

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092820\
 Data File : VD066916.D
 Acq On : 28 Sep 2020 16:32
 Operator : VA/SY
 Sample : L4173-09
 Misc : 4.24G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

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

Quant Time: Sep 29 00:57:49 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	7.99	168	2776	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	3804	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	3697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	1191	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	1814	66.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	133.52%	
35) Dibromofluoromethane	7.92	113	679	28.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	56.12%	
50) Toluene-d8	10.34	98	3898	47.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.54%	
62) 4-Bromofluorobenzene	12.63	95	1636	57.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.92%	

Target Compounds

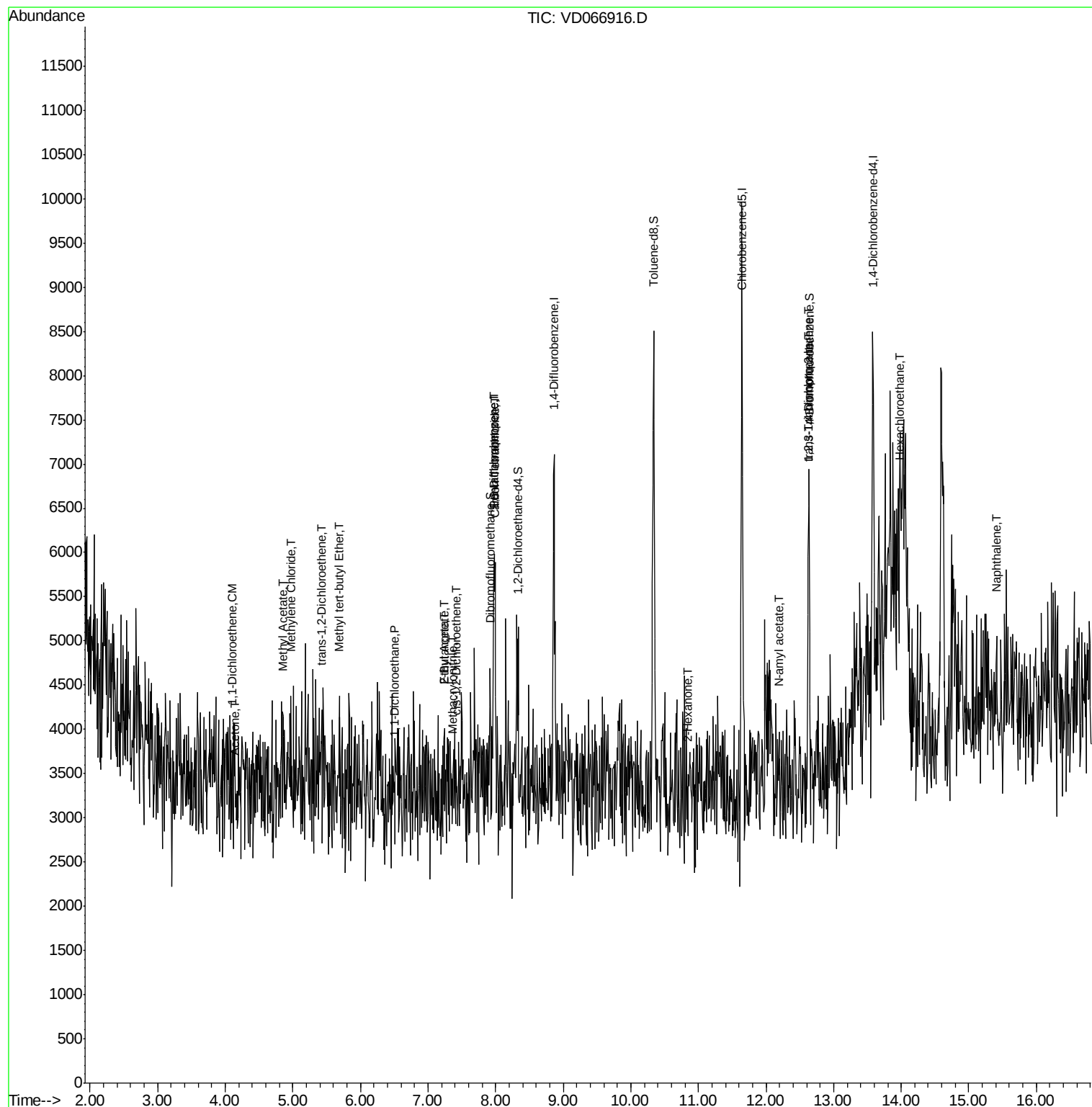
						Qvalue
12) 1,1-Dichloroethene	4.11	96	61	2.244	ug/l #	1
16) Acetone	4.15	43	155	26.892	ug/l #	43
18) Methyl Acetate	4.86	43	69	1.872	ug/l #	50
19) Methyl tert-butyl Ether	5.68	73	63	1.067	ug/l #	54
20) Methylene Chloride	4.97	84	228	1.707	ug/l #	7
21) trans-1,2-Dichloroethene	5.43	96	66	2.097	ug/l #	1
24) 1,1-Dichloroethane	6.50	63	65	1.184	ug/l #	82
25) 2-Butanone	7.24	43	94	13.571	ug/l #	46
27) cis-1,2-Dichloroethene	7.42	96	88	2.573	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	55	1.457	ug/l #	41
37) Ethyl Acetate	7.24	43	94	6.890	ug/l #	70
38) Carbon Tetrachloride	7.99	117	77	1.866	ug/l #	12
41) Methacrylonitrile	7.36	41	57	6.794	ug/l #	100
59) 2-Hexanone	10.84	43	62	6.898	ug/l #	25
74) N-amyl acetate	12.19	43	119	7.083	ug/l #	41
76) 1,2,3-Trichloropropane	12.63	75	677	68.591	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	677	171.609	ug/l #	10
90) Hexachloroethane	13.97	117	86	5.448	ug/l #	16
95) Naphthalene	15.41	128	71	1.953	ug/l #	69

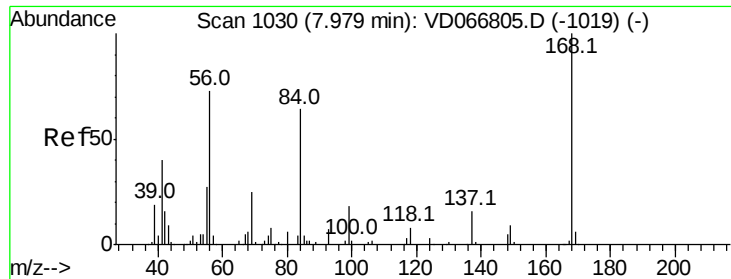
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 23 01:34:05 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Instrument :

MSVOA_D

ClientSampleId :

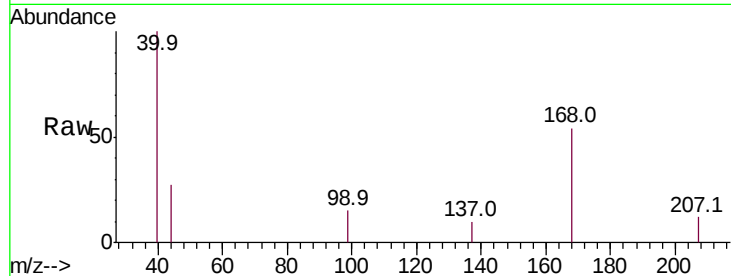
TP-3-(3FT)

Tot Ion:168 Resp: 2776

Ion Ratio Lower Upper

168 100

99 27.3 46.6 69.8#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

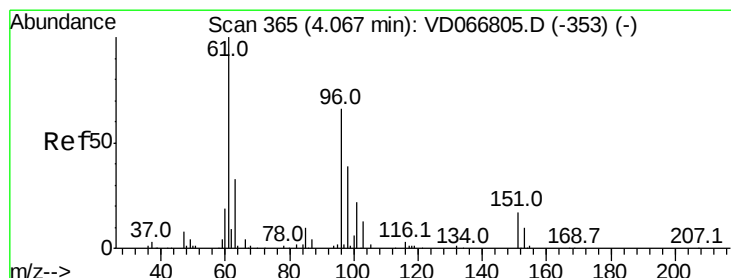
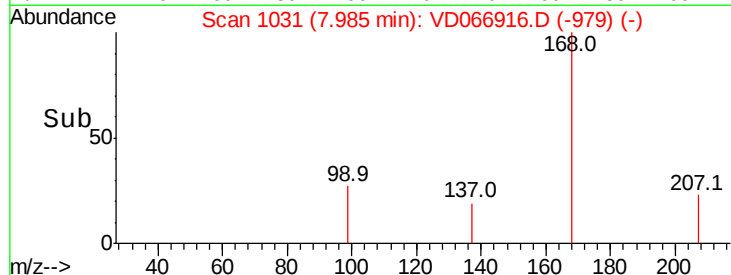
1500

