

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
 Data File : VD063442.D
 Acq On : 8 Aug 2019 16:58
 Operator : JC/SY
 Sample : K4223-08
 Misc : 4.24g/5ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-4

Quant Time: Aug 09 06:58:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	615768	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	910565	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	472291	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	131386	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.47	65	449859	65.84	ug/l	0.03
Spiked Amount			Recovery	=	131.68%	
35) Dibromofluoromethane	6.93	113	421994	54.28	ug/l	0.03
Spiked Amount			Recovery	=	108.56%	
50) Toluene-d8	10.42	98	674131	38.75	ug/l	0.02
Spiked Amount			Recovery	=	77.50%	
62) 4-Bromofluorobenzene	13.56	95	186988	23.58	ug/l	0.00
Spiked Amount			Recovery	=	47.16%	

Target Compounds

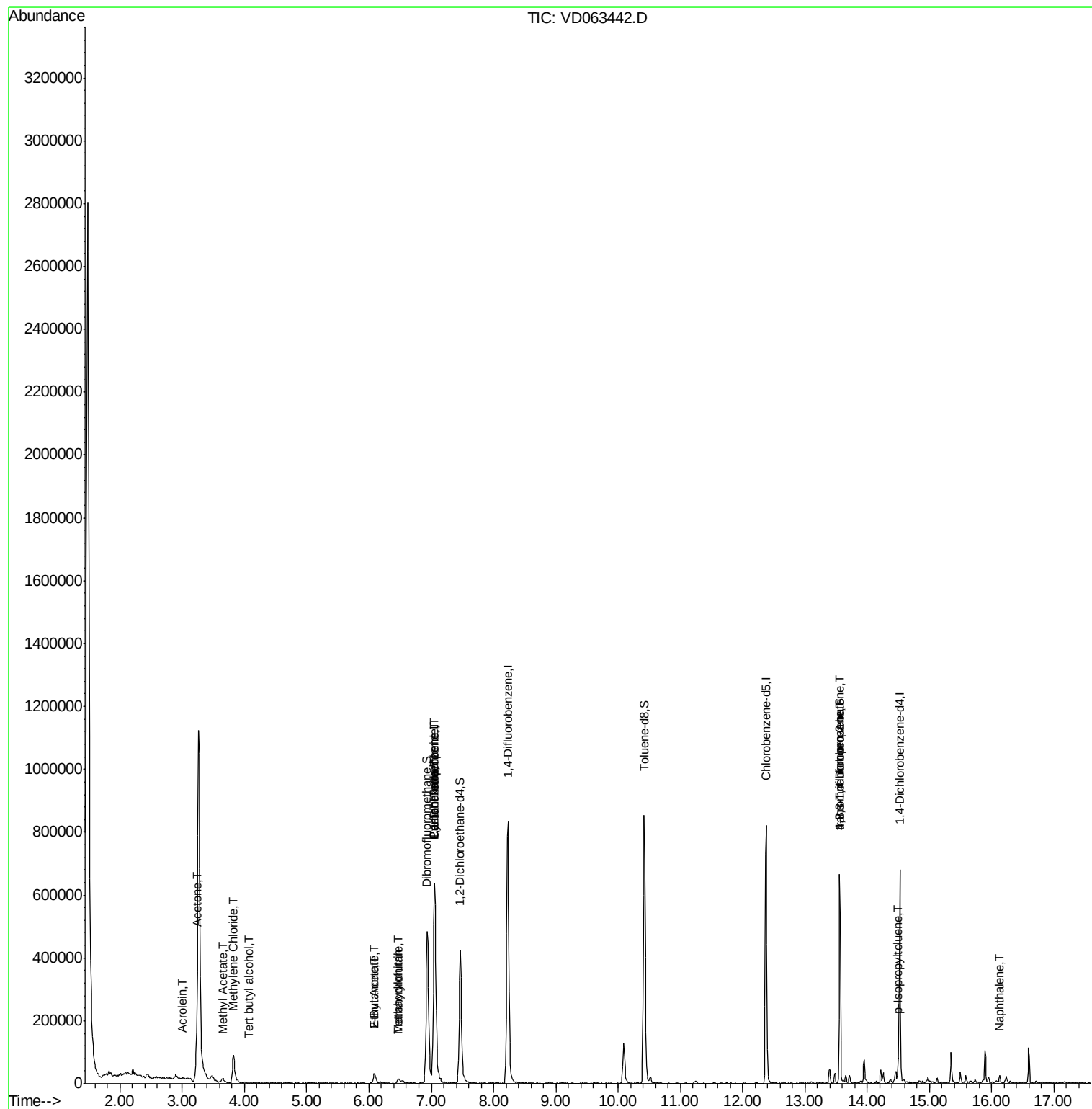
					Qvalue
11) Tert butyl alcohol	4.07	59	1582	5.276 ug/l #	69
13) Acrolein	3.02	56	408	1.414 ug/l #	50
16) Acetone	3.23	43	190496	143.096 ug/l #	92
18) Methyl Acetate	3.66	43	25536	9.986 ug/l	95
20) Methylene Chloride	3.82	84	53116	9.871 ug/l	97
25) 2-Butanone	6.08	43	64715	48.439 ug/l #	90
29) Tetrahydrofuran	6.47	42	10167	16.073 ug/l	93
31) Cyclohexane	7.04	56	12081	1.985 ug/l #	21
36) 1,1-Dichloropropene	7.04	75	45533	5.479 ug/l #	53
37) Ethyl Acetate	6.08	43	64715	17.334 ug/l #	70
38) Carbon Tetrachloride	7.06	117	61011	4.877 ug/l #	15
41) Methacrylonitrile	6.47	41	9433	2.112 ug/l #	68
76) 1,2,3-Trichloropropane	13.56	75	66612	42.210 ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	82875	189.121 ug/l #	3
86) p-Isopropyltoluene	14.49	119	33162	4.061 ug/l	94
95) Naphthalene	16.13	128	13333	3.281 ug/l	95

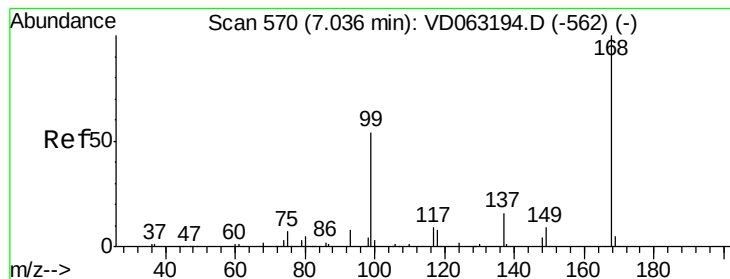
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD063442.D

Acq: 8 Aug 2019 16:58

Instrument :

MSVOA_D

ClientSampleId :

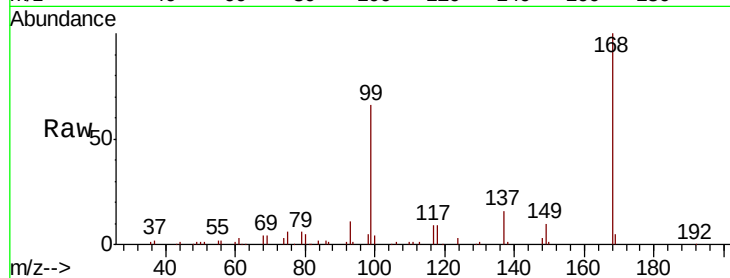
SP-4

Tgt Ion:168 Resp: 615768

Ion Ratio Lower Upper

168 100

99 65.9 43.7 65.5#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

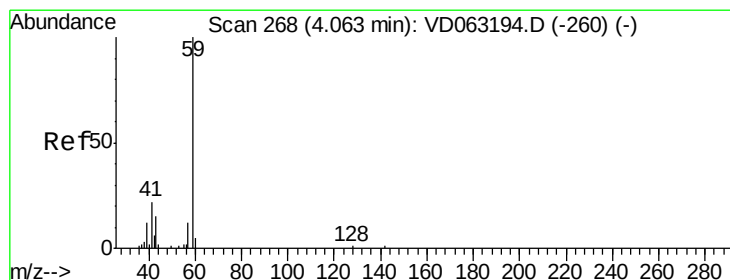
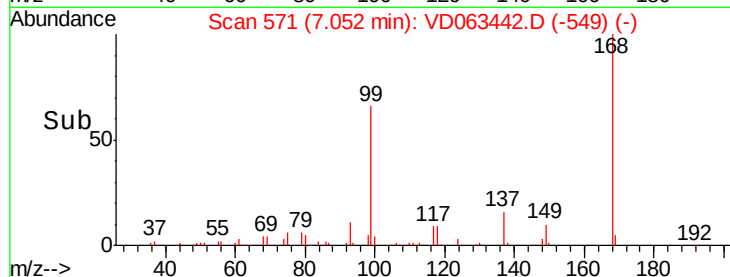
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.276 ug/l

