

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091020\
 Data File : VD066614.D
 Acq On : 10 Sep 2020 14:20
 Operator : VA/SY
 Sample : L3872-01
 Misc : 10.02G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BU-03-090420

Quant Time: Sep 11 02:07:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	311131	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	593333	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	497566	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	177434	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	227362	60.40	ug/l	0.00
Spiked Amount			Recovery	=	120.80%	
35) Dibromofluoromethane	7.91	113	211624	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	
50) Toluene-d8	10.34	98	716595	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
62) 4-Bromofluorobenzene	12.63	95	200715	42.31	ug/l	0.00
Spiked Amount			Recovery	=	84.62%	

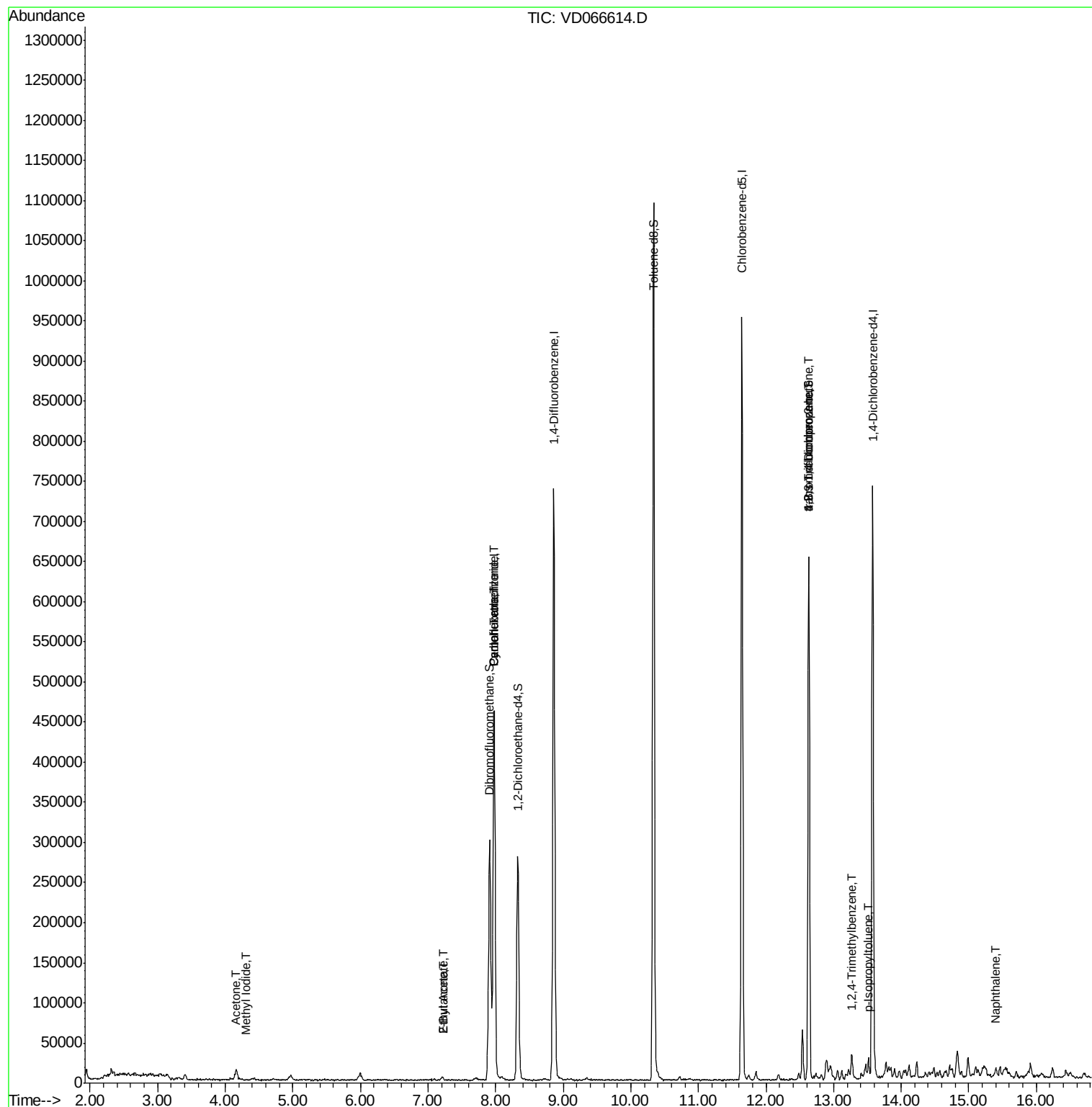
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	678	Below Cal		74
5) Bromomethane	2.78	94	1188	Below Cal	#	72
10) Methyl Iodide	4.30	142	160	4.069	ug/l #	35
16) Acetone	4.16	43	22631	32.674	ug/l #	87
20) Methylene Chloride	4.96	84	2197	Below Cal	#	63
25) 2-Butanone	7.22	43	3886	4.179	ug/l #	51
31) Cyclohexane	7.98	56	10588	1.724	ug/l #	50
37) Ethyl Acetate	7.22	43	3886	1.580	ug/l #	71
38) Carbon Tetrachloride	7.98	117	36420	5.580	ug/l #	17
76) 1,2,3-Trichloropropane	12.63	75	115194	67.505	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	115194	157.601	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.27	105	14947	1.358	ug/l	96
86) p-Isopropyltoluene	13.51	119	12428	1.061	ug/l	92
95) Naphthalene	15.40	128	8305	1.558	ug/l #	87

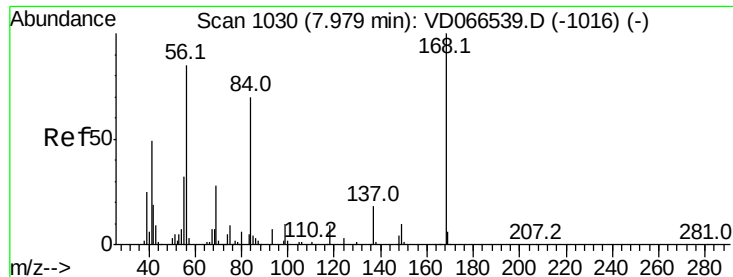
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

Instrument :

MSVOA_D

ClientSampleId :

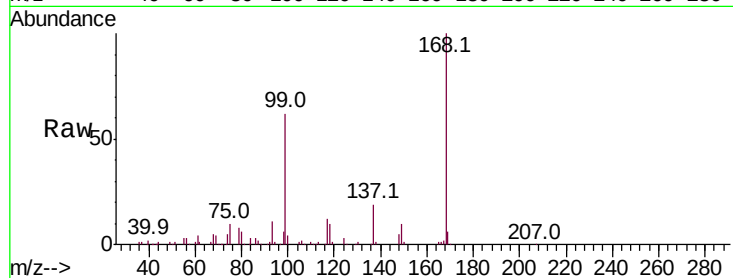
BU-03-090420

Tot Ion:168 Resp: 311131

Ion Ratio Lower Upper

168 100

99 62.3 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

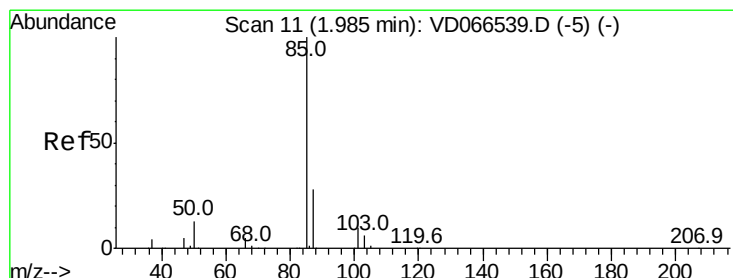
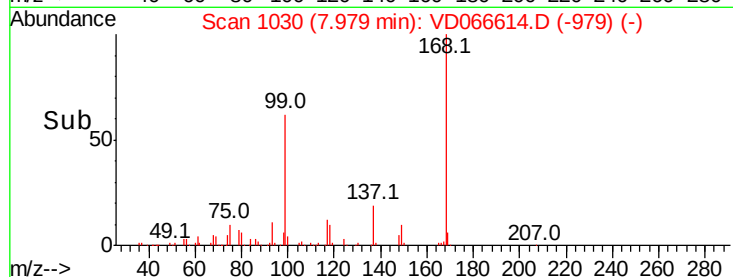
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066614.D

