

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052820\
 Data File : VX016482.D
 Acq On : 28 May 2020 14:01
 Operator : JC/SP
 Sample : L2786-01 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LD-C

Quant Time: May 28 14:42:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	289481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	474077	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	482884	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	252312	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	176115	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
35) Dibromofluoromethane	5.46	113	144822	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
50) Toluene-d8	8.70	98	591262	52.04	ug/l	0.00
Spiked Amount			Recovery	=	104.08%	
62) 4-Bromofluorobenzene	11.12	95	249856	56.91	ug/l	0.00
Spiked Amount			Recovery	=	113.82%	

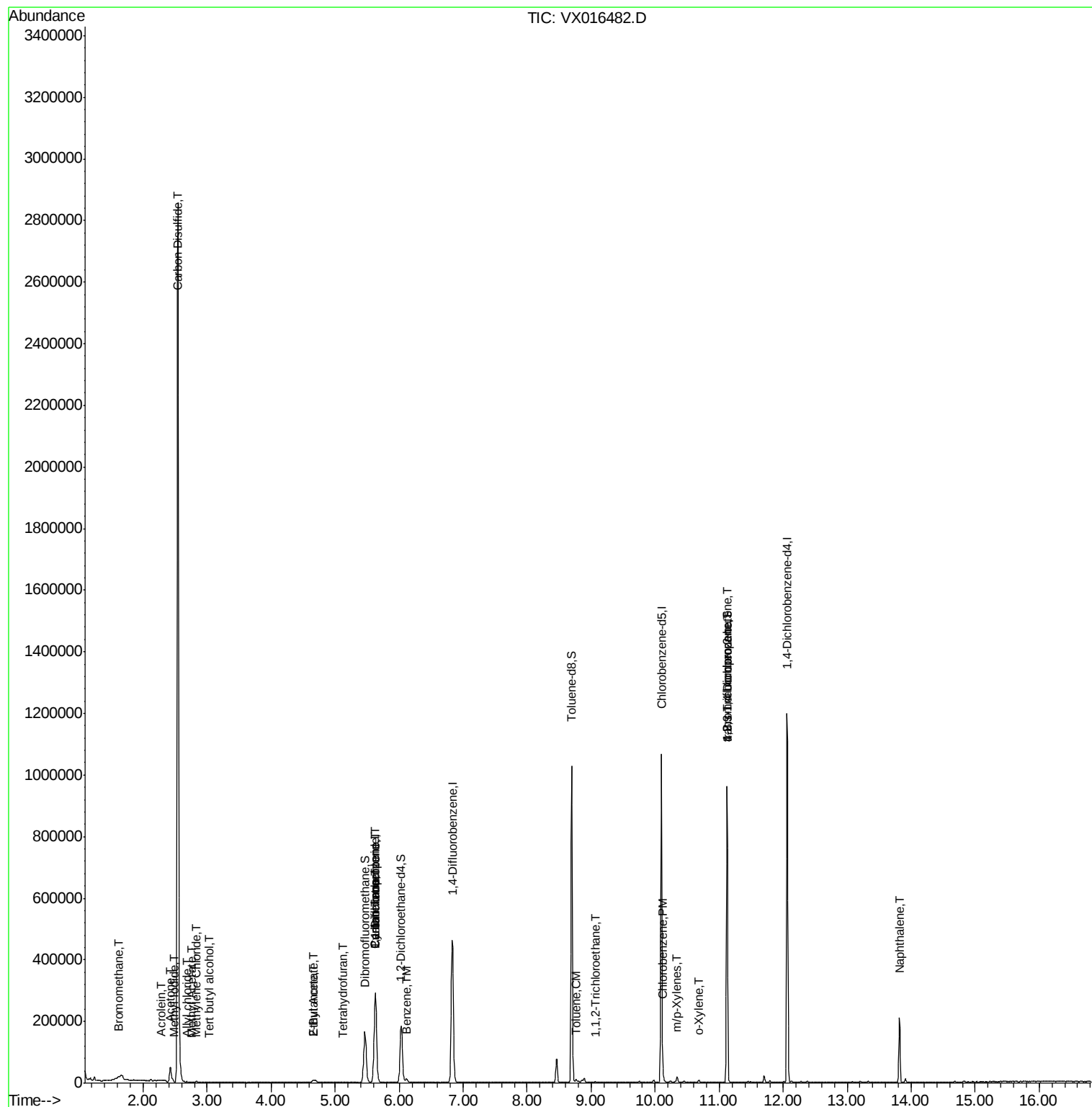
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	529	0.299	ug/l	90
10) Methyl Iodide	2.49	142	645	3.248	ug/l #	72
11) Tert butyl alcohol	3.04	59	542	0.588	ug/l #	94
13) Acrolein	2.28	56	667	1.701	ug/l #	45
14) Allyl chloride	2.69	41	2026	0.396	ug/l #	28
16) Acetone	2.43	43	53800	34.158	ug/l	96
17) Carbon Disulfide	2.54	76	3625191	438.264	ug/l	100
18) Methyl Acetate	2.75	43	1143	0.283	ug/l #	86
20) Methylene Chloride	2.83	84	1298	0.398	ug/l #	85
25) 2-Butanone	4.65	43	7404	2.774	ug/l #	87
29) Tetrahydrofuran	5.12	42	1083	0.628	ug/l #	75
31) Cyclohexane	5.63	56	6014	1.204	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	21491	4.788	ug/l #	46
37) Ethyl Acetate	4.65	43	7404	1.374	ug/l #	68
38) Carbon Tetrachloride	5.62	117	27702	5.873	ug/l #	15
40) Benzene	6.12	78	13394	1.002	ug/l #	85
52) Toluene	8.77	92	2718	0.322	ug/l	90
55) 1,1,2-Trichloroethane	9.06	97	1322	0.394	ug/l #	14
65) Chlorobenzene	10.12	112	9545	0.970	ug/l	97
68) m/p-Xylenes	10.34	106	3565	0.549	ug/l	96
69) o-Xylene	10.68	106	1561	0.248	ug/l	80
76) 1,2,3-Trichloropropane	11.12	75	123229	22.220	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	123229	54.657	ug/l #	14
95) Naphthalene	13.82	128	126472	7.218	ug/l	99

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

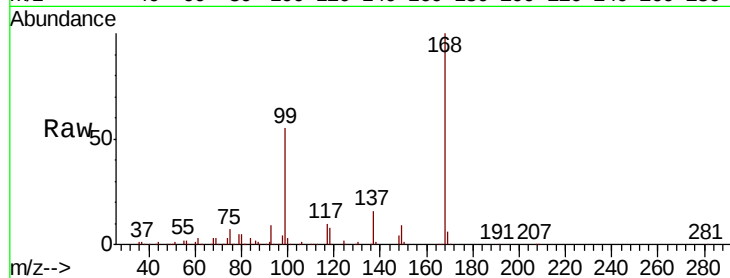
LD-C

Tot Ion:168 Resp: 289481

Ion Ratio Lower Upper

168 100

99 54.9 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

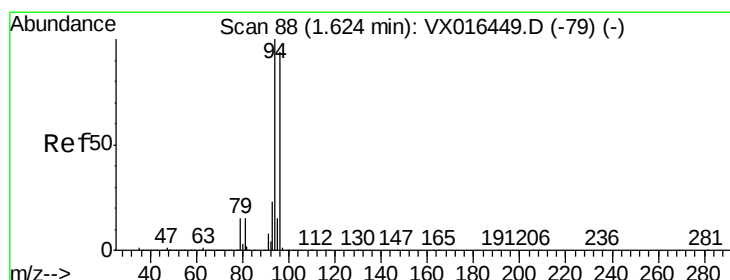
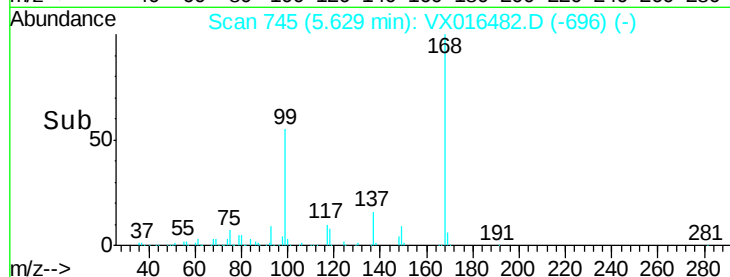
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.299 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.00 min

Lab File: VX016482.D

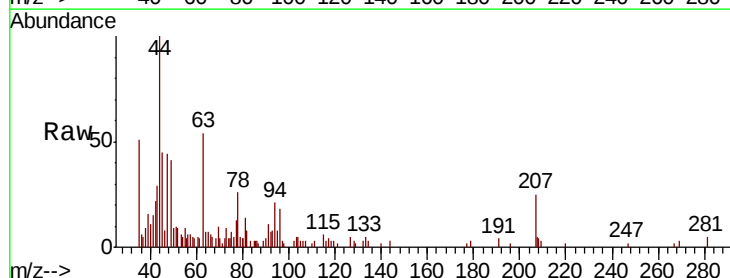
Acq: 28 May 2020 14:01

Tgt Ion: 94 Resp: 529

Ion Ratio Lower Upper

94 100

96 84.1 75.1 112.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

600

500

400

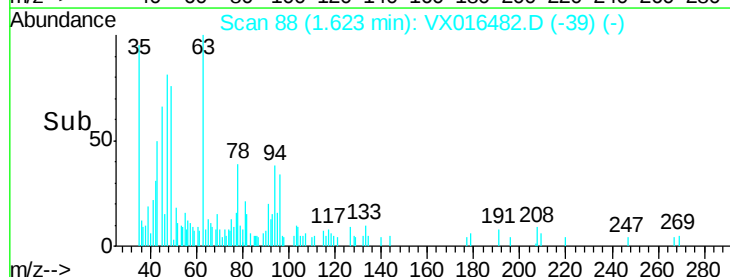
300

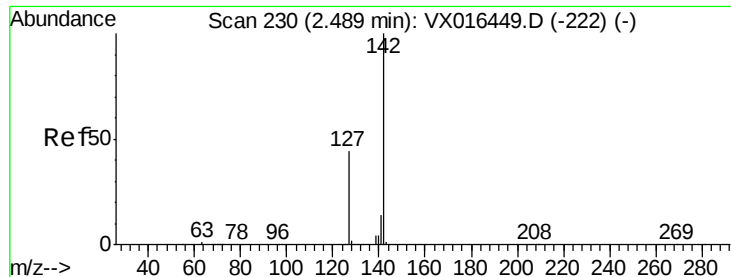
200

100

0

Time-->

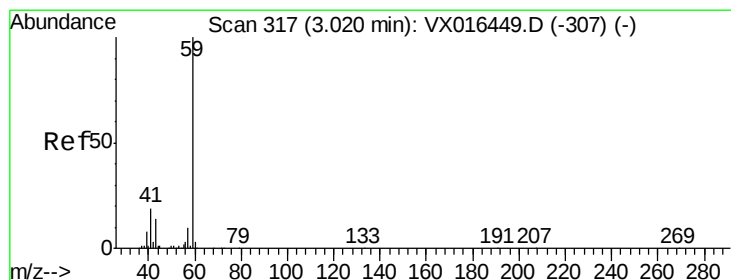
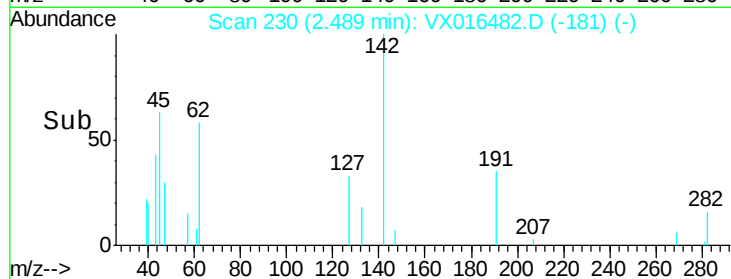
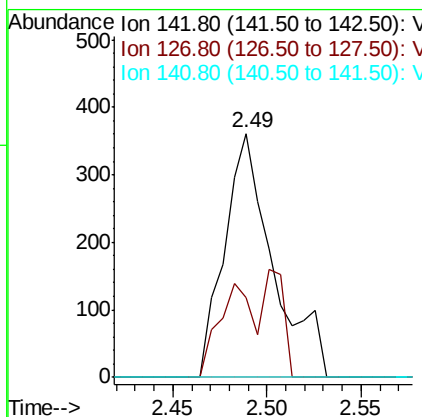
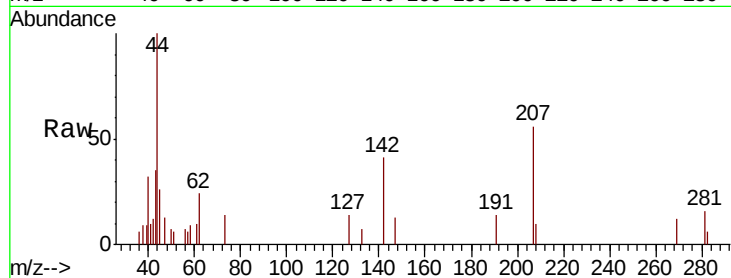




