

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058321.D
 Acq On : 23 Jun 2018 4:44
 Operator : VA/AP
 Sample : J3622-04RE
 Misc : 4.59g/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-ARE

Quant Time: Jun 25 00:54:34 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	47813	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.70	114	92598	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.70	117	92779	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	51688	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	64587	133.74	ug/l	0.02
Spiked Amount			Recovery	=	267.48%	
35) Dibromofluoromethane	5.57	113	47530	63.07	ug/l	0.02
Spiked Amount			Recovery	=	126.14%	
50) Toluene-d8	8.72	98	84924	46.58	ug/l	0.00
Spiked Amount			Recovery	=	93.16%	
62) 4-Bromofluorobenzene	11.94	95	49129	65.96	ug/l	0.00
Spiked Amount			Recovery	=	131.92%	

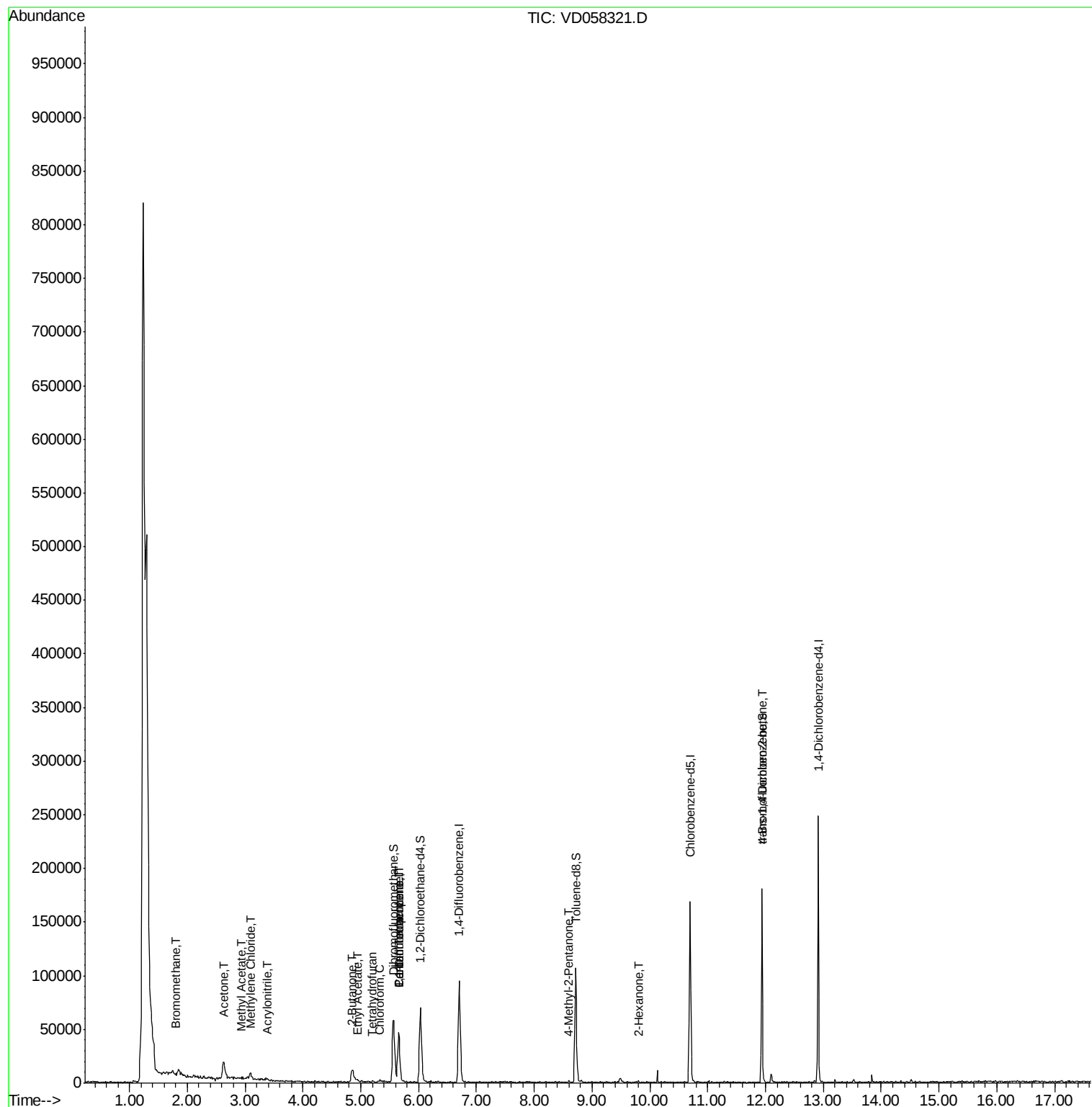
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.80	94	441	4.217	ug/l #	3
15) Acrylonitrile	3.39	53	389	9.210	ug/l #	14
16) Acetone	2.63	43	37941	574.457	ug/l	97
18) Methyl Acetate	2.93	43	2213	15.711	ug/l #	65
20) Methylene Chloride	3.08	84	2324	9.631	ug/l #	72
25) 2-Butanone	4.84	43	1125	7.815	ug/l #	60
29) Tetrahydrofuran	5.20	42	742	9.684	ug/l #	37
30) Chloroform	5.34	83	2044	2.367	ug/l	84
31) Cyclohexane	5.65	56	538	Below Cal	#	35
36) 1,1-Dichloropropene	5.66	75	4336	4.733	ug/l #	43
37) Ethyl Acetate	4.94	43	698	1.337	ug/l #	72
38) Carbon Tetrachloride	5.65	117	4056	4.456	ug/l #	11
51) 4-Methyl-2-Pentanone	8.59	43	1417	3.122	ug/l #	41
59) 2-Hexanone	9.80	43	496	1.512	ug/l #	61
81) trans-1,4-Dichloro-2-buten	11.94	75	23189	125.989	ug/l #	1
82) 4-Chlorotoluene	12.32	91	611	Below Cal	#	45

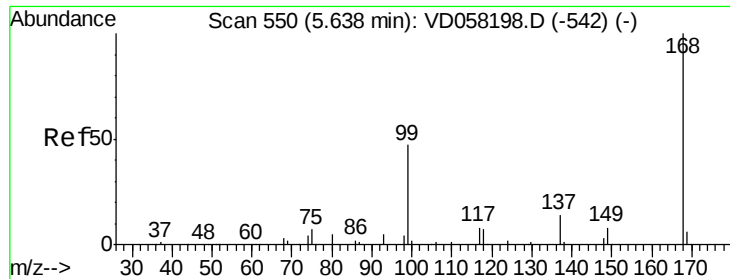
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

Instrument :

MSVOA_D

ClientSampleId :

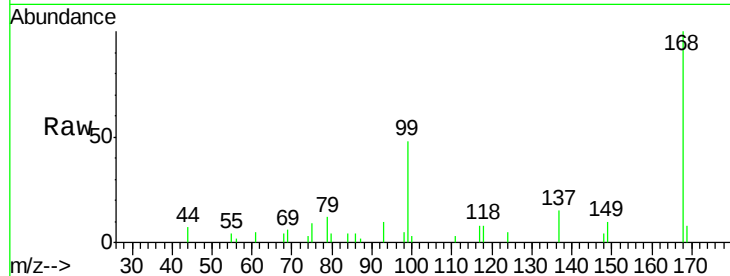
SP-ARE

Tot Ion:168 Resp: 47813

Ion Ratio Lower Upper

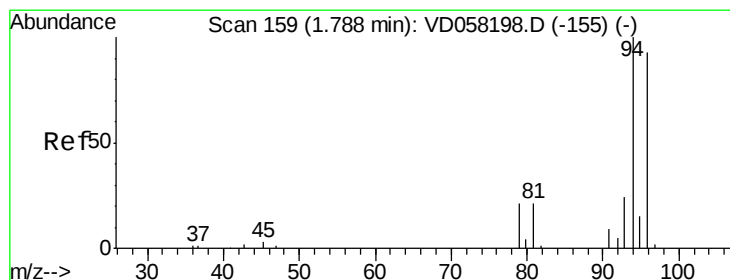
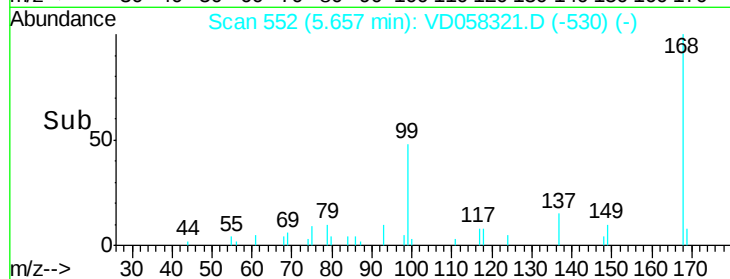
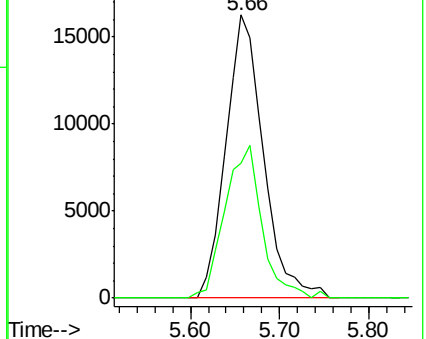
168 100

