

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062819\
 Data File : VD062975.D
 Acq On : 28 Jun 2019 19:29
 Operator : VA/AP
 Sample : K3555-09
 Misc : 6.22g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SAMPLE-9

Quant Time: Jun 29 00:17:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	24979	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.19	114	40856	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.35	117	37789	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	13991	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.42	65	28069	103.38	ug/l	-0.04
Spiked Amount			Recovery	=	206.76%	
35) Dibromofluoromethane	6.90	113	21842	63.40	ug/l	-0.03
Spiked Amount			Recovery	=	126.80%	
50) Toluene-d8	10.38	98	37171	49.58	ug/l	-0.03
Spiked Amount			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	13.54	95	15670	45.96	ug/l	-0.01
Spiked Amount			Recovery	=	91.92%	

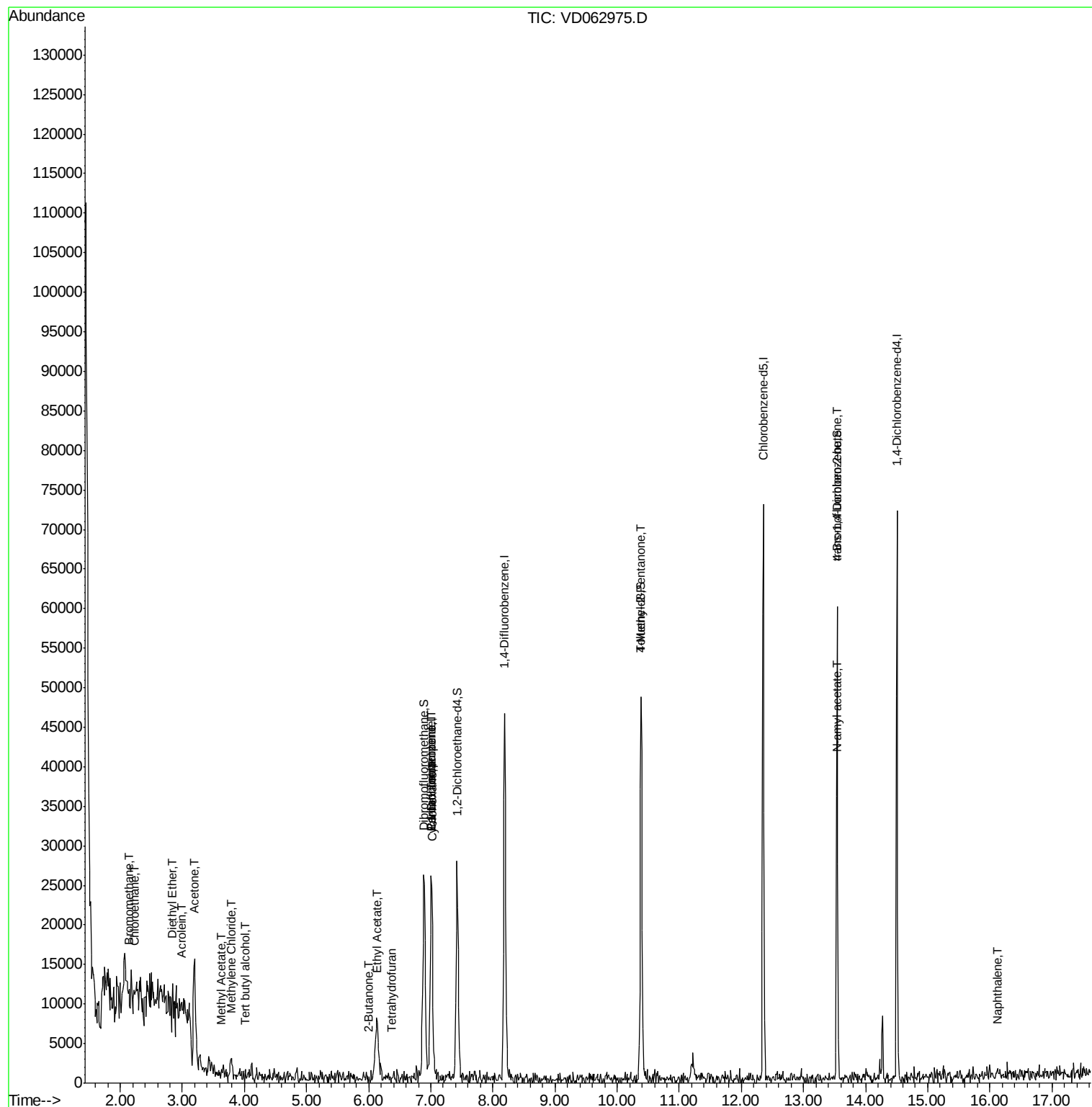
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	789	6.990	ug/l #	13
6) Chloroethane	2.23	64	218	1.998	ug/l #	46
8) Diethyl Ether	2.84	74	316	5.099	ug/l	44
11) Tert butyl alcohol	4.02	59	218	17.629	ug/l #	77
13) Acrolein	2.99	56	200	15.842	ug/l #	15
16) Acetone	3.20	43	27830	512.789	ug/l #	88
18) Methyl Acetate	3.62	43	253	3.087	ug/l #	58
20) Methylene Chloride	3.79	84	1009	4.873	ug/l #	56
25) 2-Butanone	6.00	43	235	4.628	ug/l #	64
29) Tetrahydrofuran	6.38	42	185	7.700	ug/l #	33
31) Cyclohexane	7.03	56	270	1.059	ug/l #	13
36) 1,1-Dichloropropene	7.01	75	1711	4.424	ug/l #	46
37) Ethyl Acetate	6.14	43	901	4.545	ug/l #	69
38) Carbon Tetrachloride	7.01	117	1602	2.754	ug/l #	13
51) 4-Methyl-2-Pentanone	10.39	43	459	3.193	ug/l #	41
74) N-amyl acetate	13.52	43	236	1.083	ug/l #	51
81) trans-1,4-Dichloro-2-buten	13.54	75	7018	165.789	ug/l #	2
95) Naphthalene	16.11	128	716	1.767	ug/l #	70

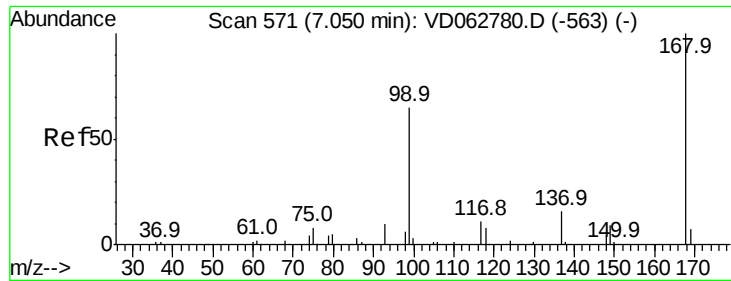
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.01 min Scan# 567

Delta R.T. -0.04 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

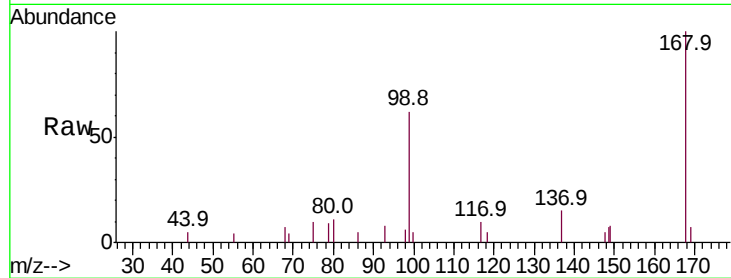
SAMPLE-9

Tot Ion:168 Resp: 24979

Ion Ratio Lower Upper

168 100

99 61.7 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.01

10000

8000

6000

4000

2000

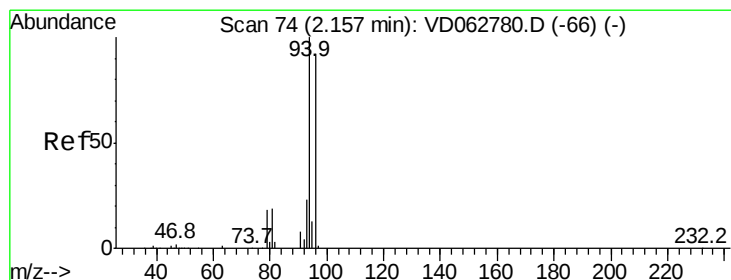
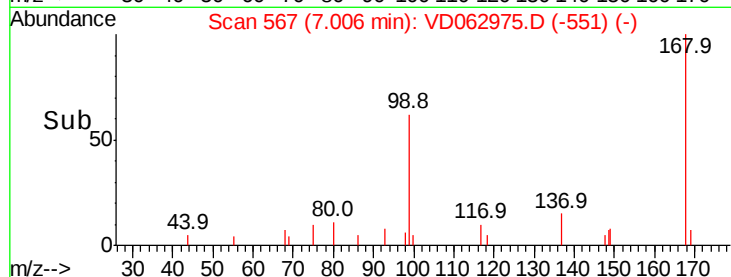
0

