

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081619\
 Data File : VD063635.D
 Acq On : 16 Aug 2019 13:59
 Operator : JC/SY
 Sample : K4356-09RE
 Misc : 5.51g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5RE

Quant Time: Aug 17 06:00:57 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	36022	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.20	114	62293	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	55250	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	26713	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	35578	92.40	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	184.80%	
35) Dibromofluoromethane	6.91	113	24490	46.68	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	93.36%	
50) Toluene-d8	10.41	98	51395	44.56	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	89.12%	
62) 4-Bromofluorobenzene	13.55	95	26397	50.49	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	100.98%	

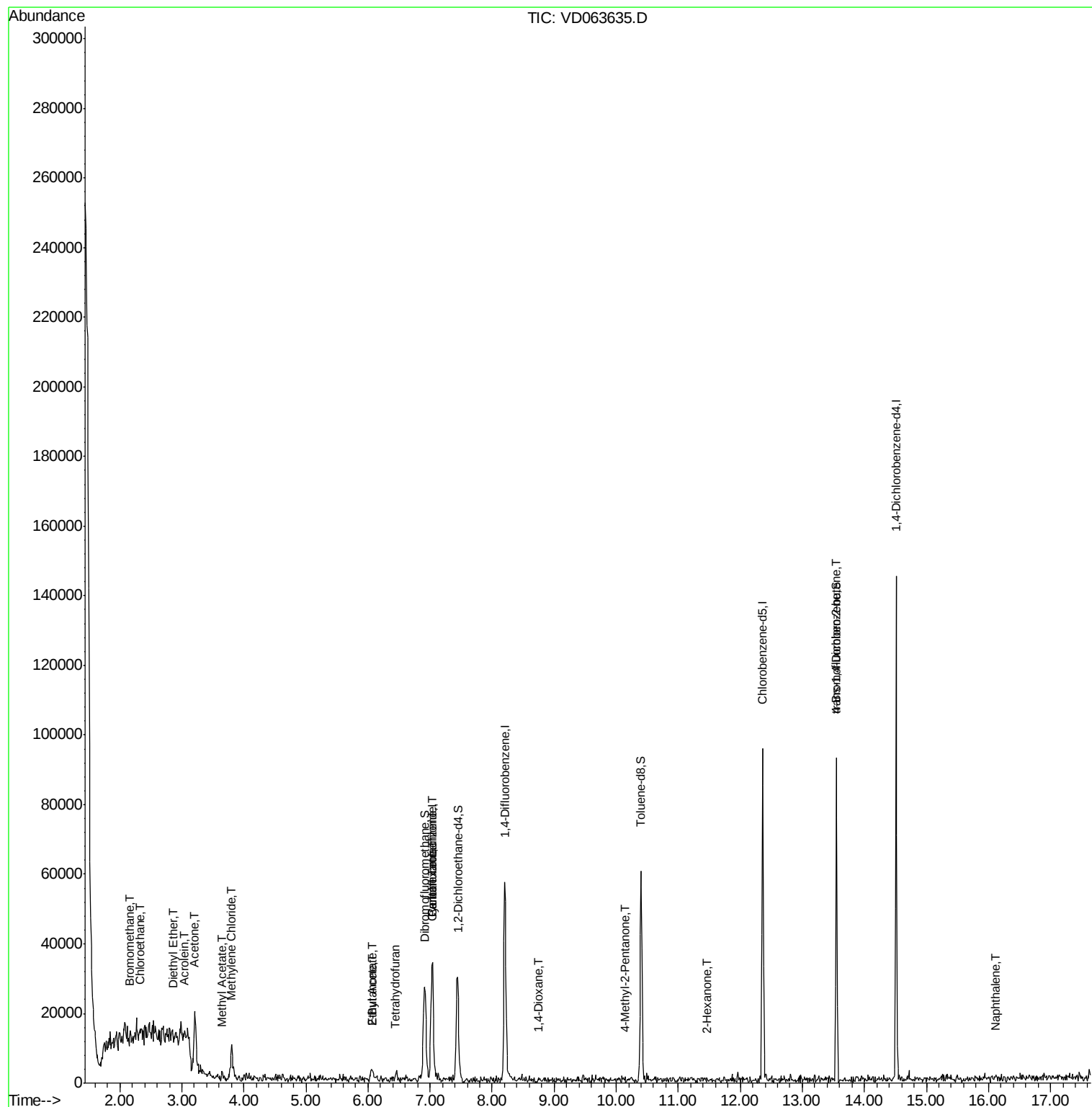
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	2749	17.236	ug/l #	11
6) Chloroethane	2.34	64	431	2.788	ug/l #	1
8) Diethyl Ether	2.87	74	203	2.169	ug/l	62
13) Acrolein	3.03	56	476	28.850	ug/l #	18
16) Acetone	3.21	43	31676	404.688	ug/l	93
18) Methyl Acetate	3.65	43	430	2.900	ug/l #	57
20) Methylene Chloride	3.80	84	3988	11.783	ug/l #	78
25) 2-Butanone	6.08	43	6634	85.816	ug/l #	70
29) Tetrahydrofuran	6.44	42	1267	35.173	ug/l #	54
31) Cyclohexane	7.02	56	444	1.277	ug/l #	13
37) Ethyl Acetate	6.08	43	6634	28.749	ug/l #	73
38) Carbon Tetrachloride	7.04	117	3617	4.358	ug/l #	33
49) 1,4-Dioxane	8.74	88	258	159.177	ug/l #	1
51) 4-Methyl-2-Pentanone	10.14	43	230	1.088	ug/l #	40
59) 2-Hexanone	11.47	43	197	1.280	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.55	75	12686	153.957	ug/l #	1
95) Naphthalene	16.12	128	941	1.184	ug/l #	71

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

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Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.03 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

Instrument :

MSVOA_D

ClientSampleId :

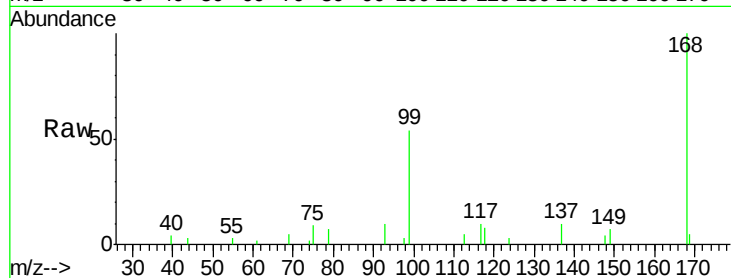
TP-5RE

Tot Ion:168 Resp: 36022

Ion Ratio Lower Upper

168 100

99 53.9 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

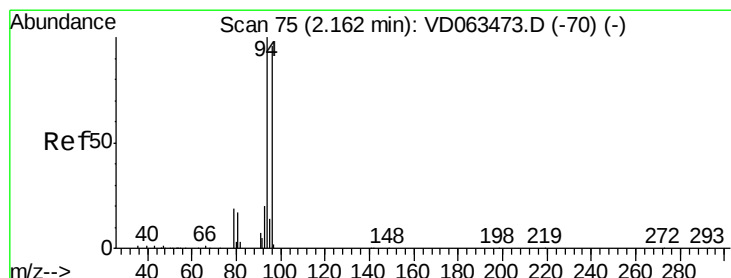
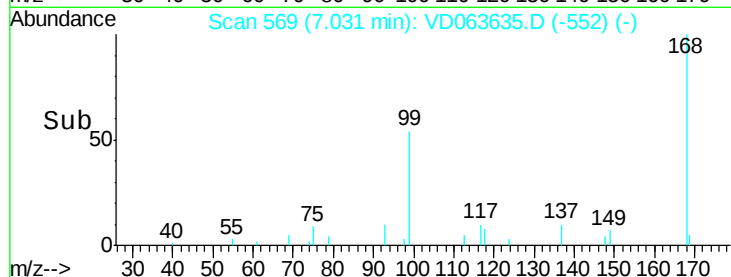
15000

