

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012819\
 Data File : VL033122.D
 Acq On : 28 Jan 2019 21:51
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

apatel
 1/29/2019 2:36:36 PM

Quant Time: Jan 28 22:43:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 2019
 QLast Update : Mon Jan 28 16:32:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1204122	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3176946	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2956177	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2033296	8.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	312781	1.396	ppbv	98
3) Chlorodifluoromethane	3.01	51	173098	1.270	ppbv	99
4) Chloromethane	3.17	50	94538	1.211	ppbv	93
5) Vinyl Chloride	3.29	62	97022	1.231	ppbv	93
6) Bromomethane	3.51	94	63924	1.193	ppbv	98
7) Chloroethane	3.60	64	36057	1.169	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	250180	1.296	ppbv	98
9) Propene	3.04	41	66377	1.304	ppbv	97
10) Heptane	8.25	43	158232	1.091	ppbv	96
11) Trichlorofluoromethane	4.00	101	265675	1.073	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	187554	1.198	ppbv	97
13) Ethanol	3.65	45	27492m	1.354	ppbv	
14) Bromoethene	3.79	108	77038	1.114	ppbv	98
15) Acetone	3.90	43	178385	1.070	ppbv	95
16) 1,3-Butadiene	3.36	39	68607	1.092	ppbv	97
17) tert-Butyl alcohol	4.37	59	40565m	1.149	ppbv	
18) 1,1-Dichloroethene	4.35	96	81126	1.125	ppbv	96
19) Isopropyl Alcohol	4.03	45	121859	1.062	ppbv #	96
20) Methylene Chloride	4.41	84	80719	1.162	ppbv	99
21) Allyl Chloride	4.48	41	119683	1.159	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	81926	1.146	ppbv	93
23) Vinyl Acetate	5.16	43	240793	1.136	ppbv #	96
24) 1,1-Dichloroethane	5.09	63	200835	1.116	ppbv	98
25) Ethyl Acetate	5.77	43	314532	1.116	ppbv	99
26) Hexane	5.78	57	158811	1.197	ppbv	96
27) Carbon Disulfide	4.62	76	191964	1.173	ppbv #	93
28) Methyl tert-Butyl Ether	5.12	73	235998	1.140	ppbv	99
29) Chloroform	5.84	83	251882	1.114	ppbv	96
30) Cyclohexane	7.24	84	110335	1.116	ppbv #	70
31) cis-1,2-Dichloroethene	5.64	61	136200	1.106	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	257113	1.121	ppbv	98
34) 2-Butanone	5.34	43	191008	1.035	ppbv	99
35) Carbon Tetrachloride	7.13	117	277156	1.016	ppbv	92
36) Benzene	7.00	78	283836	1.091	ppbv	96
37) 1,2-Dichloroethane	6.41	62	186519	1.027	ppbv	99
38) Trichloroethene	7.96	130	115720m	1.081	ppbv	
39) 1,2-Dichloropropane	7.73	63	105362	1.078	ppbv	90
40) 1,4-Dioxane	7.98	88	38659m	1.042	ppbv	
41) Tetrahydrofuran	6.17	42	99637	1.061	ppbv	98
42) Bromodichloromethane	7.91	83	254021	1.018	ppbv	99
43) Methyl Methacrylate	8.14	69	100469	1.029	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	476376	1.081	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	107348	0.883	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	136373	0.983	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	121968	1.068	ppbv	98
48) Dibromochloromethane	10.45	129	209421	1.038	ppbv	100
49) Bromoform	13.19	173	156660	0.889	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	247950	1.060	ppbv	100
51) 2-Hexanone	10.29	43	169465m	1.001	ppbv	
52) Tetrachloroethene	11.37	164	101515	1.104	ppbv	93
53) Toluene	9.95	91	293887	1.054	ppbv	97
54) 1,2-Dibromoethane	10.75	107	171093	1.040	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.28	131	161604	1.058	ppbv #	1
57) Chlorobenzene	12.30	112	263178	1.067	ppbv	97
58) Ethyl Benzene	12.86	91	352792	0.945	ppbv	97
59) m/p-Xylene	13.14	91	669429m	1.939	ppbv	
60) o-Xylene	13.85	91	356778	1.056	ppbv	98
61) Styrene	13.68	104	213568	0.990	ppbv	99
62) Isopropylbenzene	14.83	105	469951	0.977	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	268639	1.070	ppbv	100
64) n-propylbenzene	15.71	120	114241	0.935	ppbv	88
65) tert-Butylbenzene	16.91	119	399462	0.938	ppbv	94
66) Benzyl Chloride	17.16	91	206852	0.852	ppbv	97
67) sec-Butylbenzene	17.46	105	590191	0.968	ppbv	98
69) p-Isopropyltoluene	17.82	119	456076m	0.922	ppbv	
70) n-Butylbenzene	18.72	91	436540	0.877	ppbv	97
71) 2-Chlorotoluene	15.61	91	309842	0.908	ppbv	97
72) 4-Ethyltoluene	16.00	105	341679	0.920	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	335324	0.915	ppbv	91
74) 1,2,4-Trimethylbenzene	16.92	105	368948	0.909	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	222957m	0.933	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	191093	0.878	ppbv	98
77) 1,2-Dichlorobenzene	17.98	146	211377	0.982	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	167743	1.015	ppbv	99
79) Naphthalene	22.42	128	164375	0.481	ppbv #	94
80) Naphthalene, 2-methyl-	25.11	142	18405	0.177	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	90191m	0.546	ppbv	

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