Time-->

6.90

7.00

7.10



#5

Bromomethane

Concen: 6.990 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

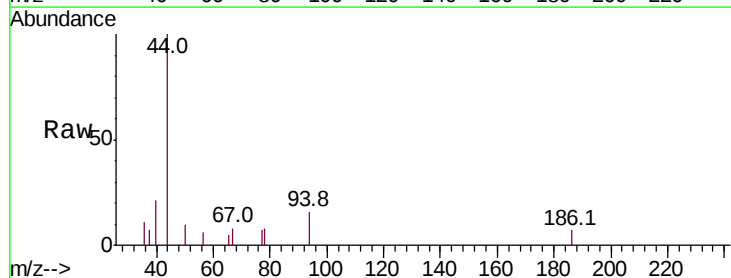
Tgt Ion: 94 Resp: 789

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.2#

93 0.0 18.2 27.4#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

1200

1000

800

600

400

200

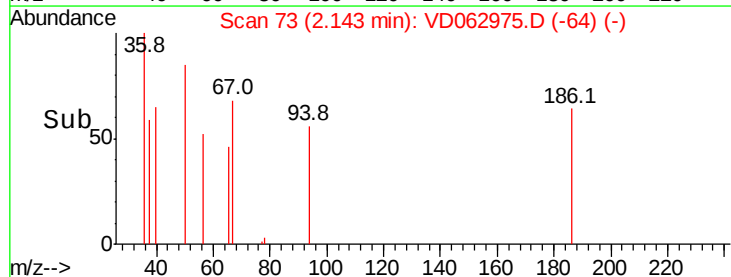
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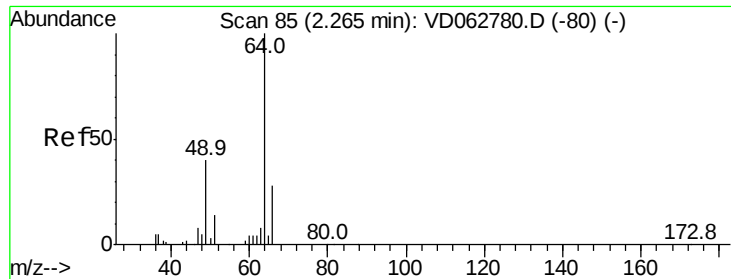
Time-->

2.12

2.14

2.16





#6

Chloroethane

Concen: 1.998 ug/l

RT: 2.23 min Scan# 82

Delta R.T. -0.03 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

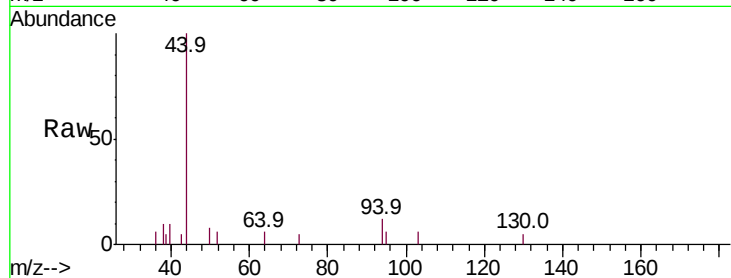
SAMPLE-9

Tot Ion: 64 Resp: 218

Ion Ratio Lower Upper

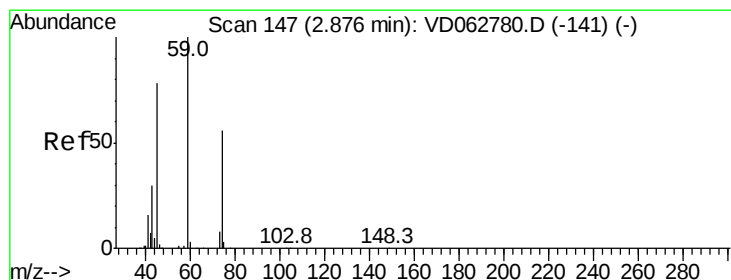
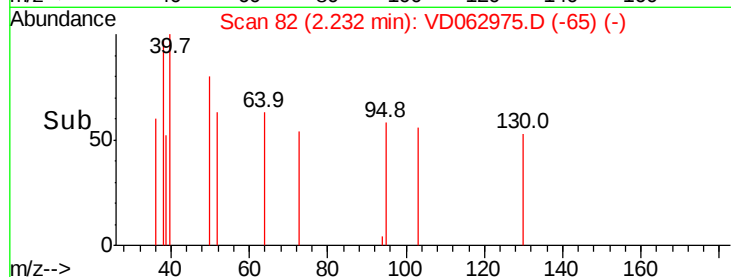
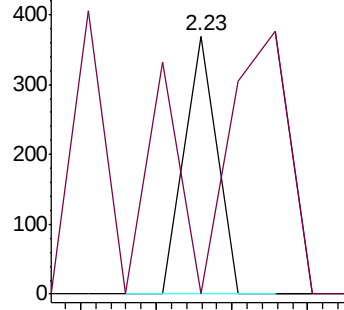
64 100

66 0.0 23.0 34.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Diethyl Ether

Concen: 5.099 ug/l

RT: 2.84 min Scan# 144

Delta R.T. -0.03 min

Lab File: VD062975.D

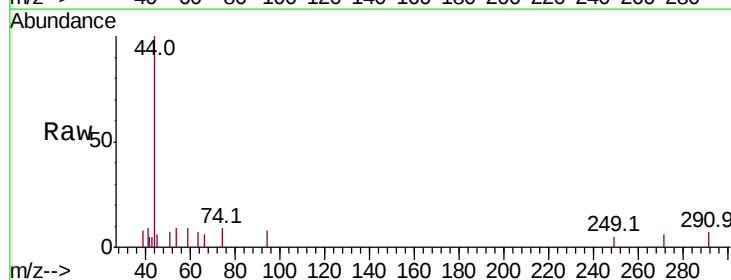
Acq: 28 Jun 2019 19:29

Tgt Ion: 74 Resp: 316

Ion Ratio Lower Upper

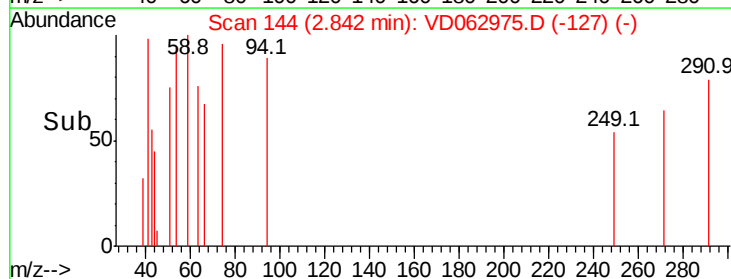
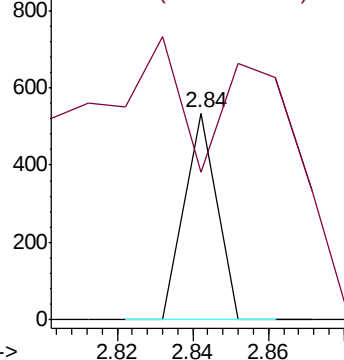
74 100

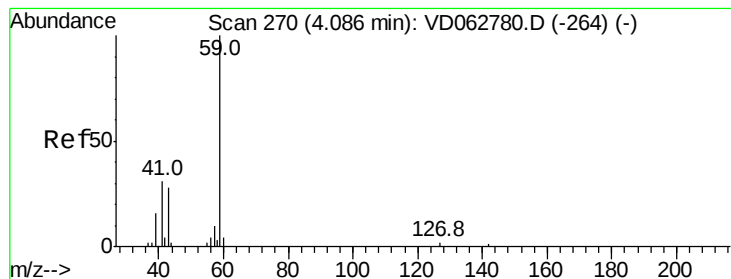
45 71.6 70.2 210.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#11

Tert butyl alcohol

Concen: 17.629 ug/l

RT: 4.02 min Scan# 264

Delta R.T. -0.06 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

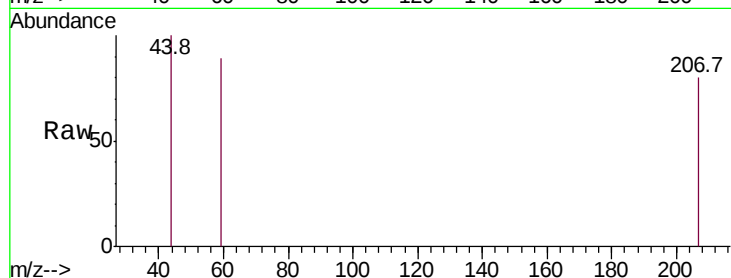
SAMPLE-9

Tot Ion: 59 Resp: 218

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.02

300

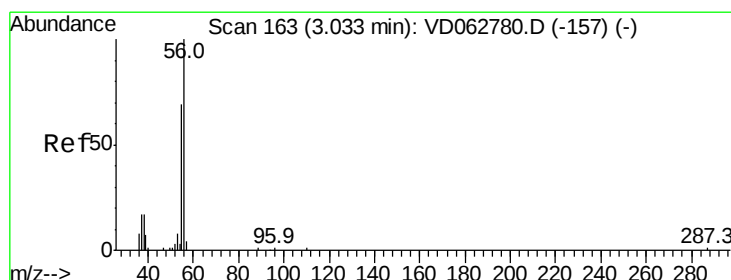
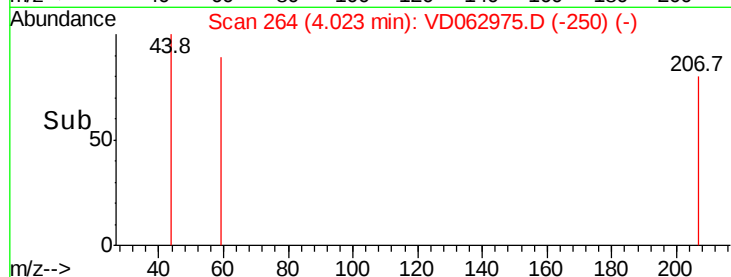
200

