

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062018\
 Data File : VD058238.D
 Acq On : 21 Jun 2018 6:28
 Operator : VA/AP
 Sample : J3603-07
 Misc : 5.86g/5ml/MSVOA D/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 26KV-TP-4

Quant Time: Jun 21 08:35:00 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	5.66	168	16784	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.70	114	28538	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	31481	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	15290	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	30740	181.33	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	362.66%	
35) Dibromofluoromethane	5.56	113	18700	80.51	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	161.02%	
50) Toluene-d8	8.72	98	28095	50.00	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	100.00%	
62) 4-Bromofluorobenzene	11.94	95	13737	59.84	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	119.68%	

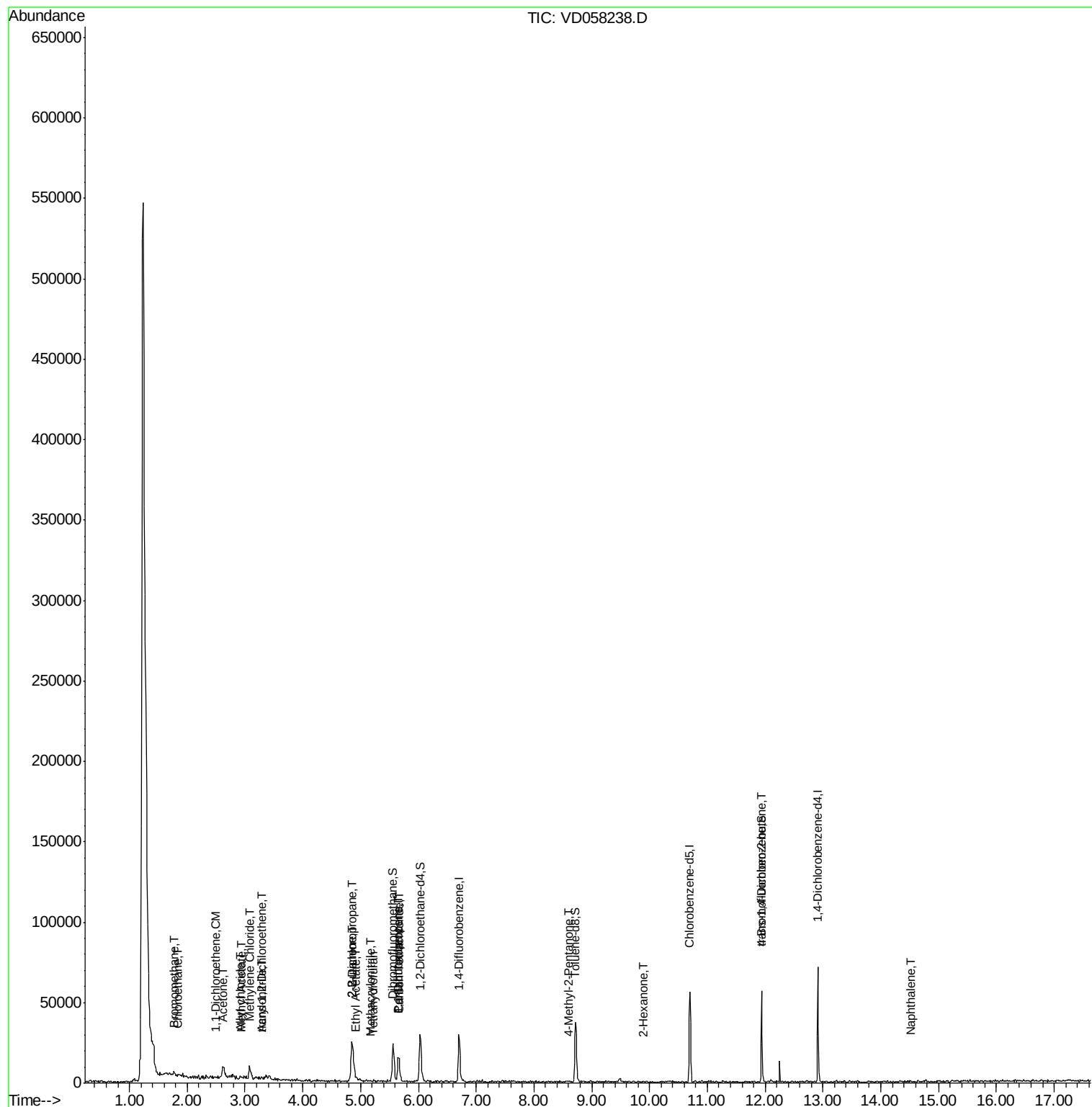
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.79	94	189	5.228	ug/l #	3
6) Chloroethane	1.85	64	260	8.194	ug/l #	41
12) 1,1-Dichloroethene	2.49	96	387	6.711	ug/l #	1
14) Allyl chloride	2.92	41	452	3.368	ug/l #	68
15) Acrylonitrile	3.28	53	194	13.085	ug/l #	14
16) Acetone	2.62	43	14973	645.815	ug/l	100
18) Methyl Acetate	2.94	43	656	13.267	ug/l #	65
20) Methylene Chloride	3.09	84	3422	57.227	ug/l #	72
21) trans-1,2-Dichloroethene	3.29	96	247	3.919	ug/l #	1
25) 2-Butanone	4.84	43	3033	60.022	ug/l #	60
26) 2,2-Dichloropropane	4.85	77	1559	6.484	ug/l #	55
29) Tetrahydrofuran	5.22	42	213	7.919	ug/l #	37
36) 1,1-Dichloropropene	5.65	75	1631	5.777	ug/l #	43
37) Ethyl Acetate	4.92	43	215	1.337	ug/l #	72
38) Carbon Tetrachloride	5.67	117	1221	4.353	ug/l #	11
41) Methacrylonitrile	5.18	41	204	2.626	ug/l #	30
51) 4-Methyl-2-Pentanone	8.60	43	430	3.074	ug/l #	41
59) 2-Hexanone	9.89	43	188	1.860	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.94	75	7400	135.914	ug/l #	1
82) 4-Chlorotoluene	12.33	91	181	Below Cal	#	45
95) Naphthalene	14.52	128	928	1.818	ug/l #	70

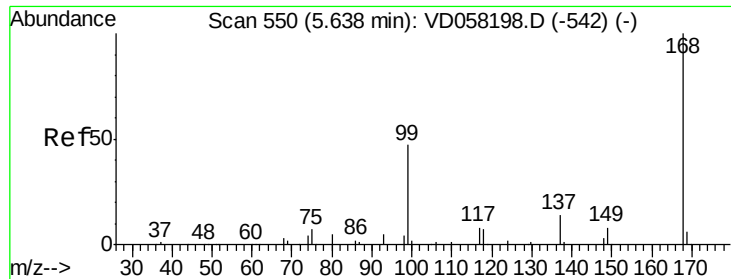
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058238.D

Acq: 21 Jun 2018 6:28

Instrument :

MSVOA_D

ClientSampleId :

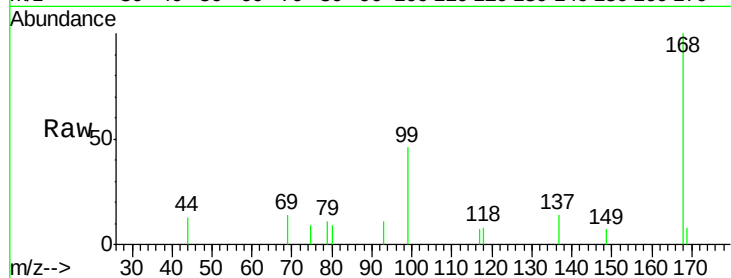
26KV-TP-4

Tot Ion:168 Resp: 16784

Ion Ratio Lower Upper

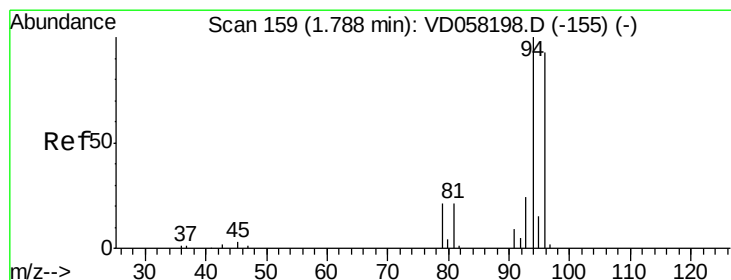
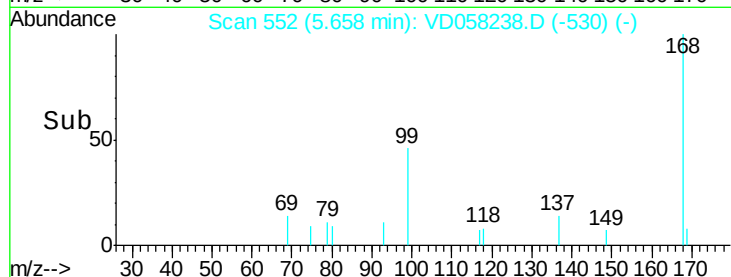
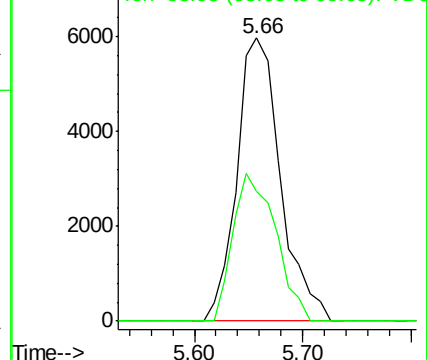
168 100

99 45.7 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 5.228 ug/l

RT: 1.79 min Scan# 159

Delta R.T. 0.00 min

Lab File: VD058238.D

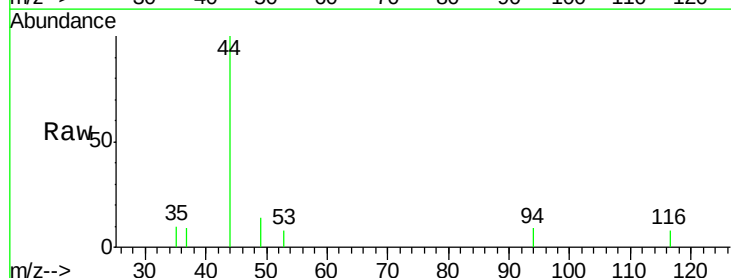
Acq: 21 Jun 2018 6:28

Tgt Ion: 94 Resp: 189

Ion Ratio Lower Upper

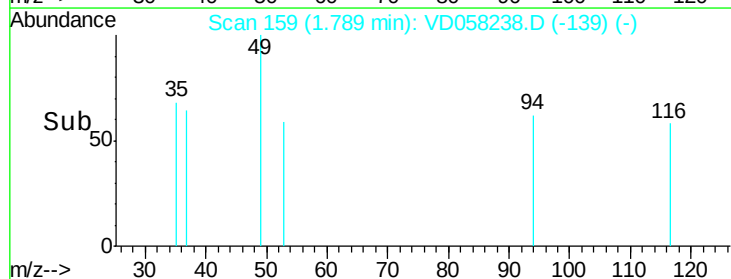
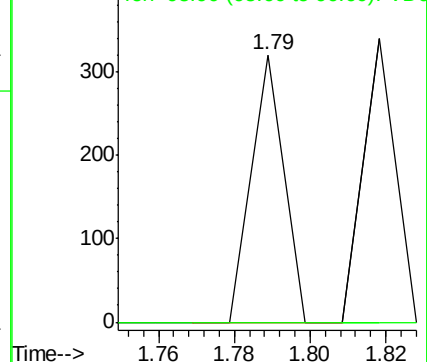
94 100

