

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020021.D
 Acq On : 15 Dec 2020 18:54
 Operator : JC/MD
 Sample : PB133610ZHE#03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610ZHE#03

Quant Time: Dec 16 00:28:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	306680	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	521741	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	480698	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	210464	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	201070	49.88	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.76%	
35) Dibromofluoromethane		5.46	113	161380	47.86	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.72%	
50) Toluene-d8		8.70	98	639324	49.66	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.32%	
62) 4-Bromofluorobenzene		11.12	95	225988	46.12	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.24%	

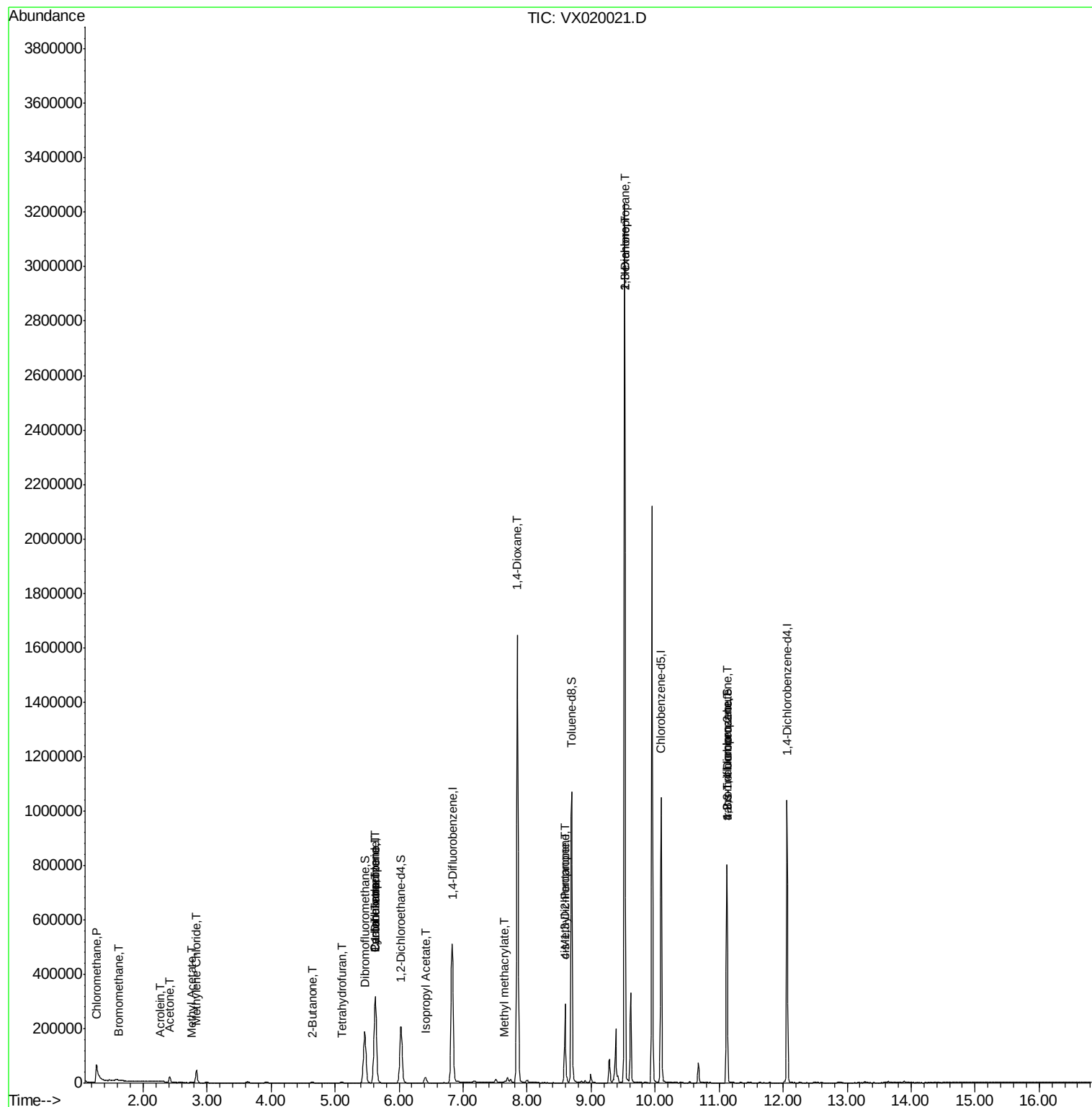
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.28	50	1952	0.591	ug/l #	42
5) Bromomethane	1.63	94	443	0.383	ug/l #	43
11) Tert butyl alcohol	2.99	59	1575	Below Cal	#	77
13) Acrolein	2.26	56	188	0.423	ug/l #	78
16) Acetone	2.42	43	20314	13.408	ug/l	95
18) Methyl Acetate	2.75	43	2111	0.569	ug/l	91
20) Methylene Chloride	2.83	84	21452	4.920	ug/l	96
25) 2-Butanone	4.65	43	3857	1.657	ug/l #	84
29) Tetrahydrofuran	5.11	42	1377	0.918	ug/l	90
31) Cyclohexane	5.62	56	6070	1.211	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23407	4.965	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29980	6.494	ug/l #	17
43) Isopropyl Acetate	6.41	43	25960	3.354	ug/l	98
48) Methyl methacrylate	7.65	41	7391	1.942	ug/l #	10
49) 1,4-Dioxane	7.84	88	291	3.156	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	92239	19.522	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	47868	8.232	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	29197	4.711	ug/l #	43
59) 2-Hexanone	9.52	43	347961	95.007	ug/l #	47
76) 1,2,3-Trichloropropane	11.12	75	109256	23.146	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	109256	66.910	ug/l #	12

