

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051719\
 Data File : VD062439.D
 Acq On : 17 May 2019 15:09
 Operator : FY/SY
 Sample : K2866-01RE
 Misc : 5.94g/5mL/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-COMP-1RE

Quant Time: May 18 00:04:33 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	7.06	168	7126	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.21	114	12167	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	8458	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	5027	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	3827	57.79	ug/l	0.02
Spiked Amount			Recovery	=	115.58%	
35) Dibromofluoromethane	6.91	113	2204	21.83	ug/l	0.02
Spiked Amount			Recovery	=	43.66%	
50) Toluene-d8	10.42	98	5596	22.99	ug/l	0.02
Spiked Amount			Recovery	=	45.98%	
62) 4-Bromofluorobenzene	13.56	95	3711	37.97	ug/l	0.00
Spiked Amount			Recovery	=	75.94%	

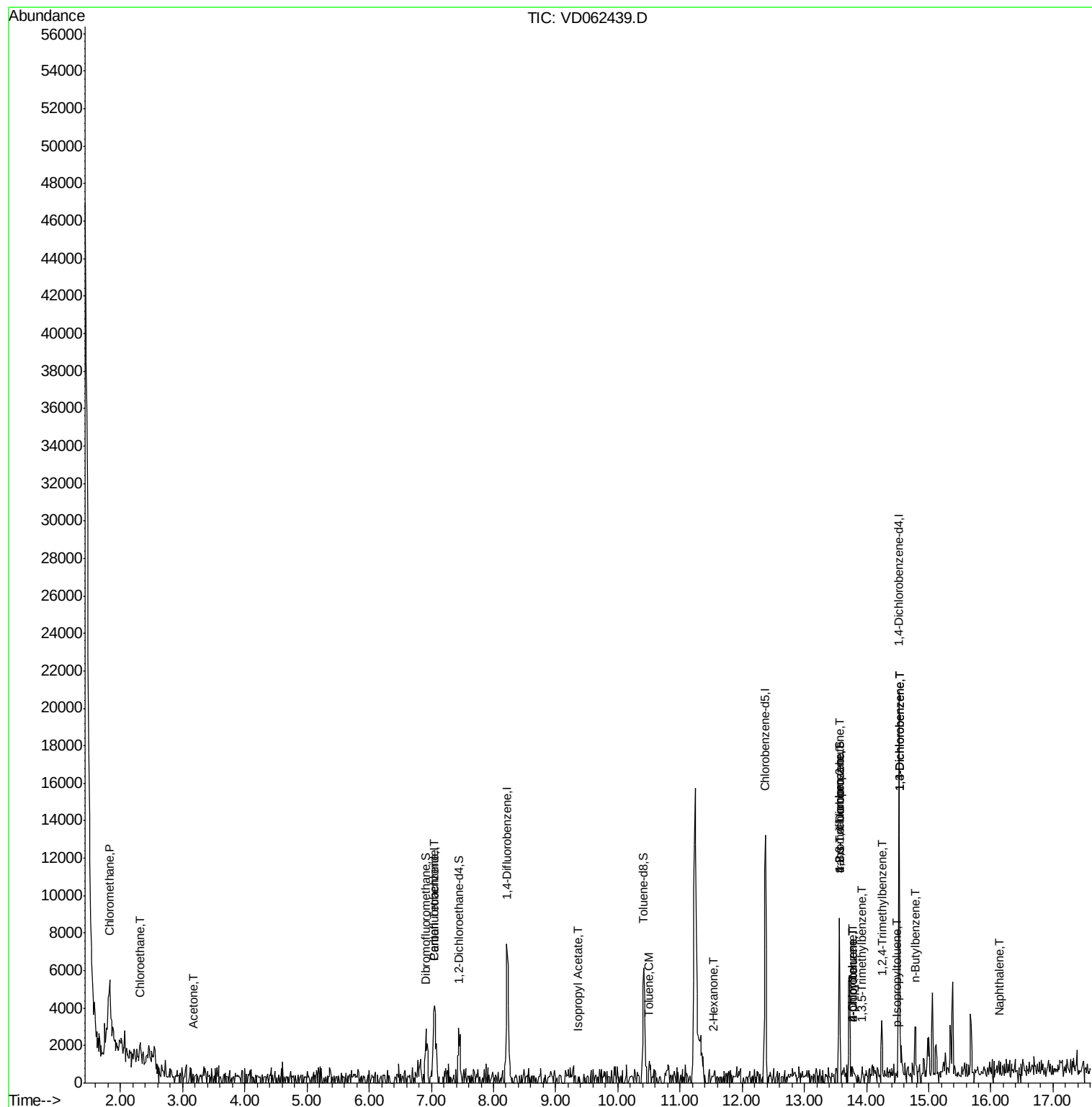
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.83	50	179	3.635	ug/l #	43
6) Chloroethane	2.31	64	234	11.522	ug/l #	43
16) Acetone	3.16	43	192	13.825	ug/l #	50
38) Carbon Tetrachloride	7.05	117	210	1.521	ug/l #	12
43) Isopropyl Acetate	9.36	43	211	3.517	ug/l #	43
52) Toluene	10.51	92	363	2.477	ug/l #	63
59) 2-Hexanone	11.53	43	197	6.930	ug/l #	27
76) 1,2,3-Trichloropropane	13.56	75	1278	21.392	ug/l #	42
78) n-propylbenzene	13.77	91	480	1.335	ug/l #	54
79) 2-Chlorotoluene	13.77	91	480	2.332	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.94	105	654	2.577	ug/l #	29
81) trans-1,4-Dichloro-2-buten	13.56	75	1279	75.835	ug/l #	16
82) 4-Chlorotoluene	13.77	91	480	1.981	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.24	105	1471	5.777	ug/l	91
86) p-Isopropyltoluene	14.49	119	366	1.310	ug/l #	52
87) 1,3-Dichlorobenzene	14.54	146	472	3.063	ug/l #	25
88) 1,4-Dichlorobenzene	14.54	146	472	3.117	ug/l #	25
89) n-Butylbenzene	14.78	91	390	1.555	ug/l #	1
95) Naphthalene	16.12	128	489	3.792	ug/l #	70

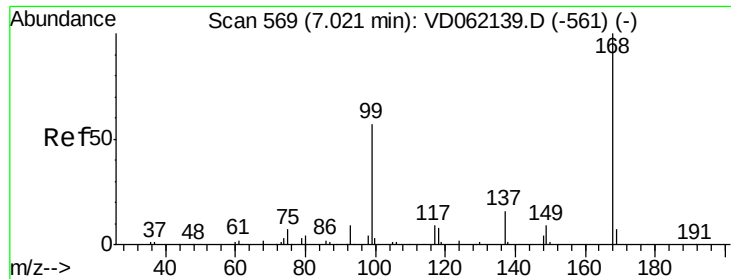
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062439.D

Acq: 17 May 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

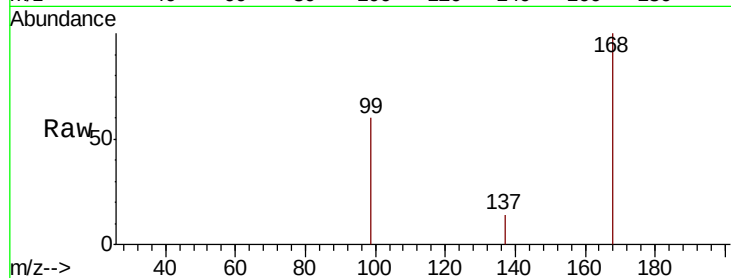
RO-COMP-1RE

Tot Ion:168 Resp: 7126

Ion Ratio Lower Upper

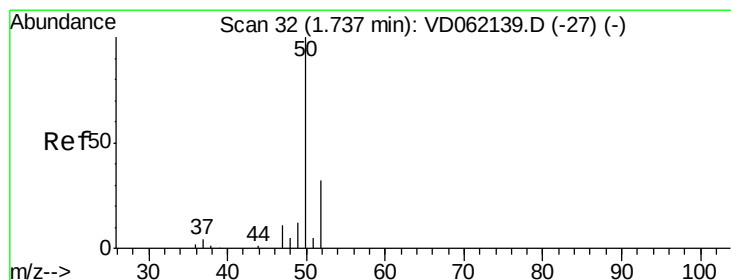
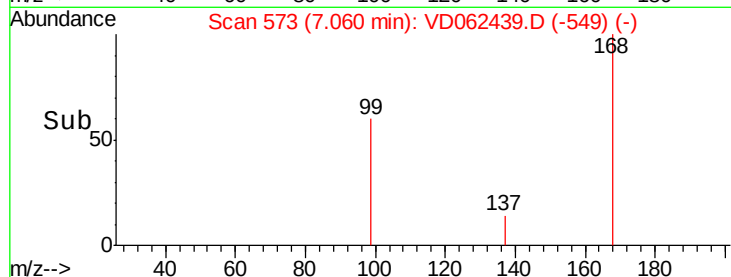
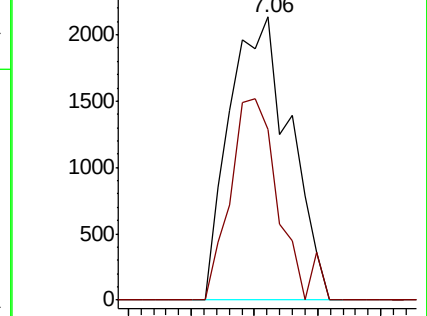
168 100