99 47.7 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: 4.217 ug/l

RT: 1.80 min Scan# 160

Delta R.T. 0.01 min

Lab File: VD058321.D

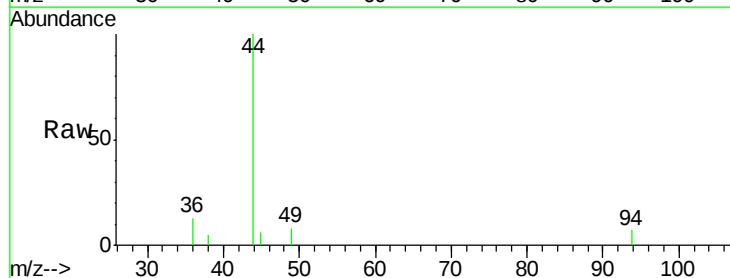
Acq: 23 Jun 2018 4:44

Tgt Ion: 94 Resp: 441

Ion Ratio Lower Upper

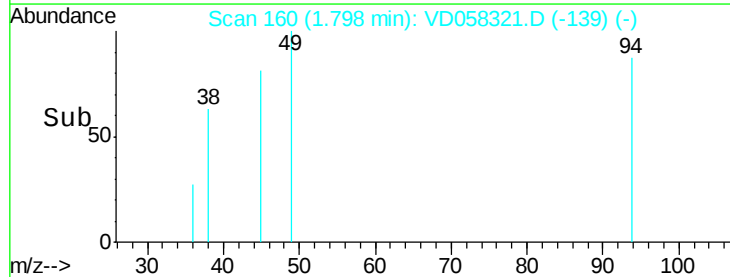
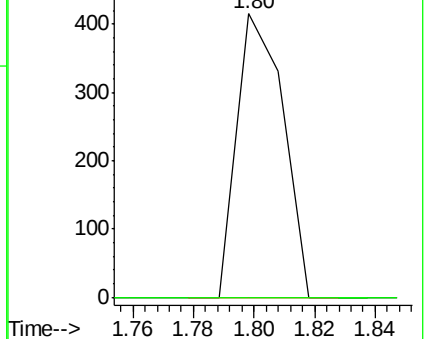
94 100

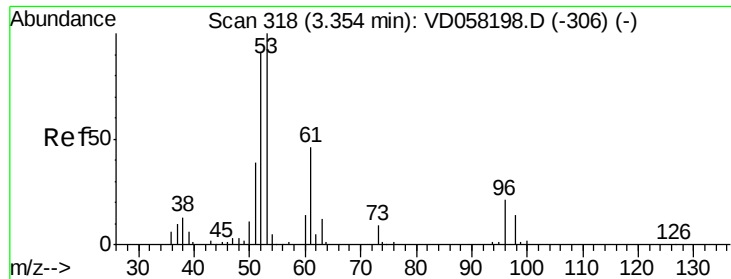
96 0.0 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#15

Acrylonitrile

Concen: 9.210 ug/l

RT: 3.39 min Scan# 322

Delta R.T. 0.04 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

Instrument :

MSVOA_D

ClientSampleId :

SP-ARE

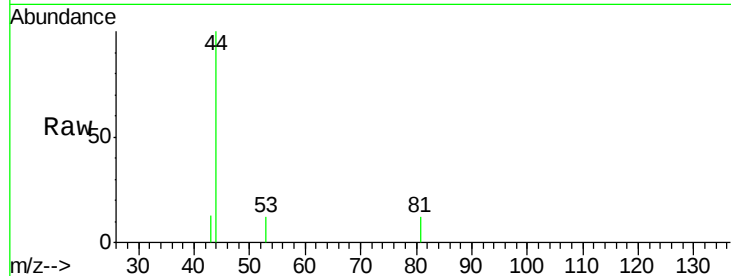
Tot Ion: 53 Resp: 389

Ion Ratio Lower Upper

53 100

52 0.0 72.6 108.8#

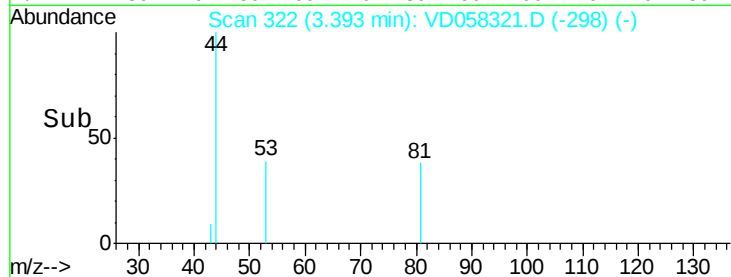
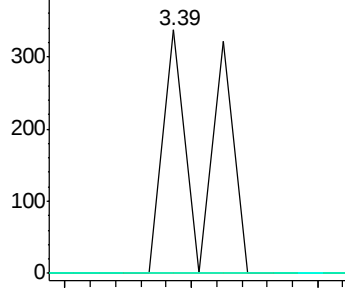
51 0.0 32.2 48.4#



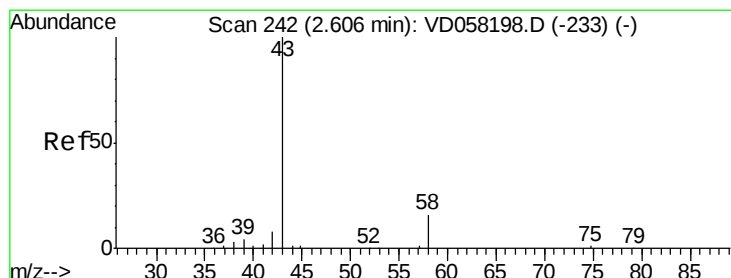
Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



Time-->



#16

Acetone

Concen: 574.457 ug/l

RT: 2.63 min Scan# 245

Delta R.T. 0.03 min

Lab File: VD058321.D

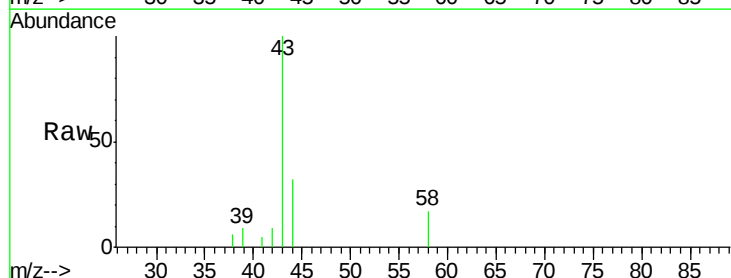
Acq: 23 Jun 2018 4:44

Tgt Ion: 43 Resp: 37941

Ion Ratio Lower Upper

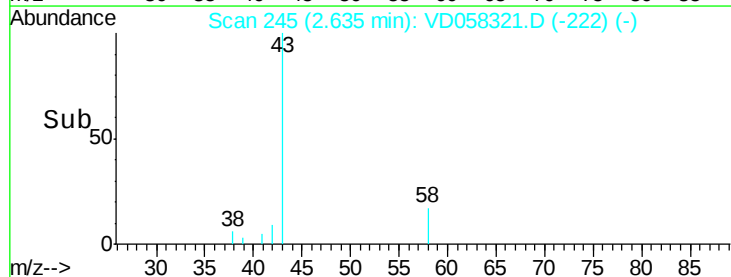
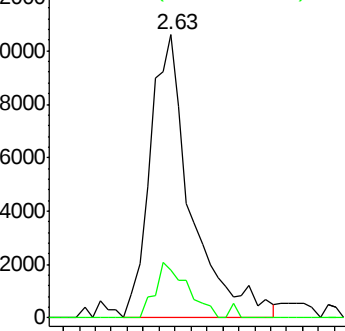
43 100

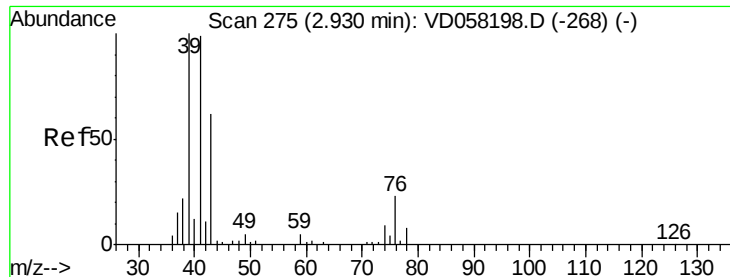
58 17.0 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

