

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121818\
 Data File : VD060620.D
 Acq On : 18 Dec 2018 14:45
 Operator : VA/AP
 Sample : J6195-09RE
 Misc : 6.47g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-121718

Quant Time: Dec 19 02:48:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1661009	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.44	114	2351591	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	1839765	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	771800	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	486395	41.31	ug/l	-0.01
Spiked Amount			Recovery	=	82.62%	
35) Dibromofluoromethane	6.33	113	662211	38.34	ug/l	0.00
Spiked Amount			Recovery	=	76.68%	
50) Toluene-d8	9.46	98	1847695	36.97	ug/l	0.00
Spiked Amount			Recovery	=	73.94%	
62) 4-Bromofluorobenzene	12.42	95	609601	34.08	ug/l	-0.01
Spiked Amount			Recovery	=	68.16%	

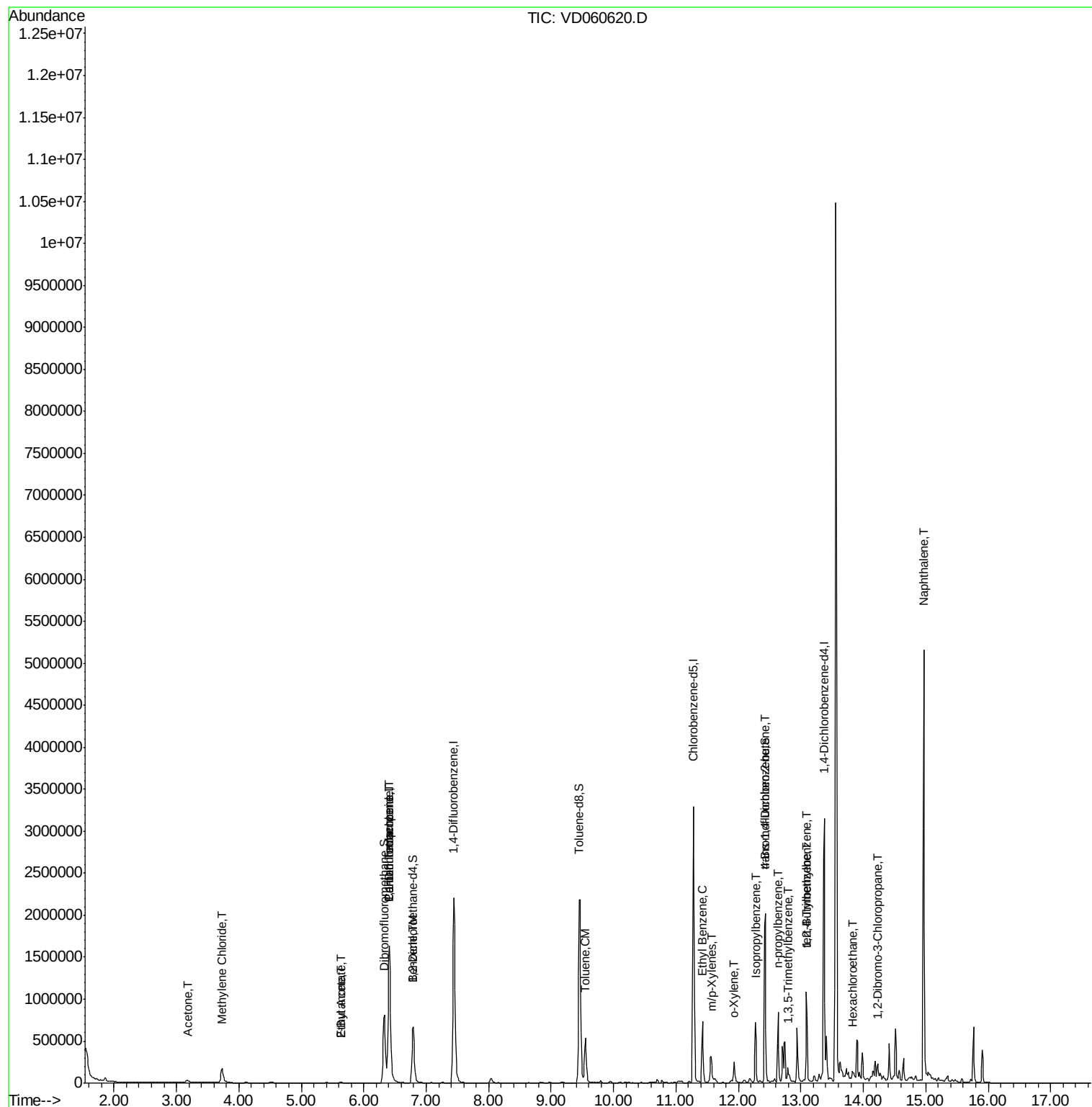
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	1401	Below Cal		100
16) Acetone	3.17	43	62960	33.363	ug/l	96
20) Methylene Chloride	3.73	84	112170	2.197	ug/l	94
25) 2-Butanone	5.62	43	21077	5.677	ug/l #	92
31) Cyclohexane	6.40	56	39896	Below Cal	#	1
36) 1,1-Dichloropropene	6.41	75	119467	5.197	ug/l #	47
37) Ethyl Acetate	5.62	43	21077	2.114	ug/l #	68
38) Carbon Tetrachloride	6.41	117	128892	6.246	ug/l #	16
40) Benzene	6.79	78	148100	2.521	ug/l	94
52) Toluene	9.55	92	276244	7.523	ug/l	99
67) Ethyl Benzene	11.43	91	496898	7.485	ug/l	95
68) m/p-Xylenes	11.56	106	97723	3.979	ug/l	92
69) o-Xylene	11.94	106	60003	2.564	ug/l	94
73) Isopropylbenzene	12.27	105	412501	7.553	ug/l	99
78) n-propylbenzene	12.64	91	561372	8.131	ug/l	98
80) 1,3,5-Trimethylbenzene	12.79	105	70025	1.678	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.42	75	246471	101.054	ug/l #	15
83) tert-Butylbenzene	13.09	119	59135	1.264	ug/l #	59
84) 1,2,4-Trimethylbenzene	13.09	105	483792	11.196	ug/l	98
90) Hexachloroethane	13.84	117	17771	1.533	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.23	75	2316	2.186	ug/l #	2
95) Naphthalene	14.97	128	3126996	158.291	ug/l	99

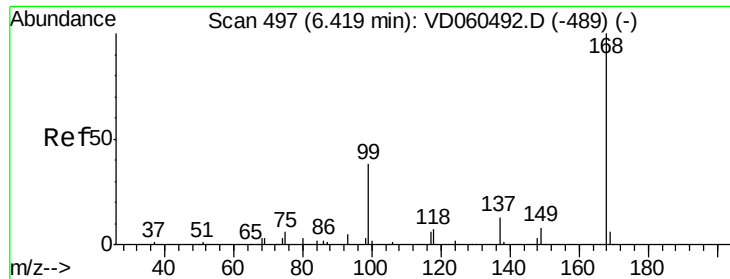
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 19 02:48:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.01 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

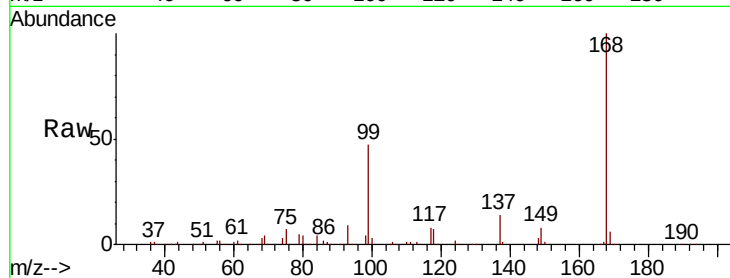
OR-03-121718

Tot Ion:168 Resp: 1661009

Ion Ratio Lower Upper

168 100

99 47.3 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

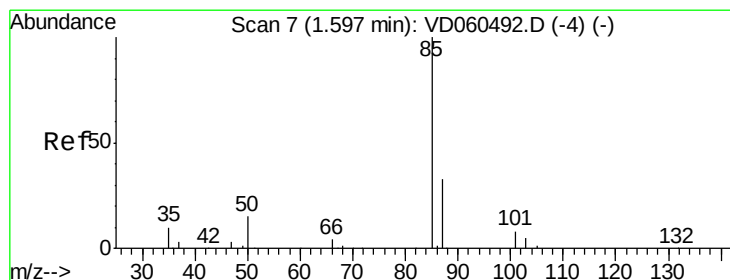
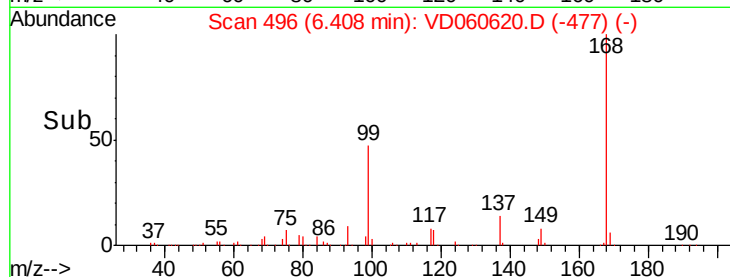
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.61 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060620.D

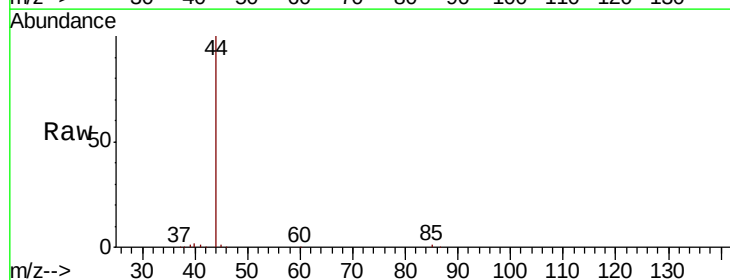
Acq: 18 Dec 2018 14:45

Tgt Ion: 85 Resp: 1401

Ion Ratio Lower Upper

85 100

87 33.1 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.61

1000

800

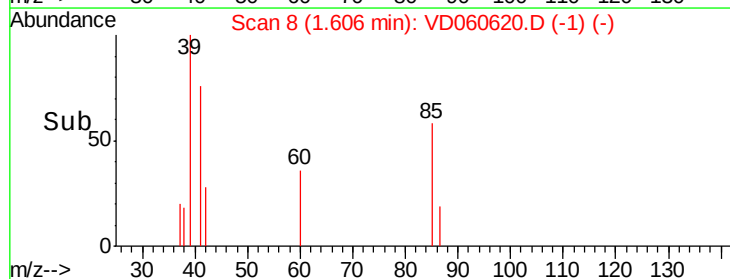
600

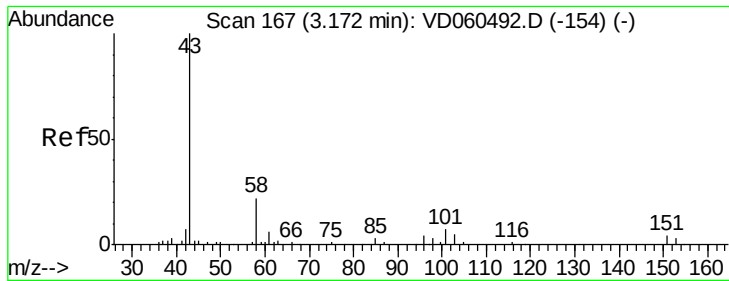
400

200

0

Time-->





#16

Acetone

Concen: 33.363 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.00 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