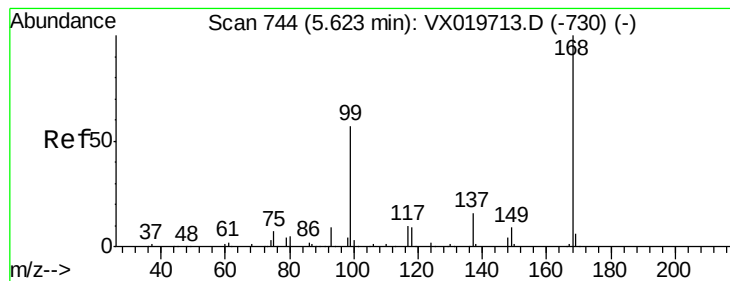
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
PB133610ZHE#03

Quant Time: Dec 16 00:28:24 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

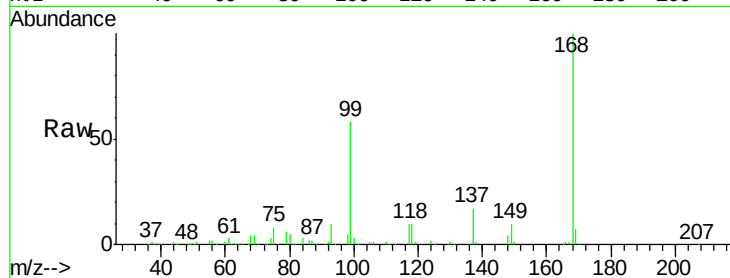
PB133610ZHE#03

Tgt Ion:168 Resp: 306680

Ion Ratio Lower Upper

168 100

99 57.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

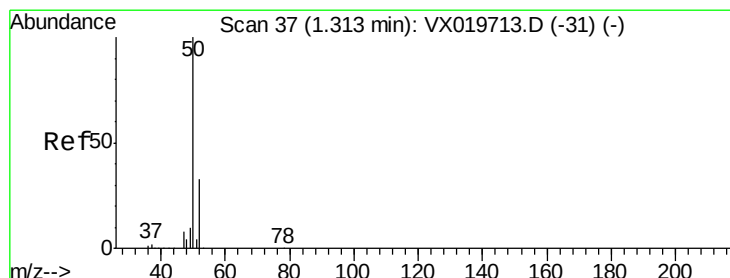
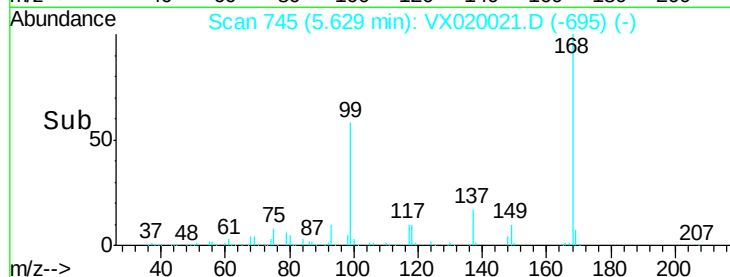
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.591 ug/l

