

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD112019\
 Data File : VD064314.D
 Acq On : 20 Nov 2019 15:47
 Operator : VA/SY
 Sample : K5957-01
 Misc : 4.98G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MW-1-(12-14)

Quant Time: Nov 20 16:09:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	856533	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1255501	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	1024000	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	3818197	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	374148	53.11	ug/l	0.00
Spiked Amount			Recovery	=	106.22%	
35) Dibromofluoromethane	7.92	113	387104	53.71	ug/l	0.00
Spiked Amount			Recovery	=	107.42%	
50) Toluene-d8	10.34	98	1436109	52.82	ug/l	0.00
Spiked Amount			Recovery	=	105.64%	
62) 4-Bromofluorobenzene	12.65	95	6767527	718.80	ug/l	0.01
Spiked Amount			Recovery	=	1437.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.29	142	636	2.102	ug/l #	41
11) Tert butyl alcohol	5.26	59	11528	23.430	ug/l	94
16) Acetone	4.18	43	21538	12.906	ug/l	98
20) Methylene Chloride	4.96	84	15414	1.828	ug/l #	81
25) 2-Butanone	7.23	43	9049	4.197	ug/l #	85
29) Tetrahydrofuran	7.58	42	1347	1.040	ug/l #	51
31) Cyclohexane	7.98	56	25235	1.825	ug/l #	44
36) 1,1-Dichloropropene	7.99	75	57845	4.992	ug/l #	50
38) Carbon Tetrachloride	7.99	117	80144	6.464	ug/l #	16
39) Methylcyclohexane	9.36	83	45514	3.104	ug/l #	85
49) 1,4-Dioxane	9.38	88	76	1.534	ug/l #	22
51) 4-Methyl-2-Pentanone	10.34	43	89103	18.461	ug/l #	61
55) 1,1,2-Trichloroethane	10.78	97	771637	137.845	ug/l #	25
56) Ethyl methacrylate	10.64	69	315956	40.348	ug/l #	22
59) 2-Hexanone	10.96	43	5725002	1667.243	ug/l #	30
60) Dibromochloromethane	11.07	129	17257	2.209	ug/l	59
61) 1,2-Dibromoethane	11.26	107	9377	1.672	ug/l #	1
64) Tetrachloroethene	10.88	164	16005	2.032	ug/l	90
65) Chlorobenzene	11.79	112	608526	29.224	ug/l #	43
67) Ethyl Benzene	11.76	91	100338	2.664	ug/l	94
68) m/p-Xylenes	11.87	106	122609	8.493	ug/l #	2
69) o-Xylene	12.19	106	42455	3.171	ug/l #	1
73) Isopropylbenzene	12.50	105	10822900	38.618	ug/l	98
74) N-amyl acetate	12.38	43	3465108	52.358	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.73	83	7440115	176.184	ug/l #	26
76) 1,2,3-Trichloropropane	12.84	75	116845	3.799	ug/l #	100
77) Bromobenzene	12.75	156	259160	3.806	ug/l #	1
78) n-propylbenzene	12.84	91	11964308	37.366	ug/l	99
79) 2-Chlorotoluene	12.84	91	11964308	66.183	ug/l	79
80) 1,3,5-Trimethylbenzene	12.94	105	6025151	26.164	ug/l	70
81) trans-1,4-Dichloro-2-buten	12.50	75	121428	7.843	ug/l #	1
82) 4-Chlorotoluene	12.84	91	11964308	63.453	ug/l	79
83) tert-Butylbenzene	13.24	119	8111885	39.948	ug/l	98
84) 1,2,4-Trimethylbenzene	13.14	105	597354	2.627	ug/l #	30

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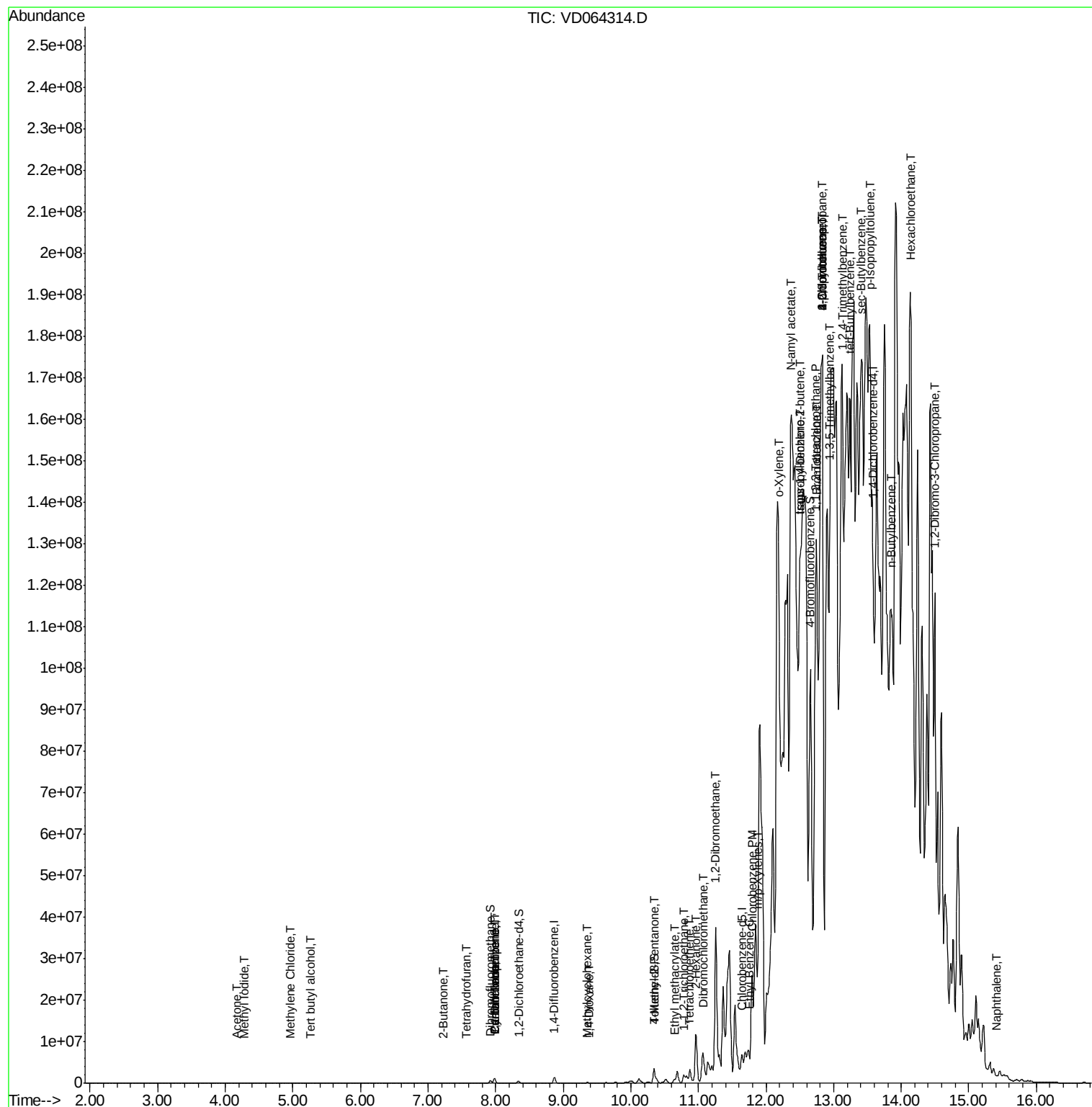
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) sec-Butylbenzene	13.41	105	18819863	69.006	ug/l #	53
86) p-Isopropyltoluene	13.54	119	5365505	20.694	ug/l	96
89) n-Butylbenzene	13.86	91	16263998	69.431	ug/l #	67
90) Hexachloroethane	14.14	117	9392217	196.006	ug/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.50	75	468051	61.991	ug/l #	1
95) Naphthalene	15.41	128	465658	3.442	ug/l #	93

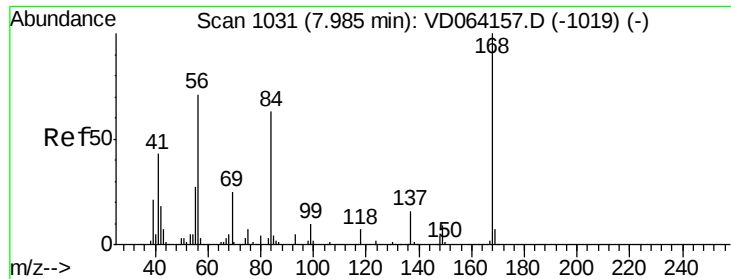
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064314.D

Acq: 20 Nov 2019 15:47

Instrument :

MSVOA_D

ClientSampleId :

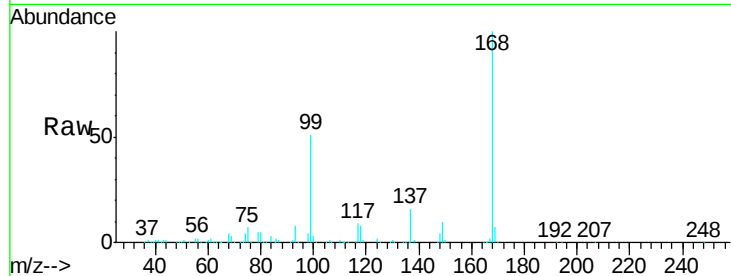
MW-1-(12-14)