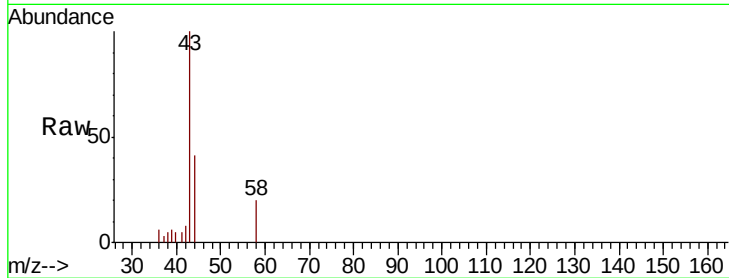
OR-03-121718

Tot Ion: 43 Resp: 62960

Ion Ratio Lower Upper

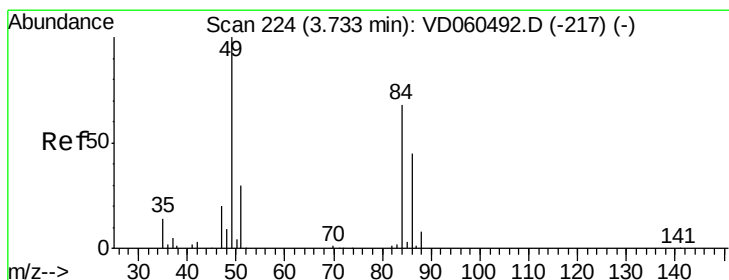
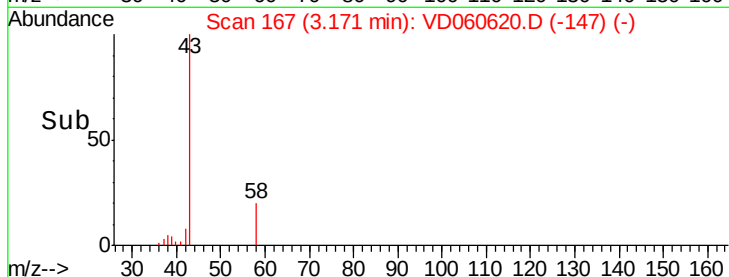
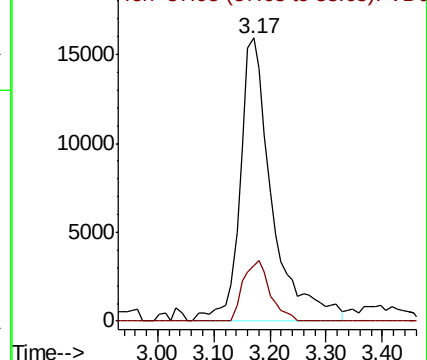
43 100

58 19.7 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.197 ug/l

RT: 3.73 min Scan# 224

Delta R.T. -0.00 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Tgt Ion: 84 Resp: 112170

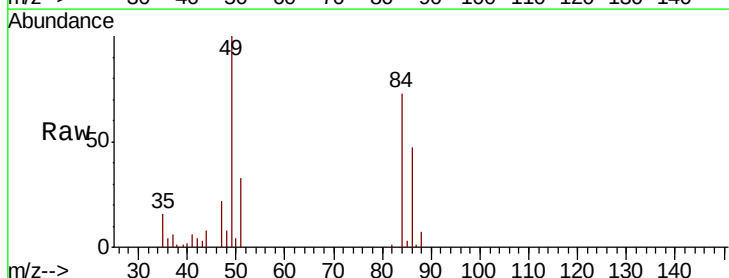
Ion Ratio Lower Upper

84 100

49 136.8 117.2 175.8

51 45.5 35.3 52.9

86 64.1 53.2 79.8

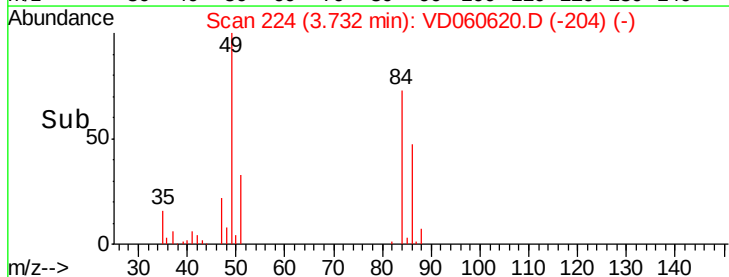
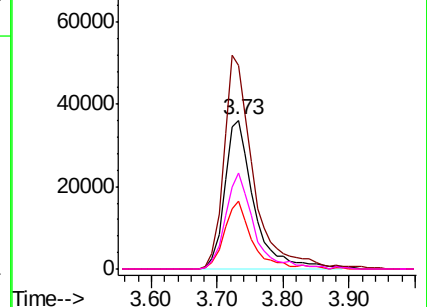


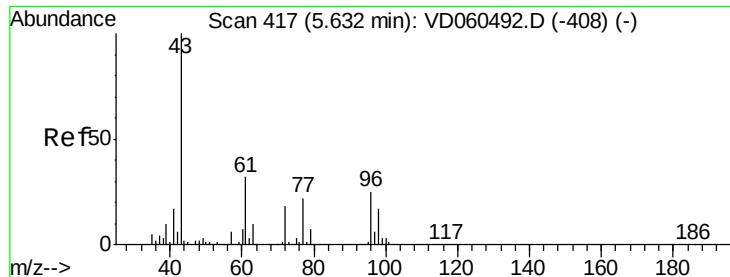
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 5.677 ug/l

RT: 5.62 min Scan# 416

Delta R.T. -0.01 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

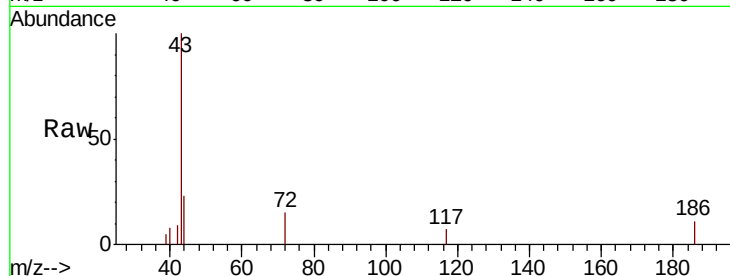
OR-03-121718

Tot Ion: 43 Resp: 21077

Ion Ratio Lower Upper

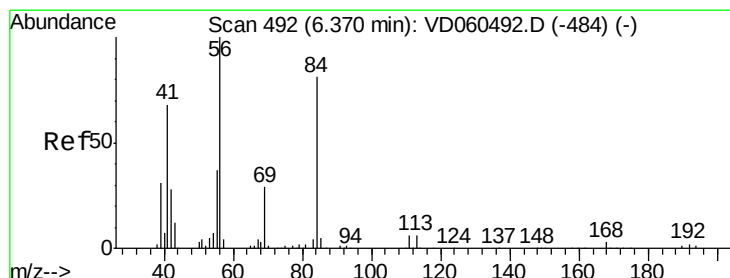
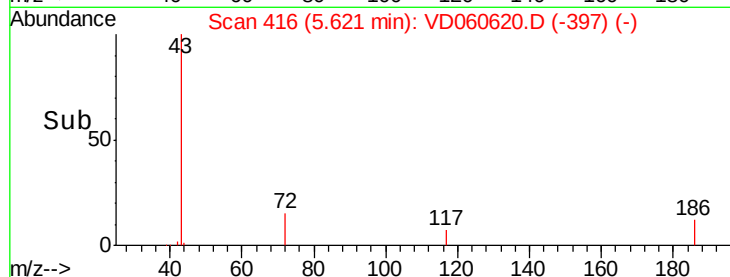
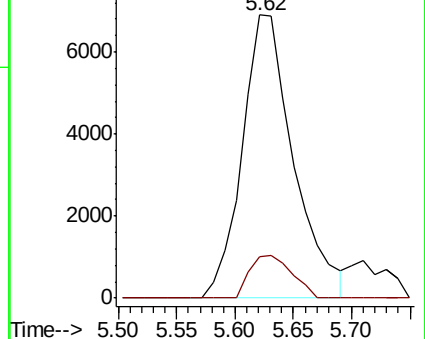
43 100

72 14.5 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 6.40 min Scan# 495

Delta R.T. 0.03 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

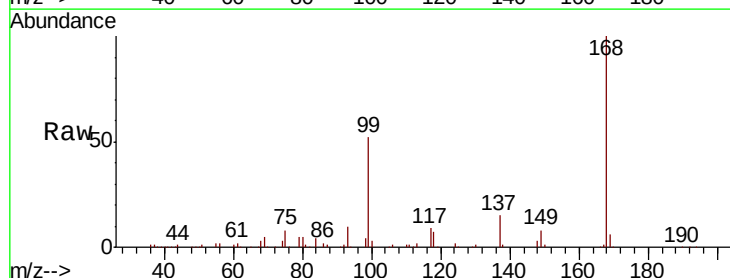
Tgt Ion: 56 Resp: 39896

Ion Ratio Lower Upper

56 100

69 239.7 22.8 34.2#

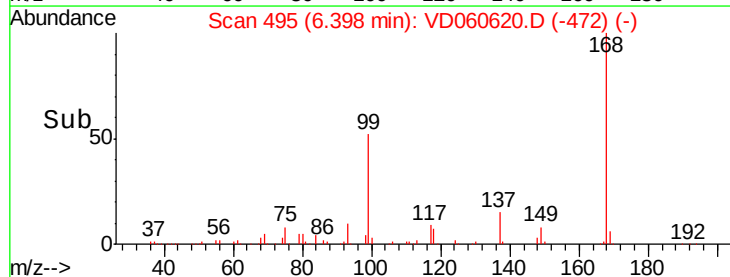
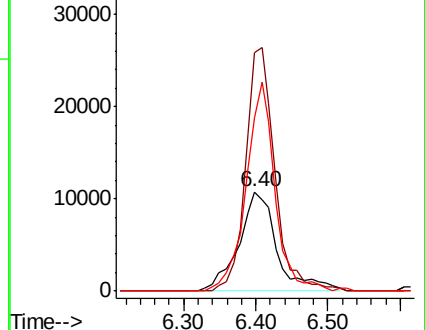
84 174.0 65.1 97.7#

