

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081420\
 Data File : VD066229.D
 Acq On : 14 Aug 2020 11:39
 Operator : VA/SY
 Sample : VD0814SBL01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0814SBL01

Quant Time: Aug 17 08:40:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:49:25 2020
 Response via : Initial Calibration

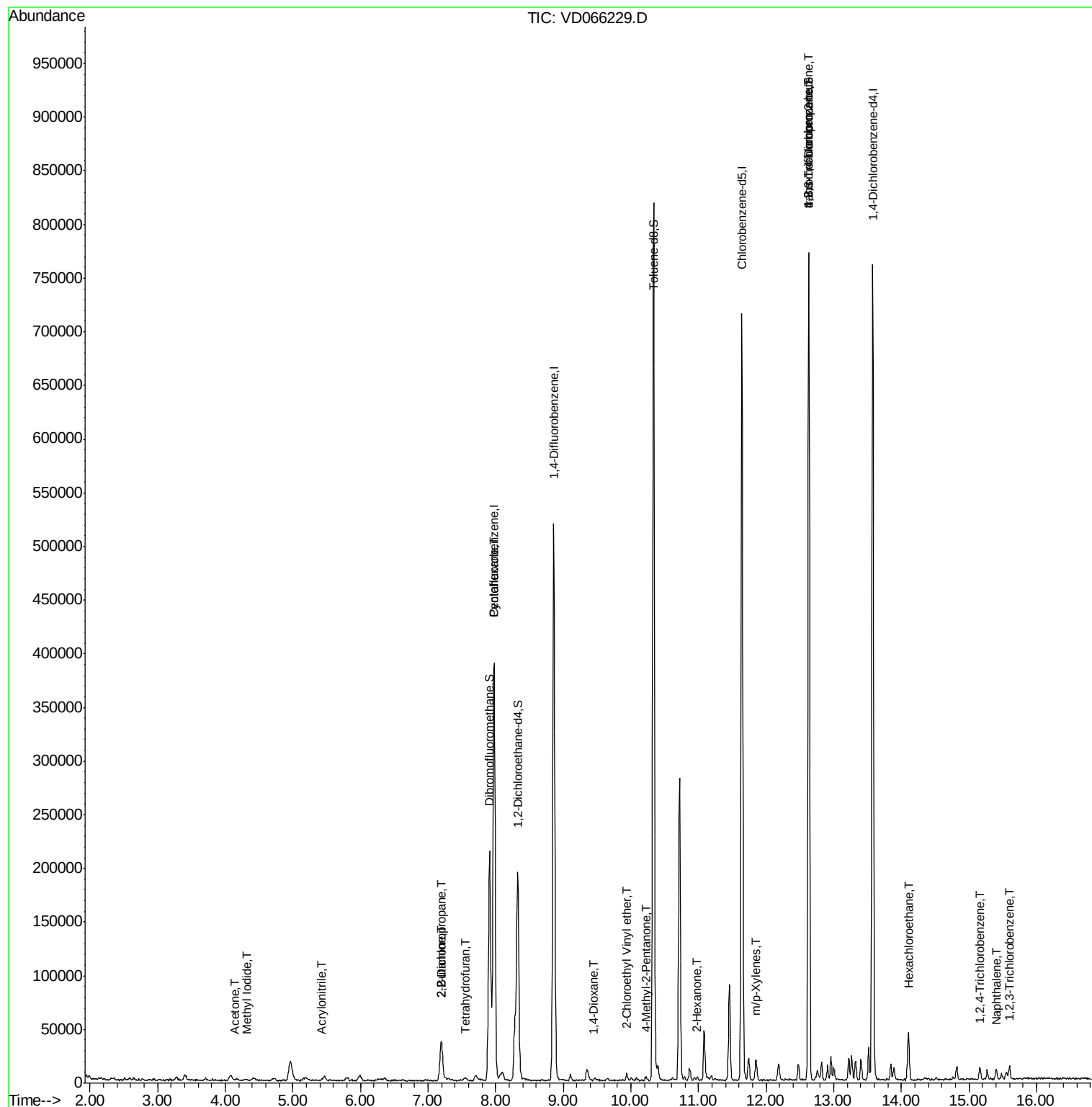
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	306441	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	454980	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	421362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	210038	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	148322	54.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.50%	
35) Dibromofluoromethane	7.91	113	152806	53.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.04%	
50) Toluene-d8	10.34	98	559001	52.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.12%	
62) 4-Bromofluorobenzene	12.63	95	196616	51.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.56%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.31	142	1559	7.227	ug/l #	67
11) Tert butyl alcohol	5.18	59	2869	Below Cal	#	76
15) Acrylonitrile	5.43	53	1006	1.745	ug/l #	80
16) Acetone	4.15	43	1022	1.970	ug/l #	71
25) 2-Butanone	7.20	43	1883	2.468	ug/l	98
26) 2,2-Dichloropropane	7.20	77	4593	1.018	ug/l #	55
29) Tetrahydrofuran	7.56	42	1523	3.222	ug/l #	57
31) Cyclohexane	7.98	56	8608	1.797	ug/l #	24
49) 1,4-Dioxane	9.46	88	312	15.199	ug/l #	38
51) 4-Methyl-2-Pentanone	10.22	43	2705	1.578	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.94	63	2422	1.948	ug/l	94
59) 2-Hexanone	10.98	43	2117	1.759	ug/l	77
68) m/p-Xylenes	11.85	106	6441	1.122	ug/l	90
76) 1,2,3-Trichloropropane	12.63	75	97957	55.925	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	97957	123.626	ug/l #	13
90) Hexachloroethane	14.11	117	2694	1.034	ug/l	99
93) 1,2,4-Trichlorobenzene	15.16	180	4589	1.038	ug/l	98
95) Naphthalene	15.40	128	8712	1.209	ug/l	97
96) 1,2,3-Trichlorobenzene	15.60	180	4657	1.193	ug/l	94

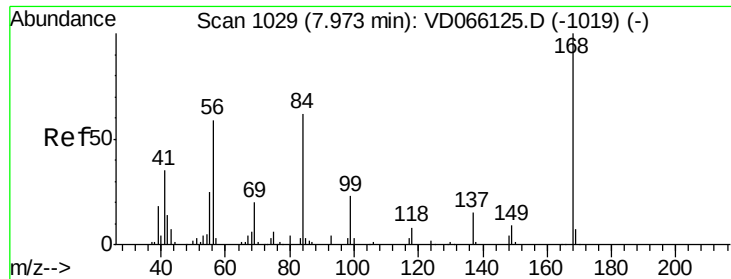
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VD066229.D

Acq: 14 Aug 2020 11:39

Instrument :

MSVOA_D

ClientSampleId :

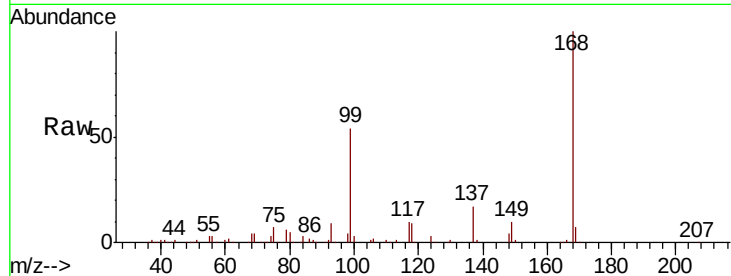
VD0814SBL01

Tot Ion:168 Resp: 306441

Ion Ratio Lower Upper

168 100

99 53.8 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

150000

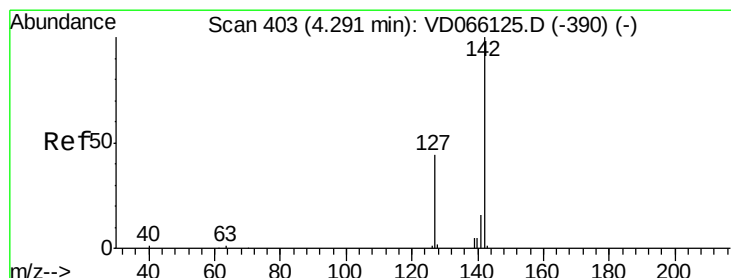
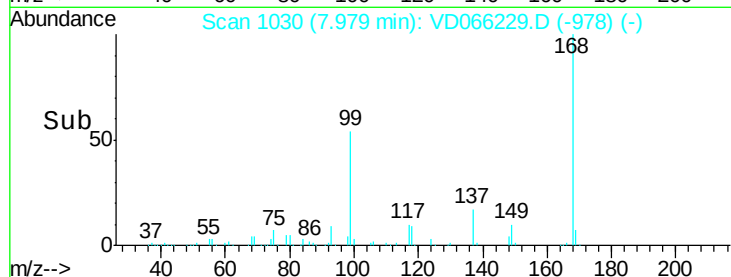
100000