1000

500

0

Time--> 7.90 7.95 8.00



#12

1,1-Dichloroethene

Concen: 2.244 ug/l

RT: 4.11 min Scan# 372

Delta R.T. 0.04 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

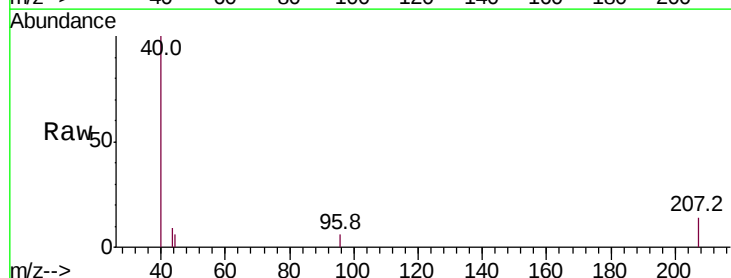
Tgt Ion: 96 Resp: 61

Ion Ratio Lower Upper

96 100

61 0.0 120.8 181.2#

98 0.0 47.7 71.5#



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

4.11

200

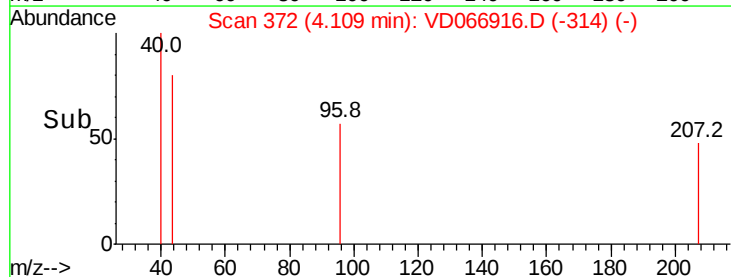
150

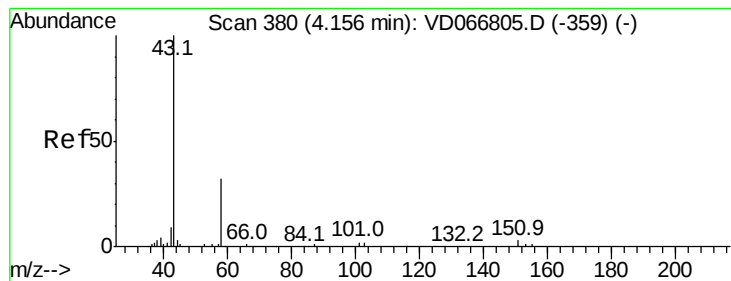
100

50

0

Time--> 4.09 4.10 4.11 4.12





#16

Acetone

Concen: 26.892 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Instrument :

MSVOA_D

ClientSampleId :

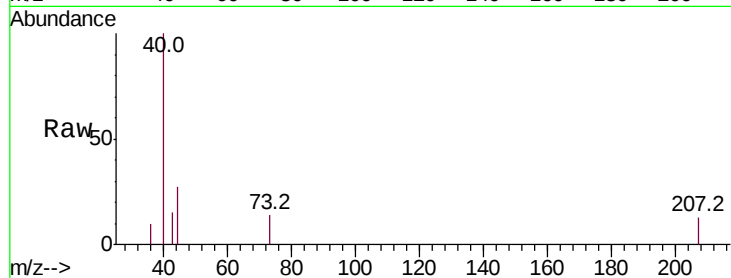
TP-3-(3FT)

Tot Ion: 43 Resp: 155

Ion Ratio Lower Upper

43 100

58 0.0 25.6 38.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.15

300

250

200

150

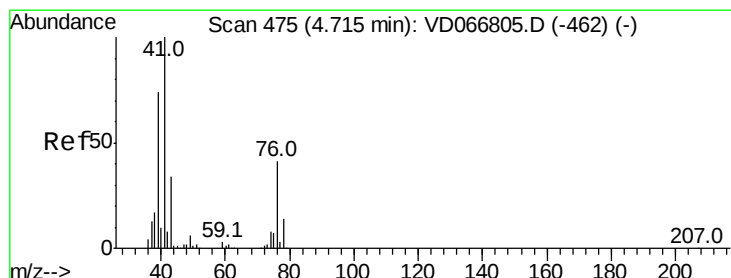
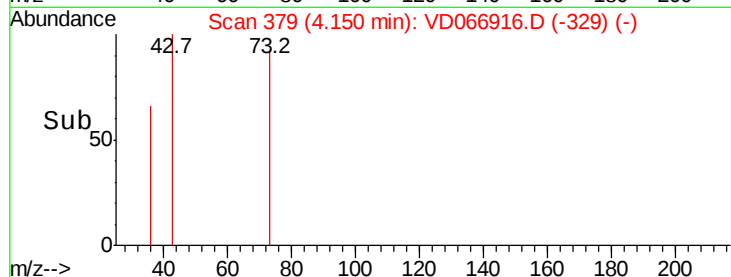
100

50

0

4.12 4.14 4.16

Time-->



#18

Methyl Acetate

Concen: 1.872 ug/l

RT: 4.86 min Scan# 500

Delta R.T. 0.15 min

Lab File: VD066916.D

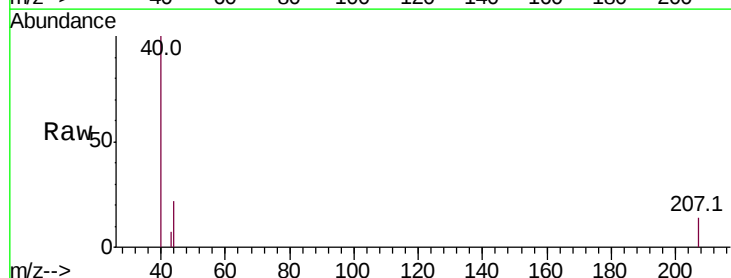
Acq: 28 Sep 2020 16:32

Tgt Ion: 43 Resp: 69

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

4.86

200

150

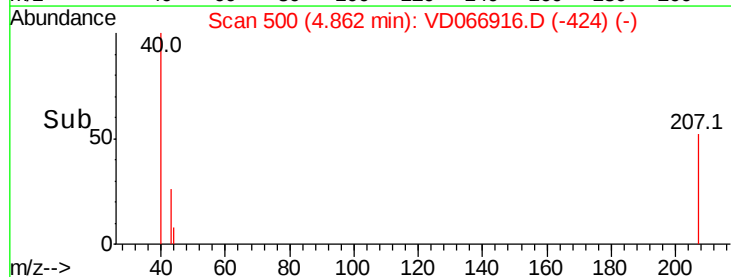
100

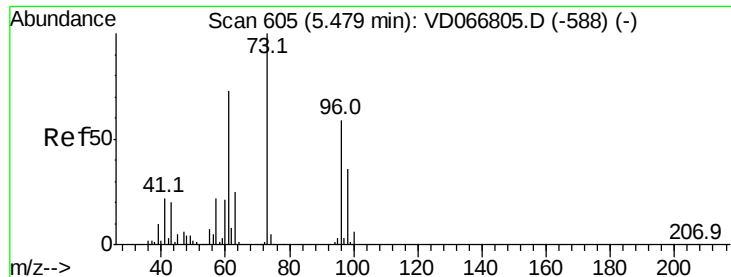
50

0

4.84 4.85 4.86 4.87 4.88

Time-->





#19

Methyl tert-butyl Ether

Concen: 1.067 ug/l

RT: 5.68 min Scan# 639

Delta R.T. 0.20 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Instrument :

MSVOA_D

ClientSampleId :

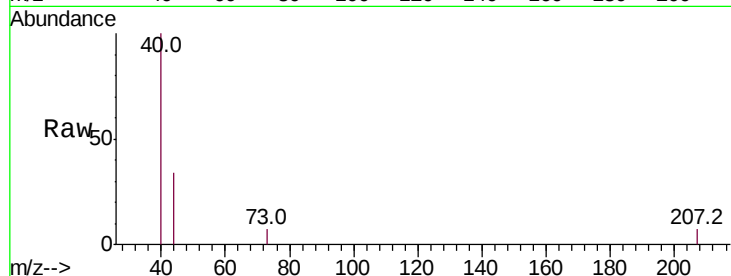
TP-3-(3FT)

Tot Ion: 73 Resp: 63

Ion Ratio Lower Upper

73 100

57 0.0 17.4 26.2#



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.68

200

150

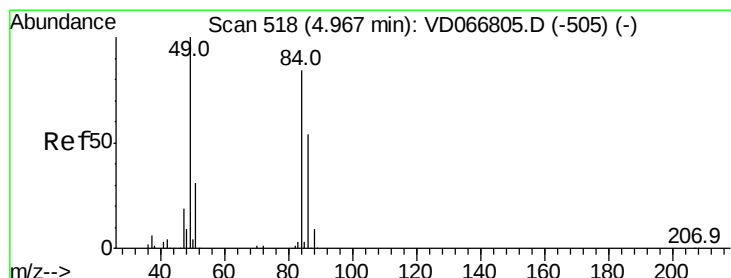
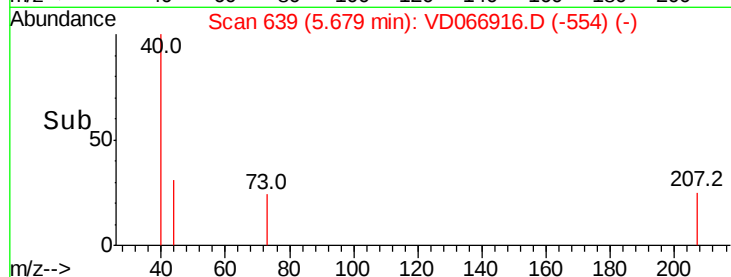
100

50

0

5.66 5.67 5.68 5.69

Time-->



#20

Methylene Chloride

Concen: 1.707 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.00 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Tgt Ion: 84 Resp: 228

