

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092920\
 Data File : VD066935.D
 Acq On : 29 Sep 2020 13:34
 Operator : VA/SY
 Sample : L4173-09
 Misc : 6.26G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-3-(3FT)

Quant Time: Sep 30 02:35:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	5049	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	7784	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	8916	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	3544	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	3556	71.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	143.92%	
35) Dibromofluoromethane	7.92	113	1215	24.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	49.06%	
50) Toluene-d8	10.33	98	9359	55.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.94%	
62) 4-Bromofluorobenzene	12.62	95	3318	57.44	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	114.88%	

Target Compounds

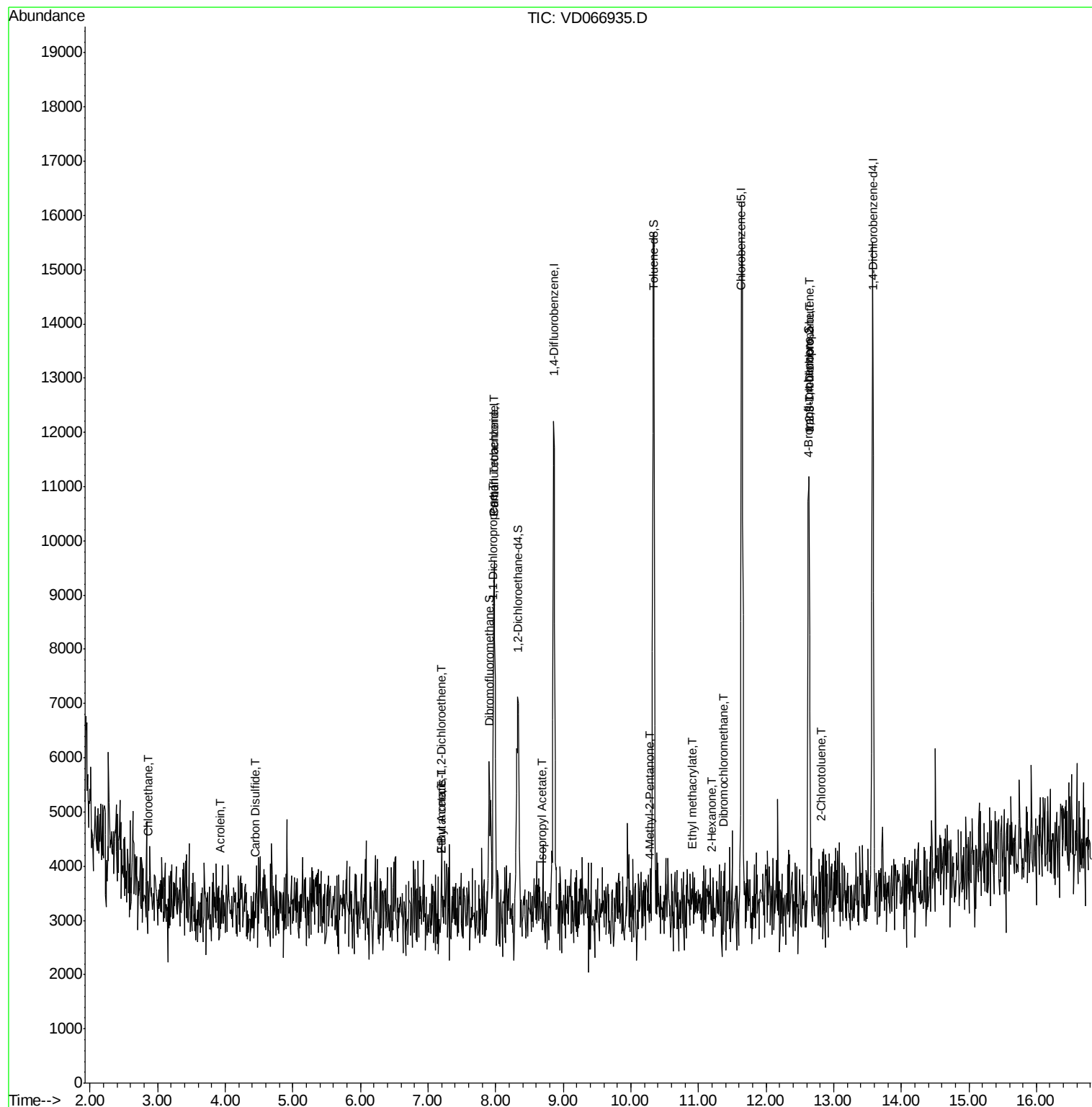
						Qvalue
6) Chloroethane	2.86	64	58	2.038	ug/l #	46
13) Acrolein	3.92	56	76	20.848	ug/l #	12
17) Carbon Disulfide	4.44	76	153	1.012	ug/l #	74
18) Methyl Acetate	4.88	43	60	Below Cal	#	50
25) 2-Butanone	7.19	43	59	4.683	ug/l #	46
27) cis-1,2-Dichloroethene	7.20	96	193	3.103	ug/l #	1
36) 1,1-Dichloropropene	7.96	75	252	3.263	ug/l #	41
37) Ethyl Acetate	7.19	43	59	2.113	ug/l #	70
38) Carbon Tetrachloride	7.98	117	624	7.391	ug/l #	12
43) Isopropyl Acetate	8.68	43	100	1.858	ug/l #	49
51) 4-Methyl-2-Pentanone	10.28	43	57	2.090	ug/l #	35
56) Ethyl methacrylate	10.91	69	55	1.269	ug/l #	26
59) 2-Hexanone	11.20	43	63	3.425	ug/l #	25
60) Dibromochloromethane	11.37	129	56	1.061	ug/l #	11
76) 1,2,3-Trichloropropane	12.64	75	1562	53.184	ug/l #	100
79) 2-Chlorotoluene	12.82	91	210	1.196	ug/l #	41
81) trans-1,4-Dichloro-2-buten	12.64	75	1562	133.061	ug/l #	10

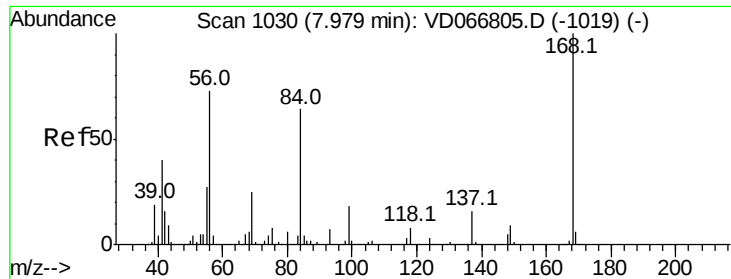
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

Instrument :

MSVOA_D

ClientSampleId :

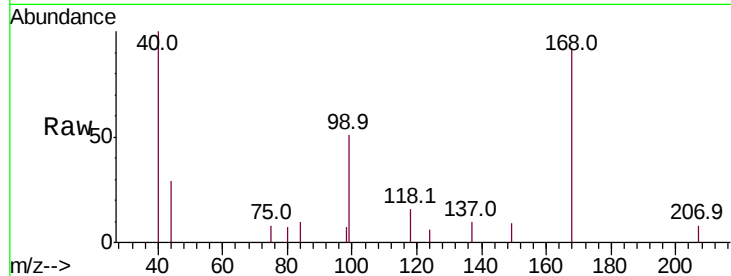
TP-3-(3FT)

Tot Ion:168 Resp: 5049

Ion Ratio Lower Upper

168 100

99 55.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

2500

2000

1500

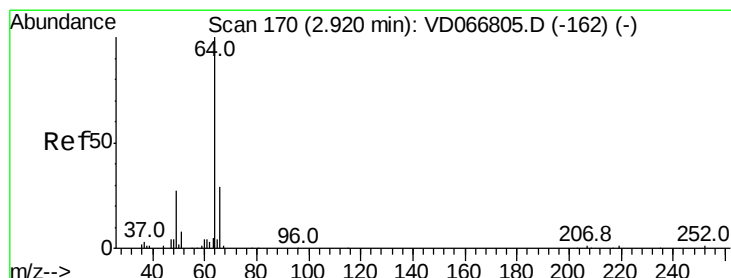
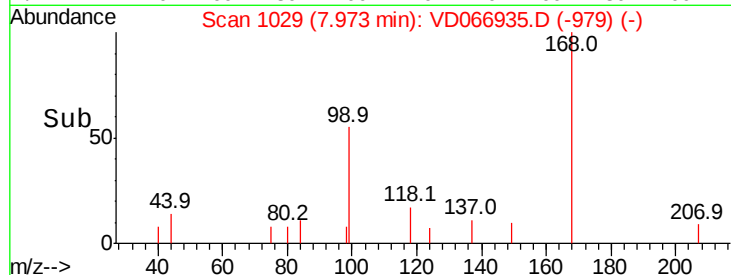
1000