99 60.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 3.635 ug/l

RT: 1.83 min Scan# 42

Delta R.T. 0.10 min

Lab File: VD062439.D

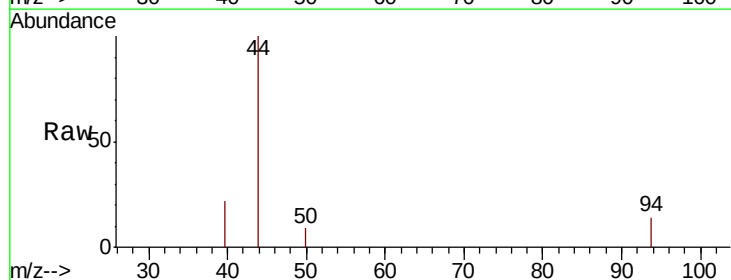
Acq: 17 May 2019 15:09

Tgt Ion: 50 Resp: 179

Ion Ratio Lower Upper

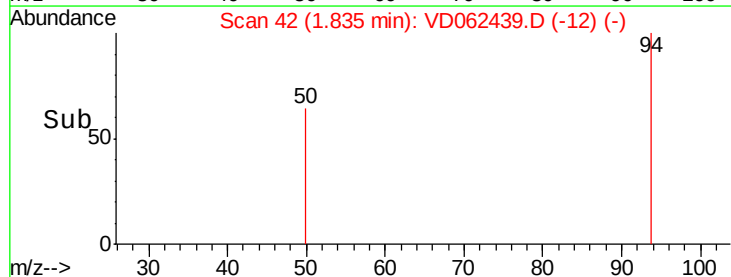
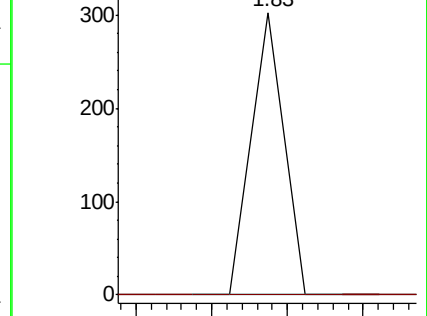
50 100

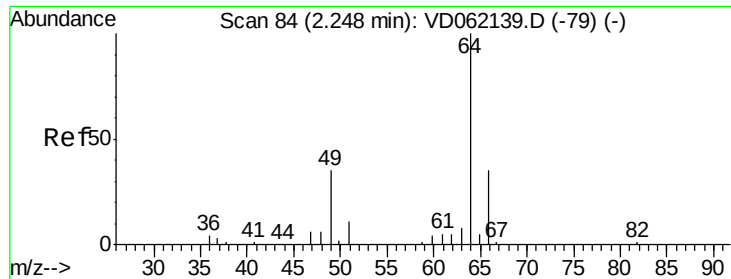
52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#6

Chloroethane

Concen: 11.522 ug/l

RT: 2.31 min Scan# 90

Delta R.T. 0.06 min

Lab File: VD062439.D

Acq: 17 May 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

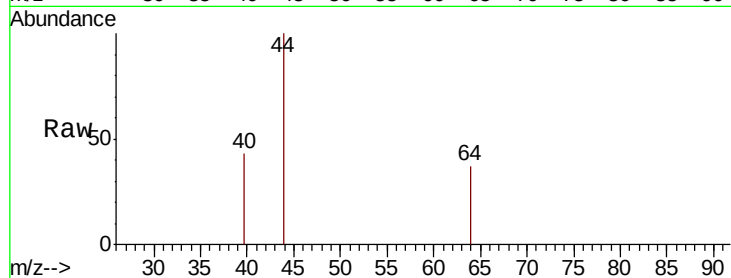
RO-COMP-1RE

Tot Ion: 64 Resp: 234

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.31

400

300

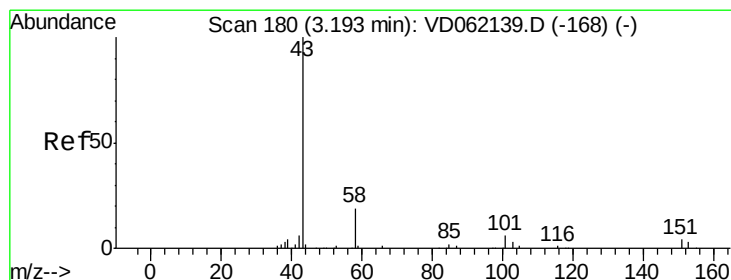
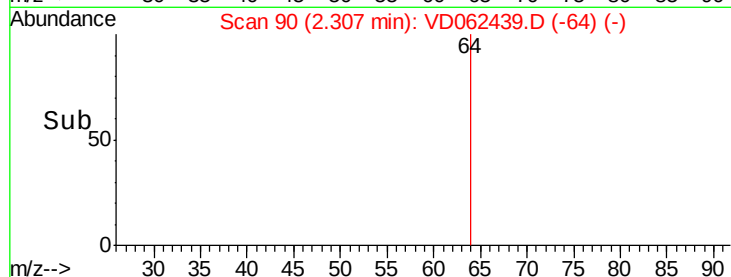
200

100

0

2.28 2.30 2.32 2.34

Time-->



#16

Acetone

Concen: 13.825 ug/l

RT: 3.16 min Scan# 177

Delta R.T. -0.03 min

Lab File: VD062439.D

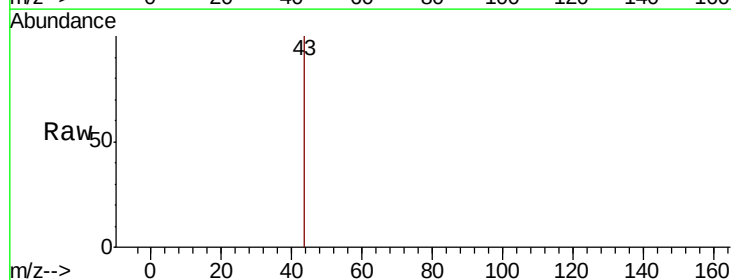
Acq: 17 May 2019 15:09

Tgt Ion: 43 Resp: 192

Ion Ratio Lower Upper

43 100

58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.16

300

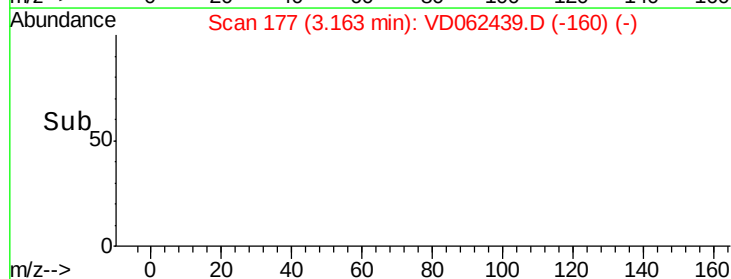
200

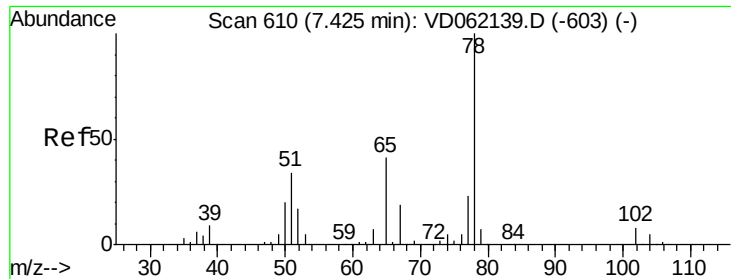
100

0

3.14 3.16 3.18

Time-->

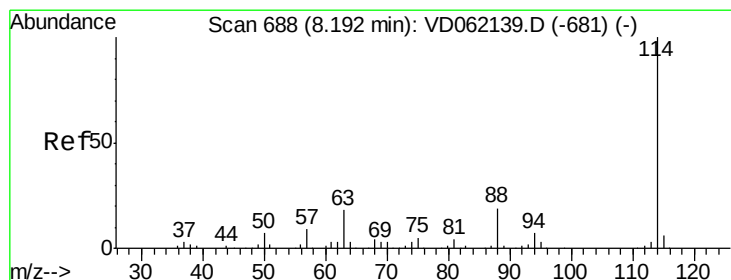
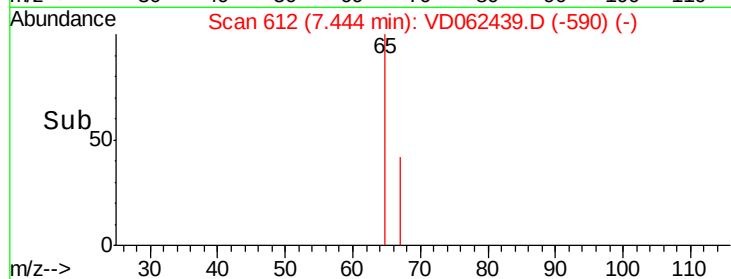
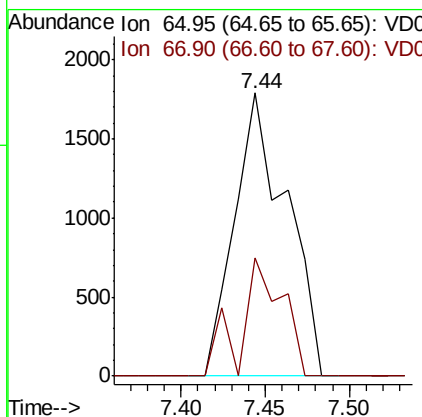
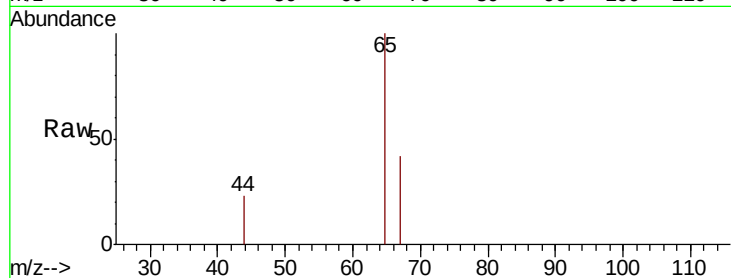