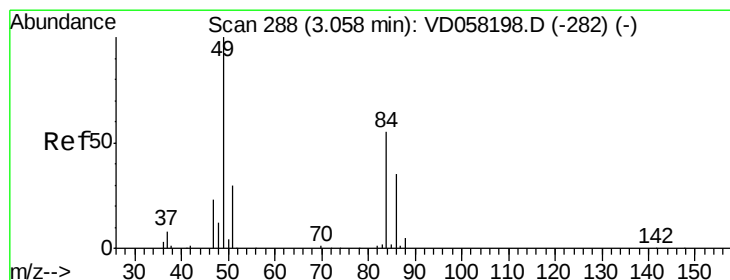
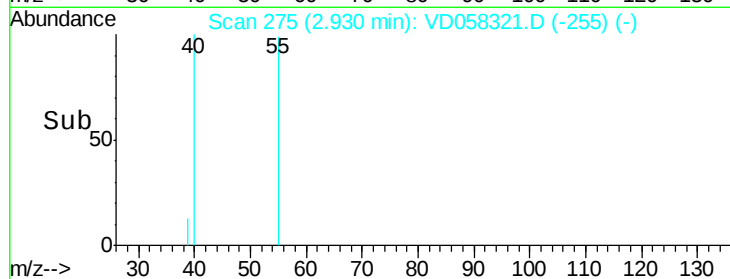
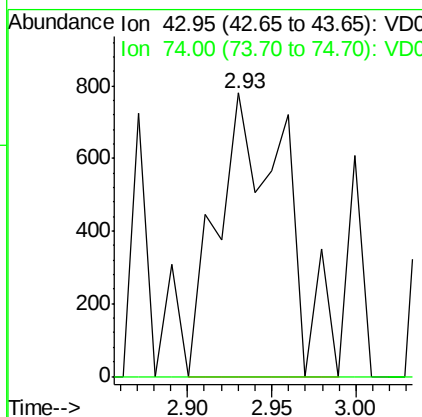
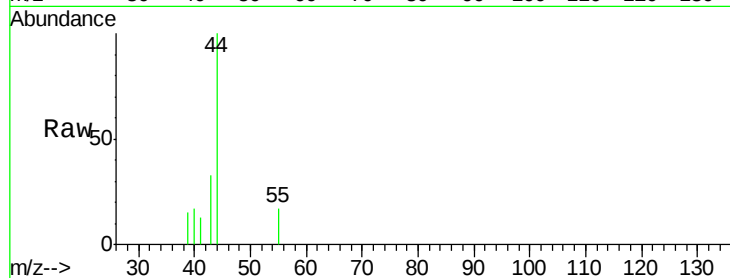




#18
Methyl Acetate
Concen: 15.711 ug/l
RT: 2.93 min Scan# 275
Delta R.T. -0.00 min
Lab File: VD058321.D
Acq: 23 Jun 2018 4:44

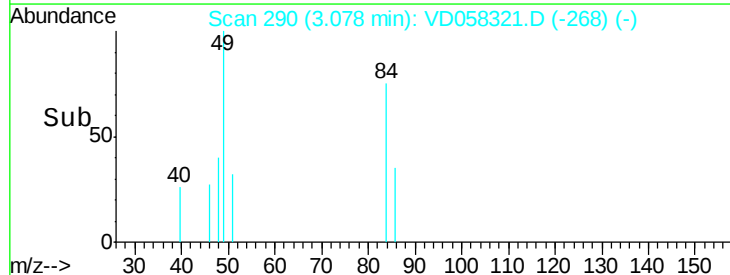
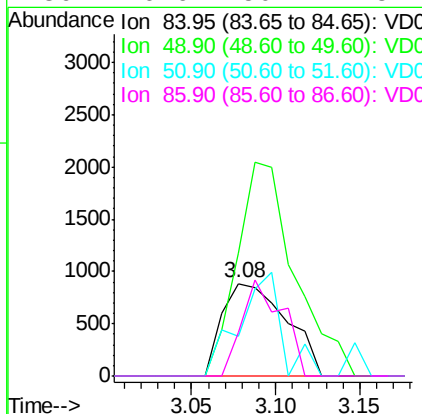
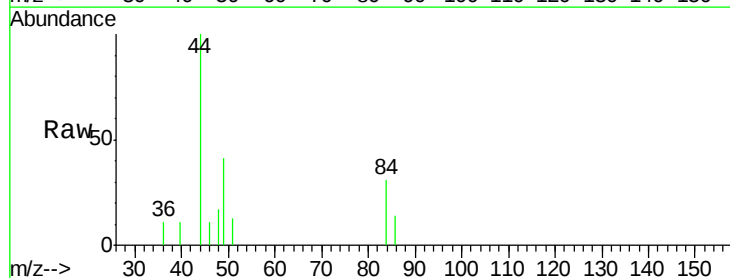
Instrument :
MSVOA_D
ClientSampleID :
SP-ARE

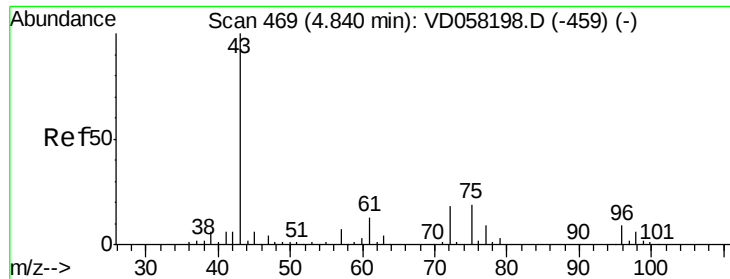
Tot Ion: 43 Resp: 2213
Ion Ratio Lower Upper
43 100
74 0.0 11.7 17.5#



#20
Methylene Chloride
Concen: 9.631 ug/l
RT: 3.08 min Scan# 290
Delta R.T. 0.02 min
Lab File: VD058321.D
Acq: 23 Jun 2018 4:44

Tgt Ion: 84 Resp: 2324
Ion Ratio Lower Upper
84 100
49 132.7 145.0 217.6#
51 42.9 42.9 64.3#
86 46.6 50.1 75.1#





#25

2-Butanone

Concen: 7.815 ug/l

RT: 4.84 min Scan# 469

Delta R.T. -0.00 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

Instrument :

MSVOA_D

ClientSampled :

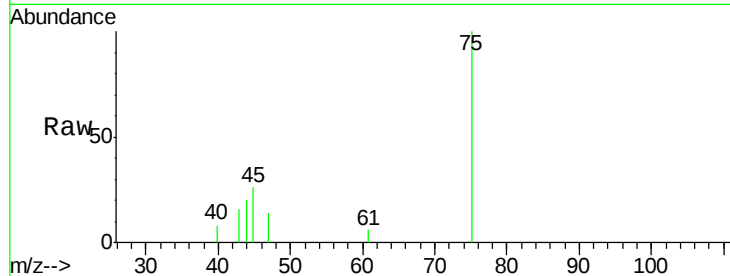
SP-ARE

Tot Ion: 43 Resp: 1125

Ion Ratio Lower Upper

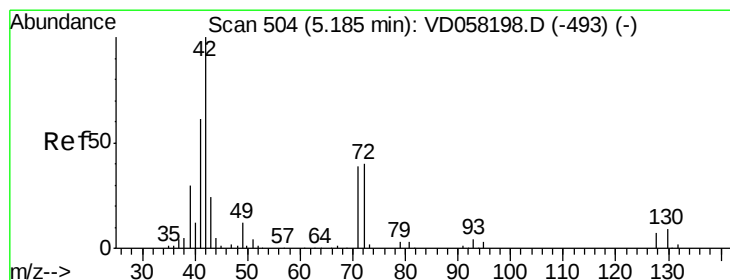
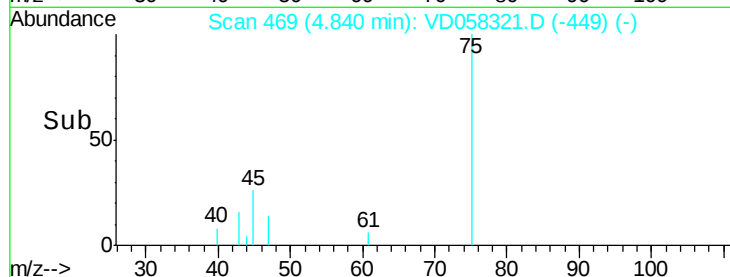
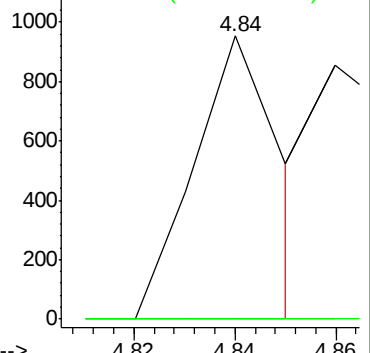
43 100

