

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
 Data File : VD063773.D
 Acq On : 23 Aug 2019 18:22
 Operator : JC/SY
 Sample : K4461-17RE
 Misc : 5.01µl/5ml/MSVOA D/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

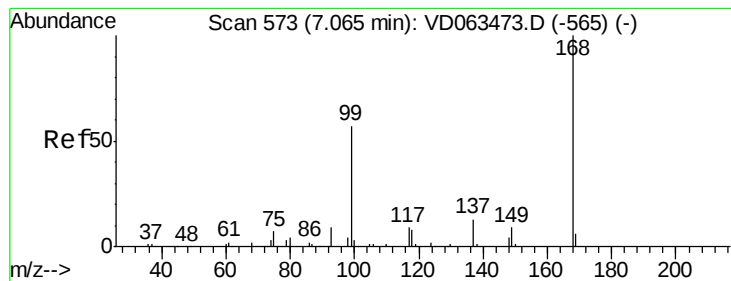
Quant Time: Aug 26 11:14:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	18709	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	25054	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	24131	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	13009	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	18769	93.85	ug/l	-0.03
Spiked Amount			Recovery	=		187.70%
35) Dibromofluoromethane	6.91	113	15894	75.32	ug/l	-0.03
Spiked Amount			Recovery	=		150.64%
50) Toluene-d8	10.40	98	37266	80.33	ug/l	-0.02
Spiked Amount			Recovery	=		160.66%
62) 4-Bromofluorobenzene	13.55	95	15215	72.36	ug/l	-0.01
Spiked Amount			Recovery	=		144.72%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.77	50	445	2.516	ug/l #	1
5) Bromomethane	2.15	94	1395	16.840	ug/l #	48
6) Chloroethane	2.36	64	203	2.529	ug/l #	1
8) Diethyl Ether	2.79	74	554	11.395	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.07	101	260	1.279	ug/l #	20
10) Methyl Iodide	3.31	142	334	1.161	ug/l #	29
12) 1,1-Dichloroethene	3.08	96	251	1.660	ug/l #	1
13) Acrolein	3.06	56	327	38.160	ug/l #	18
15) Acrylonitrile	4.32	53	208	9.020	ug/l #	11
16) Acetone	3.24	43	704	17.317	ug/l #	65
18) Methyl Acetate	3.56	43	437	5.675	ug/l #	57
25) 2-Butanone	6.05	43	380	9.464	ug/l #	58
29) Tetrahydrofuran	6.18	42	216	11.545	ug/l #	35
31) Cyclohexane	7.00	56	210	1.163	ug/l #	16
36) 1,1-Dichloropropene	7.03	75	887	4.005	ug/l #	42
37) Ethyl Acetate	6.05	43	380	4.094	ug/l #	73
41) Methacrylonitrile	6.57	41	178	1.523	ug/l #	37
43) Isopropyl Acetate	9.47	43	224	1.802	ug/l #	48
59) 2-Hexanone	11.35	43	533	8.612	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.55	75	6835	170.330	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.50	75	247	9.551	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	277	1.085	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

Instrument :

MSVOA_D

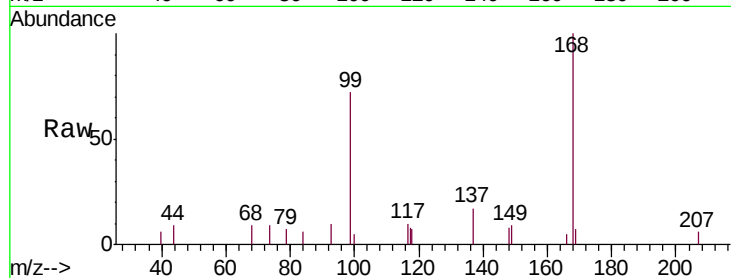
ClientSampleId :

Tot Ion:168 Resp: 18709

Ion Ratio Lower Upper

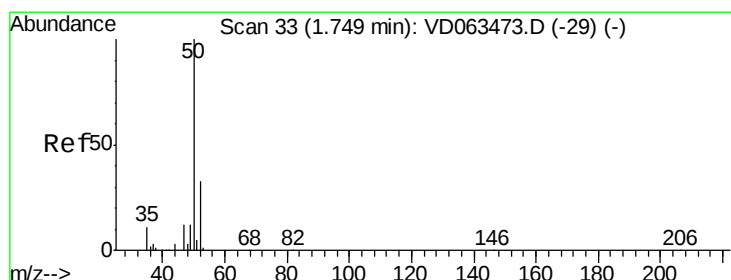
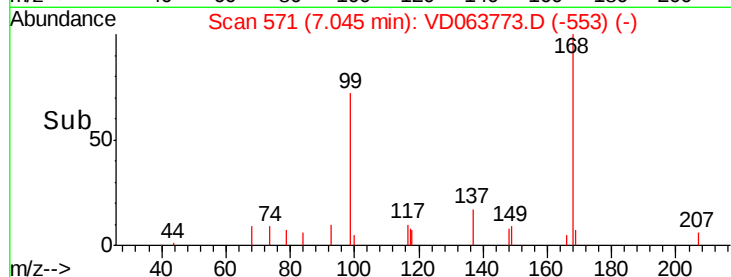
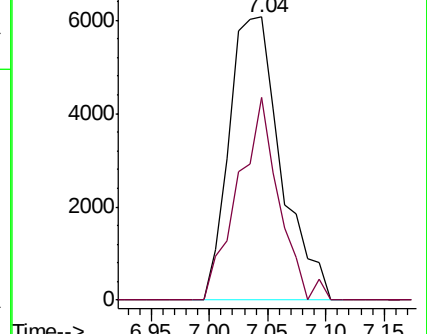
168 100

99 71.6 46.7 70.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 2.516 ug/l

RT: 1.77 min Scan# 35

Delta R.T. 0.02 min

Lab File: VD063773.D

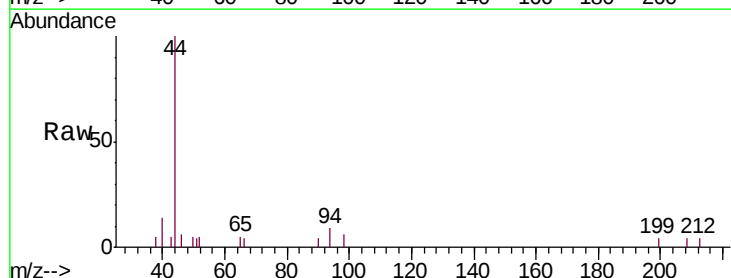
Acq: 23 Aug 2019 18:22

Tgt Ion: 50 Resp: 445

Ion Ratio Lower Upper

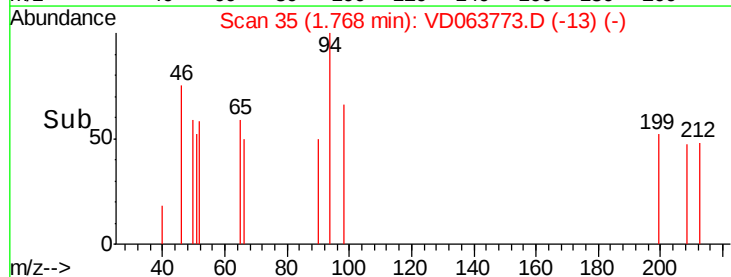
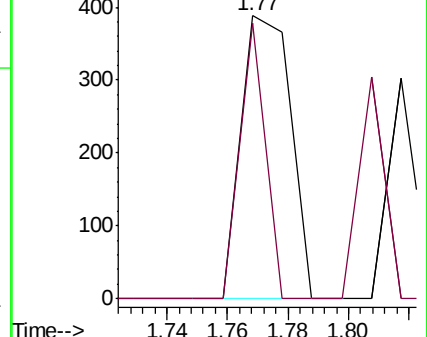
50 100

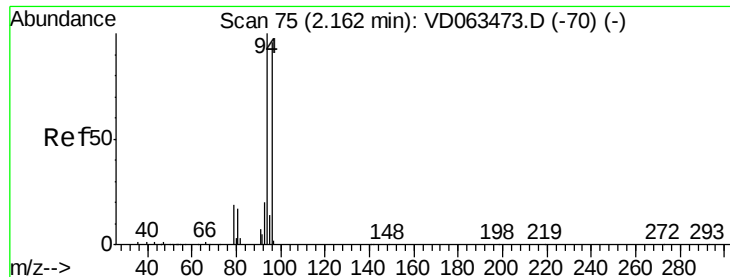
52 97.7 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 16.840 ug/l

RT: 2.15 min Scan# 74

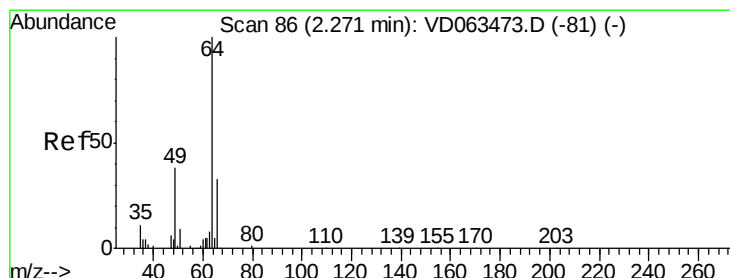
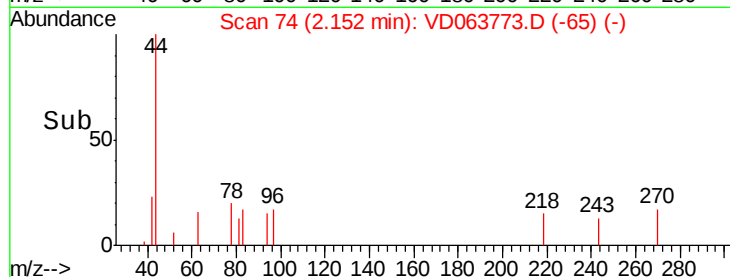
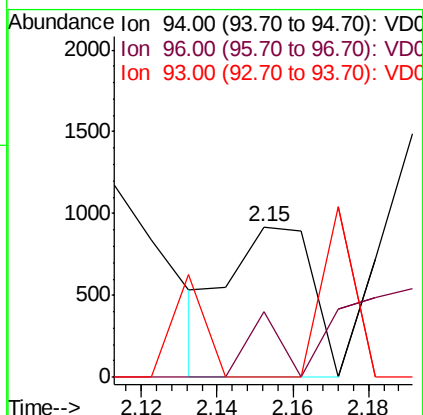
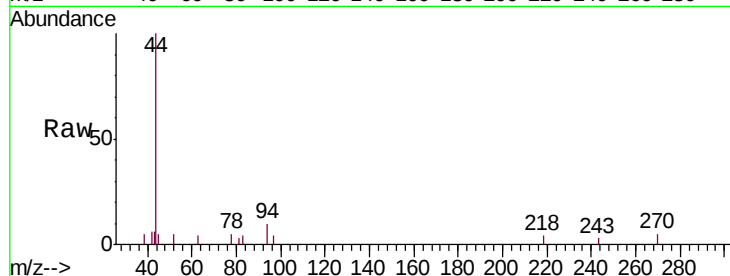
Delta R.T. -0.01 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	94	Resp:	1395
Ion	Ratio	Lower	Upper
94	100		
96	43.7	76.5	114.7#
93	0.0	15.8	23.8#



