

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110420\
 Data File : VX019250.D
 Acq On : 03 Nov 2020 21:54
 Operator : JC/MD
 Sample : PB132784TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132784TB

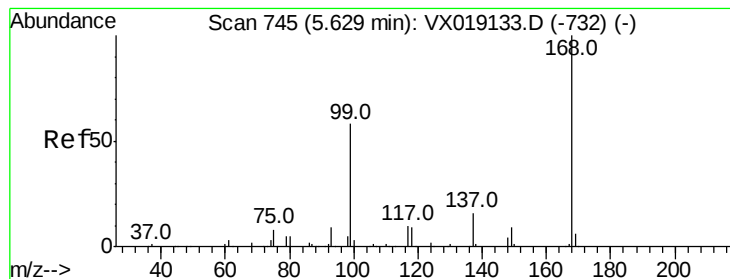
Quant Time: Nov 04 02:25:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	341026	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	599600	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	605304	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	309461	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	230504	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	
35) Dibromofluoromethane	5.46	113	184077	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
50) Toluene-d8	8.70	98	773904	54.51	ug/l	0.00
Spiked Amount			Recovery	=	109.02%	
62) 4-Bromofluorobenzene	11.12	95	302978	56.35	ug/l	0.00
Spiked Amount			Recovery	=	112.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.99	59	1421	1.636	ug/l #	72
13) Acrolein	2.27	56	72	5.829	ug/l #	15
16) Acetone	2.42	43	12234	8.063	ug/l	96
17) Carbon Disulfide	2.55	76	431	0.805	ug/l #	75
18) Methyl Acetate	2.75	43	2958	0.802	ug/l	99
20) Methylene Chloride	2.84	84	6248	1.640	ug/l	94
25) 2-Butanone	4.65	43	2481	1.038	ug/l #	85
29) Tetrahydrofuran	5.10	42	1613	1.070	ug/l #	83
31) Cyclohexane	5.62	56	7722	1.389	ug/l #	19
36) 1,1-Dichloropropene	5.63	75	27762	5.014	ug/l #	49
38) Carbon Tetrachloride	5.63	117	35418	6.276	ug/l #	18
41) Methacrylonitrile	5.09	41	1029	0.372	ug/l #	41
43) Isopropyl Acetate	6.41	43	74803	8.690	ug/l	99
48) Methyl methacrylate	7.85	41	122474	29.561	ug/l #	37
49) 1,4-Dioxane	7.85	88	276	2.996	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	71927	14.538	ug/l #	43
54) cis-1,3-Dichloropropene	8.59	75	35424	5.263	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	6314	0.937	ug/l #	42
59) 2-Hexanone	9.41	43	69363	18.418	ug/l #	20
74) N-amyl acetate	10.80	43	2981	0.372	ug/l #	43
76) 1,2,3-Trichloropropane	11.12	75	155887	24.397	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	155887	64.236	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

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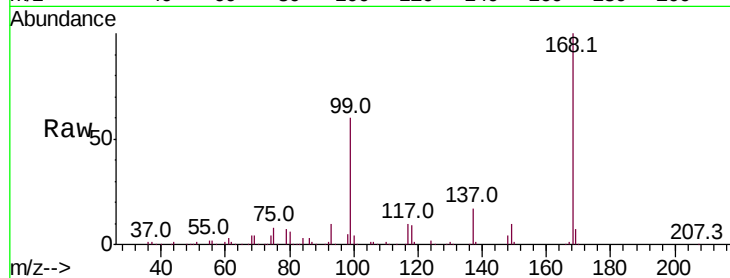
PB132784TB

Tot Ion:168 Resp: 341026

Ion Ratio Lower Upper

168 100

99 60.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

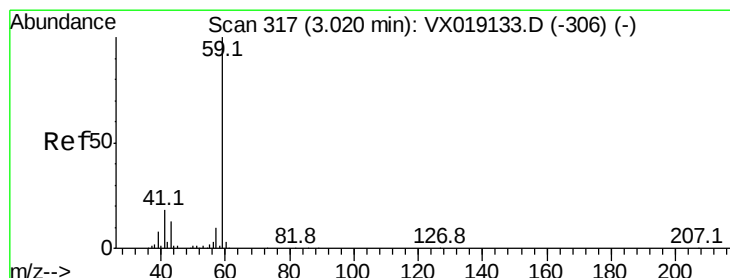
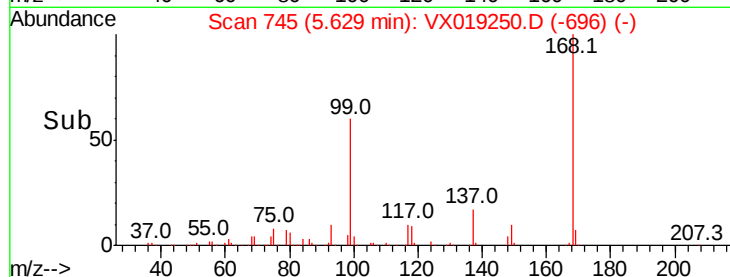
5.63

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.636 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.03 min

Lab File: VX019250.D

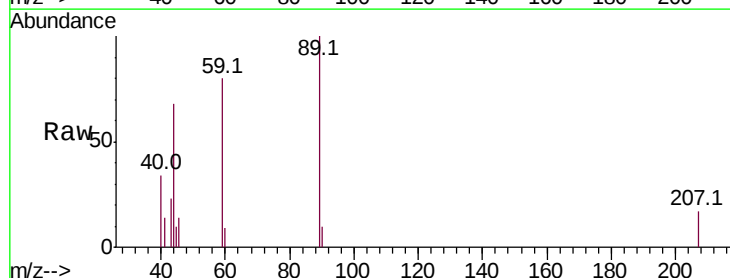
Acq: 03 Nov 2020 21:54

Tgt Ion: 59 Resp: 1421

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2.99

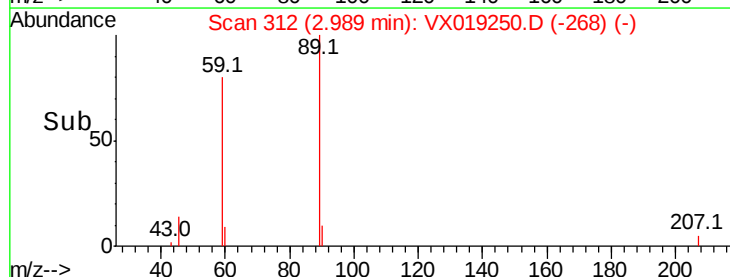
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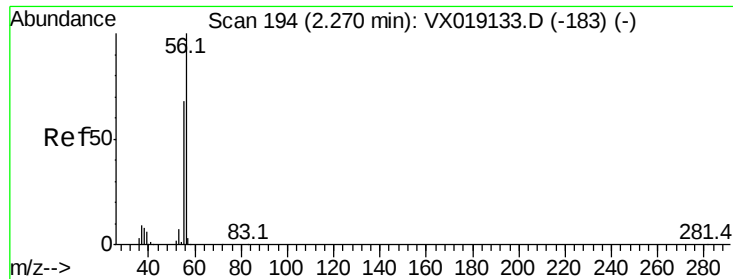
400

200

0

Time-->





#13

Acrolein

Concen: 5.829 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampleId :

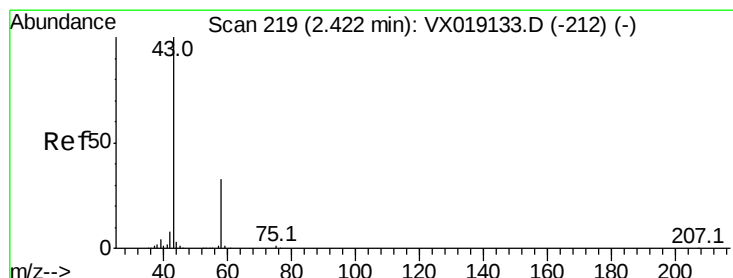
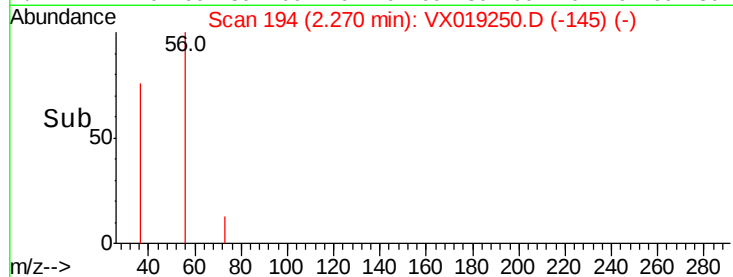
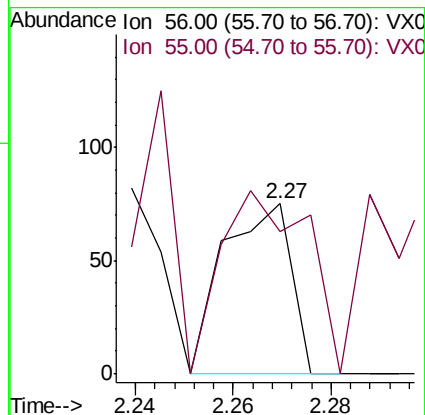
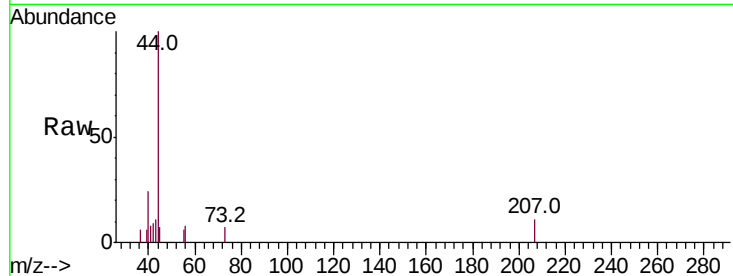
PB132784TB