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



#29

Tetrahydrofuran

Concen: 9.684 ug/l

RT: 5.20 min Scan# 506

Delta R.T. 0.02 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

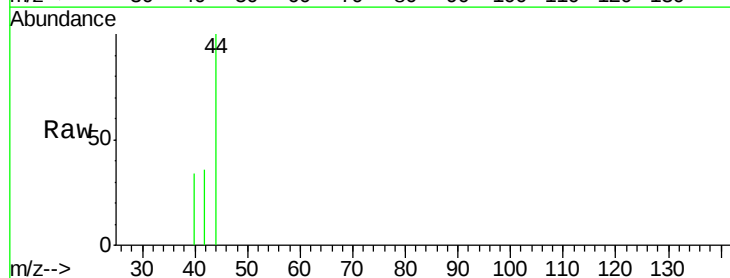
Tgt Ion: 42 Resp: 742

Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.2#

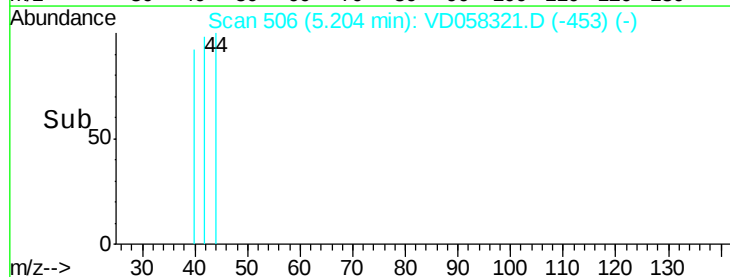
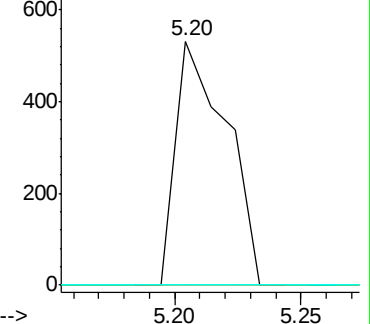
71 0.0 30.1 45.1#

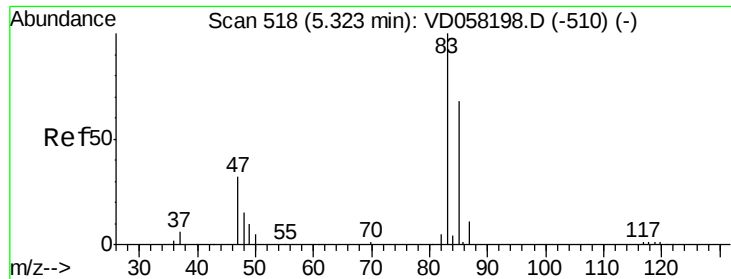


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#30

Chloroform

Concen: 2.367 ug/l

RT: 5.34 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

Instrument :

MSVOA_D

ClientSampleId :

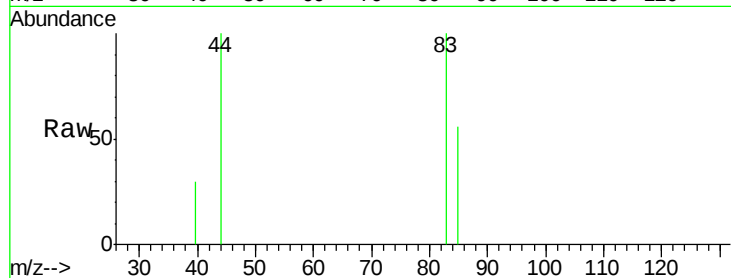
SP-ARE

Tot Ion: 83 Resp: 2044

Ion Ratio Lower Upper

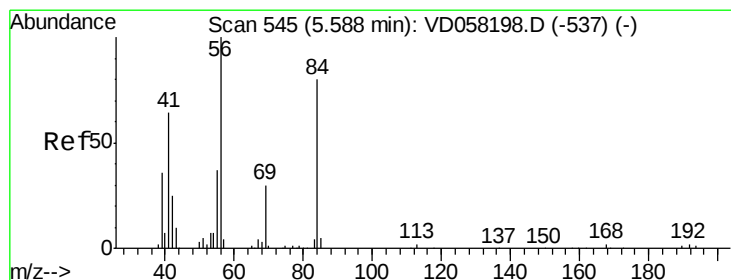
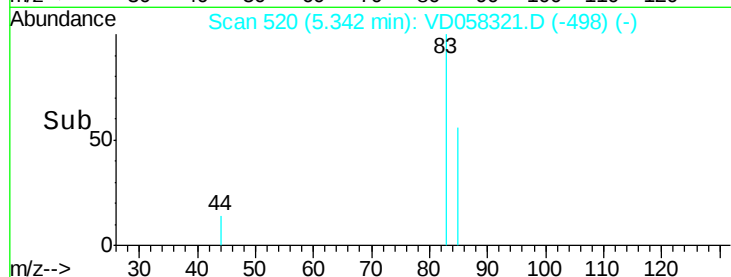
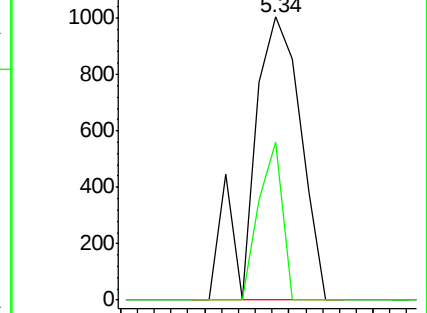
83 100

85 55.6 54.8 82.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 5.65 min Scan# 551

Delta R.T. 0.06 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

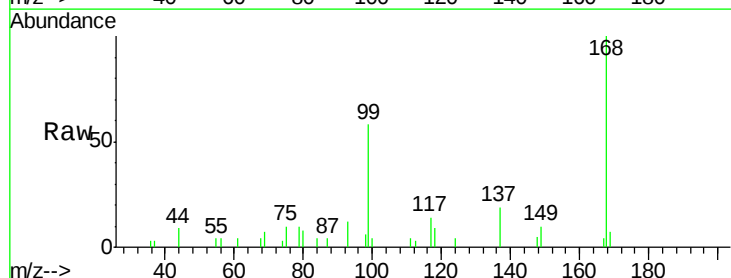
Tgt Ion: 56 Resp: 538

Ion Ratio Lower Upper

56 100

69 156.1 23.6 35.4#

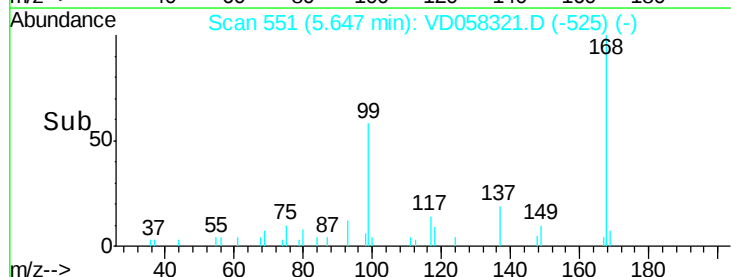
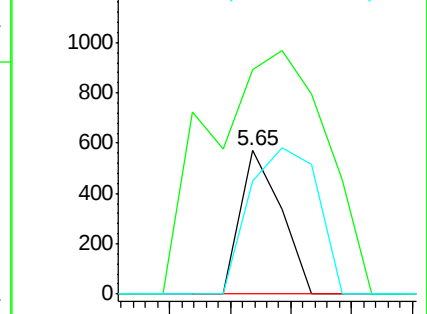
84 79.1 65.2 97.8

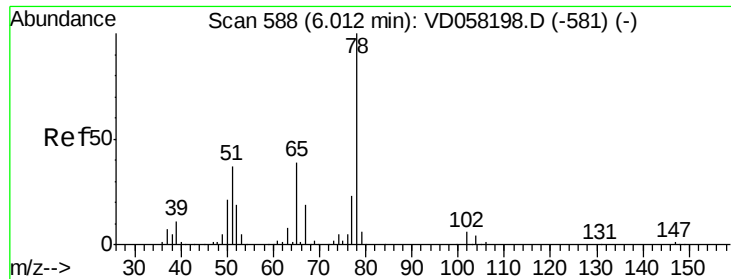


Abundance Ion 55.95 (55.65 to 56.65): VDC

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: 6.03 min Scan# 590

Delta R.T. 0.02 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

Instrument :

MSVOA_D

ClientSampled :