#33
 1,2-Dichloroethane-d4
 Concen: 57.790 ug/l
 RT: 7.44 min Scan# 612
 Delta R.T. 0.02 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

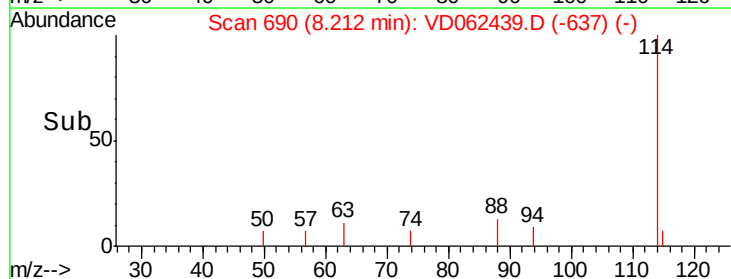
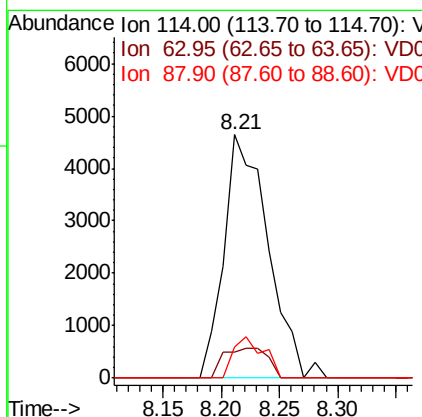
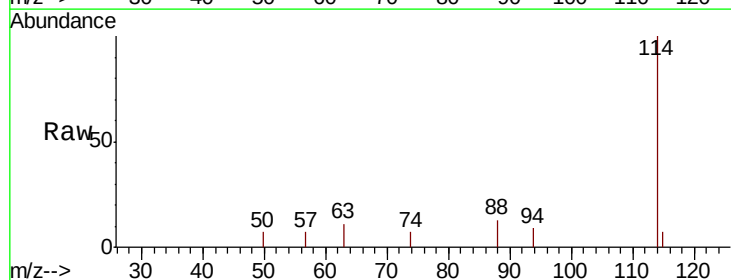
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 RO-COMP-1RE

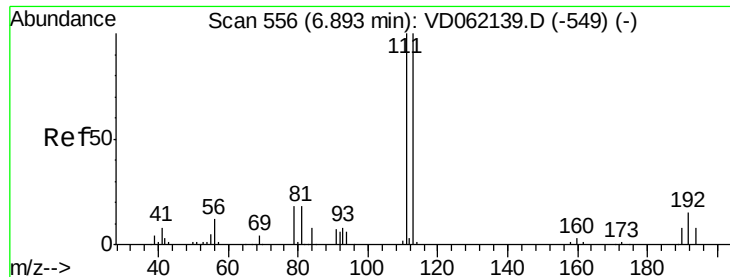
Tot Ion: 65 Resp: 3827
 Ion Ratio Lower Upper
 65 100
 67 41.6 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. 0.02 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

Tgt Ion: 114 Resp: 12167
 Ion Ratio Lower Upper
 114 100
 63 10.9 0.0 32.4
 88 12.8 0.0 33.6

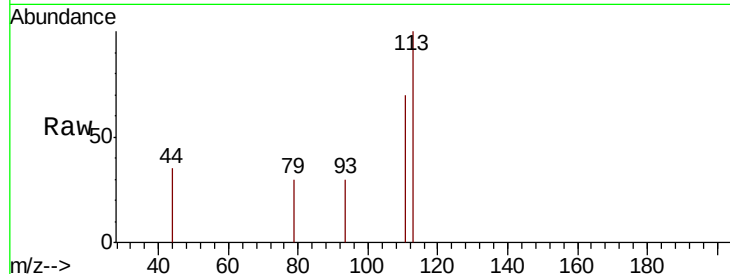




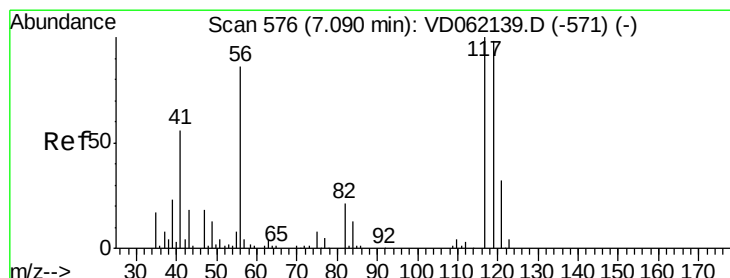
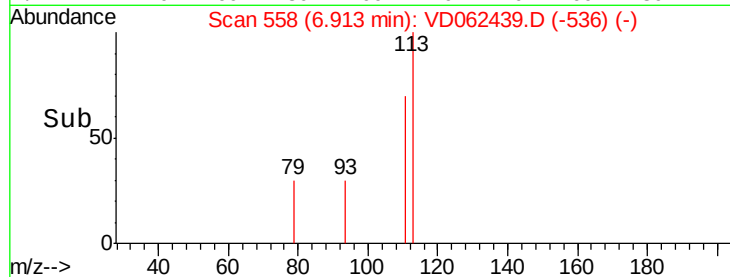
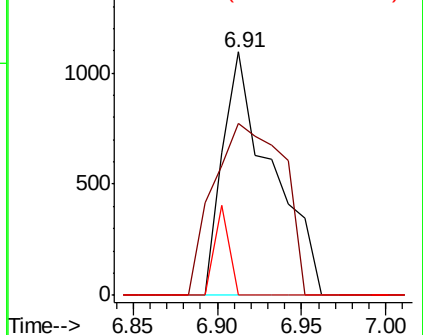
#35
 Dibromofluoromethane
 Concen: 21.832 ug/l
 RT: 6.91 min Scan# 558
 Delta R.T. 0.02 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-COMP-1RE

Tot Ion:113 Resp: 2204
 Ion Ratio Lower Upper
 113 100
 111 70.4 78.5 117.7#
 192 0.0 13.0 19.4#

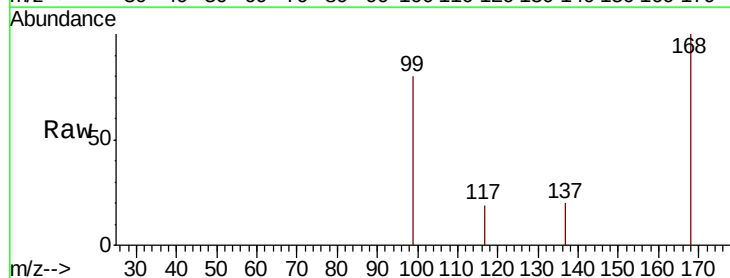


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

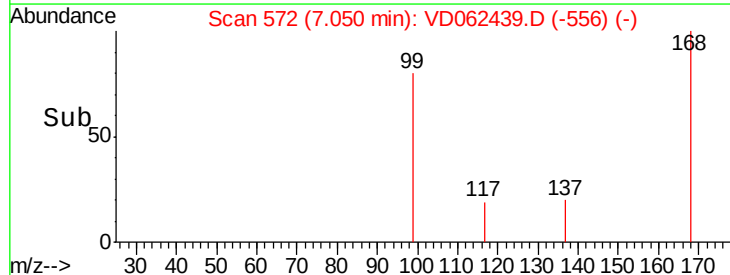
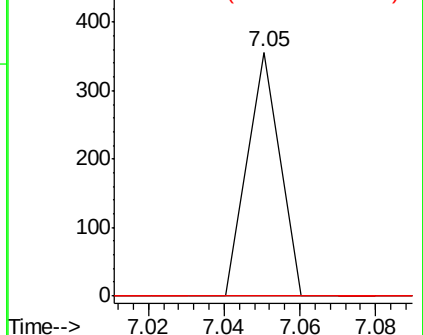


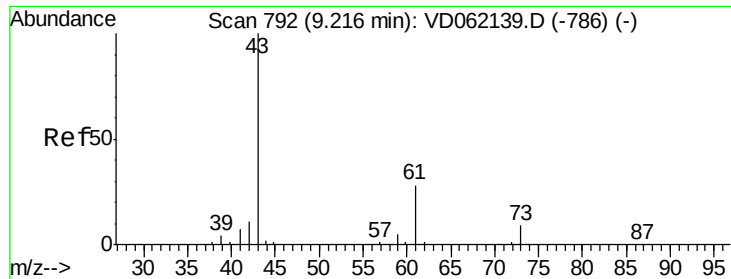
#38
 Carbon Tetrachloride
 Concen: 1.521 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.04 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

Tgt Ion:117 Resp: 210
 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: 3.517 ug/l