Tot Ion: 56 Resp: 72

Ion Ratio Lower Upper

56 100

55 137.5 54.7 82.1#



#16

Acetone

Concen: 8.063 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019250.D

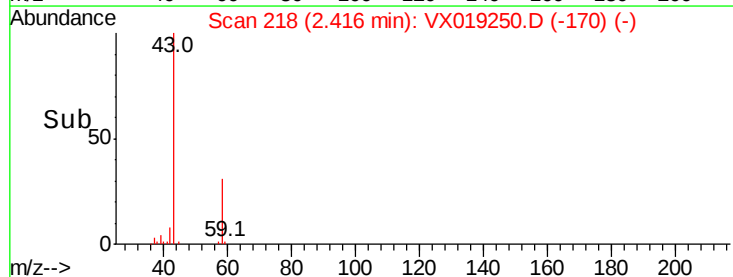
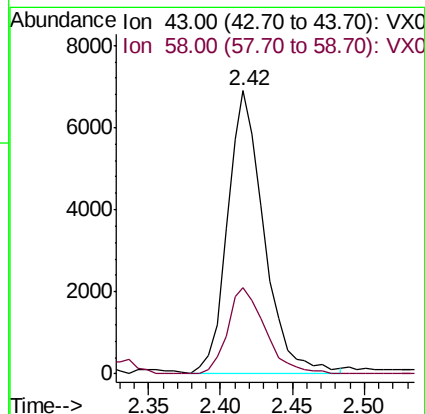
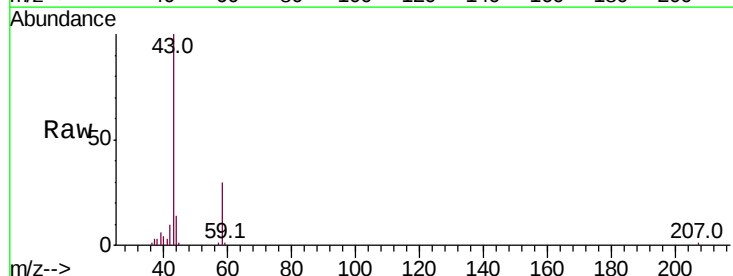
Acq: 03 Nov 2020 21:54

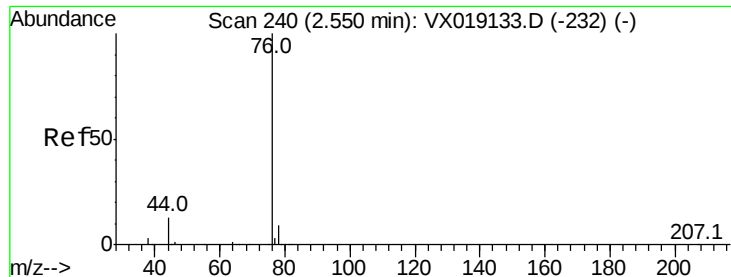
Tgt Ion: 43 Resp: 12234

Ion Ratio Lower Upper

43 100

58 30.4 26.3 39.5

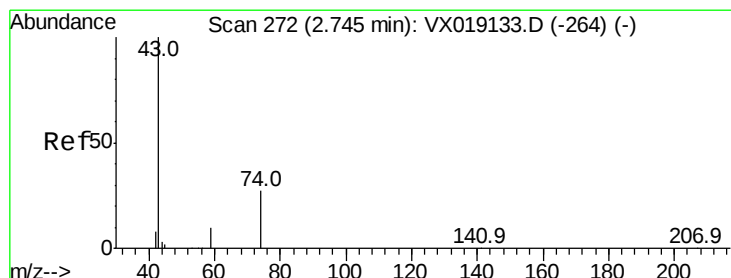
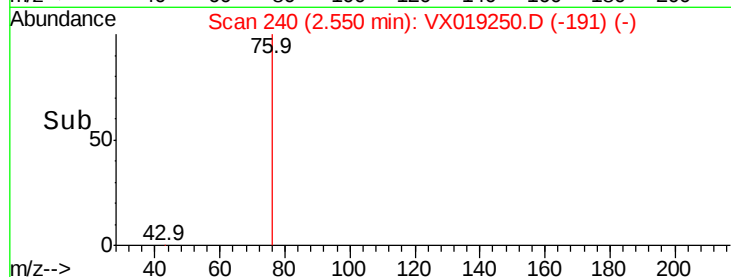
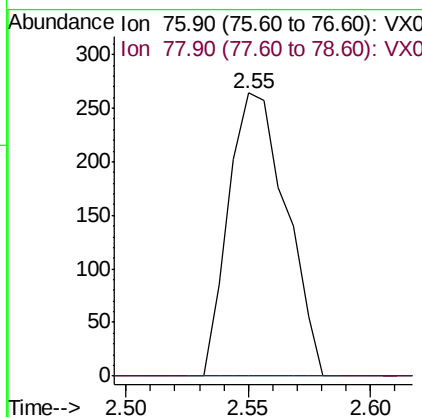
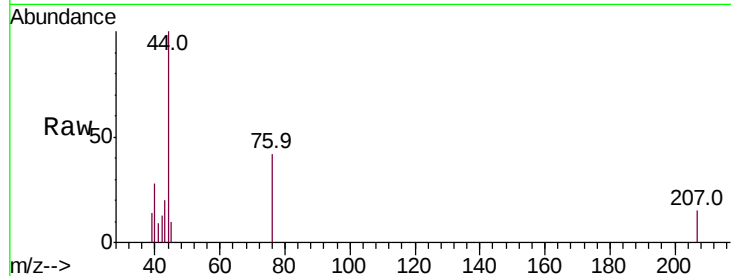




#17
Carbon Disulfide
Concen: 0.805 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX019250.D
Acq: 03 Nov 2020 21:54

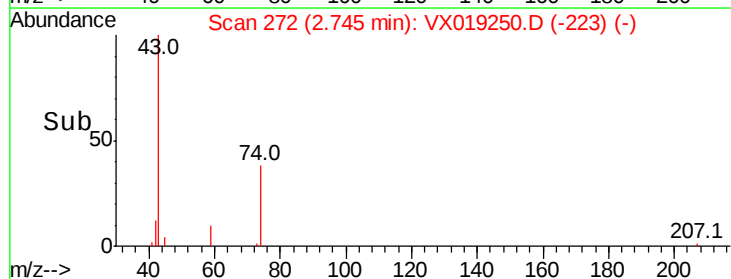
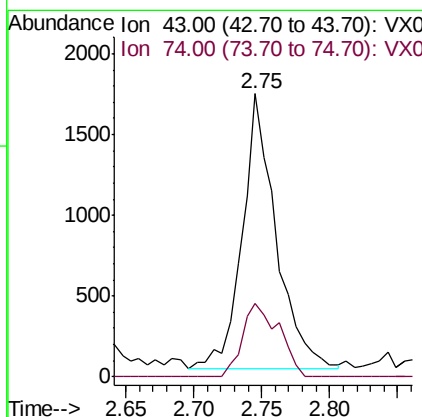
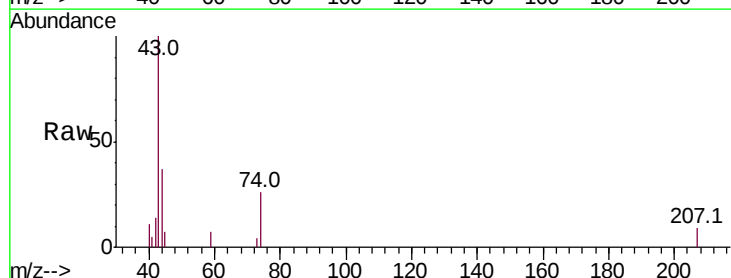
Instrument :
MSVOA_X
ClientSampleId :
PB132784TB

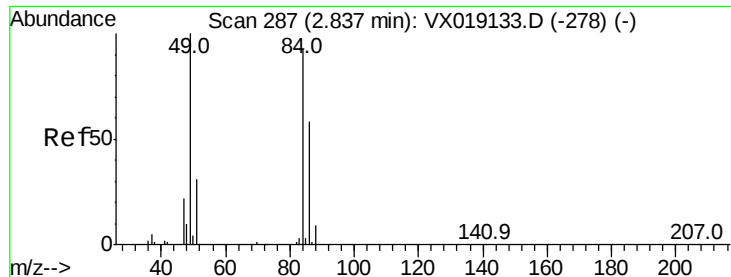
Tot Ion: 76 Resp: 431
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: 0.802 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX019250.D
Acq: 03 Nov 2020 21:54

Tgt Ion: 43 Resp: 2958
Ion Ratio Lower Upper
43 100
74 28.8 22.6 33.8





#20

Methvlene Chloride

Concen: 1.640 ug/l

RT: 2.84 min Scan# 287

Delta R.T. -0.00 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampleId :

PB132784TB

Tot Ion: 84 Resp: 6248

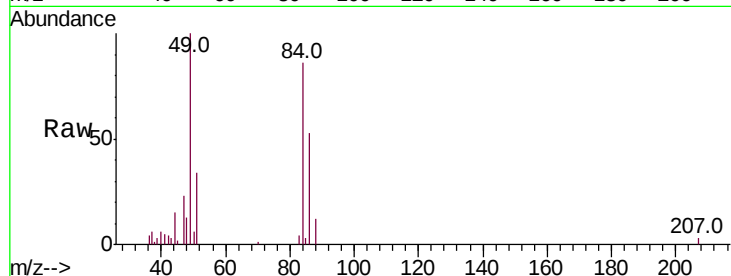
Ion Ratio Lower Upper

84 100

49 116.9 86.8 130.2

51 39.2 27.3 40.9

86 62.5 50.6 76.0



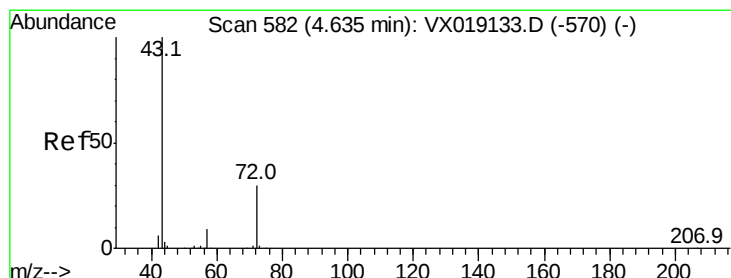
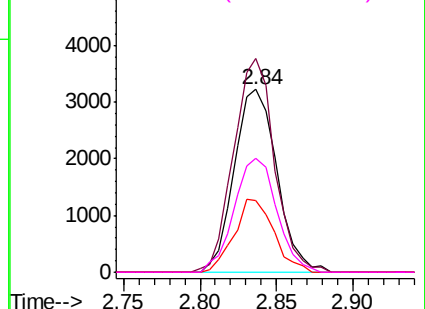
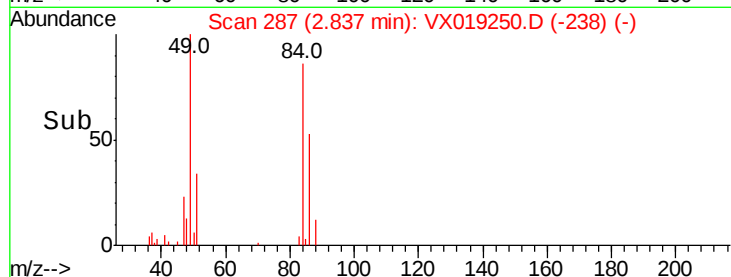
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.038 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019250.D