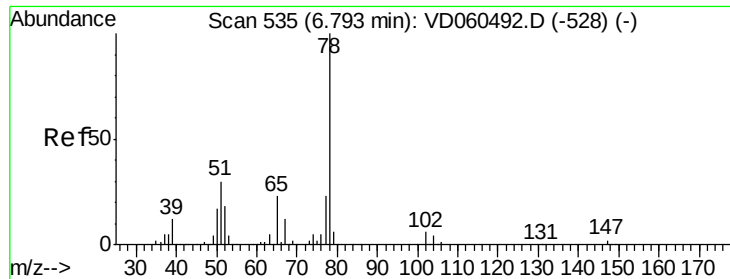


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

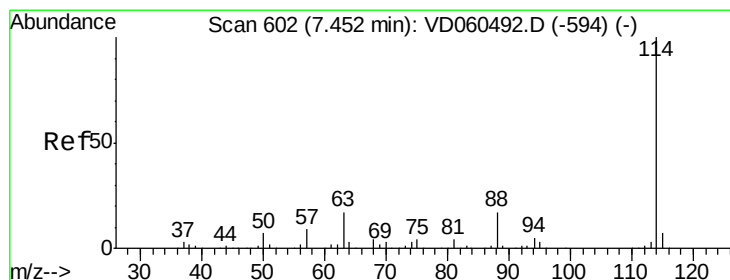
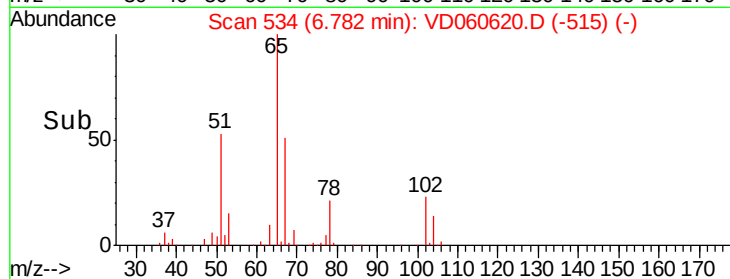
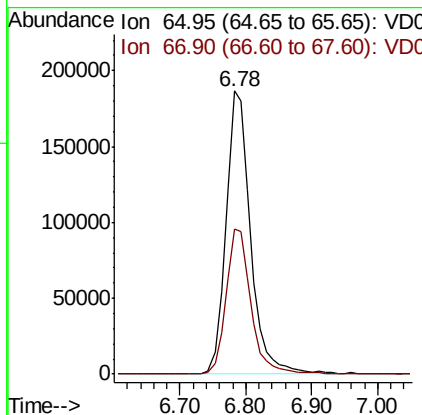
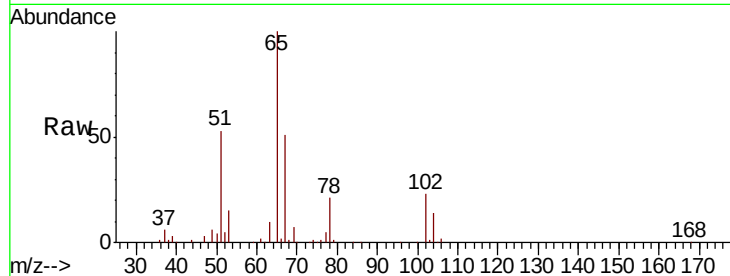




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.78 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VD060620.D
 Acq: 18 Dec 2018 14:45

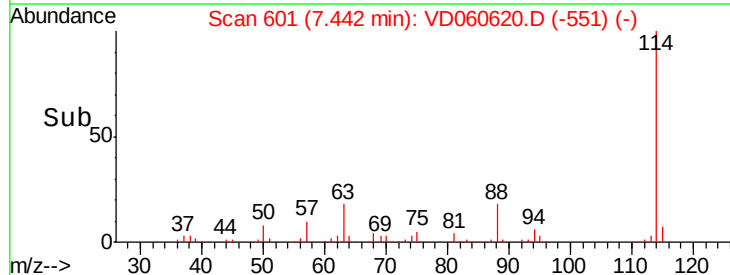
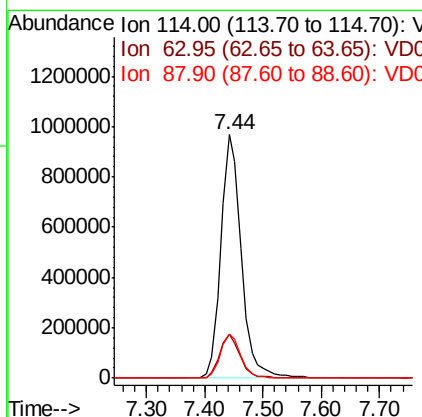
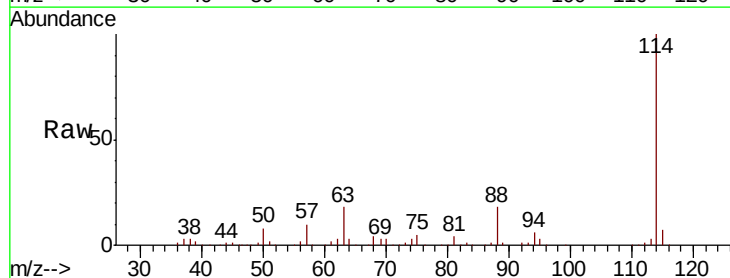
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-121718

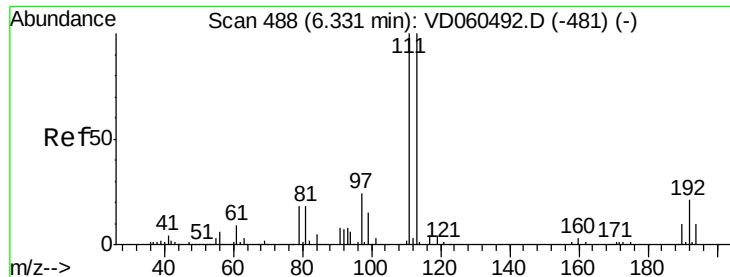
Tot Ion: 65 Resp: 486395
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. -0.01 min
 Lab File: VD060620.D
 Acq: 18 Dec 2018 14:45

Tgt Ion: 114 Resp: 2351591
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 34.2
 88 18.0 0.0 35.0

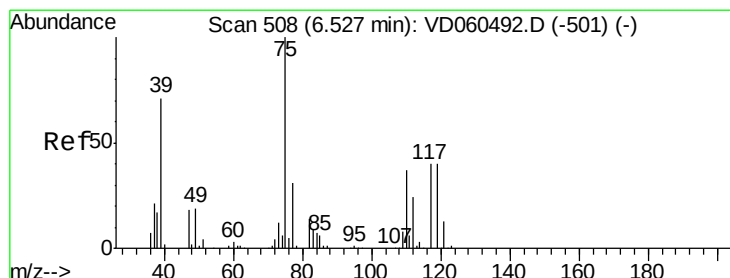
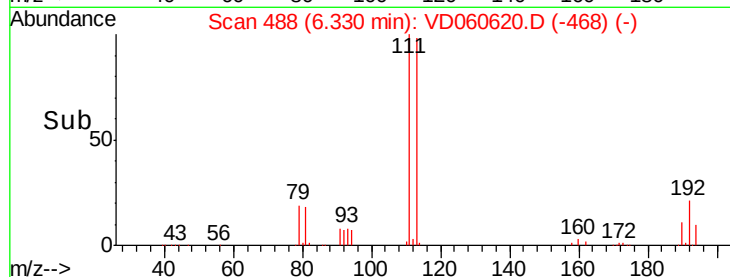
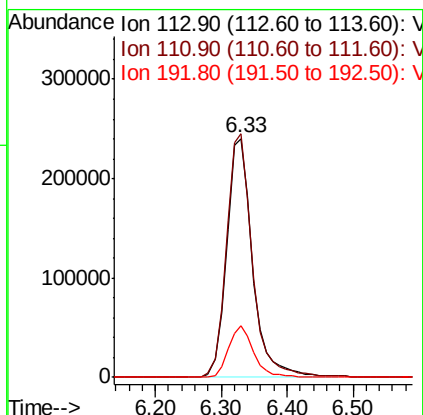
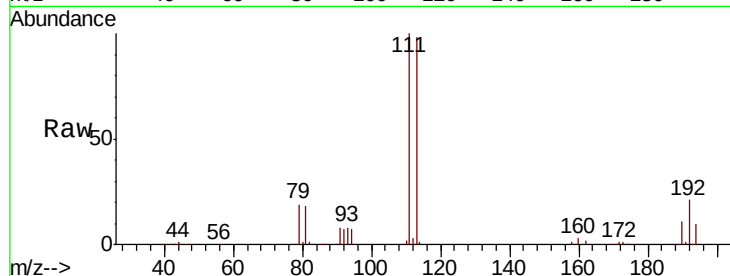




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.33 min Scan# 488
 Delta R.T. -0.00 min
 Lab File: VD060620.D
 Acq: 18 Dec 2018 14:45

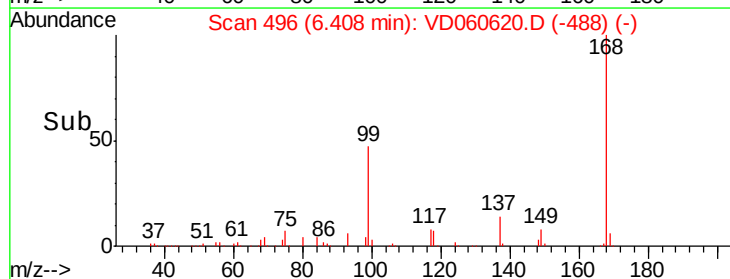
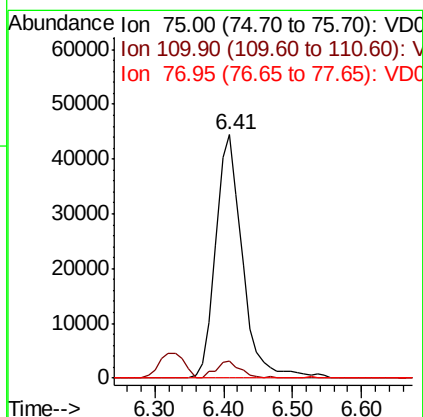
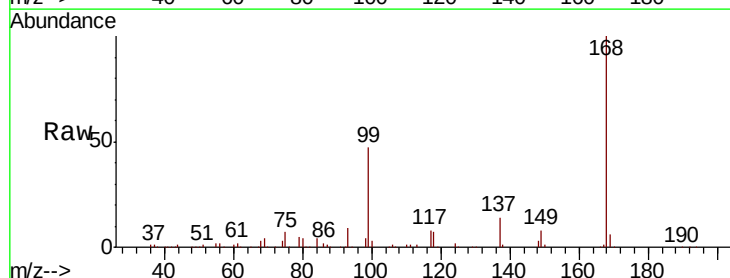
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-121718