RT: 4.07 min Scan# 268

Delta R.T. 0.01 min

Lab File: VD063442.D

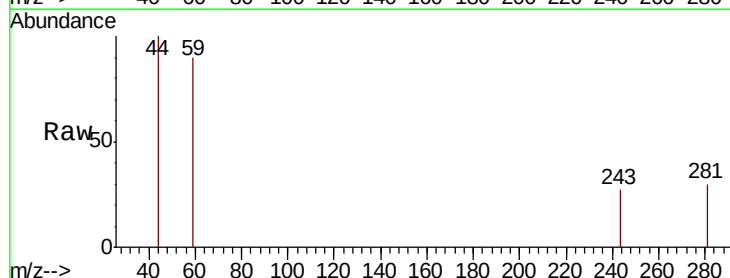
Acq: 8 Aug 2019 16:58

Tgt Ion: 59 Resp: 1582

Ion Ratio Lower Upper

59 100

57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

1200

1000

800

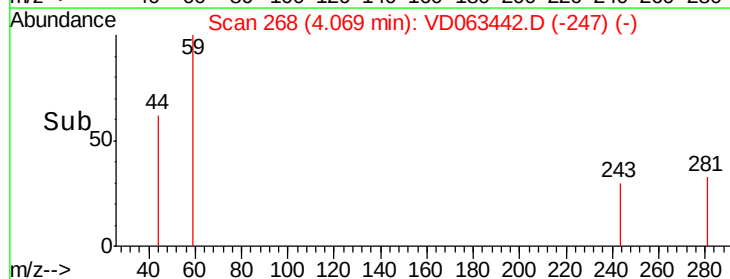
600

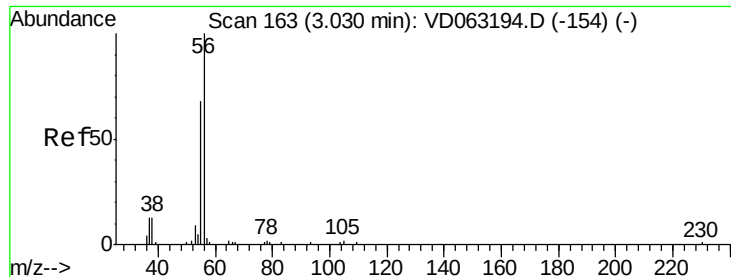
400

200

0

Time-->





#13

Acrolein

Concen: 1.414 ug/l

RT: 3.02 min Scan# 161

Delta R.T. -0.01 min

Lab File: VD063442.D

Acq: 8 Aug 2019 16:58

Instrument :

MSVOA_D

ClientSampleId :

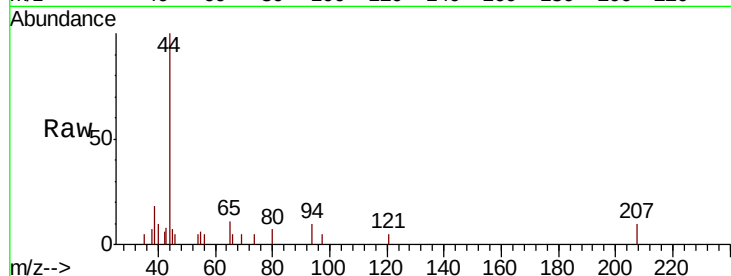
SP-4

Tgt Ion: 56 Resp: 408

Ion Ratio Lower Upper

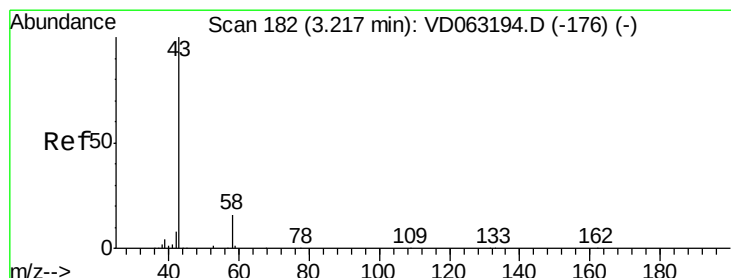
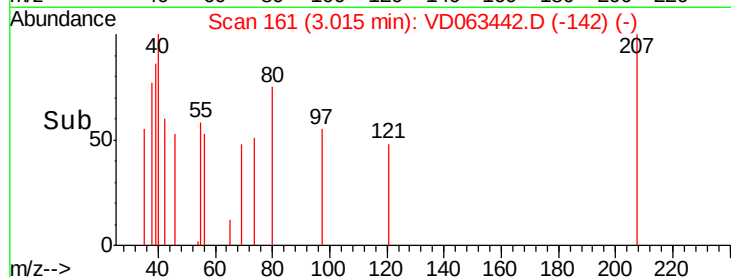
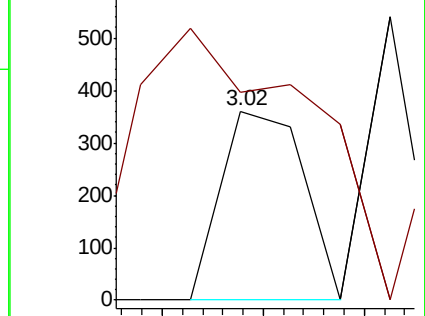
56 100

55 110.0 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 143.096 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.02 min

Lab File: VD063442.D

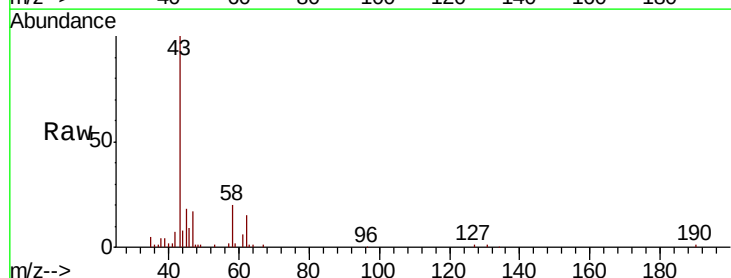
Acq: 8 Aug 2019 16:58

Tgt Ion: 43 Resp: 190496

Ion Ratio Lower Upper

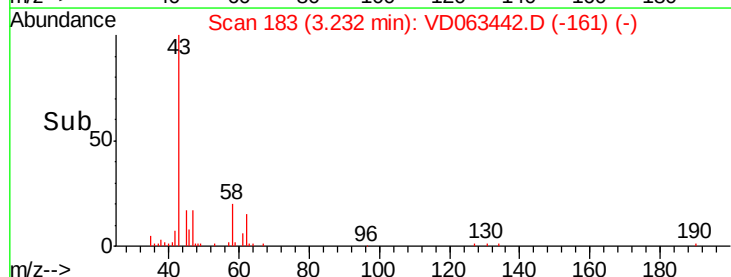
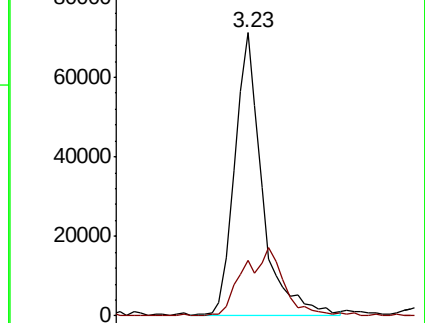
43 100

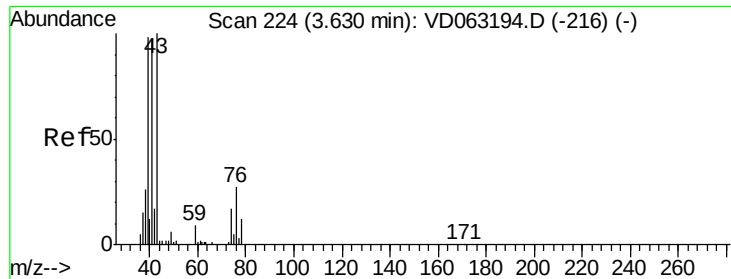
58 19.6 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

