

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050919\
 Data File : VD062199.D
 Acq On : 9 May 2019 20:23
 Operator : FY/SY
 Sample : K2717-06
 Misc : 3.23g/5mL/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS002-0002-01

Quant Time: May 10 04:22:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	3631	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	11612	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	12718	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	4932	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	22528	667.63	ug/l	0.01
Spiked Amount			Recovery	= 1335.26%		
35) Dibromofluoromethane	6.92	113	13168	136.67	ug/l	0.02
Spiked Amount			Recovery	= 273.34%		
50) Toluene-d8	10.40	98	11424	49.18	ug/l	0.00
Spiked Amount			Recovery	= 98.36%		
62) 4-Bromofluorobenzene	13.55	95	7205	77.24	ug/l	0.00
Spiked Amount			Recovery	= 154.48%		

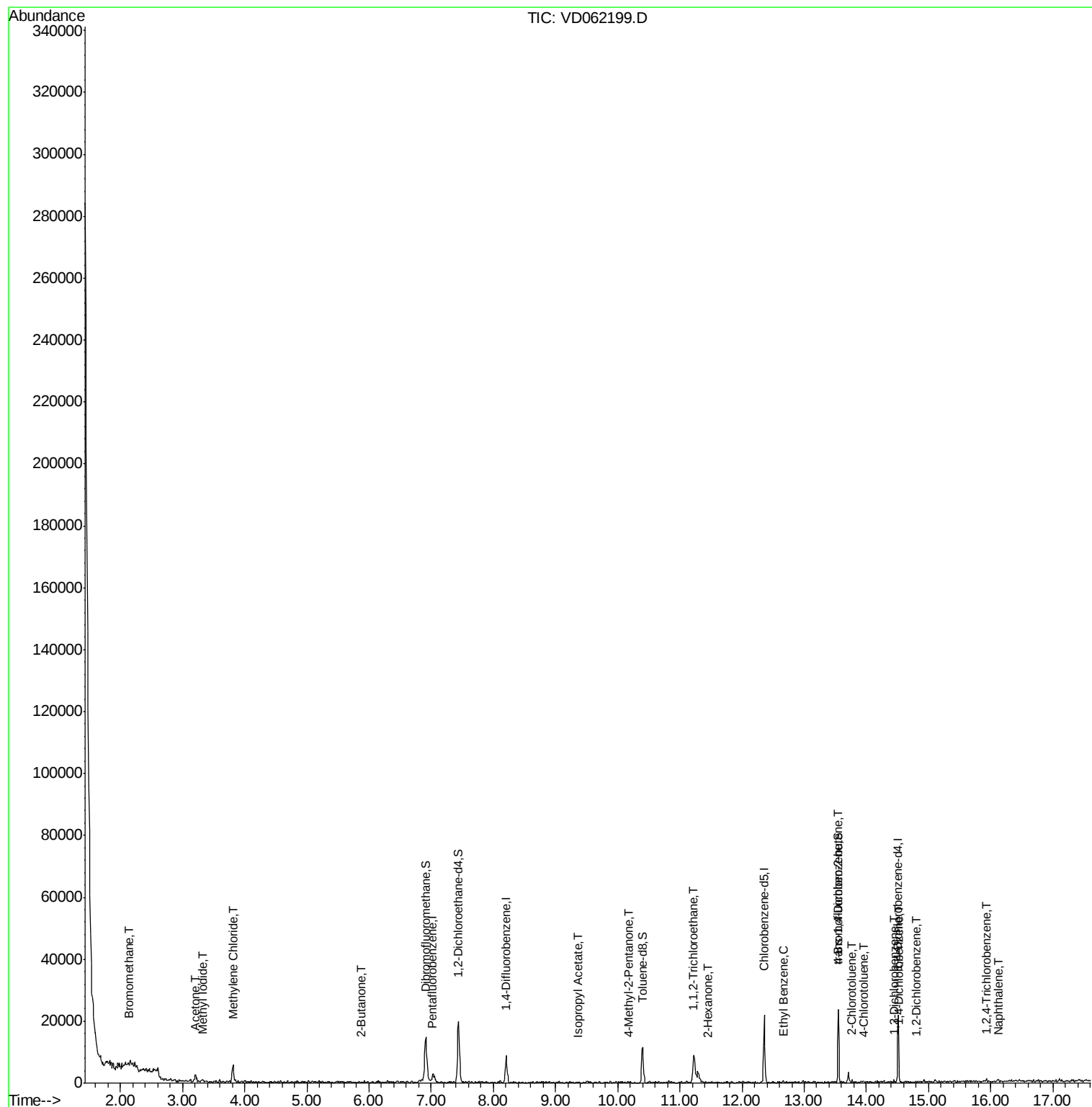
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	1343	232.414	ug/l #	12
10) Methyl Iodide	3.32	142	1408	25.686	ug/l #	37
16) Acetone	3.22	43	3987	563.427	ug/l #	50
20) Methylene Chloride	3.82	84	3001	101.569	ug/l #	88
25) 2-Butanone	5.87	43	273	35.369	ug/l #	56
43) Isopropyl Acetate	9.36	43	188	3.283	ug/l #	43
51) 4-Methyl-2-Pentanone	10.18	43	225	6.113	ug/l #	37
55) 1,1,2-Trichloroethane	11.22	97	181	3.657	ug/l #	16
59) 2-Hexanone	11.45	43	190	7.003	ug/l #	27
67) Ethyl Benzene	12.66	91	492	1.241	ug/l #	44
79) 2-Chlorotoluene	13.76	91	229	1.134	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.55	75	2543	153.686	ug/l #	16
82) 4-Chlorotoluene	13.94	91	543	2.285	ug/l #	37
87) 1,3-Dichlorobenzene	14.44	146	282	1.865	ug/l #	25
88) 1,4-Dichlorobenzene	14.53	146	300	2.020	ug/l #	58
91) 1,2-Dichlorobenzene	14.80	146	187	1.502	ug/l #	25
93) 1,2,4-Trichlorobenzene	15.94	180	195	2.152	ug/l #	11
95) Naphthalene	16.12	128	666	5.264	ug/l #	70

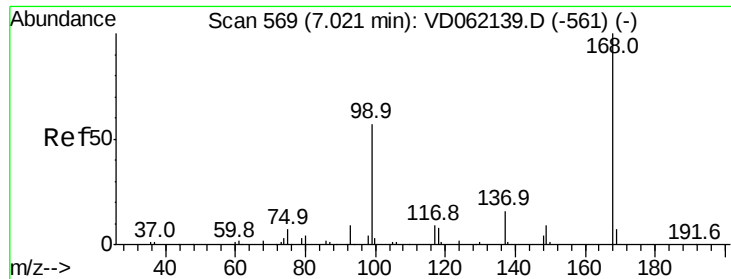
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.00 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

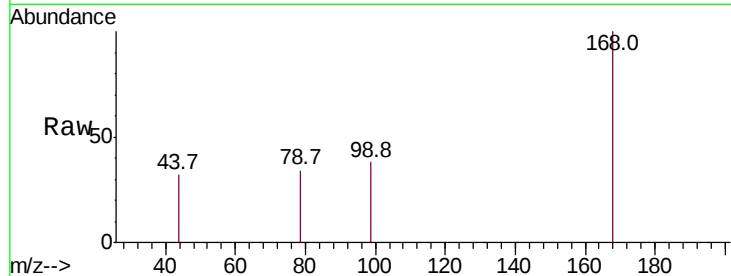
P026-SS002-0002-01

Tot Ion:168 Resp: 3631

Ion Ratio Lower Upper

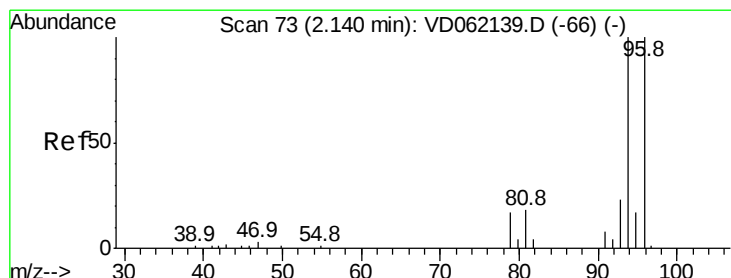
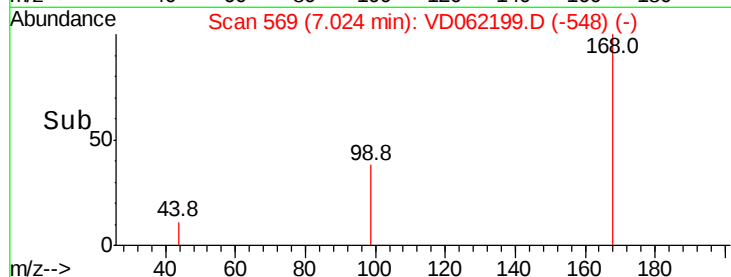
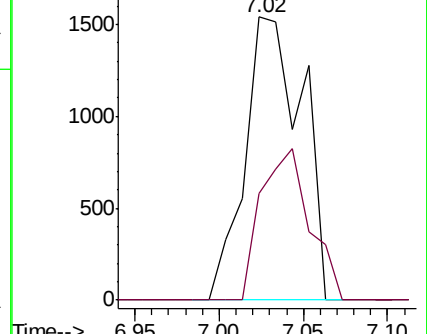
168 100

99 37.7 46.5 69.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 232.414 ug/l

