

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042219\
 Data File : VD061945.D
 Acq On : 22 Apr 2019 18:15
 Operator : VA/AP
 Sample : K2202-03
 Misc : 5.44g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 22 23:33:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	15566	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.19	114	22408	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.38	117	38338	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	5126	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	6142	47.08	ug/l	0.01
Spiked Amount			Recovery	=	94.16%	
35) Dibromofluoromethane	6.92	113	985	5.82	ug/l	0.00
Spiked Amount			Recovery	=	11.64%	
50) Toluene-d8	10.40	98	38576	96.17	ug/l	0.00
Spiked Amount			Recovery	=	192.34%	
62) 4-Bromofluorobenzene	13.56	95	8316	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	

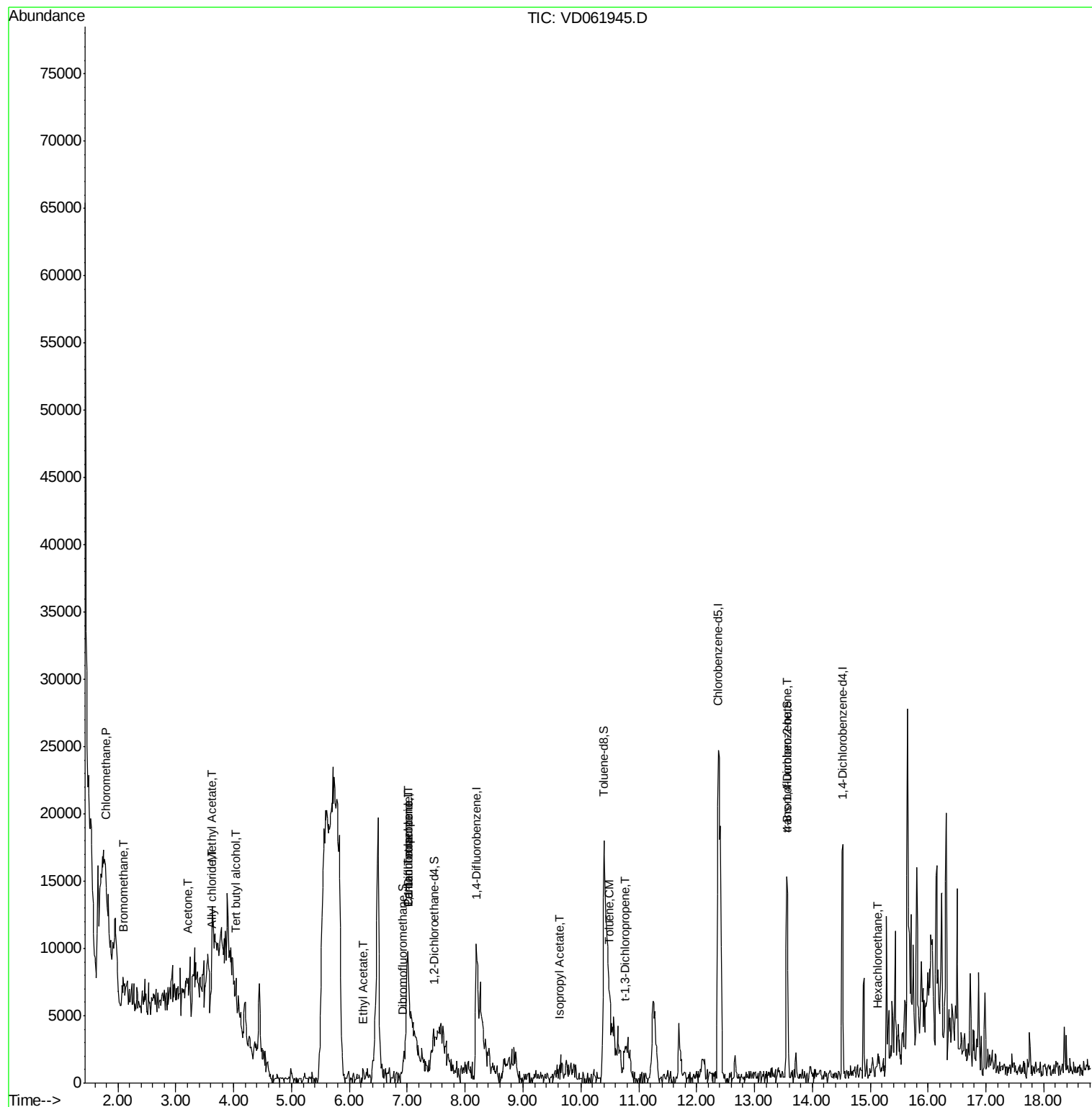
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.79	50	10567	87.273	ug/l #	76
5) Bromomethane	2.10	94	1322	49.092	ug/l #	48
11) Tert butyl alcohol	4.04	59	213	27.686	ug/l #	76
14) Allyl chloride	3.61	41	802	4.028	ug/l #	50
16) Acetone	3.20	43	502	15.613	ug/l #	50
18) Methyl Acetate	3.64	43	18762	291.134	ug/l	97
36) 1,1-Dichloropropene	7.01	75	448	2.447	ug/l #	40
37) Ethyl Acetate	6.25	43	1171	14.942	ug/l #	64
38) Carbon Tetrachloride	7.00	117	445	1.925	ug/l #	12
43) Isopropyl Acetate	9.63	43	575	5.214	ug/l #	43
52) Toluene	10.50	92	487	1.729	ug/l	93
53) t-1,3-Dichloropropene	10.76	75	2091	12.328	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.56	75	3462	151.446	ug/l #	16
90) Hexachloroethane	15.13	117	219	2.682	ug/l #	20

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

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Quant Title : SW846 8260
QLast Update : Thu Apr 18 13:49:04 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.04 min

Lab File: VD061945.D

Acq: 22 Apr 2019 18:15

Instrument :

MSVOA_D

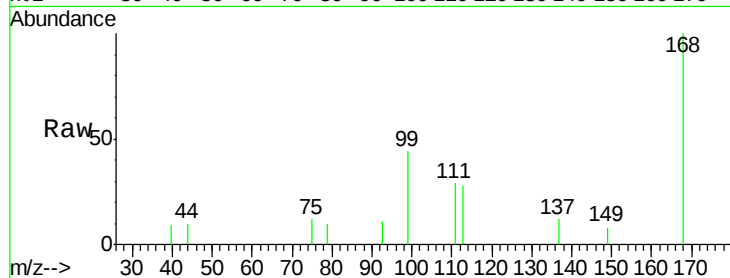
ClientSampleId :

Tot Ion:168 Resp: 15566

Ion Ratio Lower Upper

168 100

99 43.6 46.5 69.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.01

4000

3000

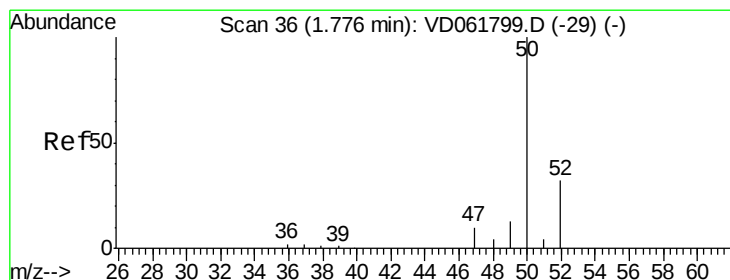
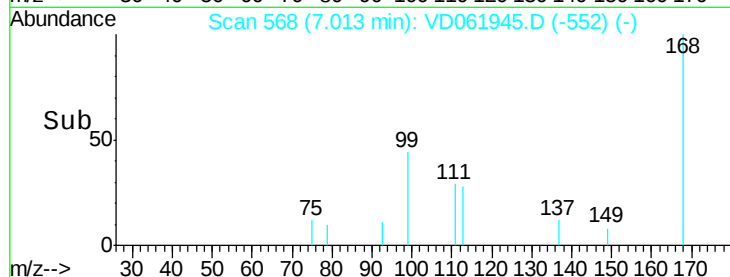
2000