500

0

Time-->

7.90 7.95 8.00 8.05



#6

Chloroethane

Concen: 2.038 ug/l

RT: 2.86 min Scan# 159

Delta R.T. -0.06 min

Lab File: VD066935.D

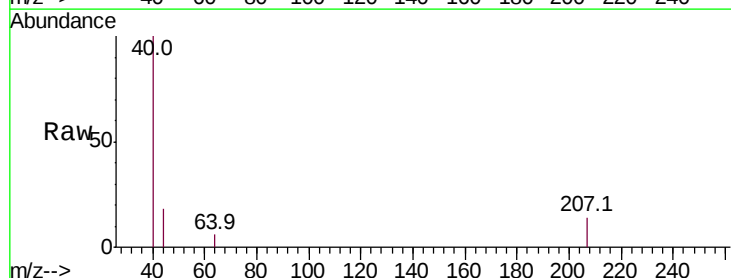
Acq: 29 Sep 2020 13:34

Tgt Ion: 64 Resp: 58

Ion Ratio Lower Upper

64 100

66 0.0 23.3 34.9#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.86

150

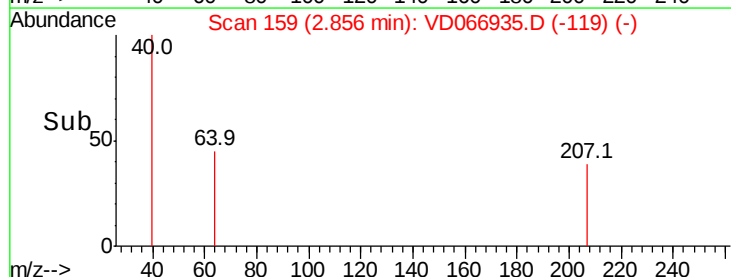
100

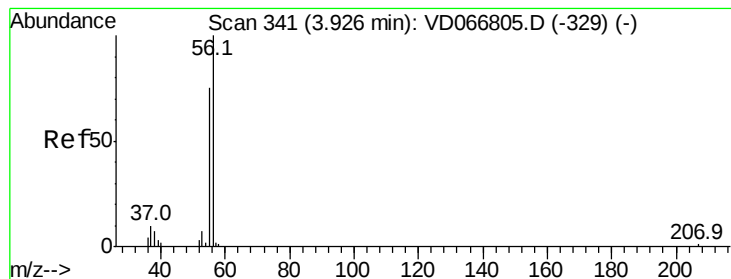
50

0

Time-->

2.84 2.85 2.86 2.87





#13

Acrolein

Concen: 20.848 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

Instrument :

MSVOA_D

ClientSampleId :

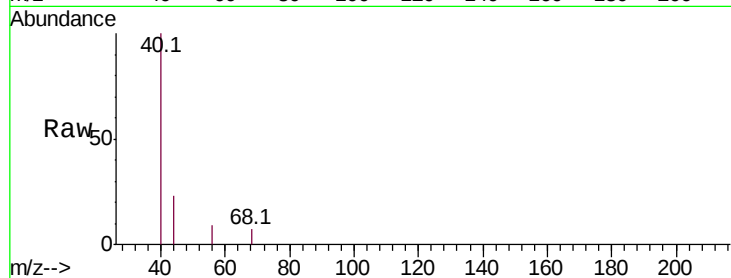
TP-3-(3FT)

Tot Ion: 56 Resp: 76

Ion Ratio Lower Upper

56 100

55 0.0 60.3 90.5#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

250

200

150

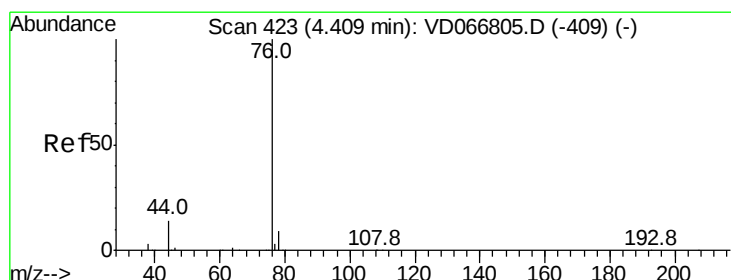
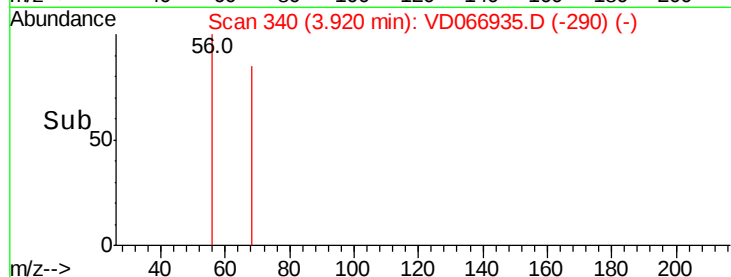
100

50

0

3.90 3.91 3.92 3.93 3.94

Time-->



#17

Carbon Disulfide

Concen: 1.012 ug/l

RT: 4.44 min Scan# 428

Delta R.T. 0.03 min

Lab File: VD066935.D

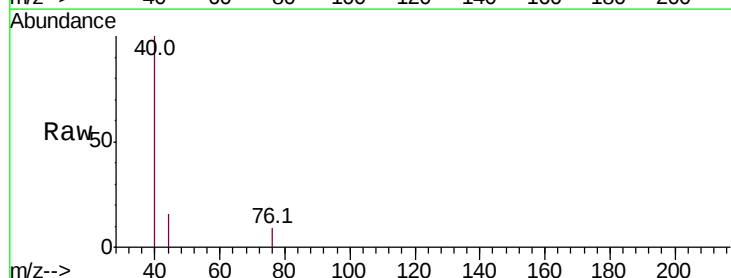
Acq: 29 Sep 2020 13:34

Tgt Ion: 76 Resp: 153

Ion Ratio Lower Upper

76 100

78 0.0 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

250

200

150

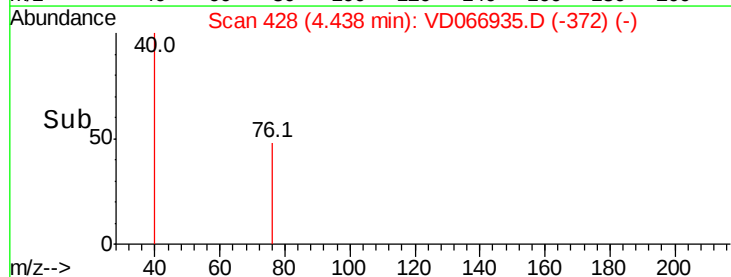
100

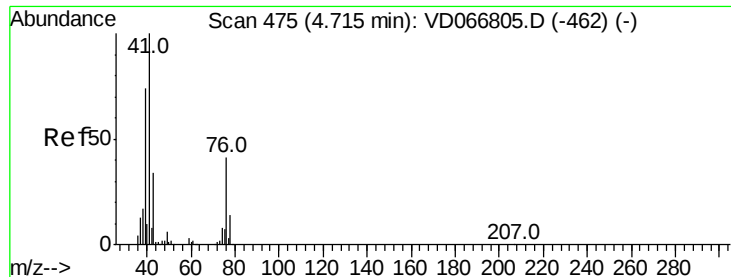
50

0

4.42 4.44 4.46

Time-->





#18

Methyl Acetate

Concen: Below Cal

RT: 4.88 min Scan# 503

Delta R.T. 0.17 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

Instrument :

MSVOA_D

ClientSampleId :

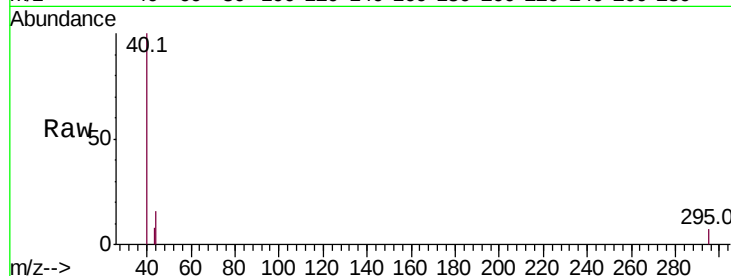
TP-3-(3FT)

