

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081619\
 Data File : VD063634.D
 Acq On : 16 Aug 2019 13:32
 Operator : JC/SY
 Sample : K43546-07RE
 Misc : 2.12g/5ml/MSVOA_D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4RE

Quant Time: Aug 17 06:00:44 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	7.03	168	705227	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.21	114	908254	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	489976	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.51	152	133583	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	485590	64.42	ug/l	-0.03
Spiked Amount			Recovery	=	128.84%	
35) Dibromofluoromethane	6.91	113	464944	60.78	ug/l	-0.03
Spiked Amount			Recovery	=	121.56%	
50) Toluene-d8	10.40	98	753324	44.79	ug/l	-0.03
Spiked Amount			Recovery	=	89.58%	
62) 4-Bromofluorobenzene	13.55	95	186033	24.41	ug/l	-0.02
Spiked Amount			Recovery	=	48.82%	

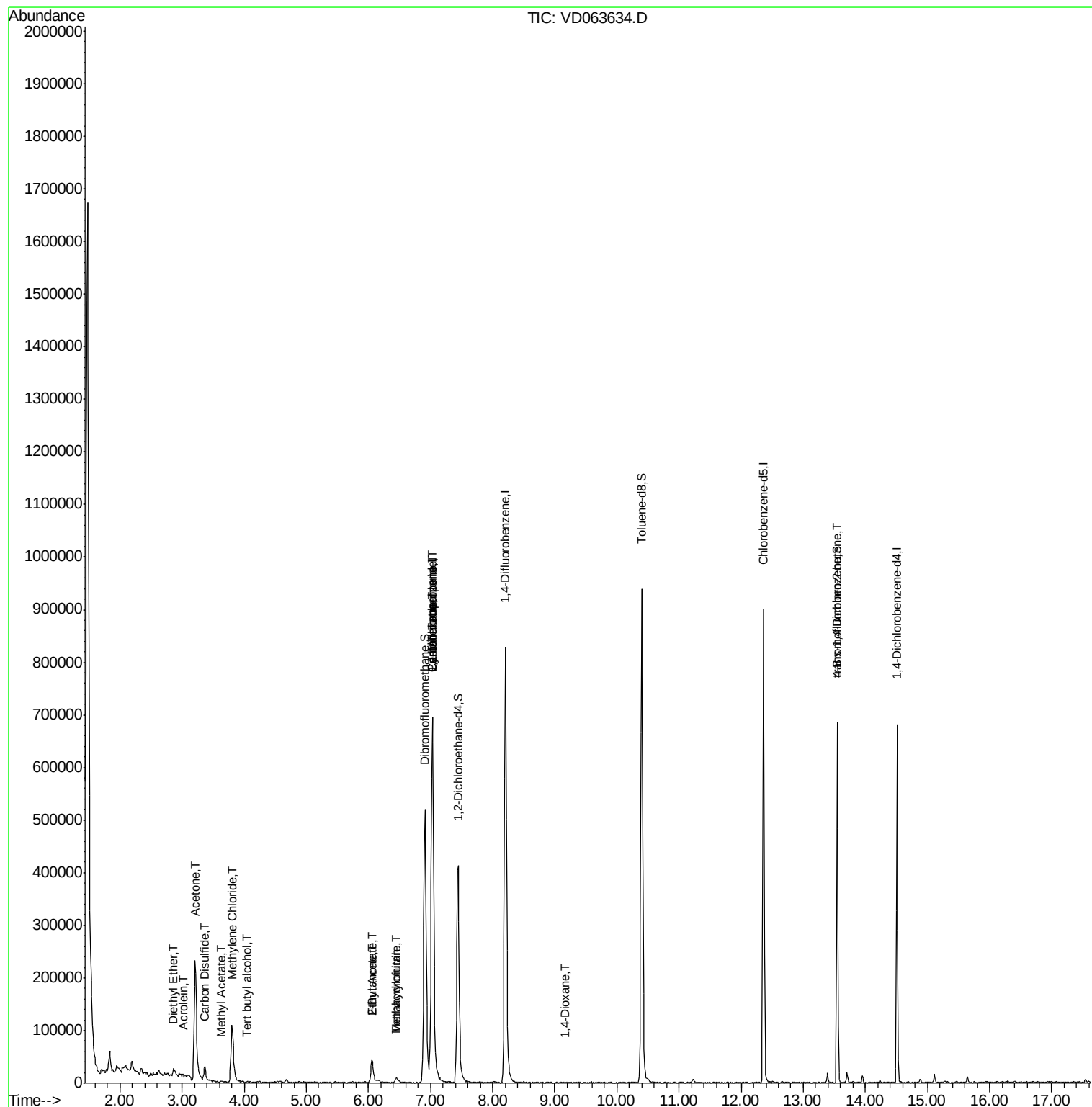
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.87	74	4656	2.541	ug/l	94
11) Tert butyl alcohol	4.05	59	1747	5.324	ug/l #	71
13) Acrolein	3.01	56	369	1.142	ug/l #	18
16) Acetone	3.21	43	462496	301.813	ug/l	96
17) Carbon Disulfide	3.37	76	46959	2.611	ug/l #	94
18) Methyl Acetate	3.63	43	5141	1.771	ug/l	100
20) Methylene Chloride	3.80	84	70989	10.713	ug/l	90
25) 2-Butanone	6.06	43	84487	55.824	ug/l	98
29) Tetrahydrofuran	6.45	42	8129	11.527	ug/l #	67
31) Cyclohexane	7.02	56	15443	2.269	ug/l #	18
36) 1,1-Dichloropropene	7.03	75	56893	7.086	ug/l #	51
37) Ethyl Acetate	6.06	43	84484	25.111	ug/l #	73
38) Carbon Tetrachloride	7.03	117	61603	5.091	ug/l #	18
41) Methacrylonitrile	6.45	41	6002	1.417	ug/l #	69
49) 1,4-Dioxane	9.17	88	182	31.244	ug/l #	34
81) trans-1,4-Dichloro-2-buten	13.55	75	87529	212.421	ug/l #	1

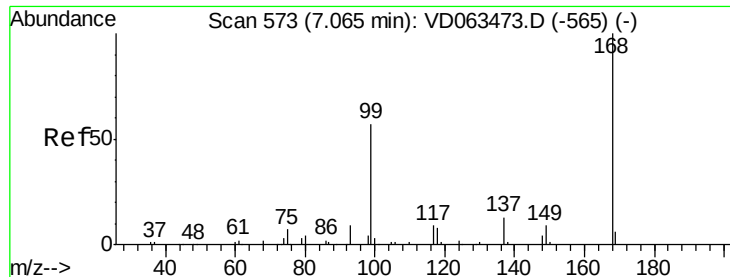
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD081619\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.04 min

Lab File: VD063634.D

Acq: 16 Aug 2019 13:32

Instrument :

MSVOA_D

ClientSampleId :

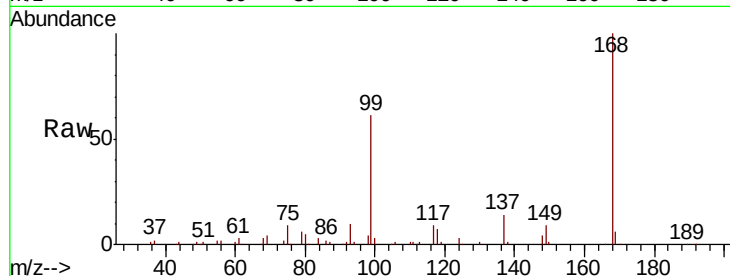
TP-4RE

Tgt Ion:168 Resp: 705227

Ion Ratio Lower Upper

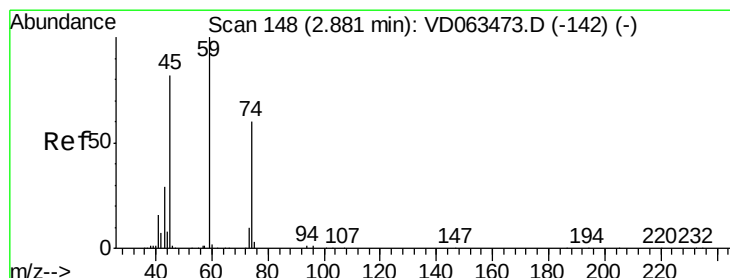
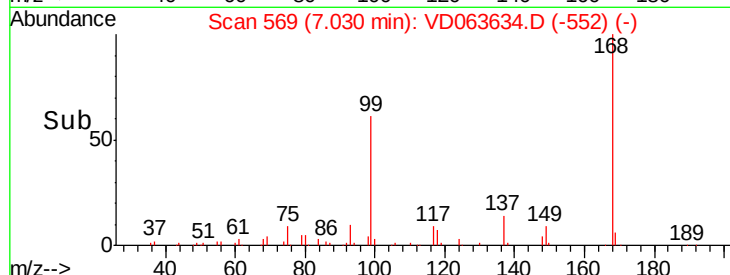
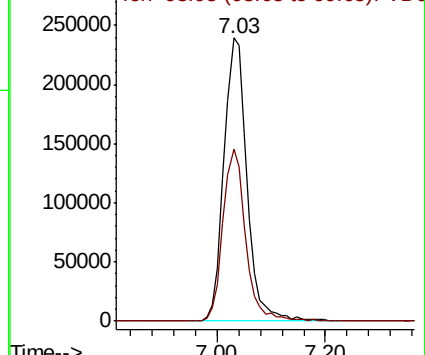
168 100