#10
Methvl Iodide
Concen: 3.248 ug/l
RT: 2.49 min Scan# 230
Delta R.T. -0.00 min
Lab File: VX016482.D
Acq: 28 May 2020 14:01

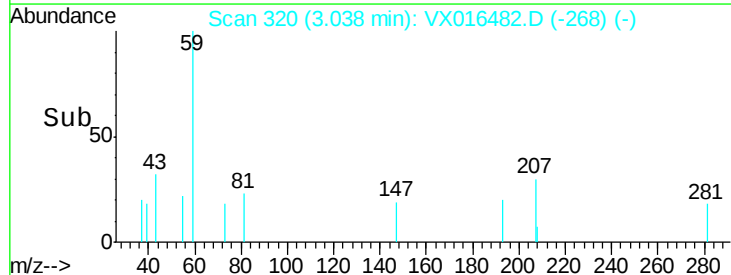
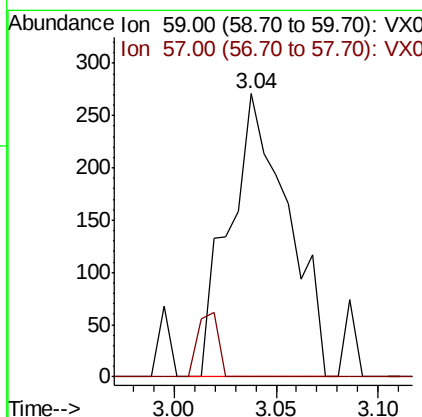
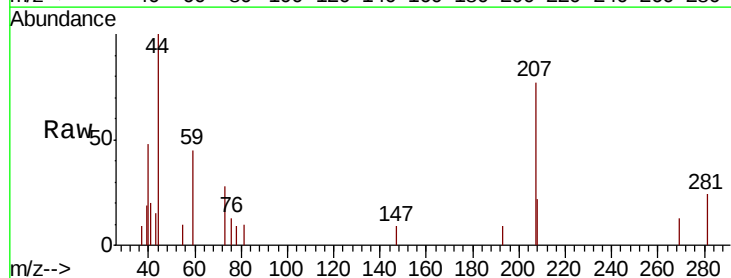
Instrument :
MSVOA_X
ClientSampleId :
LD-C

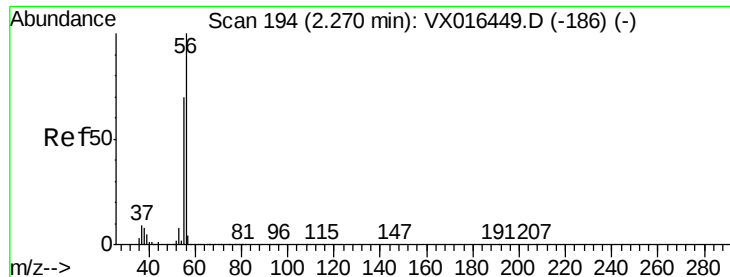
Tot Ion:142 Resp: 645
Ion Ratio Lower Upper
142 100
127 27.1 35.3 52.9#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.588 ug/l
RT: 3.04 min Scan# 320
Delta R.T. 0.02 min
Lab File: VX016482.D
Acq: 28 May 2020 14:01

Tgt Ion: 59 Resp: 542
Ion Ratio Lower Upper
59 100
57 7.9 8.2 12.4#





#13

Acrolein

Concen: 1.701 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

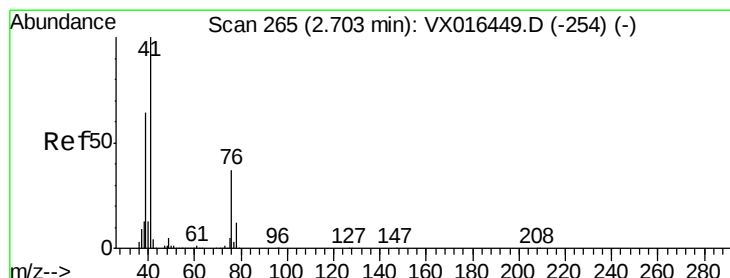
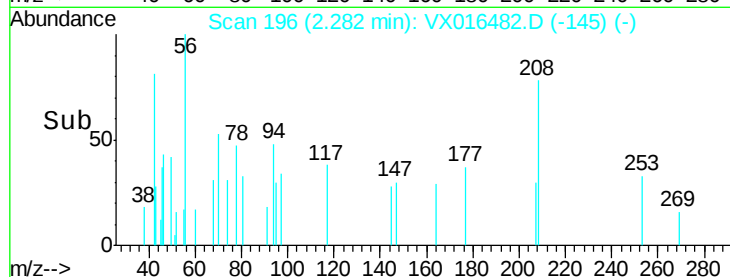
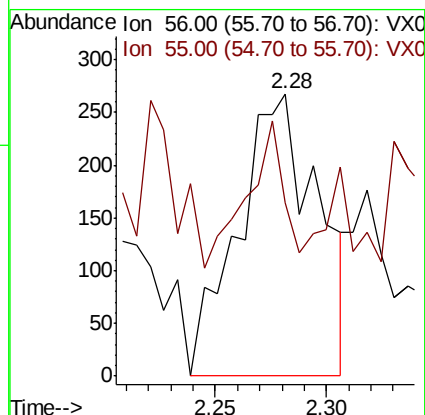
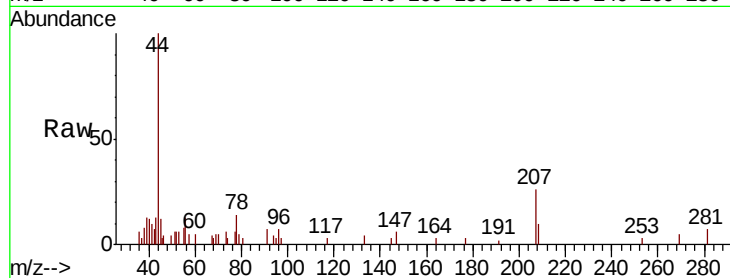
LD-C

Tot Ion: 56 Resp: 667

Ion Ratio Lower Upper

56 100

55 26.4 58.3 87.5#



#14

Allyl chloride

Concen: 0.396 ug/l

RT: 2.69 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

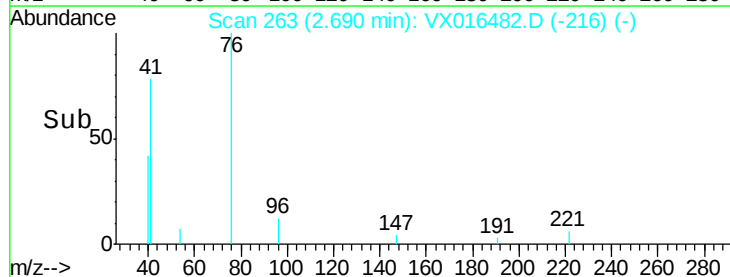
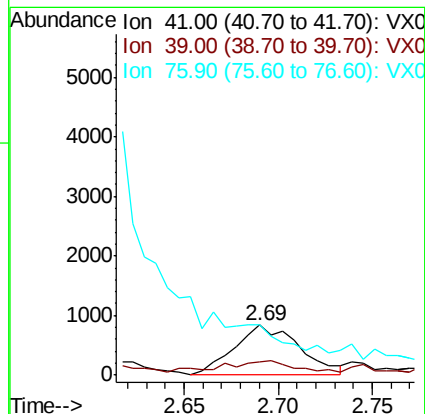
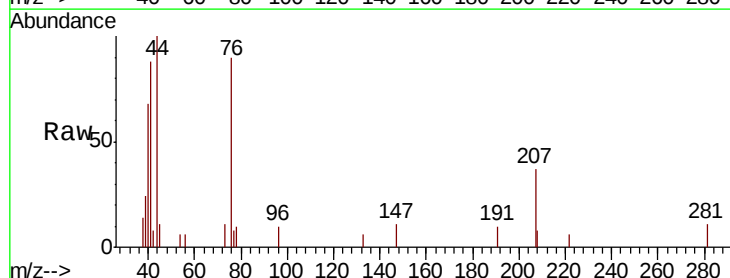
Tgt Ion: 41 Resp: 2026