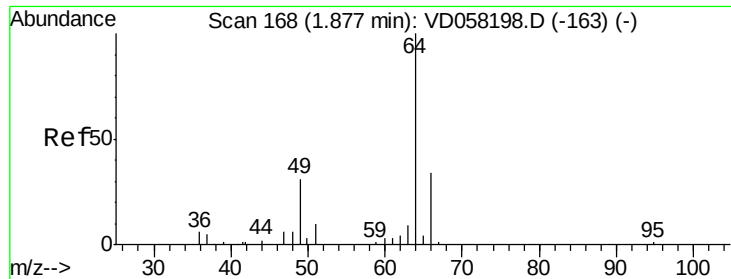
96 0.0 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#6

Chloroethane

Concen: 8.194 ug/l

RT: 1.85 min Scan# 165

Delta R.T. -0.03 min

Lab File: VD058238.D

Acq: 21 Jun 2018 6:28

Instrument :

MSVOA_D

ClientSampleId :

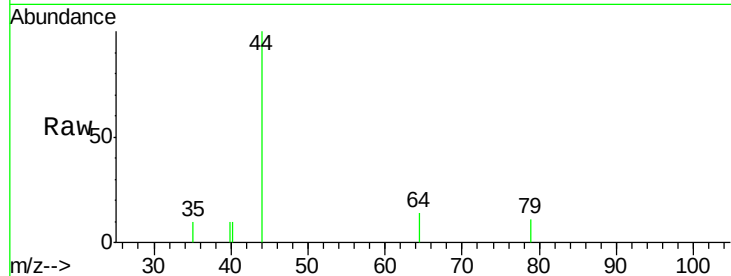
26KV-TP-4

Tot Ion: 64 Resp: 260

Ion Ratio Lower Upper

64 100

66 0.0 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.85

400

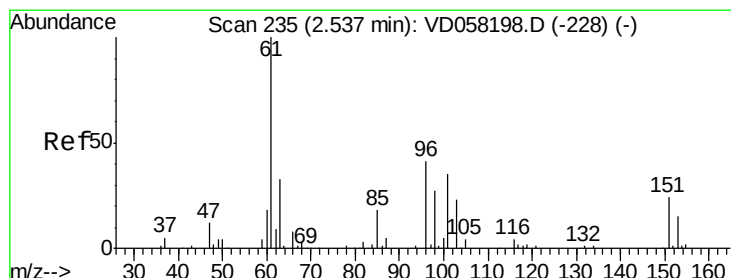
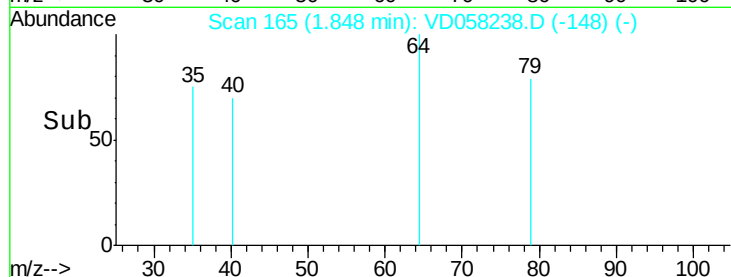
300

200

100

0

Time-->



#12

1,1-Dichloroethene

Concen: 6.711 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.05 min

Lab File: VD058238.D

Acq: 21 Jun 2018 6:28

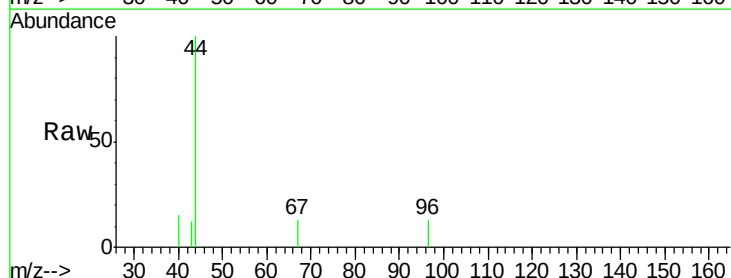
Tgt Ion: 96 Resp: 387

Ion Ratio Lower Upper

96 100

61 0.0 193.9 290.9#

98 0.0 51.7 77.5#



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

400

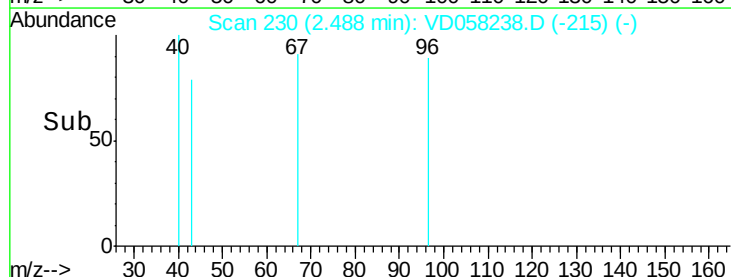
300

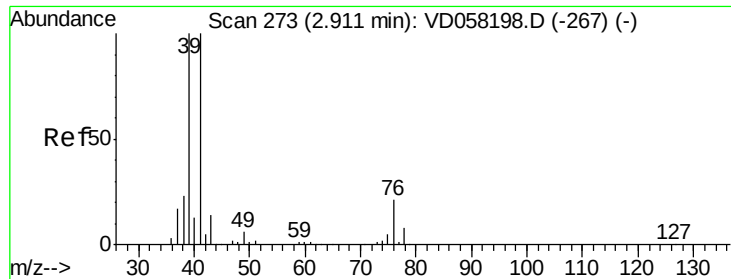
200

100

0

Time-->

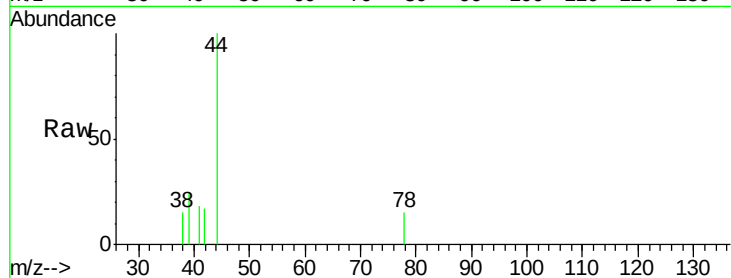




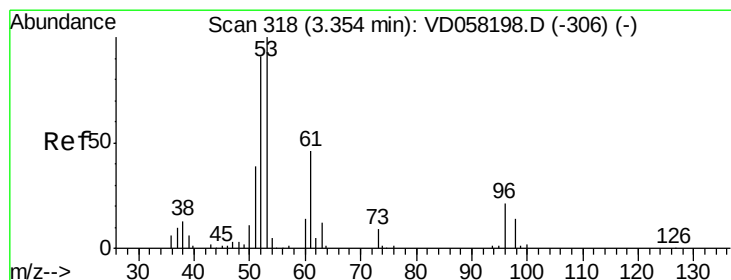
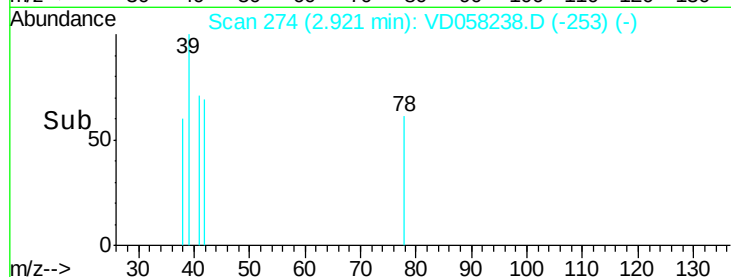
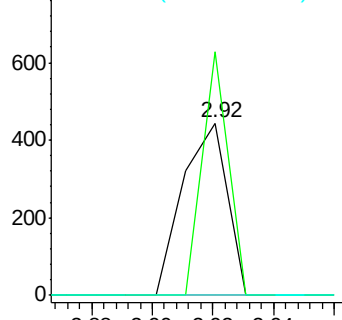
#14
Allvl chloride
Concen: 3.368 ug/l
RT: 2.92 min Scan# 274
Delta R.T. 0.01 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-4

Tot Ion: 41 Resp: 452
Ion Ratio Lower Upper
41 100
39 71.8 80.1 120.1#
76 0.0 19.4 29.2#

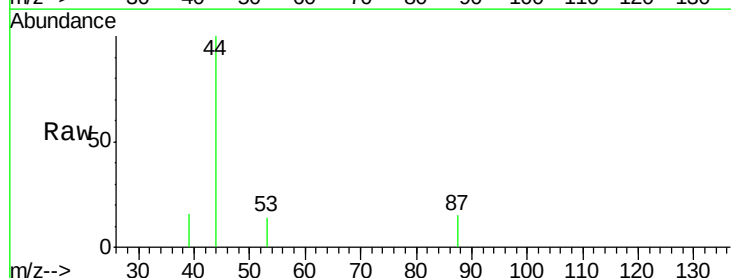


Abundance Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 75.95 (75.65 to 76.65): VDC

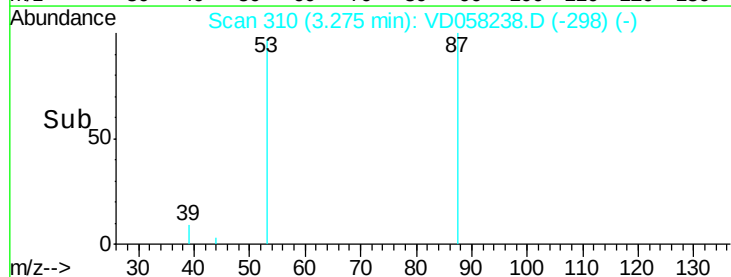
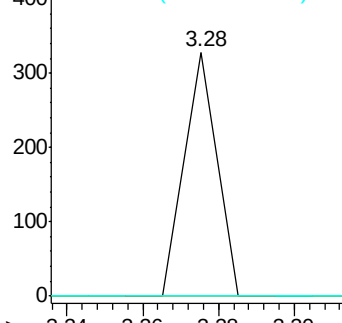