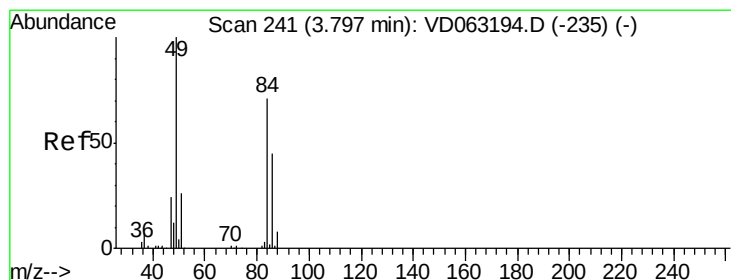
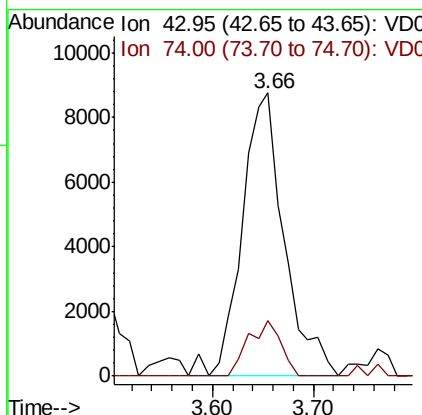
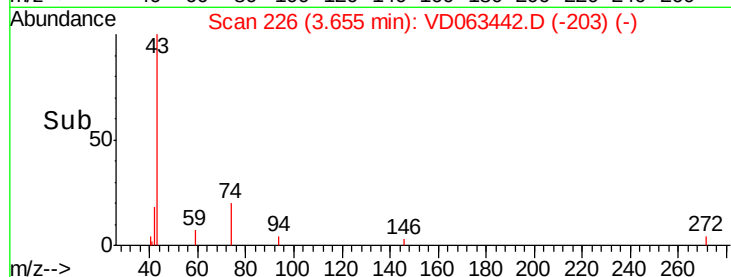
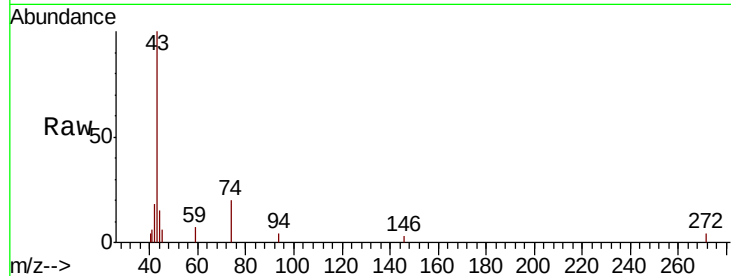




#18
Methyl Acetate
Concen: 9.986 ug/l
RT: 3.66 min Scan# 226
Delta R.T. 0.03 min
Lab File: VD063442.D
Acq: 8 Aug 2019 16:58

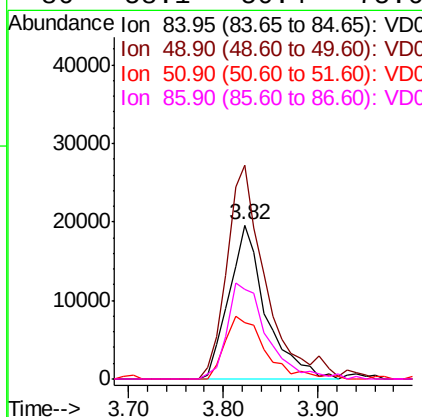
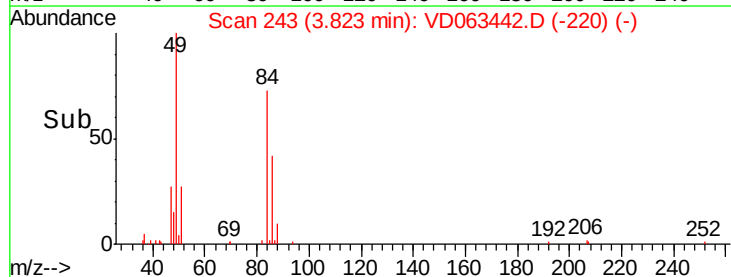
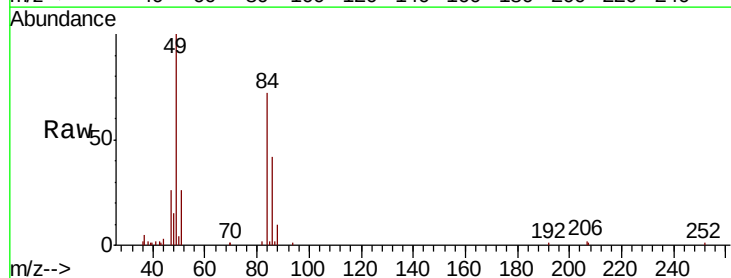
Instrument :
MSVOA_D
ClientSampleId :
SP-4

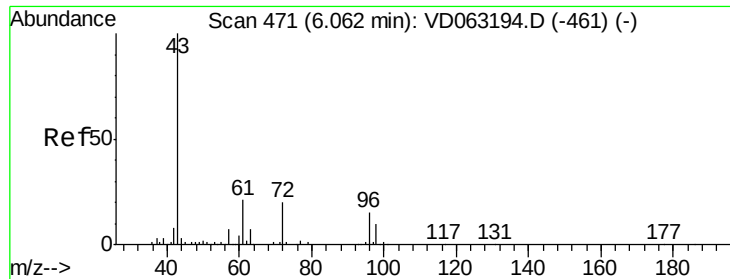
Tgt Ion: 43 Resp: 25536
Ion Ratio Lower Upper
43 100
74 19.6 13.8 20.8



#20
Methylene Chloride
Concen: 9.871 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.03 min
Lab File: VD063442.D
Acq: 8 Aug 2019 16:58

Tgt Ion: 84 Resp: 53116
Ion Ratio Lower Upper
84 100
49 138.6 112.5 168.7
51 36.5 29.6 44.4
86 58.1 50.4 75.6





#25

2-Butanone

Concen: 48.439 ug/l

RT: 6.08 min Scan# 472

Delta R.T. 0.02 min

Lab File: VD063442.D

Acq: 8 Aug 2019 16:58

Instrument :

MSVOA_D

ClientSampleId :

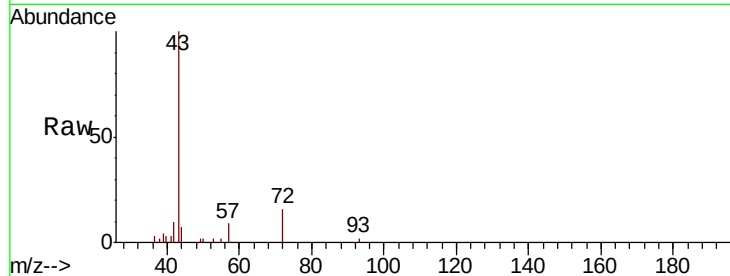
SP-4

Tgt Ion: 43 Resp: 64715

Ion Ratio Lower Upper

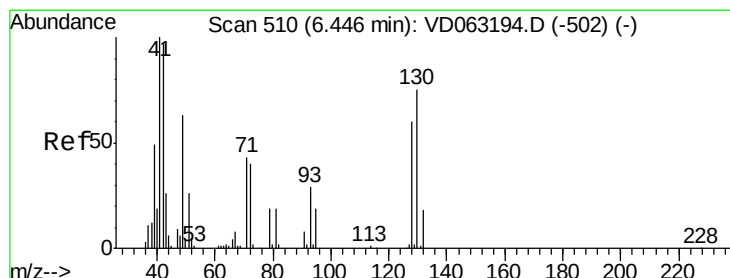
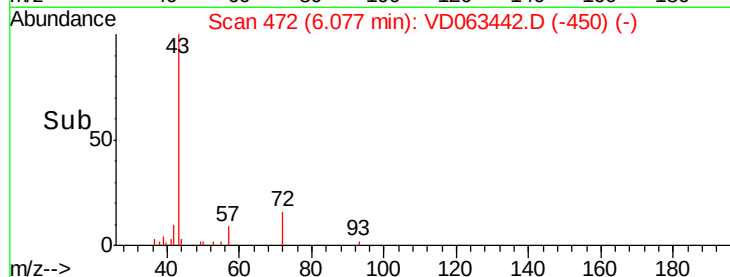
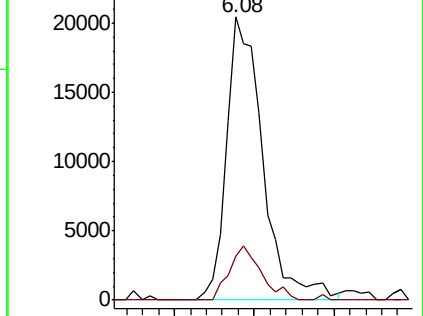
43 100

72 15.7 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 16.073 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.03 min

