

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
 Data File : VD062430.D
 Acq On : 16 May 2019 21:11
 Operator : FY/SY
 Sample : K2866-07
 Misc : 5.64g/5mL/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-COMP-3

Quant Time: May 17 02:31:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	11560	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.21	114	20289	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	17113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	9983	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	8563	79.71	ug/l	0.02
Spiked Amount			Recovery	=	159.42%	
35) Dibromofluoromethane	6.92	113	6952	41.30	ug/l	0.03
Spiked Amount			Recovery	=	82.60%	
50) Toluene-d8	10.42	98	15172	37.38	ug/l	0.02
Spiked Amount			Recovery	=	74.76%	
62) 4-Bromofluorobenzene	13.55	95	8011	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	

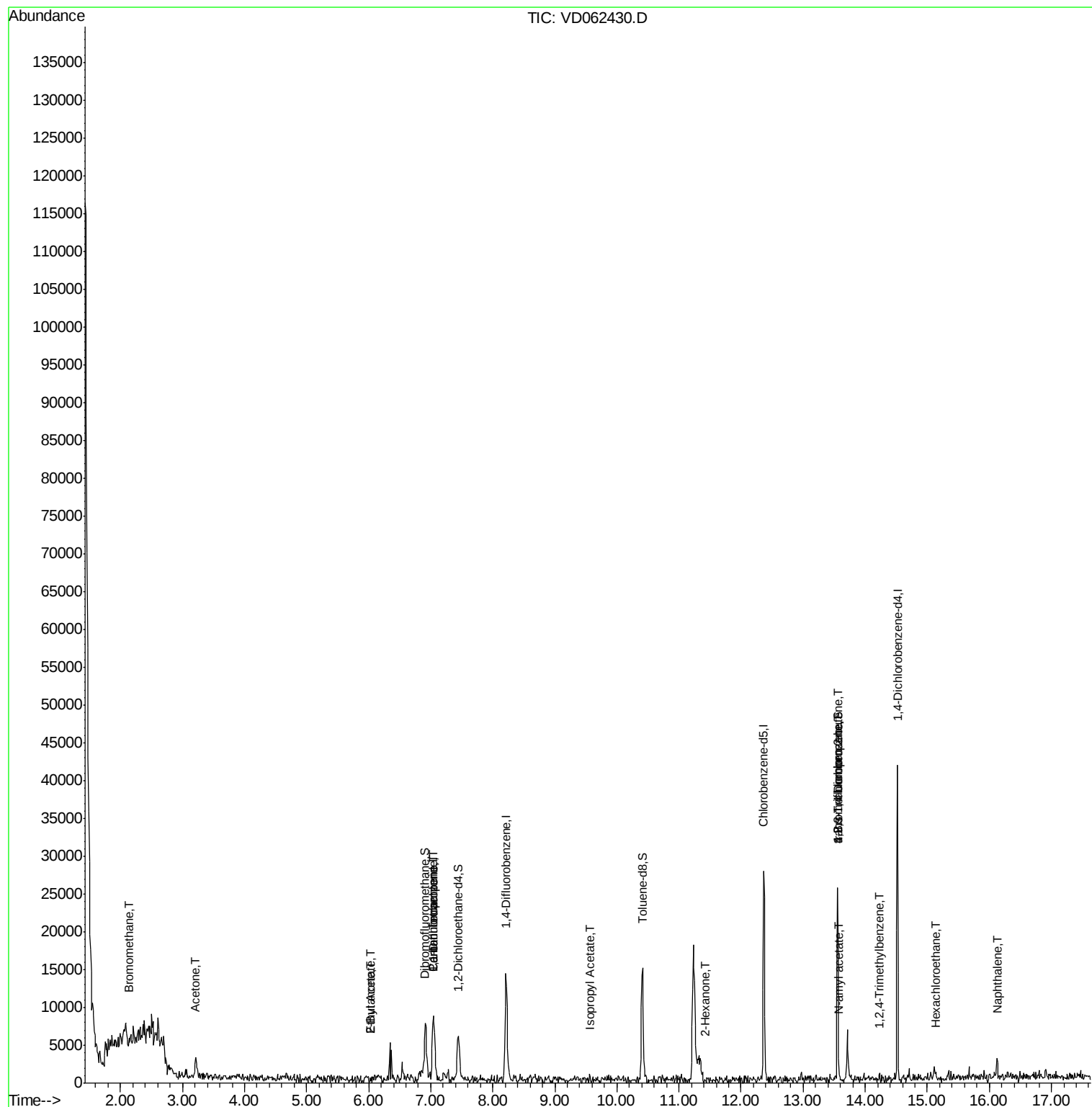
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	230	12.502	ug/l #	12
16) Acetone	3.21	43	4302	190.955	ug/l	94
25) 2-Butanone	6.03	43	210	8.546	ug/l #	56
36) 1,1-Dichloropropene	7.04	75	239	1.437	ug/l #	40
37) Ethyl Acetate	6.03	43	210	2.977	ug/l #	64
38) Carbon Tetrachloride	7.05	117	1192	5.177	ug/l #	12
43) Isopropyl Acetate	9.56	43	183	1.829	ug/l #	43
59) 2-Hexanone	11.43	43	221	4.662	ug/l #	27
74) N-amyl acetate	13.58	43	381	2.428	ug/l #	49
76) 1,2,3-Trichloropropane	13.55	75	2858	24.090	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.55	75	3704	110.591	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.23	105	550	1.088	ug/l #	30
90) Hexachloroethane	15.14	117	243	1.611	ug/l #	20
95) Naphthalene	16.12	128	2429	9.485	ug/l #	68

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

Instrument :

MSVOA_D

ClientSampleId :

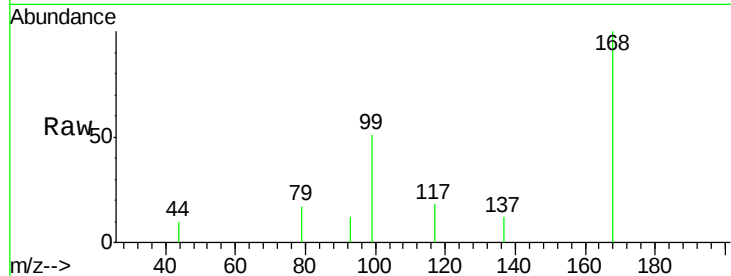
RO-COMP-3

Tot Ion:168 Resp: 11560

Ion Ratio Lower Upper

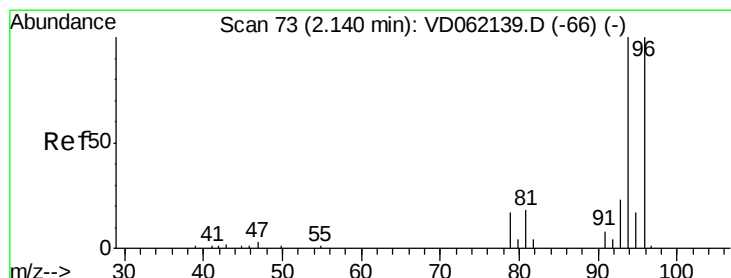
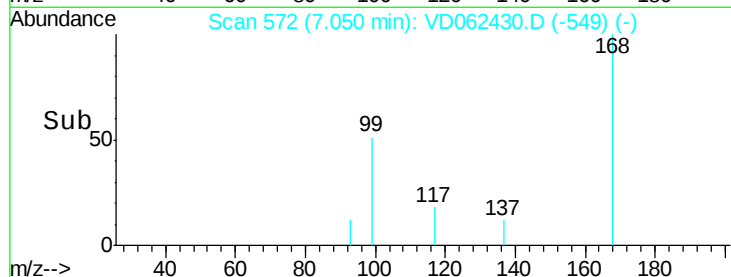
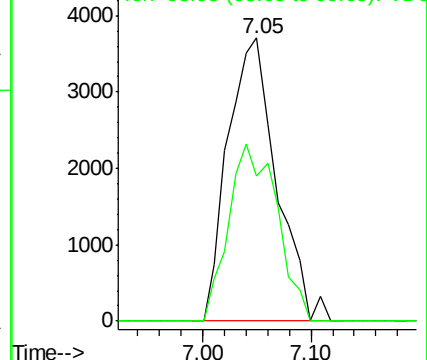
168 100

