

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD112019\
 Data File : VD064309.D
 Acq On : 20 Nov 2019 13:09
 Operator : VA/SY
 Sample : K5818-03
 Misc : 5.09G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 40180RE

Quant Time: Nov 20 13:29:25 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	399060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	674197	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	205349	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	26152	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	272186	82.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	165.86%	
35) Dibromofluoromethane	7.92	113	263281	68.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	136.06%	
50) Toluene-d8	10.34	98	431659	29.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	59.14%	
62) 4-Bromofluorobenzene	12.64	95	56352	11.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.30%	

Target Compounds

					Qvalue
10) Methyl Iodide	4.30	142	2119	2.538 ug/l #	59
11) Tert butyl alcohol	5.25	59	58388	254.707 ug/l	100
13) Acrolein	3.94	56	1370	7.064 ug/l #	15
14) Allyl chloride	4.66	41	21904	3.695 ug/l #	29
15) Acrylonitrile	5.43	53	2106	2.919 ug/l #	17
16) Acetone	4.17	43	264157	339.745 ug/l	97
17) Carbon Disulfide	4.40	76	15546	1.489 ug/l	99
20) Methylene Chloride	4.96	84	14848	3.781 ug/l	89
25) 2-Butanone	7.22	43	48925	48.705 ug/l	99
29) Tetrahydrofuran	7.58	42	4297	7.120 ug/l	91
30) Chloroform	7.71	83	27508	4.210 ug/l	98
31) Cyclohexane	7.99	56	122946	19.086 ug/l	97
37) Ethyl Acetate	7.29	43	4546	1.733 ug/l #	72
39) Methylcyclohexane	9.36	83	299248	38.008 ug/l	91
40) Benzene	8.35	78	111924	6.582 ug/l	96
43) Isopropyl Acetate	8.45	43	13293	2.459 ug/l #	58
48) Methyl methacrylate	9.46	41	434553	164.428 ug/l	95
49) 1,4-Dioxane	9.31	88	67	2.518 ug/l #	1
51) 4-Methyl-2-Pentanone	10.23	43	163708	63.163 ug/l	100
52) Toluene	10.41	92	622063	55.630 ug/l	99
55) 1,1,2-Trichloroethane	10.78	97	98632	32.811 ug/l #	22
56) Ethyl methacrylate	10.64	69	10096	2.401 ug/l #	22
59) 2-Hexanone	10.96	43	101573	55.085 ug/l #	30
64) Tetrachloroethene	10.88	164	2477	1.568 ug/l #	77
67) Ethyl Benzene	11.75	91	512422	67.841 ug/l	99
68) m/p-Xylenes	11.86	106	598844	206.841 ug/l	99
69) o-Xylene	12.18	106	232539	86.603 ug/l	97
70) Styrene	12.19	104	20461	4.365 ug/l #	1
73) Isopropylbenzene	12.48	105	120795	62.929 ug/l	99
74) N-amyl acetate	12.27	43	147927	326.337 ug/l #	57
75) 1,1,2,2-Tetrachloroethane	12.70	83	12368	42.760 ug/l #	26
76) 1,2,3-Trichloropropane	12.83	75	1605	7.619 ug/l #	100
77) Bromobenzene	12.77	156	1064	2.282 ug/l #	14
78) n-propylbenzene	12.83	91	282586	128.852 ug/l	99

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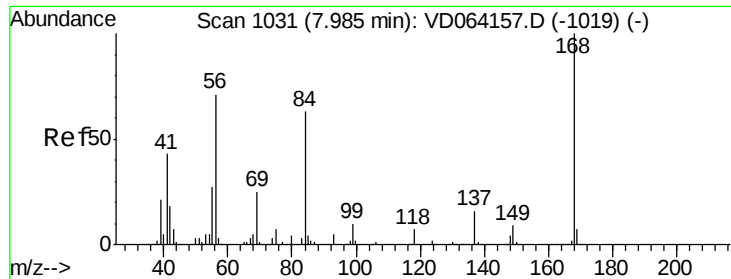
Instrument :
 MSVOA_D
 ClientSampleId :
 40180RE

Quant Time: Nov 20 13:29:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
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 Response via : Initial Calibration

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

79) 2-Chlorotoluene	12.89	91	71833	58.015	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.97	105	279904	177.458	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.49	75	1712	16.144	ug/l #	1
82) 4-Chlorotoluene	12.97	91	33147	25.666	ug/l #	52
83) tert-Butylbenzene	13.23	119	6503	4.676	ug/l	88
84) 1,2,4-Trimethylbenzene	13.27	105	845499	542.961	ug/l	99
85) sec-Butylbenzene	13.41	105	127169	68.077	ug/l	85
86) p-Isopropyltoluene	13.53	119	174129	98.051	ug/l	97
87) 1,3-Dichlorobenzene	13.52	146	2390	2.761	ug/l #	1
88) 1,4-Dichlorobenzene	13.60	146	2753	3.258	ug/l #	1
89) n-Butylbenzene	13.85	91	131971	82.254	ug/l #	71
90) Hexachloroethane	14.13	117	15271	46.529	ug/l #	10
91) 1,2-Dichlorobenzene	13.90	146	2068	2.822	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.53	75	624	12.066	ug/l #	50
93) 1,2,4-Trichlorobenzene	15.17	180	4152	7.346	ug/l #	1
94) Hexachlorobutadiene	15.27	225	1402	3.840	ug/l	83
95) Naphthalene	15.41	128	23455	25.315	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.61	180	2803	5.834	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

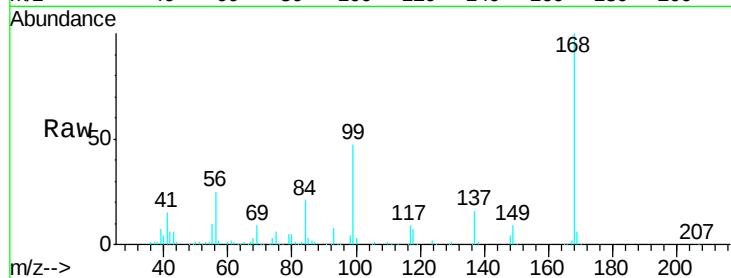
40180RE

Tgt Ion:168 Resp: 399060

Ion Ratio Lower Upper

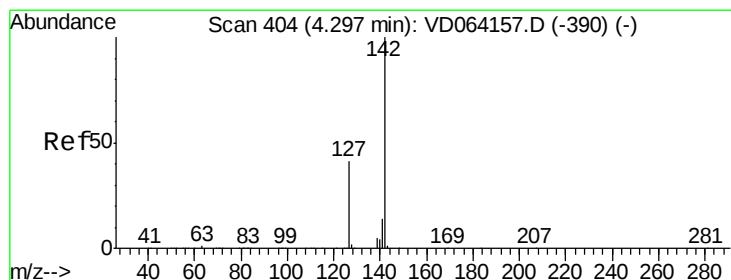
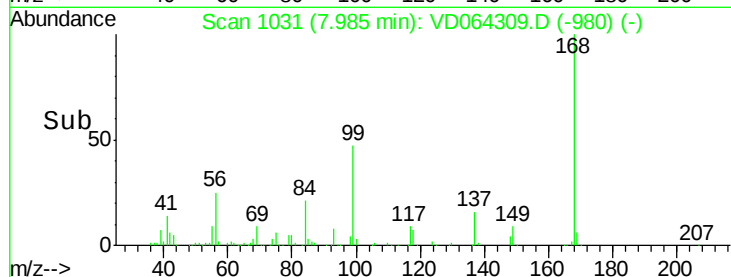
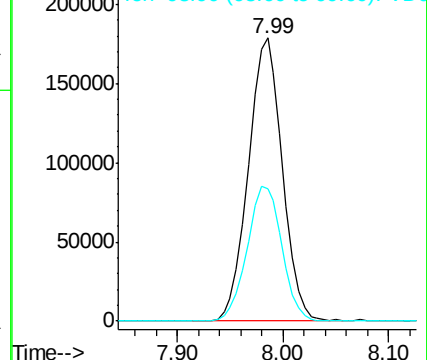
168 100

99 46.7 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V



#10

Methyl Iodide

Concen: 2.538 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

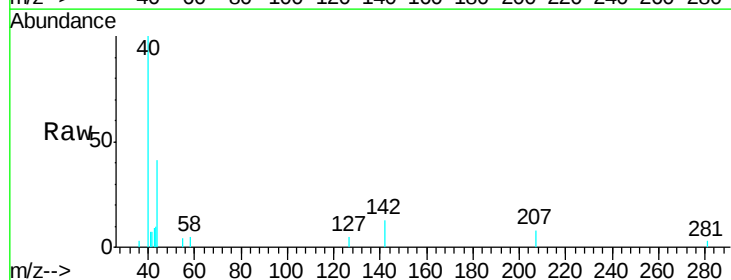
Tgt Ion:142 Resp: 2119

Ion Ratio Lower Upper

142 100

127 15.8 34.4 51.6#

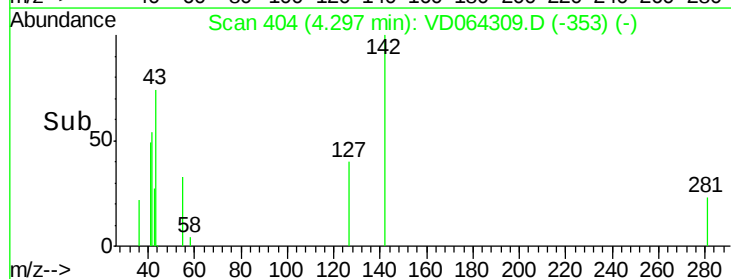
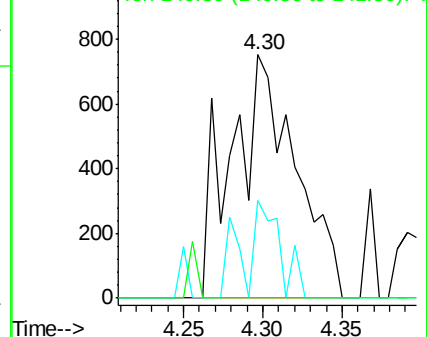
141 0.0 11.2 16.8#

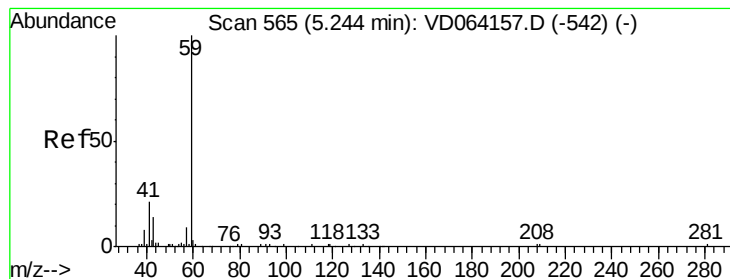


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



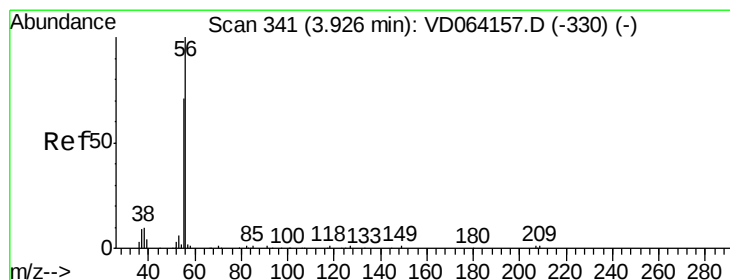
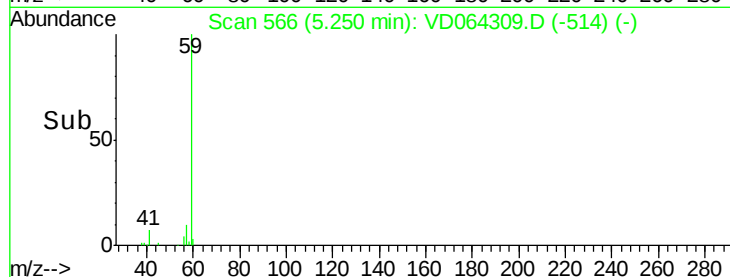
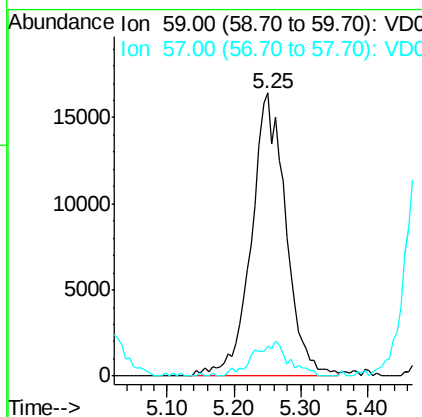
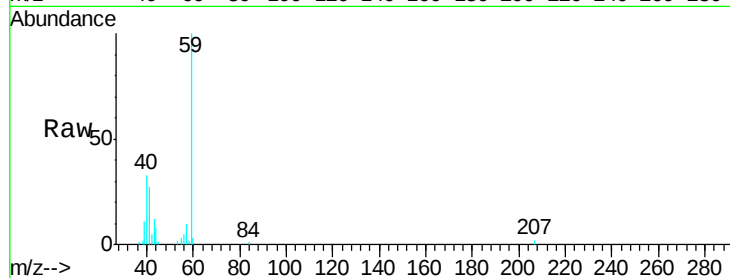


#11

Tert butyl alcohol
 Concen: 254.707 ug/l
 RT: 5.25 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

Instrument :
 MSVOA_D
 ClientSampleId :
 40180RE

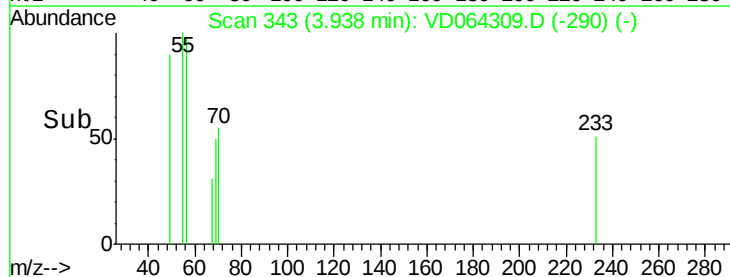
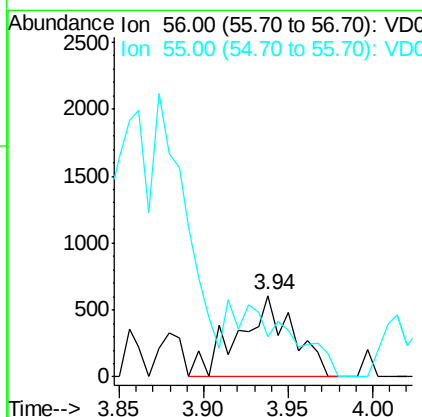
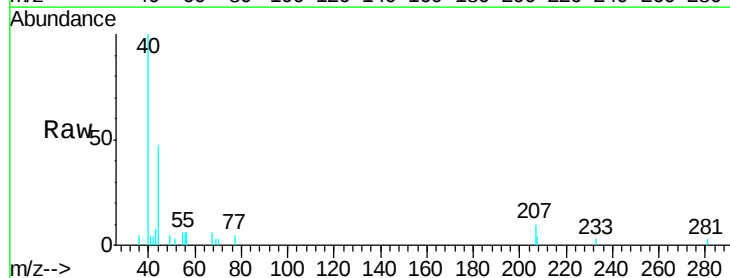
Tgt Ion: 59 Resp: 58388
 Ion Ratio Lower Upper
 59 100
 57 12.0 9.4 14.2

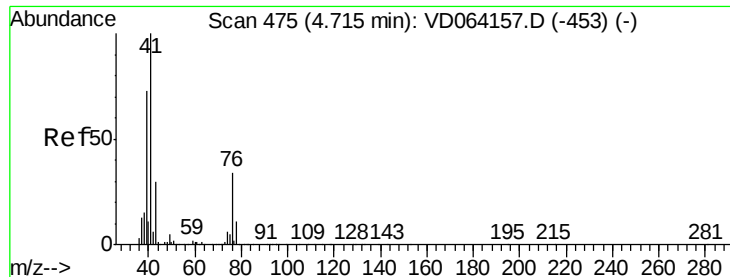


#13

Acrolein
 Concen: 7.064 ug/l
 RT: 3.94 min Scan# 343
 Delta R.T. 0.01 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

Tgt Ion: 56 Resp: 1370
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.1 84.1#





#14

Allyl chloride

Concen: 3.695 ug/l

RT: 4.66 min Scan# 466

Delta R.T. -0.05 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

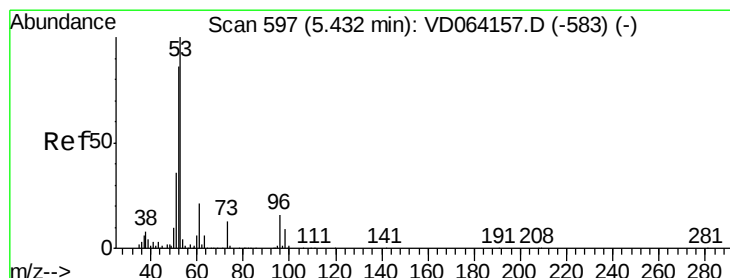
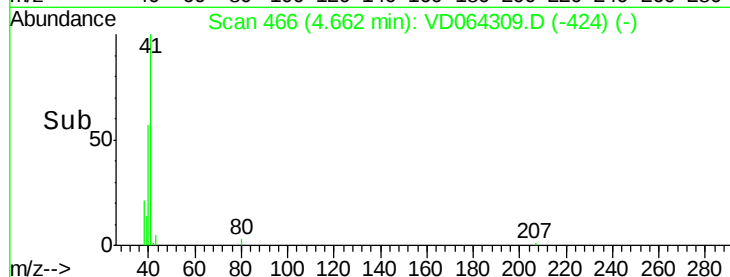
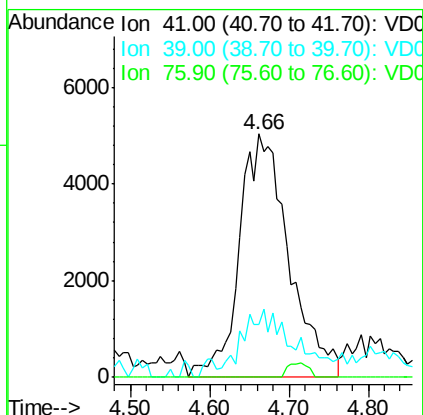
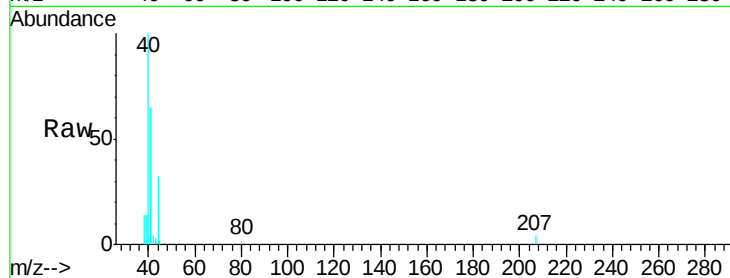
Instrument :

MSVOA_D

ClientSampleId :

40180RE

Tgt Ion:	41	Resp:	21904
Ion	Ratio	Lower	Upper
41	100		
39	8.1	57.5	86.3#
76	0.0	26.8	40.2#



#15

Acrylonitrile

Concen: 2.919 ug/l

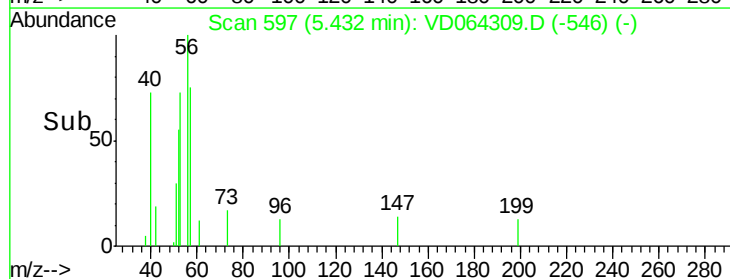
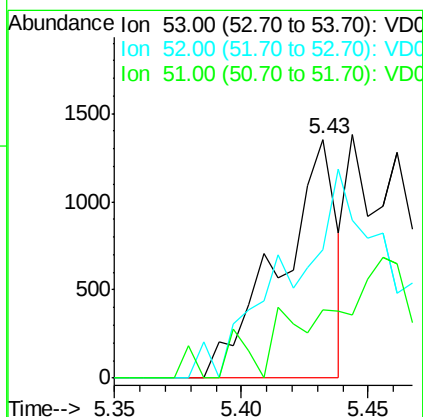
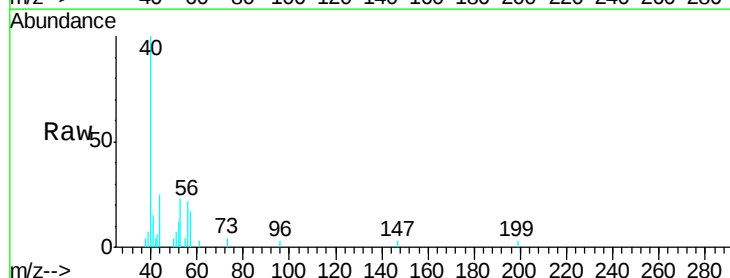
RT: 5.43 min Scan# 597