100

0

4.00 4.02 4.04

Time-->



#13

Acrolein

Concen: 15.842 ug/l

RT: 2.99 min Scan# 159

Delta R.T. -0.04 min

Lab File: VD062975.D

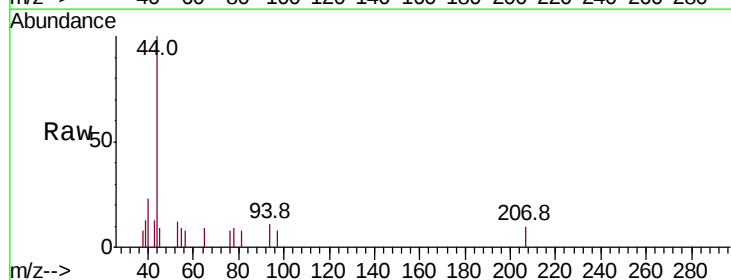
Acq: 28 Jun 2019 19:29

Tgt Ion: 56 Resp: 200

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

500

400

300

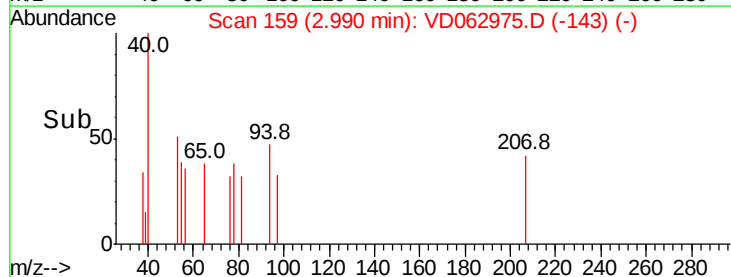
200

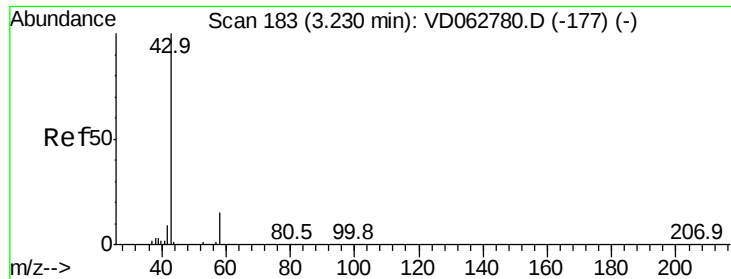
100

0

2.96 2.98 3.00 3.02

Time-->





#16

Acetone

Concen: 512.789 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.03 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

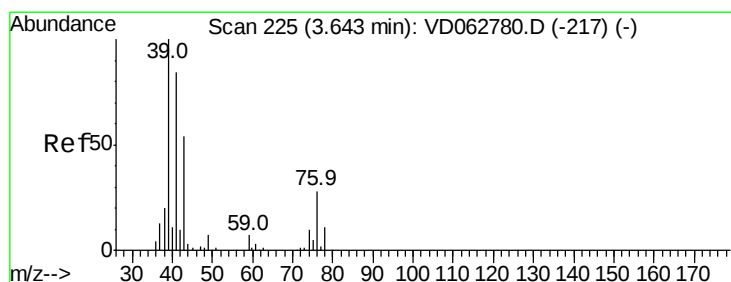
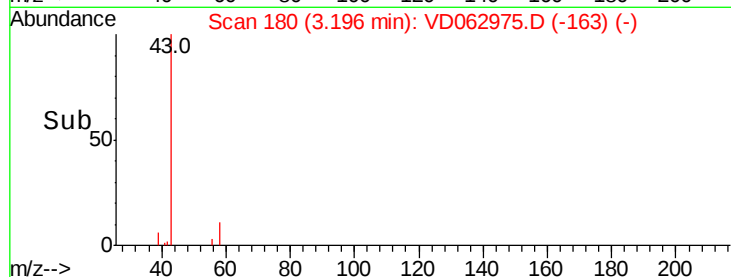
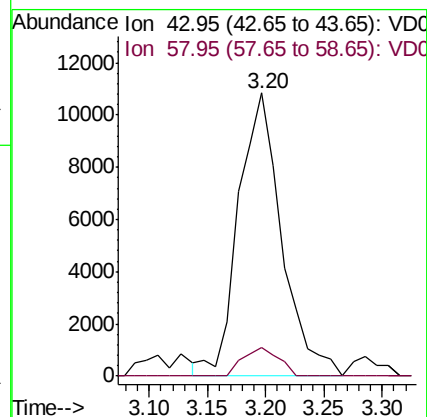
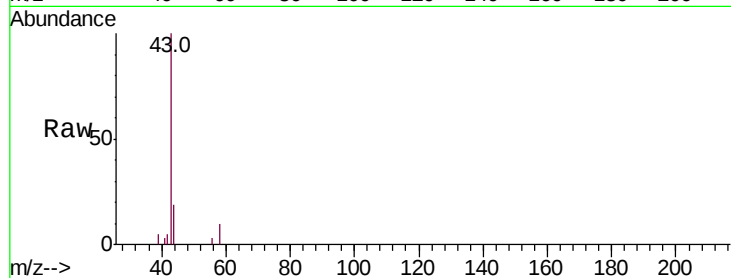
SAMPLE-9

Tot Ion: 43 Resp: 27830

Ion Ratio Lower Upper

43 100

58 10.0 11.9 17.9#



#18

Methyl Acetate

Concen: 3.087 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.02 min

Lab File: VD062975.D

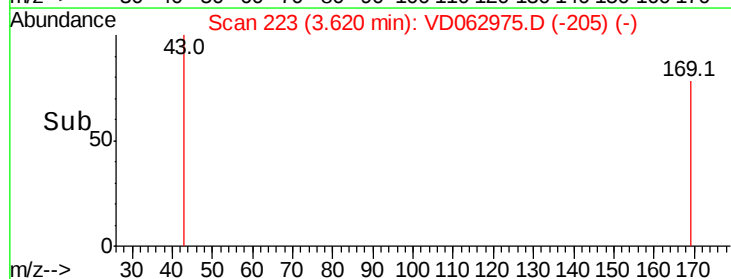
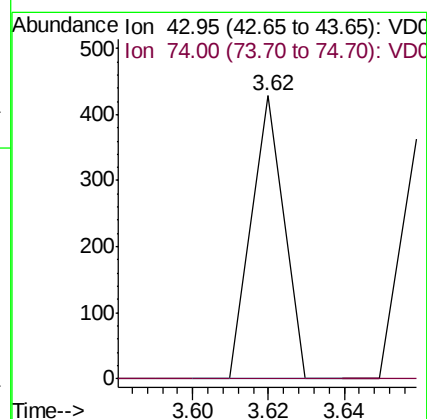
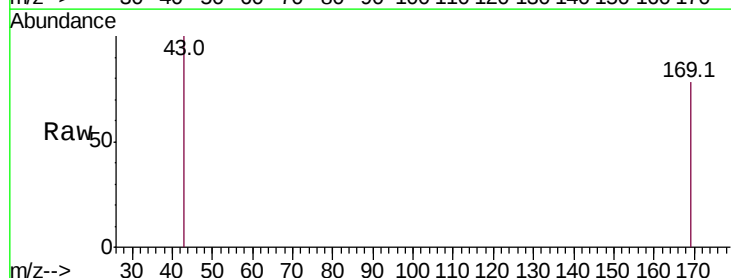
Acq: 28 Jun 2019 19:29

