbv	98
37) 1,2-Dichloroethane	6.41	62	62278	0.514	ppbv	98
38) Trichloroethene	7.96	130	36632	0.511	ppbv	88
39) 1,2-Dichloropropane	7.73	63	37599	0.518	ppbv	95
40) 1,4-Dioxane	8.00	88	14142m	0.532	ppbv	
41) Tetrahydrofuran	6.17	42	33770	0.449	ppbv	96
42) Bromodichloromethane	7.91	83	80122m	0.496	ppbv	
43) Methyl Methacrylate	8.14	69	34690	0.468	ppbv	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	171618	0.525	ppbv	97
45) t-1,3-Dichloropropene	9.42	75	36834m	0.410	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	46127	0.436	ppbv #	88
47) 1,1,2-Trichloroethane	9.61	97	40899	0.525	ppbv	88
48) Dibromochloromethane	10.45	129	58695	0.460	ppbv	98
49) Bromoform	13.20	173	43309m	0.378	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	97563m	0.498	ppbv	
51) 2-Hexanone	10.29	43	67064	0.459	ppbv #	98
52) Tetrachloroethene	11.37	164	37332m	0.539	ppbv	
53) Toluene	9.94	91	99674	0.470	ppbv	100
54) 1,2-Dibromoethane	10.76	107	57625	0.472	ppbv	85
56) 1,1,1,2-Tetrachloroethane	12.28	131	45338	0.508	ppbv #	1
57) Chlorobenzene	12.30	112	86792	0.553	ppbv #	88
58) Ethyl Benzene	12.86	91	143409m	0.495	ppbv	
59) m/p-Xylene	13.15	91	248270m	0.948	ppbv	
60) o-Xylene	13.85	91	122545	0.485	ppbv	97
61) Styrene	13.68	104	72954m	0.423	ppbv	
62) Isopropylbenzene	14.82	105	167687	0.497	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	80907	0.497	ppbv	96
64) n-propylbenzene	15.72	120	38918m	0.471	ppbv	
65) tert-Butylbenzene	16.91	119	136551	0.481	ppbv	99
66) Benzyl Chloride	17.16	91	36422m	0.344	ppbv	
67) sec-Butylbenzene	17.46	105	191657	0.476	ppbv	99
69) p-Isopropyltoluene	17.81	119	145995	0.446	ppbv	97
70) n-Butylbenzene	18.72	91	158537	0.447	ppbv	98
71) 2-Chlorotoluene	15.62	91	122696	0.487	ppbv	98
72) 4-Ethyltoluene	16.00	105	119140	0.454	ppbv	97
73) 1,3,5-Trimethylbenzene	16.16	105	112984m	0.452	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	119279	0.457	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	73832	0.480	ppbv	94
76) 1,4-Dichlorobenzene	17.30	146	71615	0.474	ppbv	94
77) 1,2-Dichlorobenzene	17.99	146	71008	0.478	ppbv	96
78) Hexachloro-1,3-Butadiene	23.55	225	59153m	0.525	ppbv	
79) Naphthalene	22.43	128	74310m	0.261	ppbv	
80) Naphthalene,2-methyl-	25.13	142	1440m	0.021	ppbv	
81) 1,2,4-Trichlorobenzene	22.14	180	51715m	0.351	ppbv	

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

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