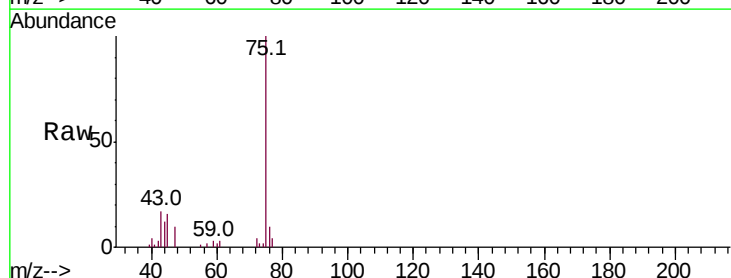
Acq: 03 Nov 2020 21:54

Tgt Ion: 43 Resp: 2481

Ion Ratio Lower Upper

43 100

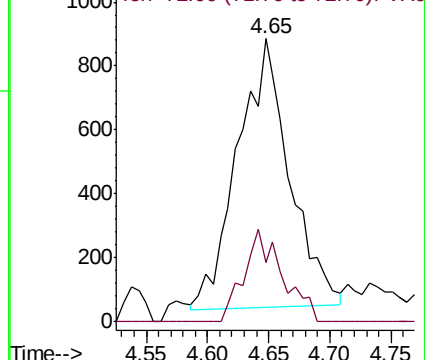
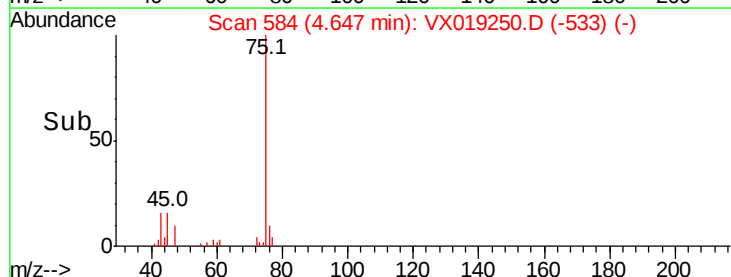
72 22.3 24.6 36.8#

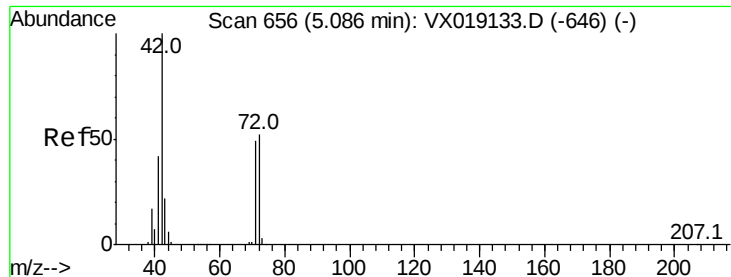


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.070 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampleId :

PB132784TB

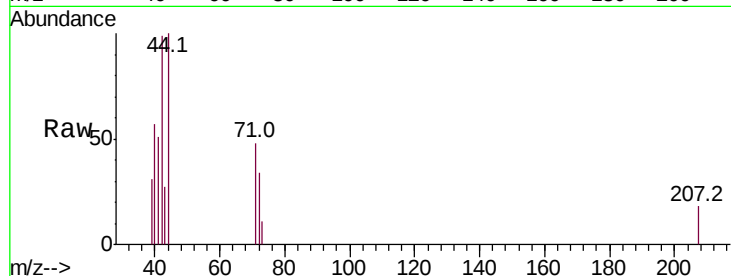
Tot Ion: 42 Resp: 1613

Ion Ratio Lower Upper

42 100

72 38.4 42.6 63.8#

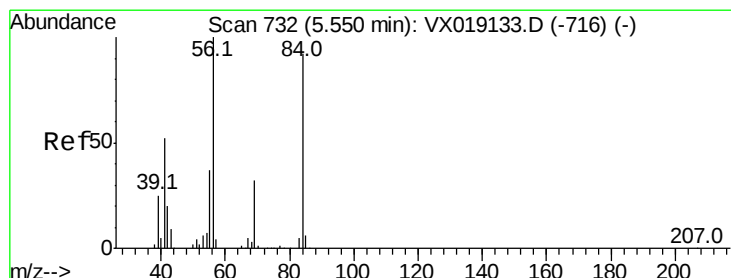
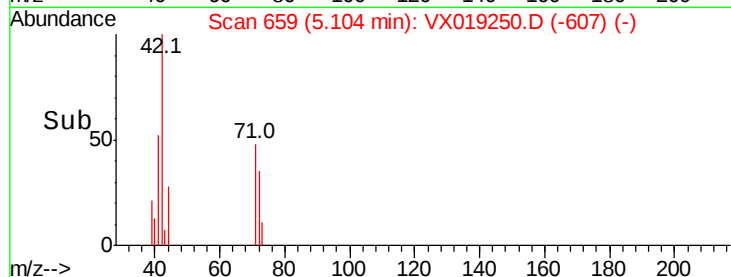
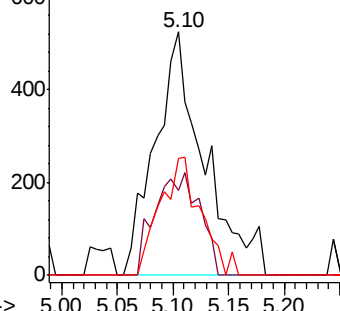
71 40.2 39.7 59.5



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.389 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

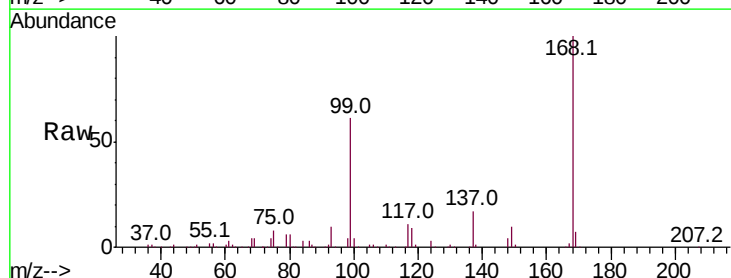
Tgt Ion: 56 Resp: 7722

Ion Ratio Lower Upper

56 100

69 156.6 25.9 38.9#

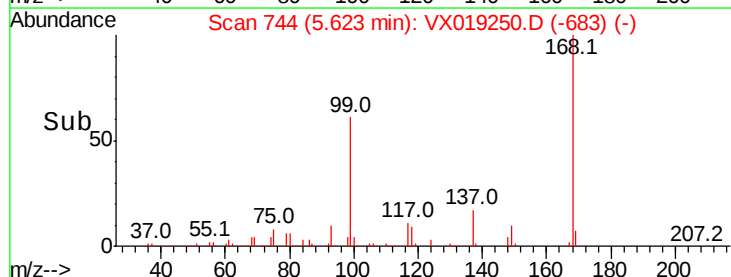
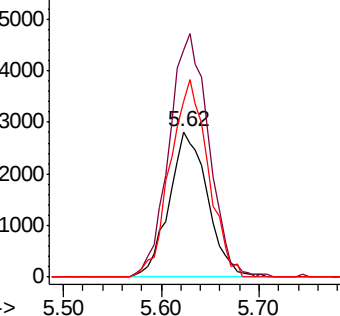
84 121.2 73.4 110.2#

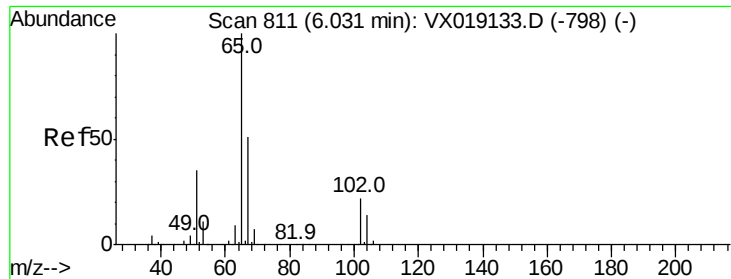


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.412 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

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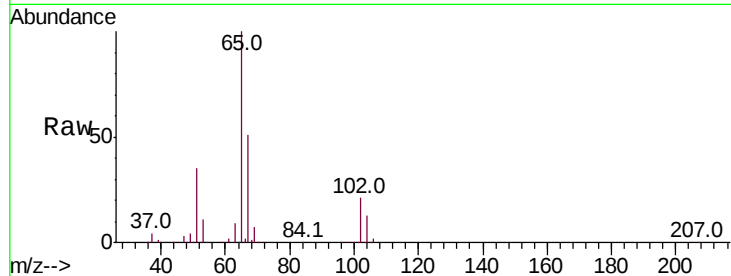
PB132784TB

