

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\
 Data File : VD058263.D
 Acq On : 21 Jun 2018 20:18
 Operator : VA/AP
 Sample : J3603-13RE
 Misc : 4.80µl/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 26KV-TP-10RE

Quant Time: Jun 22 06:17:16 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	5.65	168	419639	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.69	114	540657	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	257854	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.92	152	40190	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	267962	63.22	ug/l	0.01
Spiked Amount			Recovery	=	126.44%	
35) Dibromofluoromethane	5.55	113	286773	65.17	ug/l	0.00
Spiked Amount			Recovery	=	130.34%	
50) Toluene-d8	8.71	98	505980	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
62) 4-Bromofluorobenzene	11.93	95	80845	18.59	ug/l	0.00
Spiked Amount			Recovery	=	37.18%	

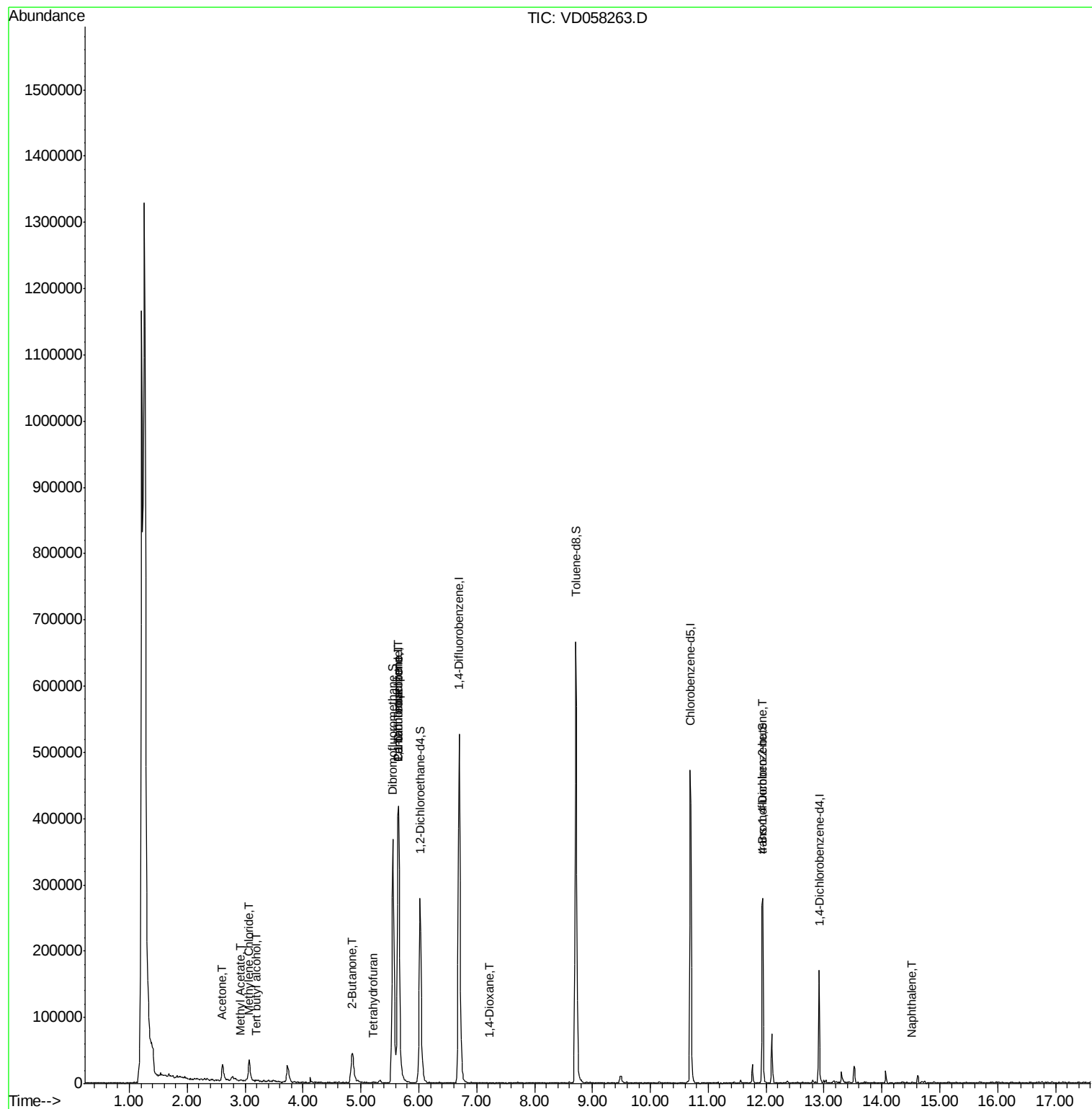
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.34	85	1223	Below Cal	#	43
3) Chloromethane	1.50	50	278	Below Cal	#	43
11) Tert butyl alcohol	3.19	59	945	6.760	ug/l #	78
16) Acetone	2.61	43	42711	73.682	ug/l	98
18) Methyl Acetate	2.92	43	1471	1.190	ug/l #	65
20) Methylene Chloride	3.07	84	11870	3.403	ug/l	97
25) 2-Butanone	4.85	43	5645	4.468	ug/l #	60
29) Tetrahydrofuran	5.23	42	862	1.282	ug/l #	37
31) Cyclohexane	5.65	56	10216	Below Cal	#	1
36) 1,1-Dichloropropene	5.64	75	35091	6.561	ug/l #	48
38) Carbon Tetrachloride	5.64	117	34248	6.444	ug/l #	14
49) 1,4-Dioxane	7.23	88	186	8.345	ug/l #	9
81) trans-1,4-Dichloro-2-buten	11.93	75	39235	274.154	ug/l #	1
82) 4-Chlorotoluene	12.32	91	203	Below Cal	#	45
95) Naphthalene	14.53	128	1470	1.096	ug/l #	70

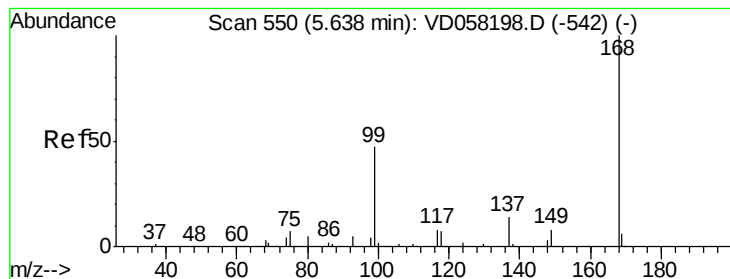
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

Instrument :

MSVOA_D

ClientSampleId :

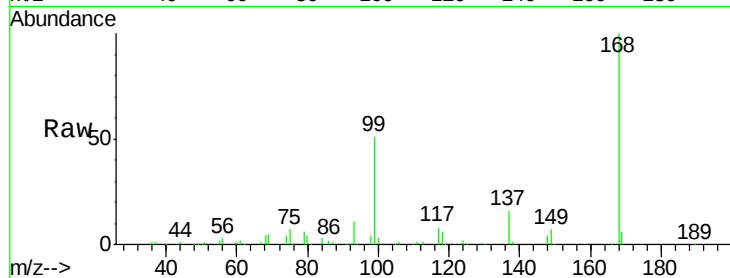
26KV-TP-10RE

Tot Ion:168 Resp: 419639

Ion Ratio Lower Upper

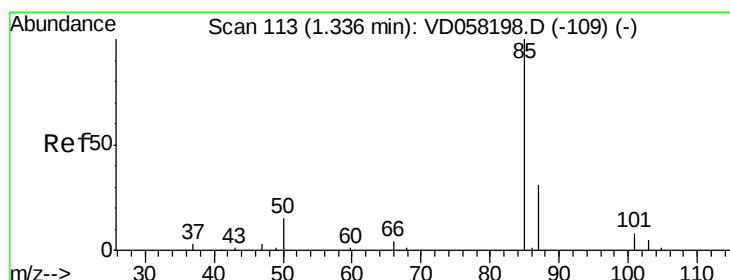
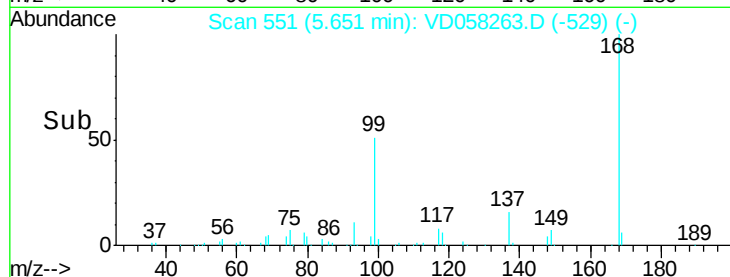
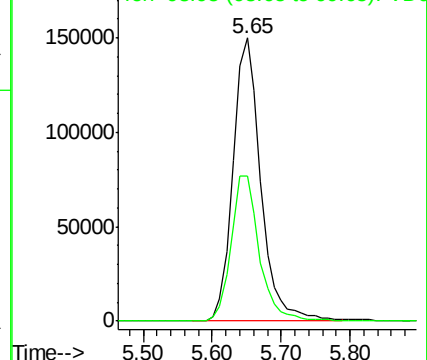
168 100