Tgt Ion:168 Resp: 856533

Ion Ratio Lower Upper

168 100

99 50.5 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.99

400000

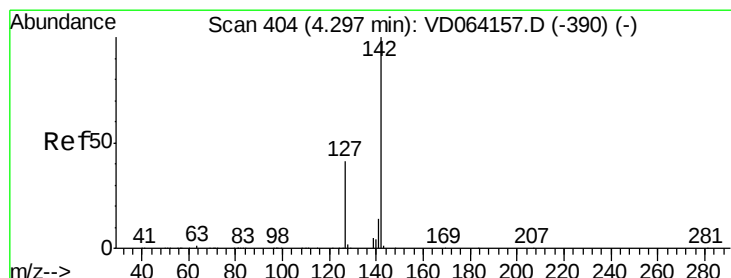
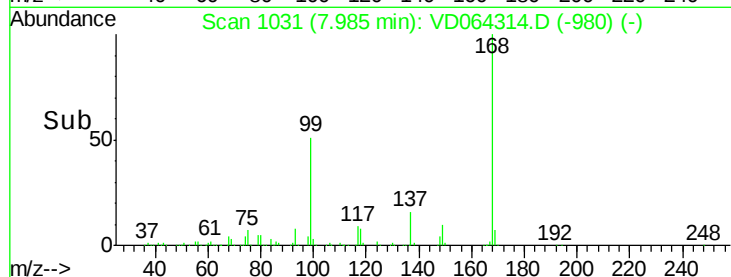
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 2.102 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.00 min

Lab File: VD064314.D

Acq: 20 Nov 2019 15:47

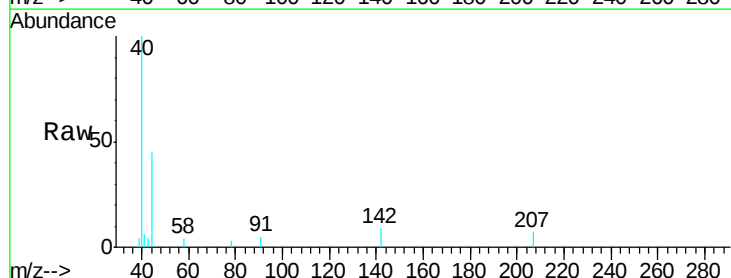
Tgt Ion:142 Resp: 636

Ion Ratio Lower Upper

142 100

127 0.0 34.4 51.6#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.29

500

400

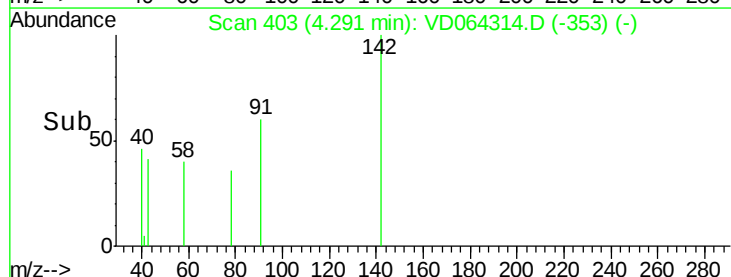
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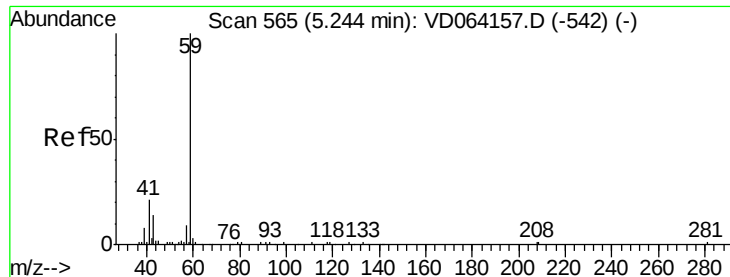
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100

0

Time-->

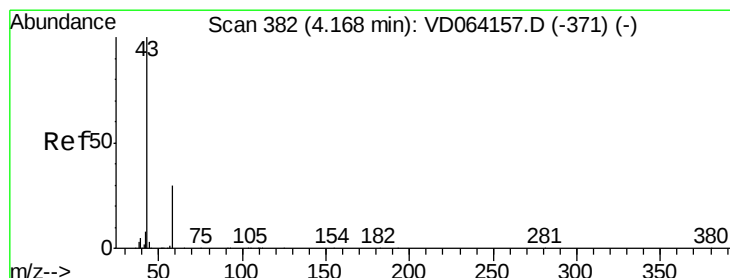
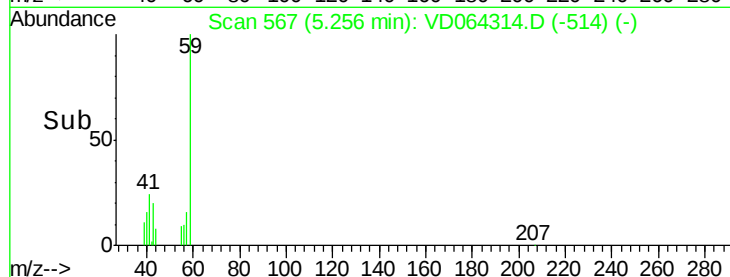
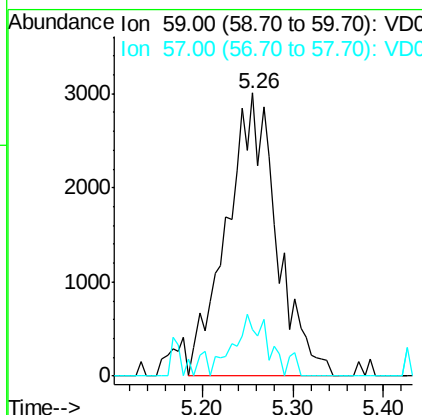
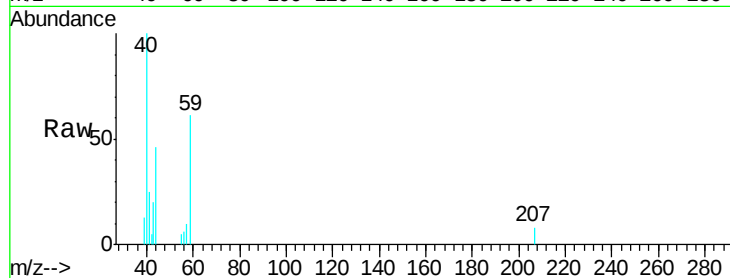




#11
Tert butyl alcohol
Concen: 23.430 ug/l
RT: 5.26 min Scan# 567
Delta R.T. 0.01 min
Lab File: VD064314.D
Acq: 20 Nov 2019 15:47

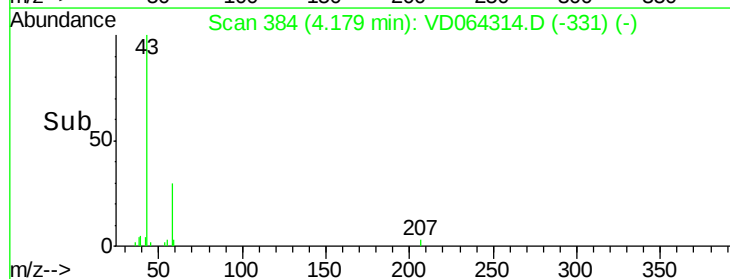
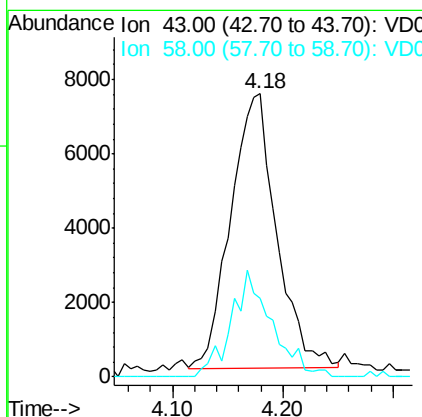
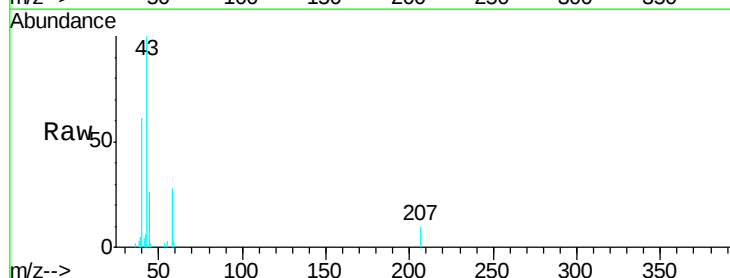
Instrument :
MSVOA_D
ClientSampleId :
MW-1-(12-14)

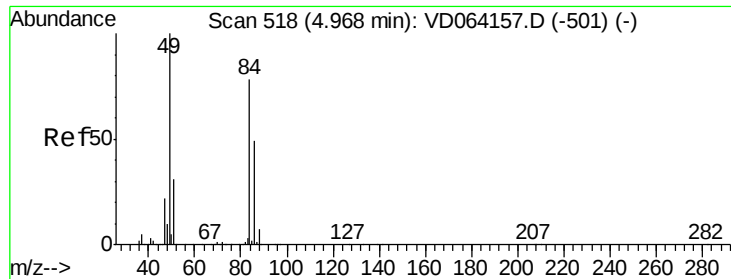
Tgt Ion: 59 Resp: 11528
Ion Ratio Lower Upper
59 100
57 14.2 9.4 14.2