99 60.6 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 2.541 ug/l

RT: 2.87 min Scan# 146

Delta R.T. -0.02 min

Lab File: VD063634.D

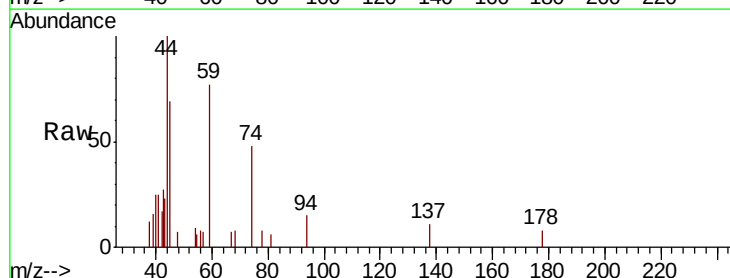
Acq: 16 Aug 2019 13:32

Tgt Ion: 74 Resp: 4656

Ion Ratio Lower Upper

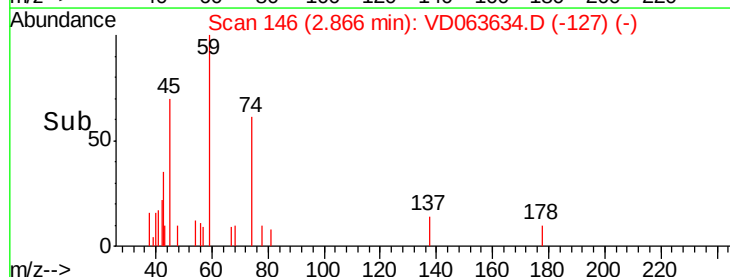
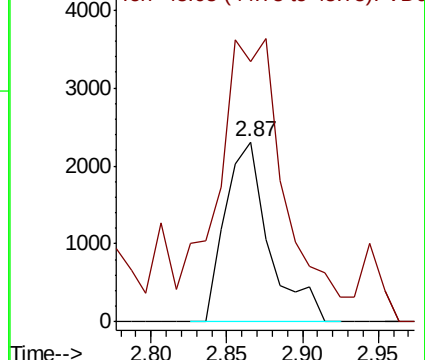
74 100

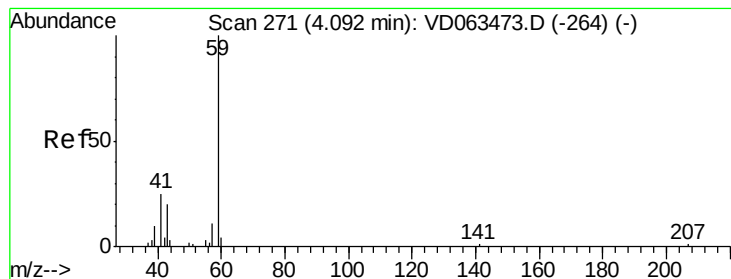
45 144.4 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#11

Tert butyl alcohol

Concen: 5.324 ug/l

RT: 4.05 min Scan# 266

Delta R.T. -0.04 min

Lab File: VD063634.D

Acq: 16 Aug 2019 13:32

Instrument :

MSVOA_D

ClientSampled :

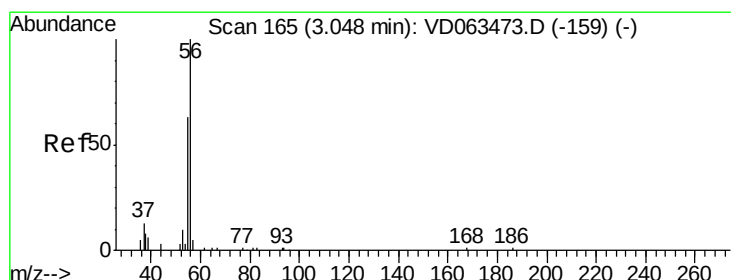
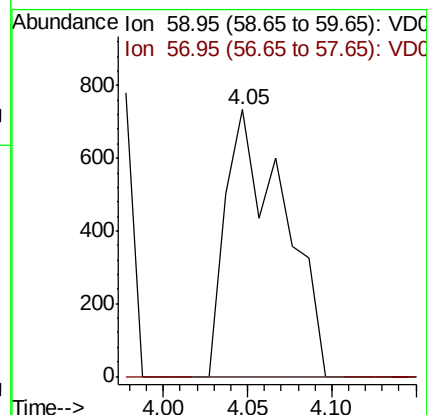
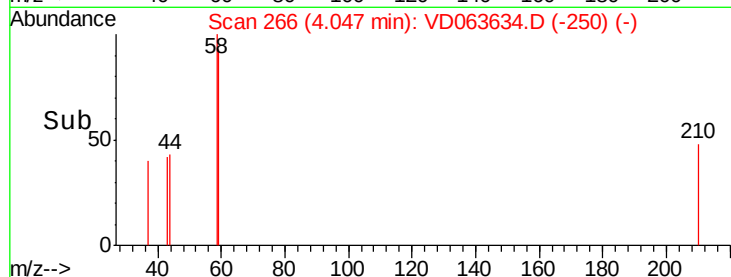
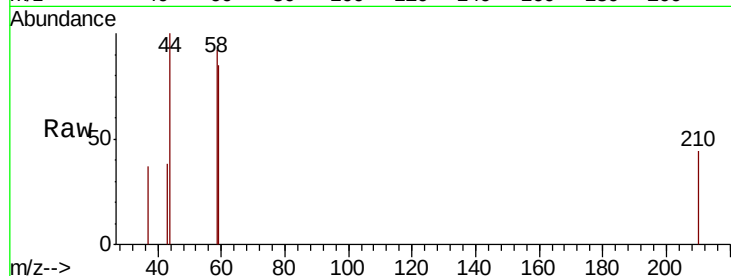
TP-4RE

Tgt Ion: 59 Resp: 1747

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#13

Acrolein

Concen: 1.142 ug/l

RT: 3.01 min Scan# 161

Delta R.T. -0.04 min

Lab File: VD063634.D

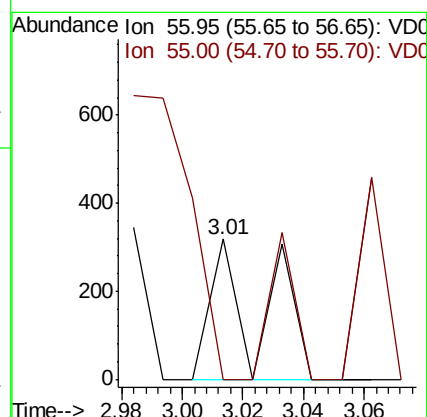
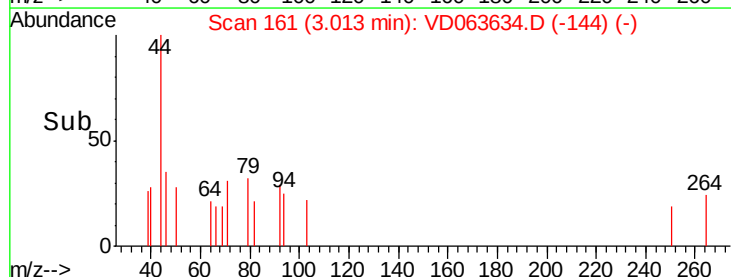
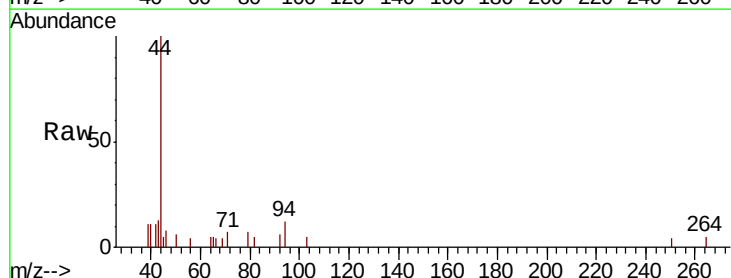
Acq: 16 Aug 2019 13:32

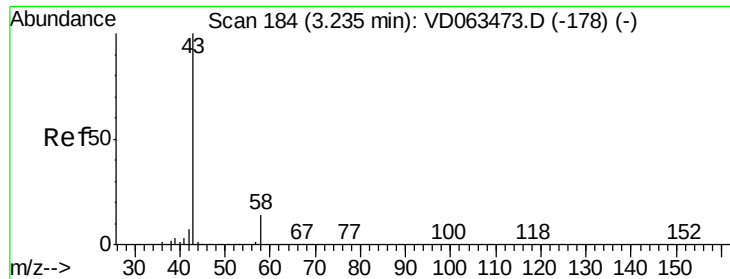
Tgt Ion: 56 Resp: 369

Ion Ratio Lower Upper

56 100

55 0.0 51.3 76.9#





#16

Acetone

Concen: 301.813 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD063634.D

Acq: 16 Aug 2019 13:32

Instrument :

MSVOA_D

ClientSampleId :