99 51.5 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.34 min Scan# 113

Delta R.T. 0.00 min

Lab File: VD058263.D

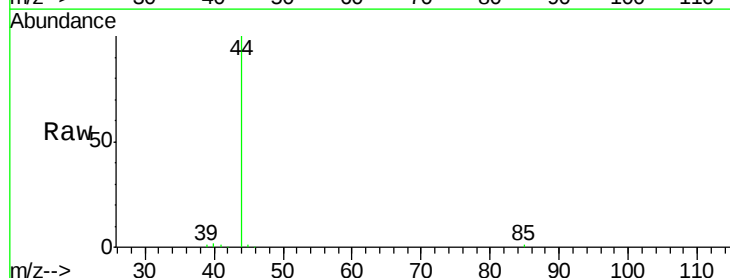
Acq: 21 Jun 2018 20:18

Tgt Ion: 85 Resp: 1223

Ion Ratio Lower Upper

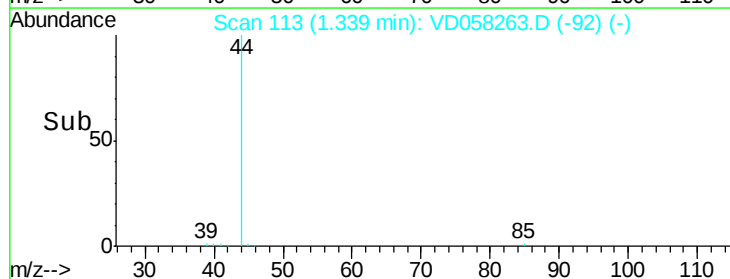
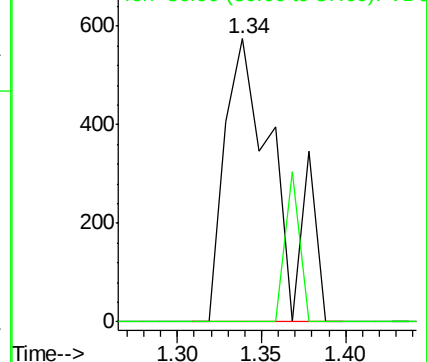
85 100

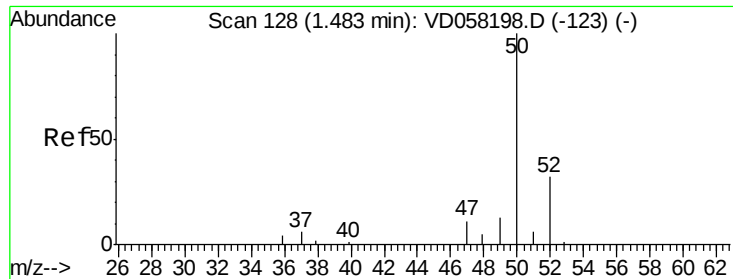
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 1.50 min Scan# 129

Delta R.T. 0.01 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

Instrument :

MSVOA_D

ClientSampleId :

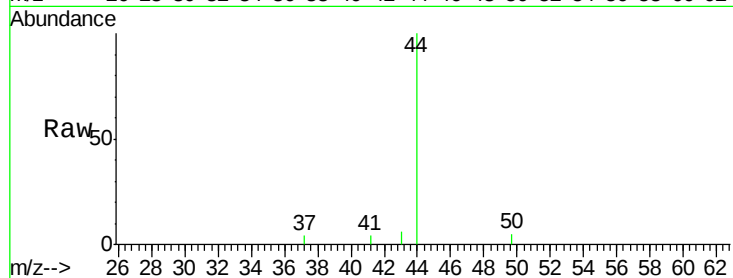
26KV-TP-10RE

Tot Ion: 50 Resp: 278

Ion Ratio Lower Upper

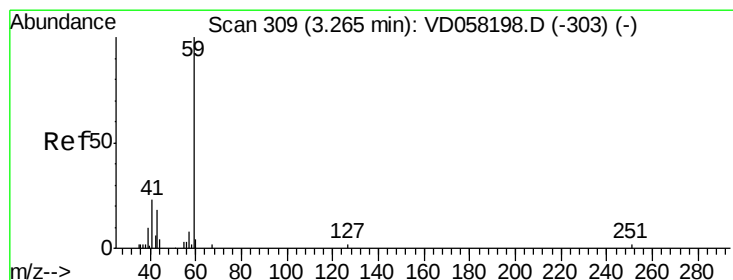
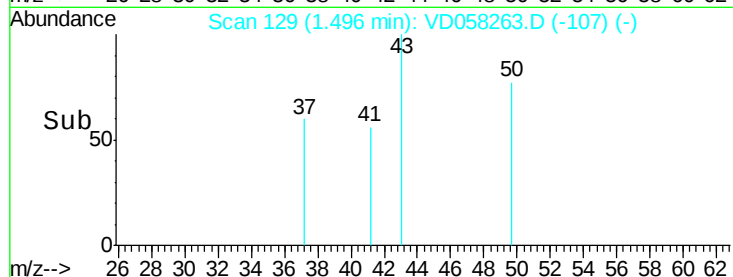
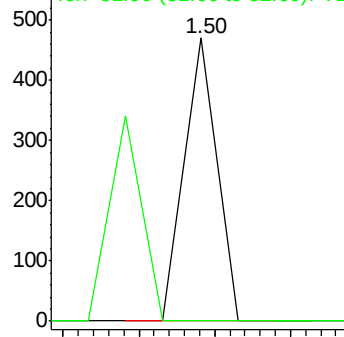
50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#11

Tert butyl alcohol

Concen: 6.760 ug/l

RT: 3.19 min Scan# 301

Delta R.T. -0.08 min

Lab File: VD058263.D

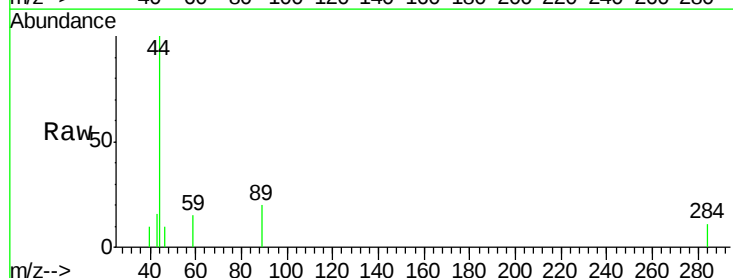
Acq: 21 Jun 2018 20:18

Tgt Ion: 59 Resp: 945

Ion Ratio Lower Upper

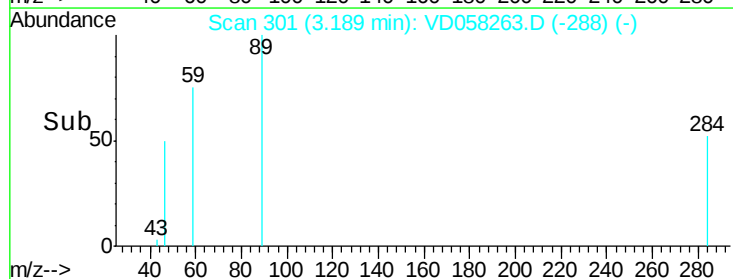
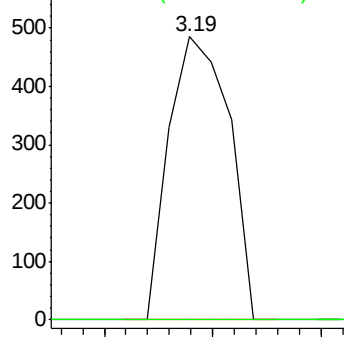
59 100

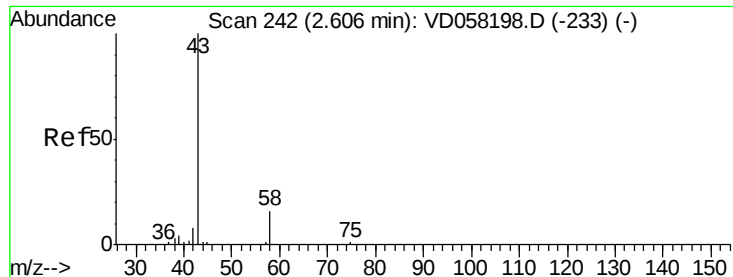
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 73.682 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