#16
Acetone
Concen: 12.906 ug/l
RT: 4.18 min Scan# 384
Delta R.T. 0.01 min
Lab File: VD064314.D
Acq: 20 Nov 2019 15:47

Tgt Ion: 43 Resp: 21538
Ion Ratio Lower Upper
43 100
58 28.8 24.1 36.1

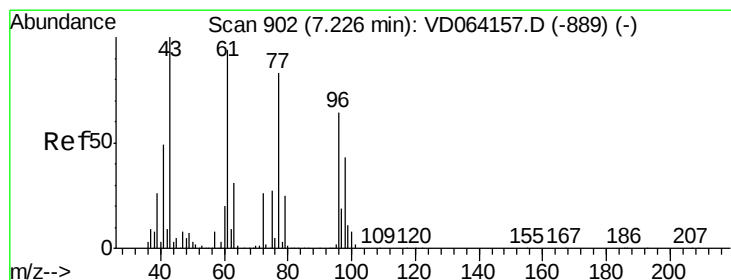
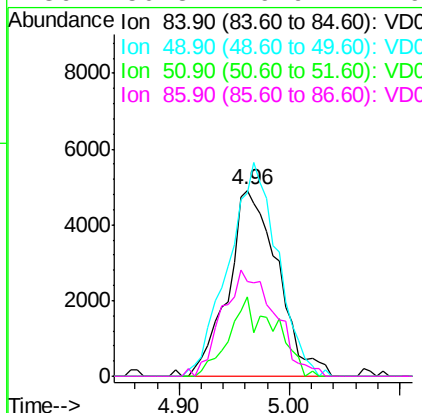
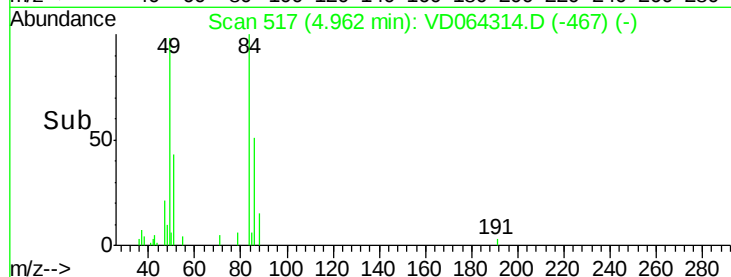
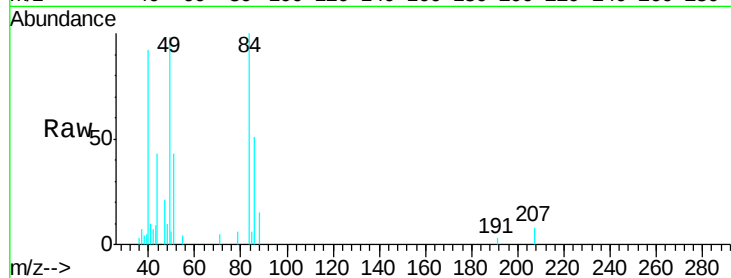




#20
Methylene Chloride
Concen: 1.828 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD064314.D
Acq: 20 Nov 2019 15:47

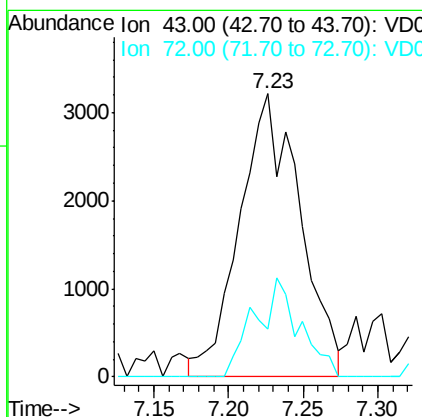
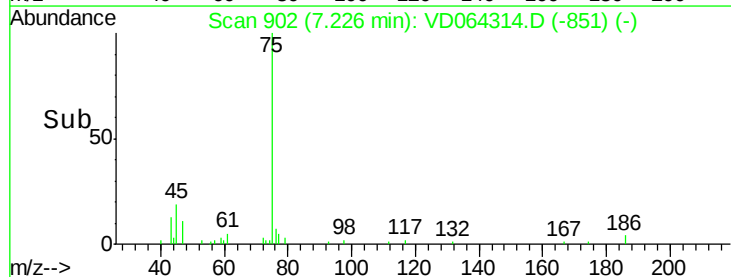
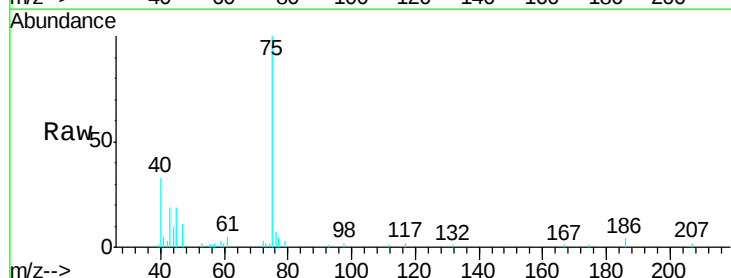
Instrument :
MSVOA_D
ClientSampleId :
MW-1-(12-14)

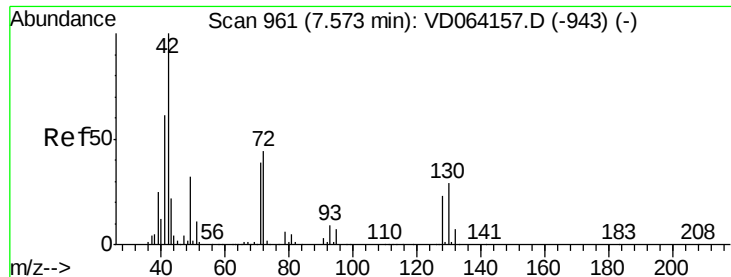
Tgt Ion:	84	Resp:	15414
Ion	Ratio	Lower	Upper
84	100		
49	98.2	102.1	153.1#
51	42.8	32.2	48.2
86	50.8	49.9	74.9



#25
2-Butanone
Concen: 4.197 ug/l
RT: 7.23 min Scan# 902
Delta R.T. 0.00 min
Lab File: VD064314.D
Acq: 20 Nov 2019 15:47

Tgt Ion:	43	Resp:	9049
Ion	Ratio	Lower	Upper
43	100		
72	18.1	20.6	30.8#

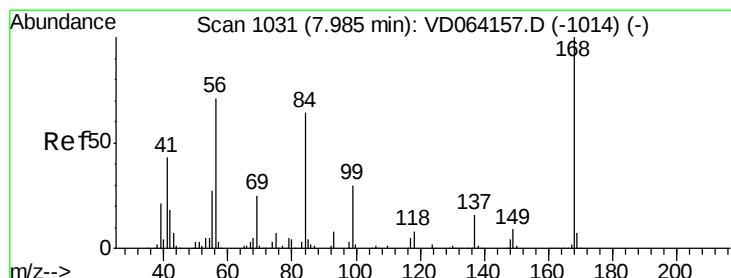
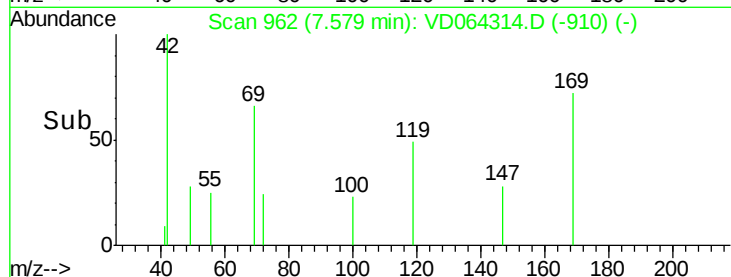
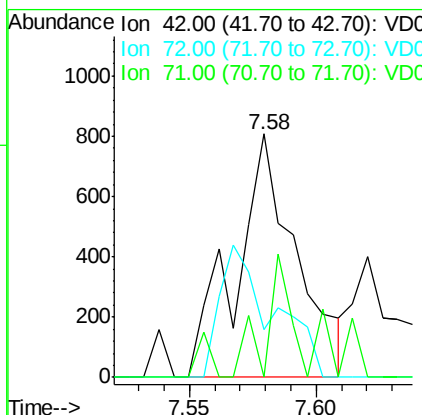
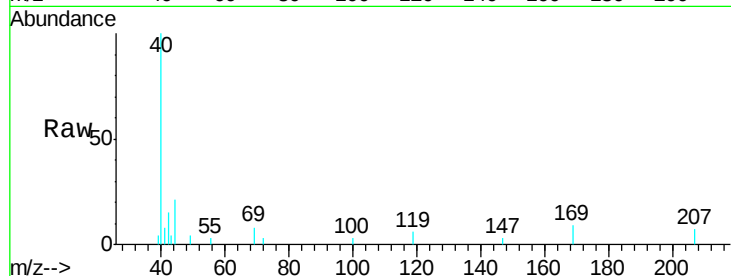




#29
Tetrahydrofuran
Concen: 1.040 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD064314.D
Acq: 20 Nov 2019 15:47