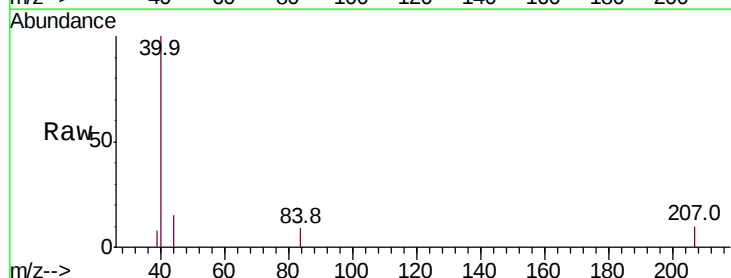
Ion Ratio Lower Upper

84 100

49 0.0 95.4 143.2#

51 0.0 29.7 44.5#

86 0.0 51.4 77.2#



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

300

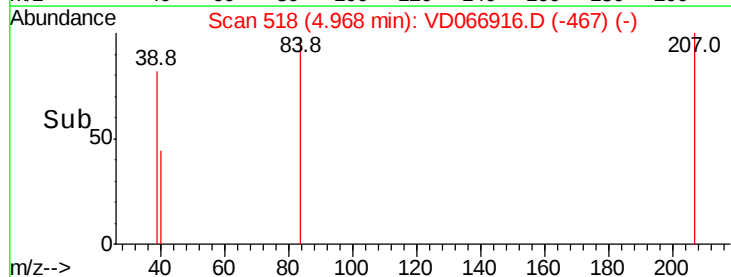
200

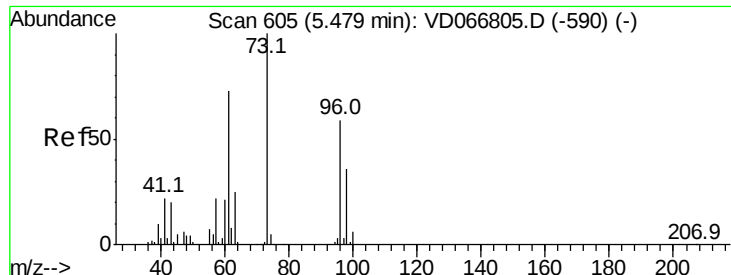
100

0

4.94 4.96 4.98

Time-->





#21

trans-1,2-Dichloroethene

Concen: 2.097 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.05 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Instrument :

MSVOA_D

ClientSampleId :

TP-3-(3FT)

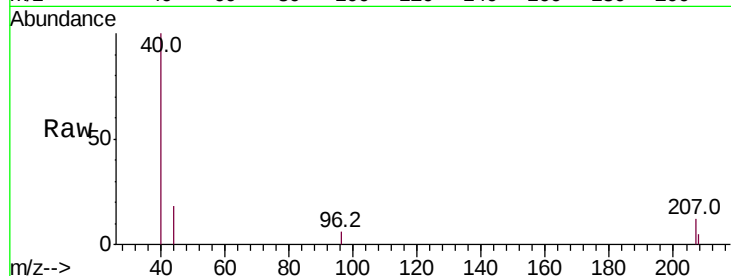
Tot Ion: 96 Resp: 66

Ion Ratio Lower Upper

96 100

61 0.0 98.9 148.3#

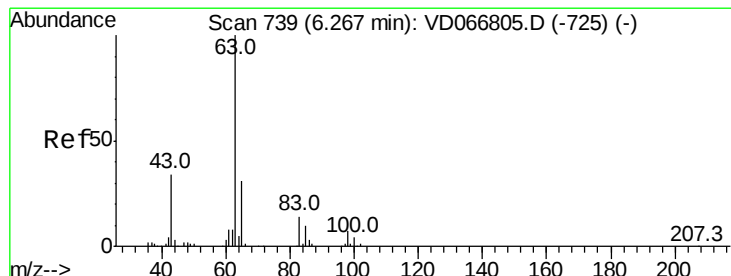
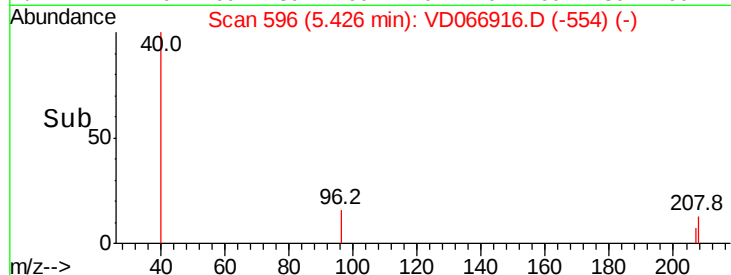
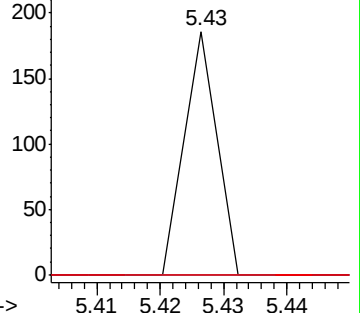
98 0.0 48.4 72.6#



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



#24

1,1-Dichloroethane

Concen: 1.184 ug/l

RT: 6.50 min Scan# 779

Delta R.T. 0.24 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

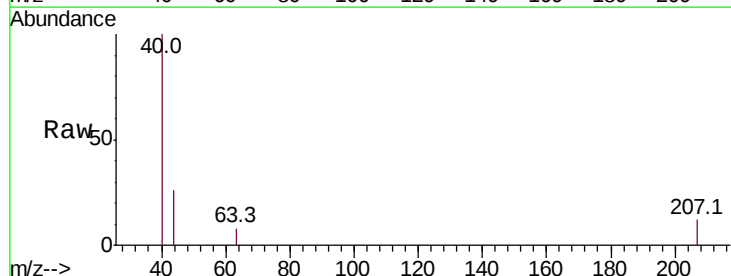
Tgt Ion: 63 Resp: 65

Ion Ratio Lower Upper

63 100

98 0.0 3.7 11.1#

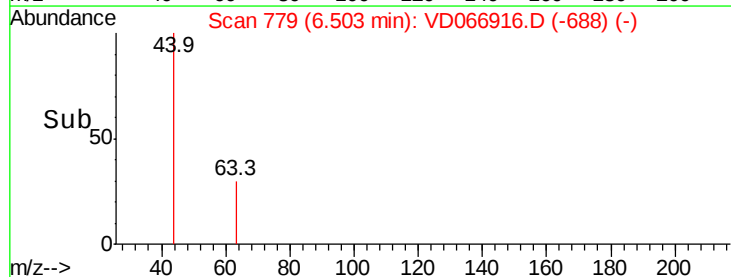
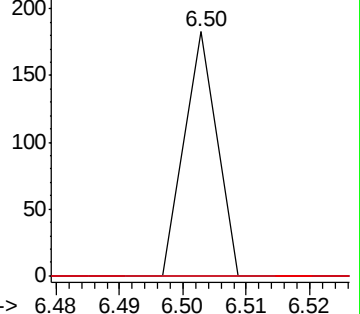
100 0.0 1.8 5.5#

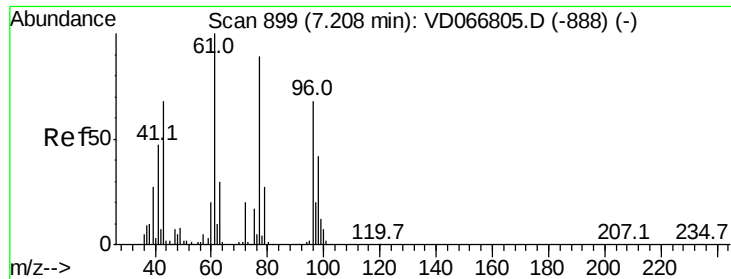


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 13.571 ug/l

RT: 7.24 min Scan# 905

Delta R.T. 0.04 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Instrument :

MSVOA_D

ClientSampleId :

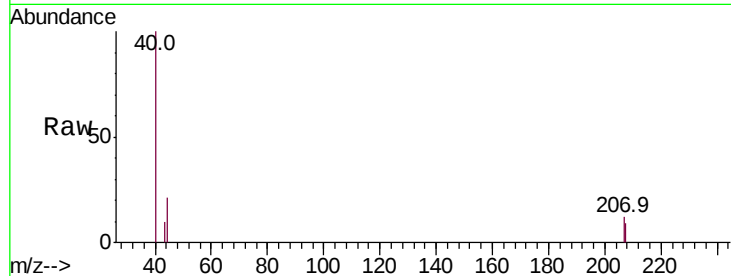
TP-3-(3FT)

Tot Ion: 43 Resp: 94

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

7.24

250

200

150

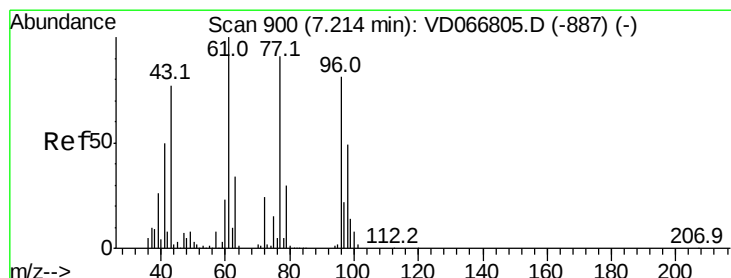
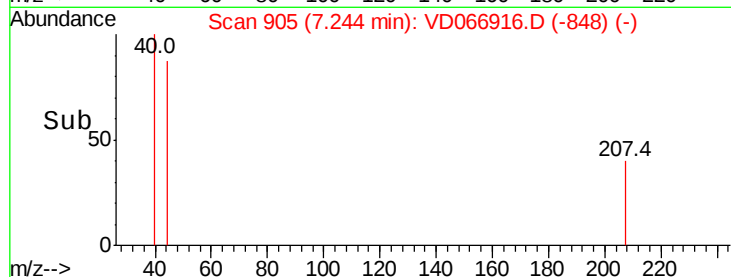
100