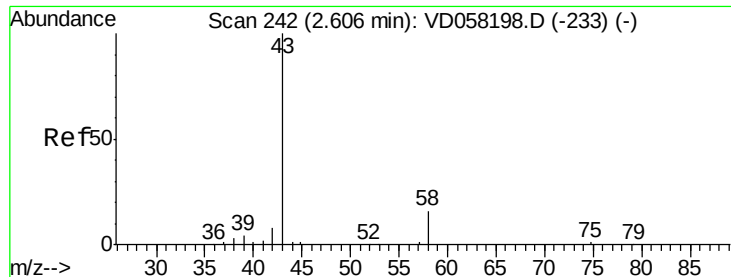
#15
Acrylonitrile
Concen: 13.085 ug/l
RT: 3.28 min Scan# 310
Delta R.T. -0.08 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

Tgt Ion: 53 Resp: 194
Ion Ratio Lower Upper
53 100
52 0.0 72.6 108.8#
51 0.0 32.2 48.4#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 645.815 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD058238.D

Acq: 21 Jun 2018 6:28

Instrument :

MSVOA_D

ClientSampleId :

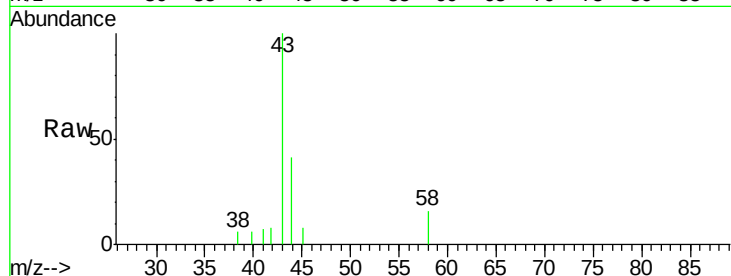
26KV-TP-4

Tot Ion: 43 Resp: 14973

Ion Ratio Lower Upper

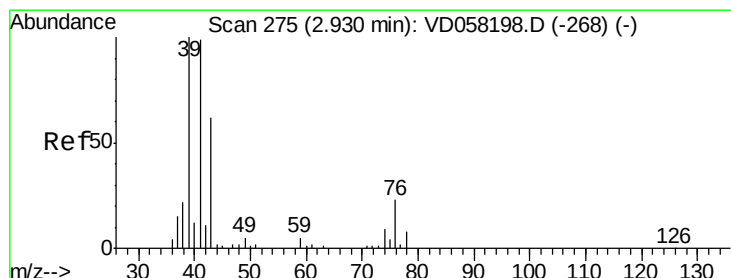
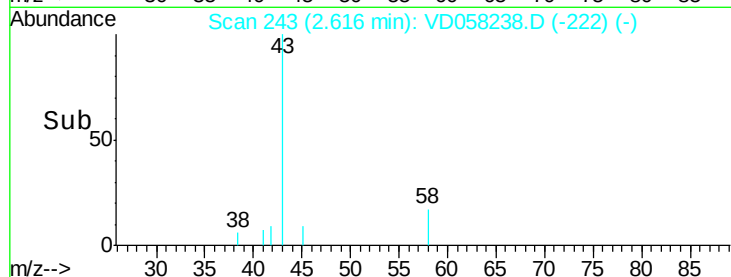
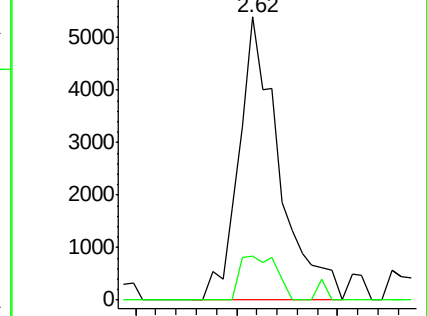
43 100

58 15.8 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: 13.267 ug/l

RT: 2.94 min Scan# 276

Delta R.T. 0.01 min

Lab File: VD058238.D

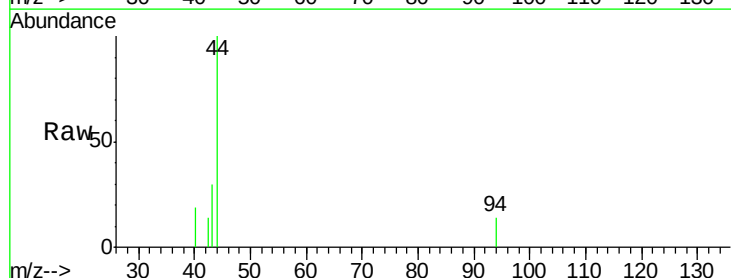
Acq: 21 Jun 2018 6:28

Tgt Ion: 43 Resp: 656

Ion Ratio Lower Upper

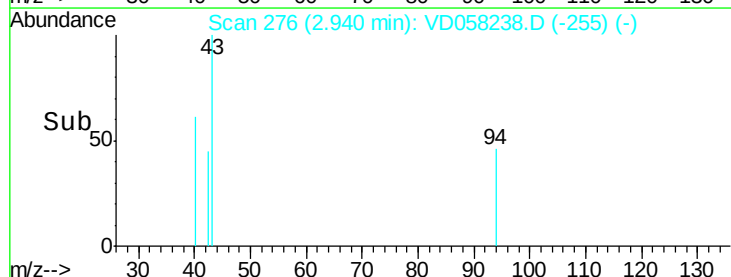
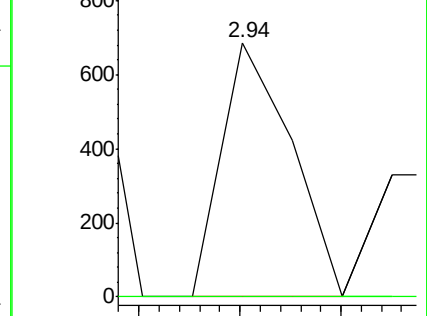
43 100

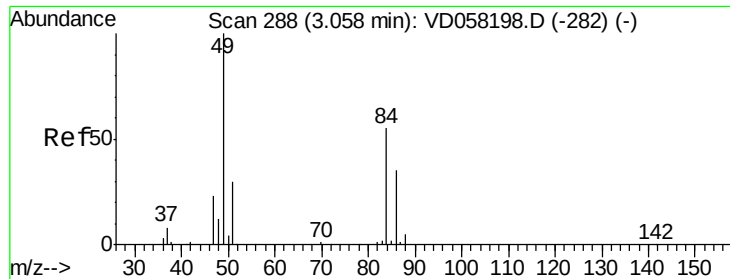
74 0.0 11.7 17.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

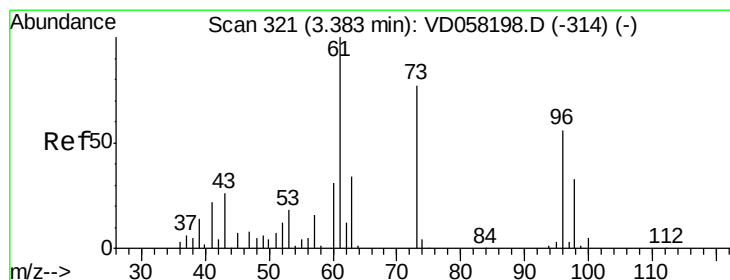
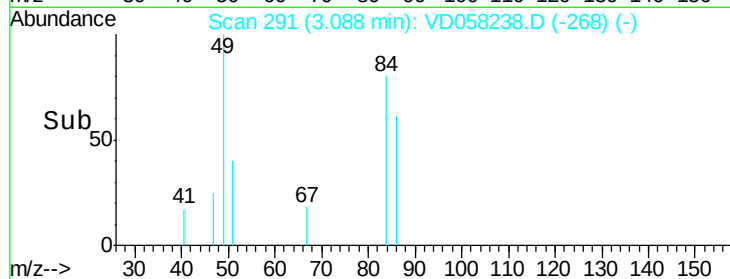
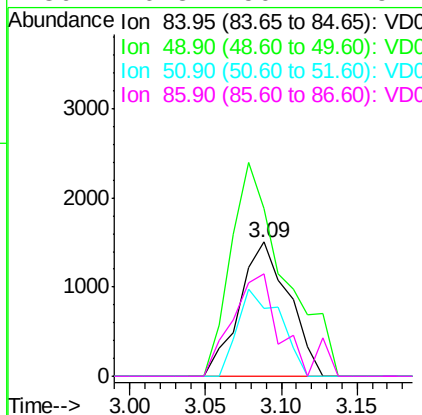
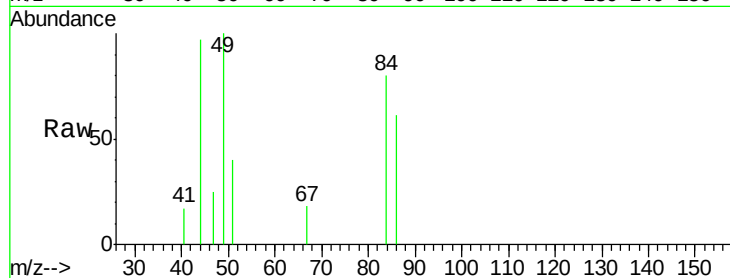




#20
Methylene Chloride
Concen: 57.227 ug/l
RT: 3.09 min Scan# 291
Delta R.T. 0.03 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