Tot Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.88

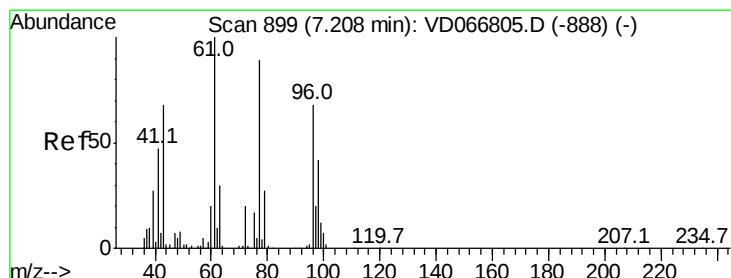
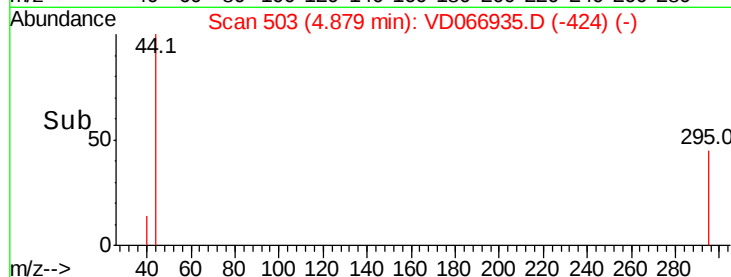
150

100

50

0

Time--> 4.86 4.87 4.88 4.89



#25

2-Butanone

Concen: 4.683 ug/l

RT: 7.19 min Scan# 896

Delta R.T. -0.02 min

Lab File: VD066935.D

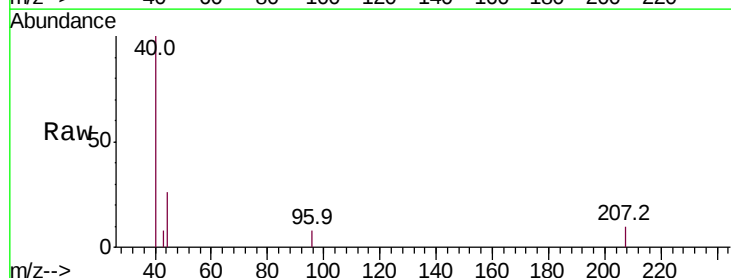
Acq: 29 Sep 2020 13:34

Tgt Ion: 43 Resp: 59

Ion Ratio Lower Upper

43 100

72 0.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.19

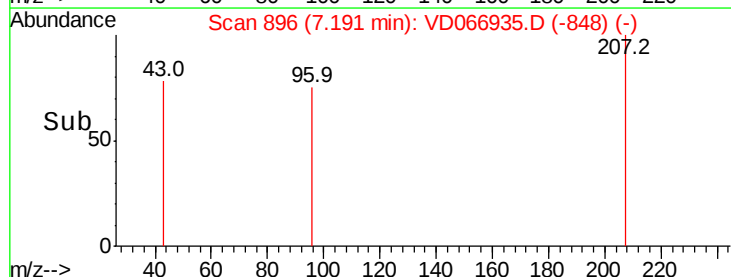
150

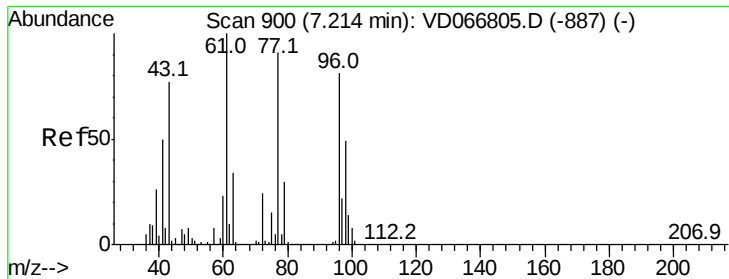
100

50

0

Time--> 7.17 7.18 7.19 7.20 7.21



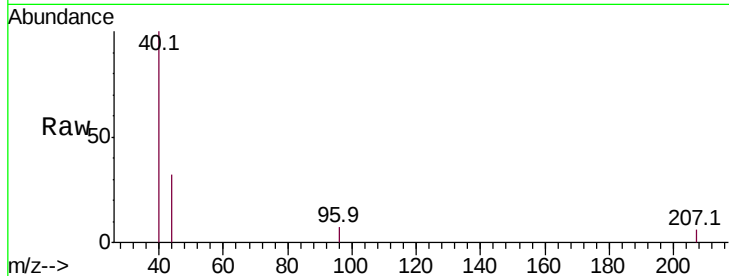


#27

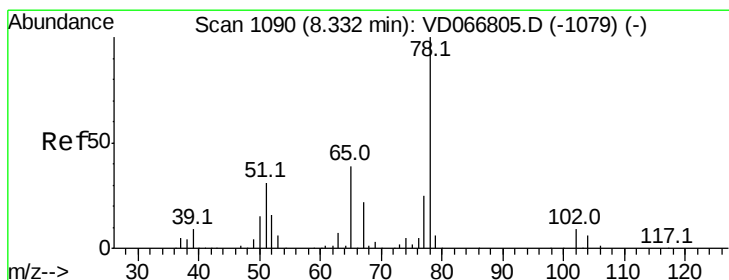
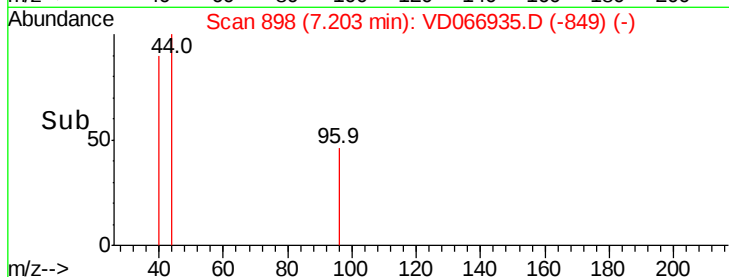
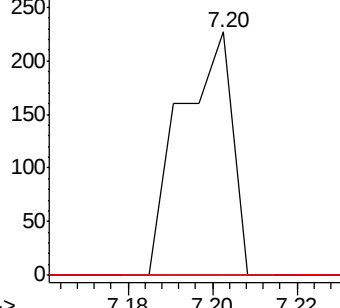
cis-1,2-Dichloroethene
Concen: 3.103 ug/l
RT: 7.20 min Scan# 898
Delta R.T. -0.01 min
Lab File: VD066935.D
Acq: 29 Sep 2020 13:34

Instrument :
MSVOA_D
ClientSampleId :
TP-3-(3FT)

Tot Ion: 96 Resp: 193
Ion Ratio Lower Upper
96 100
61 0.0 0.0 283.8
98 0.0 0.0 128.4



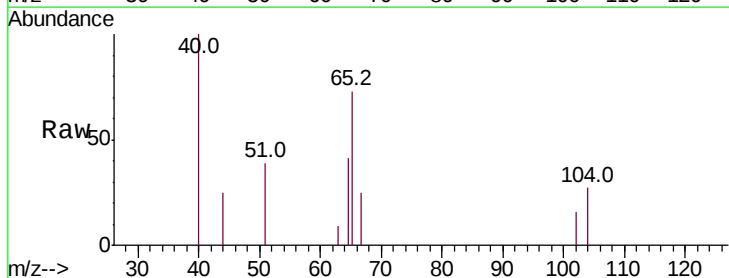
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



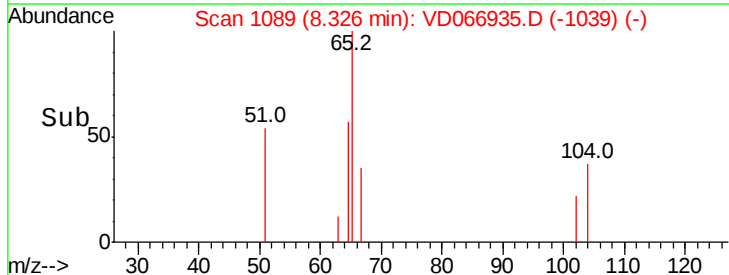
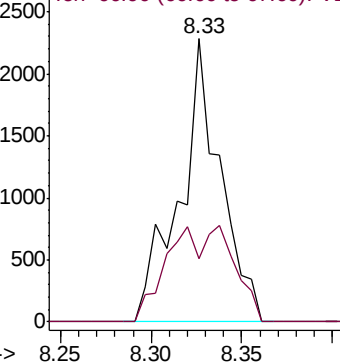
#33

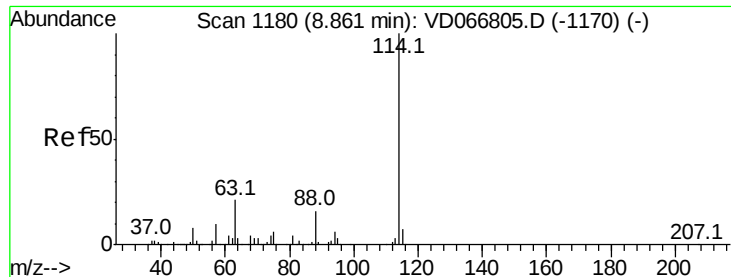
1,2-Dichloroethane-d4
Concen: 71.958 ug/l
RT: 8.33 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VD066935.D
Acq: 29 Sep 2020 13:34