Instrument :

MSVOA_D

ClientSampleId :

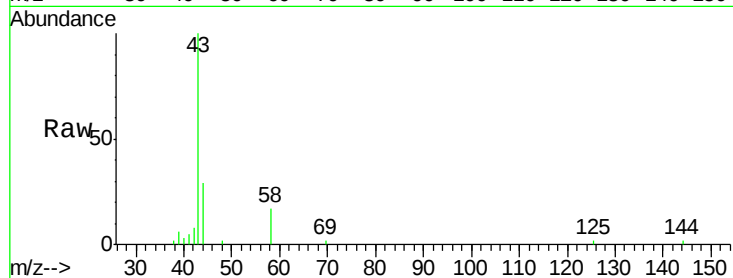
26KV-TP-10RE

Tot Ion: 43 Resp: 42711

Ion Ratio Lower Upper

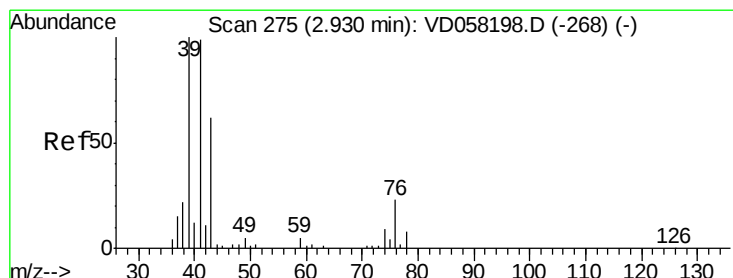
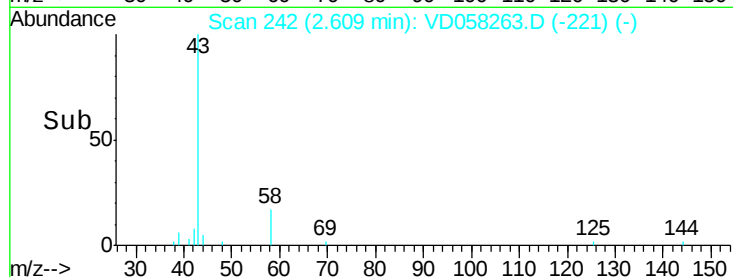
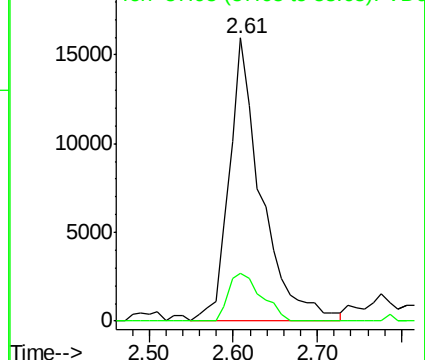
43 100

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: 1.190 ug/l

RT: 2.92 min Scan# 274

Delta R.T. -0.01 min

Lab File: VD058263.D

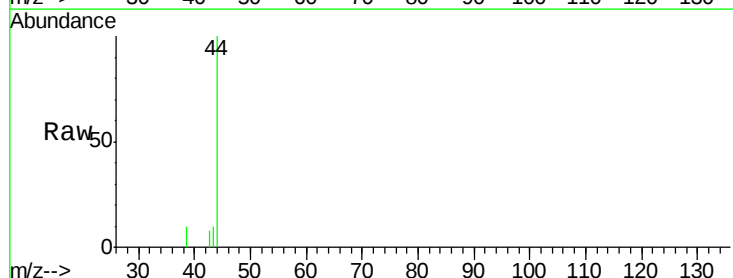
Acq: 21 Jun 2018 20:18

Tgt Ion: 43 Resp: 1471

Ion Ratio Lower Upper

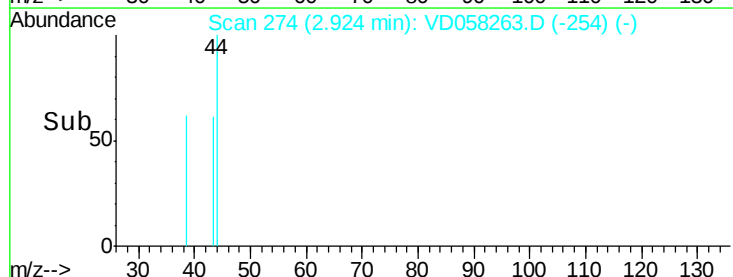
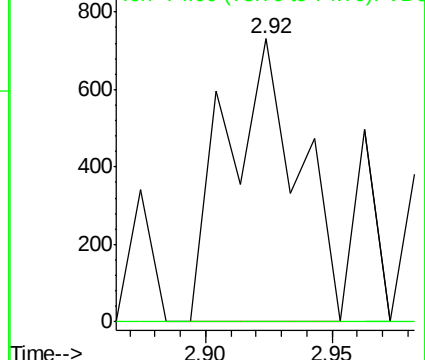
43 100

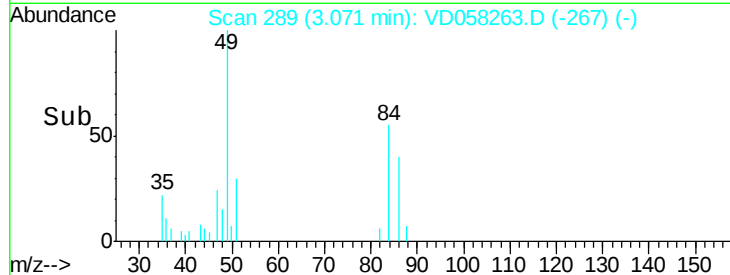
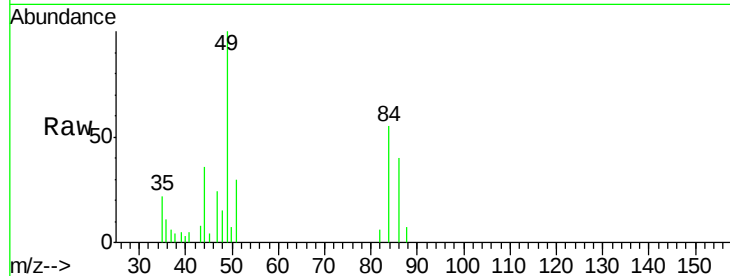
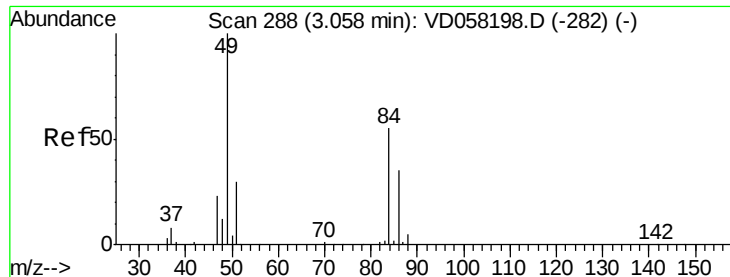
74 0.0 11.7 17.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

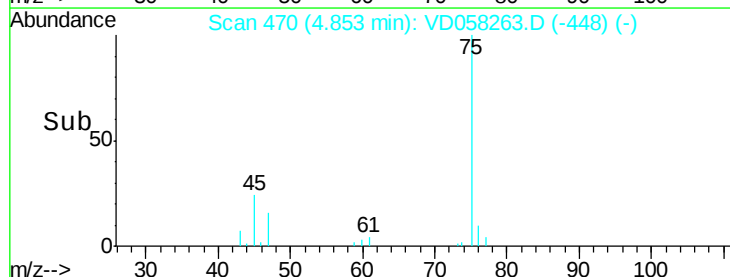
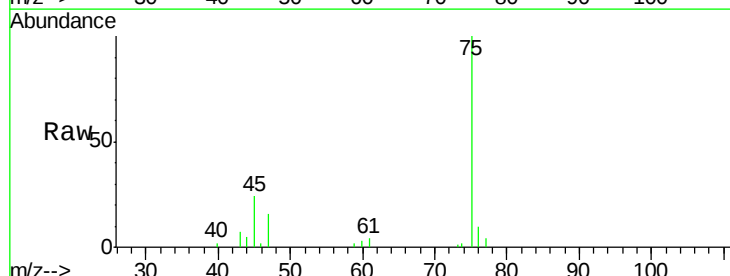
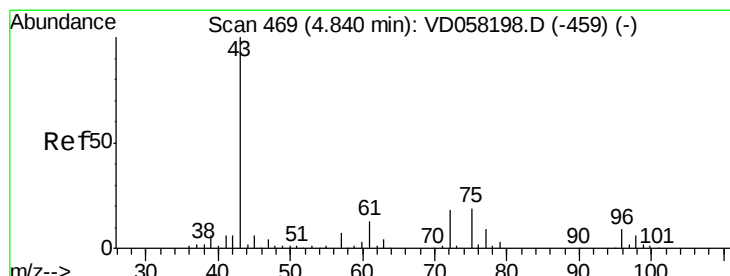
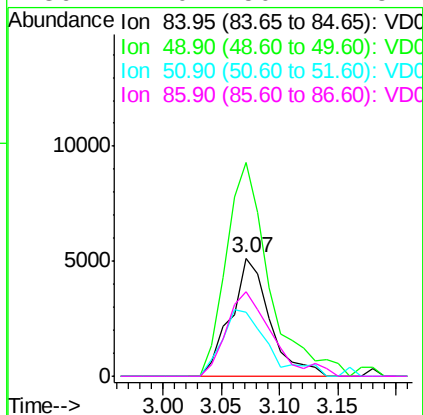