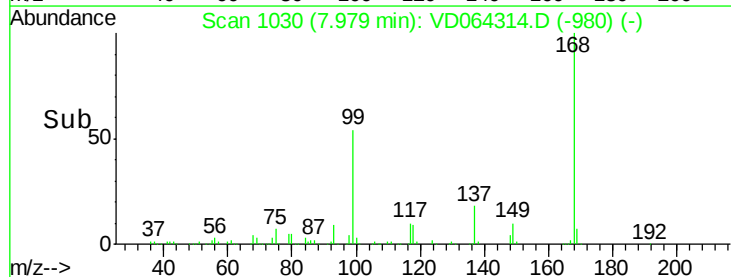
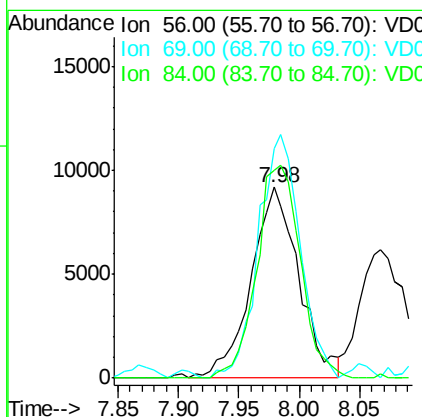
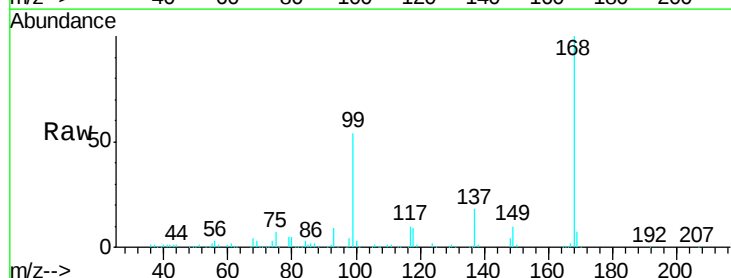
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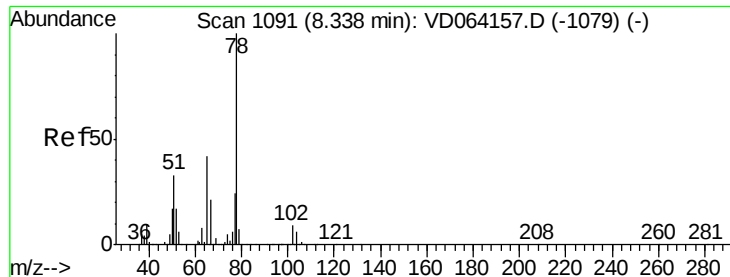
Tgt Ion: 42 Resp: 1347
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.2#
71 20.7 31.0 46.4#



#31
Cyclohexane
Concen: 1.825 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064314.D
Acq: 20 Nov 2019 15:47

Tgt Ion: 56 Resp: 25235
Ion Ratio Lower Upper
56 100
69 120.6 28.2 42.4#
84 109.3 71.8 107.6#

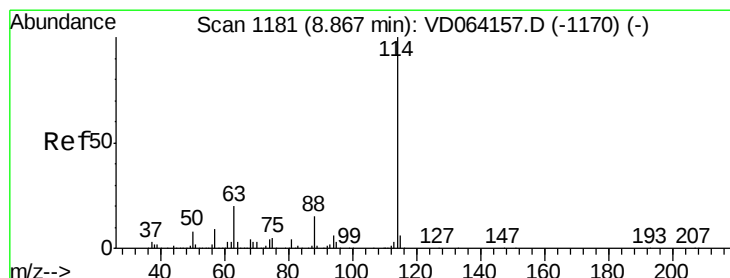
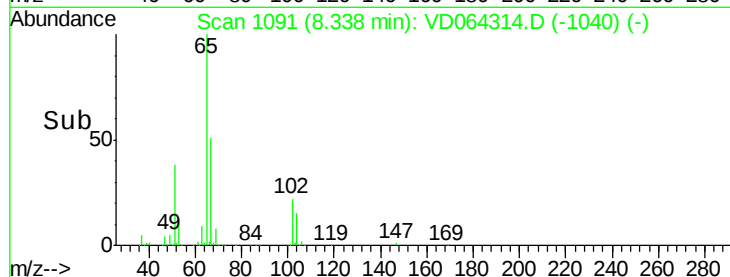
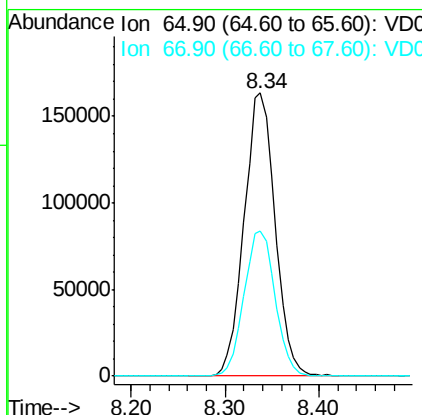
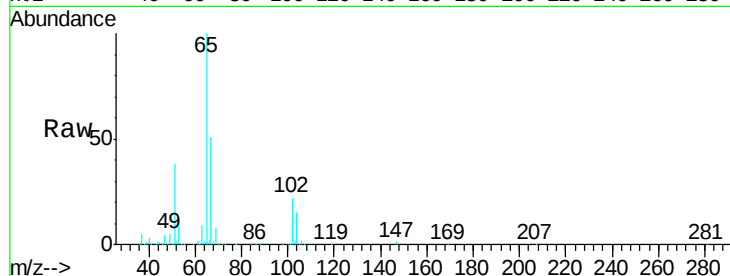




#33
 1,2-Dichloroethane-d4
 Concen: 53.112 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD064314.D
 Acq: 20 Nov 2019 15:47

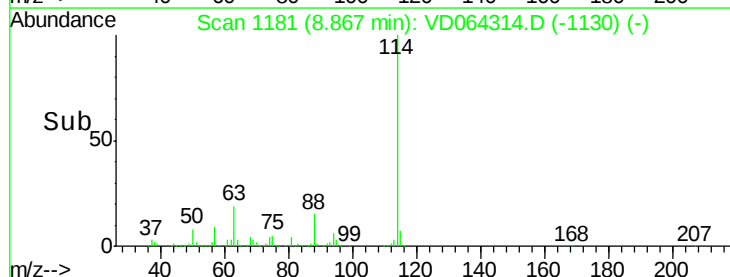
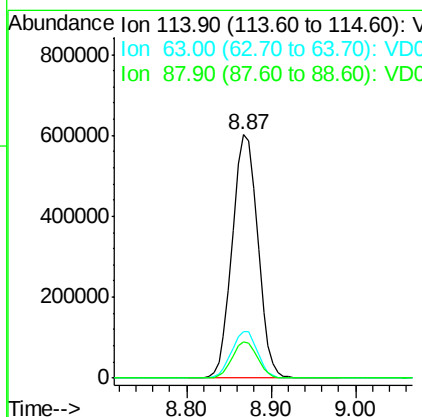
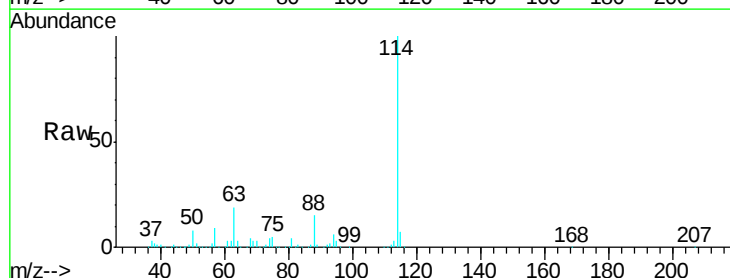
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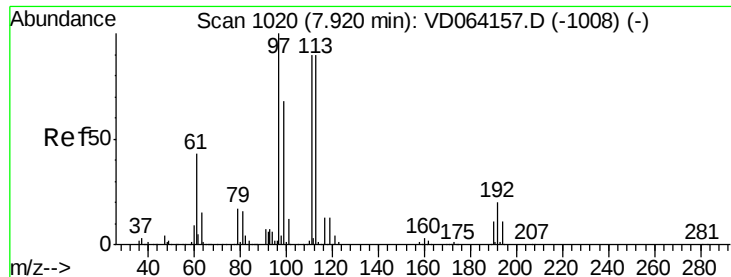
Tgt Ion: 65 Resp: 374148
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064314.D
 Acq: 20 Nov 2019 15:47

Tgt Ion: 114 Resp: 1255501
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.0 0.0 30.2