#6

Chloroethane

Concen: 2.529 ug/l

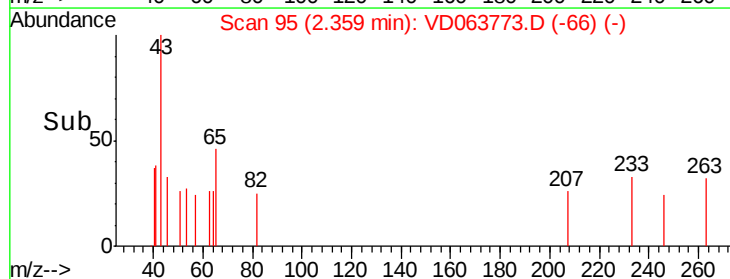
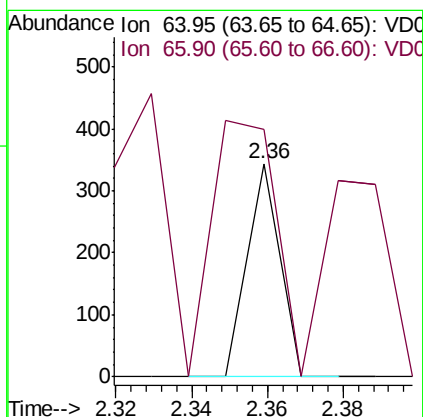
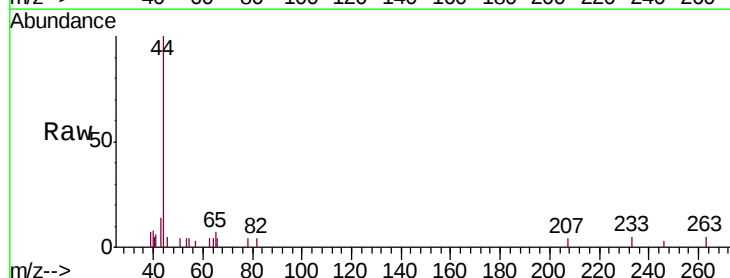
RT: 2.36 min Scan# 95

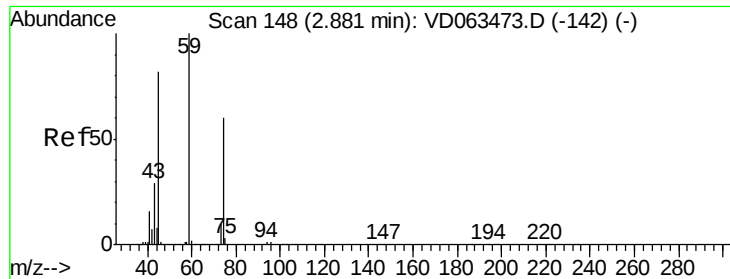
Delta R.T. 0.09 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

Tgt Ion:	64	Resp:	203
Ion	Ratio	Lower	Upper
64	100		
66	116.0	26.3	39.5#





#8

Diethyl Ether

Concen: 11.395 ug/l

RT: 2.79 min Scan# 139

Delta R.T. -0.09 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

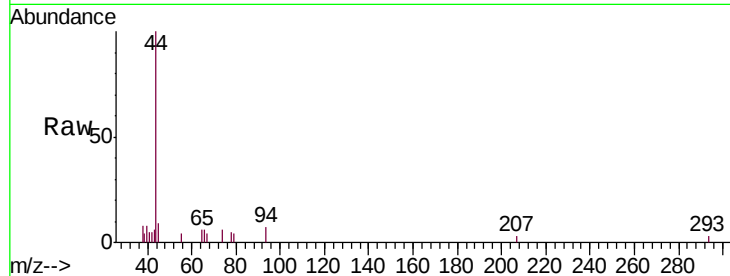
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 74 Resp: 554

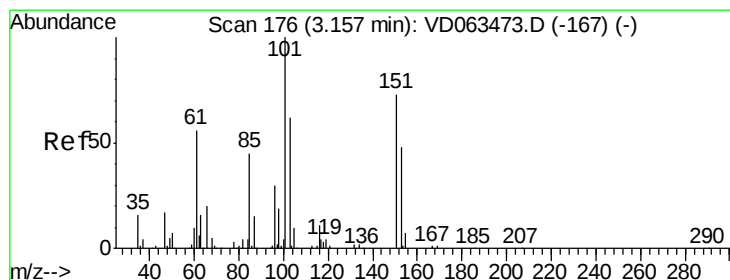
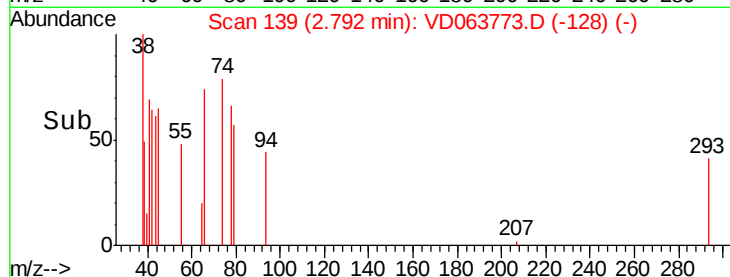
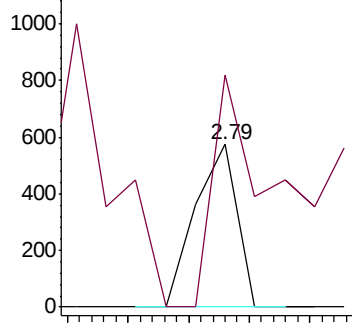
Ion Ratio Lower Upper

74 100

45 142.7 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.279 ug/l

RT: 3.07 min Scan# 167

Delta R.T. -0.09 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

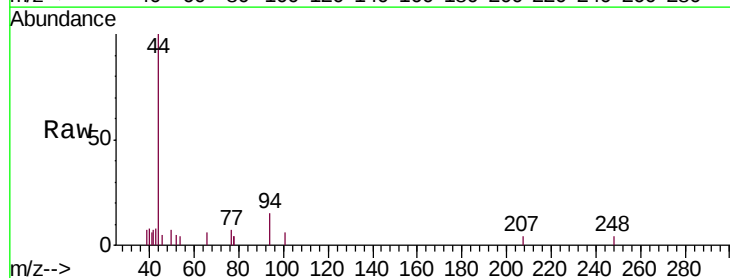
Tgt Ion: 101 Resp: 260

Ion Ratio Lower Upper

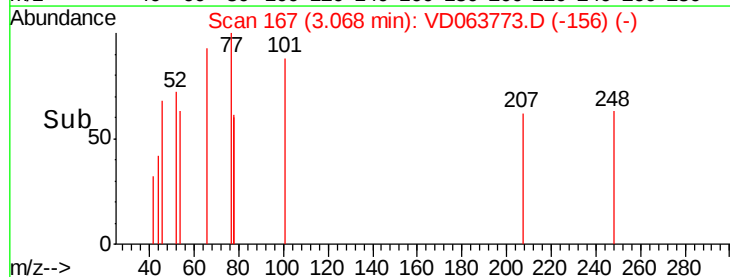
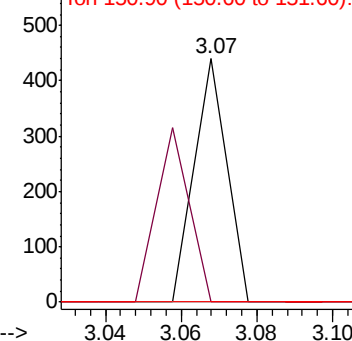
101 100

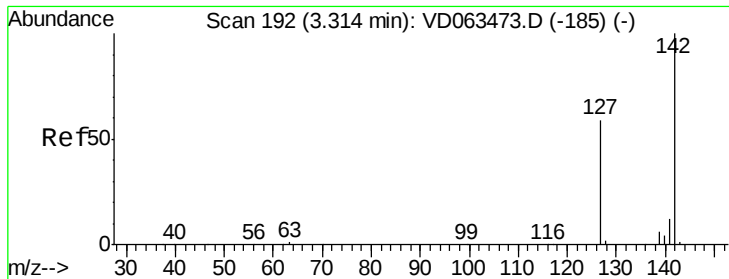
85 0.0 35.8 53.6#

151 0.0 58.6 88.0#



Abundance Ion 100.85 (100.55 to 101.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 150.90 (150.60 to 151.60): VDC

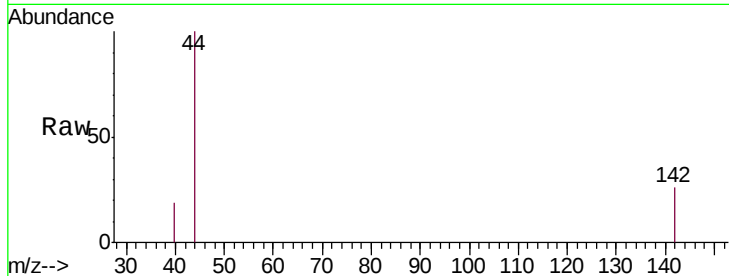




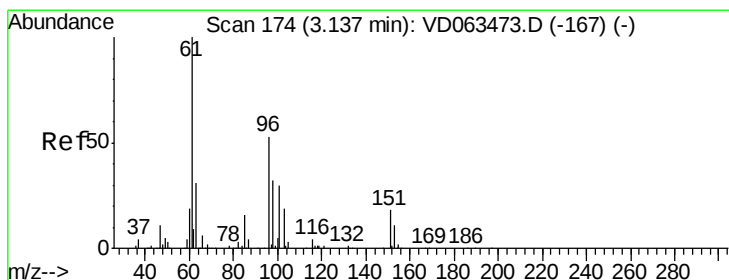
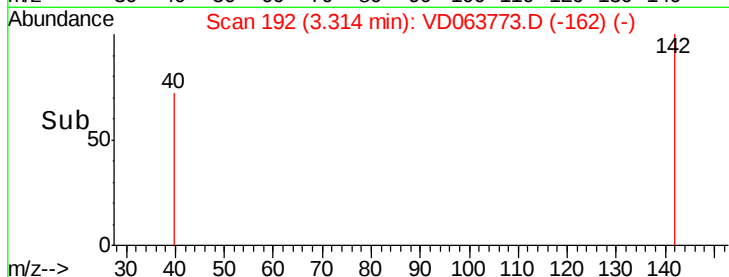
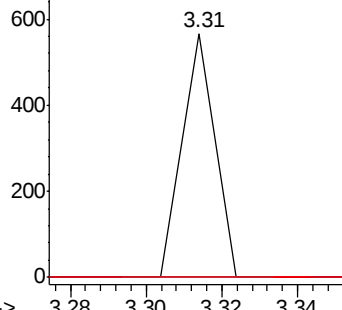
#10
Methvl Iodide
Concen: 1.161 ug/l
RT: 3.31 min Scan# 192
Delta R.T. -0.00 min
Lab File: VD063773.D
Acq: 23 Aug 2019 18:22