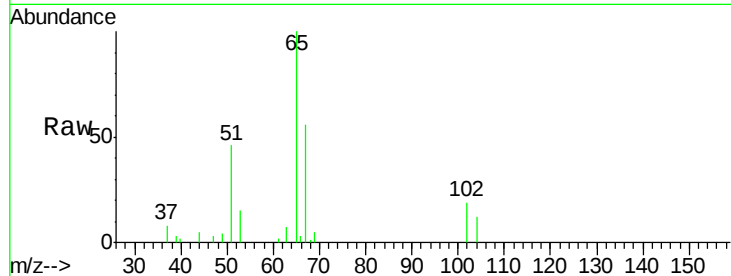
SP-ARE

Tot Ion: 65 Resp: 64587

Ion Ratio Lower Upper

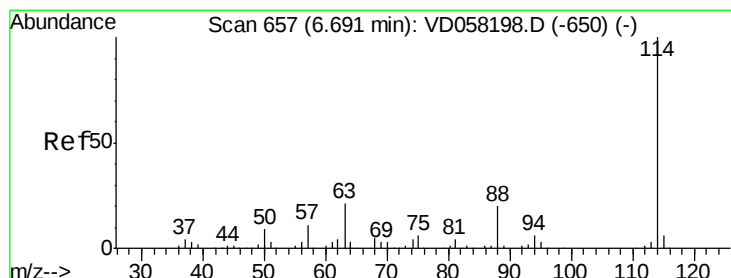
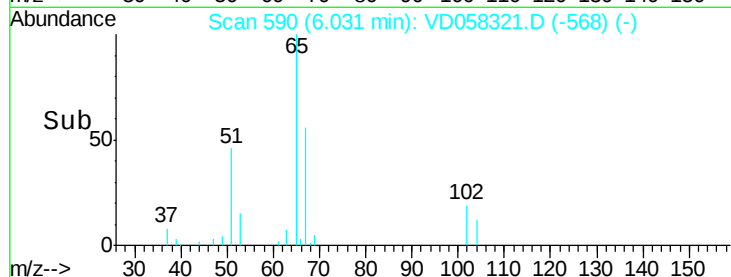
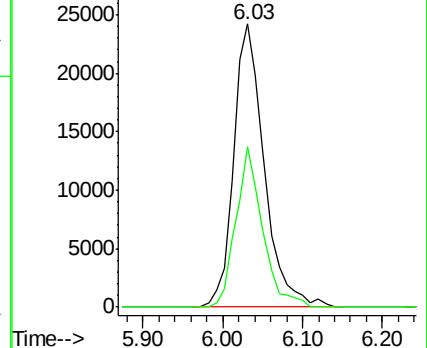
65 100

67 56.5 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: 6.70 min Scan# 658

Delta R.T. 0.01 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

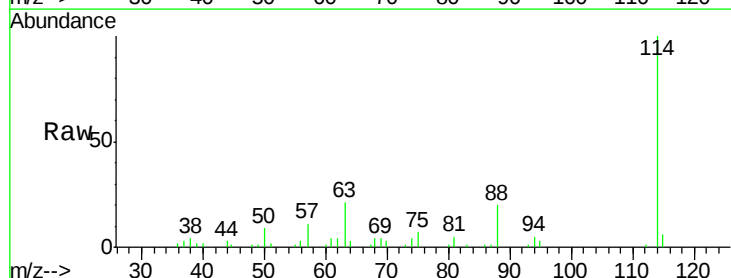
Tgt Ion: 114 Resp: 92598

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.6

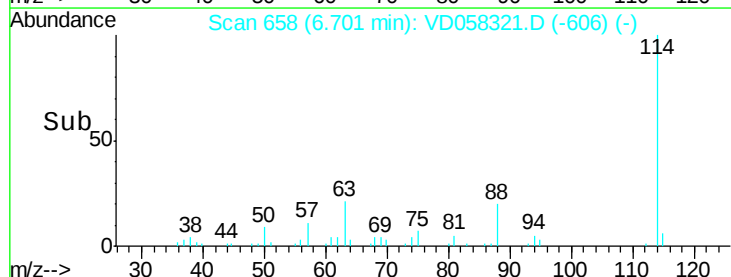
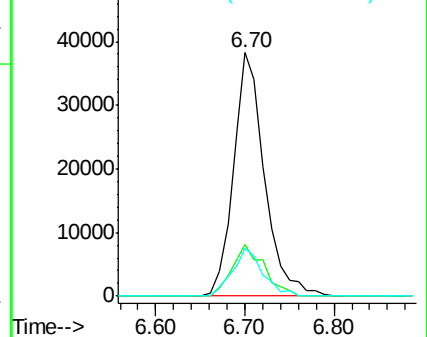
88 19.8 0.0 40.6

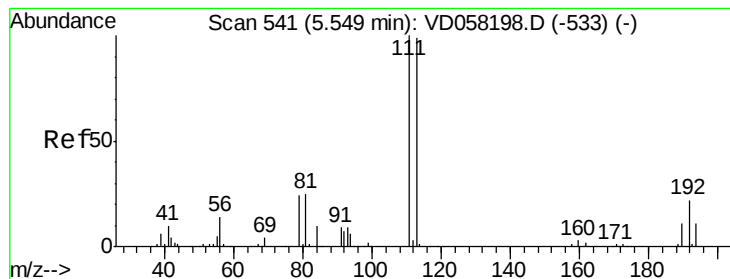


Abundance Ion 114.00 (113.70 to 114.70): V

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: 5.57 min Scan# 543

Delta R.T. 0.02 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

Instrument :

MSVOA_D

ClientSampleId :

SP-ARE

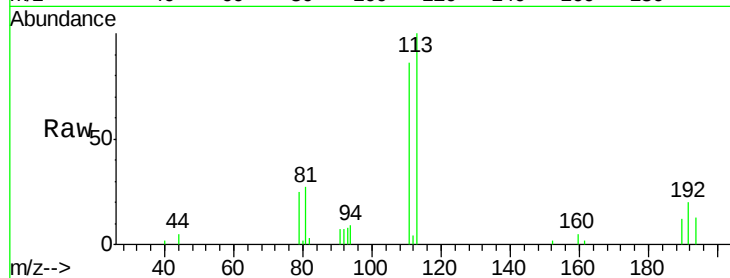
Tot Ion:113 Resp: 47530

Ion Ratio Lower Upper

113 100

111 86.0 80.6 121.0

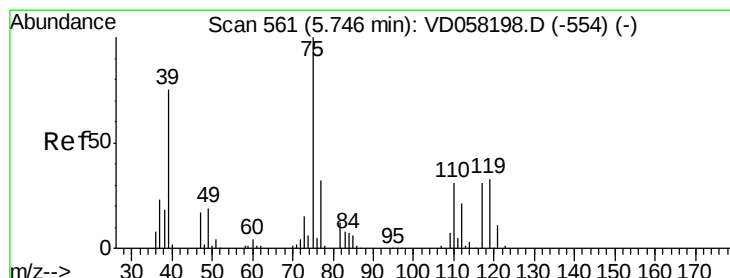
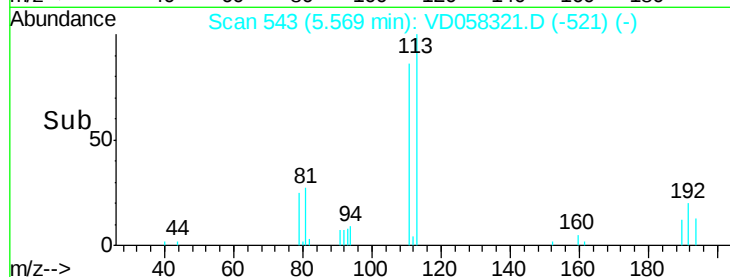
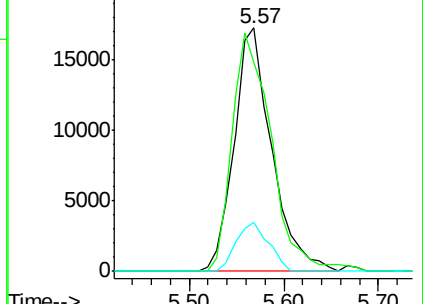
192 20.4 17.8 26.6



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: 4.733 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.09 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

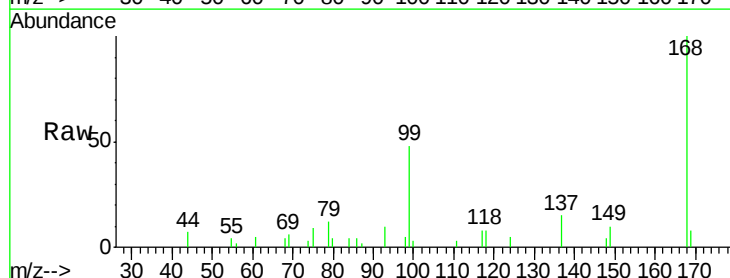
Tgt Ion: 75 Resp: 4336

Ion Ratio Lower Upper

75 100

110 0.0 15.4 46.4#

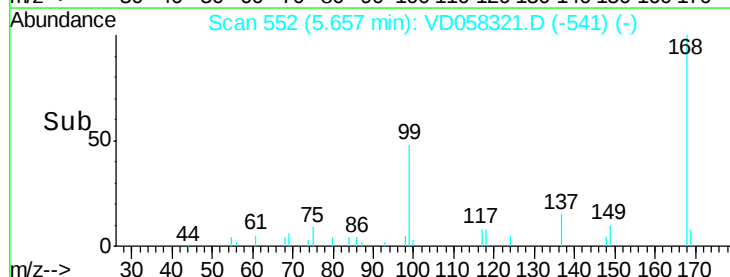
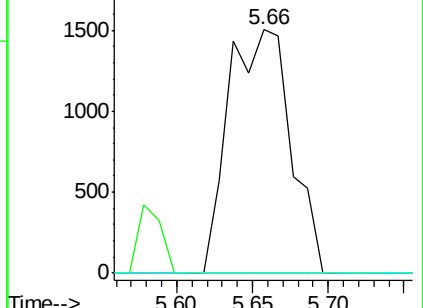
77 0.0 25.4 38.2#