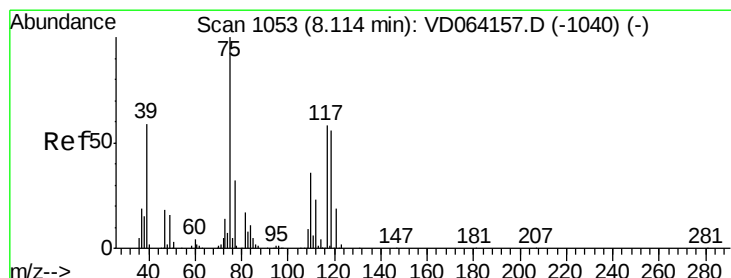
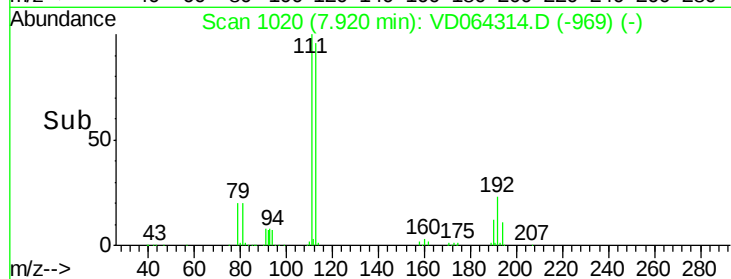
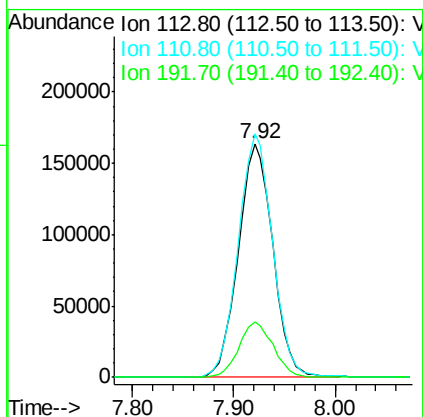
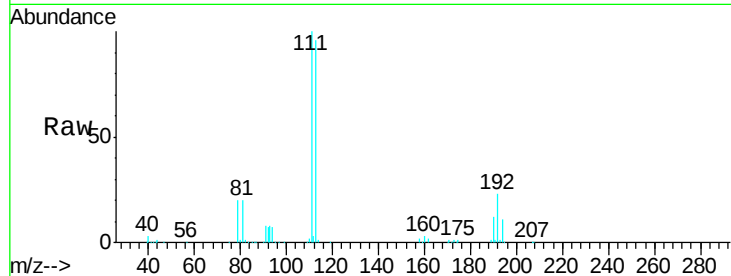




#35
 Dibromofluoromethane
 Concen: 53.714 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064314.D
 Acq: 20 Nov 2019 15:47

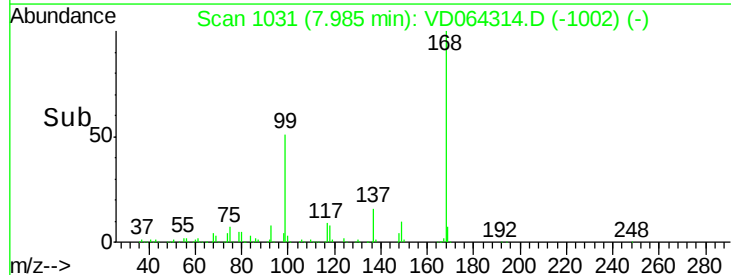
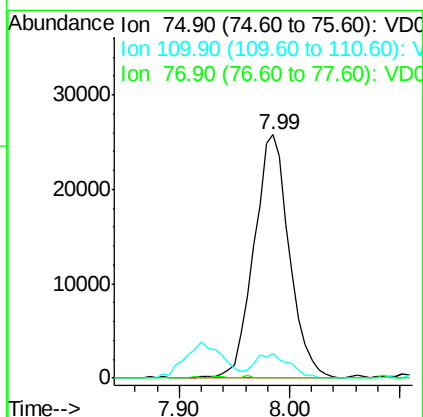
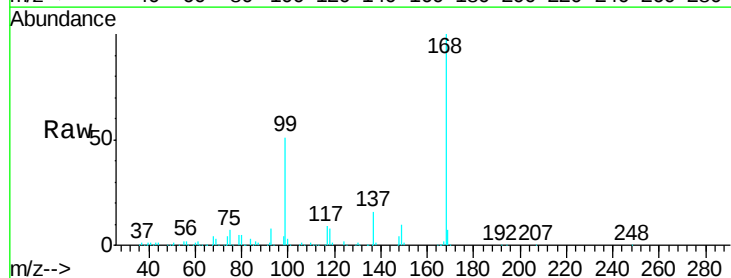
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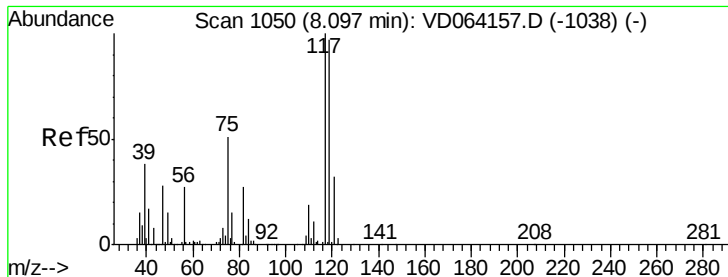
Tgt Ion: 113 Resp: 387104
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.5 122.3
 192 23.8 18.8 28.2



#36
 1,1-Dichloropropene
 Concen: 4.992 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064314.D
 Acq: 20 Nov 2019 15:47

Tgt Ion: 75 Resp: 57845
 Ion Ratio Lower Upper
 75 100
 110 9.9 18.3 54.9#
 77 0.0 25.0 37.6#





#38

Carbon Tetrachloride

Concen: 6.464 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064314.D

Acq: 20 Nov 2019 15:47

Instrument :

MSVOA_D

ClientSampleId :

MW-1-(12-14)

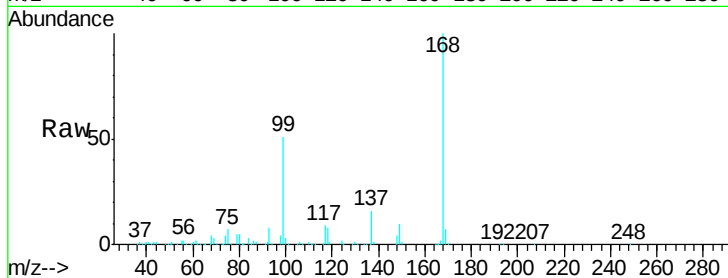
Tgt Ion: 117 Resp: 80144

Ion Ratio Lower Upper

117 100

119 5.4 77.2 115.8#

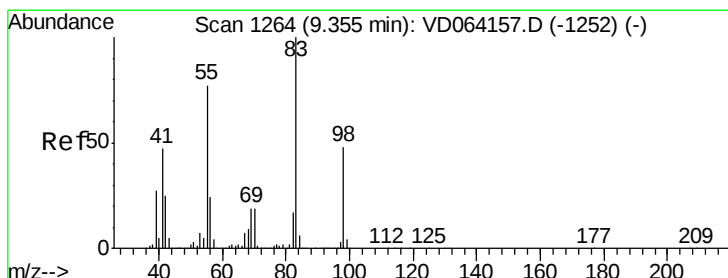
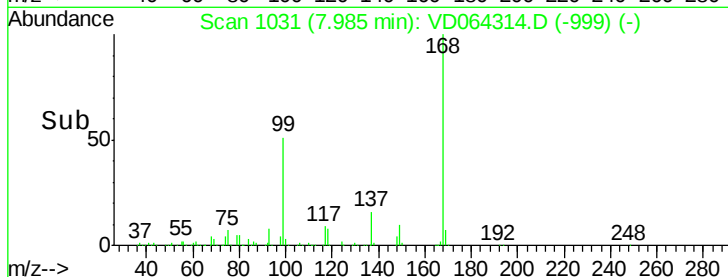
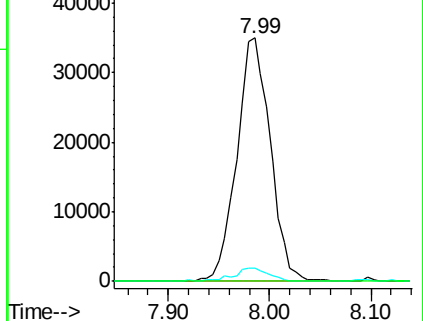
121 0.0 25.5 38.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 3.104 ug/l

RT: 9.36 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VD064314.D

Acq: 20 Nov 2019 15:47

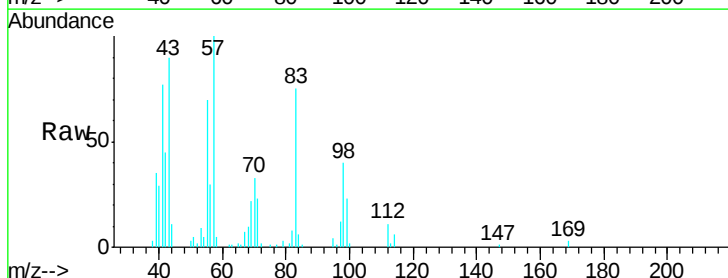
Tgt Ion: 83 Resp: 45514

Ion Ratio Lower Upper

83 100

55 93.6 61.7 92.5#

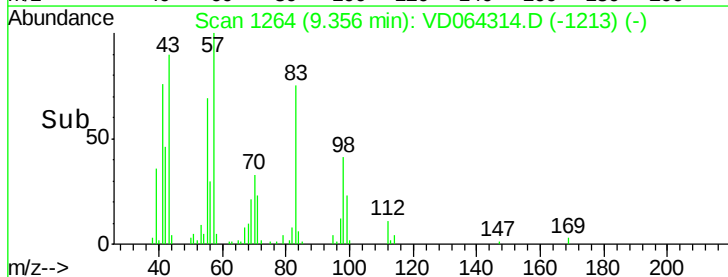
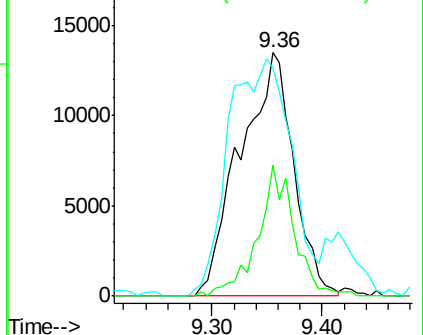
98 53.7 38.6 58.0