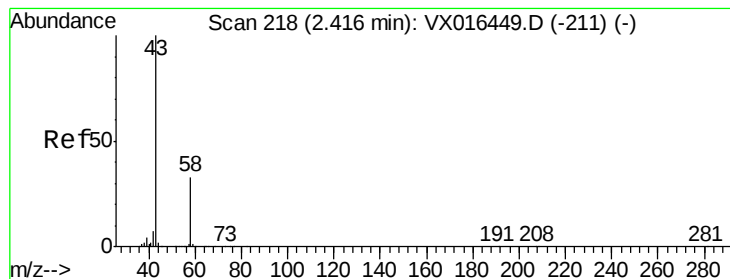
Ion Ratio Lower Upper

41 100

39 0.0 47.7 71.5#

76 0.0 26.6 40.0#





#16

Acetone

Concen: 34.158 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

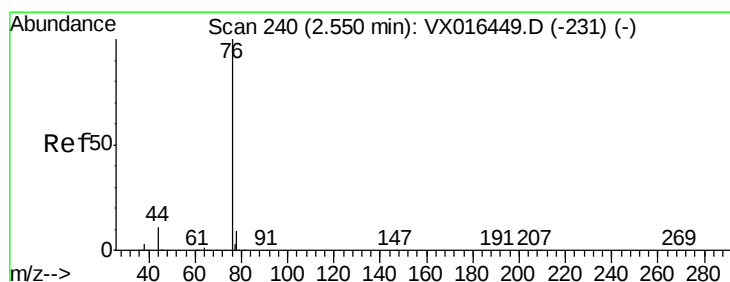
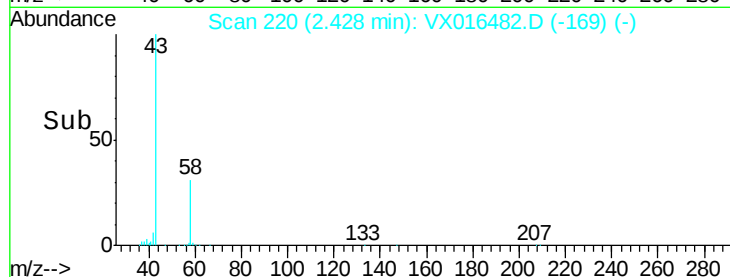
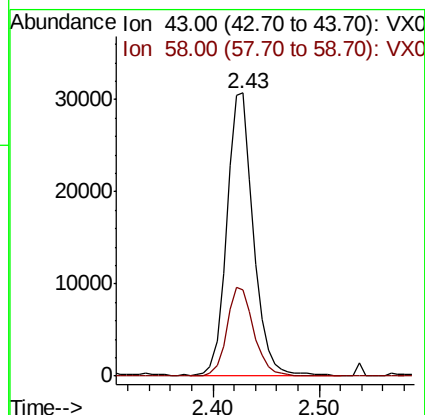
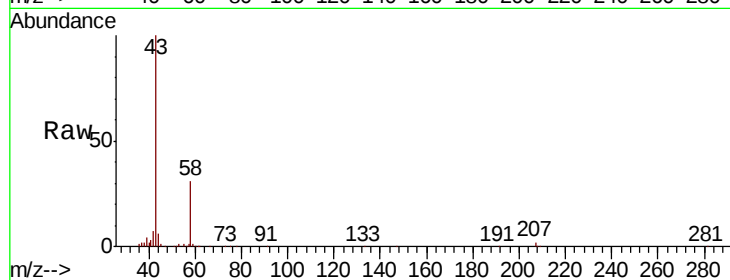
LD-C

Tot Ion: 43 Resp: 53800

Ion Ratio Lower Upper

43 100

58 30.6 26.1 39.1



#17

Carbon Disulfide

Concen: 438.264 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VX016482.D

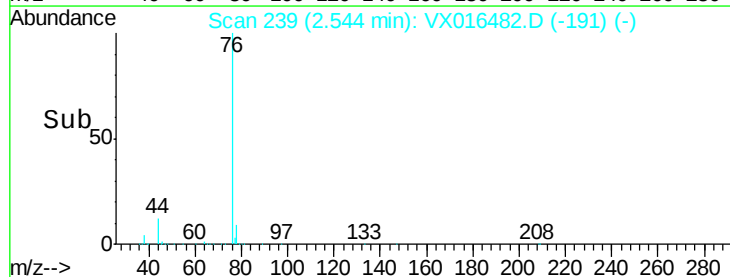
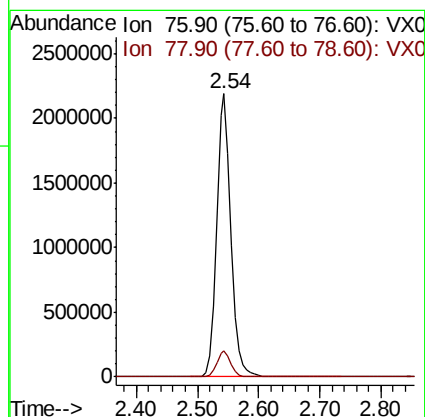
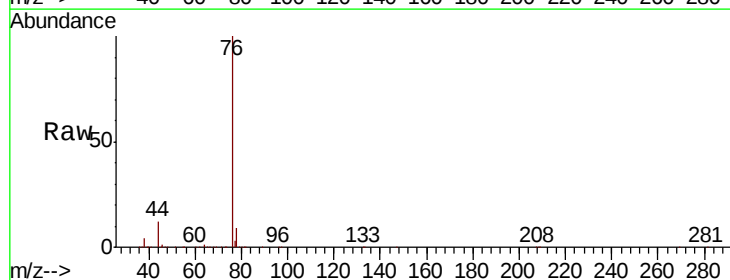
Acq: 28 May 2020 14:01

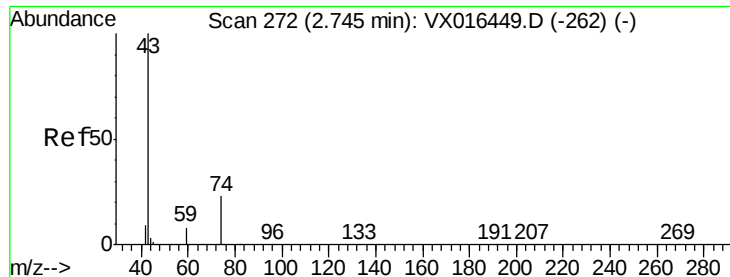
Tgt Ion: 76 Resp: 3625191

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0

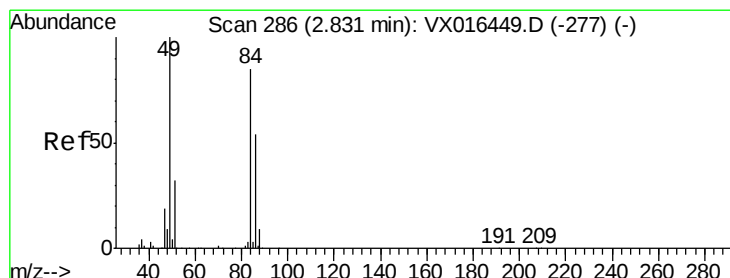
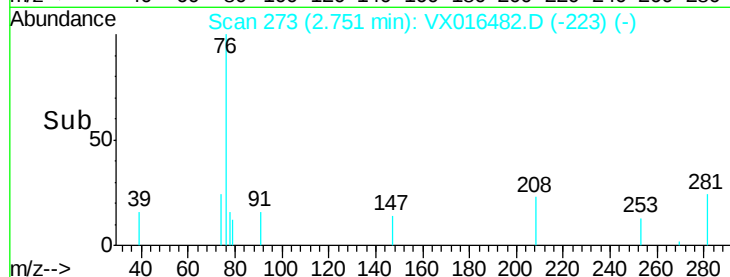
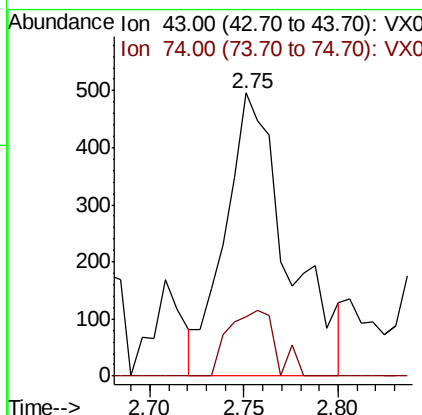
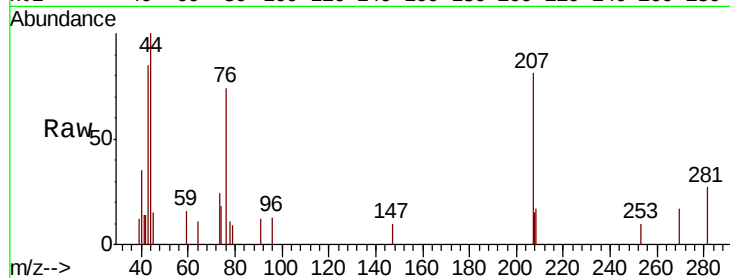




#18
Methyl Acetate
Concen: 0.283 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX016482.D
Acq: 28 May 2020 14:01

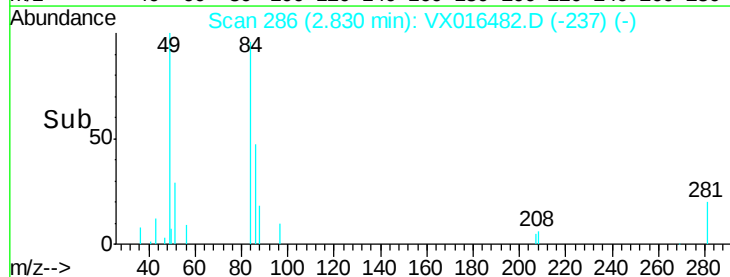
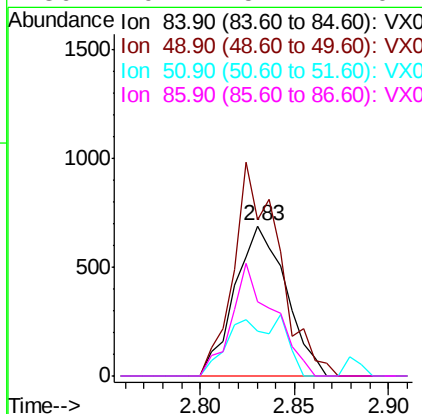
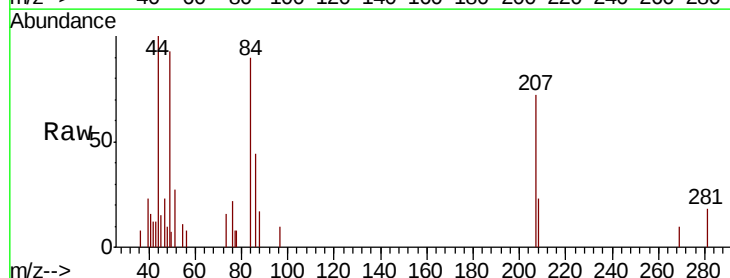
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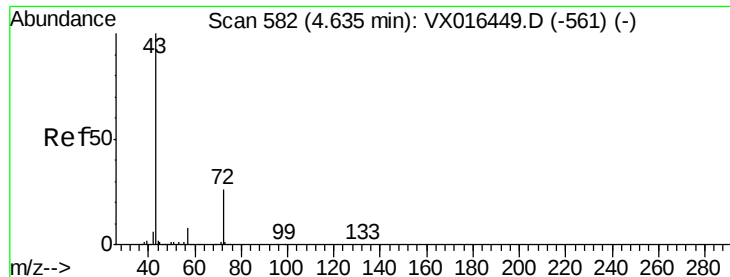
Tot Ion: 43 Resp: 1143
Ion Ratio Lower Upper
43 100
74 17.5 19.7 29.5#



#20
Methylene Chloride
Concen: 0.398 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX016482.D
Acq: 28 May 2020 14:01

Tgt Ion: 84 Resp: 1298
Ion Ratio Lower Upper
84 100
49 104.1 94.5 141.7
51 29.7 30.2 45.4#
86 49.4 51.1 76.7#