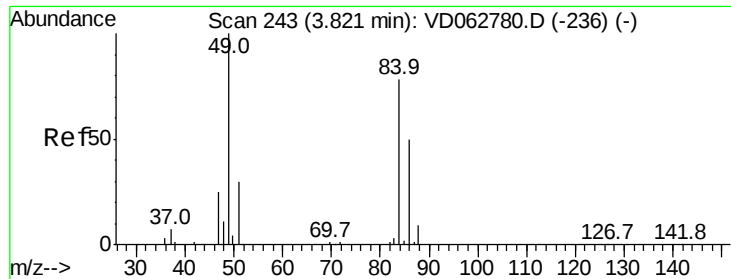
Tgt Ion: 43 Resp: 253

Ion Ratio Lower Upper

43 100

74 0.0 15.2 22.8#

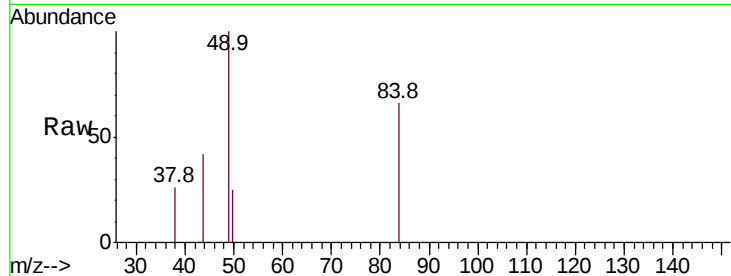




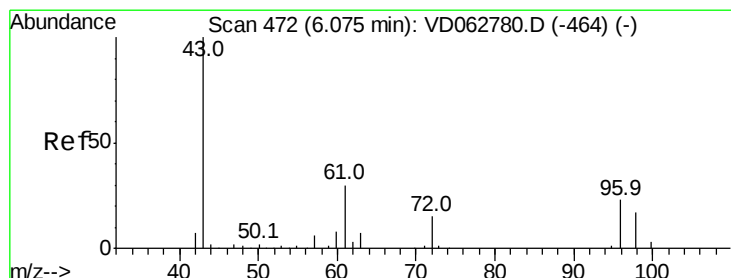
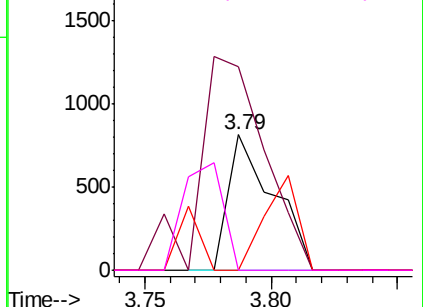
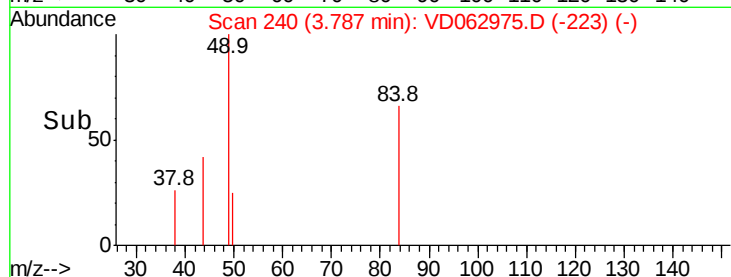
#20
Methvlene Chloride
Concen: 4.873 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.03 min
Lab File: VD062975.D
Acq: 28 Jun 2019 19:29

Instrument :
MSVOA_D
ClientSampleId :
SAMPLE-9

Tot Ion: 84 Resp: 1009
Ion Ratio Lower Upper
84 100
49 150.5 102.9 154.3
51 0.0 31.2 46.8#
86 0.0 51.4 77.2#

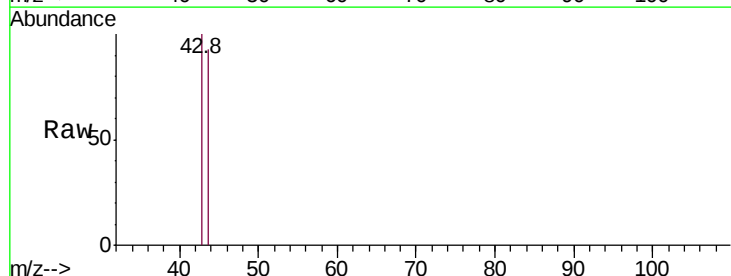


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

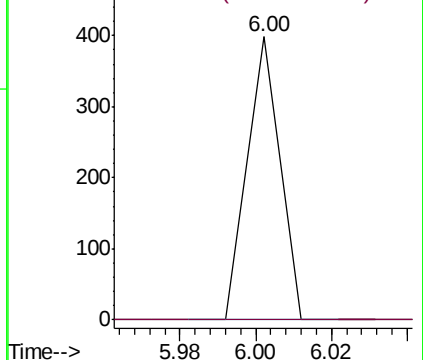
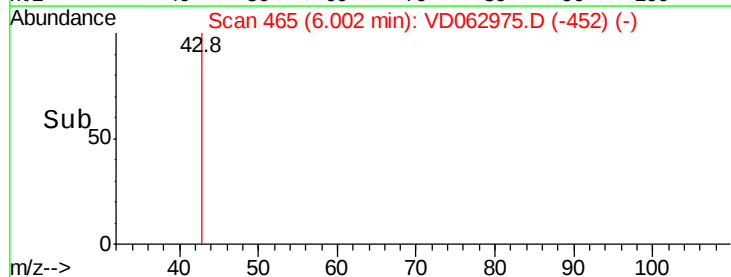


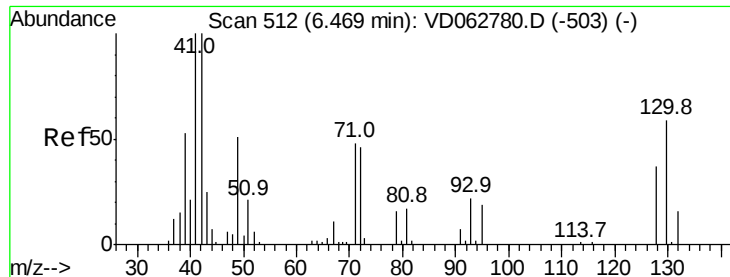
#25
2-Butanone
Concen: 4.628 ug/l
RT: 6.00 min Scan# 465
Delta R.T. -0.07 min
Lab File: VD062975.D
Acq: 28 Jun 2019 19:29

Tgt Ion: 43 Resp: 235
Ion Ratio Lower Upper
43 100
72 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 7.700 ug/l

RT: 6.38 min Scan# 503

Delta R.T. -0.09 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

SAMPLE-9

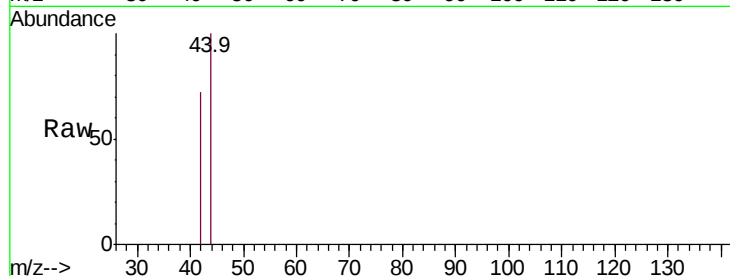
Tot Ion: 42 Resp: 185

Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.6#

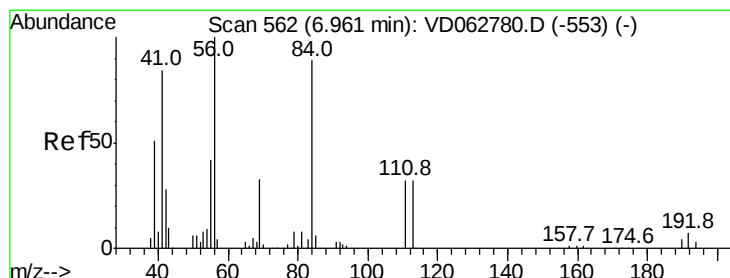
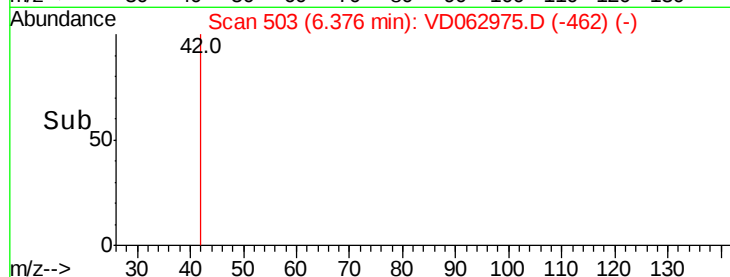
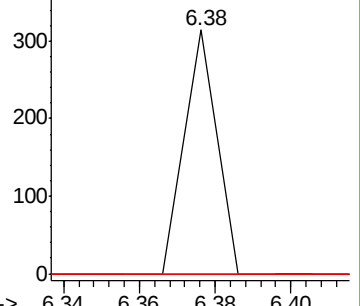
71 0.0 33.3 49.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.059 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.06 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

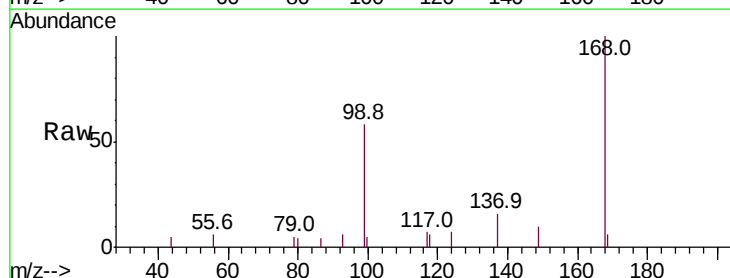
Tgt Ion: 56 Resp: 270

Ion Ratio Lower Upper

56 100

69 0.0 26.6 39.8#

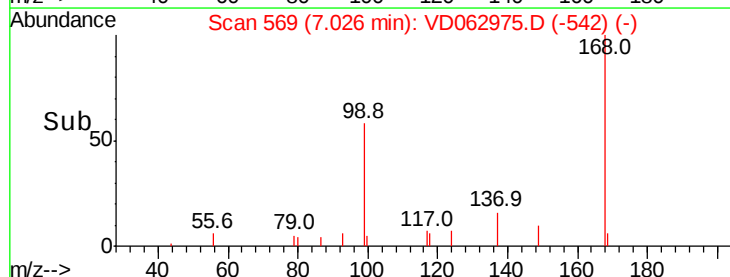
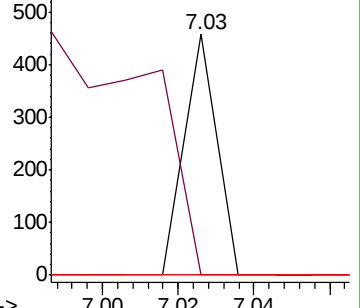
84 0.0 75.5 113.3#

