

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058297.D
 Acq On : 22 Jun 2018 15:14
 Operator : VA/AP
 Sample : J3603-23RE
 Misc : 5.91g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 26KV-TP-11RE

Quant Time: Jun 22 15:44:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	599160	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	775393	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.68	117	567425	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	219964	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	326117	53.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.78%	
35) Dibromofluoromethane	5.54	113	335327	53.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.26%	
50) Toluene-d8	8.70	98	724867	47.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.96%	
62) 4-Bromofluorobenzene	11.93	95	253190	40.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	81.18%	

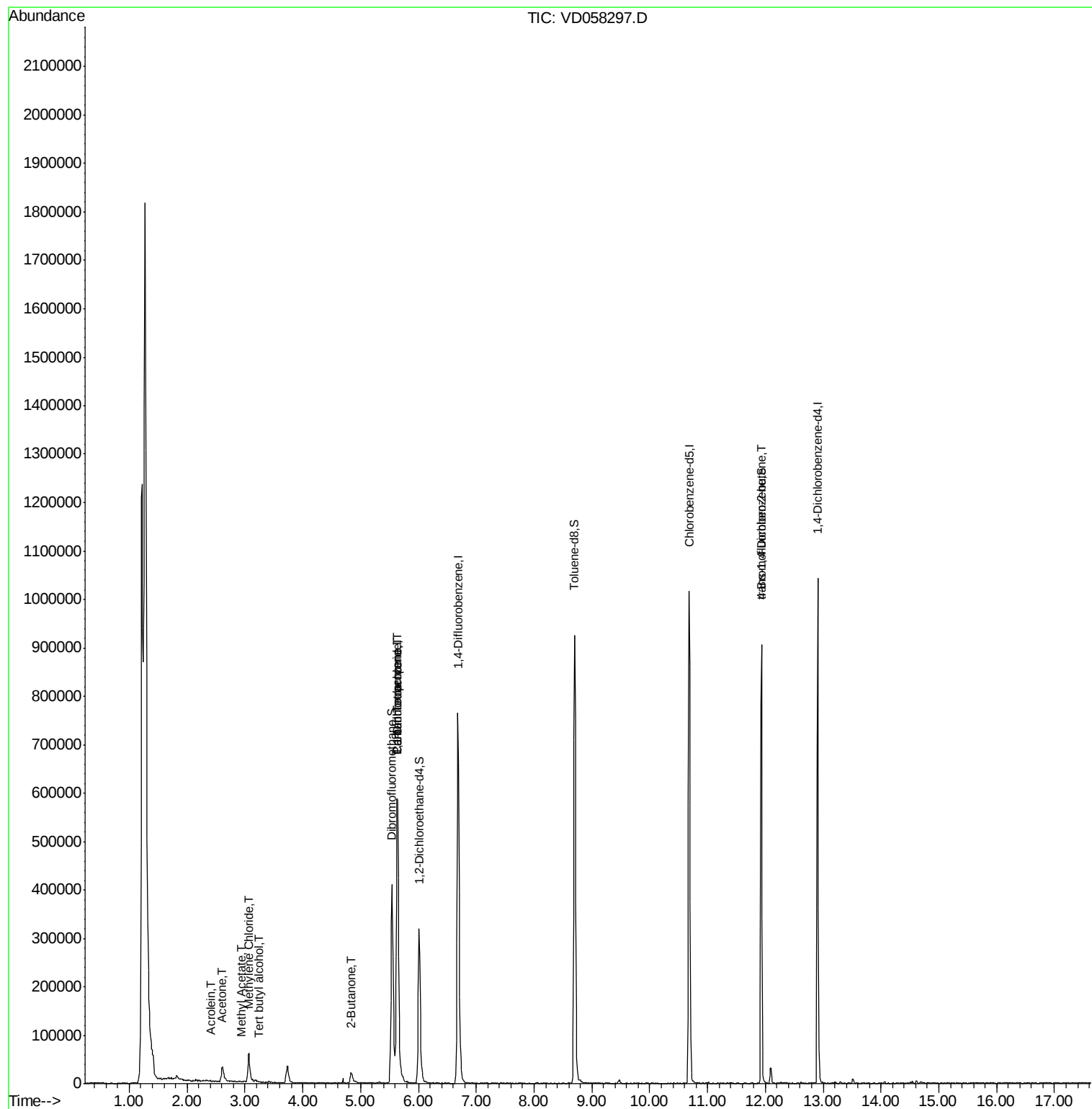
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.34	85	459	Below Cal	#	43
3) Chloromethane	1.52	50	361	Below Cal	#	43
5) Bromomethane	1.80	94	279	Below Cal	#	3
11) Tert butyl alcohol	3.26	59	698	3.50	ug/l	78
13) Acrolein	2.41	56	429	3.76	ug/l	11
16) Acetone	2.61	43	70702	85.42	ug/l	98
18) Methyl Acetate	2.94	43	1791	1.01	ug/l	65
20) Methylene Chloride	3.07	84	29913	10.04	ug/l	97
25) 2-Butanone	4.83	43	6151	3.41	ug/l	60
31) Cyclohexane	5.63	56	14407	Below Cal	#	1
36) 1,1-Dichloropropene	5.63	75	52476	6.84	ug/l	49
38) Carbon Tetrachloride	5.63	117	47531	6.24	ug/l	14
81) trans-1,4-Dichloro-2-buten	11.92	75	125482	160.20	ug/l	1
82) 4-Chlorotoluene	12.31	91	991	Below Cal	#	45

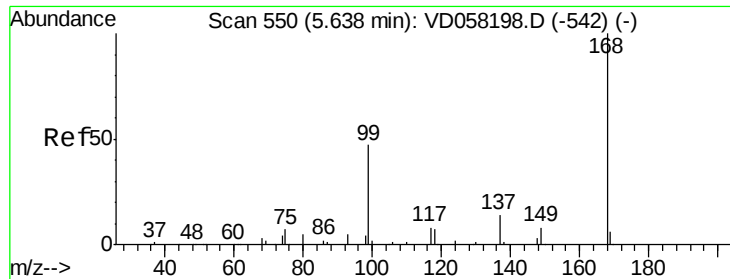
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.00 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

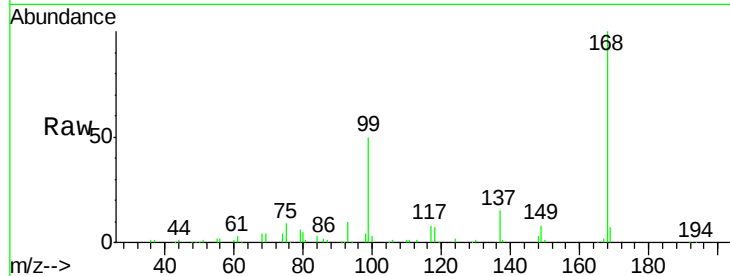
26KV-TP-11RE

Tot Ion:168 Resp: 599160

Ion Ratio Lower Upper

168 100

99 50.4 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.64

250000

200000

150000

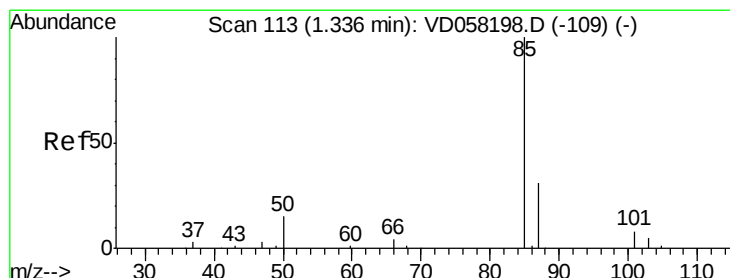
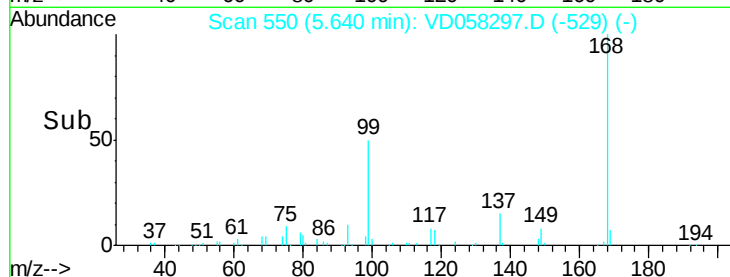
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.34 min Scan# 113