50000

0

7.90 8.00 8.10

Time-->



#10

Methyl Iodide

Concen: 7.227 ug/l

RT: 4.31 min Scan# 406

Delta R.T. 0.02 min

Lab File: VD066229.D

Acq: 14 Aug 2020 11:39

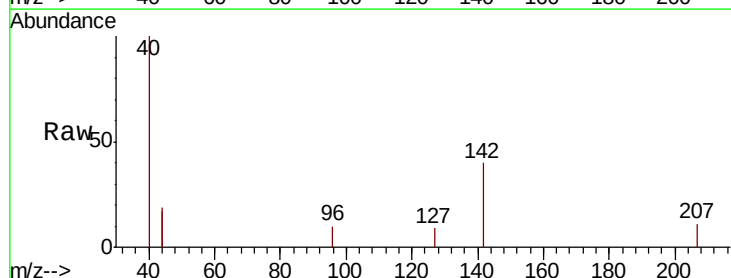
Tgt Ion:142 Resp: 1559

Ion Ratio Lower Upper

142 100

127 19.4 36.2 54.4#

141 9.1 12.6 18.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.31

800

600

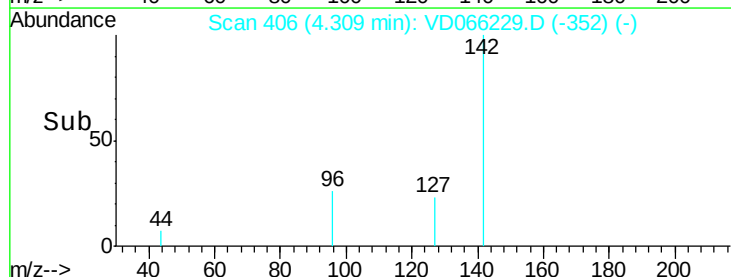
400

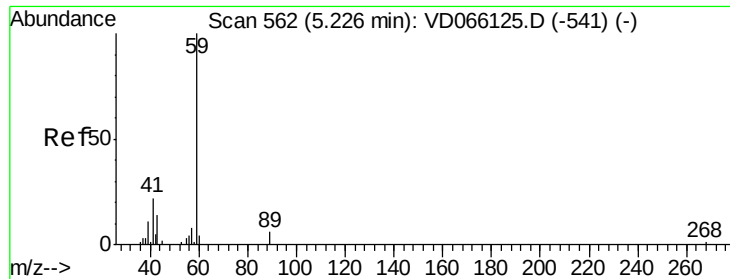
200

0

4.25 4.30 4.35

Time-->

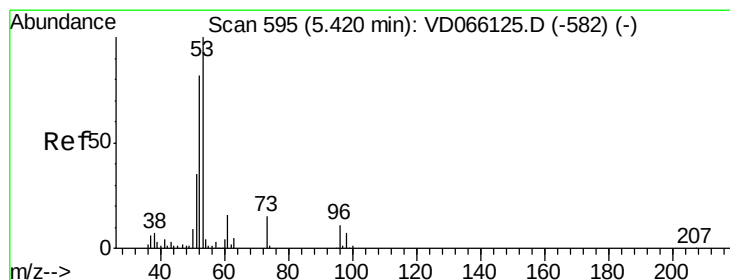
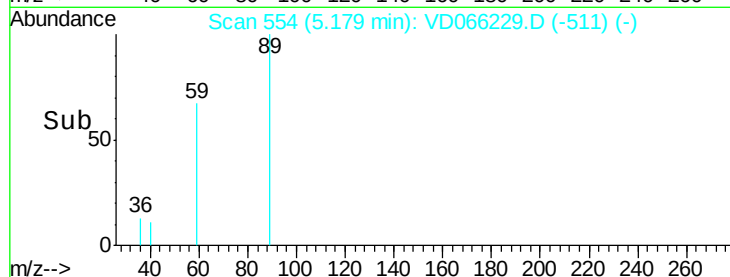
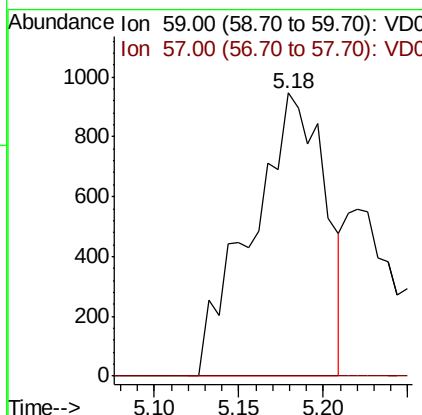
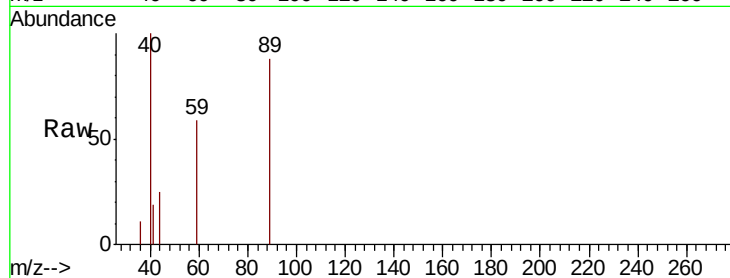




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.18 min Scan# 554
Delta R.T. -0.05 min
Lab File: VD066229.D
Acq: 14 Aug 2020 11:39

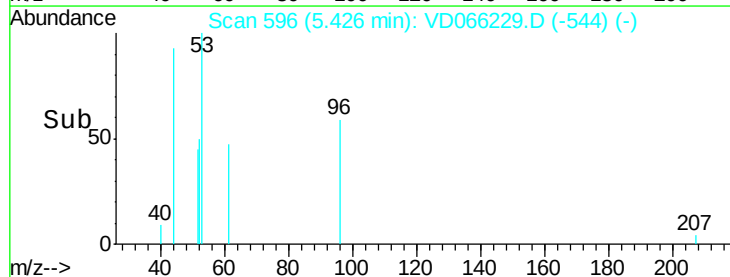
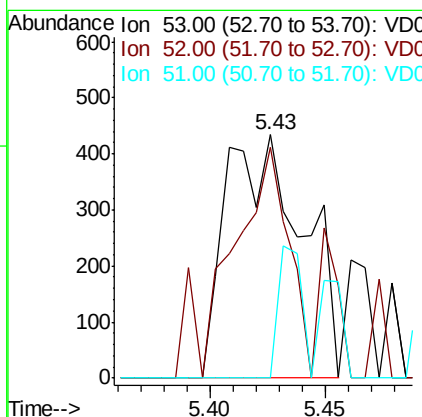
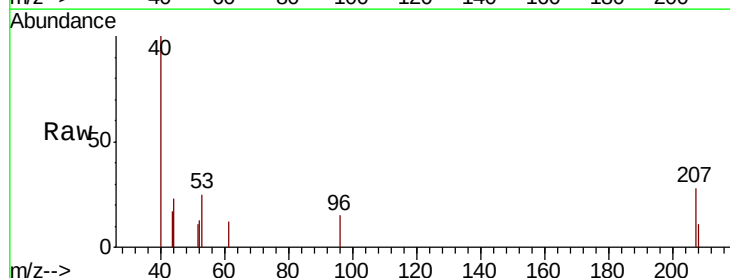
Instrument :
MSVOA_D
ClientSampleId :
VD0814SBL01

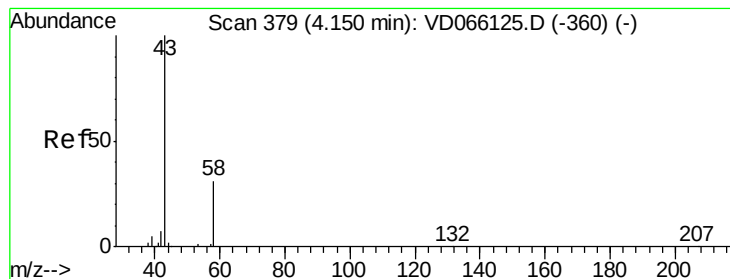
Tot Ion: 59 Resp: 2869
Ion Ratio Lower Upper
59 100
57 0.0 7.0 10.4#



#15
Acrylonitrile
Concen: 1.745 ug/l
RT: 5.43 min Scan# 596
Delta R.T. 0.01 min
Lab File: VD066229.D
Acq: 14 Aug 2020 11:39

Tgt Ion: 53 Resp: 1006
Ion Ratio Lower Upper
53 100
52 72.3 66.1 99.1
51 16.1 30.8 46.2#





#16

Acetone

Concen: 1.970 ug/l

RT: 4.15 min Scan# 379

Delta R.T. 0.00 min

Lab File: VD066229.D

Acq: 14 Aug 2020 11:39

Instrument :

MSVOA_D

ClientSampleId :

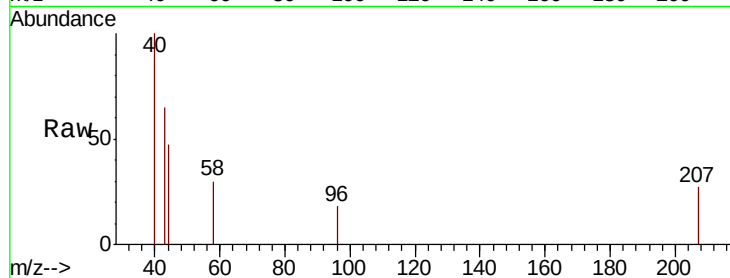
VD0814SBL01

Tot Ion: 43 Resp: 1022

Ion Ratio Lower Upper

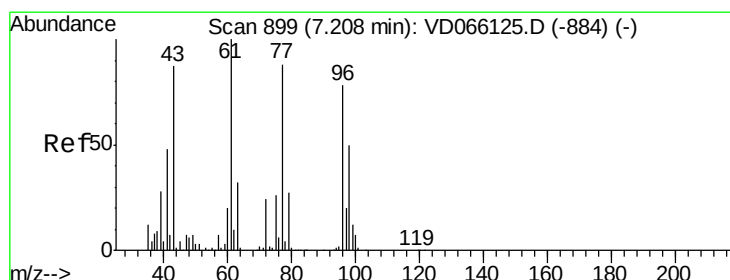
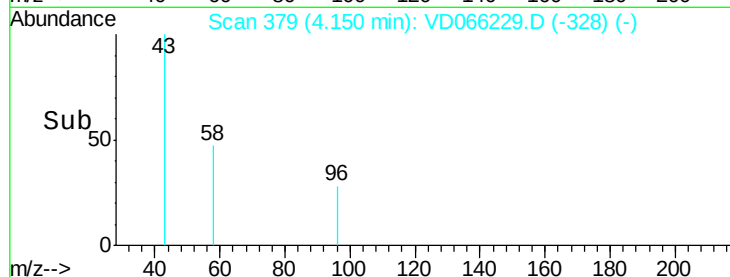
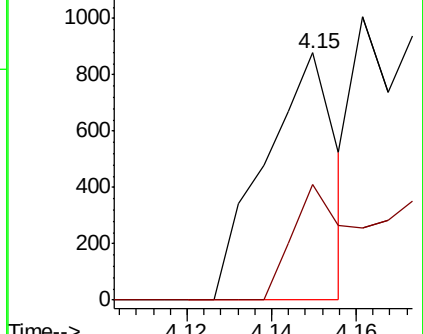
43 100

