

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050420\
 Data File : VY002567.D
 Acq On : 05 May 2020 02:20
 Operator : SY/MD
 Sample : L2480-02
 Misc : 6.75G/5ML/MSVOA Y/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 FK-0D015-03-015

Quant Time: May 05 07:19:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
 Quant Title : SW846 8260
 QLast Update : Mon May 04 12:22:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	350460	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.71	114	567698	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	511481	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	252011	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.17	65	171973	58.36	ug/l	0.00
Spiked Amount			Recovery	=	116.72%	
35) Dibromofluoromethane	7.75	113	125377	38.62	ug/l	0.01
Spiked Amount			Recovery	=	77.24%	
50) Toluene-d8	10.20	98	662899	52.28	ug/l	0.00
Spiked Amount			Recovery	=	104.56%	
62) 4-Bromofluorobenzene	12.49	95	220157	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	

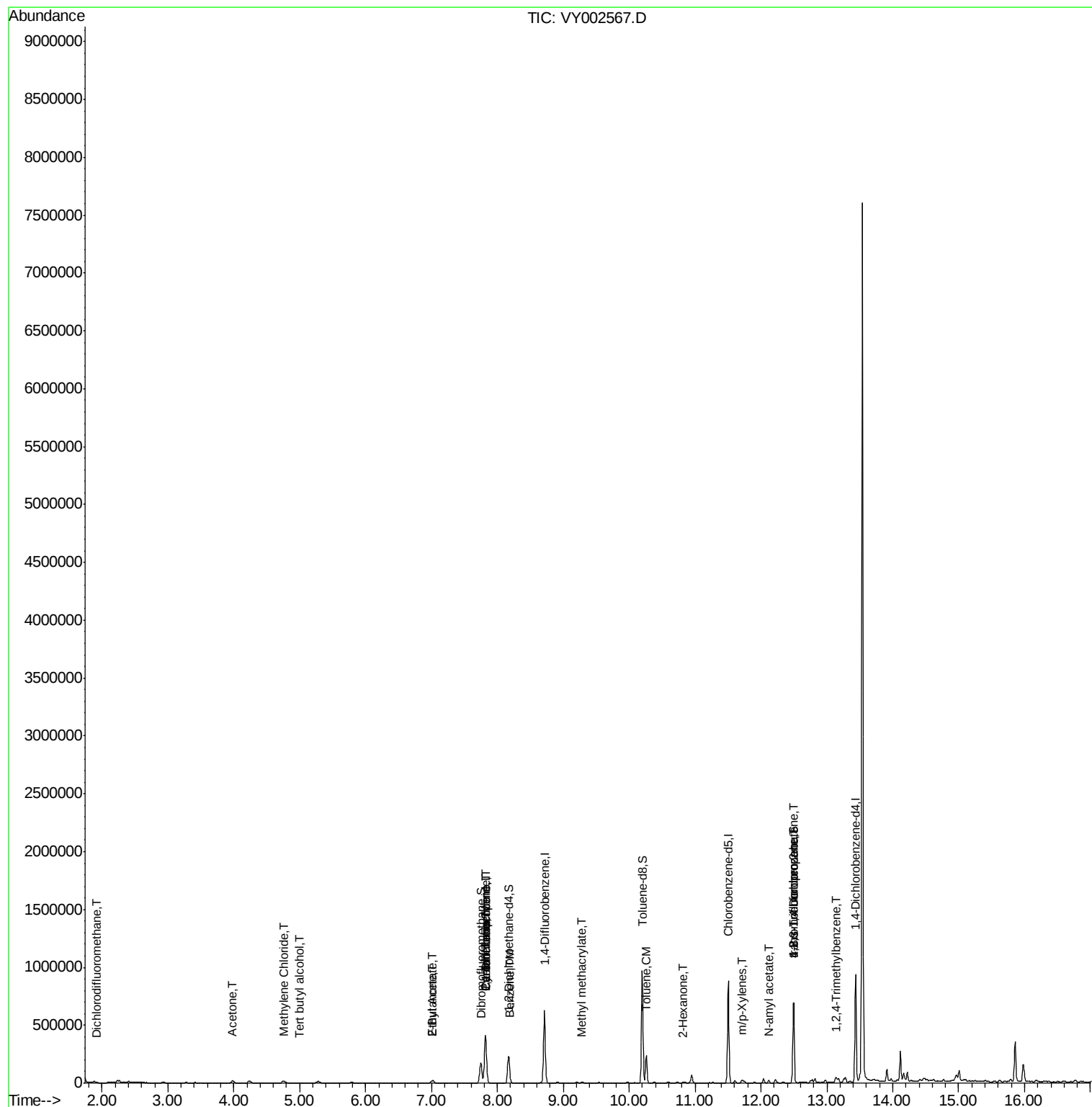
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	126	1.826	ug/l #	43
11) Tert butyl alcohol	4.99	59	2600	8.576	ug/l #	90
16) Acetone	3.98	43	34344	56.474	ug/l	99
20) Methylene Chloride	4.75	84	14500	4.264	ug/l	92
25) 2-Butanone	7.02	43	6717	6.747	ug/l	99
31) Cyclohexane	7.82	56	7594	1.434	ug/l #	5
36) 1,1-Dichloropropene	7.82	75	22870	4.806	ug/l #	48
37) Ethyl Acetate	7.02	43	6717	2.747	ug/l #	86
38) Carbon Tetrachloride	7.82	117	31832	6.127	ug/l #	15
40) Benzene	8.19	78	13867	1.009	ug/l	96
48) Methyl methacrylate	9.28	41	3217	1.550	ug/l #	34
52) Toluene	10.26	92	103215	11.684	ug/l	96
59) 2-Hexanone	10.82	43	7665	4.713	ug/l #	22
68) m/p-Xylenes	11.71	106	8168	1.236	ug/l	98
74) N-amyl acetate	12.12	43	11870	3.021	ug/l #	46
76) 1,2,3-Trichloropropane	12.49	75	106949	47.755	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	106949	95.758	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.13	105	21790	1.615	ug/l	84

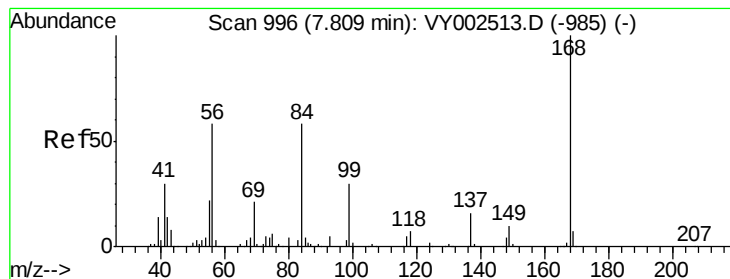
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

Instrument :

MSVOA_Y

ClientSampleId :

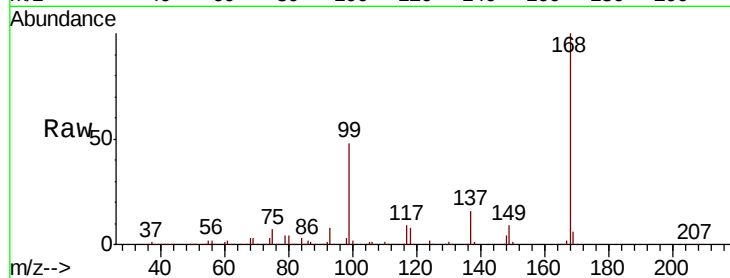
FK-0D015-03-015

Tot Ion:168 Resp: 350460

Ion Ratio Lower Upper

168 100

99 48.1 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.82

150000

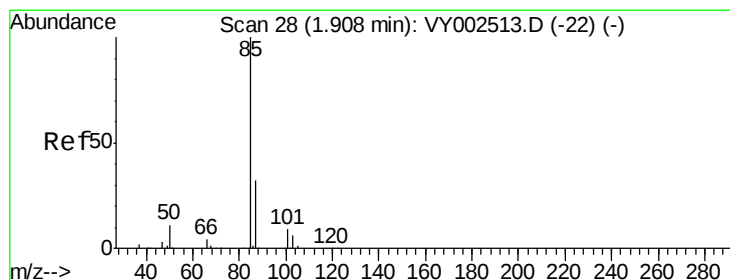
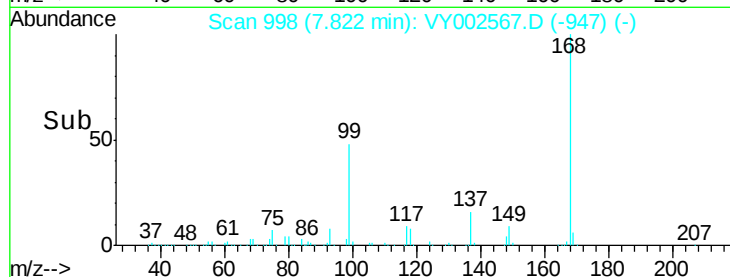
100000

50000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 1.826 ug/l

RT: 1.91 min Scan# 29

Delta R.T. 0.01 min

Lab File: VY002567.D

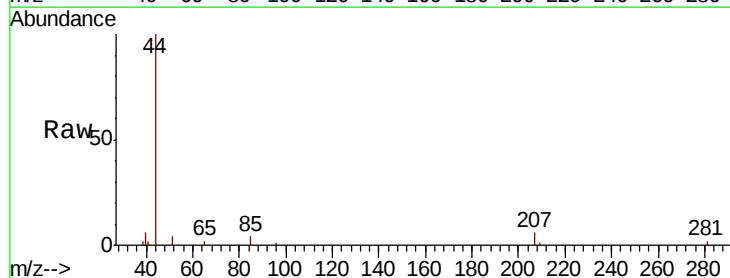
Acq: 05 May 2020 02:20

Tgt Ion: 85 Resp: 126

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VY002513.D (-22) (-)