99 51.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 12.502 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

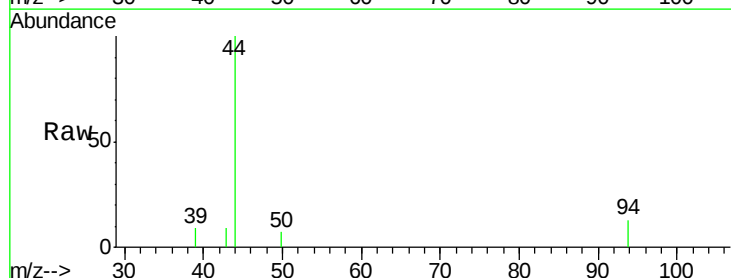
Tgt Ion: 94 Resp: 230

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

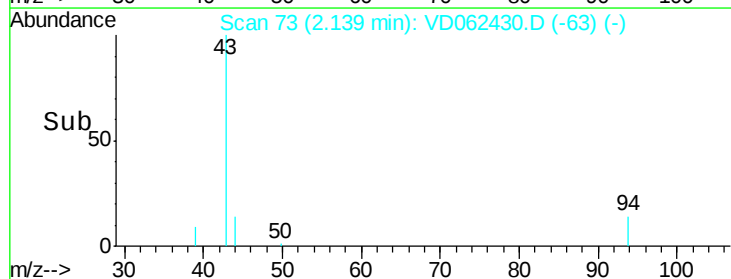
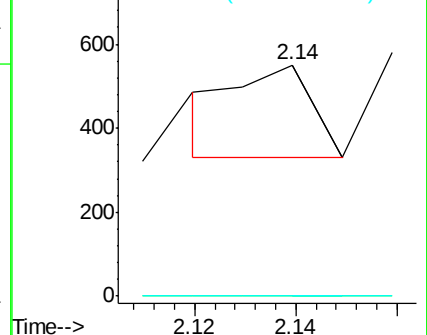
93 0.0 18.5 27.7#



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





#16

Acetone

Concen: 190.955 ug/l

RT: 3.21 min Scan# 182

Delta R.T. 0.02 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

Instrument :

MSVOA_D

ClientSampleId :

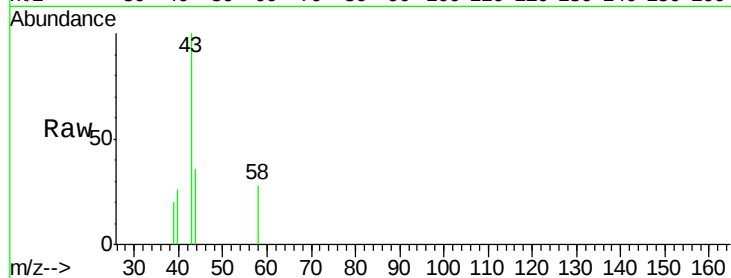
RO-COMP-3

Tot Ion: 43 Resp: 4302

Ion Ratio Lower Upper

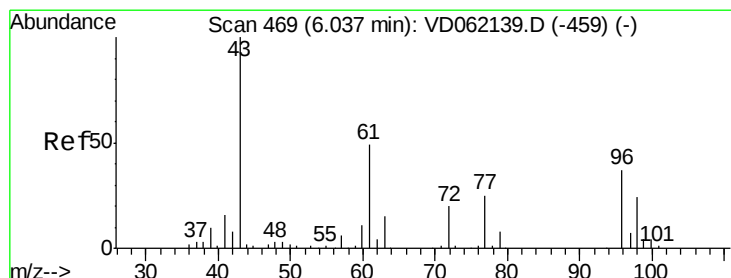
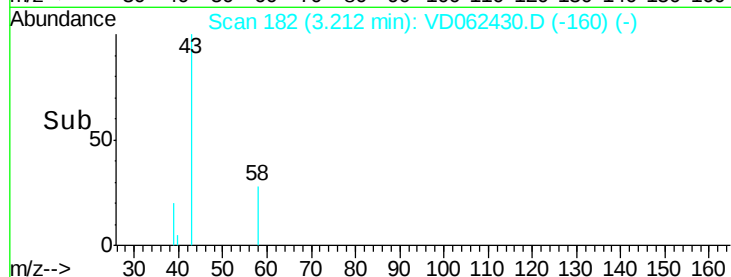
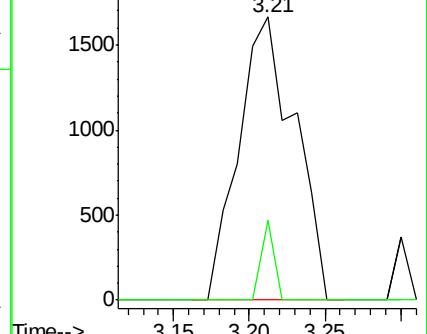
43 100

58 28.1 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#25

2-Butanone

Concen: 8.546 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD062430.D

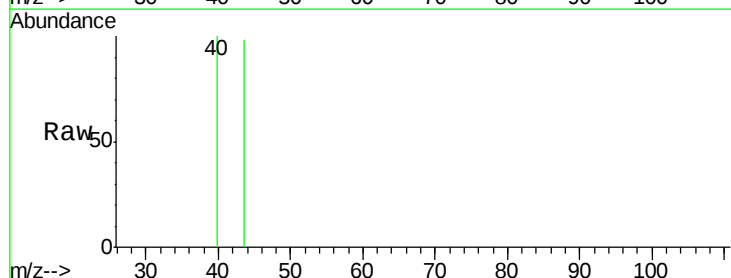
Acq: 16 May 2019 21:11

Tgt Ion: 43 Resp: 210

Ion Ratio Lower Upper

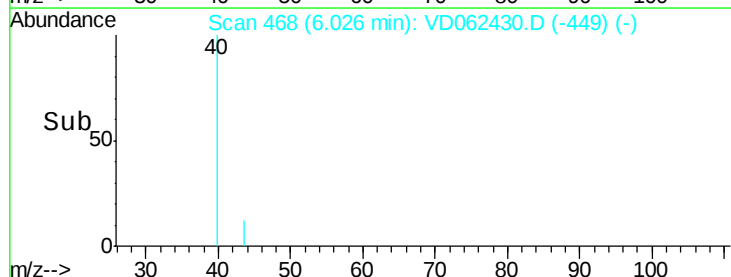
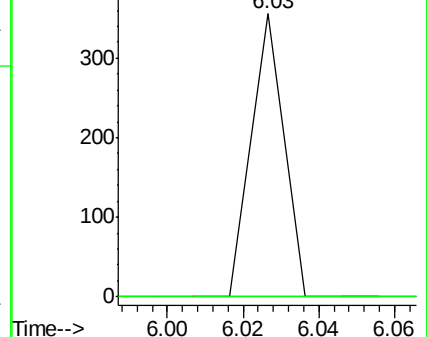
43 100

72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 79.709 ug/l

RT: 7.44 min Scan# 612

Delta R.T. 0.02 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

Instrument :

MSVOA_D

ClientSampleId :