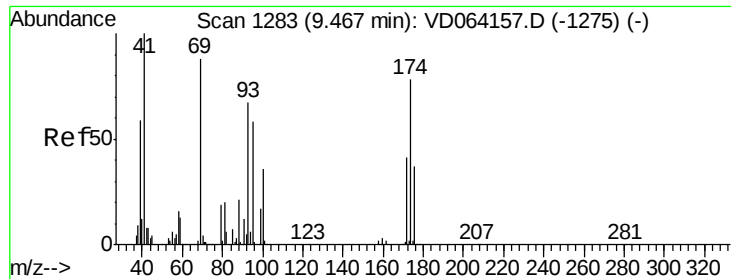


Abundance Ion 83.00 (82.70 to 83.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.00 (97.70 to 98.70): VDC

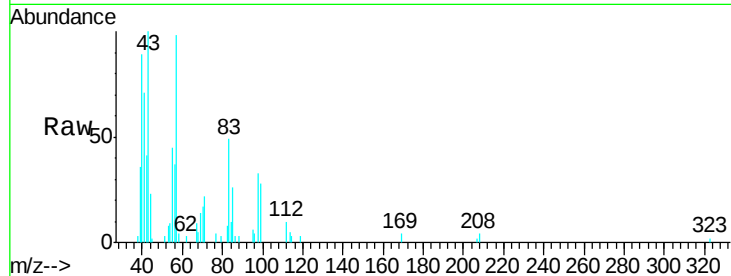




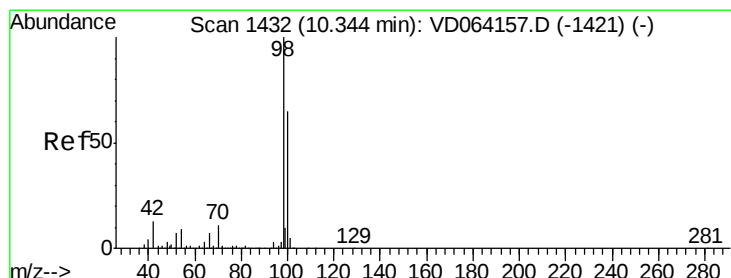
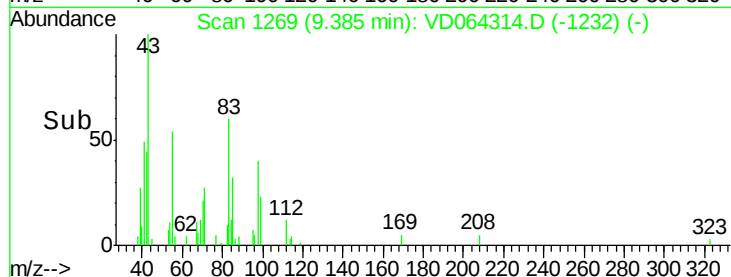
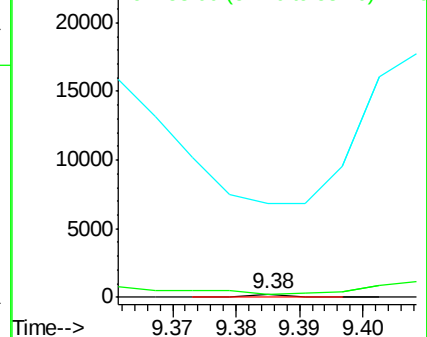
#49
 1,4-Dioxane
 Concen: 1.534 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.08 min
 Lab File: VD064314.D
 Acq: 20 Nov 2019 15:47

Instrument :
 MSVOA_D
 ClientSampleId :
 MW-1-(12-14)

Tgt Ion: 88 Resp: 76
 Ion Ratio Lower Upper
 88 100
 43 0.0 29.8 44.8#
 58 0.0 58.1 87.1#

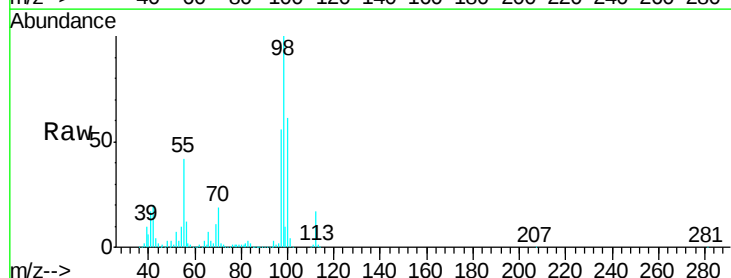


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC

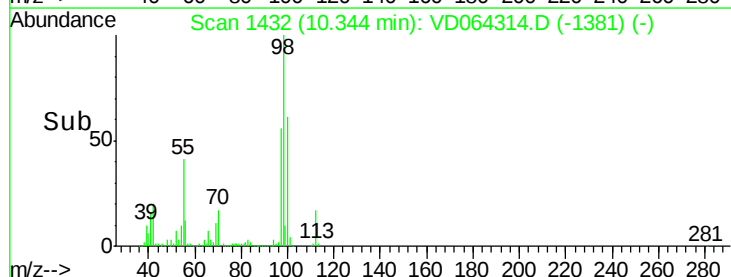
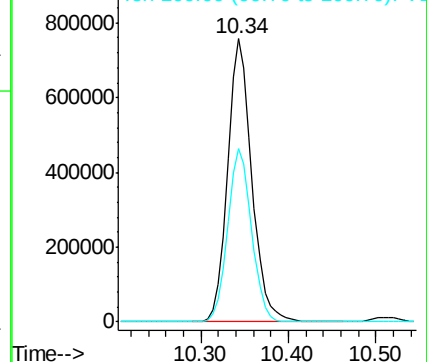


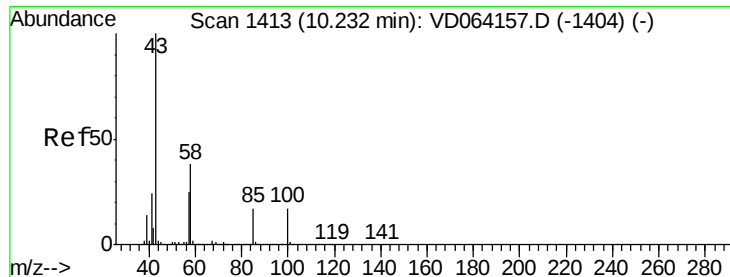
#50
 Toluene-d8
 Concen: 52.823 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.00 min
 Lab File: VD064314.D
 Acq: 20 Nov 2019 15:47

Tgt Ion: 98 Resp: 1436109
 Ion Ratio Lower Upper
 98 100
 100 60.2 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC
 Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 18.461 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD064314.D

Acq: 20 Nov 2019 15:47

Instrument :

MSVOA_D

ClientSampleId :

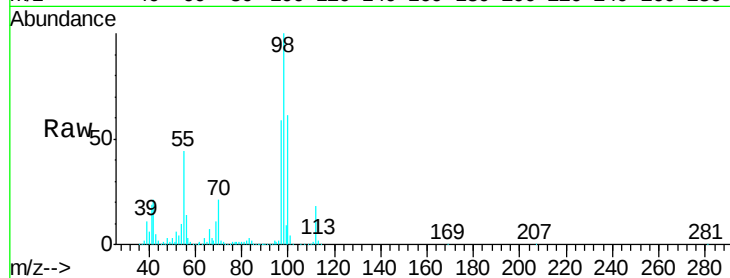
MW-1-(12-14)

Tgt Ion: 43 Resp: 89103

Ion Ratio Lower Upper

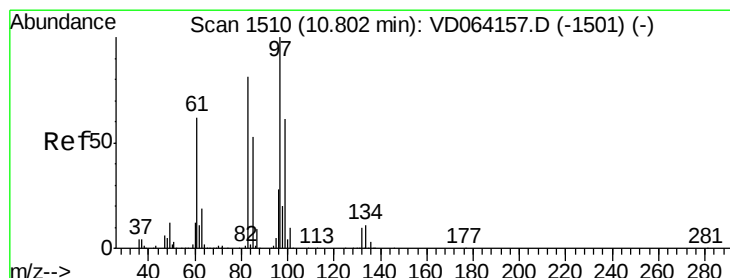
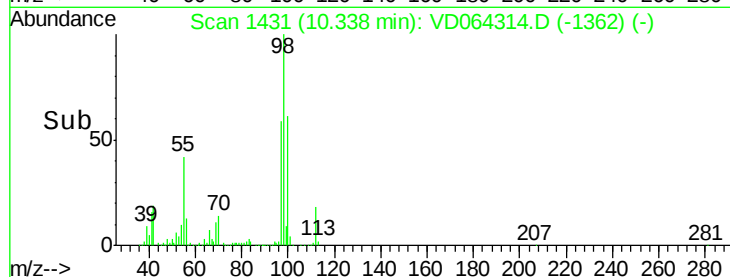
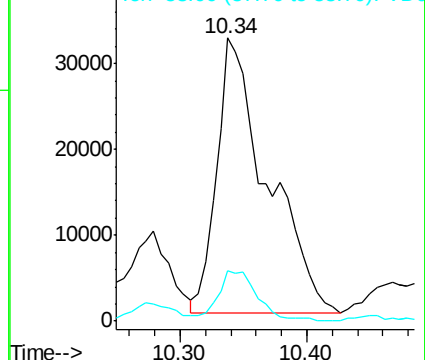
43 100