Tot Ion: 65 Resp: 230504

Ion Ratio Lower Upper

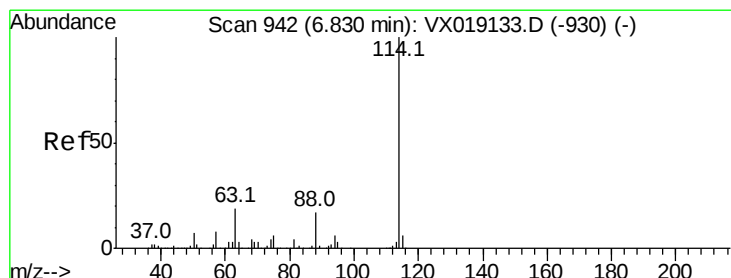
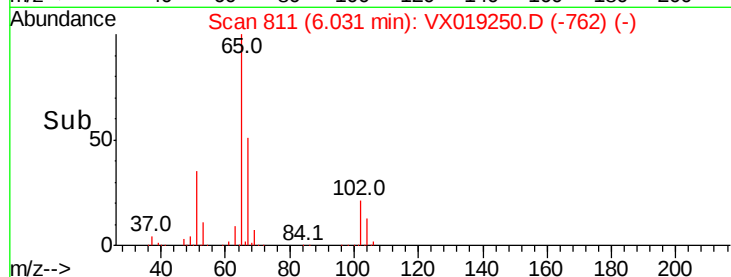
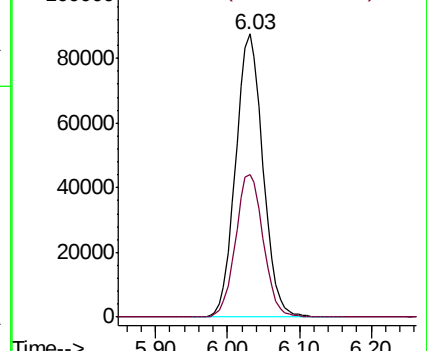
65 100

67 51.0 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

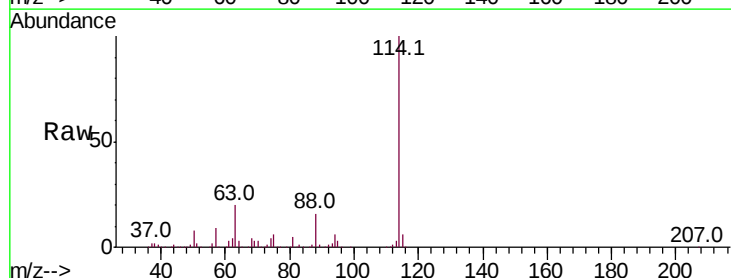
Tgt Ion:114 Resp: 599600

Ion Ratio Lower Upper

114 100

63 20.3 0.0 38.8

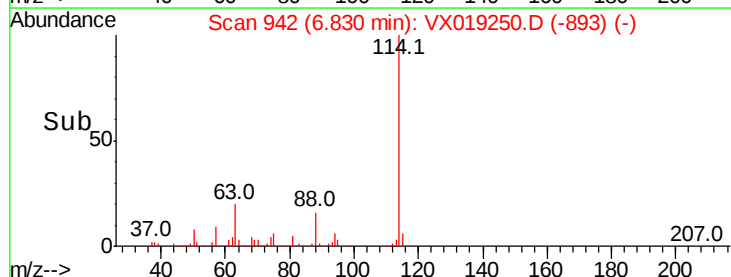
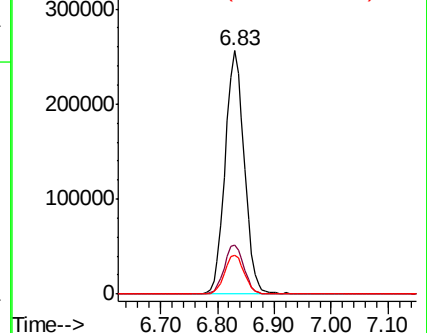
88 16.0 0.0 34.2

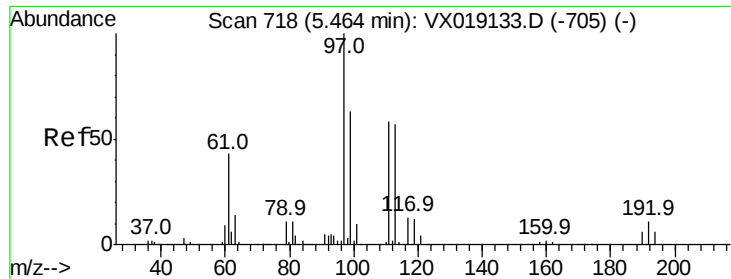


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

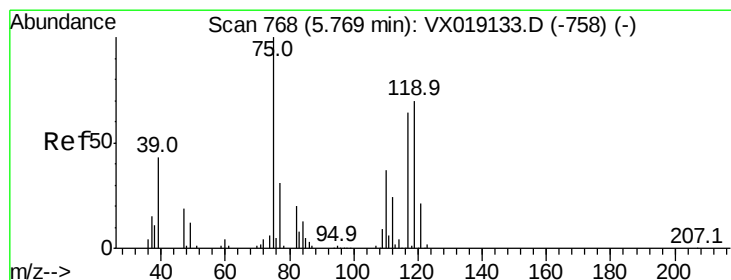
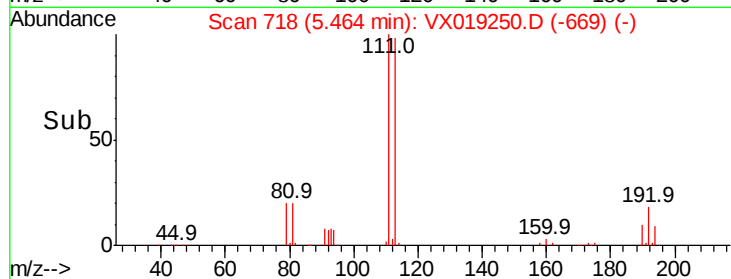
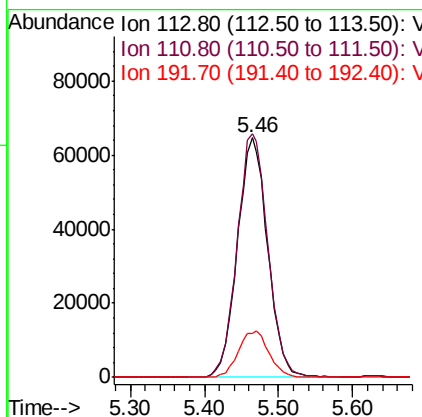
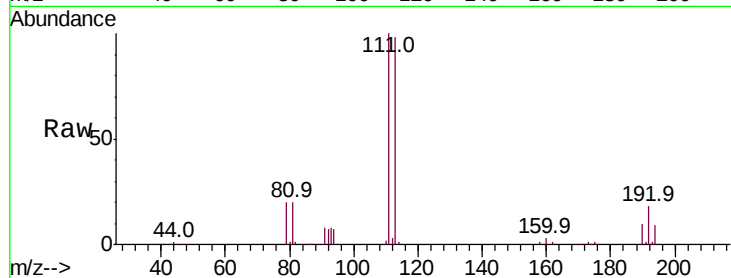




#35
 Dibromofluoromethane
 Concen: 48.875 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX019250.D
 Acq: 03 Nov 2020 21:54

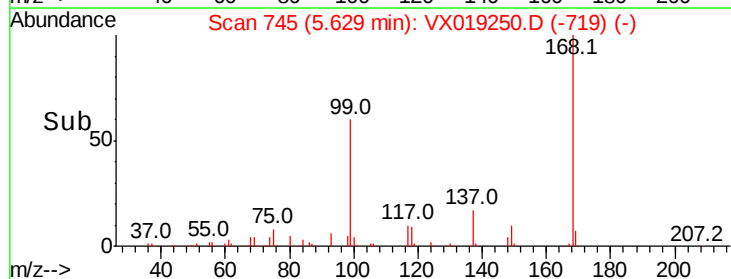
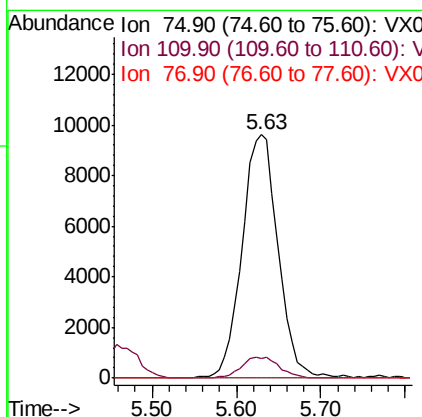
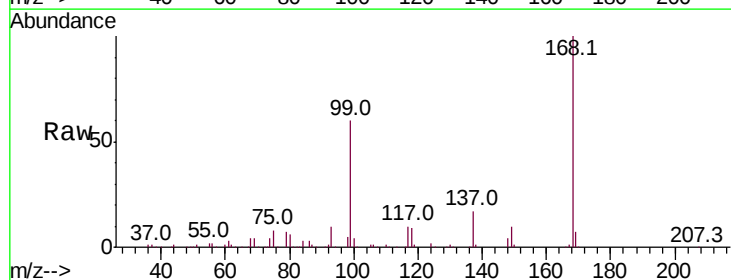
Instrument :
 MSVOA_X
 ClientSampleId :
 PB132784TB

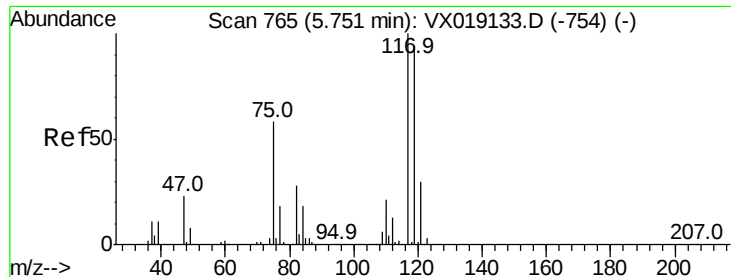
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.3	123.5
192	19.7	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.014 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019250.D
 Acq: 03 Nov 2020 21:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.276 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampleId :