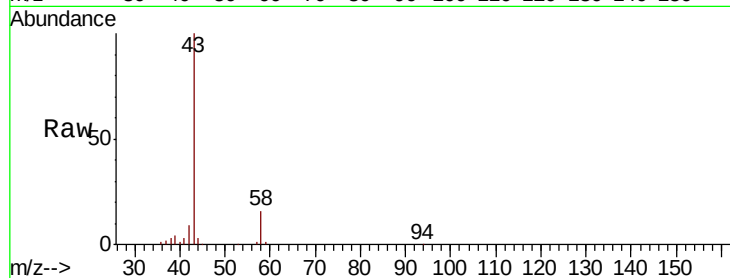
TP-4RE

Tgt Ion: 43 Resp: 462496

Ion Ratio Lower Upper

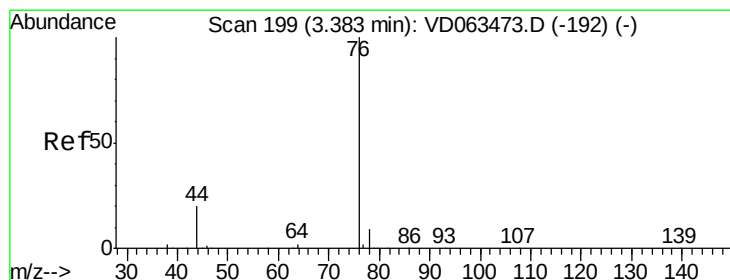
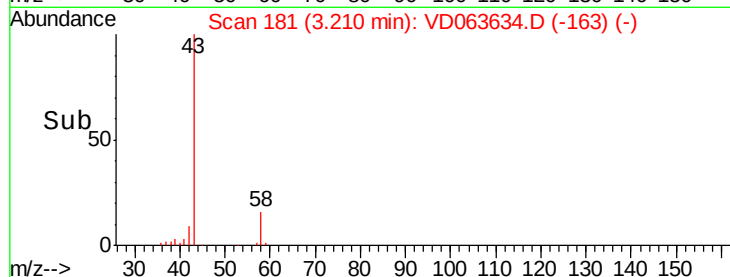
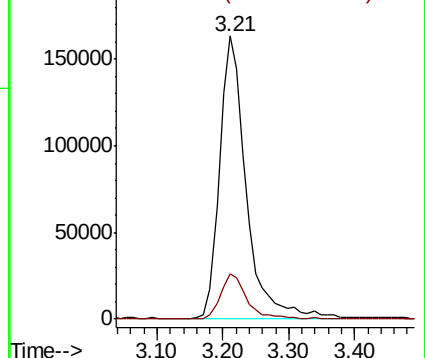
43 100

58 16.1 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 2.611 ug/l

RT: 3.37 min Scan# 197

Delta R.T. -0.02 min

Lab File: VD063634.D

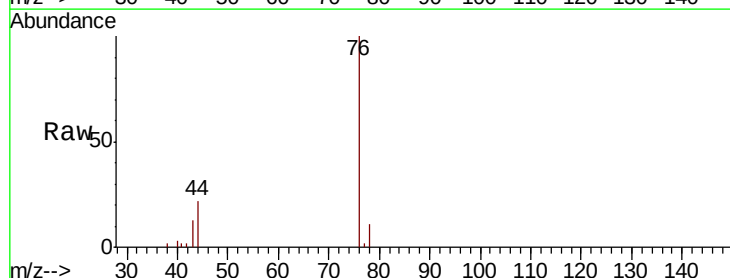
Acq: 16 Aug 2019 13:32

Tgt Ion: 76 Resp: 46959

Ion Ratio Lower Upper

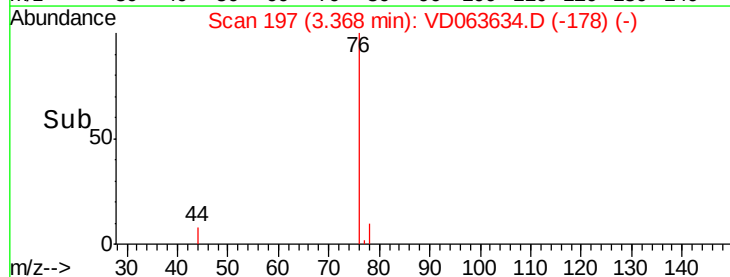
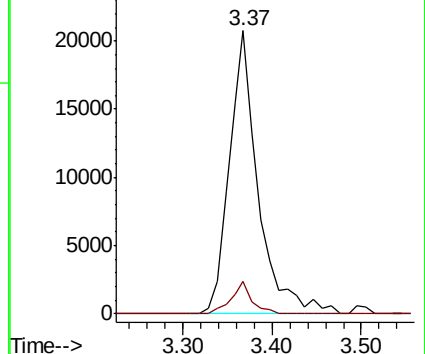
76 100

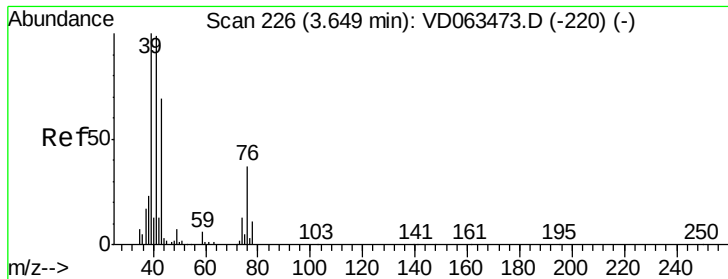
78 11.5 7.4 11.0#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

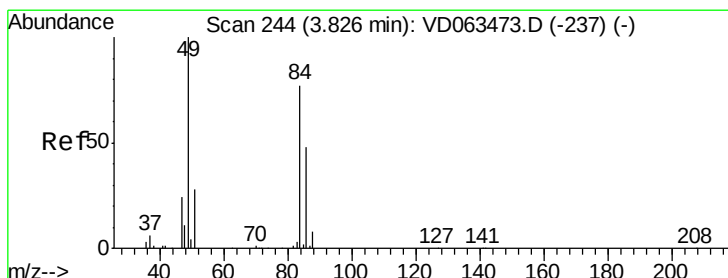
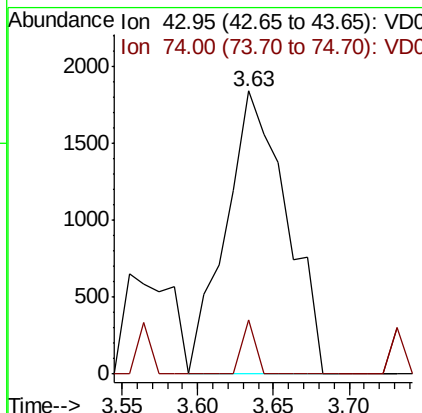
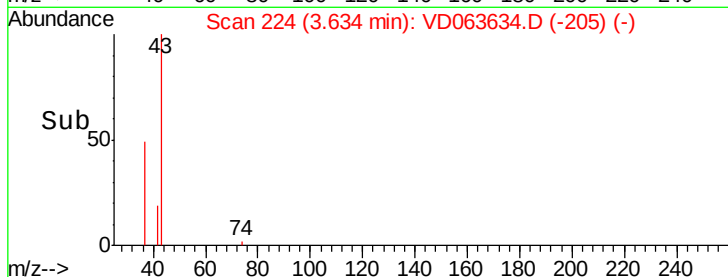
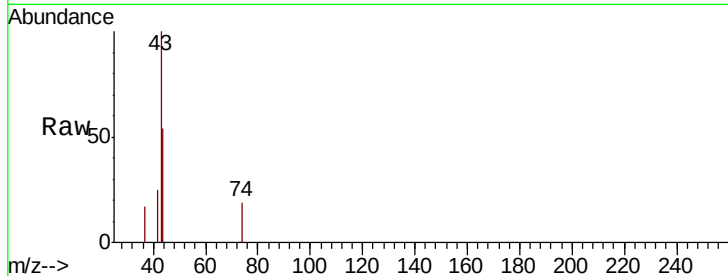




#18
Methyl Acetate
Concen: 1.771 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.02 min
Lab File: VD063634.D
Acq: 16 Aug 2019 13:32

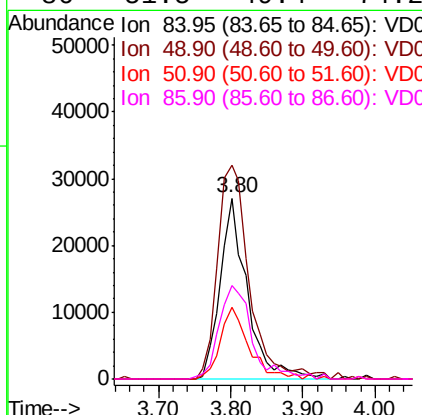
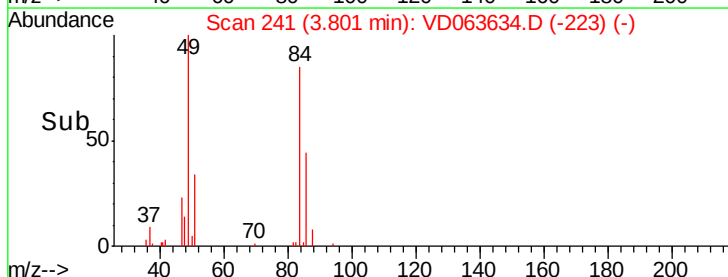
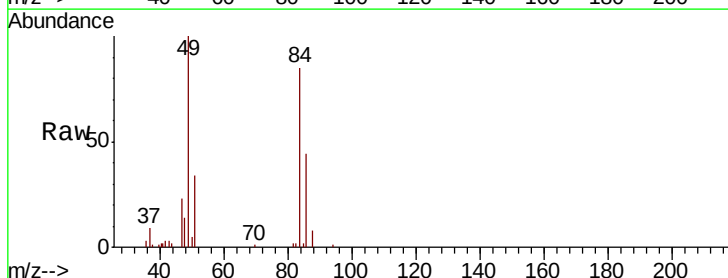
Instrument :
MSVOA_D
ClientSampleId :
TP-4RE

