

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033742.D
 Acq On : 22 May 2019 12:49
 Operator : SY/AP
 Sample : VL0522ABS01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0522ABS01DUP

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:50:42 AM

Quant Time: May 23 04:48:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1044526	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2457484	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2767999m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2089653	9.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1647761	7.485	ppbv	100
3) Chlorodifluoromethane	3.01	51	1149295	9.606	ppbv	100
4) Chloromethane	3.17	50	667528	9.754	ppbv	100
5) Vinyl Chloride	3.29	62	677441	9.718	ppbv	95
6) Bromomethane	3.51	94	426247	10.021	ppbv	93
7) Chloroethane	3.60	64	251878	10.167	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1721278	9.699	ppbv	100
9) Propene	3.03	41	513712	10.094	ppbv	99
10) Heptane	8.24	43	1352484	9.385	ppbv	100
11) Trichlorofluoromethane	4.00	101	2032888	9.676	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1371092	9.345	ppbv	100
13) Ethanol	3.65	45	98347	5.979	ppbv	100
14) Bromoethene	3.78	108	567273	10.518	ppbv	99
15) Acetone	3.89	43	1270817	8.769	ppbv	100
16) 1,3-Butadiene	3.36	39	602314	10.437	ppbv	100
17) tert-Butyl alcohol	4.35	59	1199978	10.240	ppbv	100
18) 1,1-Dichloroethene	4.35	96	619486	10.004	ppbv	98
19) Isopropyl Alcohol	4.02	45	855969	9.160	ppbv	100
20) Methylene Chloride	4.40	84	524253	9.395	ppbv	98
21) Allyl Chloride	4.47	41	901927	9.978	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	635464	10.012	ppbv	94
23) Vinyl Acetate	5.15	43	1967908	10.299	ppbv	99
24) 1,1-Dichloroethane	5.08	63	1391862	9.582	ppbv	99
25) Ethyl Acetate	5.76	43	2375757	9.332	ppbv	100
26) Hexane	5.77	57	1040276	9.505	ppbv	99
27) Carbon Disulfide	4.62	76	1557448	10.372	ppbv	100
28) Methyl tert-Butyl Ether	5.10	73	1822122	10.213	ppbv	99
29) Chloroform	5.84	83	1787544	8.867	ppbv	100
30) Cyclohexane	7.24	84	878610	9.549	ppbv	99
31) cis-1,2-Dichloroethene	5.63	61	1085908	10.007	ppbv	98
32) 1,1,1-Trichloroethane	6.61	97	1833856	9.110	ppbv	100
34) 2-Butanone	5.32	43	1573311	10.329	ppbv	100
35) Carbon Tetrachloride	7.13	117	1950413	9.908	ppbv	99
36) Benzene	7.00	78	2175061	9.730	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1372698	9.519	ppbv	100
38) Trichloroethene	7.95	130	894083	10.779	ppbv	98
39) 1,2-Dichloropropane	7.73	63	812395	9.747	ppbv	97
40) 1,4-Dioxane	7.95	88	296745	8.511	ppbv #	95
41) Tetrahydrofuran	6.14	42	872426	10.222	ppbv	100
42) Bromodichloromethane	7.91	83	1956999	9.913	ppbv	98
43) Methyl Methacrylate	8.13	69	875194	10.638	ppbv	98

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

44) 2,2,4-Trimethylpentane	7.98	57	3648560	9.657	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1214615	11.646	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1345265	11.016	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	929230	9.814	ppbv	98
48) Dibromochloromethane	10.44	129	1711289	10.431	ppbv	99
49) Bromoform	13.20	173	1556498	11.276	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2357211	10.061	ppbv	99
51) 2-Hexanone	10.26	43	1979184	10.823	ppbv #	99
52) Tetrachloroethene	11.37	164	833853	10.611	ppbv	98
53) Toluene	9.94	91	2584153	10.718	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1466295	10.148	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1146311	8.950	ppbv	95
57) Chlorobenzene	12.29	112	2021382	8.872	ppbv	99
58) Ethyl Benzene	12.85	91	3572661	9.747	ppbv	100
59) m/p-Xylene	13.14	91	5978727m	18.659	ppbv	
60) o-Xylene	13.84	91	3016538	9.339	ppbv	99
61) Styrene	13.68	104	2270636	10.441	ppbv	100
62) Isopropylbenzene	14.82	105	4041628	9.291	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2130302	9.069	ppbv	100
64) n-propylbenzene	15.71	120	1049526	9.328	ppbv	99
65) tert-Butylbenzene	16.90	119	3737572	9.411	ppbv	99
66) Benzyl Chloride	17.15	91	1978280	10.458	ppbv	100
67) sec-Butylbenzene	17.45	105	5196164	9.348	ppbv	100
69) p-Isopropyltoluene	17.80	119	4256821	9.265	ppbv	99
70) n-Butylbenzene	18.70	91	4416156	8.963	ppbv	100
71) 2-Chlorotoluene	15.61	91	3064943	9.497	ppbv	99
72) 4-Ethyltoluene	15.99	105	3603491	9.757	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3416471	9.481	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3556018	9.068	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	2067134	8.602	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	2023146	8.858	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1980820	8.772	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1150477	6.739	ppbv	99
79) Naphthalene	22.40	128	2872465	7.886	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	904654	6.536	ppbv	96
81) 1,2,4-Trichlorobenzene	22.12	180	1619896	7.595	ppbv	99

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