Lab File: VD063442.D

Acq: 8 Aug 2019 16:58

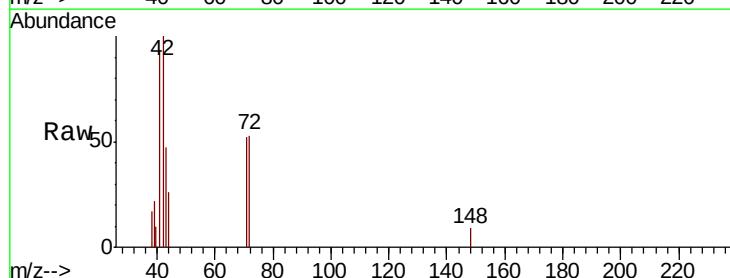
Tgt Ion: 42 Resp: 10167

Ion Ratio Lower Upper

42 100

72 47.0 33.4 50.2

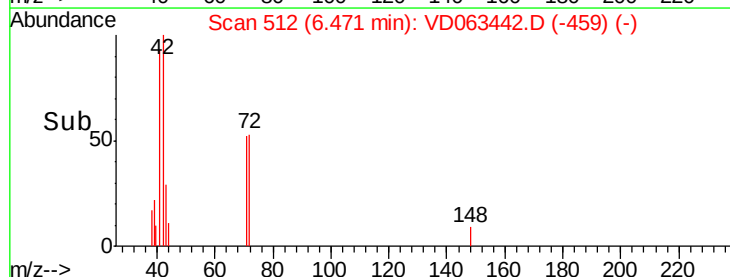
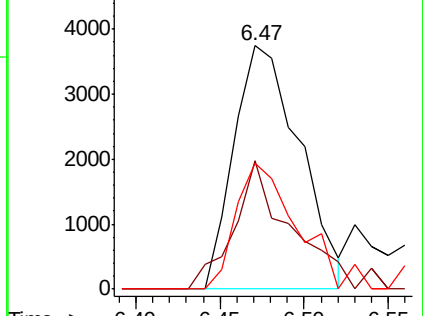
71 48.7 35.7 53.5

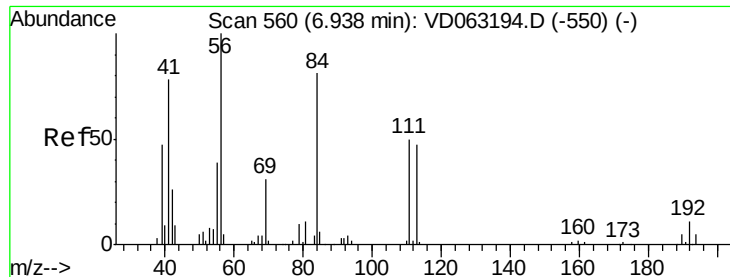


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

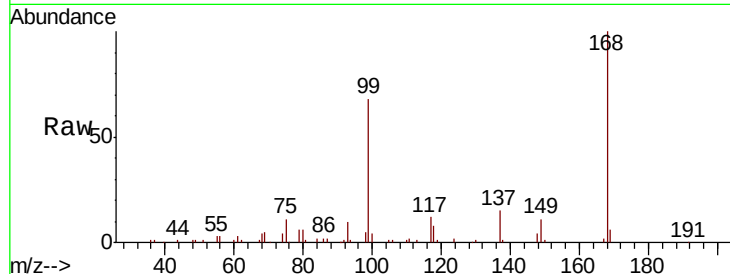




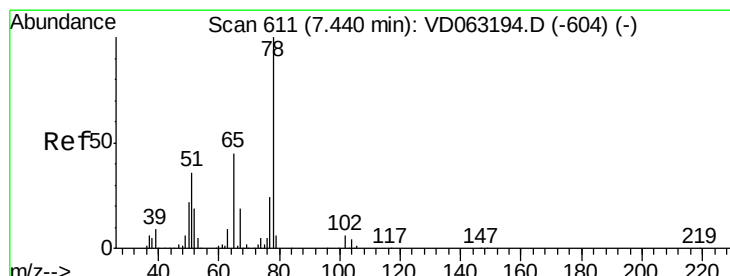
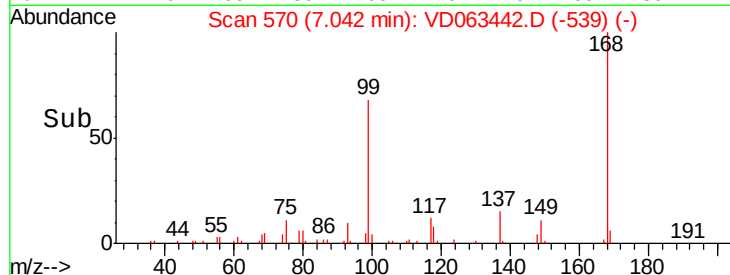
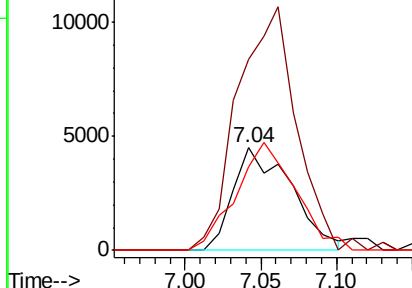
#31
Cyclohexane
Concen: 1.985 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.10 min
Lab File: VD063442.D
Acq: 8 Aug 2019 16:58

Instrument :
MSVOA_D
ClientSampleId :
SP-4

Tgt Ion: 56 Resp: 12081
Ion Ratio Lower Upper
56 100
69 187.4 24.5 36.7#
84 81.6 64.9 97.3

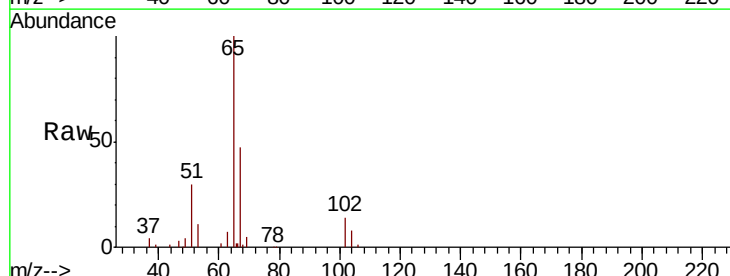


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

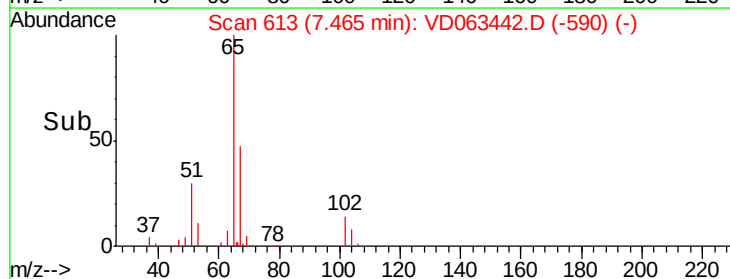
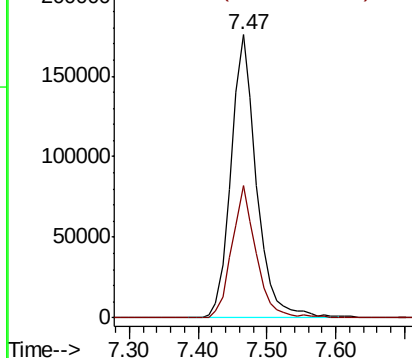


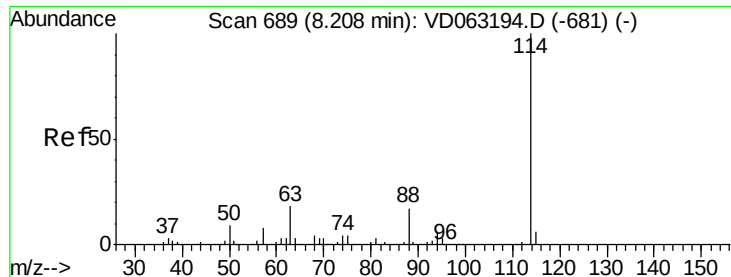
#33
1,2-Dichloroethane-d4
Concen: 65.841 ug/l
RT: 7.47 min Scan# 613
Delta R.T. 0.03 min
Lab File: VD063442.D
Acq: 8 Aug 2019 16:58

Tgt Ion: 65 Resp: 449859
Ion Ratio Lower Upper
65 100
67 46.7 0.0 85.8



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: 8.23 min Scan# 691

Delta R.T. 0.03 min

Lab File: VD063442.D

Acq: 8 Aug 2019 16:58

Instrument :

MSVOA_D

ClientSampleId :

SP-4

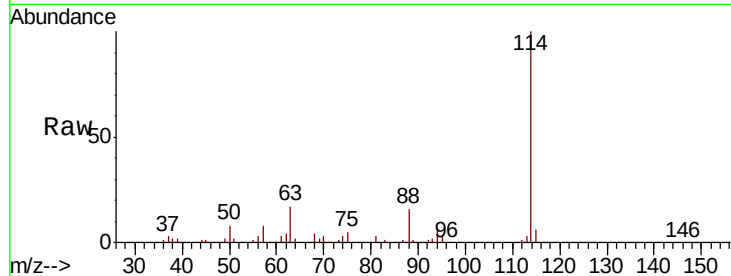
Tgt Ion:114 Resp: 910565

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.2

88 15.9 0.0 34.6

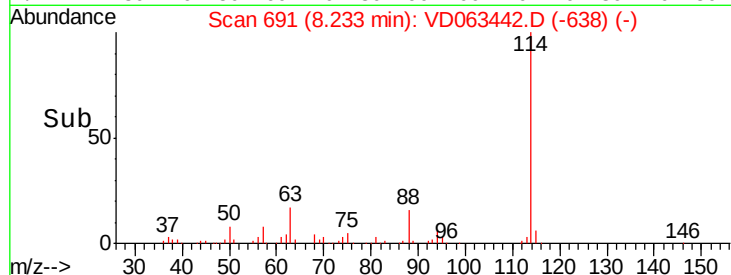


Abundance Ion 114.00 (113.70 to 114.70): V

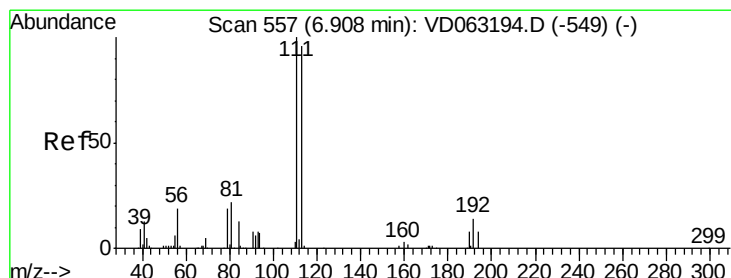
Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V