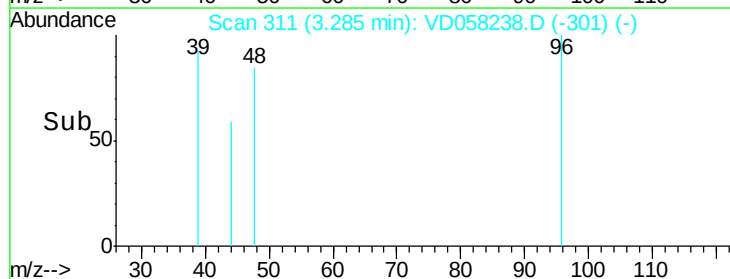
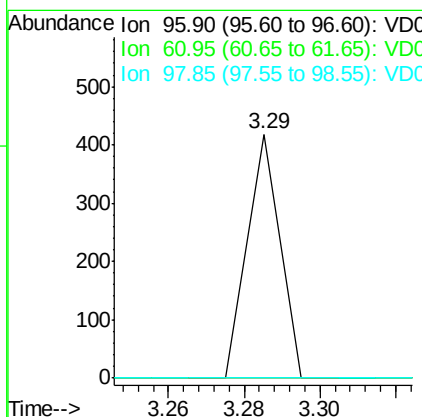
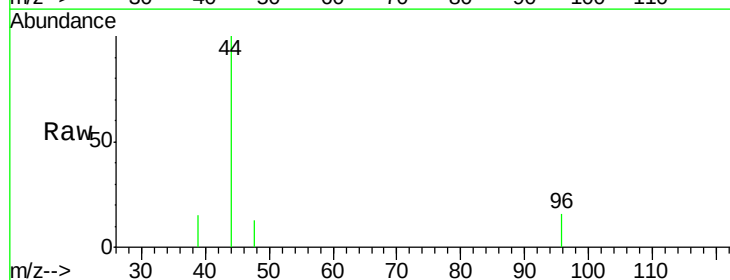
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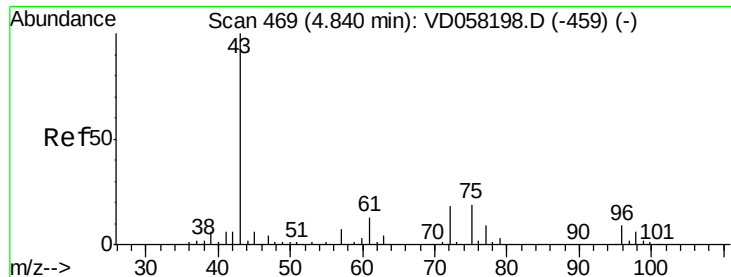
Tot Ion: 84 Resp: 3422
Ion Ratio Lower Upper
84 100
49 125.6 145.0 217.6#
51 50.3 42.9 64.3
86 76.3 50.1 75.1#



#21
trans-1,2-Dichloroethene
Concen: 3.919 ug/l
RT: 3.29 min Scan# 311
Delta R.T. -0.10 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

Tgt Ion: 96 Resp: 247
Ion Ratio Lower Upper
96 100
61 0.0 143.8 215.6#
98 0.0 48.0 72.0#





#25

2-Butanone

Concen: 60.022 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.00 min

Lab File: VD058238.D

Acq: 21 Jun 2018 6:28

Instrument :

MSVOA_D

ClientSampleId :

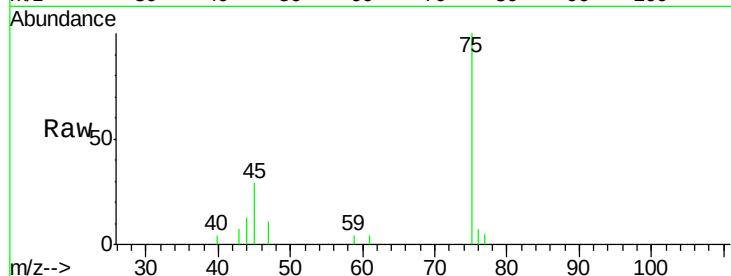
26KV-TP-4

Tot Ion: 43 Resp: 3033

Ion Ratio Lower Upper

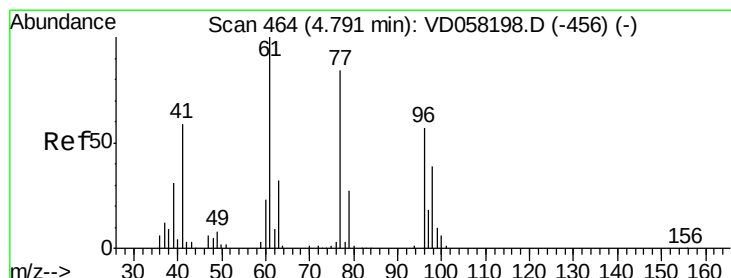
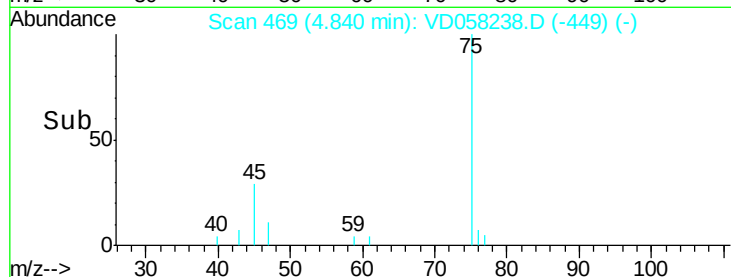
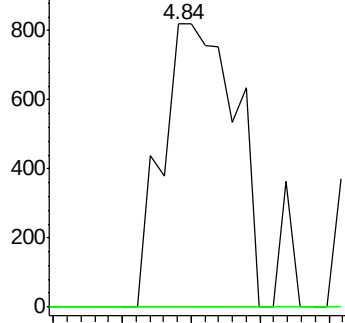
43 100

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



#26

2,2-Dichloropropane

Concen: 6.484 ug/l

RT: 4.85 min Scan# 470

Delta R.T. 0.06 min

Lab File: VD058238.D

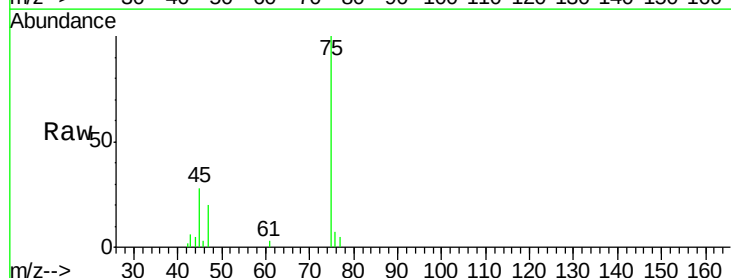
Acq: 21 Jun 2018 6:28

Tgt Ion: 77 Resp: 1559

Ion Ratio Lower Upper

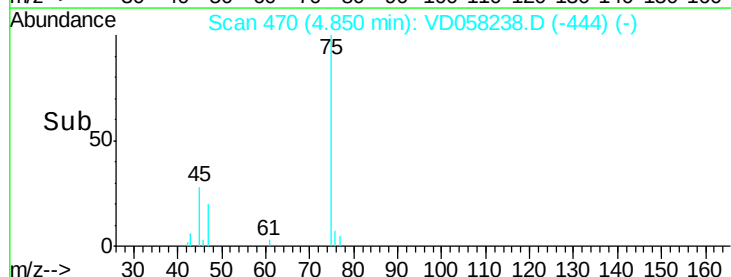
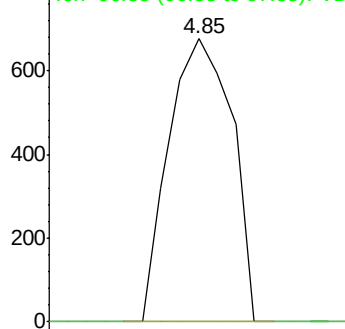
77 100

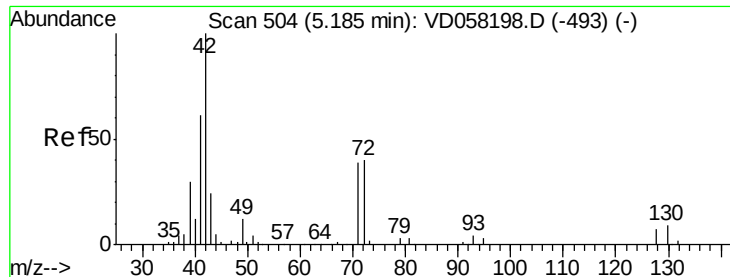
97 0.0 10.5 31.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

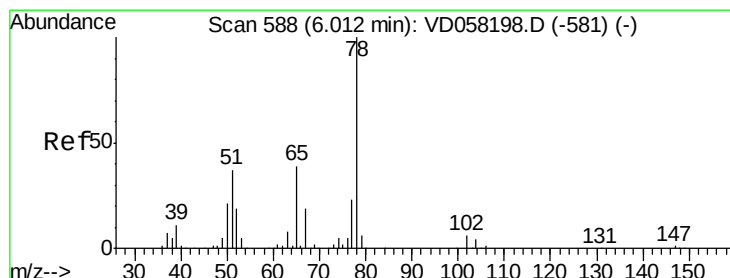
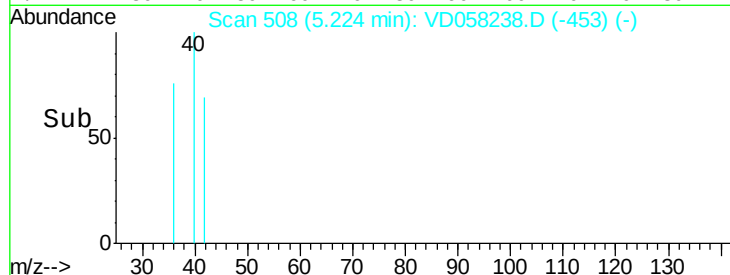
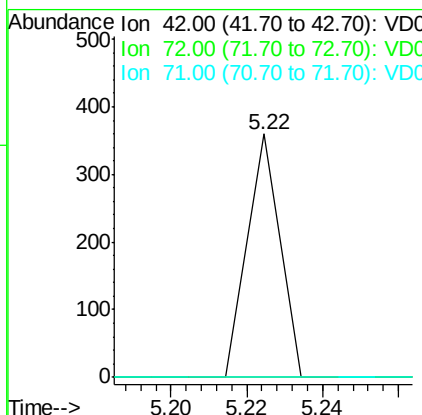
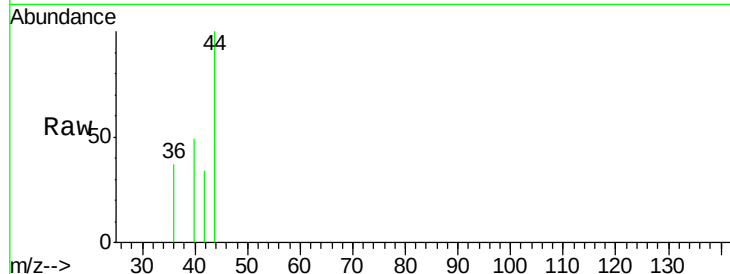




#29
Tetrahydrofuran
Concen: 7.919 ug/l
RT: 5.22 min Scan# 508
Delta R.T. 0.04 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

