

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050720\
 Data File : VL034965.D
 Acq On : 7 May 2020 13:05
 Operator : SY/AP
 Sample : VL0507ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0507ABS01

Manual Integrations
 APPROVED

sam
 5/11/2020 12:03:27 PM

Quant Time: May 08 09:25:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1101282	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2582586	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2644994m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1990065	9.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1287333	8.236	ppbv 97
3) Chlorodifluoromethane	2.95	51	1123888	8.939	ppbv 99
4) Chloromethane	3.11	50	656724	9.114	ppbv 98
5) Vinyl Chloride	3.23	62	629231	8.951	ppbv 97
6) Bromomethane	3.45	94	368806	8.787	ppbv 89
7) Chloroethane	3.53	64	232035	9.191	ppbv 98
8) Dichlorotetrafluoroethane	3.15	85	1406208	8.693	ppbv 100
9) Propene	2.97	41	508538	9.321	ppbv 100
10) Heptane	8.15	43	1363261	9.974	ppbv 99
11) Trichlorofluoromethane	3.93	101	1417296	8.794	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	996926	8.687	ppbv 99
13) Ethanol	3.58	45	142481	7.914	ppbv 96
14) Bromoethene	3.72	108	448451	9.456	ppbv 99
15) Acetone	3.83	43	1136059	7.803	ppbv 99
16) 1,3-Butadiene	3.29	39	585411	9.343	ppbv 98
17) tert-Butyl alcohol	4.28	59	1184639	9.145	ppbv 99
18) 1,1-Dichloroethene	4.27	96	468609	9.412	ppbv 96
19) Isopropyl Alcohol	3.95	45	869871	8.959	ppbv 100
20) Methylene Chloride	4.33	84	404504	8.393	ppbv 94
21) Allyl Chloride	4.39	41	787969	9.581	ppbv 98
22) trans-1,2-Dichloroethene	4.88	96	468162	9.493	ppbv 99
23) Vinyl Acetate	5.07	43	1814136	9.826	ppbv 100
24) 1,1-Dichloroethane	5.01	63	1296296	9.116	ppbv 99
25) Ethyl Acetate	5.68	43	2266442	9.267	ppbv 100
26) Hexane	5.69	57	1009441	9.521	ppbv 100
27) Carbon Disulfide	4.54	76	1161458	9.294	ppbv 99
28) Methyl tert-Butyl Ether	5.02	73	1531727	9.486	ppbv 99
29) Chloroform	5.76	83	1550839	8.940	ppbv 97
30) Cyclohexane	7.15	84	841397	10.284	ppbv 98
31) cis-1,2-Dichloroethene	5.55	61	1030780	9.964	ppbv 97
32) 1,1,1-Trichloroethane	6.52	97	1485198	9.480	ppbv 99
34) 2-Butanone	5.24	43	1514656	9.436	ppbv 100
35) Carbon Tetrachloride	7.04	117	1498726	9.194	ppbv 97
36) Benzene	6.91	78	2021552	9.494	ppbv 99
37) 1,2-Dichloroethane	6.32	62	1194828	9.097	ppbv 100
38) Trichloroethene	7.86	130	759308	9.205	ppbv 98
39) 1,2-Dichloropropane	7.64	63	793831	9.300	ppbv 96
40) 1,4-Dioxane	7.85	88	315204	9.085	ppbv # 1
41) Tetrahydrofuran	6.05	42	851275	10.073	ppbv 100
42) Bromodichloromethane	7.82	83	1610591	9.092	ppbv 99
43) Methyl Methacrylate	8.03	69	927824	10.319	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3495186	9.233	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1012435	11.158	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	1194253	10.721	ppbv	96
47) 1,1,2-Trichloroethane	9.51	97	821045	9.115	ppbv	96
48) Dibromochloromethane	10.34	129	1301391	9.395	ppbv	99
49) Bromoform	13.09	173	1103052	9.255	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2249860	9.830	ppbv	99
51) 2-Hexanone	10.16	43	1801876	10.065	ppbv #	100
52) Tetrachloroethene	11.26	164	698474	9.225	ppbv	99
53) Toluene	9.84	91	2302183	10.200	ppbv	100
54) 1,2-Dibromoethane	10.65	107	1216595	9.198	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.17	131	986863	8.273	ppbv	98
57) Chlorobenzene	12.19	112	1703386	8.129	ppbv	98
58) Ethyl Benzene	12.75	91	3057413	9.348	ppbv	99
59) m/p-Xylene	13.04	91	4986402m	17.328	ppbv	
60) o-Xylene	13.74	91	2455568	8.647	ppbv	100
61) Styrene	13.58	104	1755541	9.769	ppbv	100
62) Isopropylbenzene	14.72	105	3602607	8.497	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1694724	7.582	ppbv	100
64) n-propylbenzene	15.61	120	945611	8.696	ppbv	97
65) tert-Butylbenzene	16.80	119	3136846	8.531	ppbv	99
66) Benzyl Chloride	17.05	91	1170896	9.380	ppbv	99
67) sec-Butylbenzene	17.35	105	4519744	8.611	ppbv	99
69) p-Isopropyltoluene	17.71	119	3763153	8.862	ppbv	100
70) n-Butylbenzene	18.61	91	4071589	9.008	ppbv	99
71) 2-Chlorotoluene	15.51	91	2809994	8.780	ppbv	99
72) 4-Ethyltoluene	15.89	105	2860576	9.029	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	2696906	8.747	ppbv	100
74) 1,2,4-Trimethylbenzene	16.82	105	2823650	8.390	ppbv	95
75) 1,3-Dichlorobenzene	17.06	146	1653383	8.367	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	1654832	8.813	ppbv	100
77) 1,2-Dichlorobenzene	17.88	146	1634143	8.777	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1386995	8.739	ppbv	99
79) Naphthalene	22.28	128	3328050	12.699	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	554163	8.602	ppbv	97
81) 1,2,4-Trichlorobenzene	22.01	180	1742160	10.963	ppbv	99

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