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:142 Resp: 334
Ion Ratio Lower Upper
142 100
127 0.0 47.2 70.8#
141 0.0 9.8 14.8#

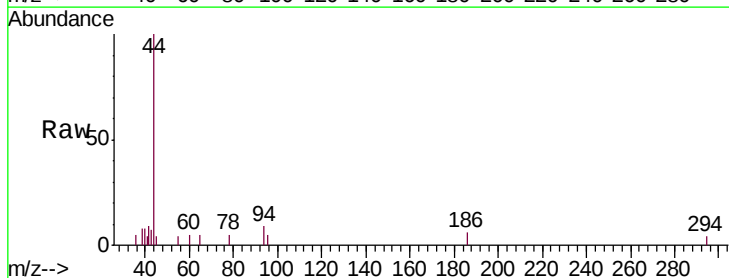


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

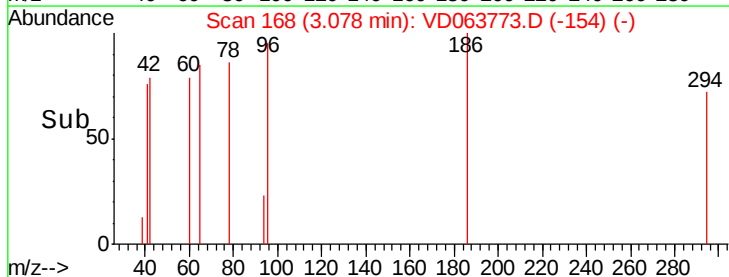
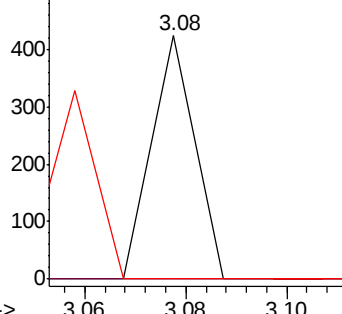


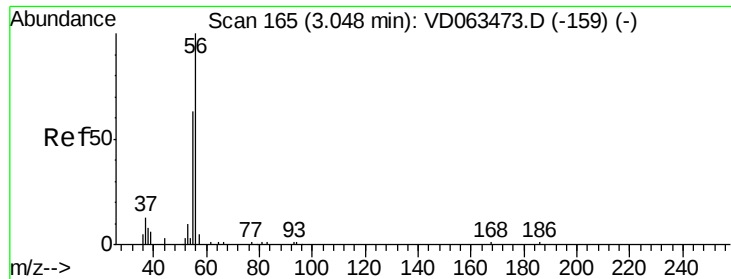
#12
1,1-Dichloroethene
Concen: 1.660 ug/l
RT: 3.08 min Scan# 168
Delta R.T. -0.06 min
Lab File: VD063773.D
Acq: 23 Aug 2019 18:22

Tgt Ion: 96 Resp: 251
Ion Ratio Lower Upper
96 100
61 0.0 151.7 227.5#
98 0.0 48.4 72.6#



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 38.160 ug/l

RT: 3.06 min Scan# 166

Delta R.T. 0.01 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

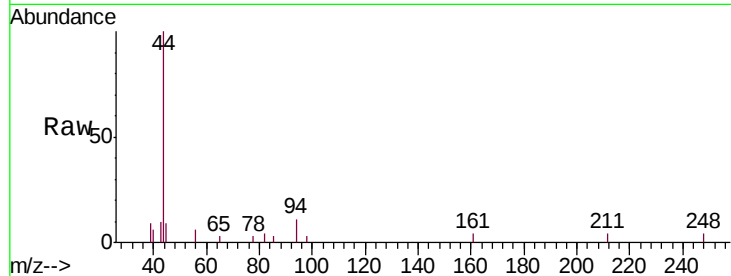
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 327

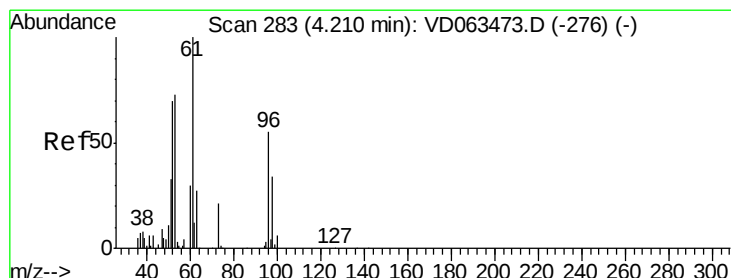
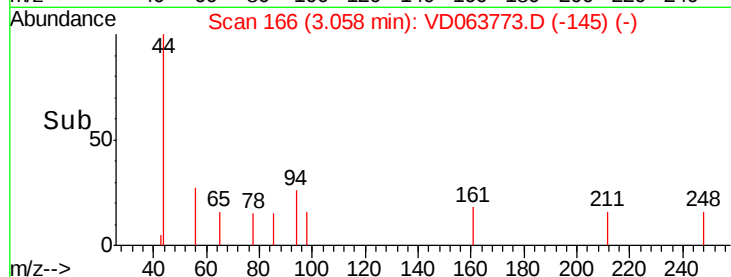
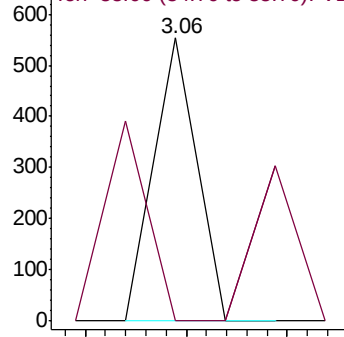
Ion Ratio Lower Upper

56 100

55 0.0 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC



#15

Acrylonitrile

Concen: 9.020 ug/l

RT: 4.32 min Scan# 294

Delta R.T. 0.11 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

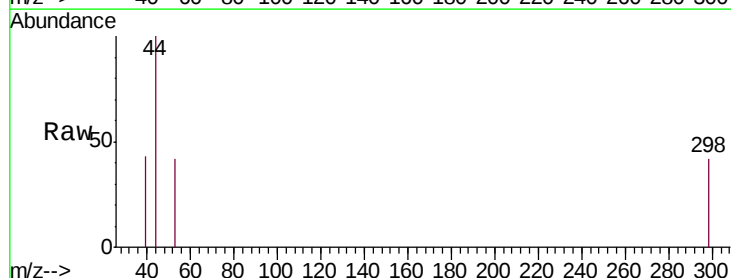
Tgt Ion: 53 Resp: 208

Ion Ratio Lower Upper

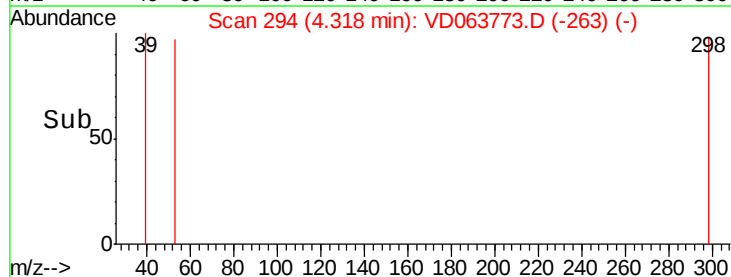
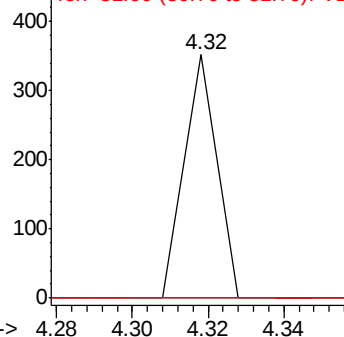
53 100

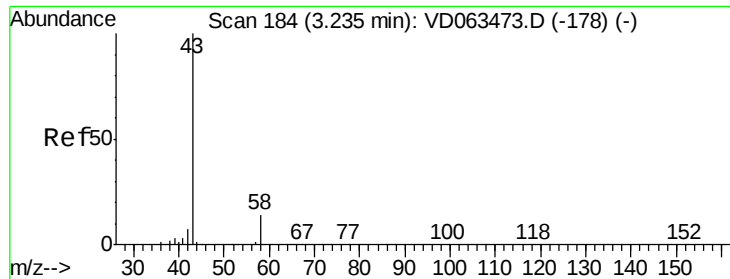
52 0.0 77.4 116.0#

51 0.0 36.7 55.1#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 17.317 ug/l

RT: 3.24 min Scan# 185

Delta R.T. 0.01 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

Instrument :