Delta R.T. 0.00 min

Lab File: VD058297.D

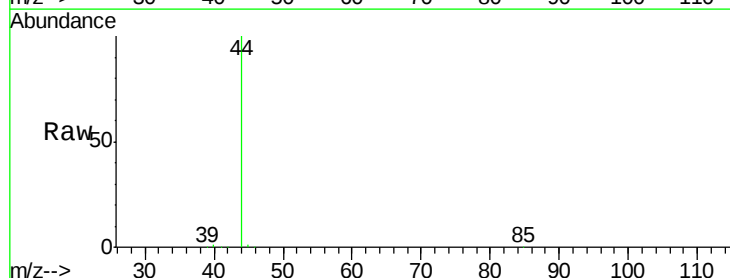
Acq: 22 Jun 2018 15:14

Tgt Ion: 85 Resp: 459

Ion Ratio Lower Upper

85 100

87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.34

500

400

300

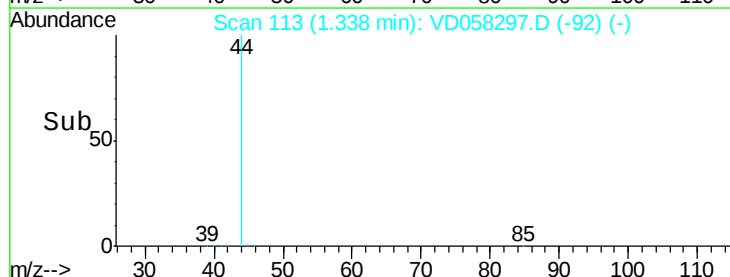
200

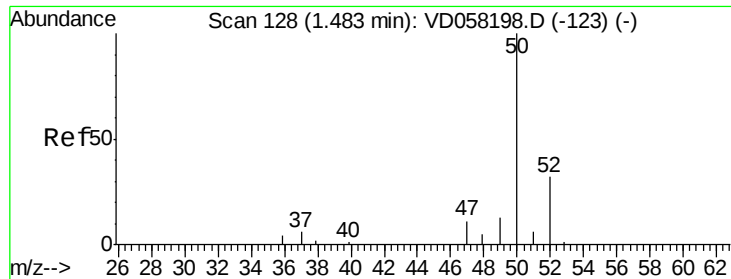
100

0

Time-->

1.30 1.32 1.34 1.36





#3

Chloromethane

Concen: Below Cal

RT: 1.52 min Scan# 131

Delta R.T. 0.03 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

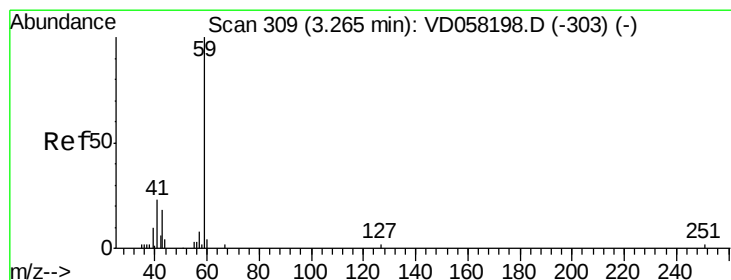
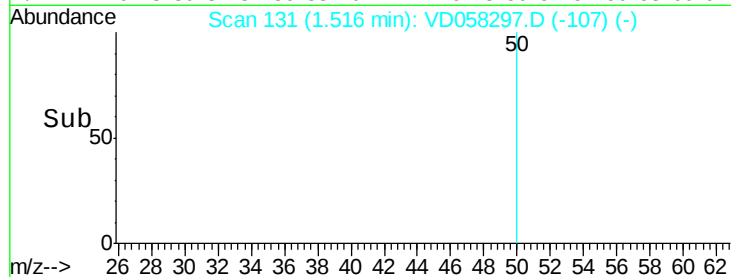
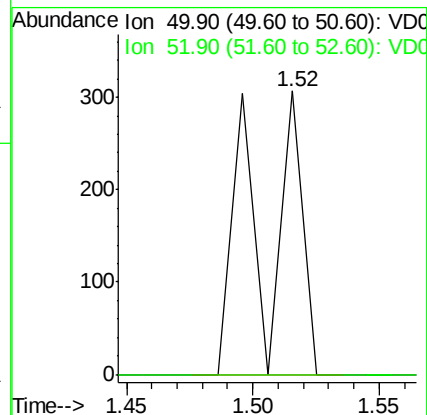
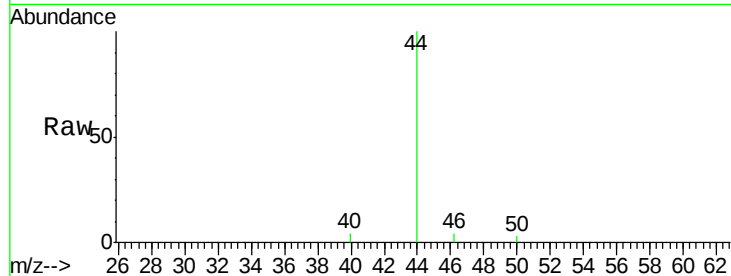
26KV-TP-11RE

Tot Ion: 50 Resp: 361

Ion Ratio Lower Upper

50 100

52 0.0 25.0 37.4#



#11

Tert butyl alcohol

Concen: 3.50 ug/l

RT: 3.26 min Scan# 308

Delta R.T. -0.01 min

Lab File: VD058297.D

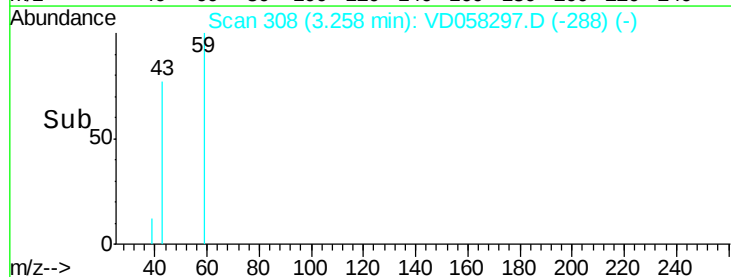
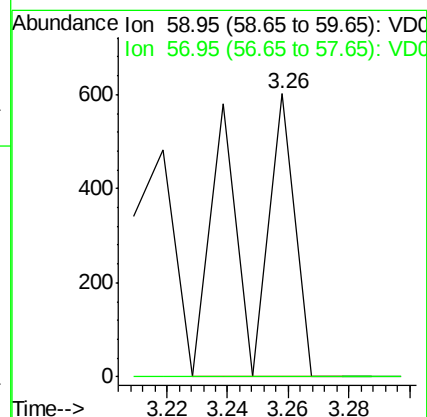
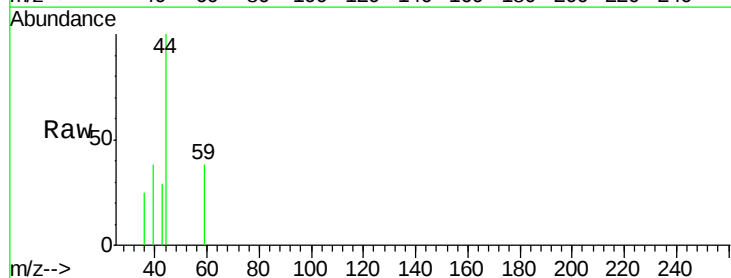
Acq: 22 Jun 2018 15:14