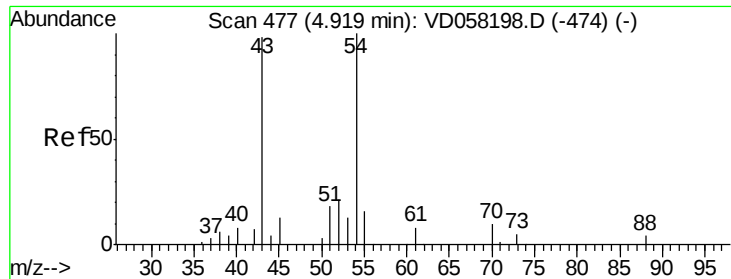


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 1.337 ug/l

RT: 4.94 min Scan# 479

Delta R.T. 0.02 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

Instrument :

MSVOA_D

ClientSampleID :

SP-ARE

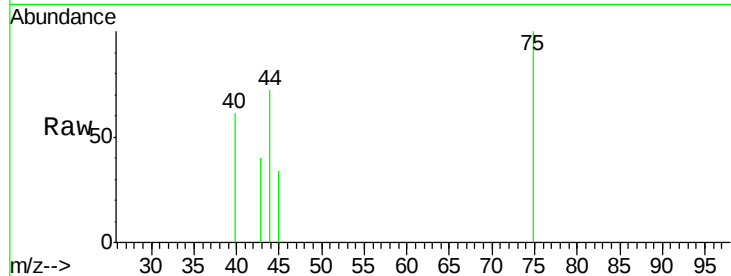
Tot Ion: 43 Resp: 698

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

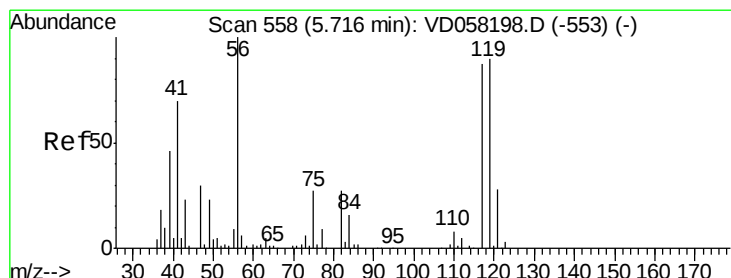
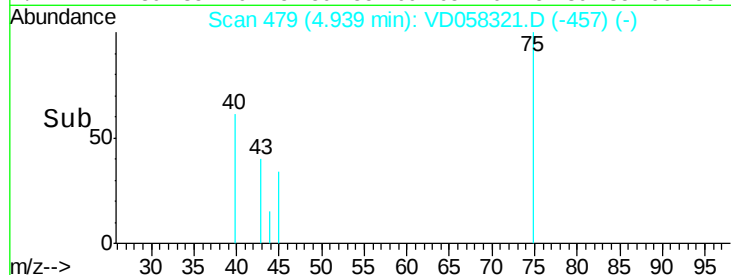
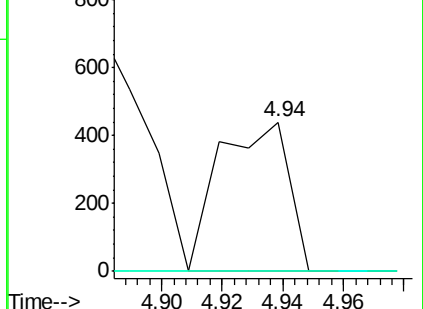
70 0.0 5.7 8.5#



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



#38

Carbon Tetrachloride

Concen: 4.456 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.07 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

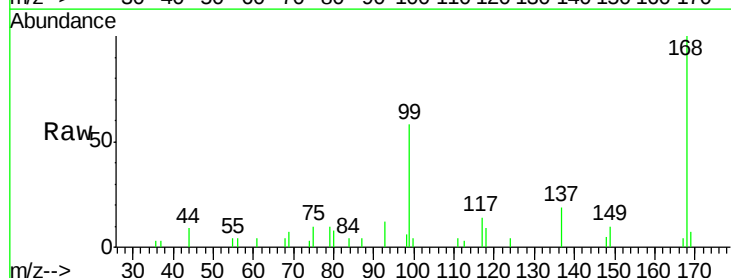
Tgt Ion: 117 Resp: 4056

Ion Ratio Lower Upper

117 100

119 0.0 78.8 118.2#

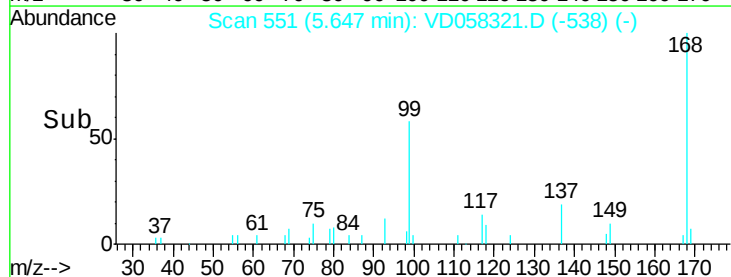
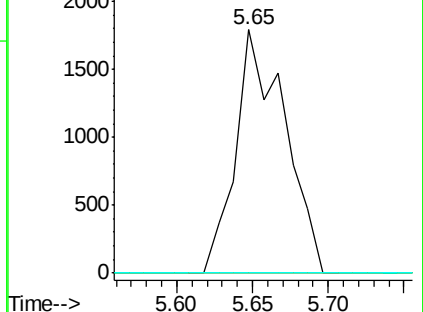
121 0.0 25.0 37.6#

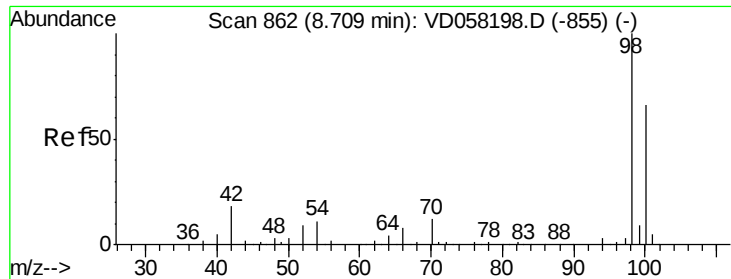


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

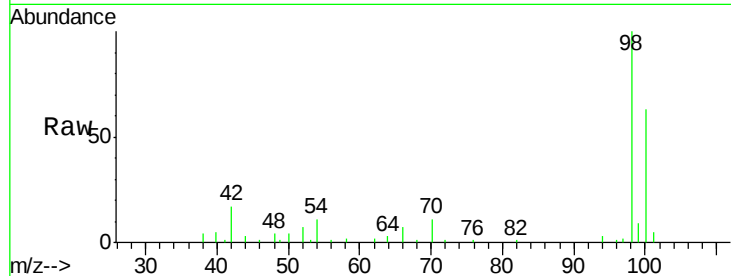




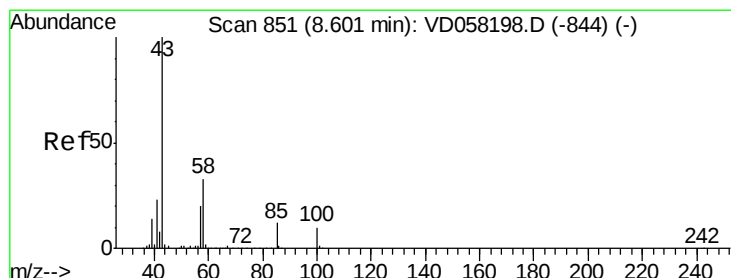
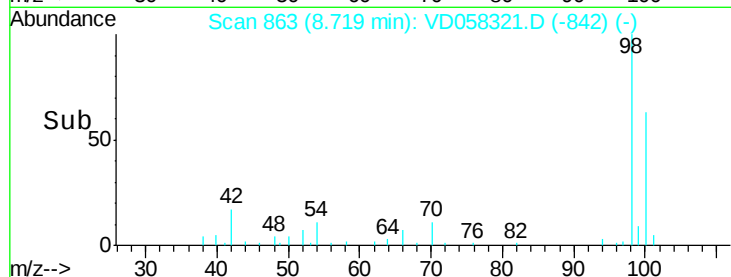
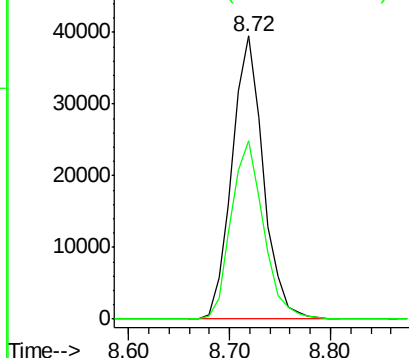
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.72 min Scan# 863
Delta R.T. 0.01 min
Lab File: VD058321.D
Acq: 23 Jun 2018 4:44