MSVOA_D

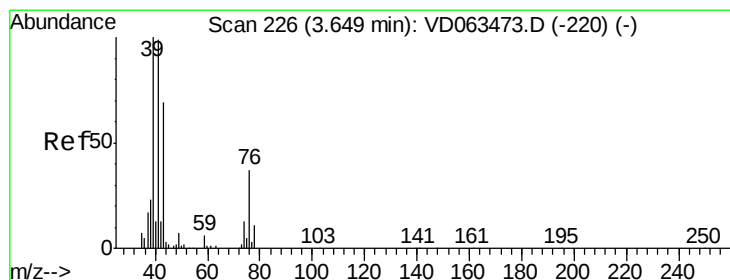
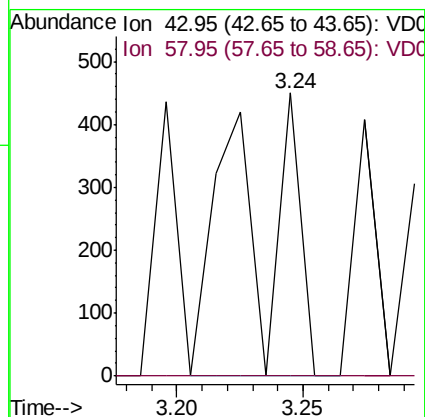
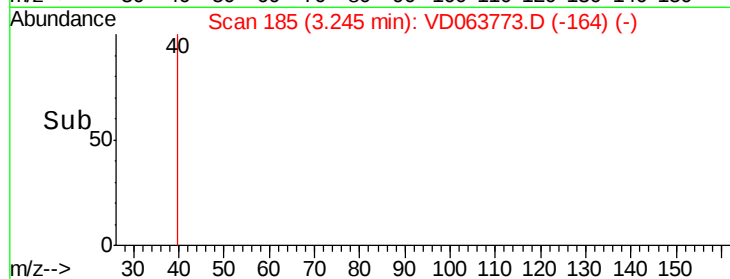
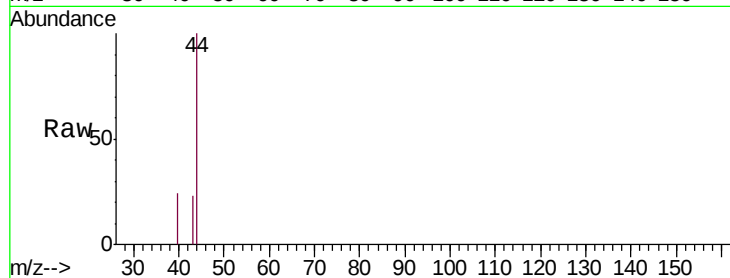
ClientSampleId :

Tot Ion: 43 Resp: 704

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.2#



#18

Methyl Acetate

Concen: 5.675 ug/l

RT: 3.56 min Scan# 217

Delta R.T. -0.09 min

Lab File: VD063773.D

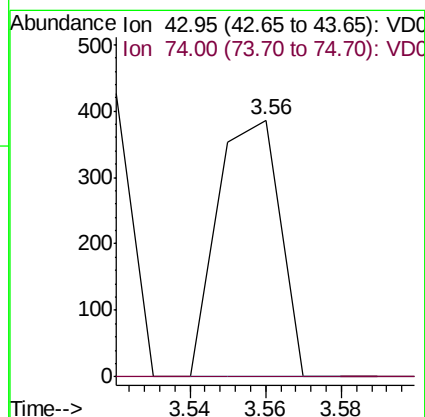
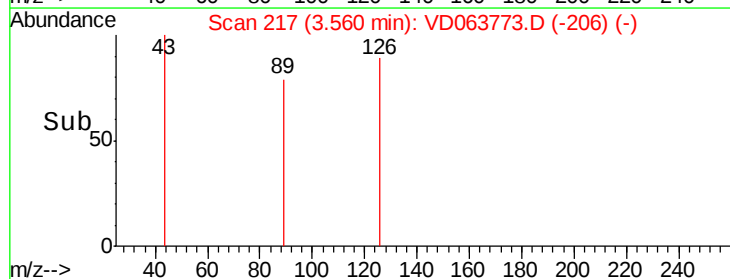
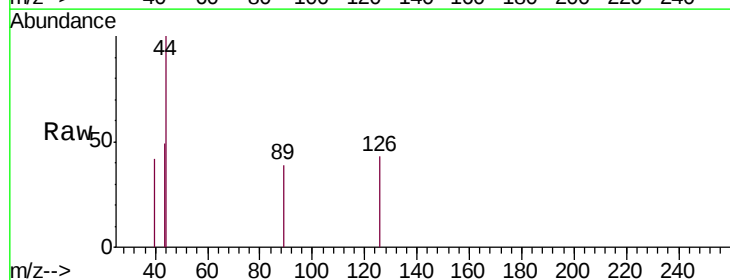
Acq: 23 Aug 2019 18:22

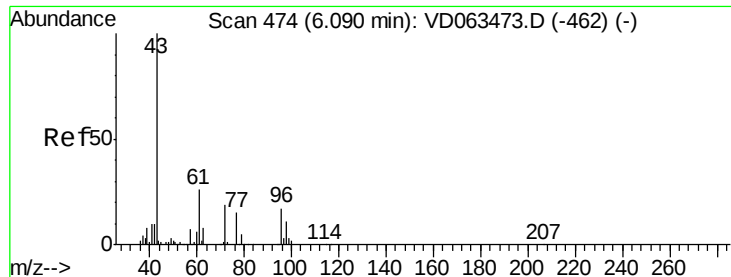
Tgt Ion: 43 Resp: 437

Ion Ratio Lower Upper

43 100

74 0.0 15.4 23.2#





#25

2-Butanone

Concen: 9.464 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.04 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

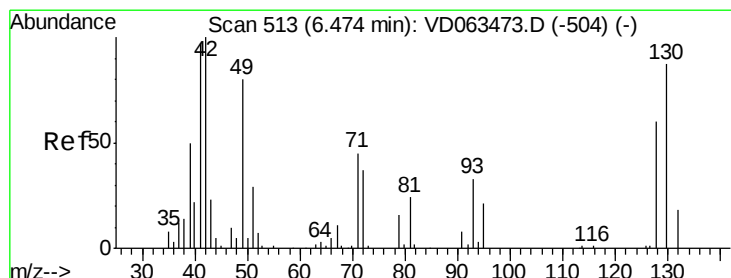
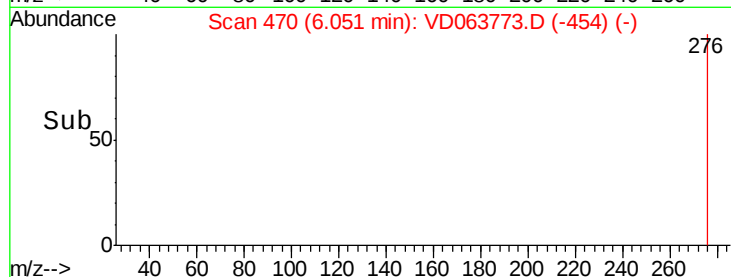
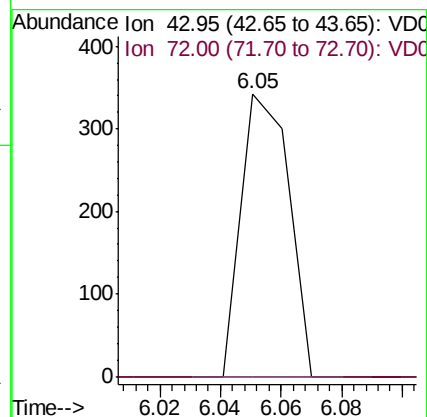
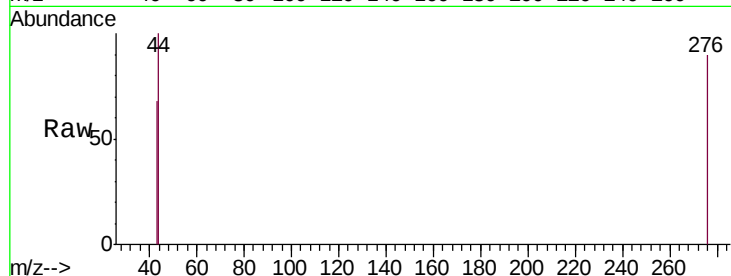
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 380

Ion Ratio Lower Upper

43 100

72 0.0 15.1 22.7#



#29

Tetrahydrofuran

Concen: 11.545 ug/l

RT: 6.18 min Scan# 483

Delta R.T. -0.30 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

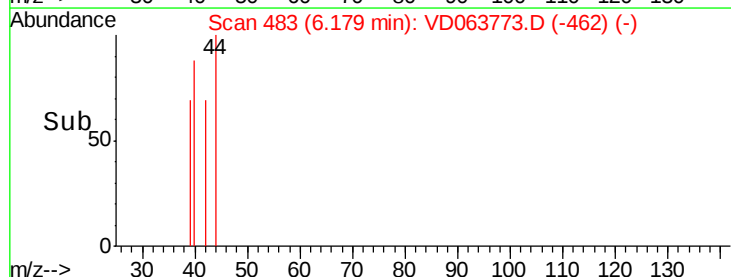
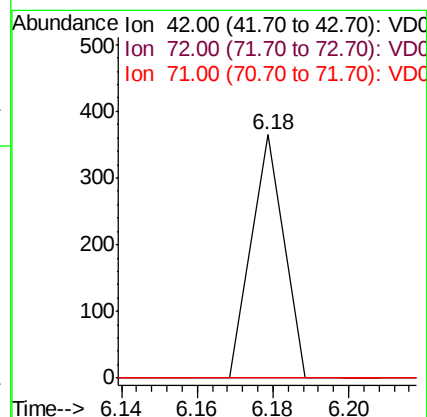
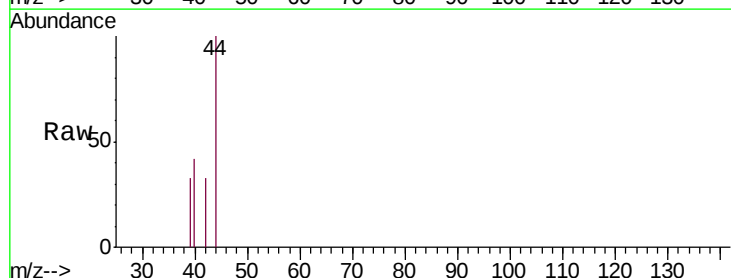
Tgt Ion: 42 Resp: 216