Tgt Ion: 65 Resp: 3556
Ion Ratio Lower Upper
65 100
67 29.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

Instrument :

MSVOA_D

ClientSampleId :

TP-3-(3FT)

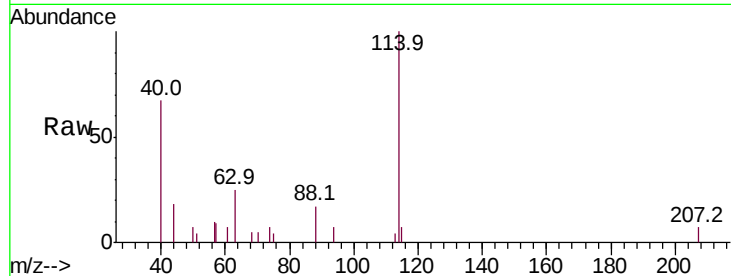
Tot Ion:114 Resp: 7784

Ion Ratio Lower Upper

114 100

63 24.8 0.0 42.6

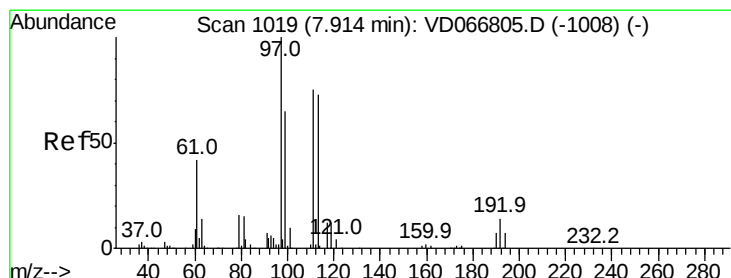
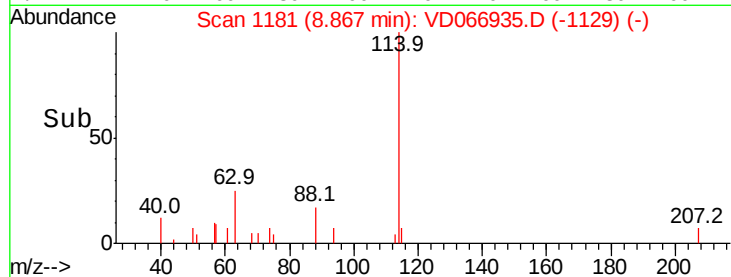
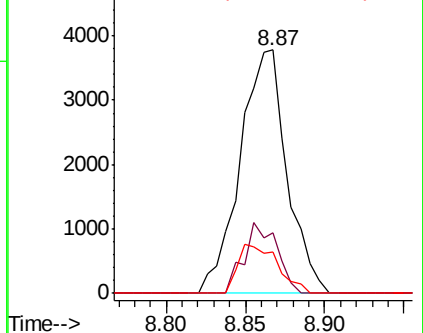
88 17.1 0.0 32.6



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: 24.535 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

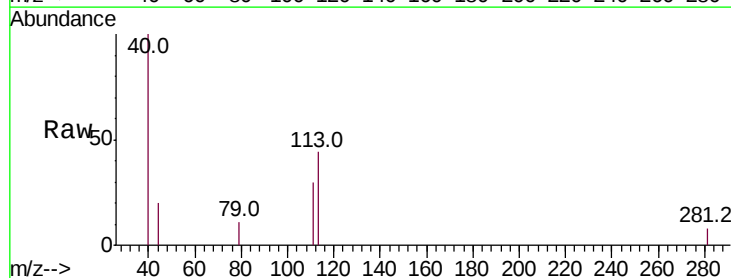
Tgt Ion:113 Resp: 1215

Ion Ratio Lower Upper

113 100

111 154.8 81.8 122.8#

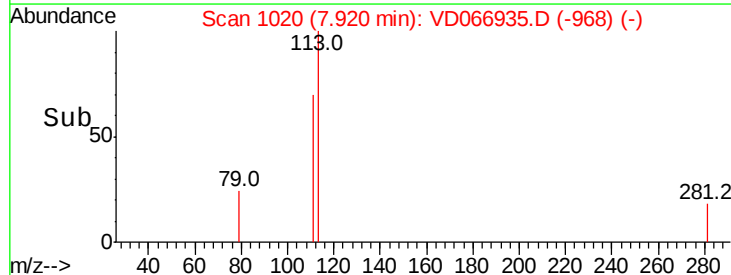
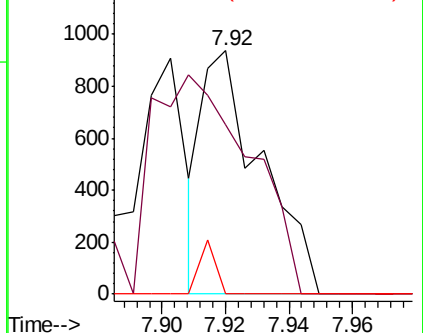
192 6.0 14.4 21.6#

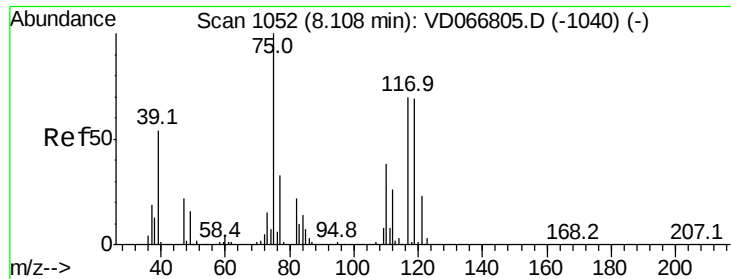


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.263 ug/l

RT: 7.96 min Scan# 1027

Delta R.T. -0.15 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

Instrument :

MSVOA_D

ClientSampleId :

TP-3-(3FT)

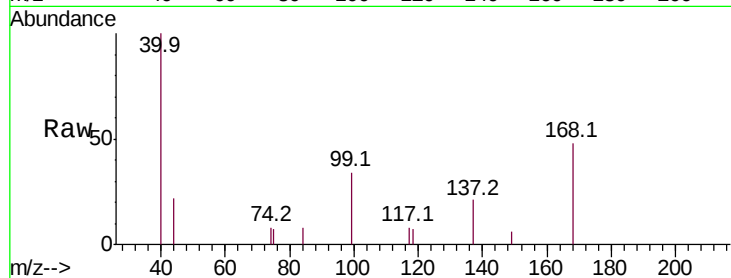
Tot Ion: 75 Resp: 252

Ion Ratio Lower Upper

75 100

110 0.0 17.9 53.8#

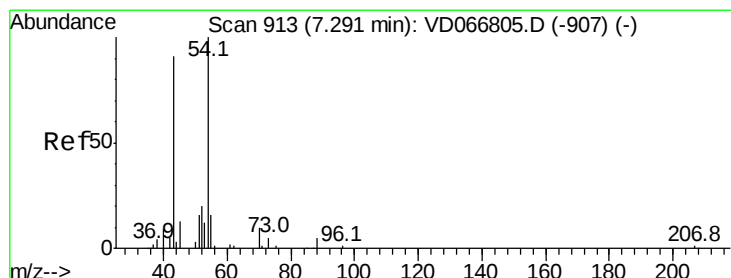
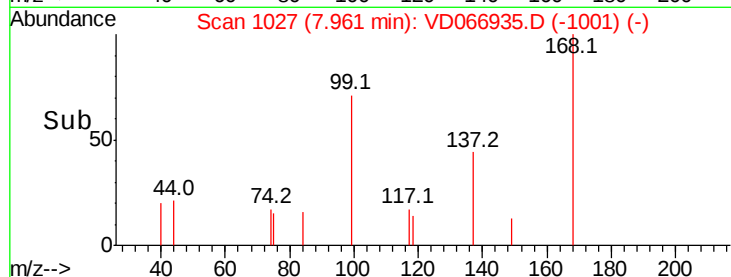
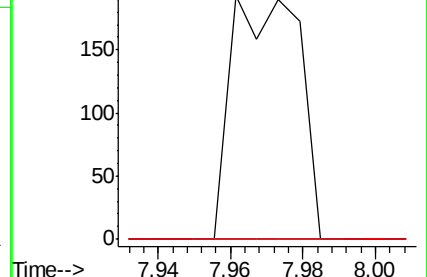
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 2.113 ug/l