58 47.0 24.7 37.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#25

2-Butanone

Concen: 2.468 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD066229.D

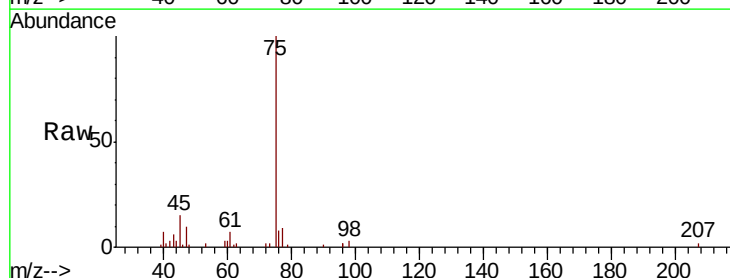
Acq: 14 Aug 2020 11:39

Tgt Ion: 43 Resp: 1883

Ion Ratio Lower Upper

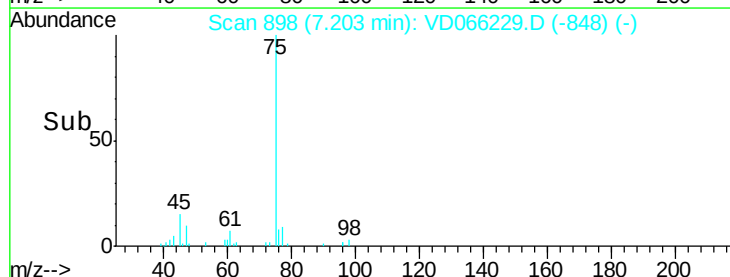
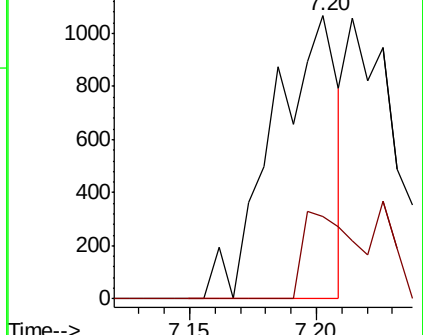
43 100

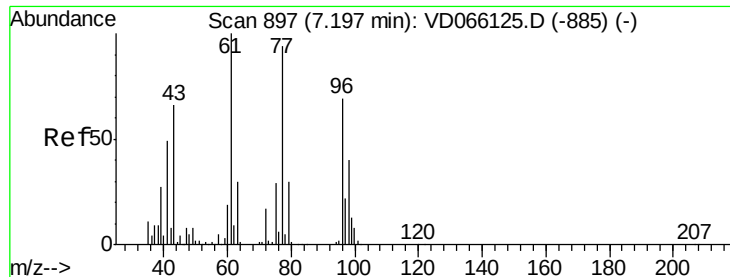
72 29.0 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

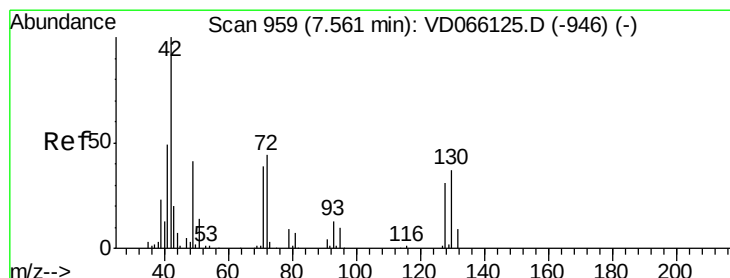
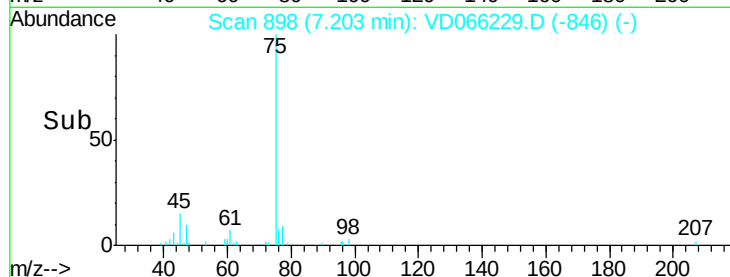
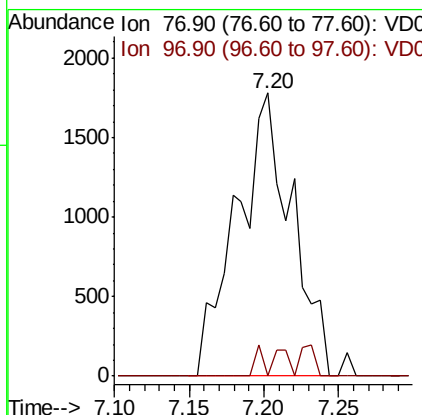
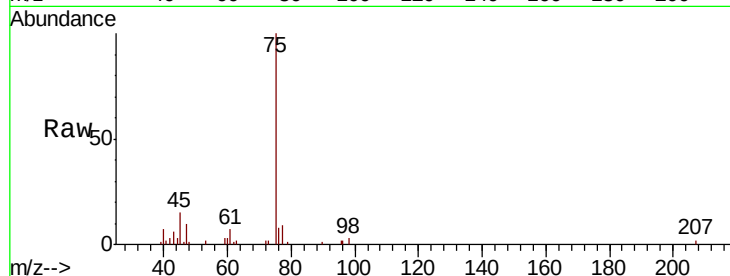




#26
 2,2-Dichloropropane
 Concen: 1.018 ug/l
 RT: 7.20 min Scan# 898
 Delta R.T. 0.01 min
 Lab File: VD066229.D
 Acq: 14 Aug 2020 11:39

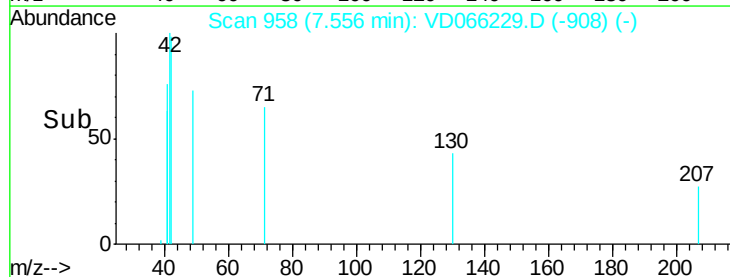
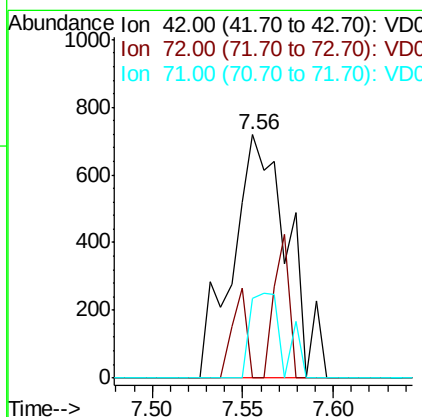
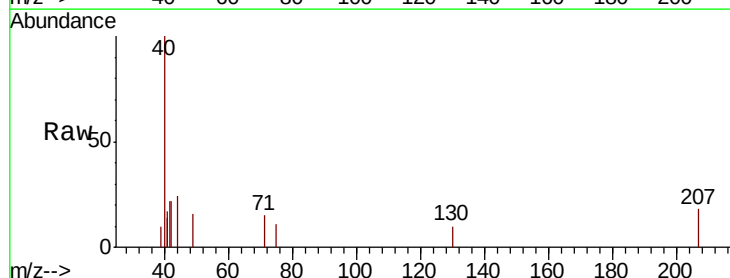
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0814SBL01

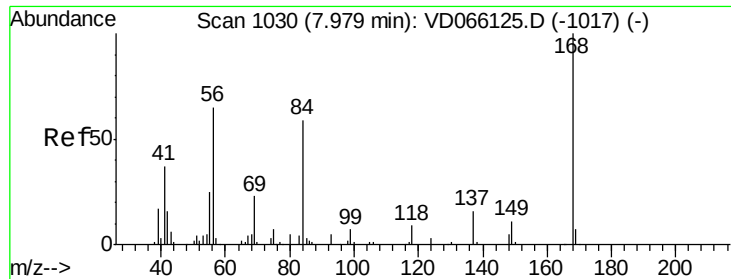
Tot Ion: 77 Resp: 4593
 Ion Ratio Lower Upper
 77 100
 97 1.5 11.8 35.3#



#29
 Tetrahydrofuran
 Concen: 3.222 ug/l
 RT: 7.56 min Scan# 958
 Delta R.T. -0.01 min
 Lab File: VD066229.D
 Acq: 14 Aug 2020 11:39

Tgt Ion: 42 Resp: 1523
 Ion Ratio Lower Upper
 42 100
 72 9.7 34.8 52.2#
 71 20.9 33.5 50.3#