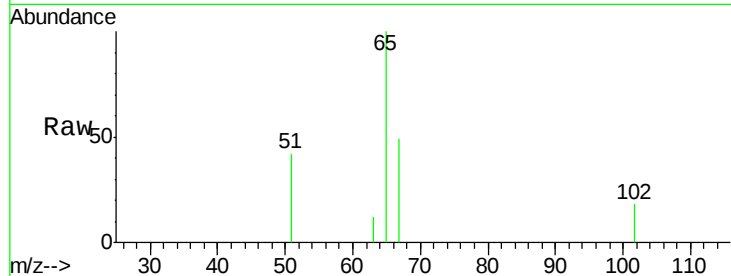
RO-COMP-3

Tot Ion: 65 Resp: 8563

Ion Ratio Lower Upper

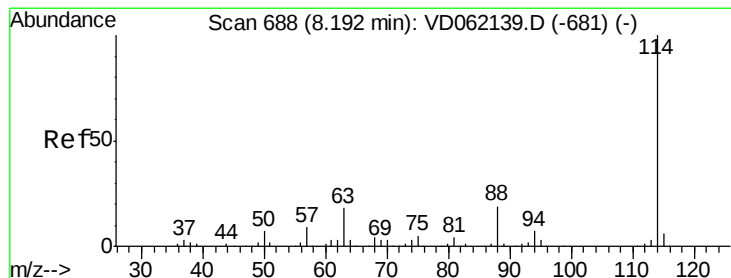
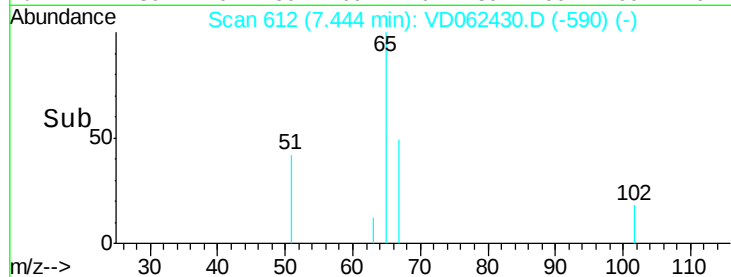
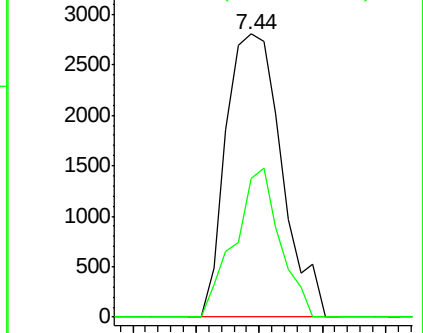
65 100

67 49.0 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

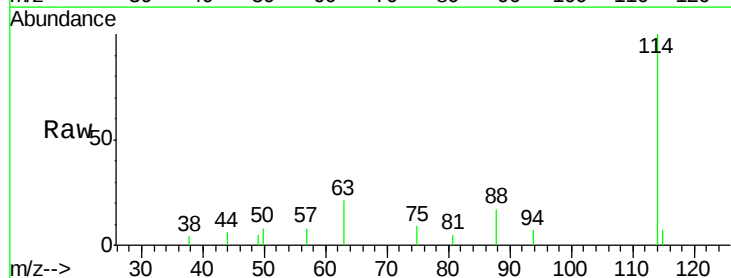
Tgt Ion: 114 Resp: 20289

Ion Ratio Lower Upper

114 100

63 21.1 0.0 32.4

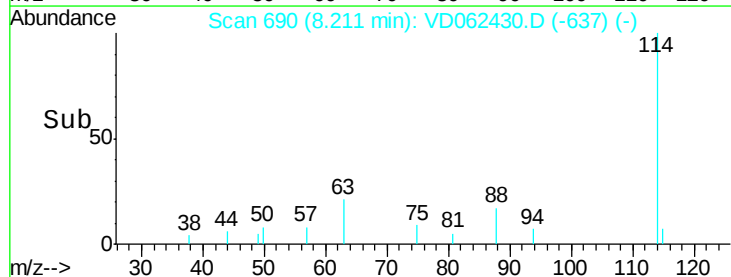
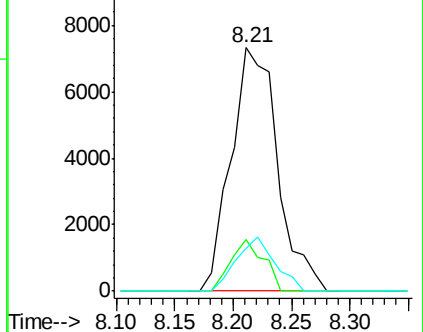
88 17.4 0.0 33.6

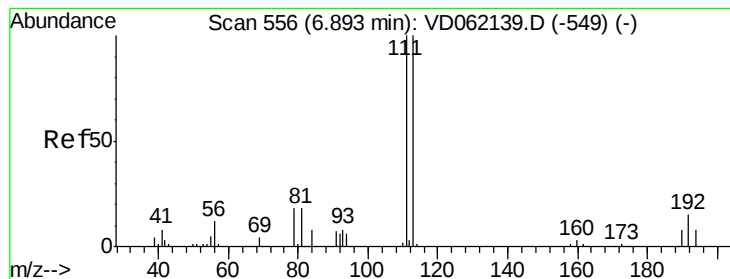


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 41.297 ug/l

RT: 6.92 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-3

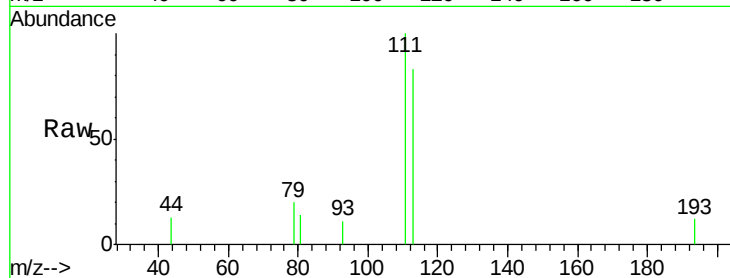
Tot Ion:113 Resp: 6952

Ion Ratio Lower Upper

113 100

111 121.1 78.5 117.7#

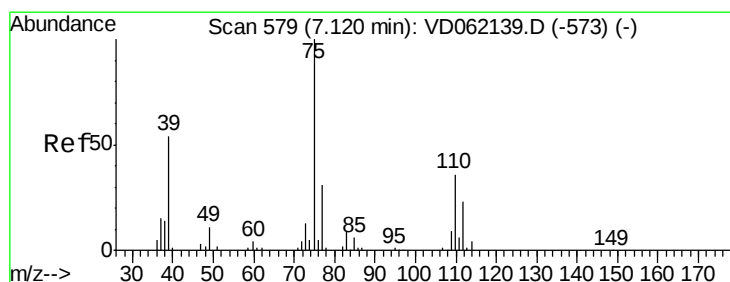
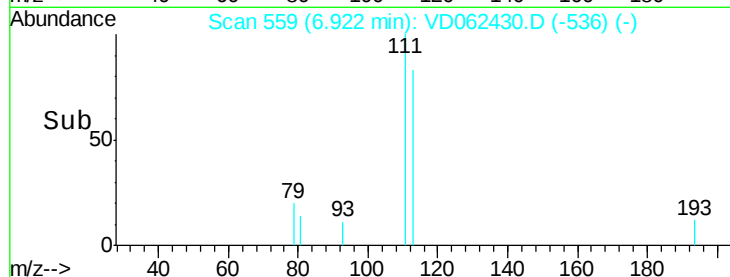
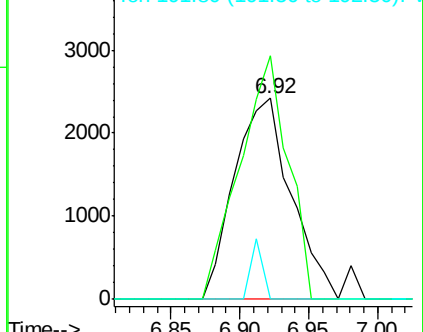
192 0.0 13.0 19.4#