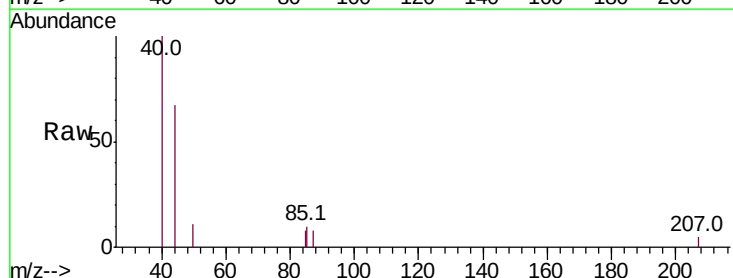
Acq: 10 Sep 2020 14:20

Tgt Ion: 85 Resp: 678

Ion Ratio Lower Upper

85 100

87 42.1 14.2 42.6



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

600

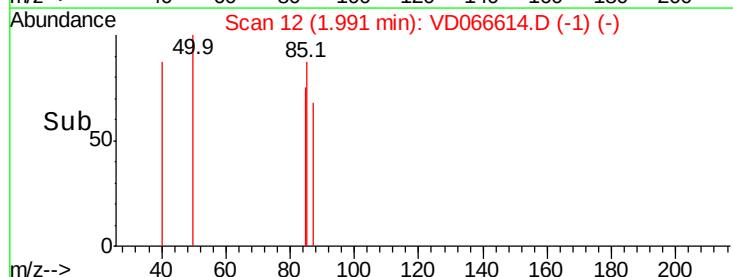
400

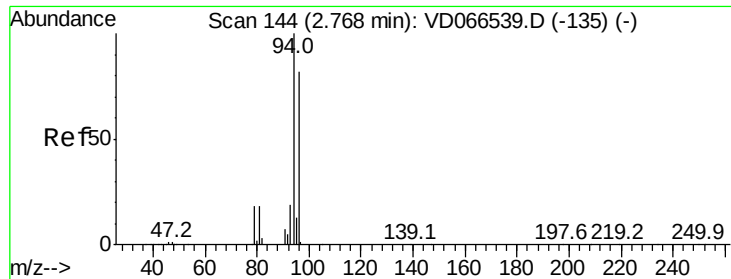
200

0

Time-->

1.94 1.96 1.98 2.00 2.02





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

Instrument :

MSVOA_D

ClientSampleId :

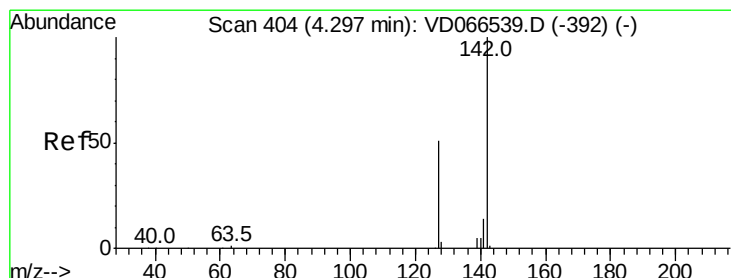
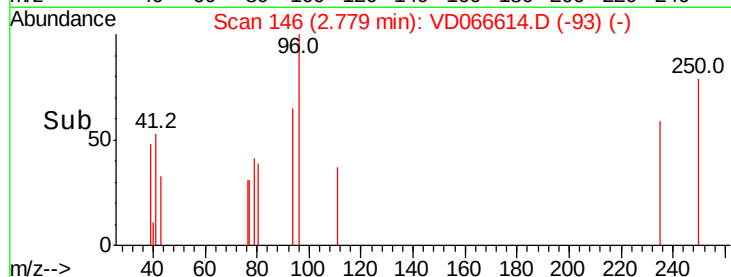
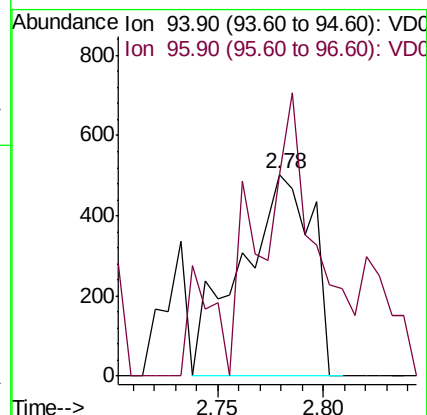
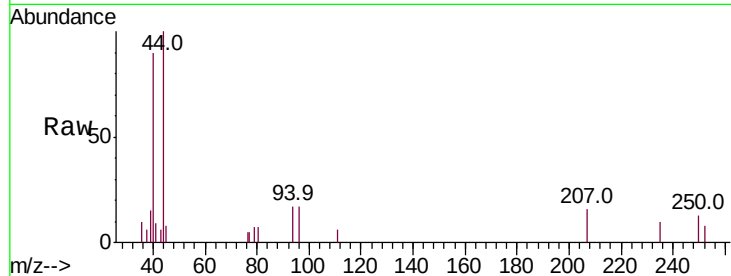
BU-03-090420

Tot Ion: 94 Resp: 1188

Ion Ratio Lower Upper

94 100

96 56.3 65.2 97.8#



#10

Methyl Iodide

Concen: 4.069 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

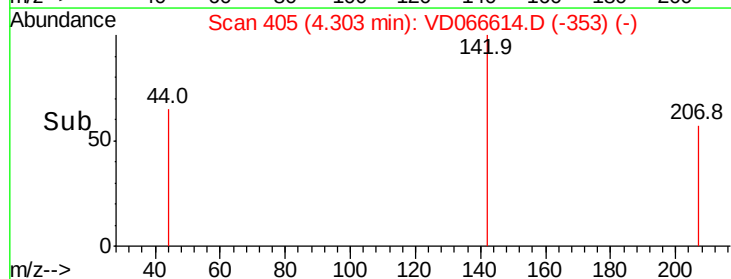
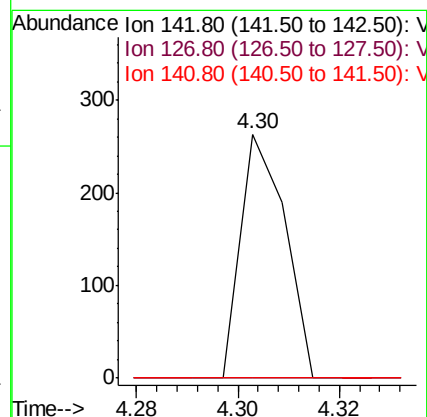
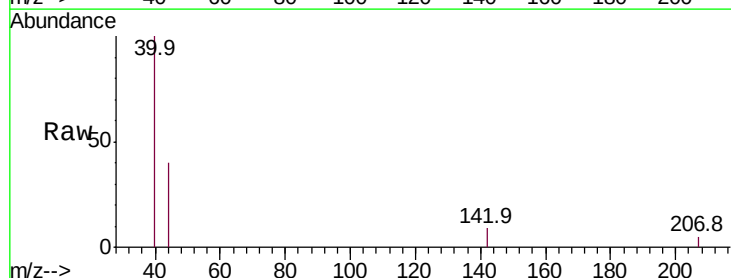
Tgt Ion: 142 Resp: 160

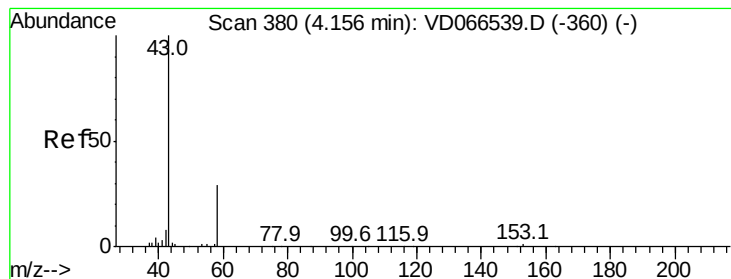
Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

141 0.0 12.2 18.4#





#16

Acetone

Concen: 32.674 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

Instrument :

MSVOA_D

ClientSampleId :