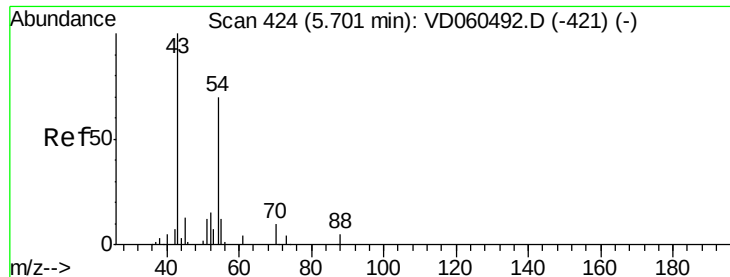
Tot Ion:113 Resp: 662211
 Ion Ratio Lower Upper
 113 100
 111 102.0 80.2 120.4
 192 21.5 16.6 24.8



#36
 1,1-Dichloropropene
 Concen: 5.197 ug/l
 RT: 6.41 min Scan# 496
 Delta R.T. -0.12 min
 Lab File: VD060620.D
 Acq: 18 Dec 2018 14:45

Tgt Ion: 75 Resp: 119467
 Ion Ratio Lower Upper
 75 100
 110 7.0 18.3 54.8#
 77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 2.114 ug/l

RT: 5.62 min Scan# 416

Delta R.T. -0.08 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

OR-03-121718

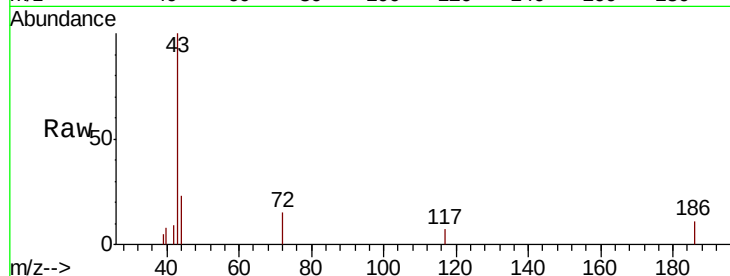
Tot Ion: 43 Resp: 21077

Ion Ratio Lower Upper

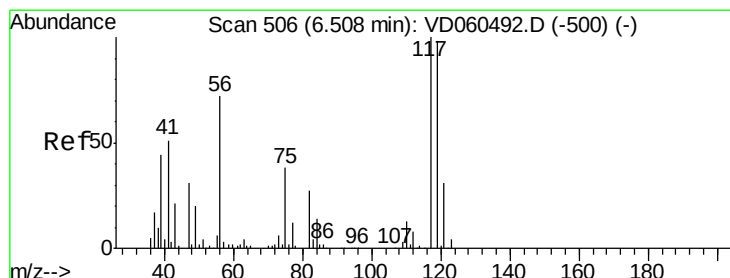
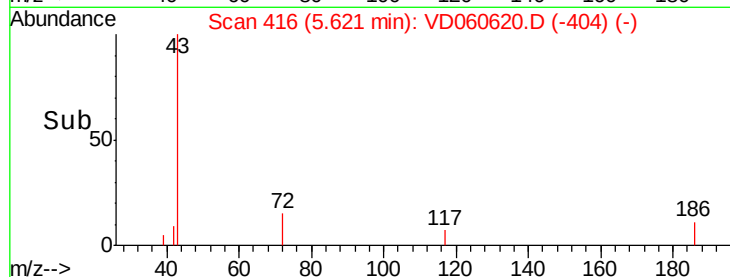
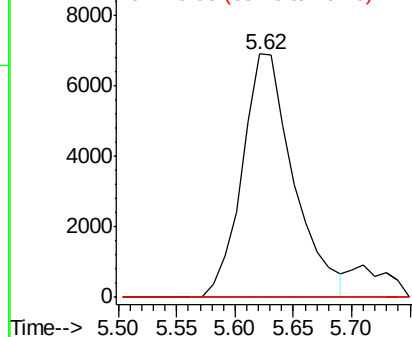
43 100

61 0.0 12.4 18.6#

70 0.0 5.4 8.0#



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: 6.246 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.10 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

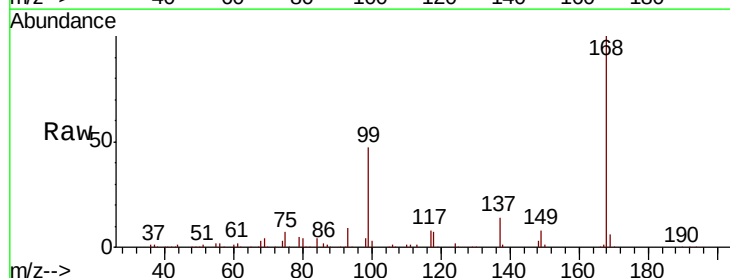
Tgt Ion: 117 Resp: 128892

Ion Ratio Lower Upper

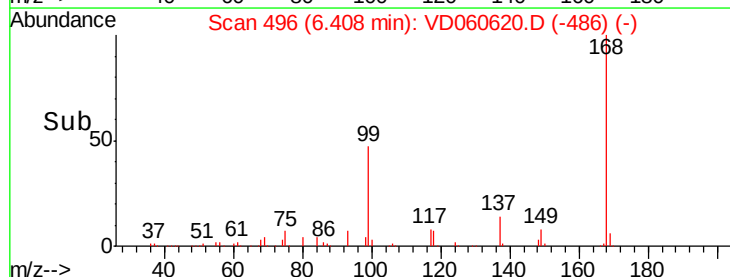
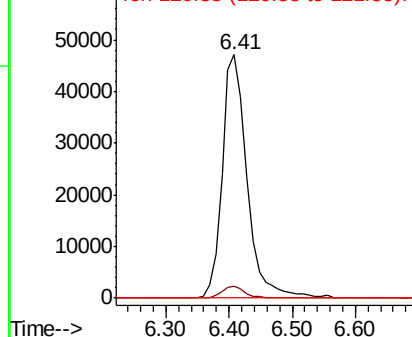
117 100

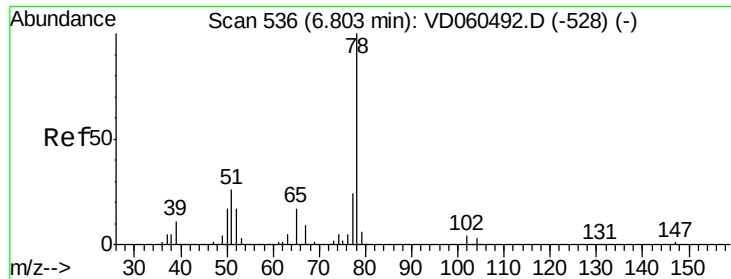
119 4.8 76.8 115.2#

121 0.0 24.4 36.6#



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





#40

Benzene

Concen: 2.521 ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.01 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

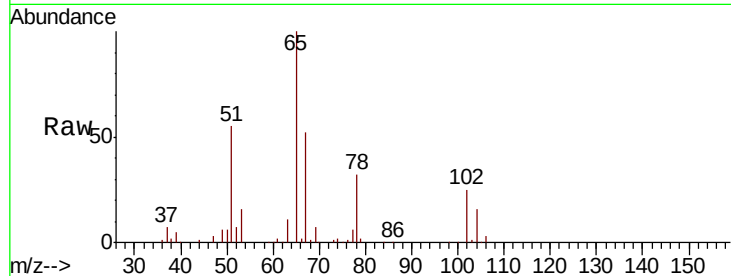
OR-03-121718

Tot Ion: 78 Resp: 148100

Ion Ratio Lower Upper

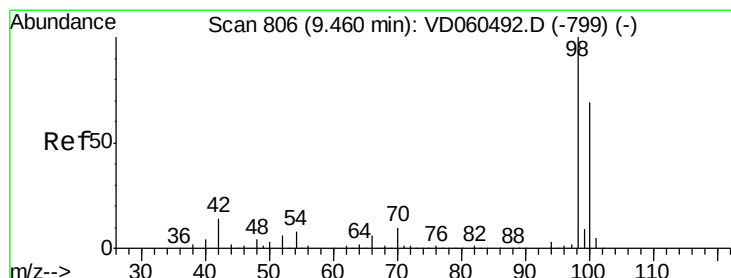
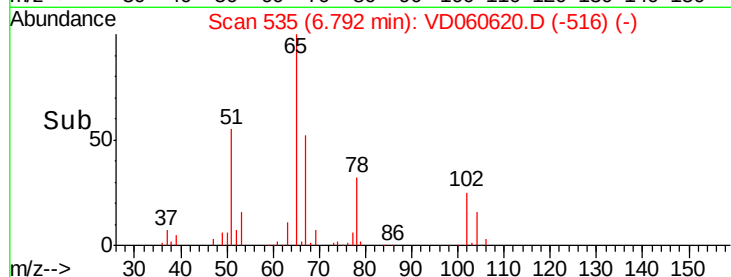
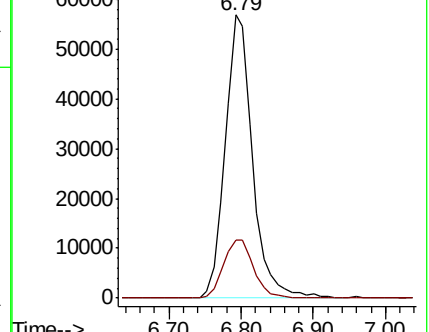
78 100

77 20.5 18.9 28.3



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.46 min Scan# 806

Delta R.T. -0.00 min

Lab File: VD060620.D

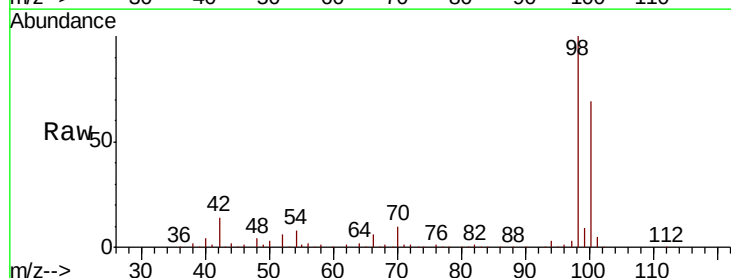
Acq: 18 Dec 2018 14:45

Tgt Ion: 98 Resp: 1847695

Ion Ratio Lower Upper

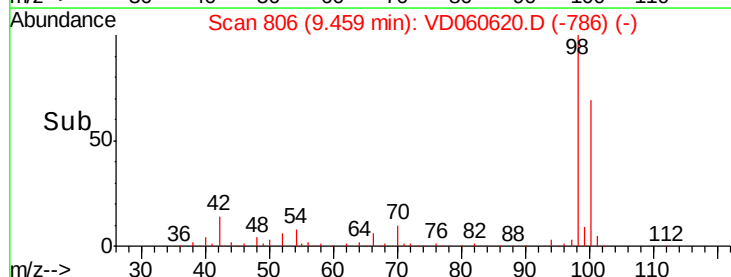
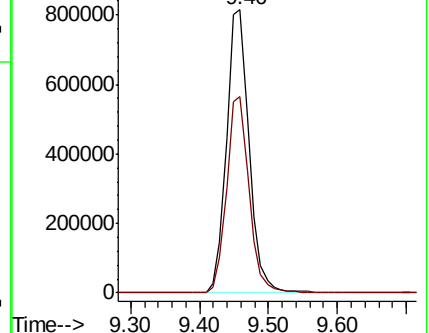
98 100