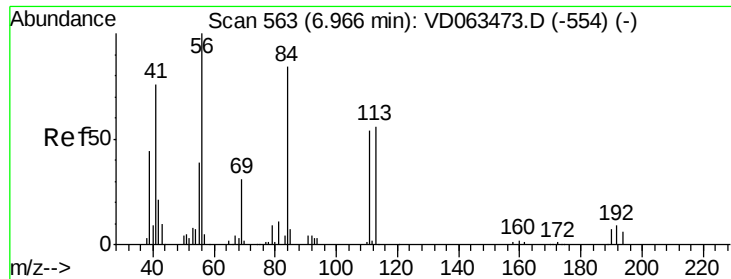
Ion Ratio Lower Upper

42 100

72 0.0 31.5 47.3#

71 0.0 33.8 50.8#

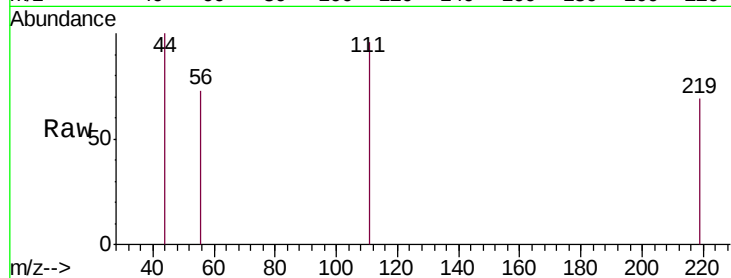




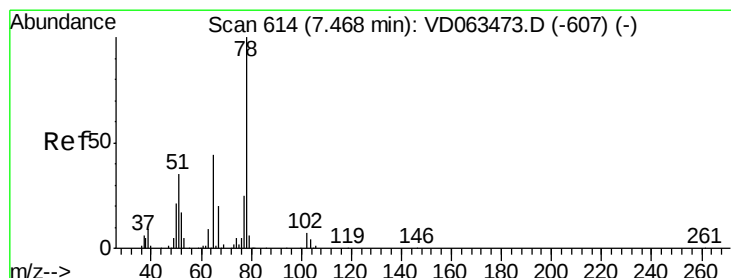
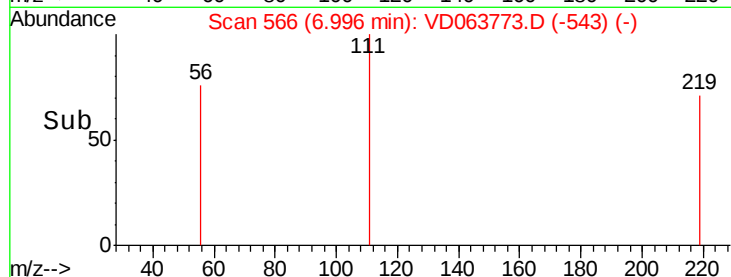
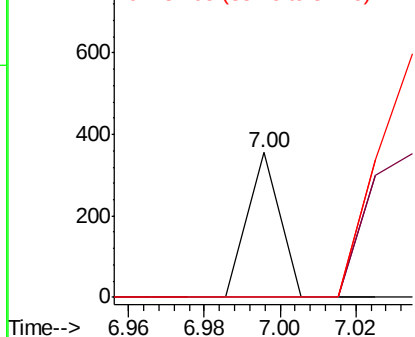
#31
Cyclohexane
Concen: 1.163 ug/l
RT: 7.00 min Scan# 566
Delta R.T. 0.03 min
Lab File: VD063773.D
Acq: 23 Aug 2019 18:22

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 210
Ion Ratio Lower Upper
56 100
69 0.0 25.0 37.6#
84 0.0 69.7 104.5#

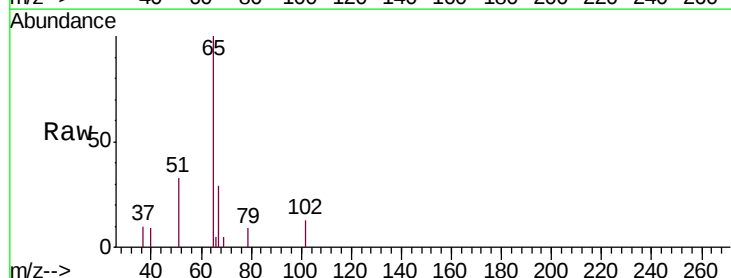


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

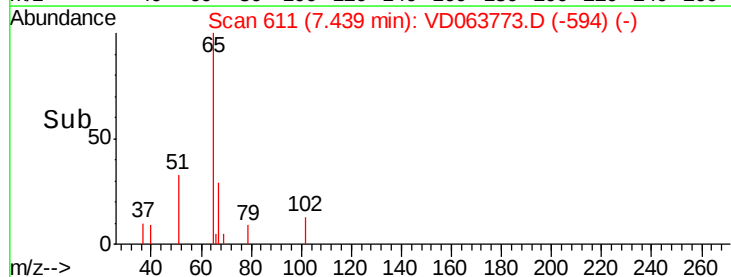
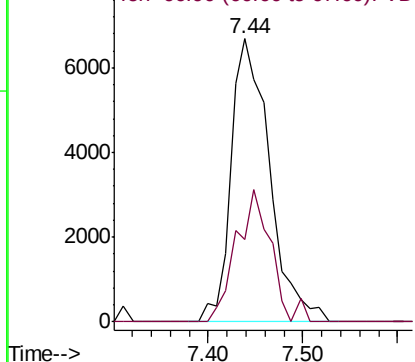


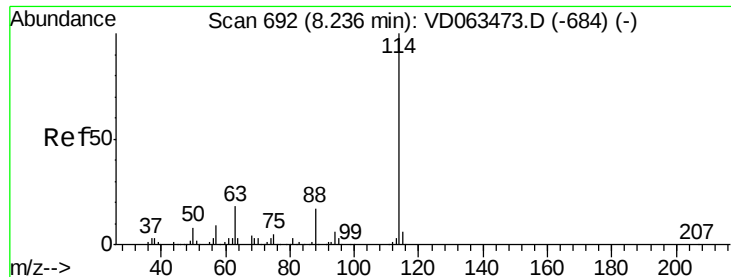
#33
1,2-Dichloroethane-d4
Concen: 93.852 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.03 min
Lab File: VD063773.D
Acq: 23 Aug 2019 18:22

Tgt Ion: 65 Resp: 18769
Ion Ratio Lower Upper
65 100
67 29.3 0.0 89.2



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

Instrument :

MSVOA_D

ClientSampleId :

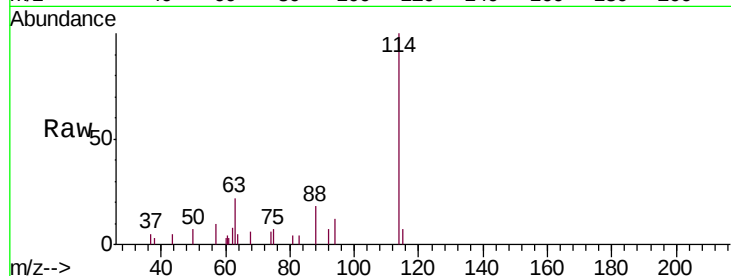
Tot Ion:114 Resp: 25054

Ion Ratio Lower Upper

114 100

63 22.1 0.0 36.2

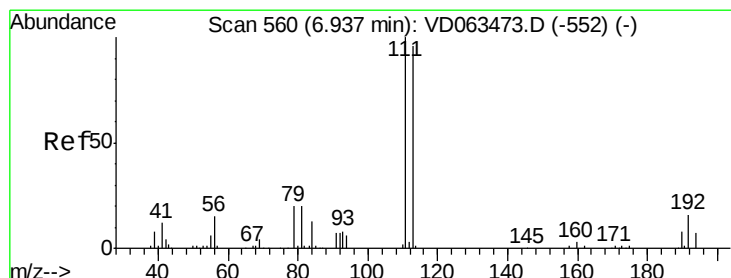
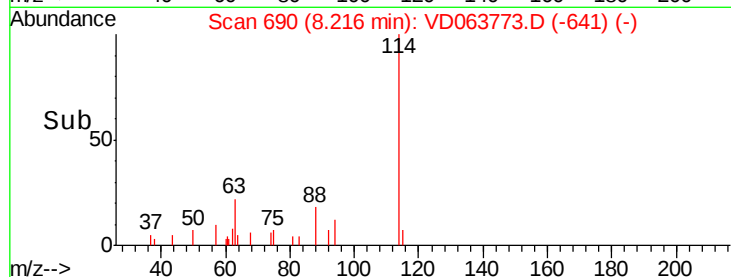
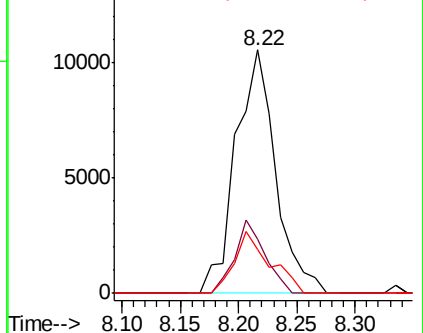
88 17.9 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 75.325 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

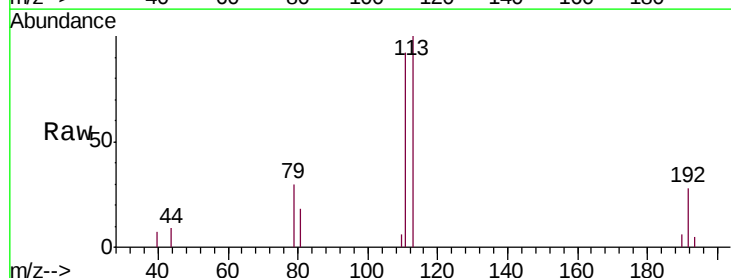
Tgt Ion:113 Resp: 15894

Ion Ratio Lower Upper

113 100

111 91.8 83.1 124.7

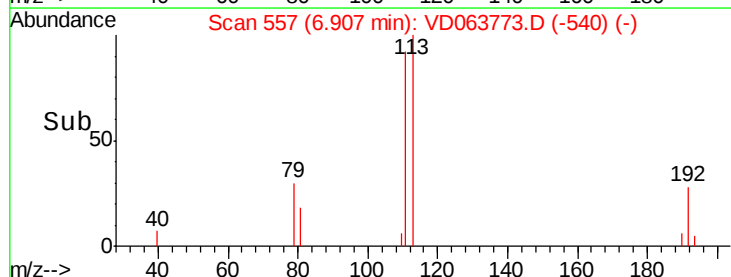
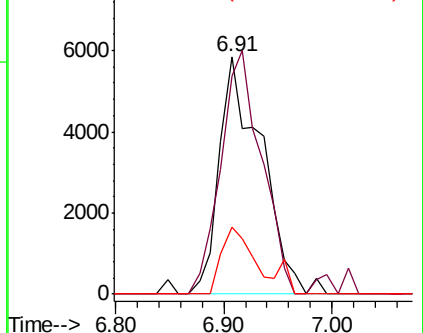
192 28.0 13.1 19.7#

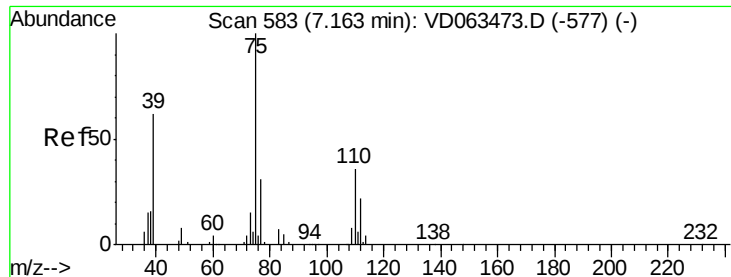


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.005 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.13 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

Instrument :

MSVOA_D

ClientSampleId :