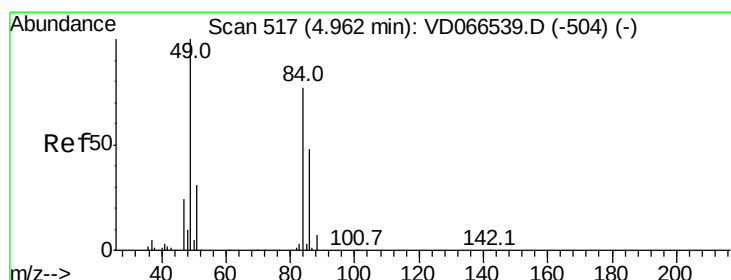
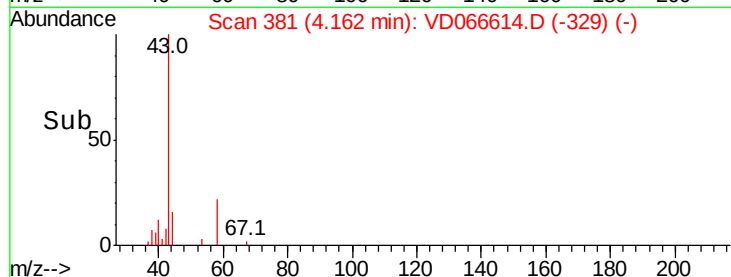
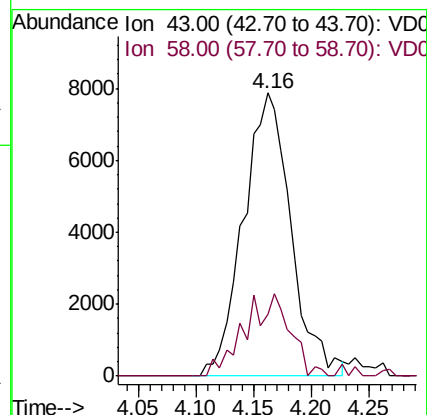
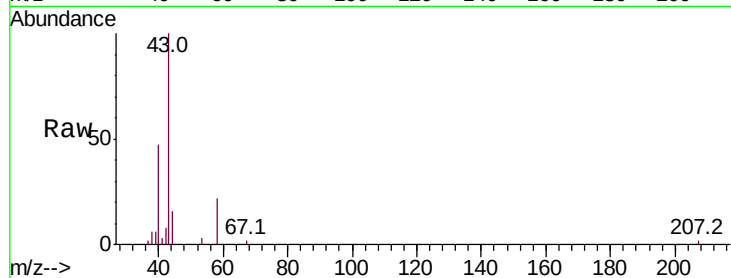
BU-03-090420

Tot Ion: 43 Resp: 22631

Ion Ratio Lower Upper

43 100

58 21.9 22.9 34.3#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

Tgt Ion: 84 Resp: 2197

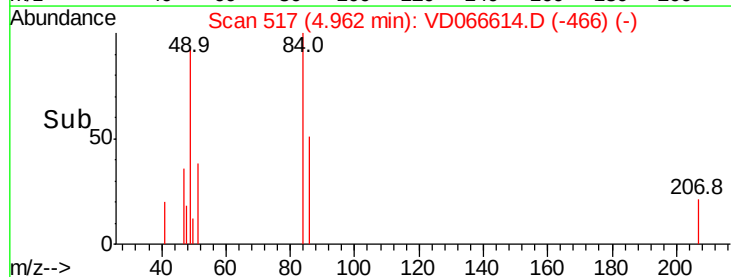
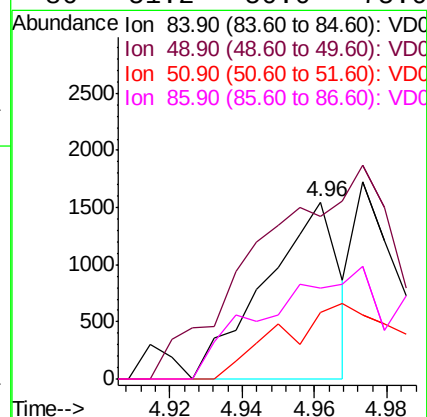
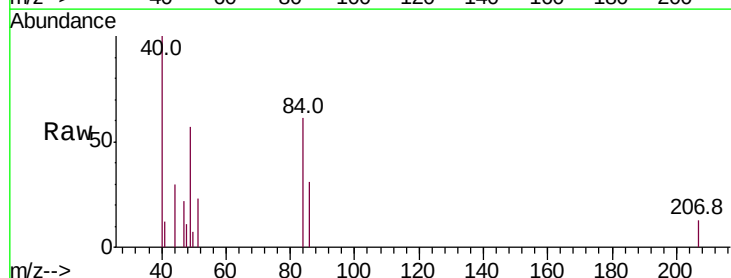
Ion Ratio Lower Upper

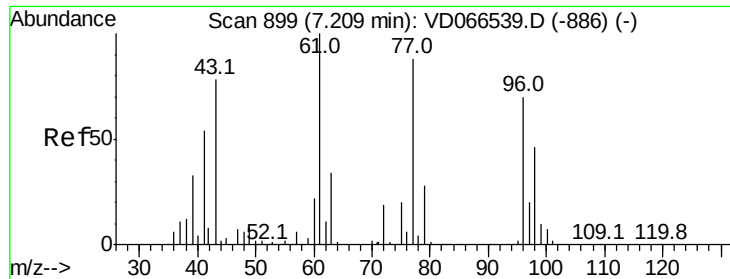
84 100

49 62.8 104.3 156.5#

51 37.7 32.2 48.4

86 51.2 50.0 75.0

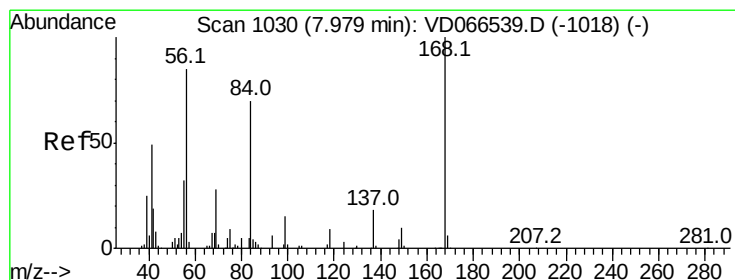
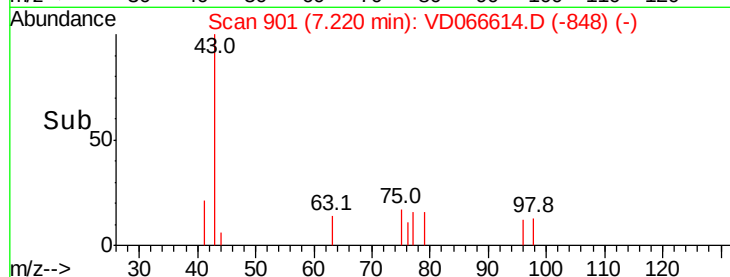
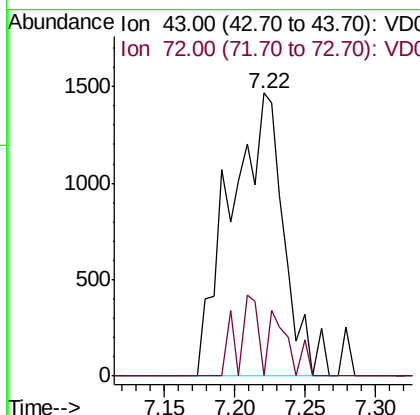
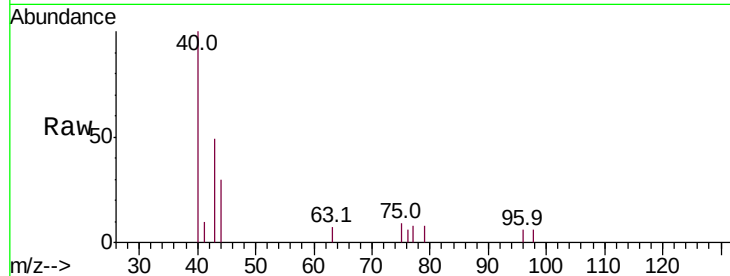