#20
Methvlene Chloride
Concen: 3.403 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD058263.D
Acq: 21 Jun 2018 20:18

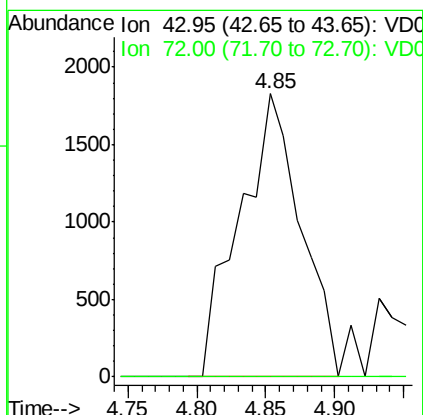
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-10RE

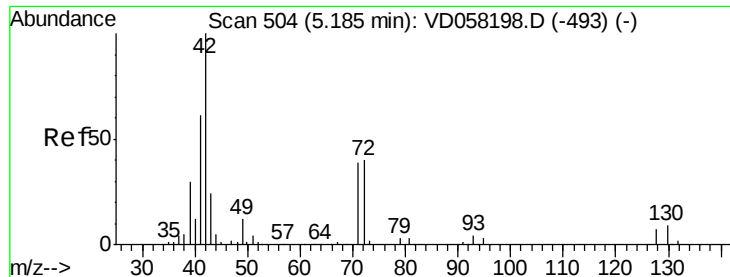
Tot Ion:	84	Resp:	11870
Ion	Ratio	Lower	Upper
84	100		
49	181.2	145.0	217.6
51	54.6	42.9	64.3
86	72.0	50.1	75.1



#25
2-Butanone
Concen: 4.468 ug/l
RT: 4.85 min Scan# 470
Delta R.T. 0.01 min
Lab File: VD058263.D
Acq: 21 Jun 2018 20:18

Tgt Ion:	43	Resp:	5645
Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.1	21.1#

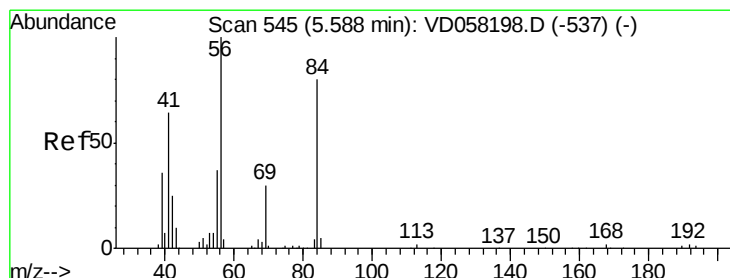
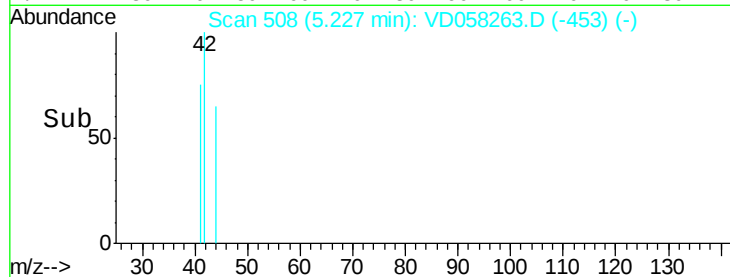
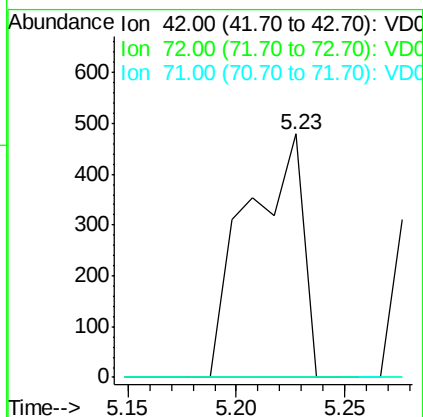
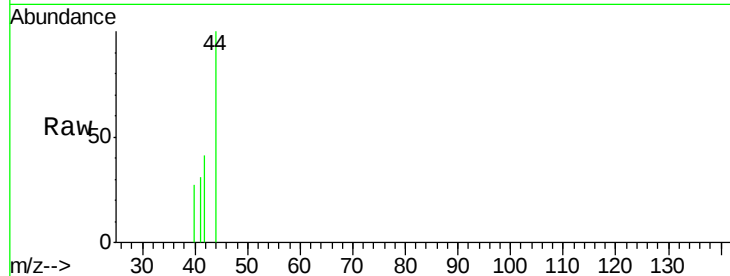




#29
Tetrahydrofuran
Concen: 1.282 ug/l
RT: 5.23 min Scan# 508
Delta R.T. 0.04 min
Lab File: VD058263.D
Acq: 21 Jun 2018 20:18

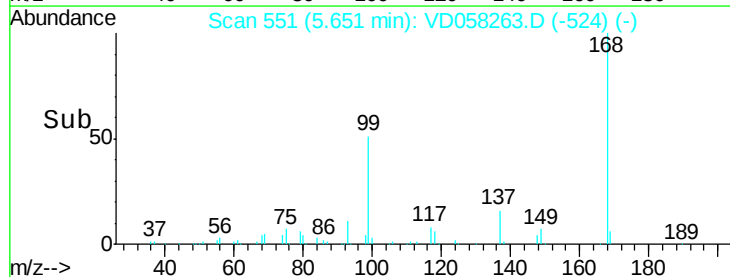
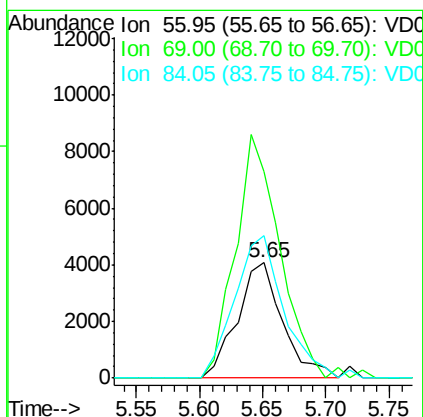
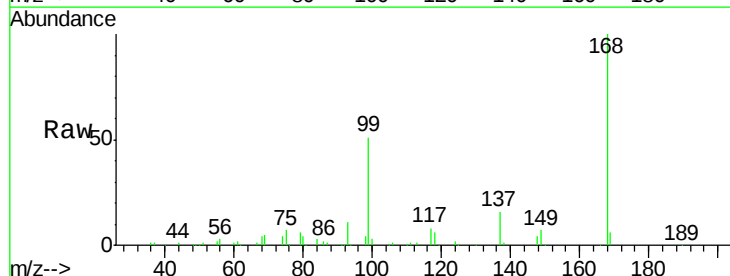
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-10RE

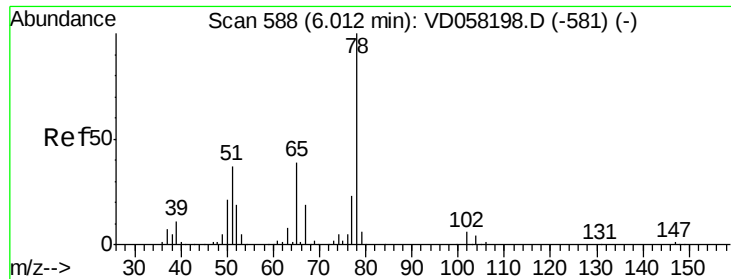
Tot Ion: 42 Resp: 862
Ion Ratio Lower Upper
42 100
72 0.0 30.2 45.2#
71 0.0 30.1 45.1#