RT: 2.14 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

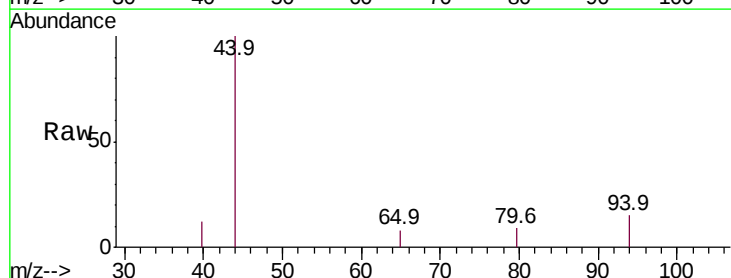
Tgt Ion: 94 Resp: 1343

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

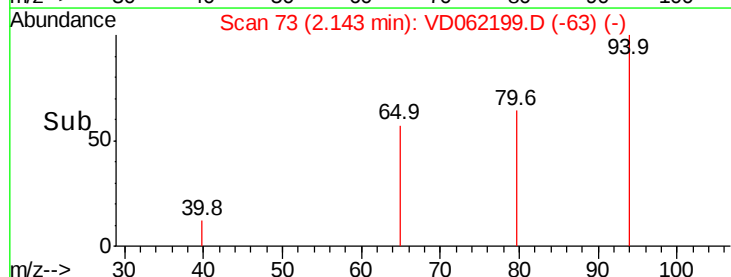
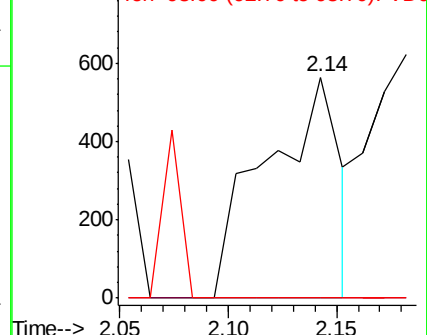
93 0.0 18.5 27.7#

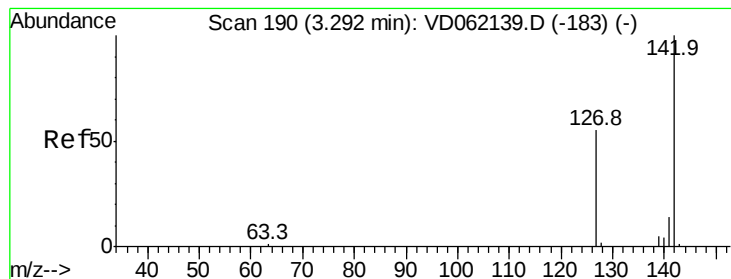


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#10

Methyl Iodide

Concen: 25.686 ug/l

RT: 3.32 min Scan# 193

Delta R.T. 0.03 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

P026-SS002-0002-01

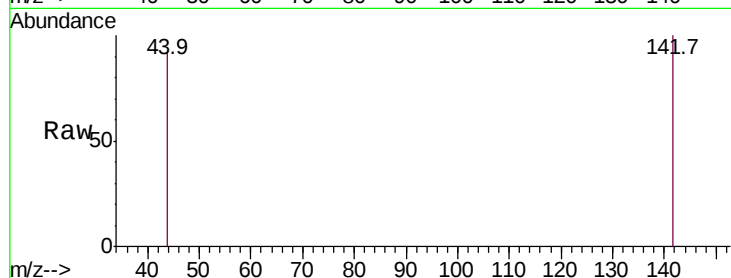
Tot Ion:142 Resp: 1408

Ion Ratio Lower Upper

142 100

127 0.0 38.8 58.2#

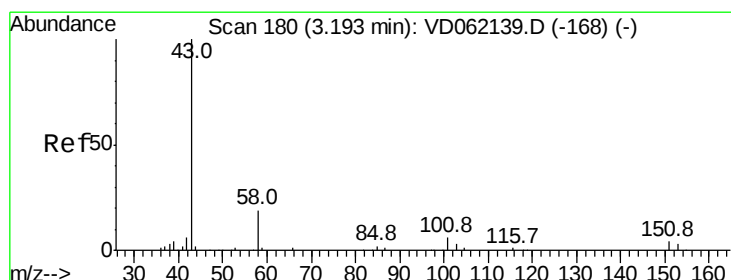
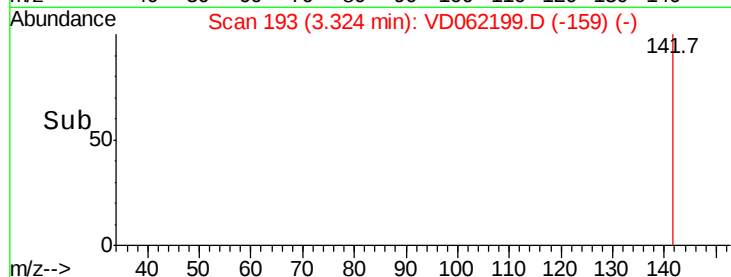
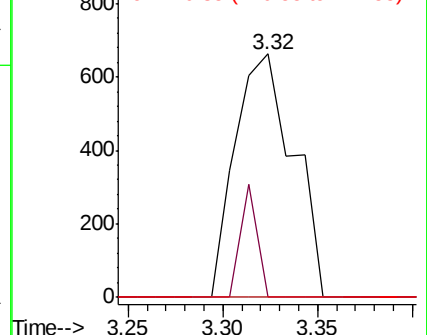
141 0.0 11.4 17.0#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



#16

Acetone

Concen: 563.427 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.02 min

Lab File: VD062199.D

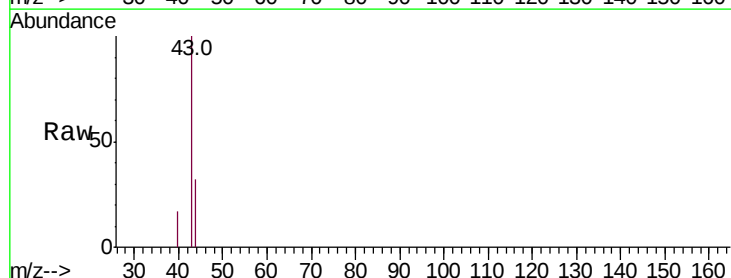
Acq: 9 May 2019 20:23

Tgt Ion: 43 Resp: 3987

Ion Ratio Lower Upper

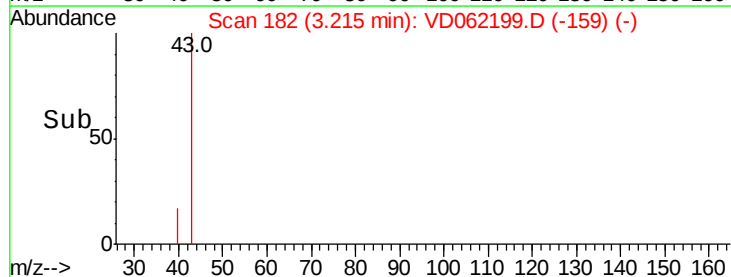
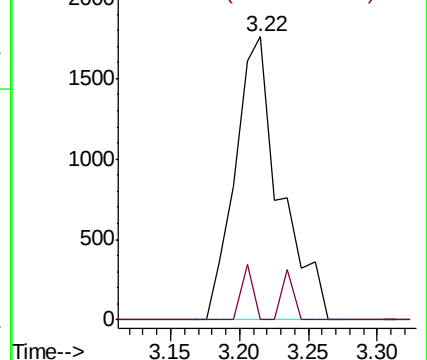
43 100

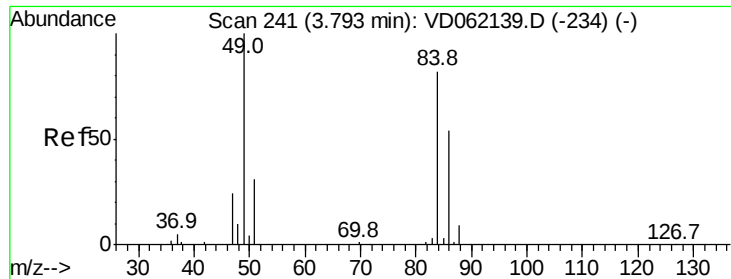
58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 57.95 (57.65 to 58.65): V

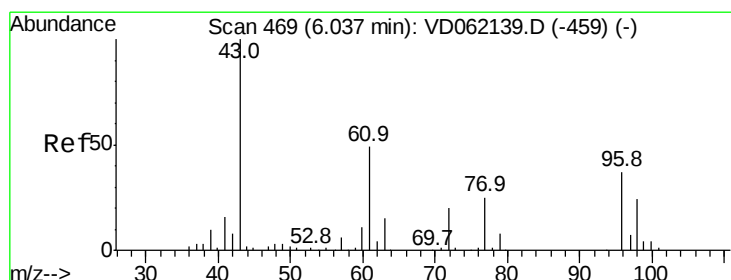
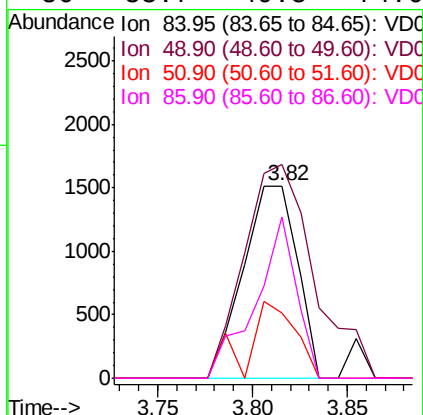
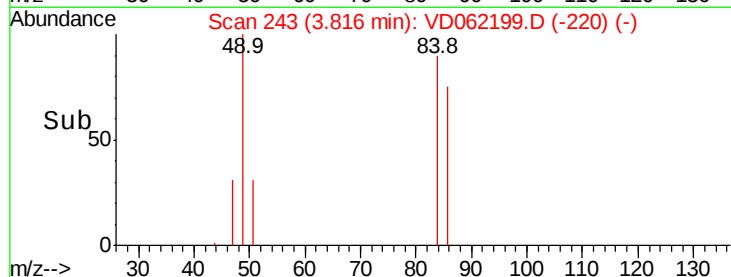
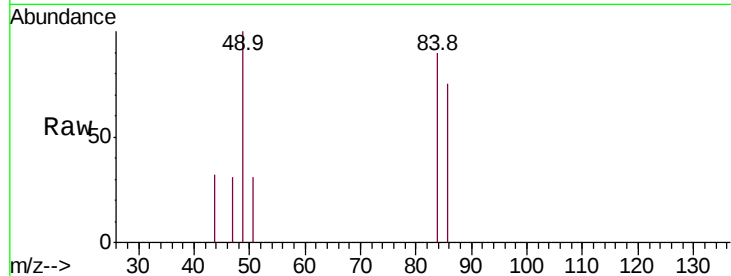




