

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120320\
 Data File : VL036049.D
 Acq On : 3 Dec 2020 11:42
 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
 12/7/2020 12:08:20 PM

Quant Time: Dec 04 03:46:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Dec 07
 QLast Update : Thu Dec 03 12:00:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1178107	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4132854	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3796657	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2934208	10.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.03	85	129782	0.585 ppbv	99
3) Chlorodifluoromethane	2.97	51	74945	0.531 ppbv	97
4) Chloromethane	3.12	50	36687	0.535 ppbv	91
5) Vinyl Chloride	3.25	62	40374	0.462 ppbv	94
6) Bromomethane	3.46	94	35631	0.507 ppbv	86
7) Chloroethane	3.55	64	16247m	0.528 ppbv	
8) Dichlorotetrafluoroethane	3.17	85	126710	0.499 ppbv	96
9) Propene	3.00	41	23954	0.464 ppbv	97
10) Heptane	8.10	43	52662	0.369 ppbv	95
11) Trichlorofluoromethane	3.93	101	149769	0.538 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	110758	0.534 ppbv	97
13) Ethanol	3.60	45	6219m	0.555 ppbv	
14) Bromoethene	3.73	108	42609m	0.446 ppbv	
15) Acetone	3.85	43	59598	0.473 ppbv #	67
16) 1,3-Butadiene	3.31	39	26802m	0.494 ppbv	
17) tert-Butyl alcohol	4.30	59	81751m	0.490 ppbv	
18) 1,1-Dichloroethene	4.27	96	48370m	0.508 ppbv	
19) Isopropyl Alcohol	3.96	45	42094m	0.544 ppbv	
20) Methylene Chloride	4.33	84	71561	0.807 ppbv	98
21) Allyl Chloride	4.40	41	33698m	0.495 ppbv	
22) trans-1,2-Dichloroethene	4.87	96	46158	0.478 ppbv	97
23) Vinyl Acetate	5.06	43	73863m	0.418 ppbv	
24) 1,1-Dichloroethane	4.99	63	86787	0.516 ppbv	95
25) Ethyl Acetate	5.67	43	122696	0.494 ppbv	98
26) Hexane	5.67	57	62129	0.454 ppbv	87
27) Carbon Disulfide	4.53	76	84427	0.412 ppbv #	93
28) Methyl tert-Butyl Ether	5.03	73	88496	0.360 ppbv	98
29) Chloroform	5.73	83	126959	0.472 ppbv	97
30) Cyclohexane	7.12	84	62081m	0.417 ppbv	
31) cis-1,2-Dichloroethene	5.54	61	53698m	0.381 ppbv	
32) 1,1,1-Trichloroethane	6.49	97	108289m	0.386 ppbv	
34) 2-Butanone	5.24	43	70462m	0.525 ppbv	
35) Carbon Tetrachloride	7.00	117	103625m	0.469 ppbv	
36) Benzene	6.88	78	124264	0.404 ppbv	98
37) 1,2-Dichloroethane	6.29	62	72626	0.522 ppbv	99
38) Trichloroethene	7.82	130	56131m	0.374 ppbv	
39) 1,2-Dichloropropane	7.60	63	53910m	0.521 ppbv	
40) 1,4-Dioxane	7.87	88	19411m	0.396 ppbv	
41) Tetrahydrofuran	6.07	42	28705m	0.377 ppbv	
42) Bromodichloromethane	7.78	83	104017	0.443 ppbv	89
43) Methyl Methacrylate	8.01	69	34711	0.296 ppbv	90

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 0
 QLast Update : Thu Dec 03 12:00:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	182809	0.450	ppbv	# 92
45) t-1,3-Dichloropropene	9.26	75	32267m	0.260	ppbv	
46) cis-1,3-Dichloropropene	8.69	75	46393m	0.295	ppbv	
47) 1,1,2-Trichloroethane	9.46	97	64727	0.459	ppbv	87
48) Dibromochloromethane	10.29	129	76539	0.355	ppbv	98
49) Bromoform	13.02	173	52575m	0.289	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	86235m	0.420	ppbv	
51) 2-Hexanone	10.15	43	53434m	0.324	ppbv	
52) Tetrachloroethene	11.21	164	48520	0.333	ppbv	93
53) Toluene	9.79	91	106397	0.287	ppbv	97
54) 1,2-Dibromoethane	10.60	107	86358	0.403	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.11	131	74583	0.438	ppbv	# 1
57) Chlorobenzene	12.13	112	146126	0.484	ppbv	94
58) Ethyl Benzene	12.70	91	136943	0.296	ppbv	99
59) m/p-Xylene	12.99	91	275652m	0.705	ppbv	
60) o-Xylene	13.68	91	147423	0.387	ppbv	100
61) Styrene	13.52	104	56408m	0.202	ppbv	
62) Isopropylbenzene	14.66	105	229423	0.384	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.66	83	149415m	0.507	ppbv	
64) n-propylbenzene	15.55	120	51089	0.295	ppbv	# 55
65) tert-Butylbenzene	16.74	119	167170	0.307	ppbv	94
66) Benzyl Chloride	16.98	91	36972m	0.205	ppbv	
67) sec-Butylbenzene	17.29	105	230847	0.315	ppbv	96
69) p-Isopropyltoluene	17.65	119	158068	0.261	ppbv	97
70) n-Butylbenzene	18.55	91	154604	0.265	ppbv	93
71) 2-Chlorotoluene	15.45	91	138049	0.316	ppbv	98
72) 4-Ethyltoluene	15.82	105	123763	0.268	ppbv	# 97
73) 1,3,5-Trimethylbenzene	15.99	105	127391m	0.302	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	149885	0.331	ppbv	# 91
75) 1,3-Dichlorobenzene	16.99	146	106861m	0.371	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	100296m	0.361	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	96882m	0.345	ppbv	
78) Hexachloro-1,3-Butadiene	23.37	225	53624	0.409	ppbv	96
79) Naphthalene	22.21	128	42747m	0.135	ppbv	
80) Naphthalene, 2-methyl-	25.02	142	3551m	0.069	ppbv	
81) 1,2,4-Trichlorobenzene	21.93	180	41321m	0.234	ppbv	

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

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