50

0

7.23 7.24 7.25 7.26

Time-->



#27

cis-1,2-Dichloroethene

Concen: 2.573 ug/l

RT: 7.42 min Scan# 935

Delta R.T. 0.21 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

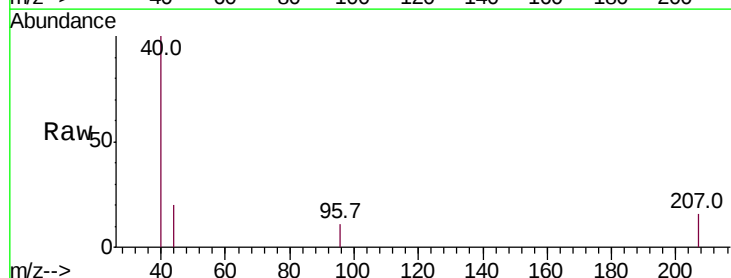
Tgt Ion: 96 Resp: 88

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

7.42

300

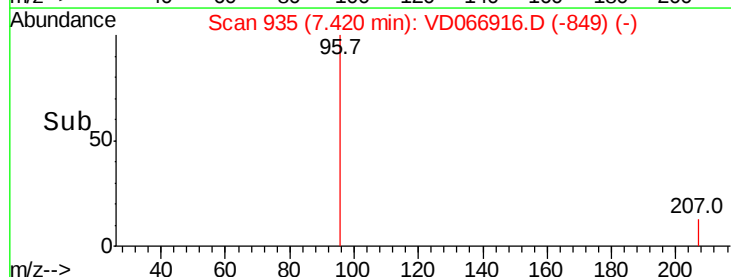
200

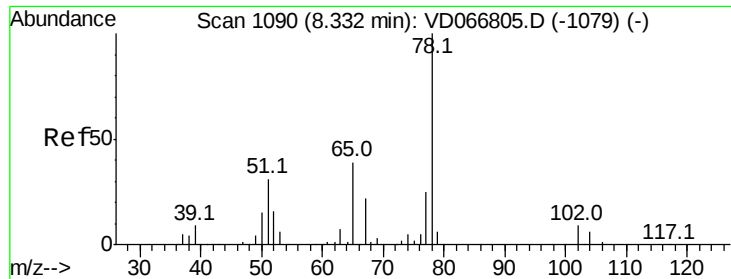
100

0

7.40 7.41 7.42 7.43 7.44

Time-->





#33

1,2-Dichloroethane-d4

Concen: 66.764 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Instrument :

MSVOA_D

ClientSampleId :

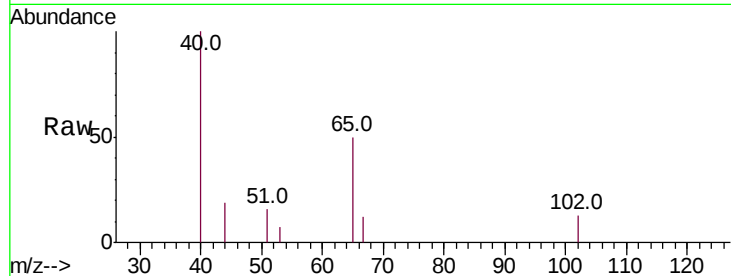
TP-3-(3FT)

Tot Ion: 65 Resp: 1814

Ion Ratio Lower Upper

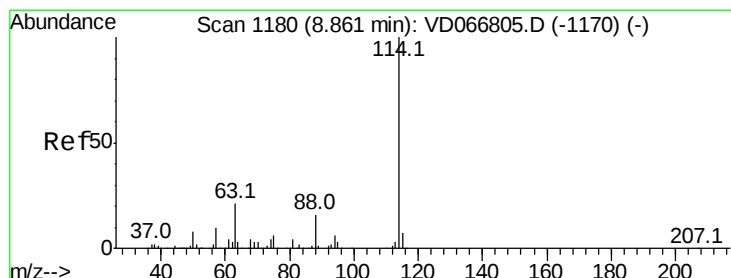
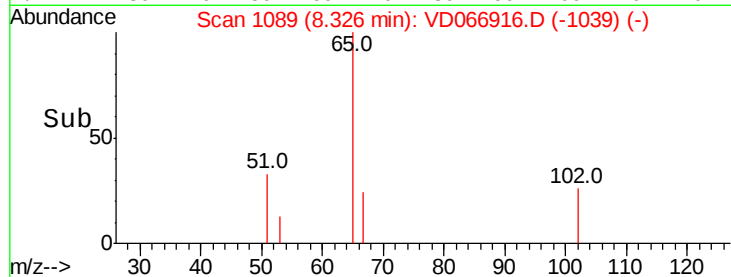
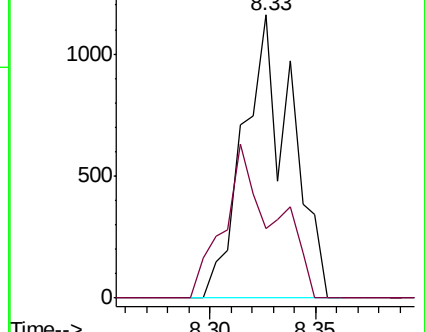
65 100

67 56.7 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: VD066916.D

Acq: 28 Sep 2020 16:32

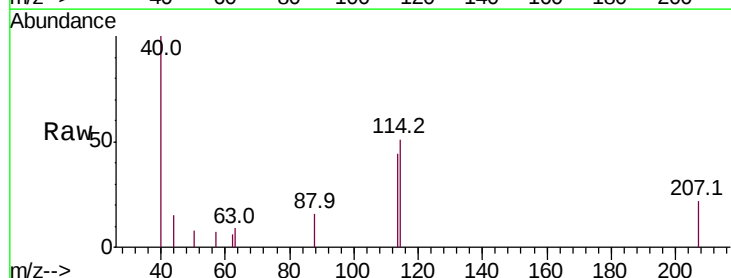
Tgt Ion: 114 Resp: 3804

Ion Ratio Lower Upper

114 100

63 9.9 0.0 42.6

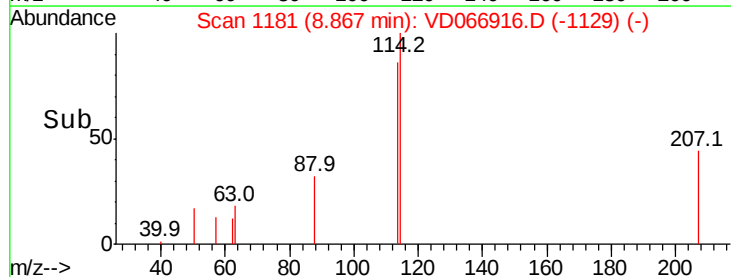
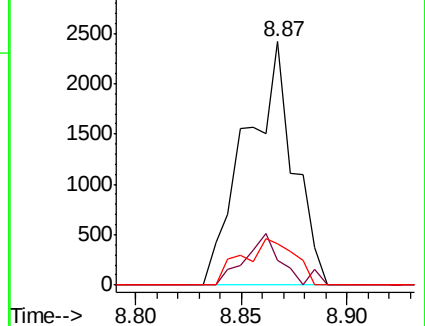
88 16.9 0.0 32.6

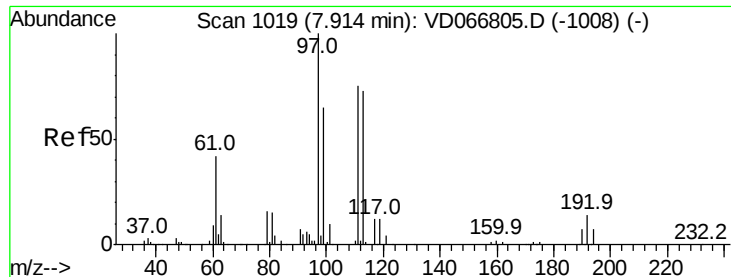


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 28.057 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Instrument :

MSVOA_D

ClientSampleId :

TP-3-(3FT)

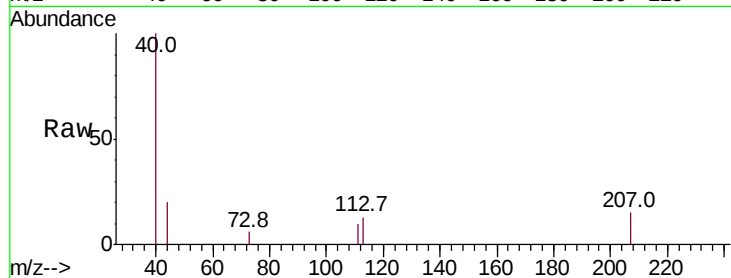
Tot Ion:113 Resp: 679

Ion Ratio Lower Upper

113 100

111 0.0 81.8 122.8#

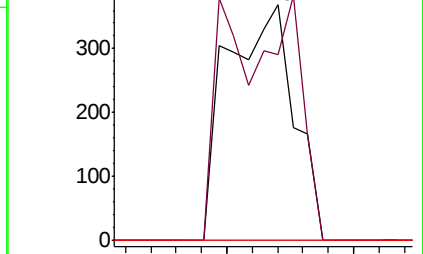
192 0.0 14.4 21.6#



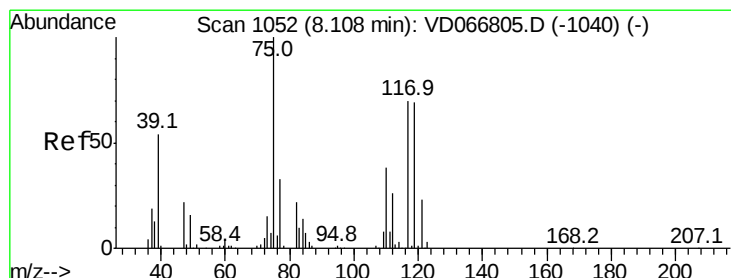
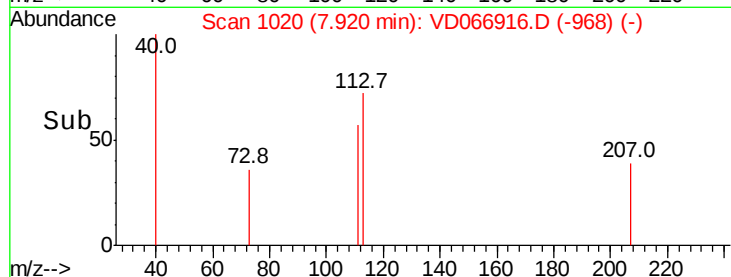
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time-->