1000

0

6.90 7.00 7.10 7.20

Time-->



#3

Chloromethane

Concen: 87.273 ug/l

RT: 1.79 min Scan# 37

Delta R.T. 0.03 min

Lab File: VD061945.D

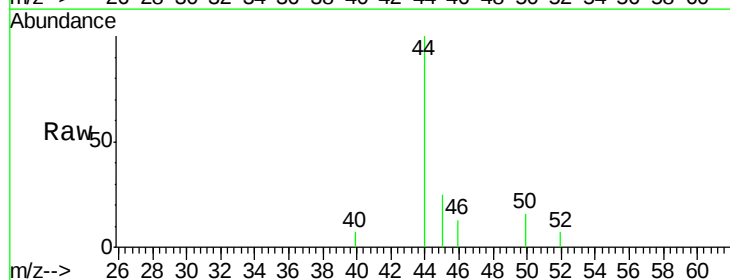
Acq: 22 Apr 2019 18:15

Tgt Ion: 50 Resp: 10567

Ion Ratio Lower Upper

50 100

52 45.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.79

1500

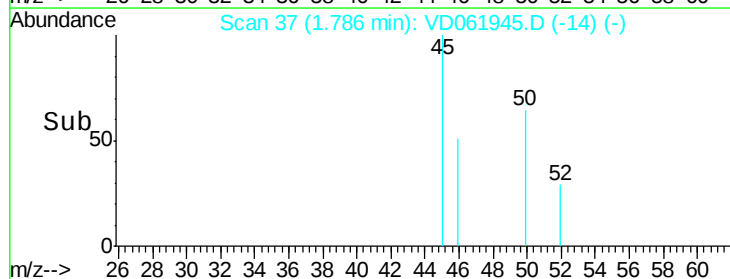
1000

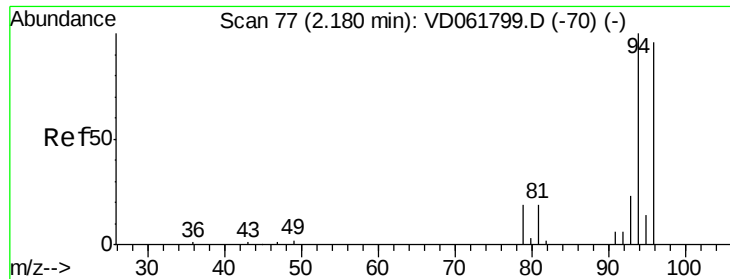
500

0

1.60 1.70 1.80

Time-->





#5

Bromomethane

Concen: 49.092 ug/l

RT: 2.10 min Scan# 69

Delta R.T. -0.05 min

Lab File: VD061945.D

Acq: 22 Apr 2019 18:15

Instrument :

MSVOA_D

ClientSampleId :

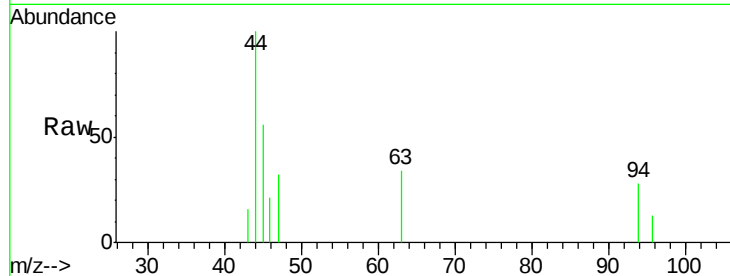
Tot Ion: 94 Resp: 1322

Ion Ratio Lower Upper

94 100

96 44.0 76.6 115.0#

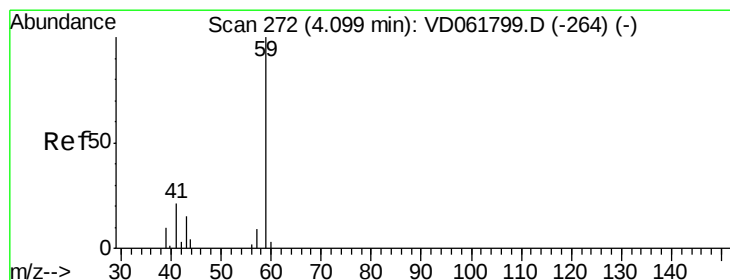
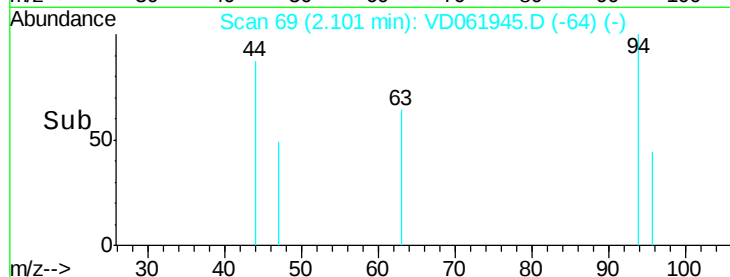
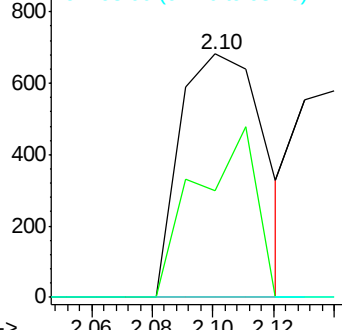
93 0.0 18.5 27.7#



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



#11

Tert butyl alcohol

Concen: 27.686 ug/l

RT: 4.04 min Scan# 266

Delta R.T. -0.02 min

Lab File: VD061945.D

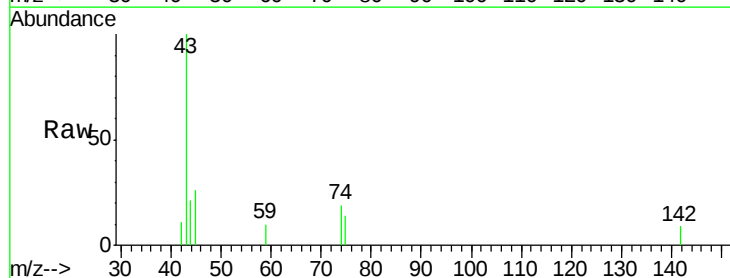
Acq: 22 Apr 2019 18:15

Tgt Ion: 59 Resp: 213

Ion Ratio Lower Upper

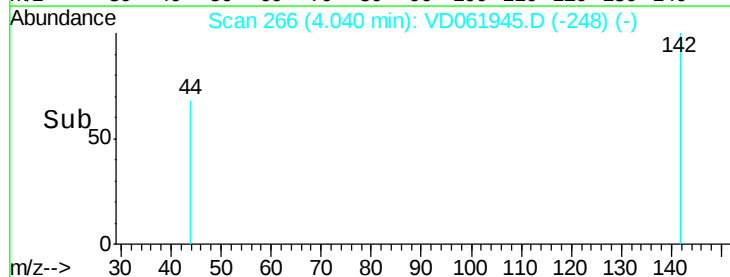
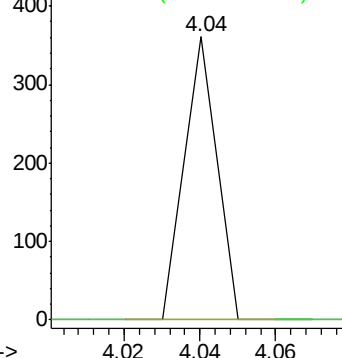
59 100

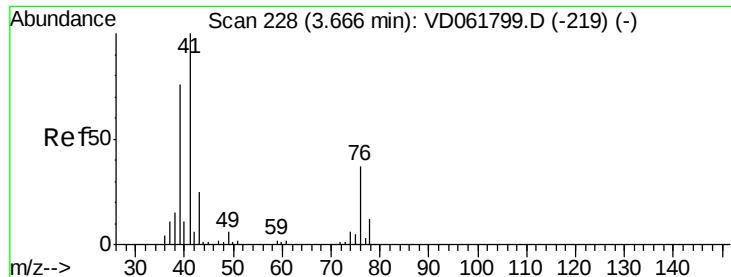
57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#14