#25

2-Butanone

Concen: 2.774 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

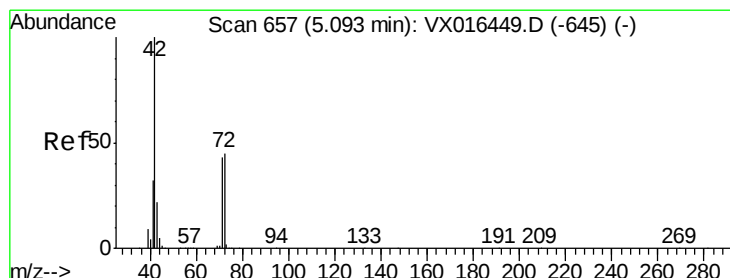
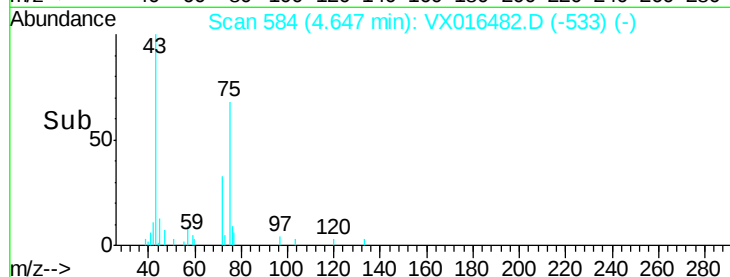
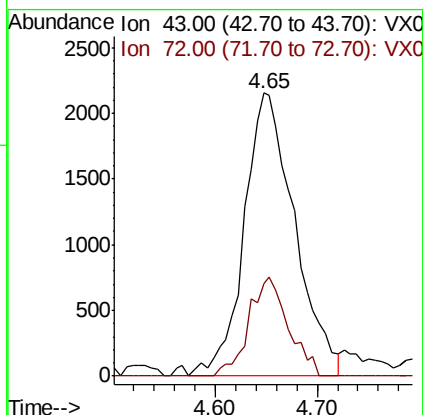
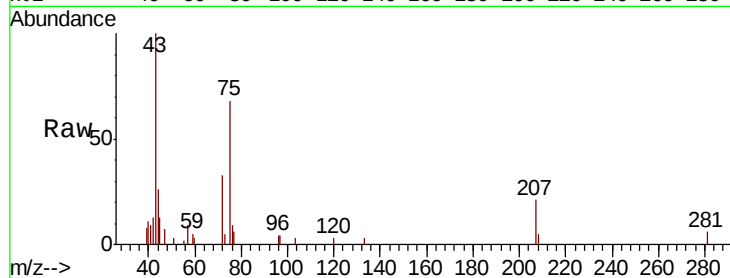
LD-C

Tot Ion: 43 Resp: 7404

Ion Ratio Lower Upper

43 100

72 32.9 21.0 31.6#



#29

Tetrahydrofuran

Concen: 0.628 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

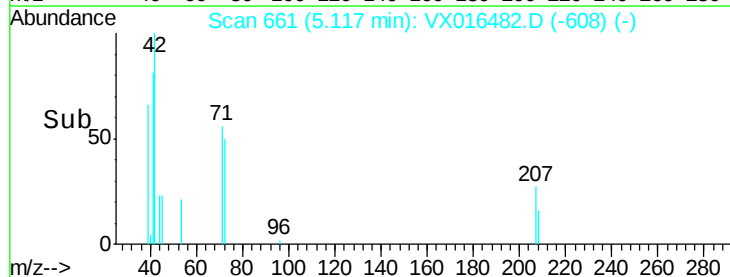
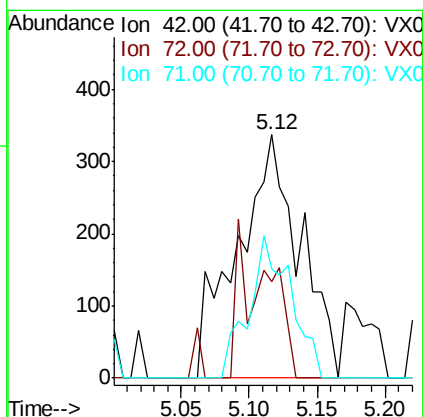
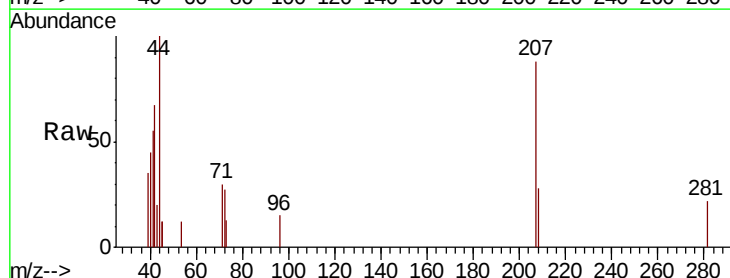
Tgt Ion: 42 Resp: 1083

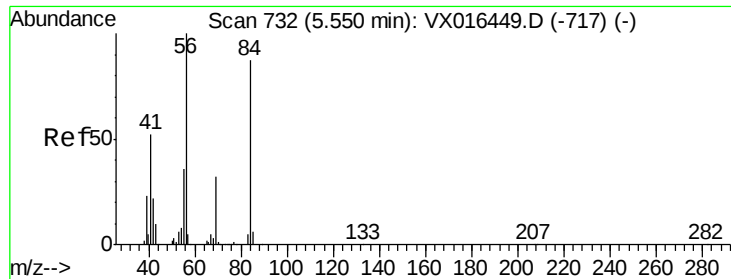
Ion Ratio Lower Upper

42 100

72 17.1 37.0 55.4#

71 39.4 34.1 51.1

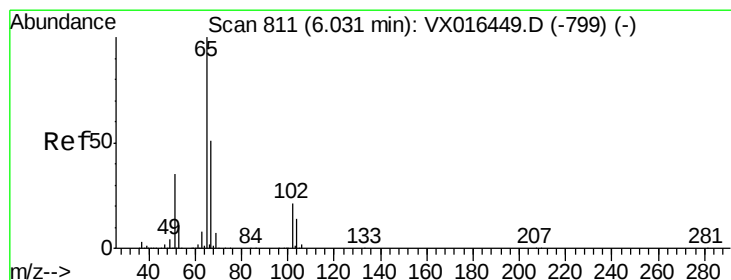
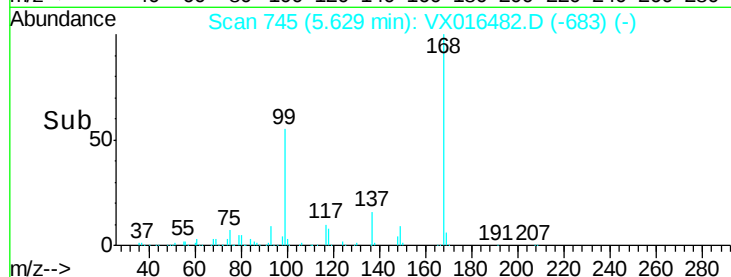
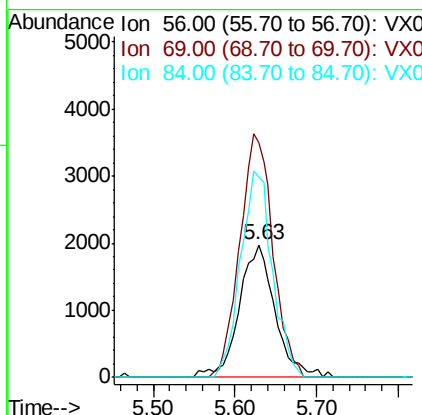
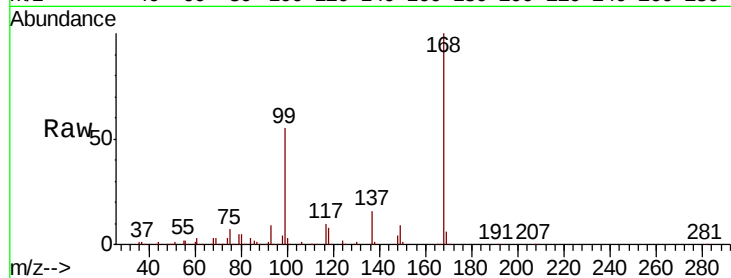




#31
Cyclohexane
Concen: 1.204 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016482.D
Acq: 28 May 2020 14:01

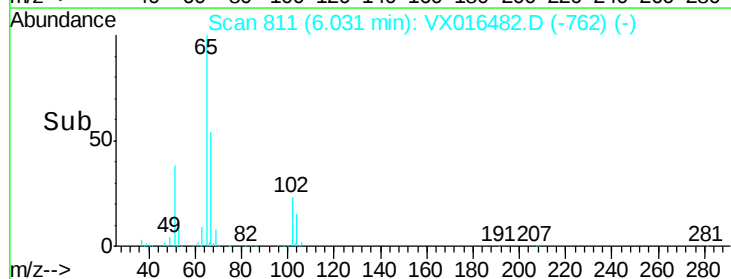
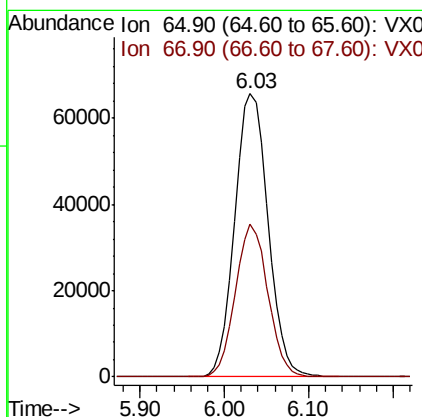
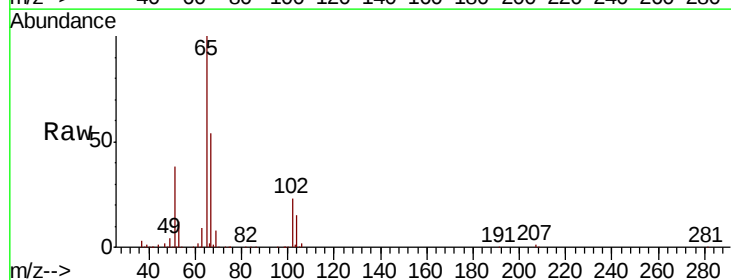
Instrument :
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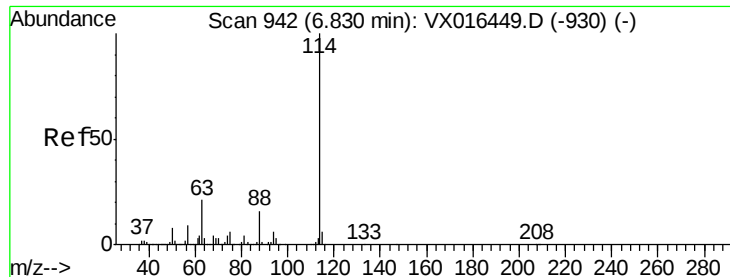
Tot Ion: 56 Resp: 6014
Ion Ratio Lower Upper
56 100
69 176.5 25.7 38.5#
84 150.2 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.989 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016482.D
Acq: 28 May 2020 14:01

Tgt Ion: 65 Resp: 176115
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

LD-C

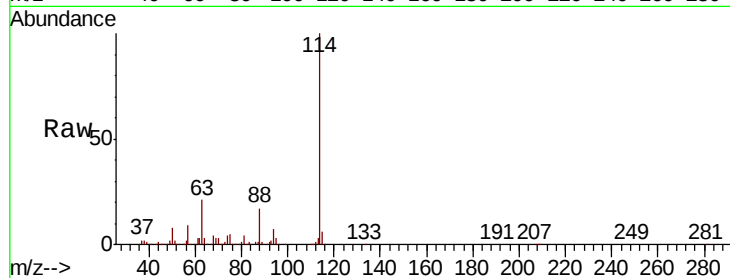
Tot Ion:114 Resp: 474077

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.6

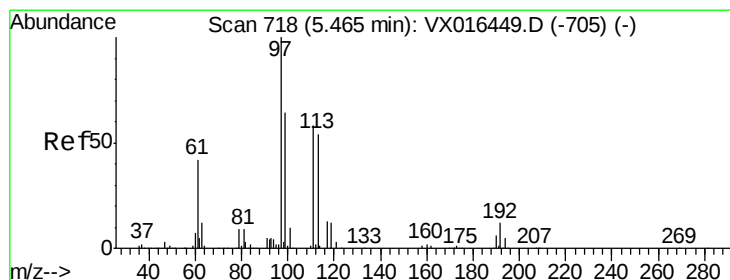
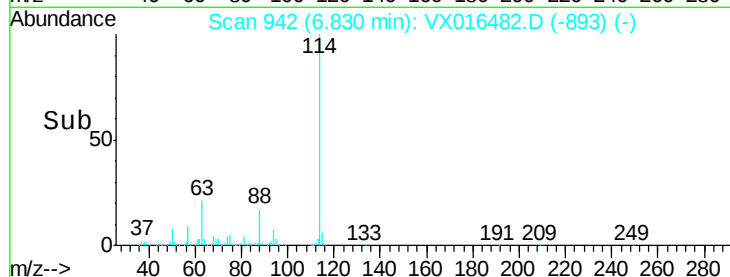
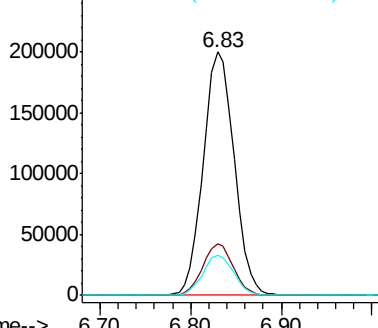
88 16.6 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.612 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