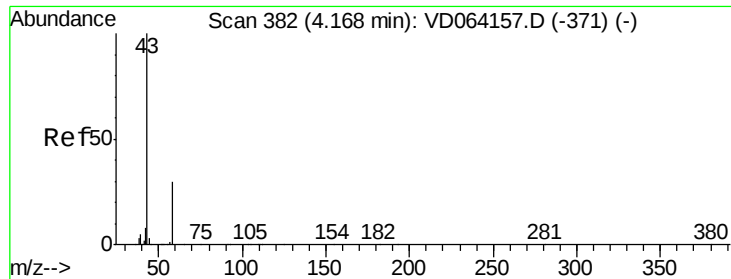
Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Tgt Ion:	53	Resp:	2106
Ion	Ratio	Lower	Upper
53	100		
52	166.0	66.7	100.1#
51	0.0	30.6	46.0#





#16

Acetone

Concen: 339.745 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

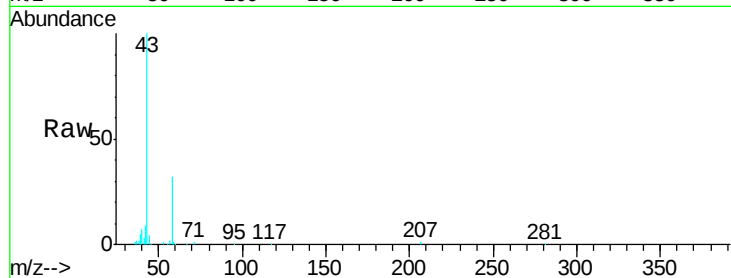
40180RE

Tgt Ion: 43 Resp: 264157

Ion Ratio Lower Upper

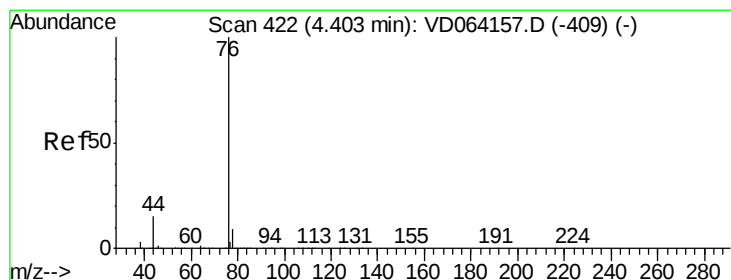
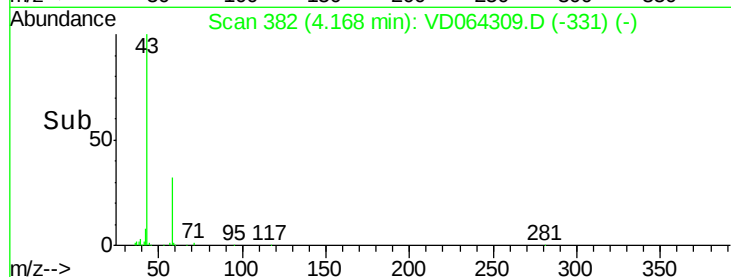
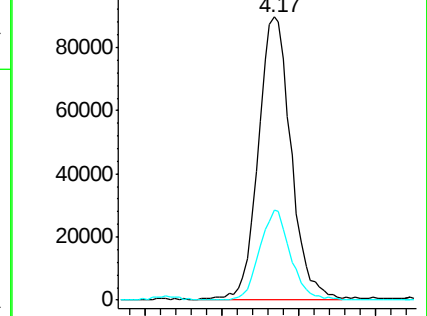
43 100

58 31.7 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#17

Carbon Disulfide

Concen: 1.489 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.00 min

Lab File: VD064309.D

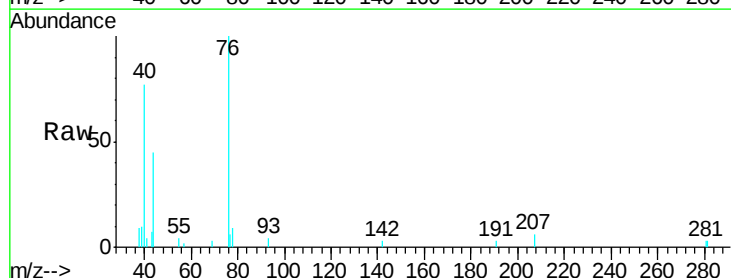
Acq: 20 Nov 2019 13:09

Tgt Ion: 76 Resp: 15546

Ion Ratio Lower Upper

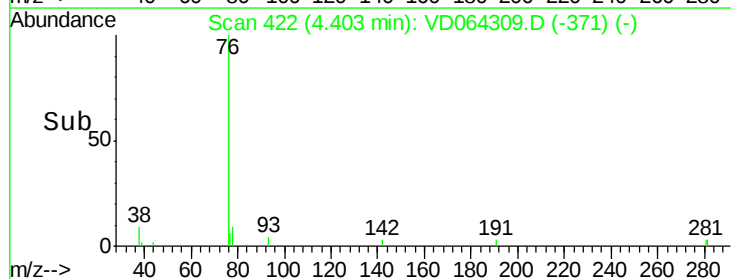
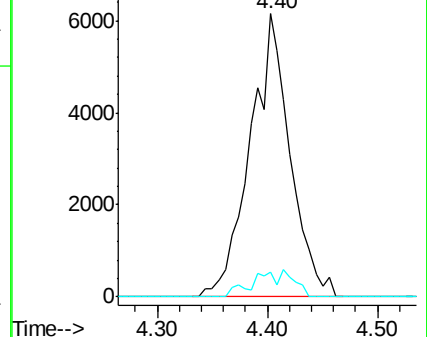
76 100

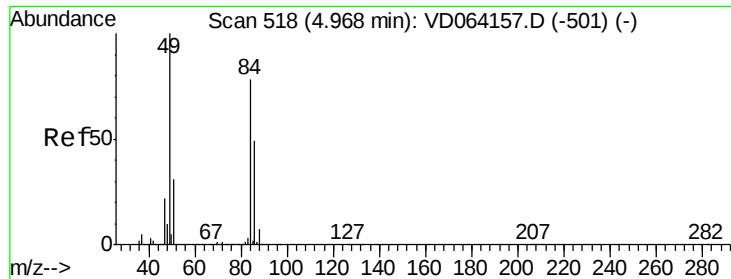
78 8.6 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

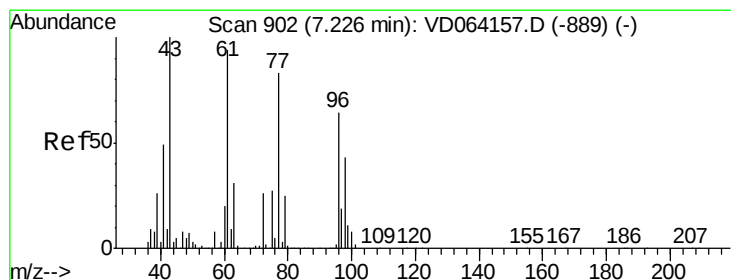
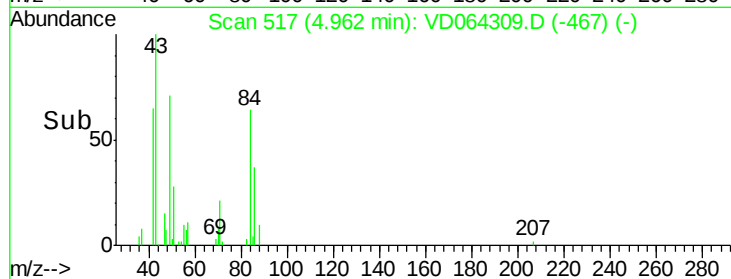
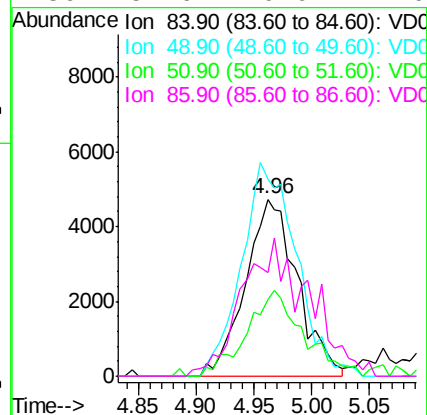
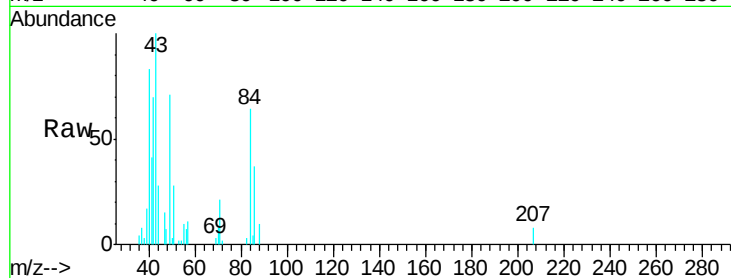




#20
Methylene Chloride
Concen: 3.781 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

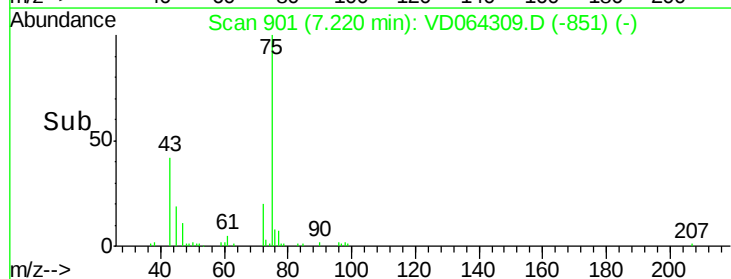
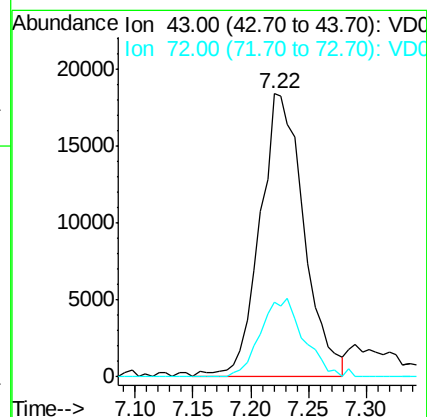
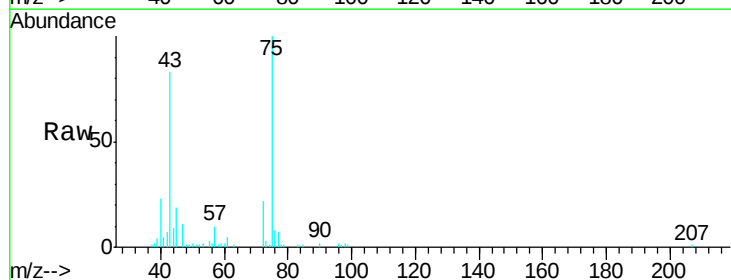
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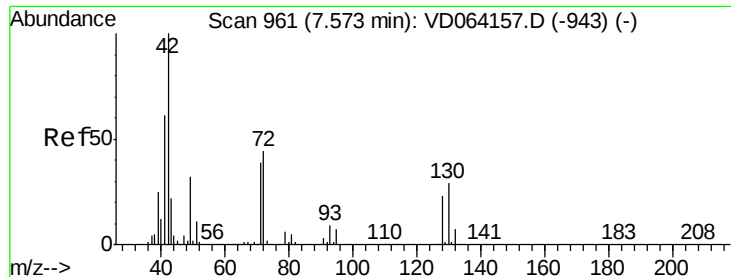
Tgt Ion:	84	Resp:	14848
Ion	Ratio	Lower	Upper
84	100		
49	111.4	102.1	153.1
51	43.2	32.2	48.2
86	54.6	49.9	74.9



#25
2-Butanone
Concen: 48.705 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion:	43	Resp:	48925
Ion	Ratio	Lower	Upper
43	100		
72	26.4	20.6	30.8

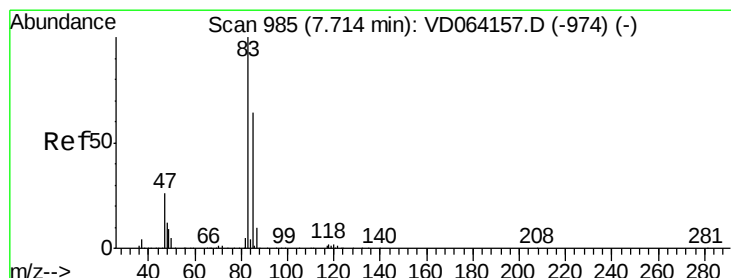
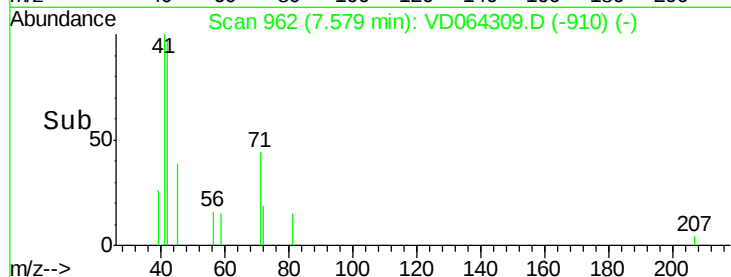
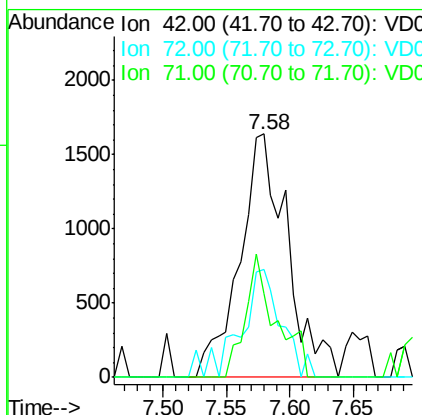
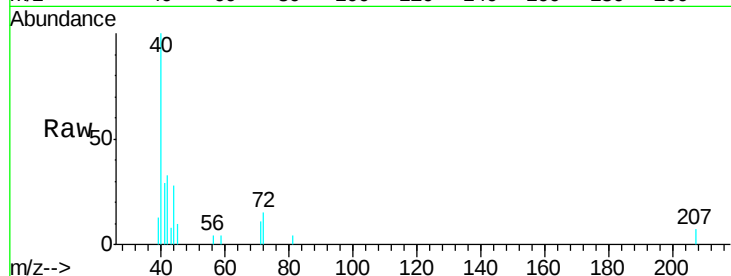




#29
Tetrahydrofuran
Concen: 7.120 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

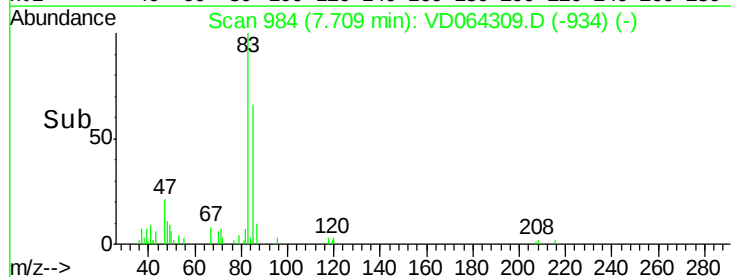
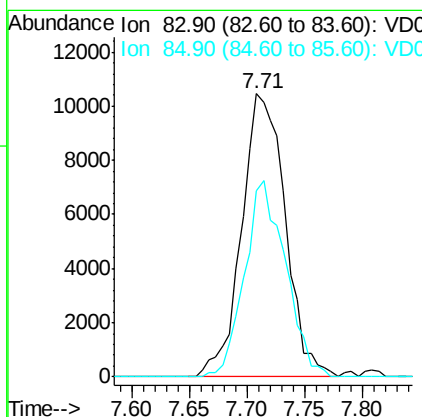
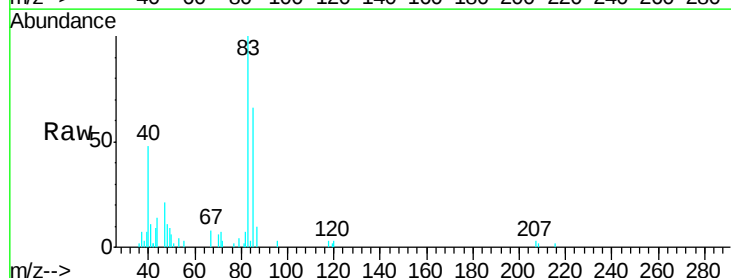
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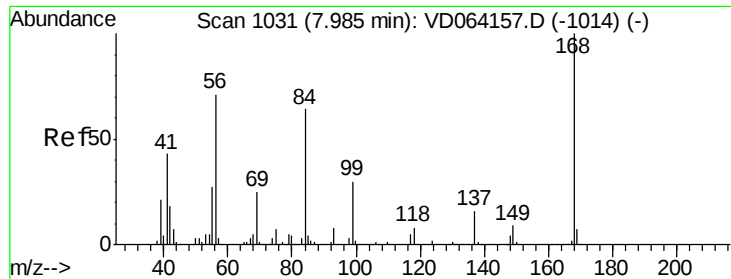
Tgt Ion: 42 Resp: 4297
Ion Ratio Lower Upper
42 100
72 36.9 33.4 50.2
71 32.4 31.0 46.4



#30
Chloroform
Concen: 4.210 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion: 83 Resp: 27508
Ion Ratio Lower Upper
83 100
85 65.5 51.4 77.0

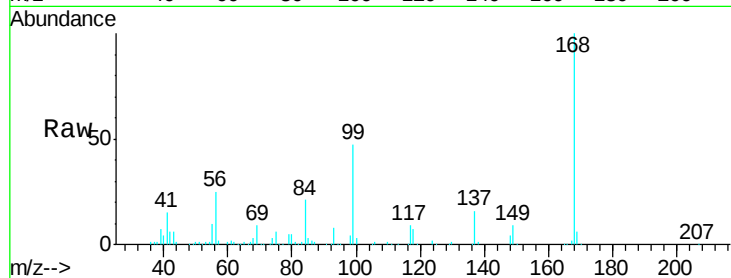




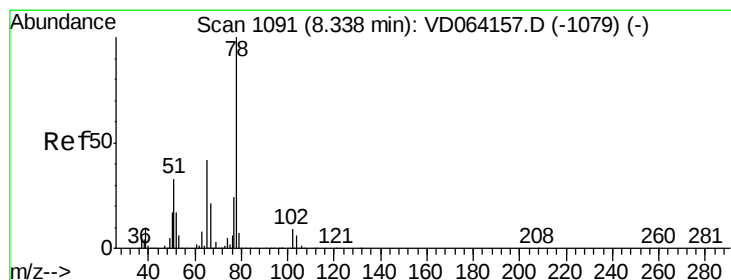
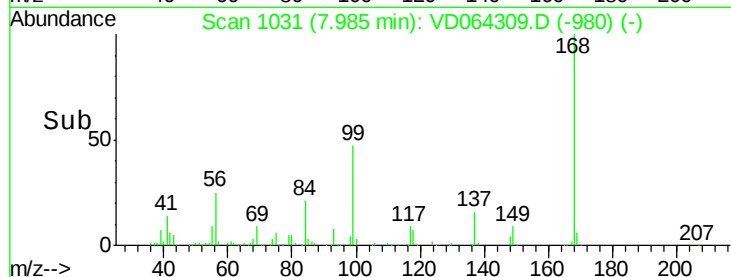
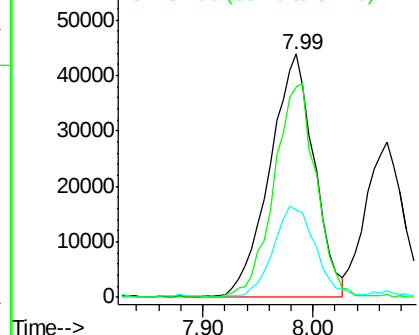
#31
Cyclohexane
Concen: 19.086 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
40180RE

Tgt Ion: 56 Resp: 122946
Ion Ratio Lower Upper
56 100
69 35.3 28.2 42.4
84 86.3 71.8 107.6