Ion 86.90 (86.60 to 87.60): VY002513.D (-22) (-)

1.91

150

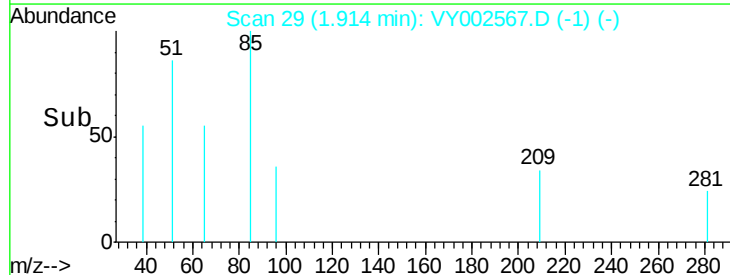
100

50

0

1.88 1.90 1.92 1.94

Time-->

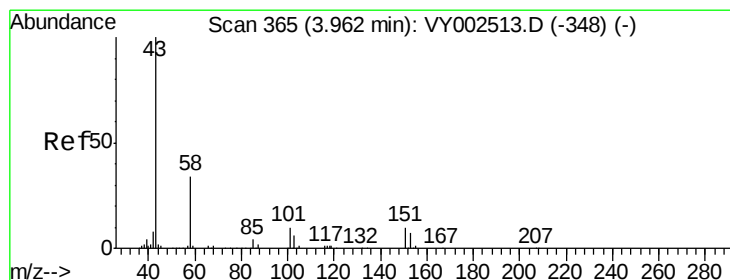
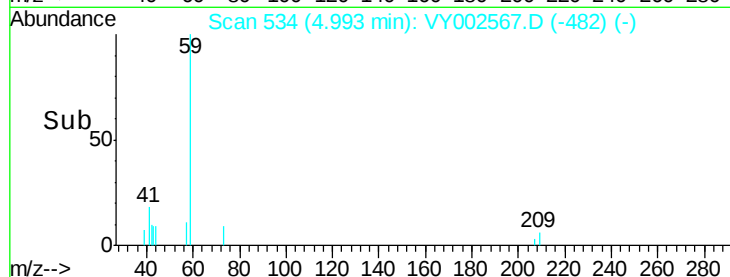
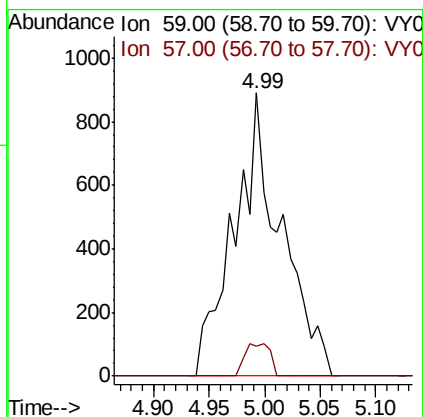
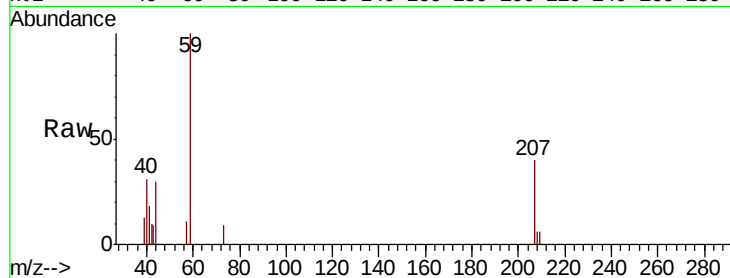




#11
Tert butyl alcohol
Concen: 8.576 ug/l
RT: 4.99 min Scan# 534
Delta R.T. 0.02 min
Lab File: VY002567.D
Acq: 05 May 2020 02:20

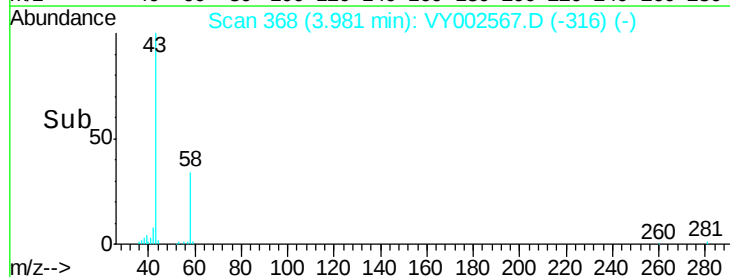
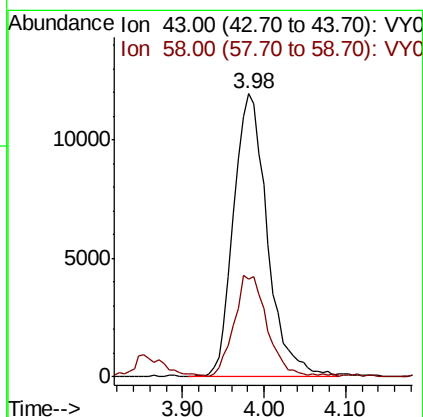
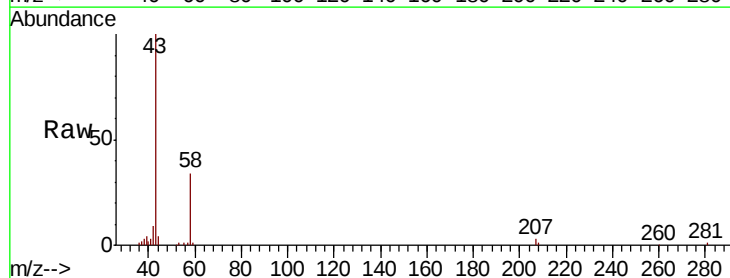
Instrument :
MSVOA_Y
ClientSampleId :
FK-0D015-03-015

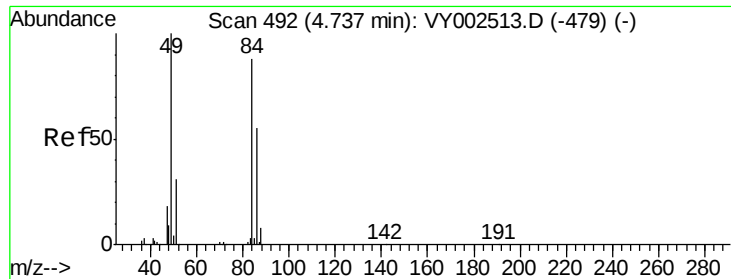
Tot Ion: 59 Resp: 2600
Ion Ratio Lower Upper
59 100
57 6.2 7.8 11.6#



#16
Acetone
Concen: 56.474 ug/l
RT: 3.98 min Scan# 368
Delta R.T. 0.02 min
Lab File: VY002567.D
Acq: 05 May 2020 02:20

Tgt Ion: 43 Resp: 34344
Ion Ratio Lower Upper
43 100
58 34.4 26.9 40.3

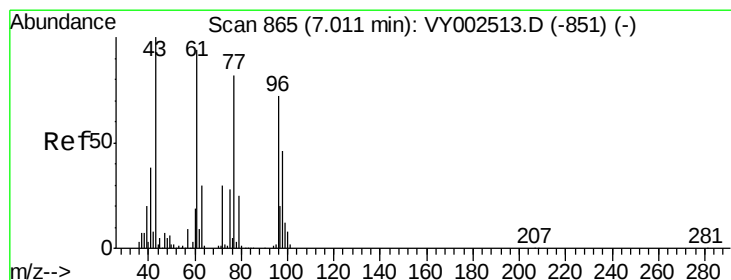
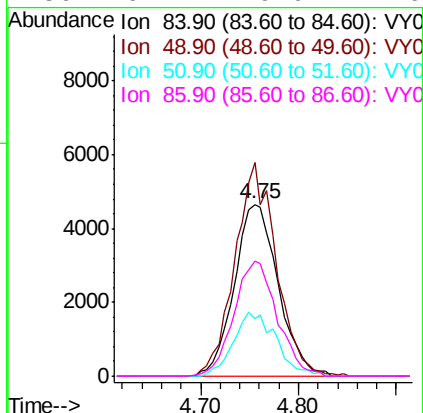
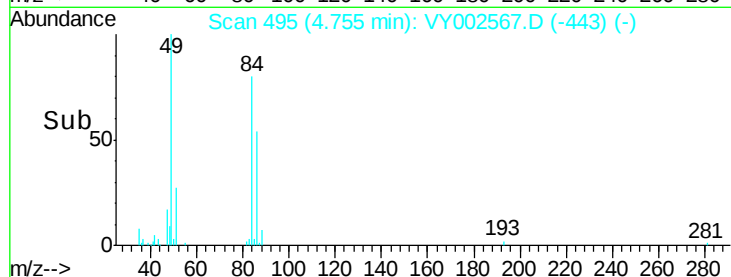
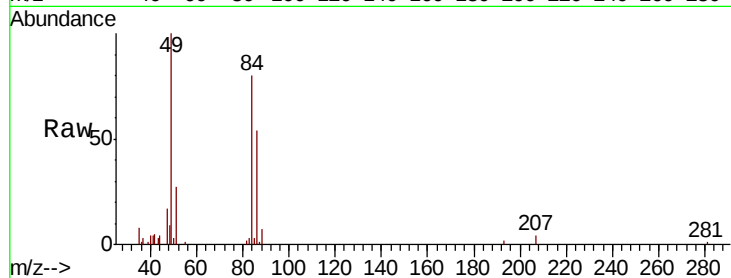