#36

1,1-Dichloropropene

Concen: 1.457 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

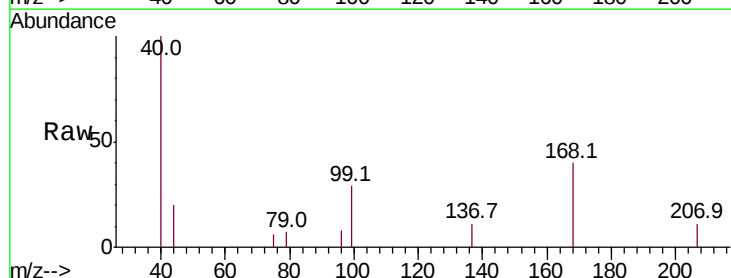
Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

110 0.0 17.9 53.8#

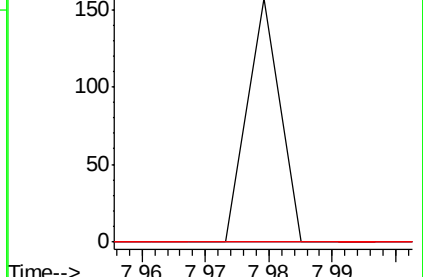
77 0.0 25.0 37.6#



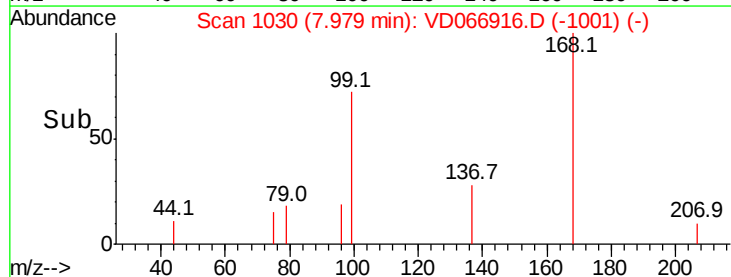
Abundance Ion 74.90 (74.60 to 75.60): V

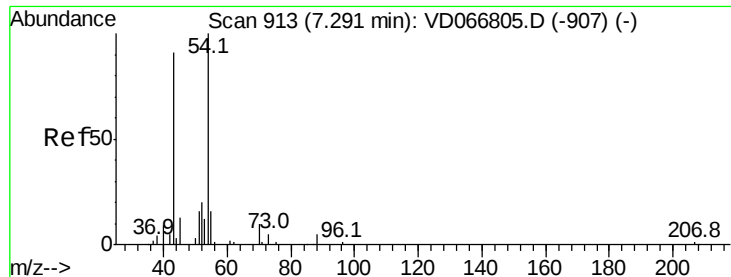
Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



Time-->

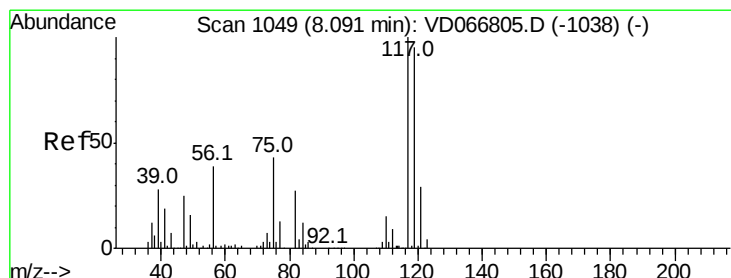
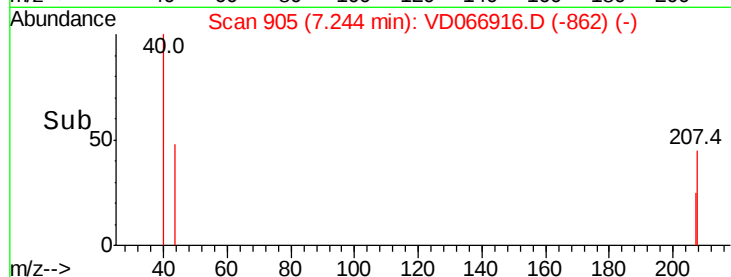
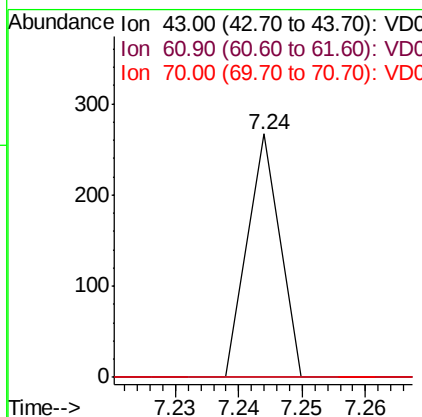
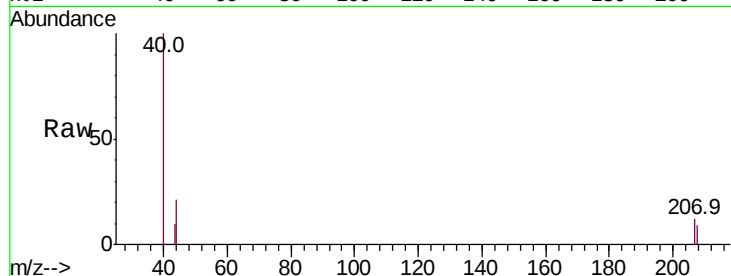




#37
Ethyl Acetate
Concen: 6.890 ug/l
RT: 7.24 min Scan# 905
Delta R.T. -0.05 min
Lab File: VD066916.D
Acq: 28 Sep 2020 16:32

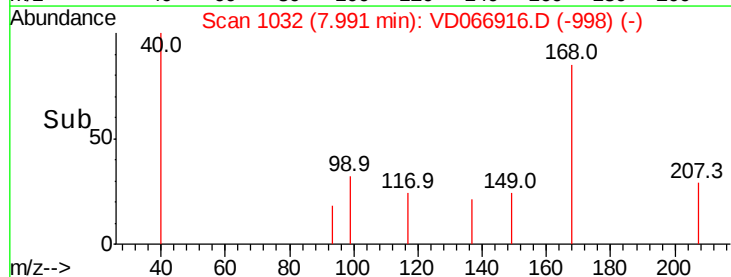
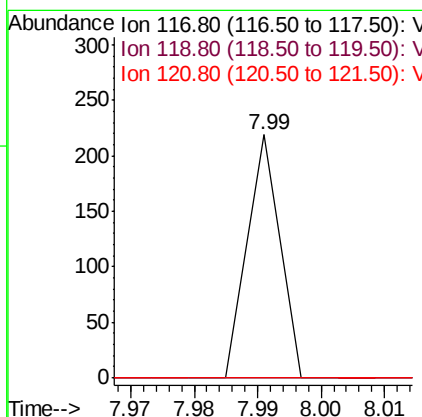
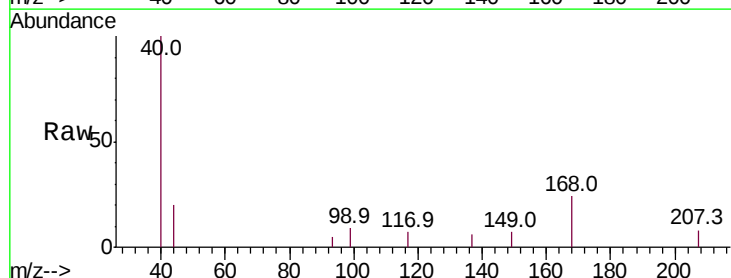
Instrument :
MSVOA_D
ClientSampleId :
TP-3-(3FT)

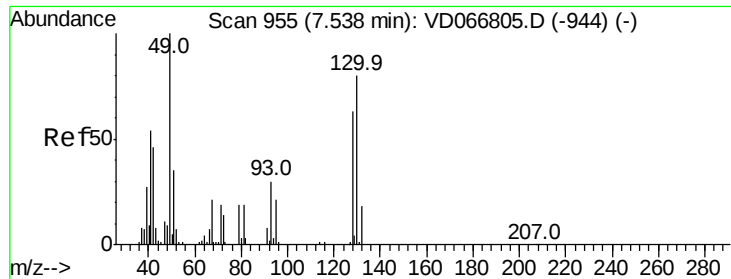
Tot Ion: 43 Resp: 94
Ion Ratio Lower Upper
43 100
61 0.0 9.8 14.8#
70 0.0 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 1.866 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. -0.10 min
Lab File: VD066916.D
Acq: 28 Sep 2020 16:32

Tgt Ion: 117 Resp: 77
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.8#
121 0.0 23.4 35.0#