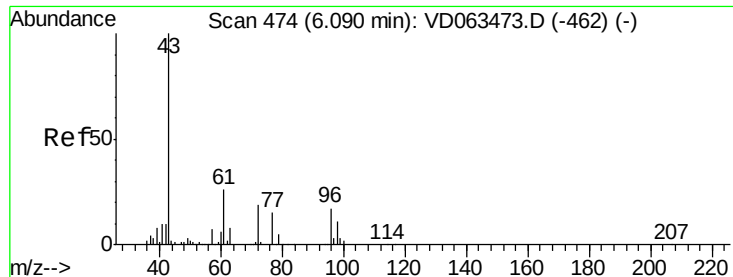
Tgt Ion: 43 Resp: 5141
Ion Ratio Lower Upper
43 100
74 19.2 15.4 23.2



#20
Methylene Chloride
Concen: 10.713 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.03 min
Lab File: VD063634.D
Acq: 16 Aug 2019 13:32

Tgt Ion: 84 Resp: 70989
Ion Ratio Lower Upper
84 100
49 118.2 103.4 155.2
51 39.7 28.5 42.7
86 51.5 49.4 74.2

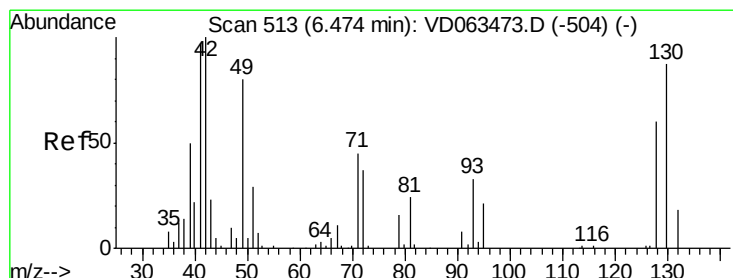
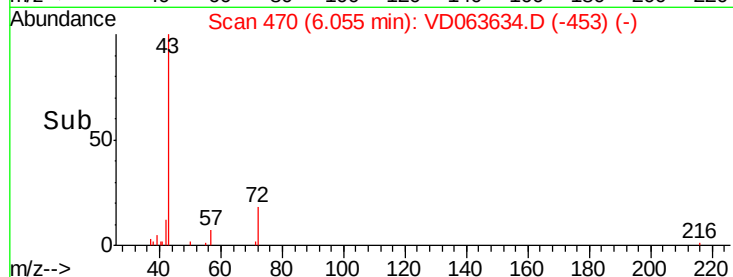
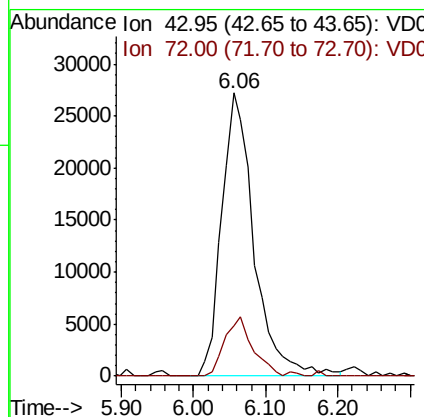
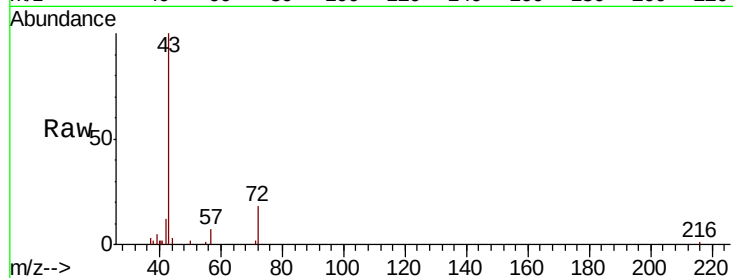




#25
2-Butanone
Concen: 55.824 ug/l
RT: 6.06 min Scan# 470
Delta R.T. -0.04 min
Lab File: VD063634.D
Acq: 16 Aug 2019 13:32

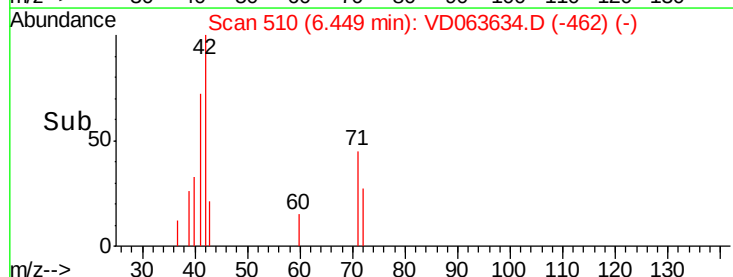
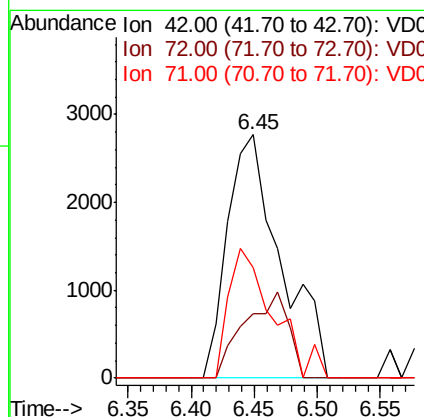
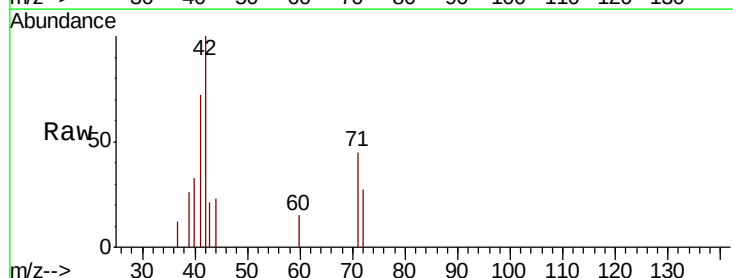
Instrument :
MSVOA_D
ClientSampleId :
TP-4RE

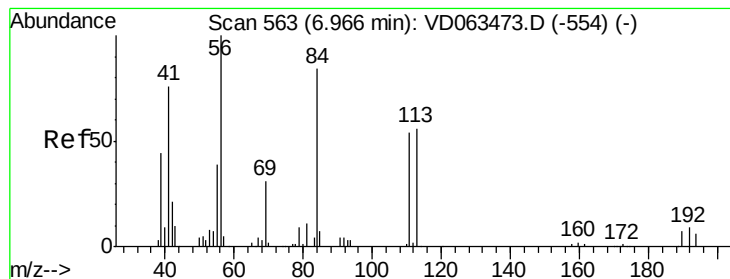
Tgt Ion: 43 Resp: 84487
Ion Ratio Lower Upper
43 100
72 18.0 15.1 22.7



#29
Tetrahydrofuran
Concen: 11.527 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.03 min
Lab File: VD063634.D
Acq: 16 Aug 2019 13:32

Tgt Ion: 42 Resp: 8129
Ion Ratio Lower Upper
42 100
72 0.0 31.5 47.3#
71 44.2 33.8 50.8





#31

Cyclohexane

Concen: 2.269 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.05 min

Lab File: VD063634.D

Acq: 16 Aug 2019 13:32

Instrument :

MSVOA_D

ClientSampleId :