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 1.437 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

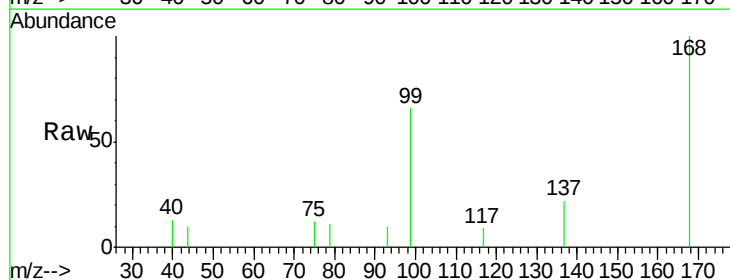
Tgt Ion: 75 Resp: 239

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

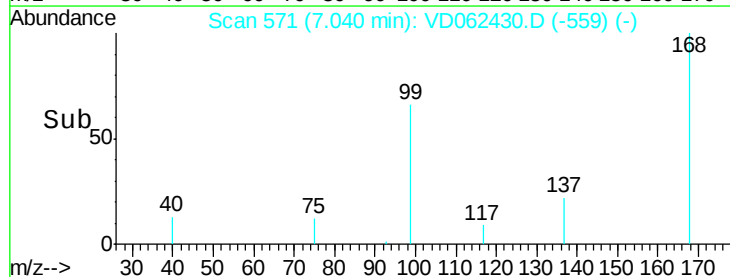
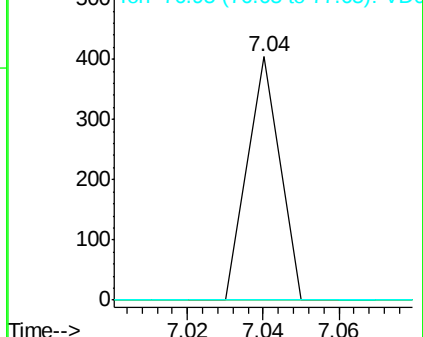
77 0.0 25.6 38.4#

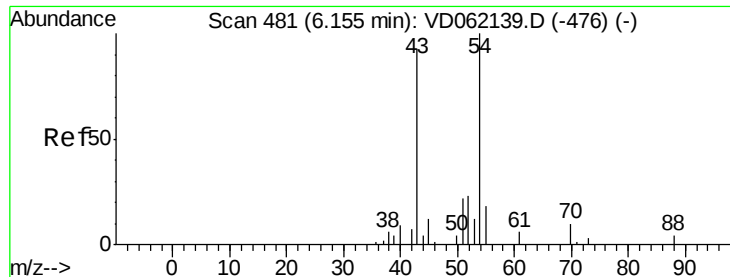


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 2.977 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.13 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-3

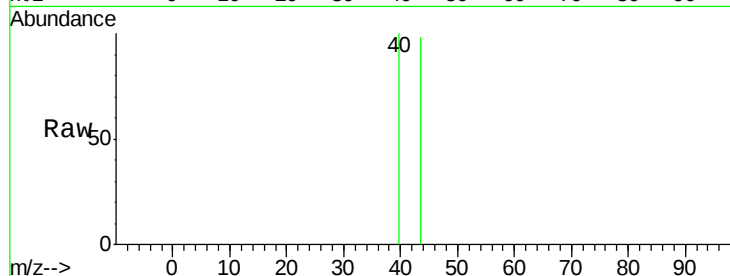
Tot Ion: 43 Resp: 210

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

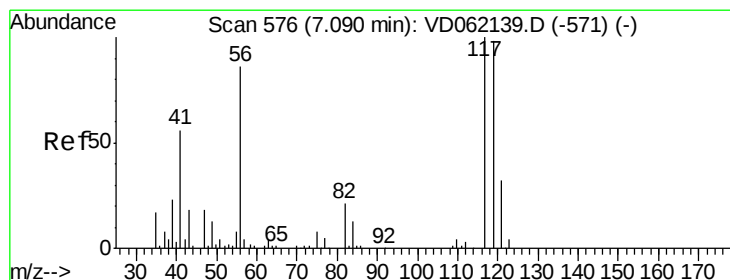
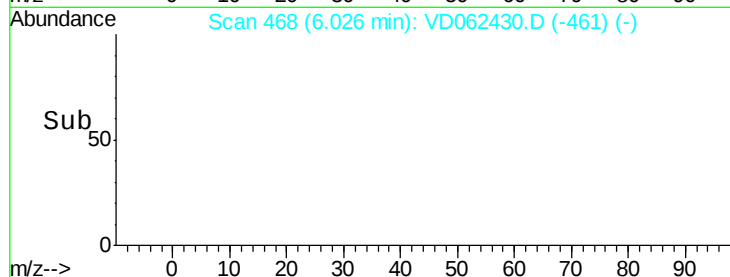
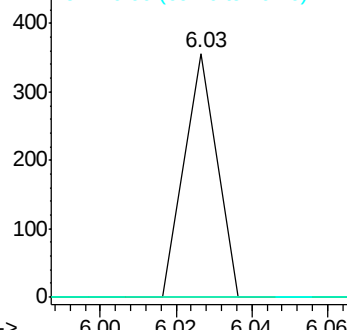
70 0.0 7.8 11.6#



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: 5.177 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

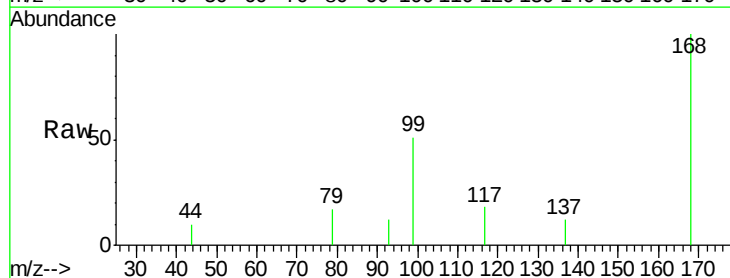
Tgt Ion: 117 Resp: 1192

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

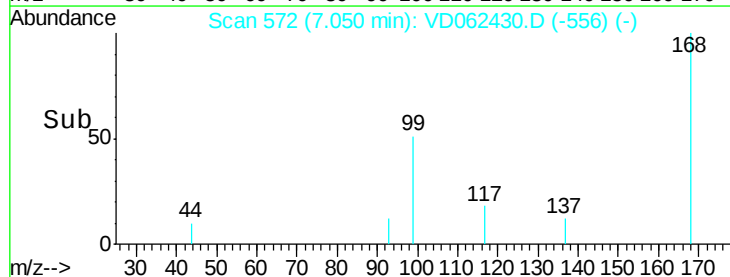
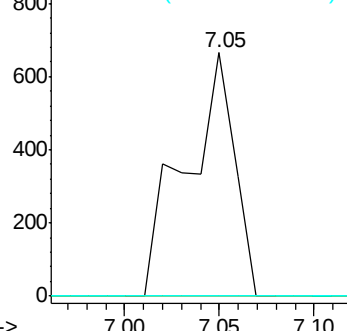
121 0.0 25.9 38.9#

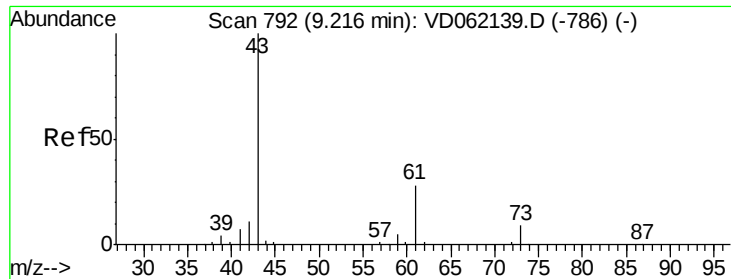


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#43

Isopropyl Acetate

Concen: 1.829 ug/l

RT: 9.56 min Scan# 827

Delta R.T. 0.34 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

Instrument :