10000

5000

0

Time--> 6.90 7.00 7.10



#5

Bromomethane

Concen: 17.236 ug/l

RT: 2.17 min Scan# 75

Delta R.T. 0.01 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

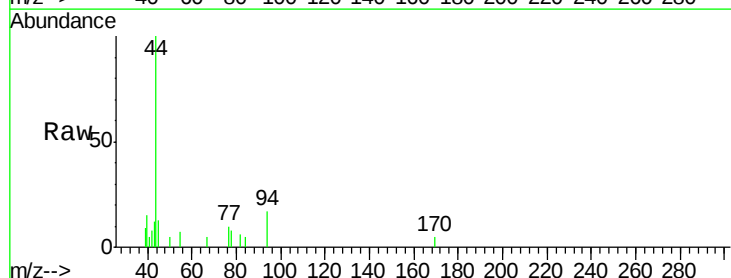
Tgt Ion: 94 Resp: 2749

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

93 0.0 15.8 23.8#



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

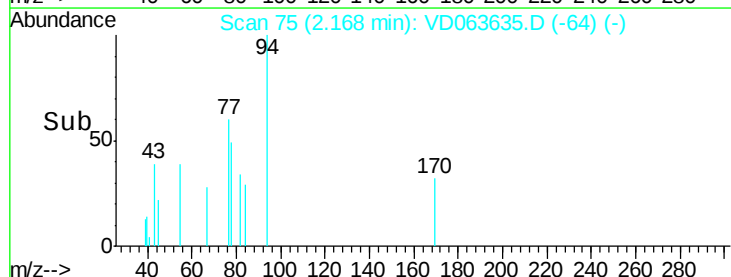
1500

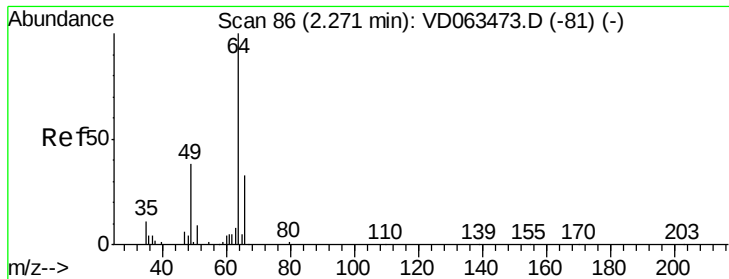
1000

500

0

Time--> 2.10 2.15 2.20





#6

Chloroethane

Concen: 2.788 ug/l

RT: 2.34 min Scan# 92

Delta R.T. 0.06 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

Instrument :

MSVOA_D

ClientSampleId :

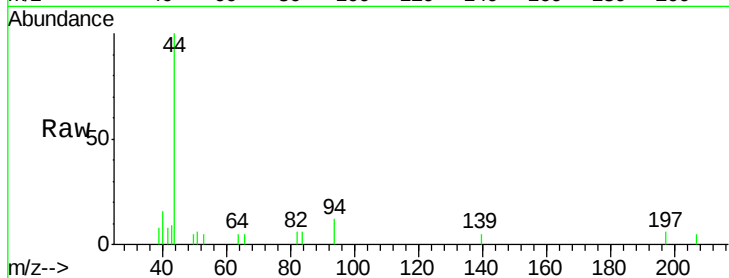
TP-5RE

Tot Ion: 64 Resp: 431

Ion Ratio Lower Upper

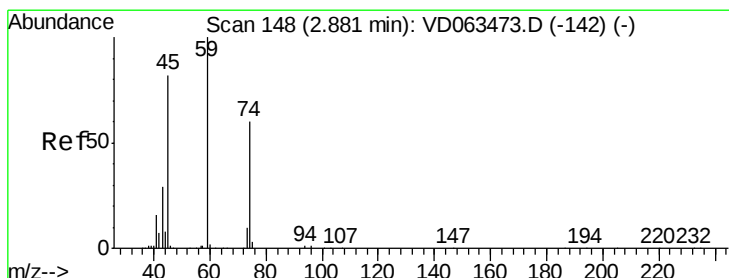
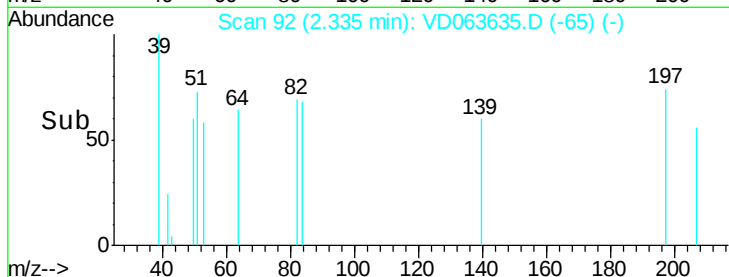
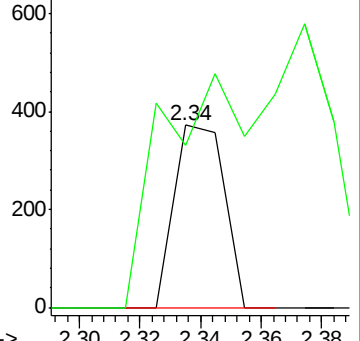
64 100

66 88.7 26.3 39.5#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Diethyl Ether

Concen: 2.169 ug/l

RT: 2.87 min Scan# 146

Delta R.T. -0.01 min

Lab File: VD063635.D

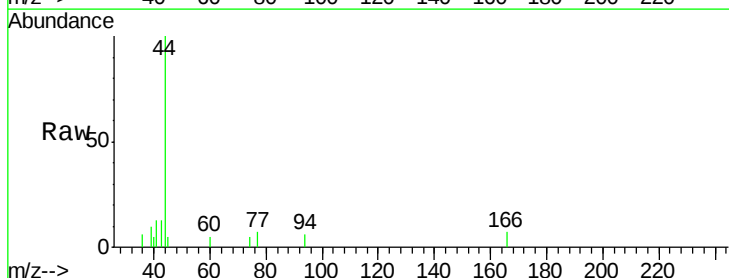
Acq: 16 Aug 2019 13:59

Tgt Ion: 74 Resp: 203

Ion Ratio Lower Upper

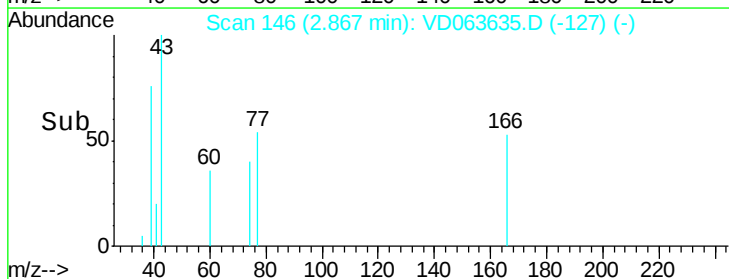
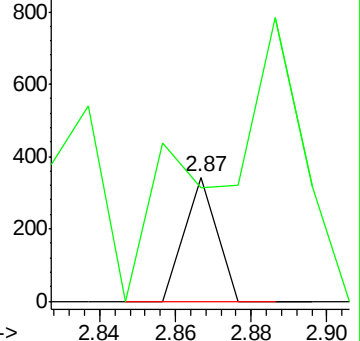
74 100

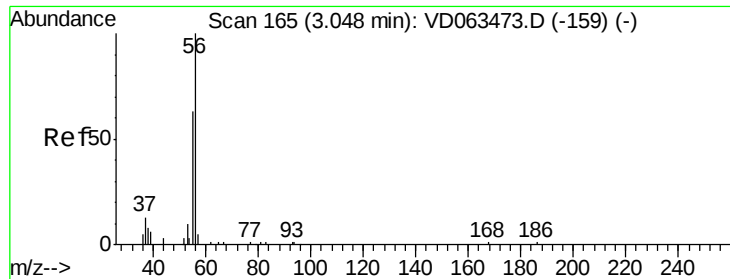
45 91.0 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#13

Acrolein

Concen: 28.850 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.01 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

Instrument :

MSVOA_D

ClientSampleId :

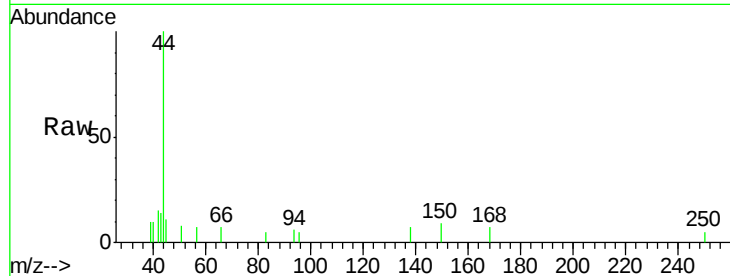
TP-5RE

Tot Ion: 56 Resp: 476

Ion Ratio Lower Upper

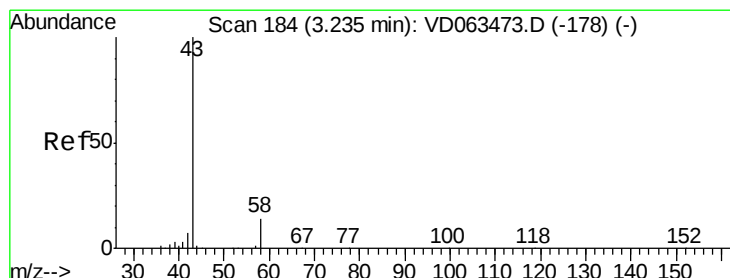
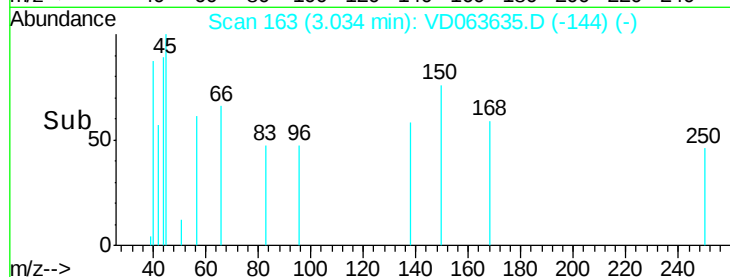
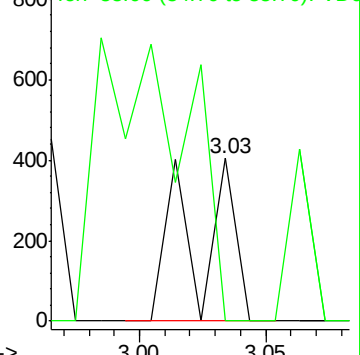
56 100