TP-4RE

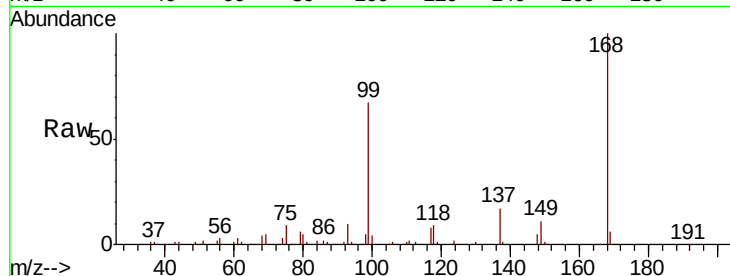
Tgt Ion: 56 Resp: 15443

Ion Ratio Lower Upper

56 100

69 169.7 25.0 37.6#

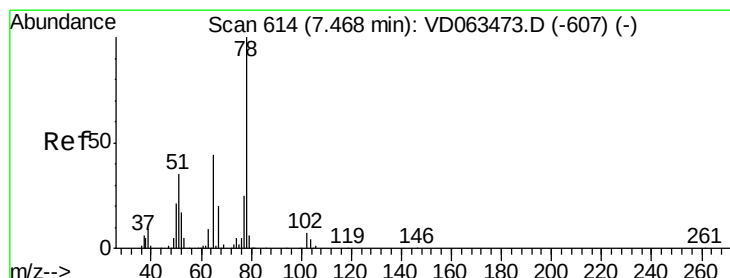
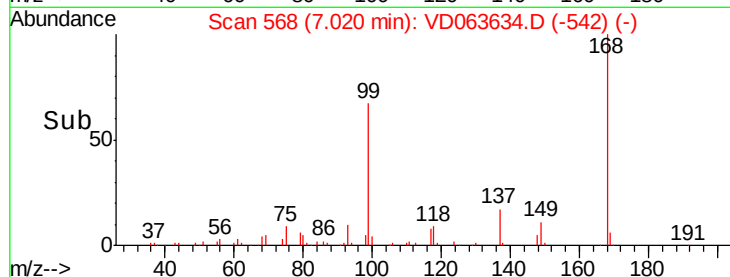
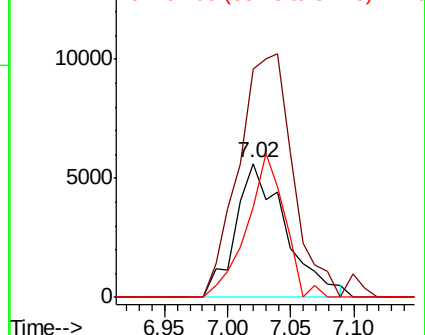
84 66.9 69.7 104.5#



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: 64.416 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.03 min

Lab File: VD063634.D

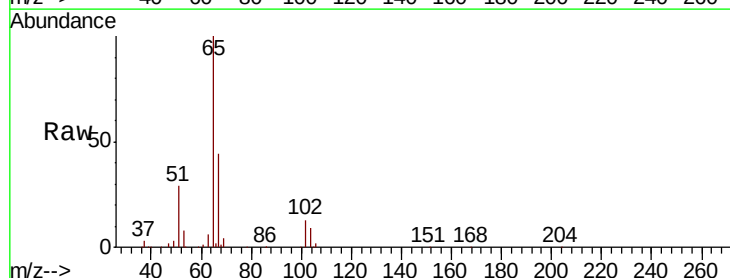
Acq: 16 Aug 2019 13:32

Tgt Ion: 65 Resp: 485590

Ion Ratio Lower Upper

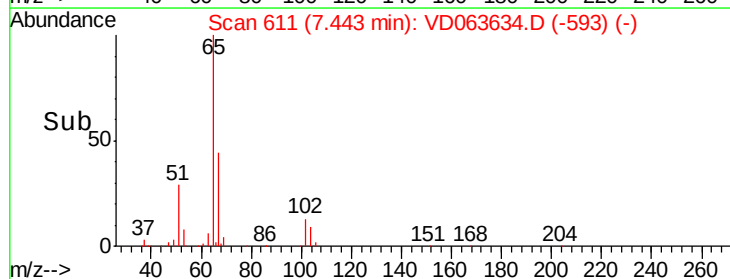
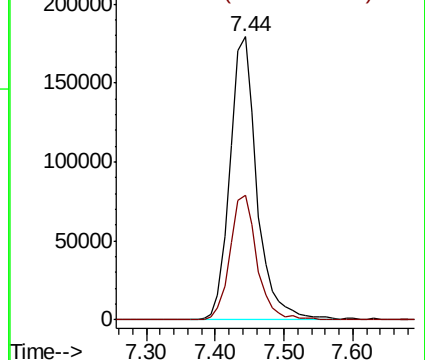
65 100

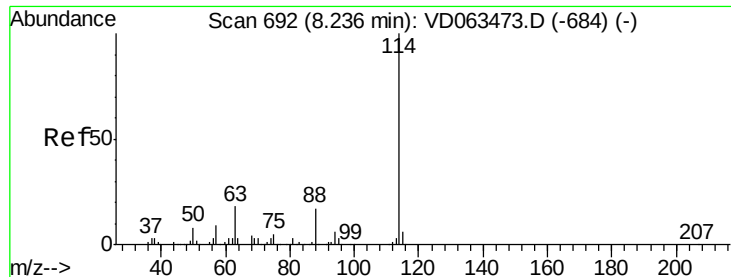
67 43.8 0.0 89.2



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: 8.21 min Scan# 689

Delta R.T. -0.03 min

Lab File: VD063634.D

Acq: 16 Aug 2019 13:32

Instrument :

MSVOA_D

ClientSampleId :

TP-4RE

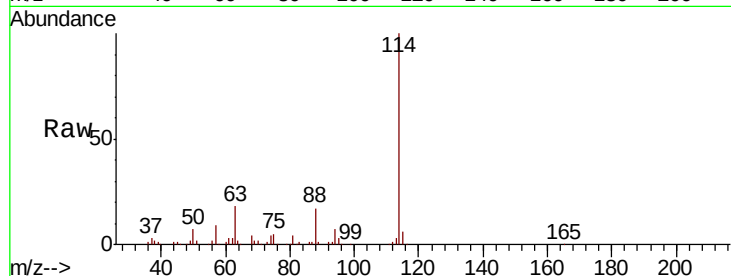
Tgt Ion:114 Resp: 908254

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.2

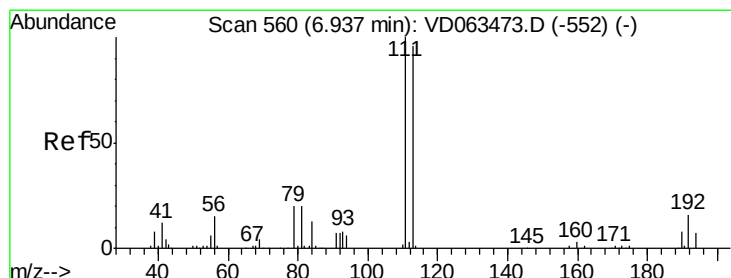
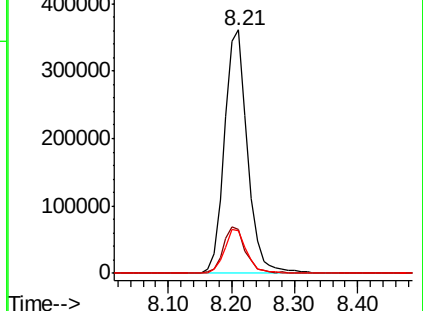
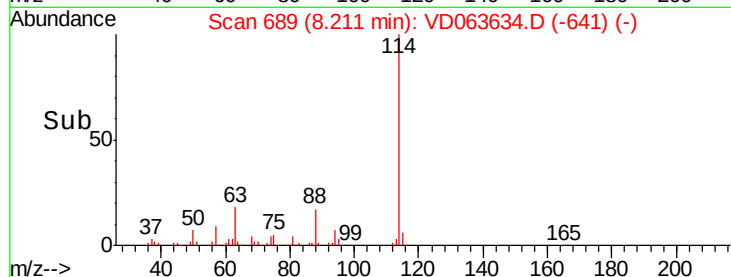
88 17.4 0.0 35.0



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: 60.782 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD063634.D

Acq: 16 Aug 2019 13:32

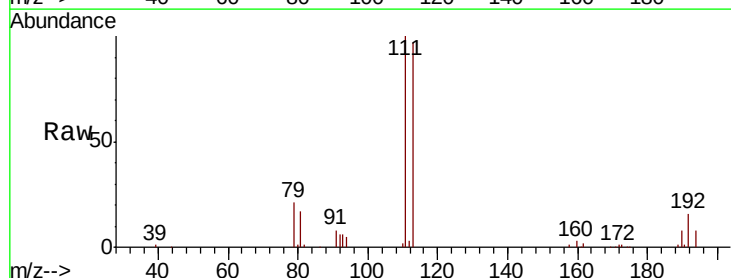
Tgt Ion:113 Resp: 464944

Ion Ratio Lower Upper

113 100

111 103.3 83.1 124.7

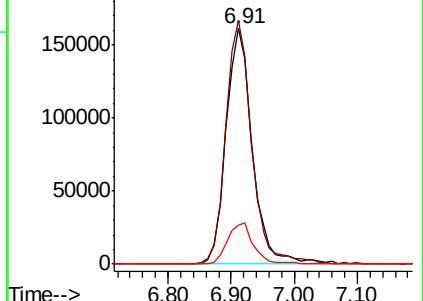
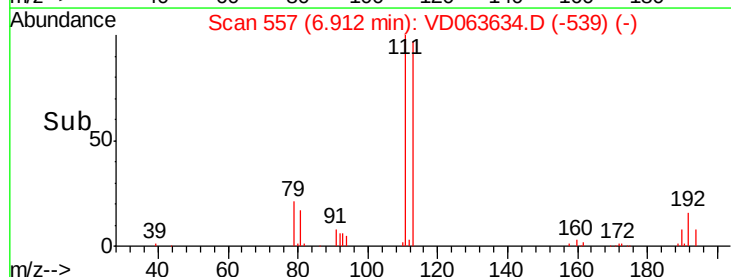
192 16.5 13.1 19.7