Allvl chloride

Concen: 4.028 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.02 min

Lab File: VD061945.D

Acq: 22 Apr 2019 18:15

Instrument :

MSVOA_D

ClientSampled :

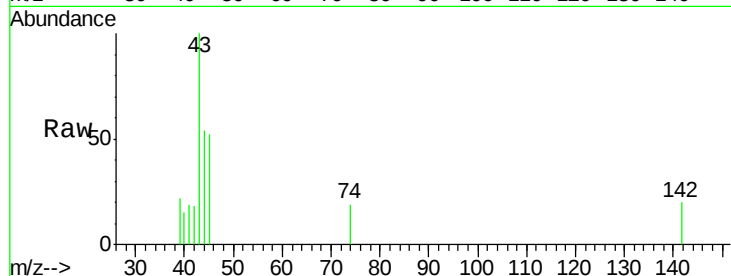
Tot Ion: 41 Resp: 802

Ion Ratio Lower Upper

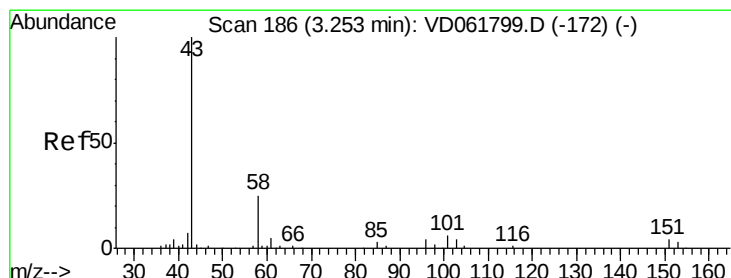
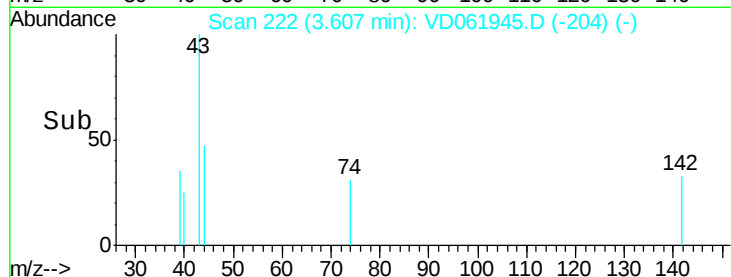
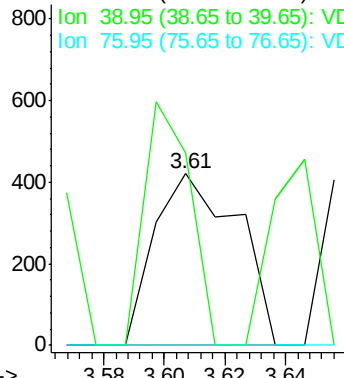
41 100

39 112.4 60.5 90.7#

76 0.0 31.8 47.8#



Abundance Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 75.95 (75.65 to 76.65): VDC



#16

Acetone

Concen: 15.613 ug/l

RT: 3.20 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD061945.D

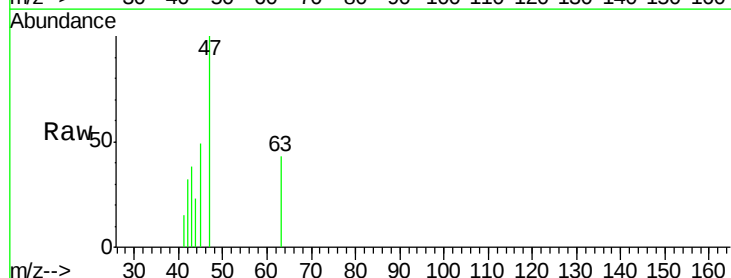
Acq: 22 Apr 2019 18:15

Tgt Ion: 43 Resp: 502

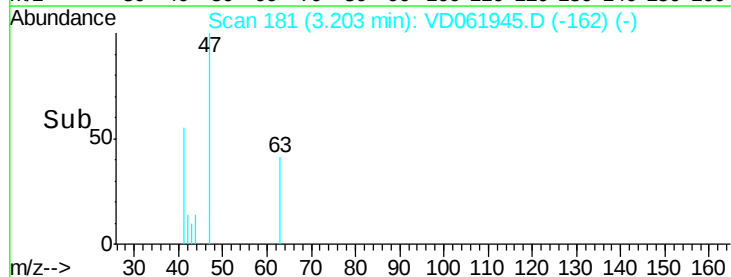
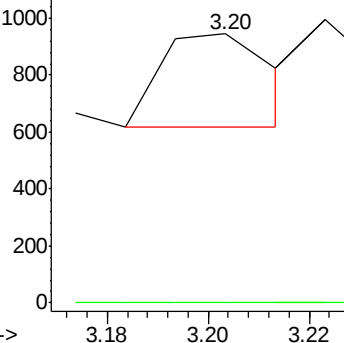
Ion Ratio Lower Upper

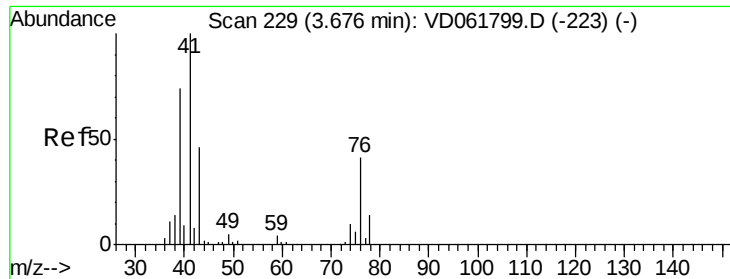
43 100

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

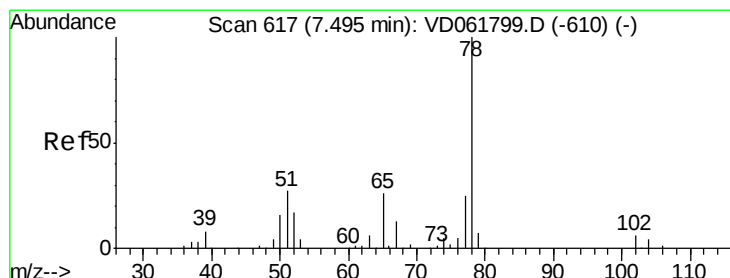
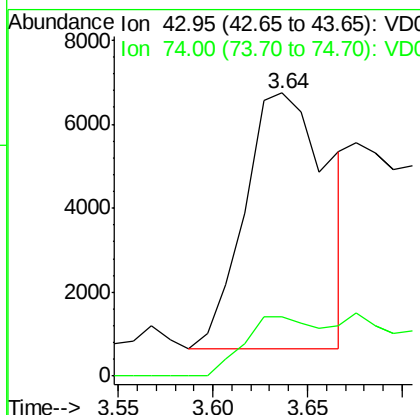
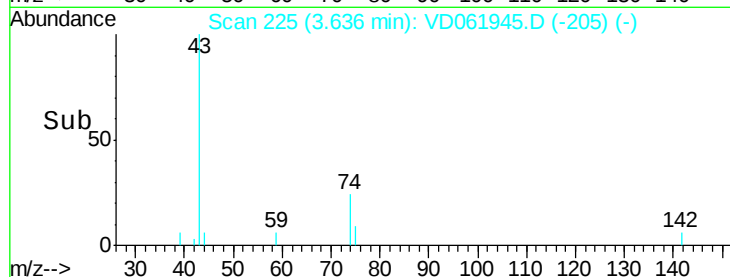
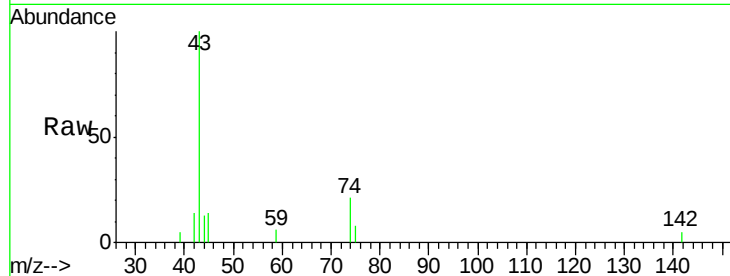




