

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD110420\
 Data File : VD067515.D
 Acq On : 04 Nov 2020 12:53
 Operator : VA/SY
 Sample : L4613-03
 Misc : 5.33G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 282

Quant Time: Nov 05 00:36:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110320S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	93066	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	150679	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	160108	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	81541	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	65558	80.56	ug/l	0.00
Spiked Amount			Recovery	=	161.12%	
35) Dibromofluoromethane	7.92	113	42944	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
50) Toluene-d8	10.34	98	178285	55.88	ug/l	0.00
Spiked Amount			Recovery	=	111.76%	
62) 4-Bromofluorobenzene	12.64	95	68612	62.29	ug/l	0.00
Spiked Amount			Recovery	=	124.58%	

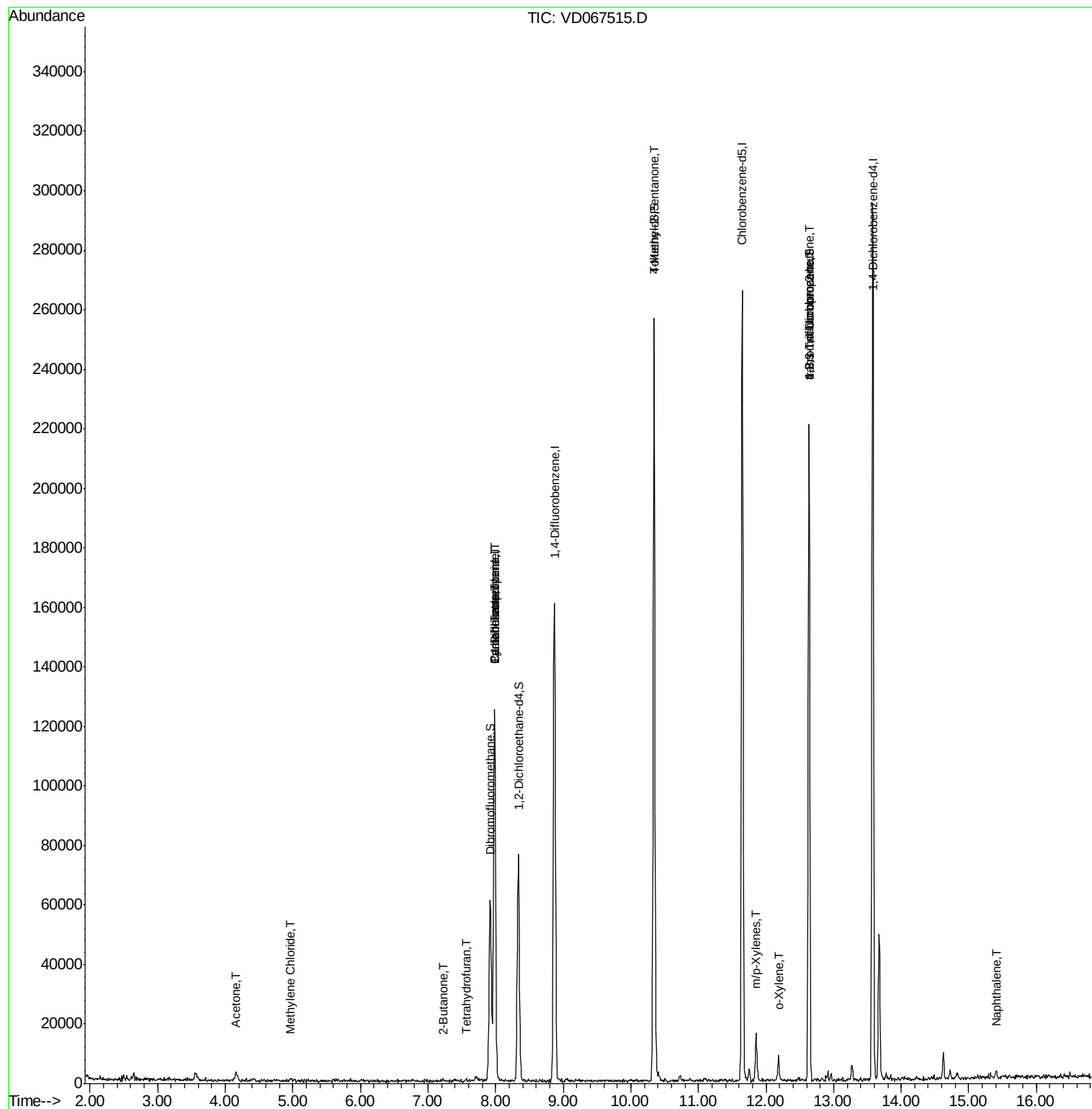
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.23	59	62	Below Cal	#	79
16) Acetone	4.16	43	5490	45.083	ug/l	97
20) Methylene Chloride	4.96	84	902	1.049	ug/l #	61
25) 2-Butanone	7.24	43	212	1.629	ug/l #	42
29) Tetrahydrofuran	7.57	42	357	4.580	ug/l #	35
31) Cyclohexane	7.99	56	1949	1.651	ug/l #	23
36) 1,1-Dichloropropene	7.99	75	6498	5.038	ug/l #	47
38) Carbon Tetrachloride	7.98	117	9030	5.389	ug/l #	21
51) 4-Methyl-2-Pentanone	10.35	43	565	1.784	ug/l #	1
68) m/p-Xylenes	11.86	106	4990	2.430	ug/l	98
69) o-Xylene	12.18	106	2815	1.536	ug/l	76
76) 1,2,3-Trichloropropane	12.64	75	35439	72.045	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	35439	146.270	ug/l #	10
95) Naphthalene	15.41	128	3376	1.508	ug/l #	76

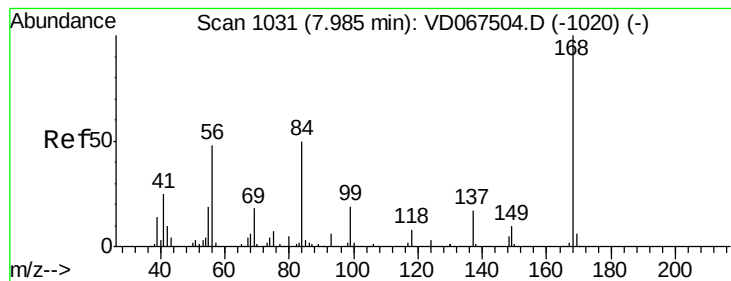
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067515.D

Acq: 04 Nov 2020 12:53

Instrument :

MSVOA_D

ClientSampleId :

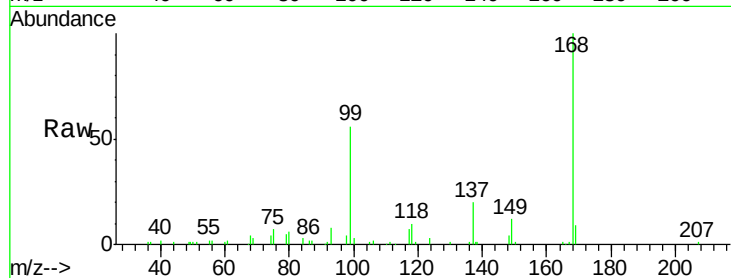
282

Tot Ion:168 Resp: 93066

Ion Ratio Lower Upper

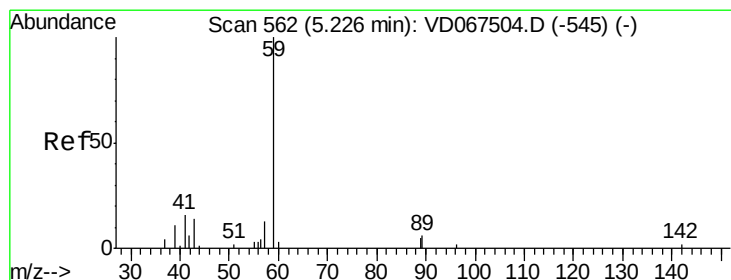
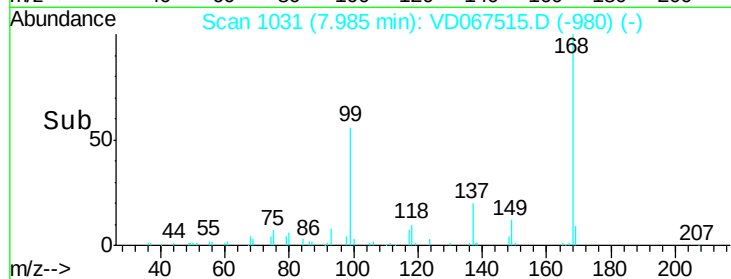
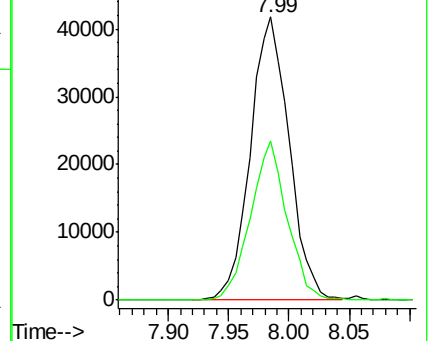
168 100