#25
2-Butanone
Concen: 4.179 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.01 min
Lab File: VD066614.D
Acq: 10 Sep 2020 14:20

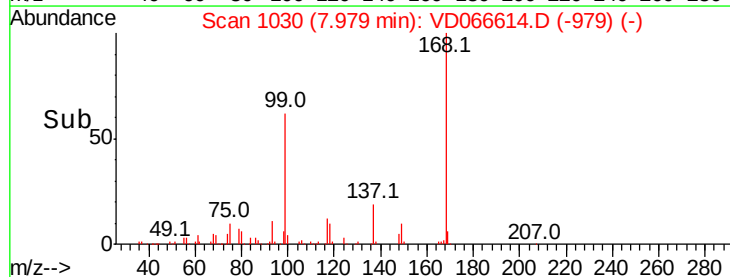
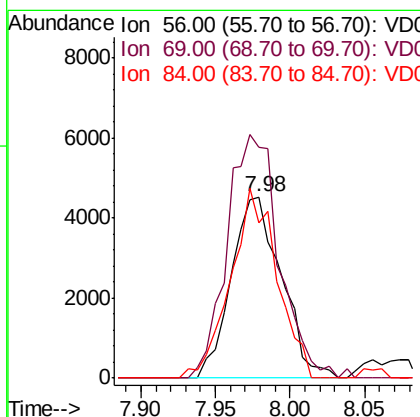
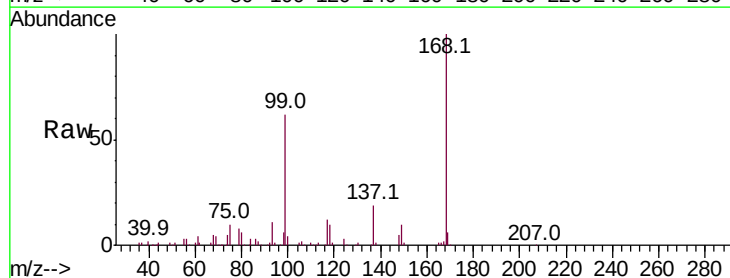
Instrument :
MSVOA_D
ClientSampleId :
BU-03-090420

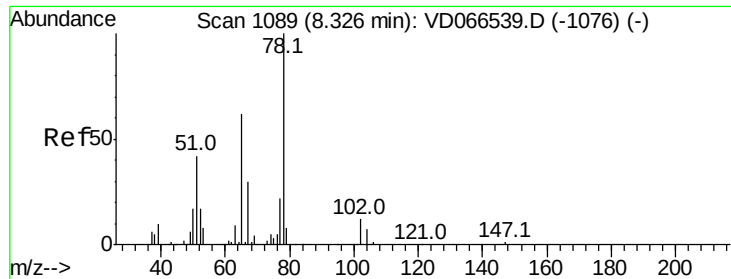
Tot Ion: 43 Resp: 3886
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.6#



#31
Cyclohexane
Concen: 1.724 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VD066614.D
Acq: 10 Sep 2020 14:20

Tgt Ion: 56 Resp: 10588
Ion Ratio Lower Upper
56 100
69 127.5 26.3 39.5#
84 85.3 66.1 99.1

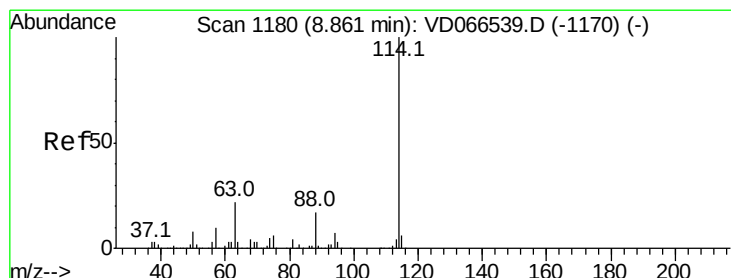
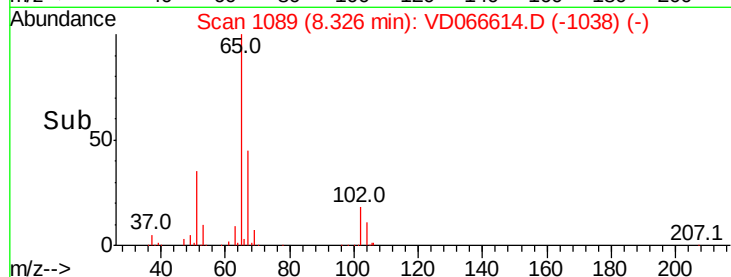
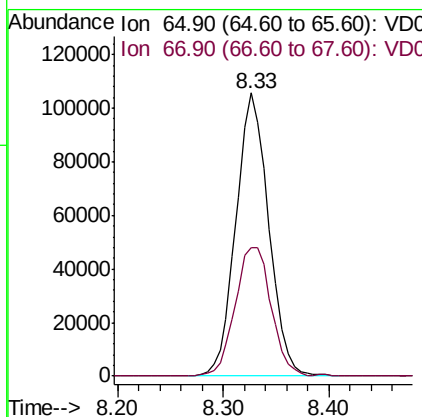
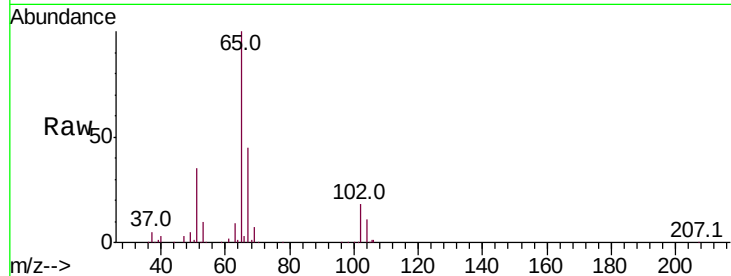




#33
 1,2-Dichloroethane-d4
 Concen: 60.398 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. 0.00 min
 Lab File: VD066614.D
 Acq: 10 Sep 2020 14:20

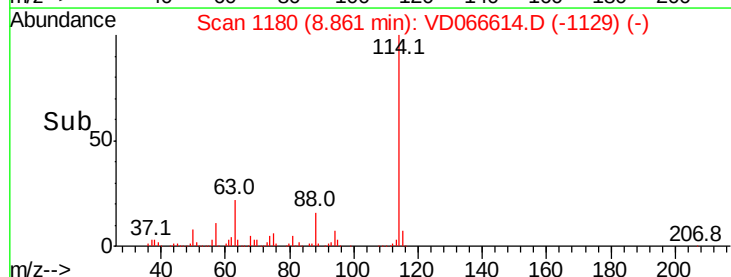
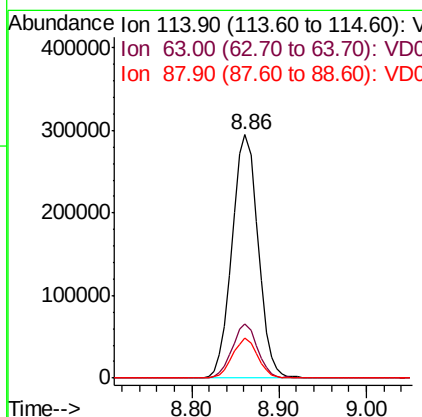
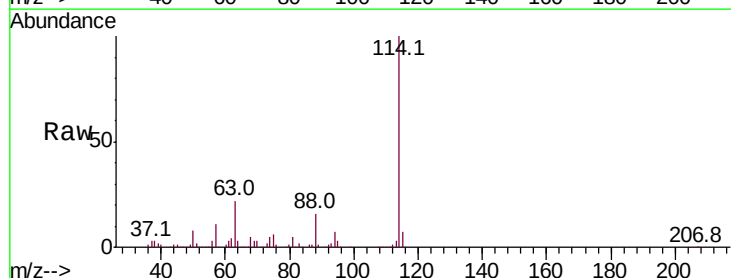
Instrument :
 MSVOA_D
 ClientSampleId :
 BU-03-090420