#18
Methyl Acetate
Concen: 291.134 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.00 min
Lab File: VD061945.D
Acq: 22 Apr 2019 18:15

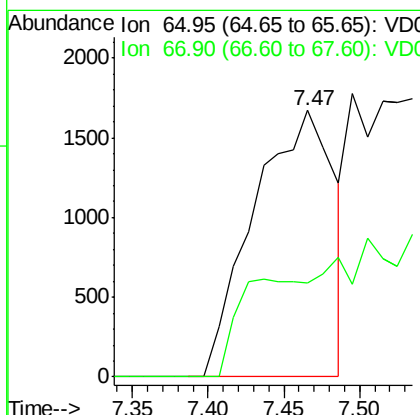
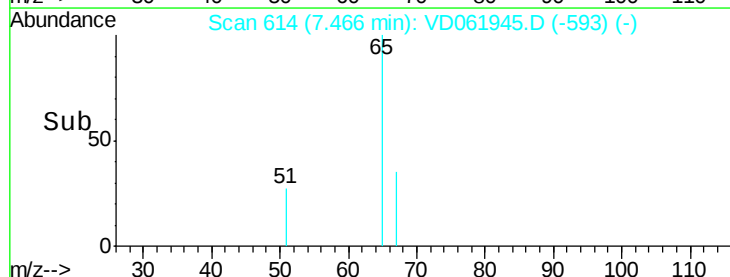
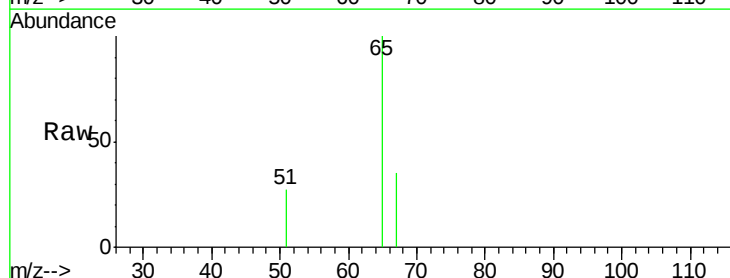
Instrument :
MSVOA_D
ClientSampleId :

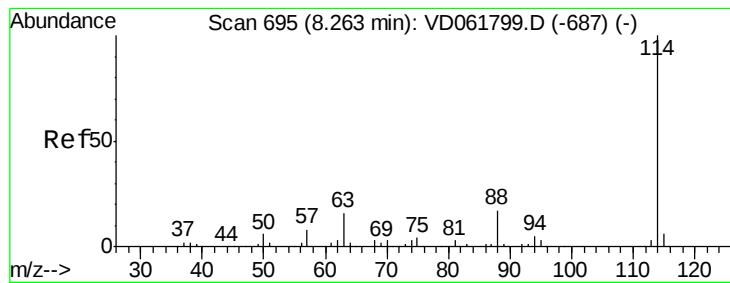
Tot Ion: 43 Resp: 18762
Ion Ratio Lower Upper
43 100
74 21.2 18.0 27.0



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.01 min
Lab File: VD061945.D
Acq: 22 Apr 2019 18:15

Tgt Ion: 65 Resp: 6142
Ion Ratio Lower Upper
65 100
67 35.2 0.0 98.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 688

Delta R.T. -0.03 min

Lab File: VD061945.D

Acq: 22 Apr 2019 18:15

Instrument :

MSVOA_D

ClientSampleId :

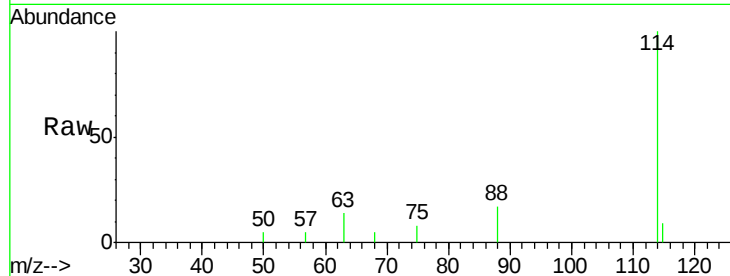
Tot Ion:114 Resp: 22408

Ion Ratio Lower Upper

114 100

63 14.2 0.0 32.4

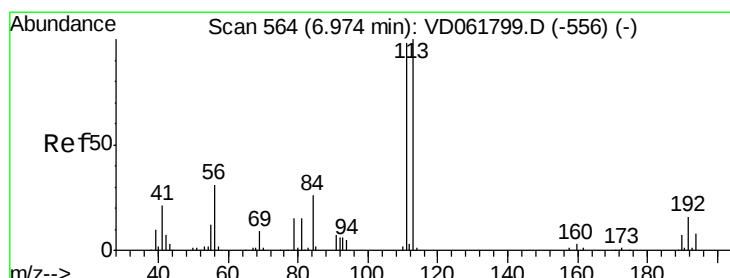
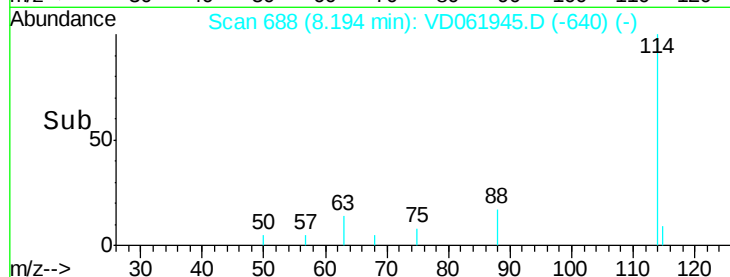
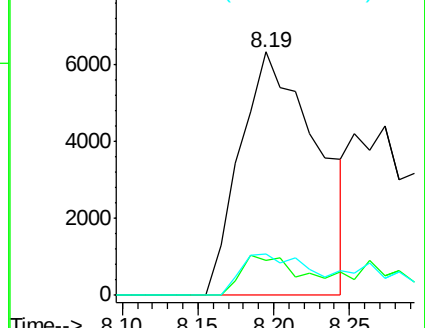
88 16.8 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD061945.D

Acq: 22 Apr 2019 18:15

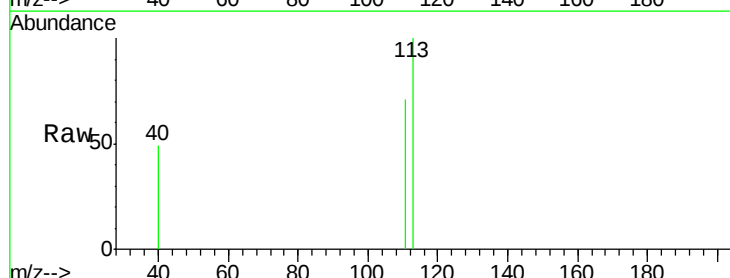
Tgt Ion:113 Resp: 985

Ion Ratio Lower Upper

113 100

111 71.3 78.5 117.7#

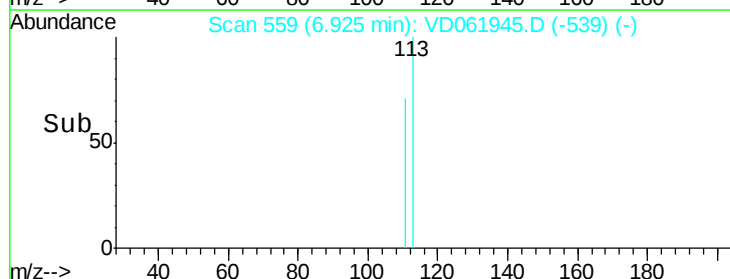
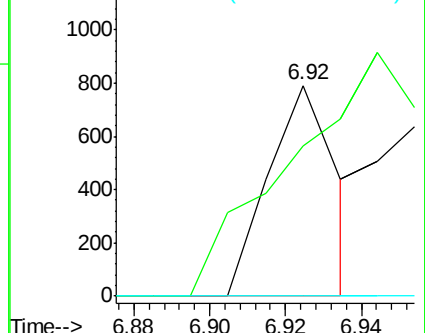
192 0.0 13.0 19.4#