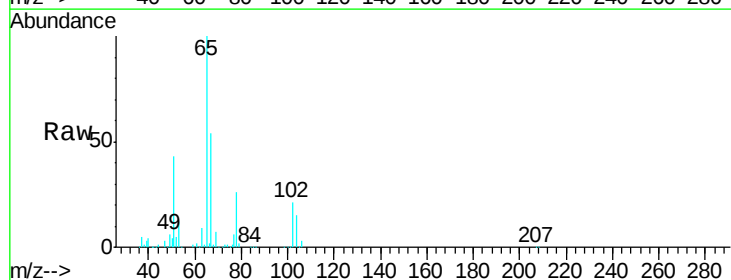


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

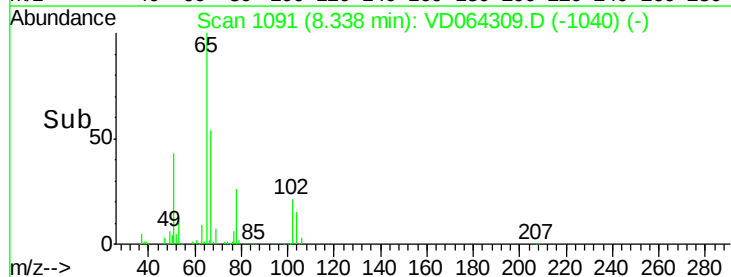
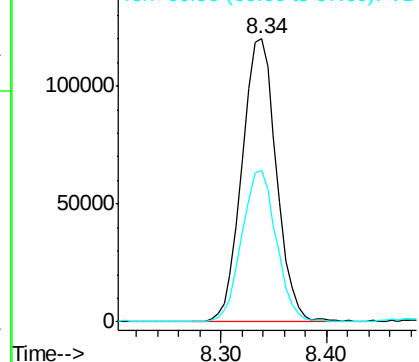


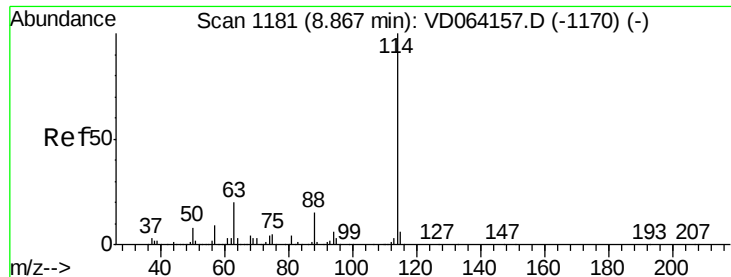
#33
1,2-Dichloroethane-d4
Concen: 82.932 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion: 65 Resp: 272186
Ion Ratio Lower Upper
65 100
67 53.7 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

40180RE

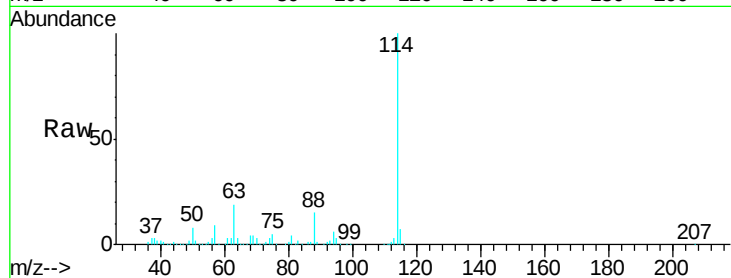
Tgt Ion:114 Resp: 674197

Ion Ratio Lower Upper

114 100

63 18.9 0.0 40.0

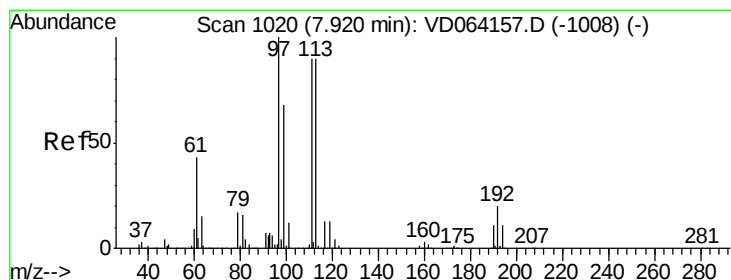
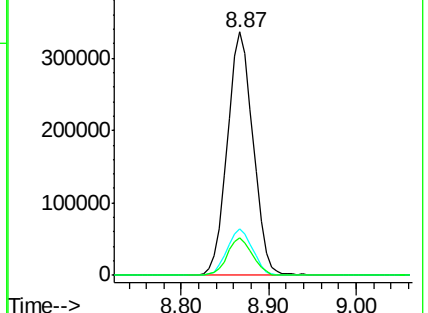
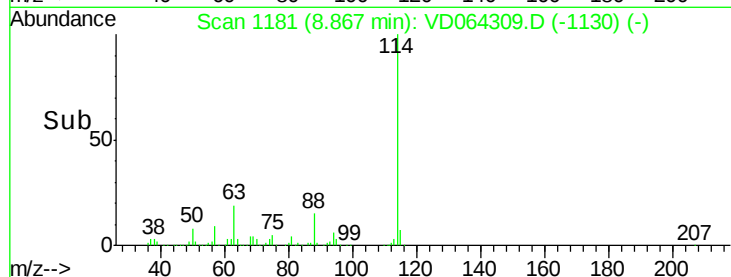
88 15.3 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 68.031 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

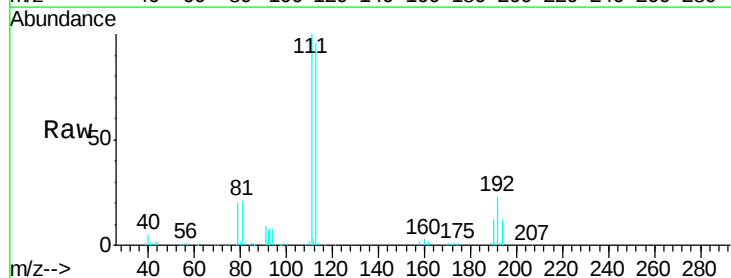
Tgt Ion:113 Resp: 263281

Ion Ratio Lower Upper

113 100

111 102.0 81.5 122.3

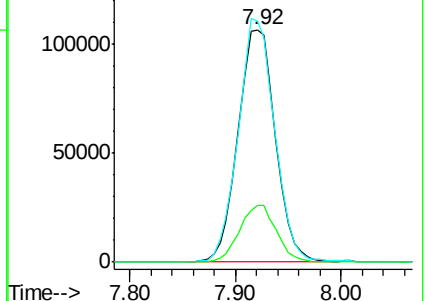
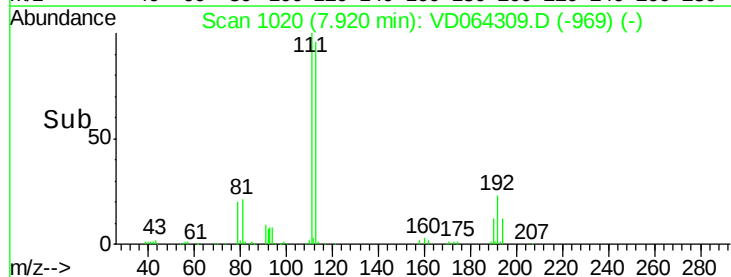
192 23.8 18.8 28.2

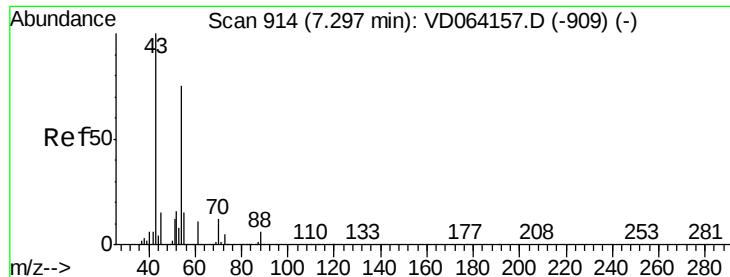


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

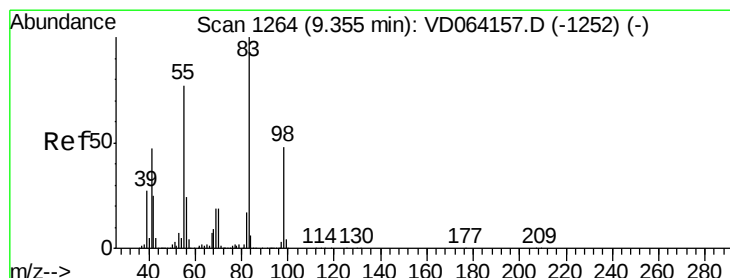
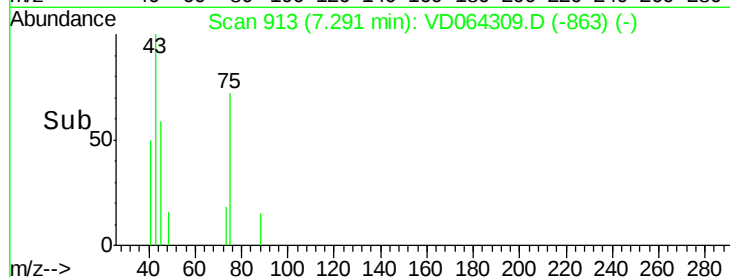
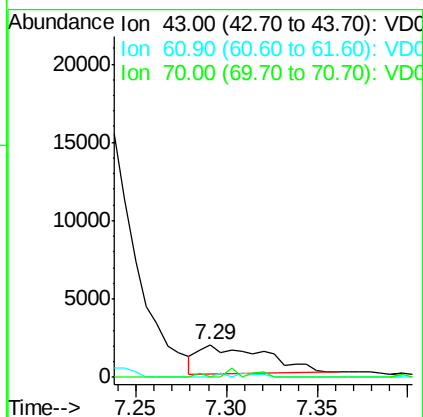
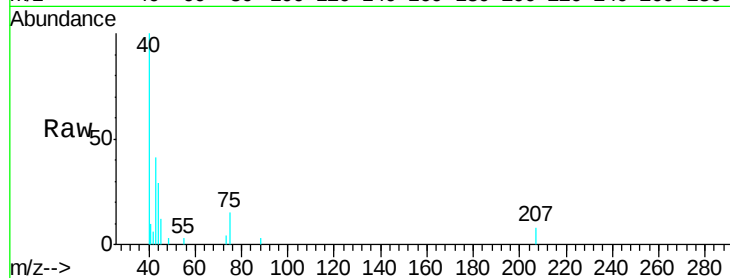




#37
Ethyl Acetate
Concen: 1.733 ug/l
RT: 7.29 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

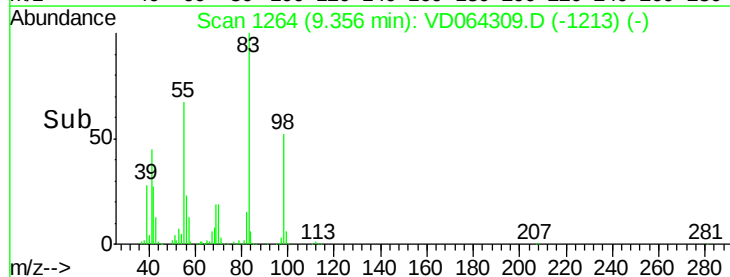
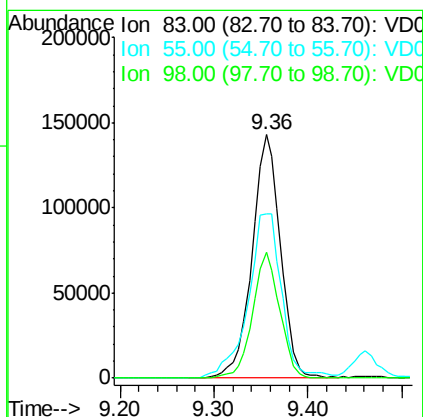
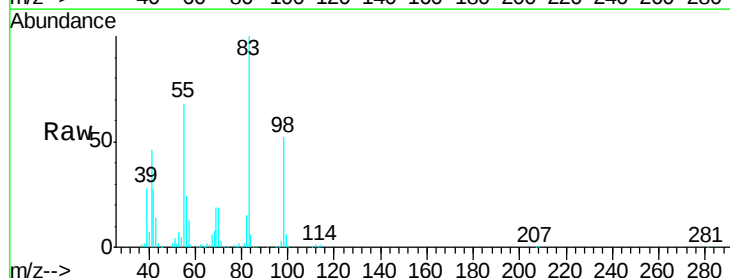
Instrument :
MSVOA_D
ClientSampleId :
40180RE

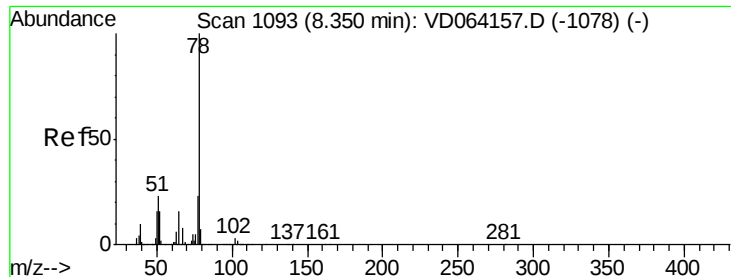
Tgt Ion: 43 Resp: 4546
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.2#
70 2.0 8.5 12.7#



#39
Methylcyclohexane
Concen: 38.008 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion: 83 Resp: 299248
Ion Ratio Lower Upper
83 100
55 67.3 61.7 92.5
98 51.6 38.6 58.0

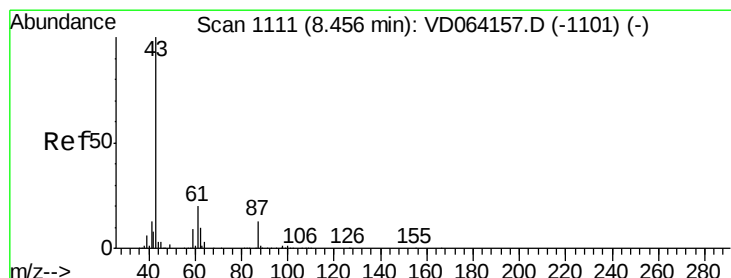
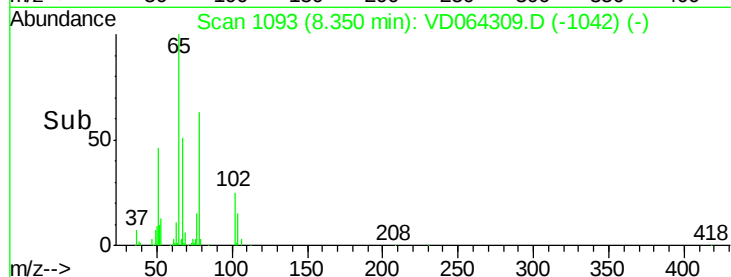
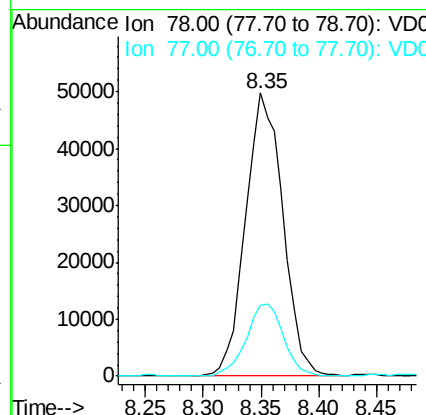
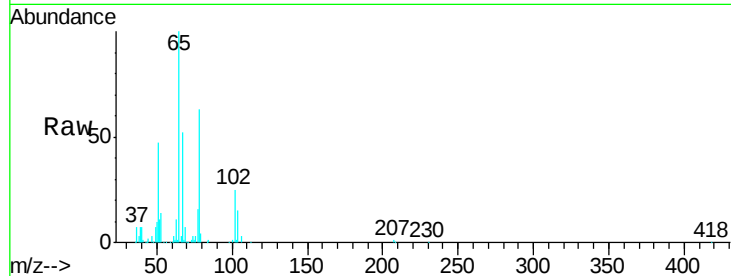




#40
Benzene
Concen: 6.582 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

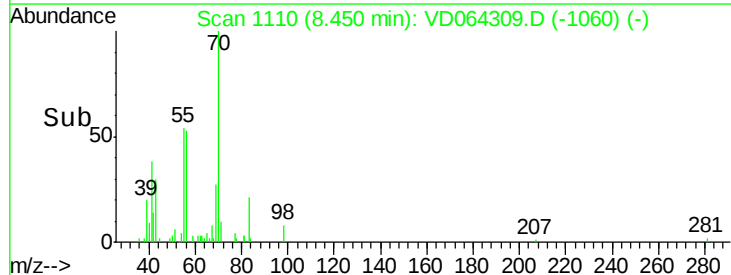
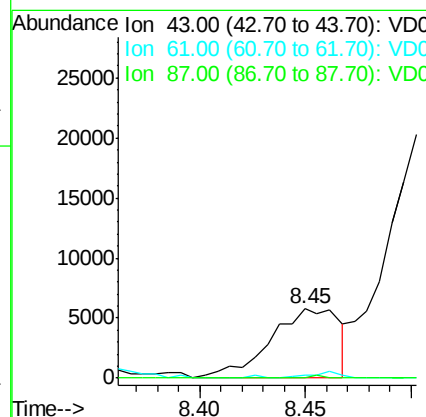
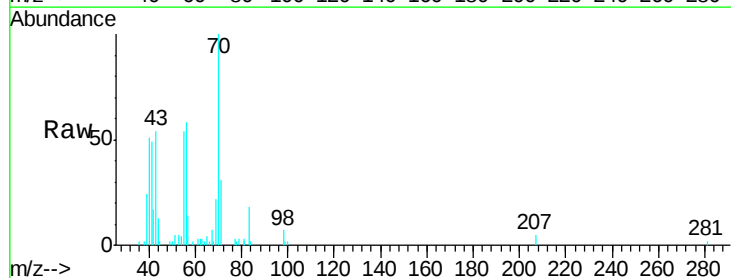
Instrument :
MSVOA_D
ClientSampleId :
40180RE

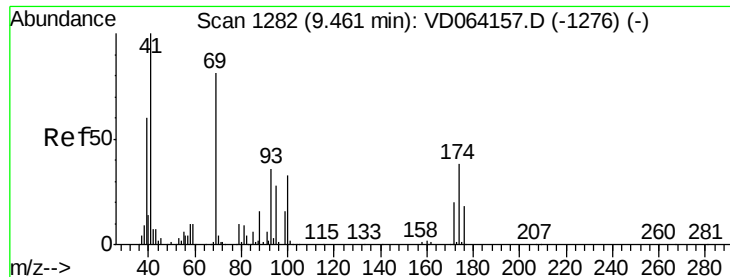
Tgt Ion: 78 Resp: 111924
Ion Ratio Lower Upper
78 100
77 25.2 18.6 28.0



#43
Isopropyl Acetate
Concen: 2.459 ug/l
RT: 8.45 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion: 43 Resp: 13293
Ion Ratio Lower Upper
43 100
61 3.8 22.9 34.3#
87 0.7 10.2 15.2#

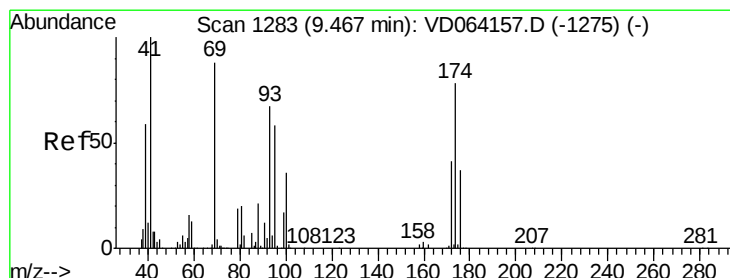
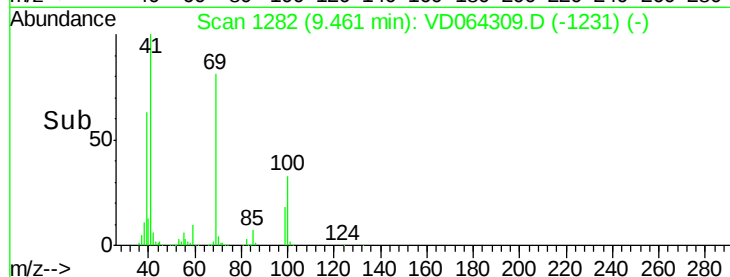
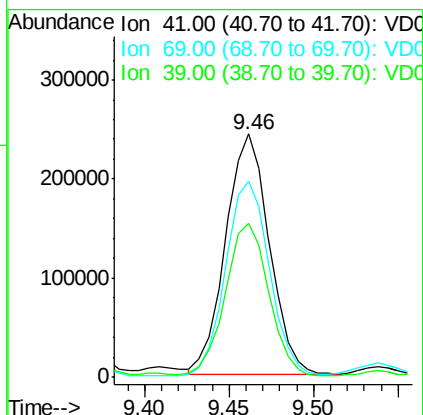
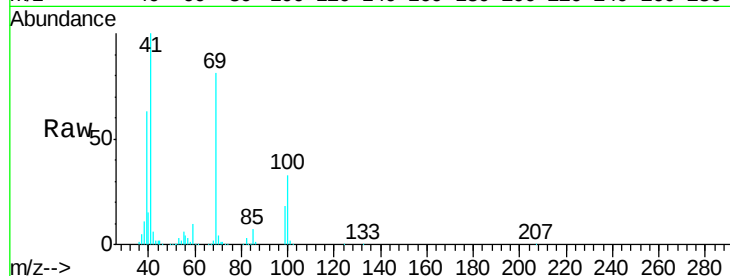




#48
Methyl methacrylate
Concen: 164.428 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