99 56.4 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 562

Delta R.T. 0.00 min

Lab File: VD067515.D

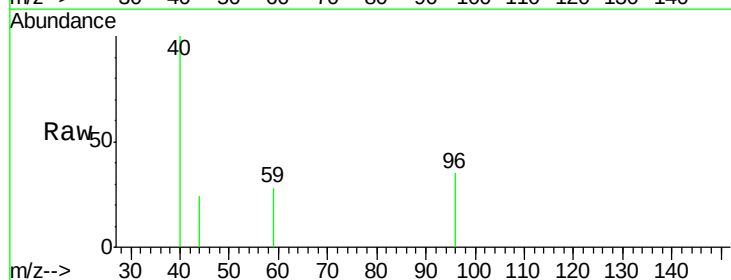
Acq: 04 Nov 2020 12:53

Tgt Ion: 59 Resp: 62

Ion Ratio Lower Upper

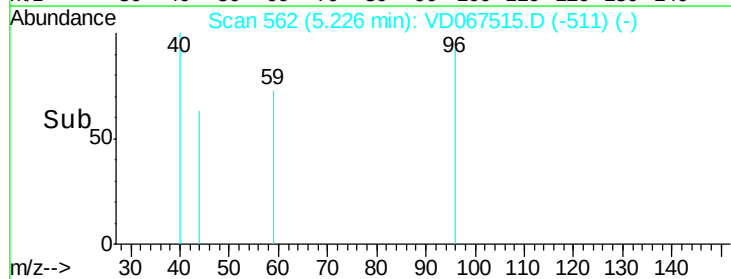
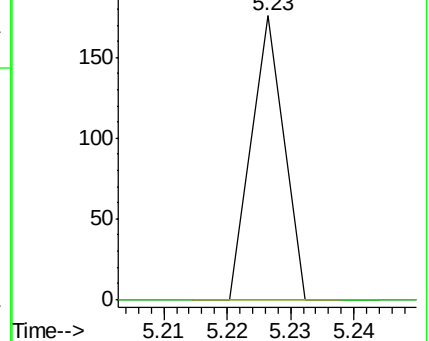
59 100

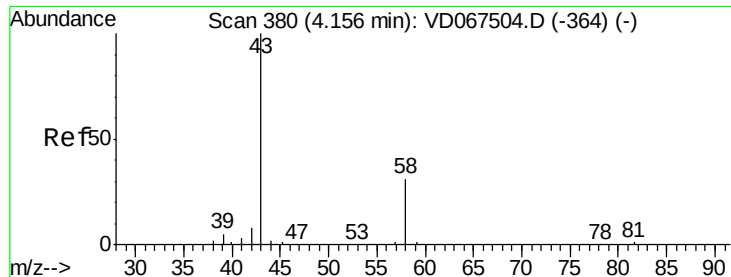
57 0.0 5.9 8.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 45.083 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067515.D

Acq: 04 Nov 2020 12:53

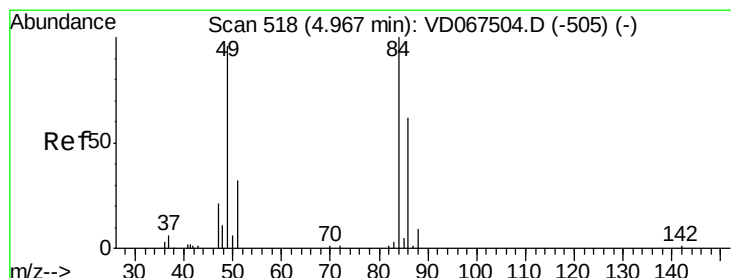
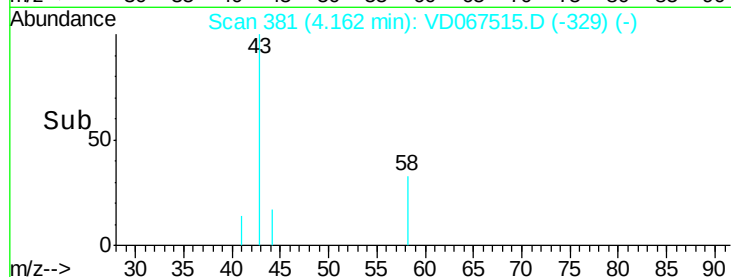
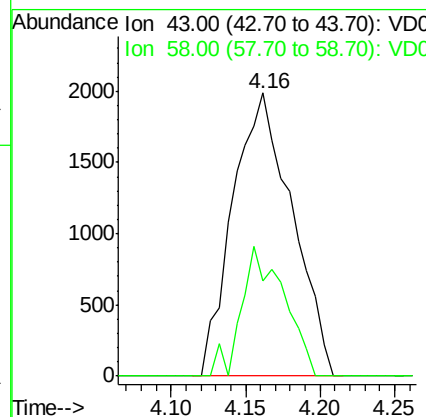
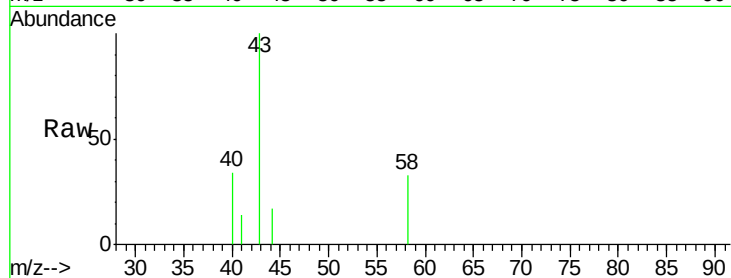
Instrument :
MSVOA_D
ClientSampled :
282

Tot Ion: 43 Resp: 5490

Ion Ratio Lower Upper

43 100

58 33.4 25.2 37.8



#20

Methylene Chloride

Concen: 1.049 ug/l

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD067515.D

Acq: 04 Nov 2020 12:53

Tgt Ion: 84 Resp: 902

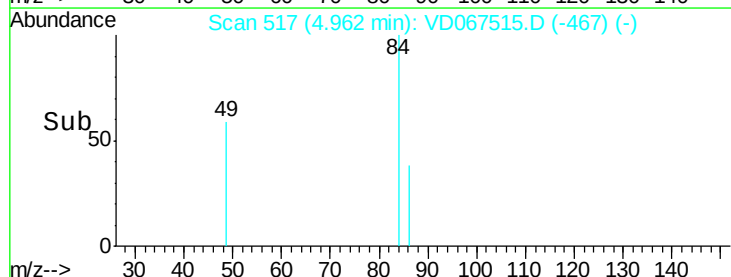
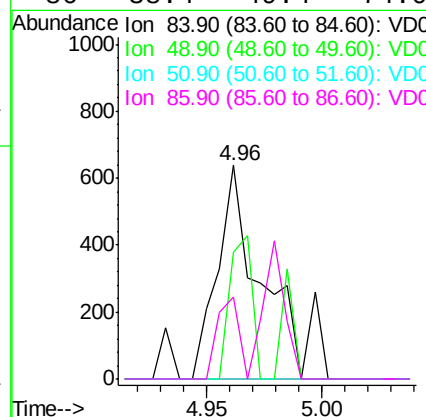
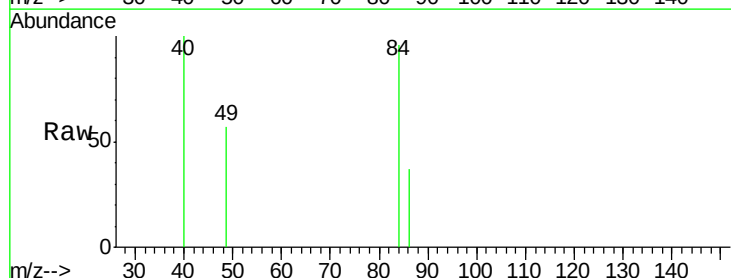
Ion Ratio Lower Upper