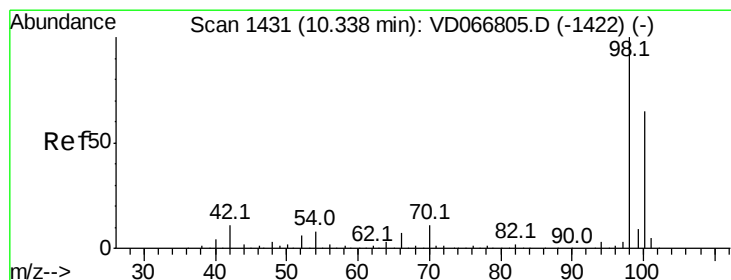
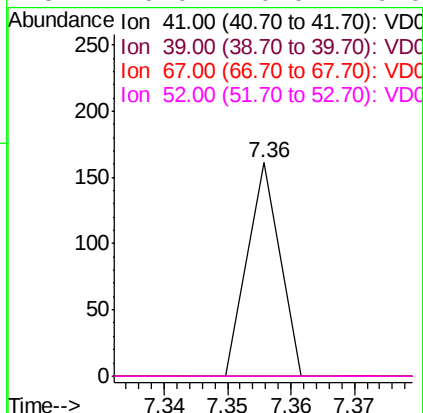
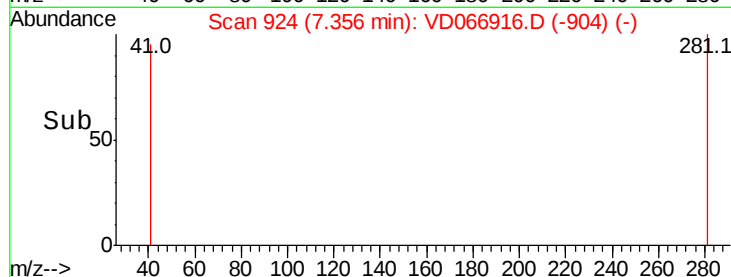
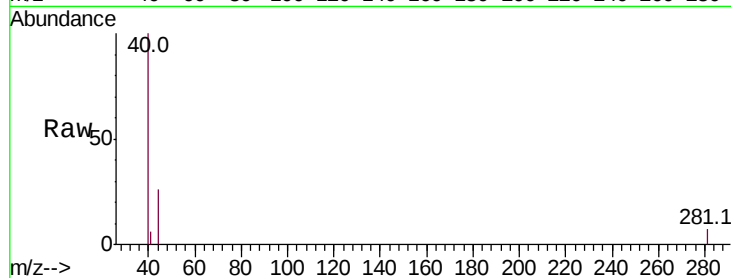




#41
Methacrylonitrile
Concen: 6.794 ug/l
RT: 7.36 min Scan# 924
Delta R.T. -0.18 min
Lab File: VD066916.D
Acq: 28 Sep 2020 16:32

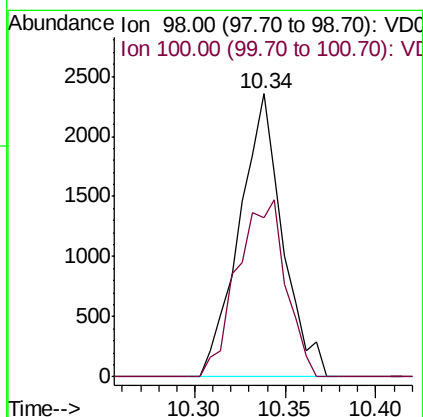
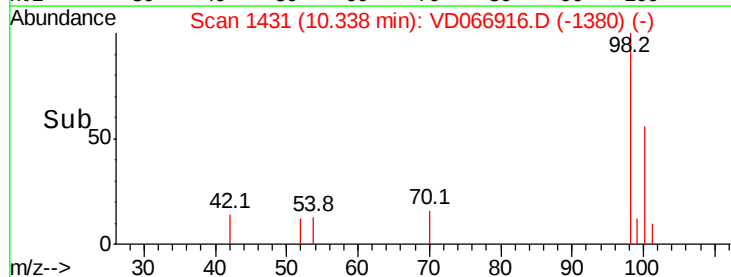
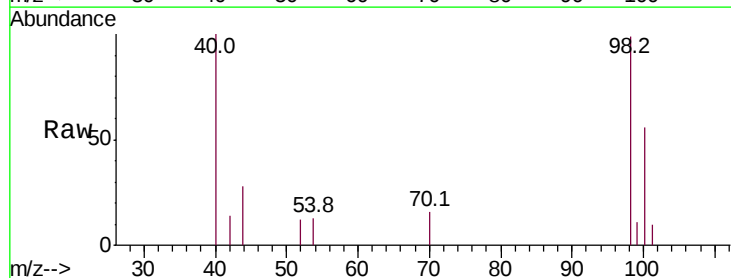
Instrument :
MSVOA_D
ClientSampleId :
TP-3-(3FT)

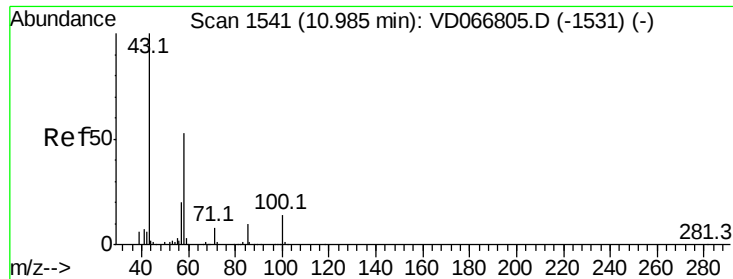
Tot Ion:	41	Resp:	57
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#50
Toluene-d8
Concen: 47.273 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD066916.D
Acq: 28 Sep 2020 16:32

Tgt Ion:	98	Resp:	3898
Ion	Ratio	Lower	Upper
98	100		
100	70.4	52.2	78.2

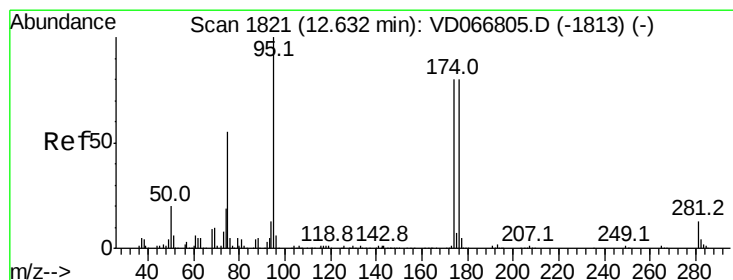
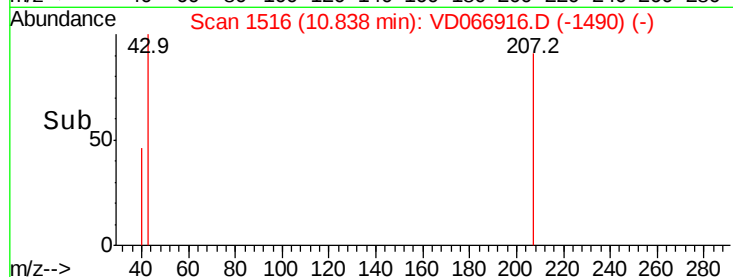
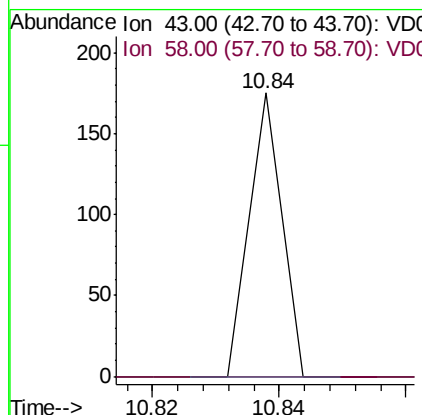
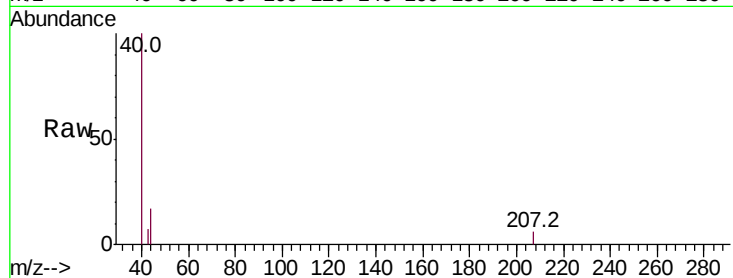




#59
2-Hexanone
Concen: 6.898 ug/l
RT: 10.84 min Scan# 1516
Delta R.T. -0.15 min
Lab File: VD066916.D
Acq: 28 Sep 2020 16:32

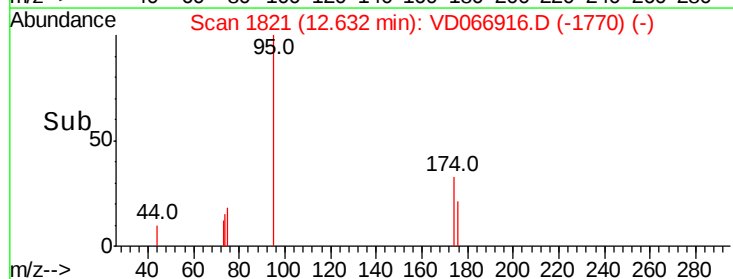
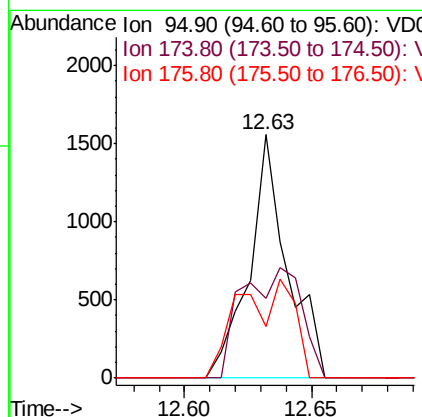
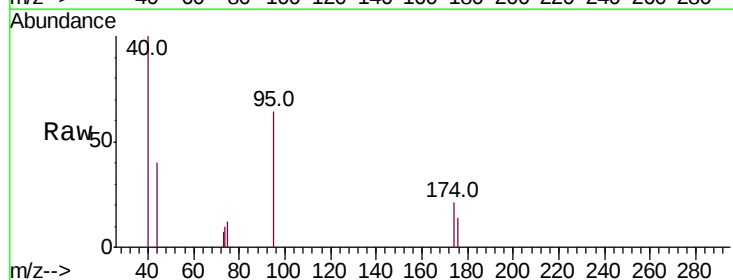
Instrument :
MSVOA_D
ClientSampleId :
TP-3-(3FT)