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RO-COMP-3

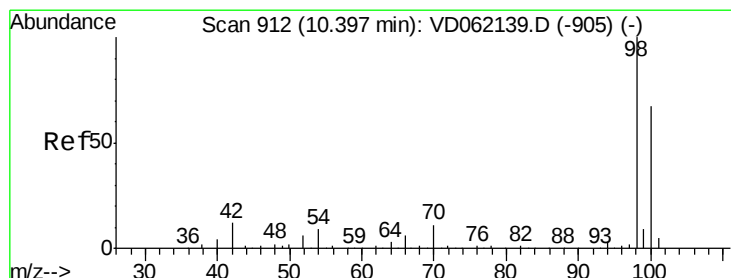
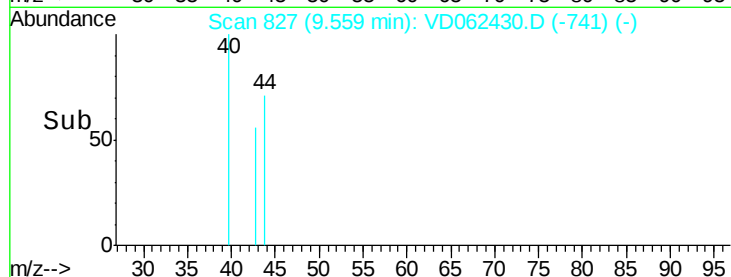
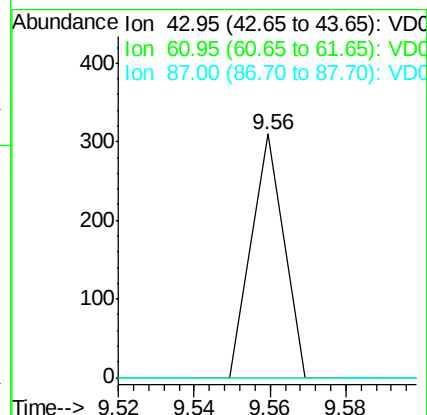
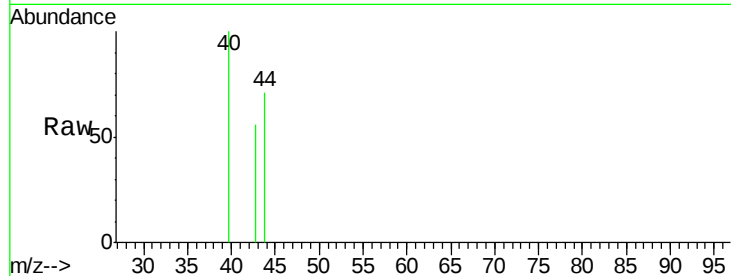
Tot Ion: 43 Resp: 183

Ion Ratio Lower Upper

43 100

61 0.0 25.1 37.7#

87 0.0 0.0 0.0



#50

Toluene-d8

Concen: 37.380 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD062430.D

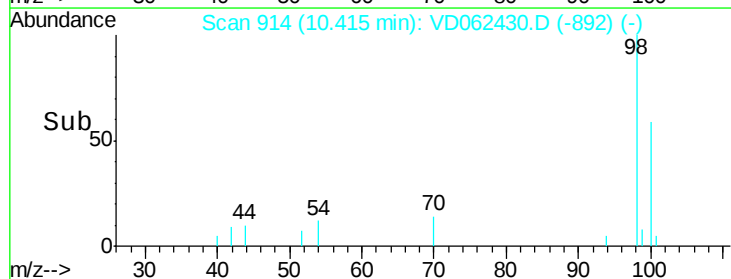
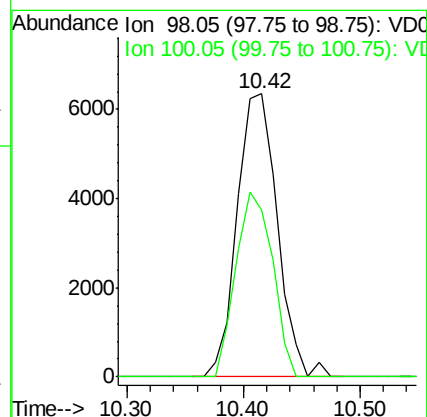
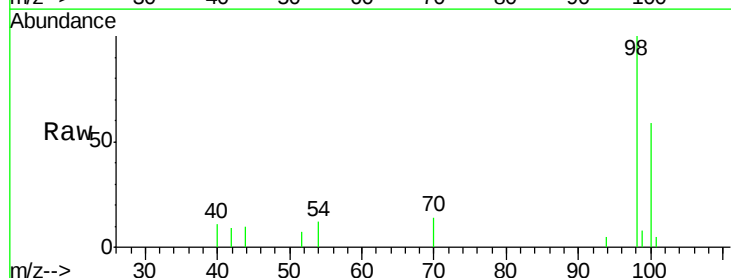
Acq: 16 May 2019 21:11

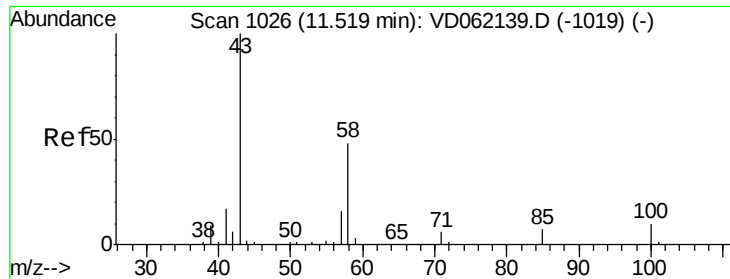
Tgt Ion: 98 Resp: 15172

Ion Ratio Lower Upper

98 100

100 58.9 53.8 80.8





#59

2-Hexanone

Concen: 4.662 ug/l

RT: 11.43 min Scan# 1017

Delta R.T. -0.09 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

Instrument :

MSVOA_D

ClientSampleId :

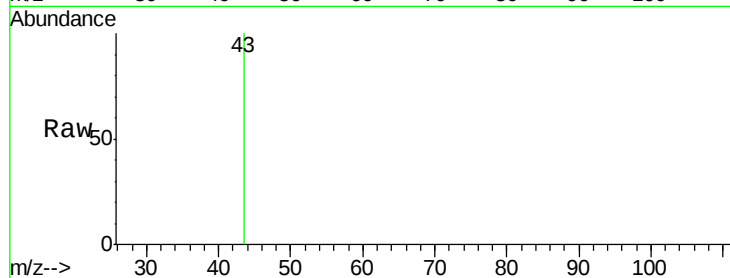
RO-COMP-3

Tot Ion: 43 Resp: 221

Ion Ratio Lower Upper

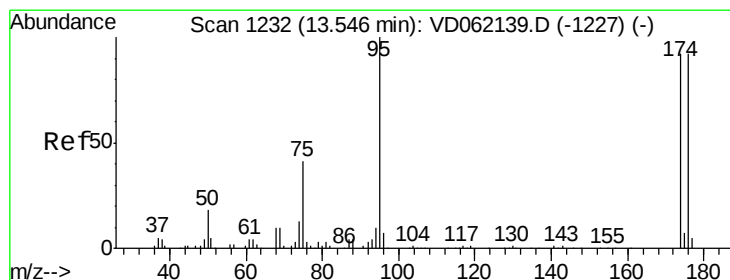
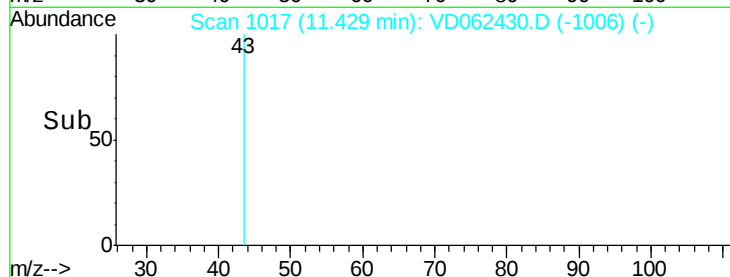
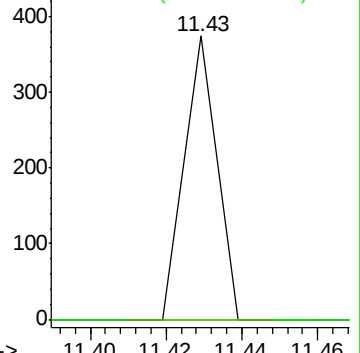
43 100