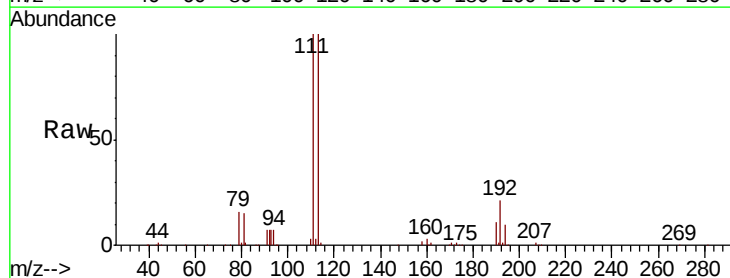
Tgt Ion:113 Resp: 144822

Ion Ratio Lower Upper

113 100

111 102.1 83.0 124.6

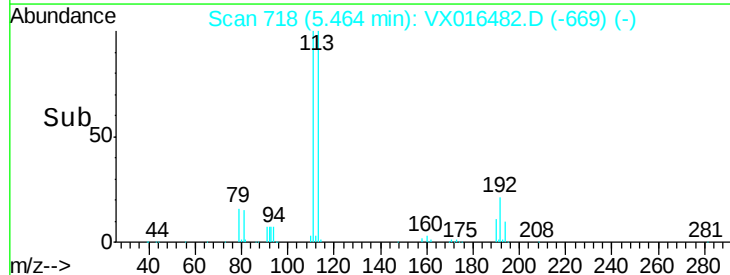
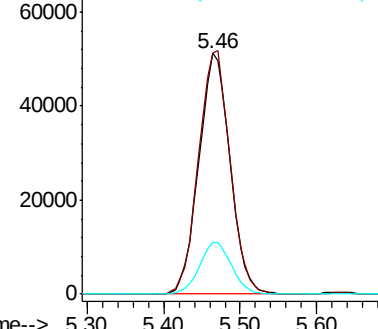
192 22.0 17.7 26.5

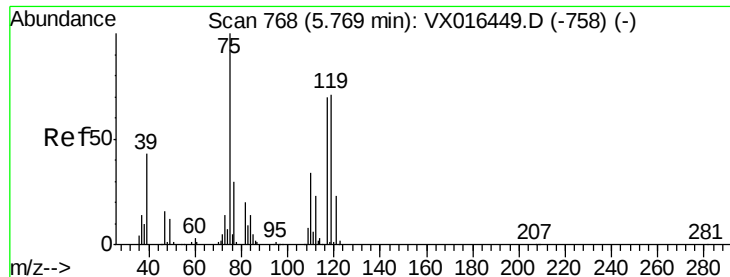


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

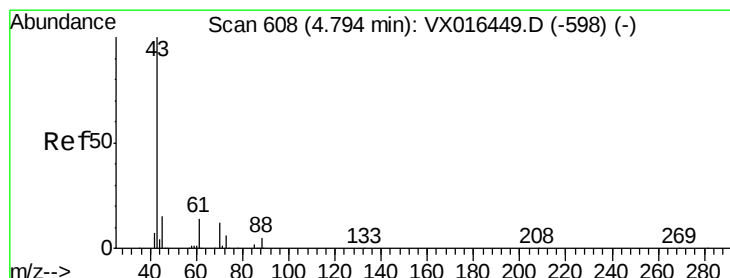
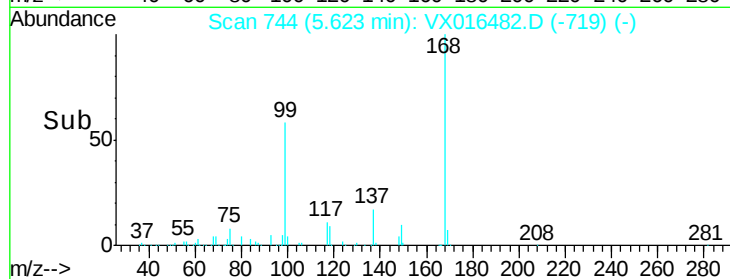
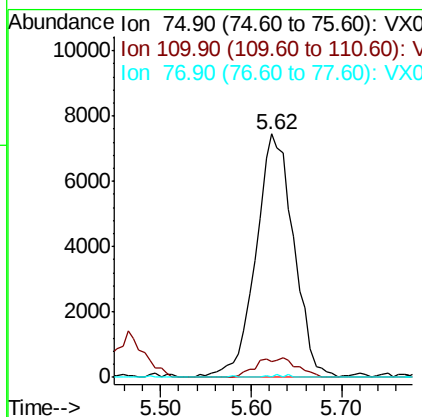
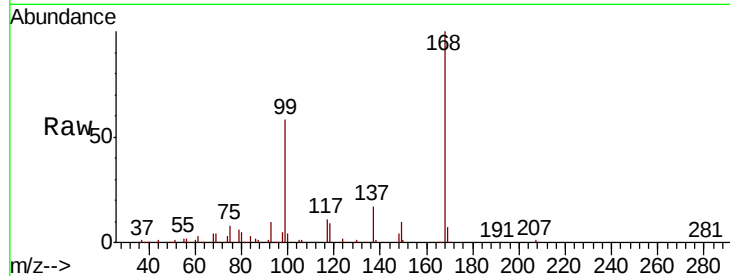




#36
 1,1-Dichloropropene
 Concen: 4.788 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX016482.D
 Acq: 28 May 2020 14:01

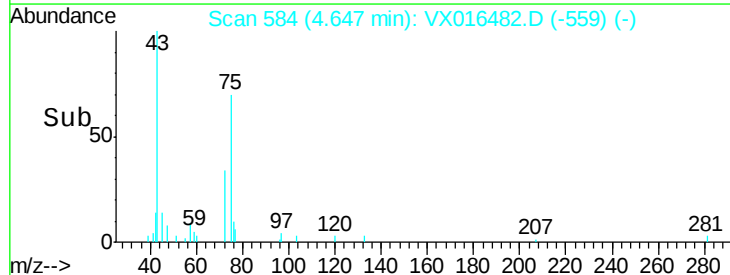
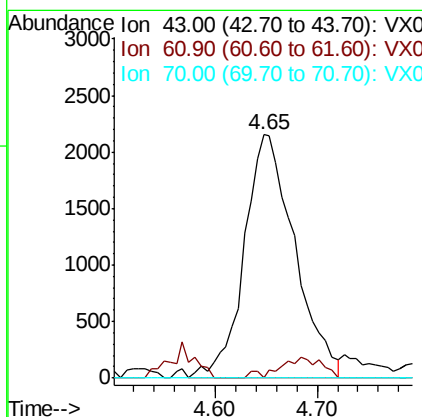
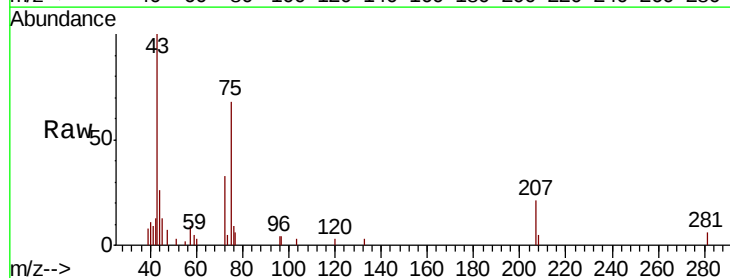
Instrument :
 MSVOA_X
 ClientSampleId :
 LD-C

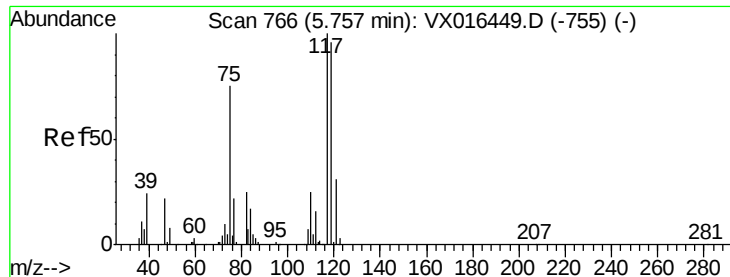
Tot Ion	Ratio	Lower	Upper
75	100		
110	3.9	17.4	52.3#
77	0.1	24.2	36.4#



#37
 Ethyl Acetate
 Concen: 1.374 ug/l
 RT: 4.65 min Scan# 584
 Delta R.T. -0.15 min
 Lab File: VX016482.D
 Acq: 28 May 2020 14:01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.6	11.3	16.9#
70	0.0	9.3	13.9#

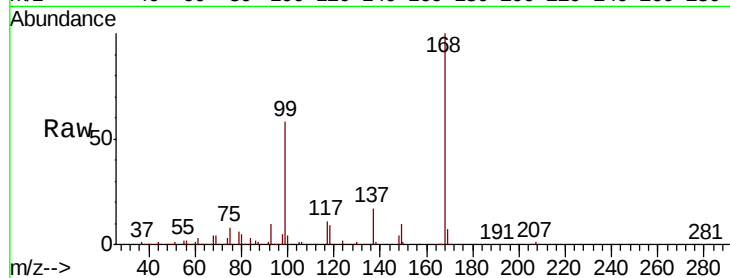




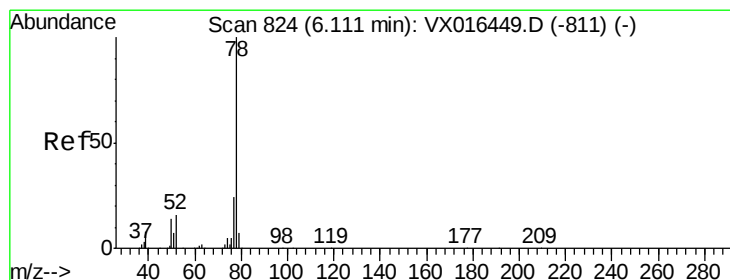
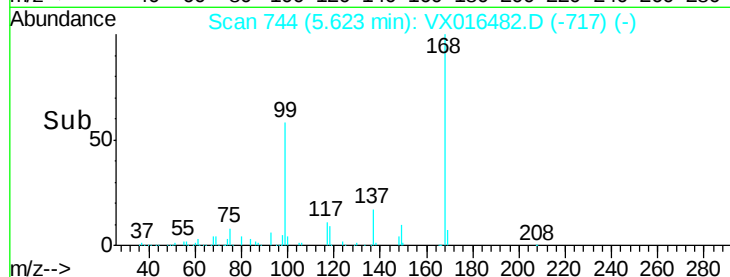
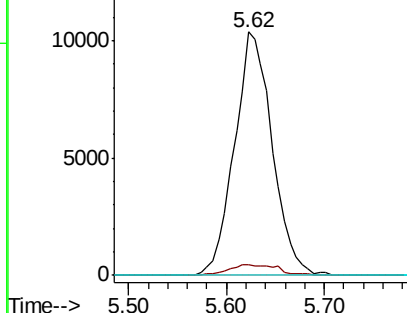
#38
Carbon Tetrachloride
Concen: 5.873 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.13 min
Lab File: VX016482.D
Acq: 28 May 2020 14:01