#20
Methvlene Chloride
Concen: 4.264 ug/l
RT: 4.75 min Scan# 495
Delta R.T. 0.02 min
Lab File: VY002567.D
Acq: 05 May 2020 02:20

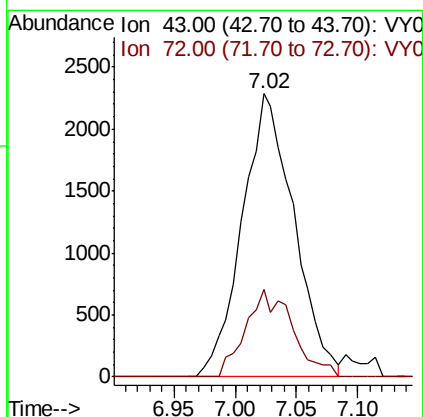
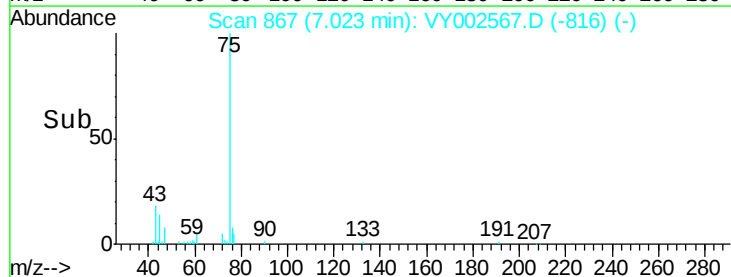
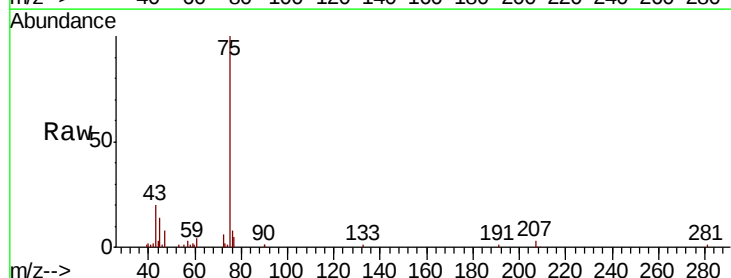
Instrument :
MSVOA_Y
ClientSampleId :
FK-0D015-03-015

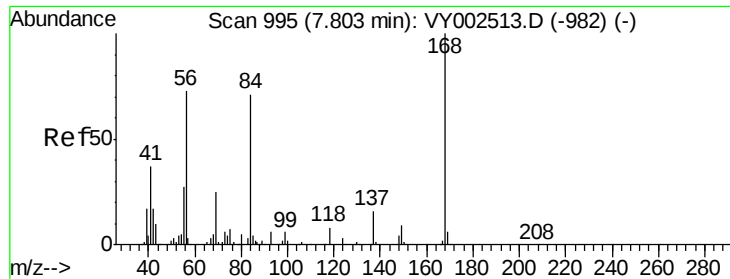
Tot Ion:	84	Resp:	14500
Ion	Ratio	Lower	Upper
84	100		
49	124.4	90.5	135.7
51	33.6	28.3	42.5
86	67.1	49.9	74.9



#25
2-Butanone
Concen: 6.747 ug/l
RT: 7.02 min Scan# 867
Delta R.T. 0.01 min
Lab File: VY002567.D
Acq: 05 May 2020 02:20

Tgt Ion:	43	Resp:	6717
Ion	Ratio	Lower	Upper
43	100		
72	30.7	24.1	36.1





#31

Cyclohexane

Concen: 1.434 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

Instrument :

MSVOA_Y

ClientSampleId :

FK-0D015-03-015

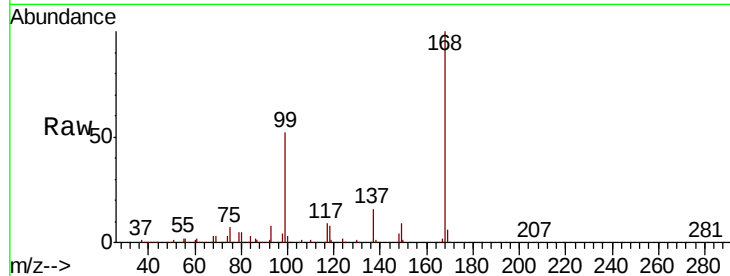
Tot Ion: 56 Resp: 7594

Ion Ratio Lower Upper

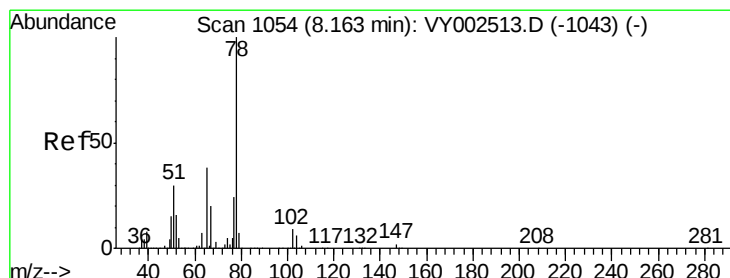
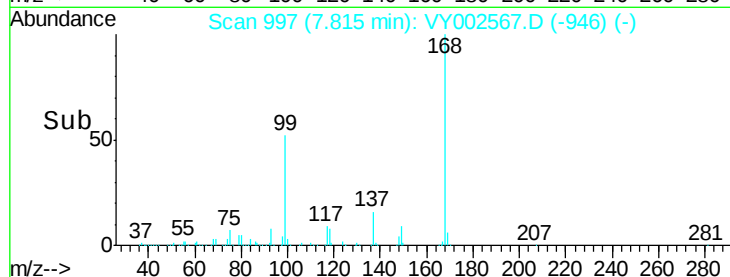
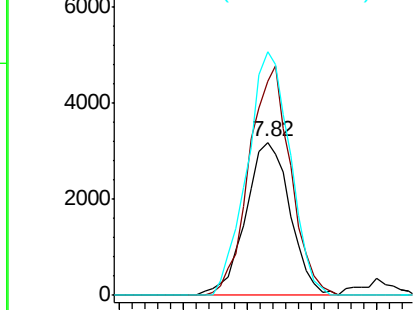
56 100

69 140.3 27.6 41.4#

84 159.2 77.7 116.5#



Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 58.361 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY002567.D

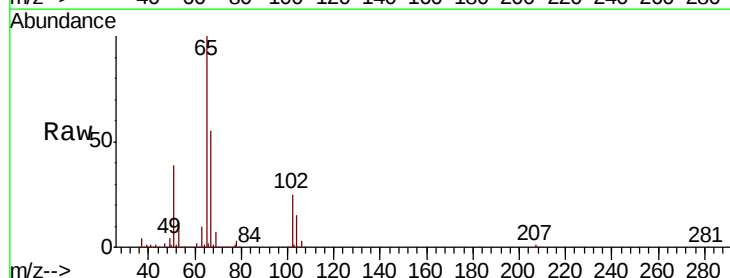
Acq: 05 May 2020 02:20

Tgt Ion: 65 Resp: 171973

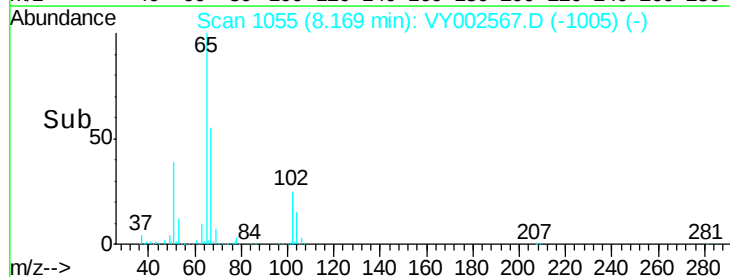
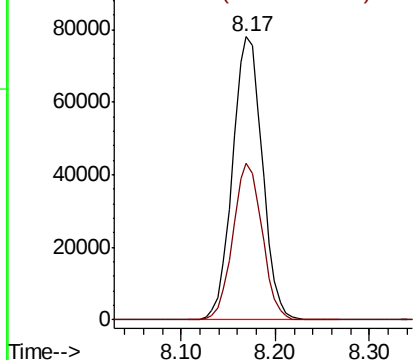
Ion Ratio Lower Upper

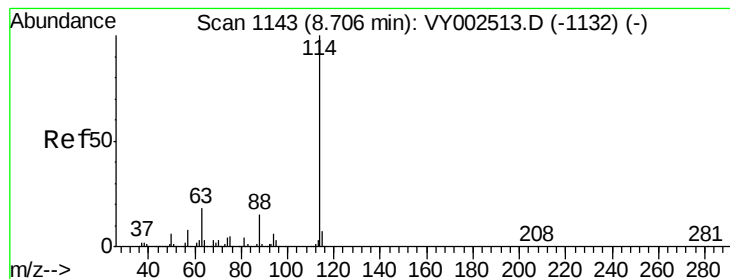
65 100

67 54.3 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

Instrument :

MSVOA_Y

ClientSampleId :