58 0.0 25.4 76.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 49.151 ug/l

RT: 13.55 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

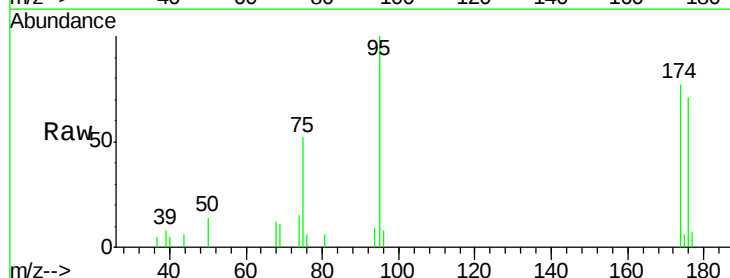
Tgt Ion: 95 Resp: 8011

Ion Ratio Lower Upper

95 100

174 76.5 0.0 181.8

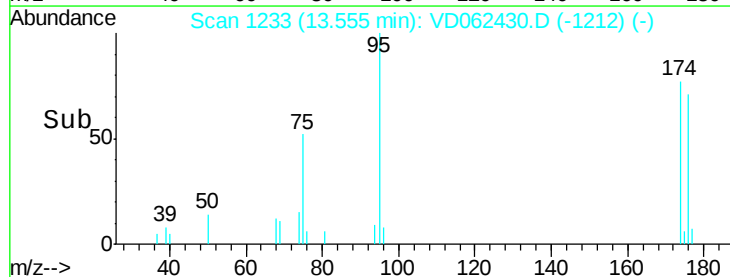
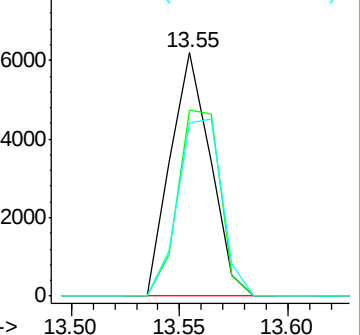
176 70.9 0.0 174.4

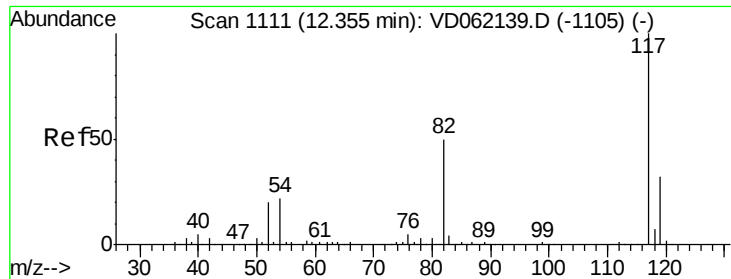


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

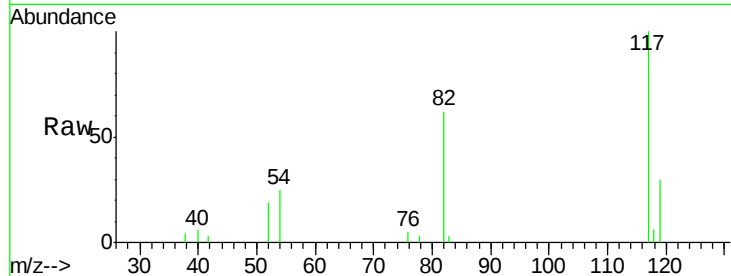




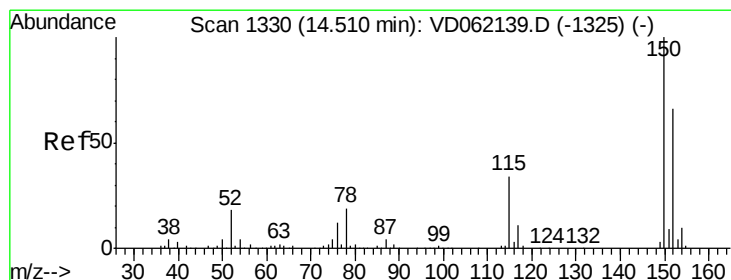
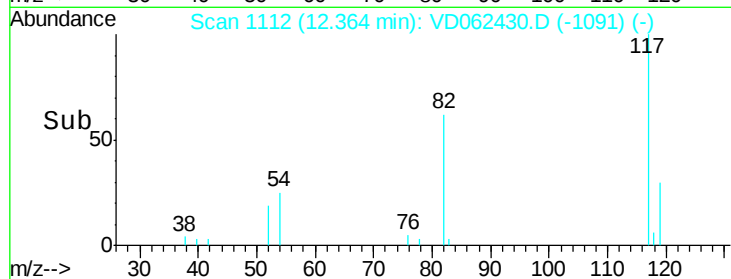
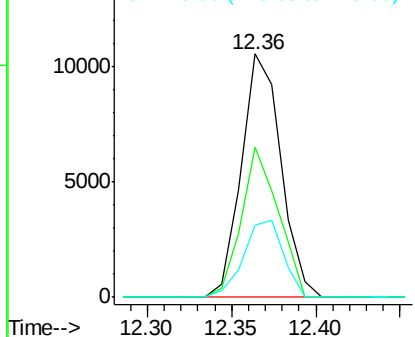
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 12.36 min Scan# 1112
 Delta R.T. 0.01 min
 Lab File: VD062430.D
 Acq: 16 May 2019 21:11

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-COMP-3

Tot Ion:117 Resp: 17113
 Ion Ratio Lower Upper
 117 100
 82 65.0 36.2 54.2#
 119 29.6 26.2 39.4

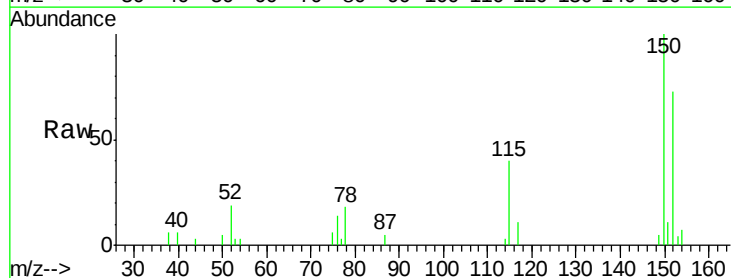


Abundance Ion 116.95 (116.65 to 117.65): V
 Ion 82.05 (81.75 to 82.75): V
 Ion 118.95 (118.65 to 119.65): V

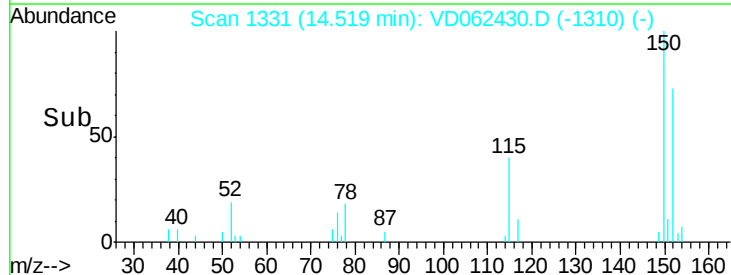
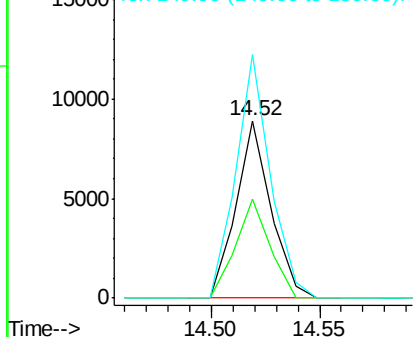