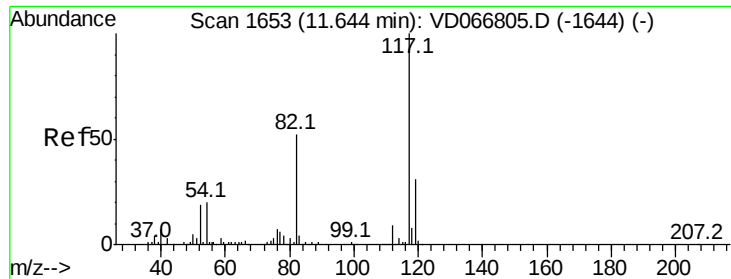
Tot Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
58 0.0 27.0 80.8#



#62
4-Bromofluorobenzene
Concen: 57.957 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD066916.D
Acq: 28 Sep 2020 16:32

Tgt Ion: 95 Resp: 1636
Ion Ratio Lower Upper
95 100
174 70.7 0.0 159.8
176 34.4 0.0 154.4

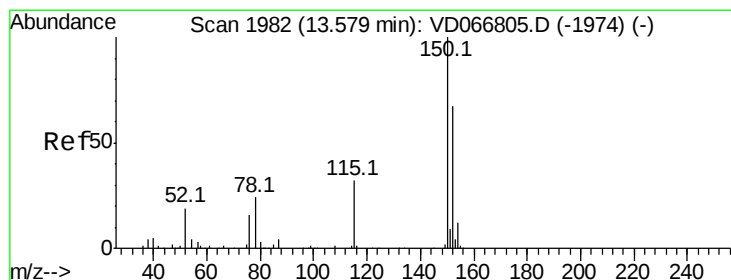
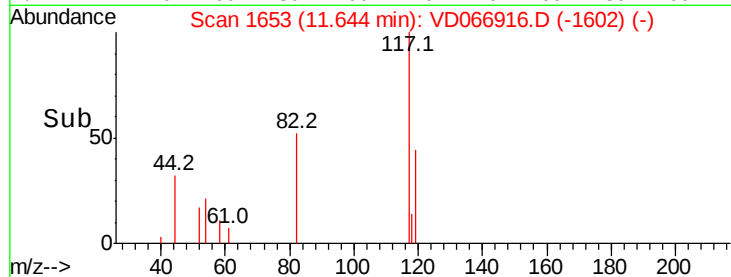
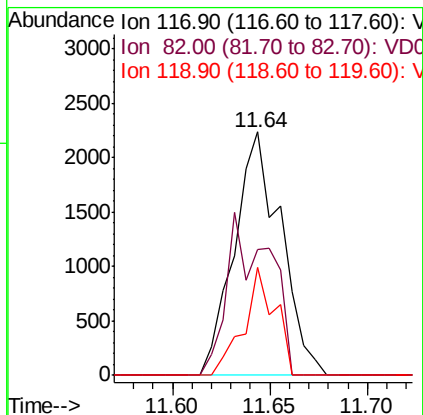
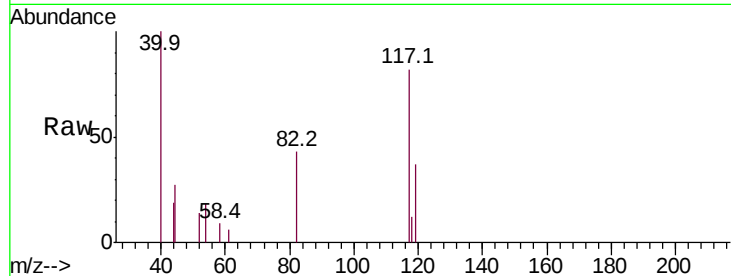




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066916.D
Acq: 28 Sep 2020 16:32

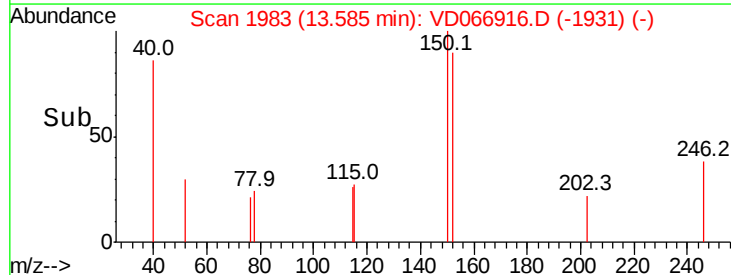
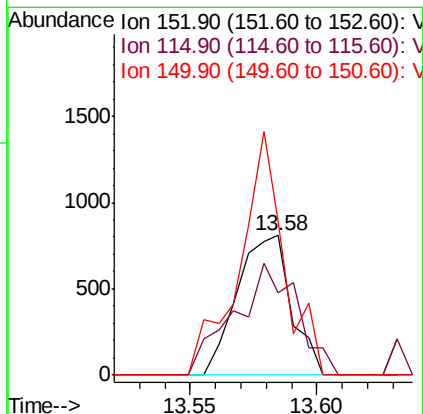
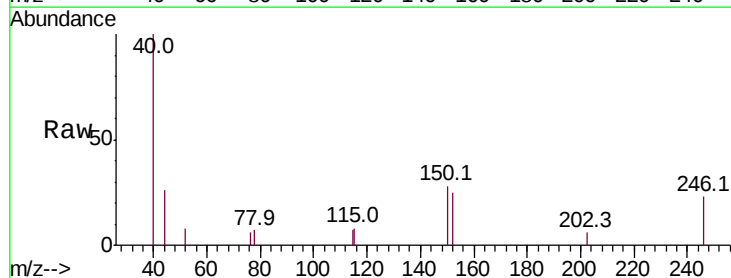
Instrument :
MSVOA_D
ClientSampleId :
TP-3-(3FT)

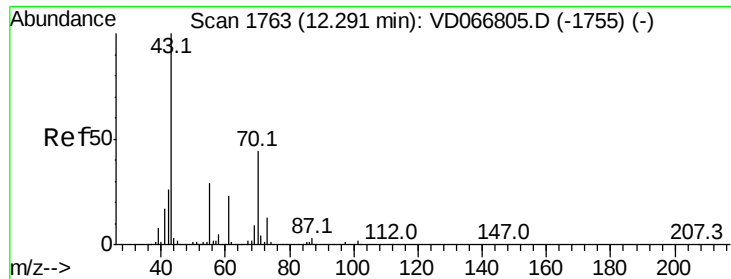
Tot Ion:117 Resp: 3697
Ion Ratio Lower Upper
117 100
82 51.8 41.8 62.6
119 44.4 24.6 37.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD066916.D
Acq: 28 Sep 2020 16:32

Tgt Ion:152 Resp: 1191
Ion Ratio Lower Upper
152 100
115 93.4 30.3 91.0#
150 144.0 0.0 346.2





#74

N-amvl acetate

Concen: 7.083 ug/l

RT: 12.19 min Scan# 1746

Delta R.T. -0.10 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Instrument :

MSVOA_D

ClientSampleId :

TP-3-(3FT)

Tot Ion: 43 Resp: 119

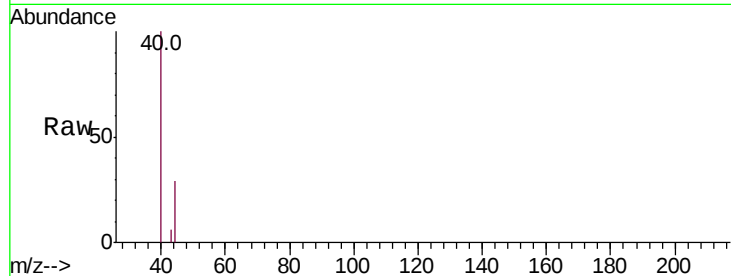
Ion Ratio Lower Upper

43 100

70 0.0 36.1 54.1#

55 0.0 21.8 32.8#

61 0.0 19.0 28.4#

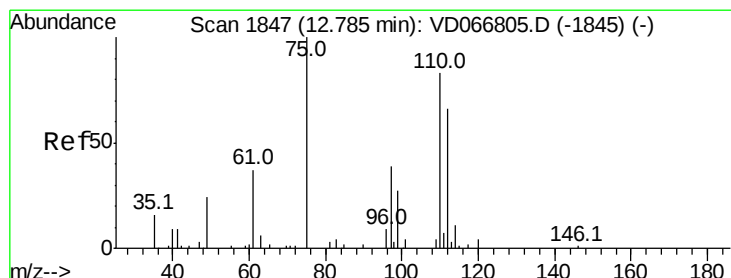
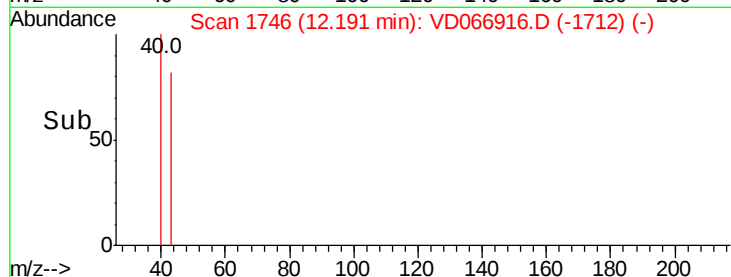
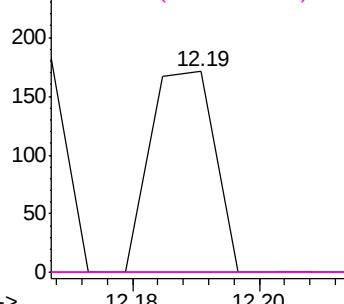