#20
Methvlene Chloride
Concen: 101.569 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD062199.D
Acq: 9 May 2019 20:23

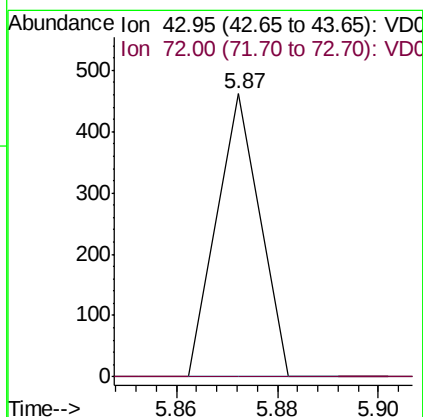
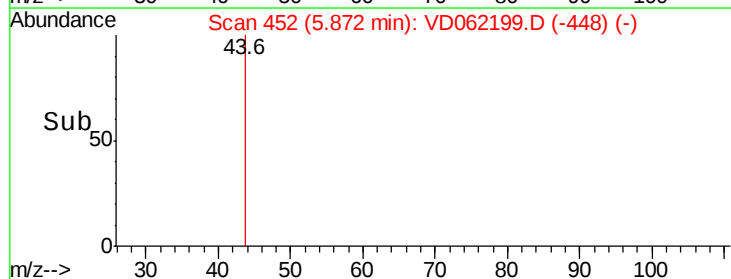
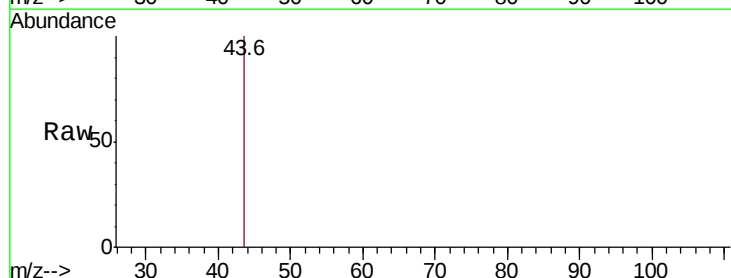
Instrument :
MSVOA_D
ClientSampleId :
P026-SS002-0002-01

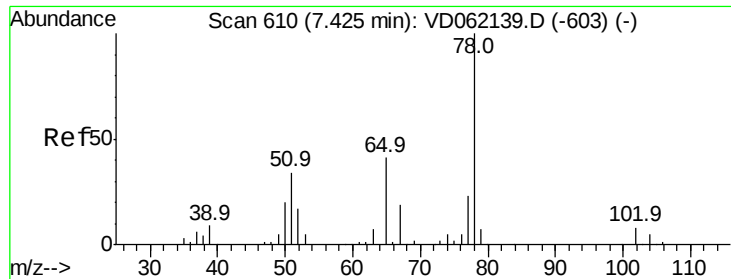
Tot Ion: 84 Resp: 3001
Ion Ratio Lower Upper
84 100
49 110.9 94.0 141.0
51 33.9 29.0 43.4
86 83.7 49.8 74.6#



#25
2-Butanone
Concen: 35.369 ug/l
RT: 5.87 min Scan# 452
Delta R.T. -0.16 min
Lab File: VD062199.D
Acq: 9 May 2019 20:23

Tgt Ion: 43 Resp: 273
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#





#33

1,2-Dichloroethane-d4

Concen: 667.628 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.01 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

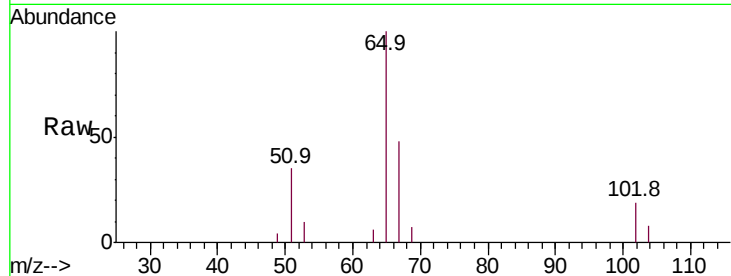
P026-SS002-0002-01

Tot Ion: 65 Resp: 22528

Ion Ratio Lower Upper

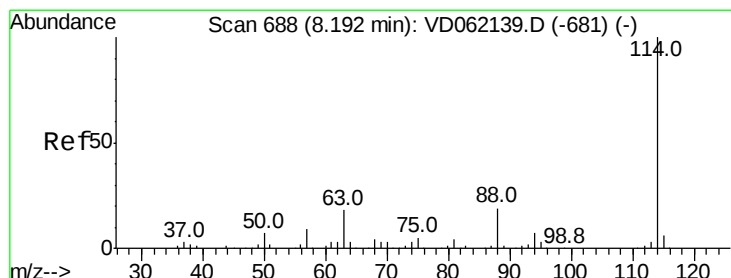
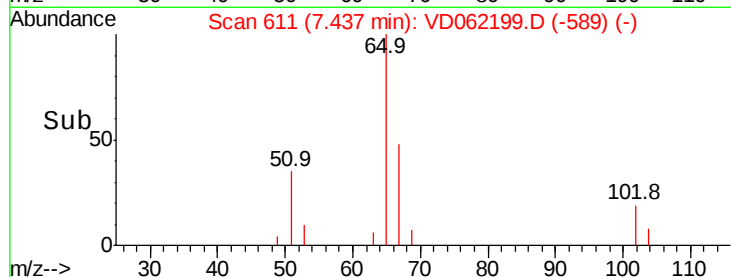
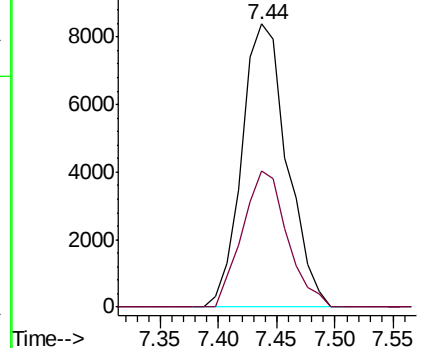
65 100

67 48.0 0.0 98.0



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: 8.20 min Scan# 689

Delta R.T. 0.01 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

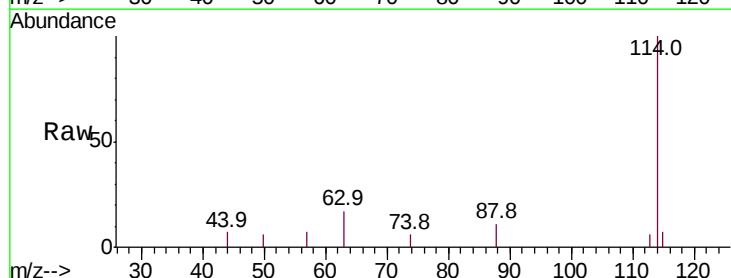
Tgt Ion:114 Resp: 11612

Ion Ratio Lower Upper

114 100

63 17.2 0.0 32.4

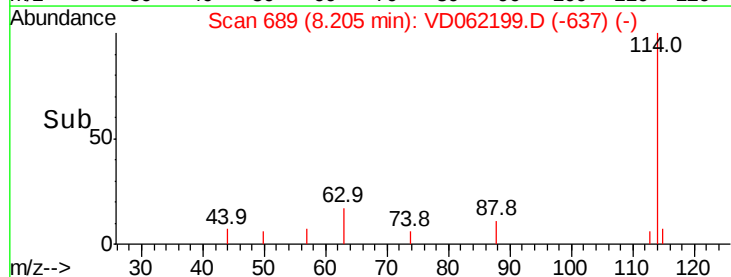
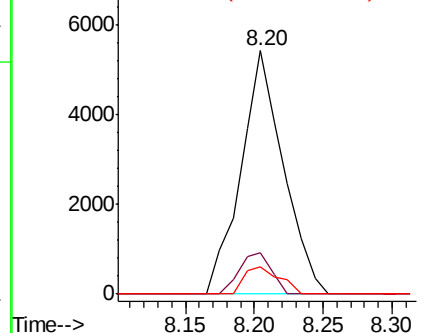
88 11.3 0.0 33.6

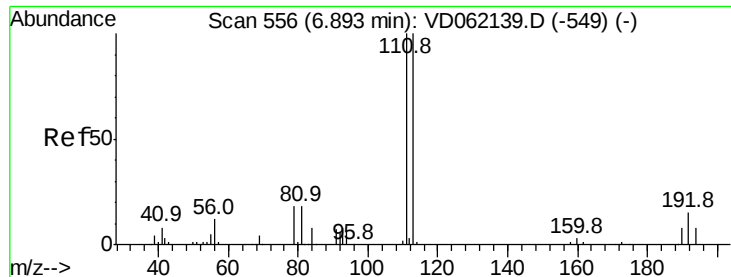


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 136.674 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.02 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