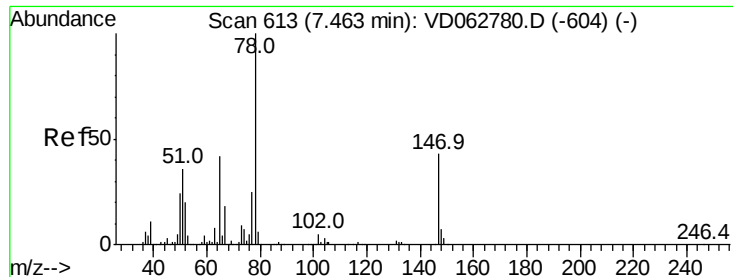


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 103.378 ug/l

RT: 7.42 min Scan# 609

Delta R.T. -0.04 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

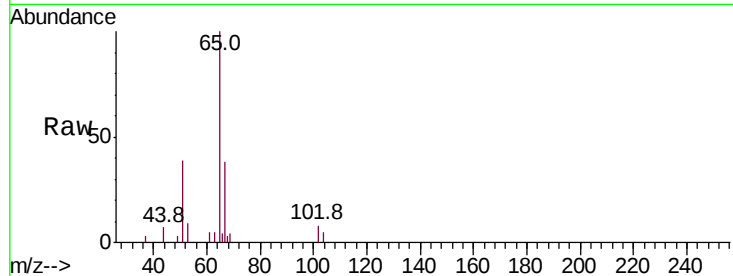
SAMPLE-9

Tot Ion: 65 Resp: 28069

Ion Ratio Lower Upper

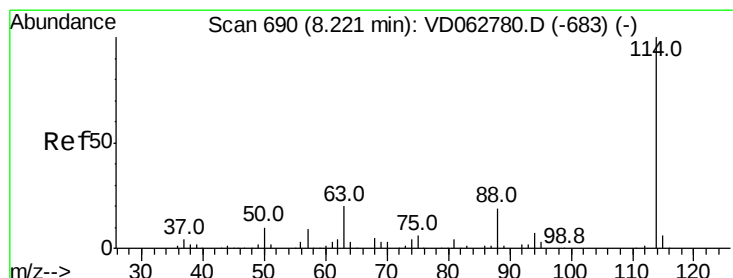
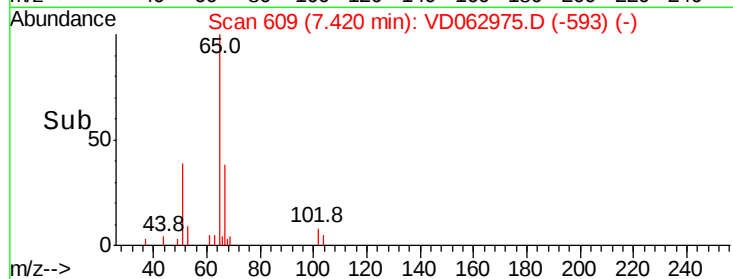
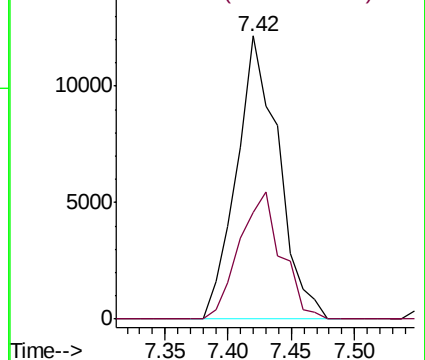
65 100

67 37.7 0.0 87.4



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: 8.19 min Scan# 687

Delta R.T. -0.03 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

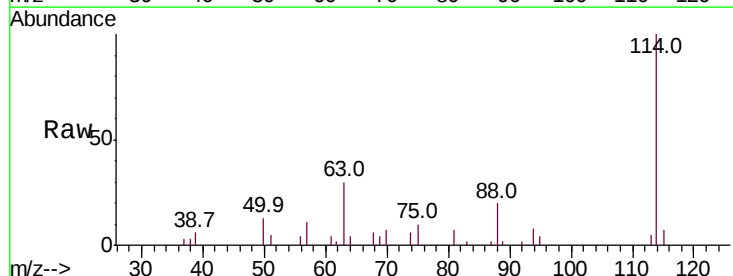
Tgt Ion: 114 Resp: 40856

Ion Ratio Lower Upper

114 100

63 30.3 0.0 40.0

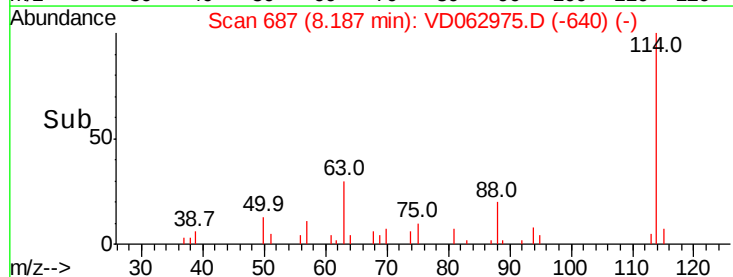
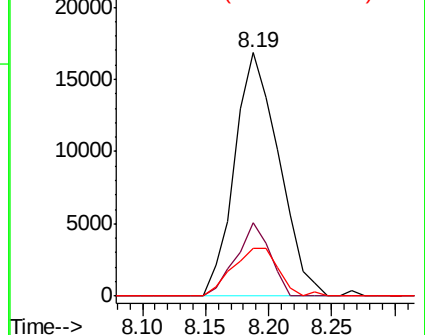
88 19.7 0.0 38.8

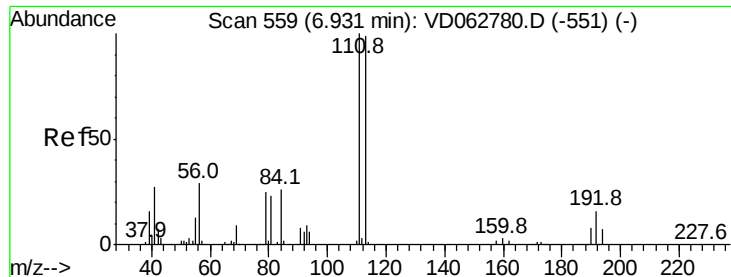


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 63.403 ug/l

RT: 6.90 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

SAMPLE-9

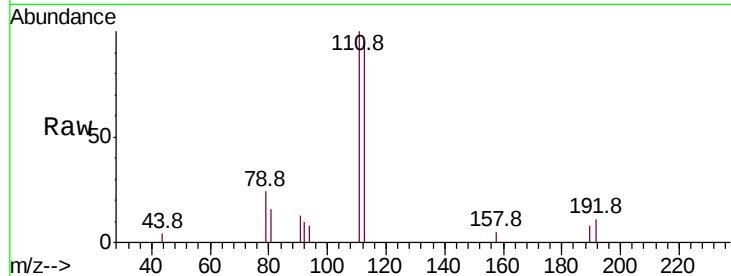
Tot Ion:113 Resp: 21842

Ion Ratio Lower Upper

113 100

111 105.7 81.2 121.8

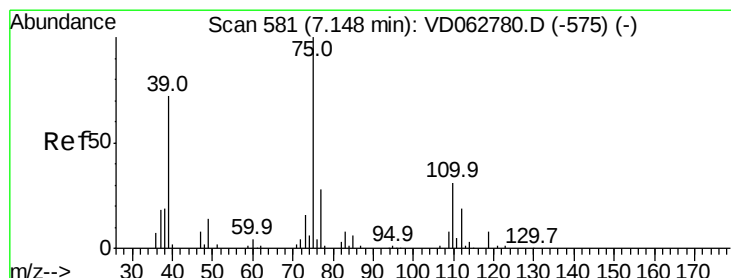
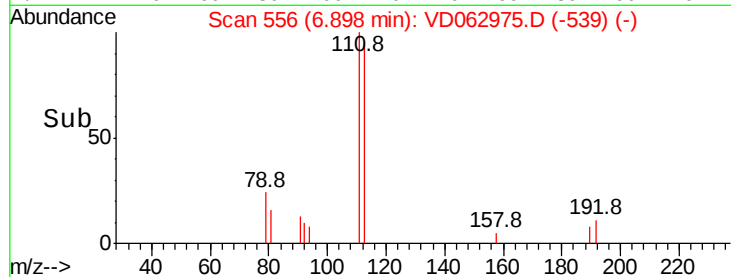
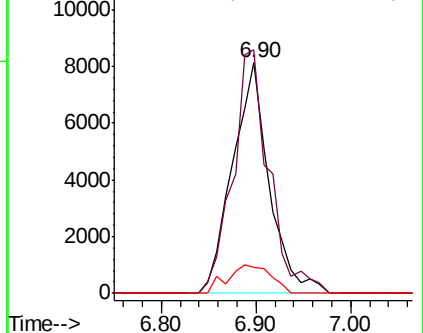
192 11.4 12.9 19.3#



