

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071119\
 Data File : VL034019.D
 Acq On : 11 Jul 2019 15:21
 Operator : SY/AP
 Sample : VL0711ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS01

Manual Integrations
 APPROVED

MMDadoda
 7/12/2019 10:46:54 PM

Quant Time: Jul 12 07:25:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1068193	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2889073	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.19	117	2981749	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2263962	8.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	2214154	10.044	ppbv	96
3) Chlorodifluoromethane	2.99	51	1293910	9.809	ppbv	99
4) Chloromethane	3.15	50	751821	9.912	ppbv	95
5) Vinyl Chloride	3.27	62	822169	9.640	ppbv	98
6) Bromomethane	3.49	94	538300	10.703	ppbv	94
7) Chloroethane	3.58	64	315928	10.364	ppbv	93
8) Dichlorotetrafluoroethane	3.20	85	2117165	9.851	ppbv	100
9) Propene	3.01	41	508371	10.477	ppbv	97
10) Heptane	8.21	43	1444187	11.886	ppbv	100
11) Trichlorofluoromethane	3.98	101	2258511	9.112	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1629883	9.290	ppbv	99
13) Ethanol	3.63	45	135603	8.995	ppbv	96
14) Bromoethene	3.76	108	694806	10.605	ppbv	99
15) Acetone	3.88	43	1518479	8.455	ppbv	100
16) 1,3-Butadiene	3.34	39	683091	10.771	ppbv	100
17) tert-Butyl alcohol	4.33	59	1480035	10.336	ppbv	99
18) 1,1-Dichloroethene	4.32	96	761722	9.748	ppbv	93
19) Isopropyl Alcohol	4.00	45	1151871	9.555	ppbv	99
20) Methylene Chloride	4.38	84	654665	8.358	ppbv	99
21) Allyl Chloride	4.45	41	1109636	9.909	ppbv	100
22) trans-1,2-Dichloroethene	4.93	96	756180	10.155	ppbv	97
23) Vinyl Acetate	5.12	43	1966497	10.970	ppbv	99
24) 1,1-Dichloroethane	5.06	63	1605677	10.107	ppbv	100
25) Ethyl Acetate	5.73	43	2585001	10.524	ppbv	100
26) Hexane	5.74	57	1187555	10.565	ppbv	99
27) Carbon Disulfide	4.59	76	1956158	10.236	ppbv	99
28) Methyl tert-Butyl Ether	5.08	73	2068022	10.864	ppbv	99
29) Chloroform	5.81	83	2060206	9.753	ppbv	97
30) Cyclohexane	7.21	84	1054942	12.152	ppbv	96
31) cis-1,2-Dichloroethene	5.61	61	1218598	11.221	ppbv	96
32) 1,1,1-Trichloroethane	6.59	97	2108657	9.849	ppbv	99
34) 2-Butanone	5.30	43	1575669	10.305	ppbv	100
35) Carbon Tetrachloride	7.10	117	2269923	9.925	ppbv	99
36) Benzene	6.97	78	2454107	10.856	ppbv	98
37) 1,2-Dichloroethane	6.38	62	1600457	9.610	ppbv	99
38) Trichloroethene	7.92	130	1104386	10.980	ppbv	96
39) 1,2-Dichloropropane	7.70	63	904977	10.766	ppbv	98
40) 1,4-Dioxane	7.92	88	431661	11.122	ppbv #	93
41) Tetrahydrofuran	6.11	42	833448	11.115	ppbv	98
42) Bromodichloromethane	7.88	83	2307493	10.326	ppbv	97
43) Methyl Methacrylate	8.10	69	1022337	11.919	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4278347	10.964	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	1386986	12.366	ppbv	96
46) cis-1,3-Dichloropropene	8.80	75	1568242	12.073	ppbv	99
47) 1,1,2-Trichloroethane	9.58	97	1094765	10.358	ppbv	94
48) Dibromochloromethane	10.41	129	1998628	9.910	ppbv	100
49) Bromoform	13.16	173	1764248	10.240	ppbv	100
50) 4-Methyl-2-Pentanone	8.83	43	2456160	10.825	ppbv	99
51) 2-Hexanone	10.23	43	2027534	11.080	ppbv #	100
52) Tetrachloroethene	11.33	164	1044454	10.735	ppbv	96
53) Toluene	9.91	91	3101041	11.984	ppbv	98
54) 1,2-Dibromoethane	10.72	107	1693770	10.859	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.24	131	1330935	9.987	ppbv	97
57) Chlorobenzene	12.26	112	2382668	10.037	ppbv	99
58) Ethyl Benzene	12.82	91	4058572	11.319	ppbv	99
59) m/p-Xylene	13.10	91	6752054m	20.797	ppbv	
60) o-Xylene	13.81	91	3350730	10.317	ppbv	99
61) Styrene	13.64	104	2494905	11.607	ppbv	99
62) Isopropylbenzene	14.79	105	4482359	8.977	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.79	83	2241041	8.914	ppbv	100
64) n-propylbenzene	15.68	120	1156988	8.936	ppbv	99
65) tert-Butylbenzene	16.87	119	3992160	9.402	ppbv	99
66) Benzyl Chloride	17.11	91	2155402	9.922	ppbv	100
67) sec-Butylbenzene	17.42	105	5642597	9.468	ppbv	99
69) p-Isopropyltoluene	17.77	119	4704116	9.573	ppbv	99
70) n-Butylbenzene	18.67	91	4955632	9.600	ppbv	99
71) 2-Chlorotoluene	15.57	91	3401805	9.310	ppbv	100
72) 4-Ethyltoluene	15.96	105	3976300	9.533	ppbv	98
73) 1,3,5-Trimethylbenzene	16.11	105	3776587	9.731	ppbv	100
74) 1,2,4-Trimethylbenzene	16.88	105	3859394	8.978	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	2338755	8.565	ppbv	100
76) 1,4-Dichlorobenzene	17.26	146	2299222	8.941	ppbv	100
77) 1,2-Dichlorobenzene	17.95	146	2272618	8.988	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	1967936	9.147	ppbv	99
79) Naphthalene	22.36	128	4255564	11.776	ppbv	97
80) Naphthalene, 2-methyl-	25.08	142	1081567	8.224	ppbv	99
81) 1,2,4-Trichlorobenzene	22.08	180	2442877	10.525	ppbv	99

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