Instrument :
MSVOA_X
ClientSampled :
LD-C

Tot Ion:117 Resp: 27702
Ion Ratio Lower Upper
117 100
119 4.2 76.3 114.5#
121 0.0 24.6 37.0#

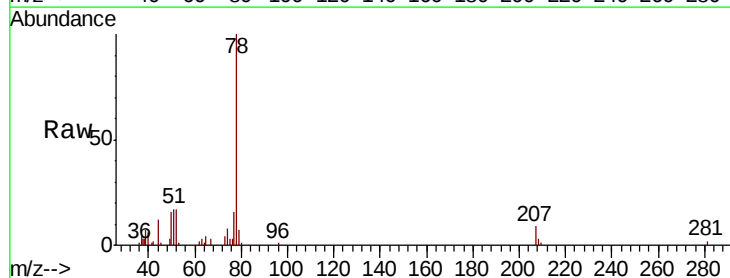


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

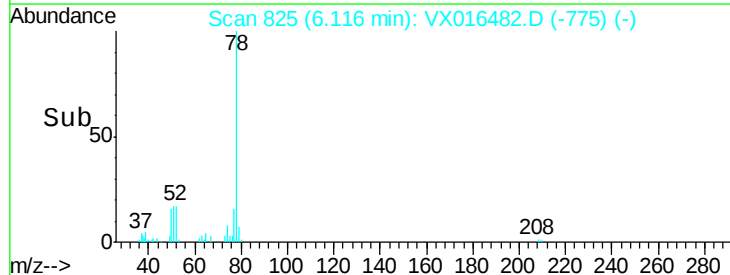
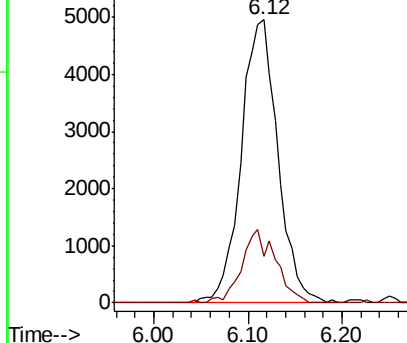


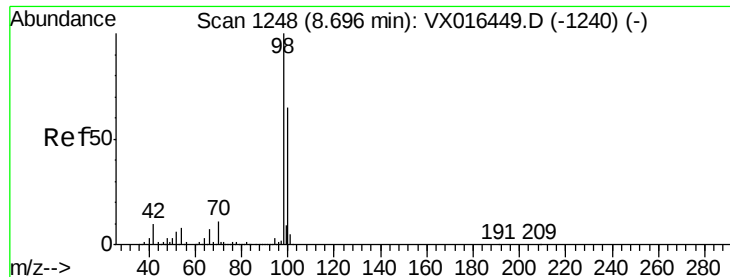
#40
Benzene
Concen: 1.002 ug/l
RT: 6.12 min Scan# 825
Delta R.T. 0.01 min
Lab File: VX016482.D
Acq: 28 May 2020 14:01

Tgt Ion: 78 Resp: 13394
Ion Ratio Lower Upper
78 100
77 16.4 18.9 28.3#



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 52.039 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

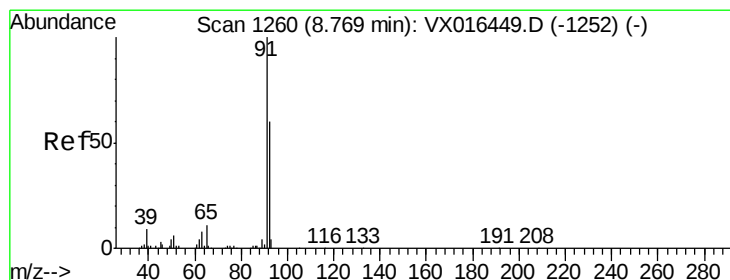
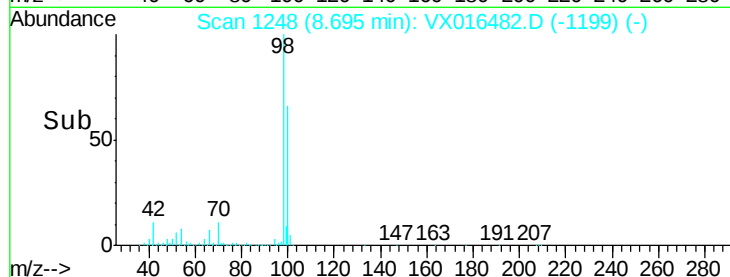
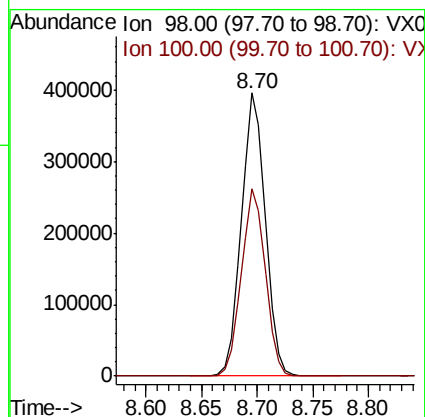
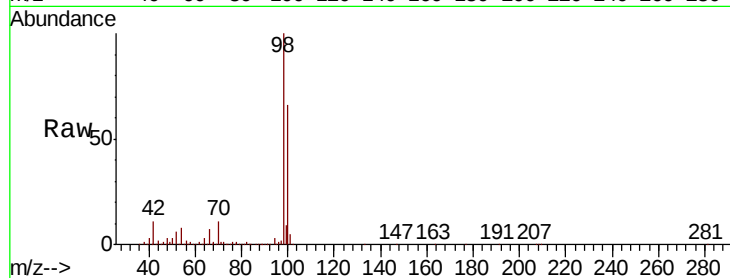
LD-C

Tot Ion: 98 Resp: 591262

Ion Ratio Lower Upper

98 100

100 66.3 53.8 80.6



#52

Toluene

Concen: 0.322 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016482.D

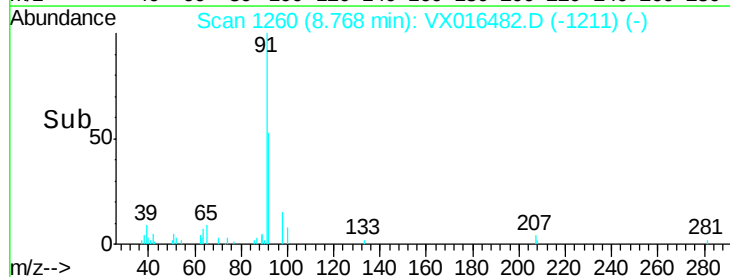
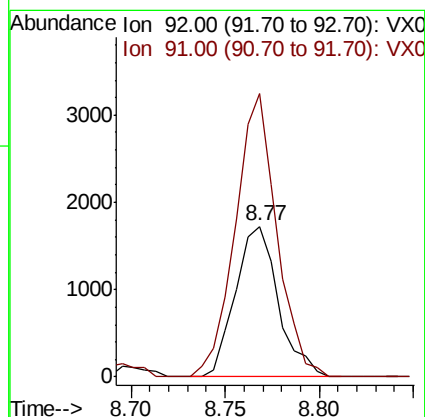
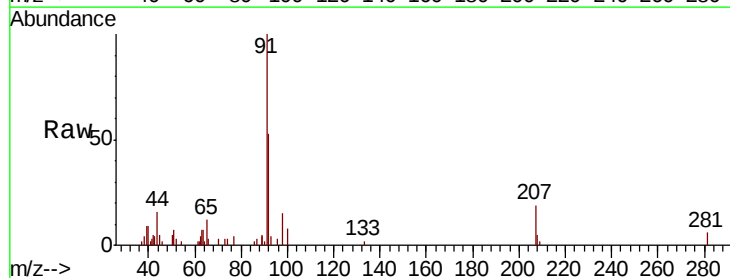
Acq: 28 May 2020 14:01

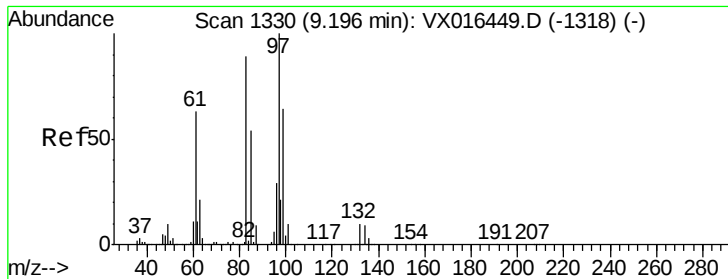
Tgt Ion: 92 Resp: 2718

Ion Ratio Lower Upper

92 100

91 181.7 135.0 202.4





#55

1,1,2-Trichloroethane

Concen: 0.394 ug/l

RT: 9.06 min Scan# 1308

Delta R.T. -0.13 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

LD-C

Tot Ion: 97 Resp: 1322

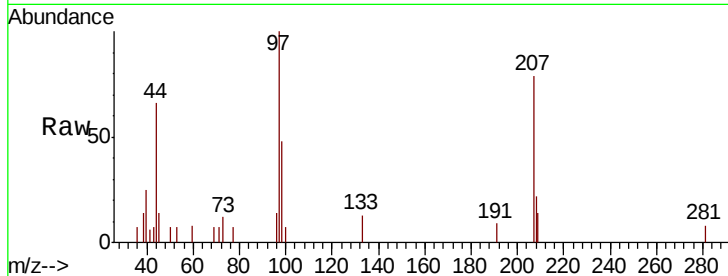
Ion Ratio Lower Upper

97 100

83 0.0 70.9 106.3#

85 0.0 43.4 65.2#

99 0.0 51.0 76.6#

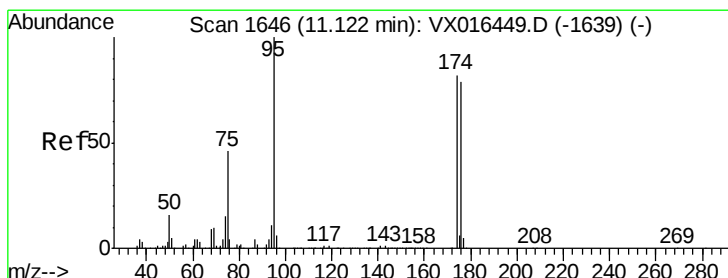
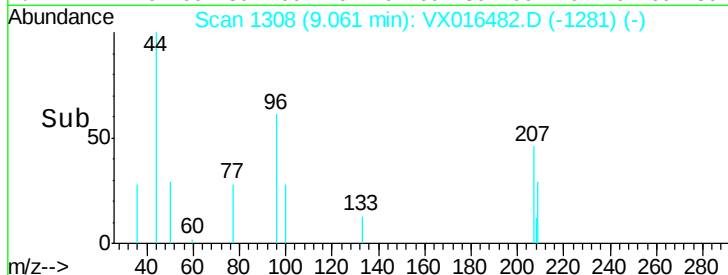
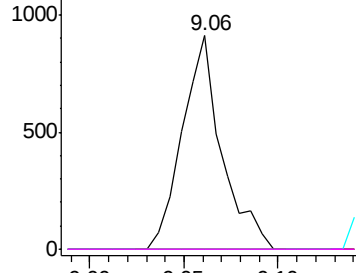