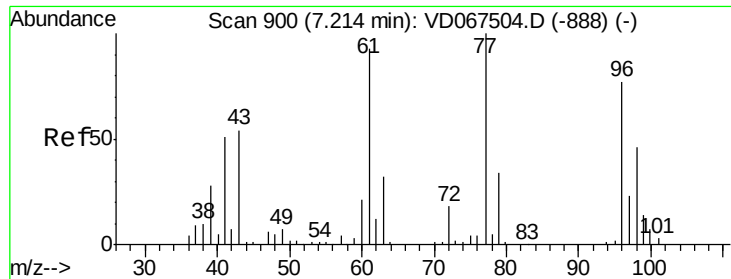
84 100

49 59.2 77.0 115.4#

51 0.0 25.4 38.2#

86 38.4 49.4 74.0#

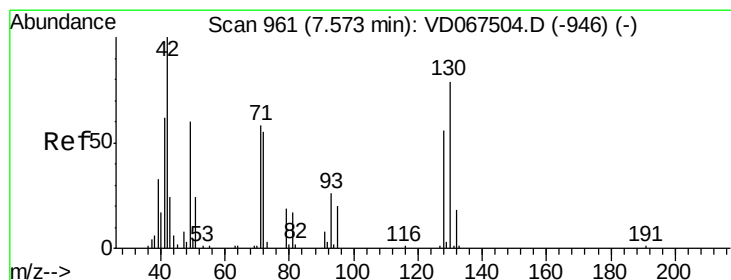
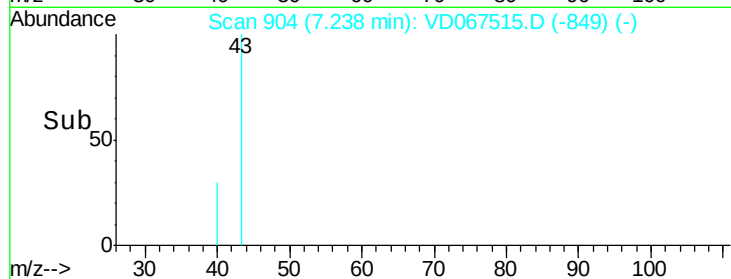
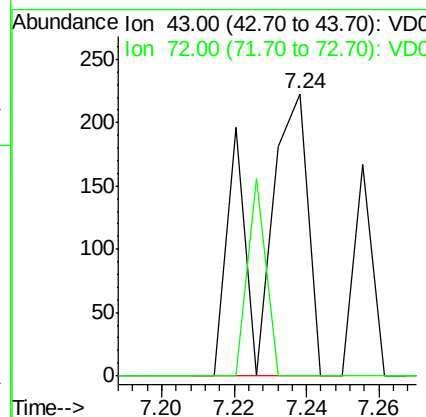
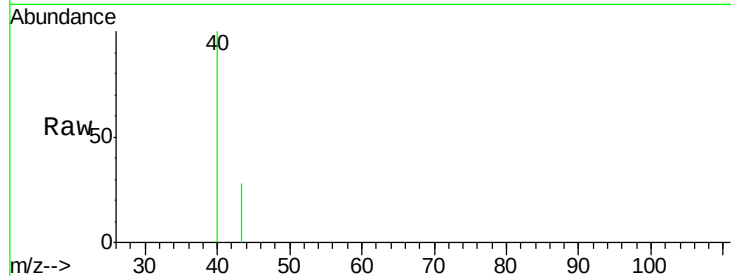




#25
 2-Butanone
 Concen: 1.629 ug/l
 RT: 7.24 min Scan# 904
 Delta R.T. 0.02 min
 Lab File: VD067515.D
 Acq: 04 Nov 2020 12:53

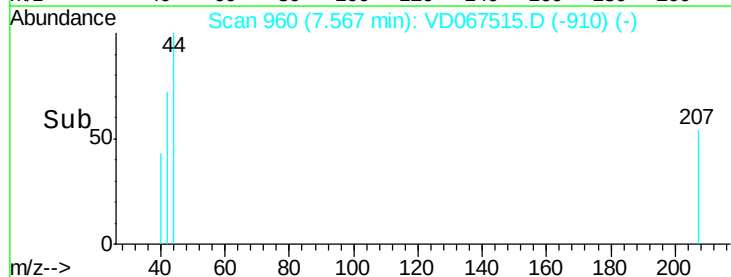
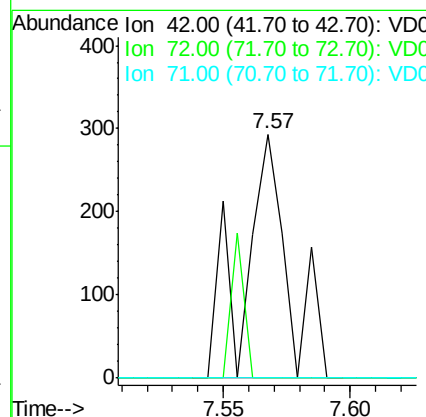
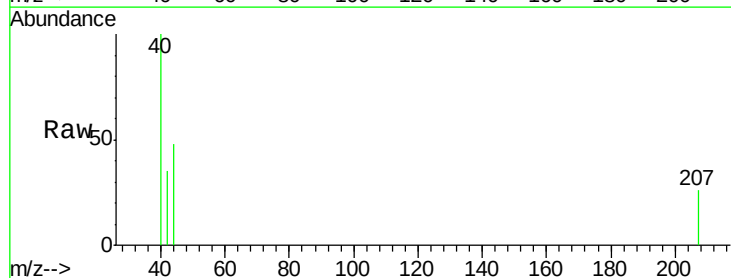
Instrument :
 MSVOA_D
 ClientSampleId :
 282

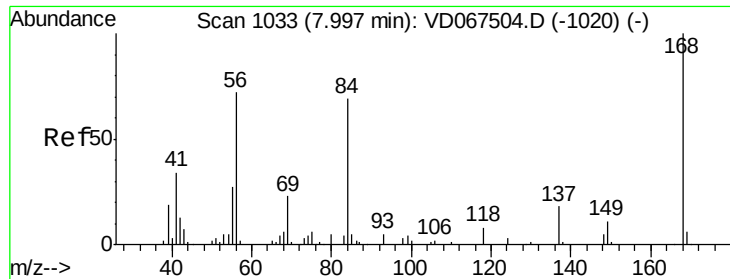
Tot Ion: 43 Resp: 212
 Ion Ratio Lower Upper
 43 100
 72 0.0 26.4 39.6#



#29
 Tetrahydrofuran
 Concen: 4.580 ug/l
 RT: 7.57 min Scan# 960
 Delta R.T. -0.01 min
 Lab File: VD067515.D
 Acq: 04 Nov 2020 12:53

Tgt Ion: 42 Resp: 357
 Ion Ratio Lower Upper
 42 100
 72 17.1 46.3 69.5#
 71 0.0 44.0 66.0#

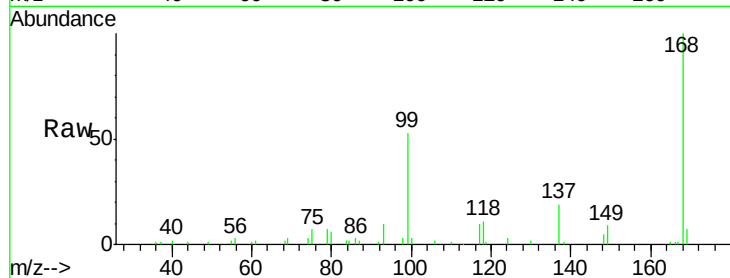




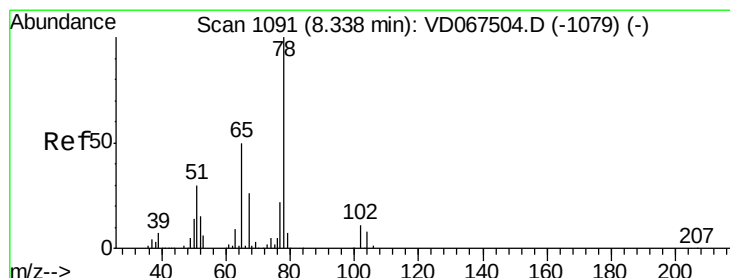
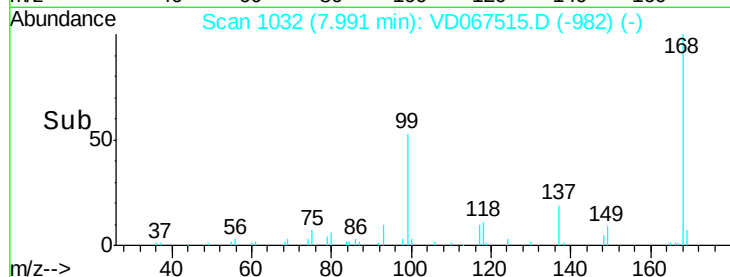
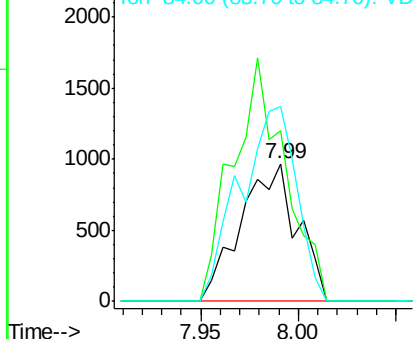
#31
Cyclohexane
Concen: 1.651 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. -0.01 min
Lab File: VD067515.D
Acq: 04 Nov 2020 12:53