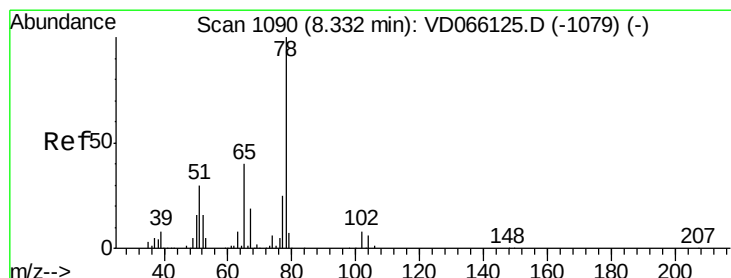
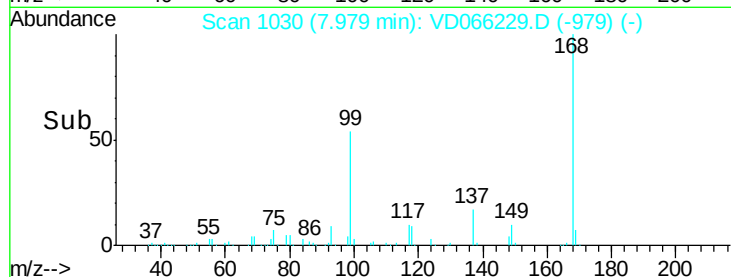
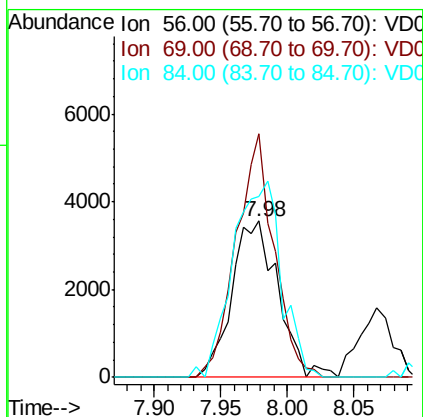
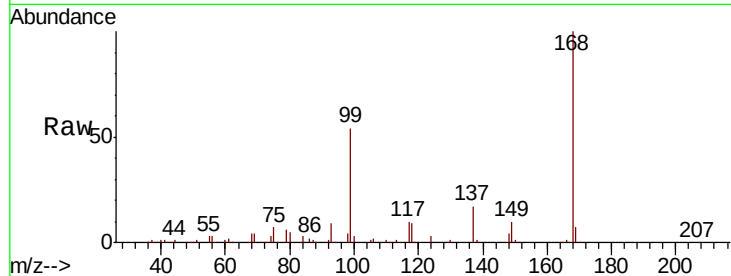




#31
Cyclohexane
Concen: 1.797 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VD066229.D
Acq: 14 Aug 2020 11:39

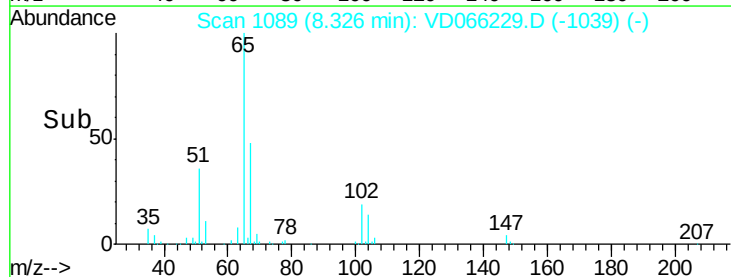
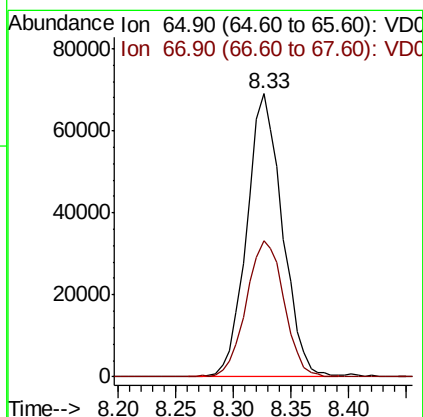
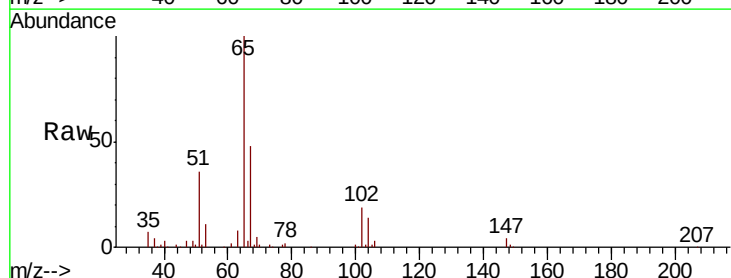
Instrument :
MSVOA_D
ClientSampleId :
VD0814SBL01

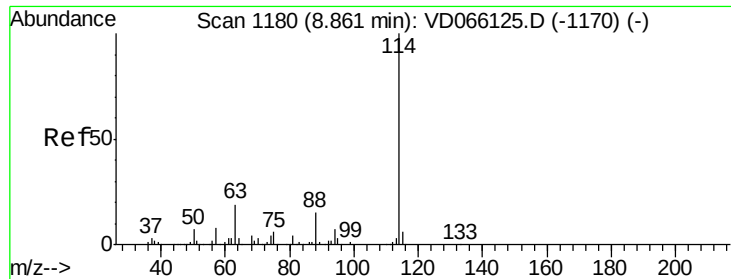
Tot Ion: 56 Resp: 8608
Ion Ratio Lower Upper
56 100
69 155.6 28.8 43.2#
84 115.4 73.0 109.6#



#33
1,2-Dichloroethane-d4
Concen: 54.253 ug/l
RT: 8.33 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VD066229.D
Acq: 14 Aug 2020 11:39

Tgt Ion: 65 Resp: 148322
Ion Ratio Lower Upper
65 100
67 51.0 0.0 104.6

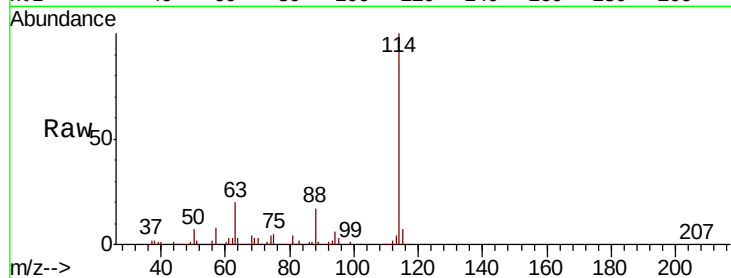




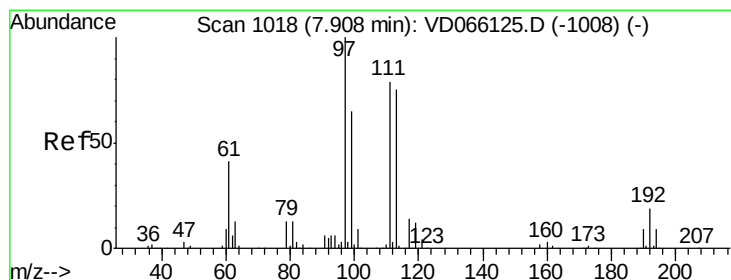
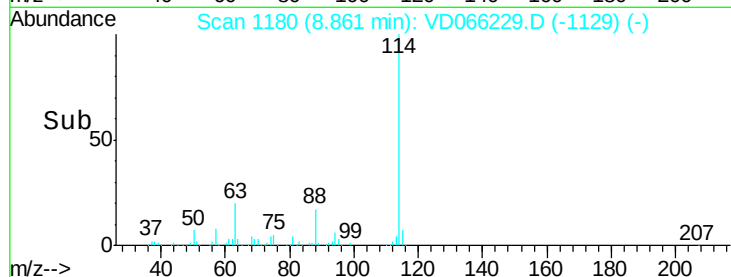
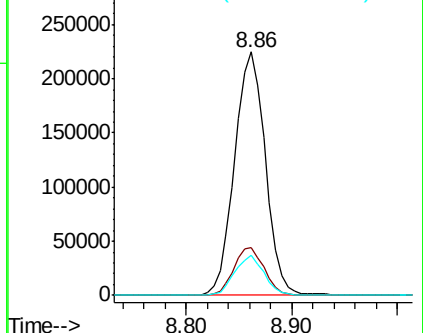
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD066229.D
 Acq: 14 Aug 2020 11:39

Instrument :
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 ClientSampleId :
 VD0814SBL01

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.6
88	16.6	0.0	30.0

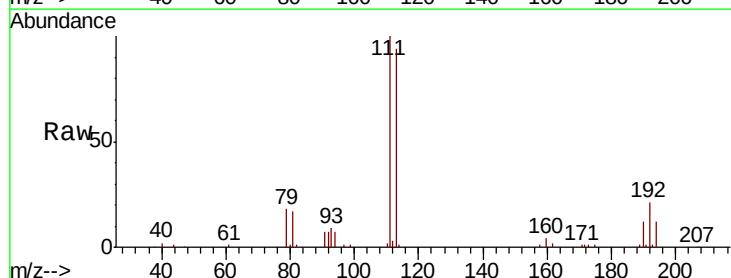


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

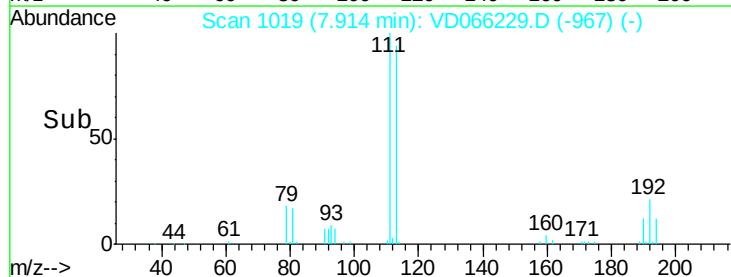
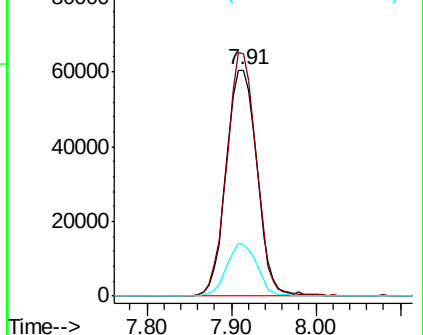


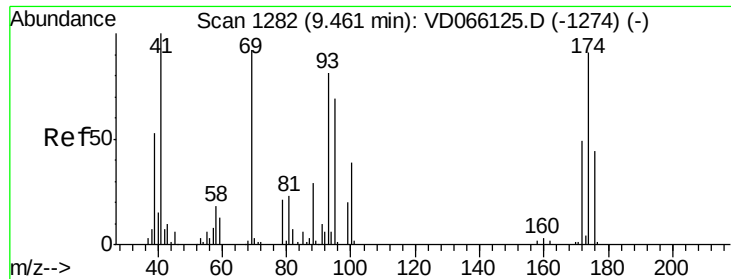
#35
 Dibromofluoromethane
 Concen: 53.016 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: VD066229.D
 Acq: 14 Aug 2020 11:39