P026-SS002-0002-01

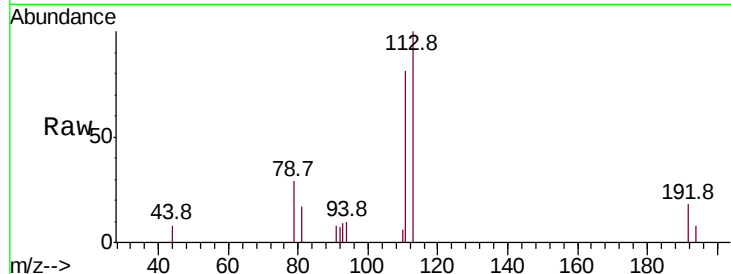
Tot Ion:113 Resp: 13168

Ion Ratio Lower Upper

113 100

111 81.3 78.5 117.7

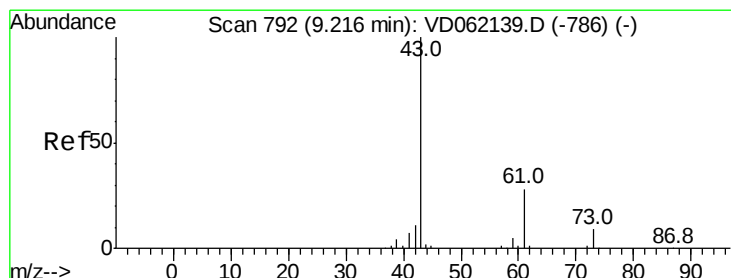
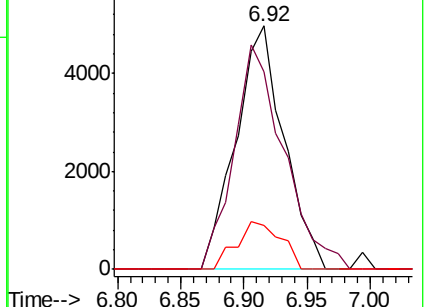
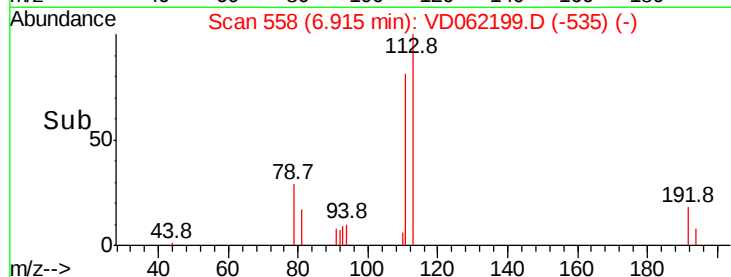
192 18.2 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#43

Isopropyl Acetate

Concen: 3.283 ug/l

RT: 9.36 min Scan# 806

Delta R.T. 0.14 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

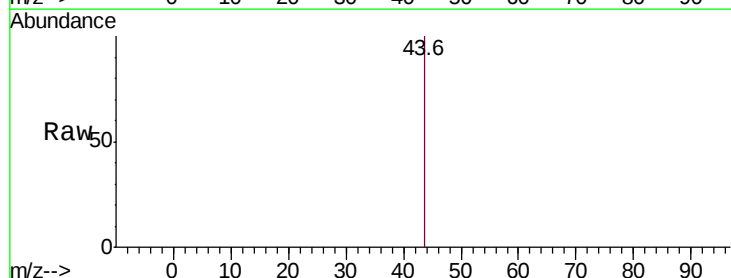
Tgt Ion: 43 Resp: 188

Ion Ratio Lower Upper

43 100

61 0.0 25.1 37.7#

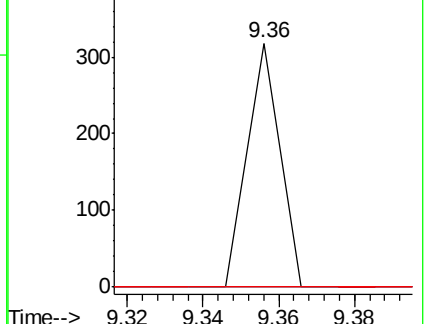
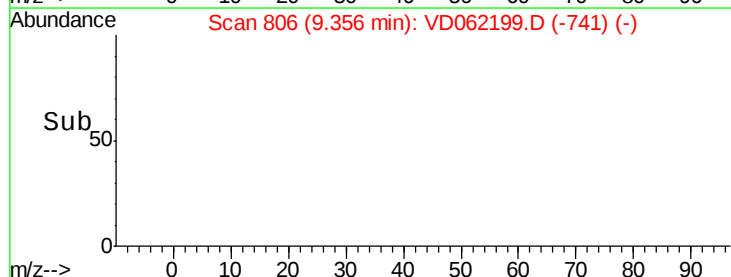
87 0.0 0.0 0.0

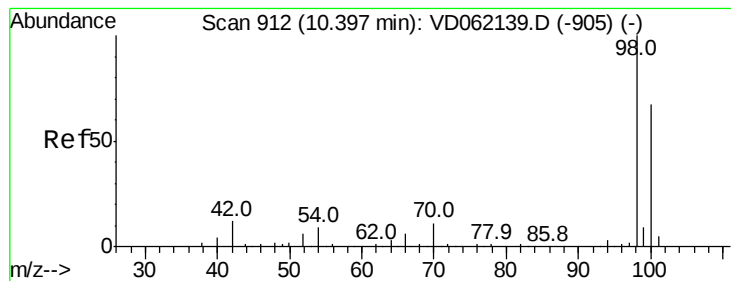


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC





#50

Toluene-d8

Concen: 49.178 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

Instrument :

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ClientSampleId :

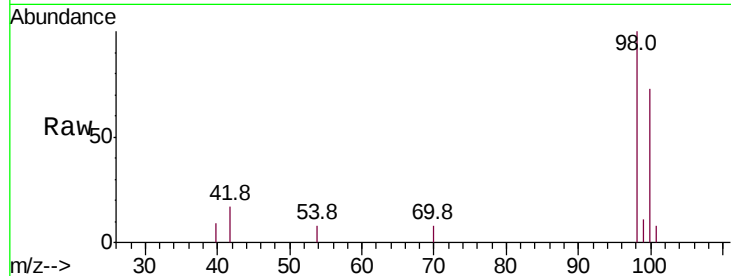
P026-SS002-0002-01

Tot Ion: 98 Resp: 11424

Ion Ratio Lower Upper

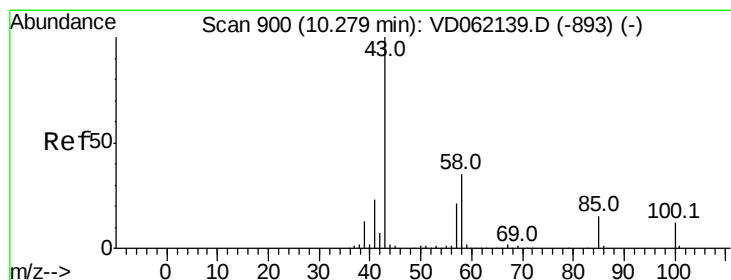
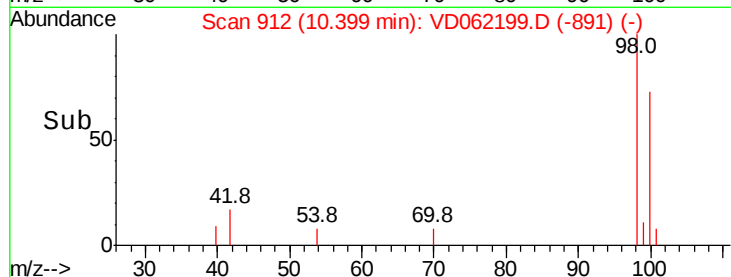
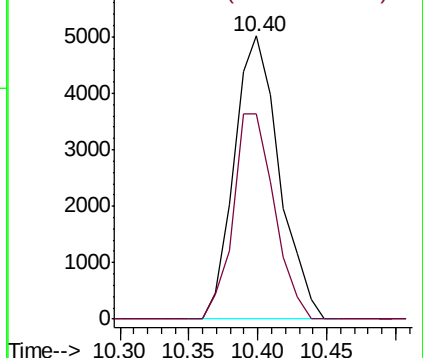
98 100

100 72.7 53.8 80.8



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: 6.113 ug/l

RT: 10.18 min Scan# 890

Delta R.T. -0.10 min

Lab File: VD062199.D

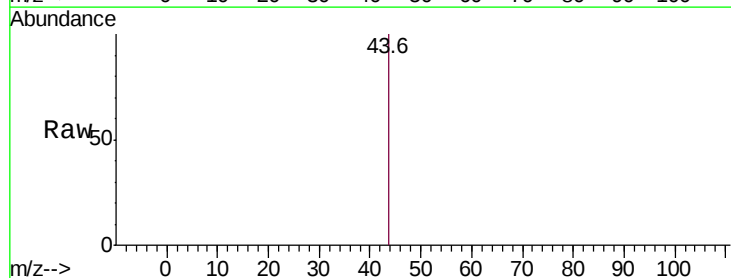
Acq: 9 May 2019 20:23

Tgt Ion: 43 Resp: 225

Ion Ratio Lower Upper

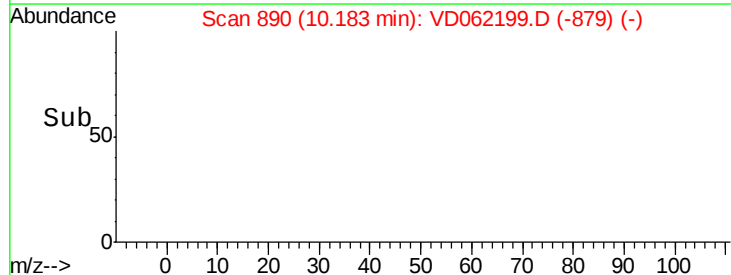
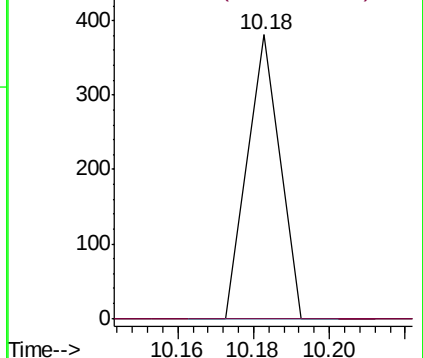
43 100