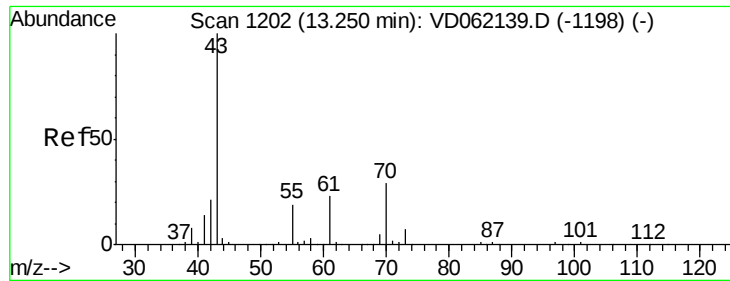
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. 0.01 min
 Lab File: VD062430.D
 Acq: 16 May 2019 21:11

Tgt Ion:152 Resp: 9983
 Ion Ratio Lower Upper
 152 100
 115 55.5 30.9 92.7
 150 137.2 0.0 314.8



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





#74

N-amvl acetate

Concen: 2.428 ug/l

RT: 13.58 min Scan# 1236

Delta R.T. 0.33 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-3

Tot Ion: 43 Resp: 381

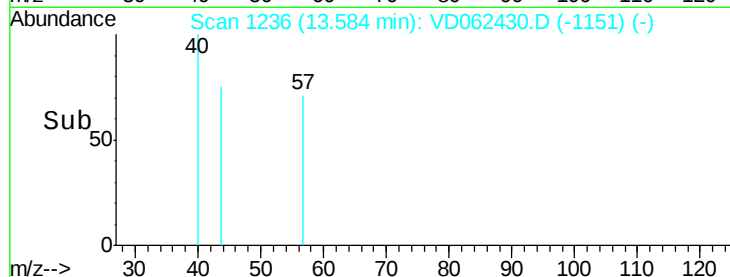
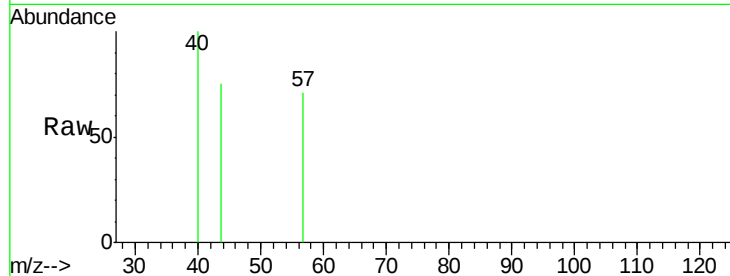
Ion Ratio Lower Upper

43 100

70 0.0 24.2 36.4#

55 0.0 16.0 24.0#

61 0.0 21.6 32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

Time-->

13.58

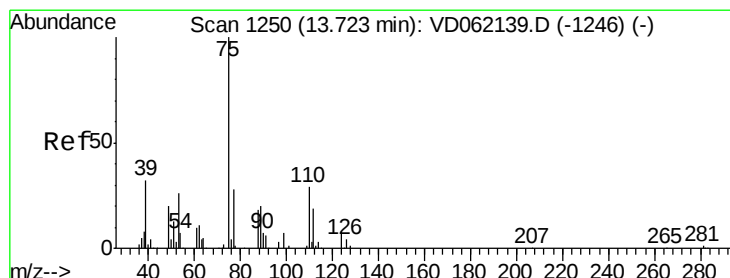
300

200

100

0

13.55 13.60



#76

1,2,3-Trichloropropane

Concen: 24.090 ug/l

RT: 13.55 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD062430.D

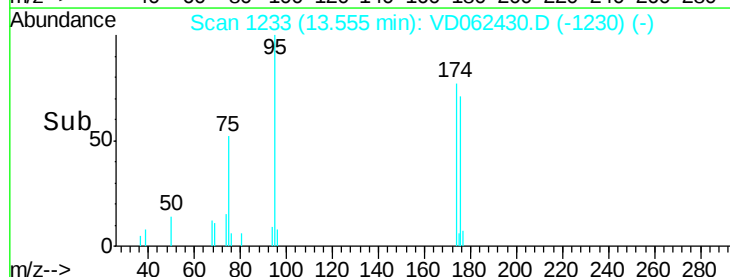
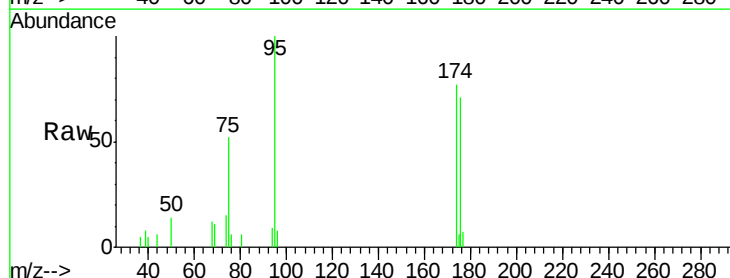
Acq: 16 May 2019 21:11