8.23



Time-->



#35

Dibromofluoromethane

Concen: 54.281 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD063442.D

Acq: 8 Aug 2019 16:58

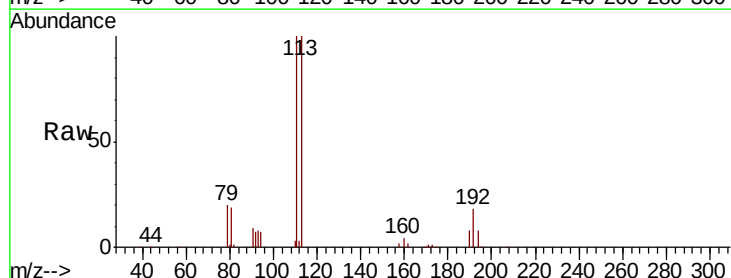
Tgt Ion:113 Resp: 421994

Ion Ratio Lower Upper

113 100

111 99.9 83.2 124.8

192 17.9 11.8 17.8#

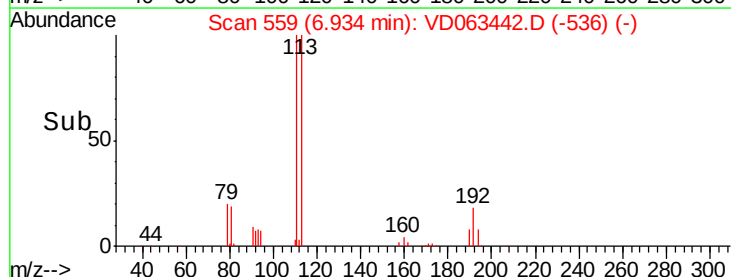


Abundance Ion 112.90 (112.60 to 113.60): V

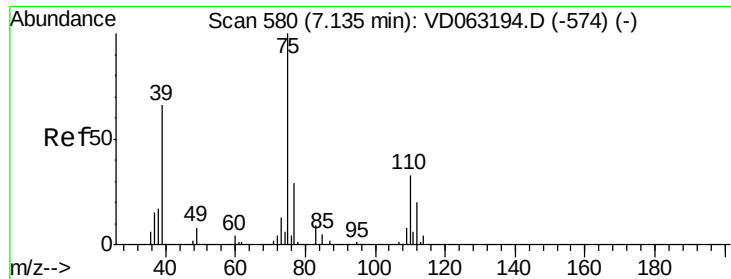
Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

6.93



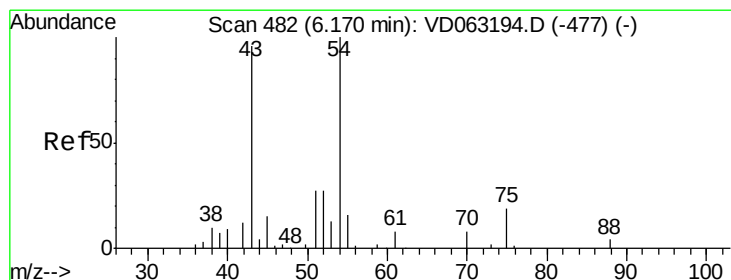
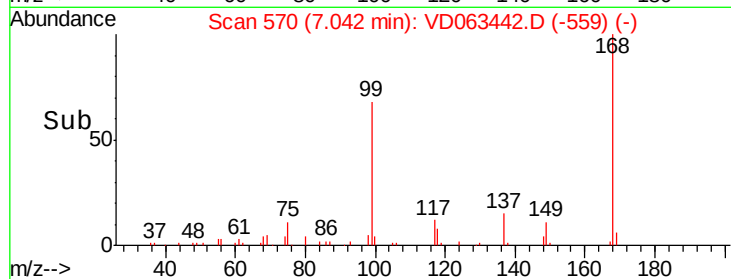
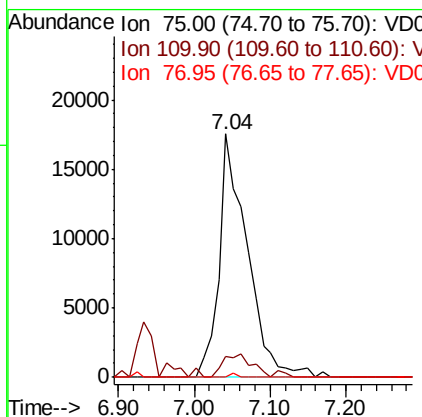
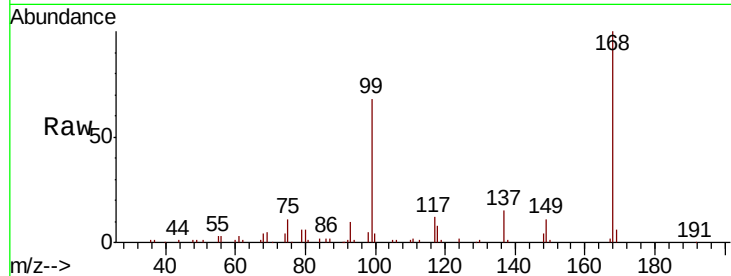
Time-->



#36
 1,1-Dichloropropene
 Concen: 5.479 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.09 min
 Lab File: VD063442.D
 Acq: 8 Aug 2019 16:58

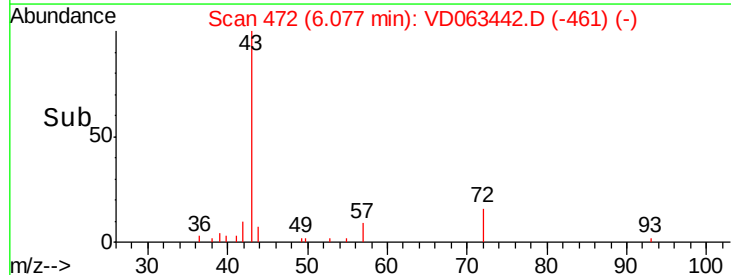
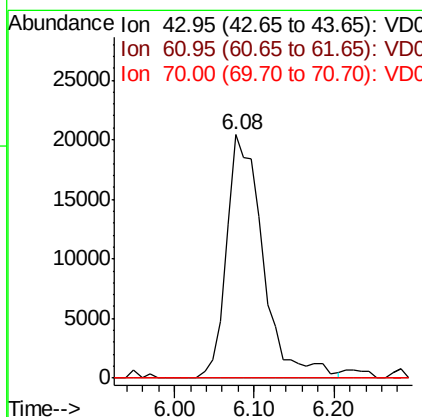
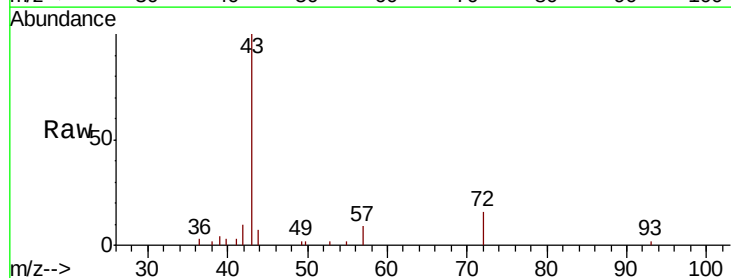
Instrument :
 MSVOA_D
 ClientSampleId :
 SP-4

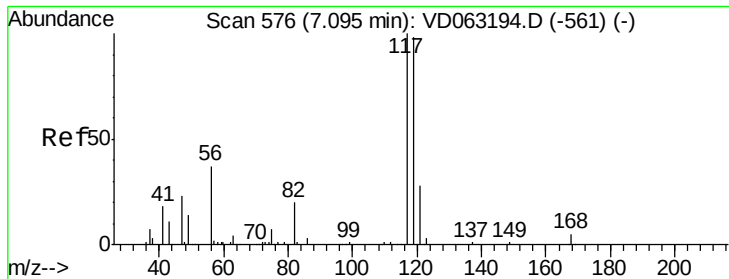
Tgt Ion: 75 Resp: 45533
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.1 48.2#
 77 0.0 22.7 34.1#