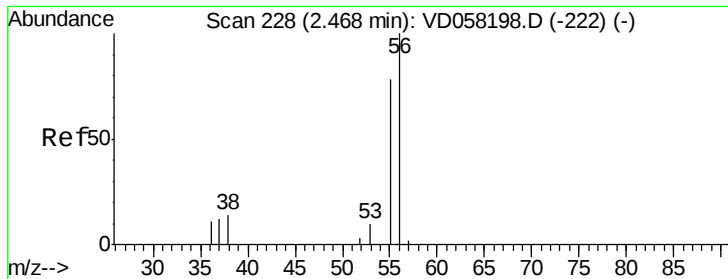
Tgt Ion: 59 Resp: 698

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.4#





#13

Acrolein

Concen: 3.76 ug/l

RT: 2.41 min Scan# 222

Delta R.T. -0.06 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

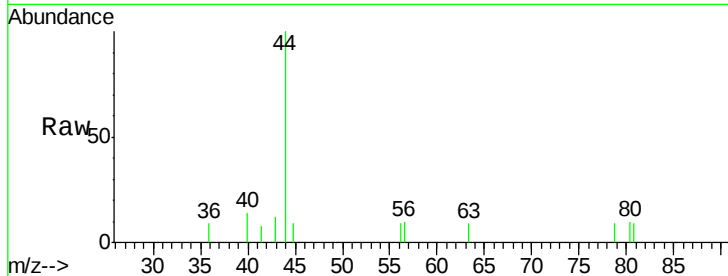
26KV-TP-11RE

Tot Ion: 56 Resp: 429

Ion Ratio Lower Upper

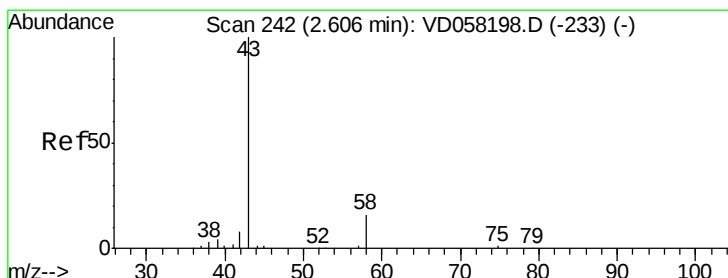
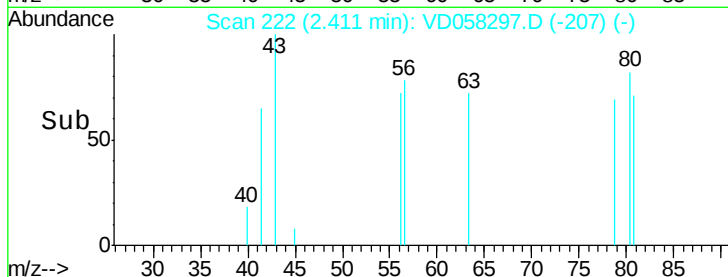
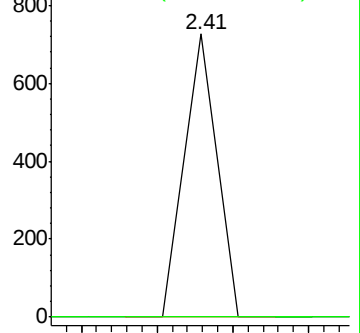
56 100

55 0.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 85.42 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058297.D

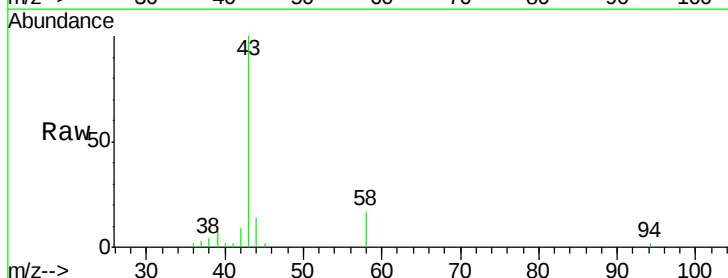
Acq: 22 Jun 2018 15:14

Tgt Ion: 43 Resp: 70702

Ion Ratio Lower Upper

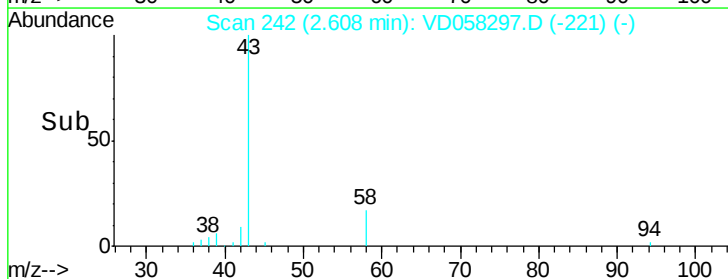
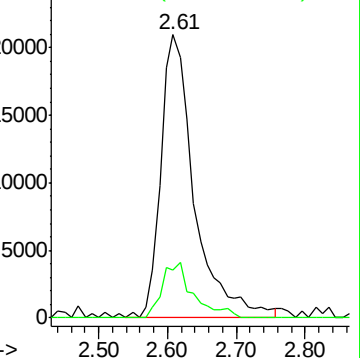
43 100

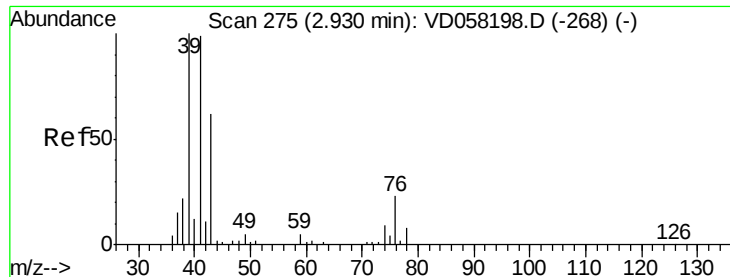
58 16.7 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