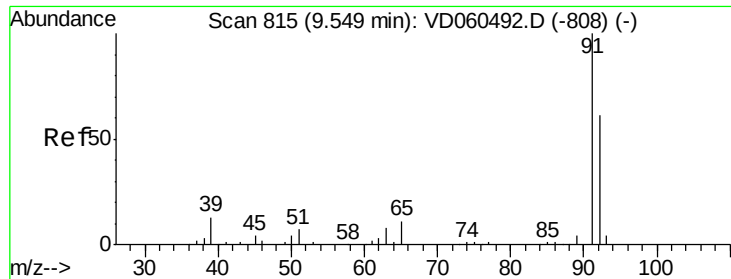
100 69.5 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 7.523 ug/l

RT: 9.55 min Scan# 815

Delta R.T. -0.00 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

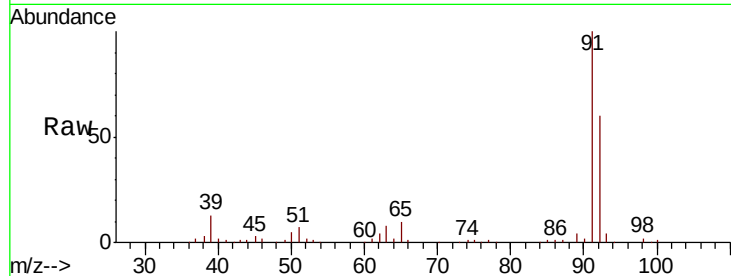
OR-03-121718

Tot Ion: 92 Resp: 276244

Ion Ratio Lower Upper

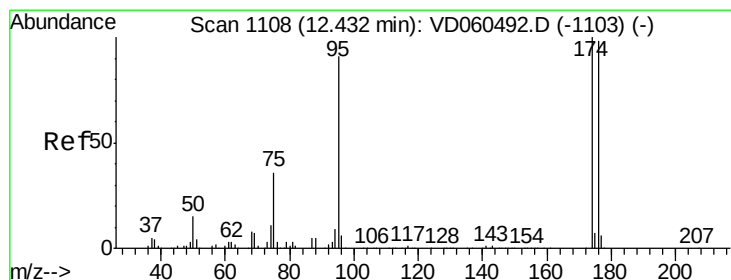
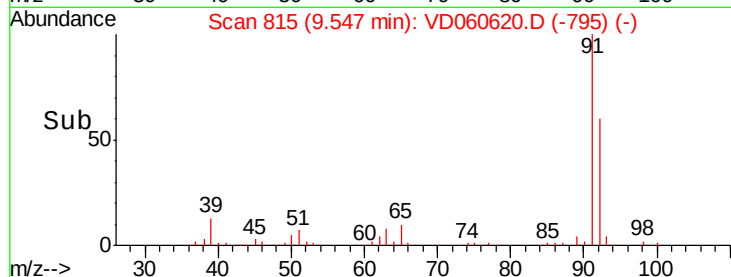
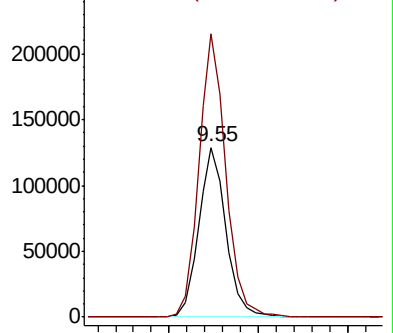
92 100

91 166.5 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

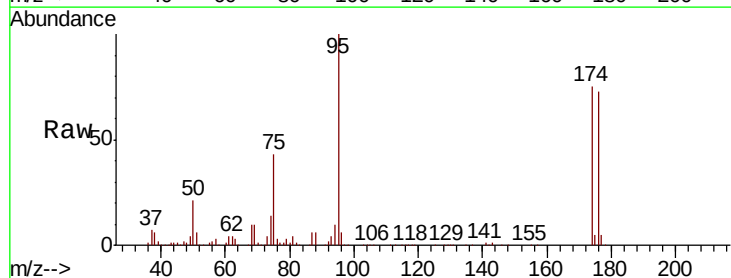
Tgt Ion: 95 Resp: 609601

Ion Ratio Lower Upper

95 100

174 74.7 0.0 219.4

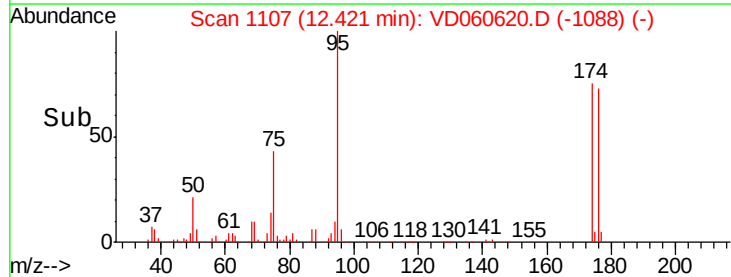
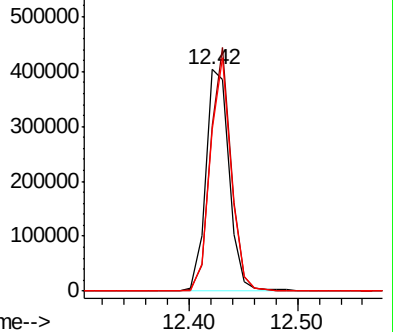
176 73.1 0.0 214.6

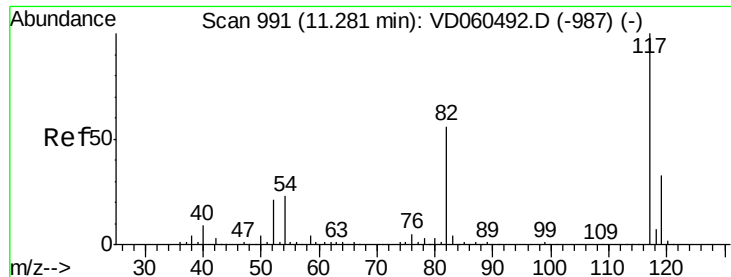


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

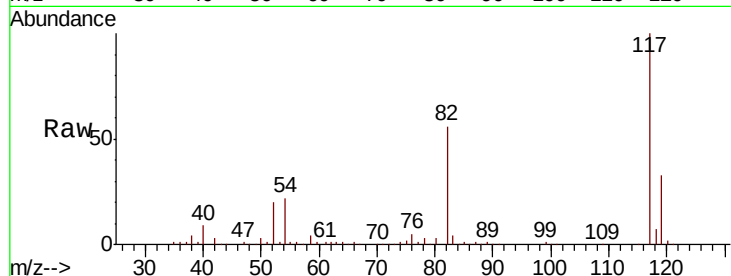




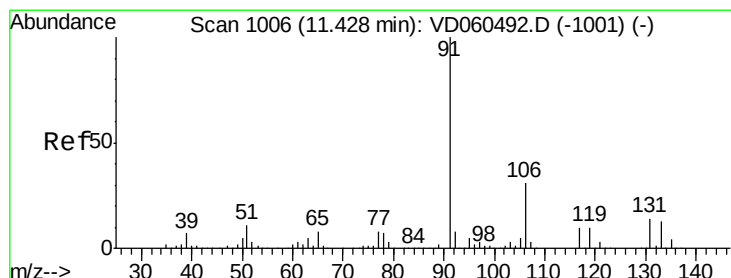
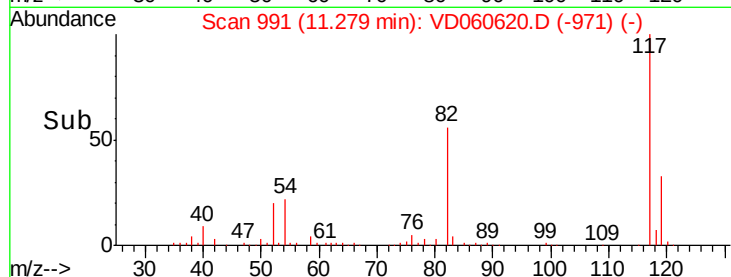
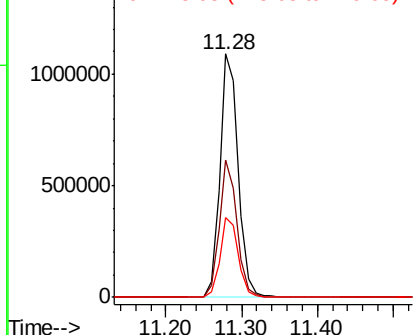
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. -0.00 min
Lab File: VD060620.D
Acq: 18 Dec 2018 14:45

Instrument :
MSVOA_D
ClientSampleId :
OR-03-121718

Tot Ion:117 Resp: 1839765
Ion Ratio Lower Upper
117 100
82 56.4 45.2 67.8
119 32.8 26.1 39.1

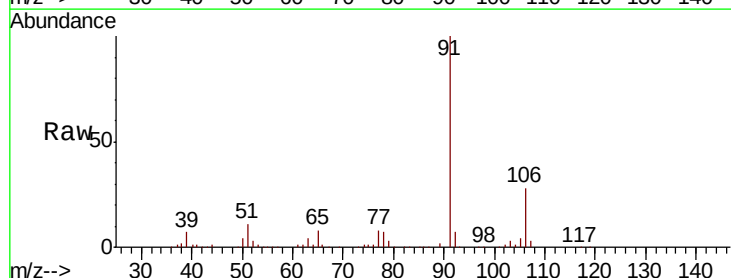


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

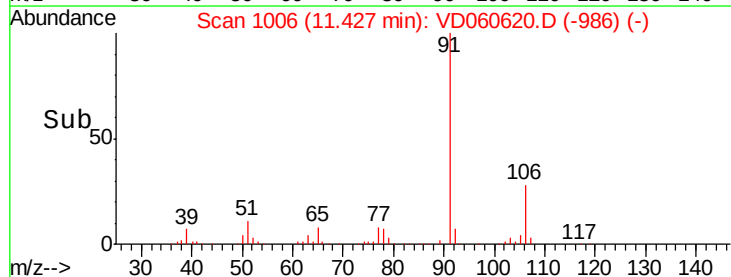
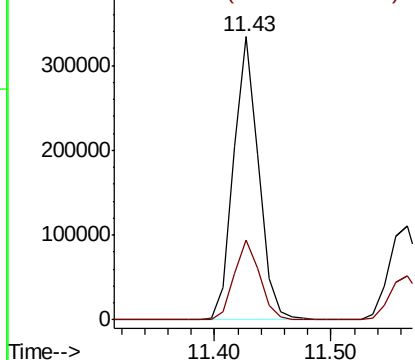