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#62

4-Bromofluorobenzene

Concen: 56.912 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

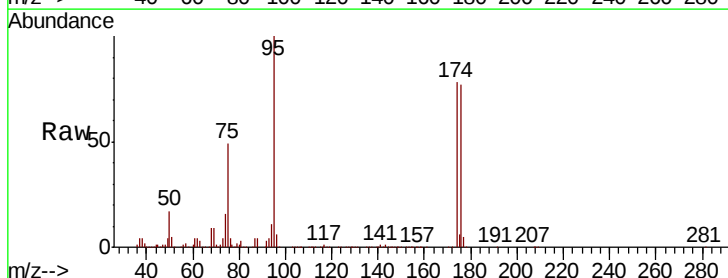
Tgt Ion: 95 Resp: 249856

Ion Ratio Lower Upper

95 100

174 82.7 0.0 163.0

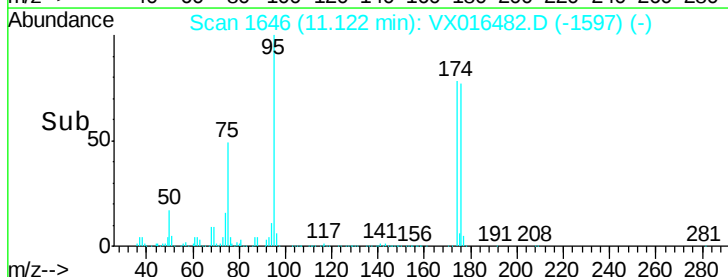
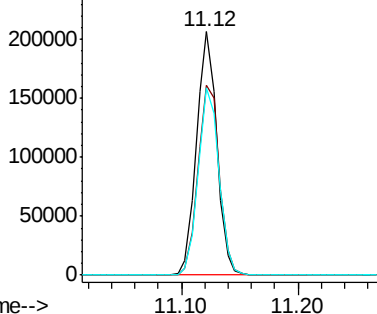
176 79.2 0.0 156.8

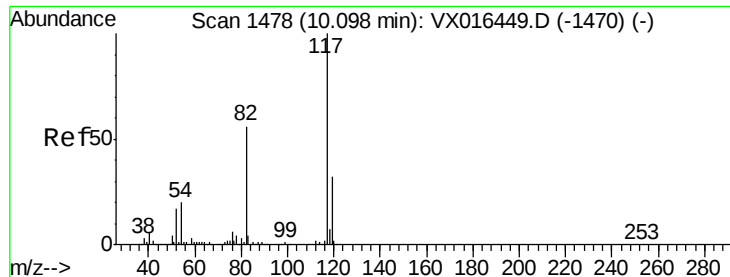


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

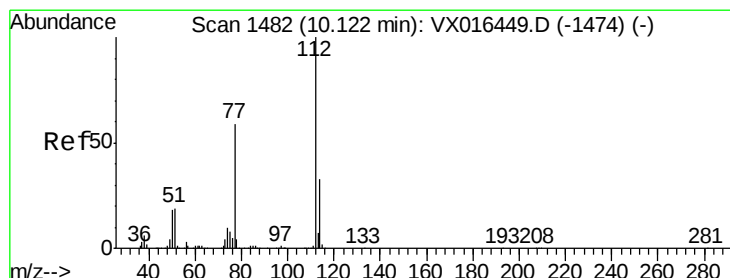
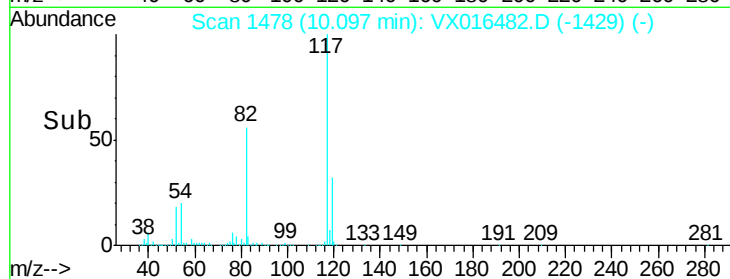
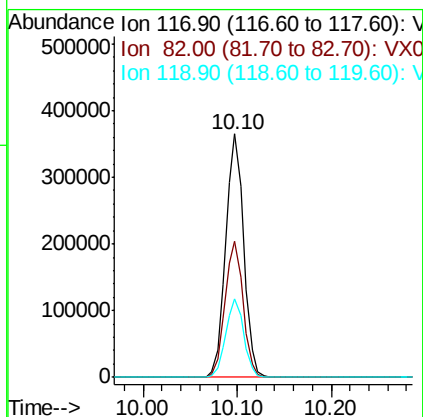
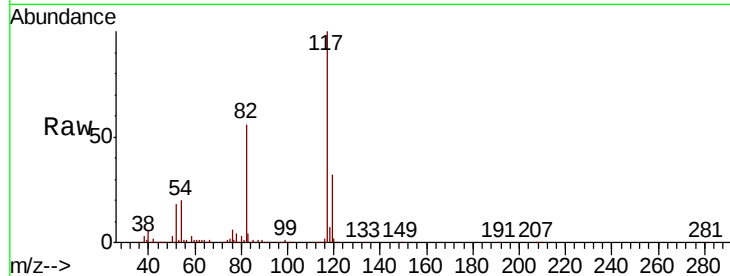




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016482.D
Acq: 28 May 2020 14:01

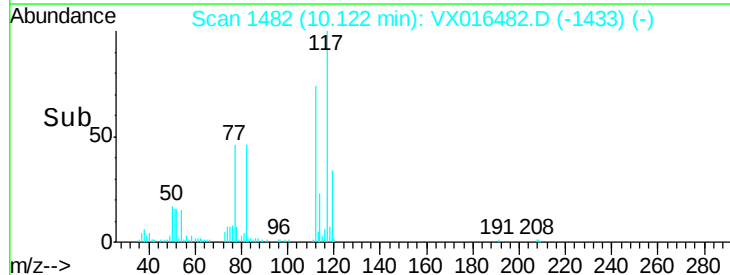
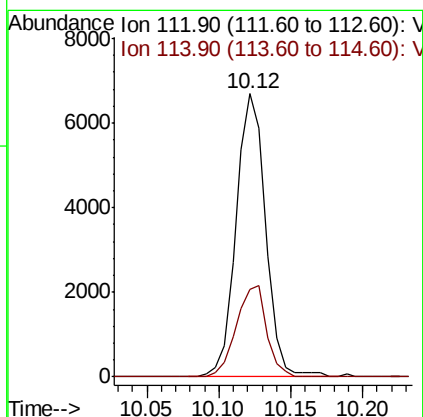
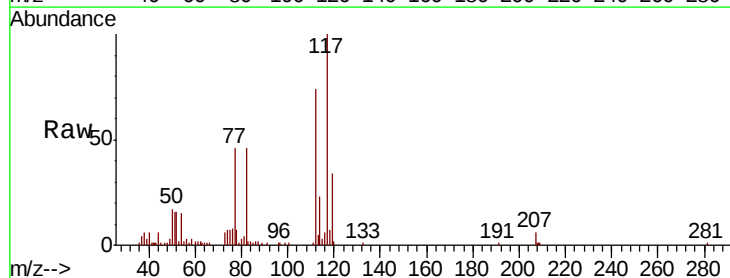
Instrument :
MSVOA_X
ClientSampleId :
LD-C

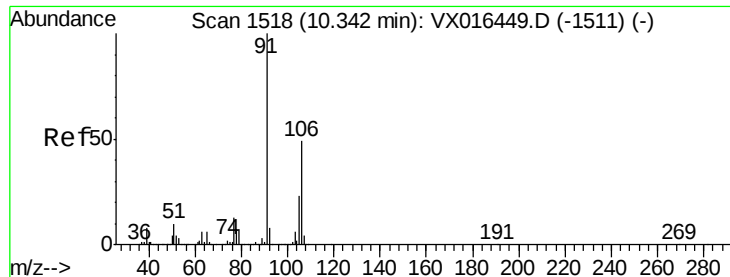
Tot Ion:117 Resp: 482884
Ion Ratio Lower Upper
117 100
82 55.8 45.0 67.6
119 32.4 25.8 38.8



#65
Chlorobenzene
Concen: 0.970 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX016482.D
Acq: 28 May 2020 14:01

Tgt Ion:112 Resp: 9545
Ion Ratio Lower Upper
112 100
114 30.9 26.0 39.0





#68

m/p-Xylenes

Concen: 0.549 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

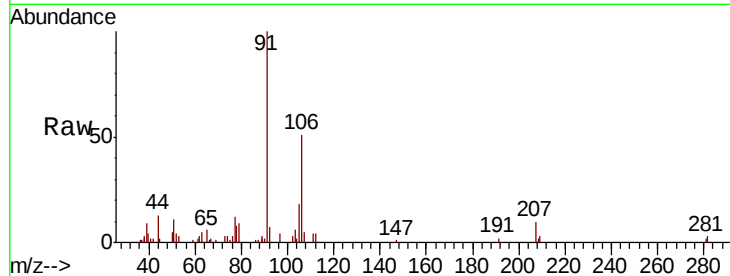
LD-C

Tot Ion:106 Resp: 3565

Ion Ratio Lower Upper

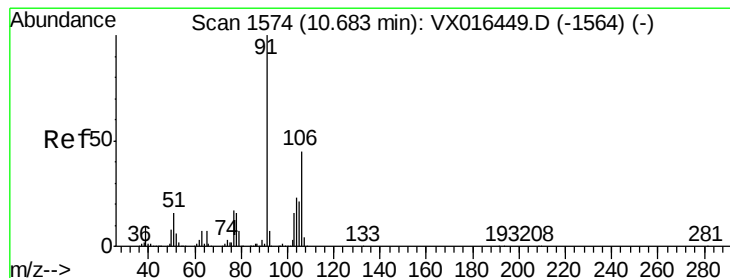
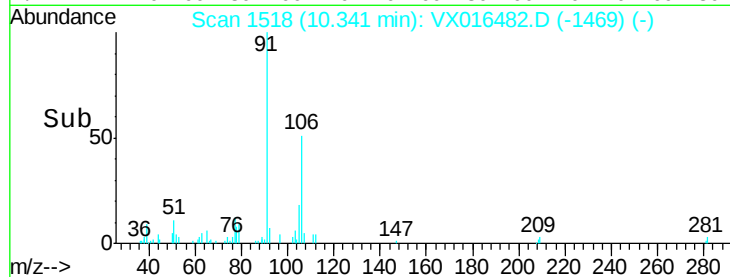
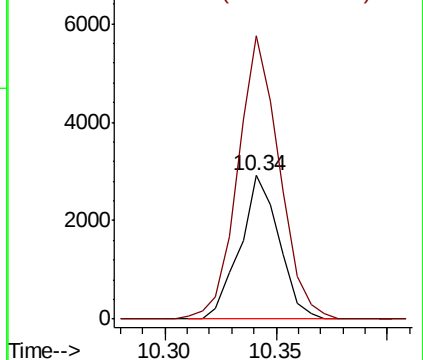
106 100

91 210.2 163.8 245.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.248 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX016482.D