#31
Cyclohexane
Concen: Below Cal
RT: 5.65 min Scan# 551
Delta R.T. 0.06 min
Lab File: VD058263.D
Acq: 21 Jun 2018 20:18

Tgt Ion: 56 Resp: 10216
Ion Ratio Lower Upper
56 100
69 179.3 23.6 35.4#
84 123.2 65.2 97.8#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

Instrument :

MSVOA_D

ClientSampleId :

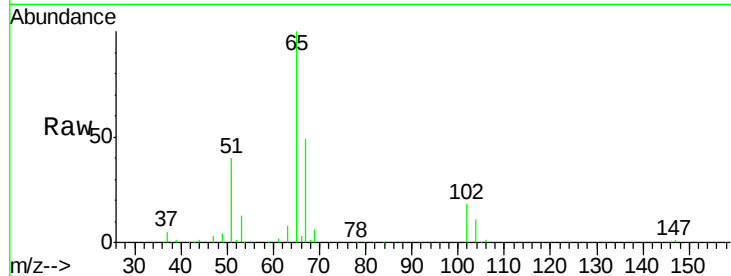
26KV-TP-10RE

Tot Ion: 65 Resp: 267962

Ion Ratio Lower Upper

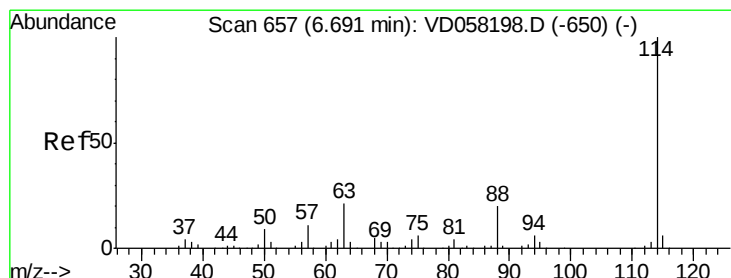
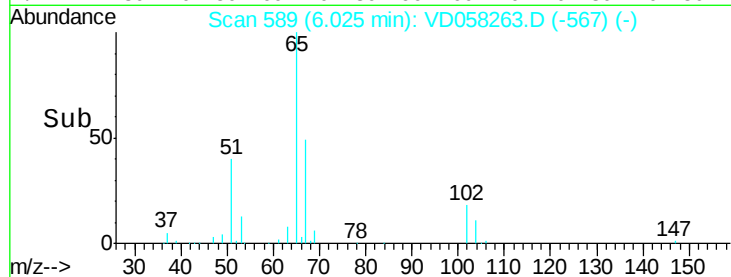
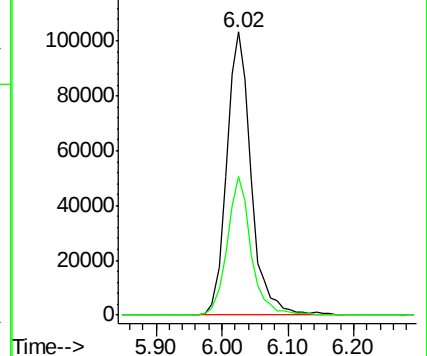
65 100

67 48.8 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: 50.000 ug/l

RT: 6.69 min Scan# 657

Delta R.T. 0.00 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

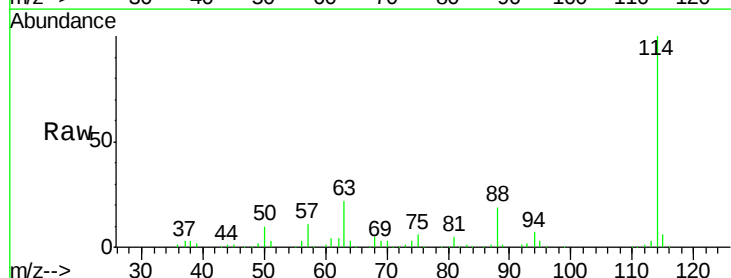
Tgt Ion: 114 Resp: 540657

Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.6

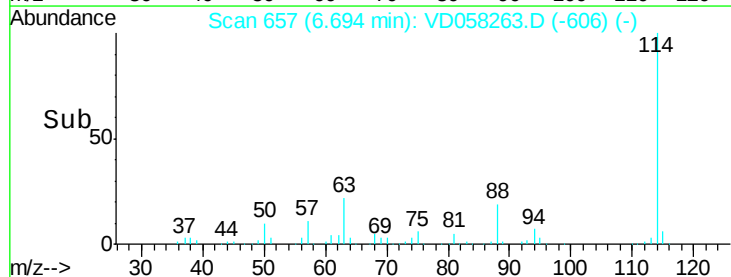
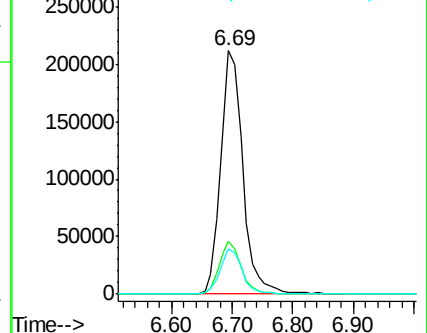
88 18.6 0.0 40.6

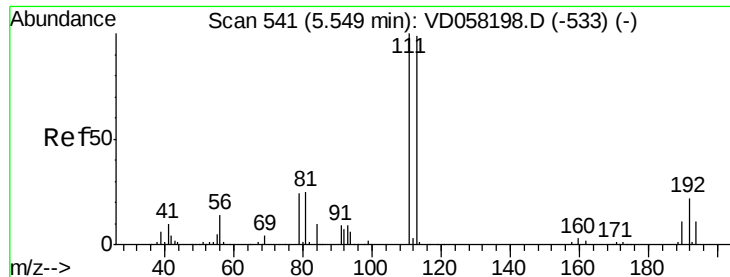


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. 0.00 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-10RE

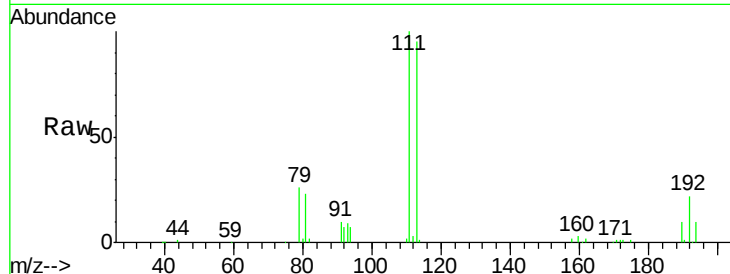
Tot Ion:113 Resp: 286773

Ion Ratio Lower Upper

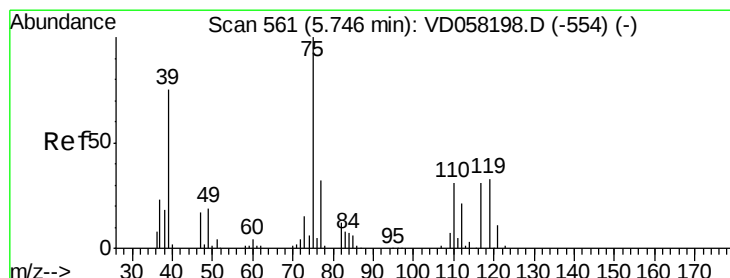
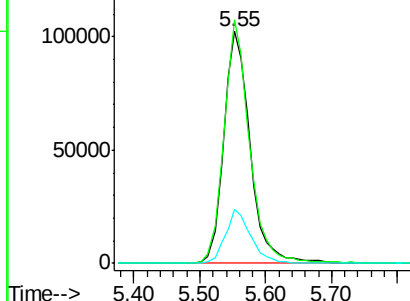
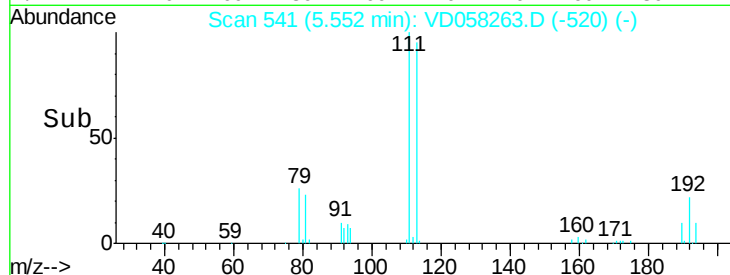
113 100

111 105.0 80.6 121.0

192 23.3 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: 6.561 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.11 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