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



#16

Acetone

Concen: 404.688 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD063635.D

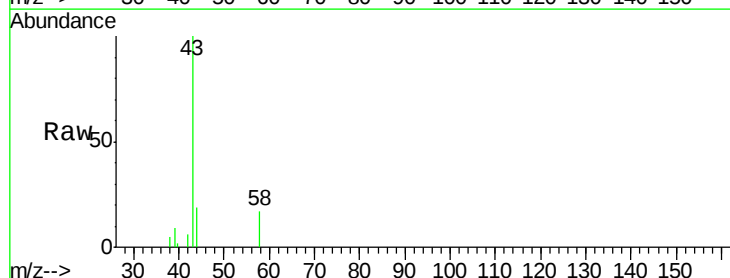
Acq: 16 Aug 2019 13:59

Tgt Ion: 43 Resp: 31676

Ion Ratio Lower Upper

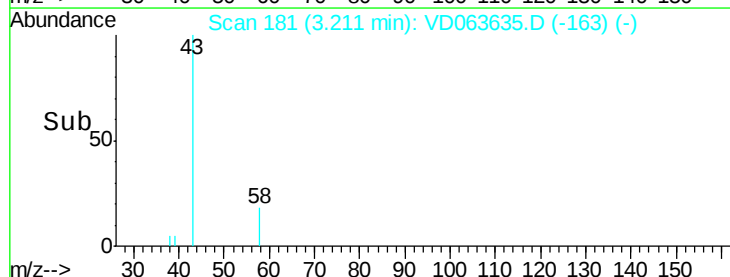
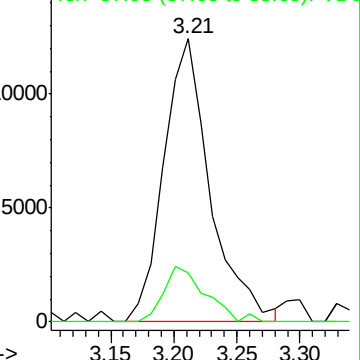
43 100

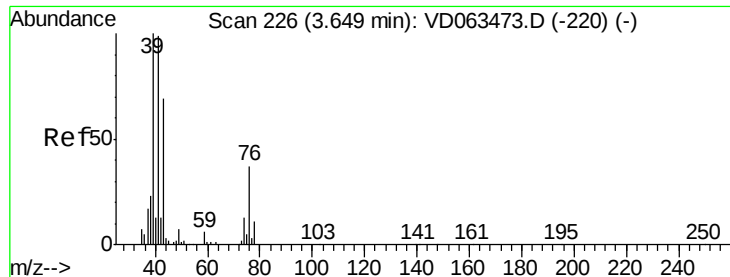
58 17.2 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

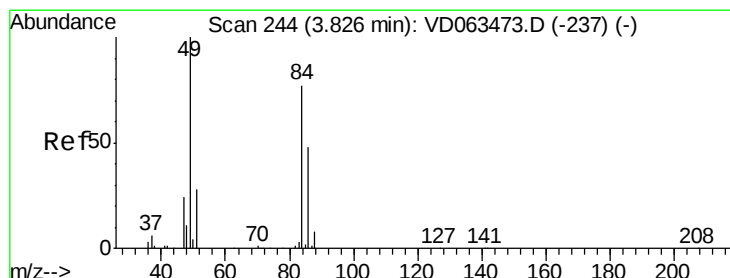
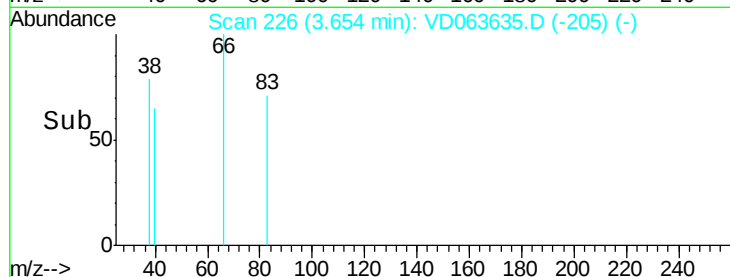
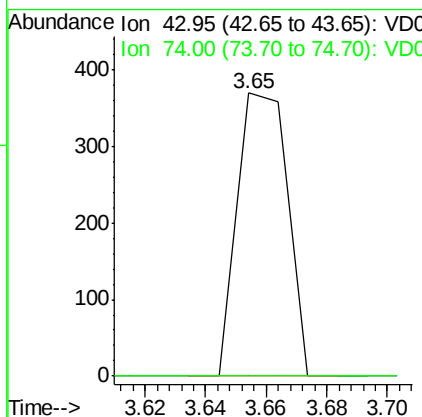
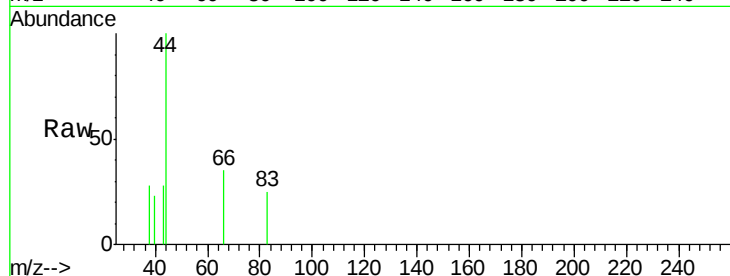




#18
Methyl Acetate
Concen: 2.900 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD063635.D
Acq: 16 Aug 2019 13:59

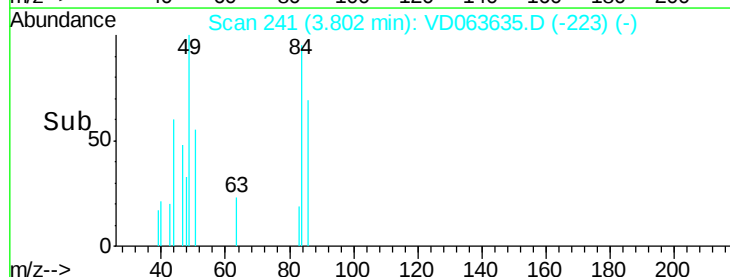
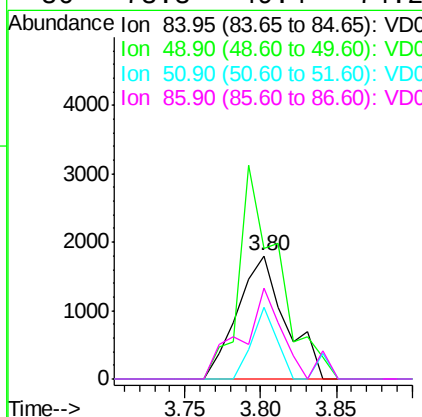
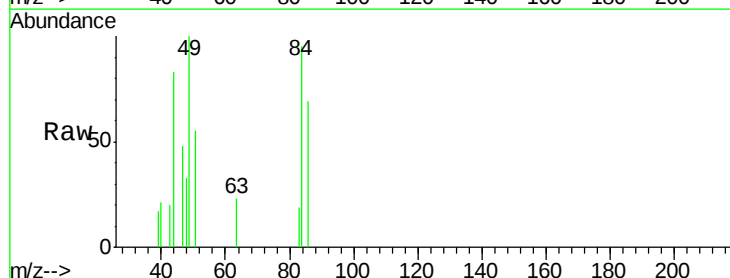
Instrument :
MSVOA_D
ClientSampled :
TP-5RE

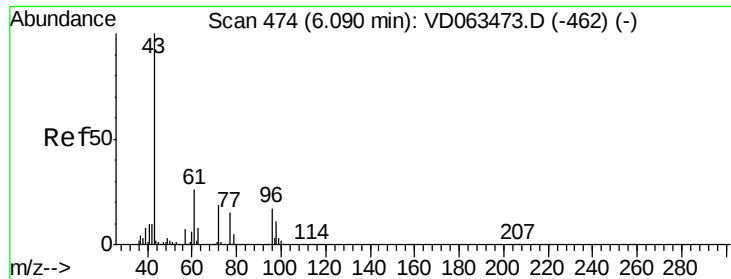
Tot Ion: 43 Resp: 430
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#20
Methylene Chloride
Concen: 11.783 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD063635.D
Acq: 16 Aug 2019 13:59

Tgt Ion: 84 Resp: 3988
Ion Ratio Lower Upper
84 100
49 105.5 103.4 155.2
51 58.0 28.5 42.7#
86 73.3 49.4 74.2





#25

2-Butanone

Concen: 85.816 ug/l

RT: 6.08 min Scan# 472

Delta R.T. -0.01 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

Instrument :

MSVOA_D

ClientSampleId :