RT: 9.36 min Scan# 807

Delta R.T. 0.15 min

Lab File: VD062439.D

Acq: 17 May 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-1RE

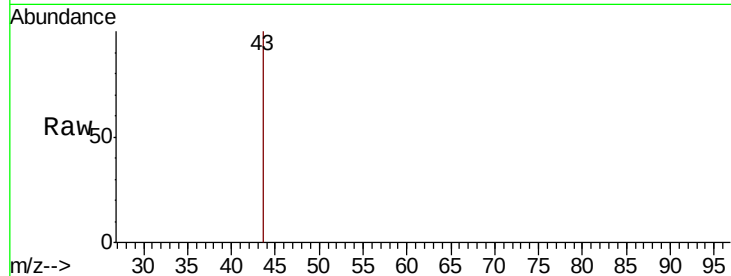
Tot Ion: 43 Resp: 211

Ion Ratio Lower Upper

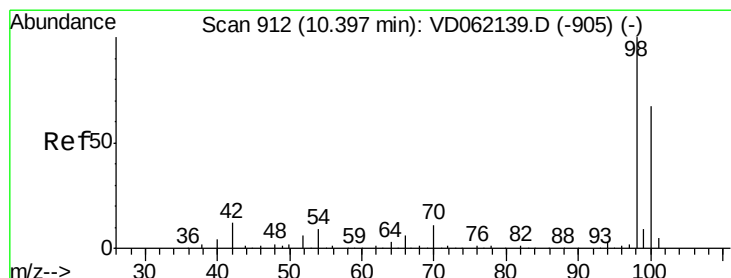
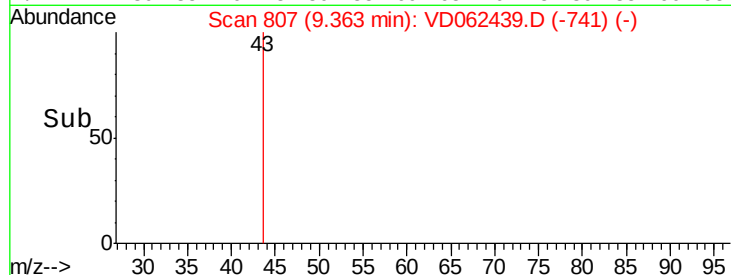
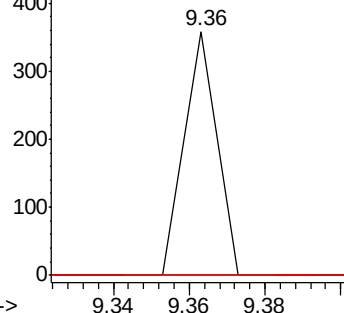
43 100

61 0.0 25.1 37.7#

87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



#50

Toluene-d8

Concen: 22.991 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD062439.D

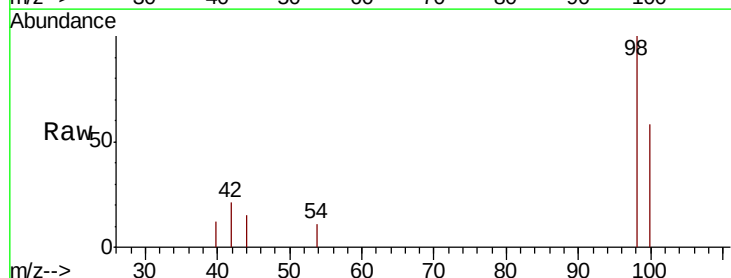
Acq: 17 May 2019 15:09

Tgt Ion: 98 Resp: 5596

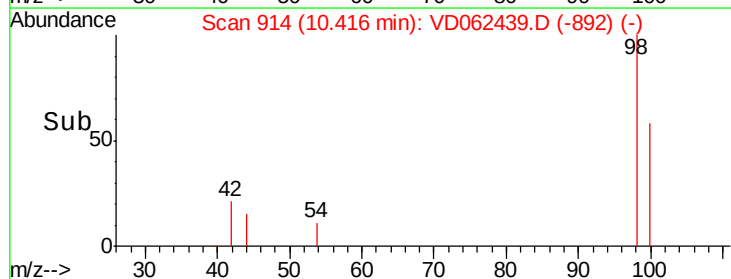
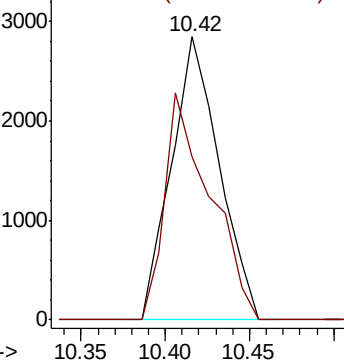
Ion Ratio Lower Upper

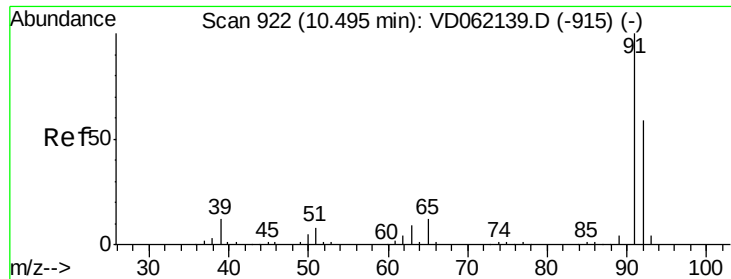
98 100

100 57.7 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 2.477 ug/l

RT: 10.51 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD062439.D

Acq: 17 May 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

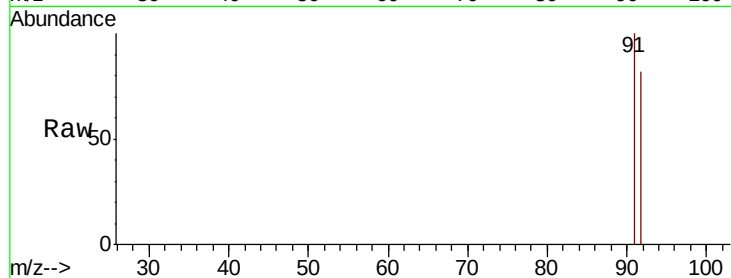
RO-COMP-1RE

Tot Ion: 92 Resp: 363

Ion Ratio Lower Upper

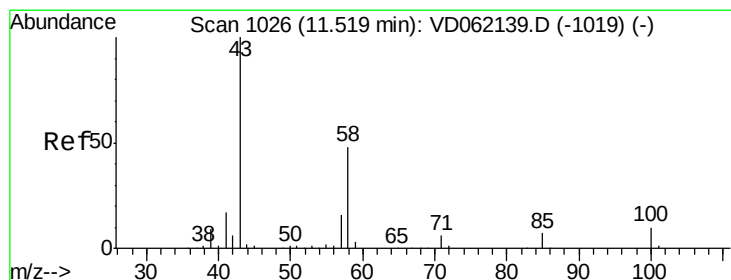
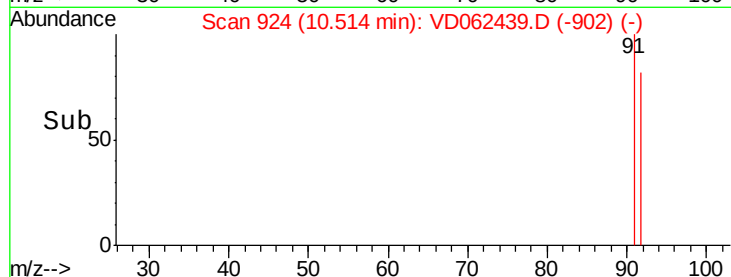
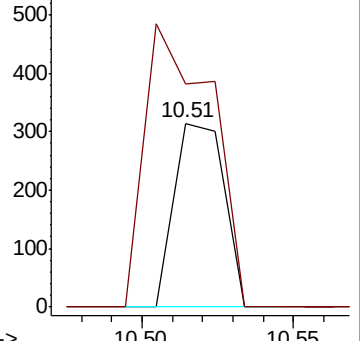
92 100

91 221.7 136.6 204.8#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 6.930 ug/l

RT: 11.53 min Scan# 1027

Delta R.T. 0.01 min

Lab File: VD062439.D

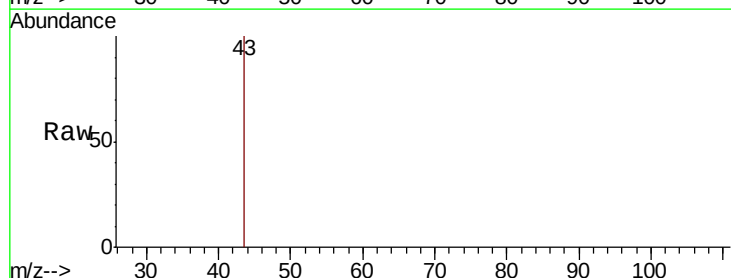
Acq: 17 May 2019 15:09

Tgt Ion: 43 Resp: 197

Ion Ratio Lower Upper

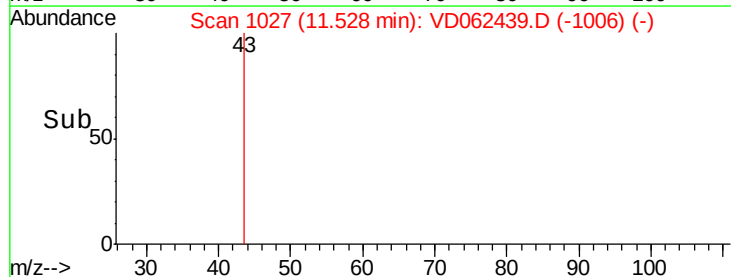
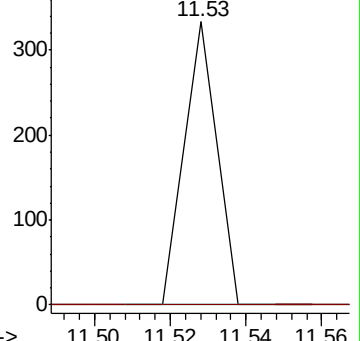
43 100

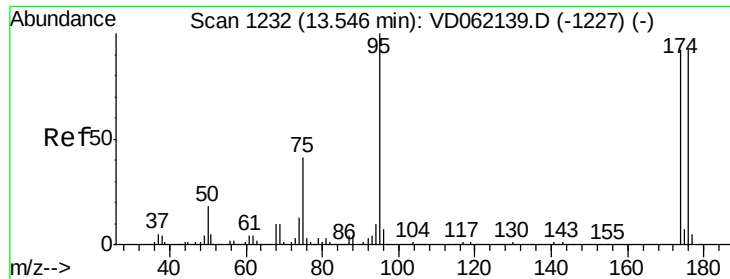
58 0.0 25.4 76.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