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: 4.424 ug/l

RT: 7.01 min Scan# 567

Delta R.T. -0.14 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

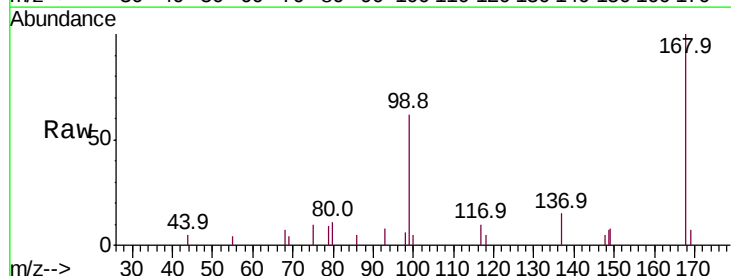
Tgt Ion: 75 Resp: 1711

Ion Ratio Lower Upper

75 100

110 0.0 15.0 45.1#

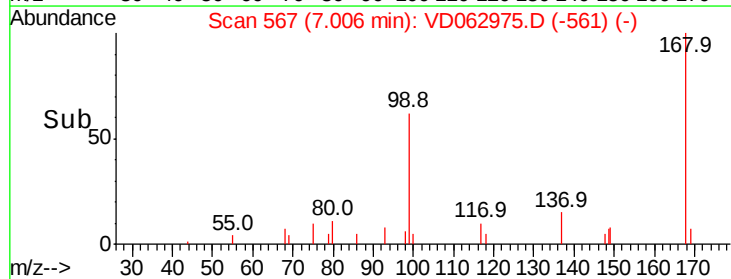
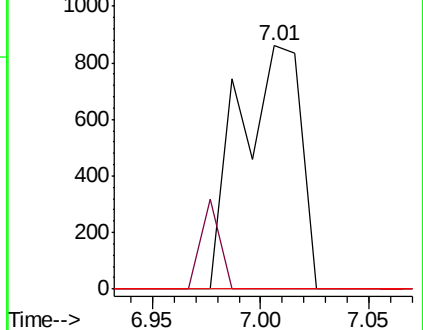
77 0.0 22.2 33.2#

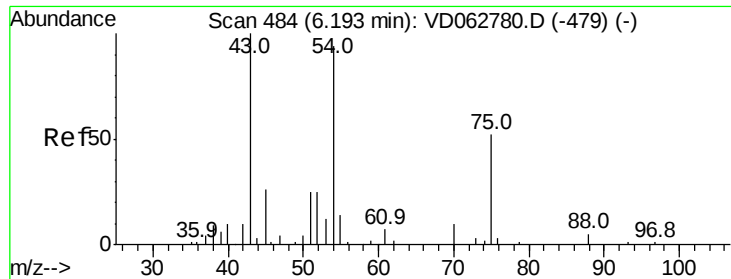


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

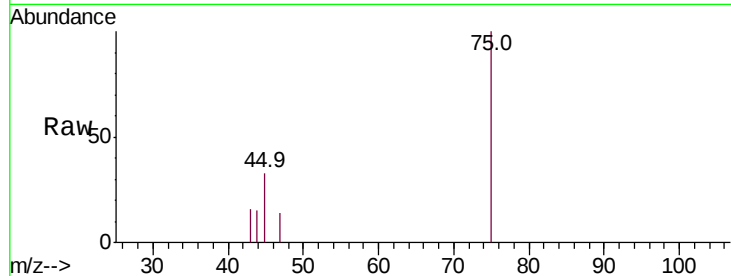




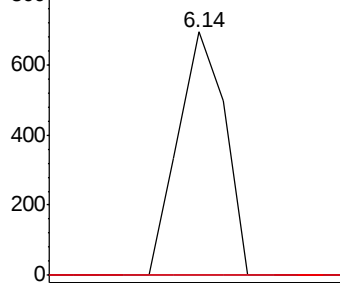
#37
Ethyl Acetate
Concen: 4.545 ug/l
RT: 6.14 min Scan# 479
Delta R.T. -0.05 min
Lab File: VD062975.D
Acq: 28 Jun 2019 19:29

Instrument :
MSVOA_D
ClientSampleId :
SAMPLE-9

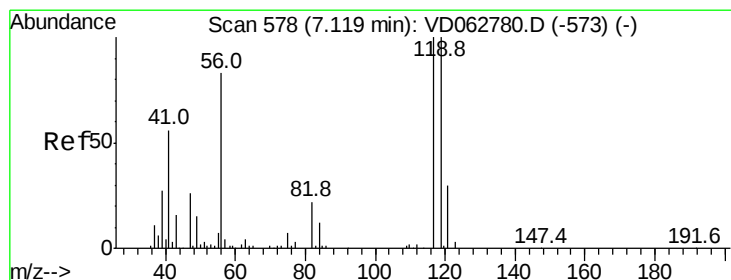
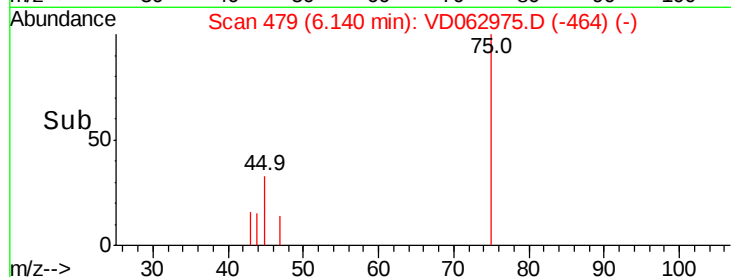
Tot Ion: 43 Resp: 901
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 6.4 9.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

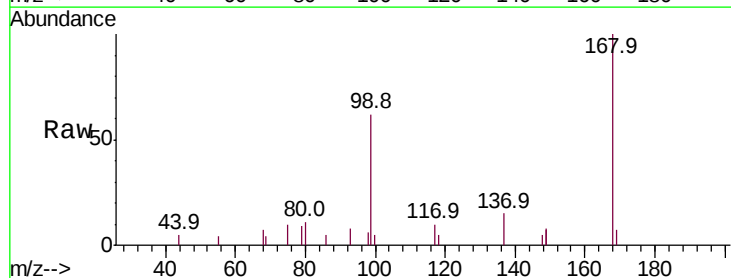


Time-->

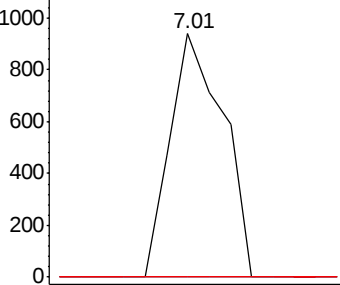


#38
Carbon Tetrachloride
Concen: 2.754 ug/l
RT: 7.01 min Scan# 567
Delta R.T. -0.11 min
Lab File: VD062975.D
Acq: 28 Jun 2019 19:29

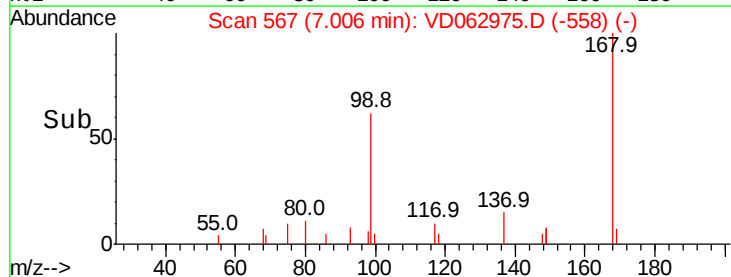
Tgt Ion: 117 Resp: 1602
Ion Ratio Lower Upper
117 100
119 0.0 75.4 113.2#
121 0.0 22.3 33.5#

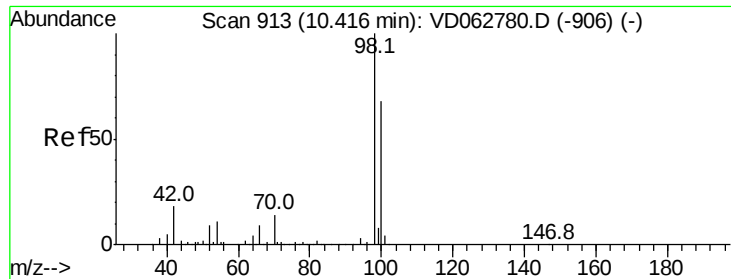


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V



Time-->





#50

Toluene-d8

Concen: 49.576 ug/l

RT: 10.38 min Scan# 910

Delta R.T. -0.03 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

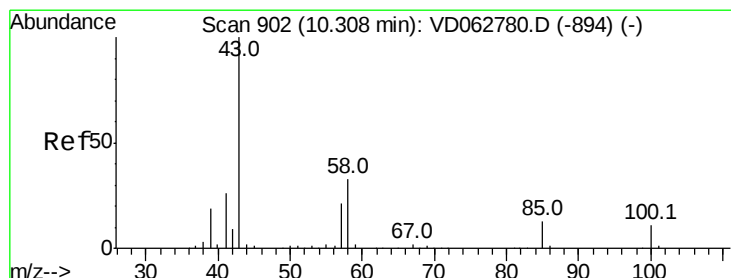
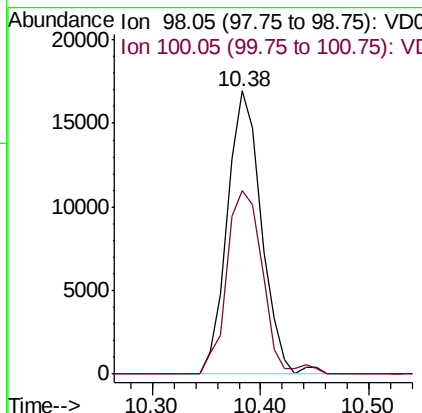
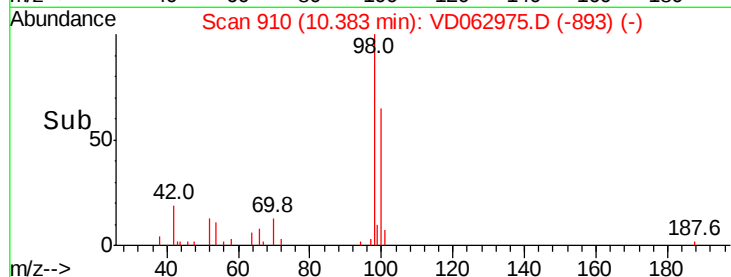
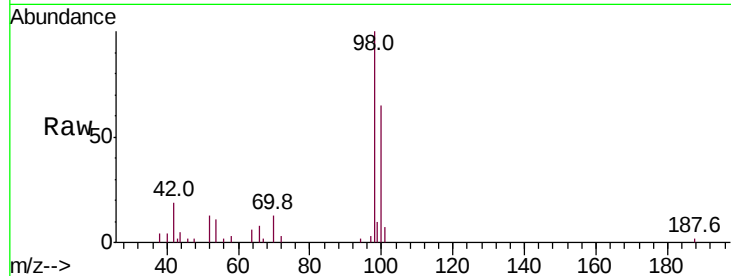
SAMPLE-9