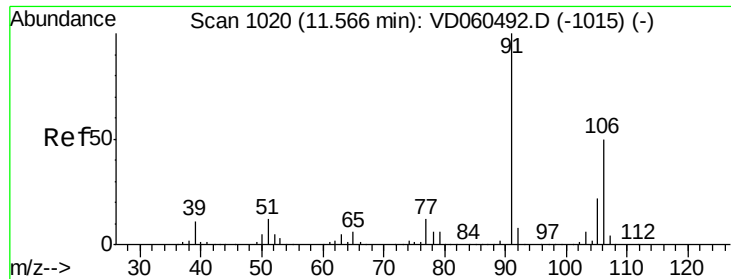
#67
Ethyl Benzene
Concen: 7.485 ug/l
RT: 11.43 min Scan# 1006
Delta R.T. -0.00 min
Lab File: VD060620.D
Acq: 18 Dec 2018 14:45

Tgt Ion: 91 Resp: 496898
Ion Ratio Lower Upper
91 100
106 28.0 24.6 37.0



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

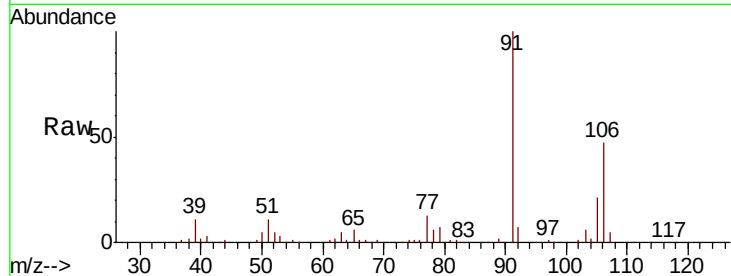




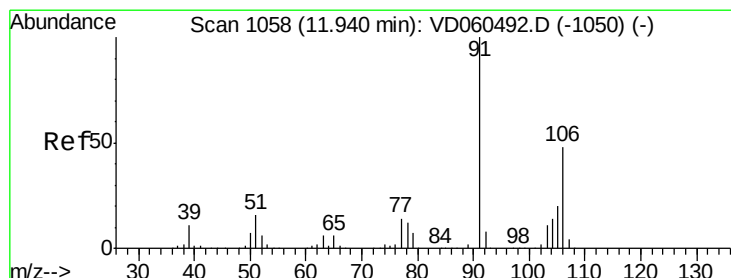
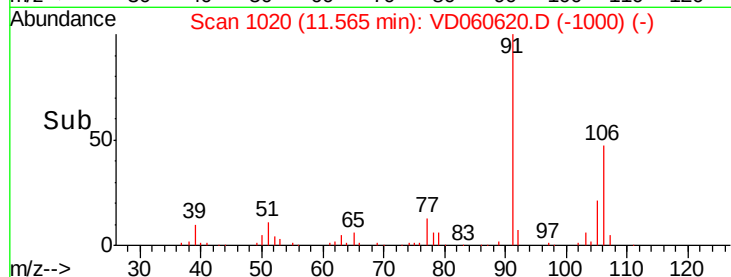
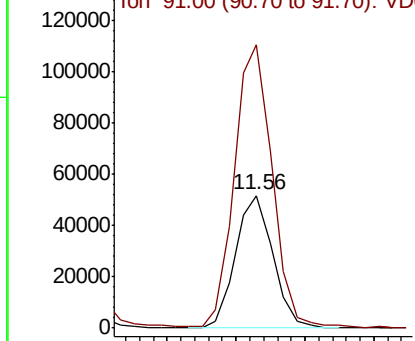
#68
m/p-Xylenes
Concen: 3.979 ug/l
RT: 11.56 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD060620.D
Acq: 18 Dec 2018 14:45

Instrument :
MSVOA_D
ClientSampleId :
OR-03-121718

Tot Ion:106 Resp: 97723
Ion Ratio Lower Upper
106 100
91 213.5 160.5 240.7

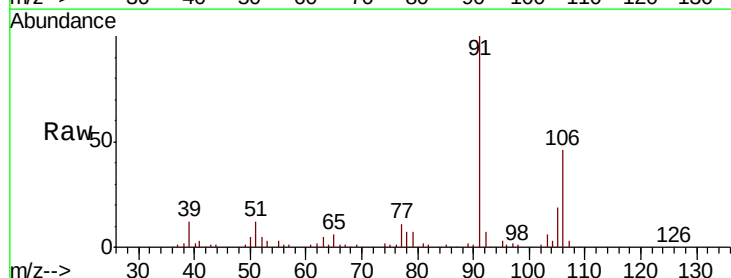


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

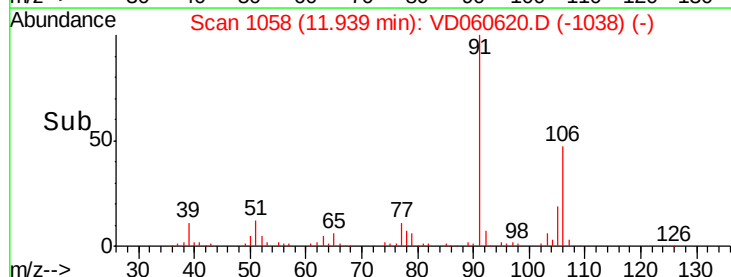
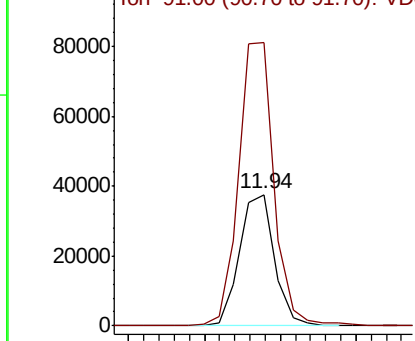


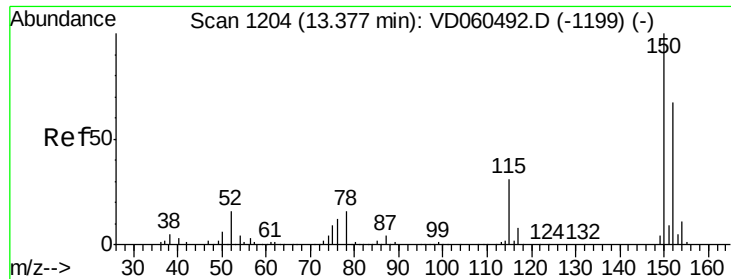
#69
o-Xylene
Concen: 2.564 ug/l
RT: 11.94 min Scan# 1058
Delta R.T. -0.00 min
Lab File: VD060620.D
Acq: 18 Dec 2018 14:45

Tgt Ion:106 Resp: 60003
Ion Ratio Lower Upper
106 100
91 215.5 103.4 310.1



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.38 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

OR-03-121718

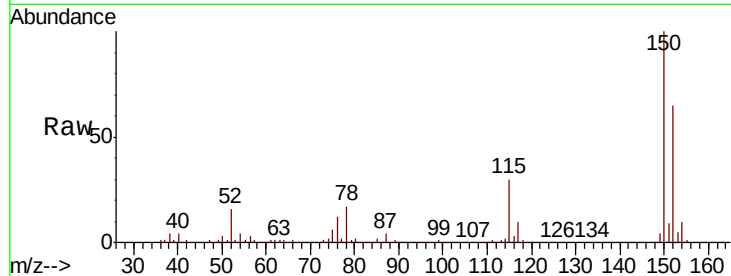
Tot Ion:152 Resp: 771800

Ion Ratio Lower Upper

152 100

115 46.8 24.6 74.0

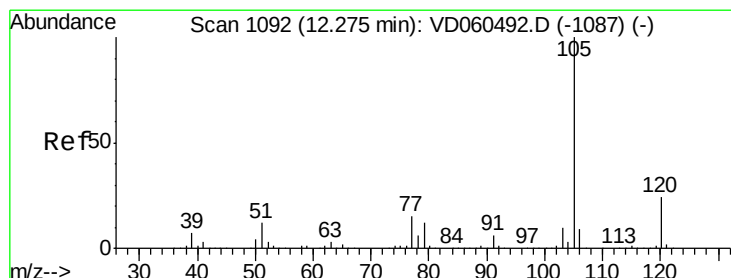
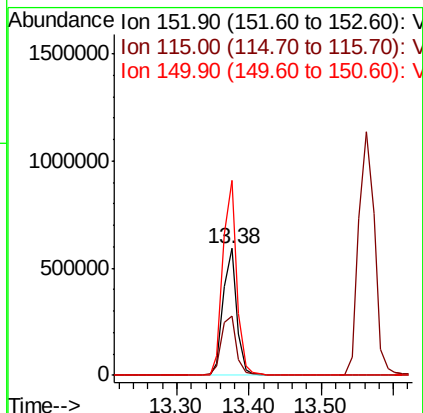
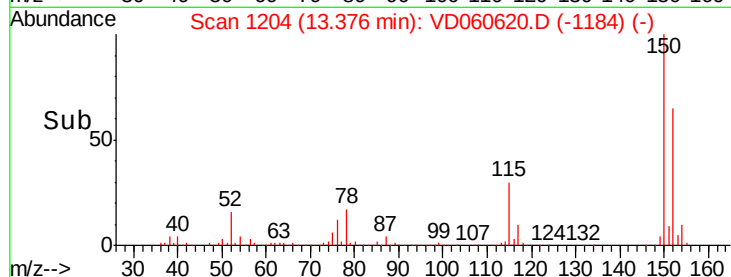
150 153.7 0.0 309.0



