

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034847.D
 Acq On : 9 Mar 2020 16:09
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:26:08 PM

Quant Time: Mar 09 16:41:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:41:39 2020
 QLast Update : Mon Mar 09 15:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	923566	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2138419	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2290762	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1741401	9.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1243332	8.249	ppbv	97
3) Chlorodifluoromethane	2.94	51	1390153	13.212	ppbv	99
4) Chloromethane	3.10	50	813786	14.359	ppbv	98
5) Vinyl Chloride	3.22	62	776893	12.976	ppbv	92
6) Bromomethane	3.44	94	449231	13.747	ppbv	98
7) Chloroethane	3.52	64	288242	13.923	ppbv	94
8) Dichlorotetrafluoroethane	3.15	85	1648298	12.589	ppbv	99
9) Propene	2.97	41	673057	16.251	ppbv	99
10) Heptane	8.13	43	1747239	16.600	ppbv	100
11) Trichlorofluoromethane	3.92	101	1752926	12.997	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1243795	13.366	ppbv	99
13) Ethanol	3.57	45	190471	13.423	ppbv	92
14) Bromoethene	3.71	108	563140	14.748	ppbv	99
15) Acetone	3.82	43	1436289	12.987	ppbv	99
16) 1,3-Butadiene	3.29	39	755614	15.100	ppbv	98
17) tert-Butyl alcohol	4.27	59	1653446	18.960	ppbv	100
18) 1,1-Dichloroethene	4.26	96	565434	13.778	ppbv	99
19) Isopropyl Alcohol	3.94	45	1096673	16.550	ppbv	# 39
20) Methylene Chloride	4.32	84	495857	12.562	ppbv	91
21) Allyl Chloride	4.39	41	1066997	15.235	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	578829	14.448	ppbv	97
23) Vinyl Acetate	5.06	43	2465690	16.626	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1596991	13.874	ppbv	100
25) Ethyl Acetate	5.66	43	2852694	14.926	ppbv	100
26) Hexane	5.67	57	1259940	15.091	ppbv	99
27) Carbon Disulfide	4.53	76	1515403	15.537	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	2097384	16.878	ppbv	98
29) Chloroform	5.75	83	1878482	13.366	ppbv	99
30) Cyclohexane	7.13	84	1095800	17.155	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1306589	15.258	ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	1889084	13.602	ppbv	98
34) 2-Butanone	5.23	43	1952324	14.033	ppbv	99
35) Carbon Tetrachloride	7.02	117	1945079	12.054	ppbv	97
36) Benzene	6.90	78	2576782	14.102	ppbv	98
37) 1,2-Dichloroethane	6.31	62	1484210	11.891	ppbv	100
38) Trichloroethene	7.84	130	991759	13.926	ppbv	97
39) 1,2-Dichloropropane	7.62	63	1036779	14.059	ppbv	98
40) 1,4-Dioxane	7.84	88	366787	14.381	ppbv	# 96
41) Tetrahydrofuran	6.04	42	1132698	15.957	ppbv	99
42) Bromodichloromethane	7.80	83	2051266	12.989	ppbv	99
43) Methyl Methacrylate	8.02	69	1176187	15.190	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4299434	13.464	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	1460206	17.963	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1656887	16.692	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	1072749	13.779	ppbv	98
48) Dibromochloromethane	10.33	129	1829159	15.025	ppbv	99
49) Bromoform	13.08	173	1675810	15.775	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2886040	14.478	ppbv	100
51) 2-Hexanone	10.15	43	2430544	15.544	ppbv #	100
52) Tetrachloroethene	11.25	164	960831	14.232	ppbv	94
53) Toluene	9.83	91	3043738	15.738	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1644548	14.285	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1359264	13.392	ppbv	96
57) Chlorobenzene	12.18	112	2264646	12.942	ppbv	99
58) Ethyl Benzene	12.74	91	4042558	14.320	ppbv	99
59) m/p-Xylene	13.03	91	6589466m	26.965	ppbv	
60) o-Xylene	13.73	91	3185599	12.884	ppbv	99
61) Styrene	13.56	104	2511123	16.371	ppbv	99
62) Isopropylbenzene	14.71	105	4851154	13.331	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.72	83	2229396	11.438	ppbv	99
64) n-propylbenzene	15.60	120	1339018	14.675	ppbv	93
65) tert-Butylbenzene	16.79	119	4223866	13.735	ppbv	99
66) Benzyl Chloride	17.04	91	2071483	20.835	ppbv	100
67) sec-Butylbenzene	17.34	105	5938376	13.252	ppbv	99
69) p-Isopropyltoluene	17.70	119	5095890	14.052	ppbv	99
70) n-Butylbenzene	18.59	91	5200582	13.115	ppbv	98
71) 2-Chlorotoluene	15.49	91	3761605	13.686	ppbv	99
72) 4-Ethyltoluene	15.88	105	3984727	14.475	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	3732209	14.134	ppbv	100
74) 1,2,4-Trimethylbenzene	16.81	105	3745572	13.048	ppbv	96
75) 1,3-Dichlorobenzene	17.04	146	2230645	13.127	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	2284950	14.052	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	2206709	13.575	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	1938070	14.286	ppbv	100
79) Naphthalene	22.26	128	4003264	18.557	ppbv	97
80) Naphthalene, 2-methyl-	25.01	142	1823982	35.401	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	2295420	16.832	ppbv	100

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

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