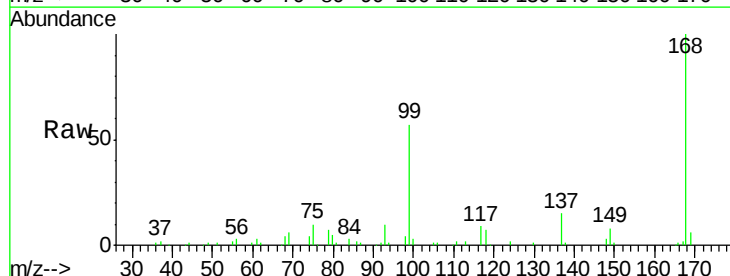
Tgt Ion: 75 Resp: 35091

Ion Ratio Lower Upper

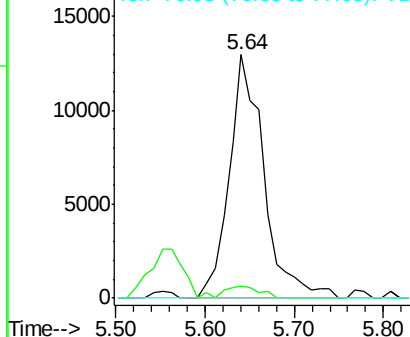
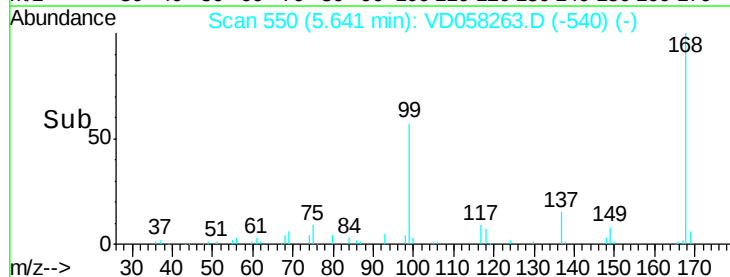
75 100

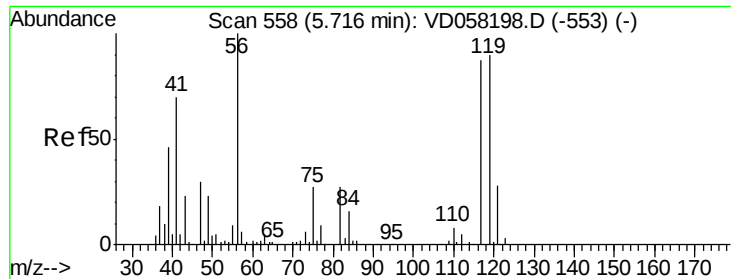
110 5.0 15.4 46.4#

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: 6.444 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.08 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-10RE

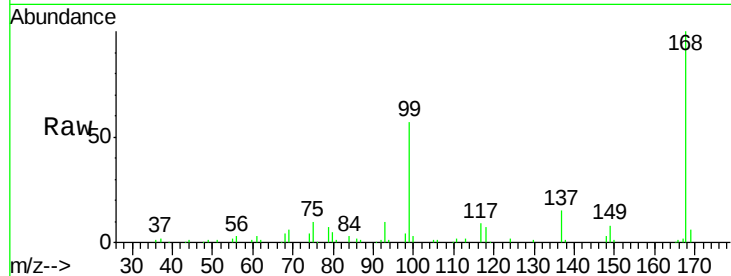
Tot Ion:117 Resp: 34248

Ion Ratio Lower Upper

117 100

119 3.9 78.8 118.2#

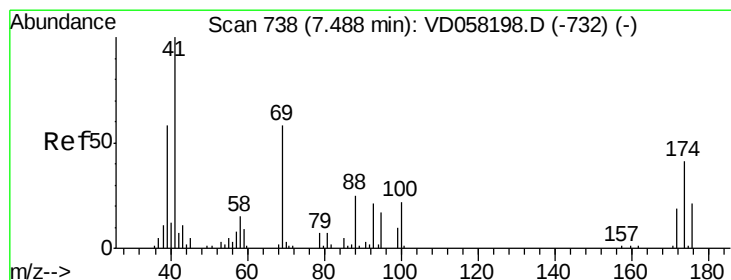
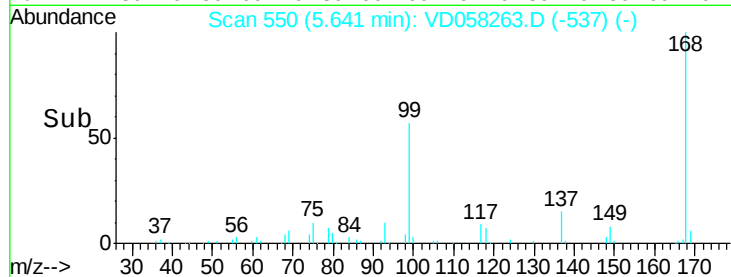
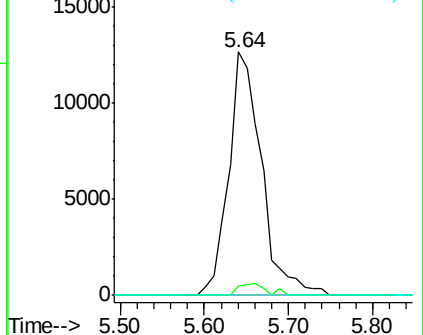
121 0.0 25.0 37.6#



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



#49

1,4-Dioxane

Concen: 8.345 ug/l

RT: 7.23 min Scan# 711

Delta R.T. -0.26 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

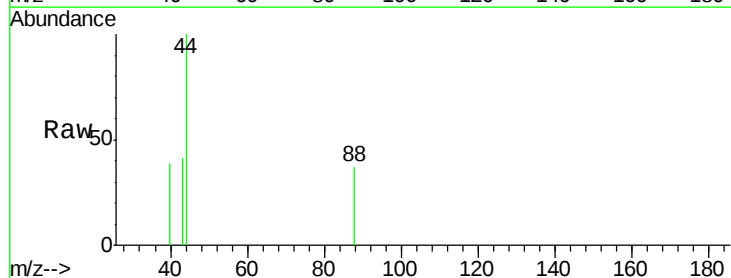
Tgt Ion: 88 Resp: 186

Ion Ratio Lower Upper

88 100

43 110.5 34.2 51.2#

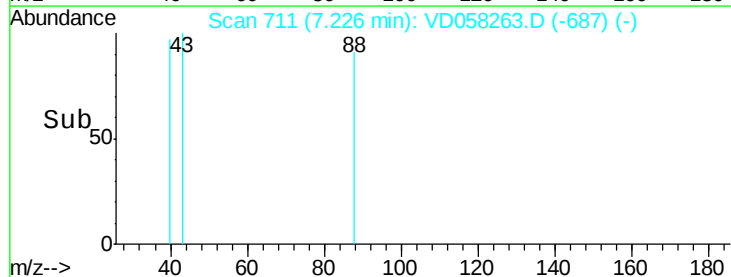
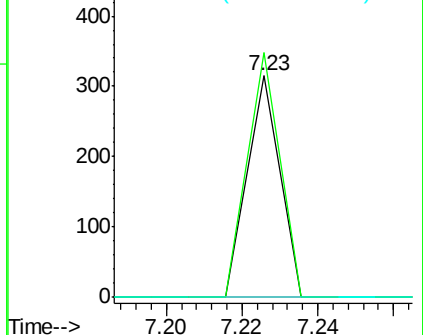
58 0.0 47.9 71.9#