#37
 Ethyl Acetate
 Concen: 17.334 ug/l
 RT: 6.08 min Scan# 472
 Delta R.T. -0.09 min
 Lab File: VD063442.D
 Acq: 8 Aug 2019 16:58

Tgt Ion: 43 Resp: 64715
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.3 16.9#
 70 0.0 5.1 7.7#





#38

Carbon Tetrachloride

Concen: 4.877 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.03 min

Lab File: VD063442.D

Acq: 8 Aug 2019 16:58

Instrument :

MSVOA_D

ClientSampled :

SP-4

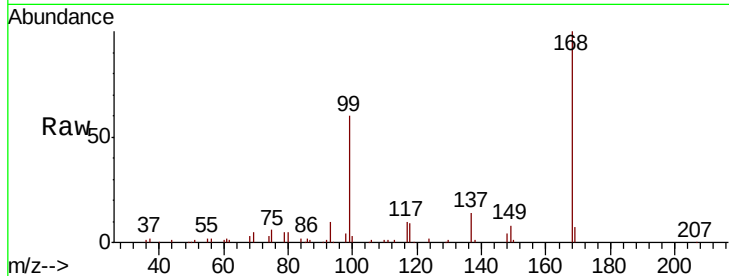
Tgt Ion:117 Resp: 61011

Ion Ratio Lower Upper

117 100

119 4.5 78.2 117.2#

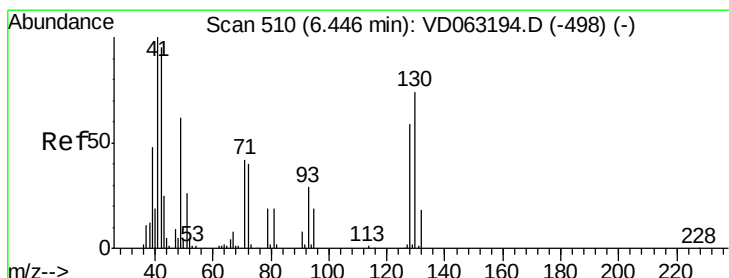
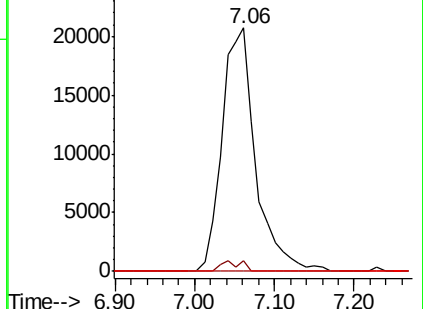
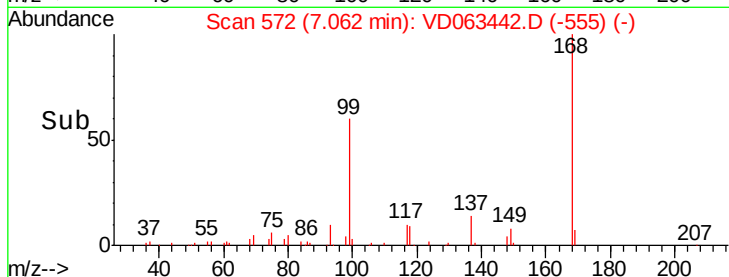
121 0.0 22.1 33.1#



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



#41

Methacrylonitrile

Concen: 2.112 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.03 min

Lab File: VD063442.D

Acq: 8 Aug 2019 16:58

Tgt Ion: 41 Resp: 9433

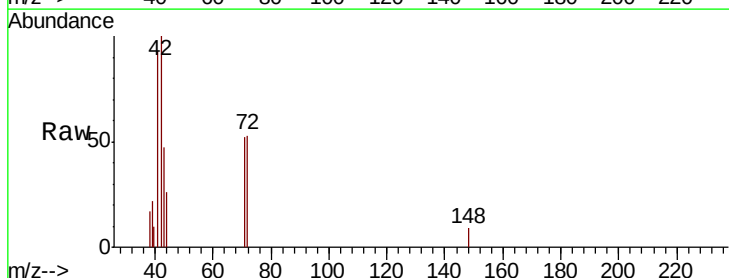
Ion Ratio Lower Upper

41 100

39 23.8 38.4 57.6#

67 0.0 6.7 10.1#

52 0.0 4.3 6.5#

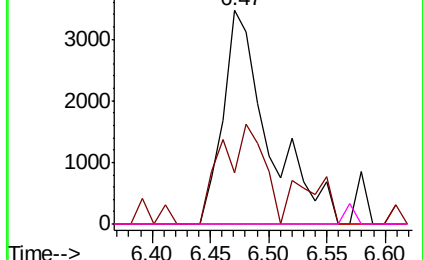
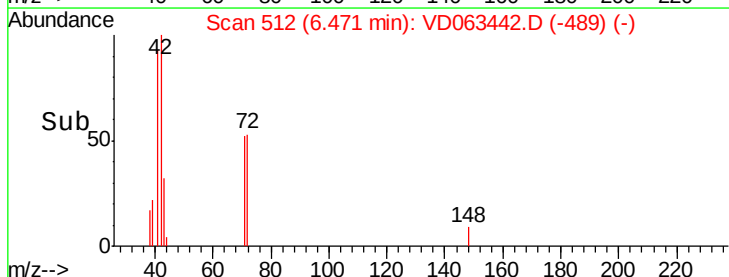


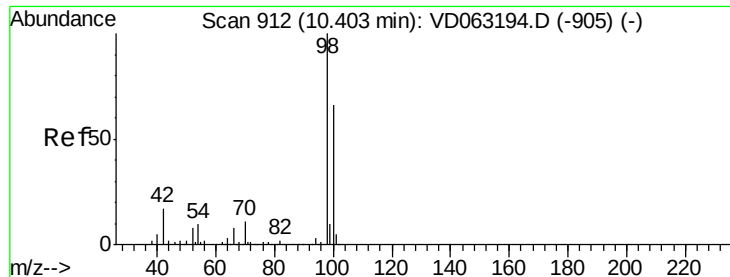
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

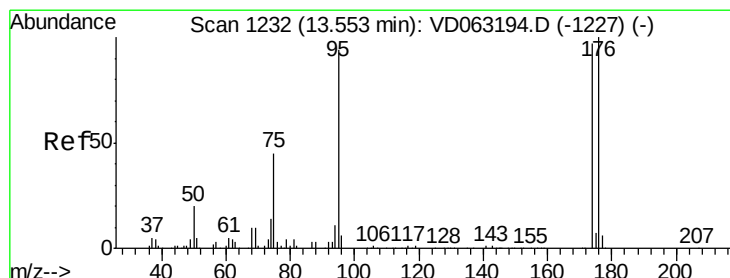
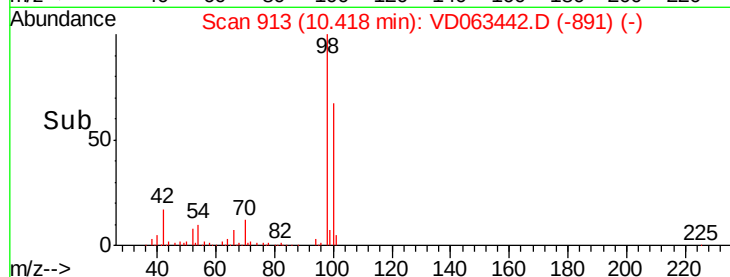
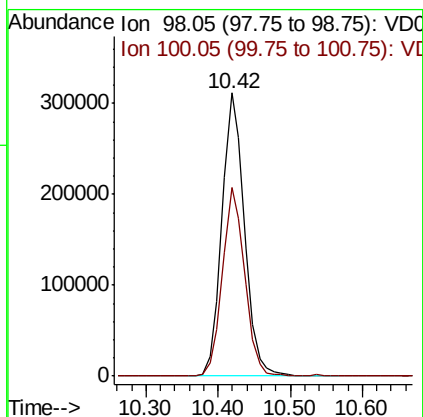
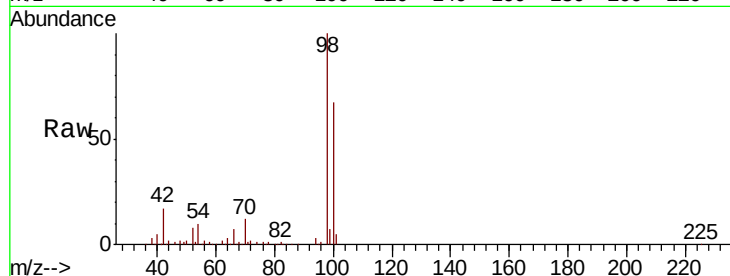




#50
Toluene-d8
Concen: 38.746 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.02 min
Lab File: VD063442.D
Acq: 8 Aug 2019 16:58