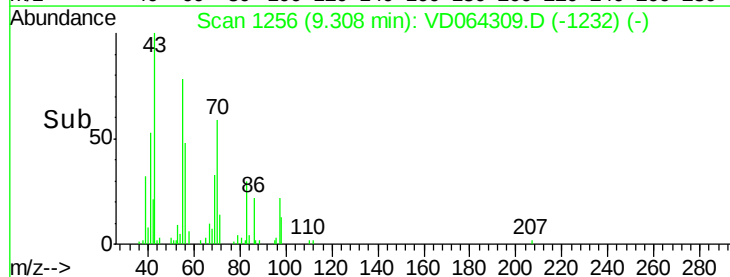
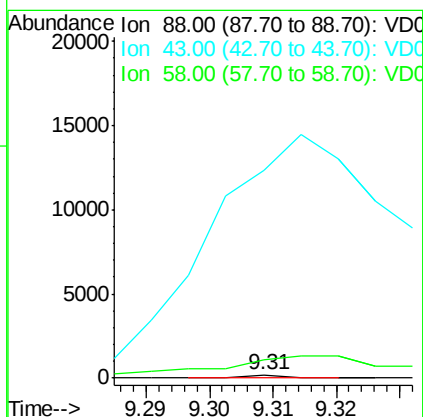
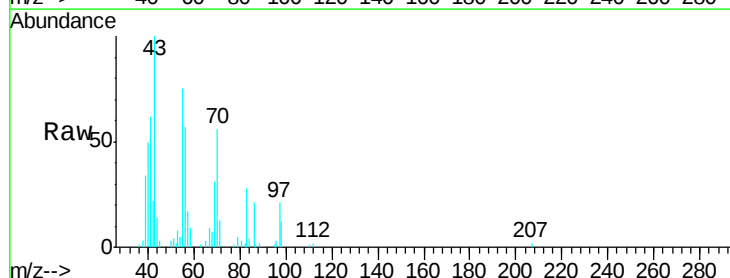
Instrument :
MSVOA_D
ClientSampleId :
40180RE

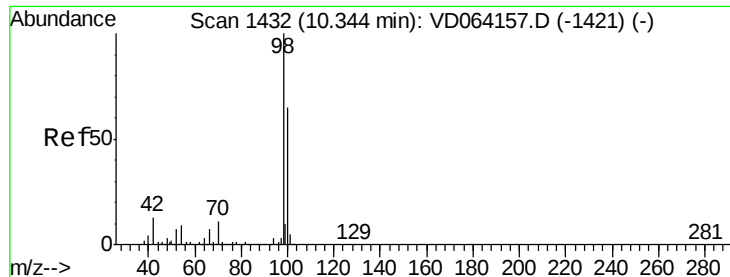
Tgt Ion: 41 Resp: 434553
Ion Ratio Lower Upper
41 100
69 83.4 64.6 97.0
39 65.3 48.2 72.2



#49
1,4-Dioxane
Concen: 2.518 ug/l
RT: 9.31 min Scan# 1256
Delta R.T. -0.16 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 42961.2 29.8 44.8#
58 3907.5 58.1 87.1#

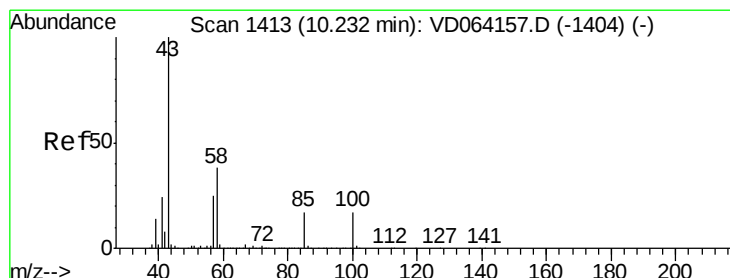
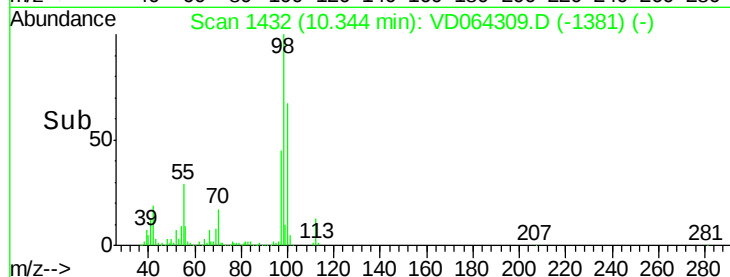
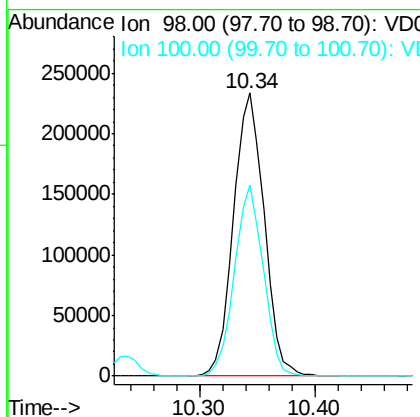
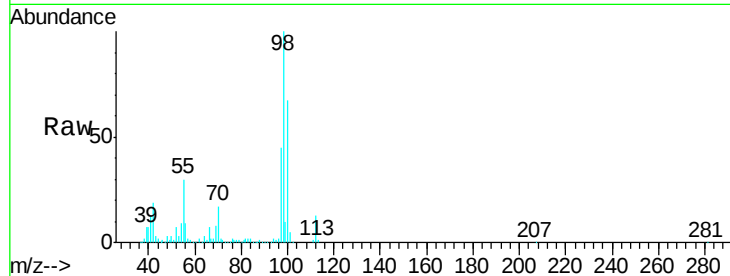




#50
Toluene-d8
Concen: 29.567 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

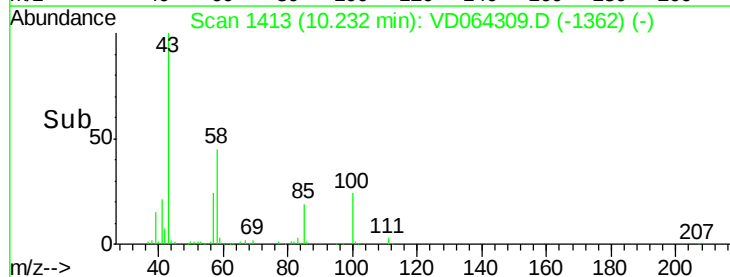
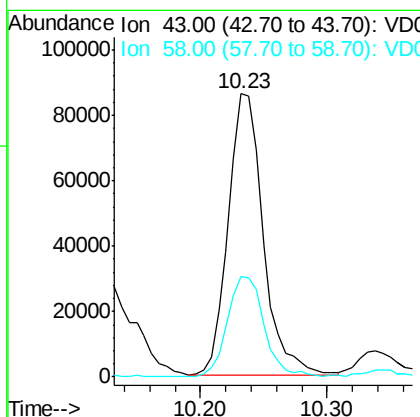
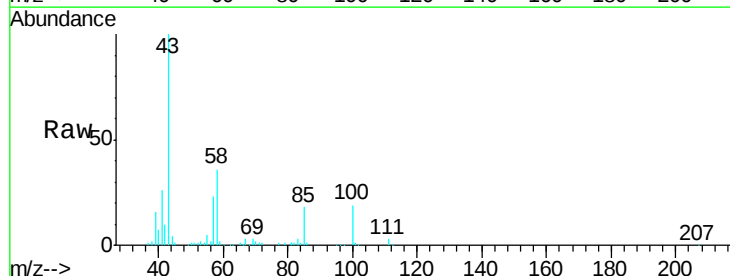
Instrument :
MSVOA_D
ClientSampleId :
40180RE

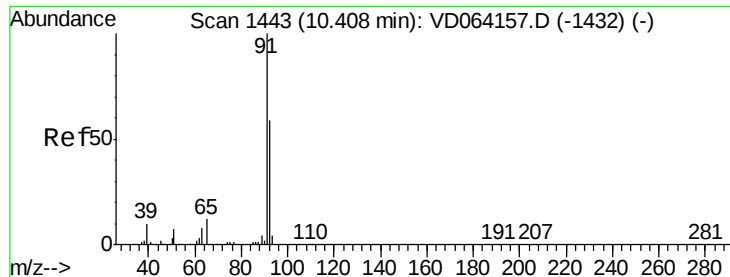
Tgt Ion: 98 Resp: 431659
Ion Ratio Lower Upper
98 100
100 63.0 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 63.163 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion: 43 Resp: 163708
Ion Ratio Lower Upper
43 100
58 37.6 30.2 45.4





#52

Toluene

Concen: 55.630 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

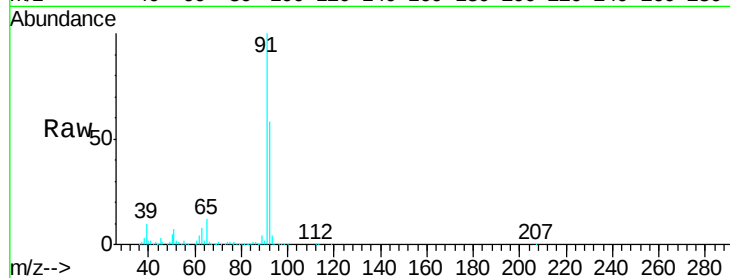
40180RE

Tgt Ion: 92 Resp: 622063

Ion Ratio Lower Upper

92 100

91 171.9 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

600000

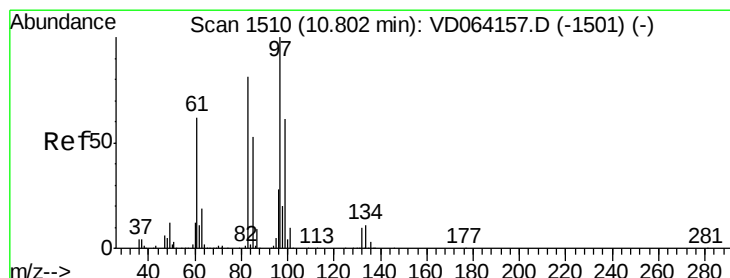
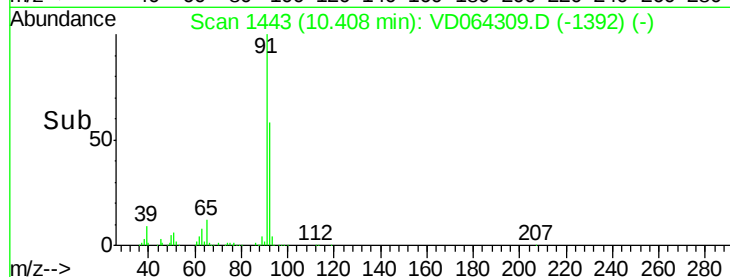
400000

200000

0

10.30 10.40 10.50

Time-->



#55

1,1,2-Trichloroethane

Concen: 32.811 ug/l

RT: 10.78 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Tgt Ion: 97 Resp: 98632

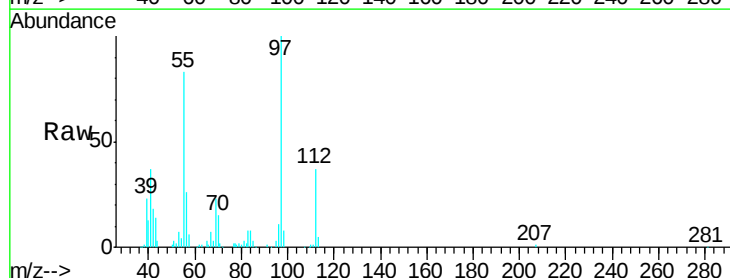
Ion Ratio Lower Upper

97 100

83 8.0 65.1 97.7#

85 3.5 42.0 63.0#

99 0.0 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

80000

60000

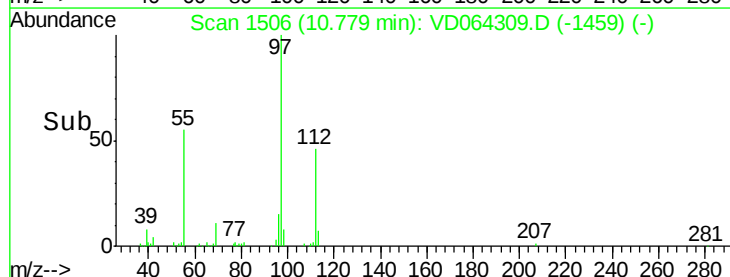
40000

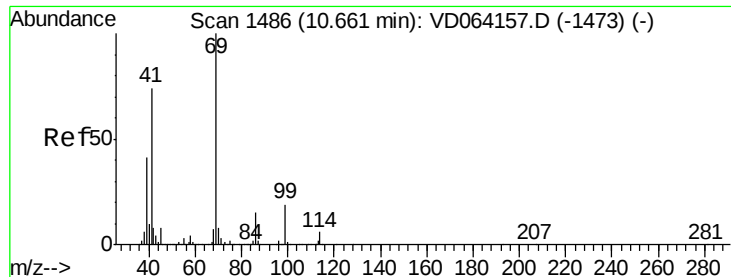
20000

0

10.70 10.75 10.80 10.85

Time-->





#56

Ethyl methacrylate

Concen: 2.401 ug/l

RT: 10.64 min Scan# 1483

Delta R.T. -0.02 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

40180RE

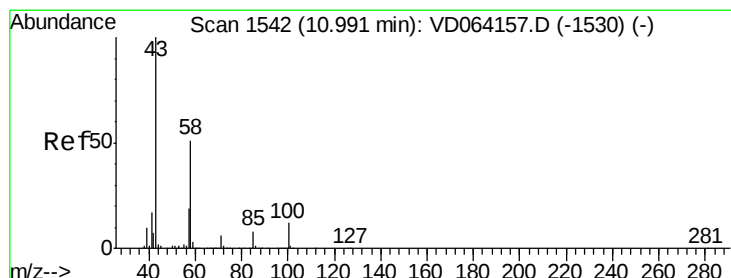
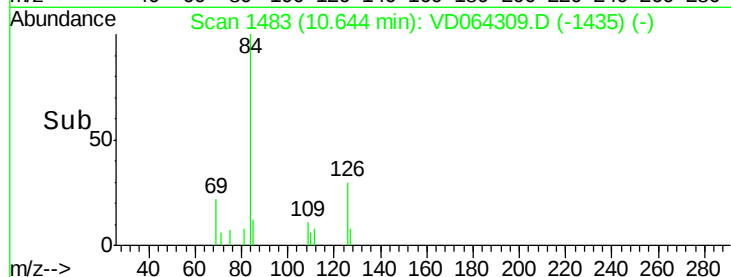
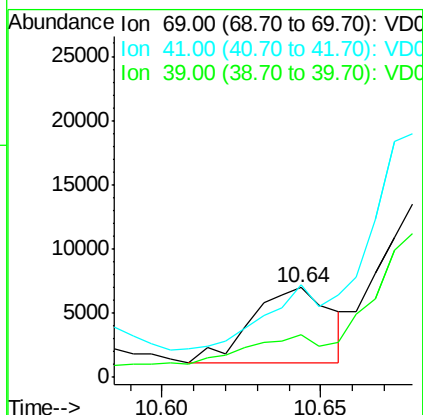
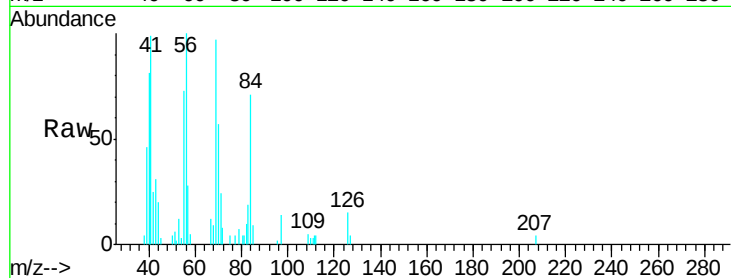
Tgt Ion: 69 Resp: 10096

Ion Ratio Lower Upper

69 100

41 0.0 57.9 86.9#

39 0.0 29.0 43.4#



#59

2-Hexanone

Concen: 55.085 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.04 min

Lab File: VD064309.D

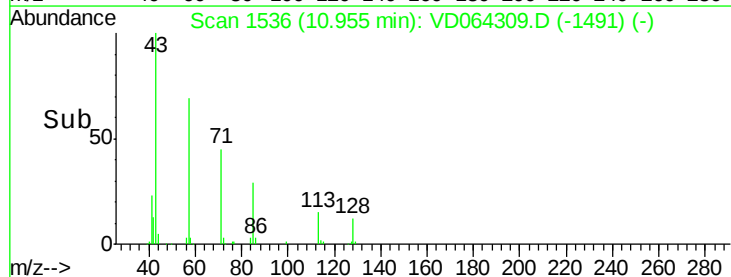
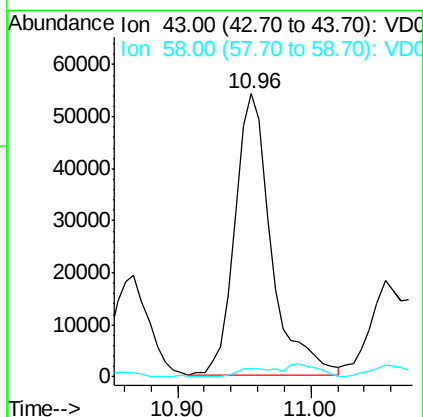
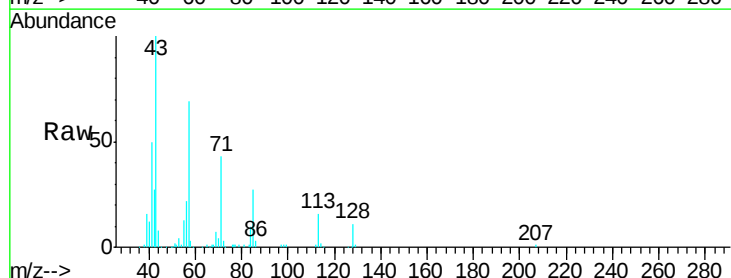
Acq: 20 Nov 2019 13:09

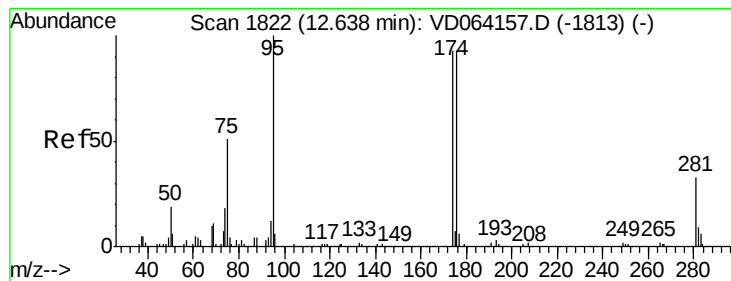
Tgt Ion: 43 Resp: 101573

Ion Ratio Lower Upper

43 100

58 2.6 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 11.146 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

40180RE

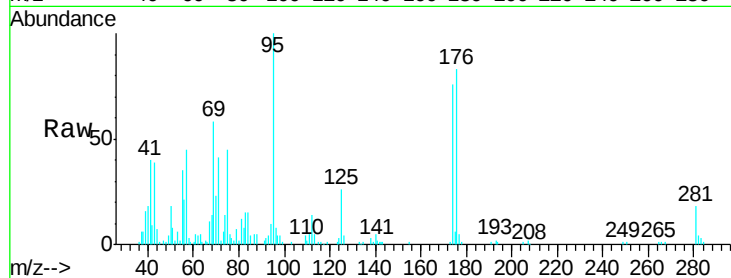
Tgt Ion: 95 Resp: 56352

Ion Ratio Lower Upper

95 100

174 80.1 0.0 183.6

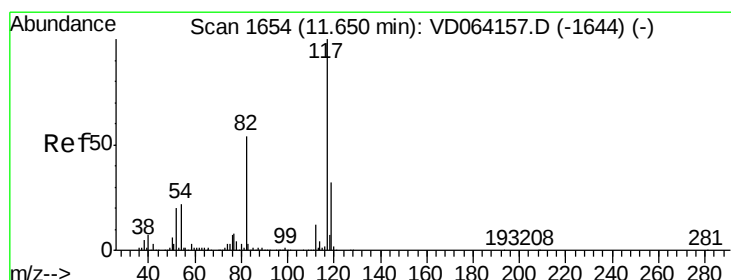
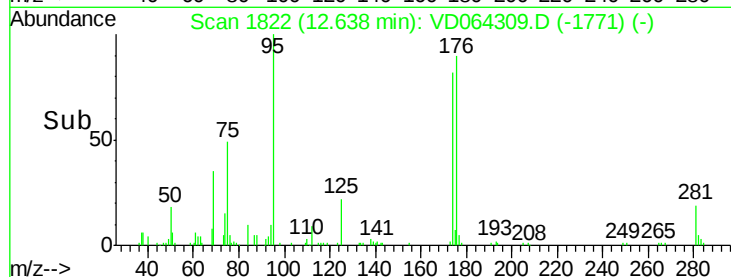
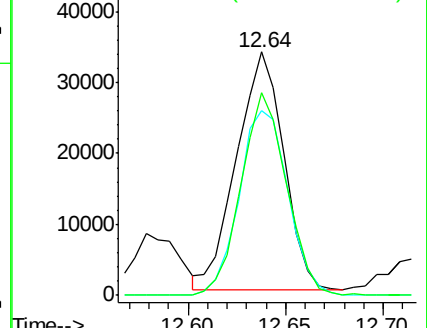
176 81.1 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

