

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032656.D
 Acq On : 18 Oct 2018 18:02
 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
 10/24/2018 12:04:35 PM

Quant Time: Oct 19 01:23:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 11:41:40 2018
 QLast Update : Thu Oct 18 11:41:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1711194	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4097222	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3926748	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2957475	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	124367	0.737 ppbv	97
3) Chlorodifluoromethane	3.03	51	71012	0.496 ppbv	99
4) Chloromethane	3.18	50	39019	0.499 ppbv	92
5) Vinyl Chloride	3.31	62	38508	0.489 ppbv	95
6) Bromomethane	3.53	94	25622	0.515 ppbv	91
7) Chloroethane	3.61	64	14265	0.463 ppbv	89
8) Dichlorotetrafluoroethane	3.23	85	99555	0.516 ppbv	92
9) Propene	3.05	41	27096	0.516 ppbv	94
10) Heptane	8.26	43	96635m	0.492 ppbv	
11) Trichlorofluoromethane	4.02	101	127990	0.582 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	94890	0.590 ppbv	96
13) Ethanol	3.68	45	8505m	0.524 ppbv	
14) Bromoethene	3.80	108	33652	0.571 ppbv	97
15) Acetone	3.93	43	90477	0.594 ppbv	98
16) 1,3-Butadiene	3.38	39	29178	0.517 ppbv	83
17) tert-Butyl alcohol	4.40	59	17722m	1.275 ppbv	
18) 1,1-Dichloroethene	4.37	96	40913	0.564 ppbv	98
19) Isopropyl Alcohol	4.06	45	58451	0.544 ppbv #	93
20) Methylene Chloride	4.42	84	41873	0.614 ppbv	90
21) Allyl Chloride	4.49	41	59024	0.516 ppbv	97
22) trans-1,2-Dichloroethene	4.98	96	45559	0.543 ppbv	87
23) Vinyl Acetate	5.17	43	124489	0.514 ppbv #	95
24) 1,1-Dichloroethane	5.10	63	112057	0.499 ppbv	99
25) Ethyl Acetate	5.79	43	191892	0.533 ppbv	99
26) Hexane	5.80	57	88444	0.545 ppbv	95
27) Carbon Disulfide	4.64	76	99349	0.507 ppbv #	88
28) Methyl tert-Butyl Ether	5.14	73	104718	0.513 ppbv	100
29) Chloroform	5.86	83	140880	0.495 ppbv	97
30) Cyclohexane	7.26	84	59733	0.467 ppbv	93
31) cis-1,2-Dichloroethene	5.65	61	68959	0.442 ppbv	92
32) 1,1,1-Trichloroethane	6.63	97	142075	0.501 ppbv	98
34) 2-Butanone	5.36	43	104455	0.459 ppbv	99
35) Carbon Tetrachloride	7.15	117	144207	0.454 ppbv	97
36) Benzene	7.02	78	161716	0.487 ppbv	97
37) 1,2-Dichloroethane	6.43	62	105465	0.463 ppbv	99
38) Trichloroethene	7.98	130	63273	0.507 ppbv	94
39) 1,2-Dichloropropane	7.76	63	65709m	0.486 ppbv	
40) 1,4-Dioxane	8.02	88	21258m	0.455 ppbv	
41) Tetrahydrofuran	6.19	42	53874	0.447 ppbv	94
42) Bromodichloromethane	7.93	83	149736	0.482 ppbv	94
43) Methyl Methacrylate	8.16	69	51397	0.399 ppbv	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	270645	0.460	ppbv	93
45) t-1,3-Dichloropropene	9.43	75	58614	0.348	ppbv	93
46) cis-1,3-Dichloropropene	8.85	75	75708m	0.395	ppbv	
47) 1,1,2-Trichloroethane	9.63	97	78001	0.483	ppbv	91
48) Dibromochloromethane	10.46	129	120504	0.439	ppbv	97
49) Bromoform	13.22	173	94030m	0.454	ppbv	
50) 4-Methyl-2-Pentanone	8.91	43	151309	0.452	ppbv	96
51) 2-Hexanone	10.32	43	88800m	0.337	ppbv	
52) Tetrachloroethene	11.40	164	59168m	0.541	ppbv	
53) Toluene	9.97	91	153636m	0.406	ppbv	
54) 1,2-Dibromoethane	10.78	107	95233m	0.412	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.30	131	93535	0.519	ppbv #	1
57) Chlorobenzene	12.32	112	155576	0.521	ppbv	93
58) Ethyl Benzene	12.88	91	189980m	0.431	ppbv	
59) m/p-Xylene	13.17	91	377368m	0.959	ppbv	
60) o-Xylene	13.86	91	182108	0.464	ppbv	99
61) Styrene	13.70	104	92178m	0.388	ppbv	
62) Isopropylbenzene	14.85	105	272752	0.488	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.86	83	161707	0.467	ppbv	99
64) n-propylbenzene	15.74	120	61824	0.437	ppbv	83
65) tert-Butylbenzene	16.93	119	215938	0.455	ppbv	98
66) Benzyl Chloride	17.17	91	97171	0.363	ppbv #	94
67) sec-Butylbenzene	17.47	105	314977m	0.441	ppbv	
69) p-Isopropyltoluene	17.83	119	229823	0.425	ppbv	98
70) n-Butylbenzene	18.74	91	234276	0.394	ppbv	97
71) 2-Chlorotoluene	15.64	91	170637	0.413	ppbv	99
72) 4-Ethyltoluene	16.02	105	169436	0.400	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.18	105	181253	0.430	ppbv	95
74) 1,2,4-Trimethylbenzene	16.94	105	205283	0.442	ppbv #	89
75) 1,3-Dichlorobenzene	17.18	146	126813	0.470	ppbv	96
76) 1,4-Dichlorobenzene	17.33	146	106485	0.433	ppbv	97
77) 1,2-Dichlorobenzene	18.00	146	116412	0.449	ppbv	97
78) Hexachloro-1,3-Butadiene	23.56	225	62110m	0.428	ppbv	
79) Naphthalene	22.44	128	86416m	0.274	ppbv	
80) Naphthalene, 2-methyl-	25.14	142	8370	0.136	ppbv	92
81) 1,2,4-Trichlorobenzene	22.16	180	51213m	0.327	ppbv	

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

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