58 14.4 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#55

1,1,2-Trichloroethane

Concen: 137.845 ug/l

RT: 10.78 min Scan# 1507

Delta R.T. -0.02 min

Lab File: VD064314.D

Acq: 20 Nov 2019 15:47

Tgt Ion: 97 Resp: 771637

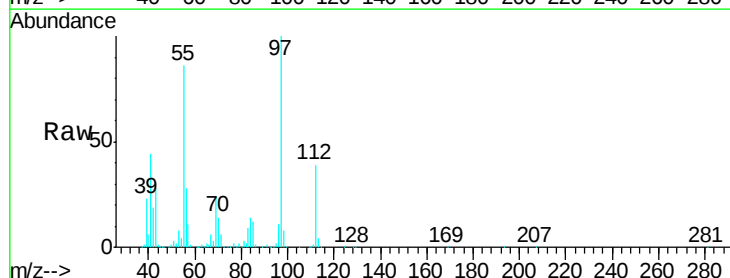
Ion Ratio Lower Upper

97 100

83 8.3 65.1 97.7#

85 11.9 42.0 63.0#

99 0.1 48.9 73.3#

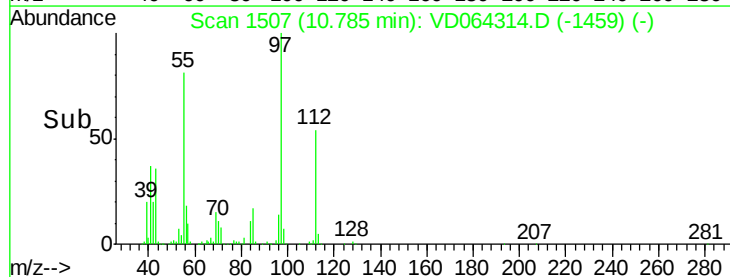
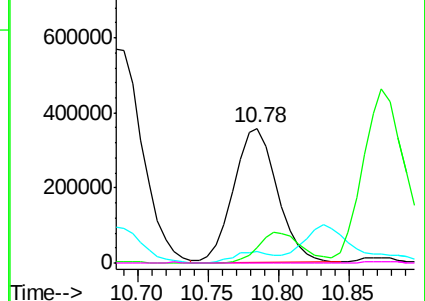


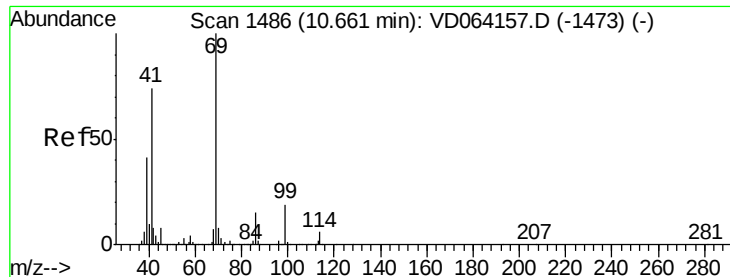
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC





#56

Ethyl methacrylate

Concen: 40.348 ug/l

RT: 10.64 min Scan# 1483

Delta R.T. -0.02 min

Lab File: VD064314.D

Acq: 20 Nov 2019 15:47

Instrument :

MSVOA_D

ClientSampleId :

MW-1-(12-14)

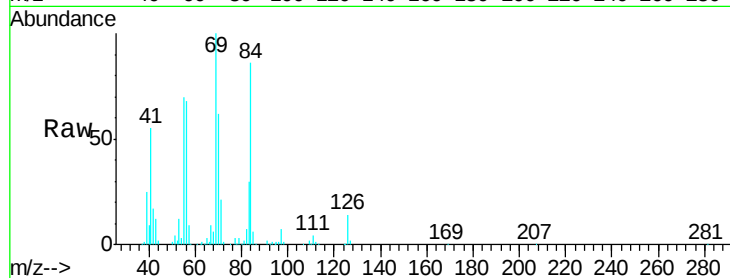
Tgt Ion: 69 Resp: 315956

Ion Ratio Lower Upper

69 100

41 0.0 57.9 86.9#

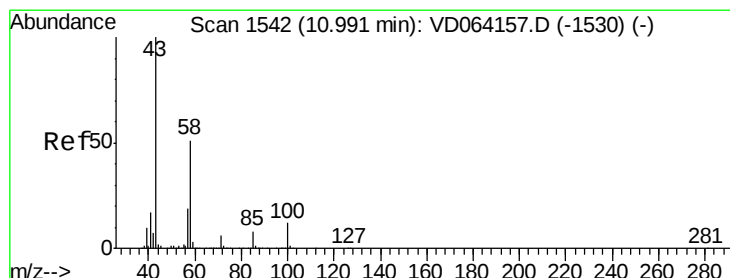
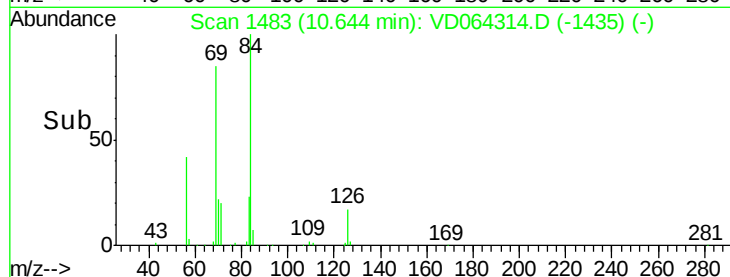
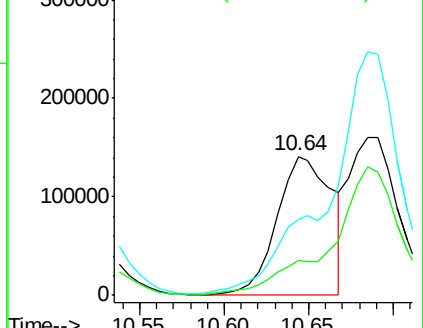
39 0.0 29.0 43.4#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#59

2-Hexanone

Concen: 1667.243 ug/l

RT: 10.96 min Scan# 1537

Delta R.T. -0.03 min

Lab File: VD064314.D

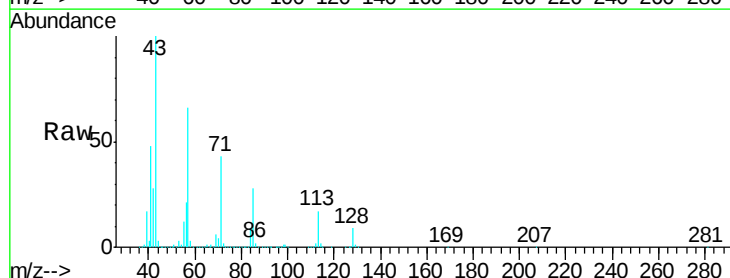
Acq: 20 Nov 2019 15:47

Tgt Ion: 43 Resp: 5725002

Ion Ratio Lower Upper

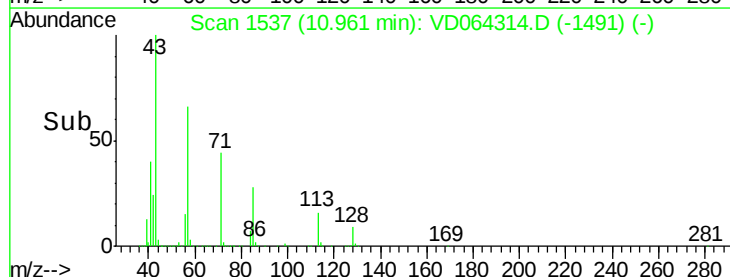
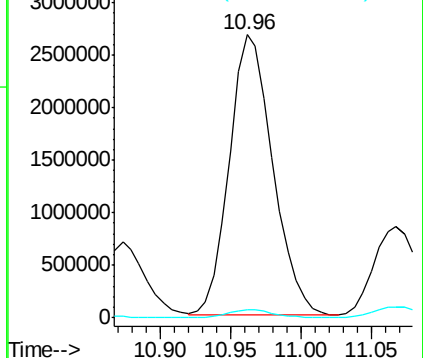
43 100

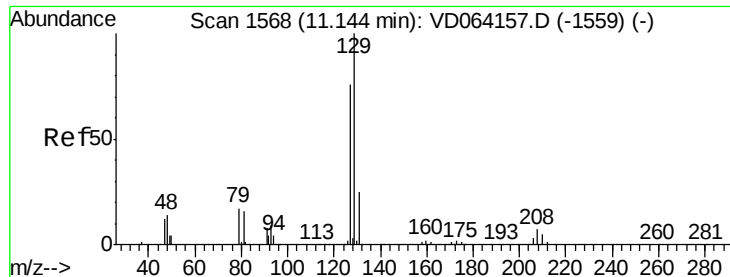
58 3.0 25.9 77.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#60