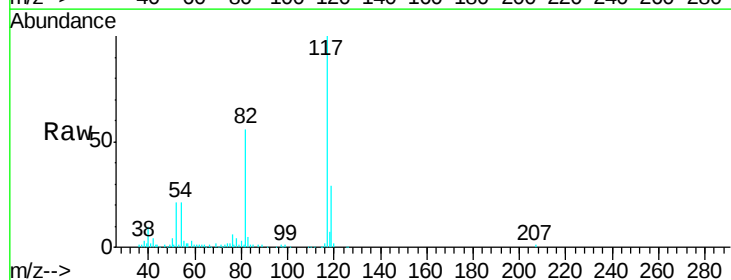
Tgt Ion: 117 Resp: 205349

Ion Ratio Lower Upper

117 100

82 55.2 42.8 64.2

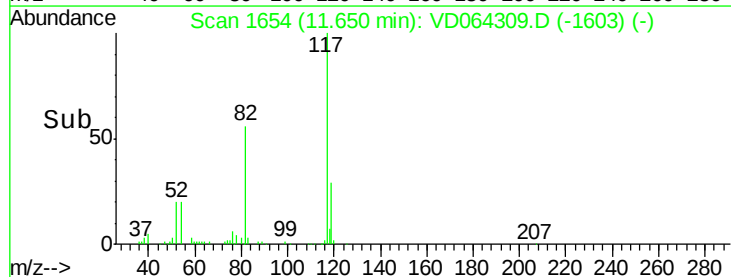
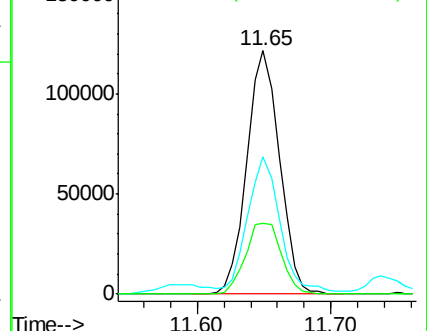
119 29.3 25.6 38.4

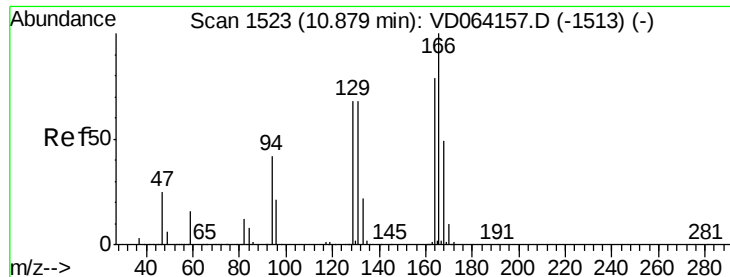


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

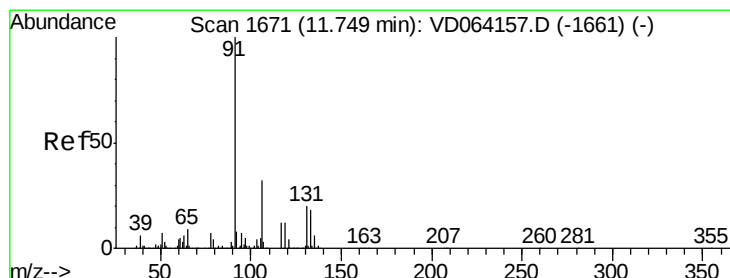
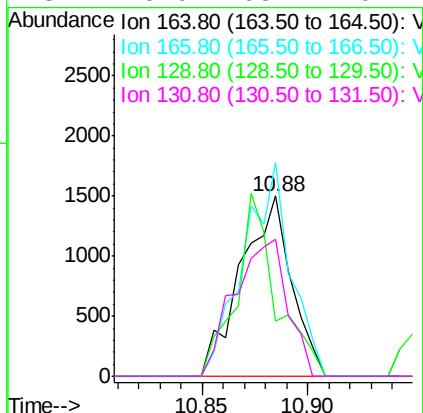
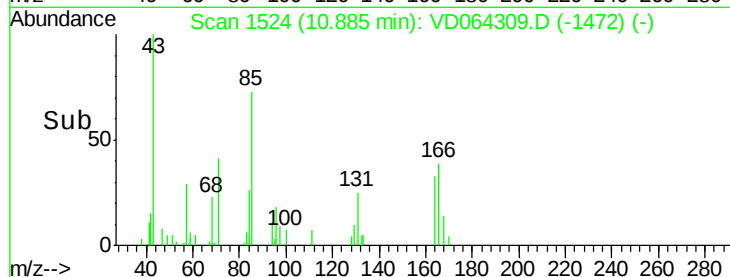
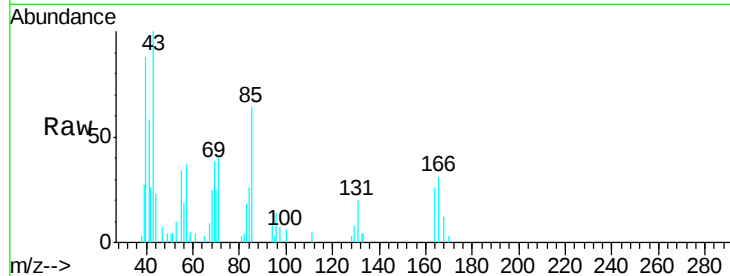




#64
Tetrachloroethene
Concen: 1.568 ug/l
RT: 10.88 min Scan# 1524
Delta R.T. 0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

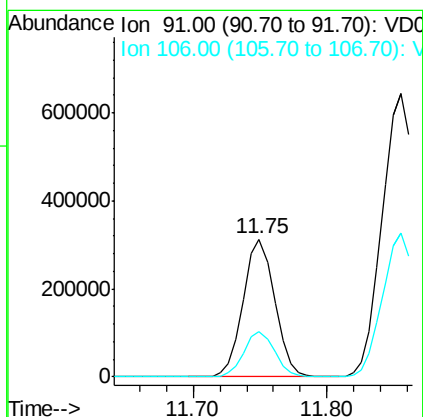
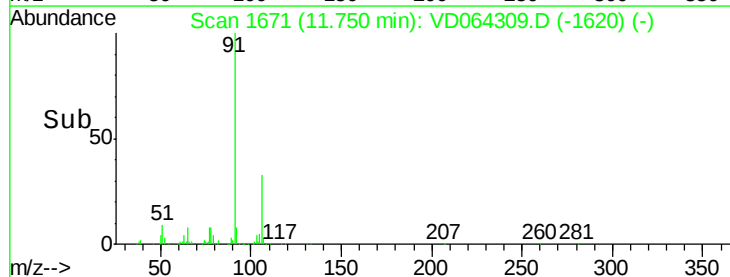
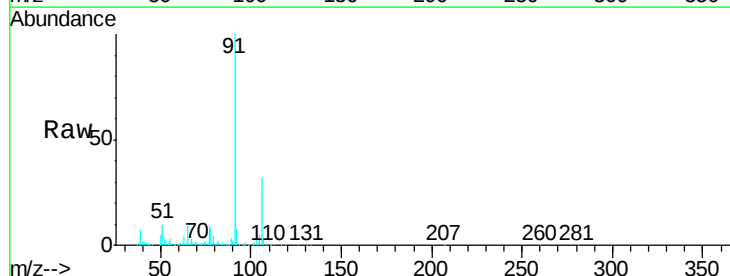
Instrument :
MSVOA_D
ClientSampleId :
40180RE

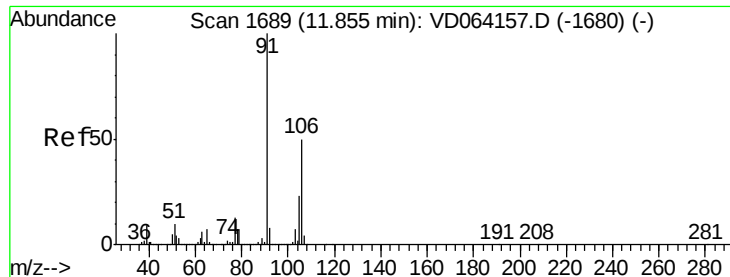
Tgt Ion:164 Resp: 2477
Ion Ratio Lower Upper
164 100
166 118.7 100.8 151.2
129 30.4 68.7 103.1#
131 76.0 68.1 102.1



#67
Ethyl Benzene
Concen: 67.841 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion: 91 Resp: 512422
Ion Ratio Lower Upper
91 100
106 32.5 25.5 38.3





#68

m/p-Xylenes

Concen: 206.841 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

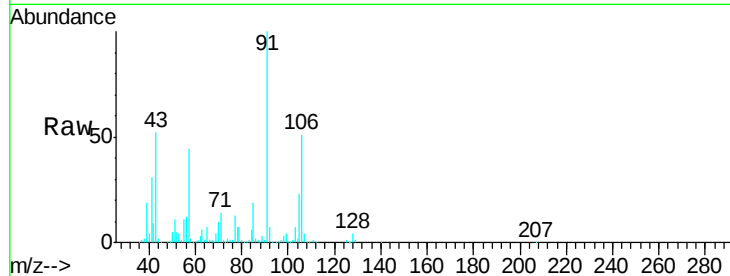
40180RE

Tgt Ion:106 Resp: 598844

Ion Ratio Lower Upper

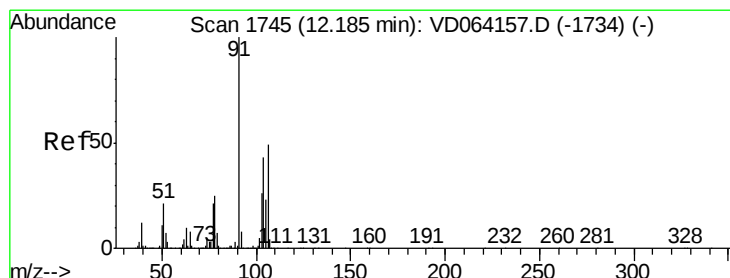
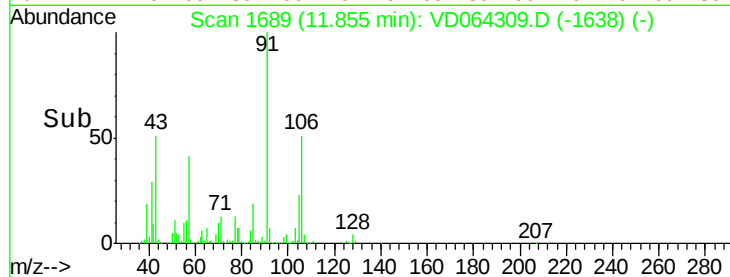
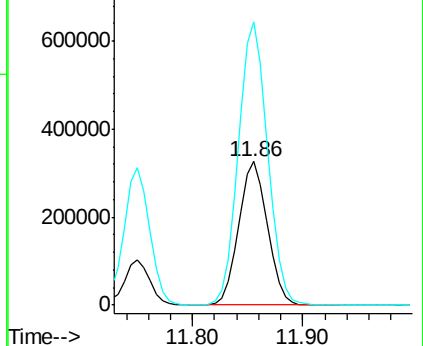
106 100

91 199.5 160.3 240.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V



#69

o-Xylene

Concen: 86.603 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VD064309.D

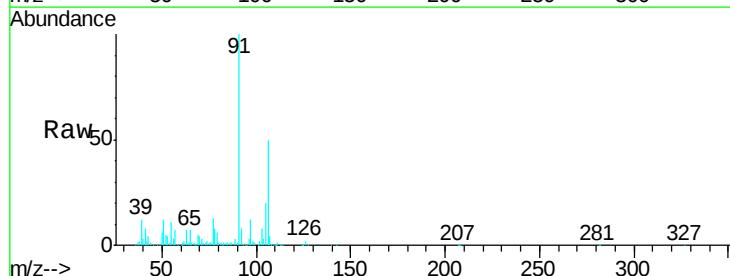
Acq: 20 Nov 2019 13:09

Tgt Ion:106 Resp: 232539

Ion Ratio Lower Upper

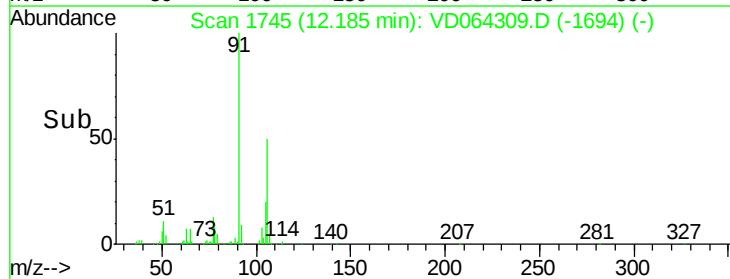
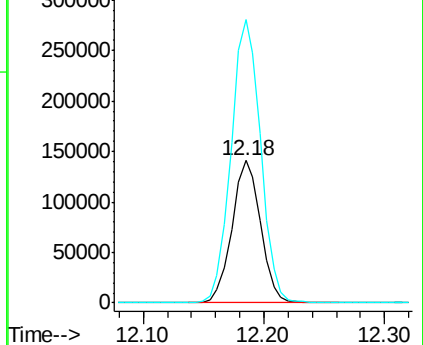
106 100

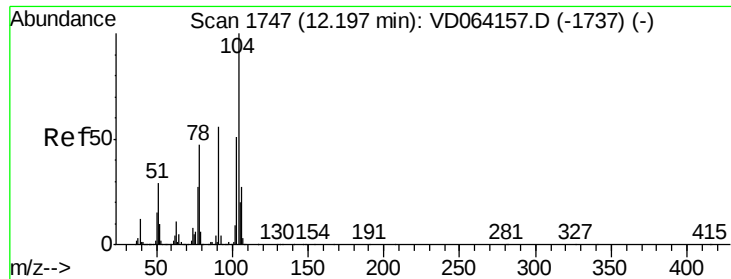
91 206.0 105.1 315.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V





#70

Styrene

Concen: 4.365 ug/l

RT: 12.19 min Scan# 1746

Delta R.T. -0.01 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

40180RE

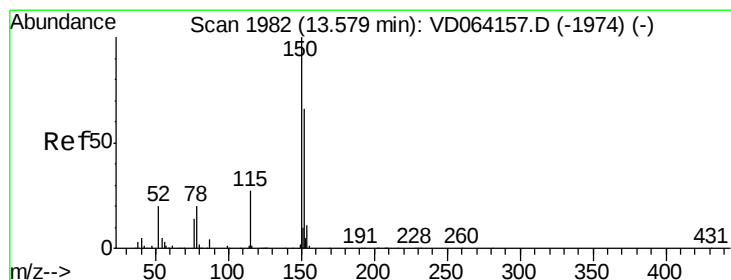
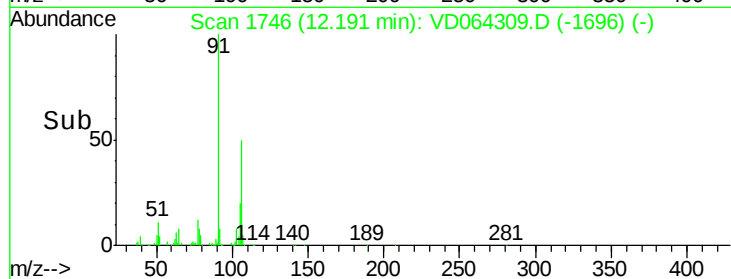
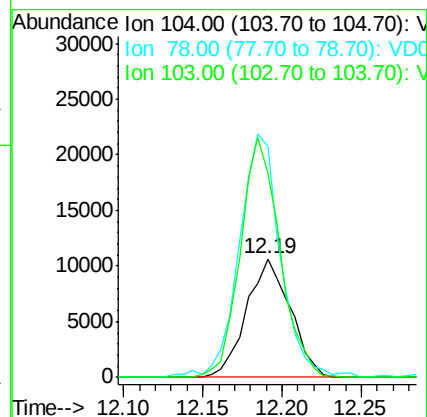
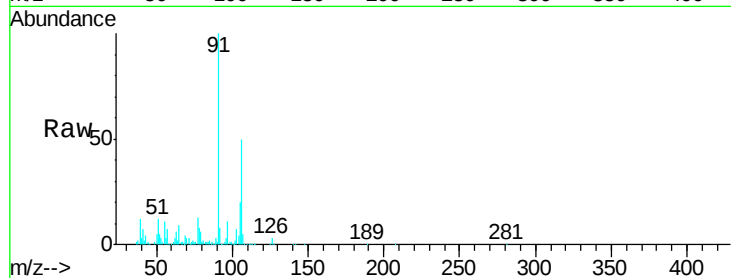
Tgt Ion:104 Resp: 20461

Ion Ratio Lower Upper

104 100

78 193.2 39.9 59.9#

103 181.6 43.4 65.0#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

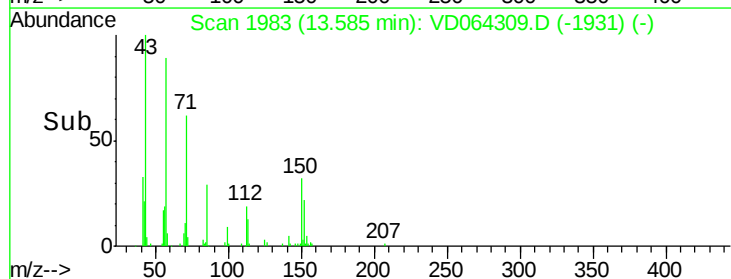
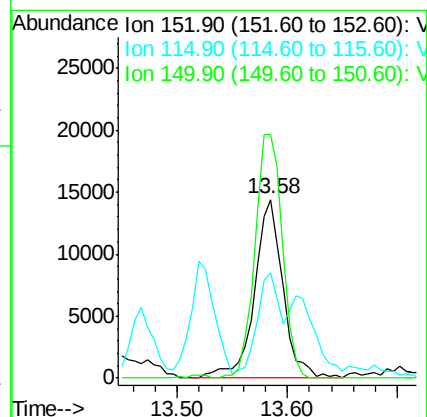
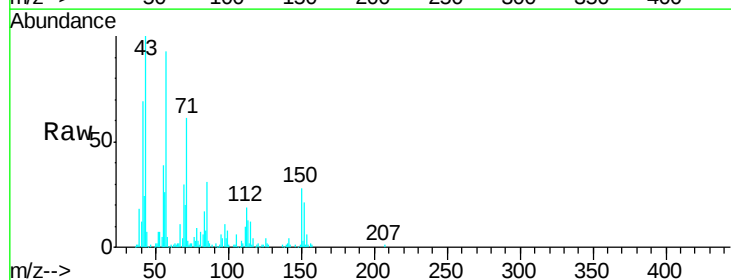
Tgt Ion:152 Resp: 26152

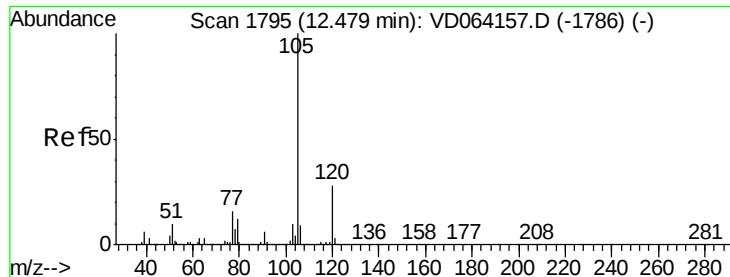
Ion Ratio Lower Upper

152 100

115 45.3 27.4 82.2

150 131.3 0.0 351.6





#73

Isopropylbenzene

Concen: 62.929 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

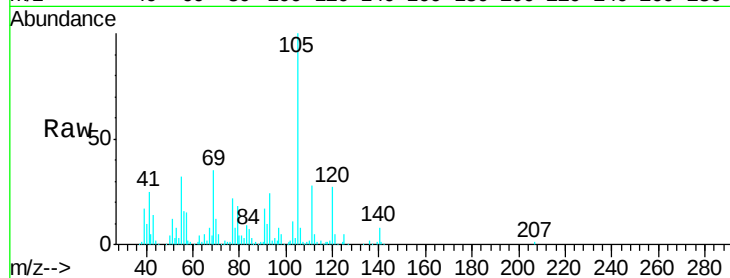
40180RE

Tgt Ion:105 Resp: 120795

Ion Ratio Lower Upper

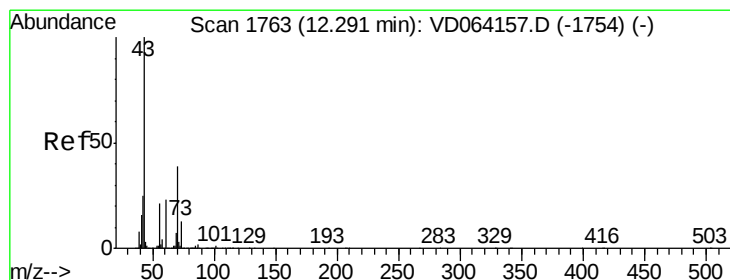
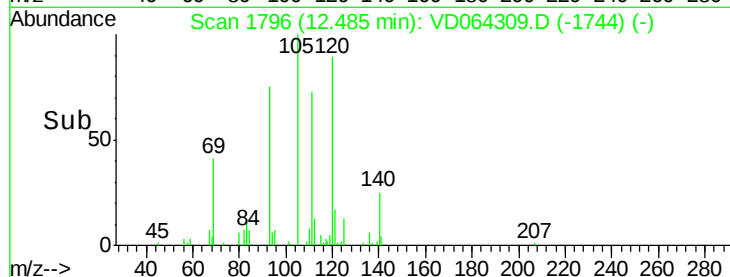
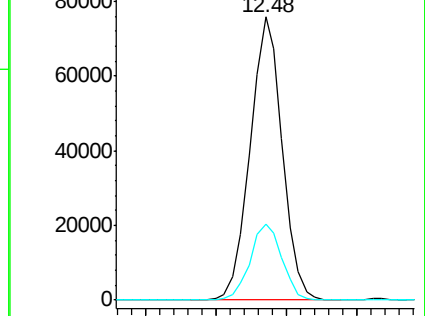
105 100