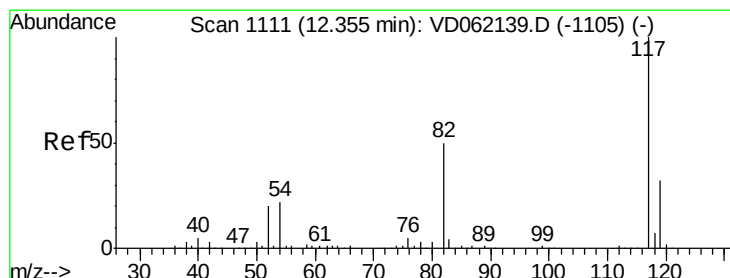
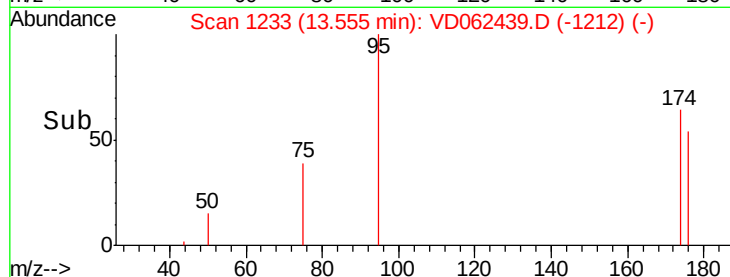
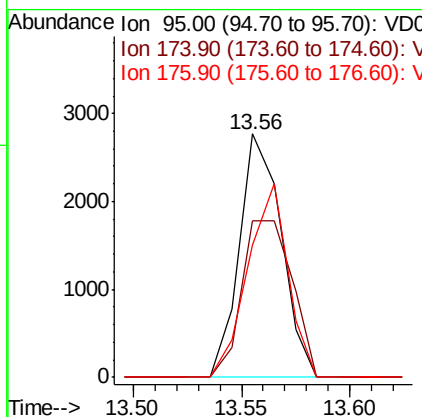
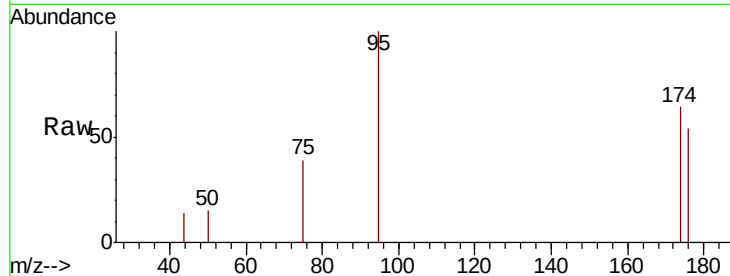




#62
 4-Bromofluorobenzene
 Concen: 37.968 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

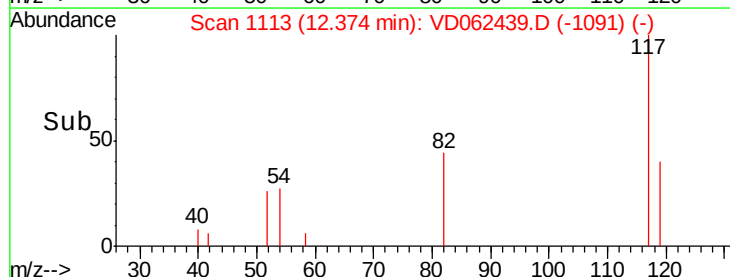
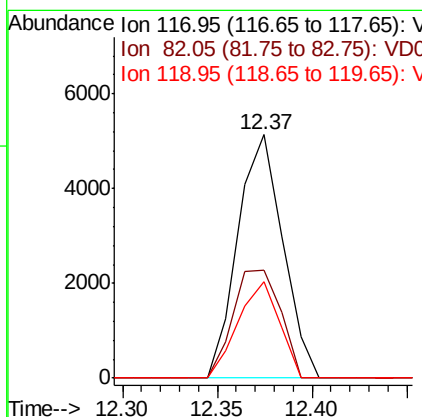
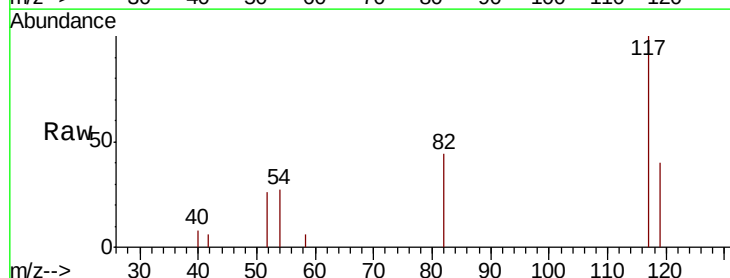
Instrument :
 MSVOA_D
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 RO-COMP-1RE

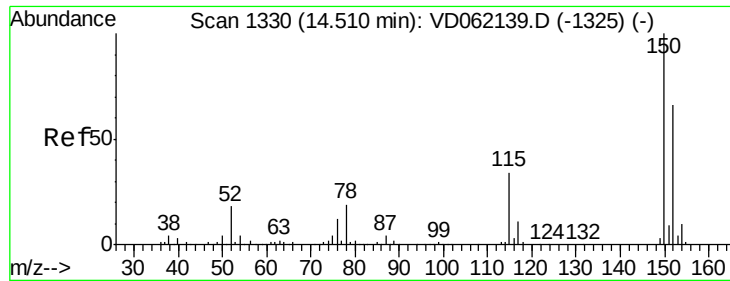
Tot Ion: 95 Resp: 3711
 Ion Ratio Lower Upper
 95 100
 174 64.4 0.0 181.8
 176 54.3 0.0 174.4



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 12.37 min Scan# 1113
 Delta R.T. 0.02 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

Tgt Ion: 117 Resp: 8458
 Ion Ratio Lower Upper
 117 100
 82 44.4 36.2 54.2
 119 39.6 26.2 39.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062439.D

Acq: 17 May 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-1RE

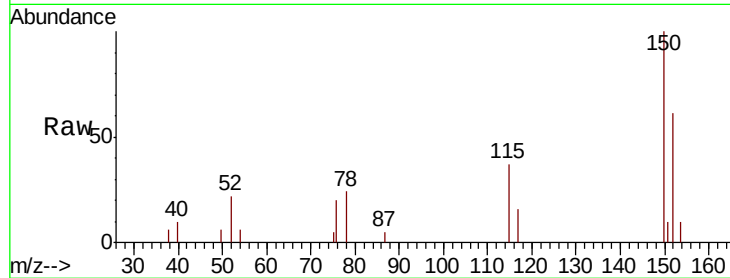
Tot Ion:152 Resp: 5027

Ion Ratio Lower Upper

152 100

115 59.9 30.9 92.7

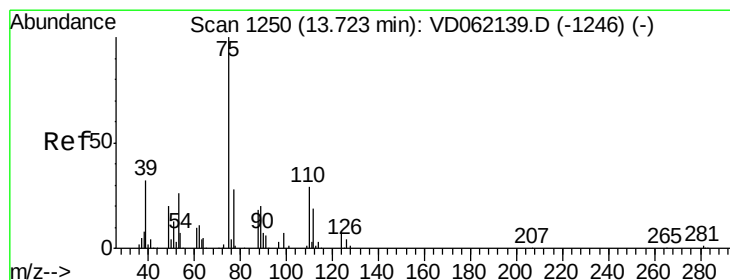
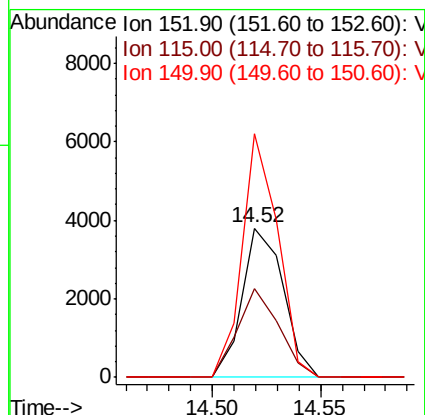
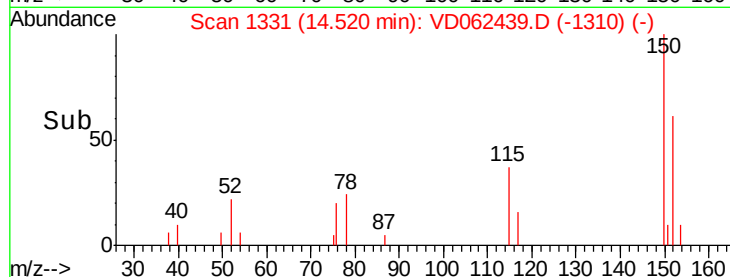
150 163.1 0.0 314.8



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



#76

1,2,3-Trichloropropane

Concen: 21.392 ug/l

RT: 13.56 min Scan# 1234

Delta R.T. -0.16 min

Lab File: VD062439.D

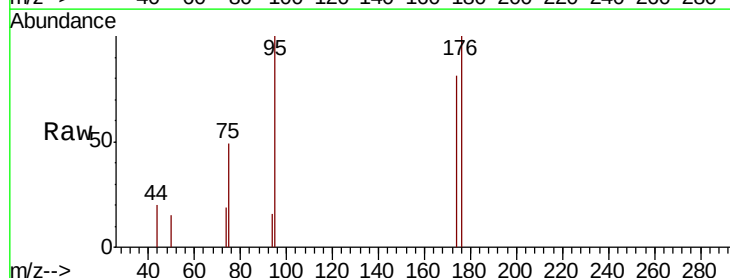
Acq: 17 May 2019 15:09

Tgt Ion: 75 Resp: 1278

Ion Ratio Lower Upper

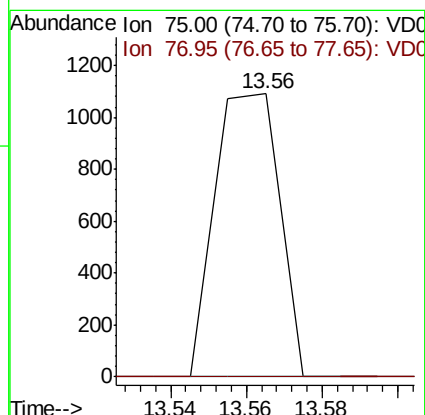
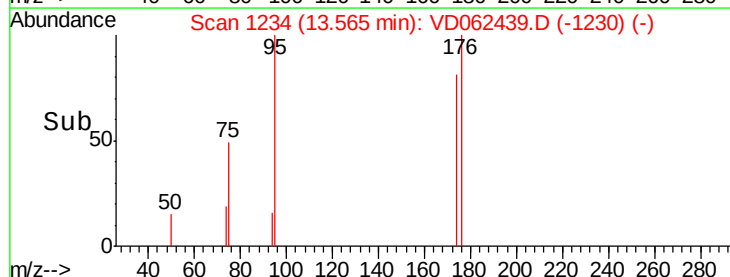
75 100