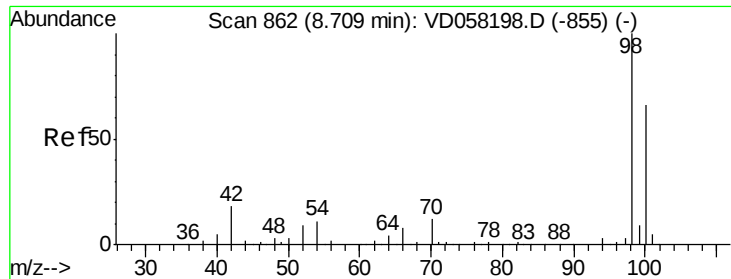


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

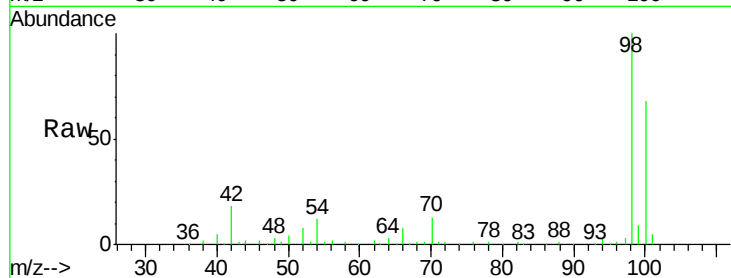




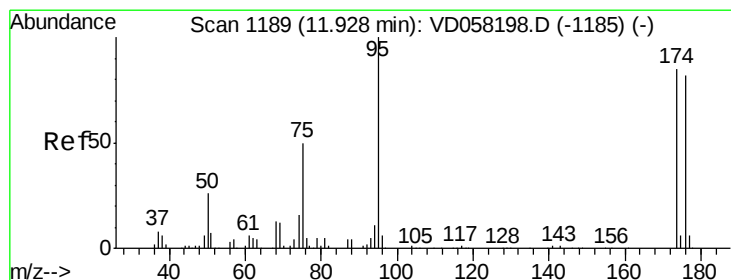
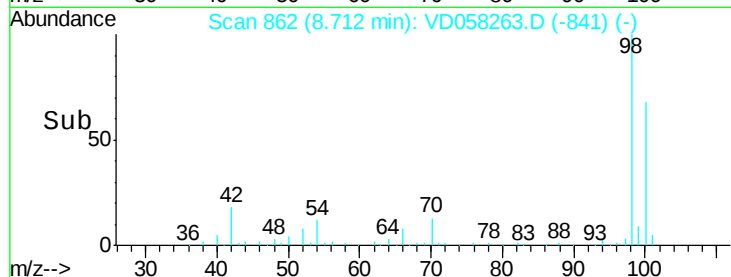
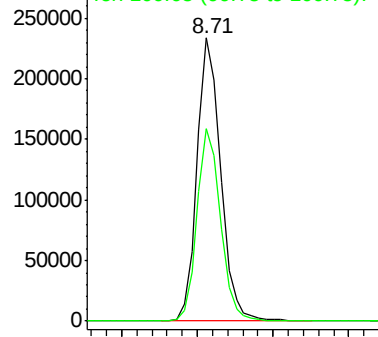
#50
Toluene-d8
Concen: 8.345 ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.00 min
Lab File: VD058263.D
Acq: 21 Jun 2018 20:18

Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-10RE

Tot Ion: 98 Resp: 505980
Ion Ratio Lower Upper
98 100
100 68.1 53.6 80.4

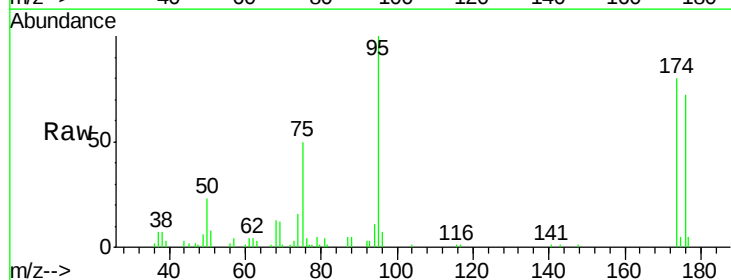


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

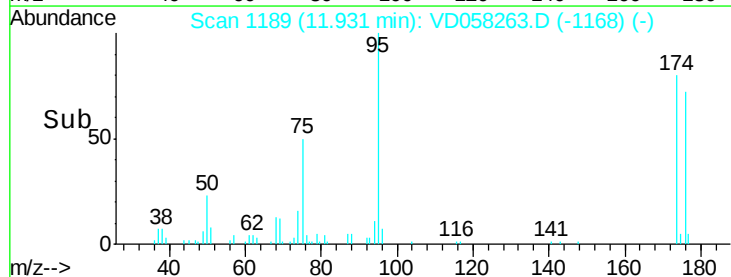
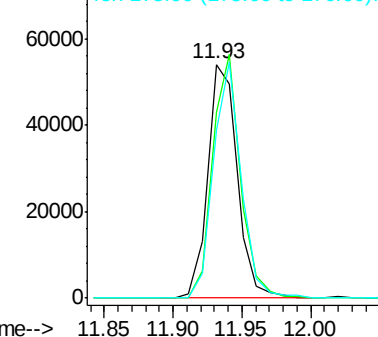


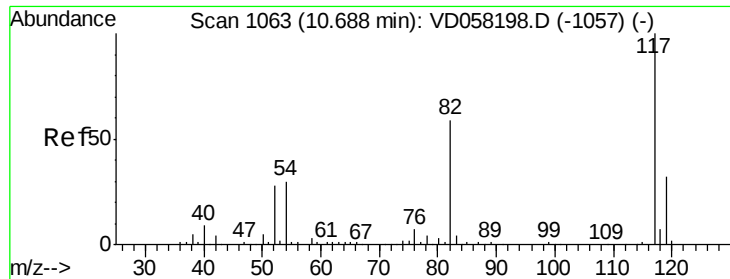
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VD058263.D
Acq: 21 Jun 2018 20:18

Tgt Ion: 95 Resp: 80845
Ion Ratio Lower Upper
95 100
174 79.7 0.0 170.2
176 71.9 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): VDC
Ion 175.90 (175.60 to 176.60): VDC

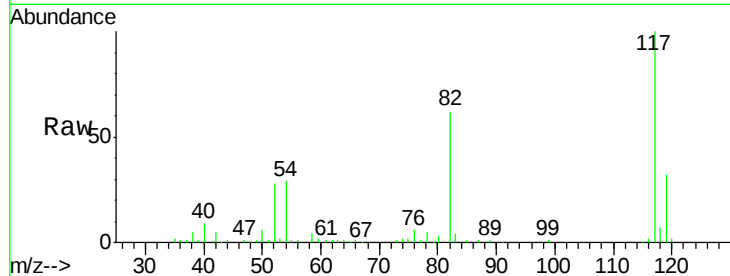




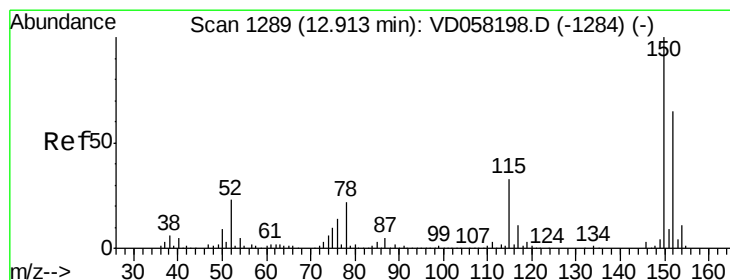
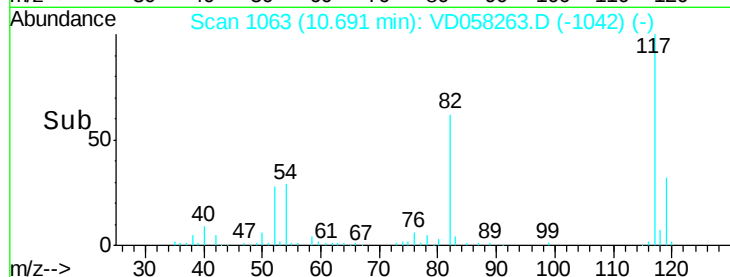
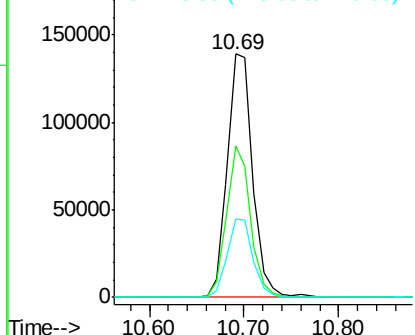
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VD058263.D
Acq: 21 Jun 2018 20:18

Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-10RE

Tot Ion:117 Resp: 257854
Ion Ratio Lower Upper
117 100
82 62.1 47.0 70.6
119 32.5 25.3 37.9

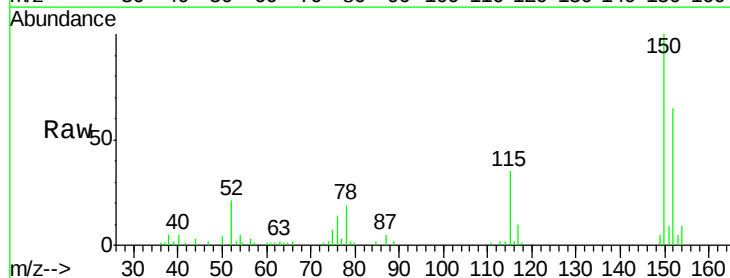


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

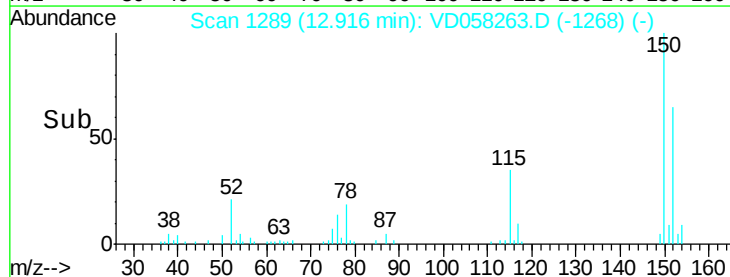
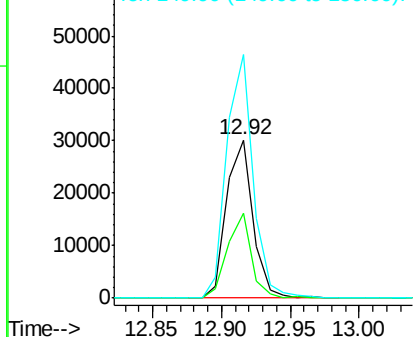