FK-0D015-03-015

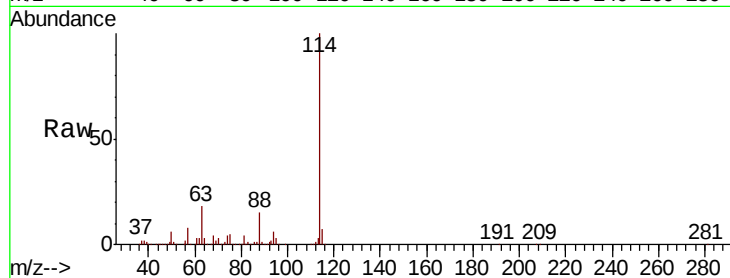
Tot Ion:114 Resp: 567698

Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.4

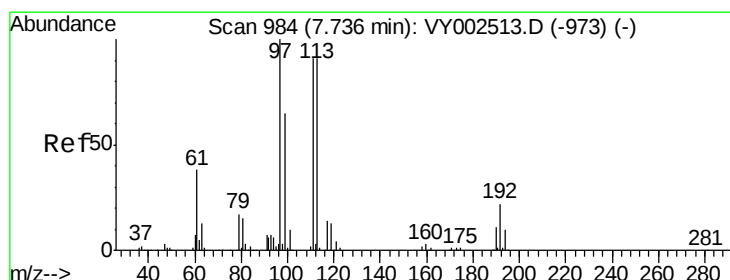
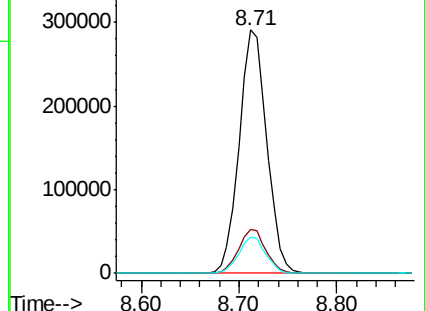
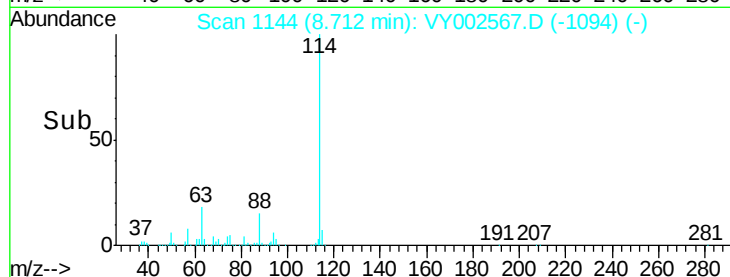
88 14.8 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 38.617 ug/l

RT: 7.75 min Scan# 986

Delta R.T. 0.01 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

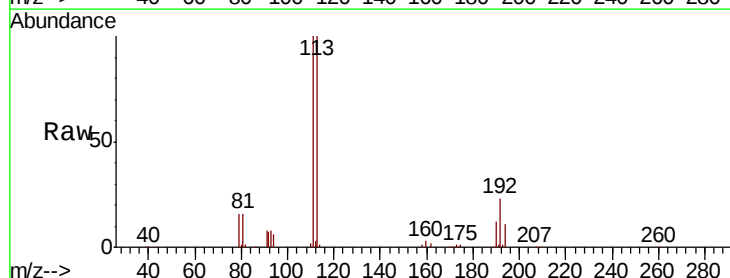
Tgt Ion:113 Resp: 125377

Ion Ratio Lower Upper

113 100

111 100.5 81.8 122.6

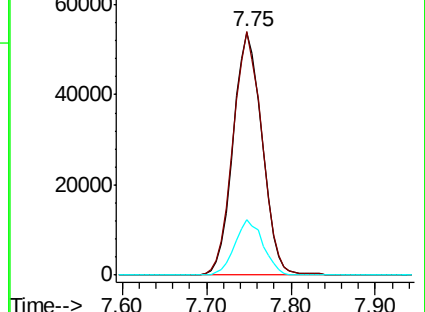
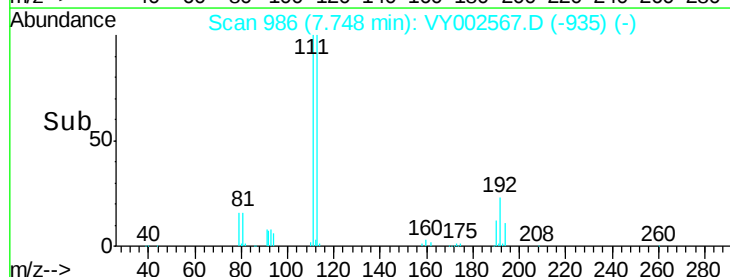
192 22.2 18.2 27.4

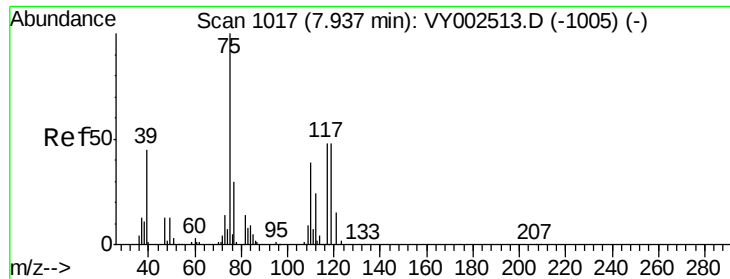


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.806 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.12 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

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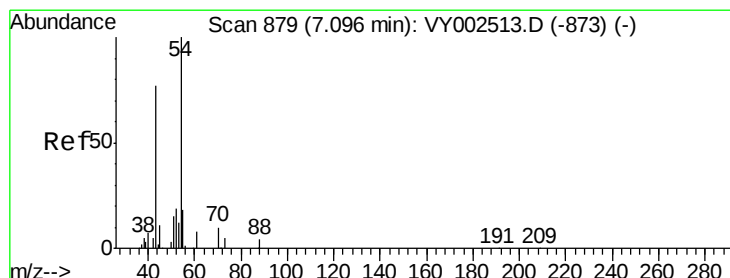
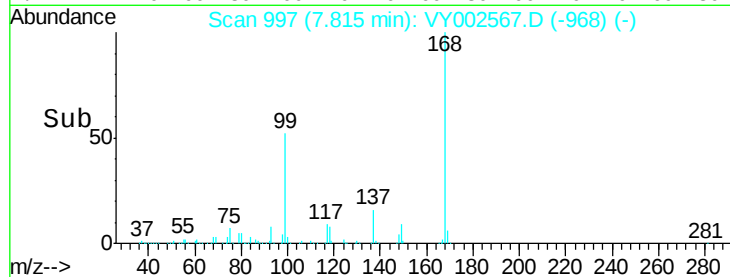
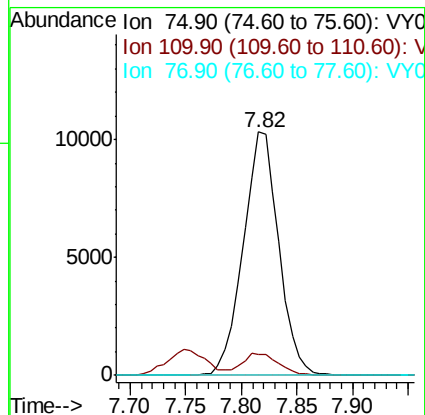
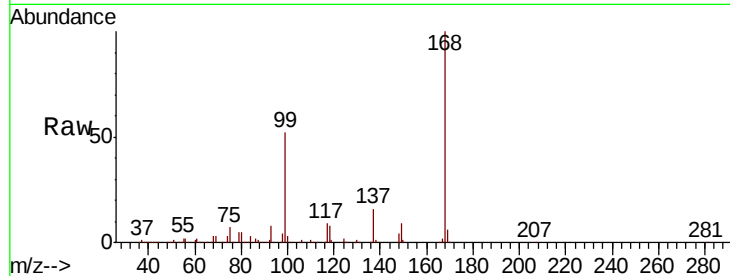
Tot Ion: 75 Resp: 22870

Ion Ratio Lower Upper

75 100

110 9.3 19.1 57.3#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 2.747 ug/l

RT: 7.02 min Scan# 867

Delta R.T. -0.07 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

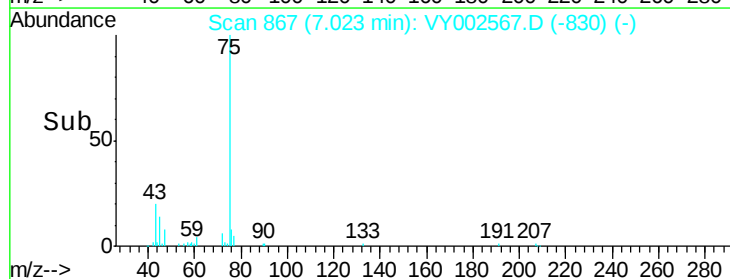
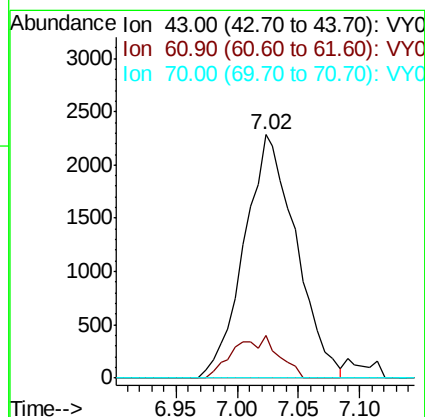
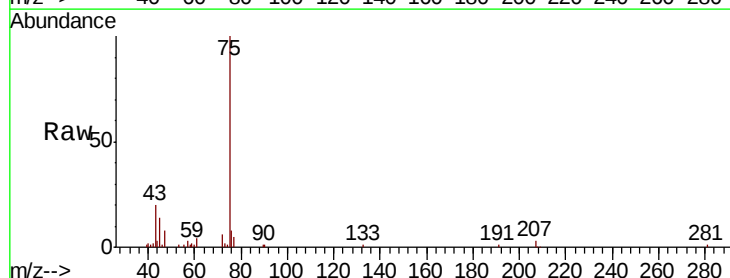
Tgt Ion: 43 Resp: 6717