RT: 7.19 min Scan# 896

Delta R.T. -0.10 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

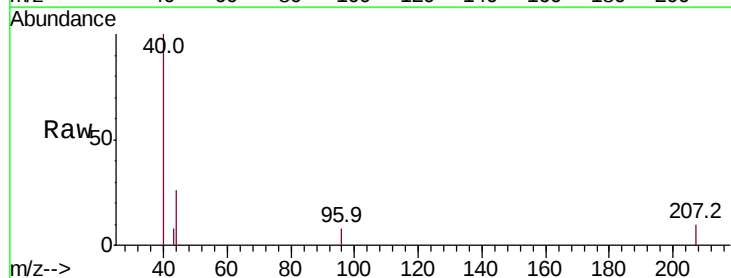
Tgt Ion: 43 Resp: 59

Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

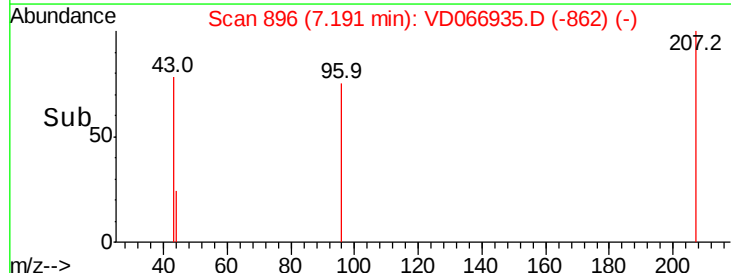
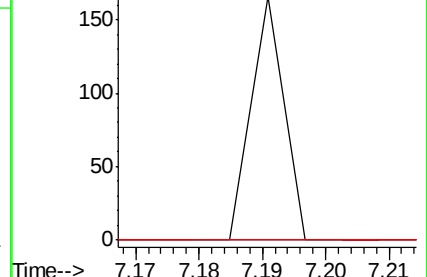
70 0.0 8.5 12.7#

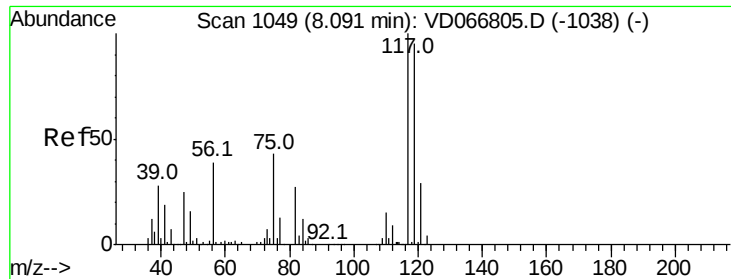


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 7.391 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

Instrument :

MSVOA_D

ClientSampleId :

TP-3-(3FT)

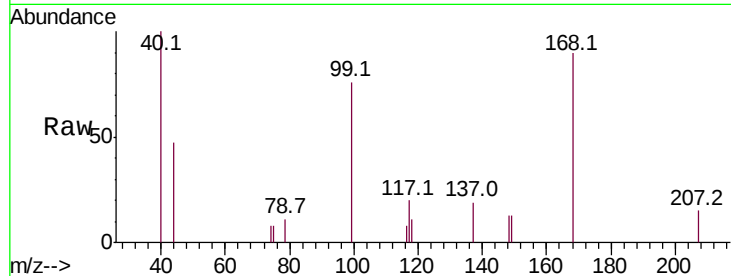
Tot Ion:117 Resp: 624

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.4 35.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

7.98

600

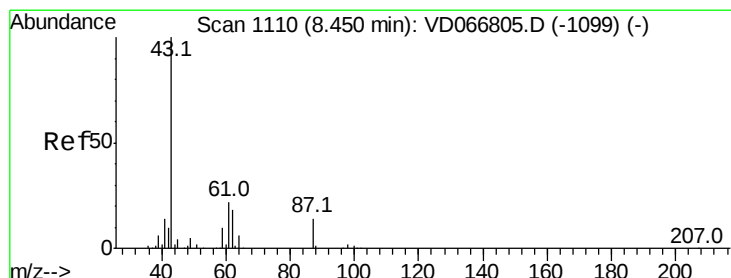
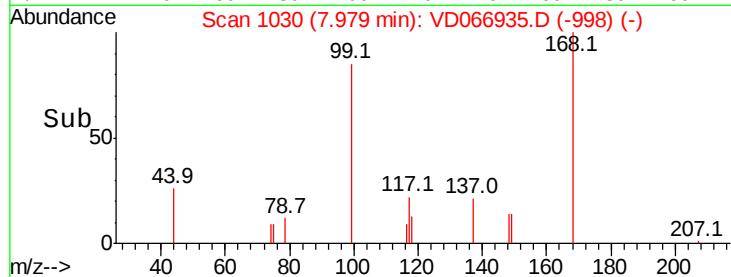
400

200

0

7.95 8.00

Time-->



#43

Isopropyl Acetate

Concen: 1.858 ug/l

RT: 8.68 min Scan# 1150

Delta R.T. 0.24 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

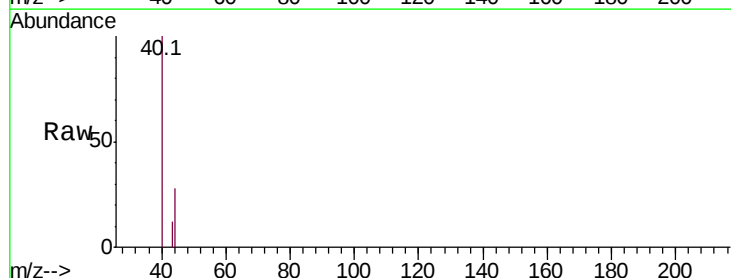
Tgt Ion: 43 Resp: 100

Ion Ratio Lower Upper

43 100

61 0.0 26.2 39.4#

87 0.0 11.5 17.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

8.68

300

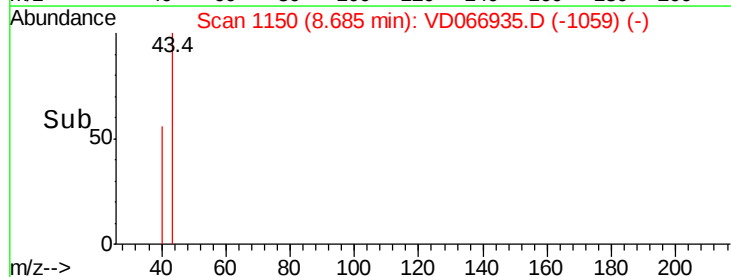
200

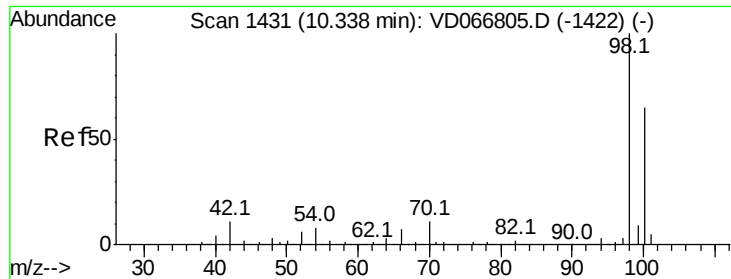
100

0

8.67 8.68 8.69 8.70

Time-->





#50

Toluene-d8

Concen: 55.468 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. -0.01 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

Instrument :

MSVOA_D

ClientSampleId :

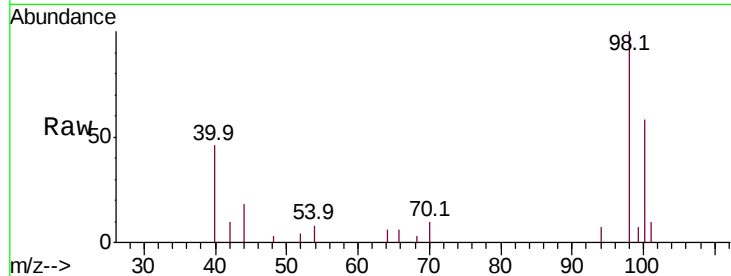
TP-3-(3FT)