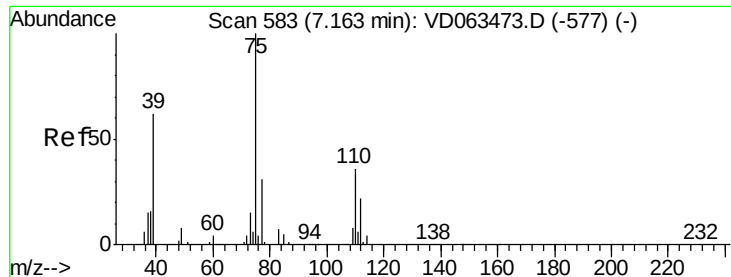


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

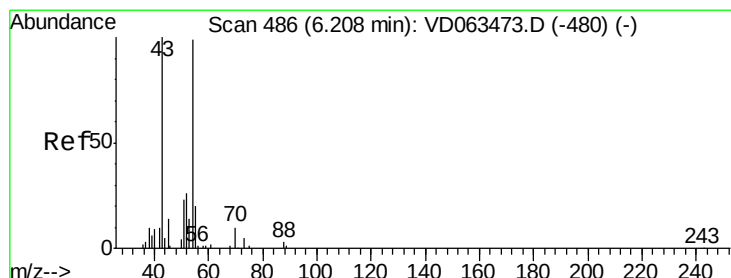
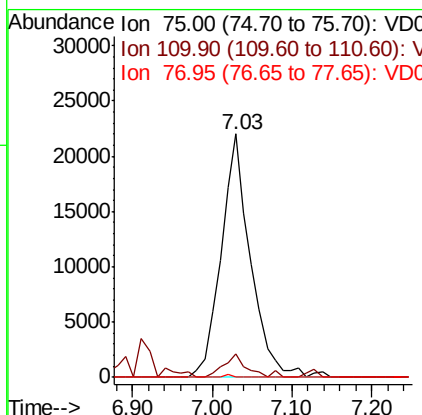
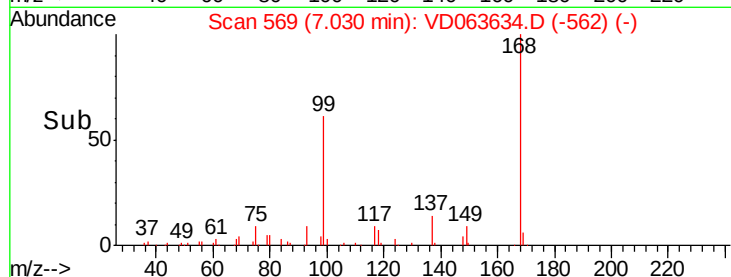
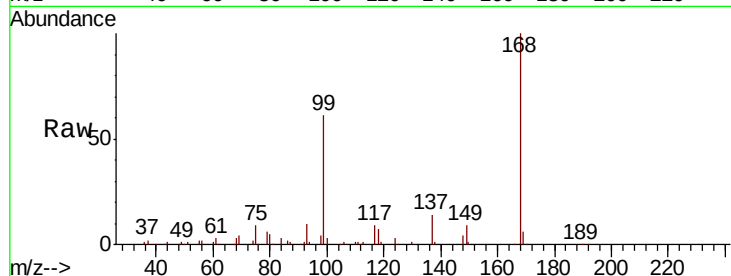




#36
 1,1-Dichloropropene
 Concen: 7.086 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.13 min
 Lab File: VD063634.D
 Acq: 16 Aug 2019 13:32

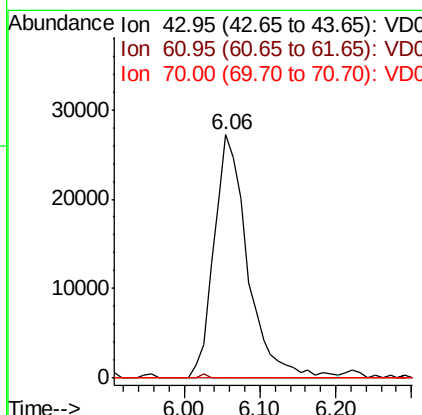
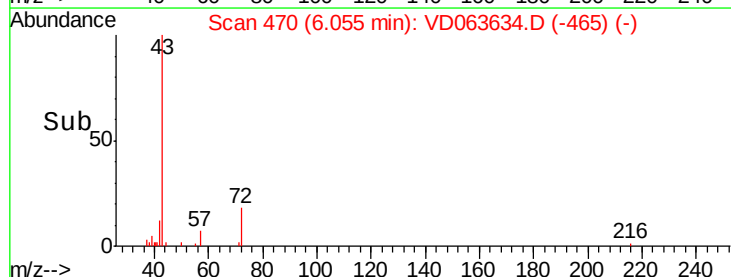
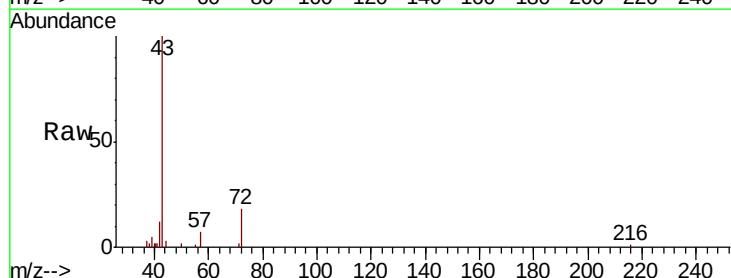
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4RE

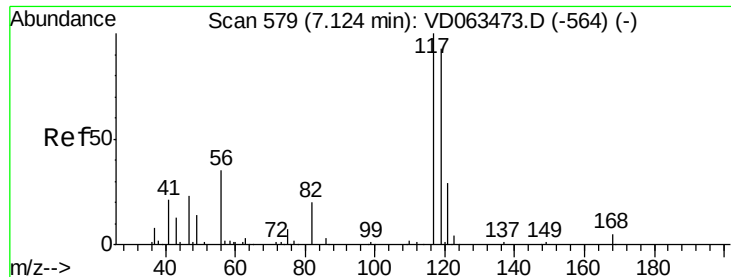
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	17.6	52.8#
77	0.0	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 25.111 ug/l
 RT: 6.06 min Scan# 470
 Delta R.T. -0.15 min
 Lab File: VD063634.D
 Acq: 16 Aug 2019 13:32

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.0	13.6#
70	0.0	6.9	10.3#





#38

Carbon Tetrachloride

Concen: 5.091 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.09 min

Lab File: VD063634.D

Acq: 16 Aug 2019 13:32

Instrument :

MSVOA_D

ClientSampleId :

TP-4RE

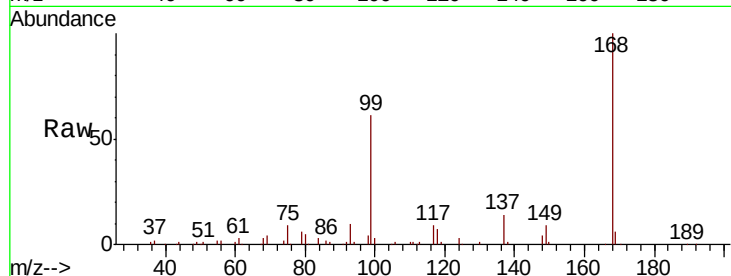
Tgt Ion:117 Resp: 61603

Ion Ratio Lower Upper

117 100

119 6.0 74.2 111.2#

121 0.0 23.1 34.7#

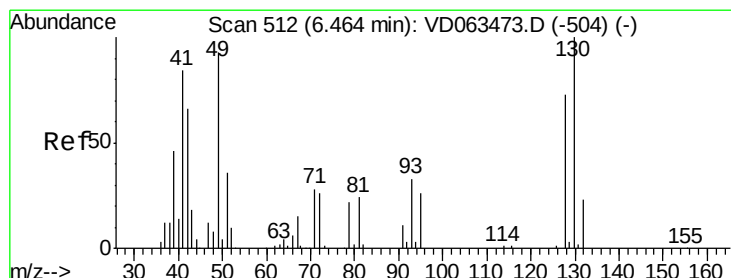
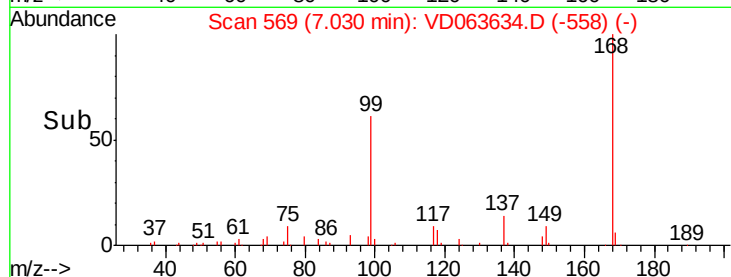
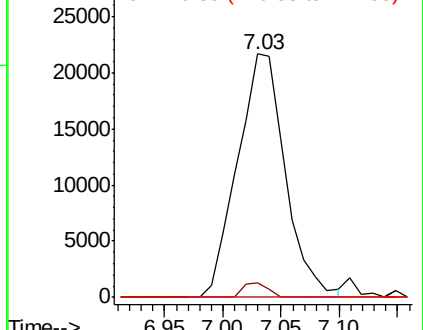