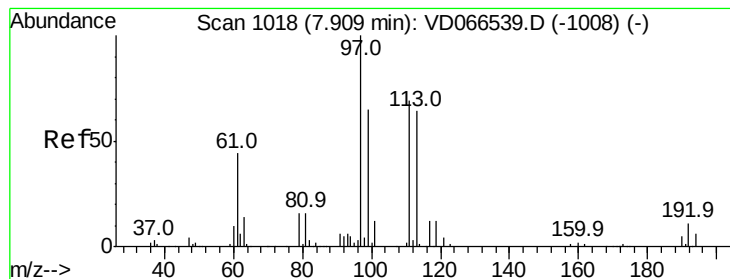
Tot Ion: 65 Resp: 227362
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD066614.D
 Acq: 10 Sep 2020 14:20

Tgt Ion: 114 Resp: 593333
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.2
 88 16.2 0.0 33.2





#35

Dibromofluoromethane

Concen: 52.871 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

Instrument :

MSVOA_D

ClientSampleId :

BU-03-090420

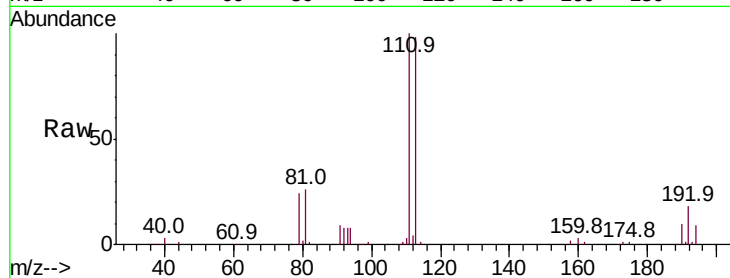
Tot Ion:113 Resp: 211624

Ion Ratio Lower Upper

113 100

111 103.1 83.2 124.8

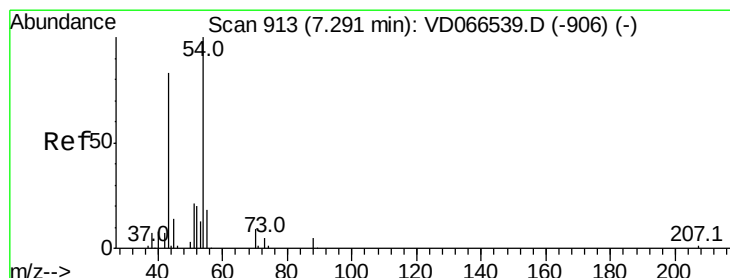
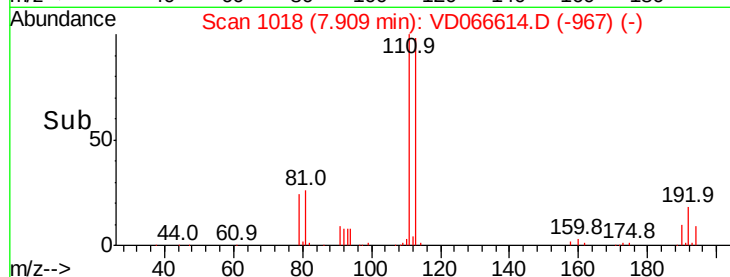
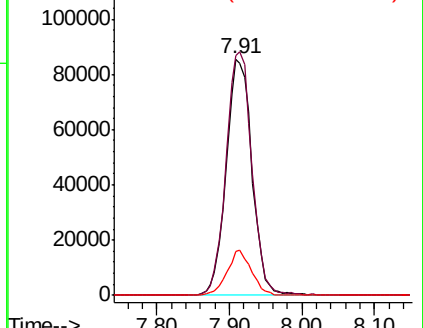
192 17.9 13.7 20.5



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



#37

Ethyl Acetate

Concen: 1.580 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.07 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

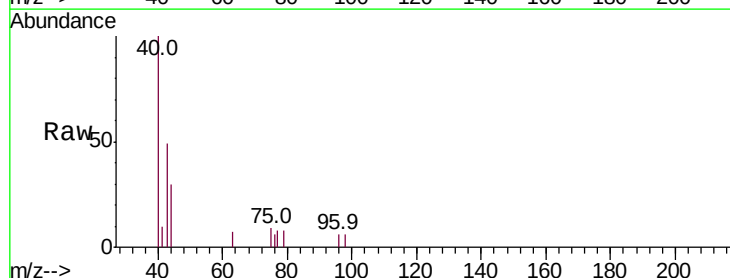
Tgt Ion: 43 Resp: 3886

Ion Ratio Lower Upper

43 100

61 2.3 11.8 17.8#

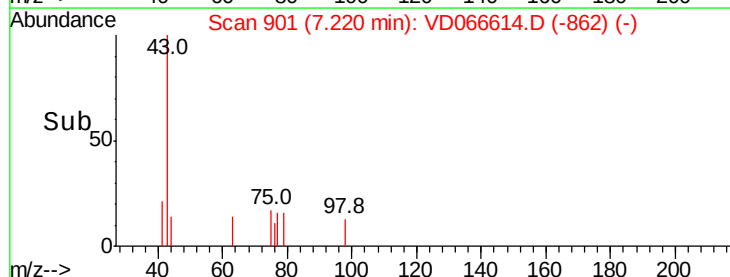
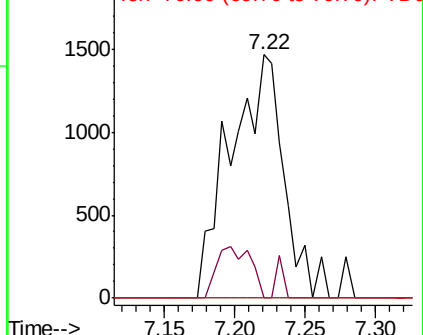
70 0.0 7.9 11.9#

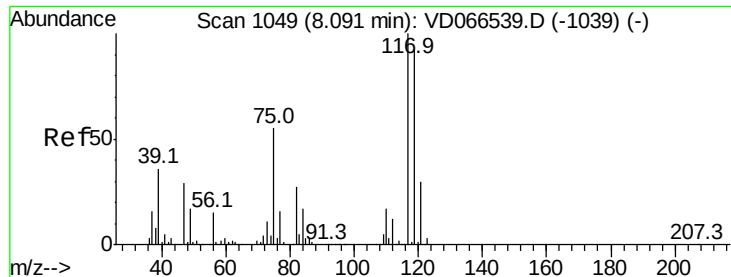


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.580 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

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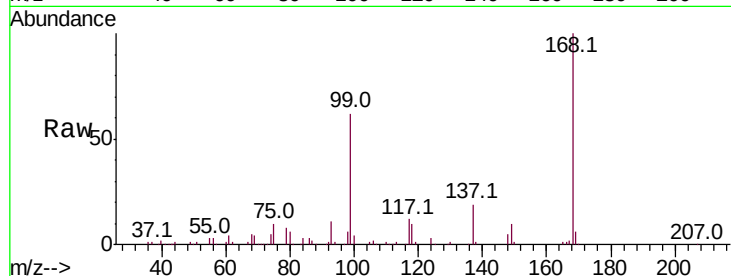
Tot Ion:117 Resp: 36420

Ion Ratio Lower Upper

117 100

119 4.4 73.9 110.9#

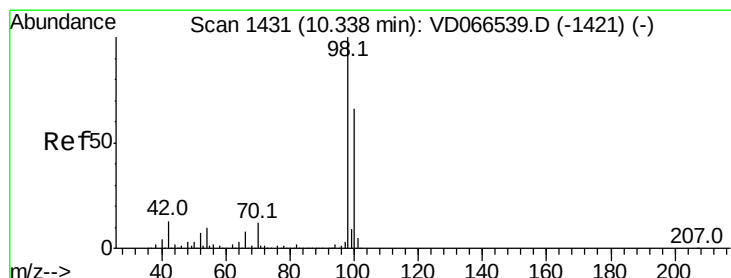
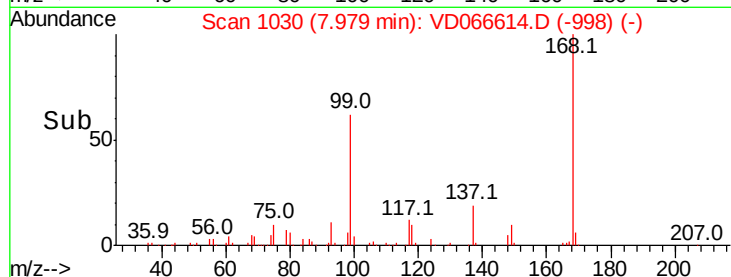
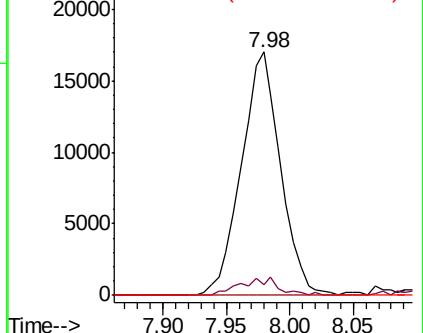
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 50.090 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066614.D