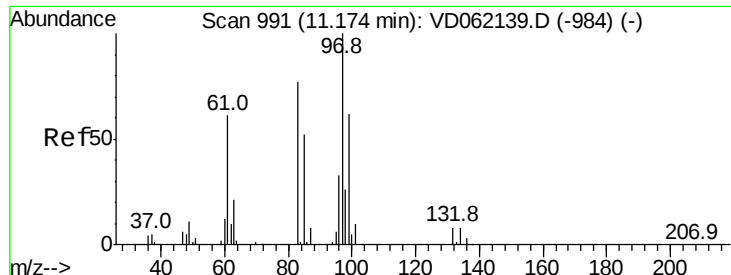
58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

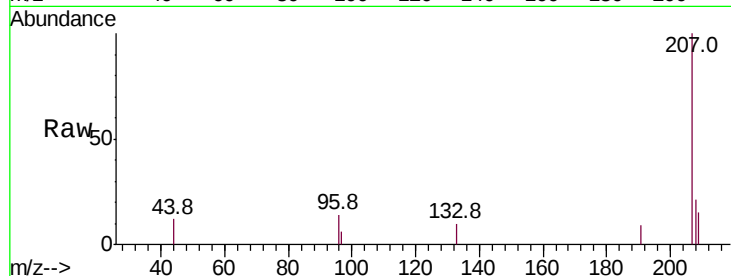




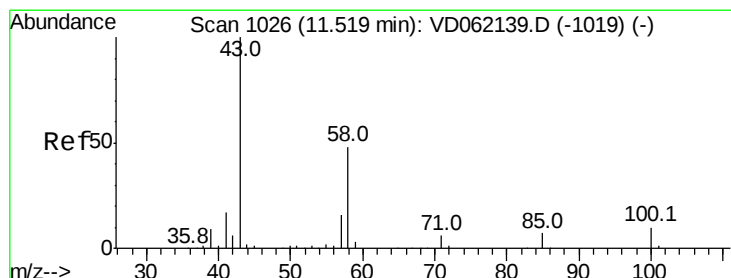
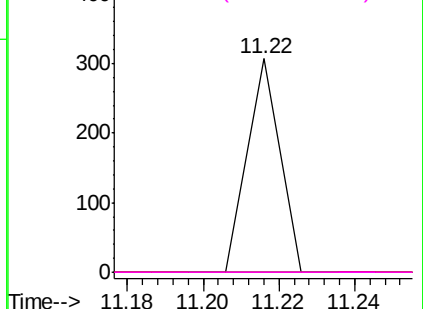
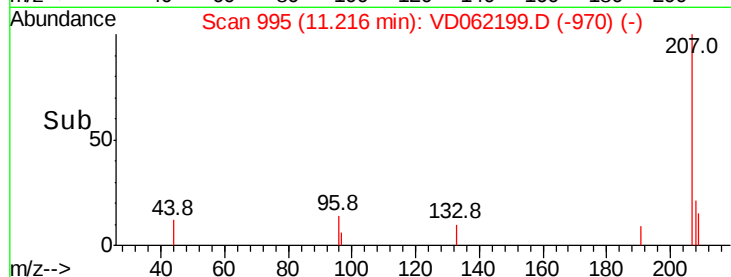
#55
 1,1,2-Trichloroethane
 Concen: 3.657 ug/l
 RT: 11.22 min Scan# 995
 Delta R.T. 0.04 min
 Lab File: VD062199.D
 Acq: 9 May 2019 20:23

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS002-0002-01

Tot Ion: 97 Resp: 181
 Ion Ratio Lower Upper
 97 100
 83 0.0 65.7 98.5#
 85 0.0 45.6 68.4#
 99 0.0 48.4 72.6#

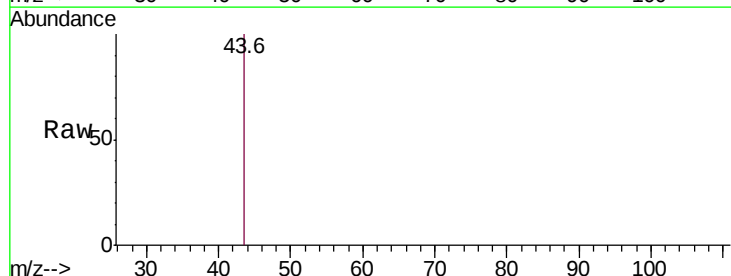


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

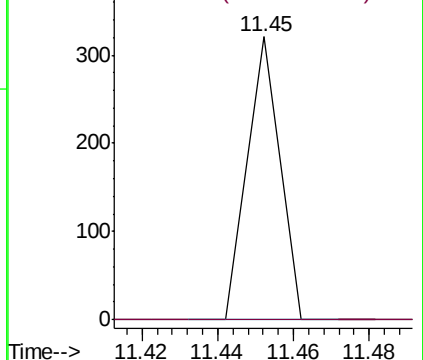
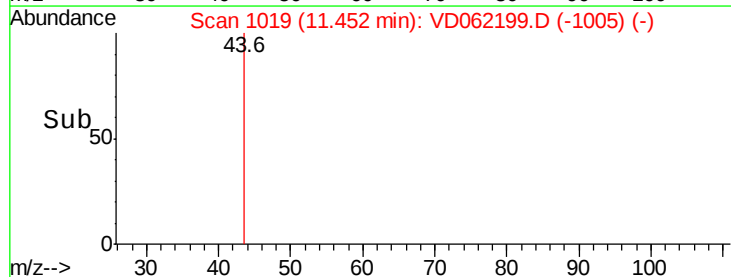


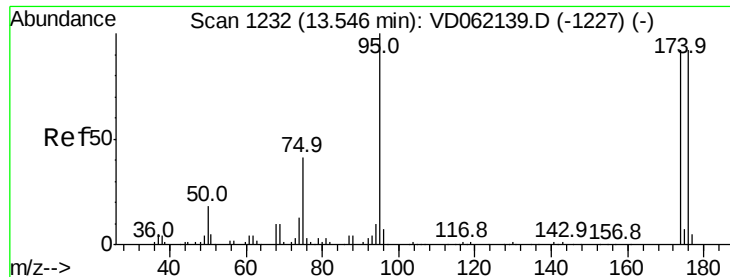
#59
 2-Hexanone
 Concen: 7.003 ug/l
 RT: 11.45 min Scan# 1019
 Delta R.T. -0.07 min
 Lab File: VD062199.D
 Acq: 9 May 2019 20:23

Tgt Ion: 43 Resp: 190
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.4 76.4#



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

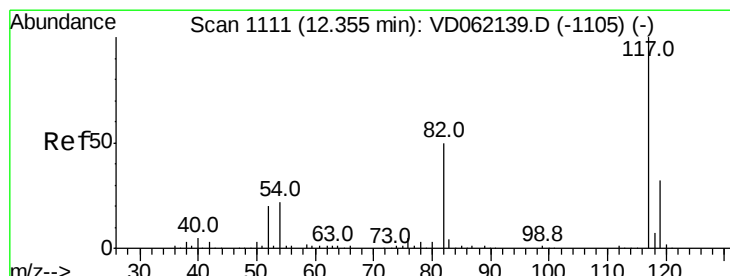
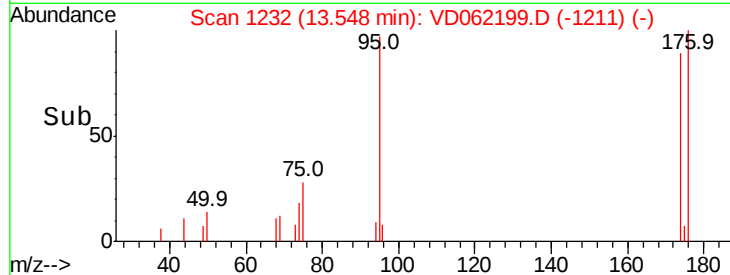
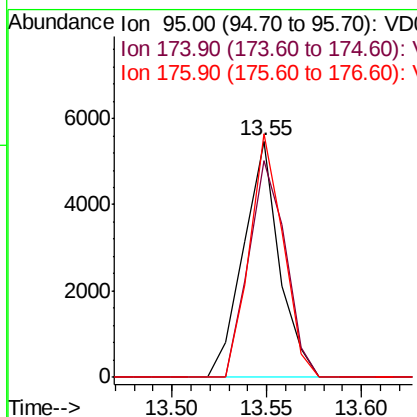
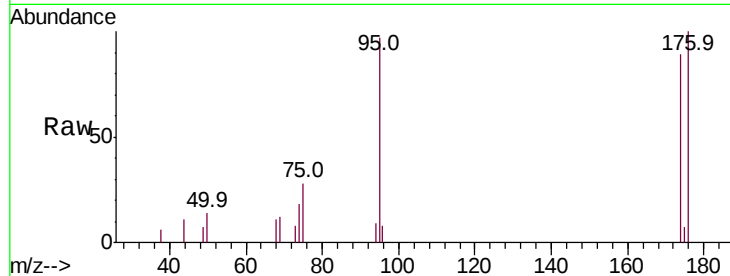