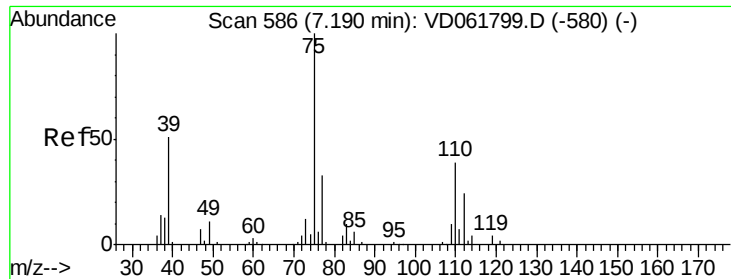


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 2.447 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.14 min

Lab File: VD061945.D

Acq: 22 Apr 2019 18:15

Instrument :

MSVOA_D

ClientSampled :

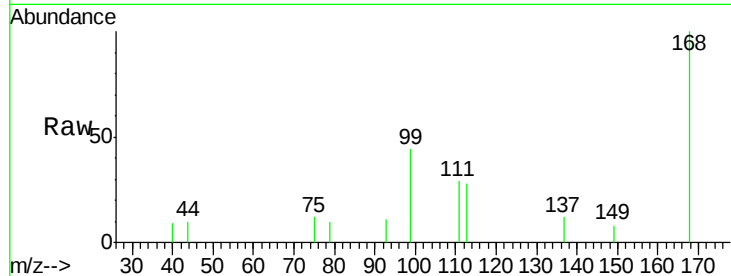
Tot Ion: 75 Resp: 448

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

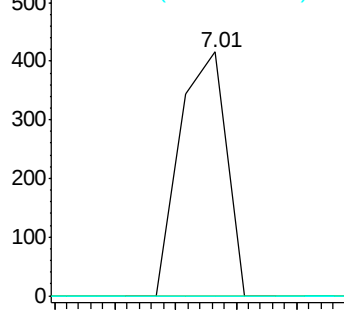
77 0.0 25.6 38.4#



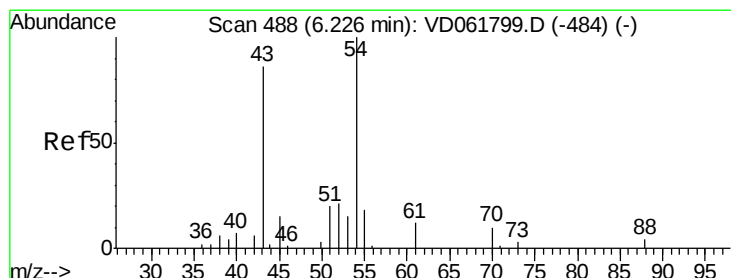
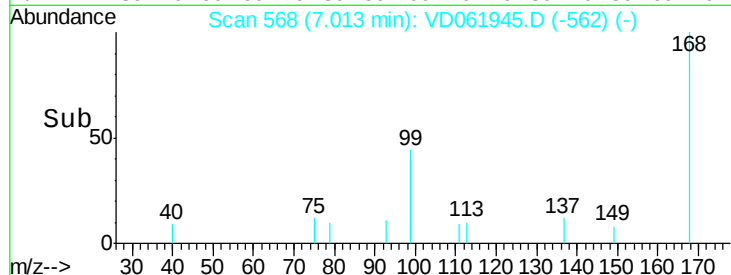
Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



Time--> 6.96 6.98 7.00 7.02 7.04



#37

Ethyl Acetate

Concen: 14.942 ug/l

RT: 6.25 min Scan# 490

Delta R.T. 0.07 min

Lab File: VD061945.D

Acq: 22 Apr 2019 18:15

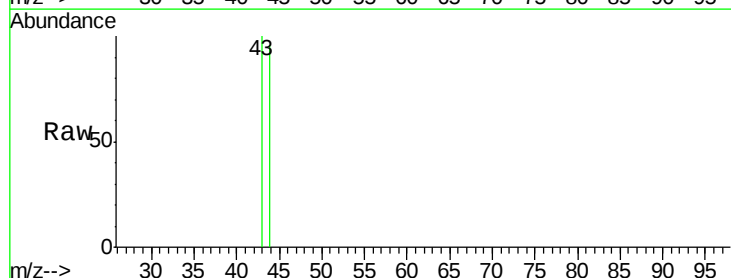
Tgt Ion: 43 Resp: 1171

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

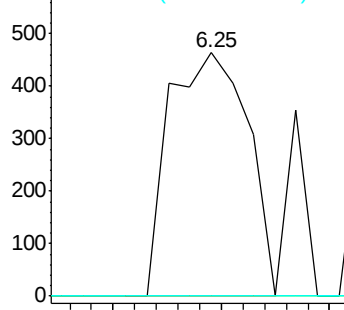
70 0.0 7.8 11.6#



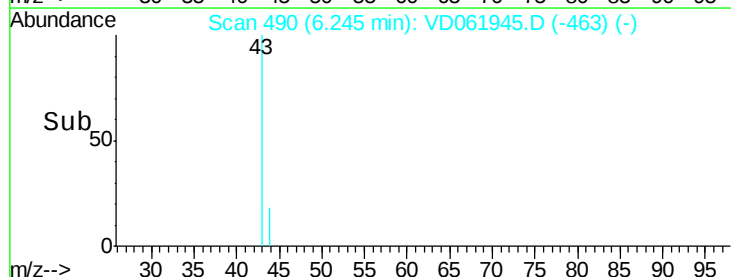
Abundance Ion 42.95 (42.65 to 43.65): VDC

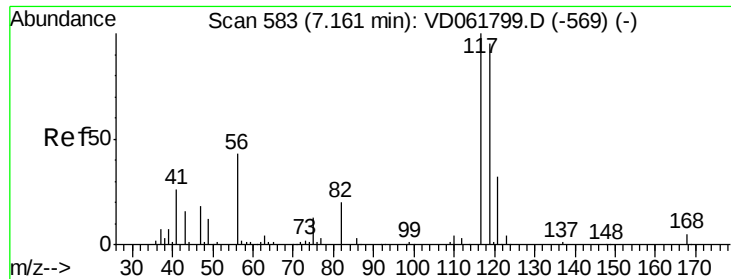
Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



Time--> 6.20 6.25





#38

Carbon Tetrachloride

Concen: 1.925 ug/l

RT: 7.00 min Scan# 567

Delta R.T. -0.11 min

Lab File: VD061945.D

Acq: 22 Apr 2019 18:15

Instrument :

MSVOA_D

ClientSampleId :

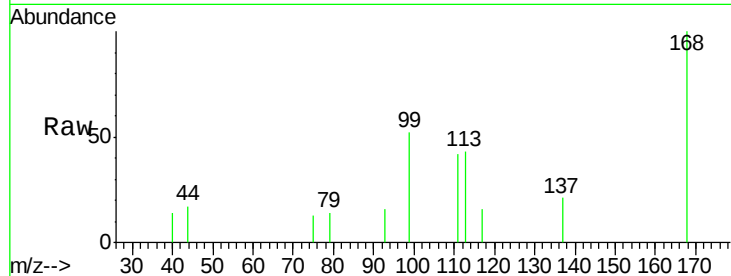
Tot Ion:117 Resp: 445

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

7.00

400

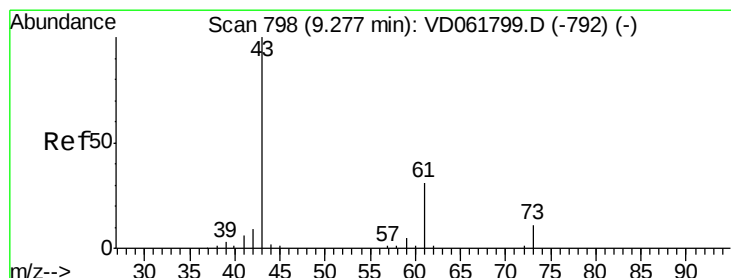
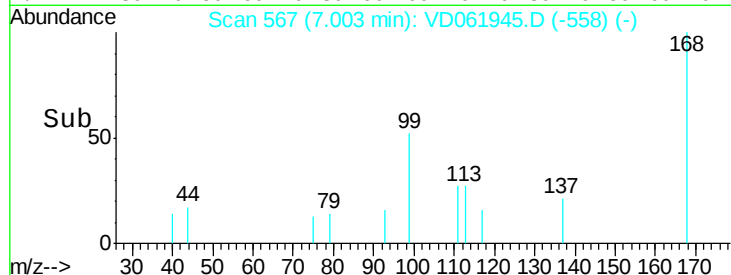
300