Instrument :
MSVOA_D
ClientSampleId :
282

Tot Ion: 56 Resp: 1949
Ion Ratio Lower Upper
56 100
69 124.0 25.9 38.9#
84 142.0 76.2 114.4#

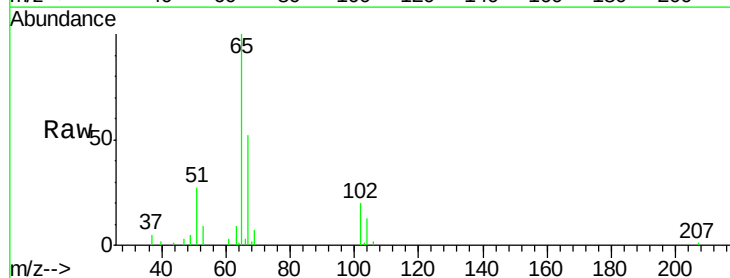


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

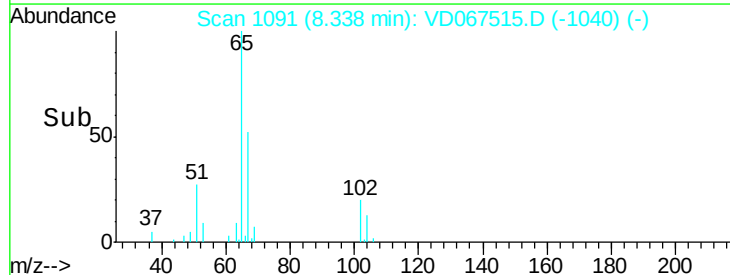
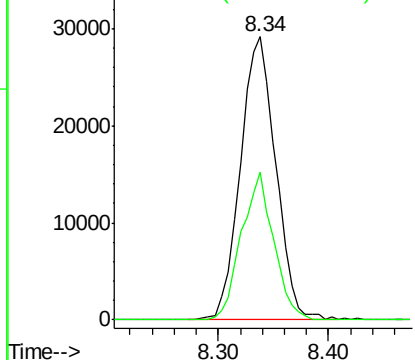


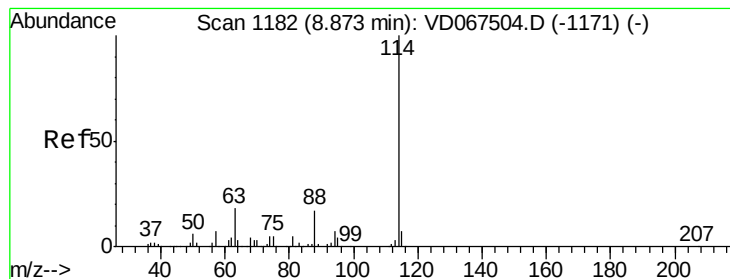
#33
1,2-Dichloroethane-d4
Concen: 80.562 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD067515.D
Acq: 04 Nov 2020 12:53

Tgt Ion: 65 Resp: 65558
Ion Ratio Lower Upper
65 100
67 47.5 0.0 99.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VD067515.D

Acq: 04 Nov 2020 12:53

Instrument :

MSVOA_D

ClientSampleId :

282

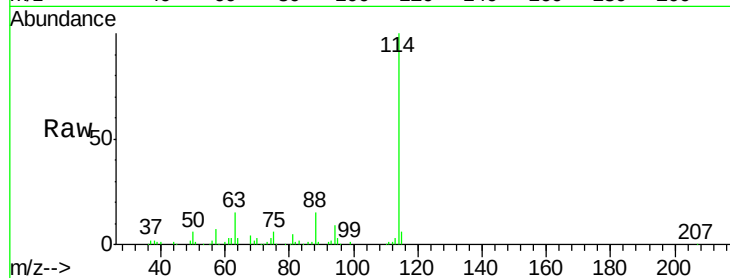
Tot Ion:114 Resp: 150679

Ion Ratio Lower Upper

114 100

63 15.0 0.0 35.0

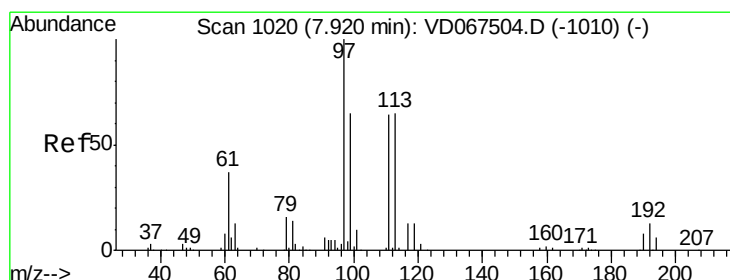
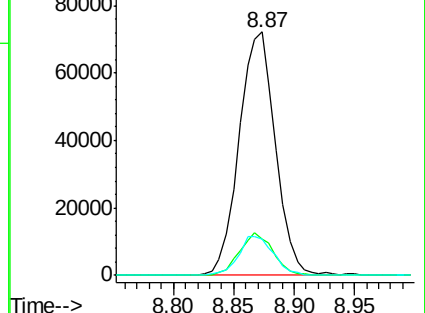
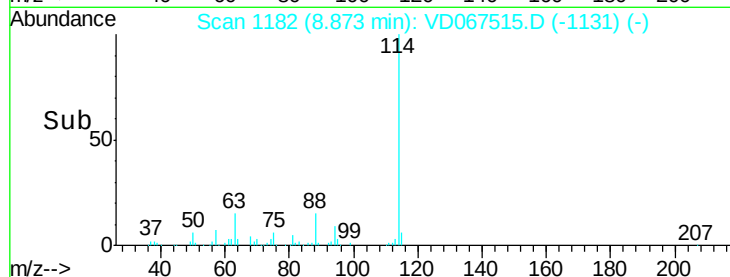
88 14.8 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 47.304 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067515.D

Acq: 04 Nov 2020 12:53

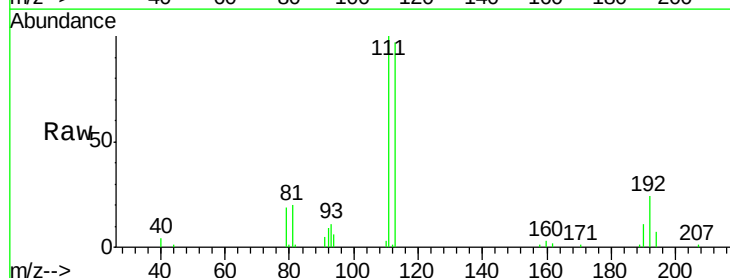
Tgt Ion:113 Resp: 42944

Ion Ratio Lower Upper

113 100

111 104.9 80.0 120.0

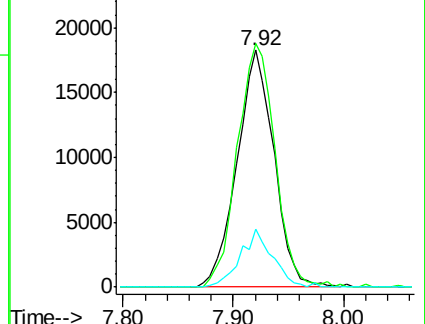
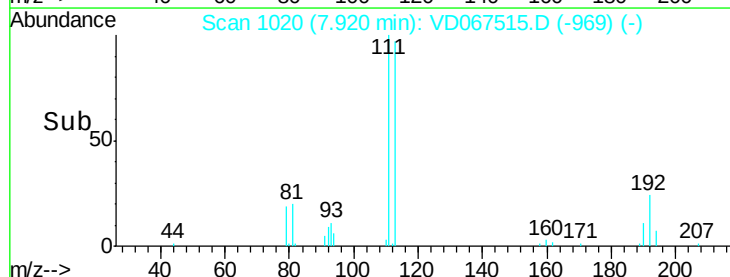
192 20.9 16.3 24.5