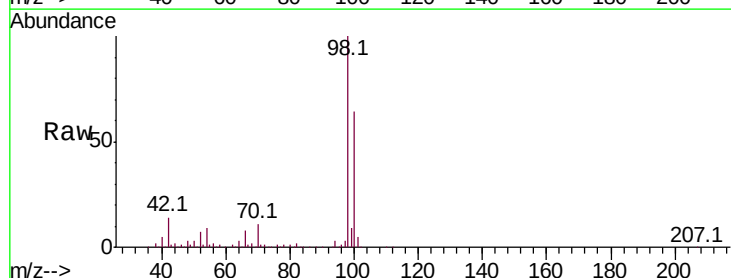
Acq: 10 Sep 2020 14:20

Tgt Ion: 98 Resp: 716595

Ion Ratio Lower Upper

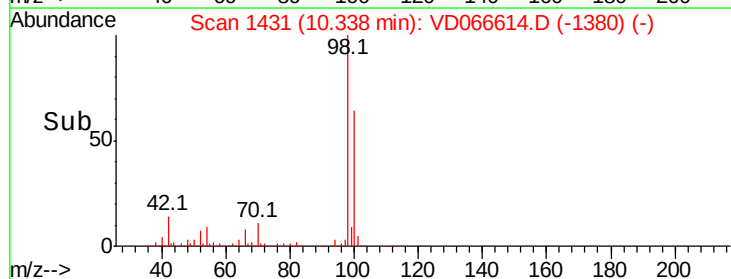
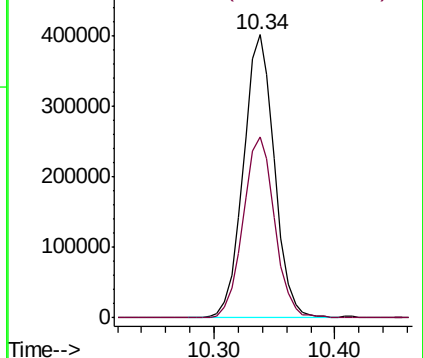
98 100

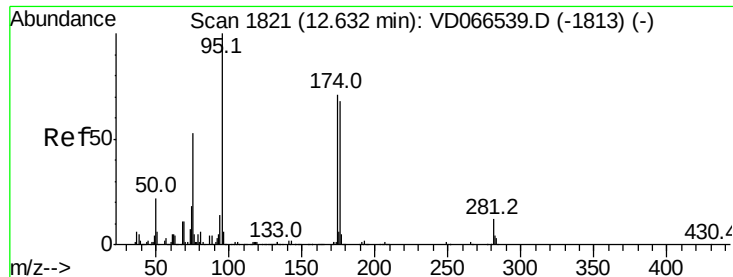
100 65.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 42.311 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

Instrument :

MSVOA_D

ClientSampleId :

BU-03-090420

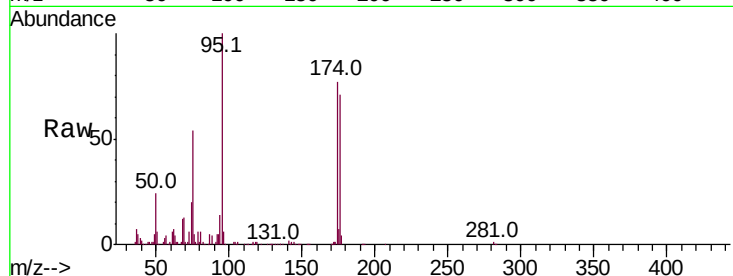
Tot Ion: 95 Resp: 200715

Ion Ratio Lower Upper

95 100

174 78.3 0.0 155.8

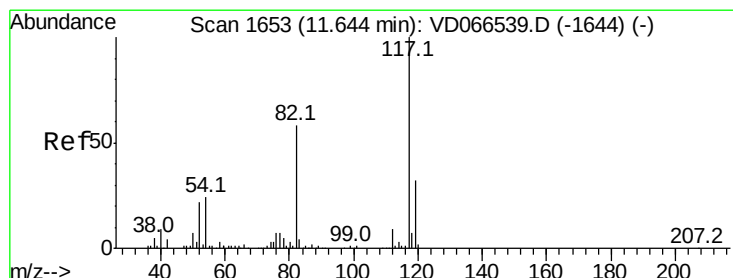
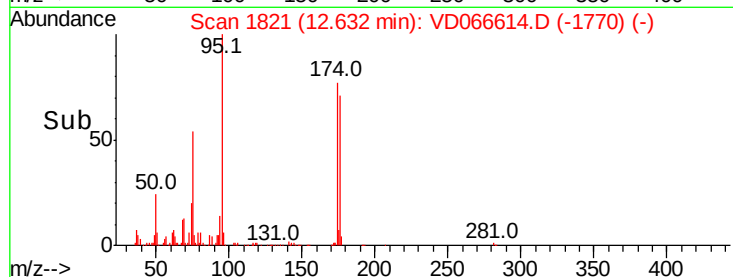
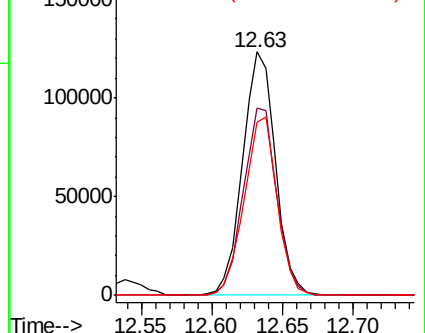
176 73.6 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

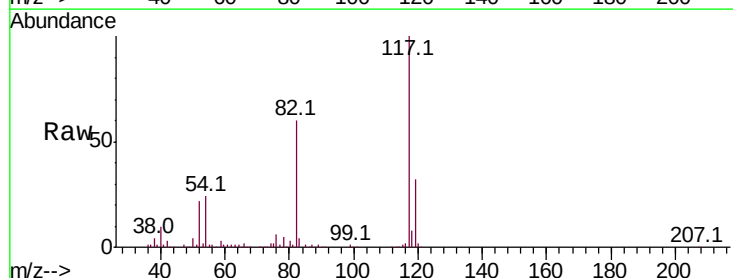
Tgt Ion: 117 Resp: 497566

Ion Ratio Lower Upper

117 100

82 60.1 46.2 69.2

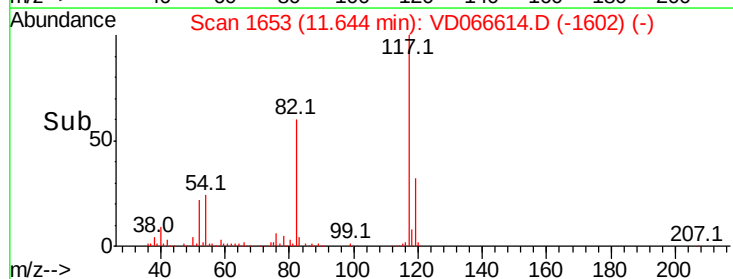
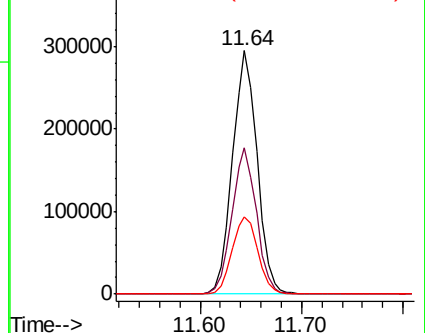
119 31.7 25.8 38.8