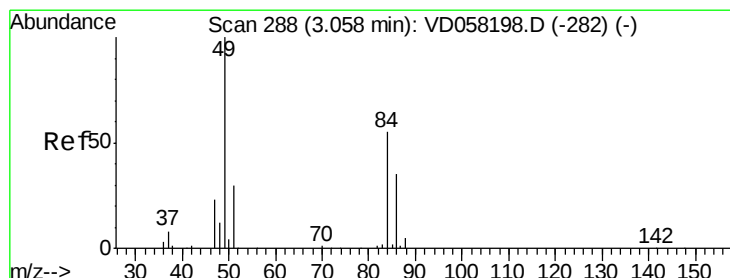
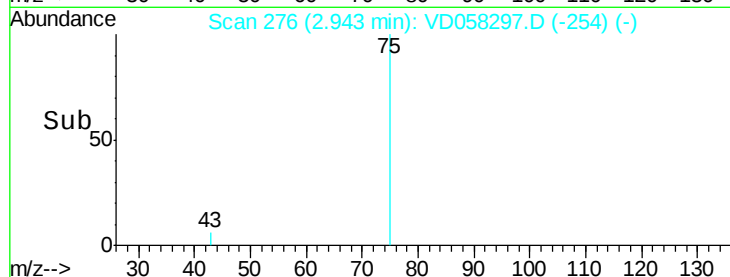
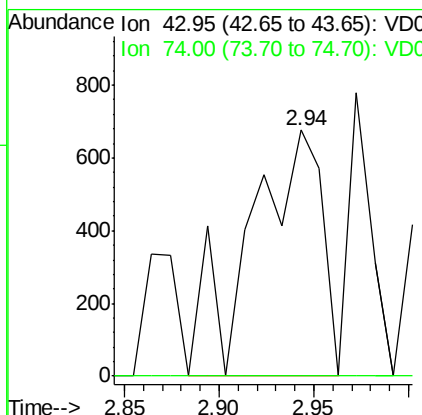
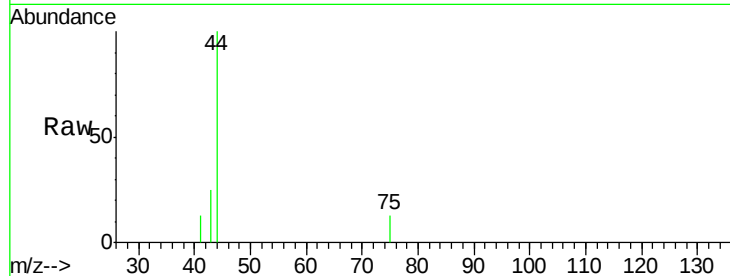




#18
Methyl Acetate
Concen: 1.01 ug/l
RT: 2.94 min Scan# 276
Delta R.T. 0.01 min
Lab File: VD058297.D
Acq: 22 Jun 2018 15:14

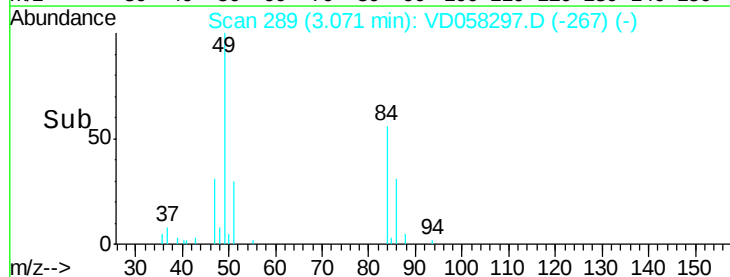
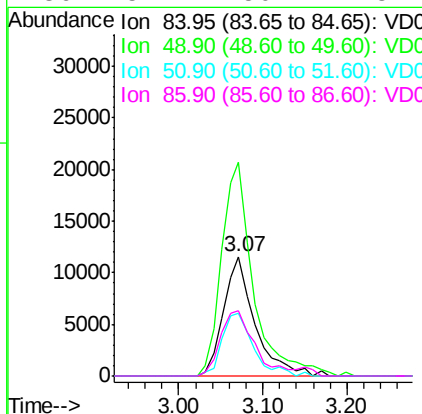
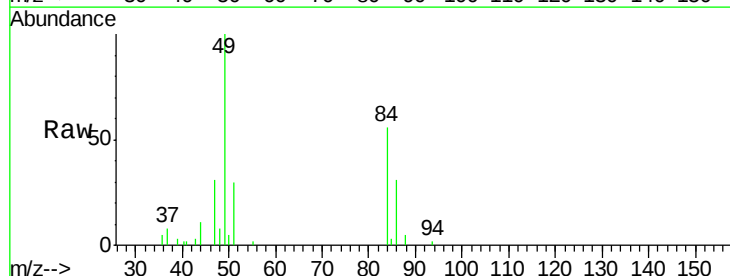
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-11RE

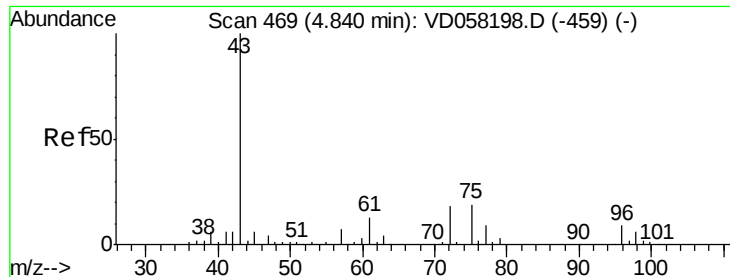
Tot Ion: 43 Resp: 1791
Ion Ratio Lower Upper
43 100
74 0.0 11.7 17.5#



#20
Methylene Chloride
Concen: 10.04 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD058297.D
Acq: 22 Jun 2018 15:14

Tgt Ion: 84 Resp: 29913
Ion Ratio Lower Upper
84 100
49 179.0 145.0 217.6
51 53.0 42.9 64.3
86 54.7 50.1 75.1





#25

2-Butanone

Concen: 3.41 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

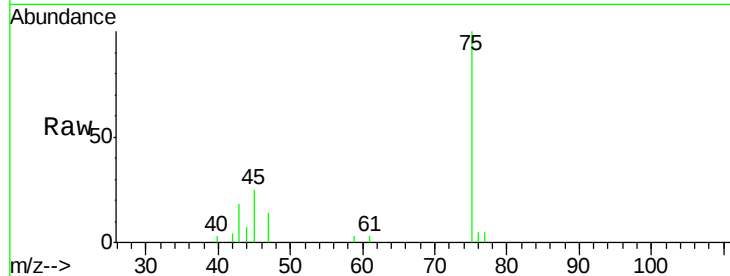
26KV-TP-11RE

Tot Ion: 43 Resp: 6151

Ion Ratio Lower Upper

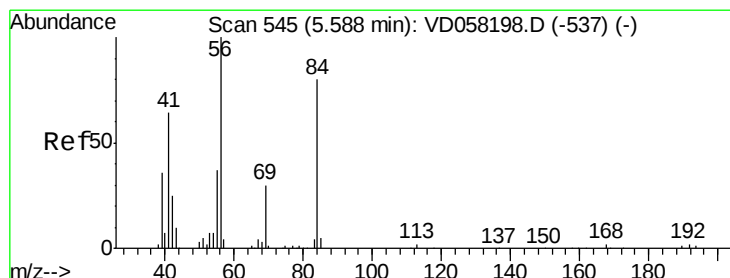
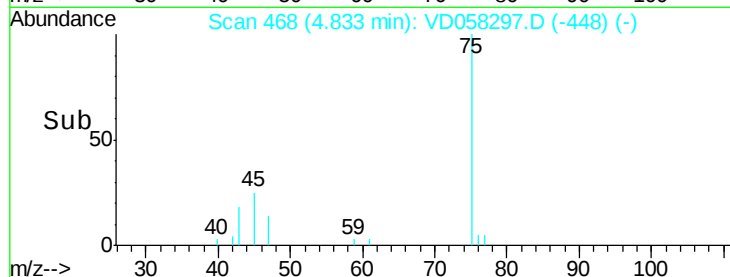
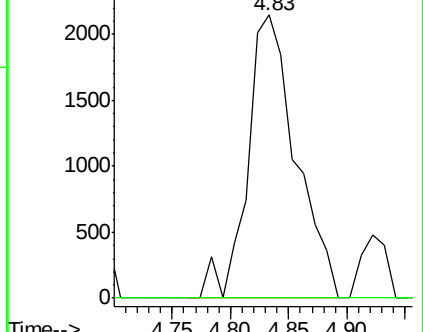
43 100