Tot Ion: 98 Resp: 9359

Ion Ratio Lower Upper

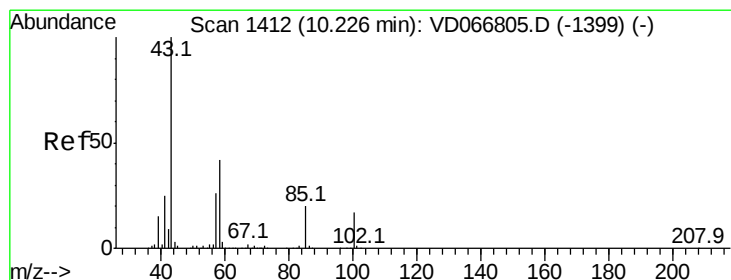
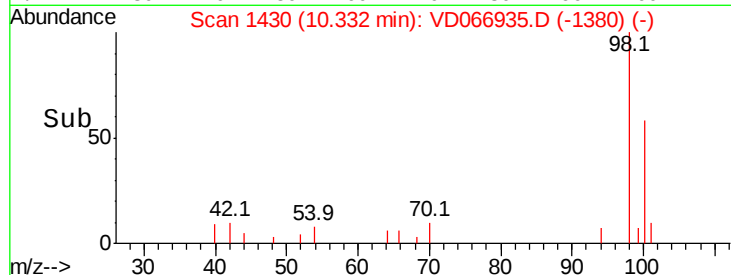
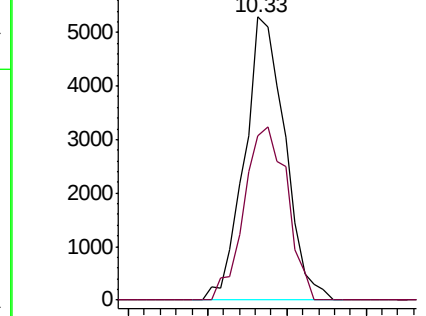
98 100

100 65.3 52.2 78.2



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: 2.090 ug/l

RT: 10.28 min Scan# 1421

Delta R.T. 0.05 min

Lab File: VD066935.D

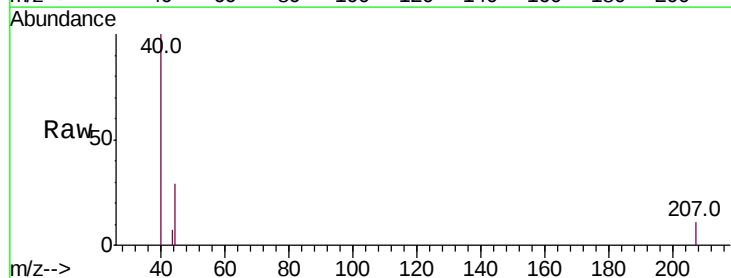
Acq: 29 Sep 2020 13:34

Tgt Ion: 43 Resp: 57

Ion Ratio Lower Upper

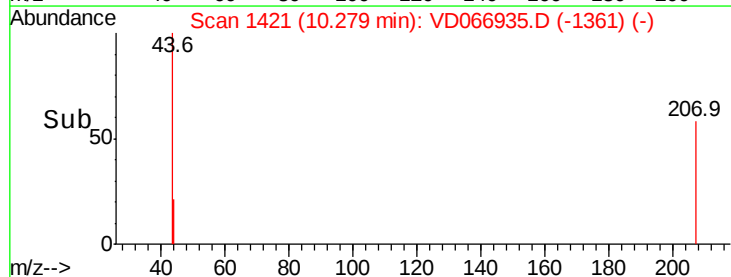
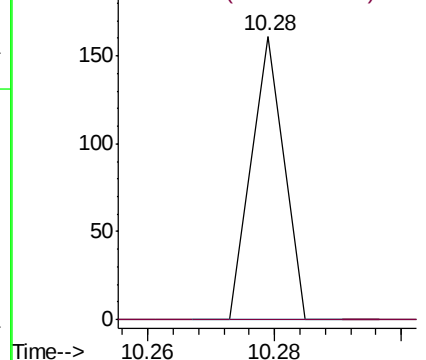
43 100

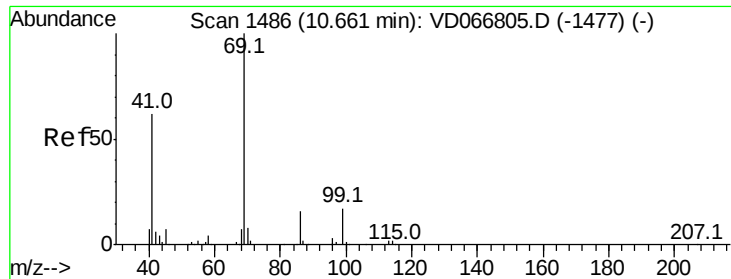
58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#56

Ethyl methacrylate

Concen: 1.269 ug/l

RT: 10.91 min Scan# 1528

Delta R.T. 0.25 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

Instrument :

MSVOA_D

ClientSampleId :

TP-3-(3FT)

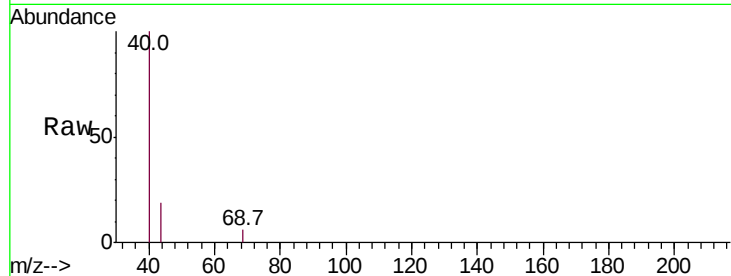
Tot Ion: 69 Resp: 55

Ion Ratio Lower Upper

69 100

41 0.0 52.2 78.2#

39 0.0 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

10.91

150

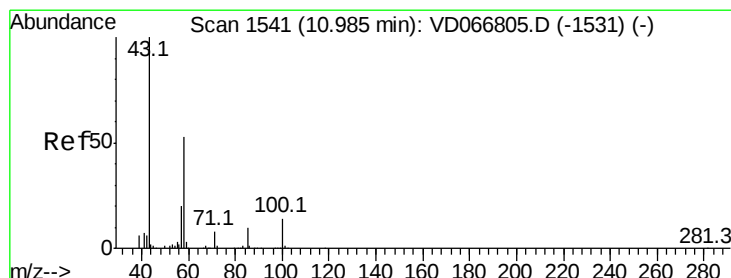
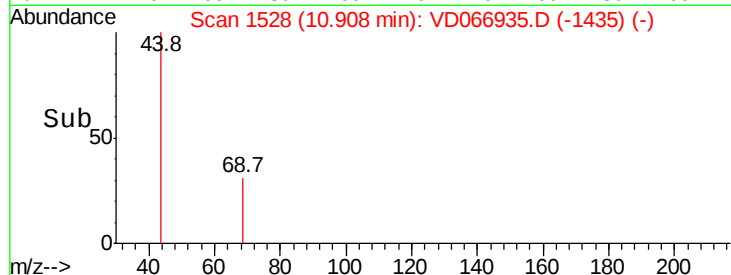
100

50

0

10.90 10.92

Time-->



#59

2-Hexanone

Concen: 3.425 ug/l

RT: 11.20 min Scan# 1577

Delta R.T. 0.21 min

Lab File: VD066935.D

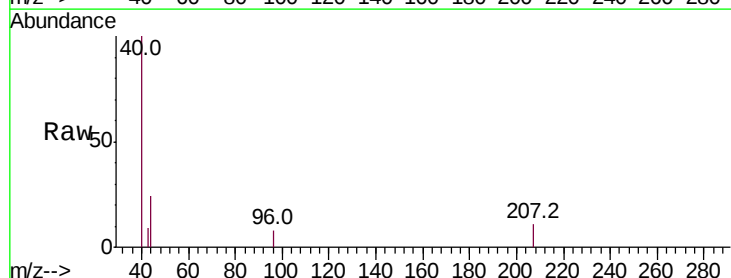
Acq: 29 Sep 2020 13:34

Tgt Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

58 0.0 27.0 80.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

11.20

200

150

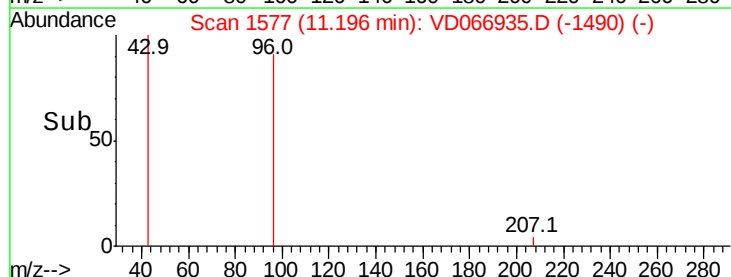
100

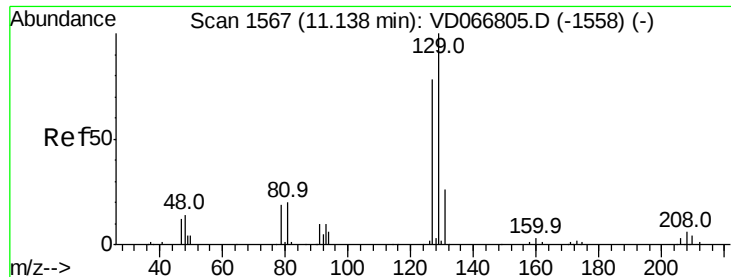
50

0

11.18 11.20

Time-->





#60

Dibromochloromethane

Concen: 1.061 ug/l

RT: 11.37 min Scan# 1607

Delta R.T. 0.24 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

Instrument :