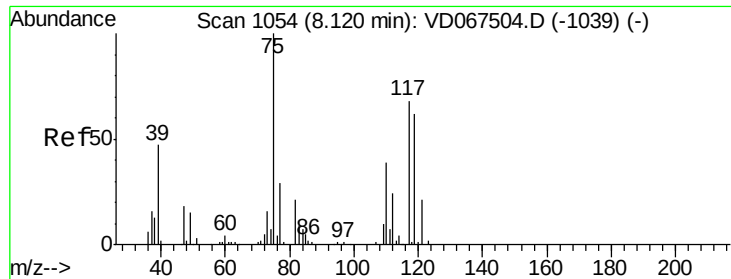


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

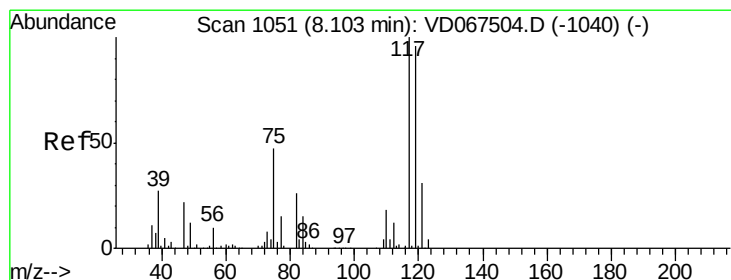
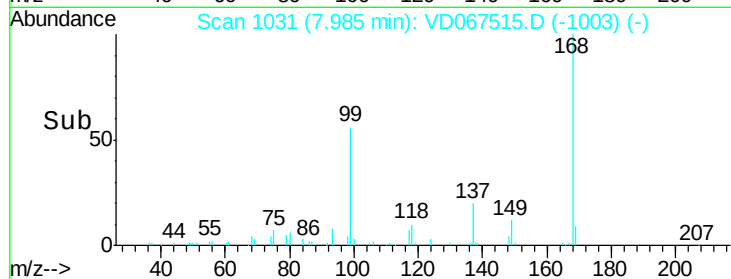
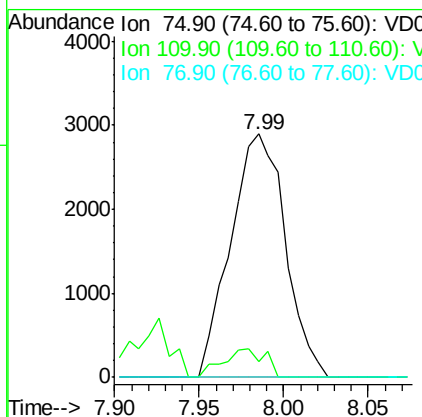
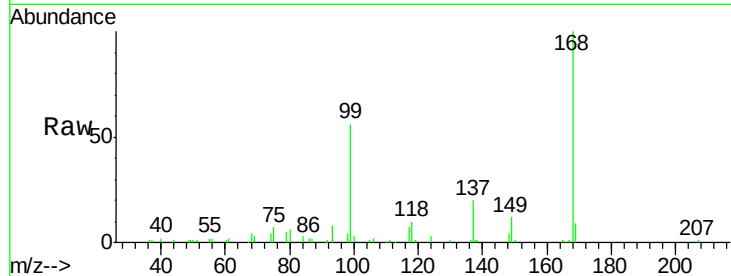




#36
 1,1-Dichloropropene
 Concen: 5.038 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.14 min
 Lab File: VD067515.D
 Acq: 04 Nov 2020 12:53

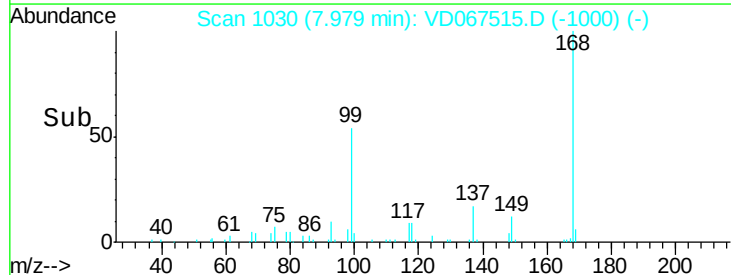
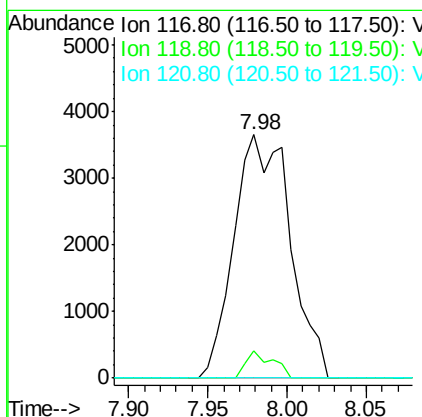
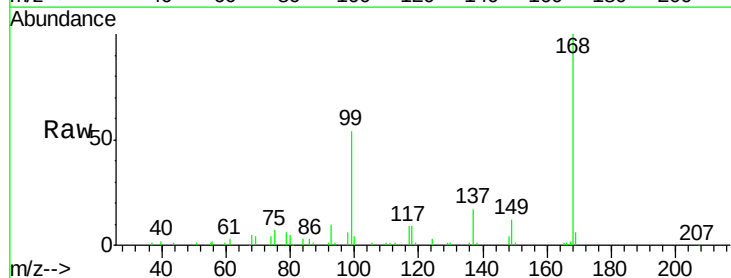
Instrument :
 MSVOA_D
 ClientSampleId :
 282

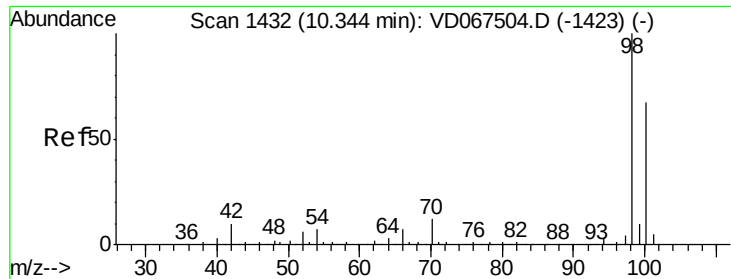
Tot Ion: 75 Resp: 6498
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.9 59.7#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 5.389 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD067515.D
 Acq: 04 Nov 2020 12:53

Tgt Ion: 117 Resp: 9030
 Ion Ratio Lower Upper
 117 100
 119 11.2 76.9 115.3#
 121 0.0 24.5 36.7#





#50

Toluene-d8

Concen: 55.883 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067515.D

Acq: 04 Nov 2020 12:53

Instrument :

MSVOA_D

ClientSampled :