72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 5.63 min Scan# 549

Delta R.T. 0.04 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

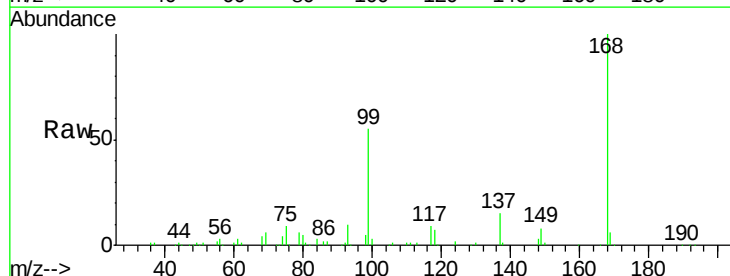
Tgt Ion: 56 Resp: 14407

Ion Ratio Lower Upper

56 100

69 216.2 23.6 35.4#

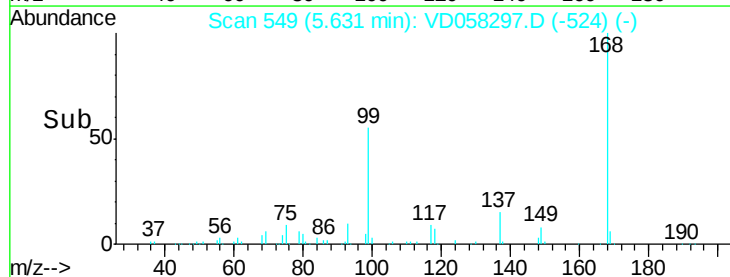
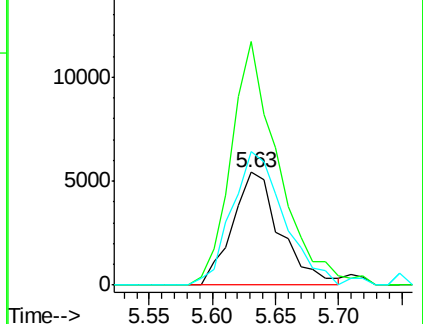
84 118.3 65.2 97.8#

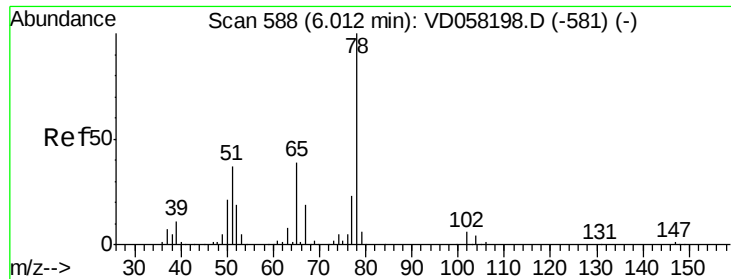


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.01 min Scan# 588

Delta R.T. 0.00 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

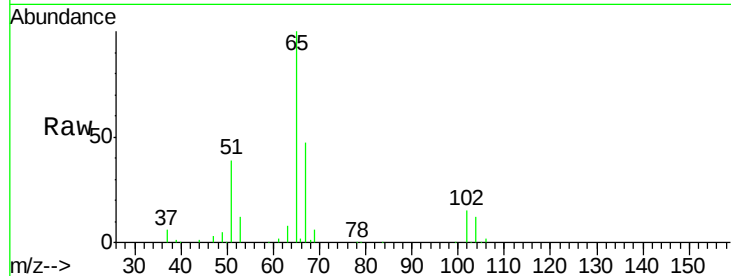
26KV-TP-11RE

Tot Ion: 65 Resp: 326117

Ion Ratio Lower Upper

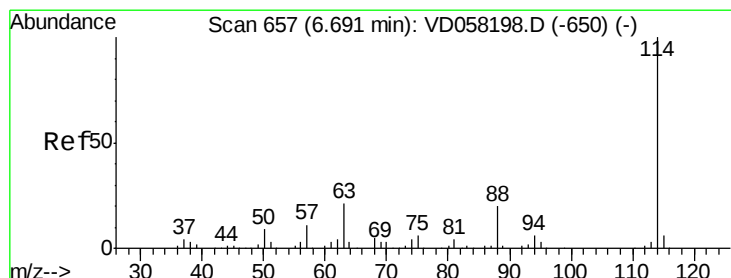
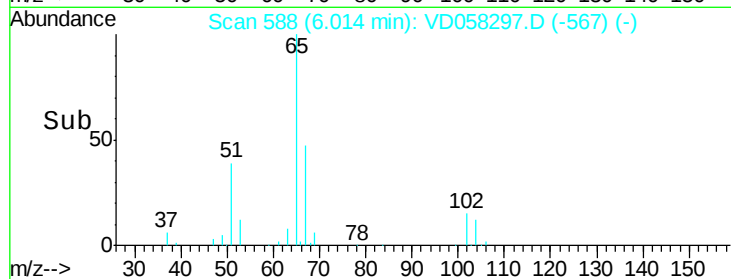
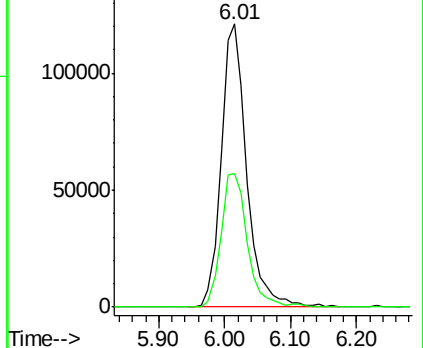
65 100

67 47.1 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.68 min Scan# 656

Delta R.T. -0.01 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

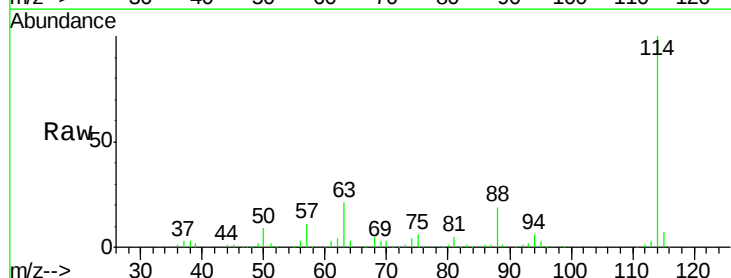
Tgt Ion: 114 Resp: 775393

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.6

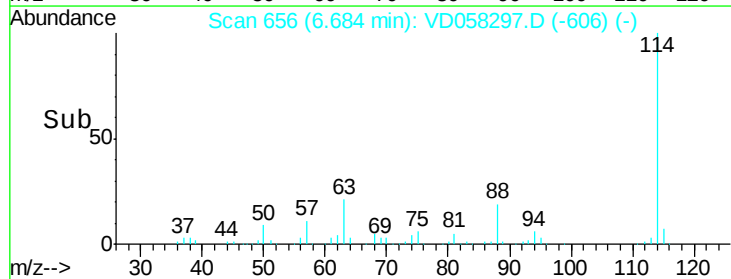
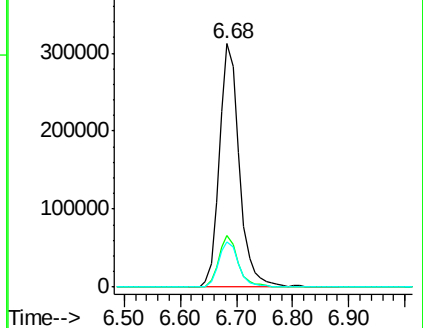
88 18.6 0.0 40.6

