

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040521\
 Data File : VL036696.D
 Acq On : 6 Apr 2021 9:14
 Operator : SY/AP
 Sample : VL0405ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0405ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/6/2021 5:14:50 PM

Quant Time: Apr 06 10:12:34 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1294154	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3372157	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3230304	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2543680	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1681617	7.967	ppbv	98
3) Chlorodifluoromethane	2.99	51	2335181	9.658	ppbv	99
4) Chloromethane	3.14	50	846430	9.911	ppbv	93
5) Vinyl Chloride	3.26	62	835861	9.518	ppbv	100
6) Bromomethane	3.47	94	452724	9.364	ppbv	97
7) Chloroethane	3.56	64	287077	9.514	ppbv	93
8) Dichlorotetrafluoroethane	3.19	85	1899919	9.431	ppbv	97
9) Propene	3.01	41	787363	10.214	ppbv	99
10) Heptane	8.12	43	2029762	10.336	ppbv	100
11) Trichlorofluoromethane	3.95	101	1949874	9.064	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1330924	9.677	ppbv	99
13) Ethanol	3.61	45	99020	10.787	ppbv	99
14) Bromoethene	3.74	108	549734	9.615	ppbv	98
15) Acetone	3.86	43	1050427m	8.247	ppbv	
16) 1,3-Butadiene	3.32	39	986224	11.121	ppbv	90
17) tert-Butyl alcohol	4.29	59	1225179	11.049	ppbv	100
18) 1,1-Dichloroethene	4.29	96	589032	9.628	ppbv	96
19) Isopropyl Alcohol	3.97	45	743101	10.605	ppbv	98
20) Methylene Chloride	4.34	84	520208	8.723	ppbv	97
21) Allyl Chloride	4.41	41	1020117	10.047	ppbv	94
22) trans-1,2-Dichloroethene	4.89	96	594791	10.487	ppbv	94
23) Vinyl Acetate	5.07	43	2323584m	10.665	ppbv	
24) 1,1-Dichloroethane	5.01	63	1509813	9.507	ppbv	99
25) Ethyl Acetate	5.68	43	3195664	10.553	ppbv	99
26) Hexane	5.69	57	1563503	11.126	ppbv	95
27) Carbon Disulfide	4.55	76	1400510	10.117	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1699728	10.256	ppbv	99
29) Chloroform	5.75	83	2200761	9.792	ppbv	98
30) Cyclohexane	7.13	84	1242297	10.900	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1427045	10.499	ppbv	95
32) 1,1,1-Trichloroethane	6.51	97	2243374	9.905	ppbv	99
34) 2-Butanone	5.24	43	1516055	9.210	ppbv	98
35) Carbon Tetrachloride	7.02	117	2336001	9.019	ppbv	99
36) Benzene	6.89	78	3010903	9.681	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1692065	9.244	ppbv	100
38) Trichloroethene	7.83	130	1096813	9.062	ppbv	97
39) 1,2-Dichloropropane	7.61	63	1154256	9.149	ppbv	96
40) 1,4-Dioxane	7.83	88	282288	9.614	ppbv	78
41) Tetrahydrofuran	6.05	42	754690	9.944	ppbv	96
42) Bromodichloromethane	7.79	83	2350469	9.440	ppbv	97
43) Methyl Methacrylate	8.01	69	1104679	10.578	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5732510	10.473	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1307543	10.965	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1625071	10.661	ppbv	100
47) 1,1,2-Trichloroethane	9.48	97	1187353	9.292	ppbv	98
48) Dibromochloromethane	10.31	129	1988495	10.208	ppbv	100
49) Bromoform	13.05	173	1598314	10.183	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2358254	9.901	ppbv	99
51) 2-Hexanone	10.14	43	1298783	10.806	ppbv #	100
52) Tetrachloroethene	11.23	164	1026232	8.961	ppbv	95
53) Toluene	9.81	91	3359667	10.144	ppbv	100
54) 1,2-Dibromoethane	10.62	107	1741182	9.649	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1326863	9.081	ppbv	98
57) Chlorobenzene	12.15	112	2431094	8.845	ppbv	98
58) Ethyl Benzene	12.72	91	4386809	9.334	ppbv	99
59) m/p-Xylene	13.00	91	7381797m	18.008	ppbv	
60) o-Xylene	13.70	91	3485813	8.795	ppbv	100
61) Styrene	13.53	104	2112211	10.593	ppbv	99
62) Isopropylbenzene	14.67	105	4782370	8.960	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	2422800	8.013	ppbv	99
64) n-propylbenzene	15.57	120	1236475	9.475	ppbv	99
65) tert-Butylbenzene	16.75	119	4154482	8.976	ppbv	99
66) Benzyl Chloride	17.00	91	632041	12.355	ppbv	99
67) sec-Butylbenzene	17.30	105	5774592	8.839	ppbv	100
69) p-Isopropyltoluene	17.66	119	4800977	9.411	ppbv	99
70) n-Butylbenzene	18.56	91	4841830	9.153	ppbv	99
71) 2-Chlorotoluene	15.46	91	3637418	9.095	ppbv	100
72) 4-Ethyltoluene	15.84	105	4090379	9.418	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	3731893	9.207	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	3847389	8.869	ppbv	97
75) 1,3-Dichlorobenzene	17.00	146	2198658	9.005	ppbv	100
76) 1,4-Dichlorobenzene	17.15	146	2152802	8.880	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	2094933	9.128	ppbv	98
78) Hexachloro-1,3-Butadiene	23.39	225	1656539	8.059	ppbv	99
79) Naphthalene	22.20	128	2736781	10.812	ppbv	98
80) Naphthalene, 2-methyl-	24.99	142	784340	15.714	ppbv	98
81) 1,2,4-Trichlorobenzene	21.94	180	1560529	9.985	ppbv	99

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