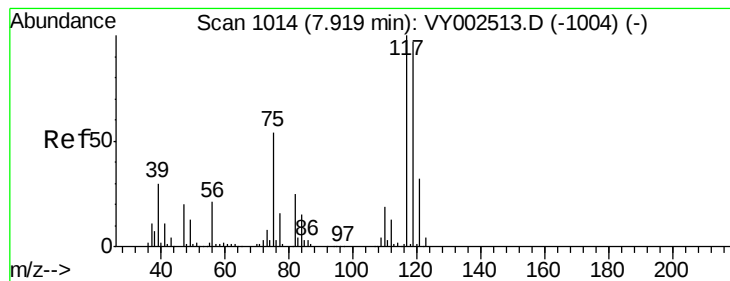
Ion Ratio Lower Upper

43 100

61 14.9 11.6 17.4

70 0.0 9.0 13.6#





#38

Carbon Tetrachloride

Concen: 6.127 ug/l

RT: 7.82 min Scan# 998

Delta R.T. -0.10 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

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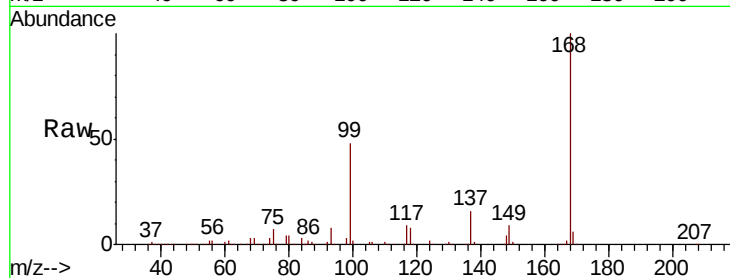
Tot Ion:117 Resp: 31832

Ion Ratio Lower Upper

117 100

119 4.8 77.1 115.7#

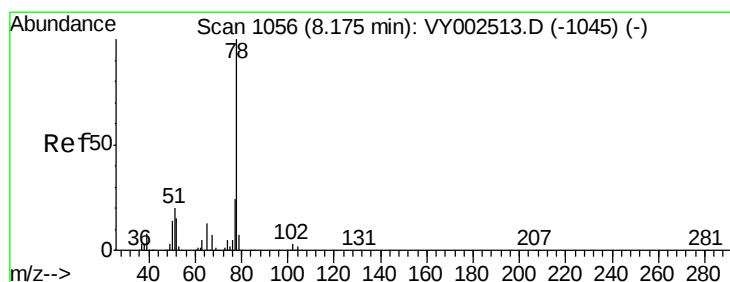
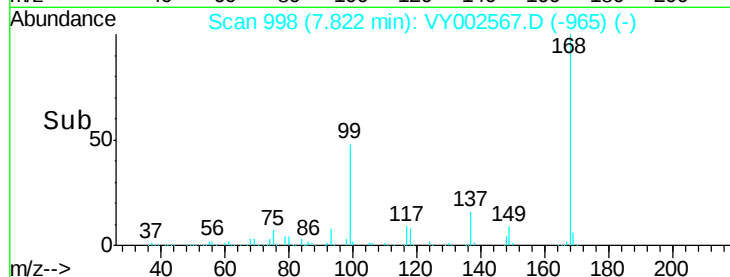
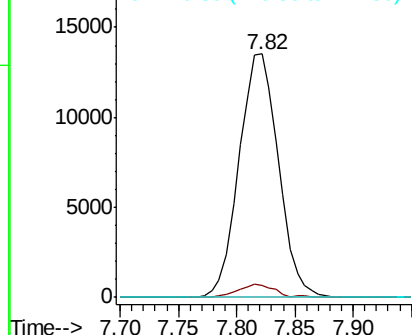
121 0.0 25.2 37.8#



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: 1.009 ug/l

RT: 8.19 min Scan# 1058

Delta R.T. 0.01 min

Lab File: VY002567.D

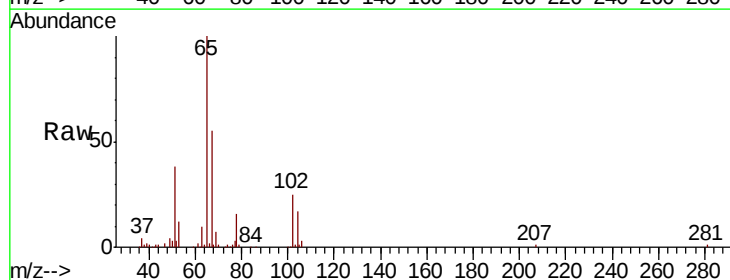
Acq: 05 May 2020 02:20

Tgt Ion: 78 Resp: 13867

Ion Ratio Lower Upper

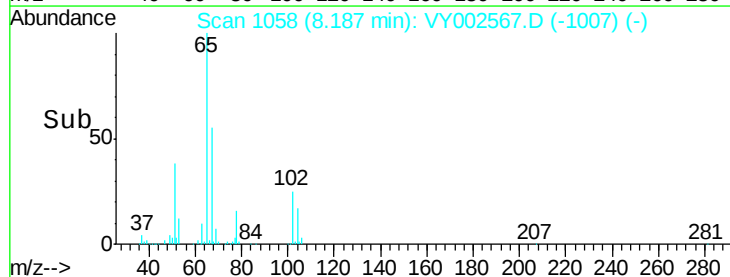
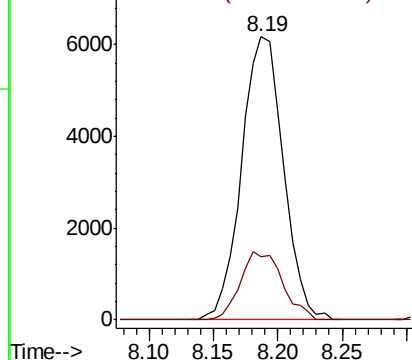
78 100

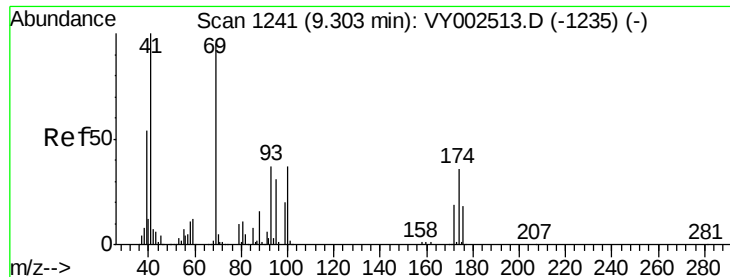
77 22.2 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VY0

Ion 77.00 (76.70 to 77.70): VY0

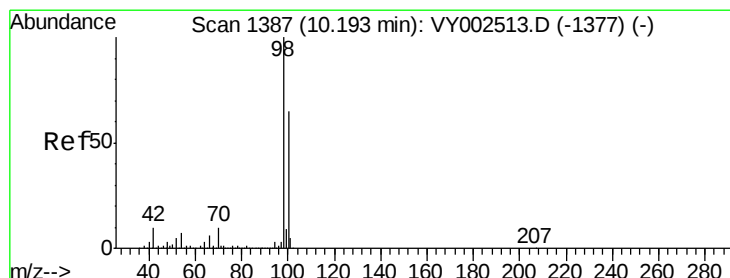
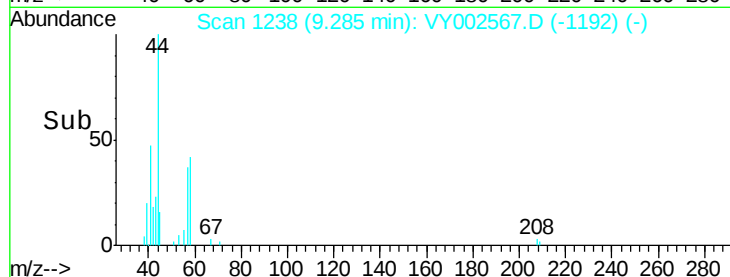
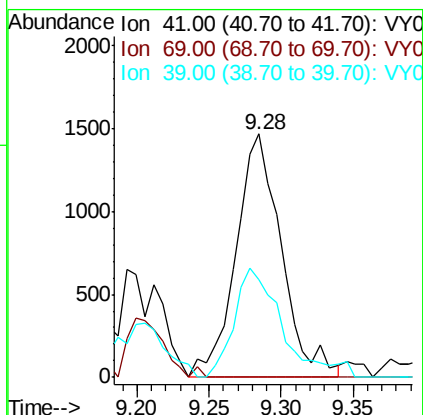
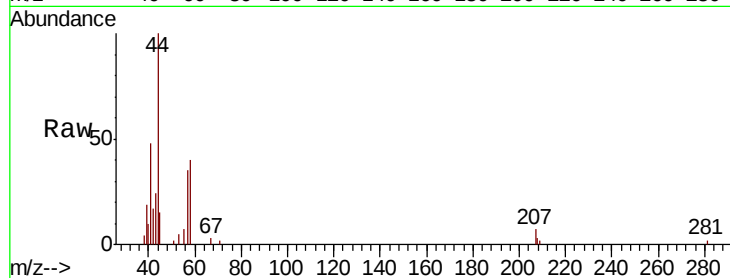