200

100

0

Time--> 6.96 6.98 7.00 7.02 7.04



#43

Isopropyl Acetate

Concen: 5.214 ug/l

RT: 9.63 min Scan# 834

Delta R.T. 0.39 min

Lab File: VD061945.D

Acq: 22 Apr 2019 18:15

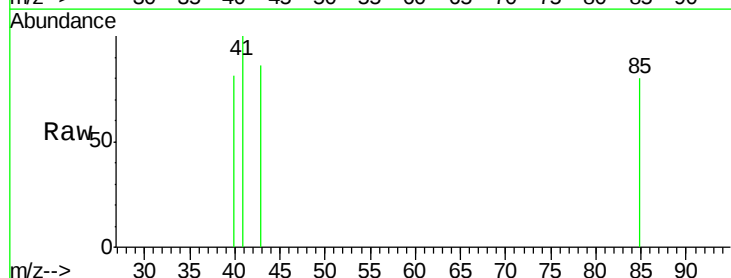
Tgt Ion: 43 Resp: 575

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): V

Ion 60.95 (60.65 to 61.65): V

Ion 87.00 (86.70 to 87.70): V

9.63

400

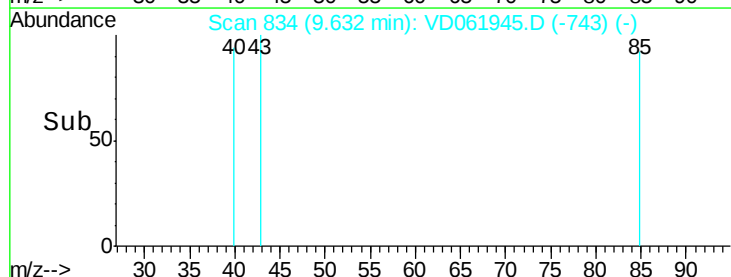
300

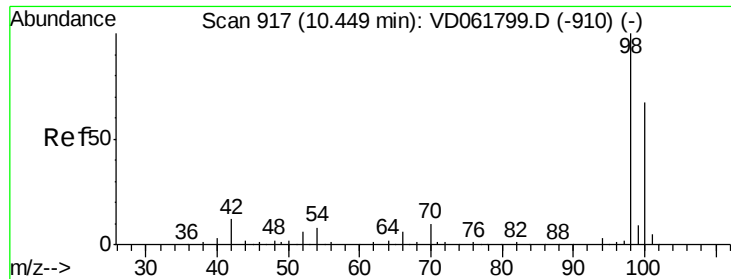
200

100

0

Time--> 9.60 9.62 9.64 9.66

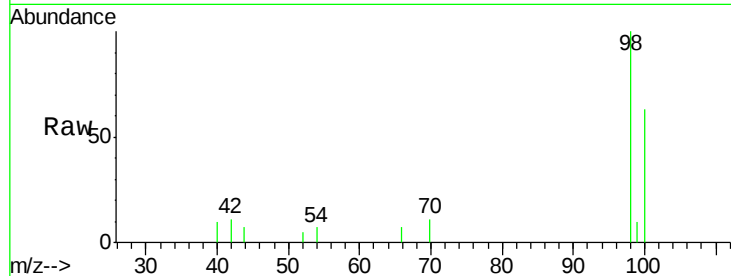




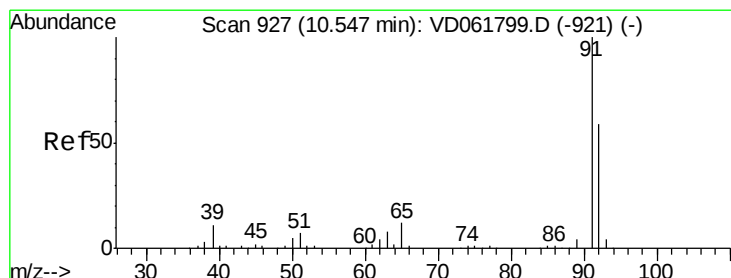
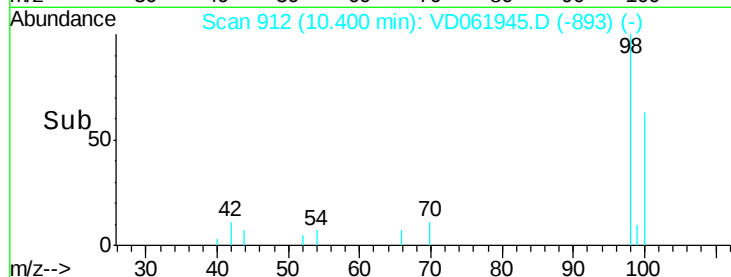
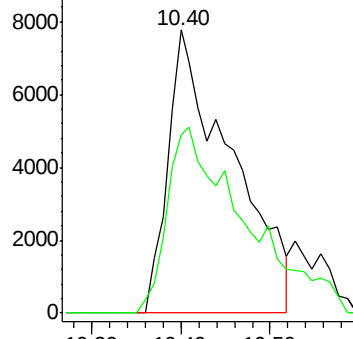
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD061945.D
Acq: 22 Apr 2019 18:15

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 38576
Ion Ratio Lower Upper
98 100
100 63.0 53.8 80.8

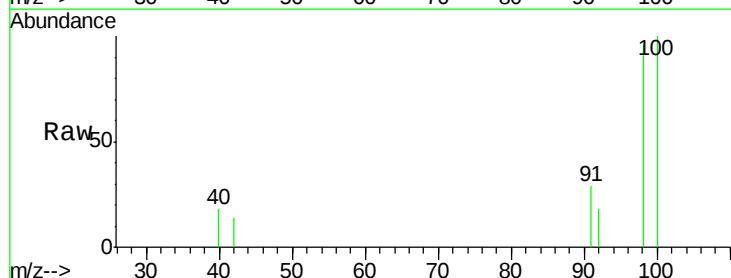


Abundance Ion 98.05 (97.75 to 98.75): VD061799.D (-910) (-)
Ion 100.05 (99.75 to 100.75): VD061799.D (-910) (-)

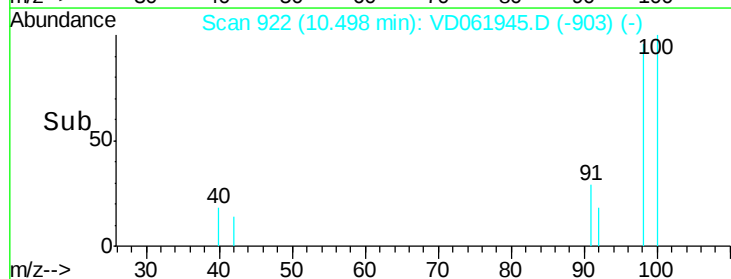
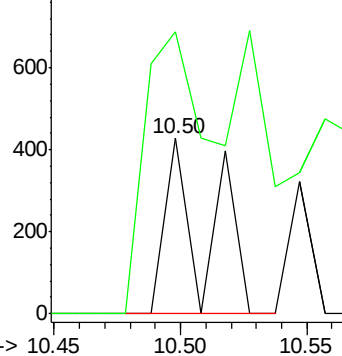