MSVOA_D

ClientSampleId :

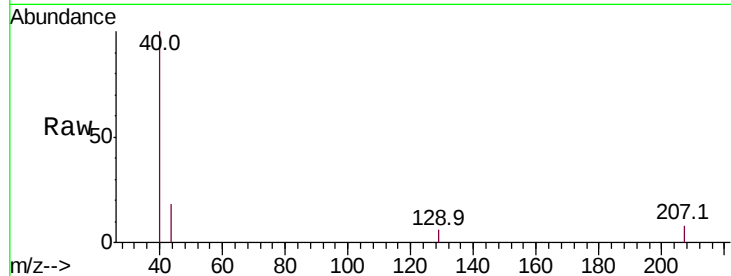
TP-3-(3FT)

Tot Ion:129 Resp: 56

Ion Ratio Lower Upper

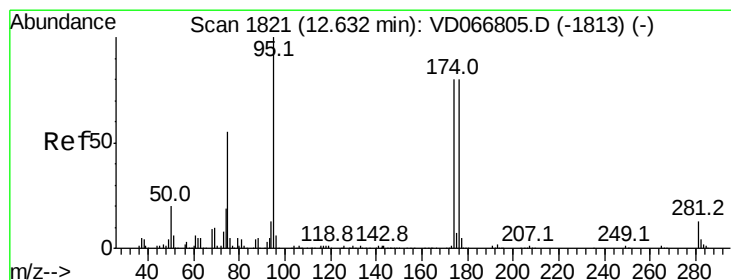
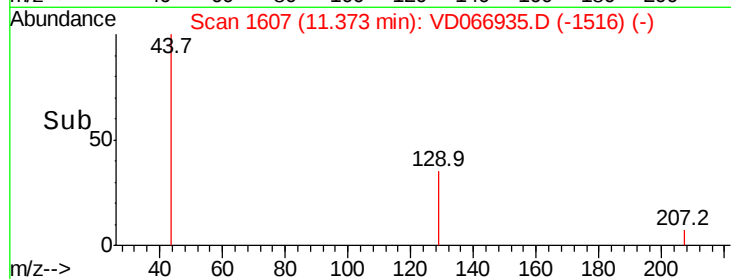
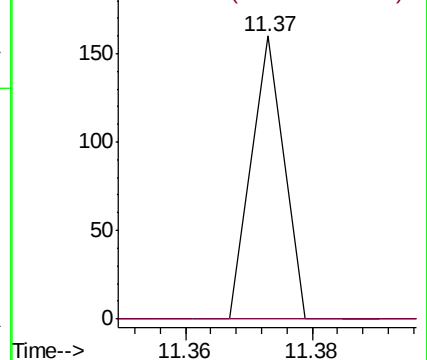
129 100

127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 57.443 ug/l

RT: 12.62 min Scan# 1819

Delta R.T. -0.01 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

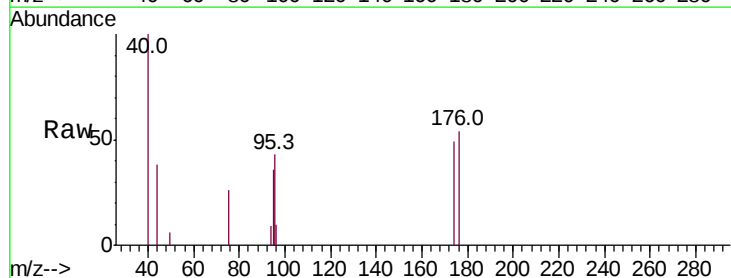
Tgt Ion: 95 Resp: 3318

Ion Ratio Lower Upper

95 100

174 97.8 0.0 159.8

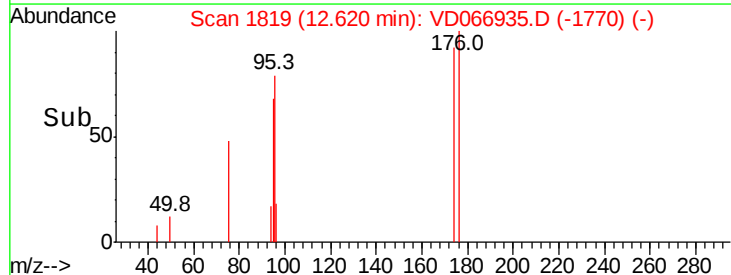
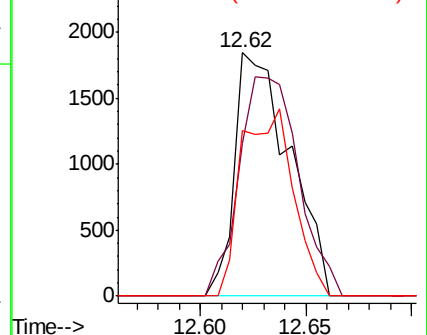
176 72.6 0.0 154.4

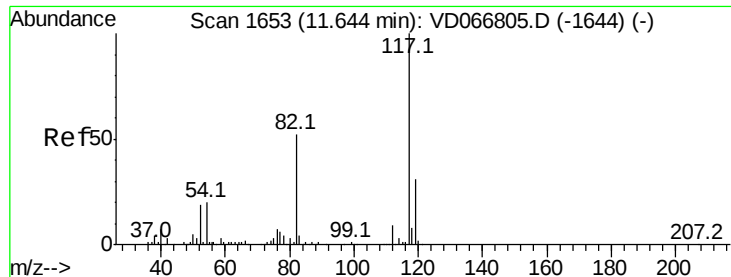


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

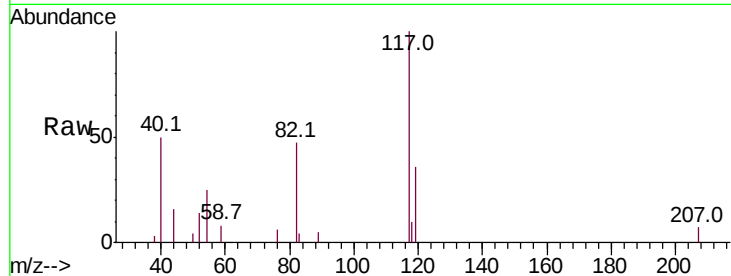




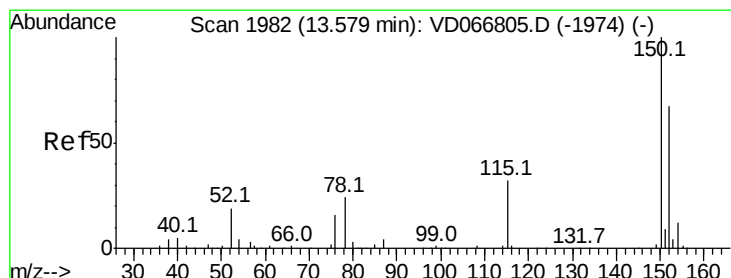
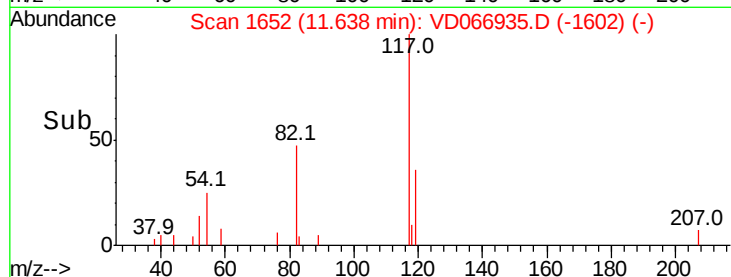
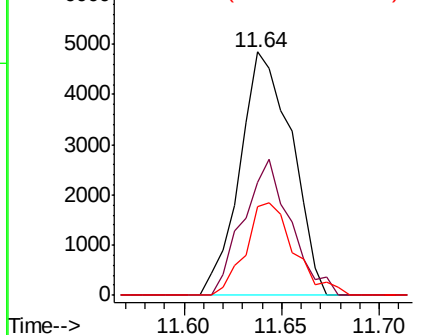
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1652
Delta R.T. -0.01 min
Lab File: VD066935.D
Acq: 29 Sep 2020 13:34

Instrument :
MSVOA_D
ClientSampleId :
TP-3-(3FT)

Tot Ion:117 Resp: 8916
Ion Ratio Lower Upper
117 100
82 46.6 41.8 62.6
119 36.5 24.6 37.0