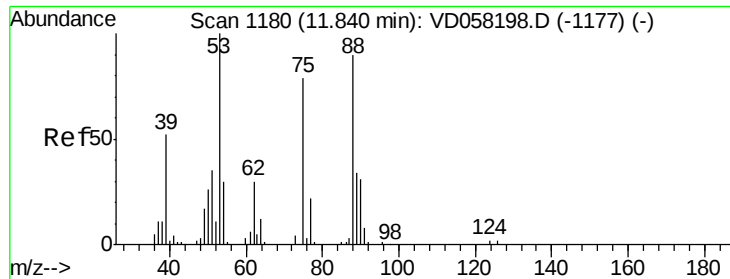
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.92 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058263.D
Acq: 21 Jun 2018 20:18

Tgt Ion:152 Resp: 40190
Ion Ratio Lower Upper
152 100
115 53.4 25.1 75.3
150 153.9 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: 274.154 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-10RE

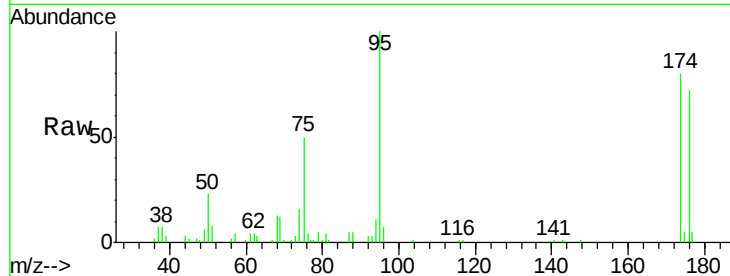
Tot Ion: 75 Resp: 39235

Ion Ratio Lower Upper

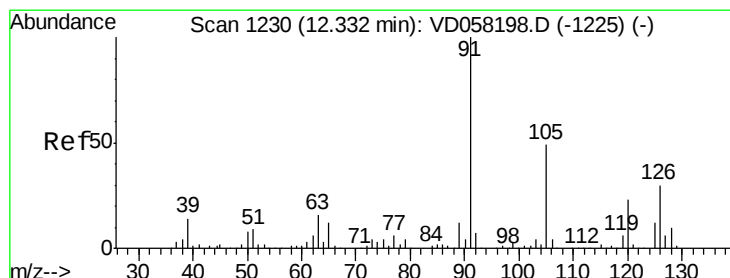
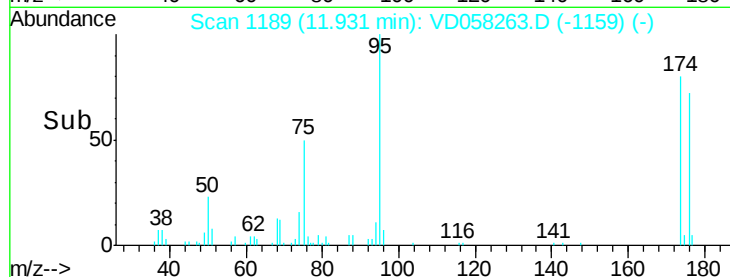
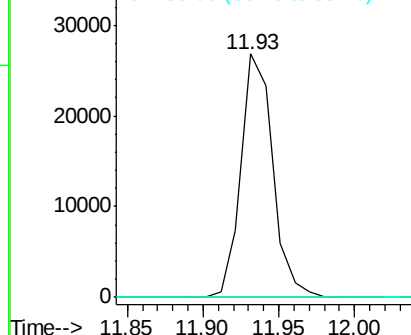
75 100

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: 12.32 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VD058263.D

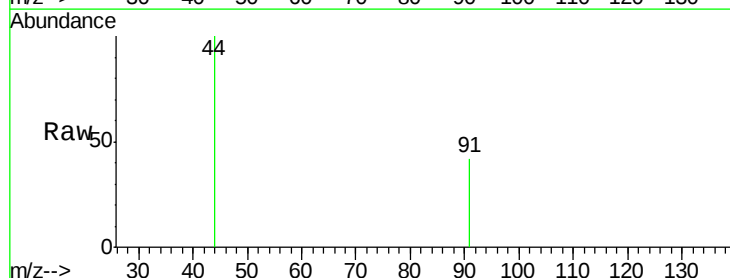
Acq: 21 Jun 2018 20:18

Tgt Ion: 91 Resp: 203

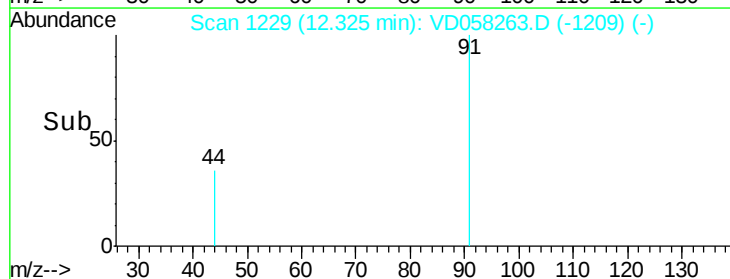
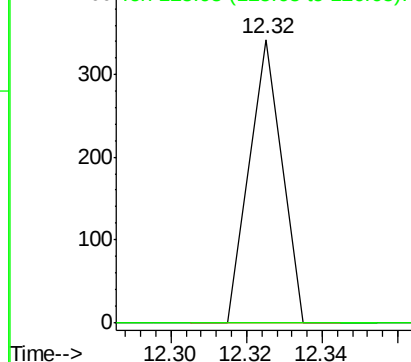
Ion Ratio Lower Upper

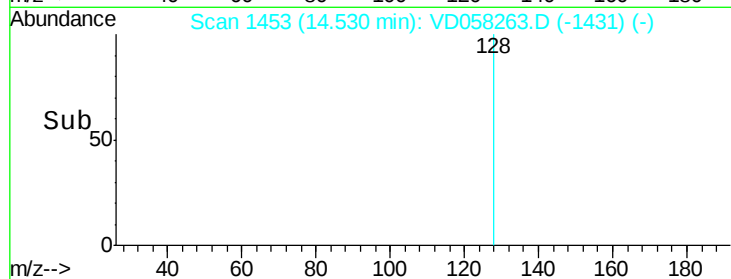
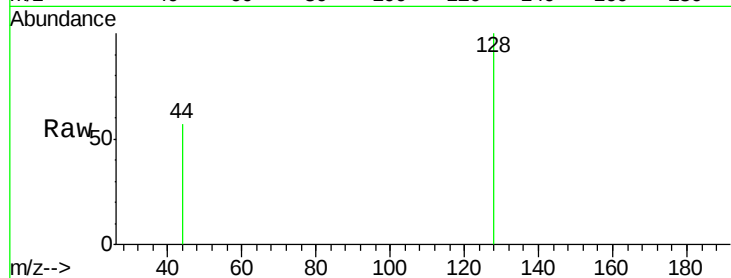
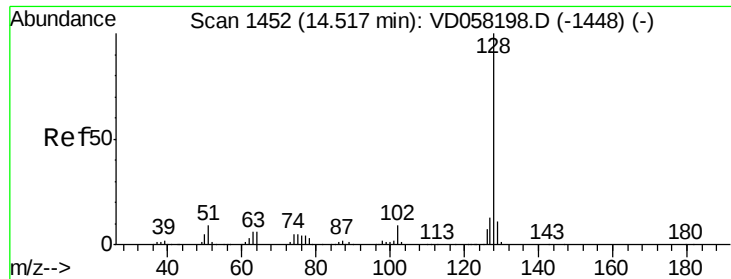
91 100

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: 1.096 ug/l

RT: 14.53 min Scan# 1453

Delta R.T. 0.01 min

Lab File: VD058263.D

Acq: 21 Jun 2018 20:18

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-10RE

Tot Ion:128 Resp: 1470

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#