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	80.7	121.1
192	22.8	18.4	27.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#49

1,4-Dioxane

Concen: 15.199 ug/l

RT: 9.46 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VD066229.D

Acq: 14 Aug 2020 11:39

Instrument :

MSVOA_D

ClientSampleId :

VD0814SBL01

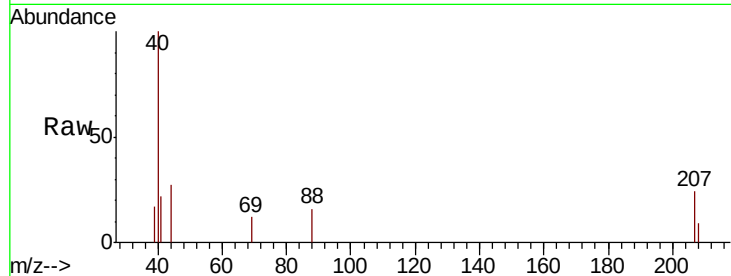
Tot Ion: 88 Resp: 312

Ion Ratio Lower Upper

88 100

43 17.9 27.5 41.3#

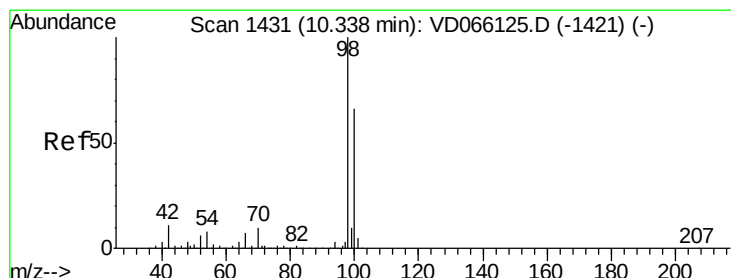
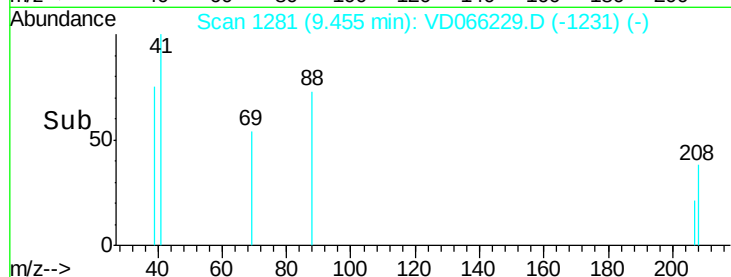
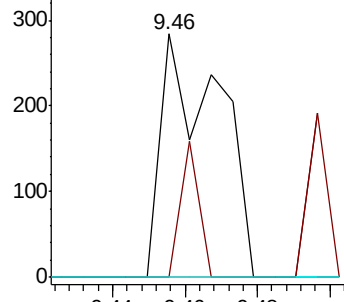
58 0.0 50.2 75.4#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 52.556 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066229.D

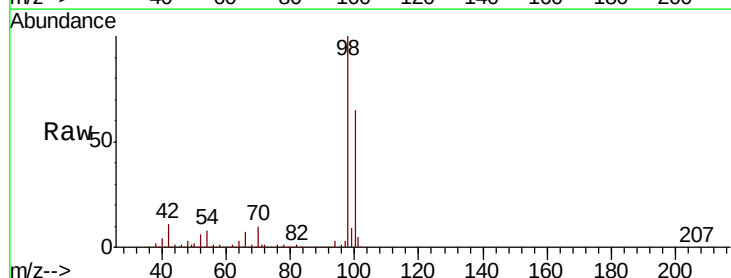
Acq: 14 Aug 2020 11:39

Tgt Ion: 98 Resp: 559001

Ion Ratio Lower Upper

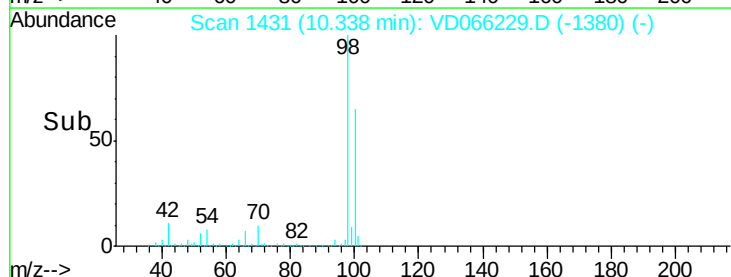
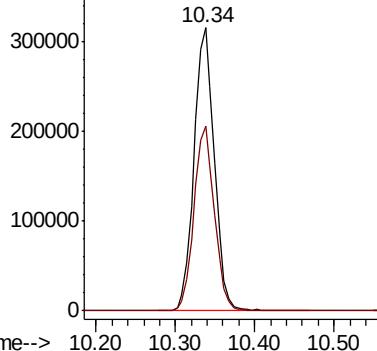
98 100

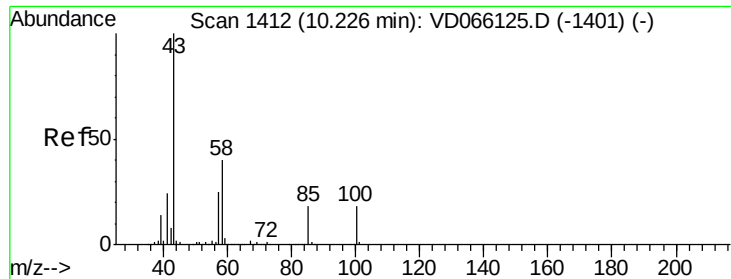
100 65.8 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.578 ug/l

RT: 10.22 min Scan# 1411

Delta R.T. -0.01 min

Lab File: VD066229.D

Acq: 14 Aug 2020 11:39

Instrument :

MSVOA_D

ClientSampleId :

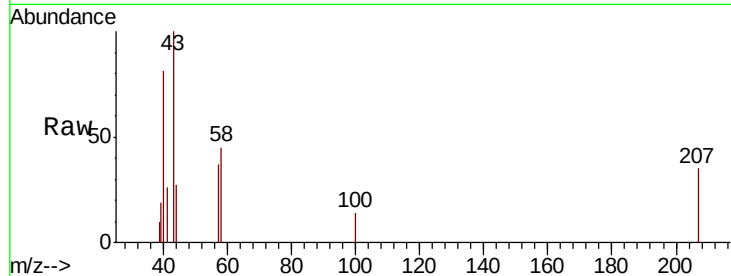
VD0814SBL01

Tot Ion: 43 Resp: 2705

Ion Ratio Lower Upper

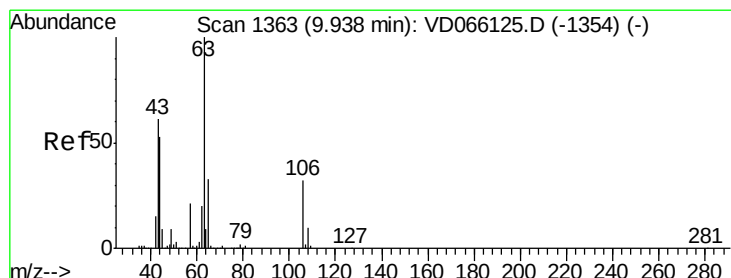
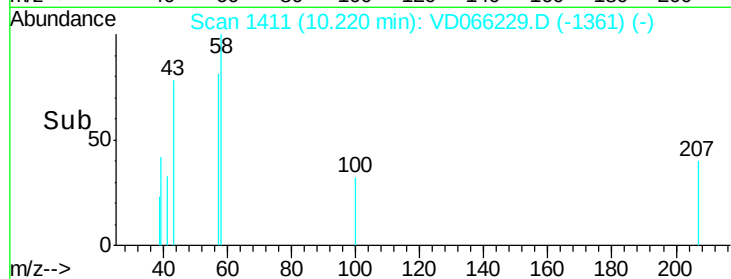
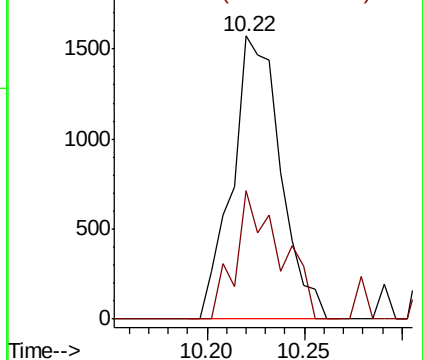
43 100

58 42.1 31.1 46.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 1.948 ug/l

RT: 9.94 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VD066229.D

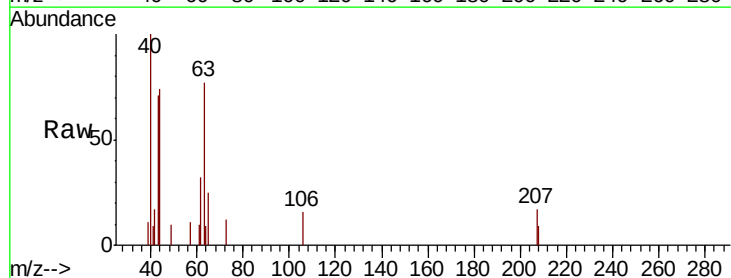
Acq: 14 Aug 2020 11:39

Tgt Ion: 63 Resp: 2422

Ion Ratio Lower Upper

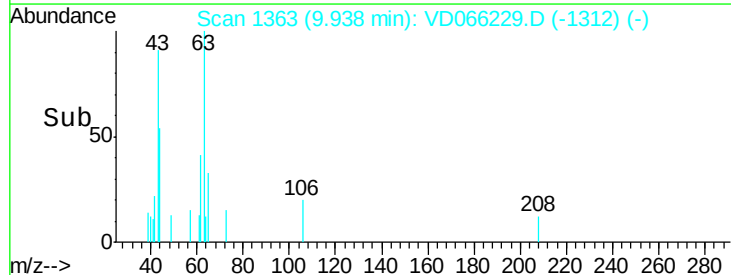
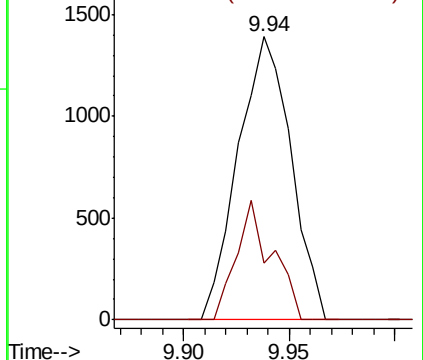
63 100