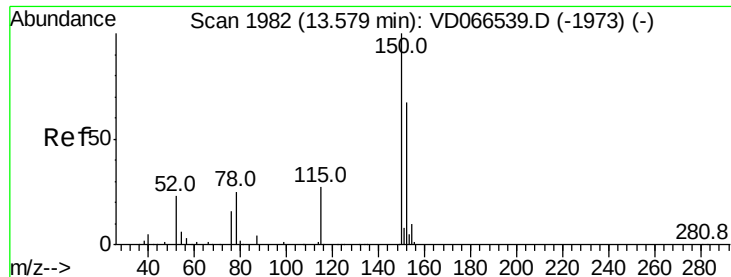


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

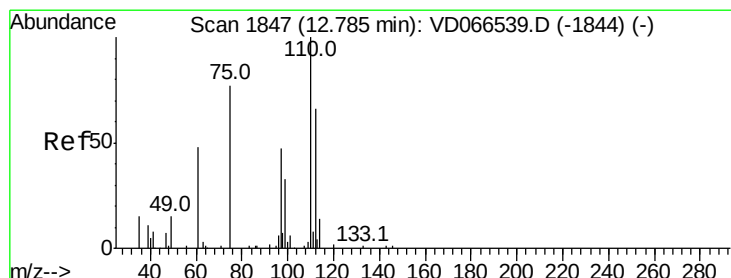
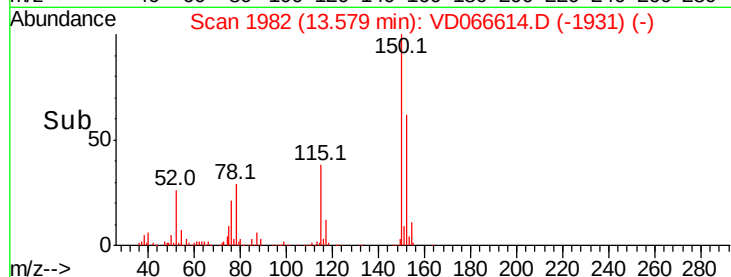
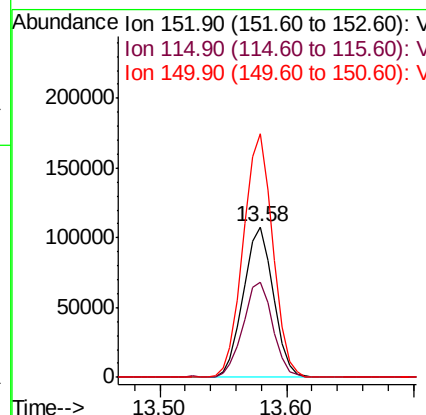
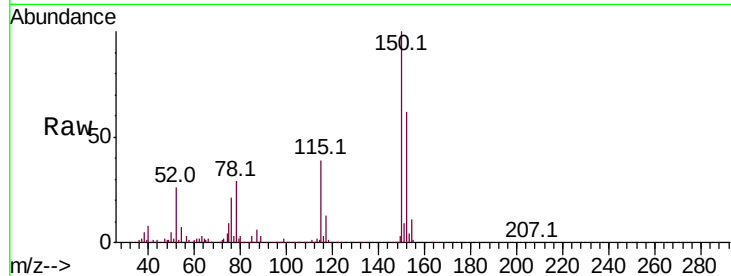




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.58 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VD066614.D
 Acq: 10 Sep 2020 14:20

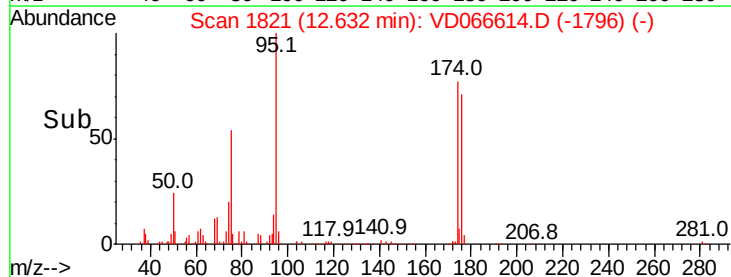
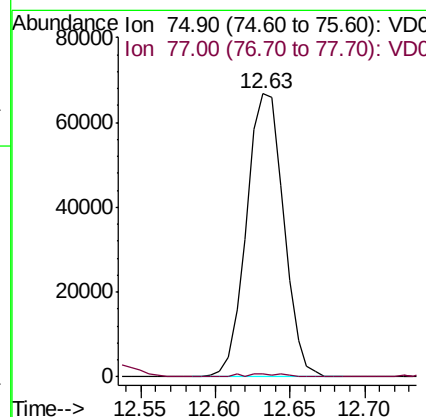
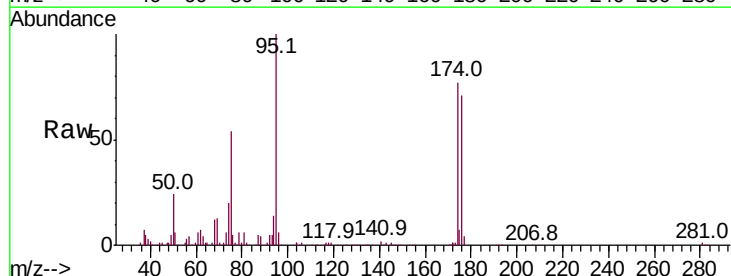
Instrument :
 MSVOA_D
 ClientSampleId :
 BU-03-090420

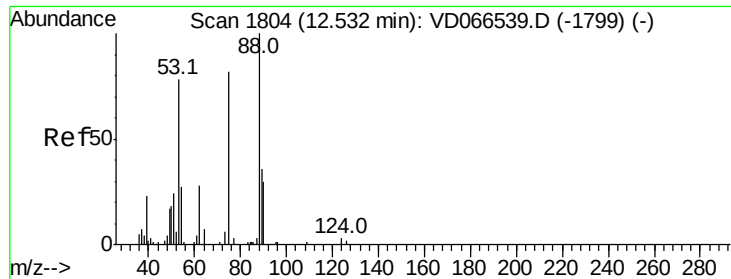
Tot Ion:152 Resp: 177434
 Ion Ratio Lower Upper
 152 100
 115 62.7 30.4 91.2
 150 159.0 0.0 345.8



#76
 1,2,3-Trichloropropane
 Concen: 67.505 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD066614.D
 Acq: 10 Sep 2020 14:20

Tgt Ion: 75 Resp: 115194
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 157.601 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

Instrument :

MSVOA_D

ClientSampleId :

BU-03-090420

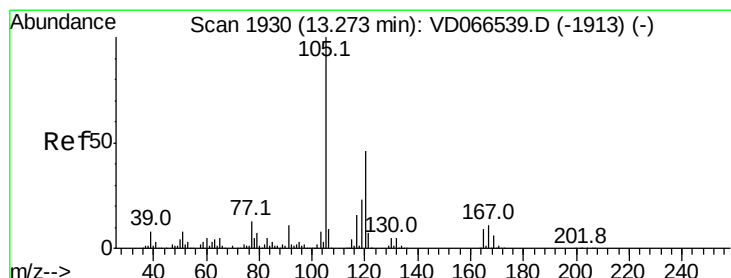
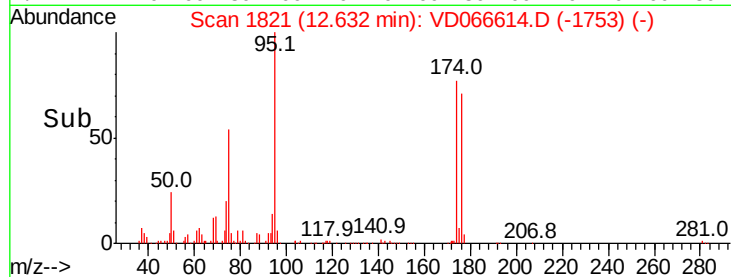
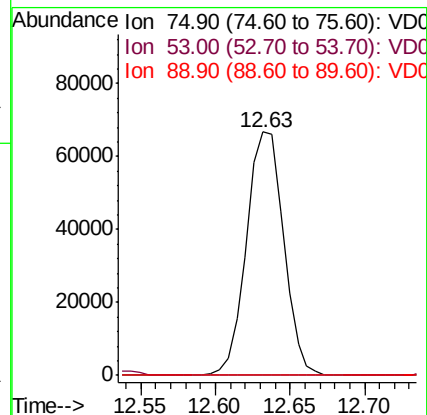
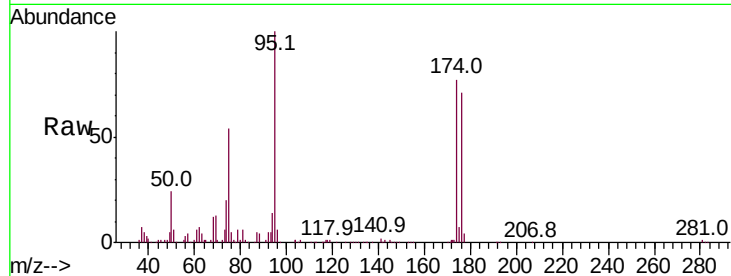
Tot Ion: 75 Resp: 115194