Tot Ion: 98 Resp: 37171

Ion Ratio Lower Upper

98 100

100 64.8 54.7 82.1



#51

4-Methyl-2-Pentanone

Concen: 3.193 ug/l

RT: 10.39 min Scan# 911

Delta R.T. 0.08 min

Lab File: VD062975.D

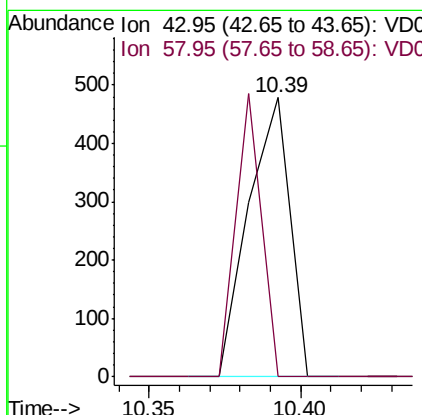
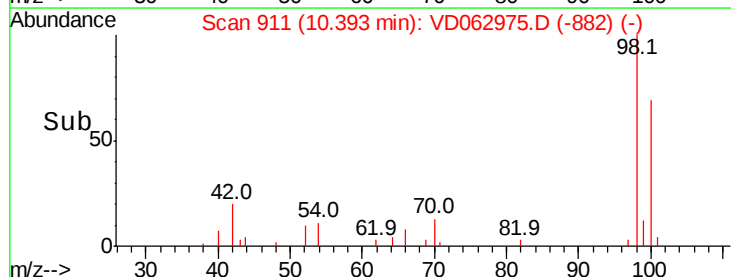
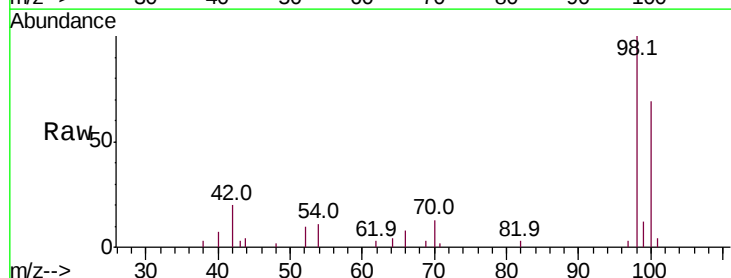
Acq: 28 Jun 2019 19:29

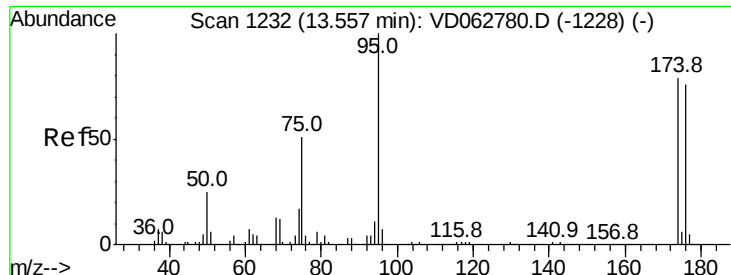
Tgt Ion: 43 Resp: 459

Ion Ratio Lower Upper

43 100

58 0.0 26.6 40.0#





#62

4-Bromofluorobenzene

Concen: 45.962 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

SAMPLE-9

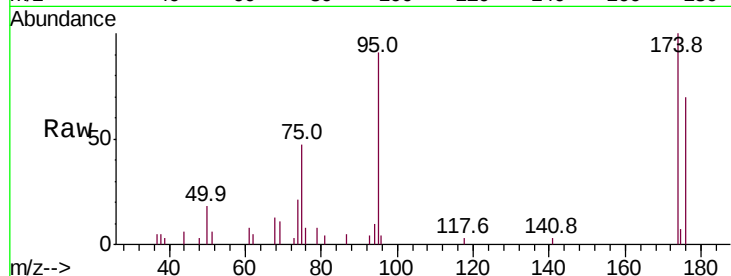
Tot Ion: 95 Resp: 15670

Ion Ratio Lower Upper

95 100

174 109.4 0.0 158.0

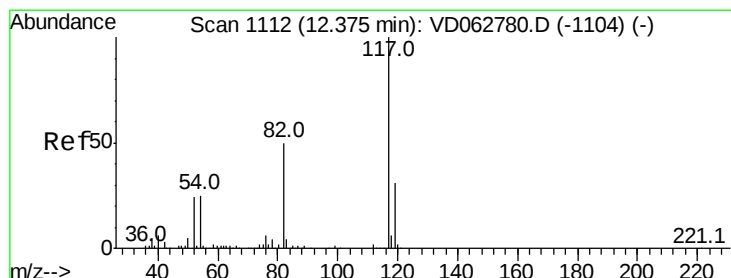
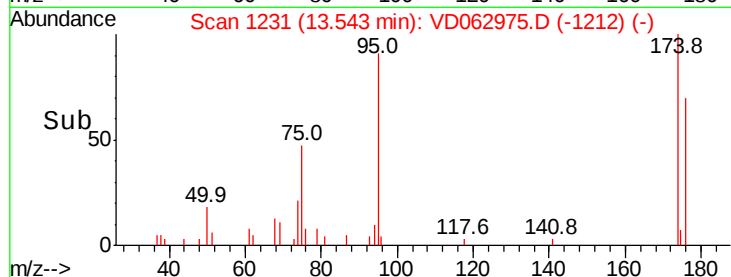
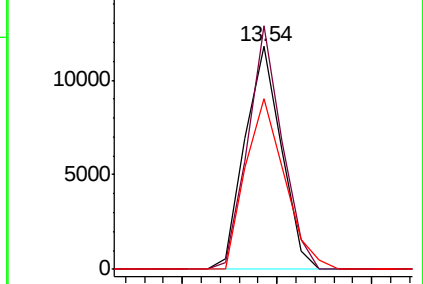
176 76.4 0.0 151.6



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: 12.35 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

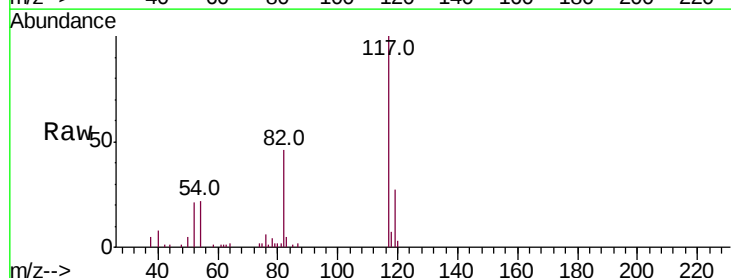
Tgt Ion: 117 Resp: 37789

Ion Ratio Lower Upper

117 100

82 46.2 40.4 60.6

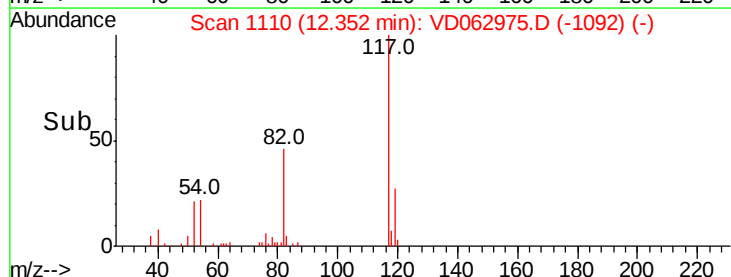
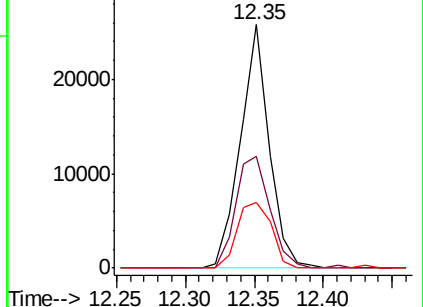
119 27.1 25.2 37.8