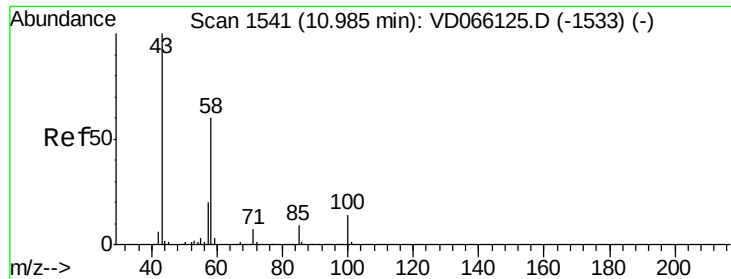
106 28.3 25.3 37.9



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): VDC

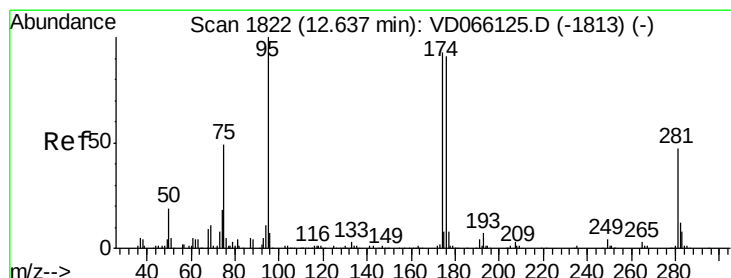
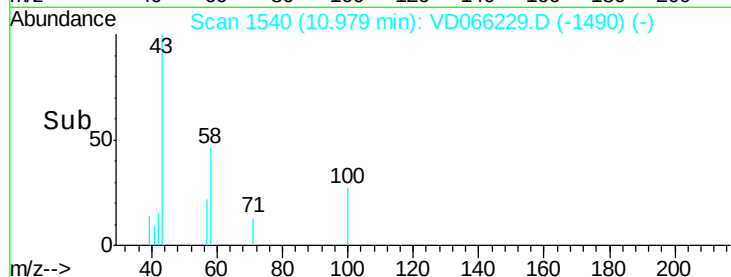
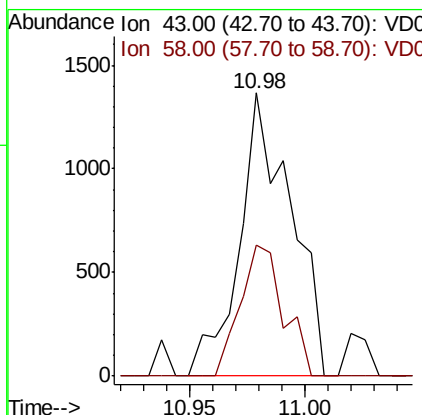
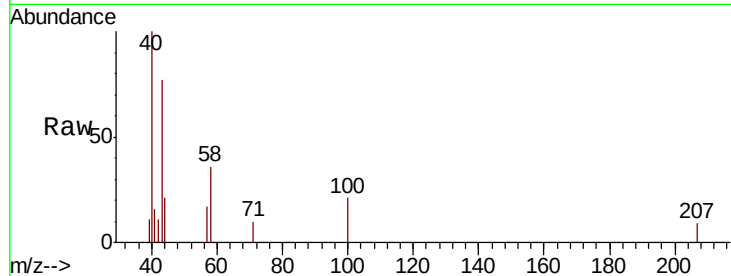




#59
2-Hexanone
Concen: 1.759 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. -0.01 min
Lab File: VD066229.D
Acq: 14 Aug 2020 11:39

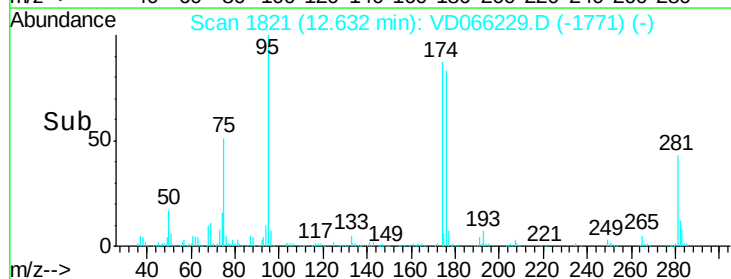
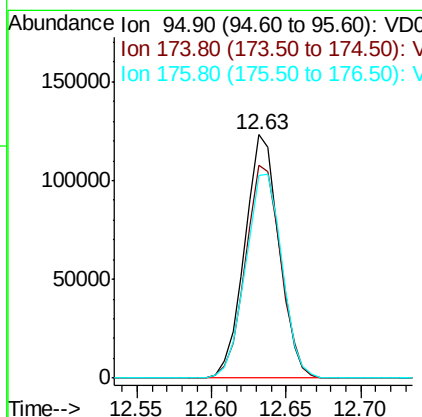
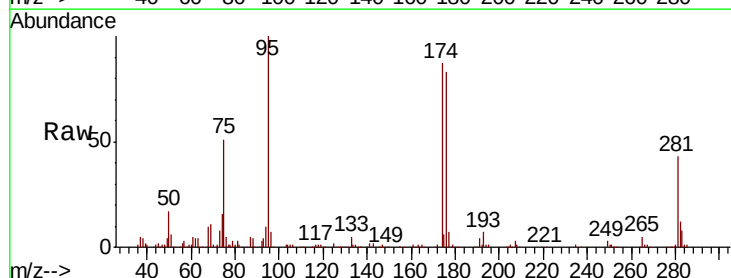
Instrument :
MSVOA_D
ClientSampleId :
VD0814SBL01

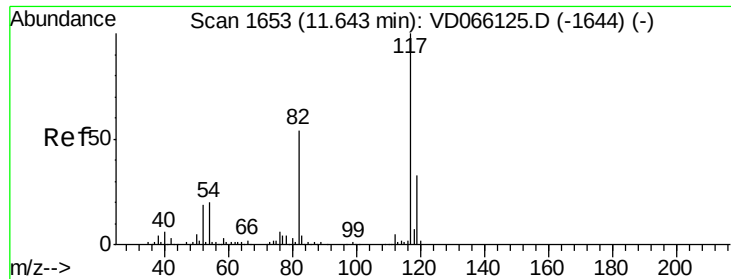
Tot Ion: 43 Resp: 2117
Ion Ratio Lower Upper
43 100
58 39.0 27.8 83.4



#62
4-Bromofluorobenzene
Concen: 51.283 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.01 min
Lab File: VD066229.D
Acq: 14 Aug 2020 11:39

Tgt Ion: 95 Resp: 196616
Ion Ratio Lower Upper
95 100
174 89.7 0.0 180.8
176 88.3 0.0 181.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066229.D

Acq: 14 Aug 2020 11:39

Instrument :

MSVOA_D

ClientSampleId :

VD0814SBL01

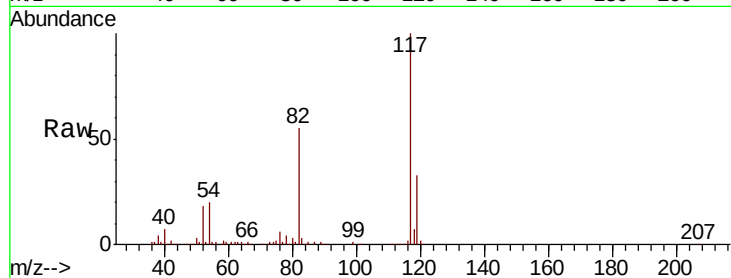
Tot Ion:117 Resp: 421362

Ion Ratio Lower Upper

117 100

82 54.8 43.0 64.4

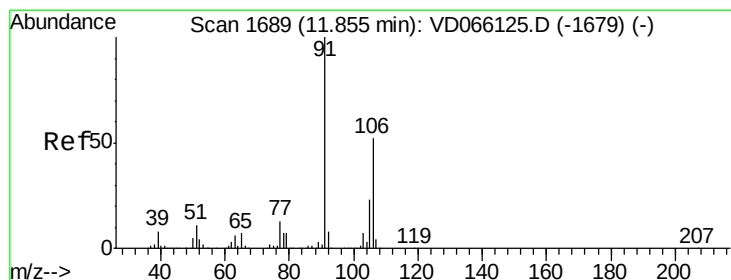
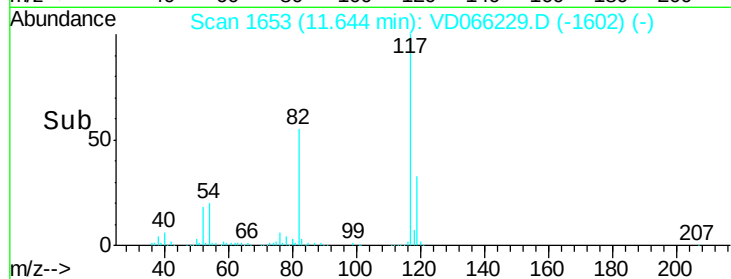
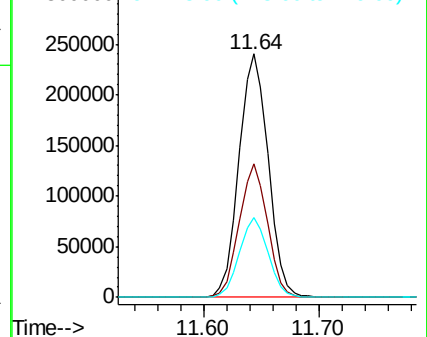
119 32.9 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#68