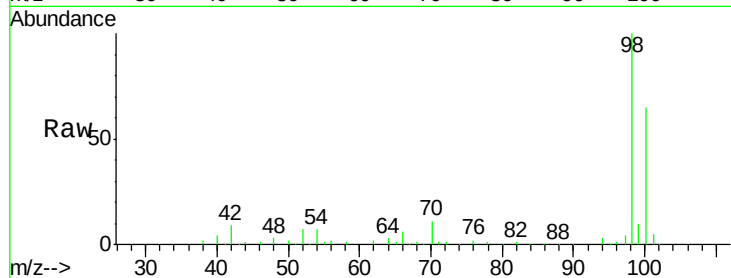
282

Tot Ion: 98 Resp: 178285

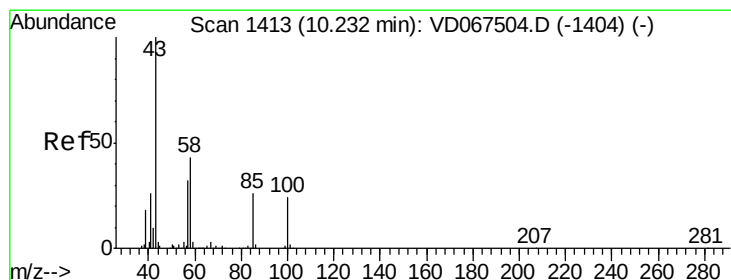
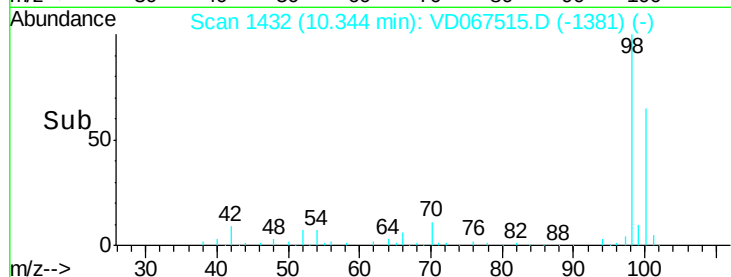
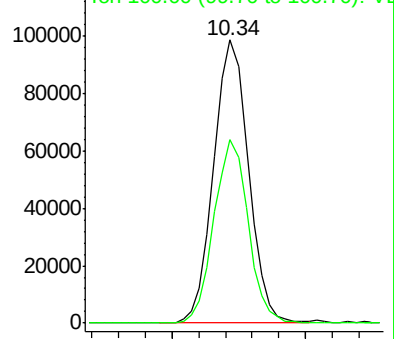
Ion Ratio Lower Upper

98 100

100 63.6 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.784 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.12 min

Lab File: VD067515.D

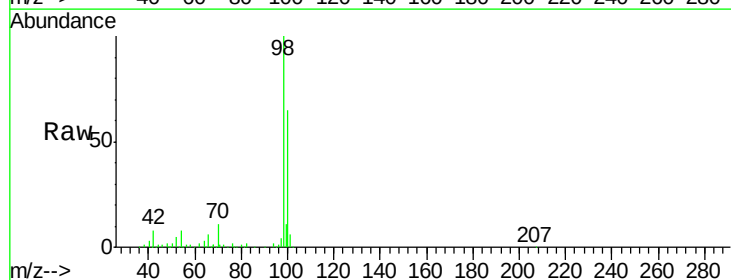
Acq: 04 Nov 2020 12:53

Tgt Ion: 43 Resp: 565

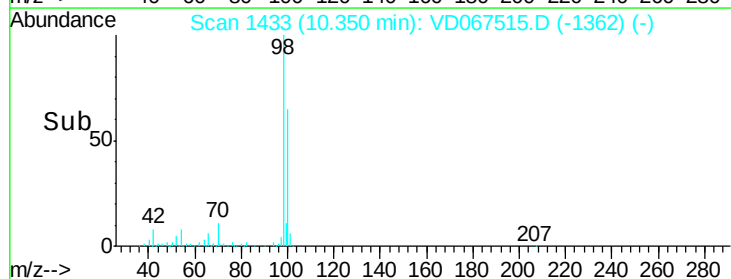
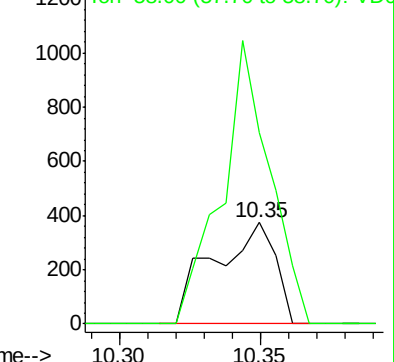
Ion Ratio Lower Upper

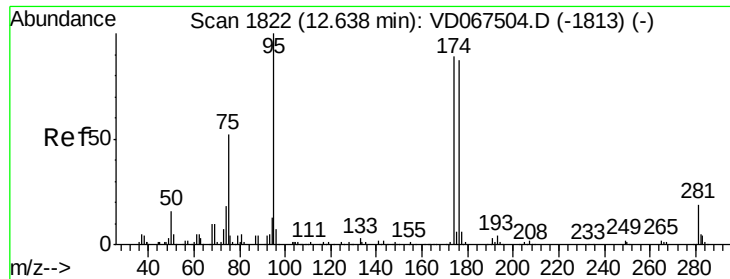
43 100

58 218.9 35.6 53.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

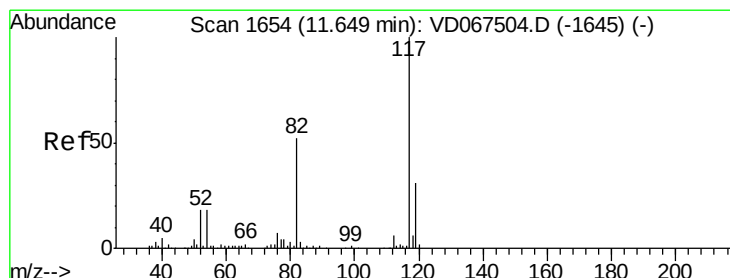
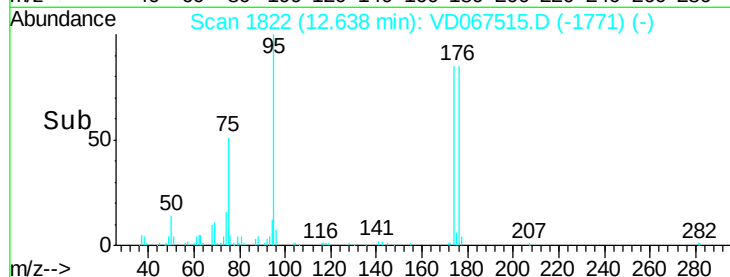
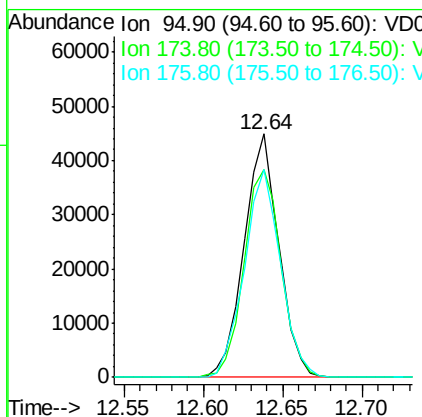
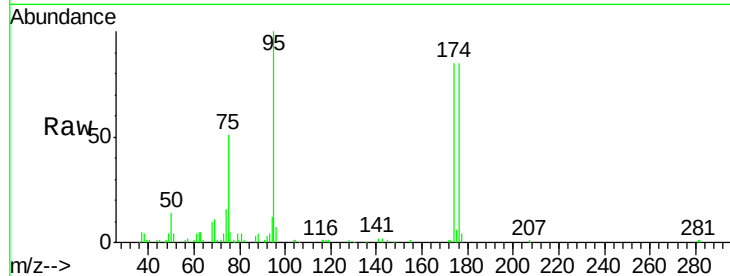




#62
4-Bromofluorobenzene
Concen: 62.292 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067515.D
Acq: 04 Nov 2020 12:53

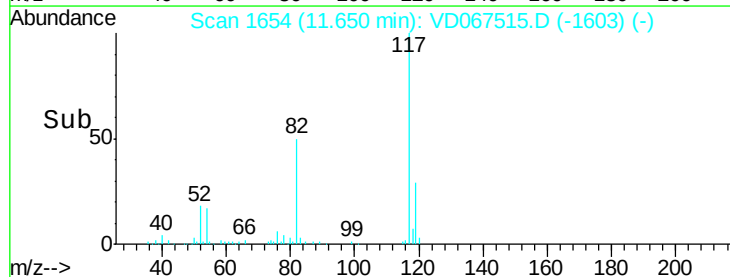
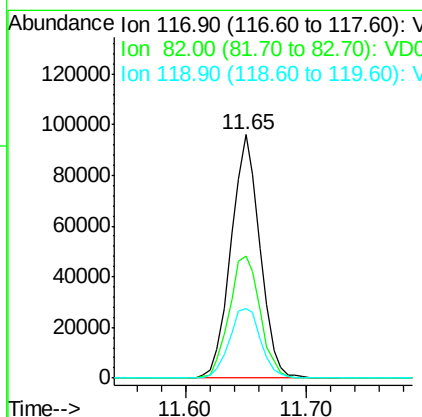
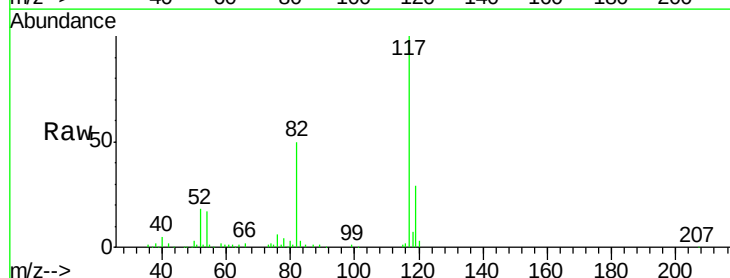
Instrument :
MSVOA_D
ClientSampleId :
282