#48
Methvl methacrvlate
Concen: 1.550 ug/l
RT: 9.28 min Scan# 1238
Delta R.T. -0.02 min
Lab File: VY002567.D
Acq: 05 May 2020 02:20

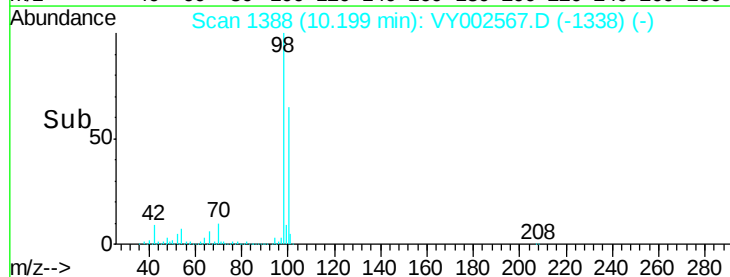
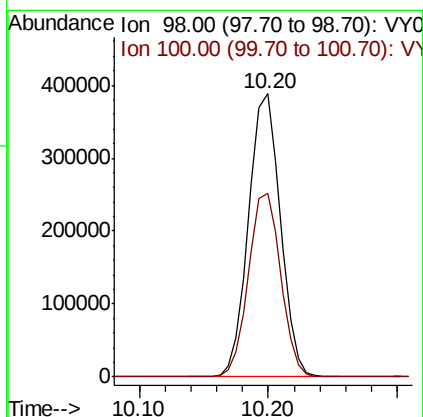
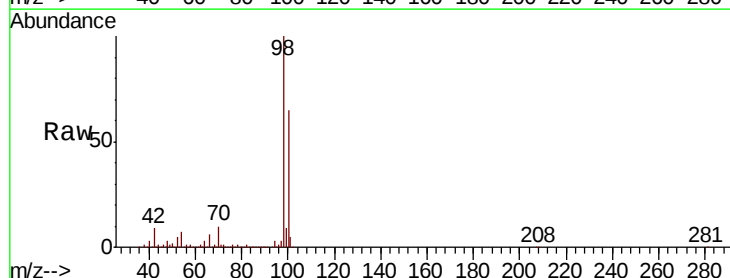
Instrument :
MSVOA_Y
ClientSampleId :
FK-0D015-03-015

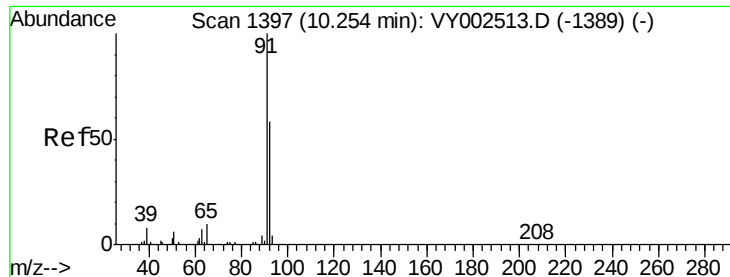
Tot Ion: 41 Resp: 3217
Ion Ratio Lower Upper
41 100
69 0.0 76.2 114.4#
39 47.5 42.7 64.1



#50
Toluene-d8
Concen: 52.284 ug/l
RT: 10.20 min Scan# 1388
Delta R.T. 0.01 min
Lab File: VY002567.D
Acq: 05 May 2020 02:20

Tgt Ion: 98 Resp: 662899
Ion Ratio Lower Upper
98 100
100 65.6 52.2 78.2





#52

Toluene

Concen: 11.684 ug/l

RT: 10.26 min Scan# 1398

Delta R.T. 0.01 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

Instrument :

MSVOA_Y

ClientSampleId :

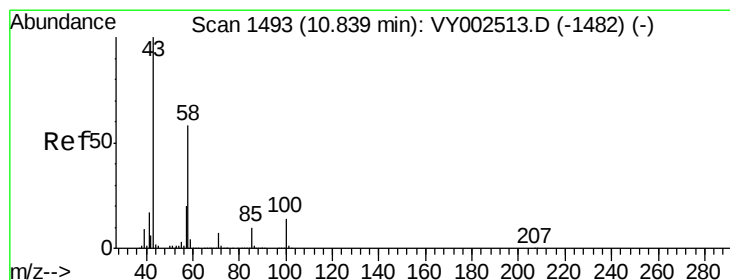
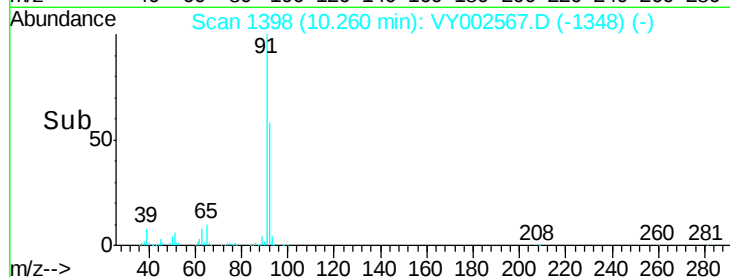
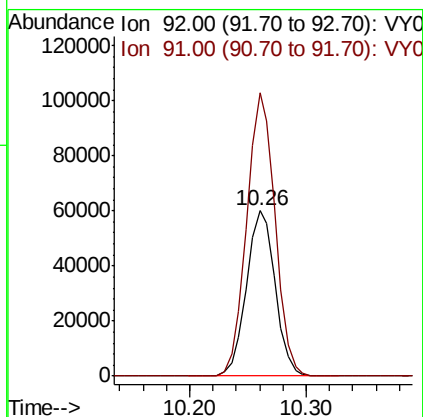
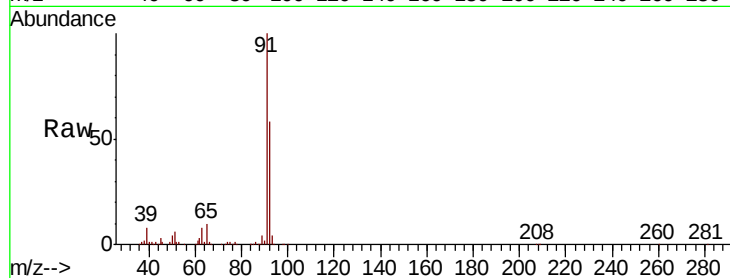
FK-0D015-03-015

Tot Ion: 92 Resp: 103215

Ion Ratio Lower Upper

92 100

91 169.1 139.3 208.9



#59

2-Hexanone

Concen: 4.713 ug/l

RT: 10.82 min Scan# 1490

Delta R.T. -0.02 min

Lab File: VY002567.D

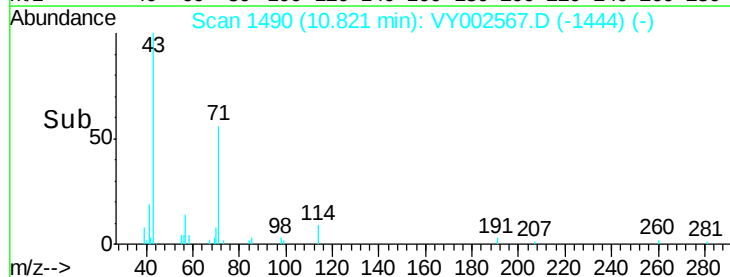
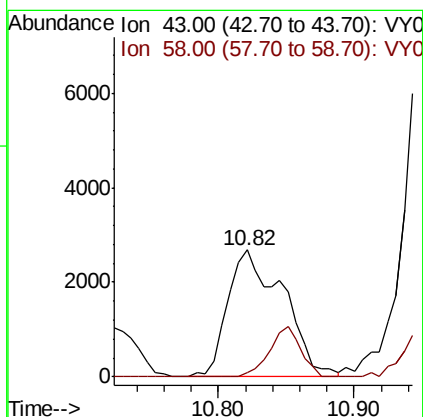
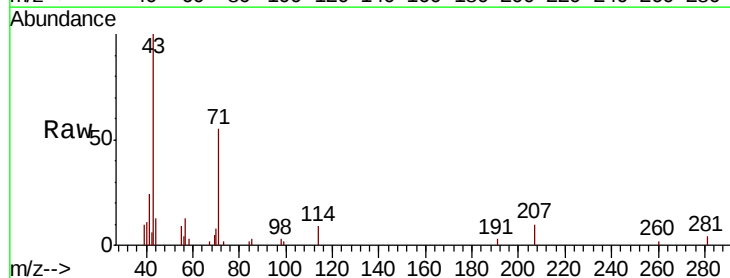
Acq: 05 May 2020 02:20

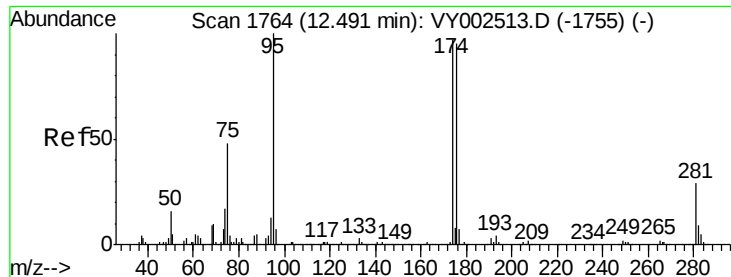
Tgt Ion: 43 Resp: 7665

Ion Ratio Lower Upper

43 100

58 0.0 29.1 87.3#

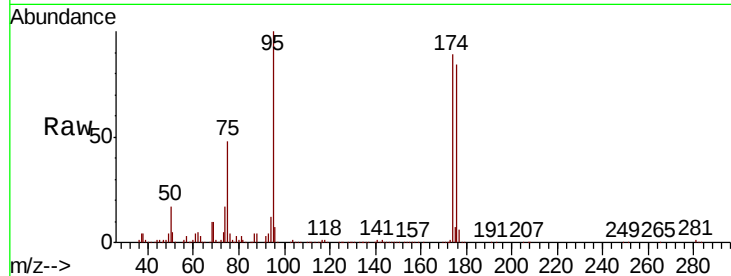




#62
4-Bromofluorobenzene
Concen: 51.173 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. -0.00 min
Lab File: VY002567.D
Acq: 05 May 2020 02:20