m/p-Xylenes

Concen: 1.122 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. -0.01 min

Lab File: VD066229.D

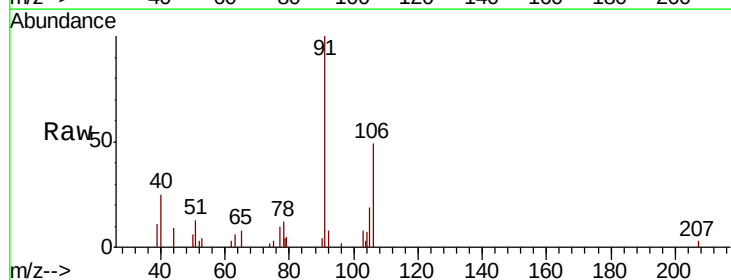
Acq: 14 Aug 2020 11:39

Tgt Ion:106 Resp: 6441

Ion Ratio Lower Upper

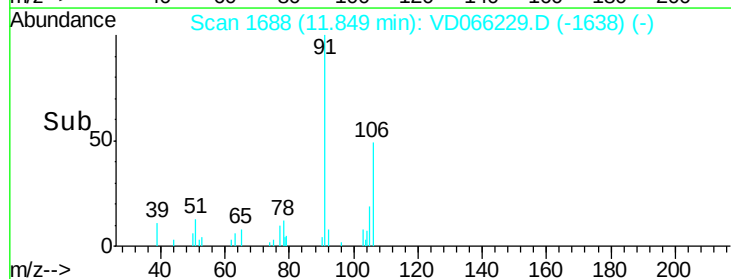
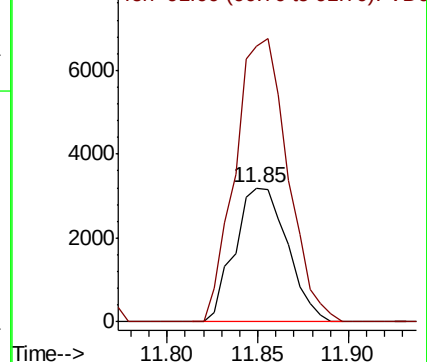
106 100

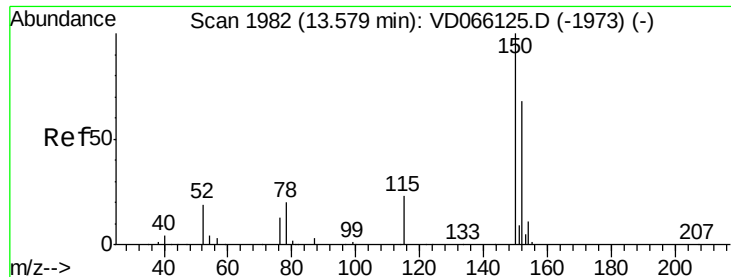
91 211.1 156.6 235.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066229.D

Acq: 14 Aug 2020 11:39

Instrument :

MSVOA_D

ClientSampleId :

VD0814SBL01

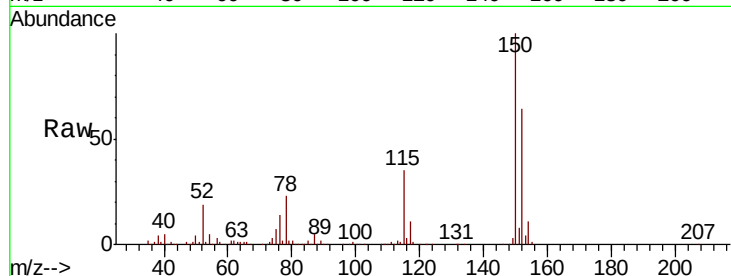
Tot Ion:152 Resp: 210038

Ion Ratio Lower Upper

152 100

115 56.8 28.0 83.9

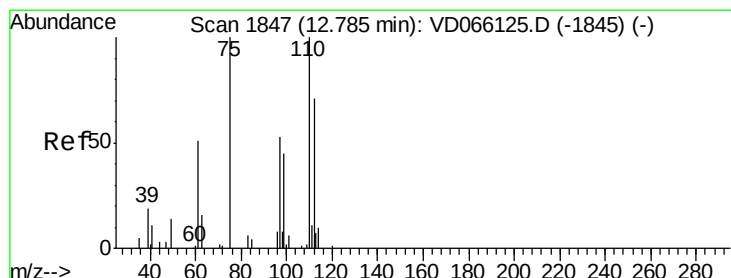
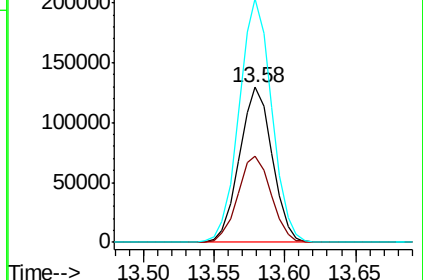
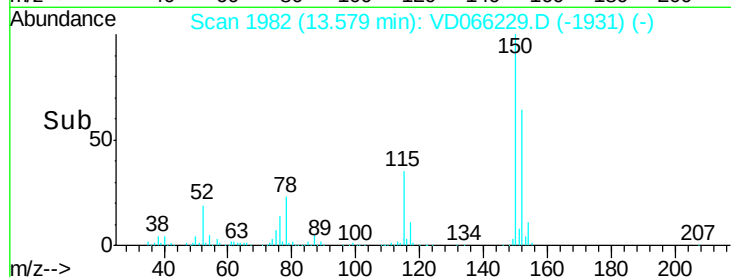
150 156.2 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 55.925 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066229.D

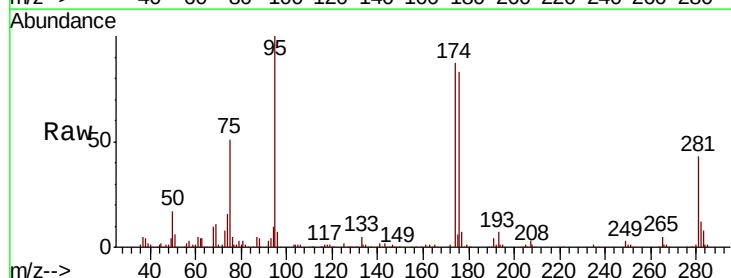
Acq: 14 Aug 2020 11:39

Tgt Ion: 75 Resp: 97957

Ion Ratio Lower Upper

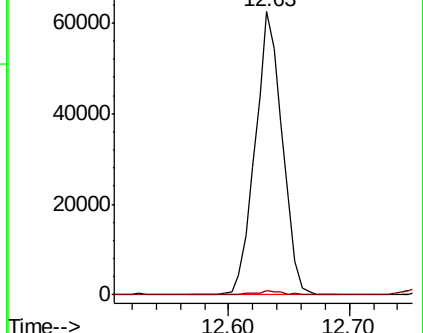
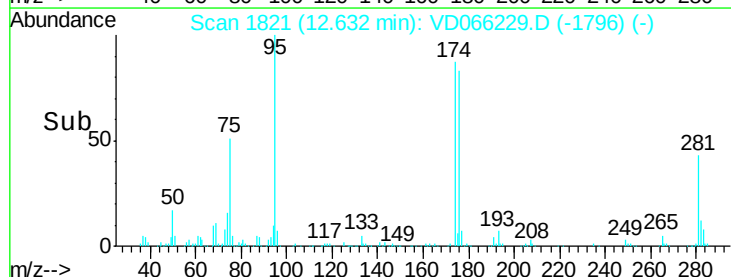
75 100

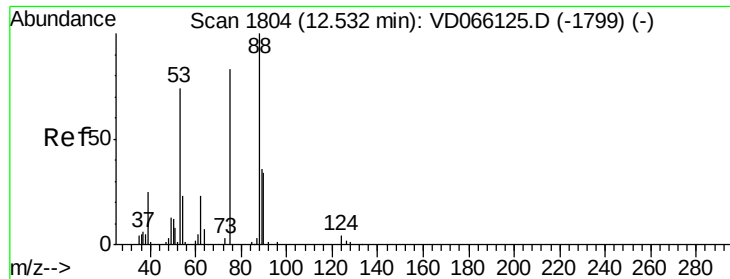
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 123.626 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066229.D

Acq: 14 Aug 2020 11:39

Instrument :

MSVOA_D

ClientSampleId :

VD0814SBL01

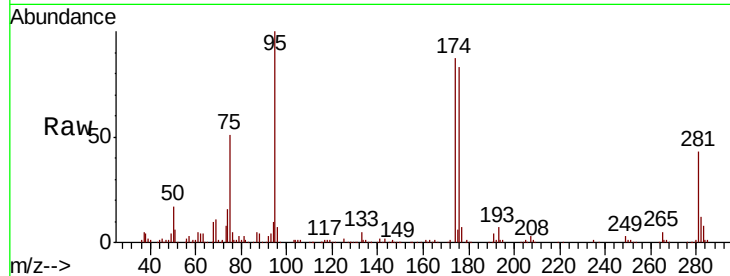
Tot Ion: 75 Resp: 97957

Ion Ratio Lower Upper

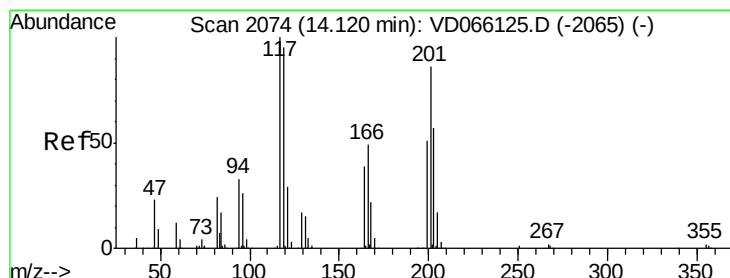
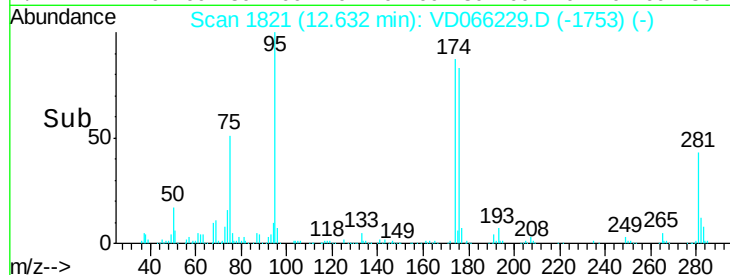
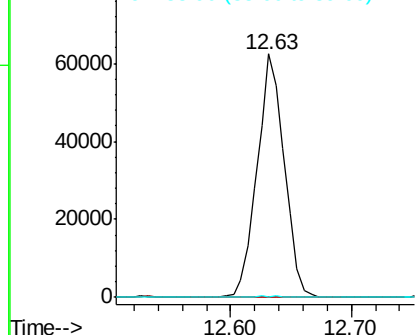
75 100

