

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033702.D
 Acq On : 17 May 2019 3:18
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:05:03 PM

Quant Time: May 17 07:58:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1131261	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2687465	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2665915	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2139470	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.08	85	254233	0.983	ppbv	100
3) Chlorodifluoromethane	3.01	51	134767m	0.830	ppbv	
4) Chloromethane	3.17	50	75746	0.897	ppbv	97
5) Vinyl Chloride	3.29	62	74387	0.905	ppbv	95
6) Bromomethane	3.52	94	45383	0.867	ppbv	99
7) Chloroethane	3.60	64	26372	0.881	ppbv	91
8) Dichlorotetrafluoroethane	3.22	85	195736	0.904	ppbv	99
9) Propene	3.03	41	54338	0.875	ppbv	95
10) Heptane	8.24	43	149533	0.971	ppbv	98
11) Trichlorofluoromethane	4.00	101	224137	0.900	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	152449	0.908	ppbv	98
13) Ethanol	3.66	45	20913	1.105	ppbv	94
14) Bromoethene	3.79	108	57066	0.881	ppbv	99
15) Acetone	3.90	43	162147	0.957	ppbv	99
16) 1,3-Butadiene	3.36	39	61162m	0.861	ppbv	
17) tert-Butyl alcohol	4.36	59	125625	0.964	ppbv	97
18) 1,1-Dichloroethene	4.35	96	64096	0.886	ppbv	93
19) Isopropyl Alcohol	4.03	45	100821	0.953	ppbv #	96
20) Methylene Chloride	4.41	84	60225	0.940	ppbv	98
21) Allyl Chloride	4.47	41	87590	0.851	ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	66212	0.923	ppbv	93
23) Vinyl Acetate	5.15	43	186255	0.853	ppbv #	94
24) 1,1-Dichloroethane	5.08	63	156234	0.947	ppbv	99
25) Ethyl Acetate	5.77	43	285075	1.033	ppbv	99
26) Hexane	5.78	57	123032	1.037	ppbv	96
27) Carbon Disulfide	4.62	76	143291	0.880	ppbv	97
28) Methyl tert-Butyl Ether	5.12	73	182938	0.923	ppbv	98
29) Chloroform	5.84	83	216213	1.016	ppbv	98
30) Cyclohexane	7.24	84	91200	0.921	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	117629	1.009	ppbv	90
32) 1,1,1-Trichloroethane	6.61	97	216908	0.991	ppbv	99
34) 2-Butanone	5.34	43	172676	1.001	ppbv	100
35) Carbon Tetrachloride	7.13	117	222572	1.006	ppbv	99
36) Benzene	7.00	78	241028	0.993	ppbv	97
37) 1,2-Dichloroethane	6.41	62	160478	0.948	ppbv	100
38) Trichloroethene	7.96	130	94715	1.069	ppbv	95
39) 1,2-Dichloropropane	7.73	63	93407	1.032	ppbv	95
40) 1,4-Dioxane	7.97	88	38582m	1.054	ppbv	
41) Tetrahydrofuran	6.16	42	88596	0.982	ppbv	99
42) Bromodichloromethane	7.91	83	215302	0.990	ppbv	98
43) Methyl Methacrylate	8.14	69	86268	0.947	ppbv	98

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44) 2,2,4-Trimethylpentane	7.98	57	427811	1.032	ppbv	98
45) t-1,3-Dichloropropene	9.41	75	97454	0.866	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	120494	0.861	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	105441	1.014	ppbv	91
48) Dibromochloromethane	10.44	129	172771	0.978	ppbv	98
49) Bromoform	13.19	173	142150	0.941	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	260869	0.998	ppbv	97
51) 2-Hexanone	10.28	43	190014	0.933	ppbv #	95
52) Tetrachloroethene	11.37	164	87940m	1.021	ppbv	
53) Toluene	9.94	91	254592	0.967	ppbv	99
54) 1,2-Dibromoethane	10.76	107	156387	0.996	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.27	131	126308	1.019	ppbv #	1
57) Chlorobenzene	12.30	112	231566	1.048	ppbv #	92
58) Ethyl Benzene	12.86	91	358622	1.021	ppbv	93
59) m/p-Xylene	13.14	91	633714m	2.049	ppbv	
60) o-Xylene	13.84	91	323509	1.036	ppbv	99
61) Styrene	13.68	104	202113	0.970	ppbv	99
62) Isopropylbenzene	14.82	105	428739	1.004	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	241385	1.066	ppbv	99
64) n-propylbenzene	15.72	120	112840	1.024	ppbv	96
65) tert-Butylbenzene	16.90	119	396198	1.012	ppbv	97
66) Benzyl Chloride	17.15	91	159023	0.887	ppbv #	99
67) sec-Butylbenzene	17.45	105	555133	1.018	ppbv	99
69) p-Isopropyltoluene	17.81	119	448416	0.997	ppbv	98
70) n-Butylbenzene	18.71	91	479001	1.008	ppbv	98
71) 2-Chlorotoluene	15.61	91	316194	1.003	ppbv	99
72) 4-Ethyltoluene	15.99	105	360124	0.982	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	360242	1.018	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	396061	1.004	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	244332m	1.029	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	221309	0.982	ppbv	97
77) 1,2-Dichlorobenzene	17.98	146	223137	1.012	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	175606	1.004	ppbv	99
79) Naphthalene	22.41	128	332278	0.921	ppbv	96
80) Naphthalene, 2-methyl-	25.11	142	106835	0.776	ppbv	97
81) 1,2,4-Trichlorobenzene	22.13	180	204215	0.974	ppbv	98

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

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