Instrument :
MSVOA_Y
ClientSampleId :
FK-0D015-03-015

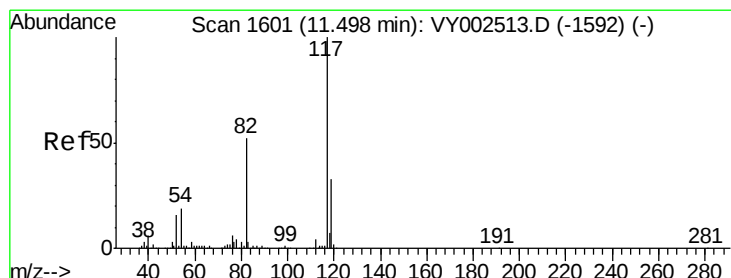
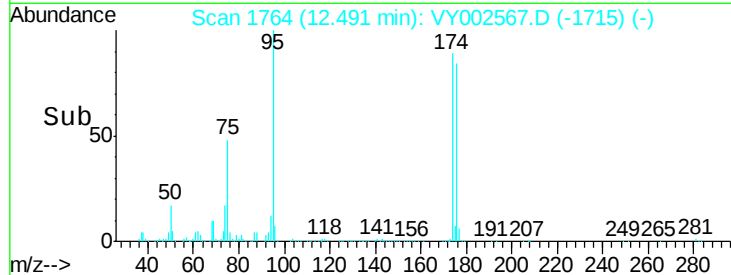
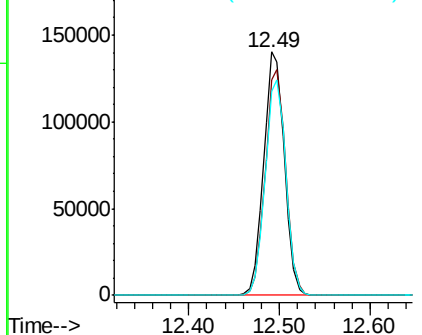
Tot Ion	Ratio	Lower	Upper
95	100		
174	92.4	0.0	188.8
176	89.3	0.0	183.2



Abundance Ion 94.90 (94.60 to 95.60): VY002513.D (-1755) (-)

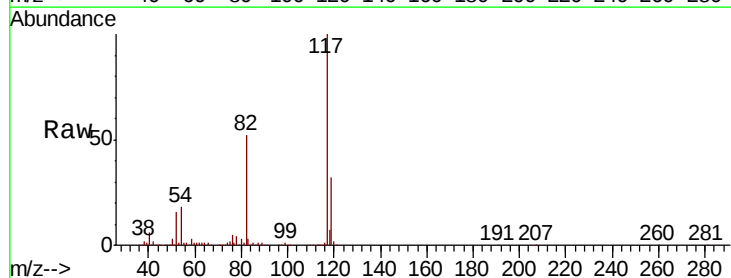
Ion 173.80 (173.50 to 174.50): VY002513.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY002513.D (-1755) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.01 min
Lab File: VY002567.D
Acq: 05 May 2020 02:20

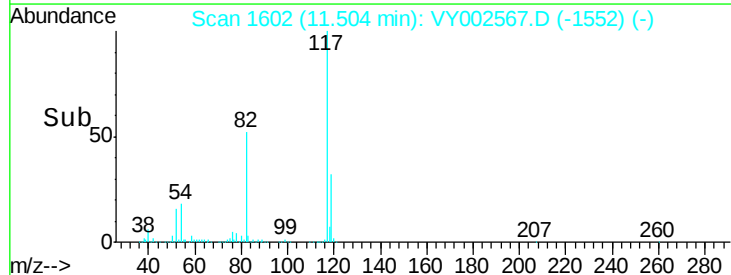
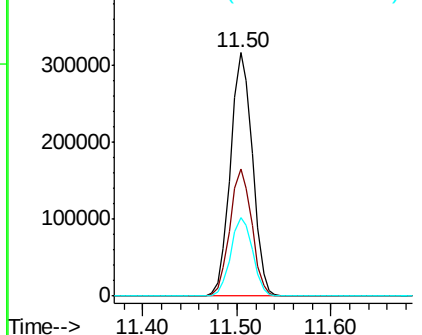
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.0	41.3	61.9
119	32.2	26.0	39.0

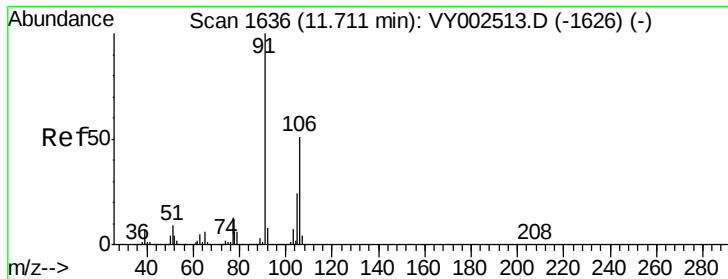


Abundance Ion 116.90 (116.60 to 117.60): VY002513.D (-1592) (-)

Ion 82.00 (81.70 to 82.70): VY002513.D (-1592) (-)

Ion 118.90 (118.60 to 119.60): VY002513.D (-1592) (-)

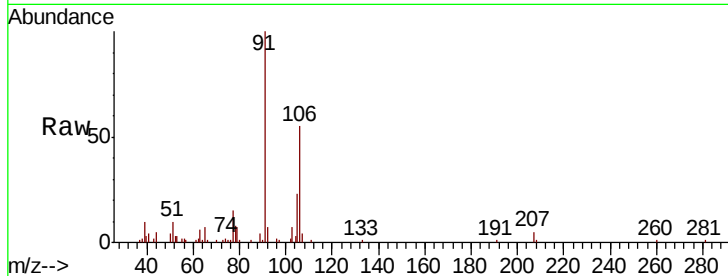




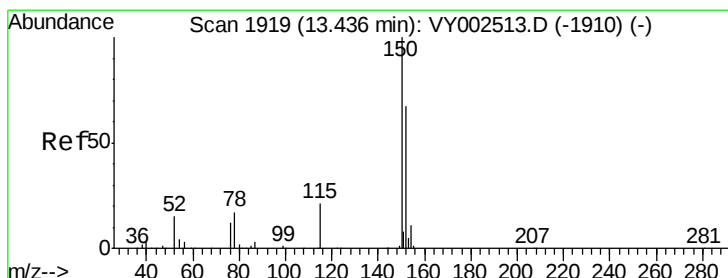
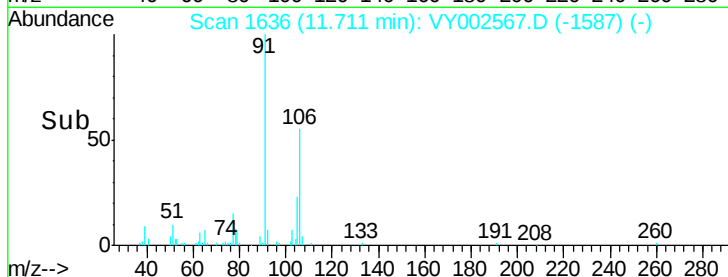
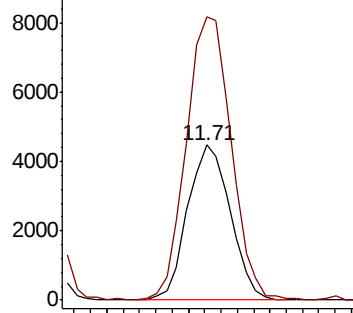
#68
m/p-Xvlenes
Concen: 1.236 ug/l
RT: 11.71 min Scan# 1636
Delta R.T. -0.00 min
Lab File: VY002567.D
Acq: 05 May 2020 02:20

Instrument :
MSVOA_Y
ClientSampleId :
FK-0D015-03-015

Tot Ion:106 Resp: 8168
Ion Ratio Lower Upper
106 100
91 191.6 155.2 232.8

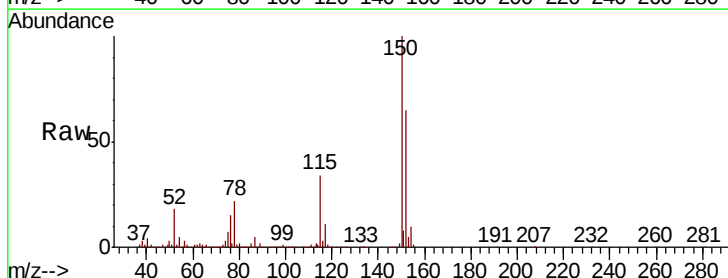


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

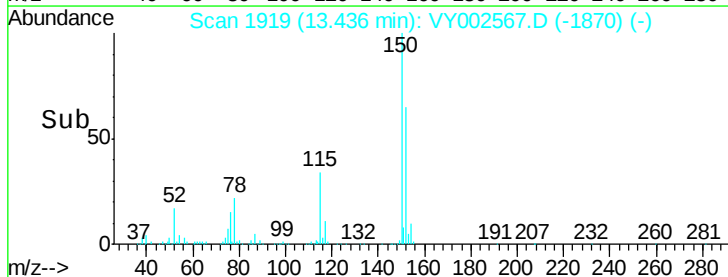
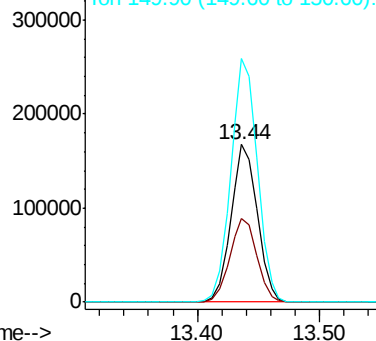