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 68.591 ug/l

RT: 12.63 min Scan# 1820

Delta R.T. -0.16 min

Lab File: VD066916.D

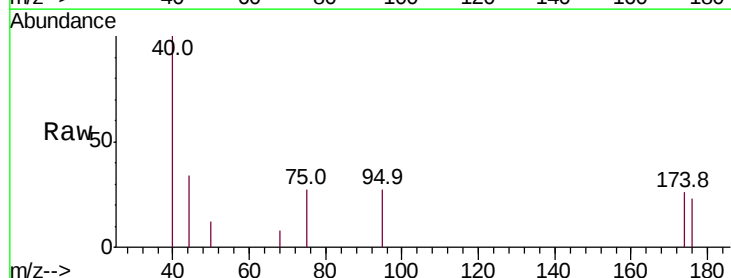
Acq: 28 Sep 2020 16:32

Tgt Ion: 75 Resp: 677

Ion Ratio Lower Upper

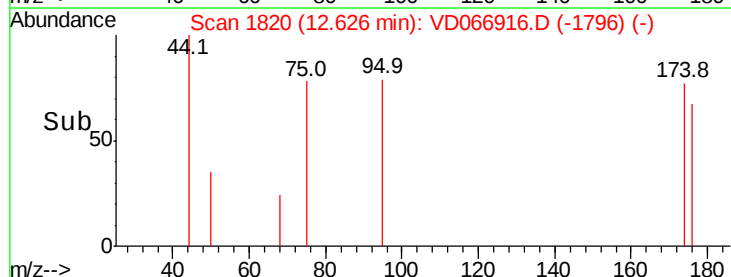
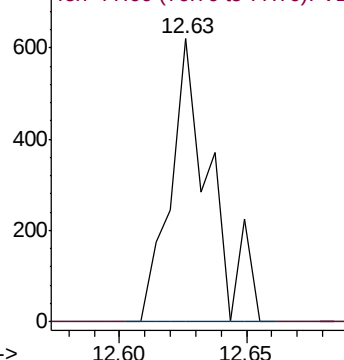
75 100

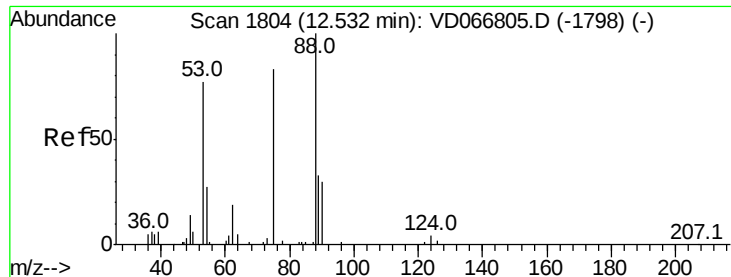
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 171.609 ug/l

RT: 12.63 min Scan# 1820

Delta R.T. 0.09 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Instrument :

MSVOA_D

ClientSampleId :

TP-3-(3FT)

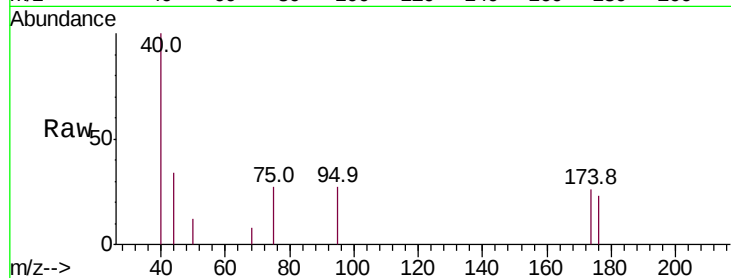
Tot Ion: 75 Resp: 677

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

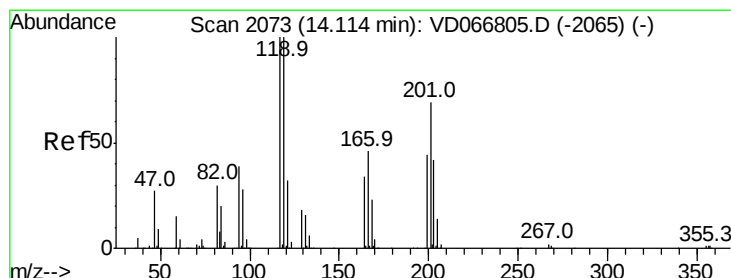
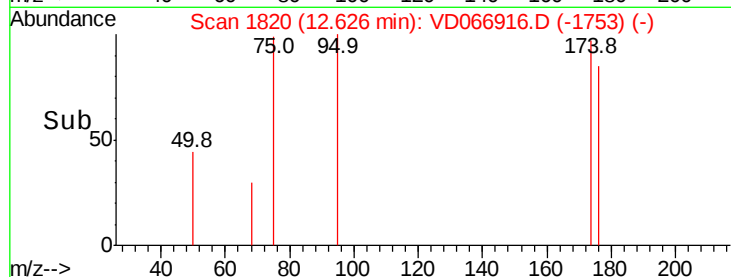
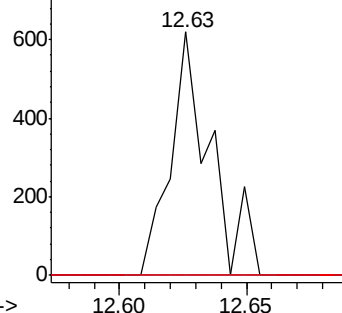
89 0.0 38.1 57.1#



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: 5.448 ug/l

RT: 13.97 min Scan# 2048

Delta R.T. -0.15 min

Lab File: VD066916.D

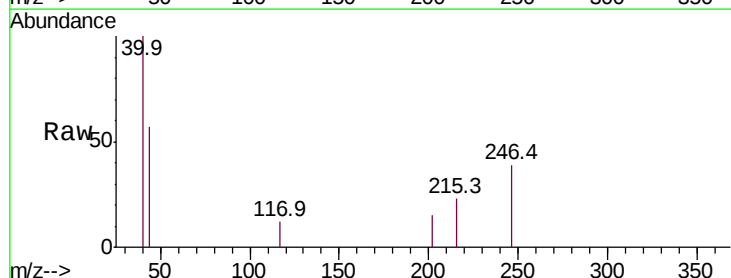
Acq: 28 Sep 2020 16:32

Tgt Ion: 117 Resp: 86

Ion Ratio Lower Upper

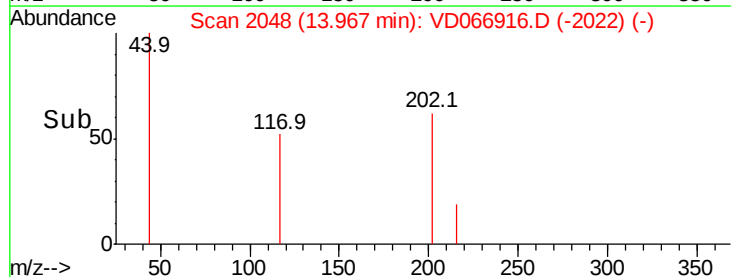
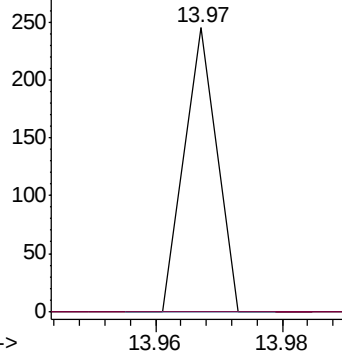
117 100

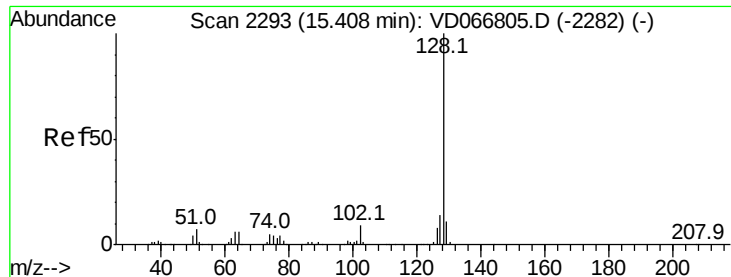
201 0.0 33.7 101.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 1.953 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD066916.D

Acq: 28 Sep 2020 16:32

Instrument :

MSVOA_D

ClientSampleId :

TP-3-(3FT)

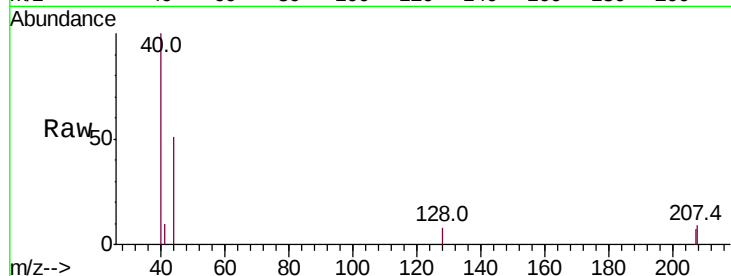
Tot Ion:128 Resp: 71

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.9 13.3#



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