Instrument :
MSVOA_D
ClientSampleId :
SP-ARE

Tot Ion: 98 Resp: 84924
Ion Ratio Lower Upper
98 100
100 62.9 53.6 80.4

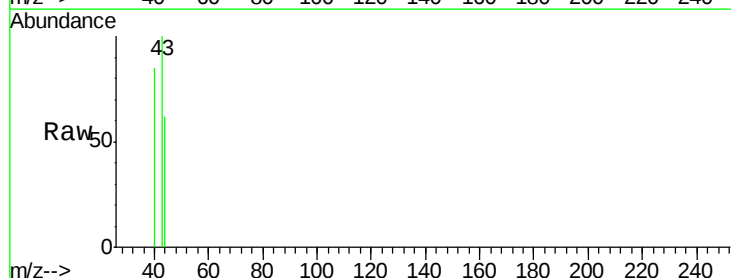


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

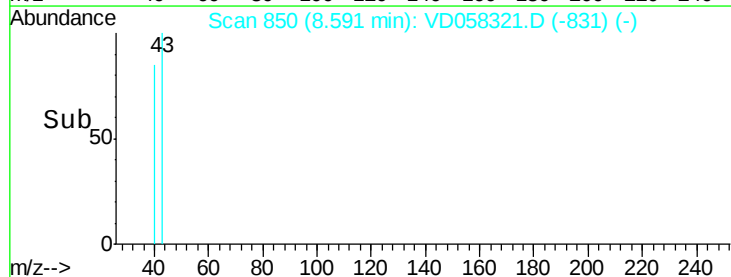
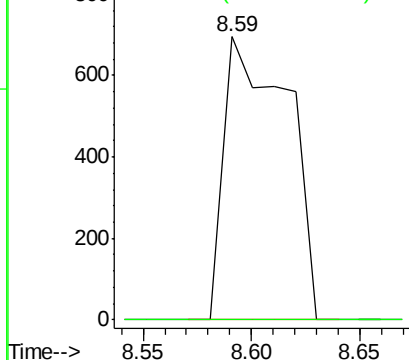


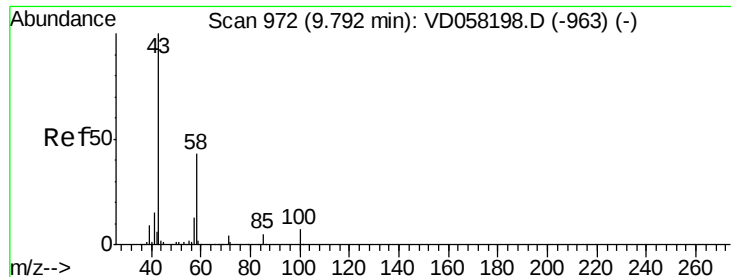
#51
4-Methyl-2-Pentanone
Concen: 3.122 ug/l
RT: 8.59 min Scan# 850
Delta R.T. -0.01 min
Lab File: VD058321.D
Acq: 23 Jun 2018 4:44

Tgt Ion: 43 Resp: 1417
Ion Ratio Lower Upper
43 100
58 0.0 26.7 40.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

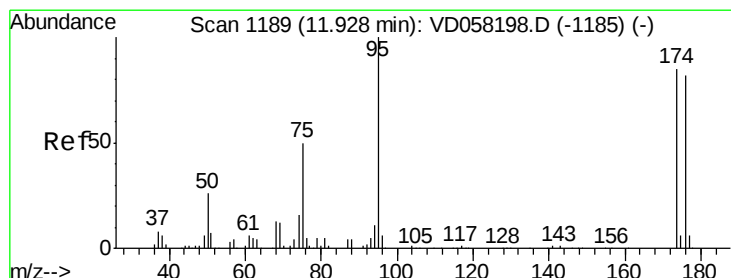
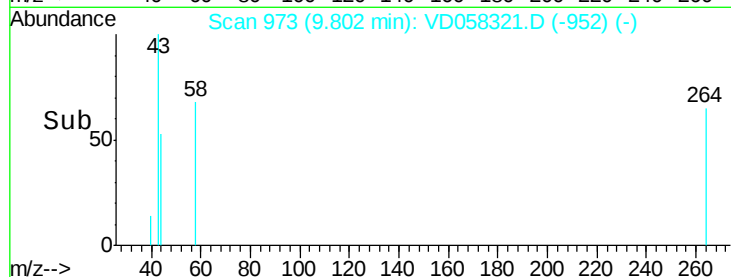
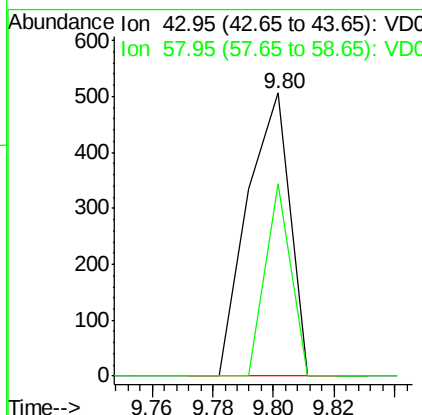
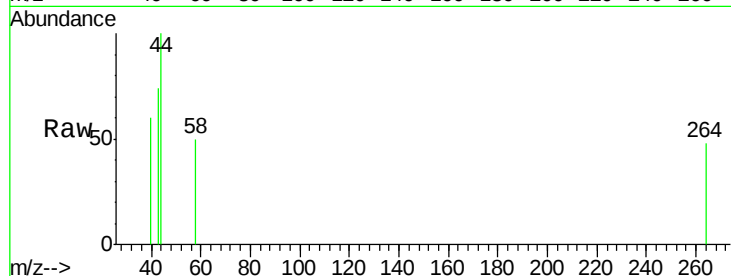




#59
2-Hexanone
Concen: 1.512 ug/l
RT: 9.80 min Scan# 973
Delta R.T. 0.01 min
Lab File: VD058321.D
Acq: 23 Jun 2018 4:44

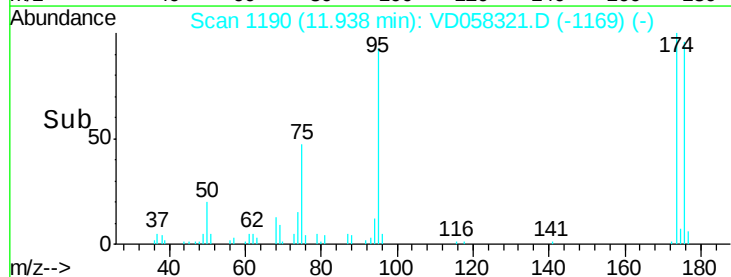
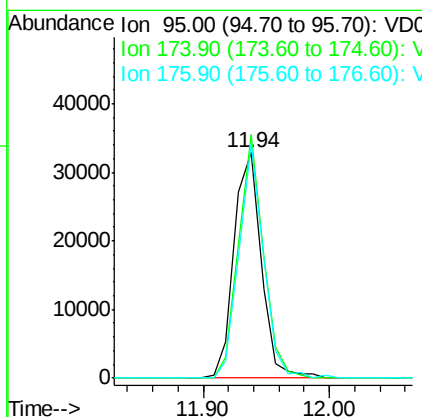
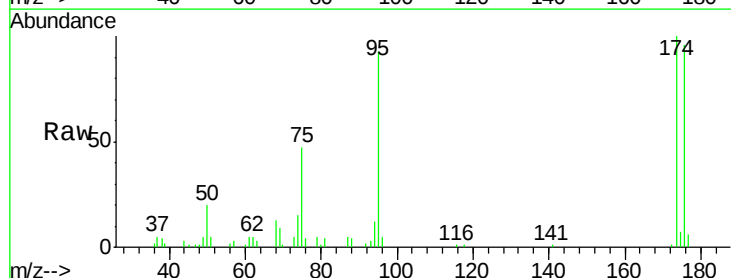
Instrument :
MSVOA_D
ClientSampleId :
SP-ARE

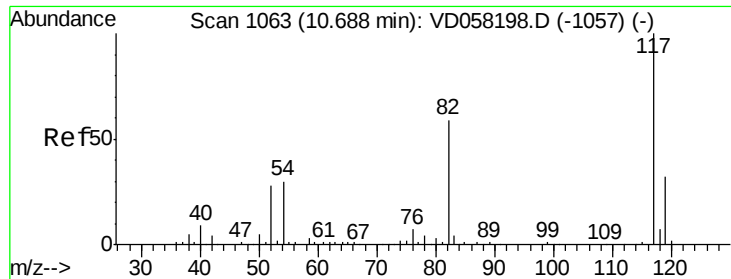
Tot Ion: 43 Resp: 496
Ion Ratio Lower Upper
43 100
58 68.2 21.7 65.1#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.94 min Scan# 1190
Delta R.T. 0.01 min
Lab File: VD058321.D
Acq: 23 Jun 2018 4:44

Tgt Ion: 95 Resp: 49129
Ion Ratio Lower Upper
95 100
174 107.9 0.0 170.2
176 103.8 0.0 164.6