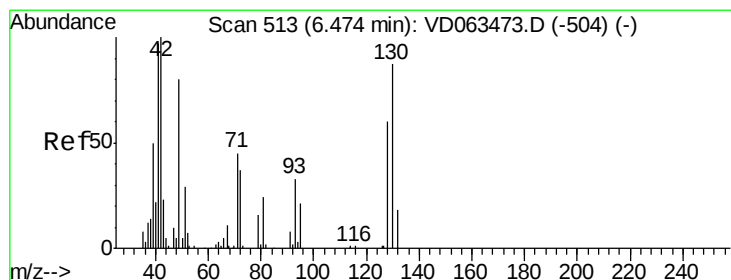
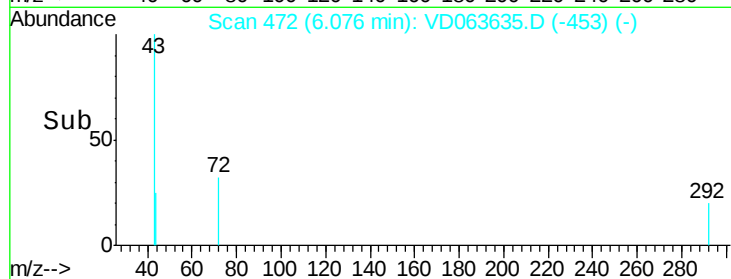
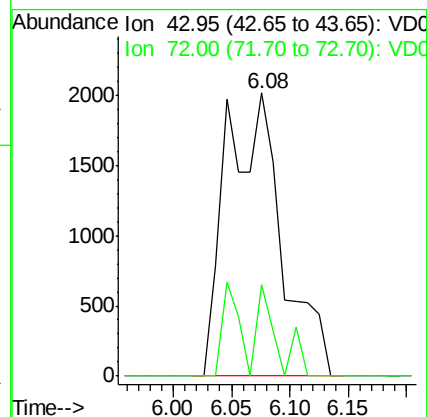
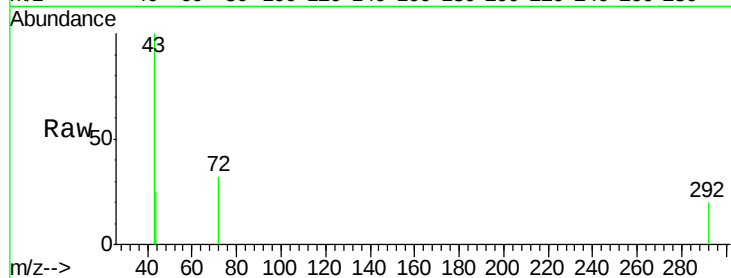
TP-5RE

Tot Ion: 43 Resp: 6634

Ion Ratio Lower Upper

43 100

72 32.4 15.1 22.7#



#29

Tetrahydrofuran

Concen: 35.173 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.03 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

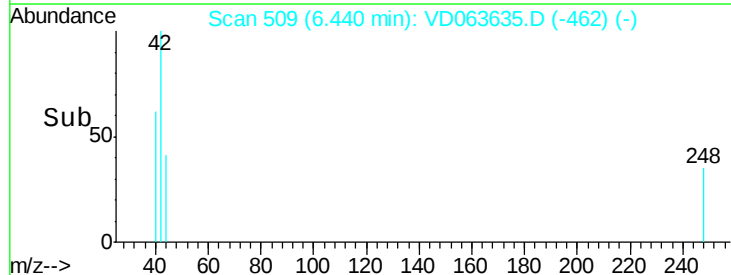
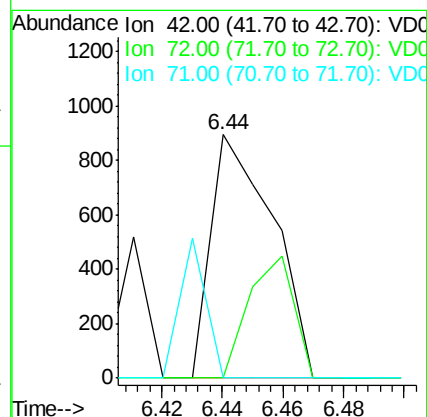
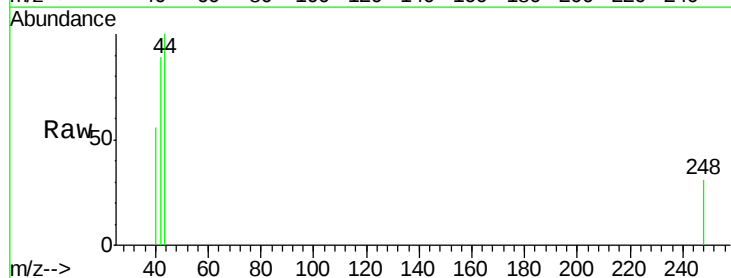
Tgt Ion: 42 Resp: 1267

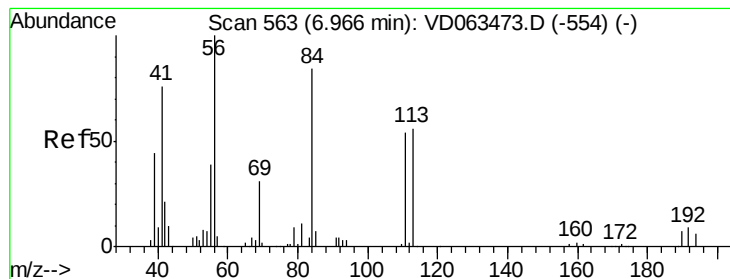
Ion Ratio Lower Upper

42 100

72 0.0 31.5 47.3#

71 24.1 33.8 50.8#





#31

Cyclohexane

Concen: 1.277 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.05 min

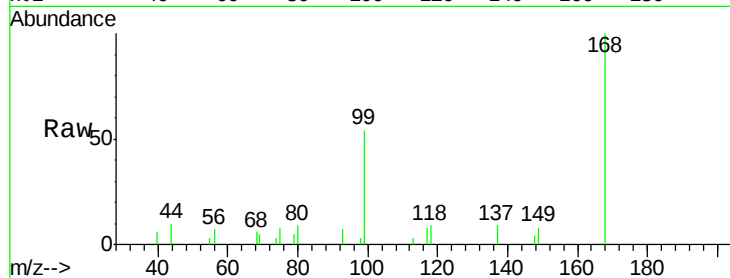
Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

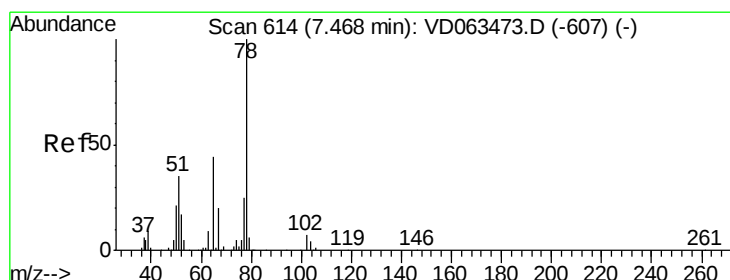
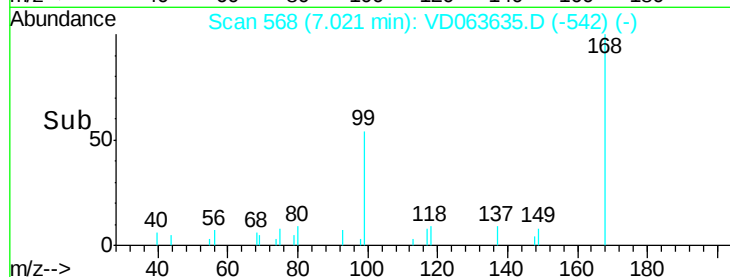
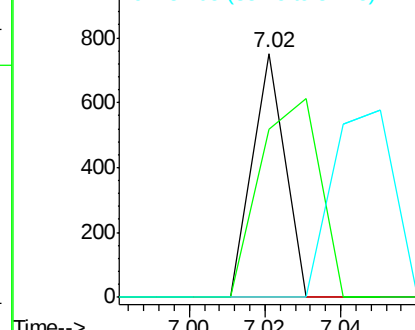
Instrument :
MSVOA_D
ClientSampleId :
TP-5RE

Tot Ion: 56 Resp: 444

Ion	Ratio	Lower	Upper
56	100		
69	68.8	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: 92.399 ug/l