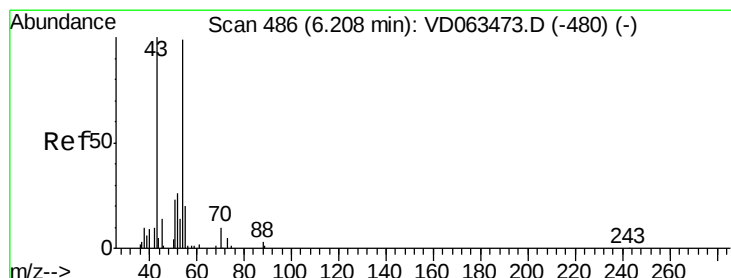
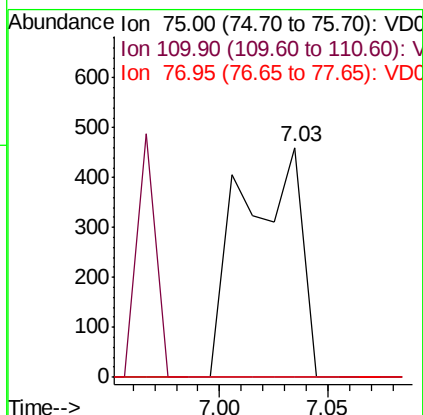
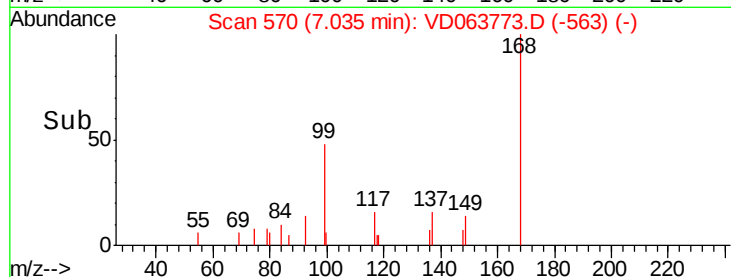
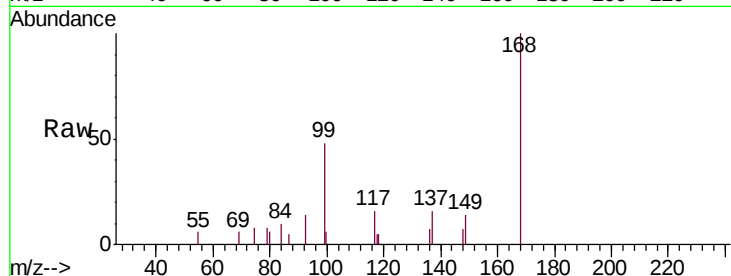
Tot Ion: 75 Resp: 887

Ion Ratio Lower Upper

75 100

110 0.0 17.6 52.8#

77 0.0 24.3 36.5#



#37

Ethyl Acetate

Concen: 4.094 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.16 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

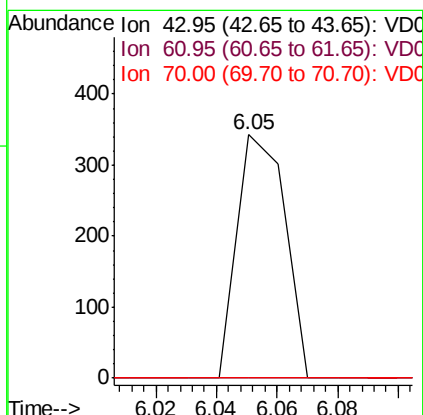
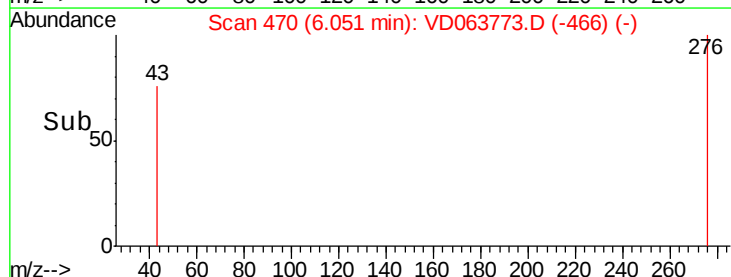
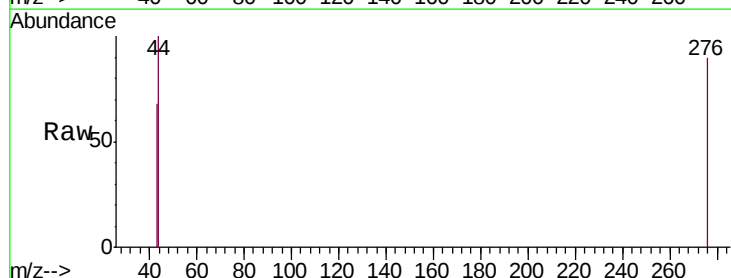
Tgt Ion: 43 Resp: 380

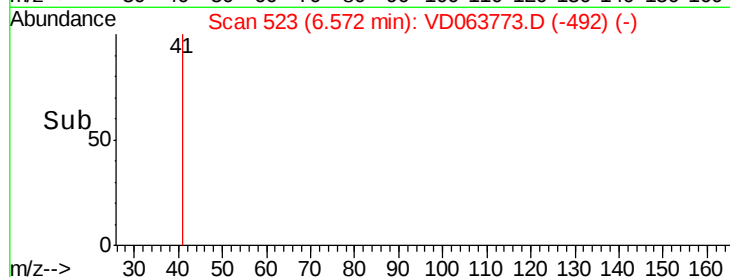
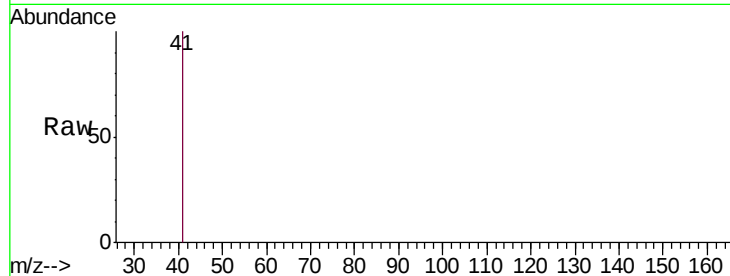
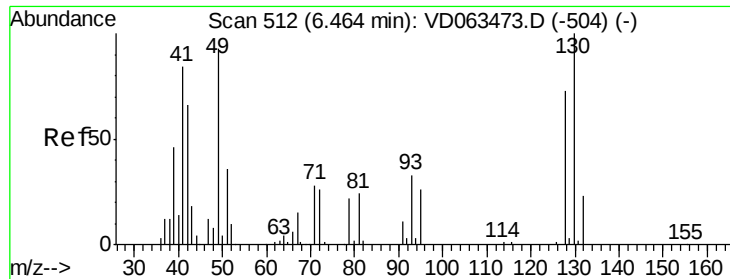
Ion Ratio Lower Upper

43 100

61 0.0 9.0 13.6#

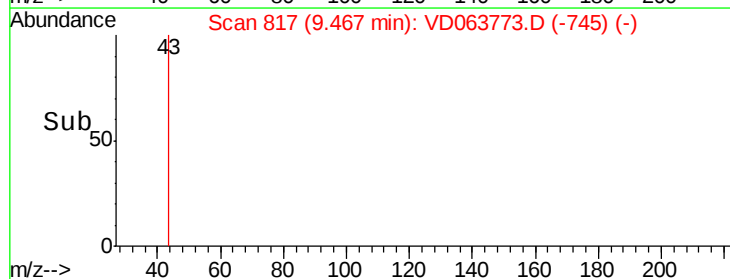
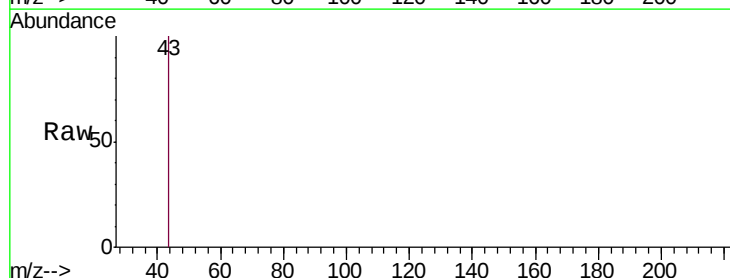
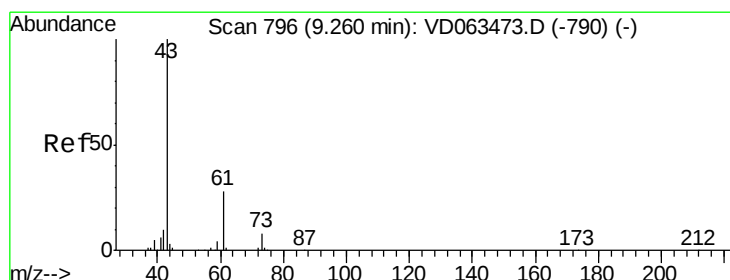
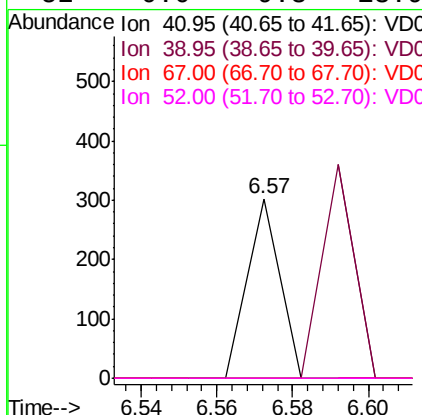
70 0.0 6.9 10.3#





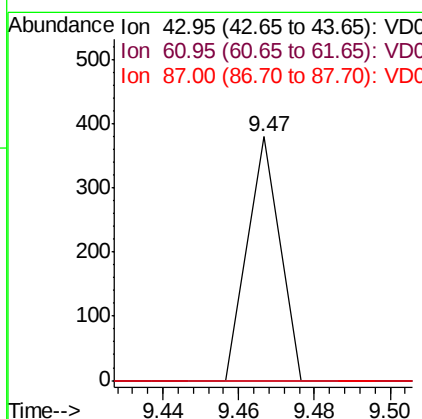
#41
Methacrylonitrile
Concen: 1.523 ug/l
RT: 6.57 min Scan# 523
Delta R.T. 0.11 min
Lab File: VD063773.D
Acq: 23 Aug 2019 18:22