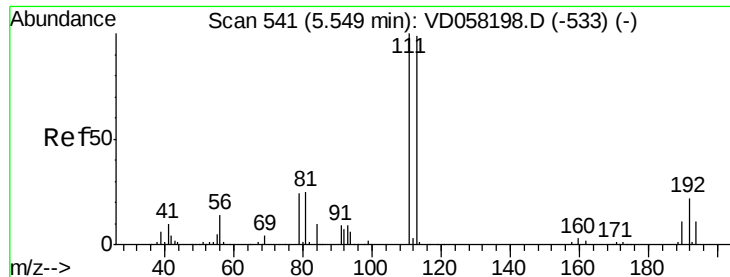


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.01 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-11RE

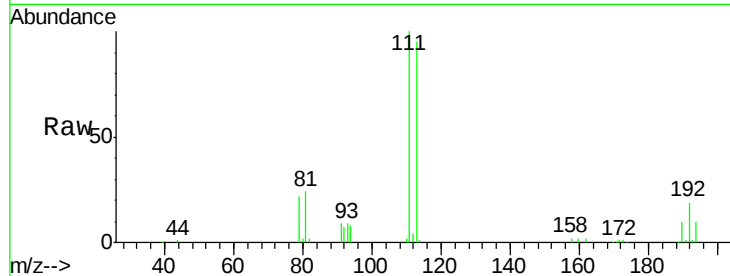
Tot Ion:113 Resp: 335327

Ion Ratio Lower Upper

113 100

111 105.7 80.6 121.0

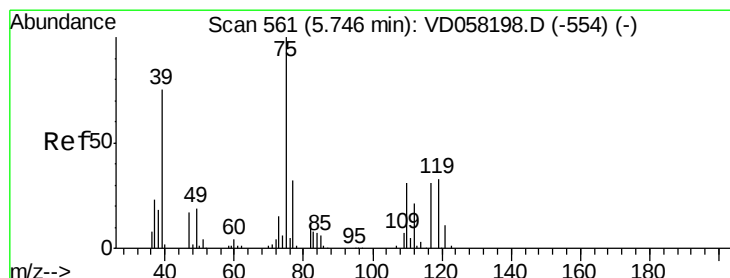
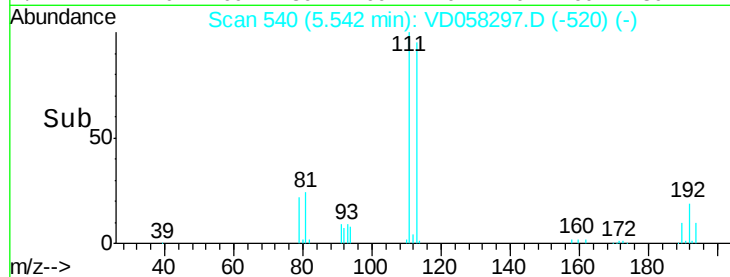
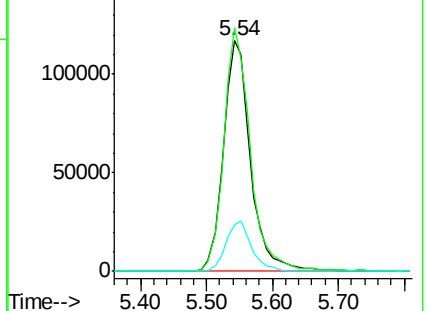
192 20.2 17.8 26.6



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: 6.84 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.12 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

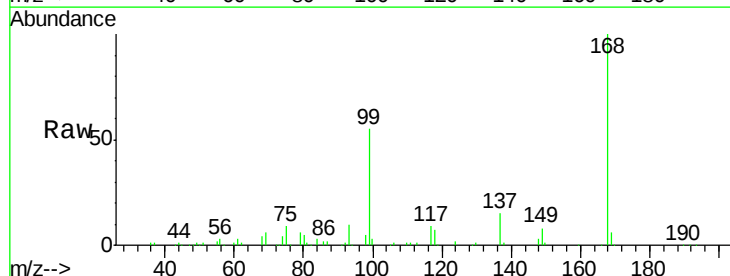
Tgt Ion: 75 Resp: 52476

Ion Ratio Lower Upper

75 100

110 6.0 15.4 46.4#

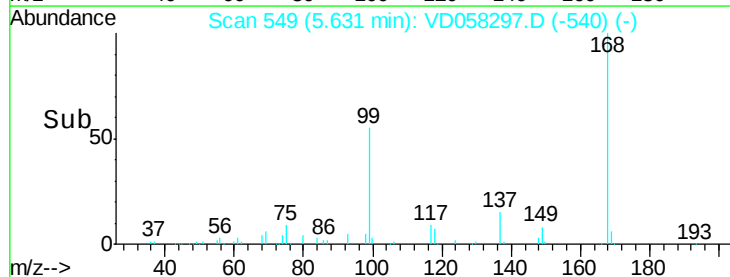
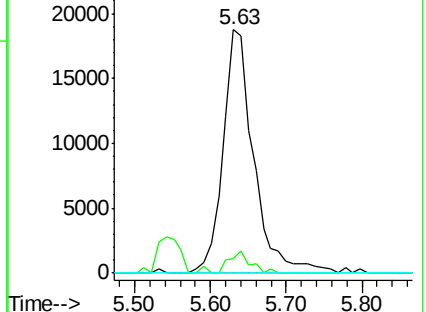
77 0.0 25.4 38.2#

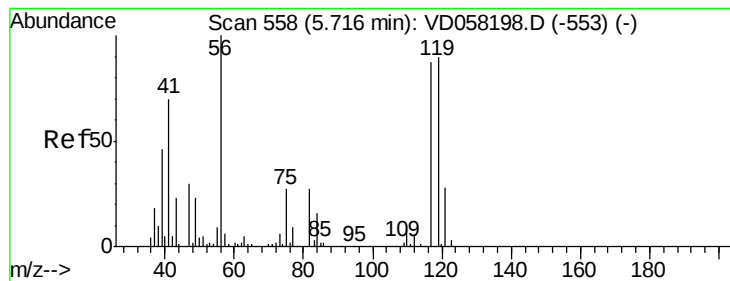


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 6.24 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.09 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-11RE