RT: 7.43 min Scan# 610

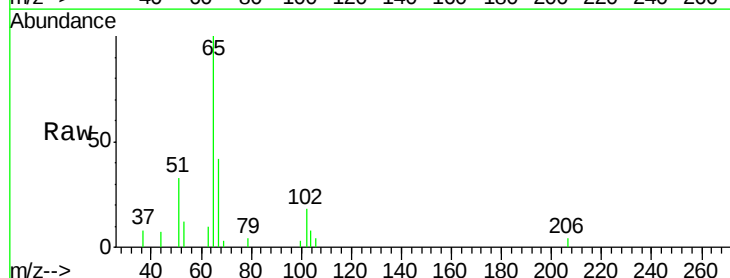
Delta R.T. -0.03 min

Lab File: VD063635.D

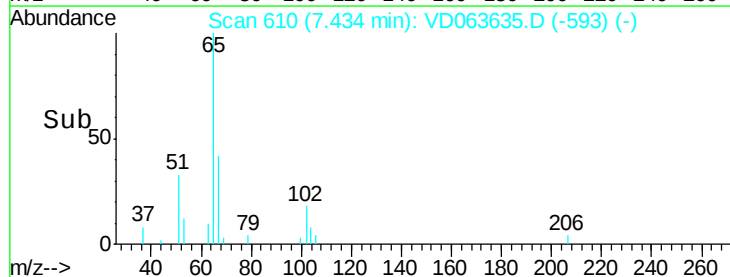
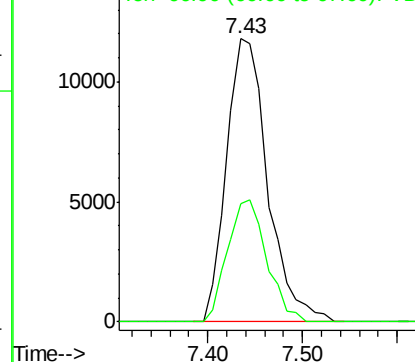
Acq: 16 Aug 2019 13:59

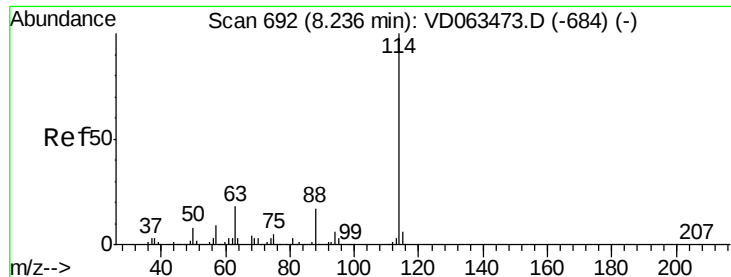
Tgt Ion: 65 Resp: 35578

Ion	Ratio	Lower	Upper
65	100		
67	41.9	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: 8.20 min Scan# 688

Delta R.T. -0.03 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

Instrument :

MSVOA_D

ClientSampleId :

TP-5RE

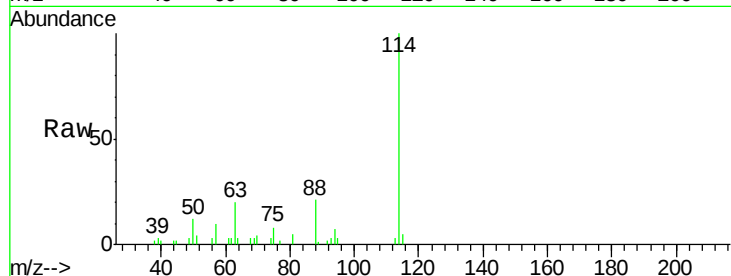
Tot Ion:114 Resp: 62293

Ion Ratio Lower Upper

114 100

63 19.8 0.0 36.2

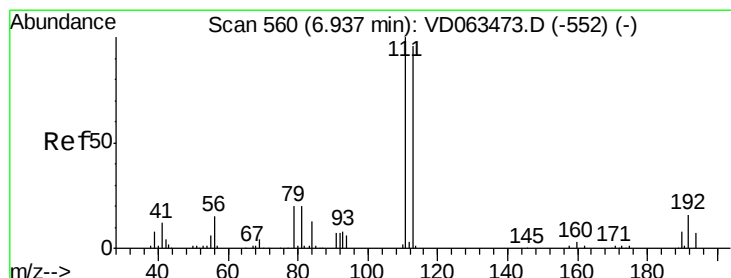
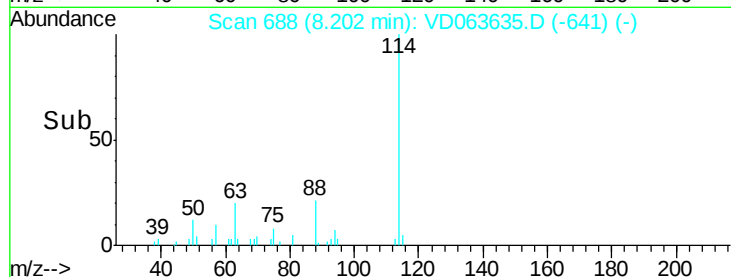
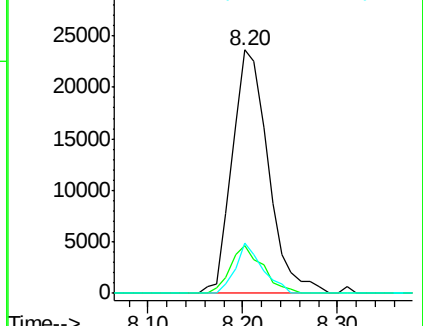
88 20.5 0.0 35.0



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: 46.680 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

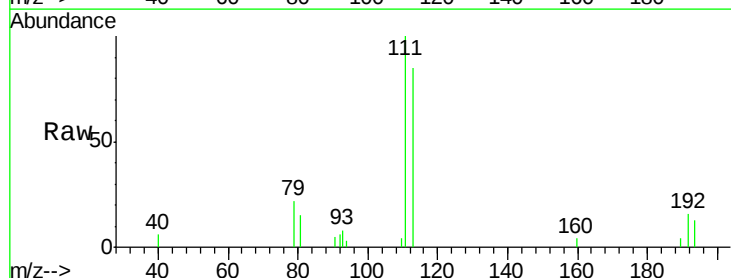
Tgt Ion:113 Resp: 24490

Ion Ratio Lower Upper

113 100

111 117.2 83.1 124.7

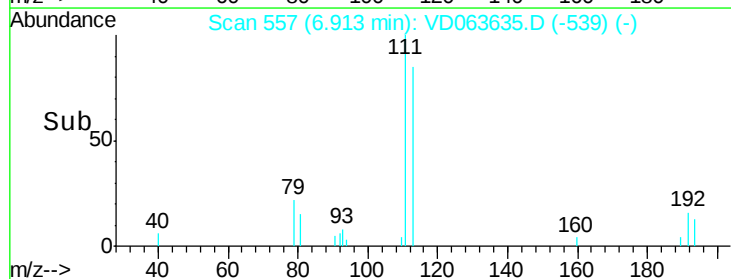
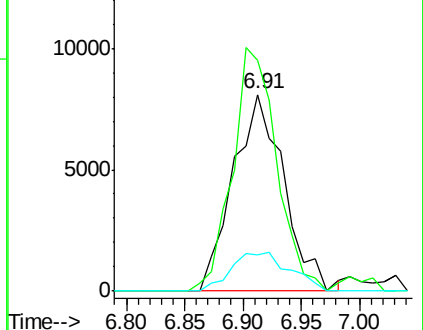
192 18.7 13.1 19.7

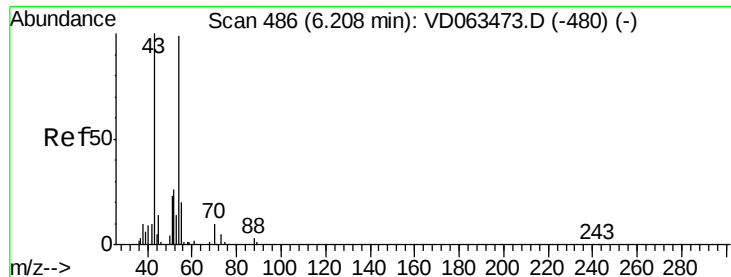


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

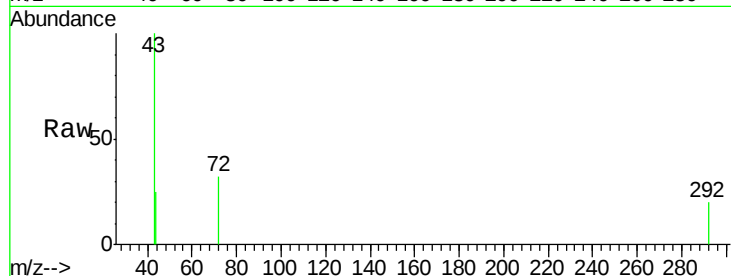




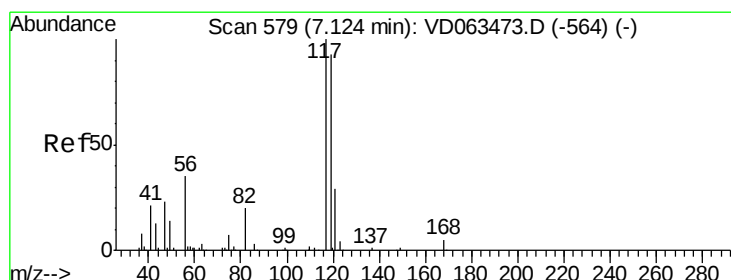
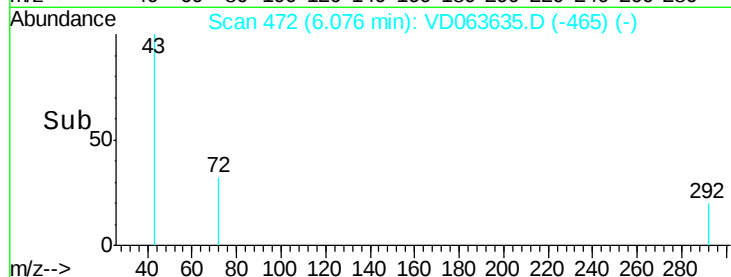
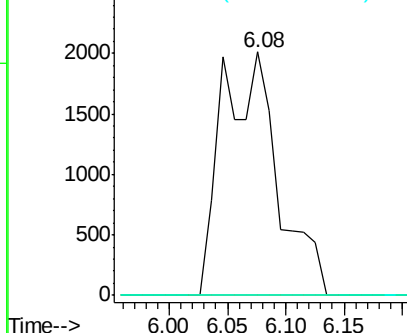
#37
Ethyl Acetate
Concen: 28.749 ug/l
RT: 6.08 min Scan# 472
Delta R.T. -0.13 min
Lab File: VD063635.D
Acq: 16 Aug 2019 13:59