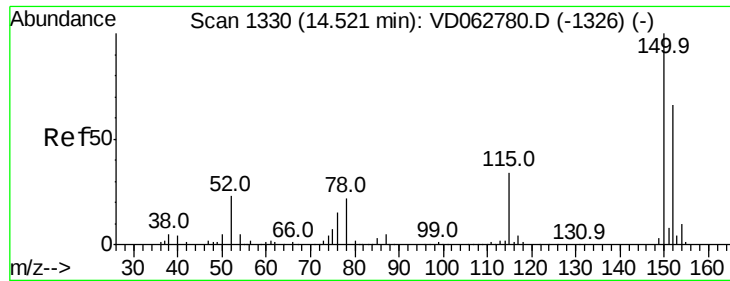


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



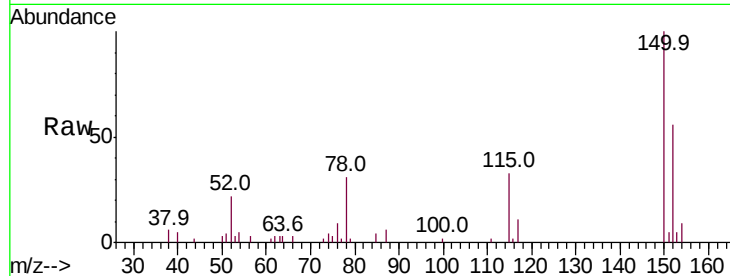


#72

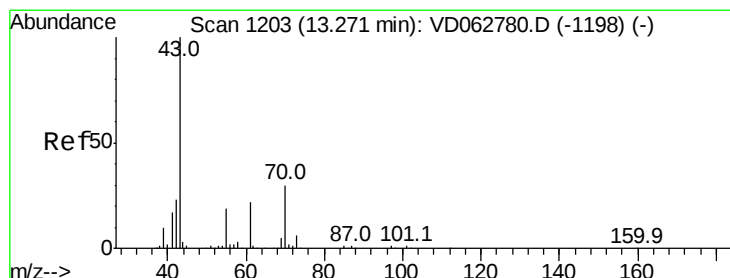
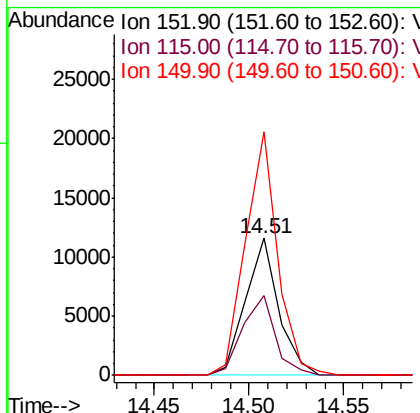
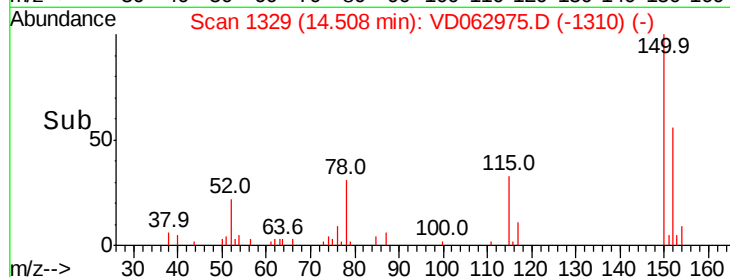
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD062975.D
Acq: 28 Jun 2019 19:29

Instrument :
MSVOA_D
ClientSampleId :
SAMPLE-9

Tot Ion:152 Resp: 13991
Ion Ratio Lower Upper
152 100
115 58.0 29.2 87.6
150 178.0 0.0 305.8



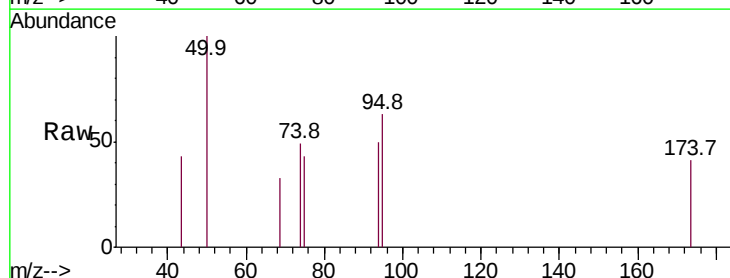
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



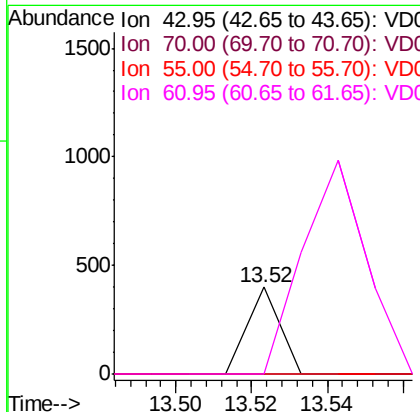
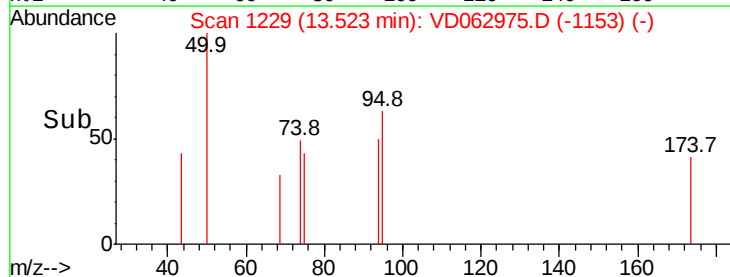
#74

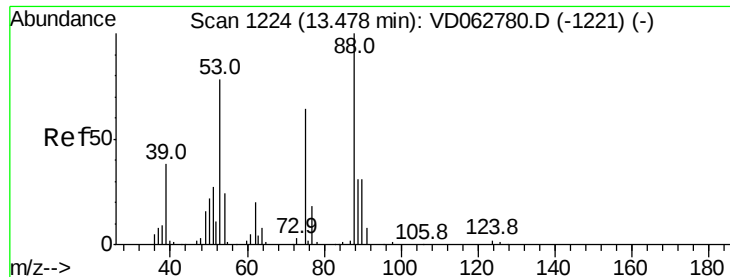
N-ethyl acetate
Concen: 1.083 ug/l
RT: 13.52 min Scan# 1229
Delta R.T. 0.25 min
Lab File: VD062975.D
Acq: 28 Jun 2019 19:29

Tgt Ion: 43 Resp: 236
Ion Ratio Lower Upper
43 100
70 0.0 24.4 36.6#
55 0.0 15.2 22.8#
61 0.0 17.4 26.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 60.95 (60.65 to 61.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 165.789 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

SAMPLE-9

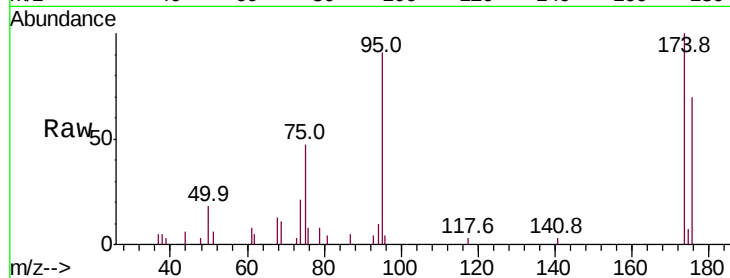
Tot Ion: 75 Resp: 7018

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

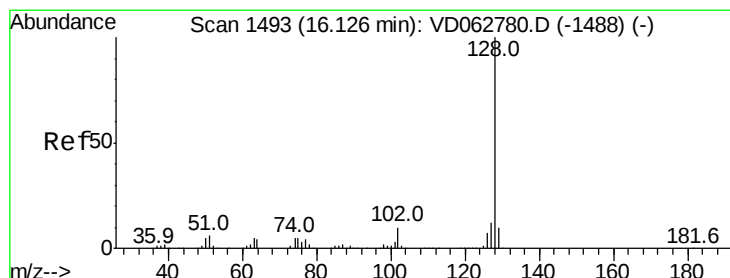
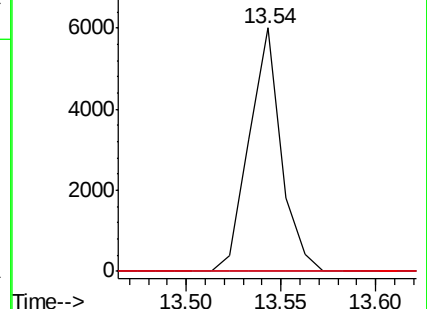
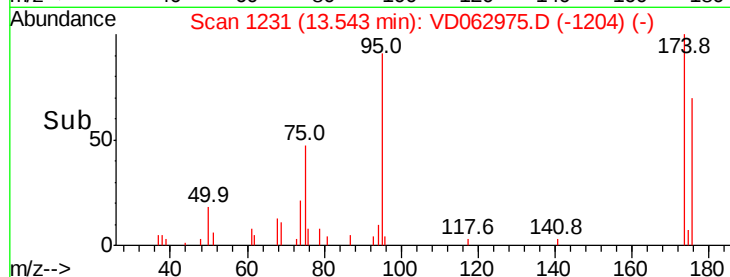
89 0.0 39.4 59.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#95

Naphthalene

Concen: 1.767 ug/l

RT: 16.11 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VD062975.D

Acq: 28 Jun 2019 19:29

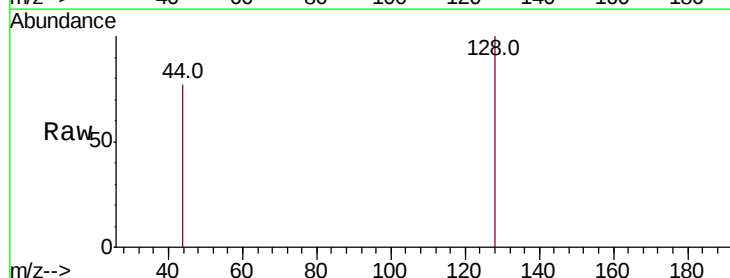
Tgt Ion: 128 Resp: 716

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 0.0 8.3 12.5#



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