#62
 4-Bromofluorobenzene
 Concen: 77.239 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VD062199.D
 Acq: 9 May 2019 20:23

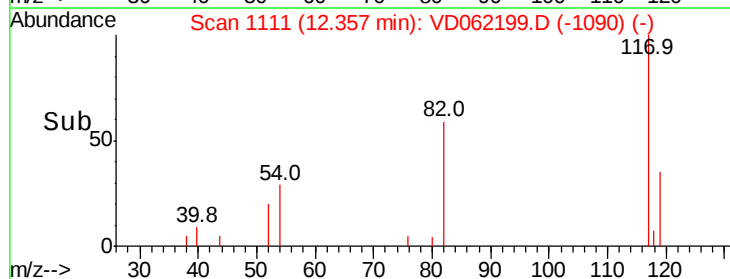
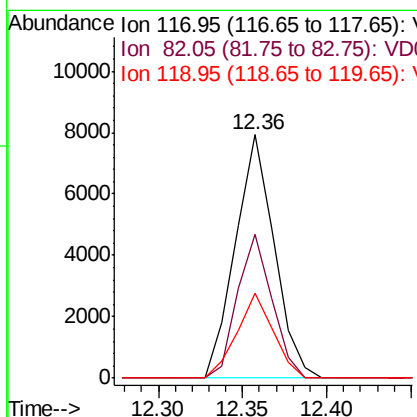
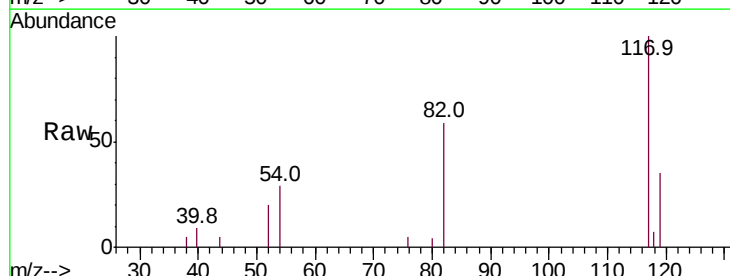
Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS002-0002-01

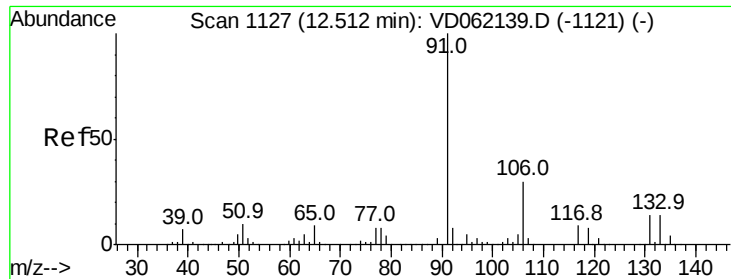
Tot Ion:	95	Resp:	7205
Ion	Ratio	Lower	Upper
95	100		
174	92.0	0.0	181.8
176	103.1	0.0	174.4



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 12.36 min Scan# 1111
 Delta R.T. 0.00 min
 Lab File: VD062199.D
 Acq: 9 May 2019 20:23

Tgt Ion:	117	Resp:	12718
Ion	Ratio	Lower	Upper
117	100		
82	59.0	36.2	54.2#
119	34.9	26.2	39.4

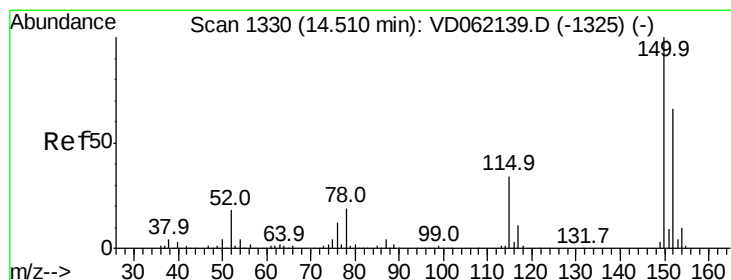
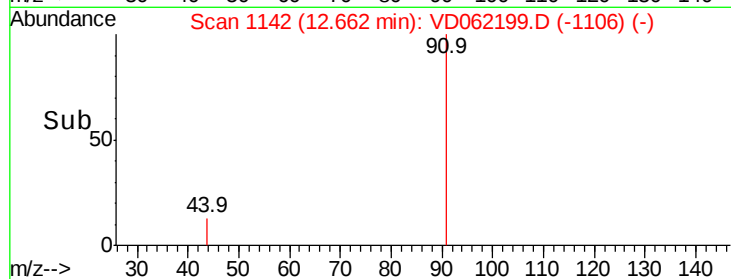
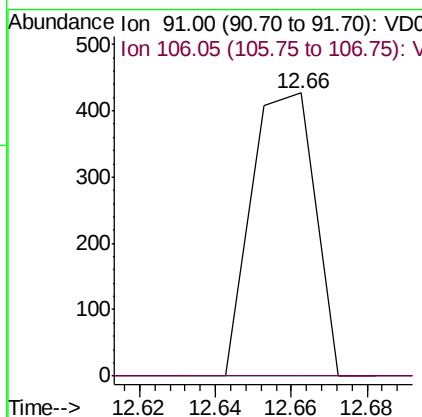
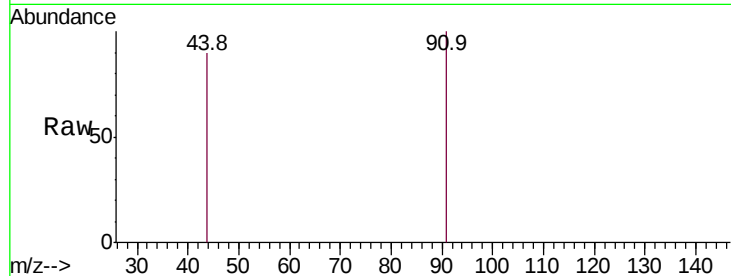




#67
Ethyl Benzene
Concen: 1.241 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. 0.15 min
Lab File: VD062199.D
Acq: 9 May 2019 20:23

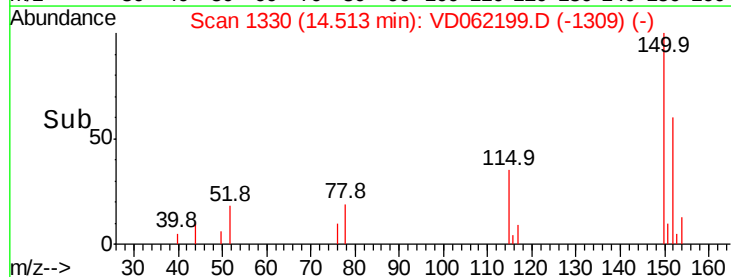
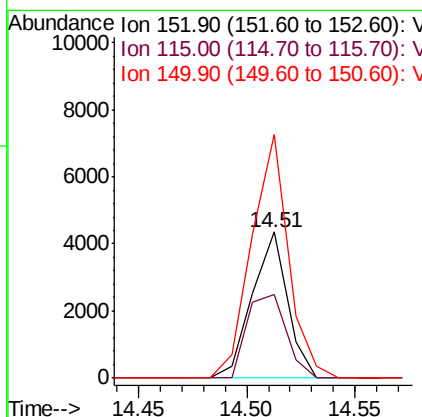
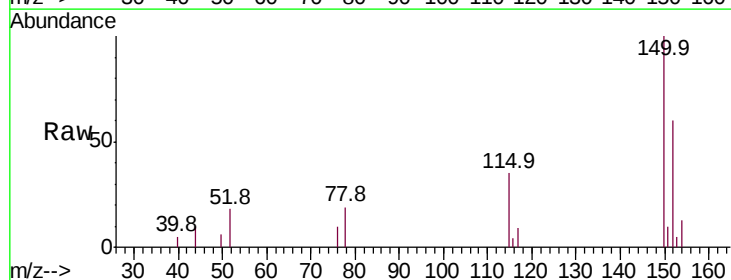
Instrument :
MSVOA_D
ClientSampleId :
P026-SS002-0002-01

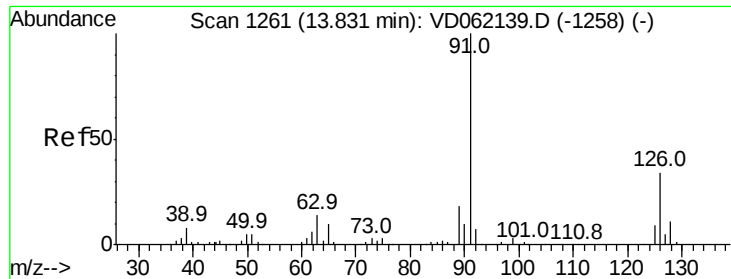
Tot Ion: 91 Resp: 492
Ion Ratio Lower Upper
91 100
106 0.0 24.7 37.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD062199.D
Acq: 9 May 2019 20:23

Tgt Ion: 152 Resp: 4932
Ion Ratio Lower Upper
152 100
115 57.6 30.9 92.7
150 166.6 0.0 314.8