Instrument :
MSVOA_D
ClientSampled :
TP-5RE

Tot Ion: 43 Resp: 6634
Ion Ratio Lower Upper
43 100
61 0.0 9.0 13.6#
70 0.0 6.9 10.3#

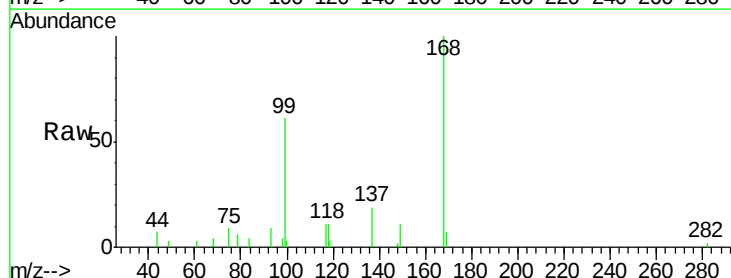


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

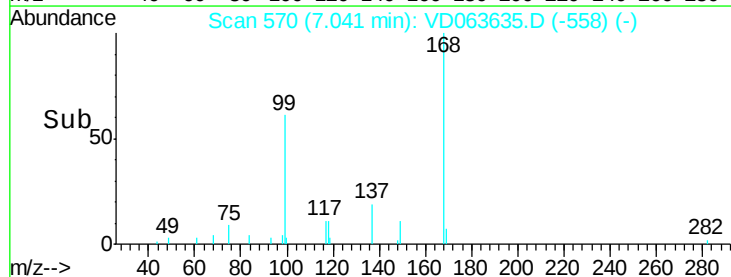
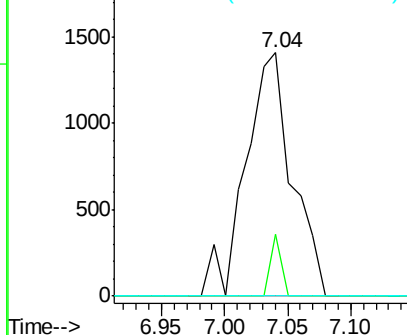


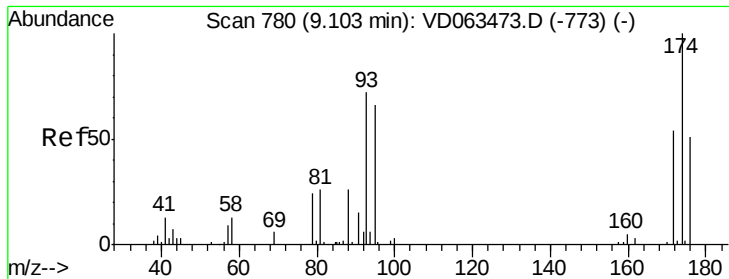
#38
Carbon Tetrachloride
Concen: 4.358 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.08 min
Lab File: VD063635.D
Acq: 16 Aug 2019 13:59

Tgt Ion: 117 Resp: 3617
Ion Ratio Lower Upper
117 100
119 25.2 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

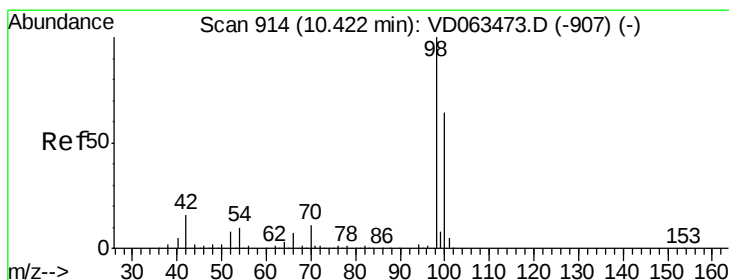
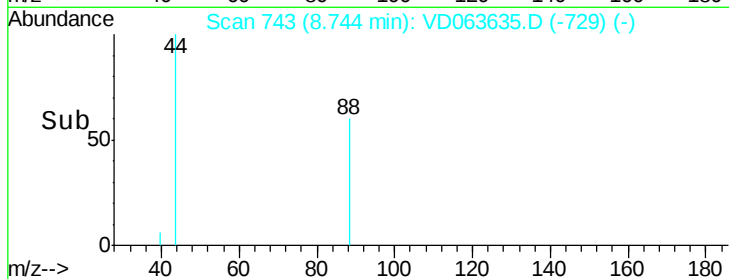
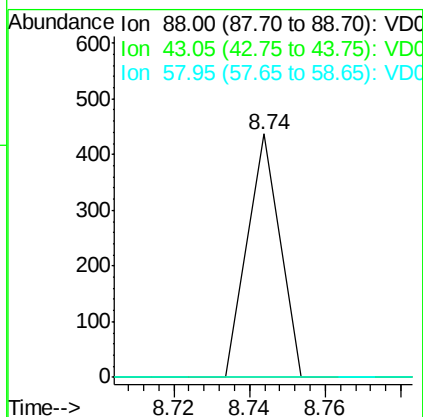
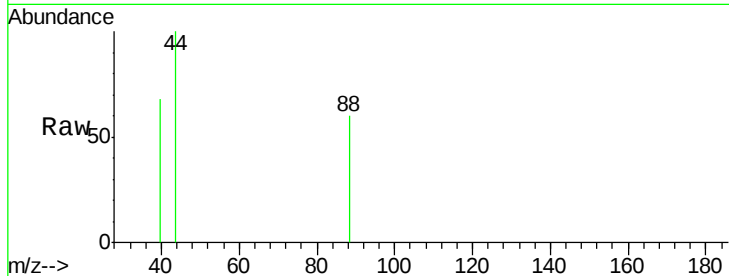




#49
 1,4-Dioxane
 Concen: 159.177 ug/l
 RT: 8.74 min Scan# 743
 Delta R.T. -0.36 min
 Lab File: VD063635.D
 Acq: 16 Aug 2019 13:59

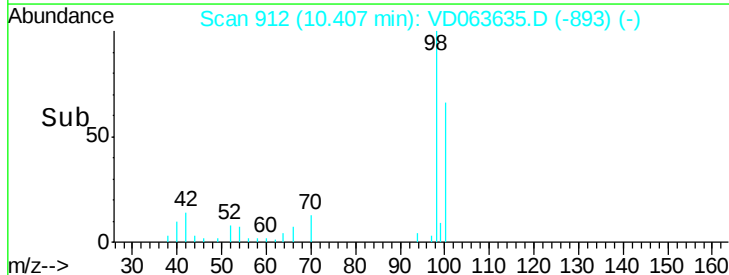
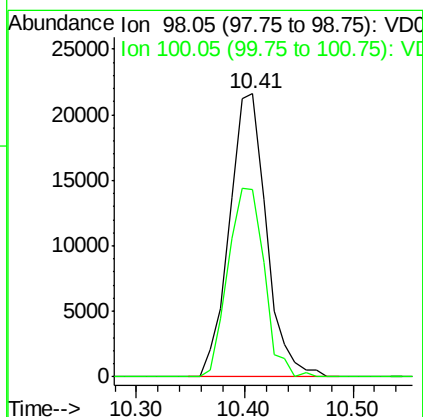
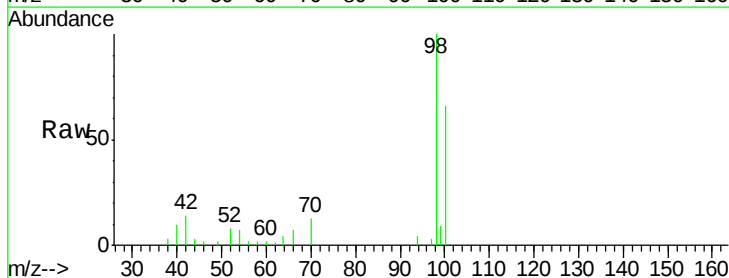
Instrument :
 MSVOA_D
 ClientSampled :
 TP-5RE