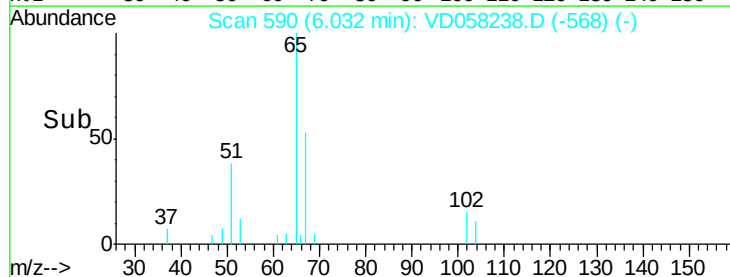
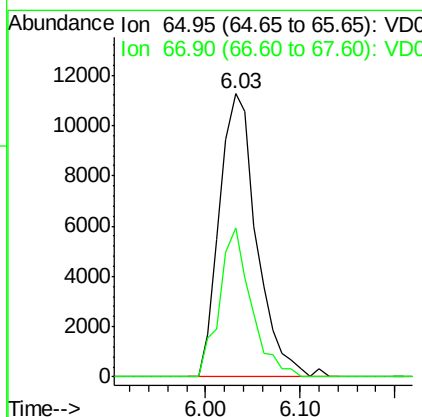
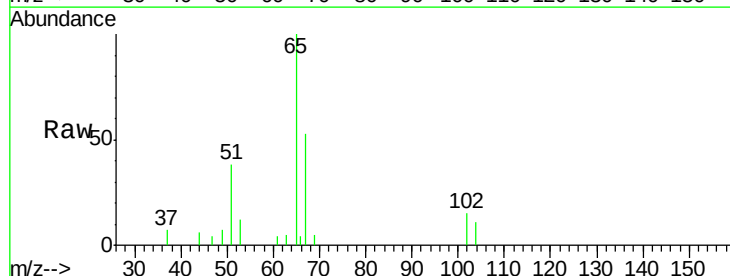
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-4

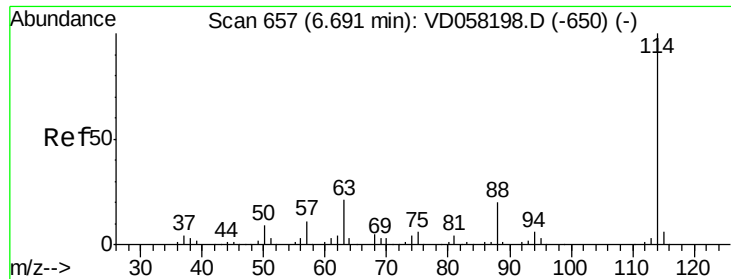
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.2	45.2#
71	0.0	30.1	45.1#



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.03 min Scan# 590
Delta R.T. 0.02 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	97.8

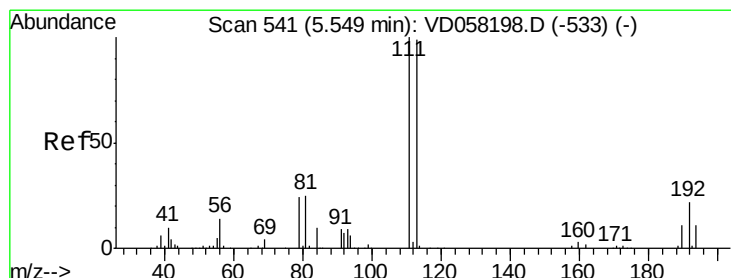
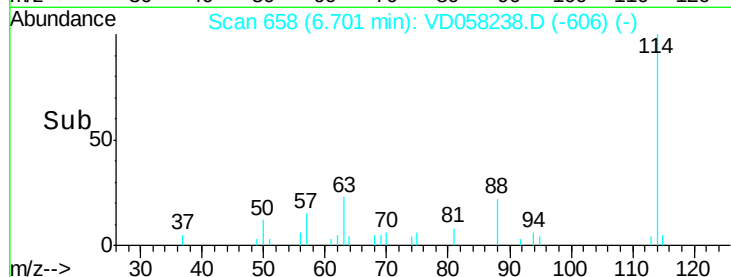
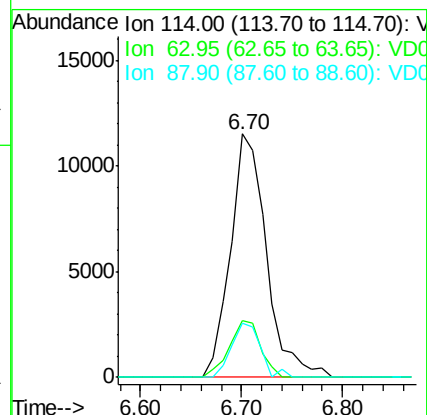
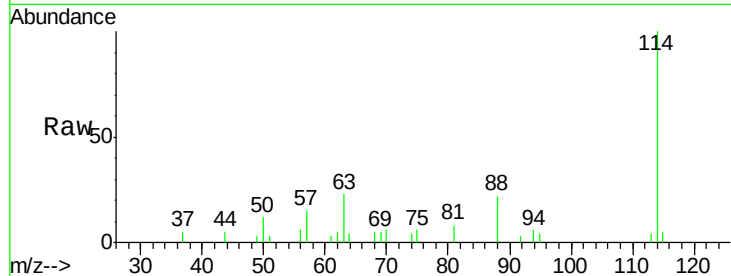




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058238.D
 Acq: 21 Jun 2018 6:28

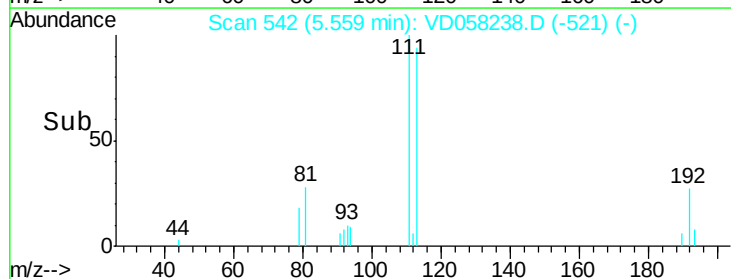
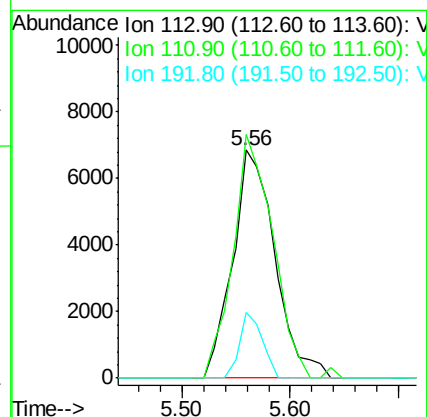
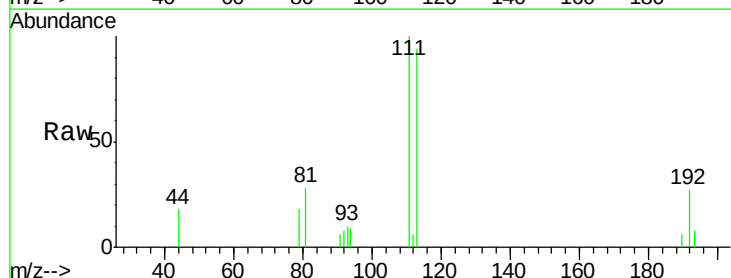
Instrument :
 MSVOA_D
 ClientSampleId :
 26KV-TP-4

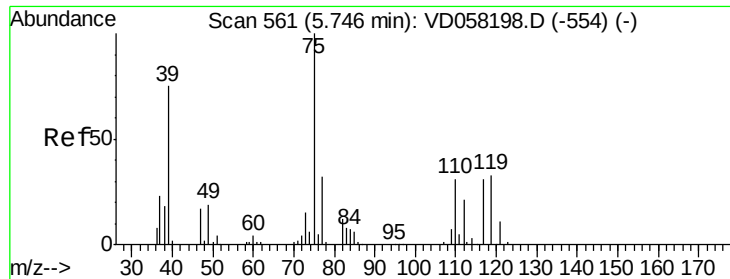
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	42.6
88	22.3	0.0	40.6



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.56 min Scan# 542
 Delta R.T. 0.01 min
 Lab File: VD058238.D
 Acq: 21 Jun 2018 6:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	106.8	80.6	121.0
192	28.7	17.8	26.6

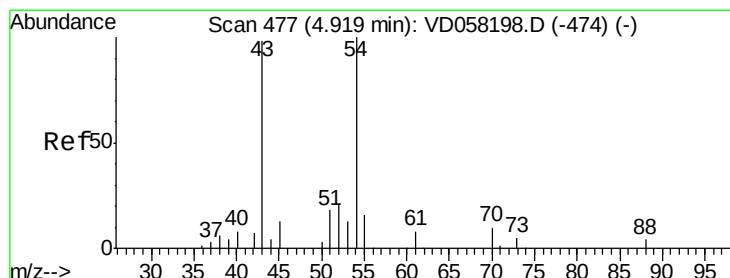
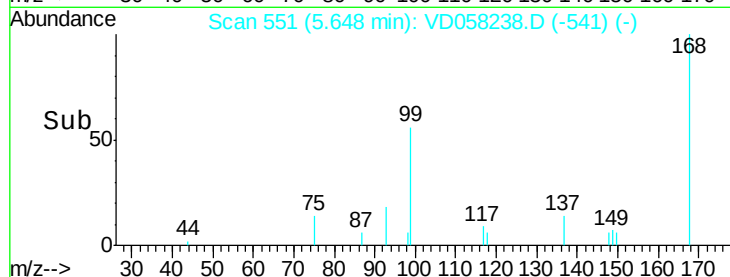
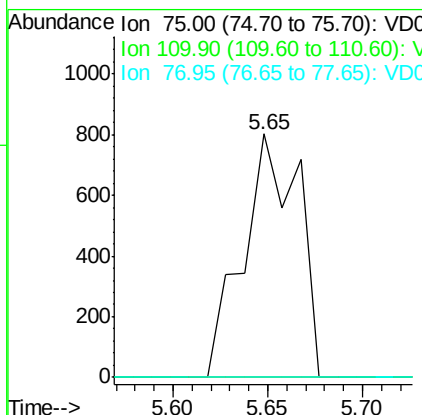
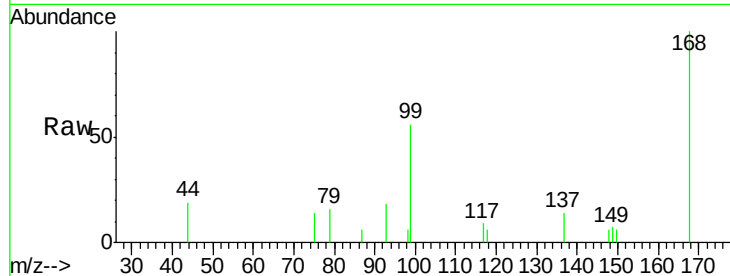




#36
 1,1-Dichloropropene
 Concen: 5.777 ug/l
 RT: 5.65 min Scan# 551
 Delta R.T. -0.10 min
 Lab File: VD058238.D
 Acq: 21 Jun 2018 6:28