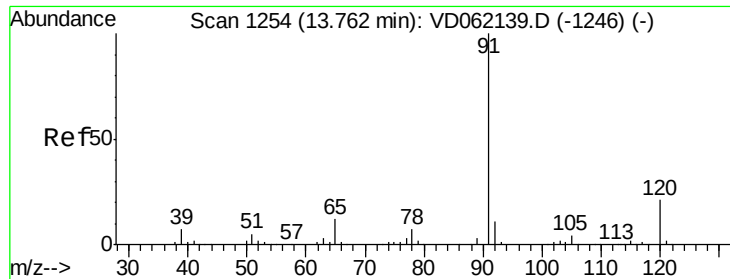
77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#78

n-propylbenzene

Concen: 1.335 ug/l

RT: 13.77 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD062439.D

Acq: 17 May 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

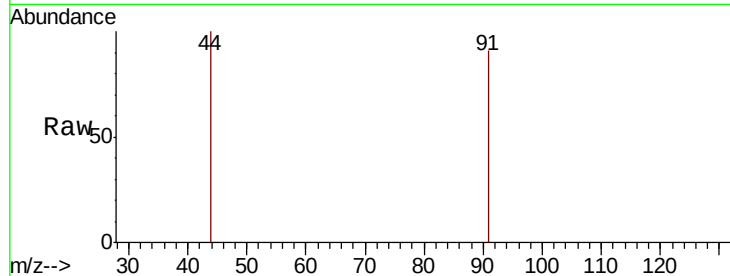
RO-COMP-1RE

Tot Ion: 91 Resp: 480

Ion Ratio Lower Upper

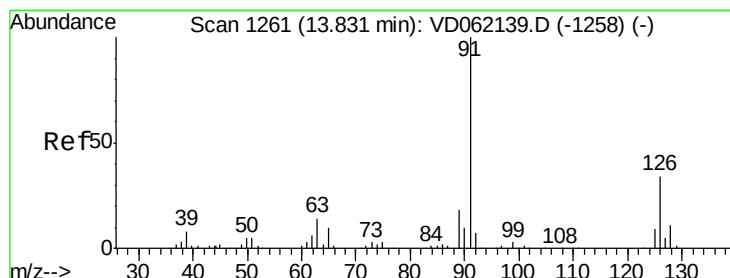
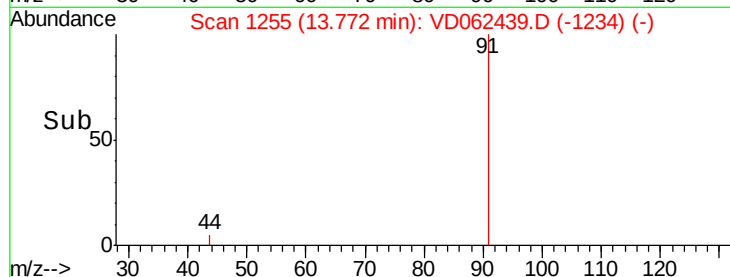
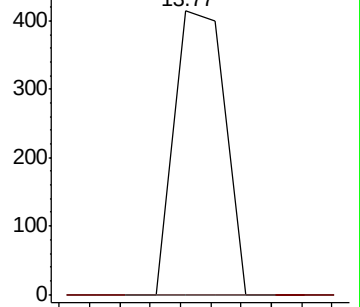
91 100

120 0.0 11.1 33.1#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 2.332 ug/l

RT: 13.77 min Scan# 1255

Delta R.T. -0.06 min

Lab File: VD062439.D

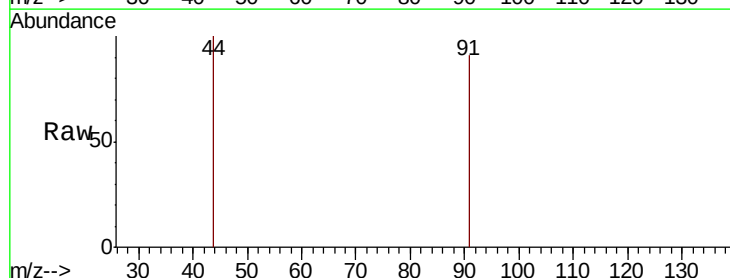
Acq: 17 May 2019 15:09

Tgt Ion: 91 Resp: 480

Ion Ratio Lower Upper

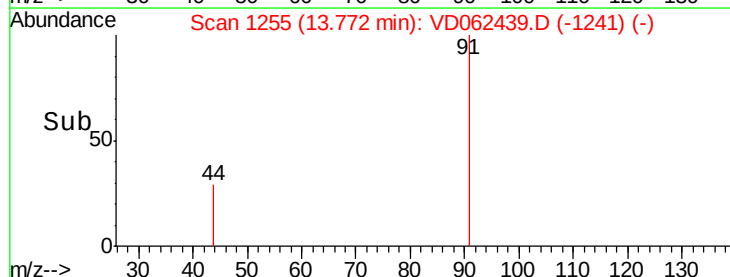
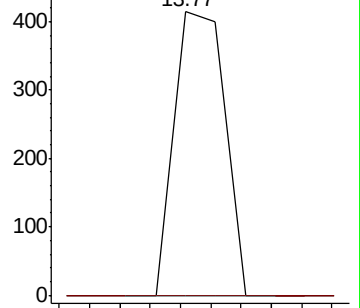
91 100

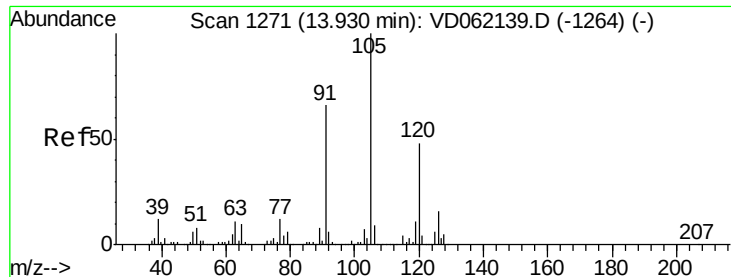
126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#80

1,3,5-Trimethylbenzene

Concen: 2.577 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD062439.D

Acq: 17 May 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

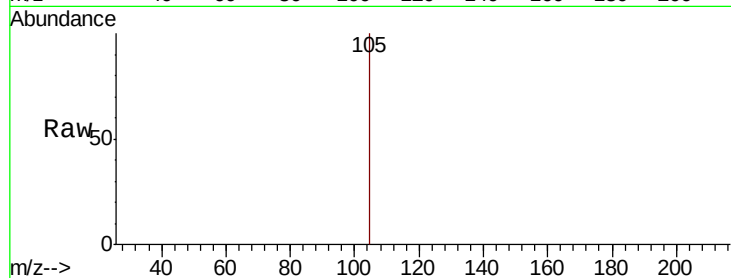
RO-COMP-1RE

Tot Ion:105 Resp: 654

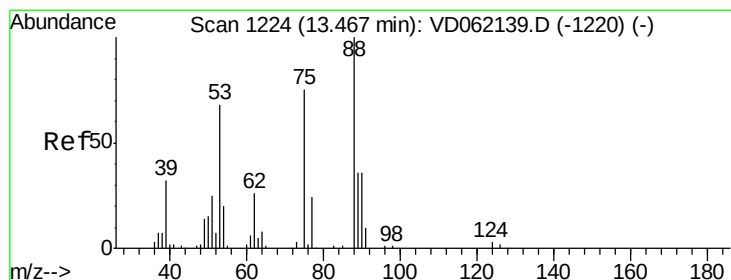
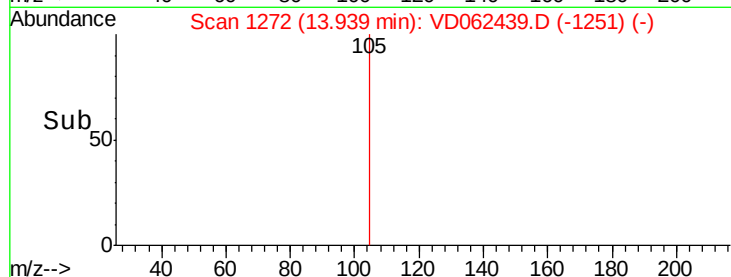
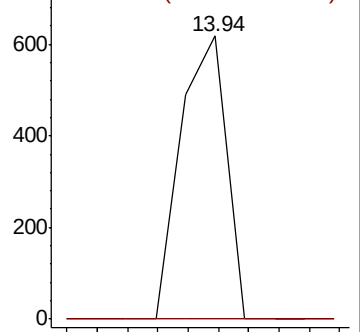
Ion Ratio Lower Upper

105 100

120 0.0 24.0 72.0#



Abundance Ion 105.05 (104.75 to 105.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 75.835 ug/l