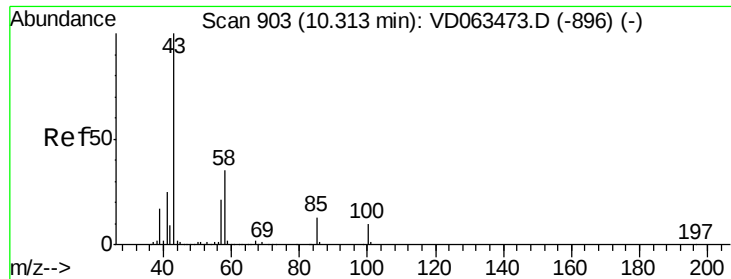
Tot Ion: 88 Resp: 258
 Ion Ratio Lower Upper
 88 100
 43 168.0 22.9 34.3#
 58 0.0 40.1 60.1#



#50
 Toluene-d8
 Concen: 44.558 ug/l
 RT: 10.41 min Scan# 912
 Delta R.T. -0.01 min
 Lab File: VD063635.D
 Acq: 16 Aug 2019 13:59

Tgt Ion: 98 Resp: 51395
 Ion Ratio Lower Upper
 98 100
 100 66.4 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.088 ug/l

RT: 10.14 min Scan# 885

Delta R.T. -0.17 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

Instrument :

MSVOA_D

ClientSampleId :

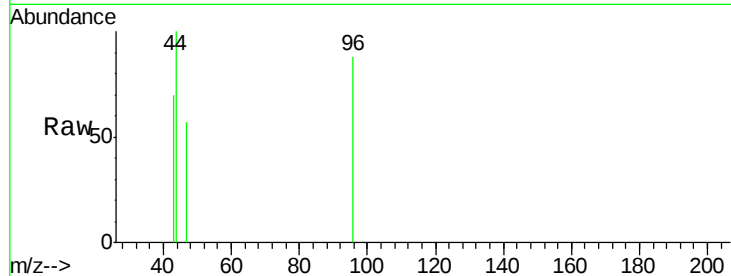
TP-5RE

Tot Ion: 43 Resp: 230

Ion Ratio Lower Upper

43 100

58 0.0 28.0 42.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.14

400

300

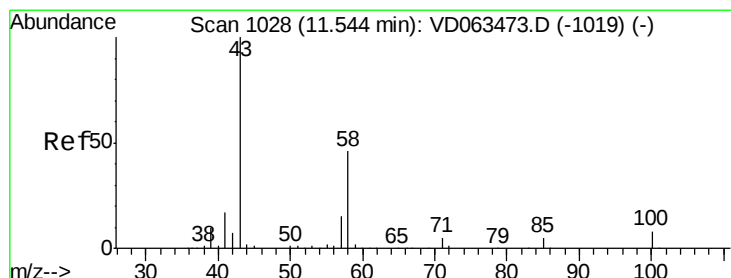
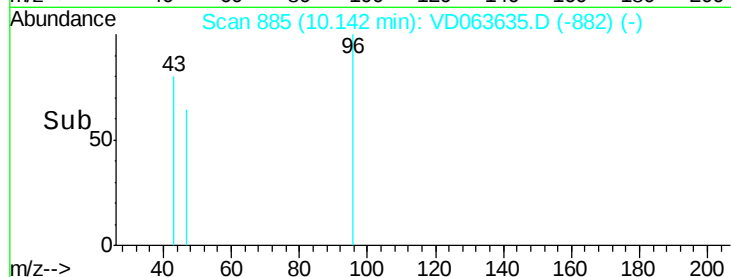
200

100

0

10.12 10.14 10.16

Time-->



#59

2-Hexanone

Concen: 1.280 ug/l

RT: 11.47 min Scan# 1020

Delta R.T. -0.07 min

Lab File: VD063635.D

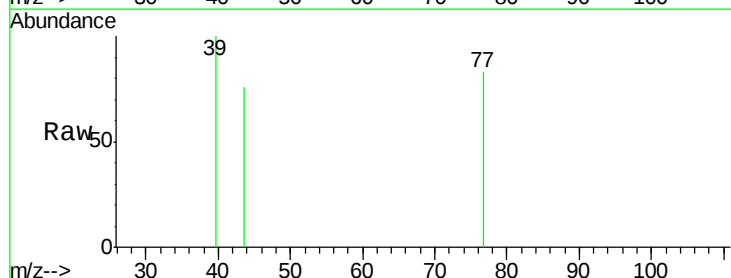
Acq: 16 Aug 2019 13:59

Tgt Ion: 43 Resp: 197

Ion Ratio Lower Upper

43 100

58 0.0 23.1 69.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

11.47

500

400

300

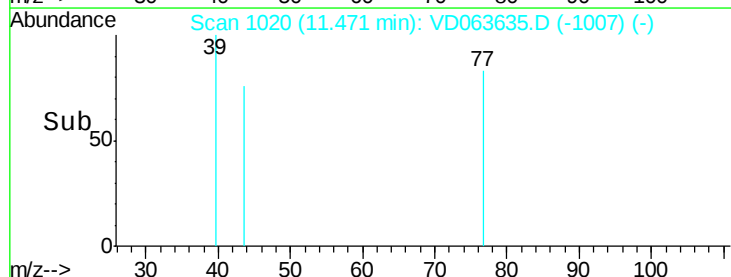
200

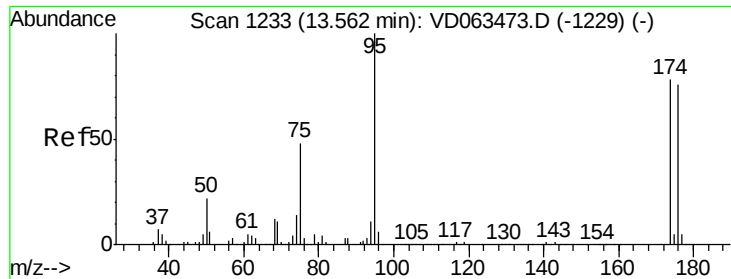
100

0

11.46 11.48

Time-->

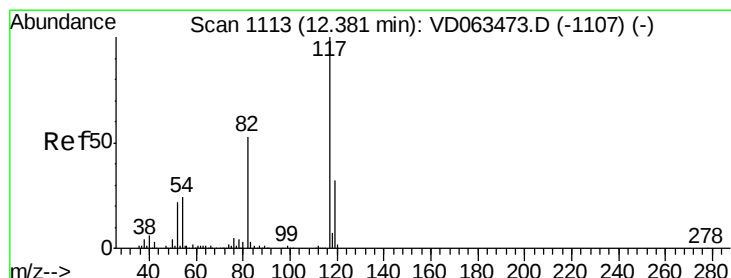
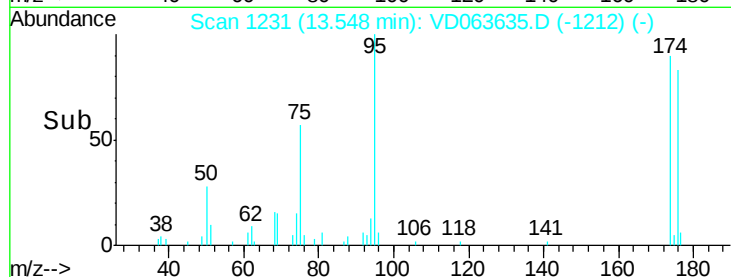
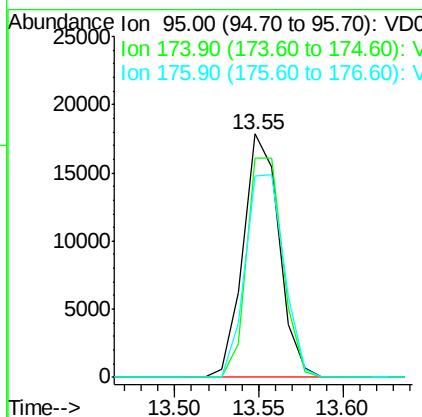
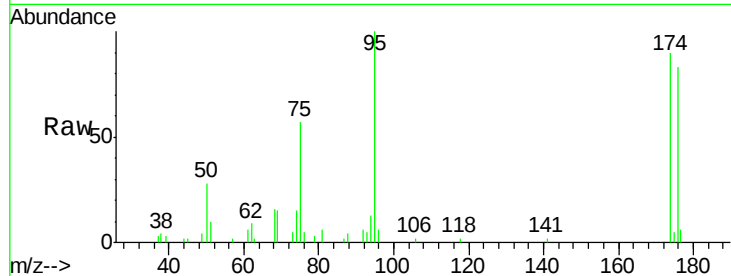




#62
4-Bromofluorobenzene
Concen: 50.493 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD063635.D
Acq: 16 Aug 2019 13:59