120 26.5 13.6 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 326.337 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Tgt Ion: 43 Resp: 147927

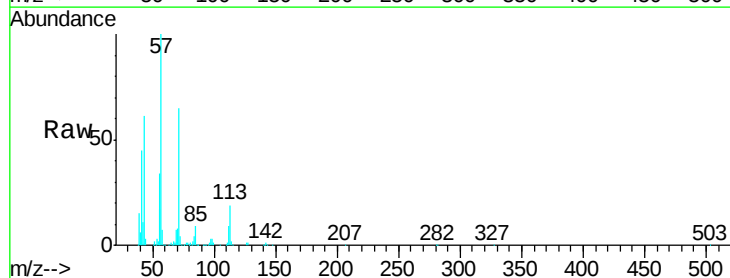
Ion Ratio Lower Upper

43 100

70 17.1 32.4 48.6#

55 0.0 17.9 26.9#

61 0.0 19.0 28.4#

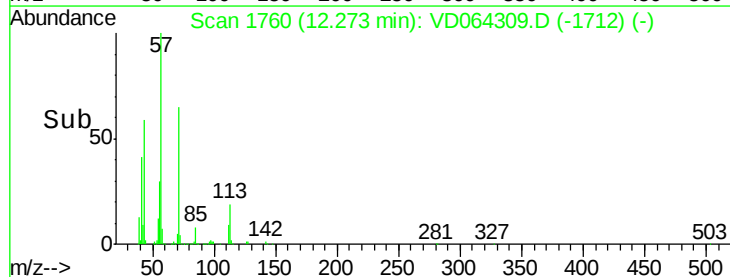
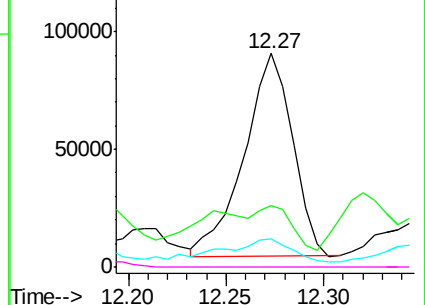


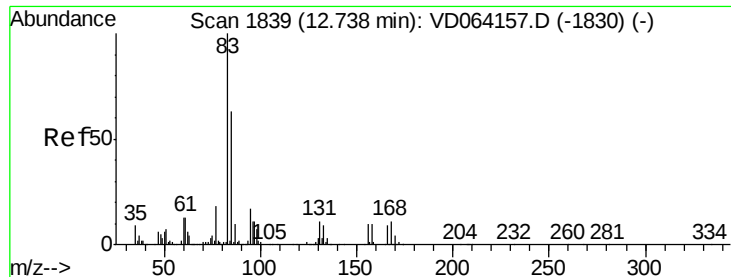
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 42.760 ug/l

RT: 12.70 min Scan# 1833

Delta R.T. -0.04 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

40180RE

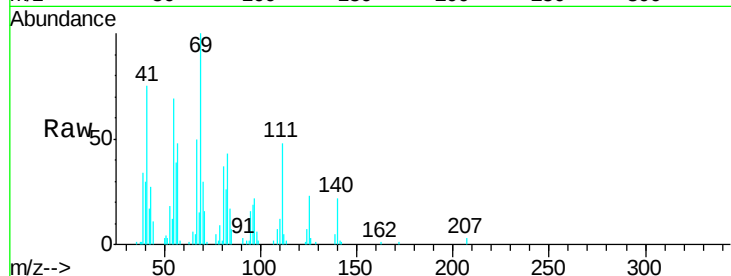
Tgt Ion: 83 Resp: 12368

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.7#

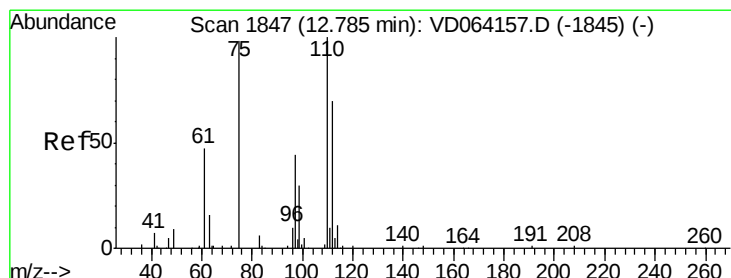
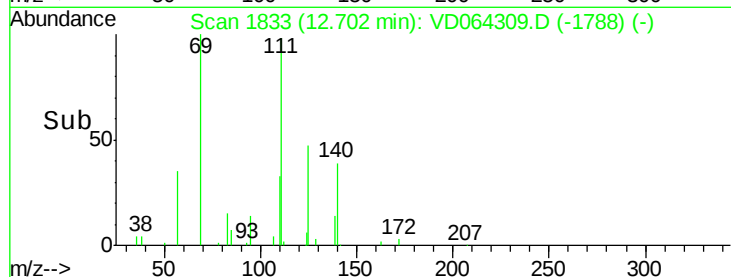
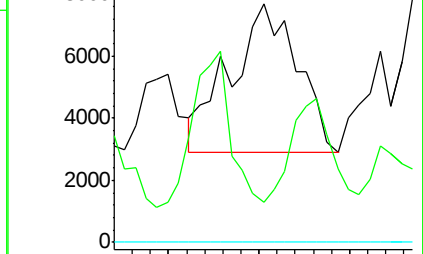
85 0.0 32.5 97.5#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 7.619 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.04 min

Lab File: VD064309.D

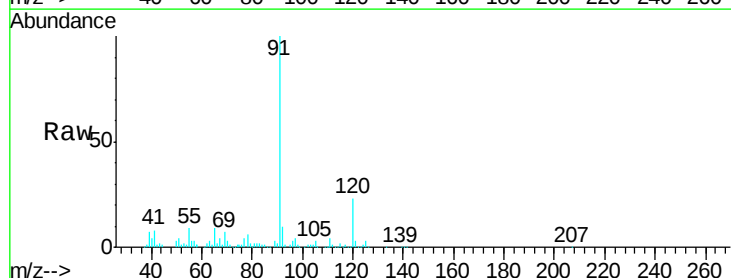
Acq: 20 Nov 2019 13:09

Tgt Ion: 75 Resp: 1605

Ion Ratio Lower Upper

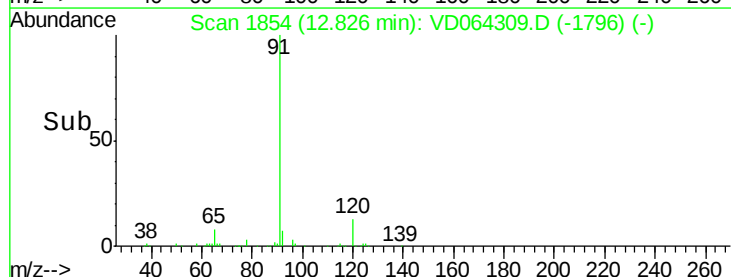
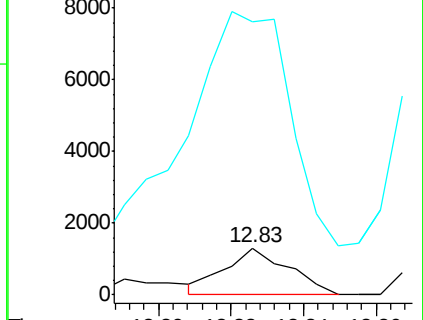
75 100

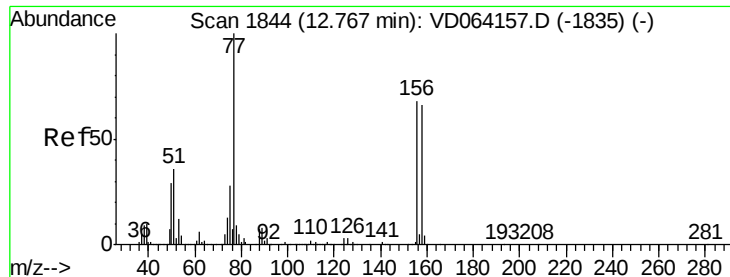
77 927.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 2.282 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

40180RE

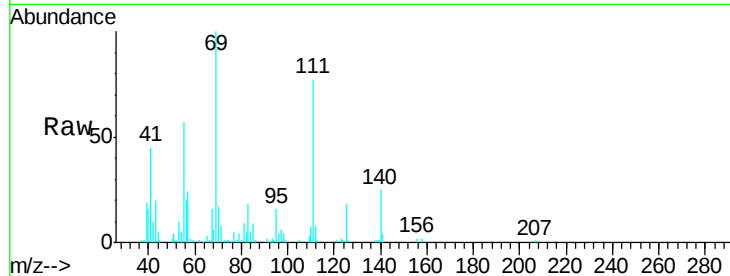
Tgt Ion:156 Resp: 1064

Ion Ratio Lower Upper

156 100

77 0.0 81.2 243.4#

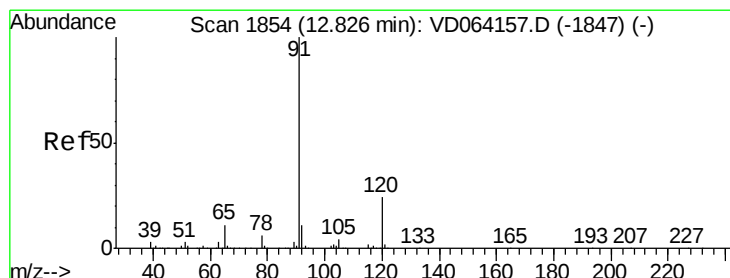
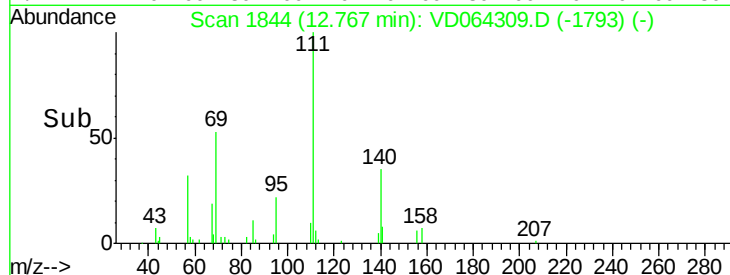
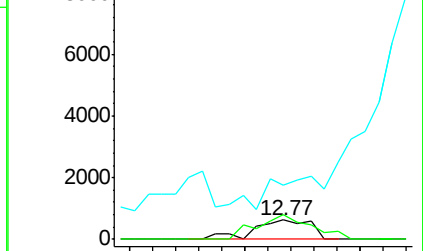
158 121.3 48.4 145.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 128.852 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064309.D

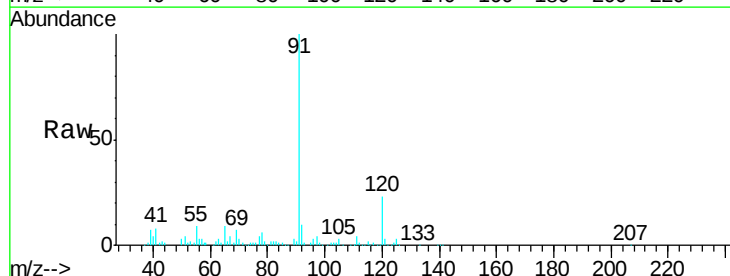
Acq: 20 Nov 2019 13:09

Tgt Ion: 91 Resp: 282586

Ion Ratio Lower Upper

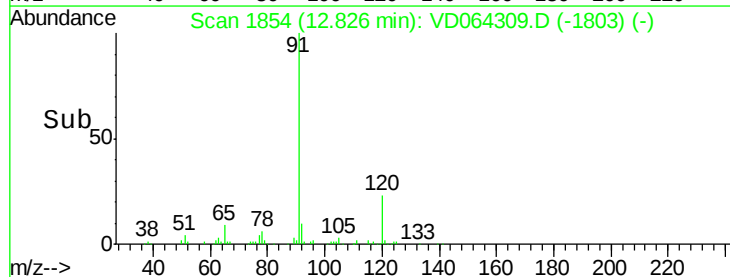
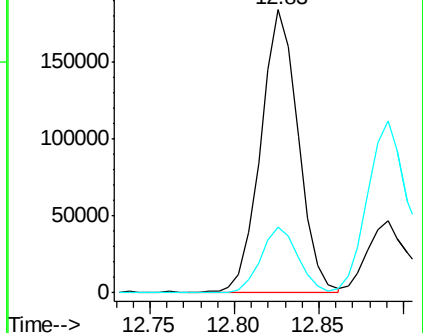
91 100

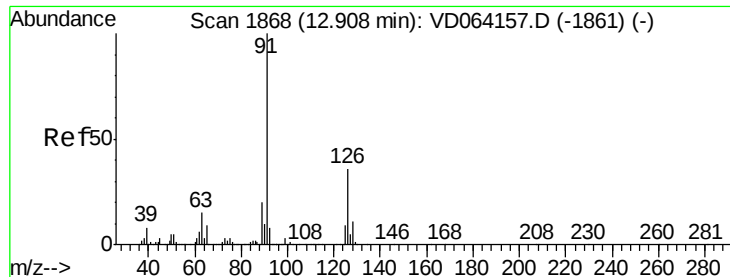
120 23.2 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 58.015 ug/l

RT: 12.89 min Scan# 1865

Delta R.T. -0.02 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

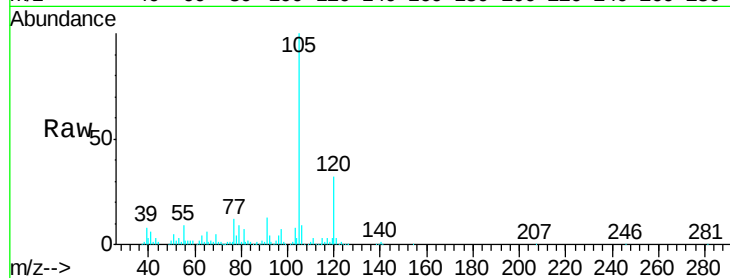
40180RE

Tgt Ion: 91 Resp: 71833

Ion Ratio Lower Upper

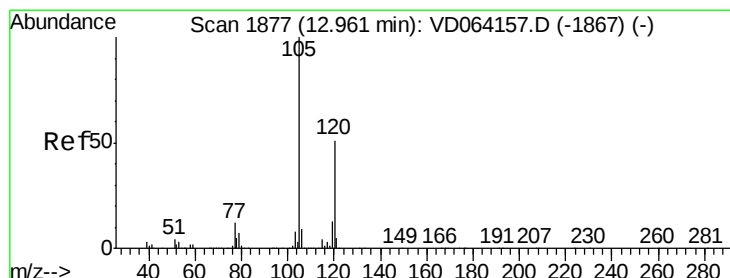
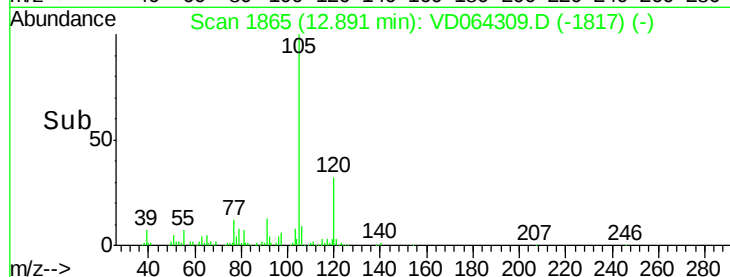
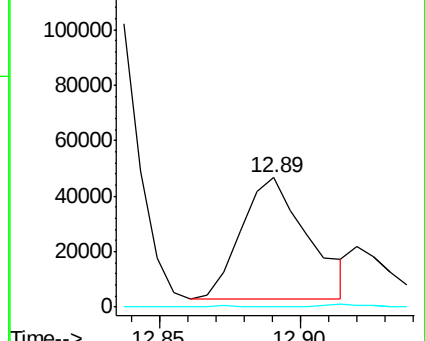
91 100

126 0.9 17.7 53.1#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 177.458 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VD064309.D

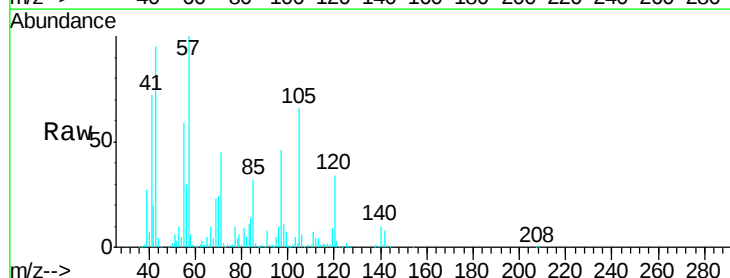
Acq: 20 Nov 2019 13:09

Tgt Ion: 105 Resp: 279904

Ion Ratio Lower Upper

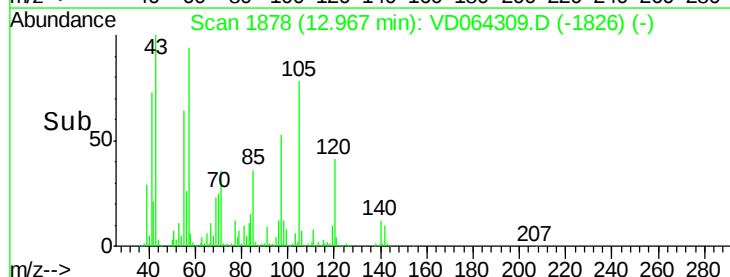
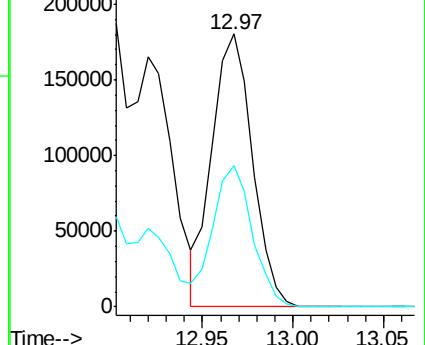
105 100

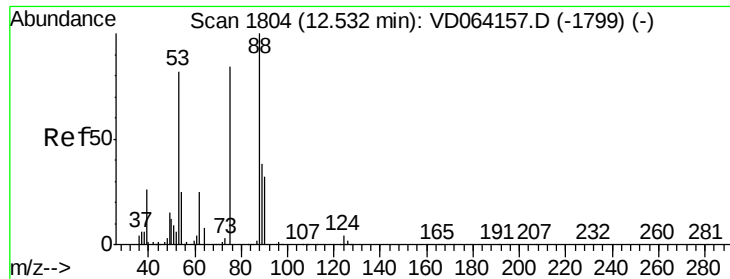
120 50.5 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 16.144 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. -0.04 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