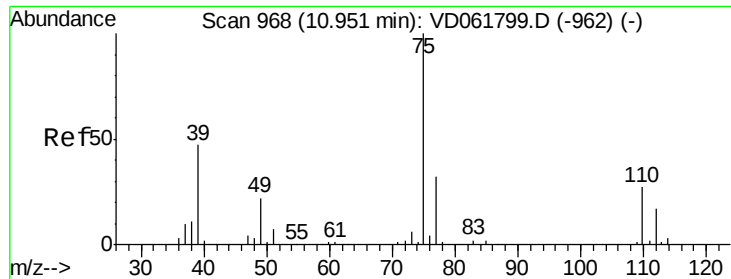
#52
Toluene
Concen: 1.729 ug/l
RT: 10.50 min Scan# 922
Delta R.T. -0.01 min
Lab File: VD061945.D
Acq: 22 Apr 2019 18:15

Tgt Ion: 92 Resp: 487
Ion Ratio Lower Upper
92 100
91 160.7 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VD061799.D (-921) (-)
Ion 91.00 (90.70 to 91.70): VD061799.D (-921) (-)

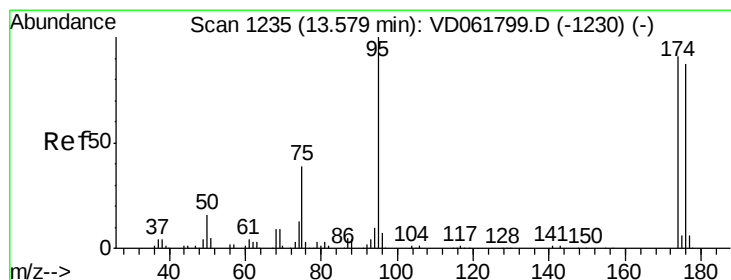
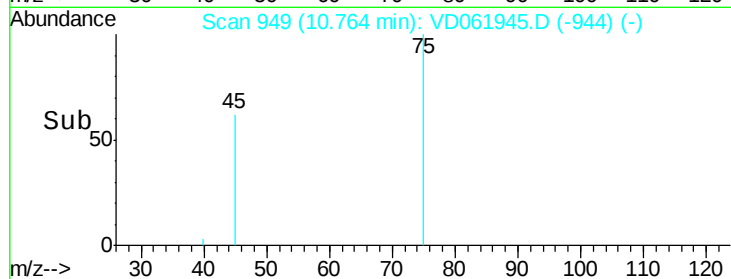
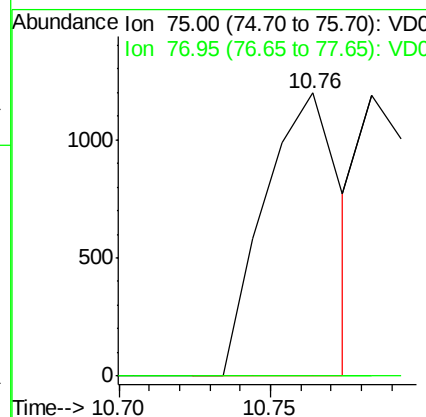
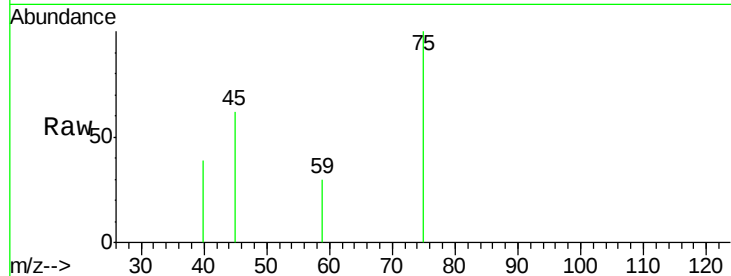




#53
 t-1,3-Dichloropropene
 Concen: 12.328 ug/l
 RT: 10.76 min Scan# 949
 Delta R.T. -0.15 min
 Lab File: VD061945.D
 Acq: 22 Apr 2019 18:15

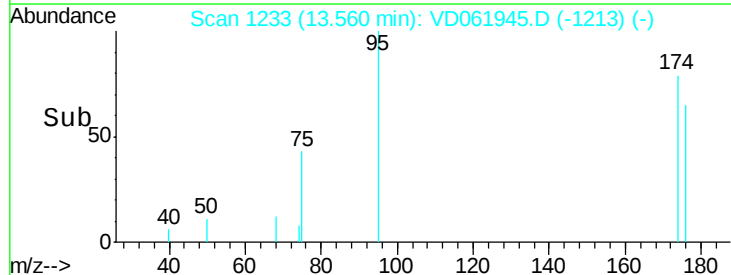
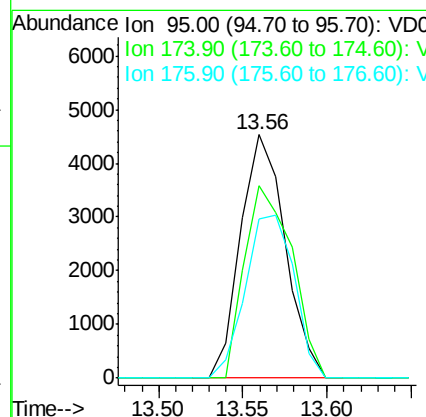
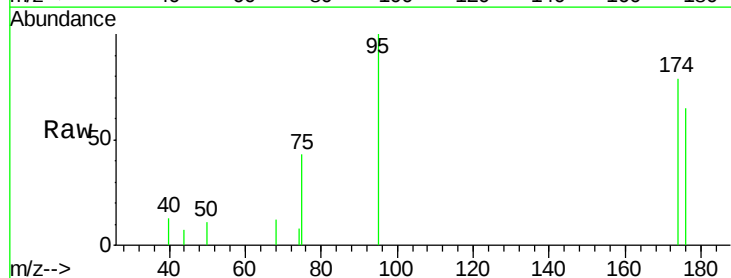
Instrument :
 MSVOA_D
 ClientSampleId :

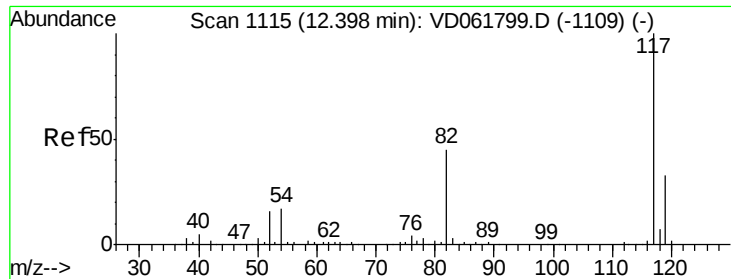
Tot Ion: 75 Resp: 2091
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.8#



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VD061945.D
 Acq: 22 Apr 2019 18:15

Tgt Ion: 95 Resp: 8316
 Ion Ratio Lower Upper
 95 100
 174 78.9 0.0 181.8
 176 65.2 0.0 174.4