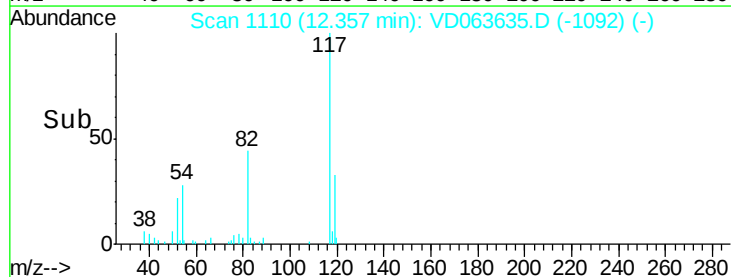
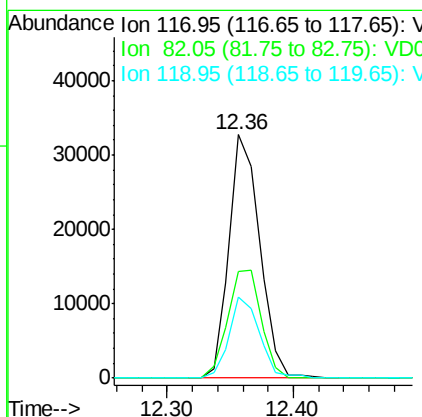
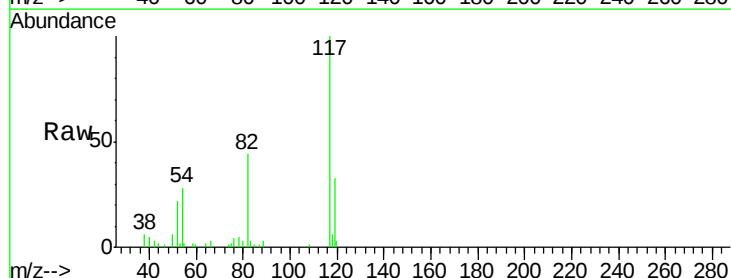
Instrument :
MSVOA_D
ClientSampleId :
TP-5RE

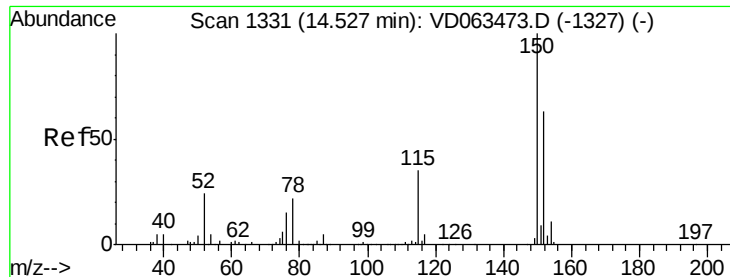
Tot Ion: 95 Resp: 26397
Ion Ratio Lower Upper
95 100
174 90.1 0.0 155.4
176 82.7 0.0 152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1110
Delta R.T. -0.02 min
Lab File: VD063635.D
Acq: 16 Aug 2019 13:59

Tgt Ion: 117 Resp: 55250
Ion Ratio Lower Upper
117 100
82 43.8 42.0 63.0
119 33.1 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

Instrument :

MSVOA_D

ClientSampleId :

TP-5RE

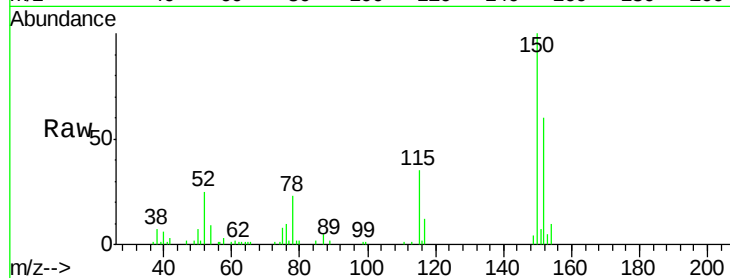
Tot Ion:152 Resp: 26713

Ion Ratio Lower Upper

152 100

115 59.2 30.9 92.7

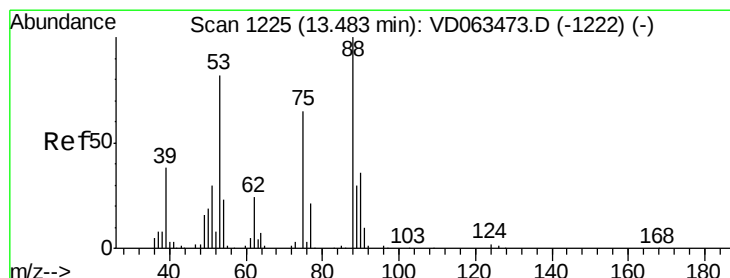
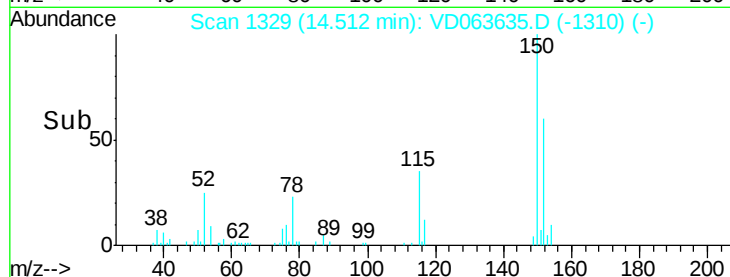
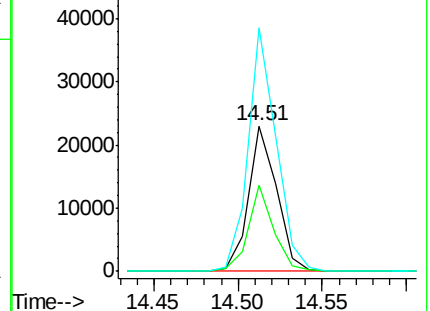
150 167.8 0.0 318.6



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: 153.957 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

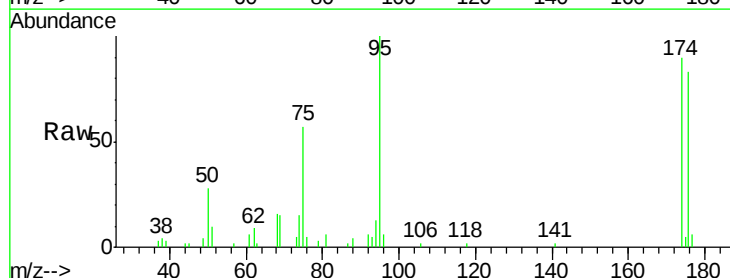
Tgt Ion: 75 Resp: 12686

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

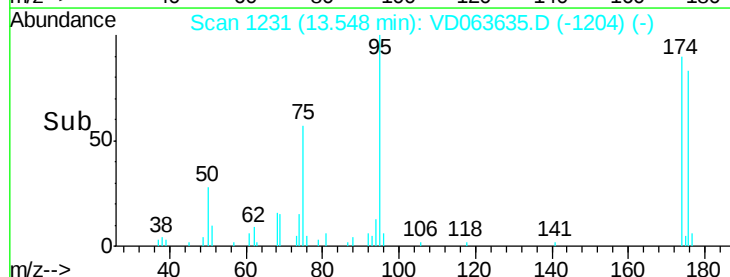
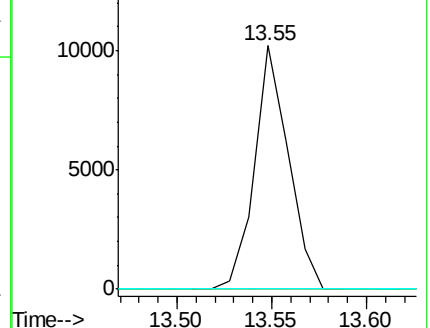
89 0.0 37.0 55.6#

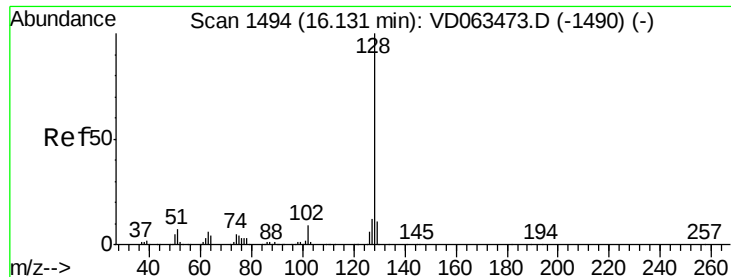


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 1.184 ug/l

RT: 16.12 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VD063635.D

Acq: 16 Aug 2019 13:59

Instrument :

MSVOA_D

ClientSampleId :

TP-5RE

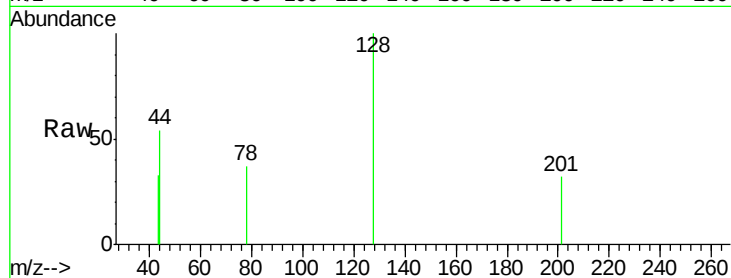
Tot Ion:128 Resp: 941

Ion Ratio Lower Upper

128 100

127 0.0 9.4 14.0#

129 0.0 8.5 12.7#



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