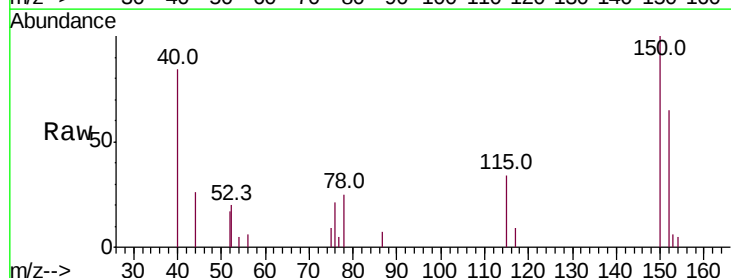


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

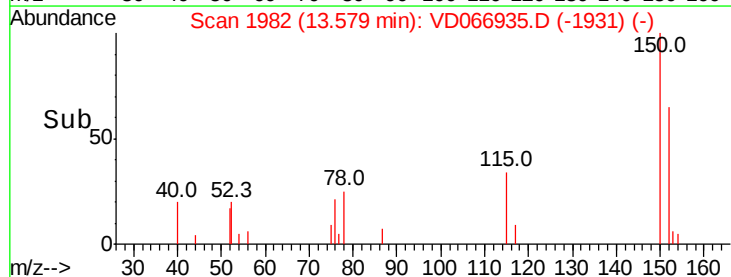
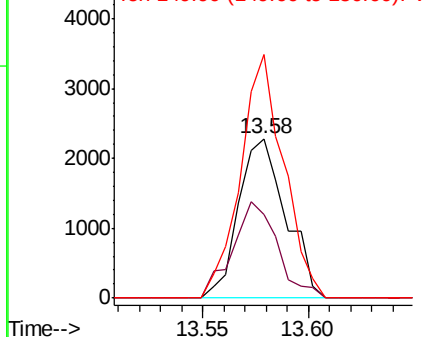


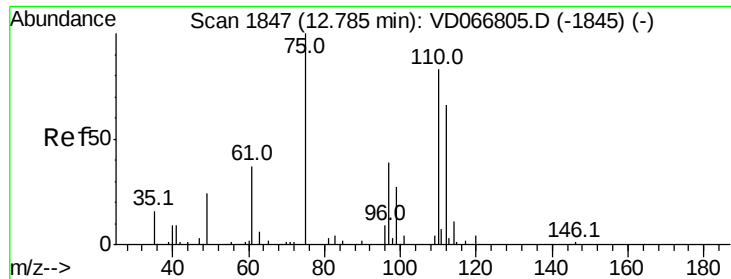
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066935.D
Acq: 29 Sep 2020 13:34

Tgt Ion:152 Resp: 3544
Ion Ratio Lower Upper
152 100
115 57.3 30.3 91.0
150 139.9 0.0 346.2



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

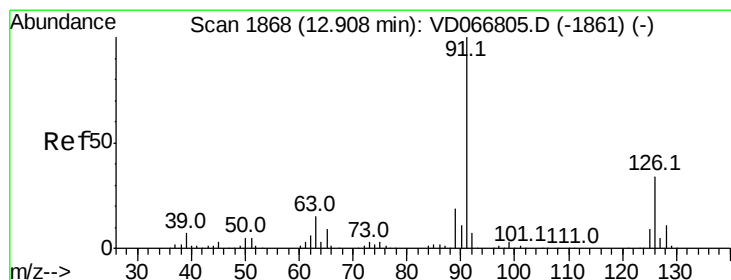
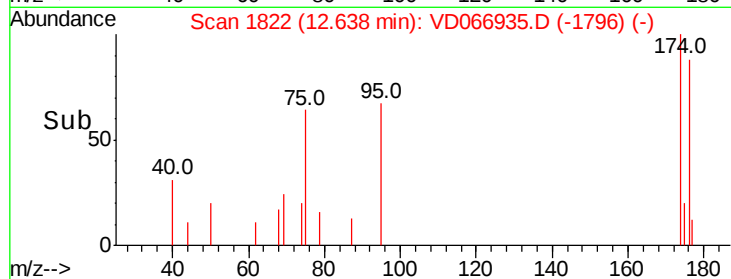
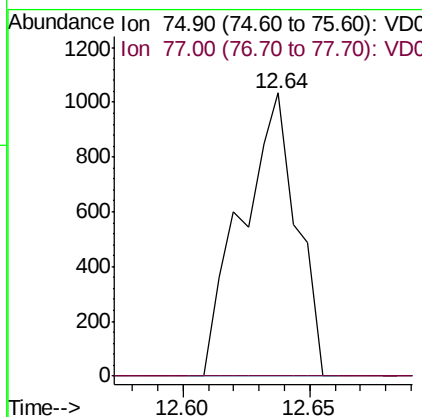
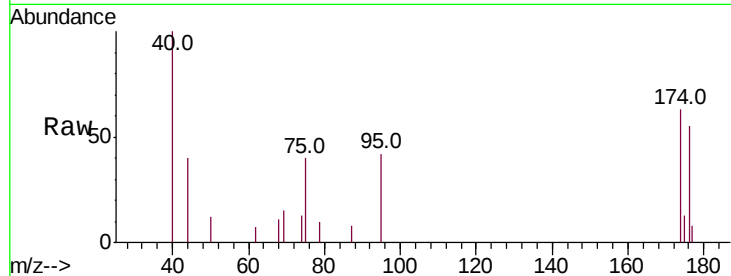




#76
 1,2,3-Trichloropropane
 Concen: 53.184 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD066935.D
 Acq: 29 Sep 2020 13:34

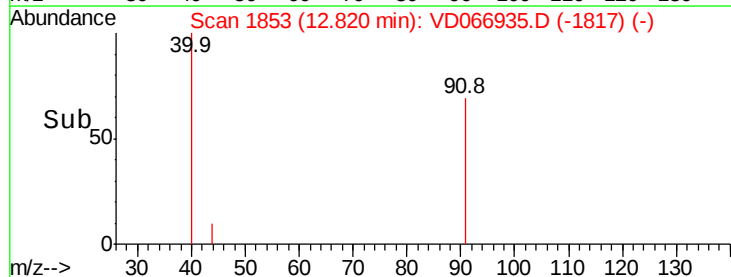
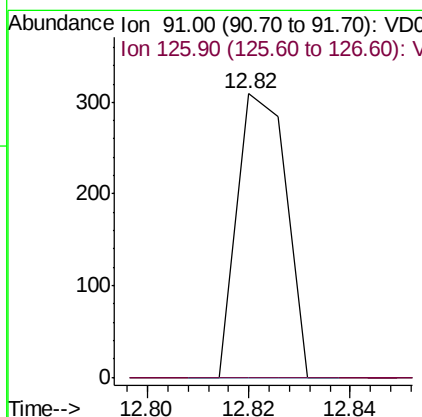
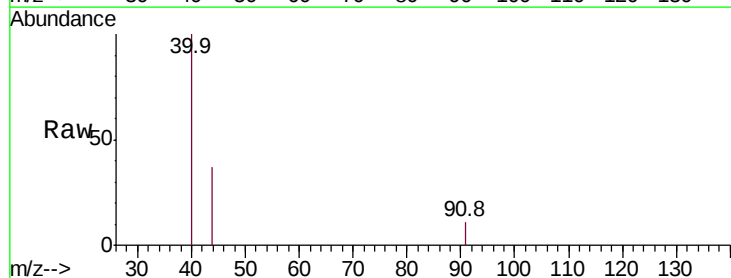
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-3-(3FT)

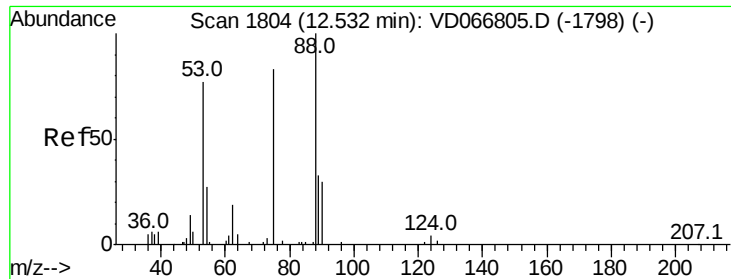
Tot Ion: 75 Resp: 1562
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#79
 2-Chlorotoluene
 Concen: 1.196 ug/l
 RT: 12.82 min Scan# 1853
 Delta R.T. -0.09 min
 Lab File: VD066935.D
 Acq: 29 Sep 2020 13:34

Tgt Ion: 91 Resp: 210
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.0 51.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 133.061 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD066935.D

Acq: 29 Sep 2020 13:34

Instrument :

MSVOA_D

ClientSampleId :

TP-3-(3FT)

Tot Ion: 75 Resp: 1562

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 38.1 57.1#