RT: 13.56 min Scan# 1234

Delta R.T. 0.10 min

Lab File: VD062439.D

Acq: 17 May 2019 15:09

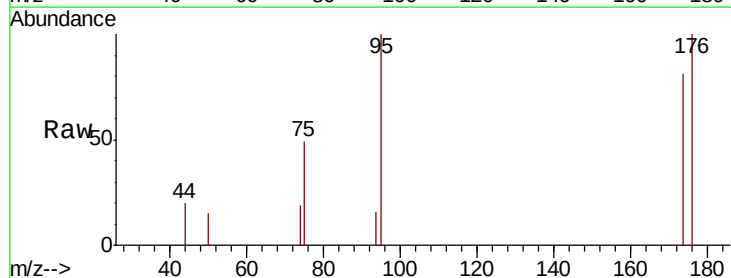
Tgt Ion: 75 Resp: 1279

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

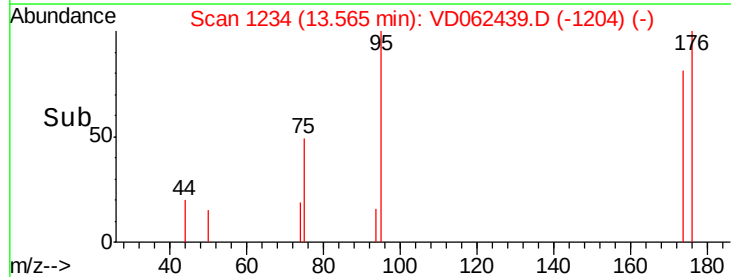
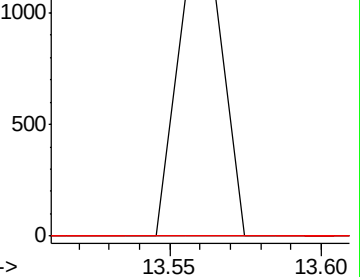
89 0.0 35.0 52.6#

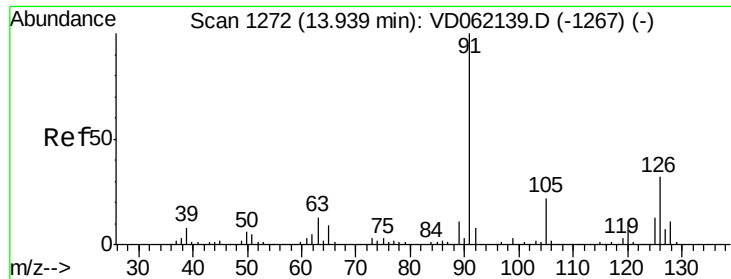


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: 1.981 ug/l

RT: 13.77 min Scan# 1255

Delta R.T. -0.17 min

Lab File: VD062439.D

Acq: 17 May 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

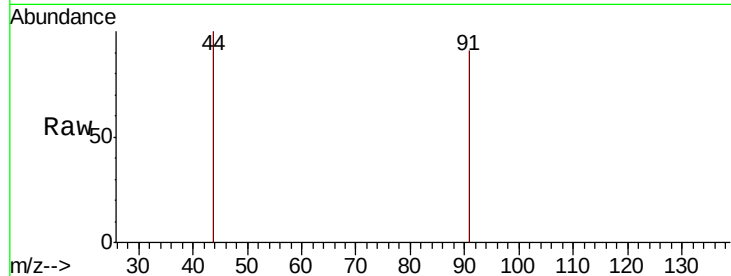
RO-COMP-1RE

Tot Ion: 91 Resp: 480

Ion Ratio Lower Upper

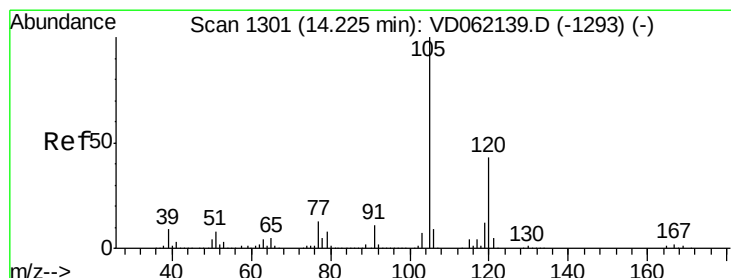
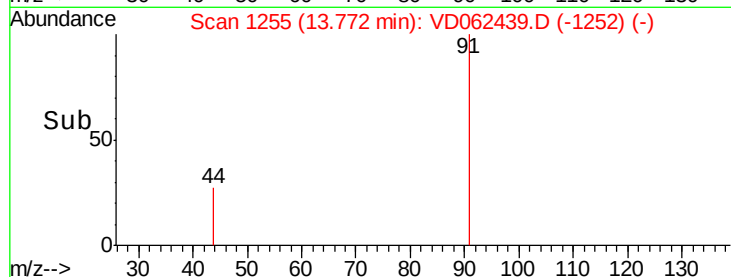
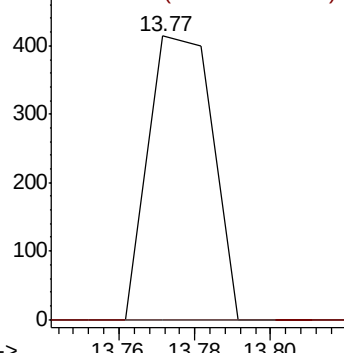
91 100

126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#84

1,2,4-Trimethylbenzene

Concen: 5.777 ug/l

RT: 14.24 min Scan# 1303

Delta R.T. 0.02 min

Lab File: VD062439.D

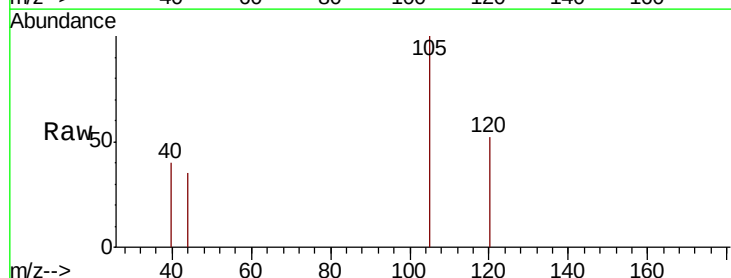
Acq: 17 May 2019 15:09

Tgt Ion:105 Resp: 1471

Ion Ratio Lower Upper

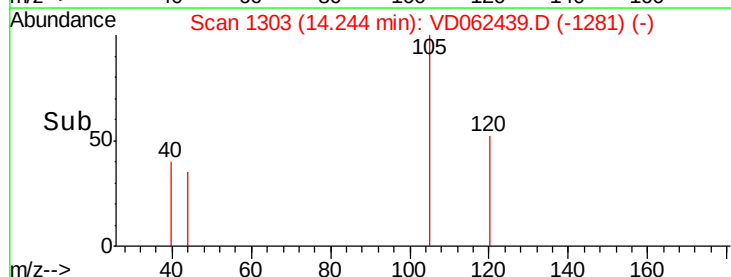
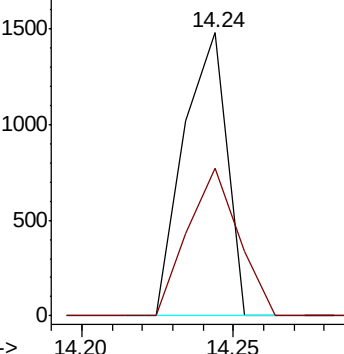
105 100

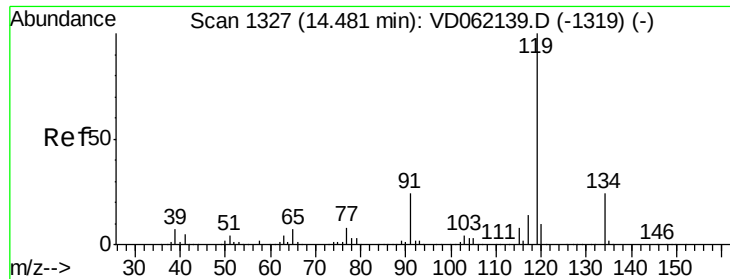
120 52.1 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

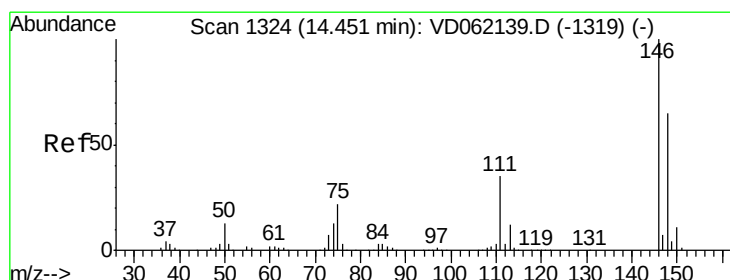
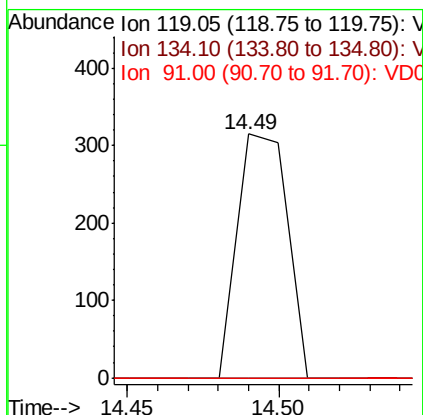
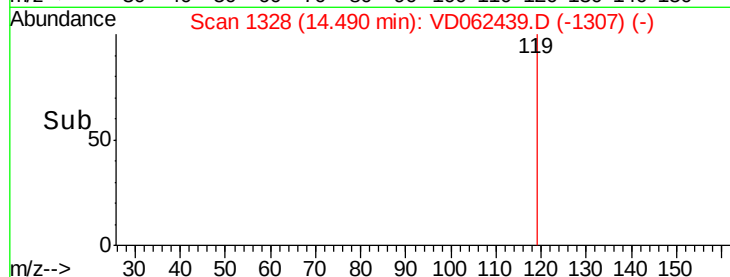
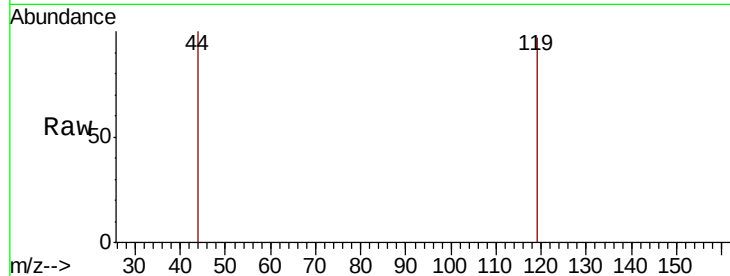