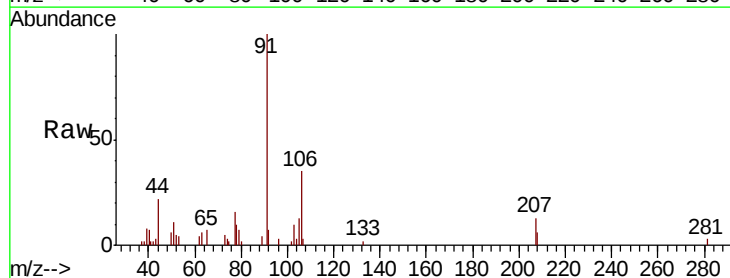
Acq: 28 May 2020 14:01

Tgt Ion:106 Resp: 1561

Ion Ratio Lower Upper

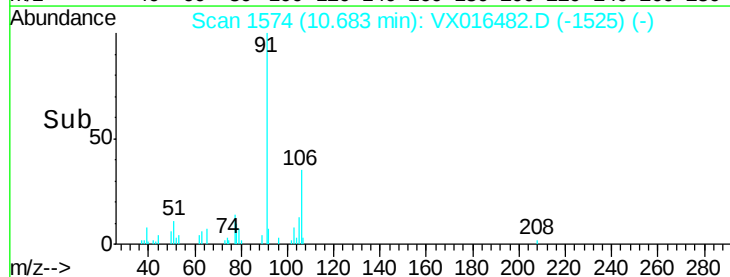
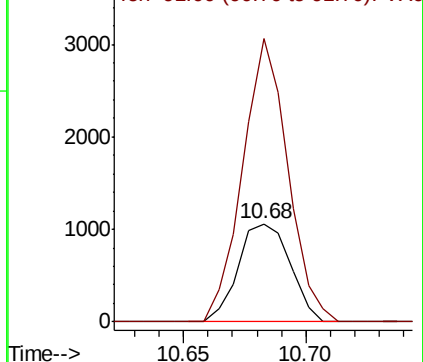
106 100

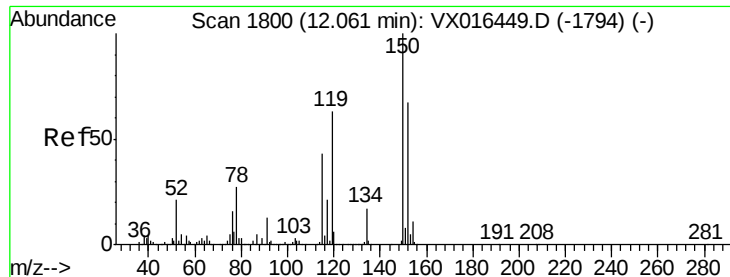
91 252.0 109.6 328.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

LD-C

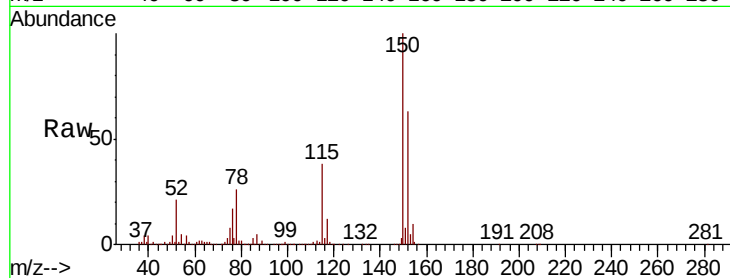
Tot Ion:152 Resp: 252312

Ion Ratio Lower Upper

152 100

115 58.9 39.9 119.6

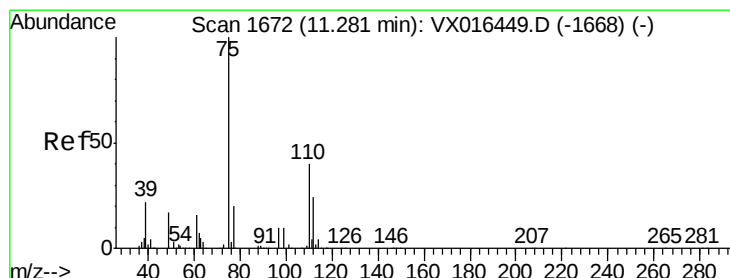
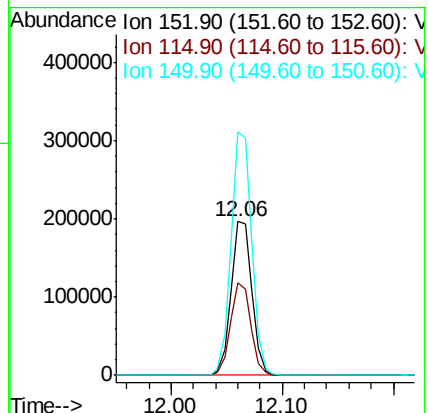
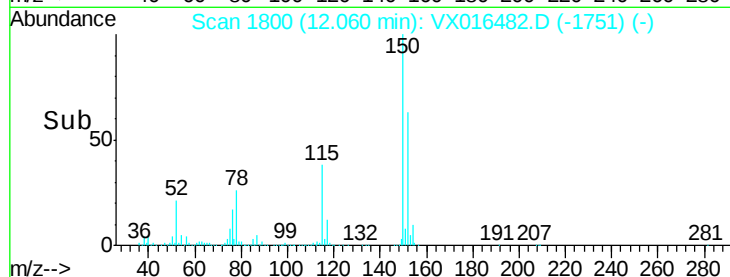
150 157.3 0.0 341.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.220 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016482.D

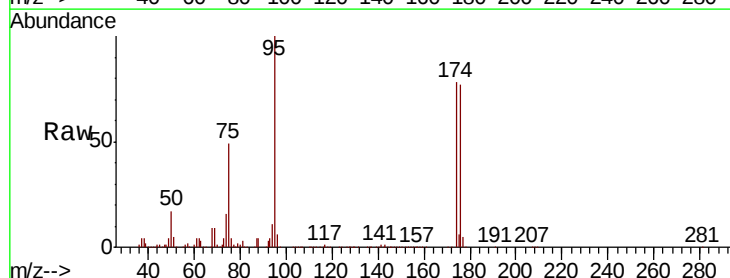
Acq: 28 May 2020 14:01

Tgt Ion: 75 Resp: 123229

Ion Ratio Lower Upper

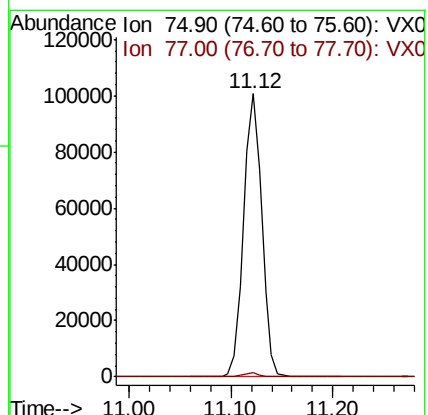
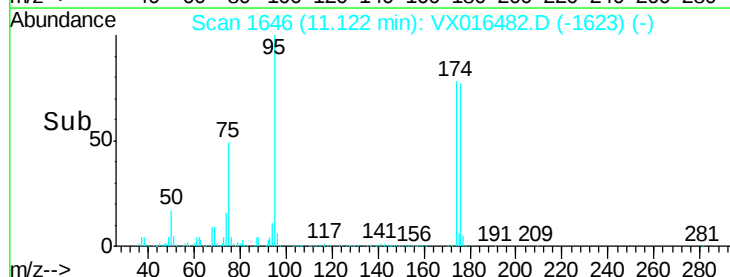
75 100

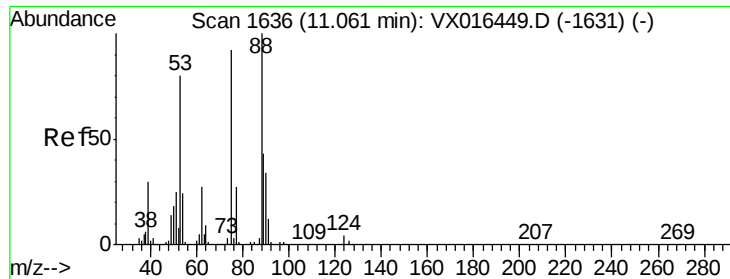
77 1.3 21.3 63.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 54.657 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

LD-C

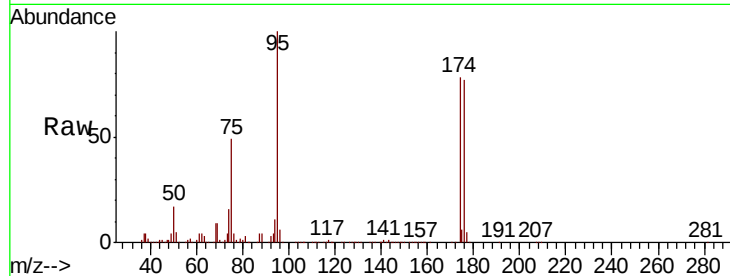
Tot Ion: 75 Resp: 123229

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

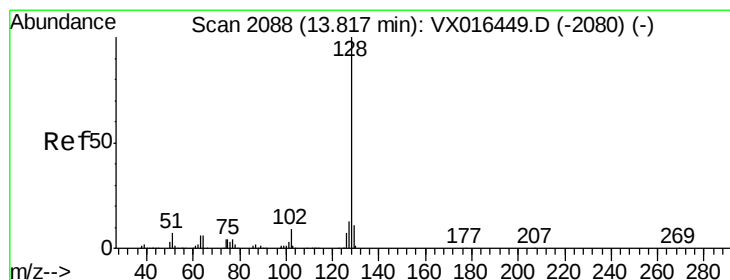
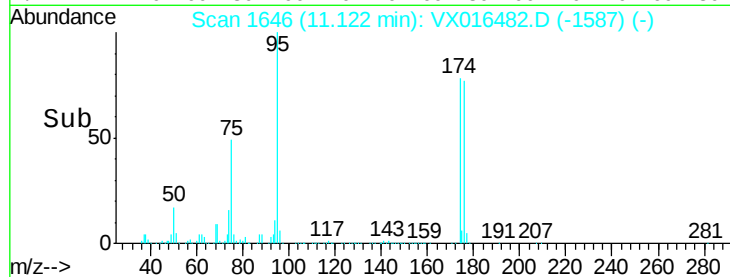
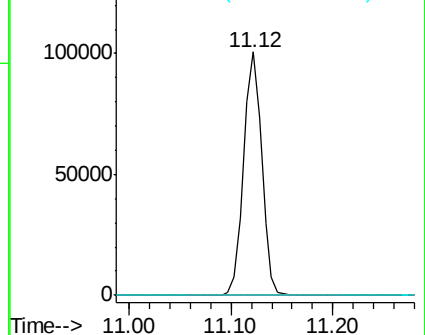
89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 7.218 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016482.D

Acq: 28 May 2020 14:01

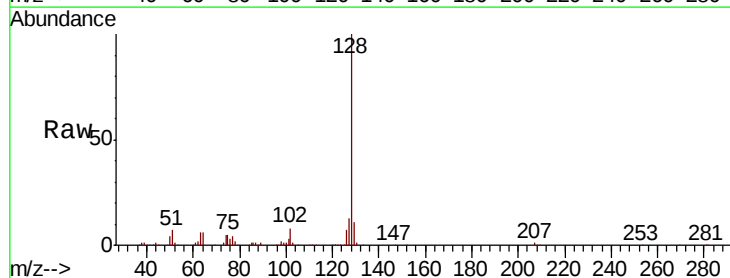
Tgt Ion: 128 Resp: 126472

Ion Ratio Lower Upper

128 100

127 12.8 10.6 15.8

129 11.2 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