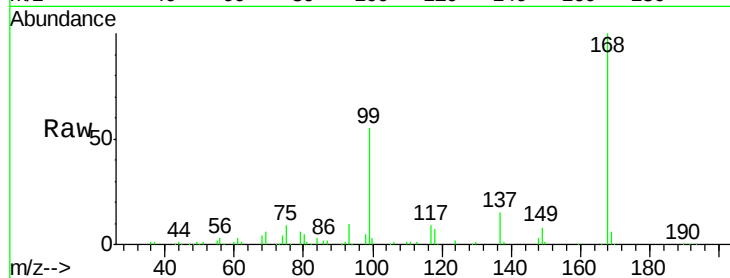
Tot Ion:117 Resp: 47531

Ion Ratio Lower Upper

117 100

119 3.6 78.8 118.2#

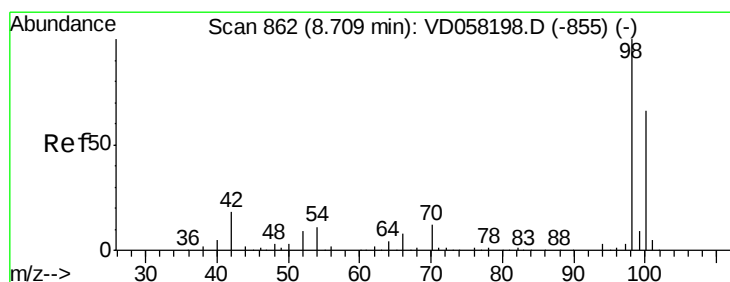
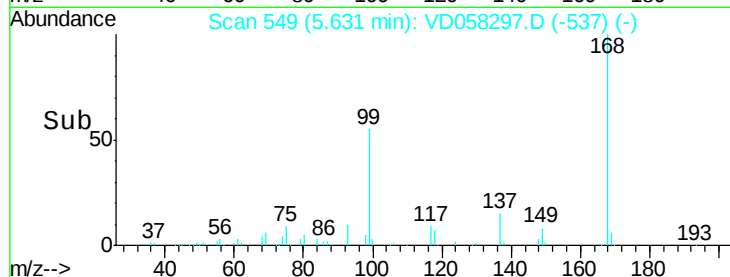
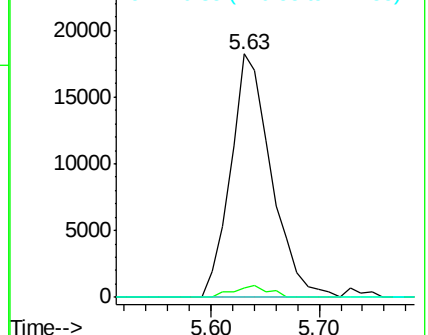
121 0.0 25.0 37.6#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058297.D

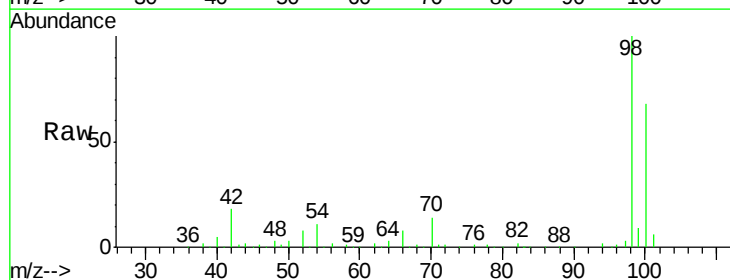
Acq: 22 Jun 2018 15:14

Tgt Ion: 98 Resp: 724867

Ion Ratio Lower Upper

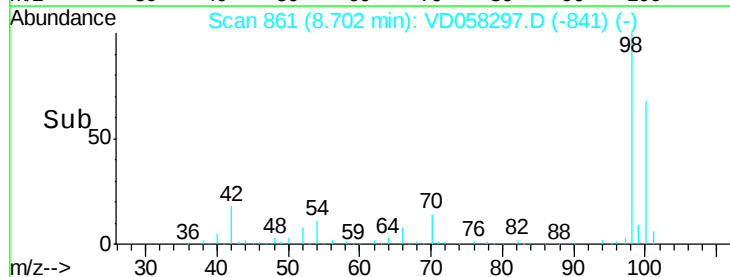
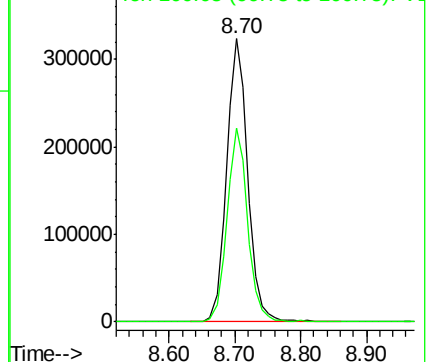
98 100

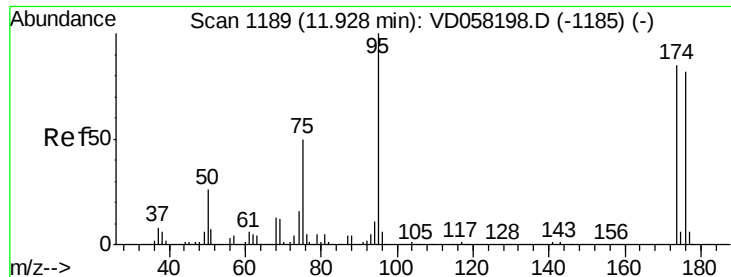
100 68.5 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-11RE

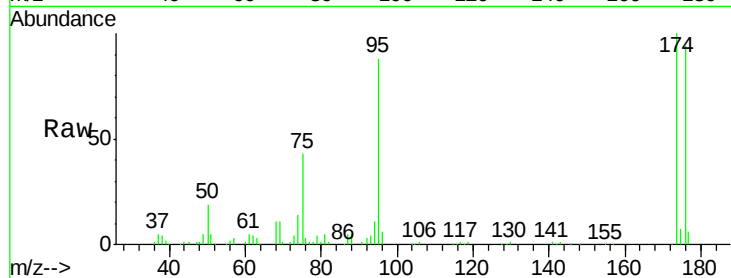
Tot Ion: 95 Resp: 253190

Ion Ratio Lower Upper

95 100

174 114.3 0.0 170.2

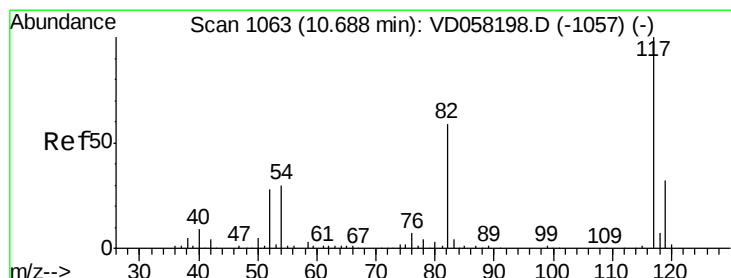
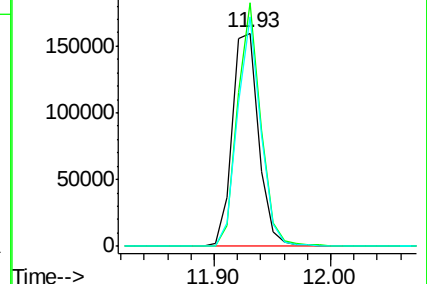
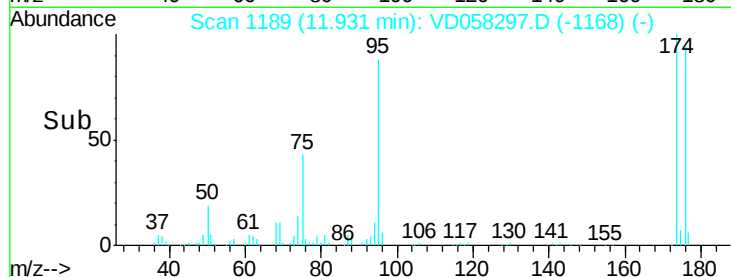
176 107.7 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.68 min Scan# 1062