Tgt Ion: 75 Resp: 2858

Ion Ratio Lower Upper

75 100

77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Time-->

13.55

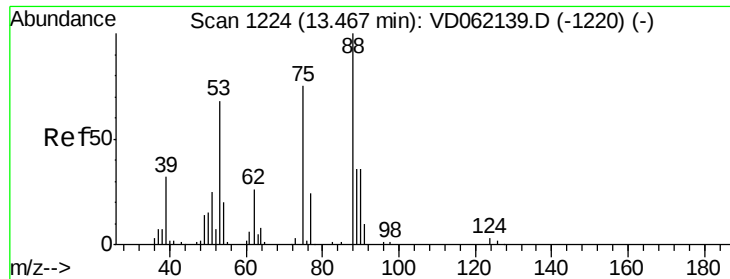
3000

2000

1000

0

13.54 13.56 13.58



#81

trans-1,4-Dichloro-2-butene

Concen: 110.591 ug/l

RT: 13.55 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-3

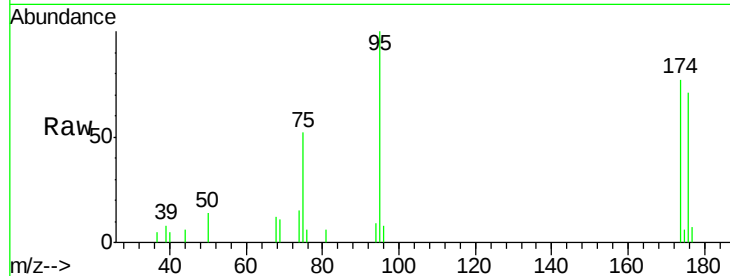
Tot Ion: 75 Resp: 3704

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

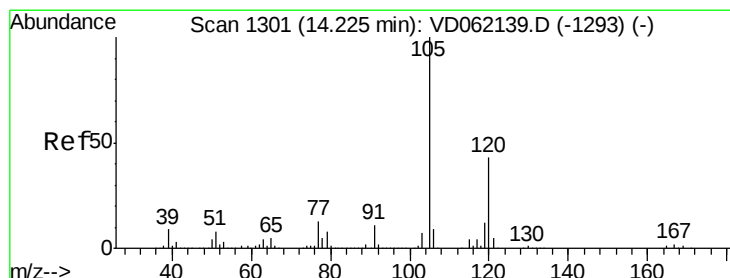
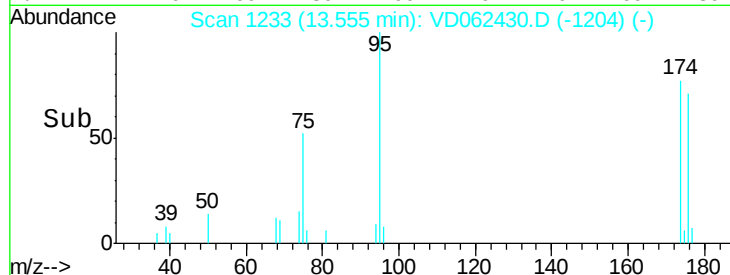
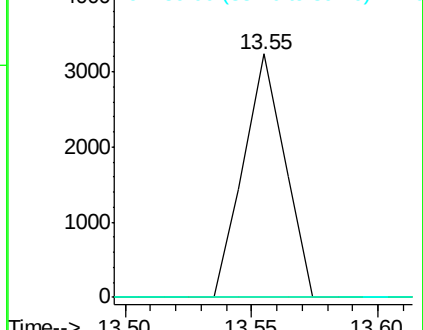
89 0.0 35.0 52.6#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.088 ug/l

RT: 14.23 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD062430.D

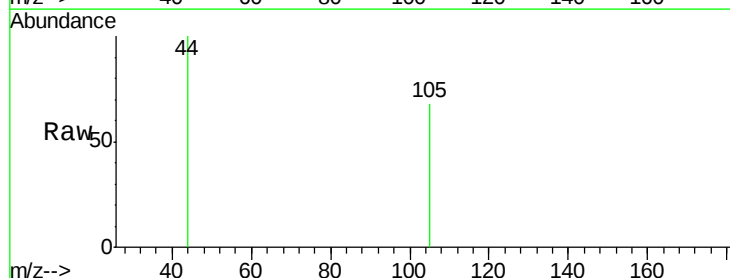
Acq: 16 May 2019 21:11

Tgt Ion: 105 Resp: 550

Ion Ratio Lower Upper

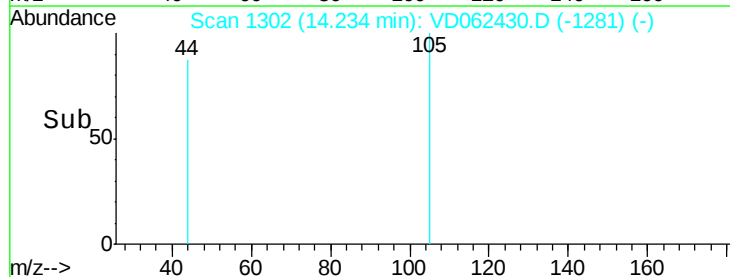
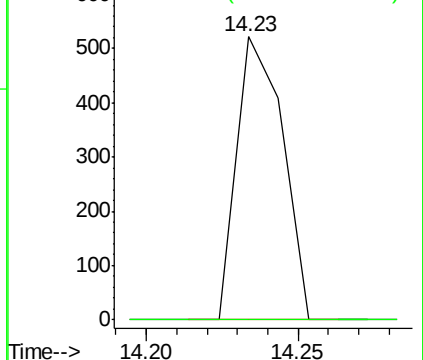
105 100

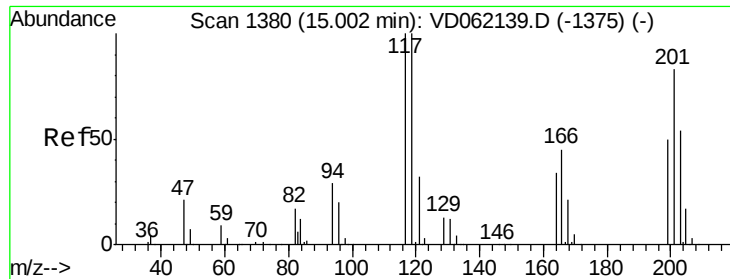
120 0.0 23.1 69.2#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#90

Hexachloroethane

Concen: 1.611 ug/l

RT: 15.14 min Scan# 1394

Delta R.T. 0.14 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

Instrument :

MSVOA_D

ClientSampleId :

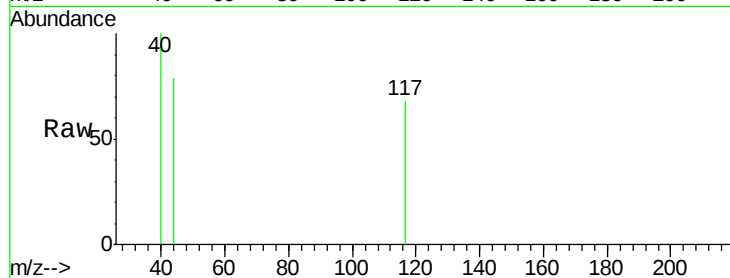
RO-COMP-3

Tot Ion:117 Resp: 243

Ion Ratio Lower Upper

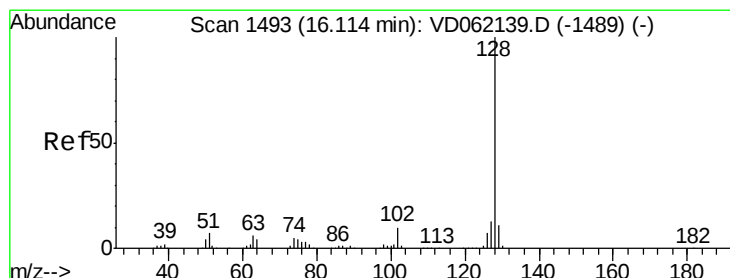
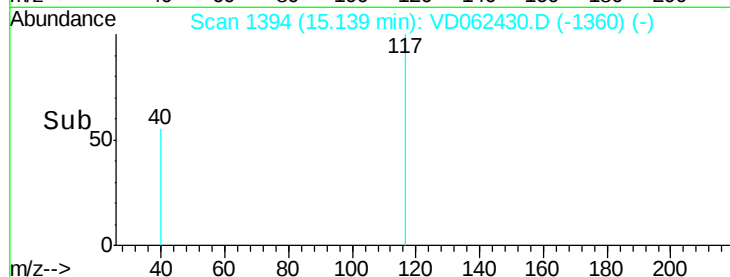
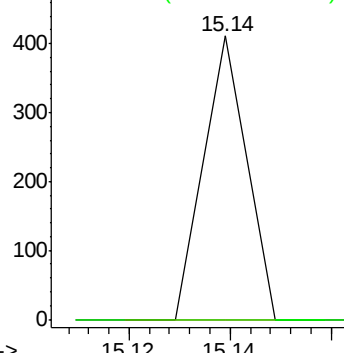
117 100

201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#95

Naphthalene

Concen: 9.485 ug/l

RT: 16.12 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD062430.D

Acq: 16 May 2019 21:11

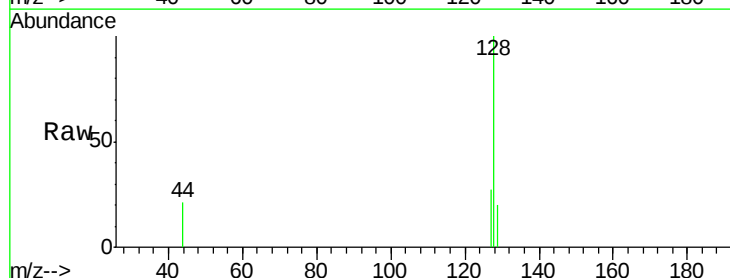
Tgt Ion:128 Resp: 2429

Ion Ratio Lower Upper

128 100

127 27.4 9.8 14.8#

129 20.3 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