PB132784TB

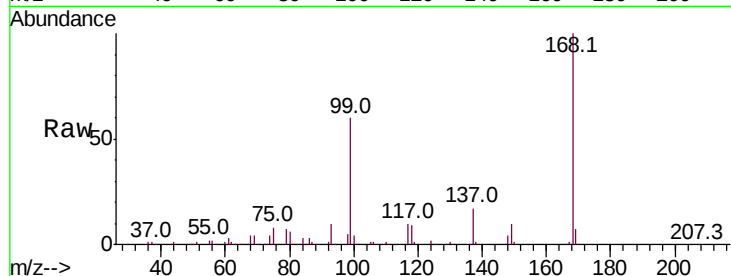
Tot Ion:117 Resp: 35418

Ion Ratio Lower Upper

117 100

119 6.0 75.0 112.6#

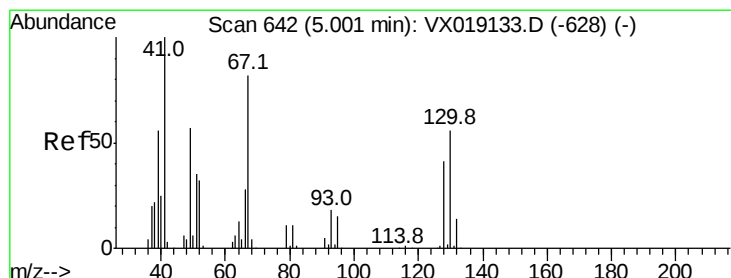
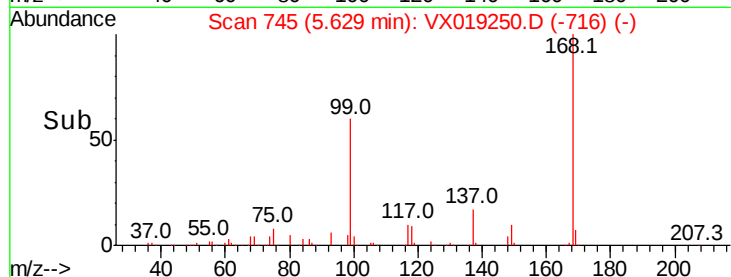
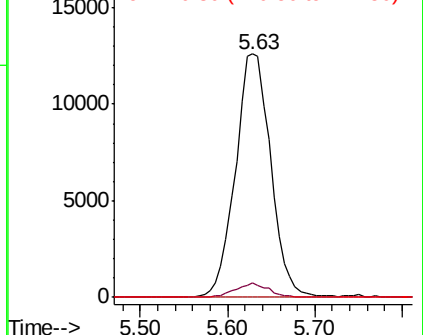
121 0.0 23.9 35.9#



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



#41

Methacrylonitrile

Concen: 0.372 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.09 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Tgt Ion: 41 Resp: 1029

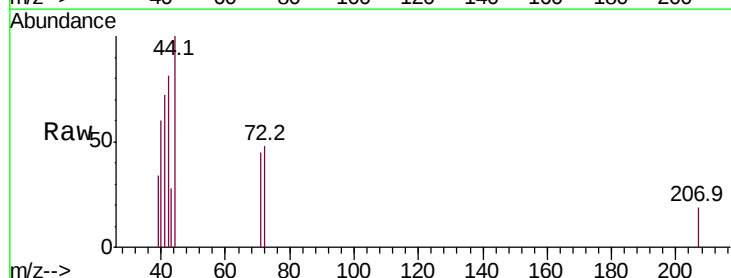
Ion Ratio Lower Upper

41 100

39 63.8 44.4 66.6

67 0.0 66.4 99.6#

52 0.0 26.2 39.4#

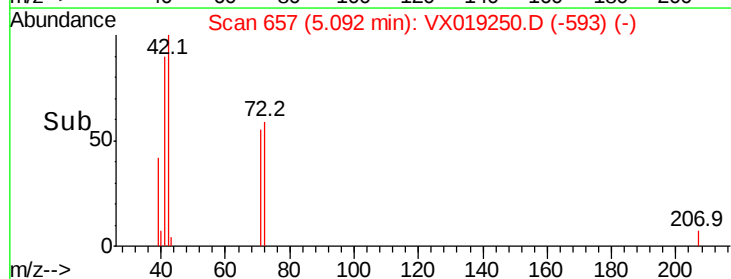
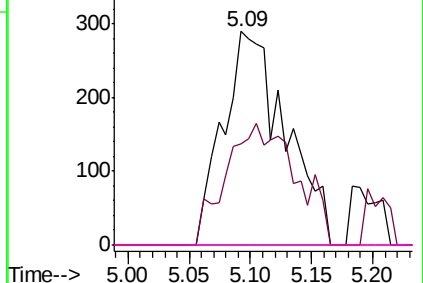


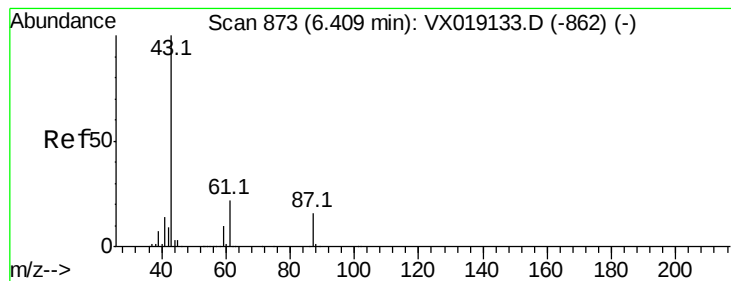
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 8.690 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampleId :

PB132784TB

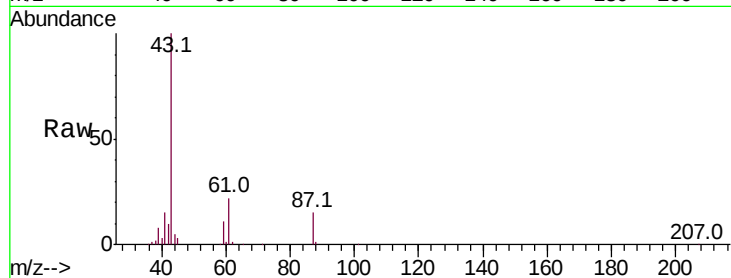
Tot Ion: 43 Resp: 74803

Ion Ratio Lower Upper

43 100

61 21.7 17.8 26.6

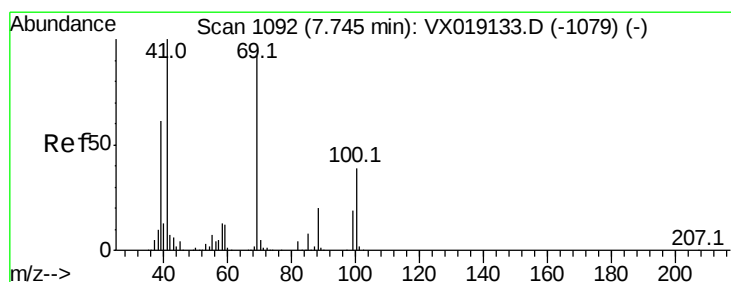
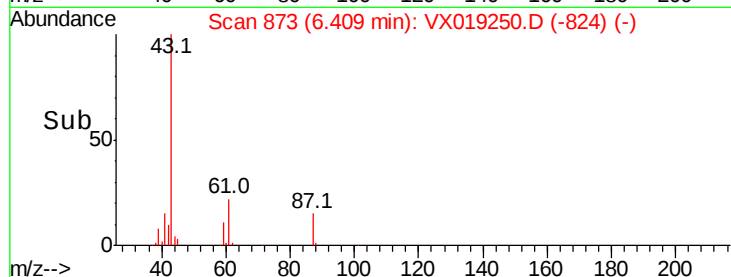
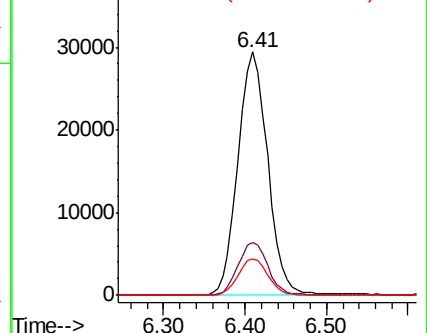
87 15.1 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 29.561 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.10 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

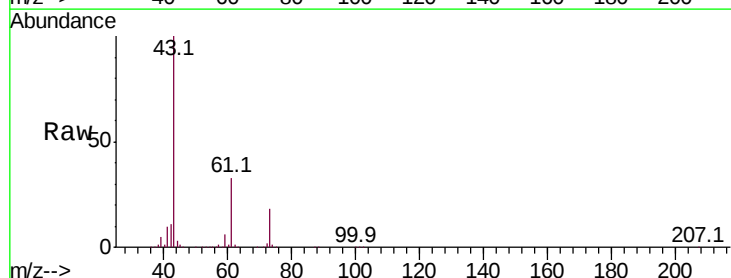
Tgt Ion: 41 Resp: 122474

Ion Ratio Lower Upper

41 100

69 0.2 75.5 113.3#

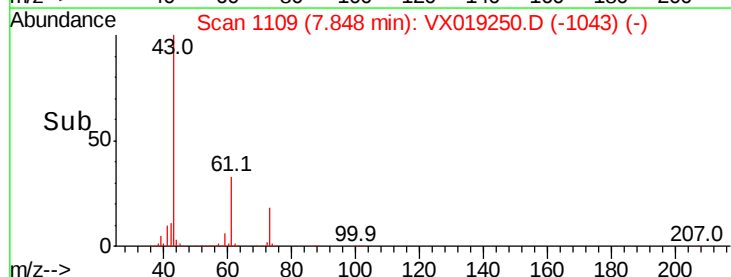
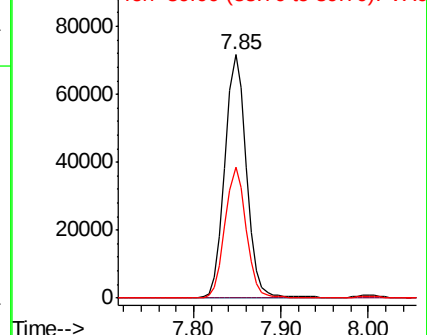
39 52.8 48.9 73.3