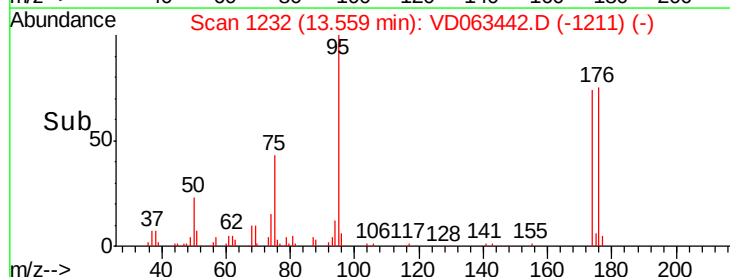
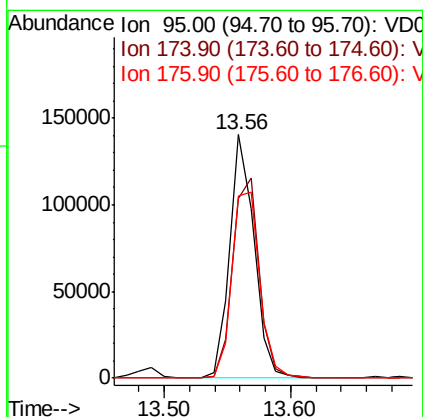
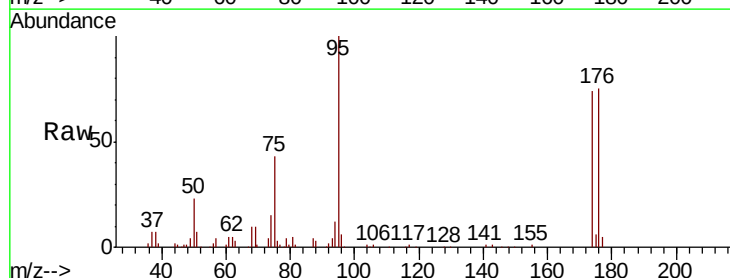
Instrument :
MSVOA_D
ClientSampleId :
SP-4

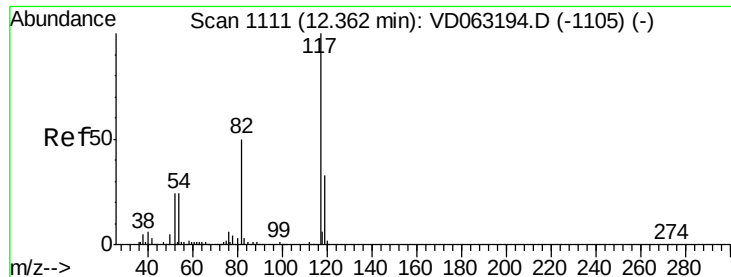
Tgt Ion: 98 Resp: 674131
Ion Ratio Lower Upper
98 100
100 66.8 53.2 79.8



#62
4-Bromofluorobenzene
Concen: 23.584 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD063442.D
Acq: 8 Aug 2019 16:58

Tgt Ion: 95 Resp: 186988
Ion Ratio Lower Upper
95 100
174 73.8 0.0 205.4
176 74.9 0.0 211.8

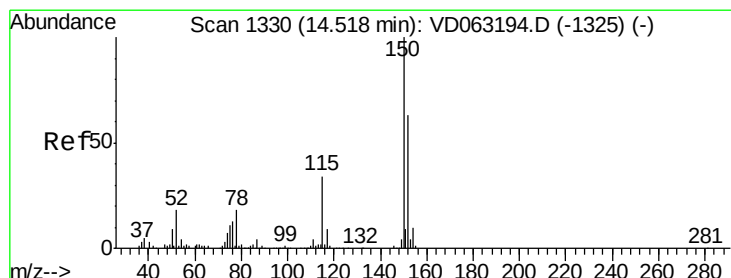
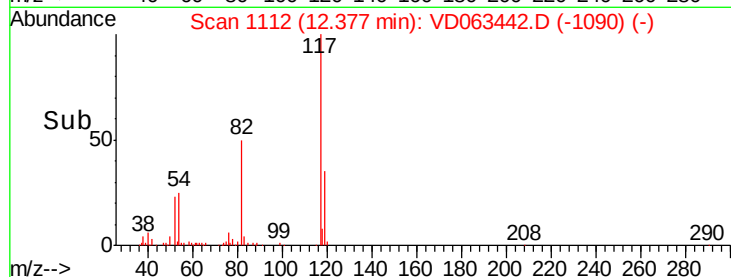
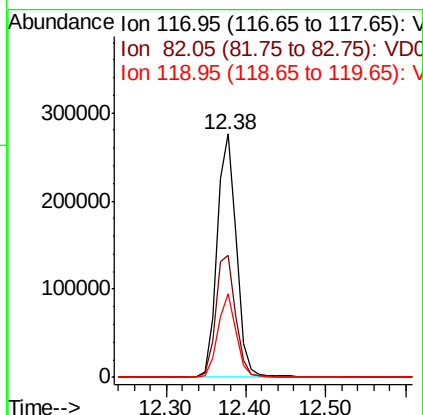
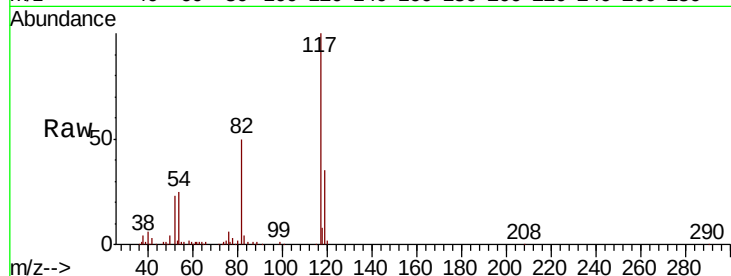




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD063442.D
Acq: 8 Aug 2019 16:58

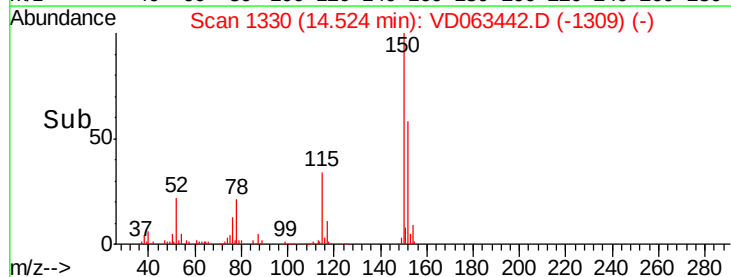
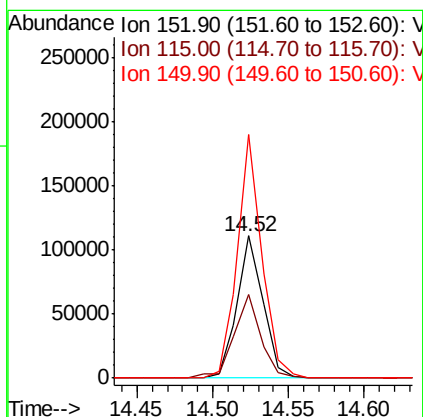
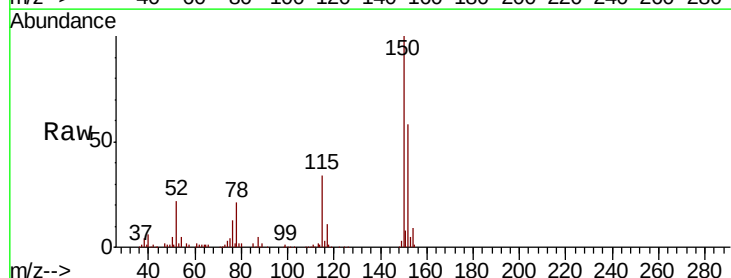
Instrument :
MSVOA_D
ClientSampled :
SP-4

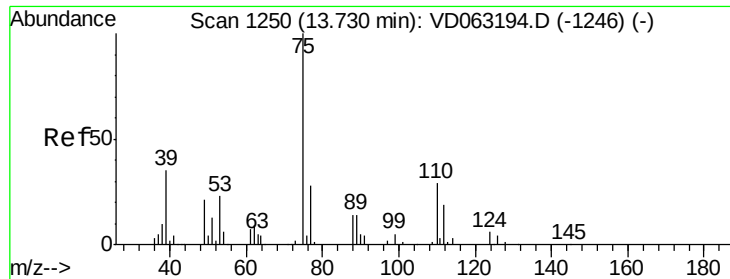
Tgt Ion:117 Resp: 472291
Ion Ratio Lower Upper
117 100
82 50.2 40.1 60.1
119 34.6 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD063442.D
Acq: 8 Aug 2019 16:58

Tgt Ion:152 Resp: 131386
Ion Ratio Lower Upper
152 100
115 59.0 27.5 82.4
150 171.1 0.0 320.6