Delta R.T. -0.01 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

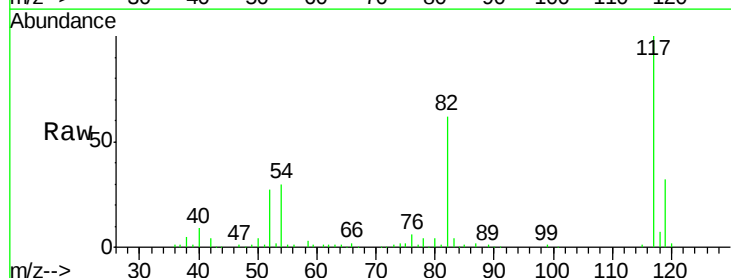
Tgt Ion: 117 Resp: 567425

Ion Ratio Lower Upper

117 100

82 61.7 47.0 70.6

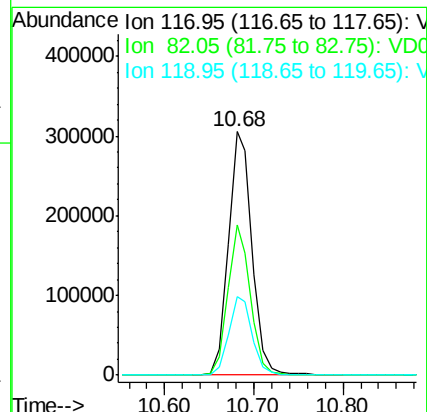
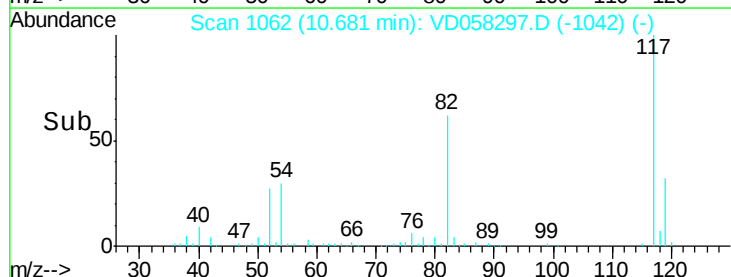
119 32.0 25.3 37.9

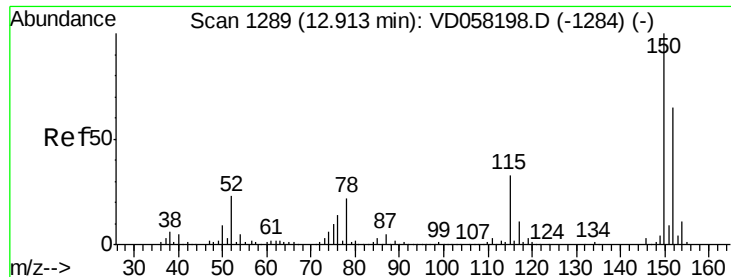


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.91 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-11RE

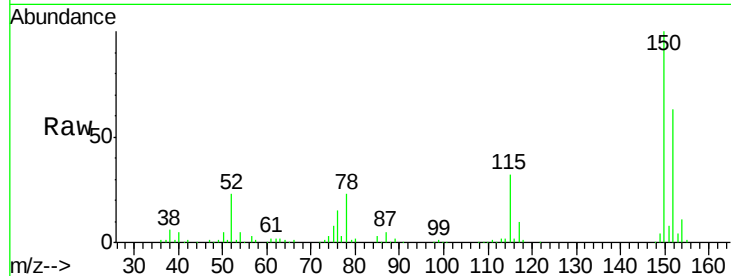
Tot Ion:152 Resp: 219964

Ion Ratio Lower Upper

152 100

115 50.8 25.1 75.3

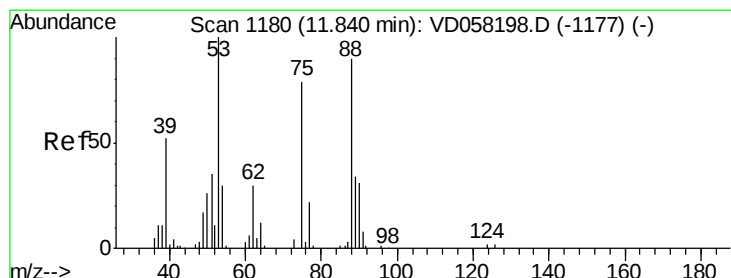
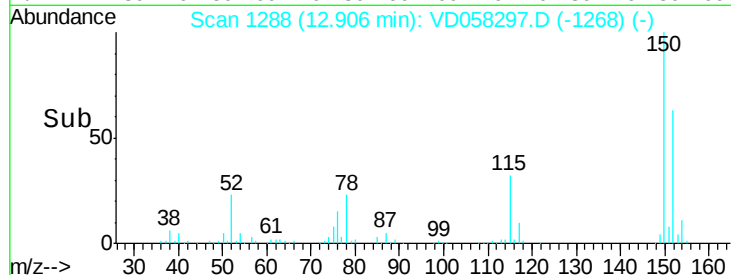
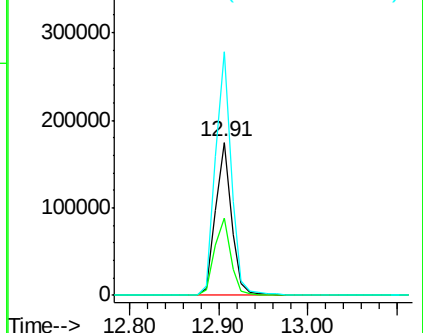
150 159.1 0.0 308.8



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: 160.20 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD058297.D

Acq: 22 Jun 2018 15:14

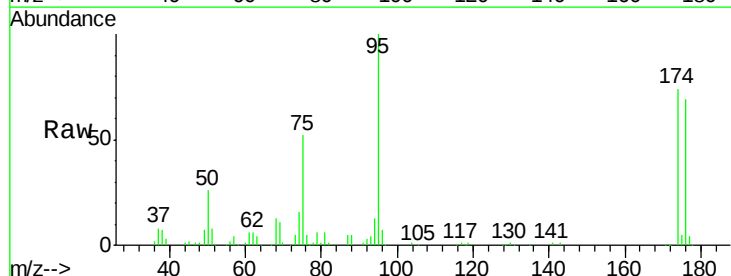
Tgt Ion: 75 Resp: 125482

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

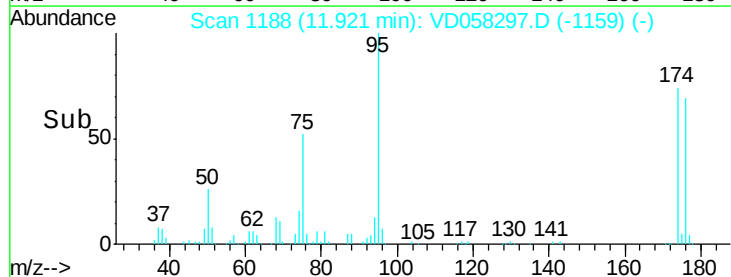
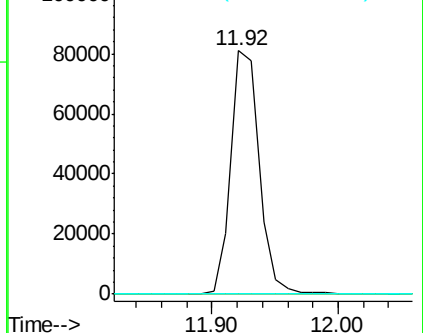
89 0.0 34.6 52.0#

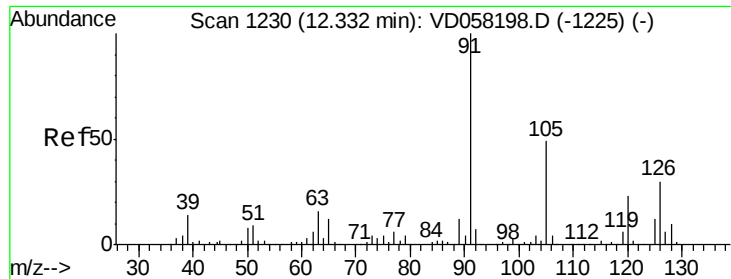


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.31 min Scan# 1228
 Delta R.T. -0.02 min
 Lab File: VD058297.D
 Acq: 22 Jun 2018 15:14

Instrument :
 MSVOA_D
 ClientSampleId :
 26KV-TP-11RE

Tot Ion: 91 Resp: 991
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.9#