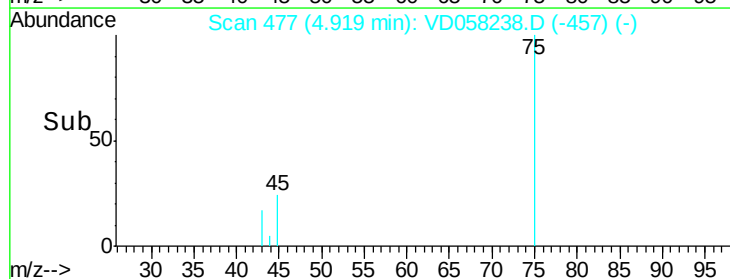
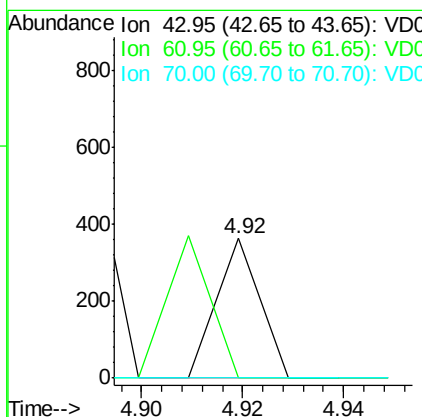
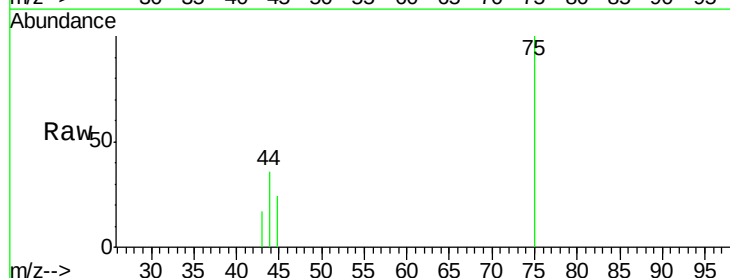
Instrument :
 MSVOA_D
 ClientSampleId :
 26KV-TP-4

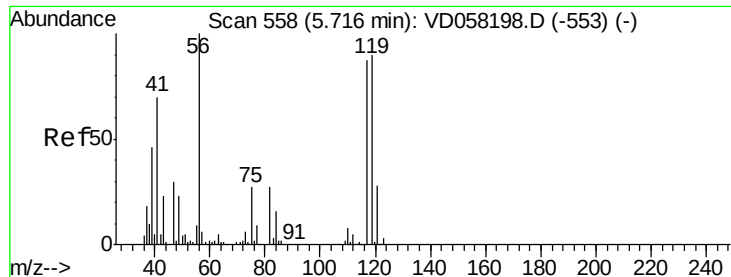
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	15.4	46.4#
77	0.0	25.4	38.2#



#37
 Ethyl Acetate
 Concen: 1.337 ug/l
 RT: 4.92 min Scan# 477
 Delta R.T. 0.00 min
 Lab File: VD058238.D
 Acq: 21 Jun 2018 6:28

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	0.0	5.7	8.5#





#38

Carbon Tetrachloride

Concen: 4.353 ug/l

RT: 5.67 min Scan# 553

Delta R.T. -0.05 min

Lab File: VD058238.D

Acq: 21 Jun 2018 6:28

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-4

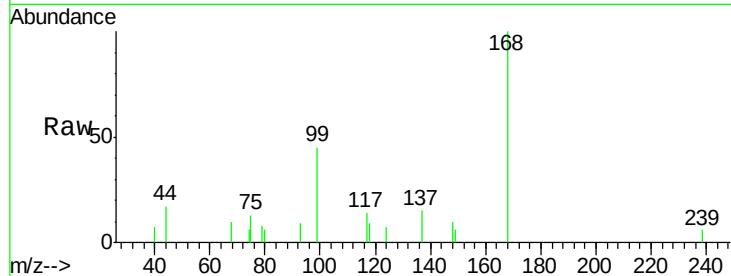
Tot Ion:117 Resp: 1221

Ion Ratio Lower Upper

117 100

119 0.0 78.8 118.2#

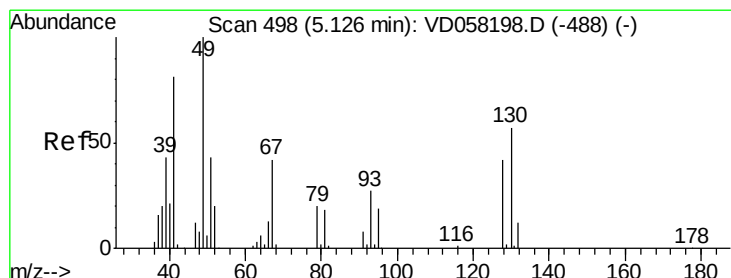
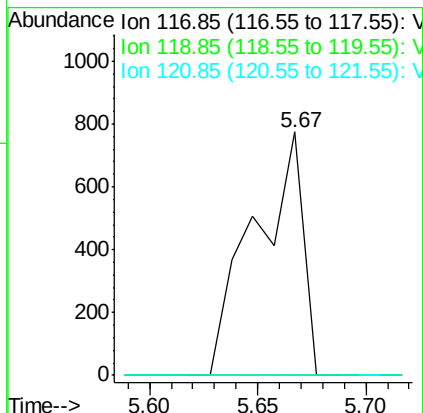
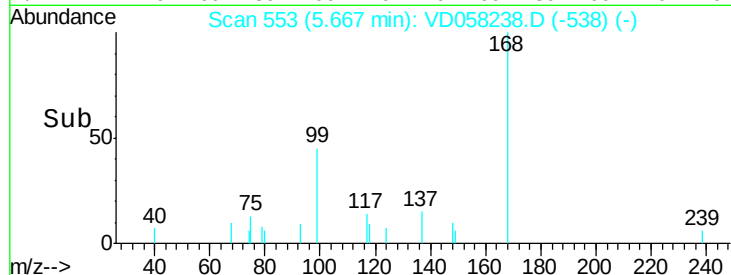
121 0.0 25.0 37.6#



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



#41

Methacrylonitrile

Concen: 2.626 ug/l

RT: 5.18 min Scan# 503

Delta R.T. 0.05 min

Lab File: VD058238.D

Acq: 21 Jun 2018 6:28

Tgt Ion: 41 Resp: 204

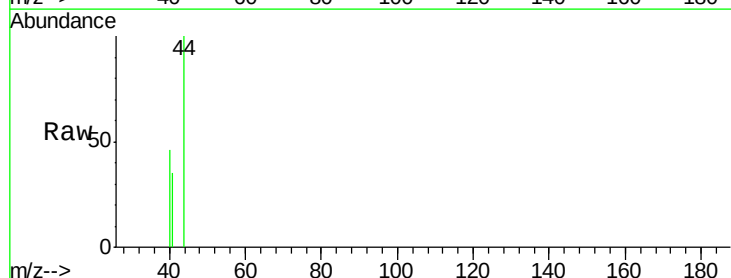
Ion Ratio Lower Upper

41 100

39 0.0 43.4 65.2#

67 0.0 41.7 62.5#

52 0.0 20.6 30.8#

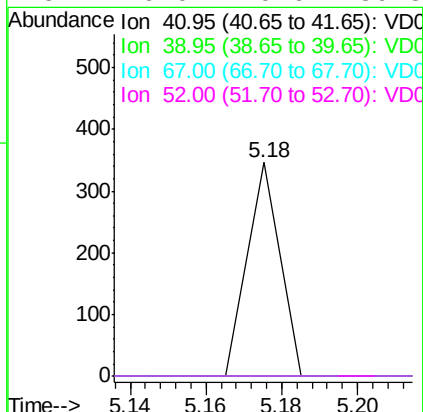
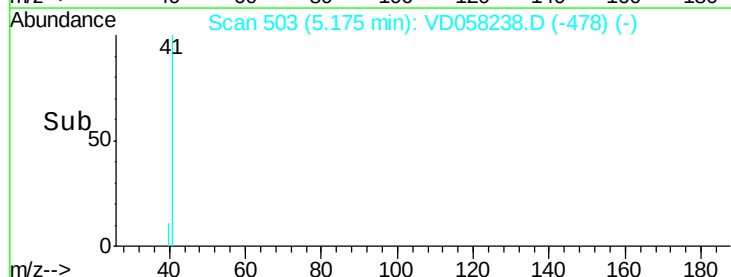


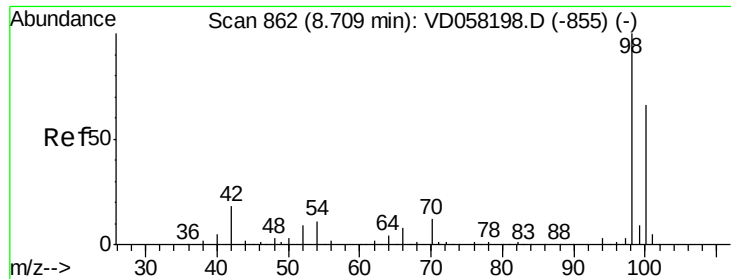
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

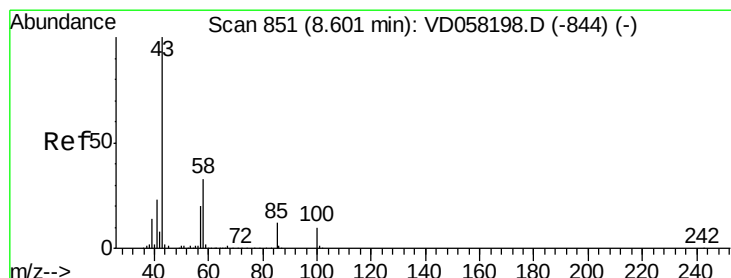
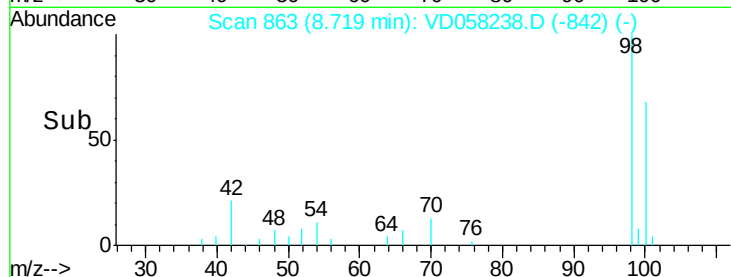
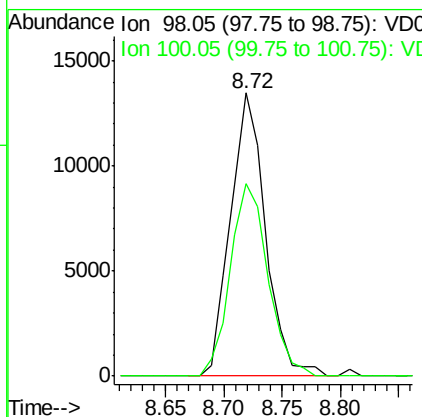
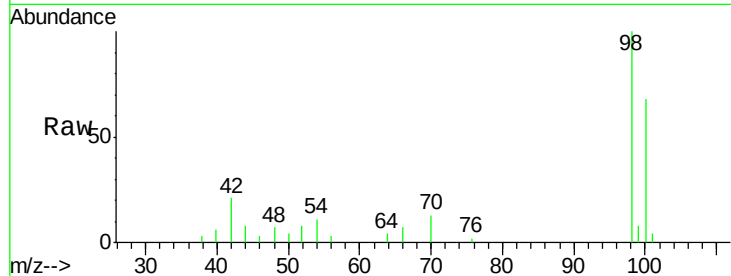