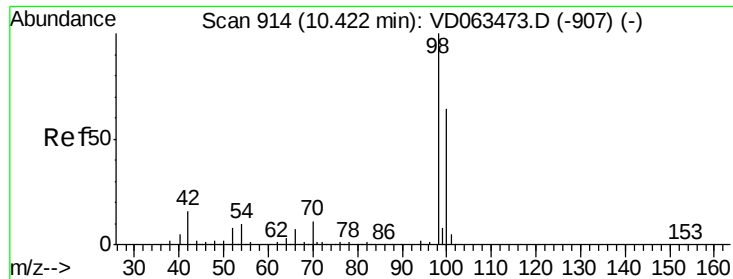
Tot Ion: 41 Resp: 178
Ion Ratio Lower Upper
41 100
39 0.0 44.6 66.8#
67 0.0 14.4 21.6#
52 0.0 9.3 13.9#



#43
Isopropyl Acetate
Concen: 1.802 ug/l
RT: 9.47 min Scan# 817
Delta R.T. 0.21 min
Lab File: VD063773.D
Acq: 23 Aug 2019 18:22

Tgt Ion: 43 Resp: 224
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.2#
87 0.0 0.2 0.4#

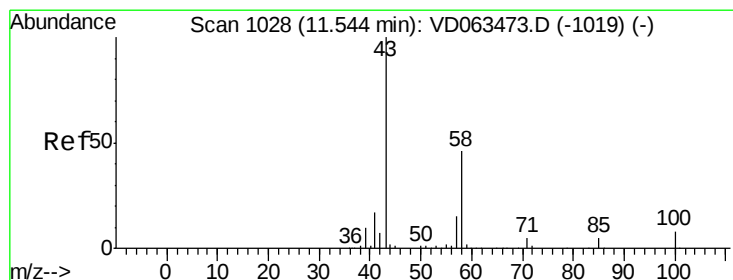
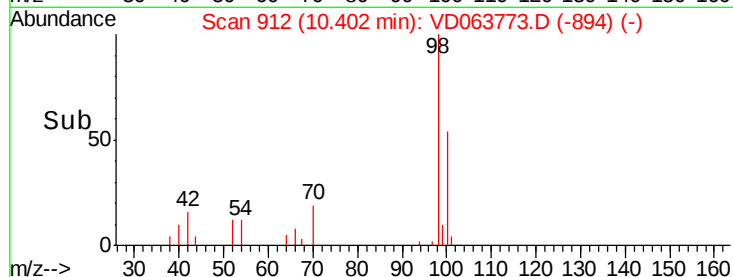
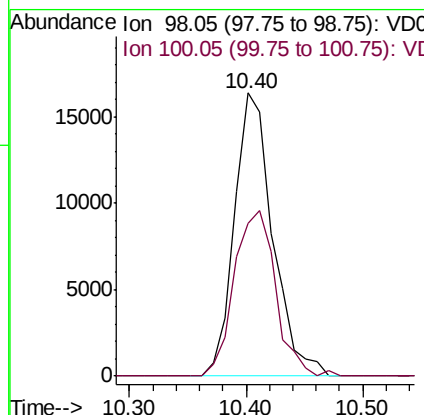
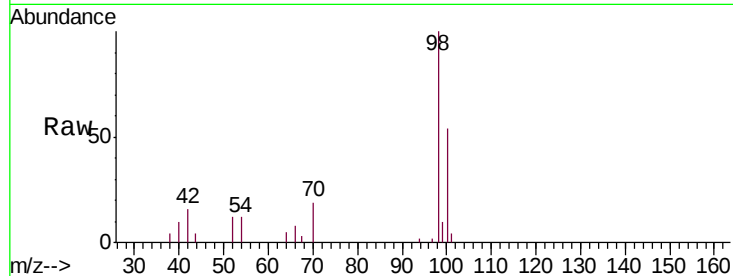




#50
Toluene-d8
Concen: 80.331 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.02 min
Lab File: VD063773.D
Acq: 23 Aug 2019 18:22

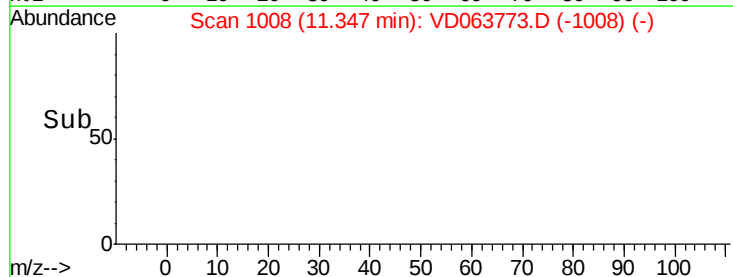
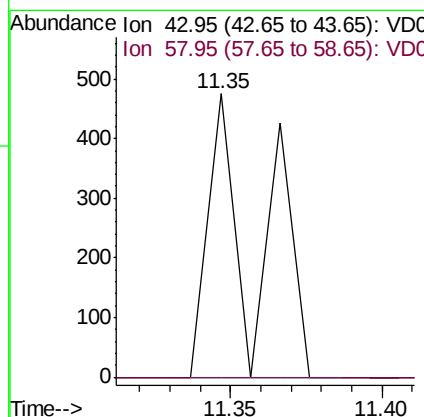
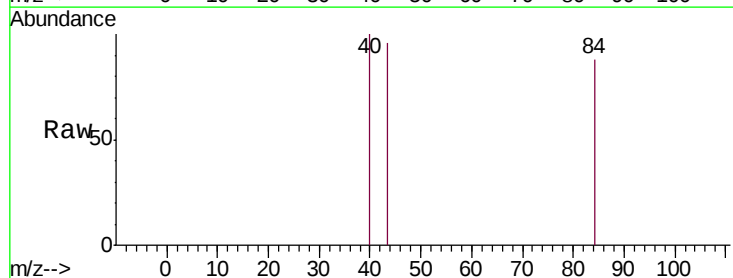
Instrument :
MSVOA_D
ClientSampleId :

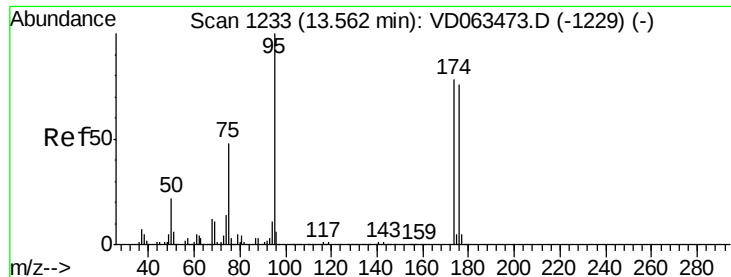
Tot Ion: 98 Resp: 37266
Ion Ratio Lower Upper
98 100
100 54.1 51.7 77.5



#59
2-Hexanone
Concen: 8.612 ug/l
RT: 11.35 min Scan# 1008
Delta R.T. -0.20 min
Lab File: VD063773.D
Acq: 23 Aug 2019 18:22

Tgt Ion: 43 Resp: 533
Ion Ratio Lower Upper
43 100
58 0.0 23.1 69.2#

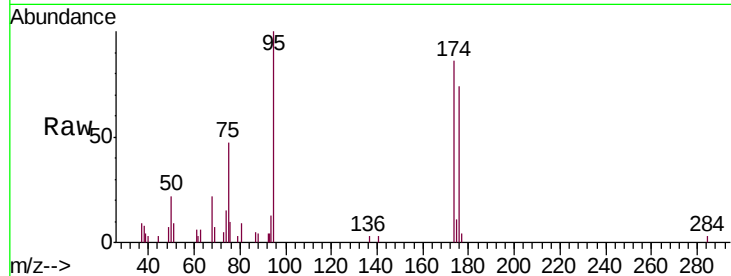




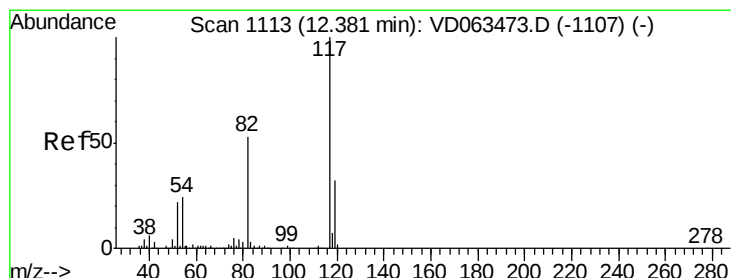
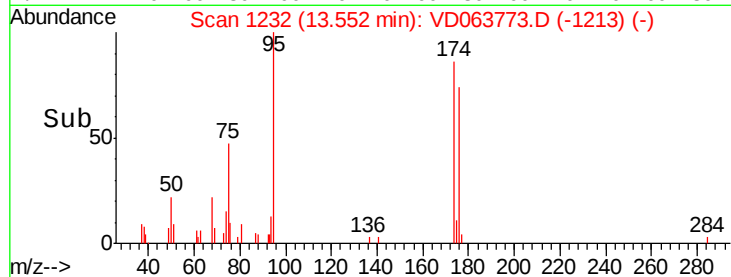
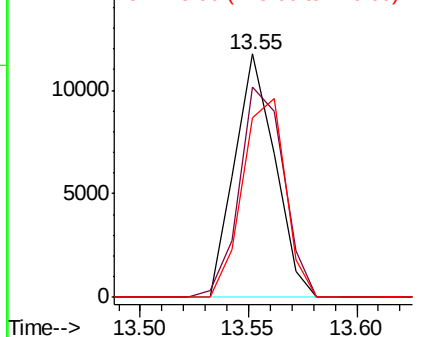
#62
4-Bromofluorobenzene
Concen: 72.362 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD063773.D
Acq: 23 Aug 2019 18:22

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	86.4	0.0	155.4
176	73.7	0.0	152.4

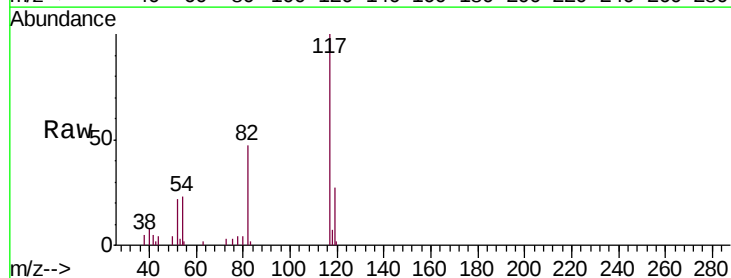


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

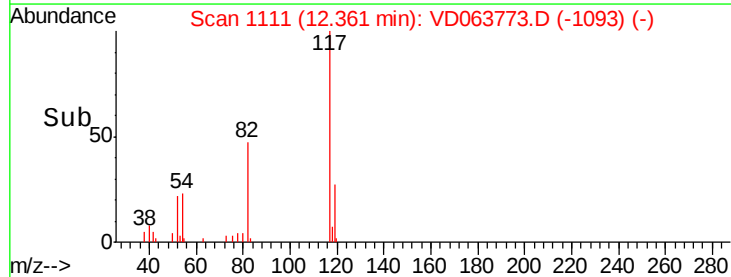
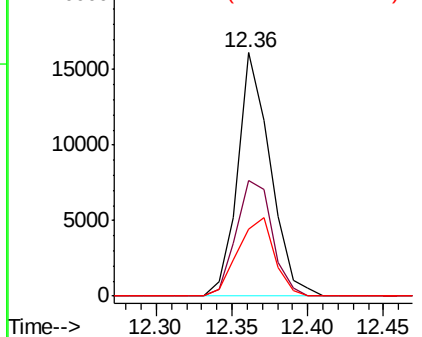


