

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032517.D
 Acq On : 24 Sep 2018 18:24
 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

apatel
 9/26/2018 4:47:12 PM

Quant Time: Sep 25 05:22:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 24 2018
 QLast Update : Mon Sep 24 18:32:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1572582	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3589155	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3469883	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2698444	10.47	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.09	85	104726	0.521 ppbv	97
3) Chlorodifluoromethane	3.03	51	71165	0.500 ppbv	99
4) Chloromethane	3.19	50	40889	0.474 ppbv	97
5) Vinyl Chloride	3.31	62	37084	0.436 ppbv	92
6) Bromomethane	3.53	94	21788	0.488 ppbv	91
7) Chloroethane	3.62	64	15230	0.517 ppbv	98
8) Dichlorotetrafluoroethane	3.24	85	90210	0.505 ppbv	98
9) Propene	3.05	41	27598	0.481 ppbv	99
10) Heptane	8.28	43	88584m	0.430 ppbv	
11) Trichlorofluoromethane	4.02	101	99972	0.551 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.58	101	78514	0.639 ppbv	97
13) Ethanol	3.68	45	11484m	0.642 ppbv	
14) Bromoethene	3.81	108	25838	0.496 ppbv	97
15) Acetone	3.93	43	80791	0.570 ppbv	97
16) 1,3-Butadiene	3.38	39	29956	0.450 ppbv	93
17) tert-Butyl alcohol	4.41	59	10923m	0.501 ppbv	
18) 1,1-Dichloroethene	4.37	96	35217	0.627 ppbv	87
19) Isopropyl Alcohol	4.07	45	50690	0.546 ppbv	# 92
20) Methylene Chloride	4.43	84	40708	0.754 ppbv	97
21) Allyl Chloride	4.50	41	57565	0.612 ppbv	98
22) trans-1,2-Dichloroethene	4.98	96	31701	0.520 ppbv	92
23) Vinyl Acetate	5.18	43	100528	0.428 ppbv	# 92
24) 1,1-Dichloroethane	5.11	63	109437	0.566 ppbv	99
25) Ethyl Acetate	5.80	43	168654	0.504 ppbv	98
26) Hexane	5.80	57	73706	0.492 ppbv	89
27) Carbon Disulfide	4.65	76	80608	0.583 ppbv	# 80
28) Methyl tert-Butyl Ether	5.15	73	80267	0.437 ppbv	99
29) Chloroform	5.87	83	128395	0.562 ppbv	98
30) Cyclohexane	7.28	84	50613	0.462 ppbv	# 80
31) cis-1,2-Dichloroethene	5.66	61	62175	0.459 ppbv	95
32) 1,1,1-Trichloroethane	6.65	97	121059	0.569 ppbv	98
34) 2-Butanone	5.37	43	101355	0.425 ppbv	98
35) Carbon Tetrachloride	7.16	117	121768	0.505 ppbv	93
36) Benzene	7.03	78	132165	0.433 ppbv	96
37) 1,2-Dichloroethane	6.44	62	87158	0.466 ppbv	97
38) Trichloroethene	7.99	130	52426m	0.452 ppbv	
39) 1,2-Dichloropropane	7.77	63	62010m	0.475 ppbv	
40) 1,4-Dioxane	8.03	88	18942m	0.483 ppbv	
41) Tetrahydrofuran	6.20	42	46988m	0.362 ppbv	
42) Bromodichloromethane	7.94	83	130896	0.507 ppbv	99
43) Methyl Methacrylate	8.17	69	48232	0.372 ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.02	57	252038	0.427	ppbv	94
45) t-1,3-Dichloropropene	9.45	75	55593	0.401	ppbv #	83
46) cis-1,3-Dichloropropene	8.87	75	65328	0.369	ppbv	94
47) 1,1,2-Trichloroethane	9.64	97	73310m	0.528	ppbv	
48) Dibromochloromethane	10.48	129	107822	0.560	ppbv	99
49) Bromoform	13.23	173	81325m	0.486	ppbv	
50) 4-Methyl-2-Pentanone	8.92	43	145092	0.404	ppbv	97
51) 2-Hexanone	10.33	43	98336	0.425	ppbv #	93
52) Tetrachloroethene	11.41	164	44678	0.472	ppbv	93
53) Toluene	9.98	91	133585	0.418	ppbv	97
54) 1,2-Dibromoethane	10.79	107	93580	0.502	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.31	131	86732m	0.554	ppbv	
57) Chlorobenzene	12.34	112	154372	0.557	ppbv #	94
58) Ethyl Benzene	12.90	91	166336	0.401	ppbv	95
59) m/p-Xylene	13.18	91	343457m	0.928	ppbv	
60) o-Xylene	13.88	91	160040	0.440	ppbv	99
61) Styrene	13.72	104	80616	0.342	ppbv	97
62) Isopropylbenzene	14.86	105	238071	0.466	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.87	83	171936	0.529	ppbv	99
64) n-propylbenzene	15.76	120	58499m	0.438	ppbv	
65) tert-Butylbenzene	16.94	119	202539	0.460	ppbv	98
66) Benzyl Chloride	17.19	91	105348	0.429	ppbv	94
67) sec-Butylbenzene	17.49	105	300928	0.454	ppbv	99
69) p-Isopropyltoluene	17.85	119	220583	0.430	ppbv	97
70) n-Butylbenzene	18.75	91	234857	0.404	ppbv	99
71) 2-Chlorotoluene	15.65	91	166781	0.427	ppbv	99
72) 4-Ethyltoluene	16.03	105	157857	0.398	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.19	105	158460	0.398	ppbv	98
74) 1,2,4-Trimethylbenzene	16.96	105	197373	0.454	ppbv #	87
75) 1,3-Dichlorobenzene	17.19	146	143717m	0.557	ppbv	
76) 1,4-Dichlorobenzene	17.34	146	114645	0.479	ppbv	98
77) 1,2-Dichlorobenzene	18.02	146	122571	0.492	ppbv	98
78) Hexachloro-1,3-Butadiene	23.57	225	52387m	0.563	ppbv	
79) Naphthalene	22.46	128	91673m	0.259	ppbv	
80) Naphthalene, 2-methyl-	25.15	142	7517	0.080	ppbv	93
81) 1,2,4-Trichlorobenzene	22.18	180	57403m	0.322	ppbv	

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