Abundance

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: 1.417 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD063634.D

Acq: 16 Aug 2019 13:32

Tgt Ion: 41 Resp: 6002

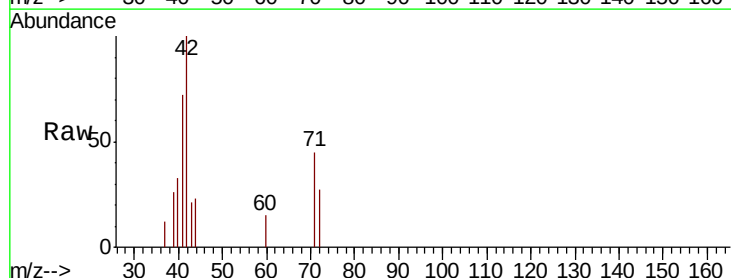
Ion Ratio Lower Upper

41 100

39 35.7 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#



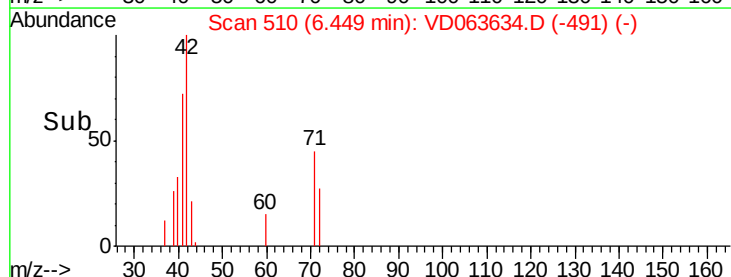
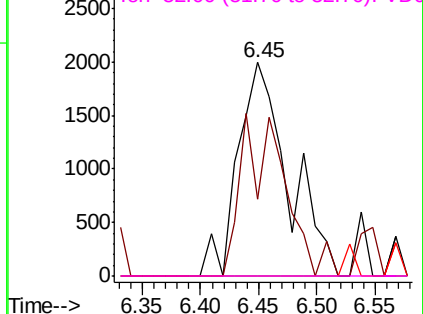
Abundance

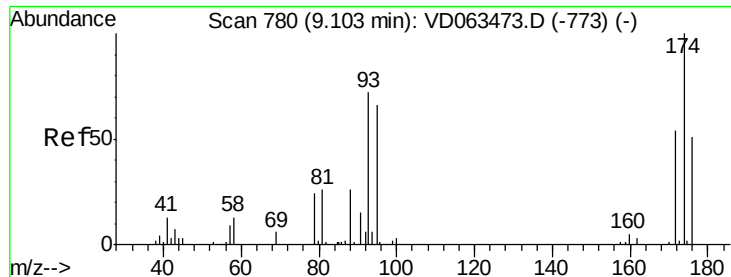
Ion 40.95 (40.65 to 41.65): VDC

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

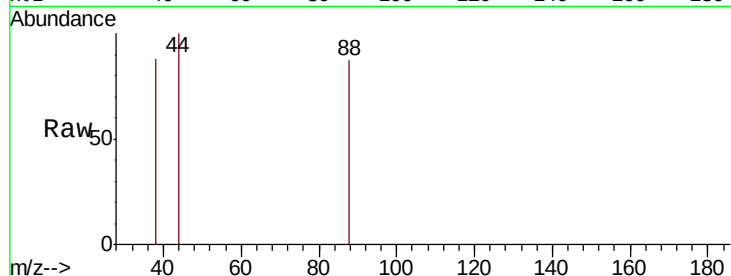




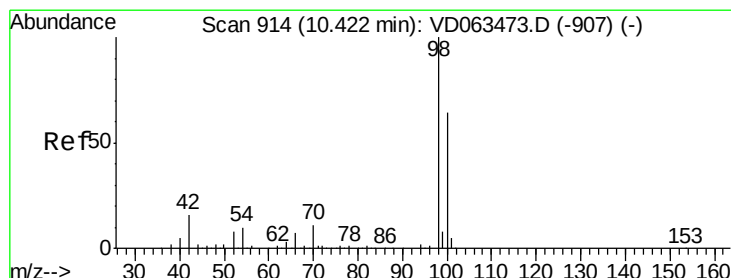
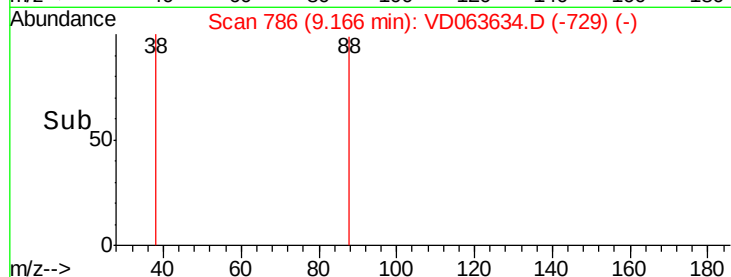
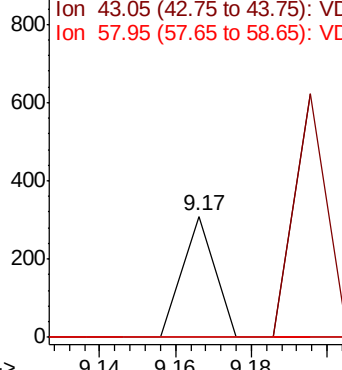
#49
 1,4-Dioxane
 Concen: 31.244 ug/l
 RT: 9.17 min Scan# 786
 Delta R.T. 0.06 min
 Lab File: VD063634.D
 Acq: 16 Aug 2019 13:32

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4RE

Tgt Ion: 88 Resp: 182
 Ion Ratio Lower Upper
 88 100
 43 0.0 22.9 34.3#
 58 0.0 40.1 60.1#

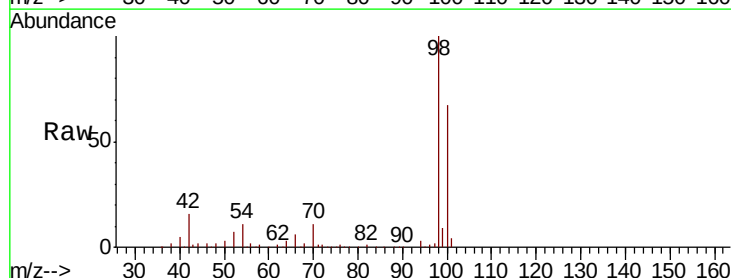


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

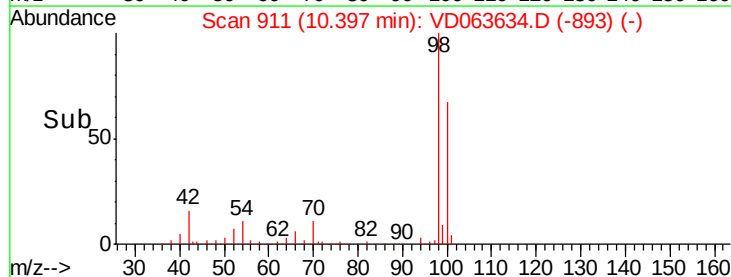
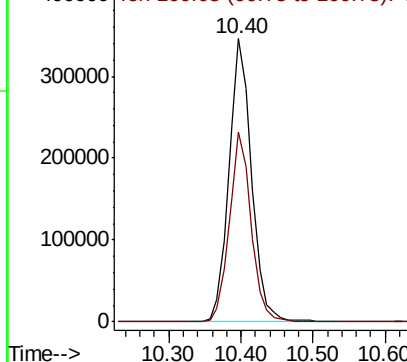


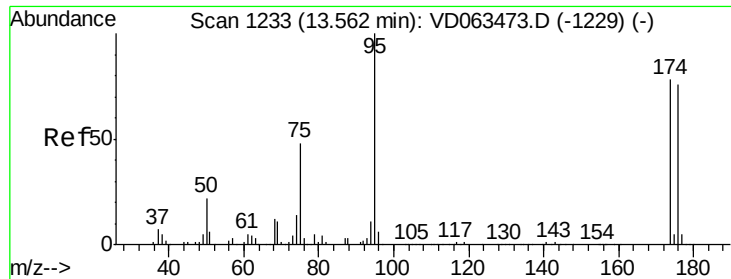
#50
 Toluene-d8
 Concen: 44.794 ug/l
 RT: 10.40 min Scan# 911
 Delta R.T. -0.03 min
 Lab File: VD063634.D
 Acq: 16 Aug 2019 13:32

Tgt Ion: 98 Resp: 753324
 Ion Ratio Lower Upper
 98 100
 100 67.2 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC
 Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: 24.406 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VD063634.D

Acq: 16 Aug 2019 13:32

Instrument :

MSVOA_D

ClientSampleId :