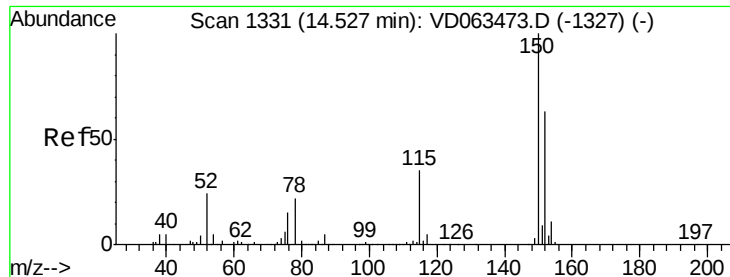
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063773.D
Acq: 23 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
117	100		
82	47.2	42.0	63.0
119	27.3	25.4	38.0



Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

Instrument :

MSVOA_D

ClientSampled :

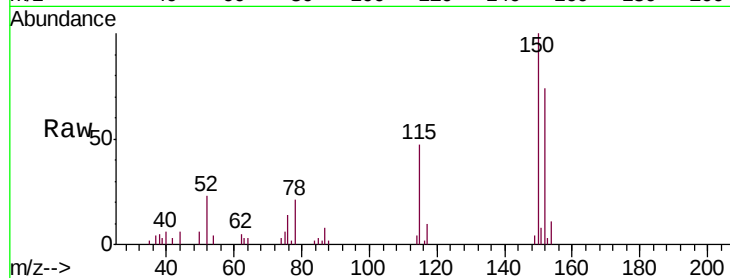
Tot Ion:152 Resp: 13009

Ion Ratio Lower Upper

152 100

115 64.2 30.9 92.7

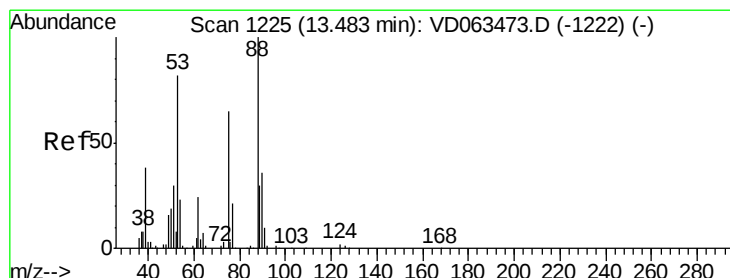
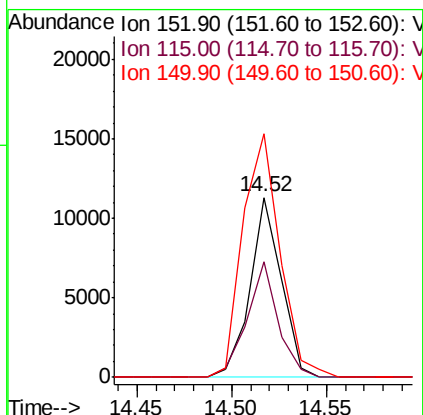
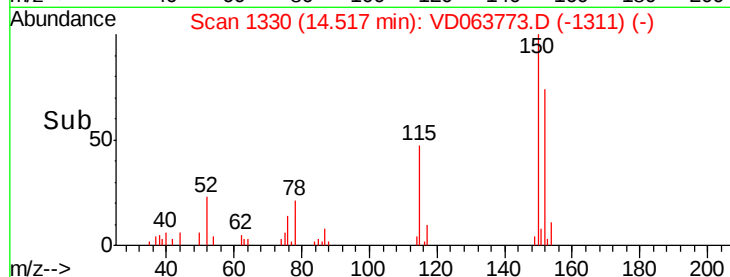
150 135.5 0.0 318.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 170.330 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

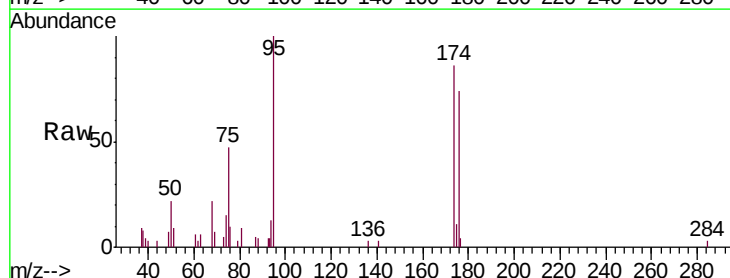
Tgt Ion: 75 Resp: 6835

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

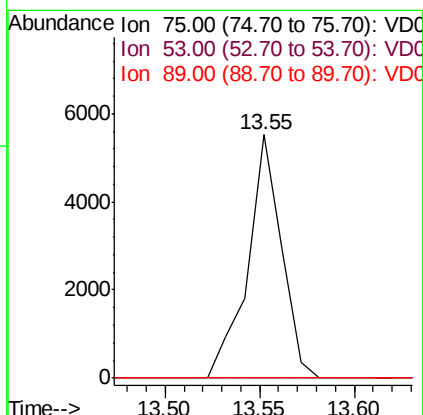
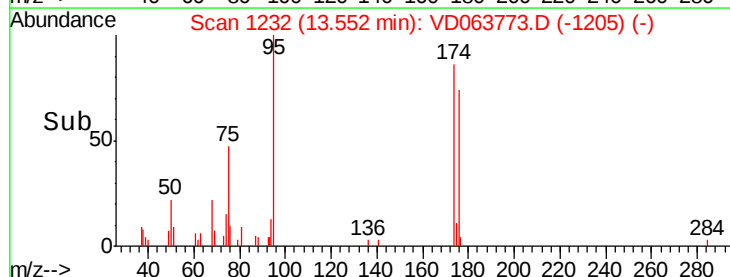
89 0.0 37.0 55.6#

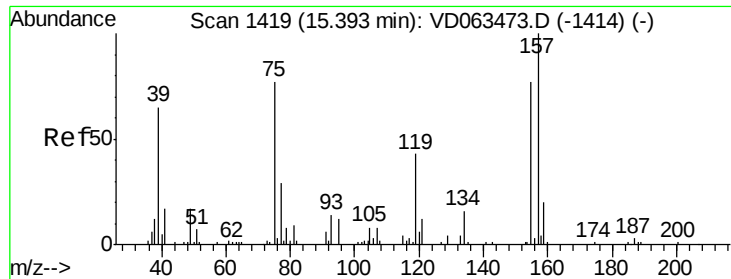


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 9.551 ug/l

RT: 15.50 min Scan# 1430

Delta R.T. 0.11 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

Instrument :

MSVOA_D

ClientSampled :

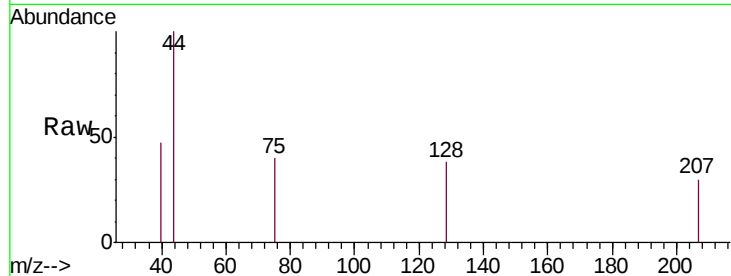
Tot Ion: 75 Resp: 247

Ion Ratio Lower Upper

75 100

155 0.0 50.1 150.3#

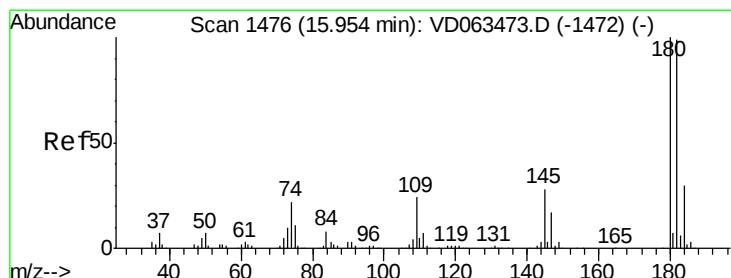
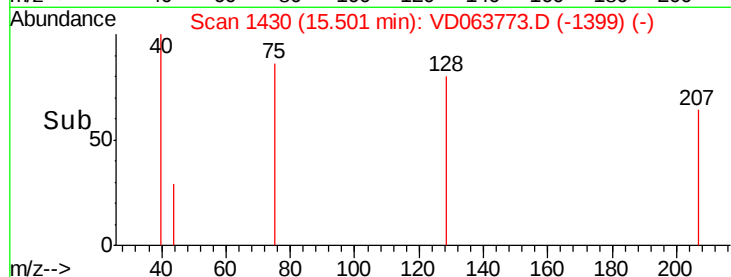
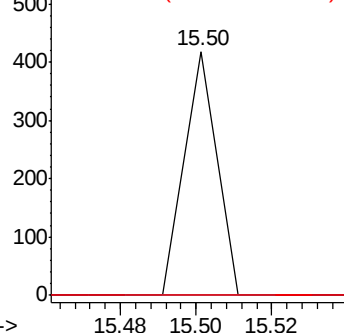
157 0.0 65.0 195.1#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#93

1,2,4-Trichlorobenzene

Concen: 1.085 ug/l

RT: 15.94 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VD063773.D

Acq: 23 Aug 2019 18:22

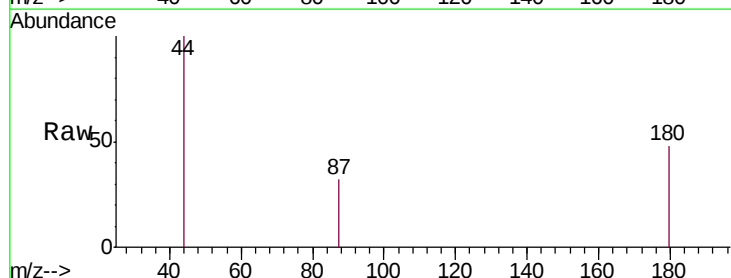
Tgt Ion: 180 Resp: 277

Ion Ratio Lower Upper

180 100

182 0.0 49.7 149.1#

145 0.0 14.1 42.2#



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