40180RE

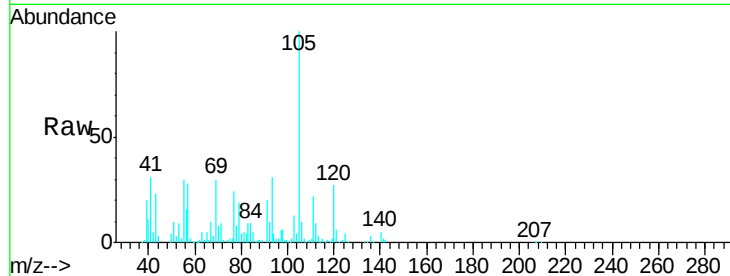
Tgt Ion: 75 Resp: 1712

Ion Ratio Lower Upper

75 100

53 410.7 79.4 119.0#

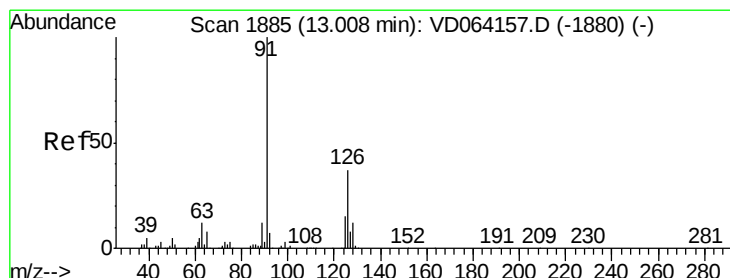
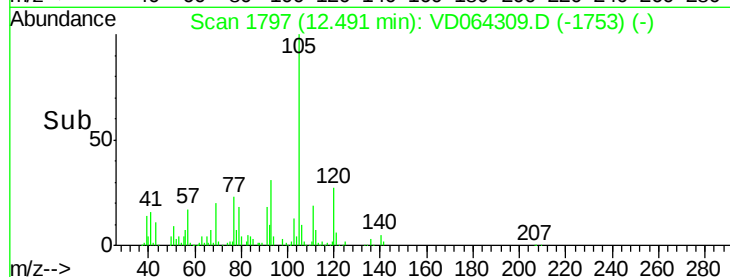
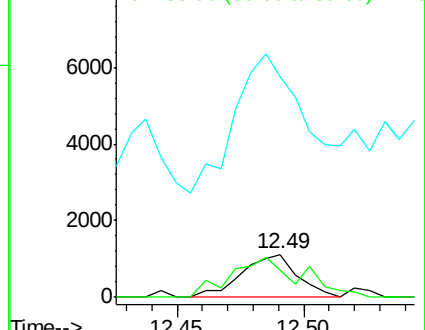
89 118.5 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 25.666 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.04 min

Lab File: VD064309.D

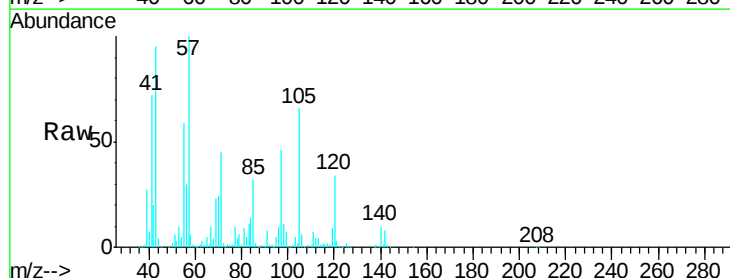
Acq: 20 Nov 2019 13:09

Tgt Ion: 91 Resp: 33147

Ion Ratio Lower Upper

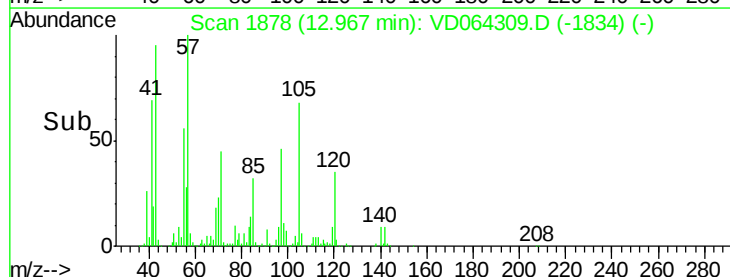
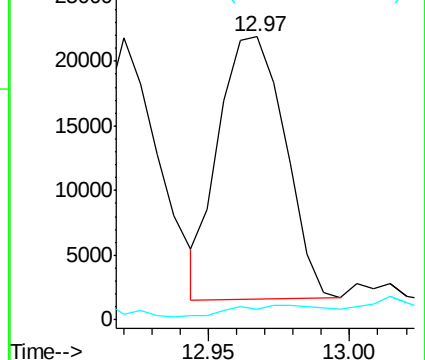
91 100

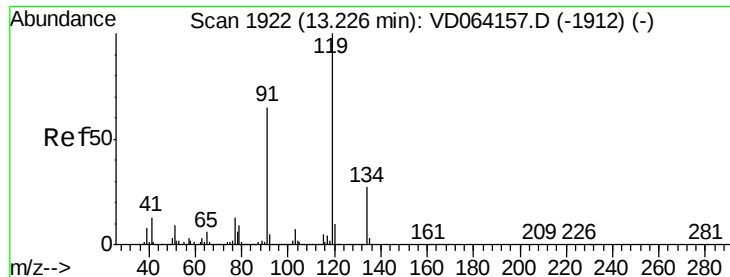
126 7.7 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V

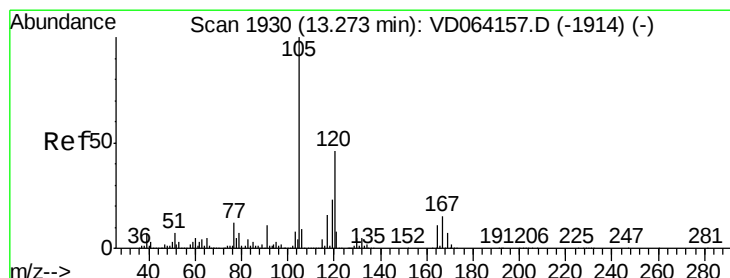
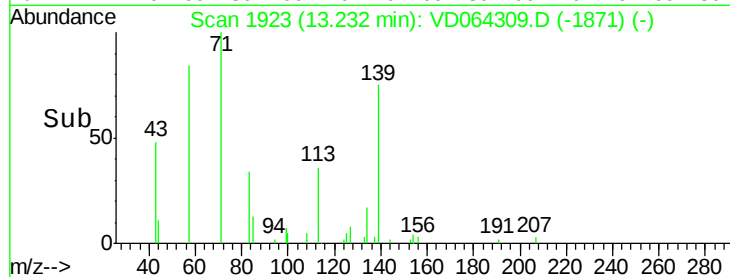
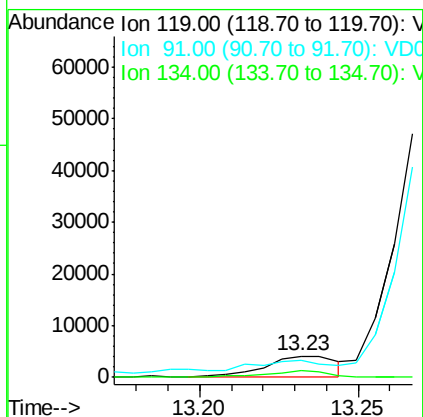
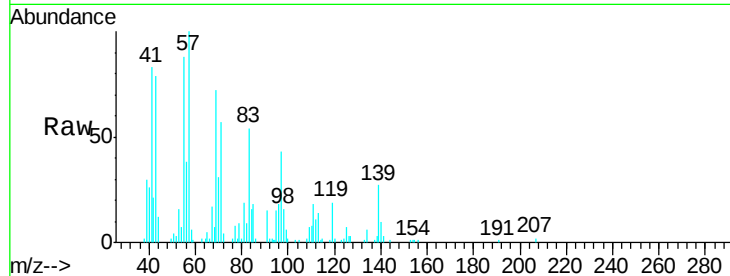




#83
tert-Butylbenzene
Concen: 4.676 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

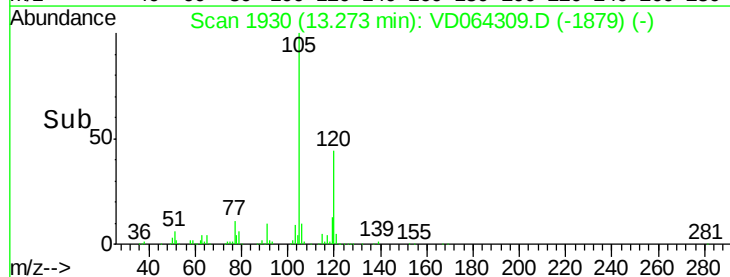
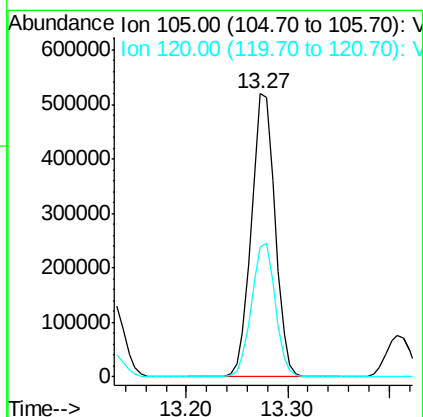
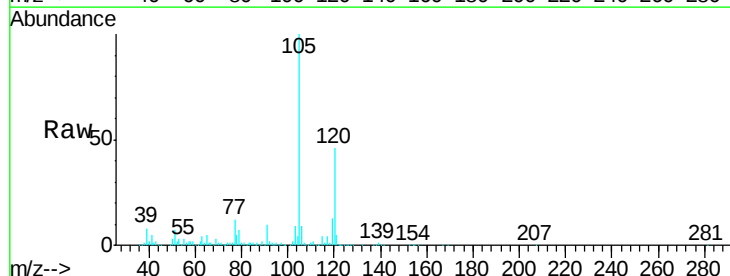
Instrument :
MSVOA_D
ClientSampleId :
40180RE

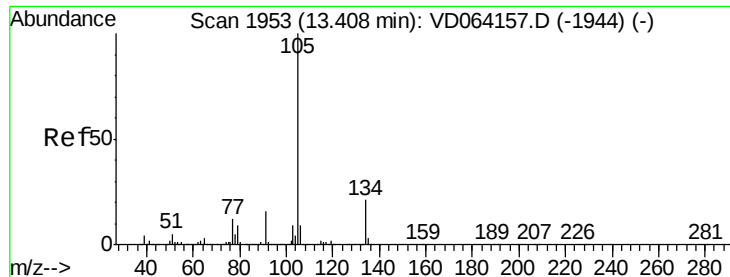
Tgt Ion:119 Resp: 6503
Ion Ratio Lower Upper
119 100
91 76.4 31.8 95.4
134 25.9 13.7 41.0



#84
1,2,4-Trimethylbenzene
Concen: 542.961 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion:105 Resp: 845499
Ion Ratio Lower Upper
105 100
120 47.2 23.3 69.8

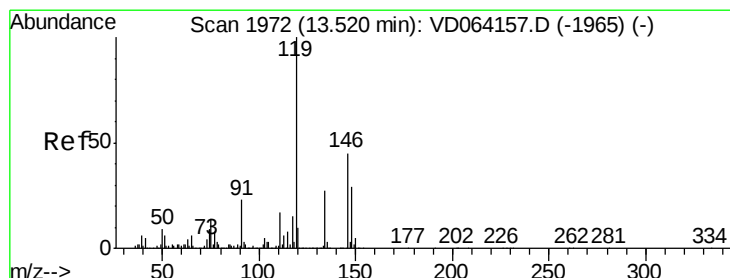
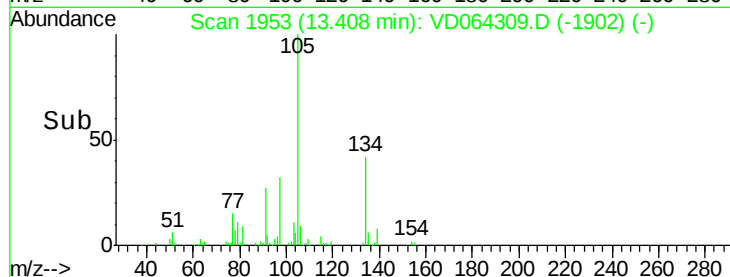
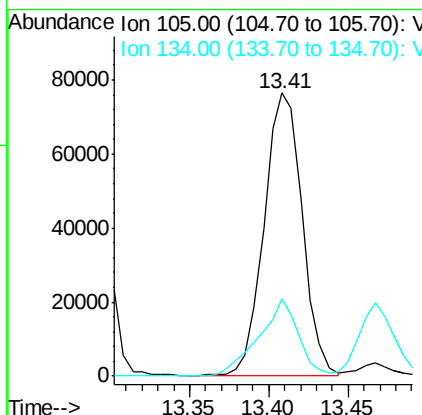
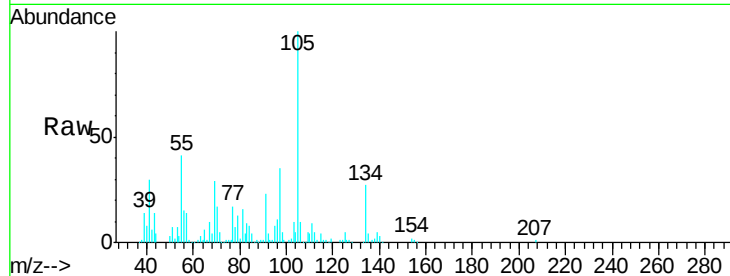




#85
 sec-Butylbenzene
 Concen: 68.077 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

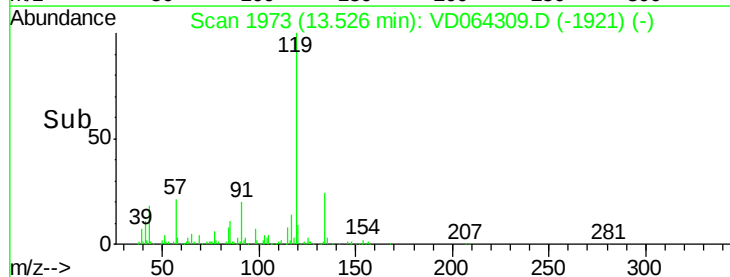
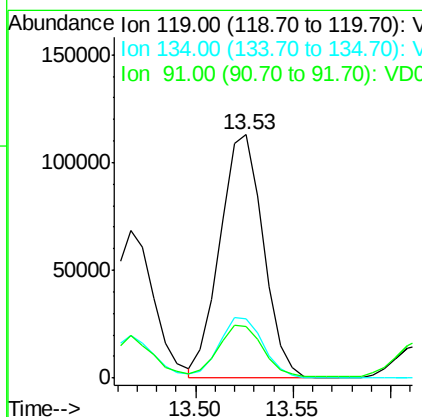
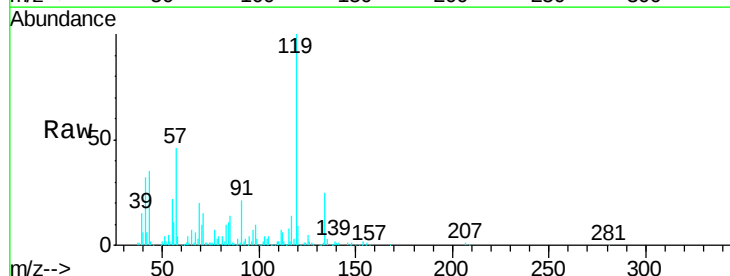
Instrument :
 MSVOA_D
 ClientSampleId :
 40180RE

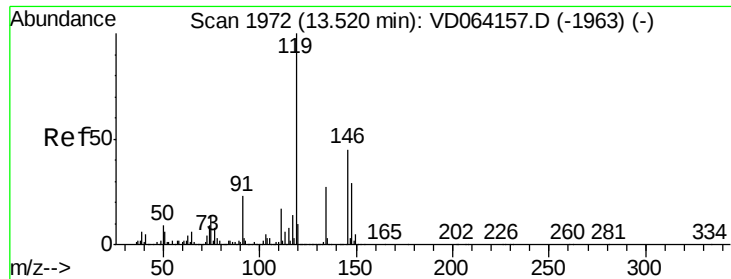
Tgt Ion:105 Resp: 127169
 Ion Ratio Lower Upper
 105 100
 134 28.5 10.7 31.9



#86
 p-Isopropyltoluene
 Concen: 98.051 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.01 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

Tgt Ion:119 Resp: 174129
 Ion Ratio Lower Upper
 119 100
 134 25.4 13.5 40.5
 91 21.6 11.5 34.4

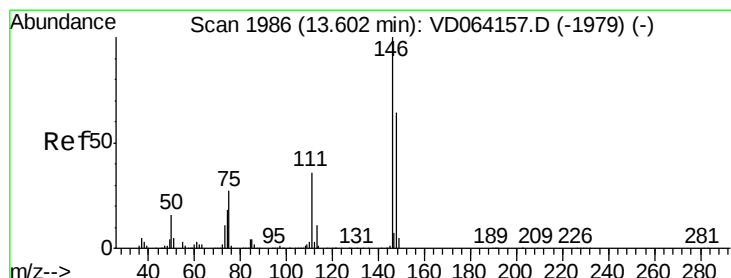
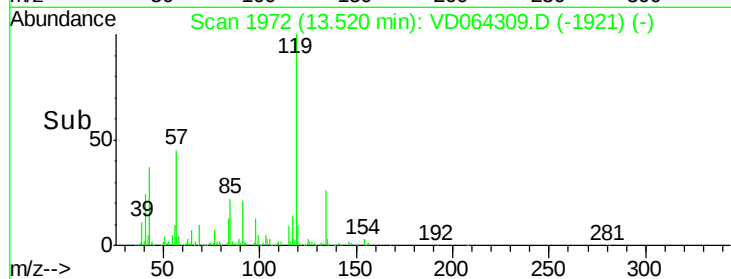
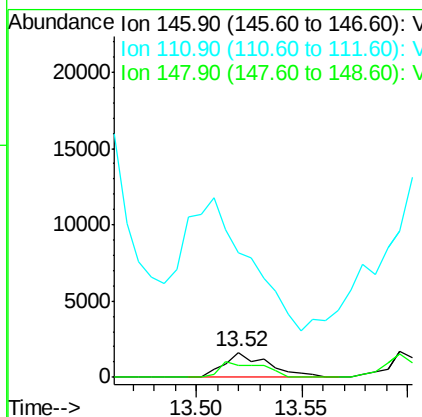
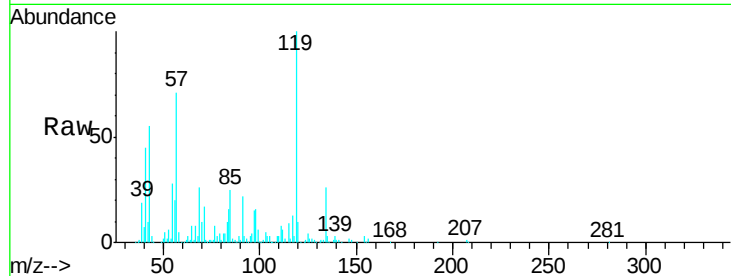




#87
 1,3-Dichlorobenzene
 Concen: 2.761 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

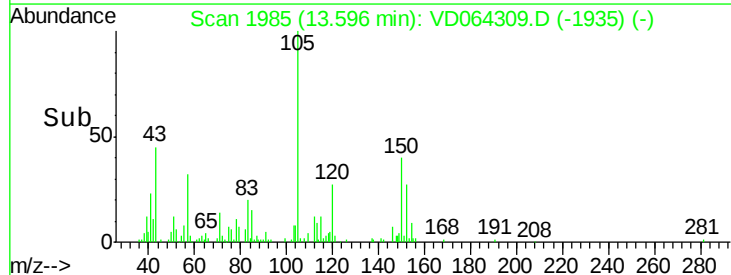
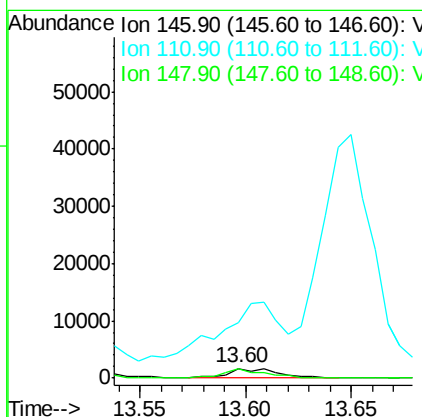
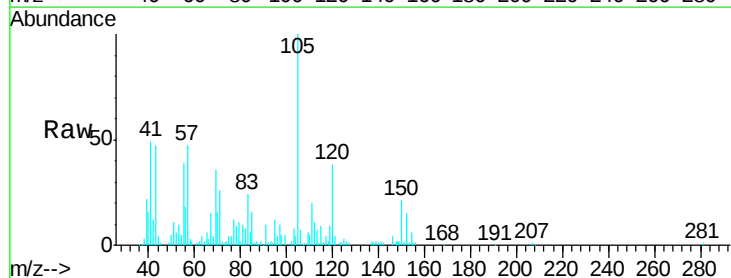
Instrument :
 MSVOA_D
 ClientSampleId :
 40180RE

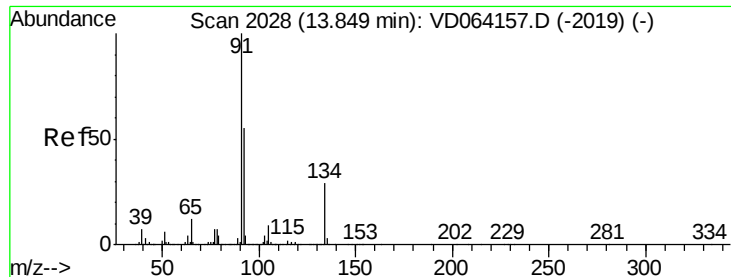
Tgt Ion:146 Resp: 2390
 Ion Ratio Lower Upper
 146 100
 111 764.0 18.9 56.9#
 148 59.4 32.1 96.5