#79

2-Chlorotoluene

Concen: 1.134 ug/l

RT: 13.76 min Scan# 1254

Delta R.T. -0.07 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

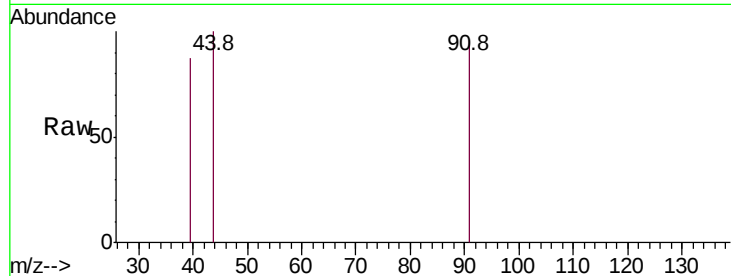
P026-SS002-0002-01

Tot Ion: 91 Resp: 229

Ion Ratio Lower Upper

91 100

126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC

13.76

400

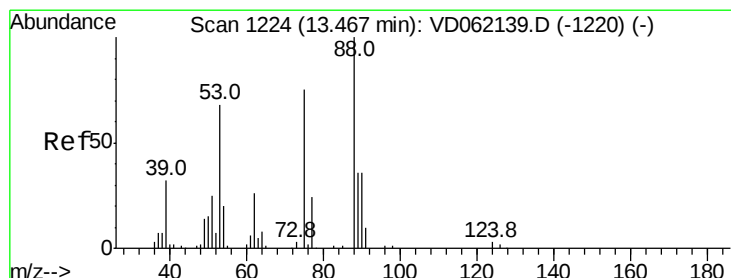
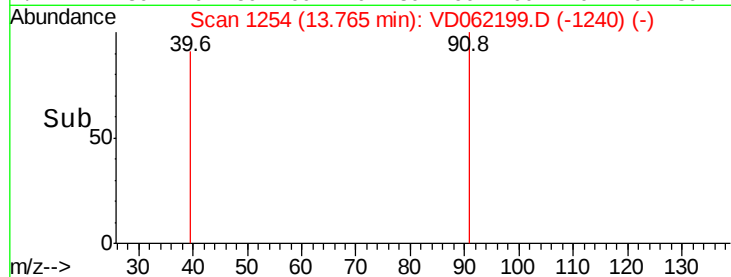
300

200

100

0

Time--> 13.74 13.76 13.78



#81

trans-1,4-Dichloro-2-butene

Concen: 153.686 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

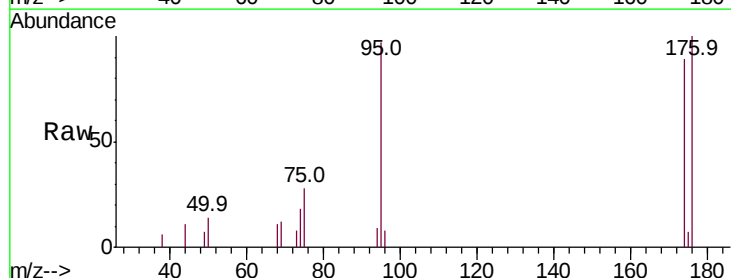
Tgt Ion: 75 Resp: 2543

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

2000

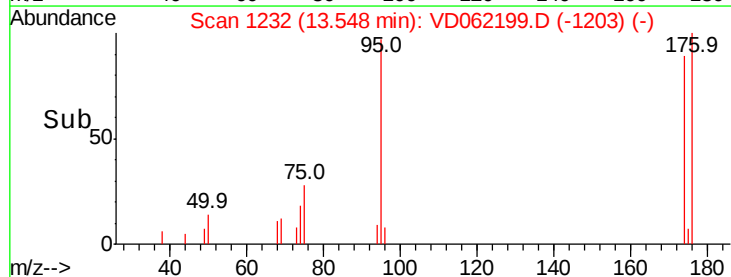
1500

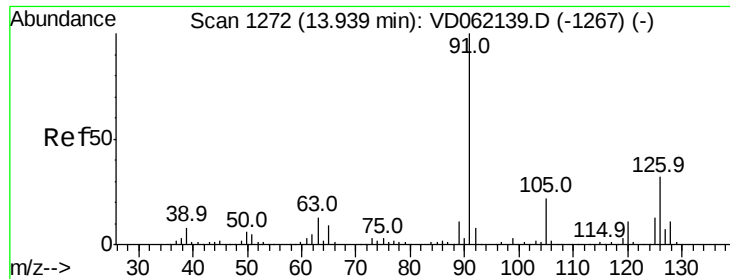
1000

500

0

Time--> 13.50 13.55

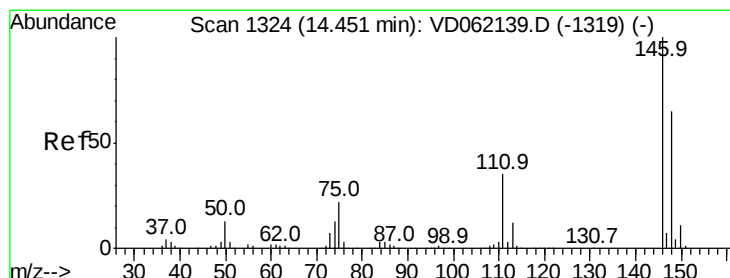
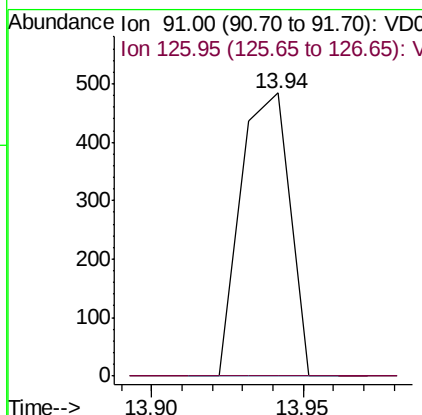
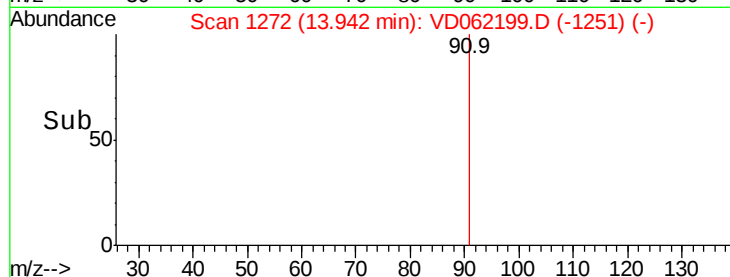
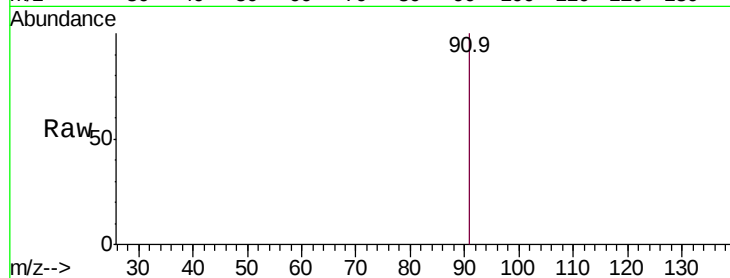




#82
4-Chlorotoluene
Concen: 2.285 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VD062199.D
Acq: 9 May 2019 20:23

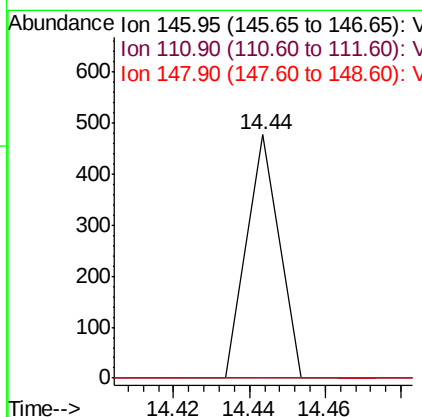
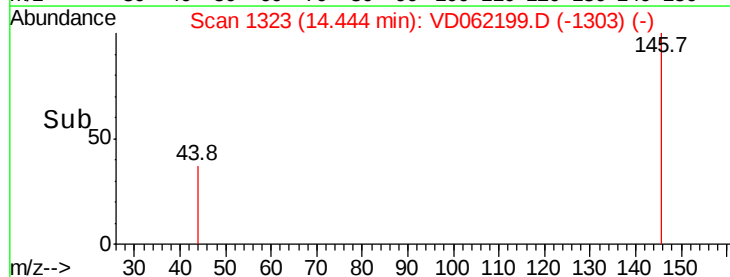
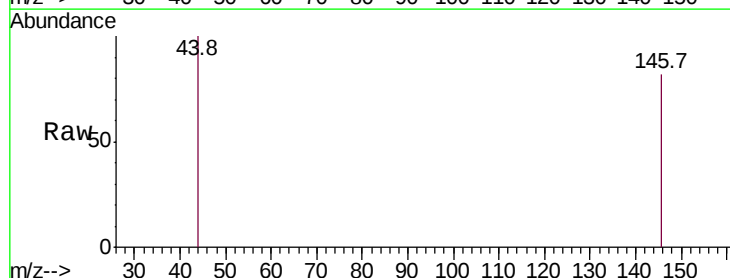
Instrument :
MSVOA_D
ClientSampleId :
P026-SS002-0002-01