#86
 p-Isopropyltoluene
 Concen: 1.310 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

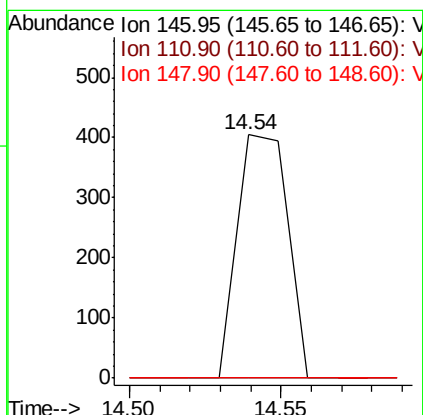
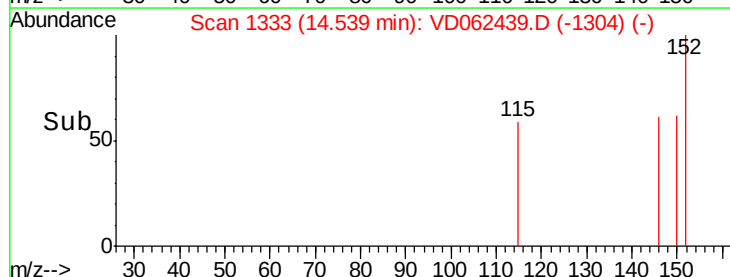
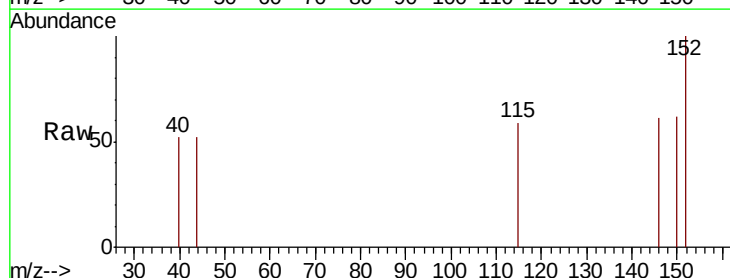
Instrument :
 MSVOA_D
 ClientSampleId :
 RO-COMP-1RE

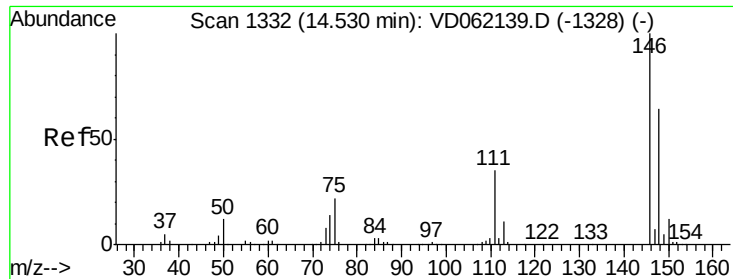
Tot Ion:119 Resp: 366
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.8 38.3#
 91 0.0 10.7 32.1#



#87
 1,3-Dichlorobenzene
 Concen: 3.063 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.09 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

Tgt Ion:146 Resp: 472
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.0 60.0#
 148 0.0 31.8 95.4#

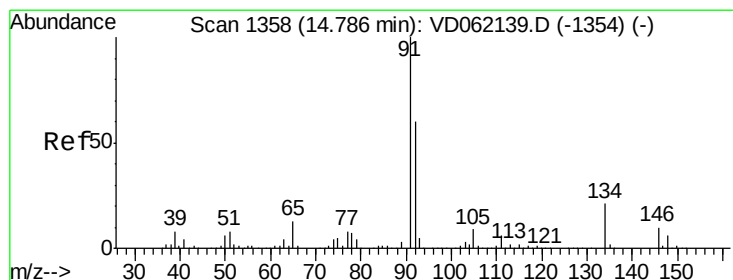
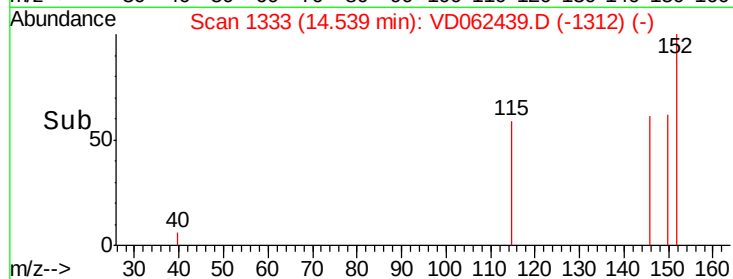
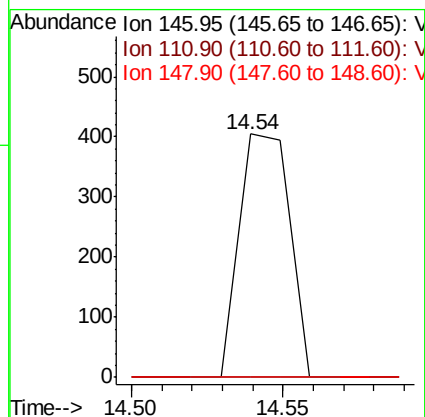
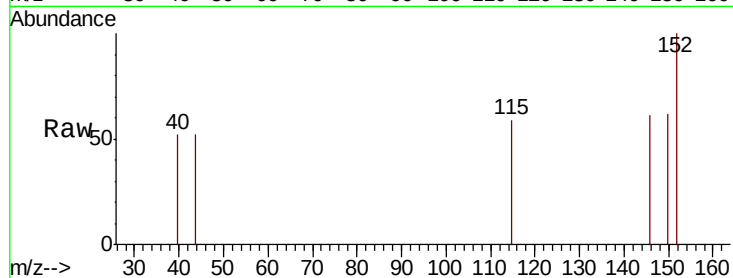




#88
 1,4-Dichlorobenzene
 Concen: 3.117 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

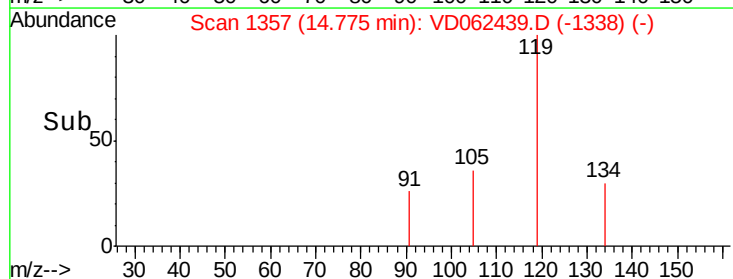
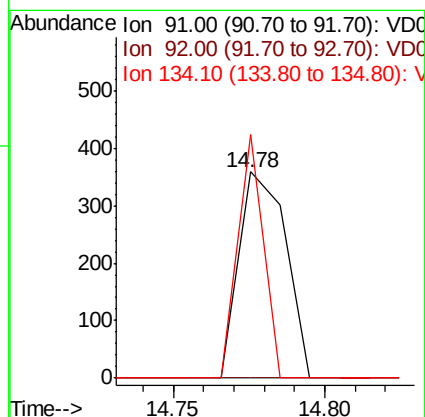
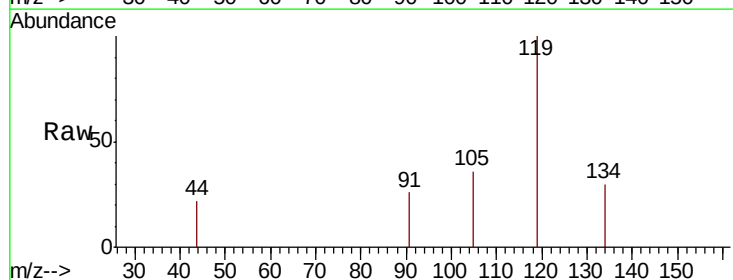
Instrument :
 MSVOA_D
 ClientSampleId :
 RO-COMP-1RE

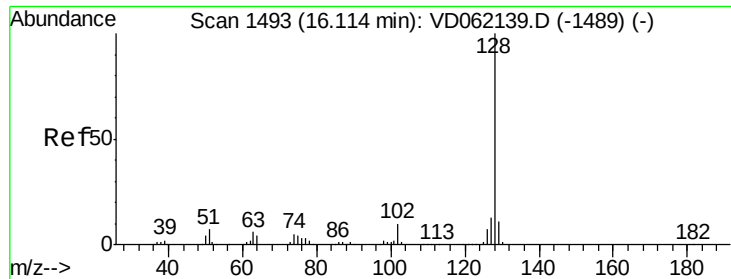
Tot Ion:146 Resp: 472
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.2 60.5#
 148 0.0 32.0 96.2#



#89
 n-Butylbenzene
 Concen: 1.555 ug/l
 RT: 14.78 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

Tgt Ion: 91 Resp: 390
 Ion Ratio Lower Upper
 91 100
 92 0.0 30.3 91.0#
 134 118.1 14.5 43.6#





#95
 Naphthalene
 Concen: 3.792 ug/l
 RT: 16.12 min Scan# 1494
 Delta R.T. 0.01 min
 Lab File: VD062439.D
 Acq: 17 May 2019 15:09

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-COMP-1RE

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.8	14.8#
129	0.0	8.8	13.2#