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



#73

Isopropylbenzene

Concen: 7.553 ug/l

RT: 12.27 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VD060620.D

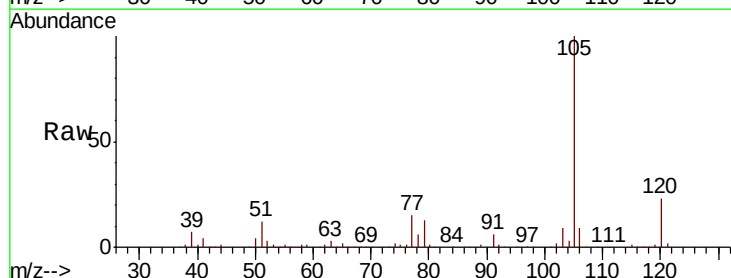
Acq: 18 Dec 2018 14:45

Tgt Ion:105 Resp: 412501

Ion Ratio Lower Upper

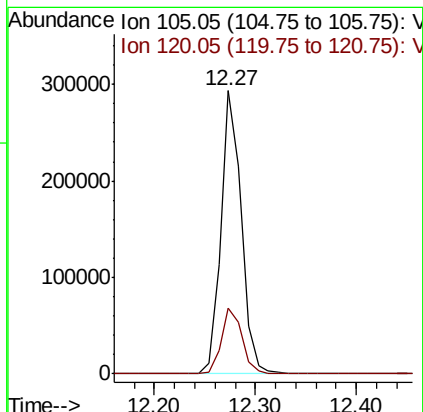
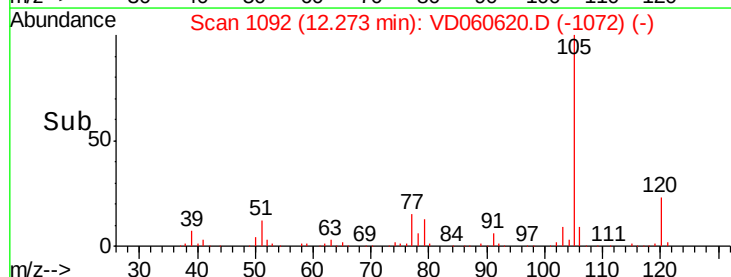
105 100

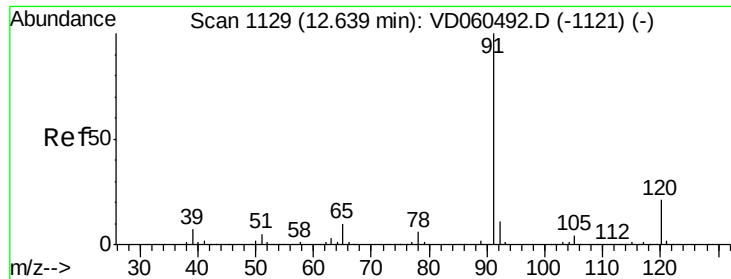
120 23.4 11.9 35.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 8.131 ug/l

RT: 12.64 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

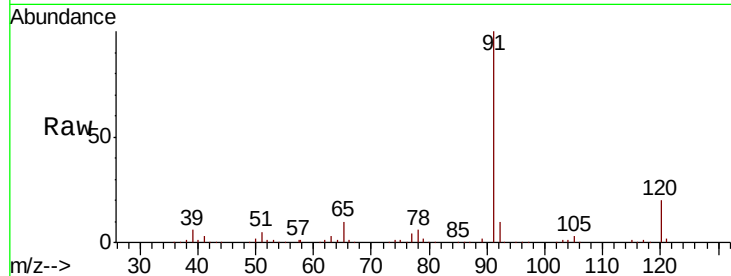
OR-03-121718

Tot Ion: 91 Resp: 561372

Ion Ratio Lower Upper

91 100

120 19.7 10.4 31.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

12.64

500000

400000

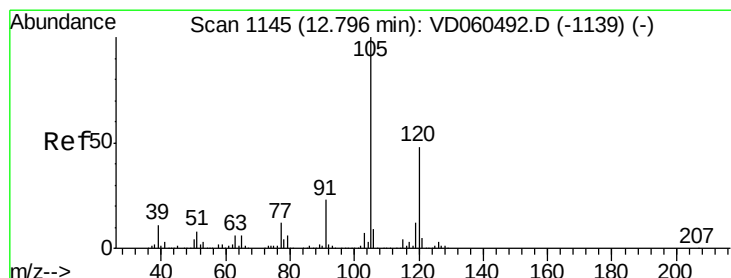
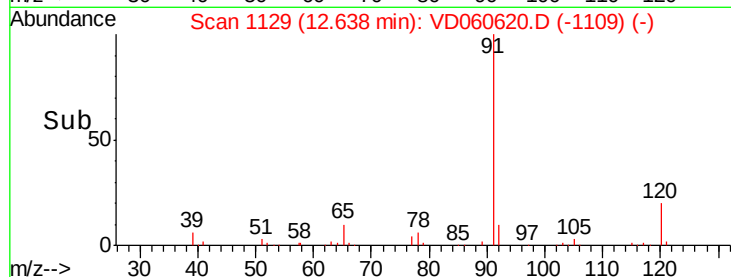
300000

200000

100000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 1.678 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VD060620.D

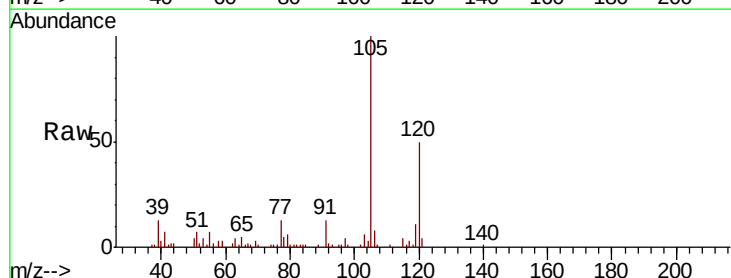
Acq: 18 Dec 2018 14:45

Tgt Ion: 105 Resp: 70025

Ion Ratio Lower Upper

105 100

120 50.1 24.2 72.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

300000

250000

200000

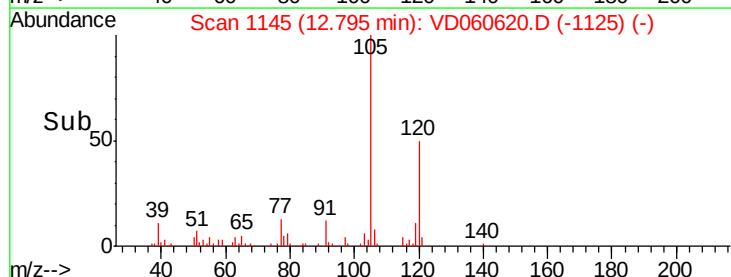
150000

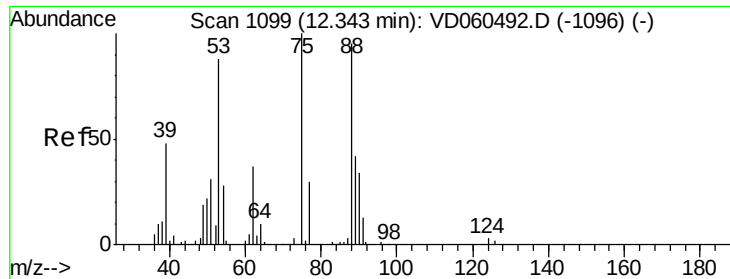
100000

50000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 101.054 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.08 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

OR-03-121718

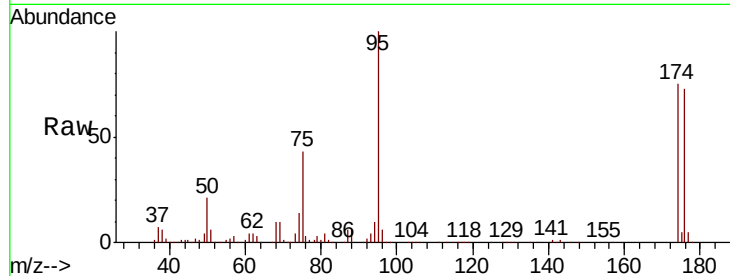
Tot Ion: 75 Resp: 246471

Ion Ratio Lower Upper

75 100

53 0.2 70.5 105.7#

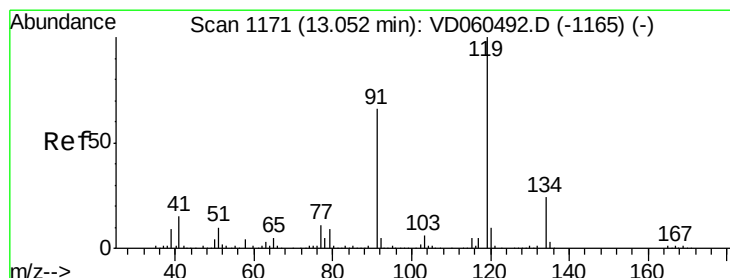
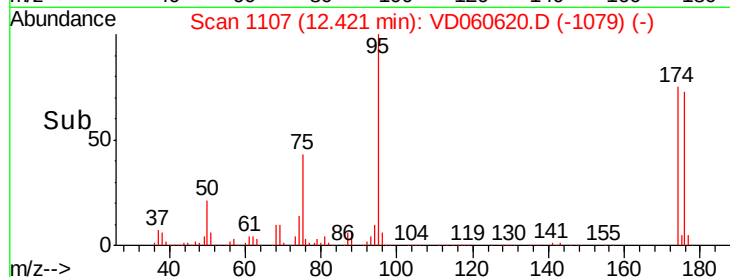
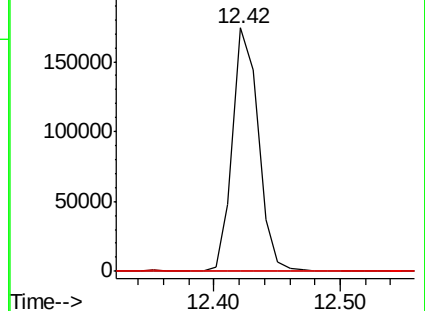
89 0.0 33.6 50.4#



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



#83

tert-Butylbenzene

Concen: 1.264 ug/l

RT: 13.09 min Scan# 1175

Delta R.T. 0.04 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

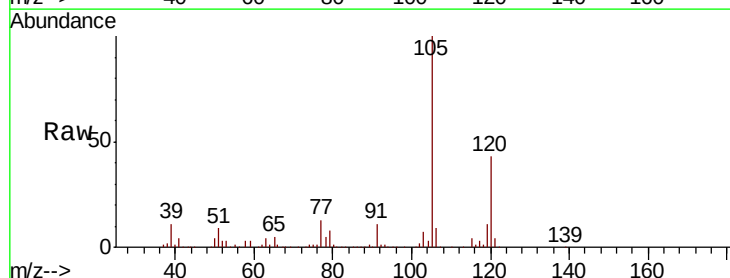
Tgt Ion: 119 Resp: 59135

Ion Ratio Lower Upper

119 100

91 96.6 33.1 99.2

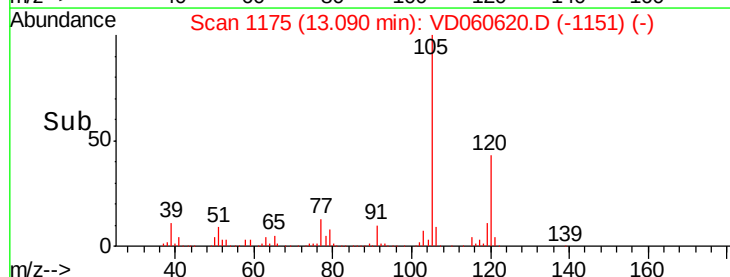
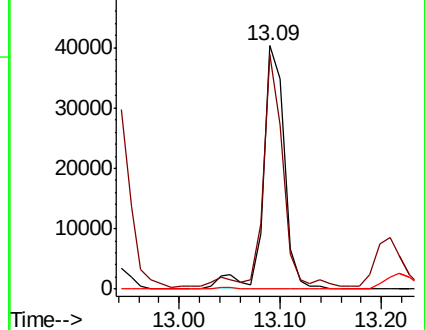
134 0.0 12.0 36.0#