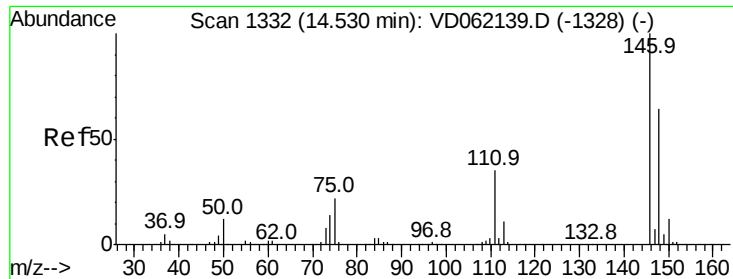
Tot Ion: 91 Resp: 543
Ion Ratio Lower Upper
91 100
126 0.0 19.1 57.5#



#87
1,3-Dichlorobenzene
Concen: 1.865 ug/l
RT: 14.44 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VD062199.D
Acq: 9 May 2019 20:23

Tgt Ion: 146 Resp: 282
Ion Ratio Lower Upper
146 100
111 0.0 20.0 60.0#
148 0.0 31.8 95.4#





#88

1,4-Dichlorobenzene

Concen: 2.020 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. 0.00 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

P026-SS002-0002-01

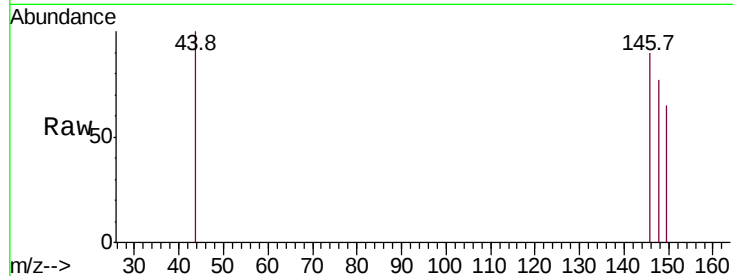
Tot Ion:146 Resp: 300

Ion Ratio Lower Upper

146 100

111 0.0 20.2 60.5#

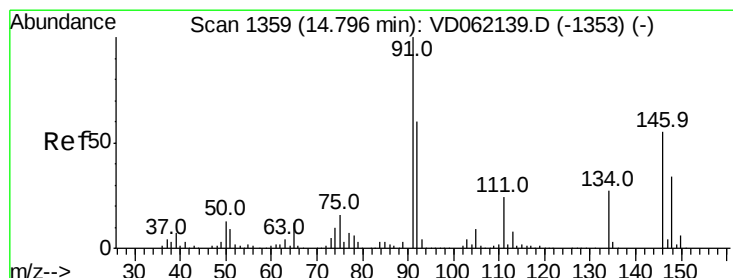
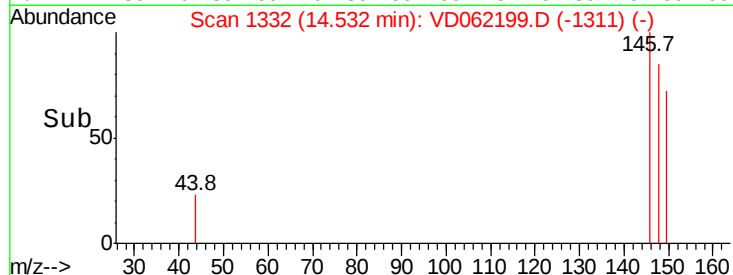
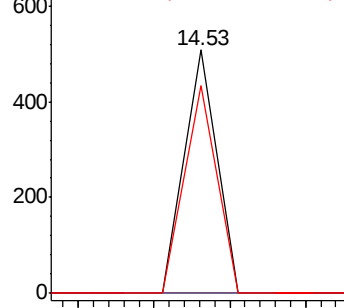
148 85.4 32.0 96.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 1.502 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VD062199.D

Acq: 9 May 2019 20:23

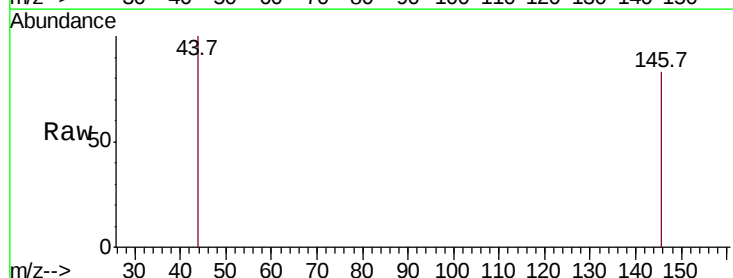
Tgt Ion:146 Resp: 187

Ion Ratio Lower Upper

146 100

111 0.0 20.0 59.9#

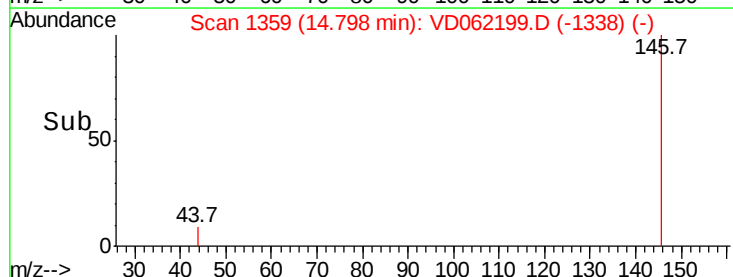
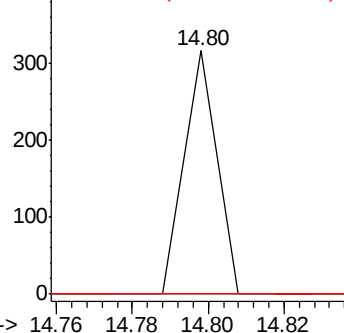
148 0.0 32.3 96.8#

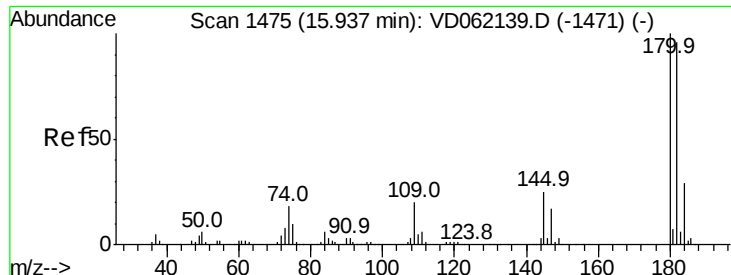


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

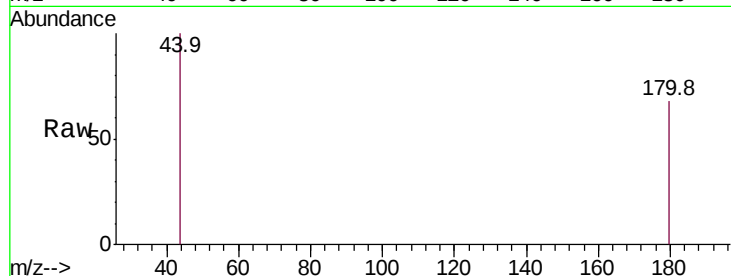




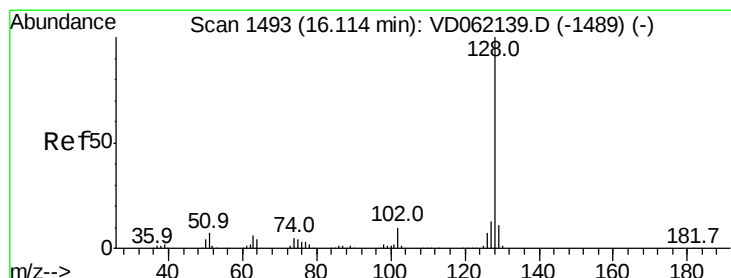
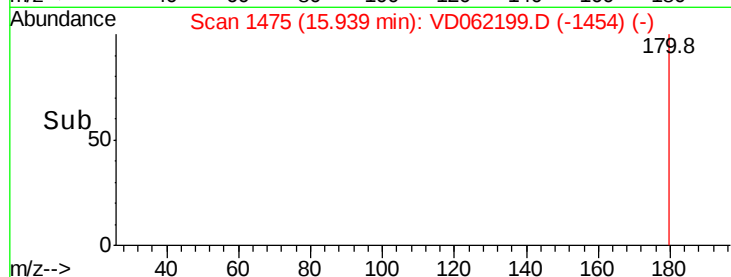
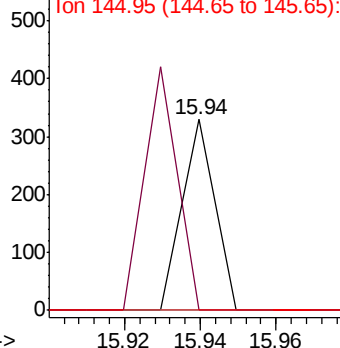
#93
 1,2,4-Trichlorobenzene
 Concen: 2.152 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062199.D
 Acq: 9 May 2019 20:23

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS002-0002-01

Tot Ion:180 Resp: 195
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.3 147.8#
 145 0.0 16.2 48.6#

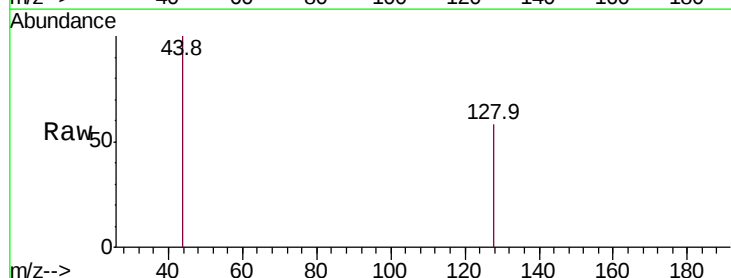


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 5.264 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062199.D
 Acq: 9 May 2019 20:23

Tgt Ion:128 Resp: 666
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.8 14.8#
 129 0.0 8.8 13.2#



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