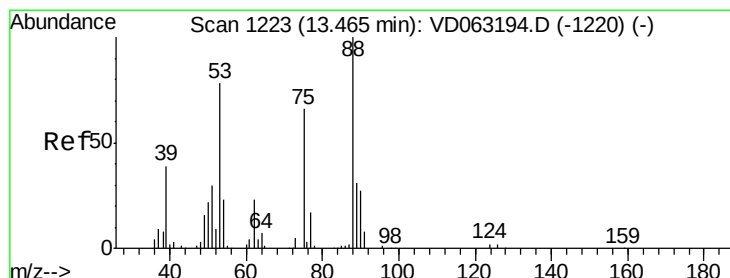
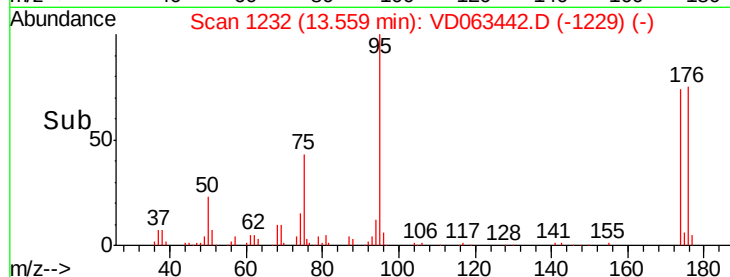
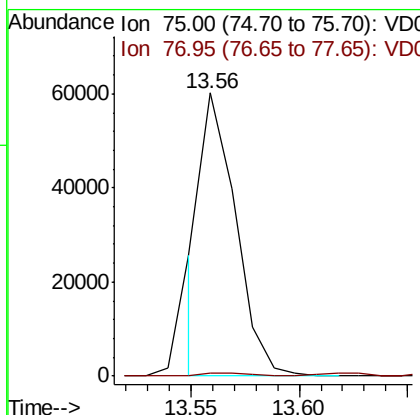
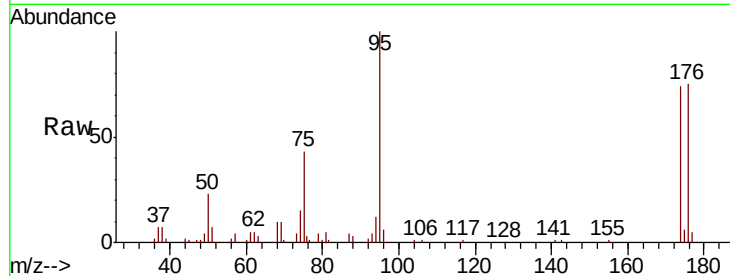




#76
 1,2,3-Trichloropropane
 Concen: 42.210 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. -0.17 min
 Lab File: VD063442.D
 Acq: 8 Aug 2019 16:58

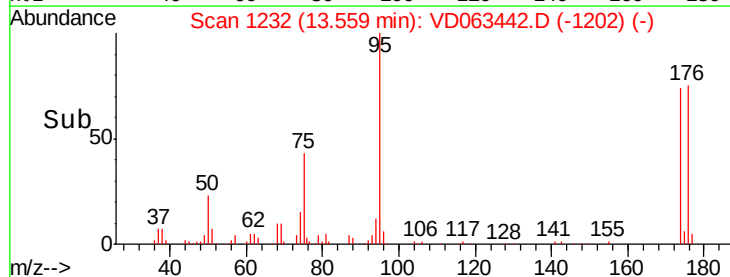
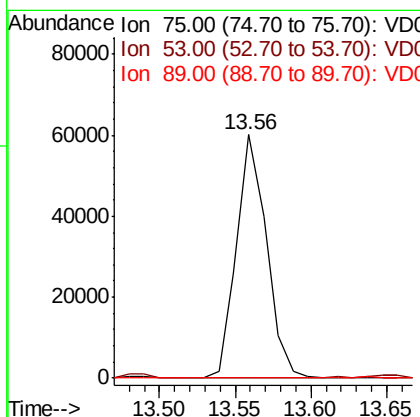
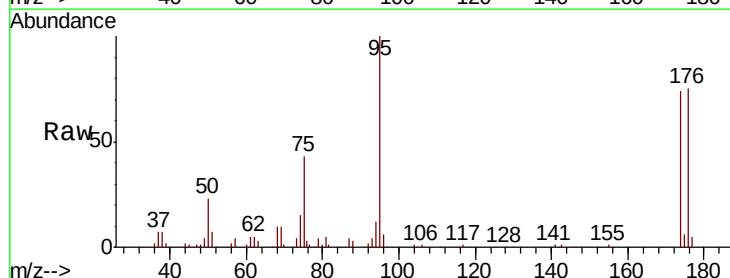
Instrument :
 MSVOA_D
 ClientSampled :
 SP-4

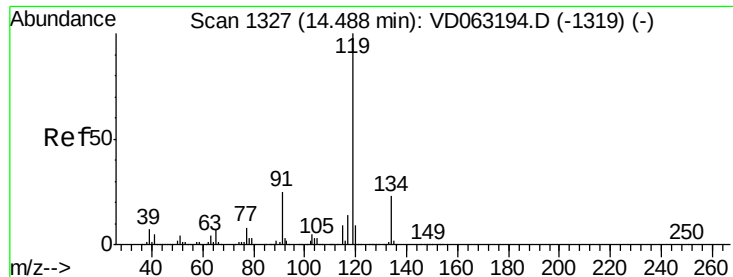
Tgt Ion: 75 Resp: 66612
 Ion Ratio Lower Upper
 75 100
 77 1.3 16.0 48.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 189.121 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. 0.09 min
 Lab File: VD063442.D
 Acq: 8 Aug 2019 16:58

Tgt Ion: 75 Resp: 82875
 Ion Ratio Lower Upper
 75 100
 53 0.0 94.9 142.3#
 89 0.0 37.4 56.0#

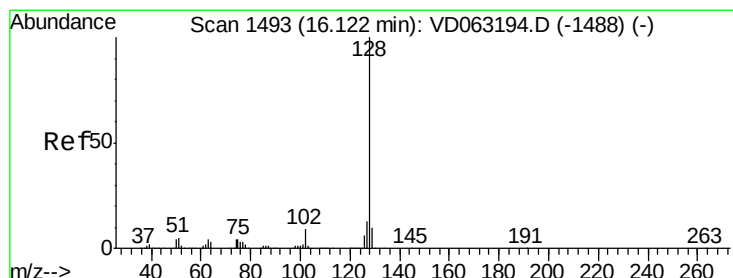
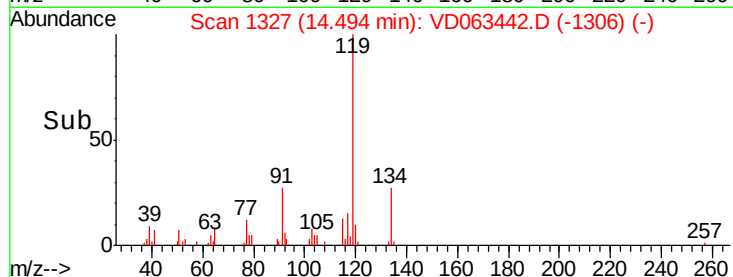
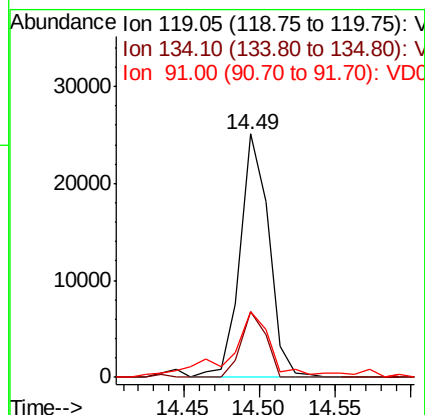
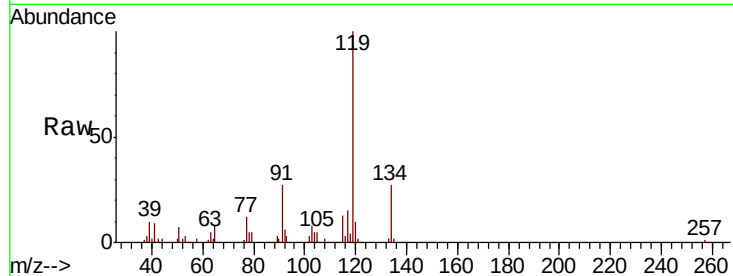




#86
 p-Isopropyltoluene
 Concen: 4.061 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. 0.01 min
 Lab File: VD063442.D
 Acq: 8 Aug 2019 16:58

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-4

Tgt Ion:119 Resp: 33162
 Ion Ratio Lower Upper
 119 100
 134 26.9 11.5 34.5
 91 26.9 12.6 37.6



#95
 Naphthalene
 Concen: 3.281 ug/l
 RT: 16.13 min Scan# 1493
 Delta R.T. 0.01 min
 Lab File: VD063442.D
 Acq: 8 Aug 2019 16:58

Tgt Ion:128 Resp: 13333
 Ion Ratio Lower Upper
 128 100
 127 14.7 10.2 15.4
 129 8.1 7.8 11.8