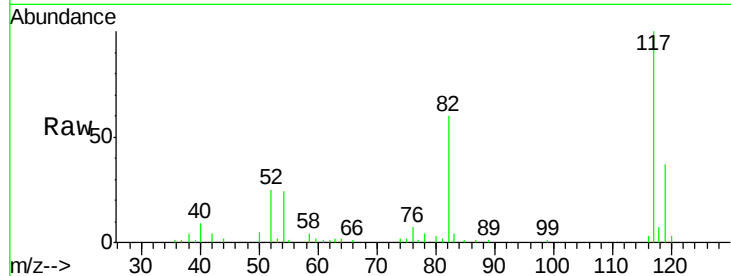




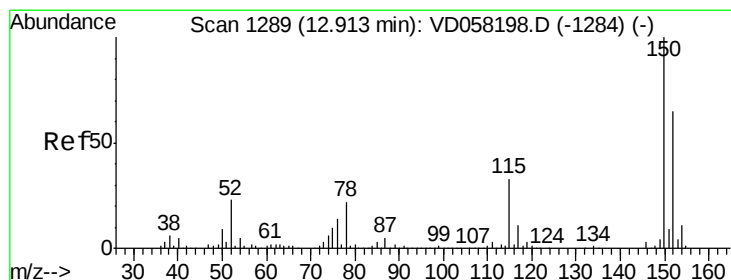
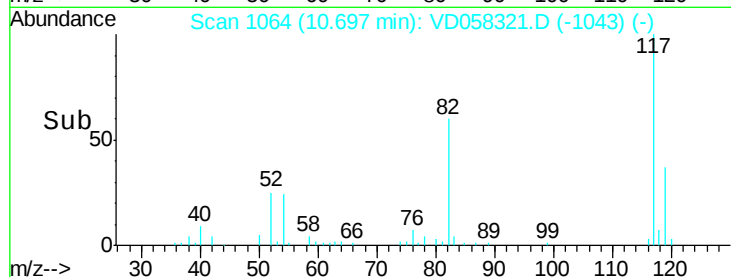
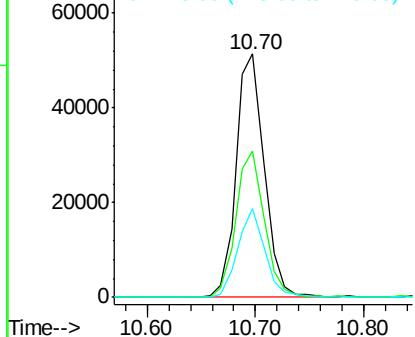
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058321.D
Acq: 23 Jun 2018 4:44

Instrument :
MSVOA_D
ClientSampleId :
SP-ARE

Tot Ion:117 Resp: 92779
Ion Ratio Lower Upper
117 100
82 60.1 47.0 70.6
119 36.6 25.3 37.9

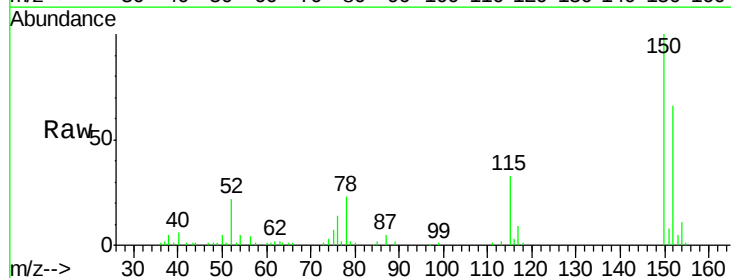


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

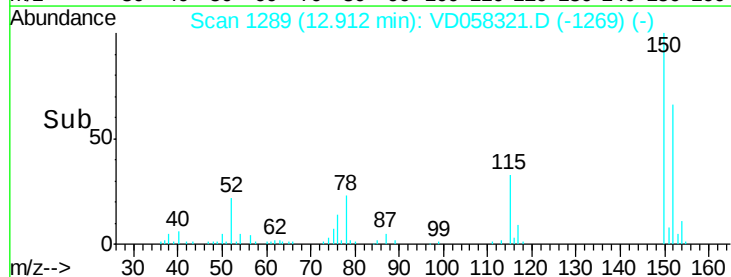
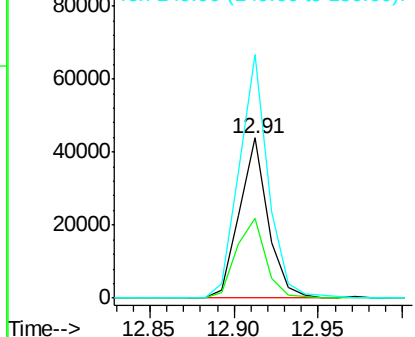


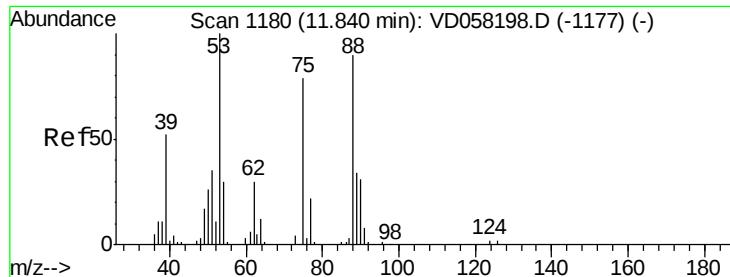
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. -0.00 min
Lab File: VD058321.D
Acq: 23 Jun 2018 4:44

Tgt Ion:152 Resp: 51688
Ion Ratio Lower Upper
152 100
115 49.9 25.1 75.3
150 152.3 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: 125.989 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058321.D

Acq: 23 Jun 2018 4:44

Instrument :

MSVOA_D

ClientSampleId :

SP-ARE

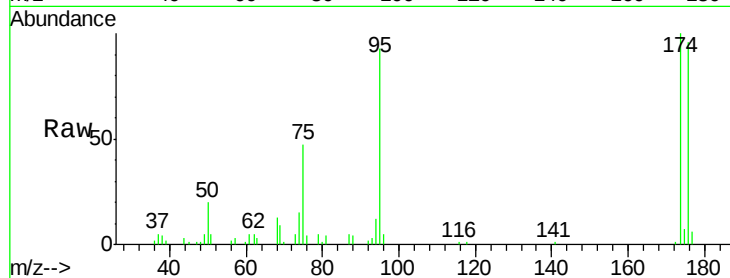
Tot Ion: 75 Resp: 23189

Ion Ratio Lower Upper

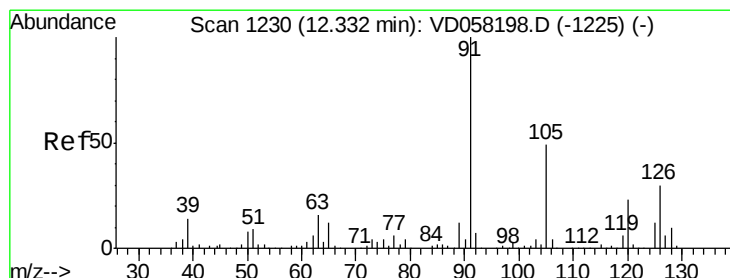
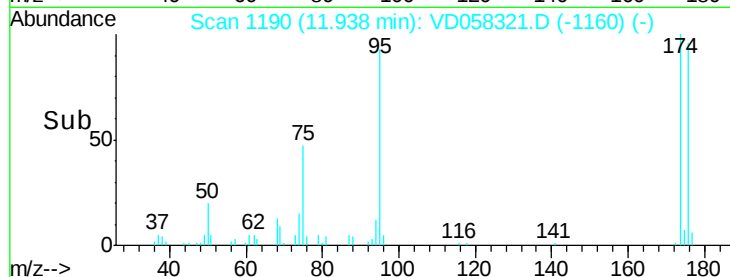
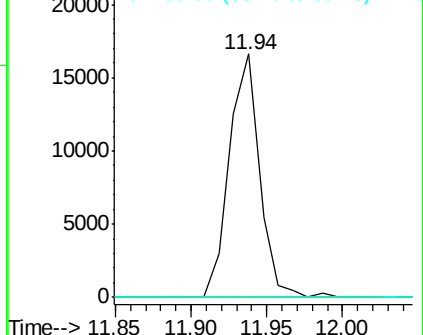
75 100

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: VD058321.D

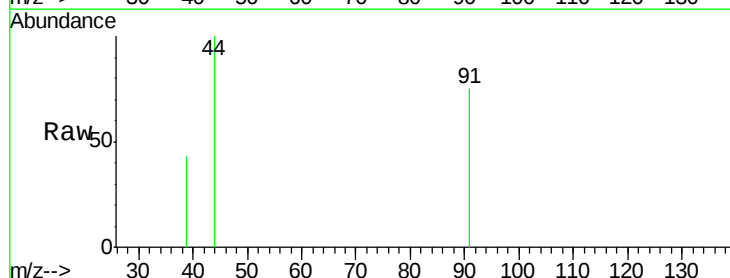
Acq: 23 Jun 2018 4:44

Tgt Ion: 91 Resp: 611

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