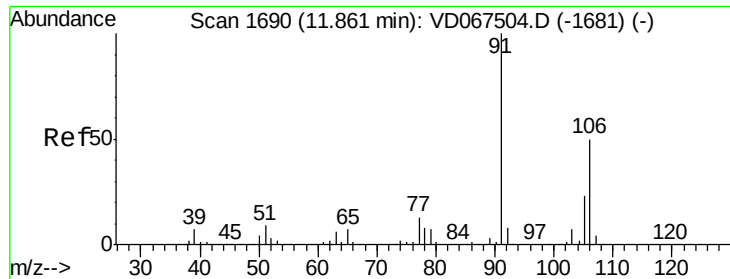
Tot Ion: 95 Resp: 68612
Ion Ratio Lower Upper
95 100
174 90.6 0.0 177.8
176 88.6 0.0 172.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067515.D
Acq: 04 Nov 2020 12:53

Tgt Ion: 117 Resp: 160108
Ion Ratio Lower Upper
117 100
82 49.9 41.6 62.4
119 28.5 25.1 37.7

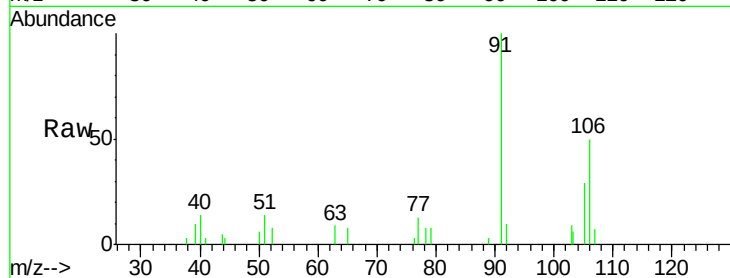




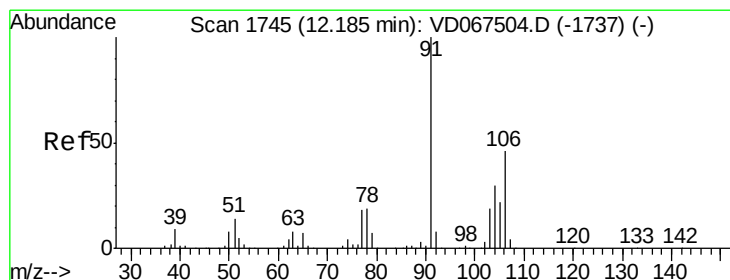
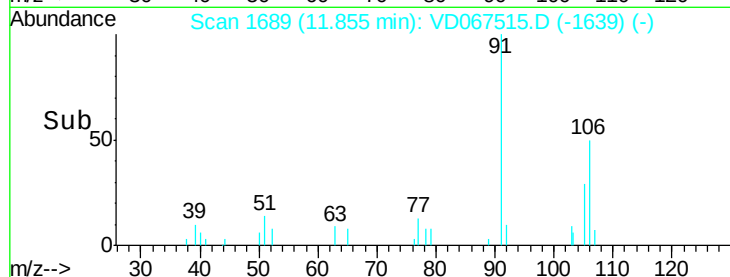
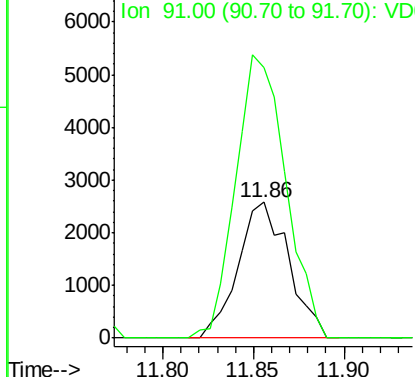
#68
m/p-Xylenes
Concen: 2.430 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VD067515.D
Acq: 04 Nov 2020 12:53

Instrument :
MSVOA_D
ClientSampleId :
282

Tot Ion:106 Resp: 4990
Ion Ratio Lower Upper
106 100
91 207.0 162.6 244.0

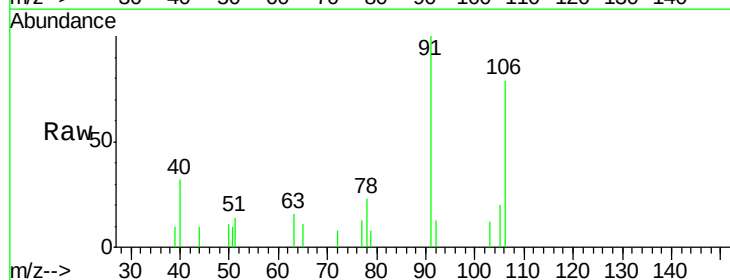


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VDC

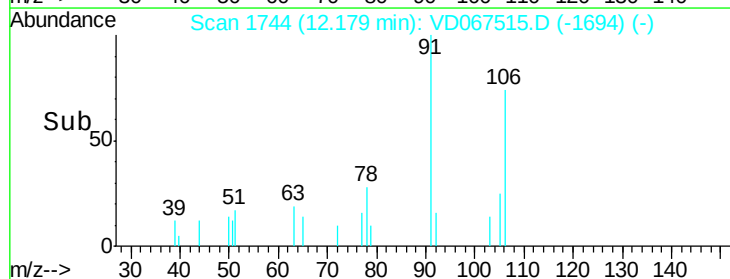
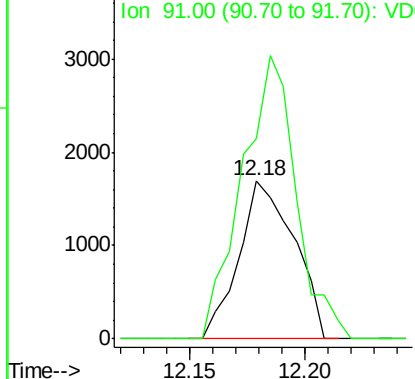


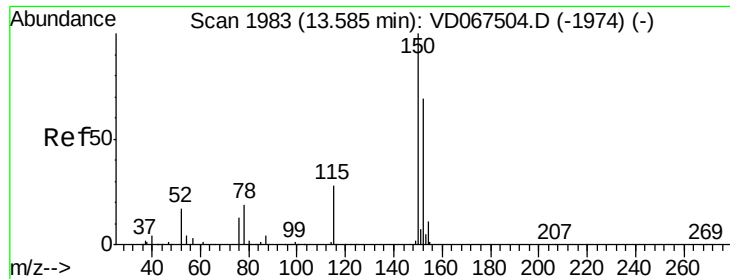
#69
o-Xylene
Concen: 1.536 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. -0.01 min
Lab File: VD067515.D
Acq: 04 Nov 2020 12:53

Tgt Ion:106 Resp: 2815
Ion Ratio Lower Upper
106 100
91 176.1 107.1 321.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VDC

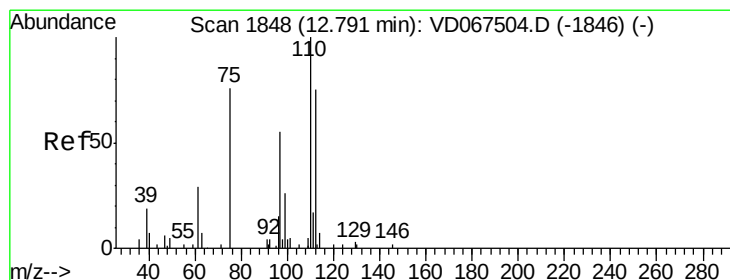
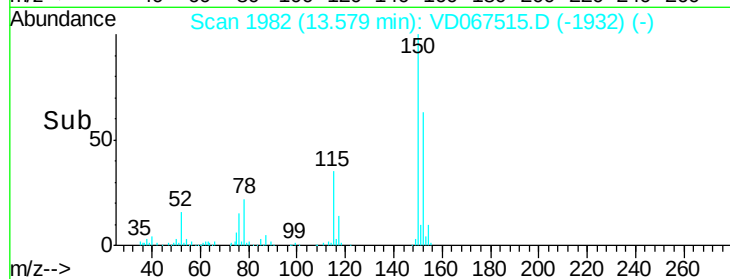
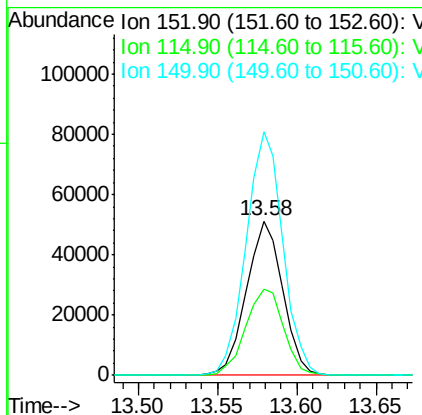
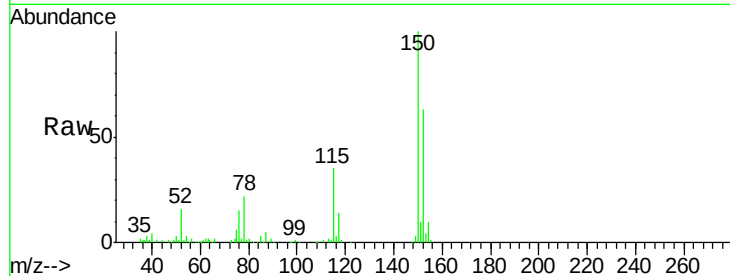