TP-4RE

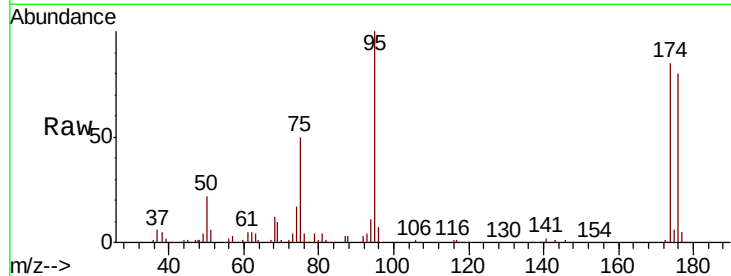
Tgt Ion: 95 Resp: 186033

Ion Ratio Lower Upper

95 100

174 85.3 0.0 155.4

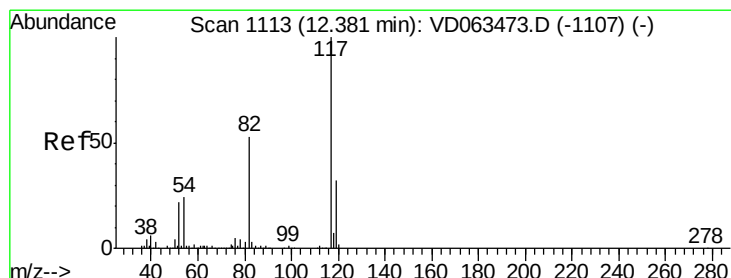
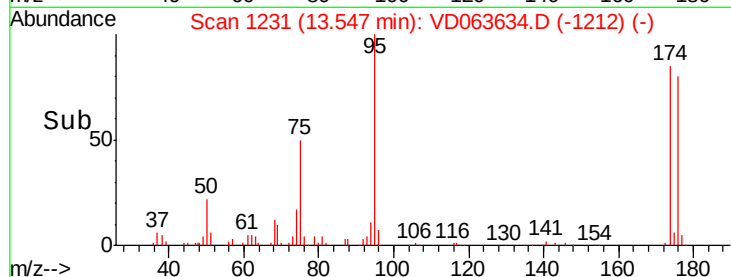
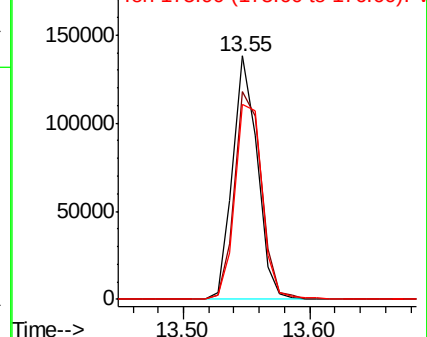
176 79.9 0.0 152.4



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# 1110

Delta R.T. -0.03 min

Lab File: VD063634.D

Acq: 16 Aug 2019 13:32

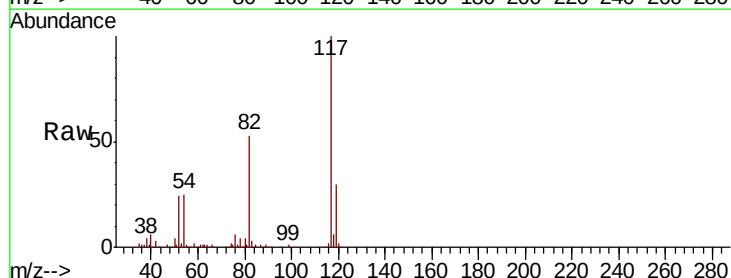
Tgt Ion: 117 Resp: 489976

Ion Ratio Lower Upper

117 100

82 52.6 42.0 63.0

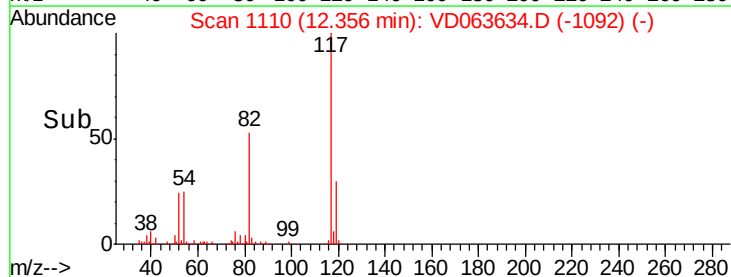
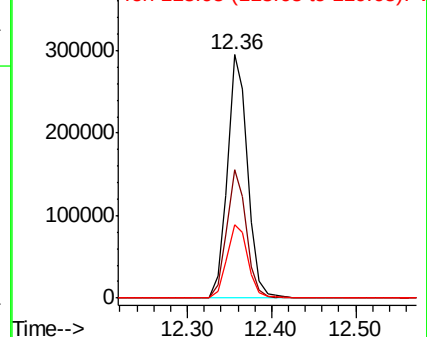
119 30.3 25.4 38.0

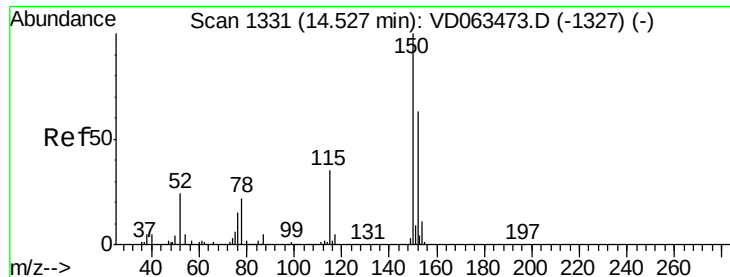


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

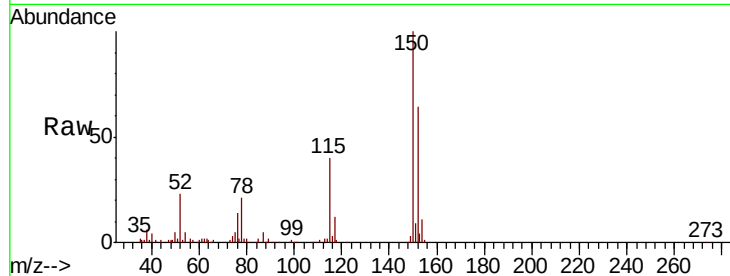




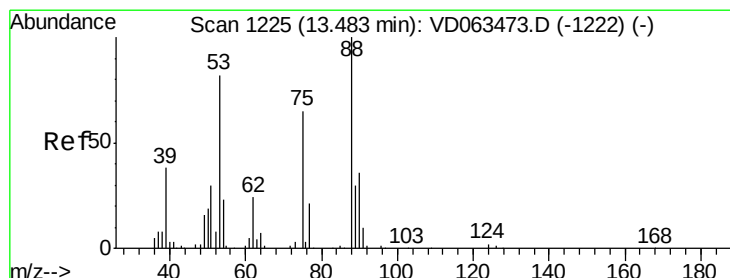
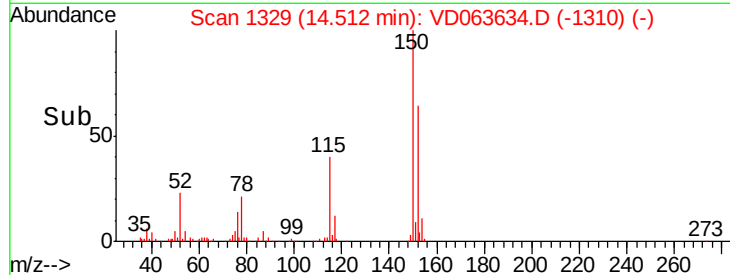
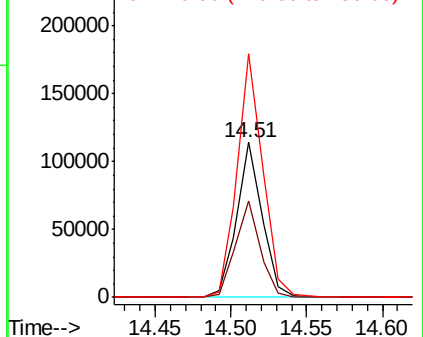
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.51 min Scan# 1329
 Delta R.T. -0.02 min
 Lab File: VD063634.D
 Acq: 16 Aug 2019 13:32

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4RE

Tgt Ion: 152 Resp: 133583
 Ion Ratio Lower Upper
 152 100
 115 62.2 30.9 92.7
 150 157.2 0.0 318.6

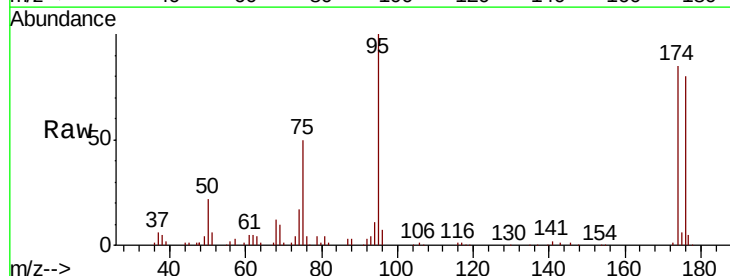


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V



#81
 trans-1,4-Dichloro-2-butene
 Concen: 212.421 ug/l
 RT: 13.55 min Scan# 1231
 Delta R.T. 0.06 min
 Lab File: VD063634.D
 Acq: 16 Aug 2019 13:32

Tgt Ion: 75 Resp: 87529
 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): VDC
 Ion 53.00 (52.70 to 53.70): VDC
 Ion 89.00 (88.70 to 89.70): VDC