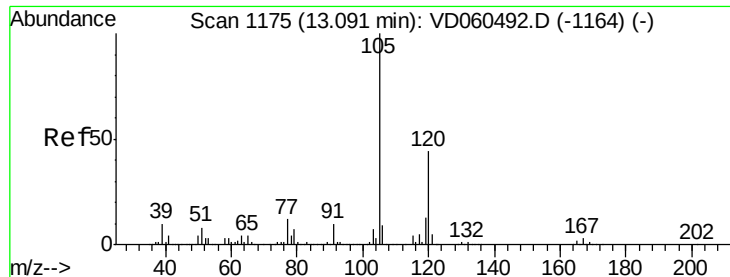


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): VDC

Ion 134.00 (133.70 to 134.70): V

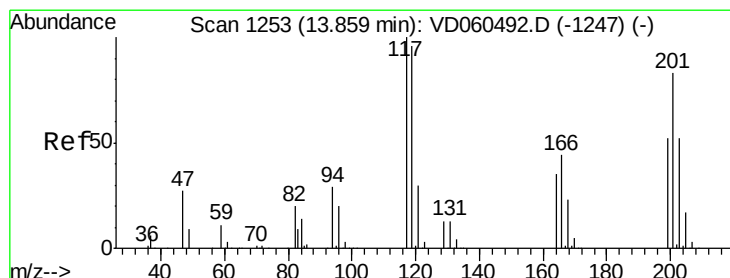
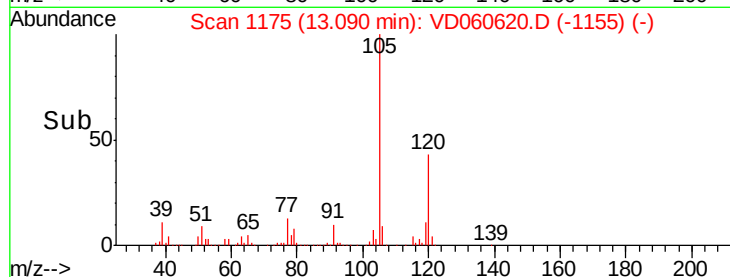
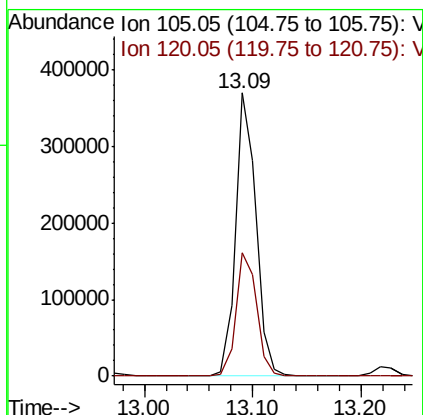
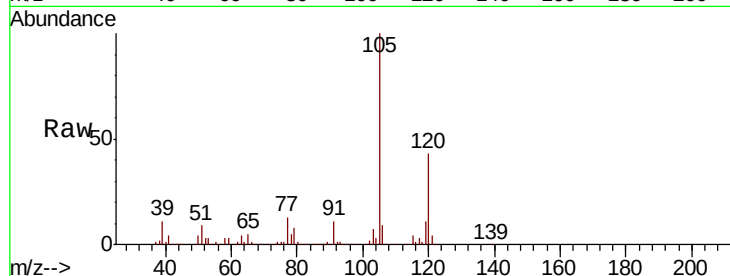




#84
 1,2,4-Trimethylbenzene
 Concen: 11.196 ug/l
 RT: 13.09 min Scan# 1175
 Delta R.T. -0.00 min
 Lab File: VD060620.D
 Acq: 18 Dec 2018 14:45

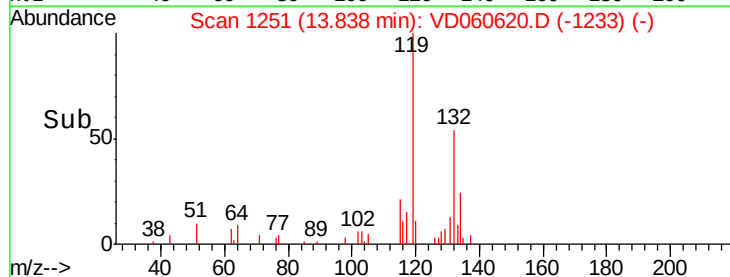
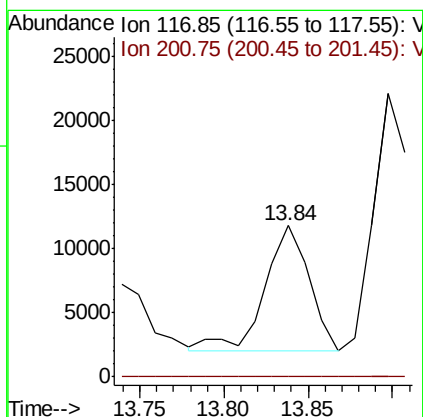
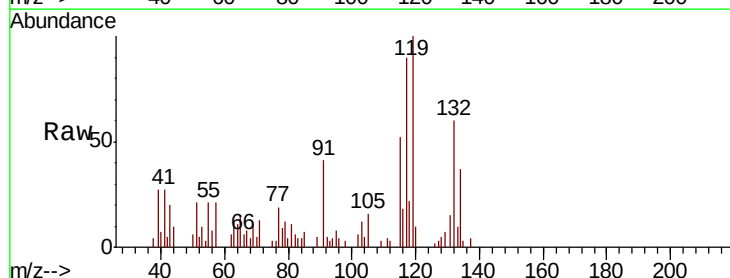
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-121718

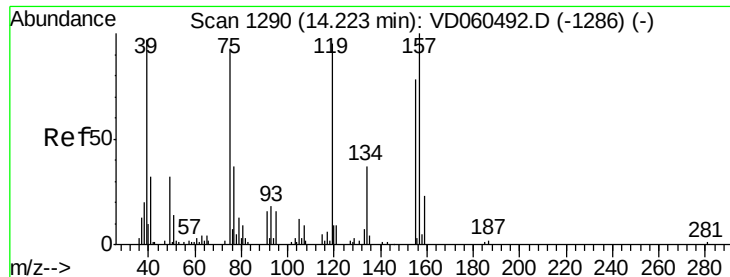
Tot Ion:105 Resp: 483792
 Ion Ratio Lower Upper
 105 100
 120 43.4 22.3 66.8



#90
 Hexachloroethane
 Concen: 1.533 ug/l
 RT: 13.84 min Scan# 1251
 Delta R.T. -0.02 min
 Lab File: VD060620.D
 Acq: 18 Dec 2018 14:45

Tgt Ion:117 Resp: 17771
 Ion Ratio Lower Upper
 117 100
 201 0.0 41.3 123.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.186 ug/l

RT: 14.23 min Scan# 1291

Delta R.T. 0.01 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

OR-03-121718

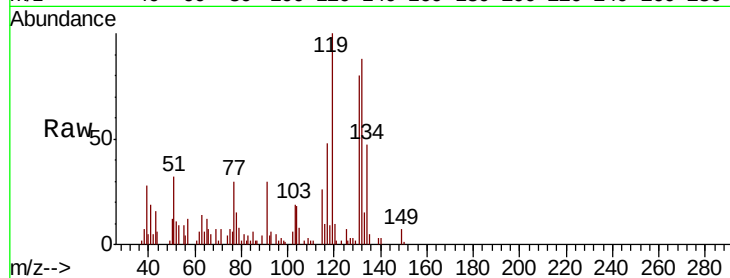
Tot Ion: 75 Resp: 2316

Ion Ratio Lower Upper

75 100

155 0.0 41.6 124.9#

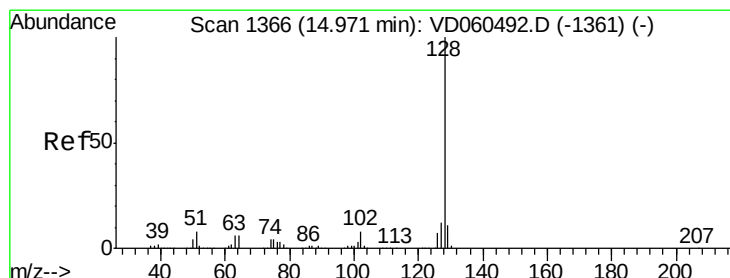
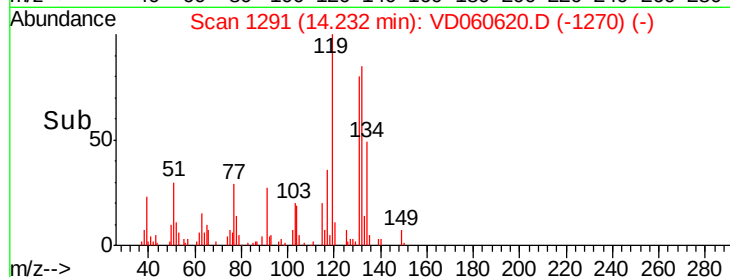
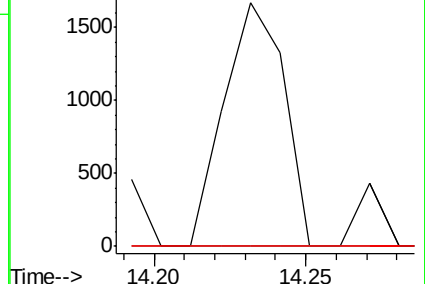
157 0.0 53.6 160.8#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#95

Naphthalene

Concen: 158.291 ug/l

RT: 14.97 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VD060620.D

Acq: 18 Dec 2018 14:45

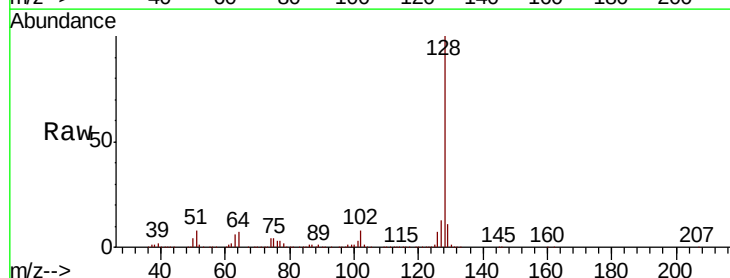
Tgt Ion: 128 Resp: 3126996

Ion Ratio Lower Upper

128 100

127 12.7 9.8 14.8

129 11.4 8.6 13.0



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