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.58 min Scan# 1982
 Delta R.T. -0.01 min
 Lab File: VD067515.D
 Acq: 04 Nov 2020 12:53

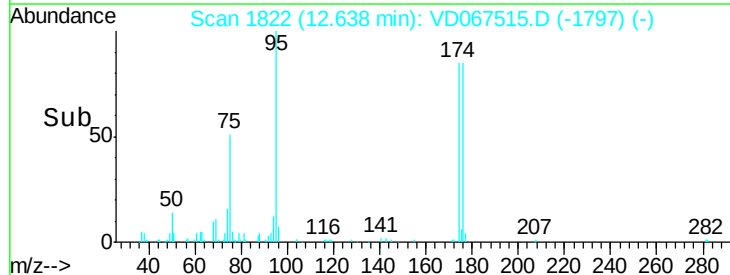
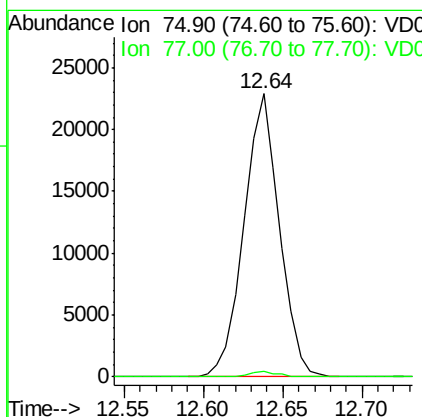
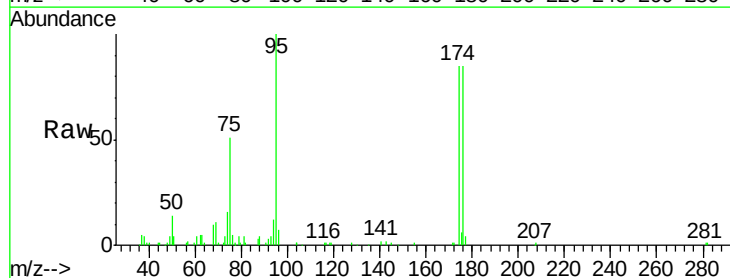
Instrument :
 MSVOA_D
 ClientSampleId :
 282

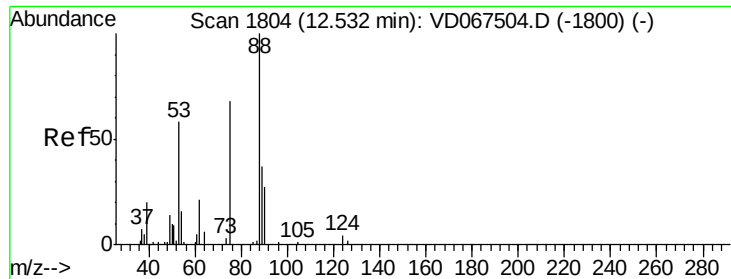
Tot Ion:152 Resp: 81541
 Ion Ratio Lower Upper
 152 100
 115 58.5 29.3 88.0
 150 159.4 0.0 338.2



#76
 1,2,3-Trichloropropane
 Concen: 72.045 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD067515.D
 Acq: 04 Nov 2020 12:53

Tgt Ion: 75 Resp: 35439
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 146.270 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067515.D

Acq: 04 Nov 2020 12:53

Instrument :

MSVOA_D

ClientSampleId :

282

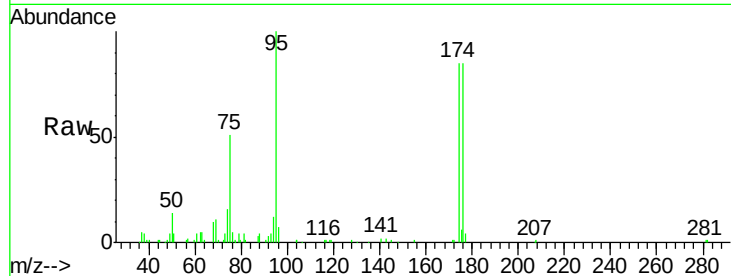
Tot Ion: 75 Resp: 35439

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

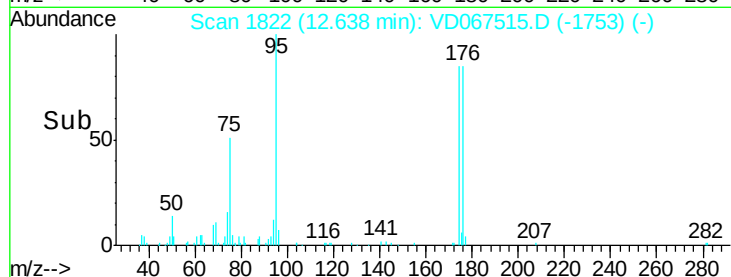
89 0.0 44.6 67.0#



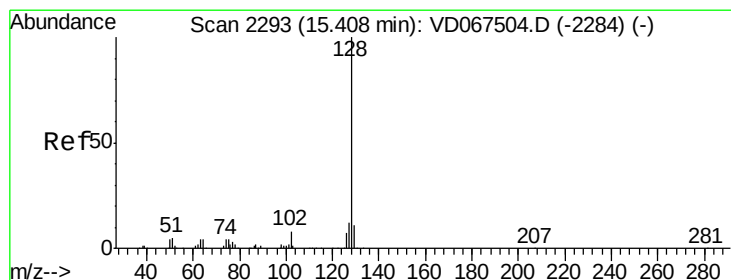
Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



Time--> 12.55 12.60 12.65 12.70



#95

Naphthalene

Concen: 1.508 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD067515.D

Acq: 04 Nov 2020 12:53

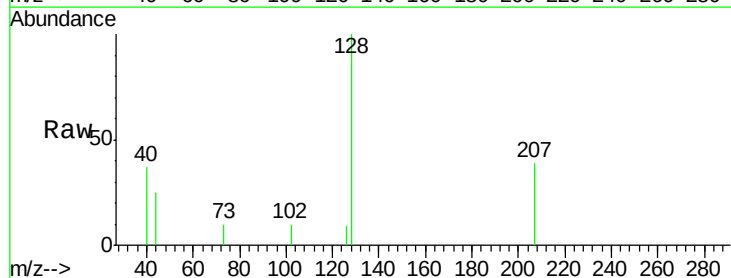
Tgt Ion: 128 Resp: 3376

Ion Ratio Lower Upper

128 100

127 4.8 10.2 15.4#

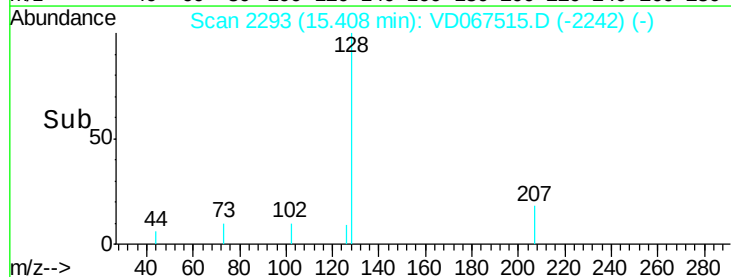
129 0.0 8.9 13.3#



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



Time--> 15.35 15.40 15.45