Ion Ratio Lower Upper

75 100

53 0.0 87.0 130.4#

89 0.0 37.1 55.7#



#84

1,2,4-Trimethylbenzene

Concen: 1.358 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD066614.D

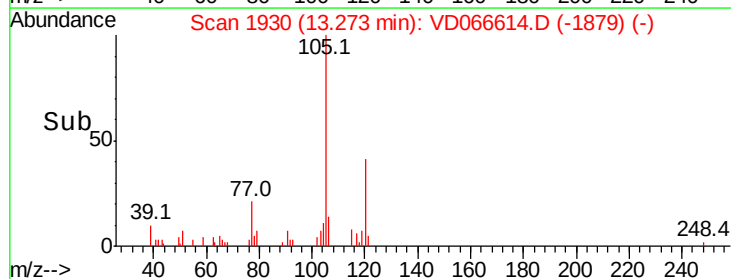
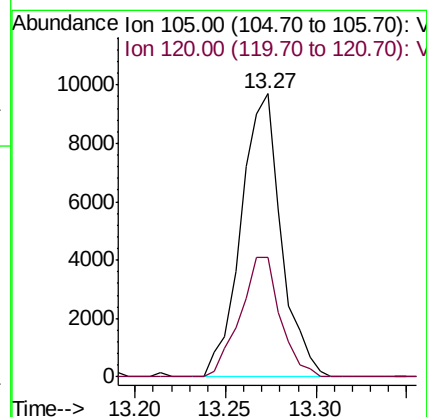
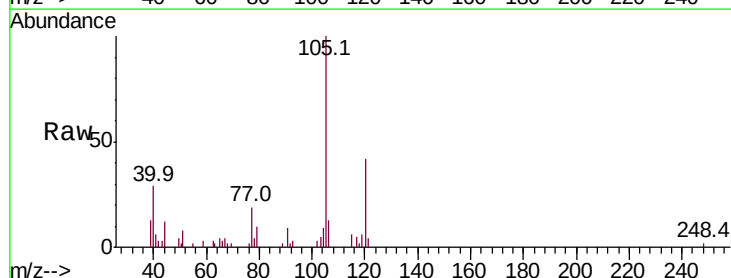
Acq: 10 Sep 2020 14:20

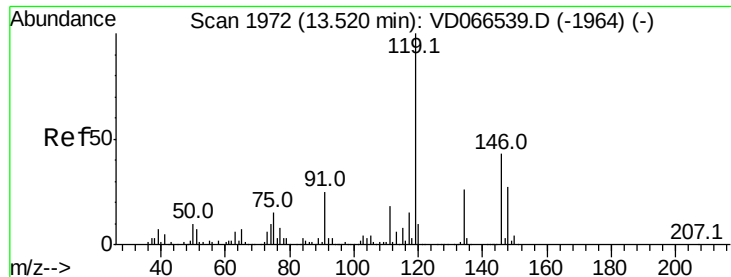
Tgt Ion: 105 Resp: 14947

Ion Ratio Lower Upper

105 100

120 42.2 22.6 67.7





#86

p-Isopropyltoluene

Concen: 1.061 ug/l

RT: 13.51 min Scan# 1971

Delta R.T. -0.01 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

Instrument :

MSVOA_D

ClientSampleId :

BU-03-090420

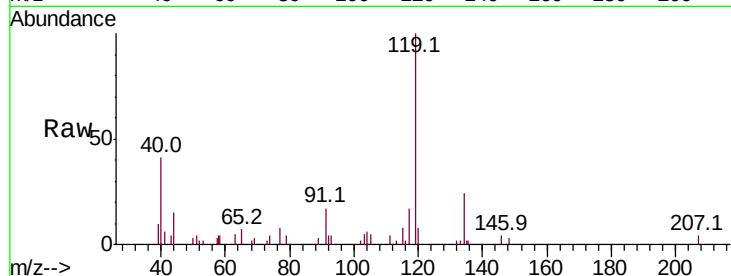
Tot Ion:119 Resp: 12428

Ion Ratio Lower Upper

119 100

134 24.8 12.7 38.0

91 33.1 12.5 37.5

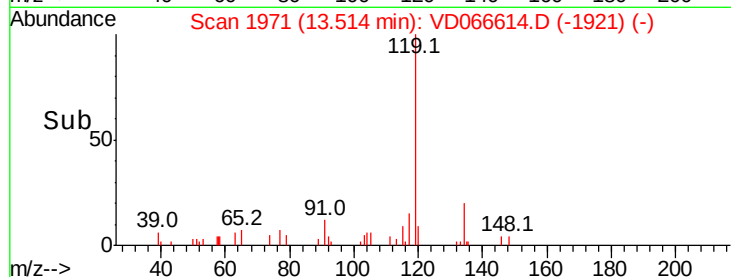


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

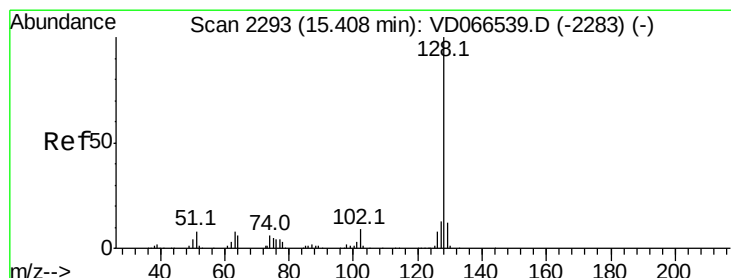
Ion 91.00 (90.70 to 91.70): V

Time--> 13.45 13.50 13.55



13.51

Time--> 13.45 13.50 13.55



#95

Naphthalene

Concen: 1.558 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD066614.D

Acq: 10 Sep 2020 14:20

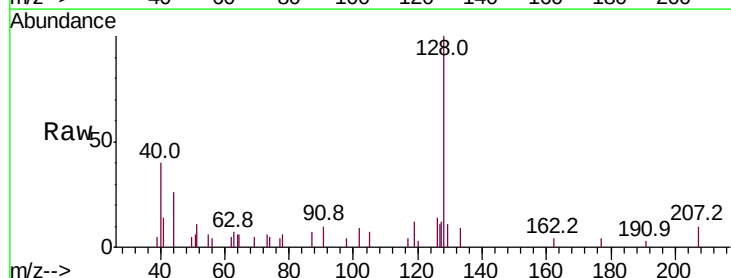
Tgt Ion:128 Resp: 8305

Ion Ratio Lower Upper

128 100

127 21.8 10.7 16.1#

129 13.1 9.1 13.7

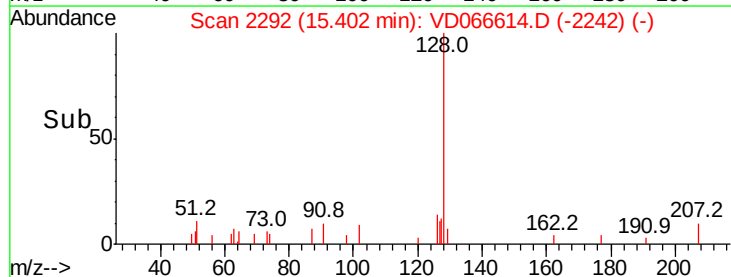


Abundance Ion 128.00 (127.70 to 128.70): V

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



15.40

Time--> 15.35 15.40 15.45