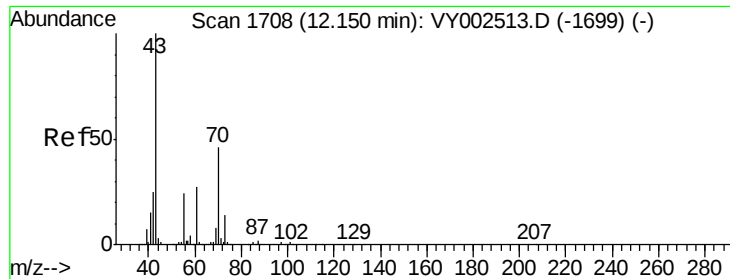
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. -0.00 min
Lab File: VY002567.D
Acq: 05 May 2020 02:20

Tgt Ion:152 Resp: 252011
Ion Ratio Lower Upper
152 100
115 54.7 27.5 82.4
150 155.7 0.0 346.4



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





#74

N-amvl acetate

Concen: 3.021 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.03 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

Instrument :

MSVOA_Y

ClientSampleId :

FK-0D015-03-015

Tot Ion: 43 Resp: 11870

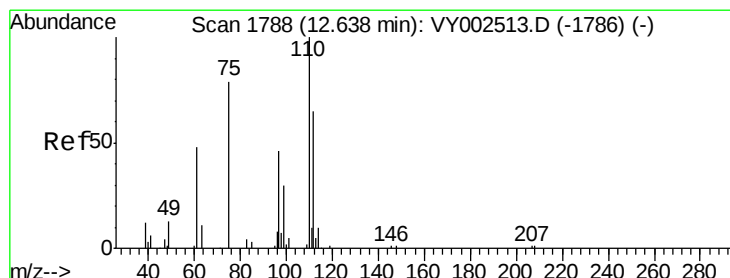
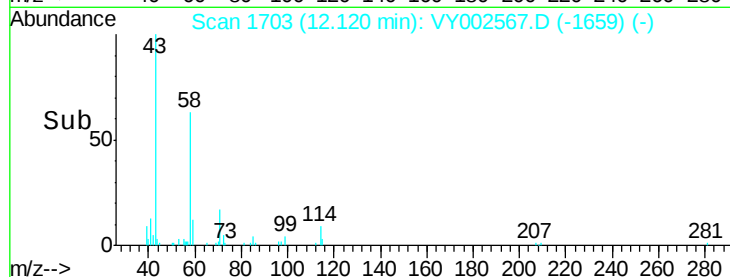
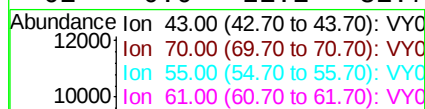
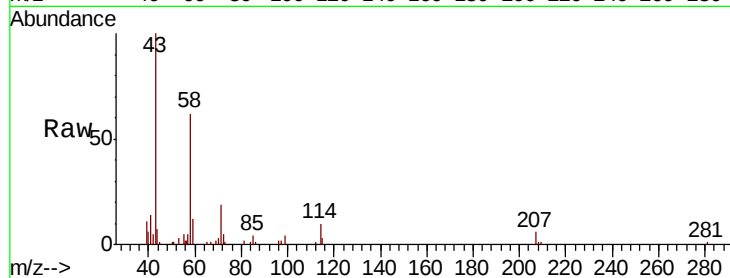
Ion Ratio Lower Upper

43 100

70 1.6 36.7 55.1#

55 9.3 19.2 28.8#

61 0.0 21.1 31.7#



#76

1,2,3-Trichloropropane

Concen: 47.755 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002567.D

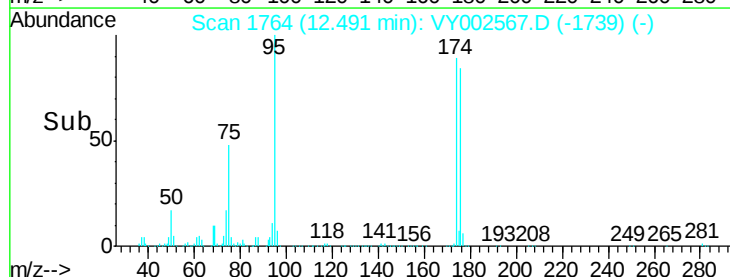
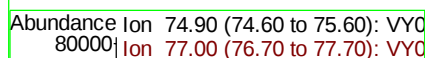
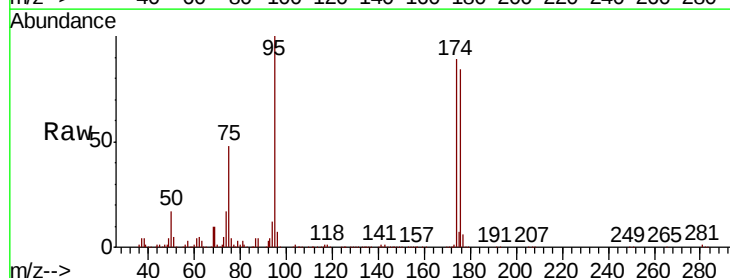
Acq: 05 May 2020 02:20

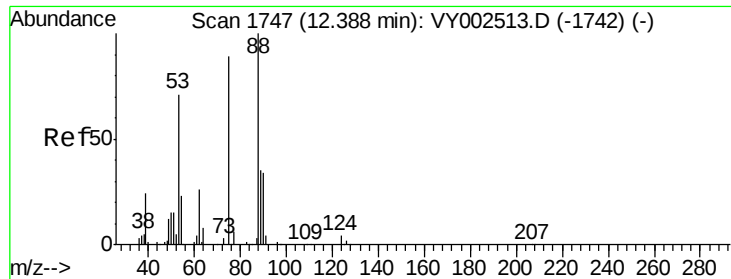
Tgt Ion: 75 Resp: 106949

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 95.758 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

Instrument :

MSVOA_Y

ClientSampleId :

FK-0D015-03-015

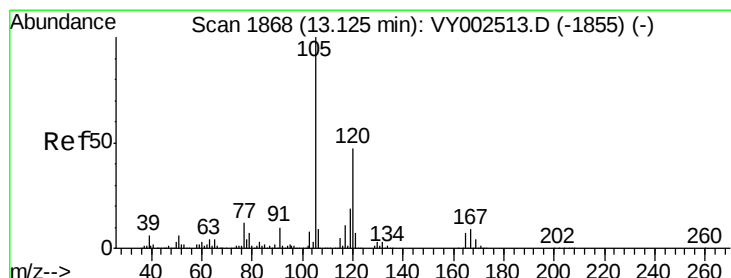
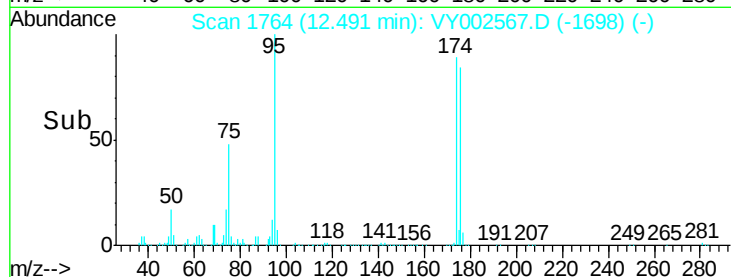
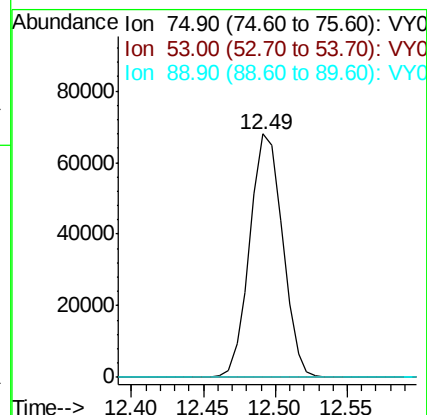
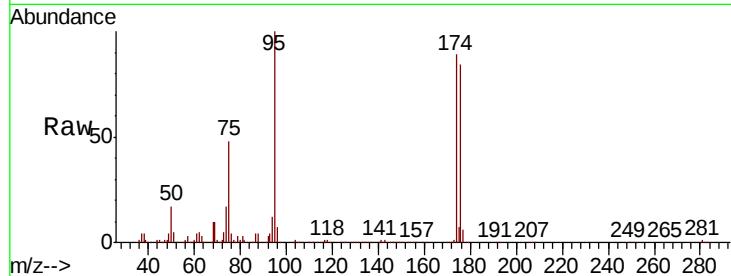
Tot Ion: 75 Resp: 106949

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.0#

89 0.0 37.4 56.0#



#84

1,2,4-Trimethylbenzene

Concen: 1.615 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VY002567.D

Acq: 05 May 2020 02:20

Tgt Ion: 105 Resp: 21790

Ion Ratio Lower Upper

105 100

120 36.0 23.4 70.3