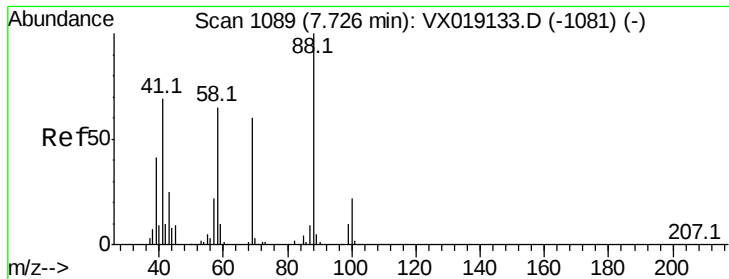


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.996 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.13 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampleId :

PB132784TB

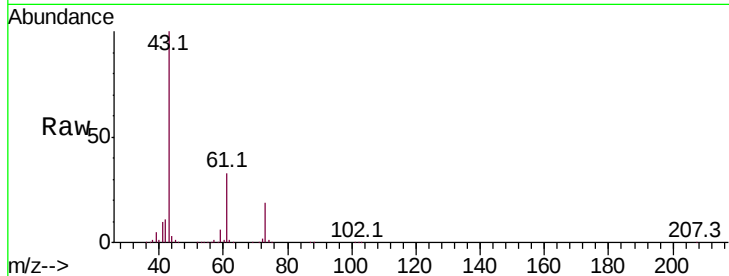
Tot Ion: 88 Resp: 276

Ion Ratio Lower Upper

88 100

43 455542.8 23.0 34.6#

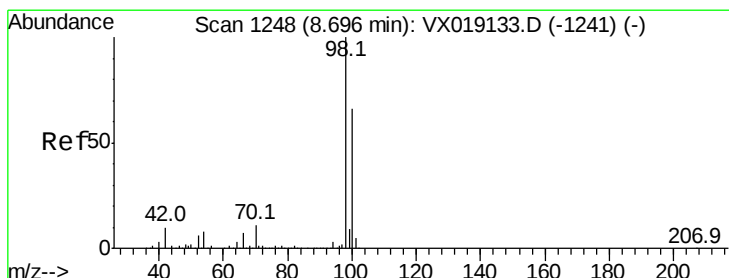
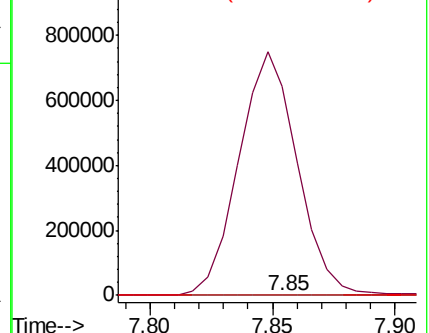
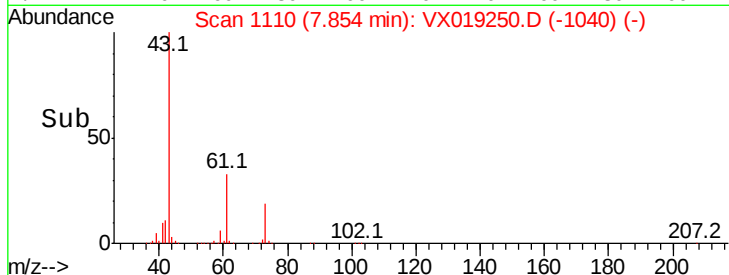
58 2095.7 52.2 78.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 54.509 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019250.D

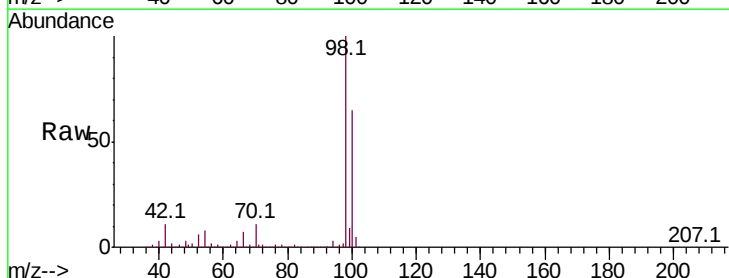
Acq: 03 Nov 2020 21:54

Tgt Ion: 98 Resp: 773904

Ion Ratio Lower Upper

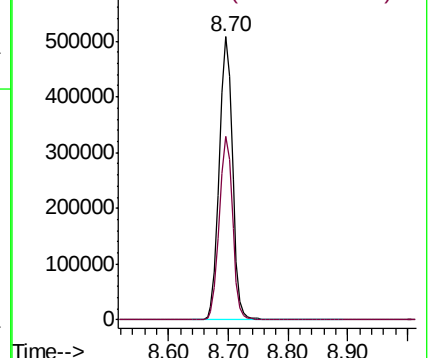
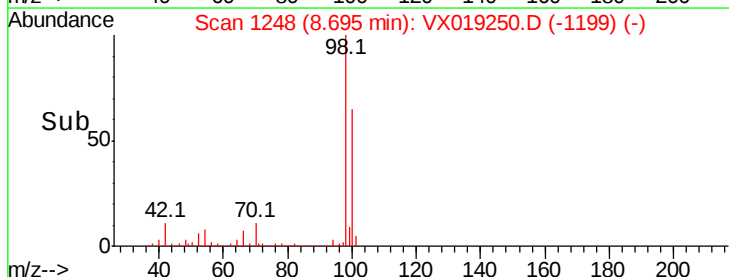
98 100

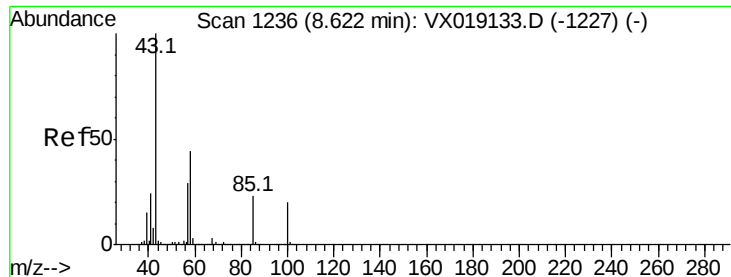
100 65.3 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 14.538 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampleId :

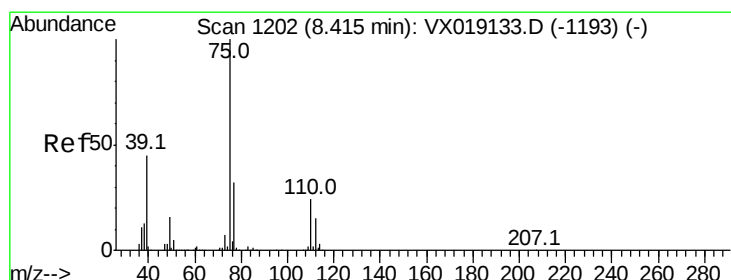
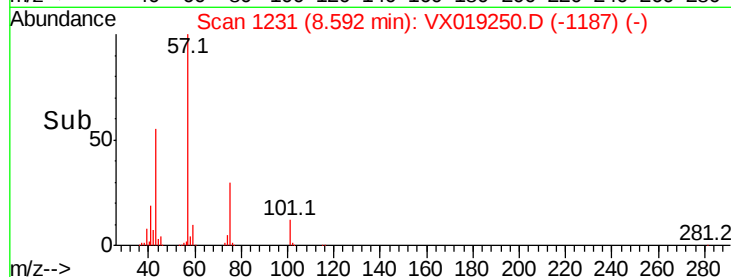
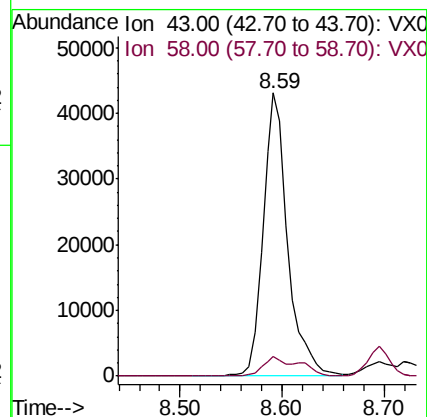
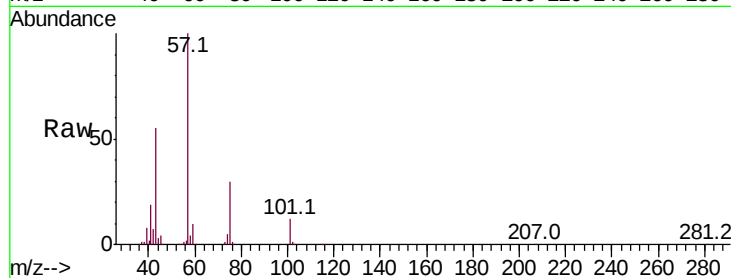
PB132784TB

Tot Ion: 43 Resp: 71927

Ion Ratio Lower Upper

43 100

58 6.7 35.0 52.4#



#54

cis-1,3-Dichloropropene

Concen: 5.263 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

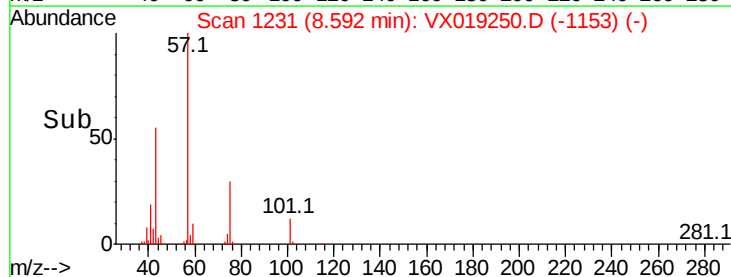
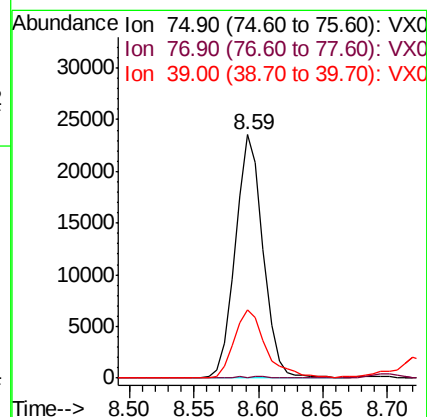
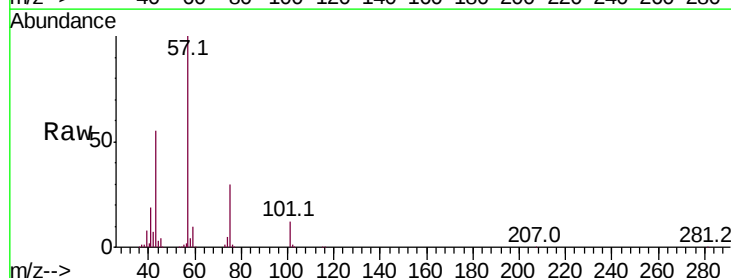
Tgt Ion: 75 Resp: 35424