#88
 1,4-Dichlorobenzene
 Concen: 3.258 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. -0.01 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

Tgt Ion:146 Resp: 2753
 Ion Ratio Lower Upper
 146 100
 111 739.5 18.1 54.4#
 148 77.4 31.9 95.7





#89

n-Butylbenzene

Concen: 82.254 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

40180RE

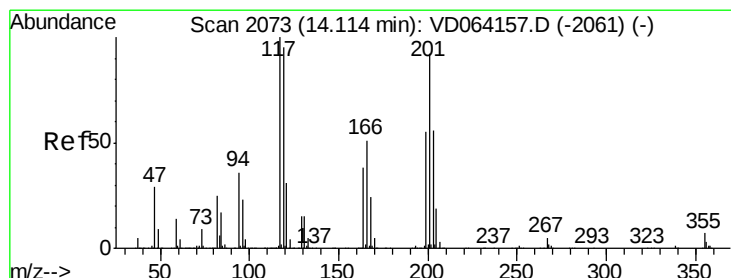
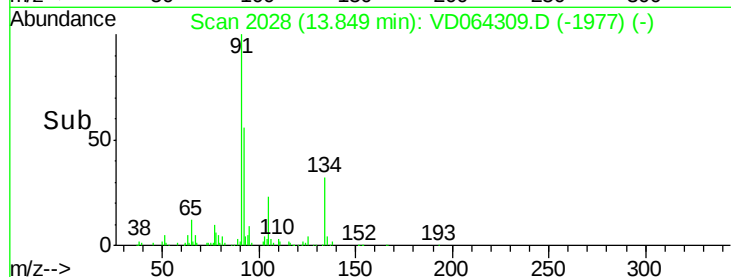
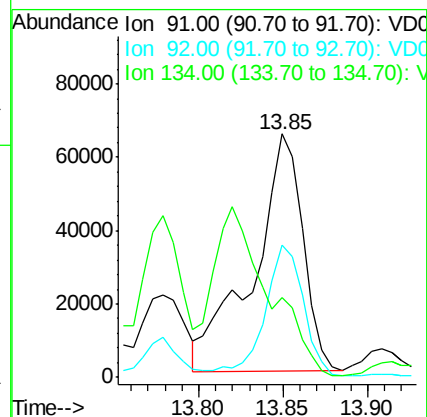
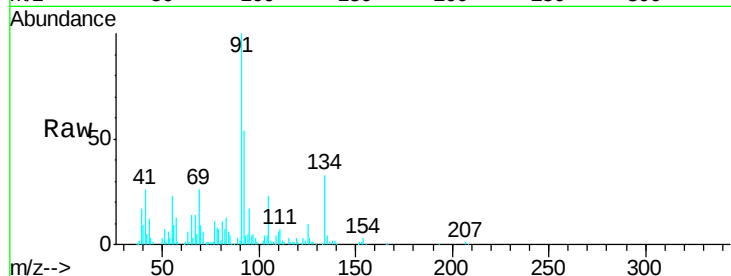
Tgt Ion: 91 Resp: 131971

Ion Ratio Lower Upper

91 100

92 43.3 27.3 81.8

134 0.0 14.1 42.4#



#90

Hexachloroethane

Concen: 46.529 ug/l

RT: 14.13 min Scan# 2075

Delta R.T. 0.01 min

Lab File: VD064309.D

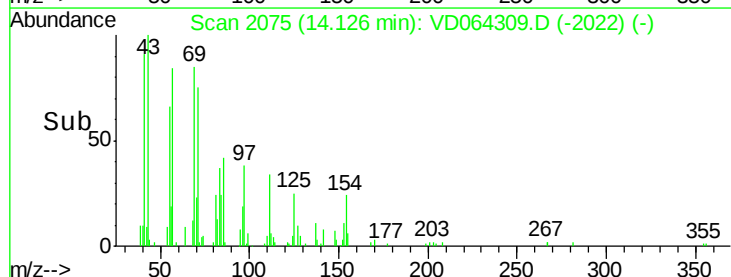
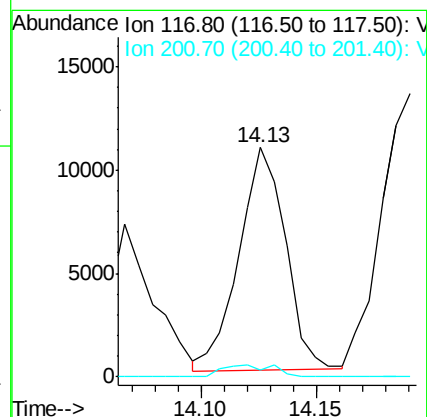
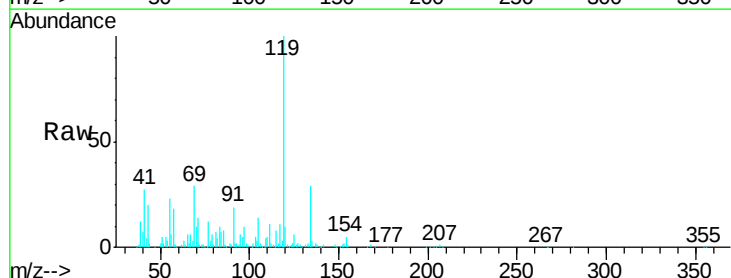
Acq: 20 Nov 2019 13:09

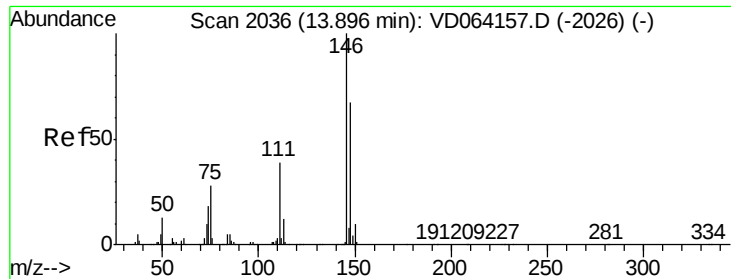
Tgt Ion: 117 Resp: 15271

Ion Ratio Lower Upper

117 100

201 5.9 45.8 137.4#

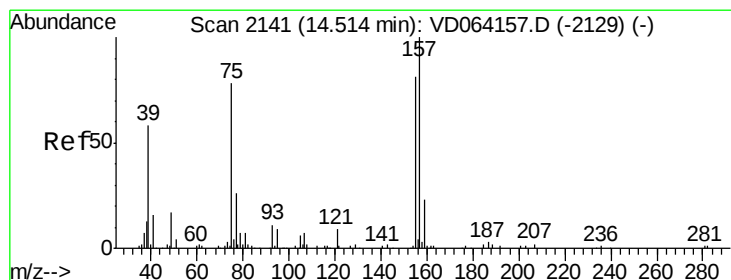
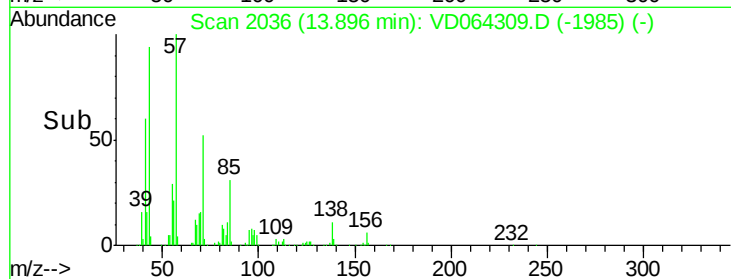
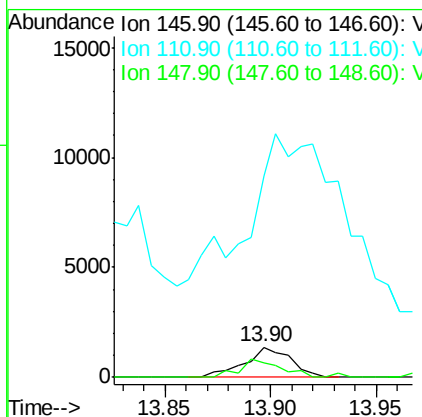
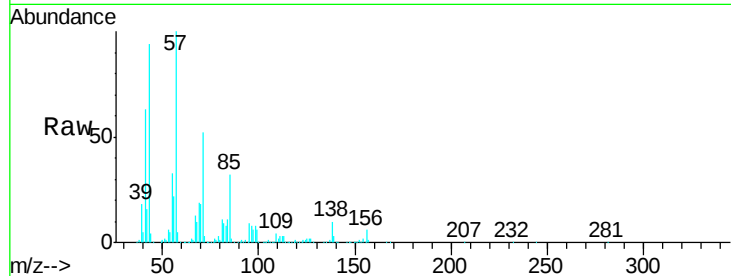




#91
 1,2-Dichlorobenzene
 Concen: 2.822 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

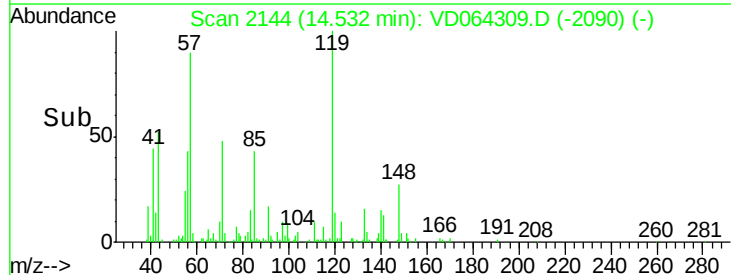
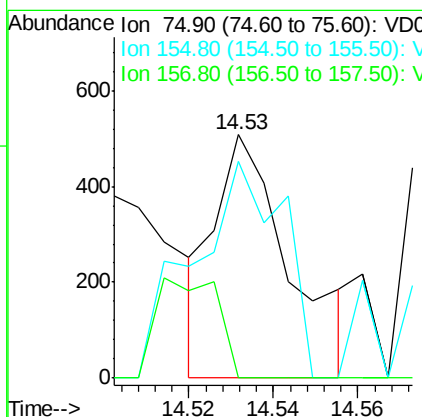
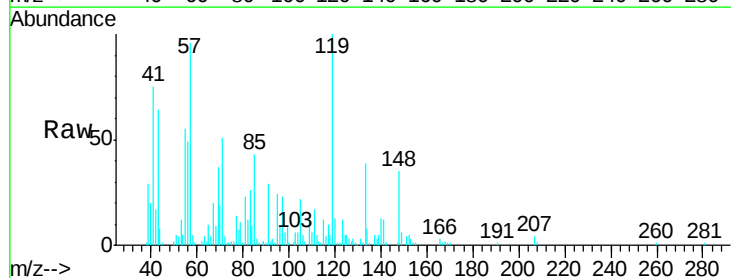
Instrument :
 MSVOA_D
 ClientSampleId :
 40180RE

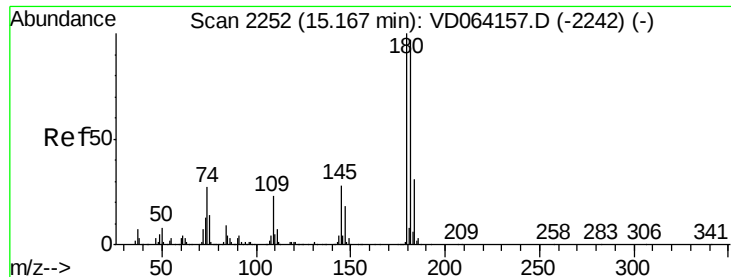
Tgt Ion: 146 Resp: 2068
 Ion Ratio Lower Upper
 146 100
 111 1157.1 19.7 59.0#
 148 53.1 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 12.066 ug/l
 RT: 14.53 min Scan# 2144
 Delta R.T. 0.02 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

Tgt Ion: 75 Resp: 624
 Ion Ratio Lower Upper
 75 100
 155 107.4 48.0 144.0
 157 33.5 61.5 184.4#

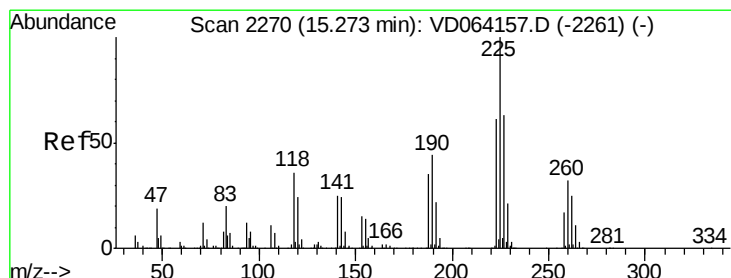
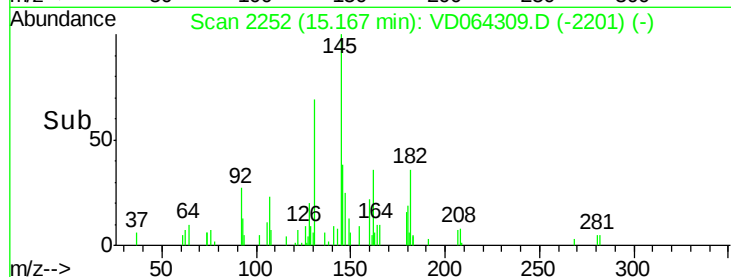
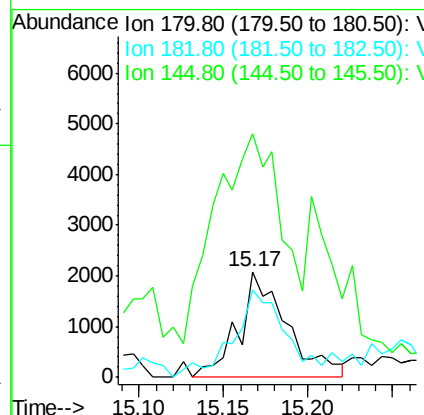
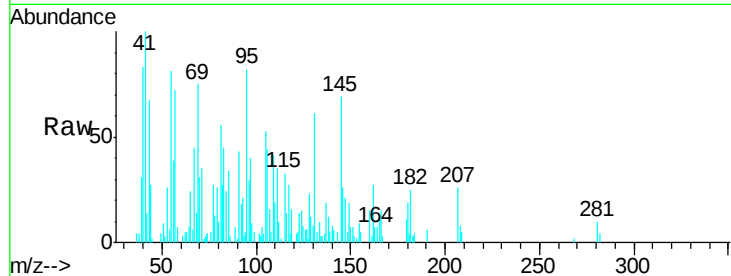




#93
 1,2,4-Trichlorobenzene
 Concen: 7.346 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

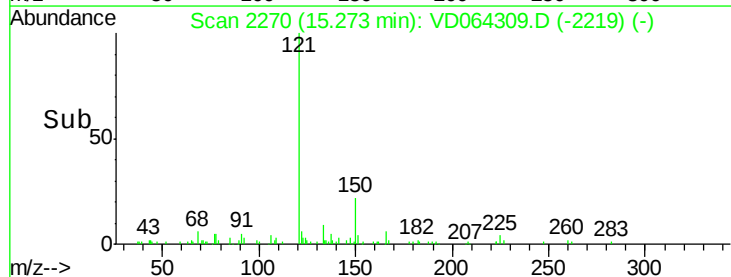
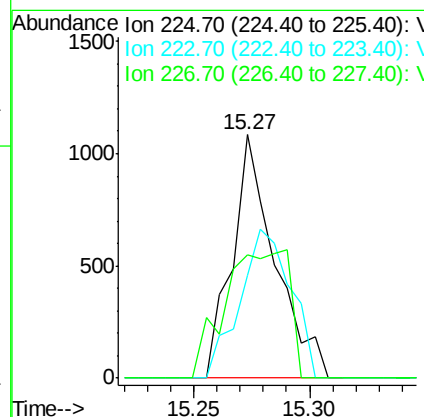
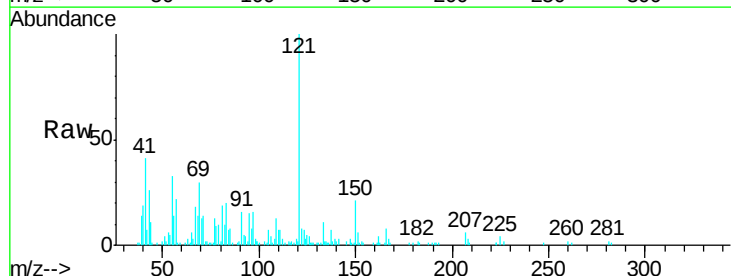
Instrument :
 MSVOA_D
 ClientSampleId :
 40180RE

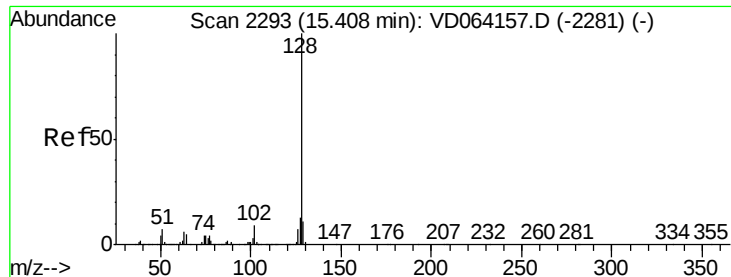
Tgt Ion:180 Resp: 4152
 Ion Ratio Lower Upper
 180 100
 182 89.3 47.5 142.5
 145 339.5 14.2 42.6#



#94
 Hexachlorobutadiene
 Concen: 3.840 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. 0.00 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

Tgt Ion:225 Resp: 1402
 Ion Ratio Lower Upper
 225 100
 223 72.6 31.1 93.3
 227 79.6 31.5 94.5





#95

Naphthalene

Concen: 25.315 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.01 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

40180RE

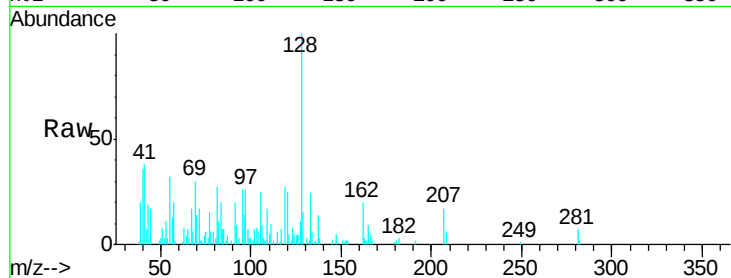
Tgt Ion:128 Resp: 23455

Ion Ratio Lower Upper

128 100

127 21.8 10.5 15.7#

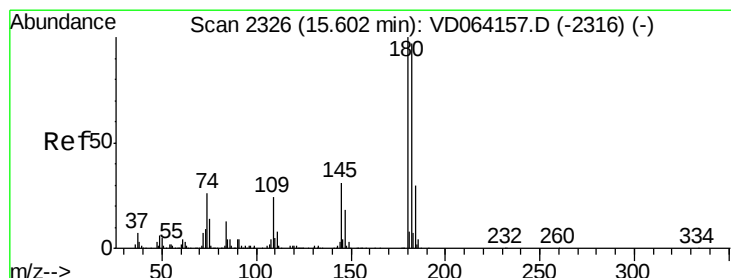
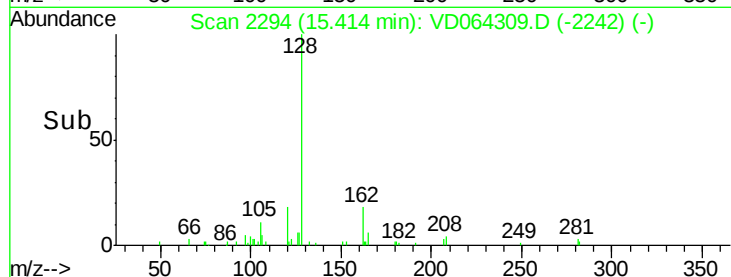
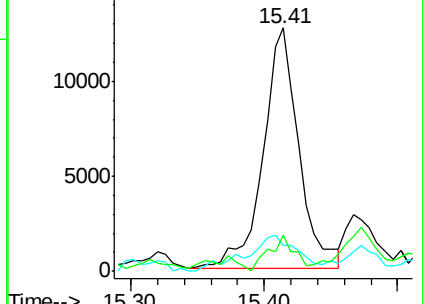
129 11.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 5.834 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. 0.01 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

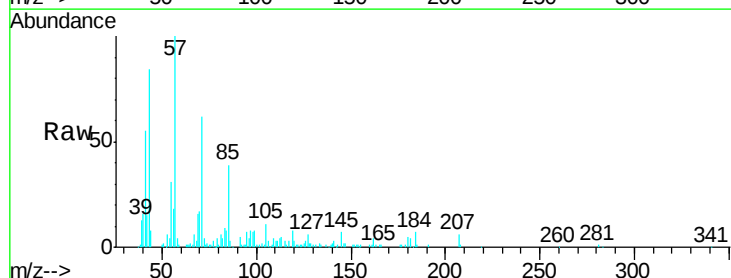
Tgt Ion:180 Resp: 2803

Ion Ratio Lower Upper

180 100

182 99.5 48.3 144.9

145 376.9 15.3 45.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