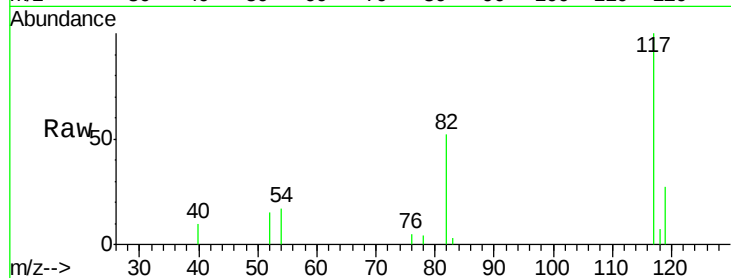




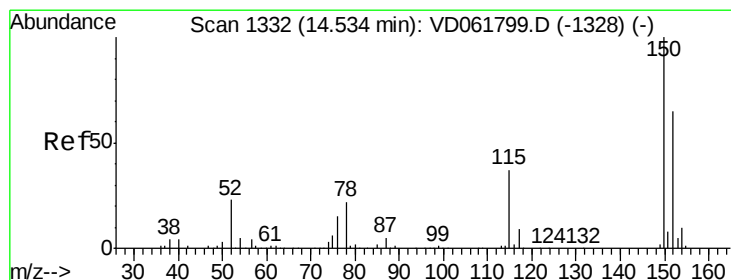
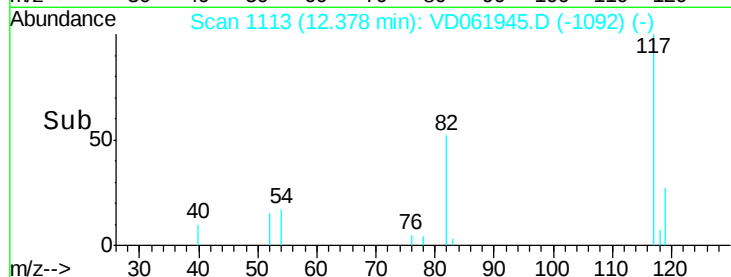
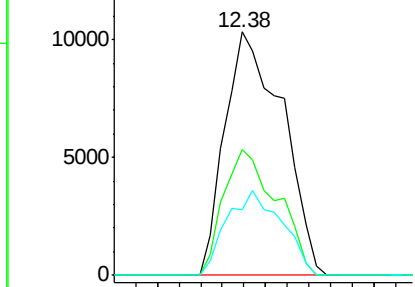
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD061945.D
Acq: 22 Apr 2019 18:15

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 38338
Ion Ratio Lower Upper
117 100
82 51.7 36.2 54.2
119 26.8 26.2 39.4

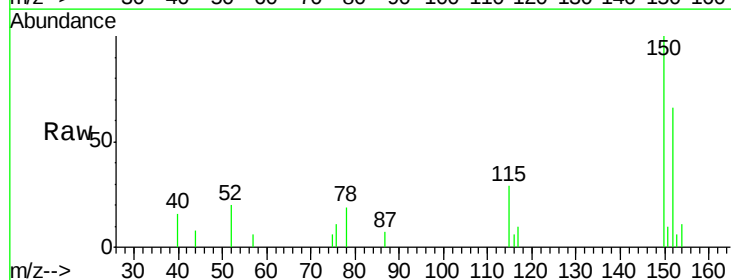


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

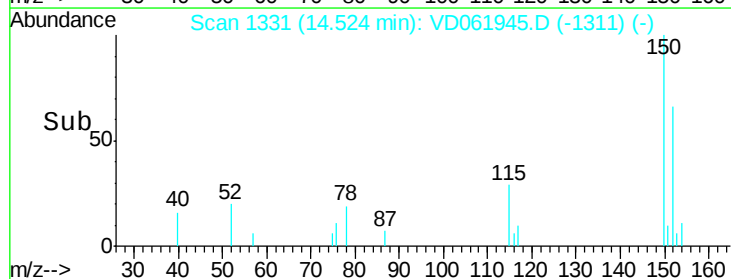
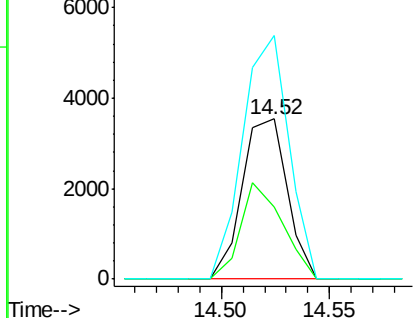


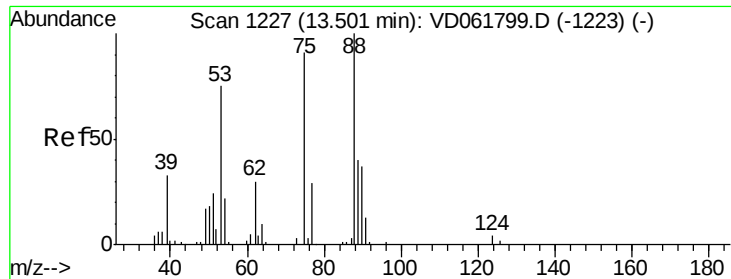
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VD061945.D
Acq: 22 Apr 2019 18:15

Tgt Ion:152 Resp: 5126
Ion Ratio Lower Upper
152 100
115 44.8 30.9 92.7
150 152.3 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





#81

trans-1,4-Dichloro-2-butene

Concen: 151.446 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061945.D

Acq: 22 Apr 2019 18:15

Instrument :

MSVOA_D

ClientSampleId :

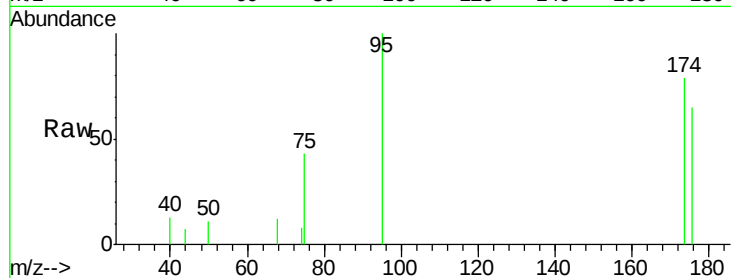
Tot Ion: 75 Resp: 3462

Ion Ratio Lower Upper

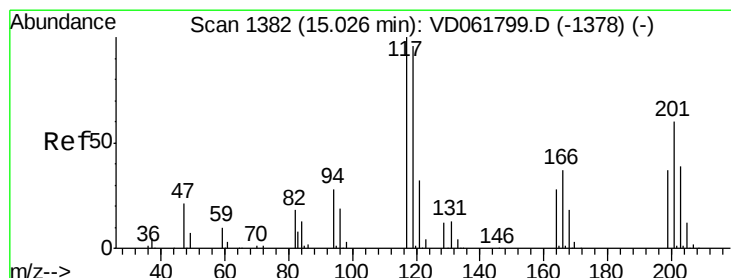
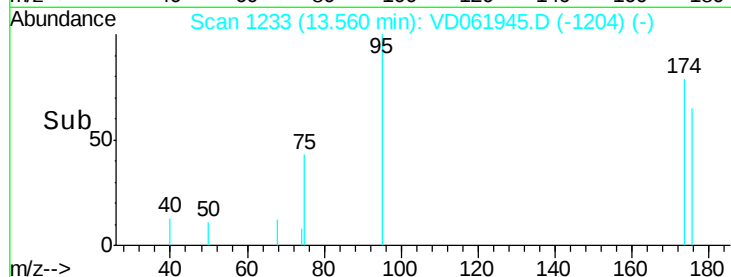
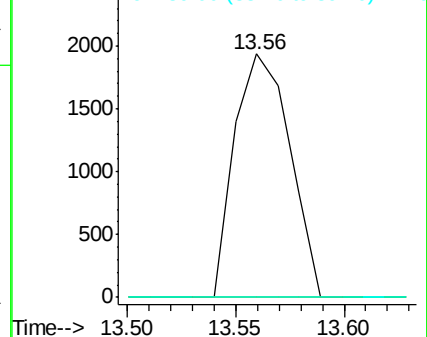
75 100

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



#90

Hexachloroethane

Concen: 2.682 ug/l

RT: 15.13 min Scan# 1393

Delta R.T. 0.13 min

Lab File: VD061945.D

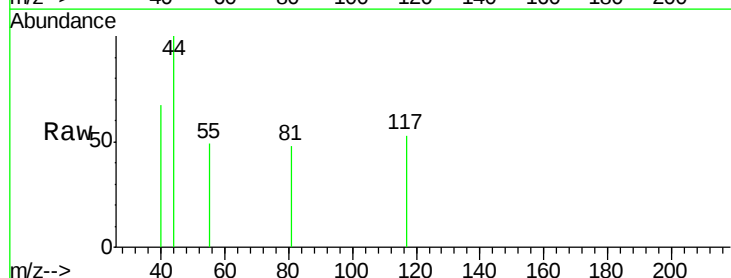
Acq: 22 Apr 2019 18:15

Tgt Ion: 117 Resp: 219

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