Dibromochloromethane

Concen: 2.209 ug/l

RT: 11.07 min Scan# 1555

Delta R.T. -0.08 min

Lab File: VD064314.D

Acq: 20 Nov 2019 15:47

Instrument :

MSVOA_D

ClientSampleId :

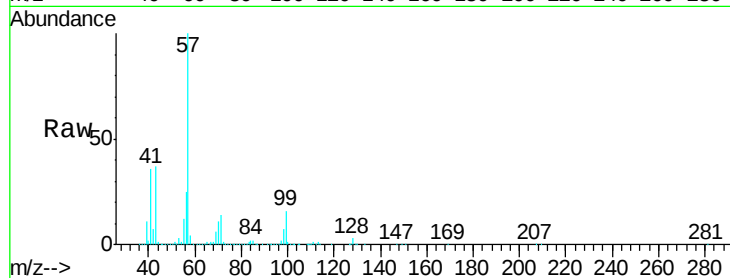
MW-1-(12-14)

Tgt Ion:129 Resp: 17257

Ion Ratio Lower Upper

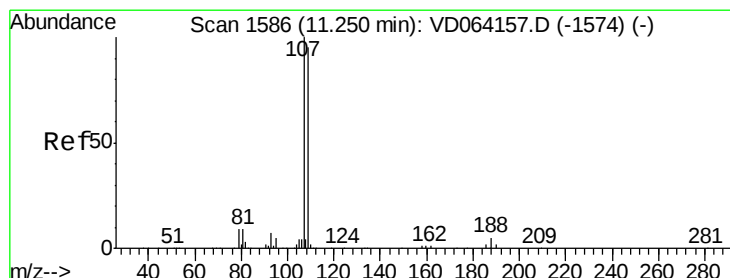
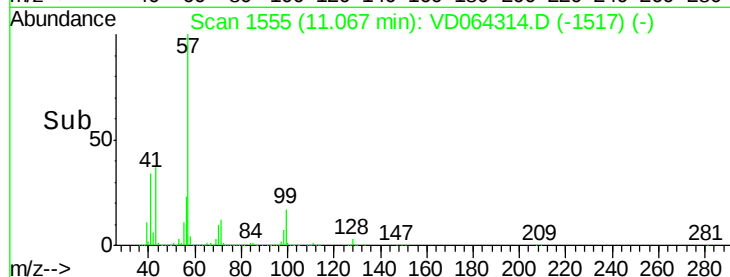
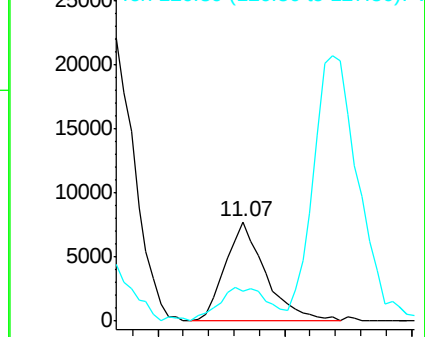
129 100

127 41.3 38.6 115.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 1.672 ug/l

RT: 11.26 min Scan# 1588

Delta R.T. 0.01 min

Lab File: VD064314.D

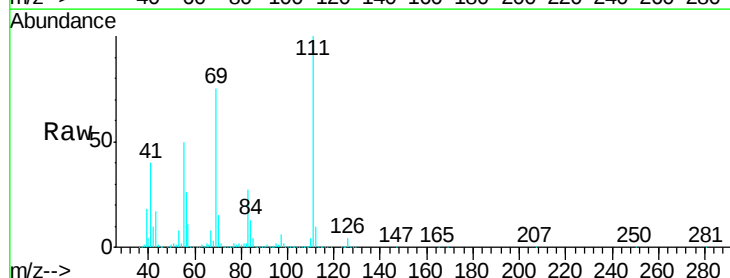
Acq: 20 Nov 2019 15:47

Tgt Ion:107 Resp: 9377

Ion Ratio Lower Upper

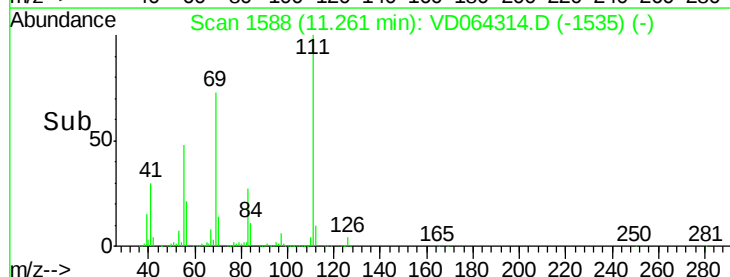
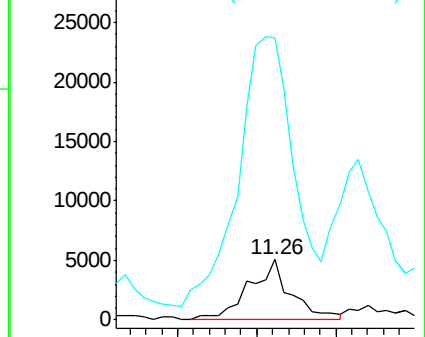
107 100

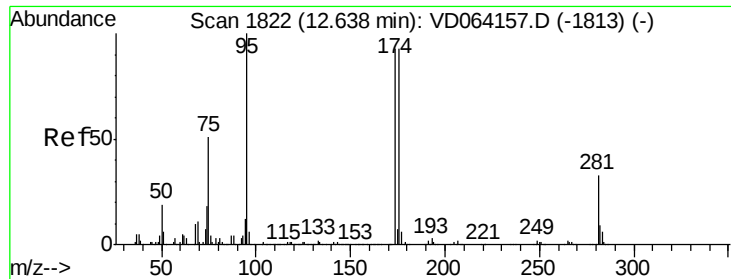
109 587.8 75.1 112.7#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

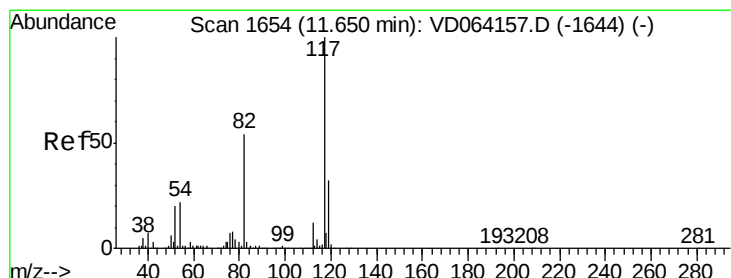
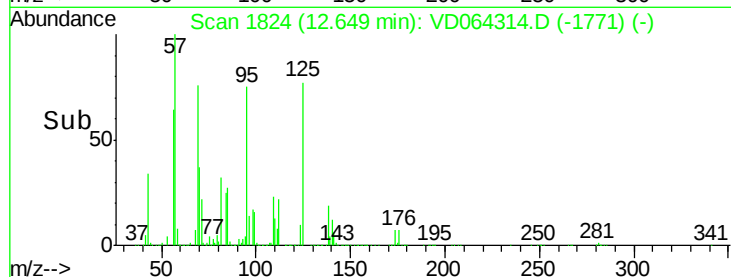
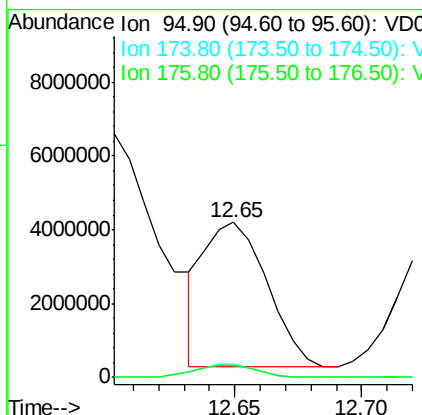
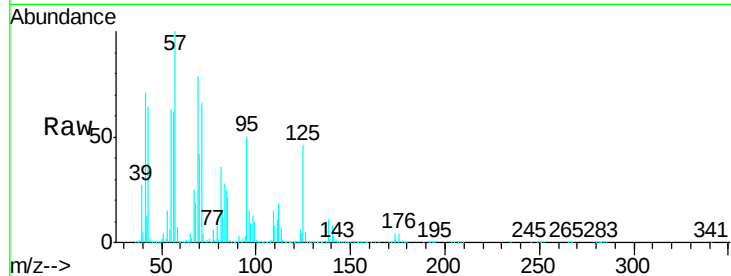




#62
4-Bromofluorobenzene
Concen: 718.798 ug/l
RT: 12.65 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VD064314.D
Acq: 20 Nov 2019 15:47

Instrument :
MSVOA_D
ClientSampleId :
MW-1-(12-14)

Tgt Ion: 95 Resp: 6767527
Ion Ratio Lower Upper
95 100
174 8.9 0.0 183.6
176 8.7 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064314.D
Acq: 20 Nov 2019 15:47

Tgt Ion: 117 Resp: 1024000
Ion Ratio Lower Upper
117 100
82 33.9 42.8 64.2#
119 32.0 25.6 38.4