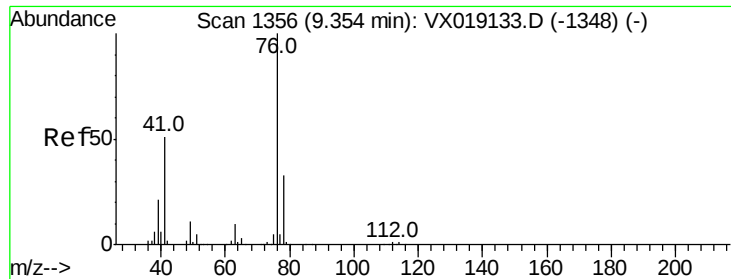
Ion Ratio Lower Upper

75 100

77 0.3 25.5 38.3#

39 28.2 36.2 54.2#





#57

1,3-Dichloropropane

Concen: 0.937 ug/l

RT: 9.52 min Scan# 1383

Delta R.T. 0.16 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampleId :

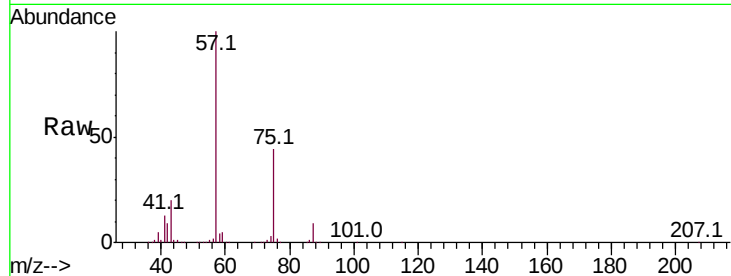
PB132784TB

Tot Ion: 76 Resp: 6314

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.52

4000

3000

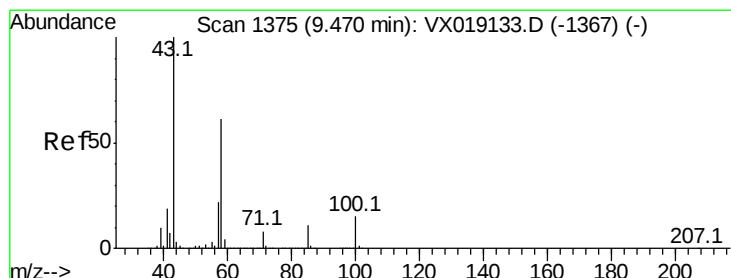
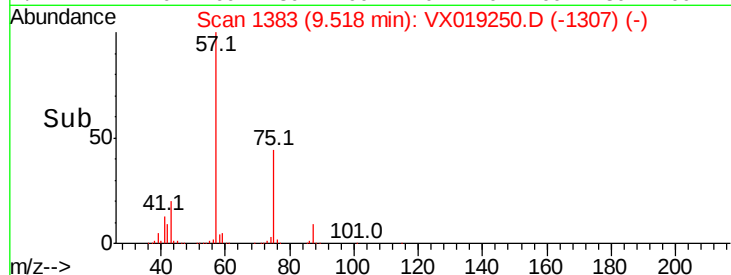
2000

1000

0

9.50 9.55

Time-->



#59

2-Hexanone

Concen: 18.418 ug/l

RT: 9.41 min Scan# 1366

Delta R.T. -0.06 min

Lab File: VX019250.D

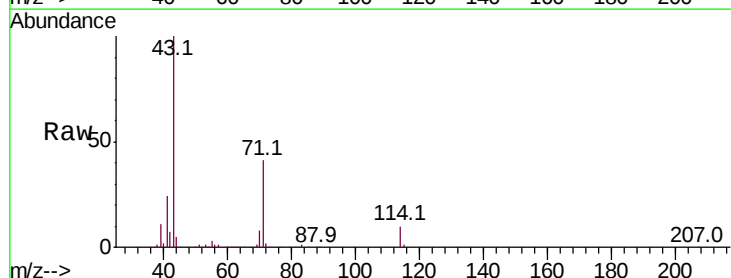
Acq: 03 Nov 2020 21:54

Tgt Ion: 43 Resp: 69363

Ion Ratio Lower Upper

43 100

58 0.0 30.5 91.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.41

50000

40000

30000

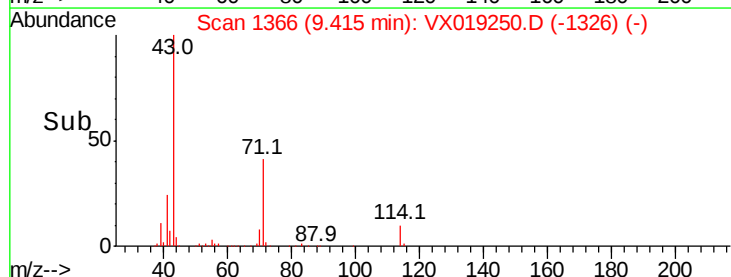
20000

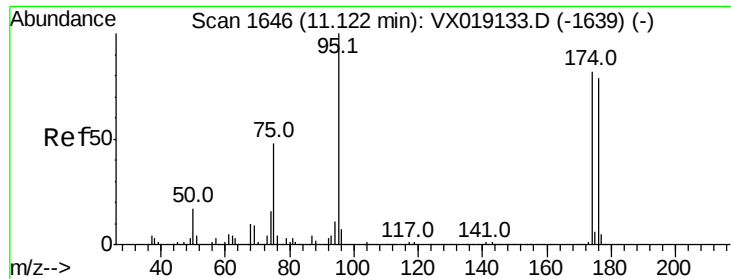
10000

0

9.40 9.45

Time-->





#62

4-Bromofluorobenzene

Concen: 56.350 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampleId :

PB132784TB

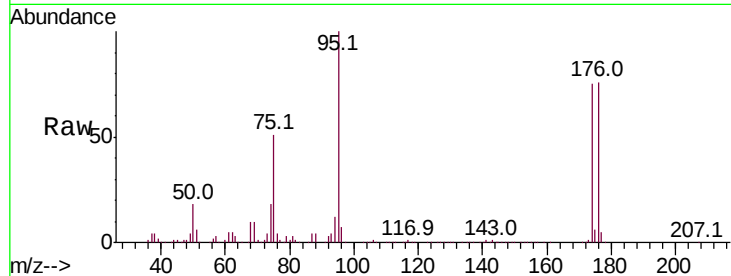
Tot Ion: 95 Resp: 302978

Ion Ratio Lower Upper

95 100

174 76.3 0.0 156.0

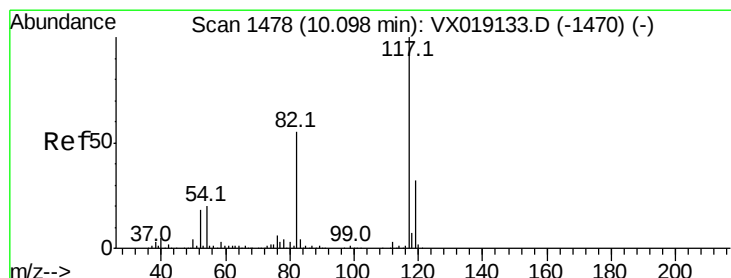
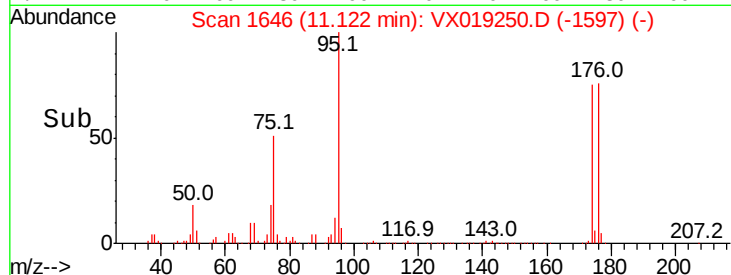
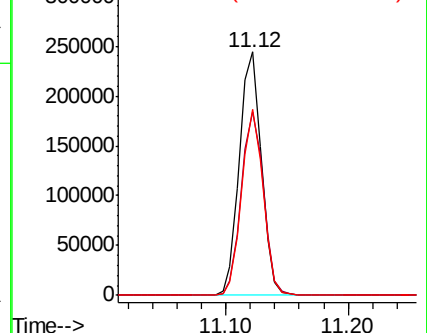
176 74.6 0.0 149.8



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: VX019250.D

Acq: 03 Nov 2020 21:54

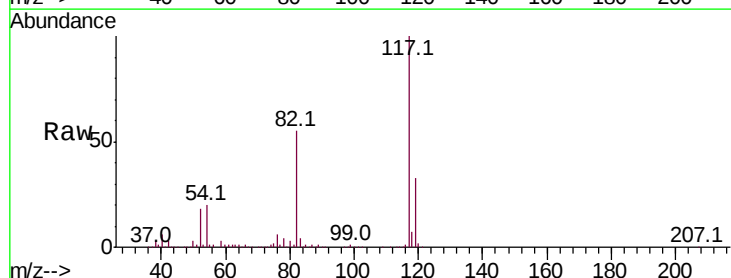
Tgt Ion: 117 Resp: 605304

Ion Ratio Lower Upper

117 100

82 54.8 43.6 65.4

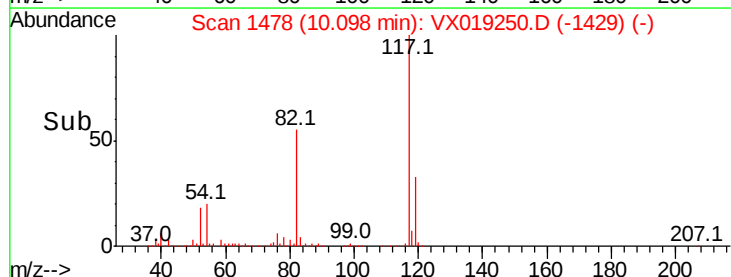
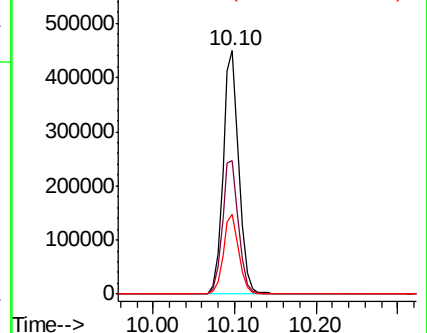
119 32.9 25.5 38.3