#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.72 min Scan# 863
Delta R.T. 0.01 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

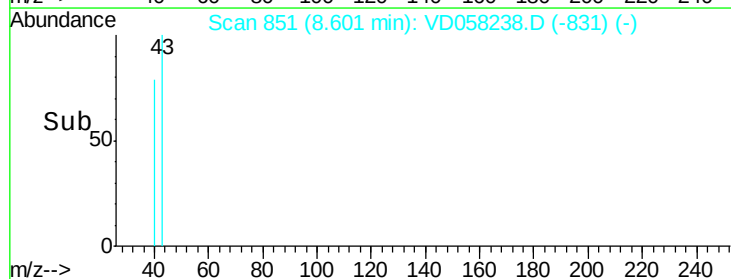
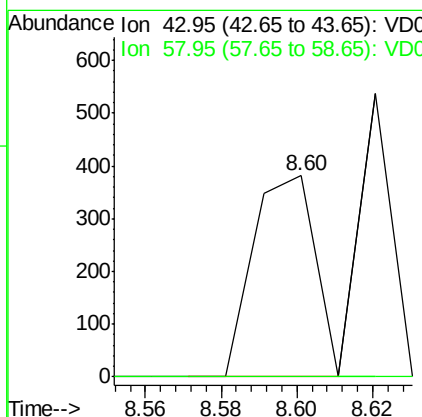
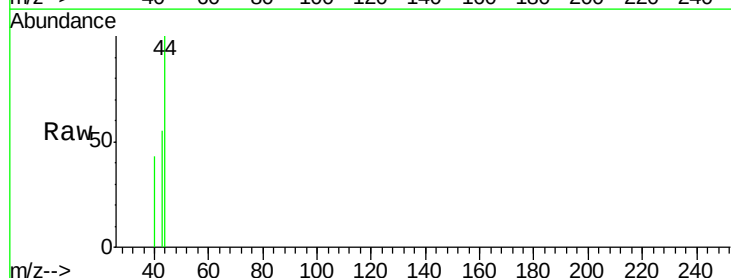
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-4

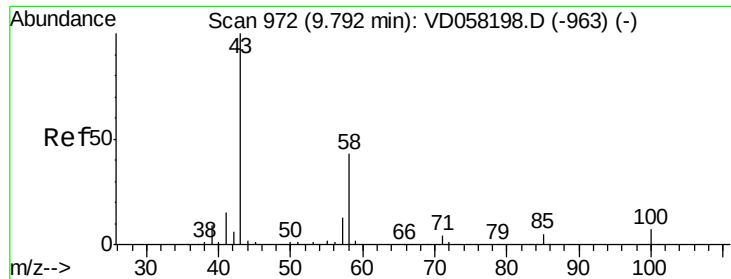
Tot Ion: 98 Resp: 28095
Ion Ratio Lower Upper
98 100
100 68.0 53.6 80.4



#51
4-Methyl-2-Pentanone
Concen: 3.074 ug/l
RT: 8.60 min Scan# 851
Delta R.T. 0.00 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

Tgt Ion: 43 Resp: 430
Ion Ratio Lower Upper
43 100
58 0.0 26.7 40.1#

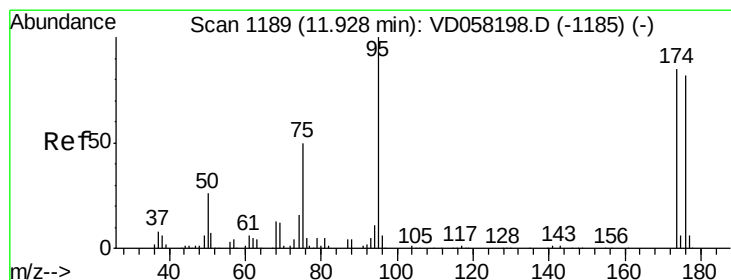
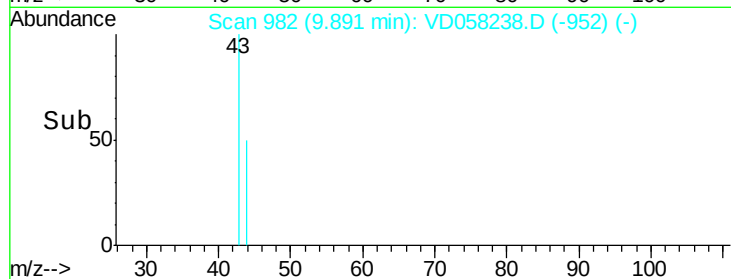
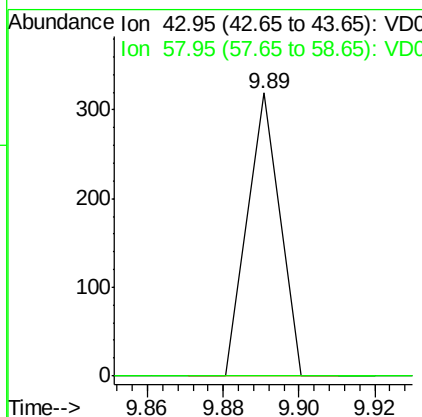
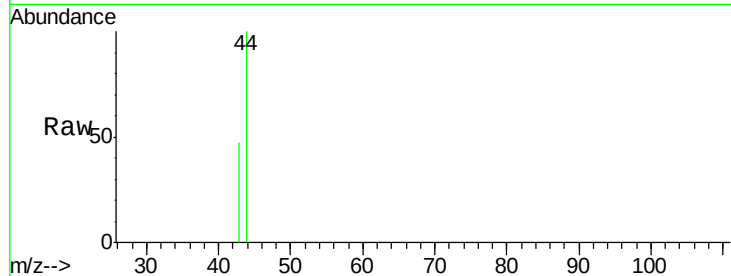




#59
2-Hexanone
Concen: 1.860 ug/l
RT: 9.89 min Scan# 982
Delta R.T. 0.10 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

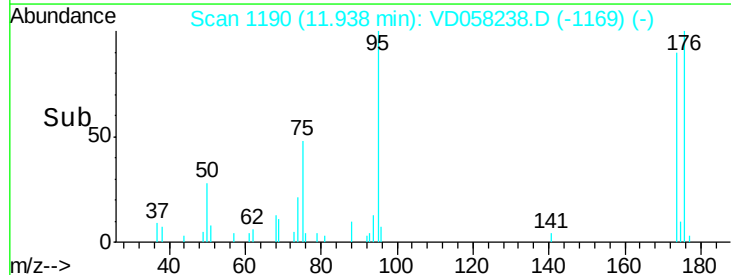
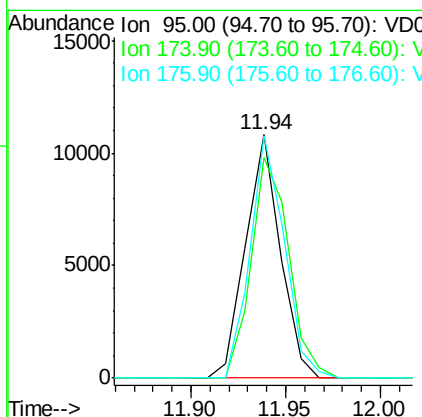
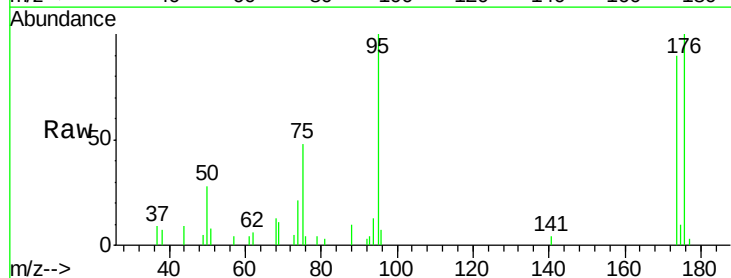
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-4

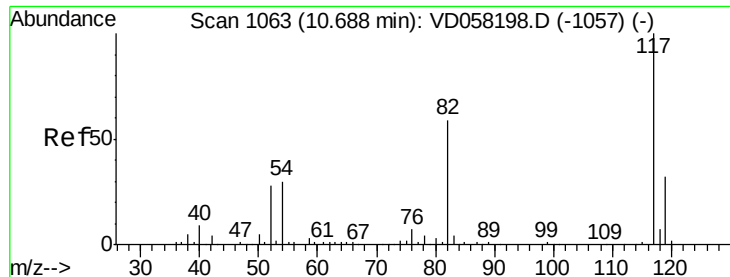
Tot Ion: 43 Resp: 188
Ion Ratio Lower Upper
43 100
58 0.0 21.7 65.1#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.94 min Scan# 1190
Delta R.T. 0.01 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

Tgt Ion: 95 Resp: 13737
Ion Ratio Lower Upper
95 100
174 90.4 0.0 170.2
176 99.5 0.0 164.6

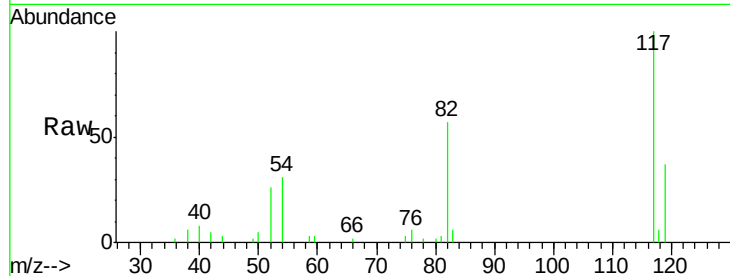




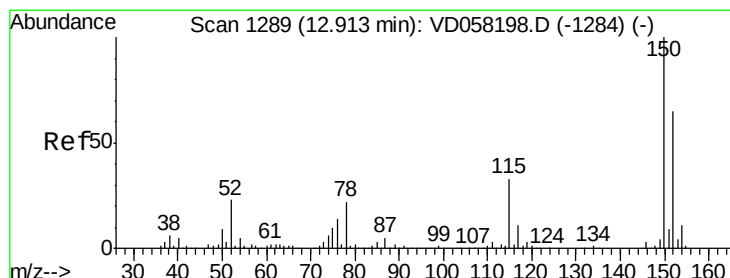
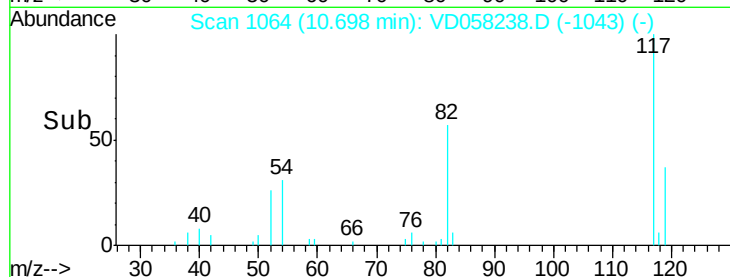
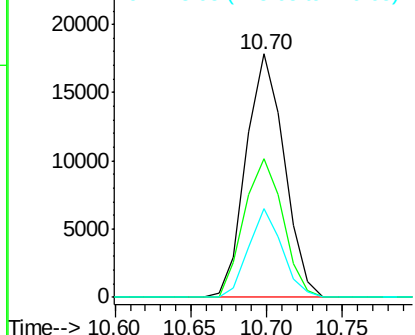
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-4