53 0.0 73.4 110.2#

89 0.6 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 88.90 (88.60 to 89.60): VDC



#90

Hexachloroethane

Concen: 1.034 ug/l

RT: 14.11 min Scan# 2072

Delta R.T. -0.01 min

Lab File: VD066229.D

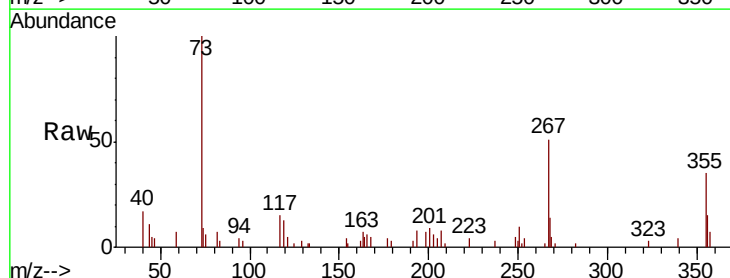
Acq: 14 Aug 2020 11:39

Tgt Ion: 117 Resp: 2694

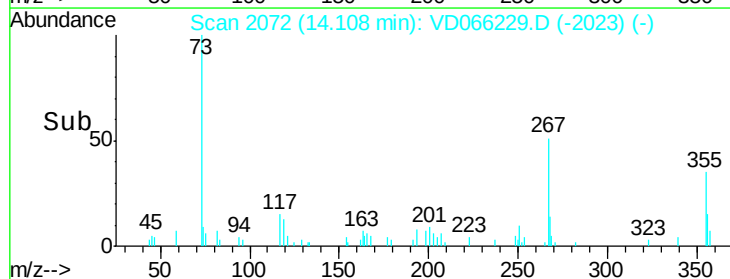
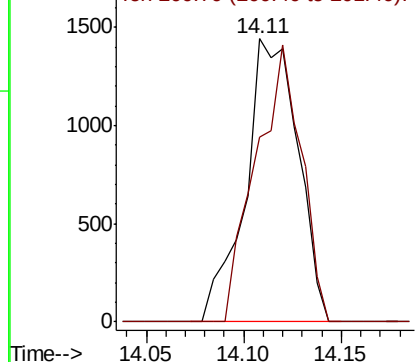
Ion Ratio Lower Upper

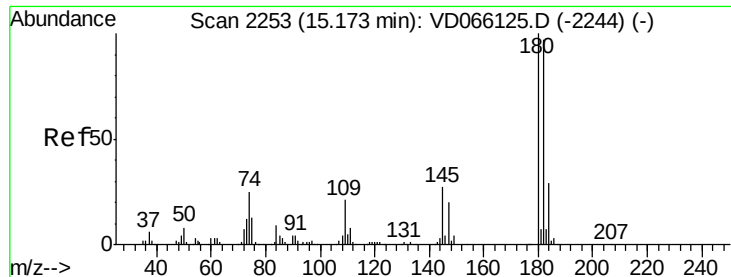
117 100

201 84.5 42.7 128.1



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

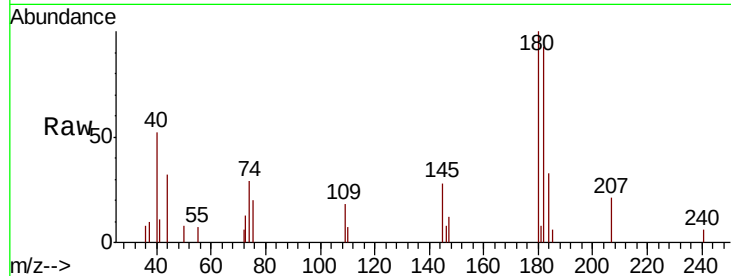




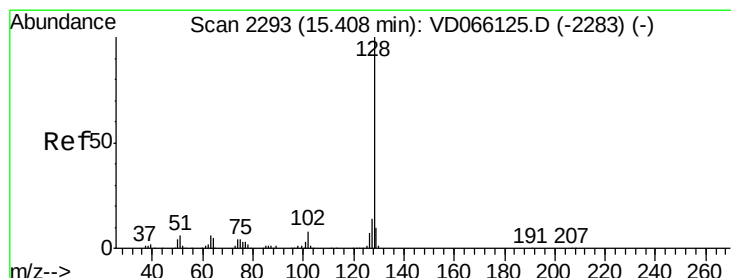
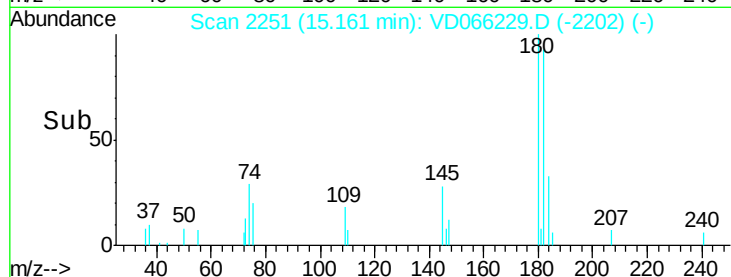
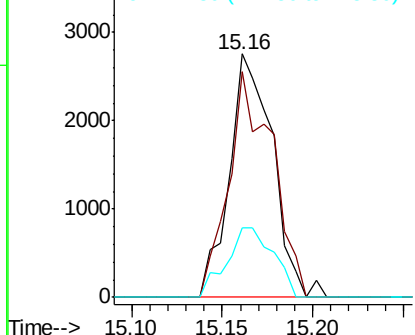
#93
 1,2,4-Trichlorobenzene
 Concen: 1.038 ug/l
 RT: 15.16 min Scan# 2251
 Delta R.T. -0.01 min
 Lab File: VD066229.D
 Acq: 14 Aug 2020 11:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0814SBL01

Tot Ion:180 Resp: 4589
 Ion Ratio Lower Upper
 180 100
 182 93.6 47.4 142.2
 145 30.8 14.5 43.6

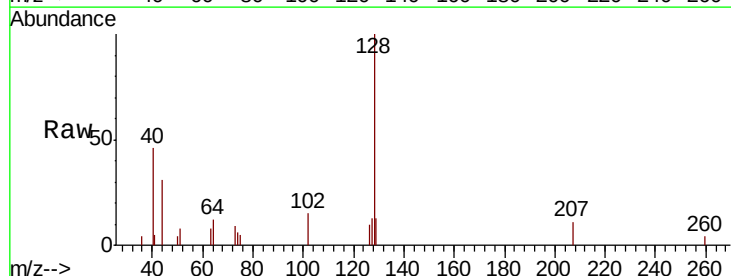


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

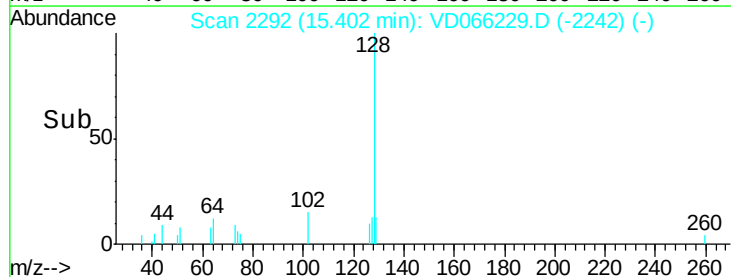
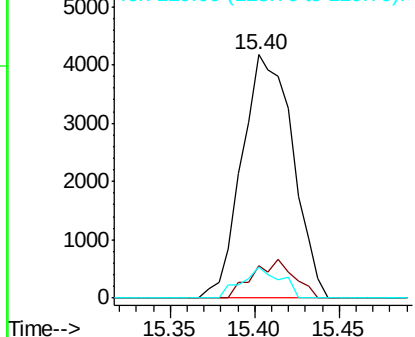


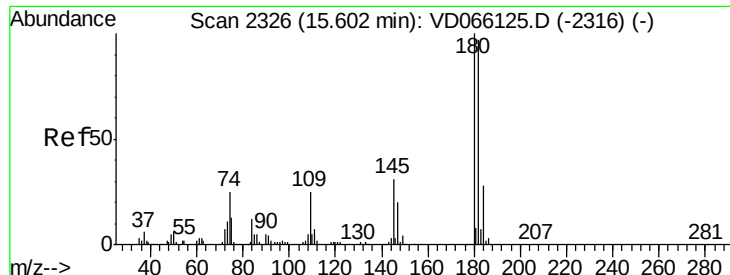
#95
 Naphthalene
 Concen: 1.209 ug/l
 RT: 15.40 min Scan# 2292
 Delta R.T. -0.01 min
 Lab File: VD066229.D
 Acq: 14 Aug 2020 11:39

Tgt Ion:128 Resp: 8712
 Ion Ratio Lower Upper
 128 100
 127 12.7 11.0 16.4
 129 9.8 8.8 13.2



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





#96
 1,2,3-Trichlorobenzene
 Concen: 1.193 ug/l
 RT: 15.60 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VD066229.D
 Acq: 14 Aug 2020 11:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0814SBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.7	47.1	141.4
145	28.7	14.9	44.9