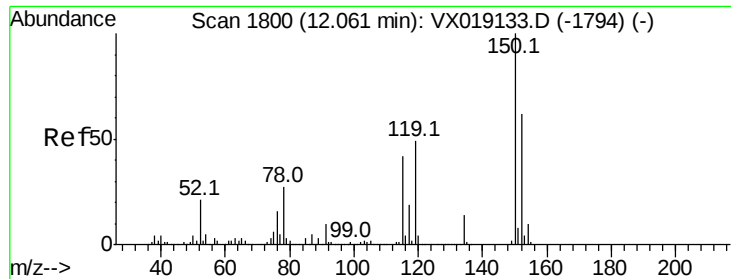


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampled :

PB132784TB

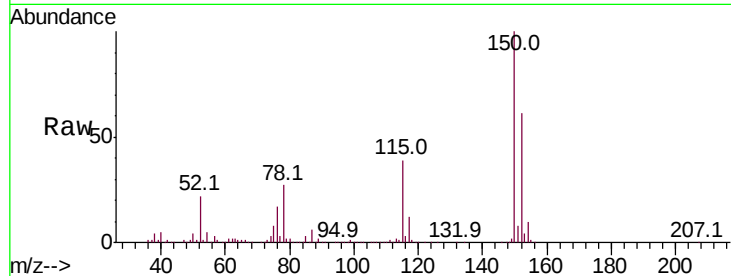
Tot Ion:152 Resp: 309461

Ion Ratio Lower Upper

152 100

115 62.3 41.9 125.7

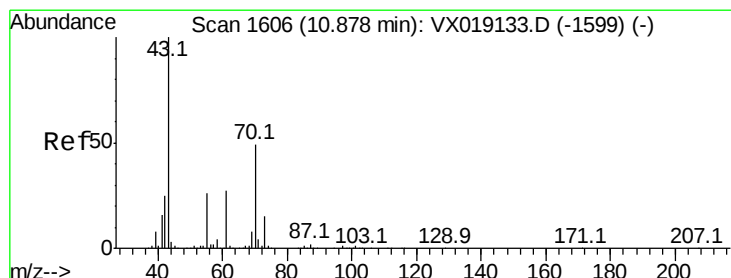
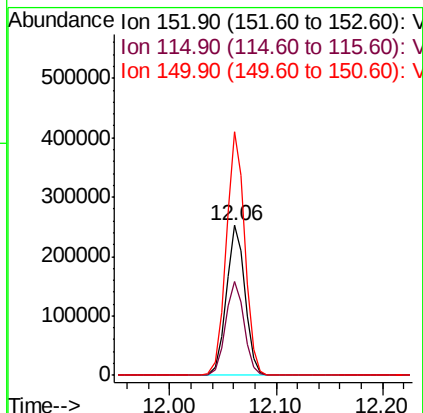
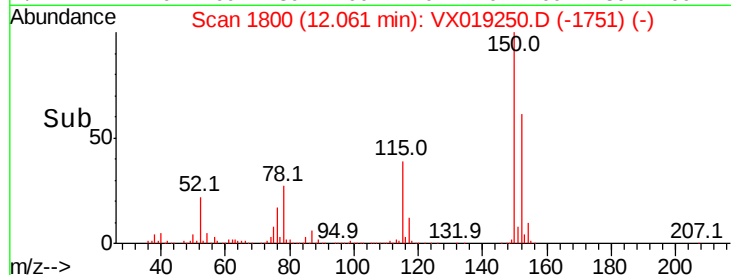
150 160.9 0.0 347.8



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-ethyl acetate

Concen: 0.372 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Tgt Ion: 43 Resp: 2981

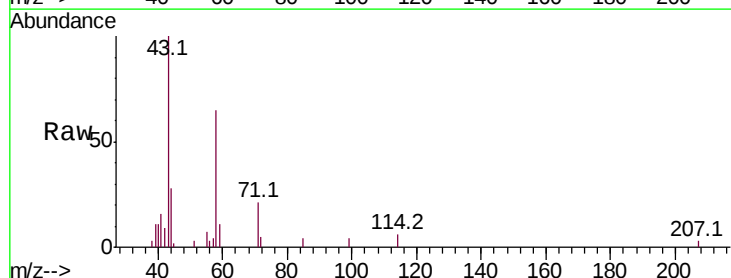
Ion Ratio Lower Upper

43 100

70 0.0 39.6 59.4#

55 10.2 20.7 31.1#

61 0.0 21.9 32.9#

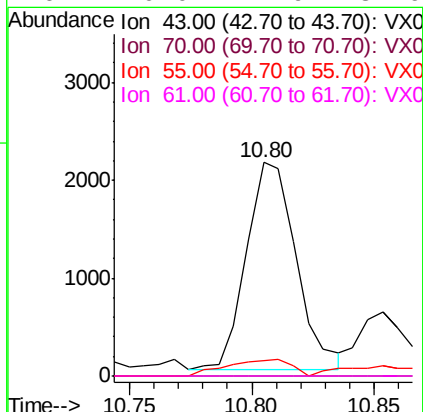
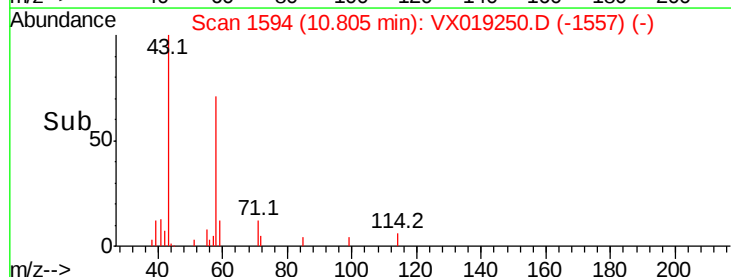


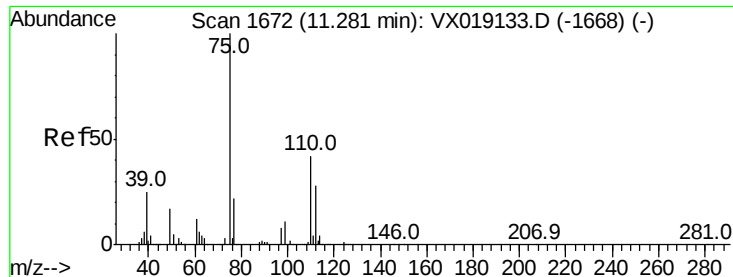
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.397 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Instrument :

MSVOA_X

ClientSampleId :

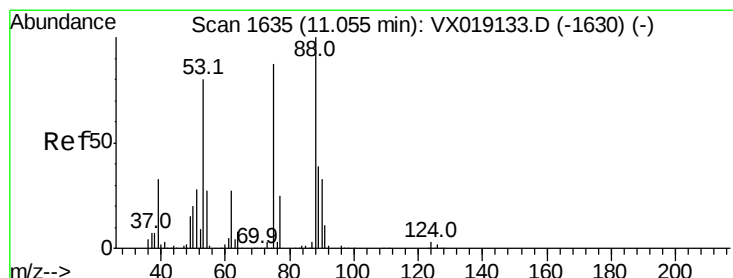
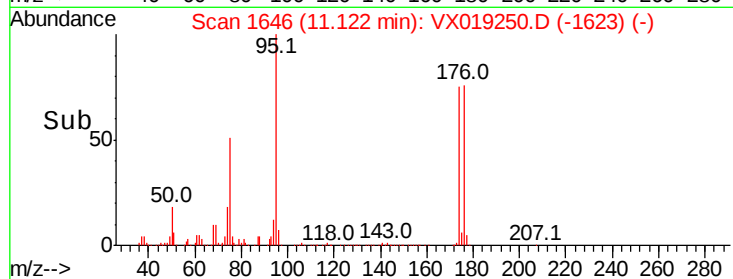
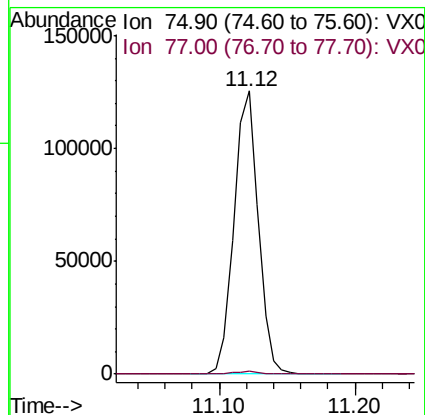
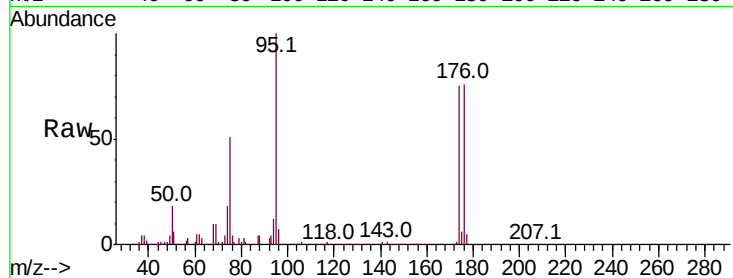
PB132784TB

Tot Ion: 75 Resp: 155887

Ion Ratio Lower Upper

75 100

77 1.1 20.3 60.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.236 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019250.D

Acq: 03 Nov 2020 21:54

Tgt Ion: 75 Resp: 155887

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#