Tot Ion:117 Resp: 31481
Ion Ratio Lower Upper
117 100
82 57.0 47.0 70.6
119 36.6 25.3 37.9

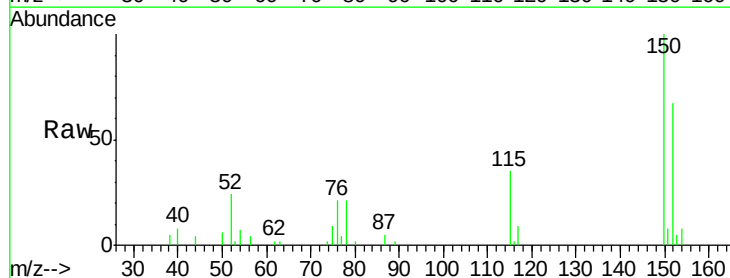


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

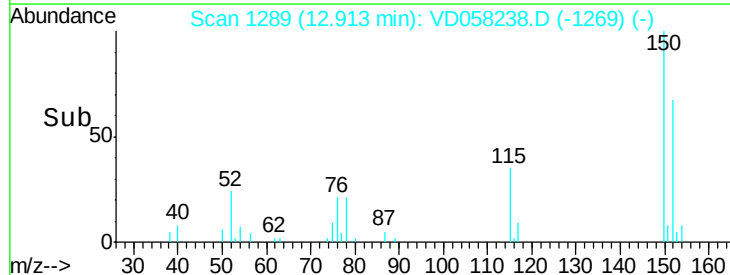
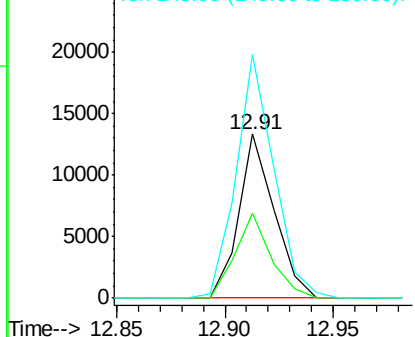


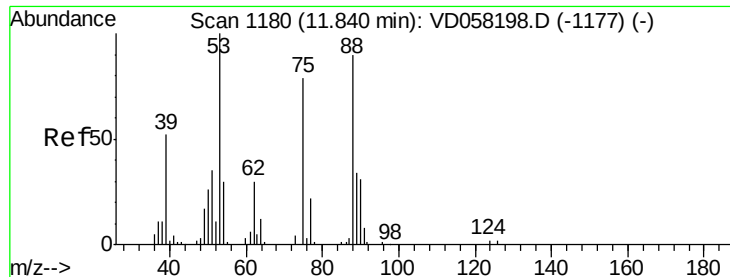
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058238.D
Acq: 21 Jun 2018 6:28

Tgt Ion:152 Resp: 15290
Ion Ratio Lower Upper
152 100
115 51.7 25.1 75.3
150 148.7 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: 135.914 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058238.D

Acq: 21 Jun 2018 6:28

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-4

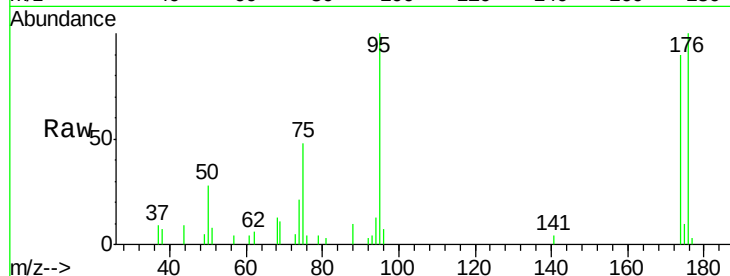
Tot Ion: 75 Resp: 7400

Ion Ratio Lower Upper

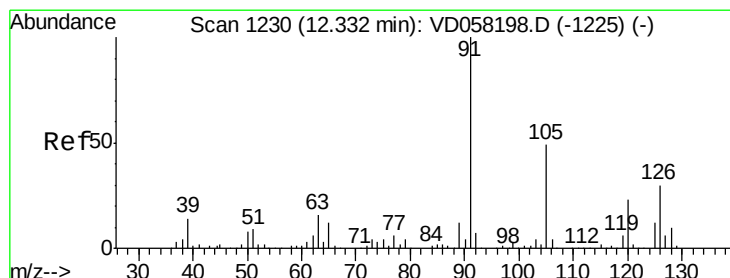
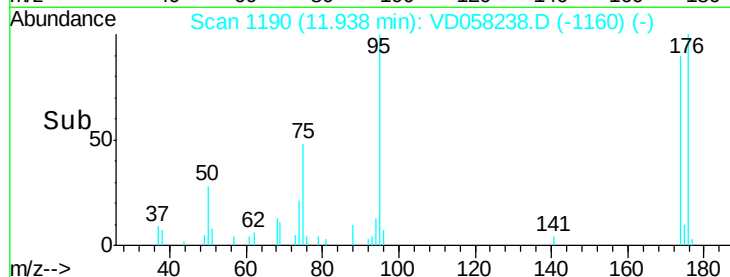
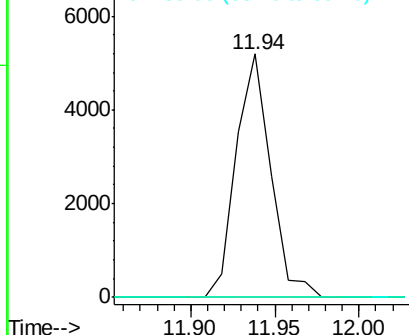
75 100

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: 12.33 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VD058238.D

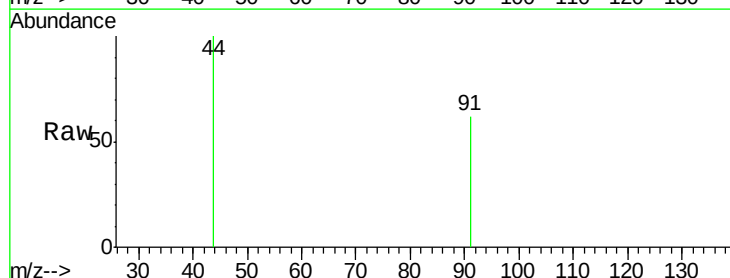
Acq: 21 Jun 2018 6:28

Tgt Ion: 91 Resp: 181

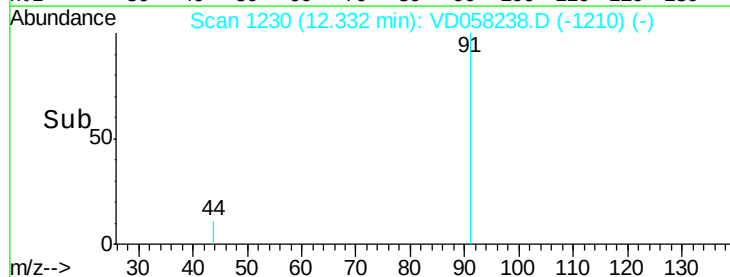
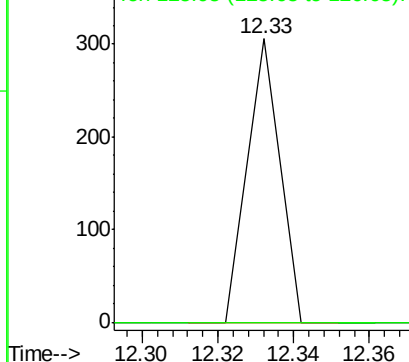
Ion Ratio Lower Upper

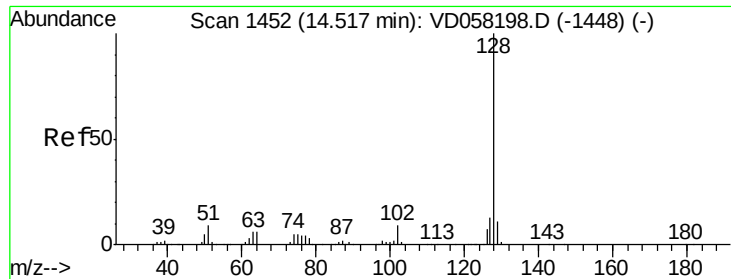
91 100

126 0.0 14.9 44.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





#95

Naphthalene

Concen: 1.818 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058238.D

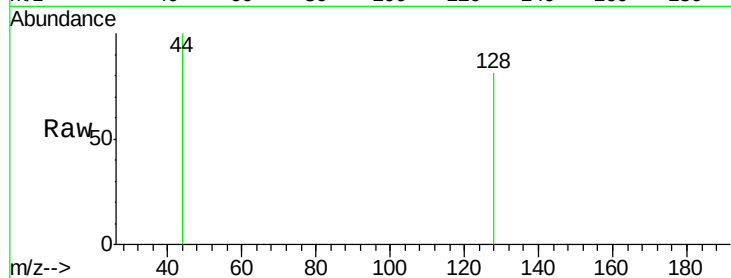
Acq: 21 Jun 2018 6:28

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-4



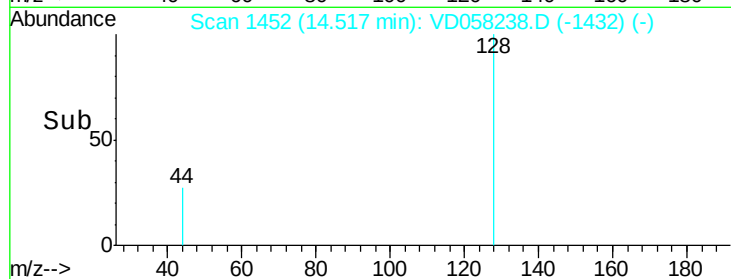
Tot Ion:128 Resp: 928

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



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