RT: 1.28 min Scan# 31

Delta R.T. -0.04 min

Lab File: VX020021.D

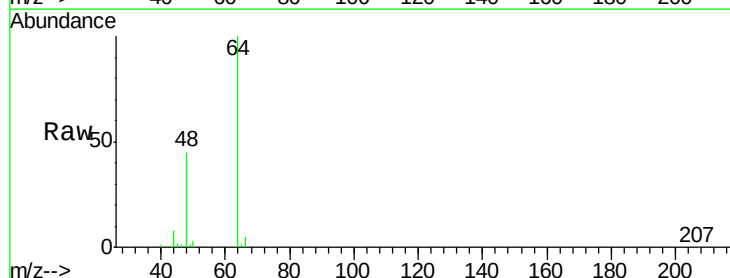
Acq: 15 Dec 2020 18:54

Tgt Ion: 50 Resp: 1952

Ion Ratio Lower Upper

50 100

52 0.0 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.28

1000

800

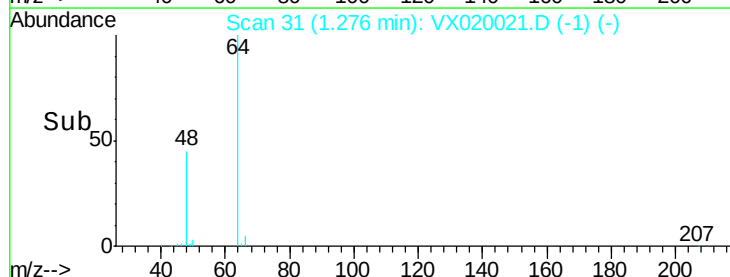
600

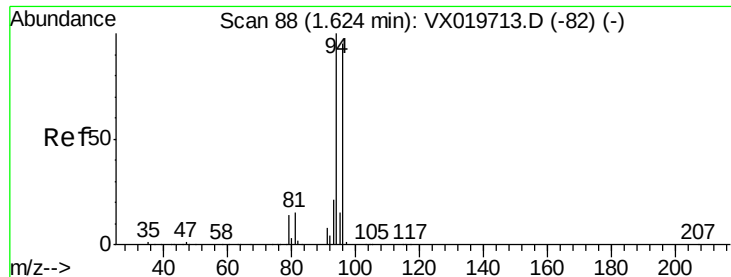
400

200

0

Time-->





#5

Bromomethane

Concen: 0.383 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

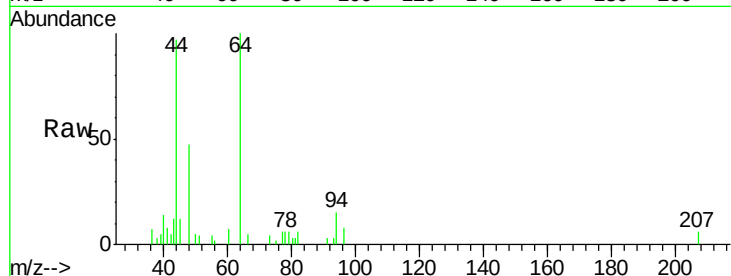
PB133610ZHE#03

Tgt Ion: 94 Resp: 443

Ion Ratio Lower Upper

94 100

96 40.2 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

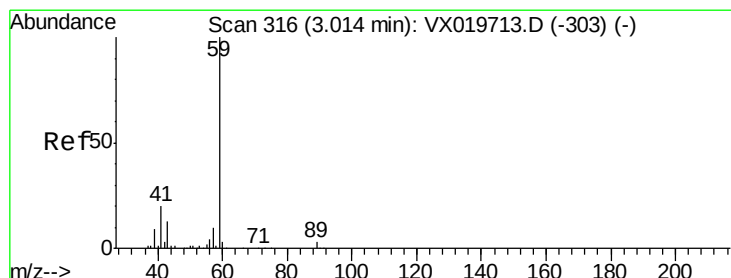
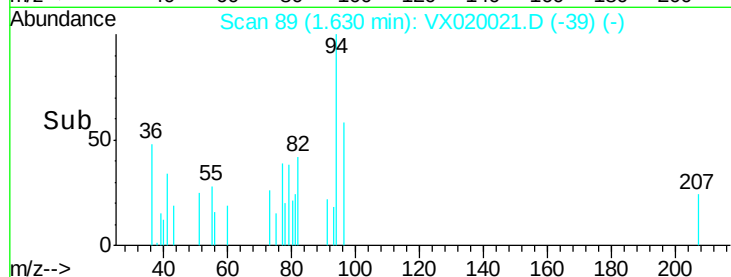
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX020021.D

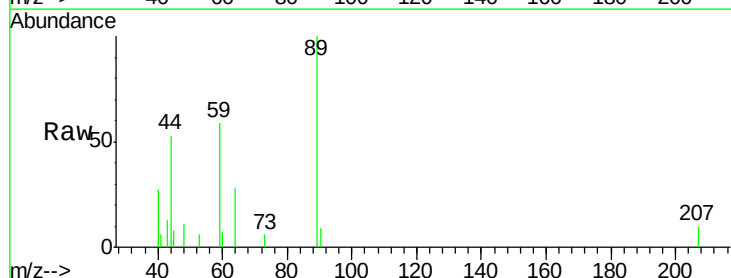
Acq: 15 Dec 2020 18:54

Tgt Ion: 59 Resp: 1575

Ion Ratio Lower Upper

59 100

57 1.2 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2.99

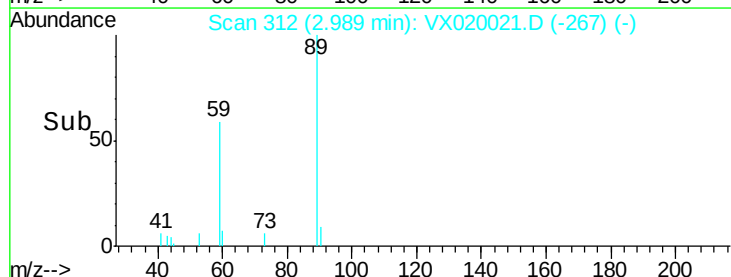
600

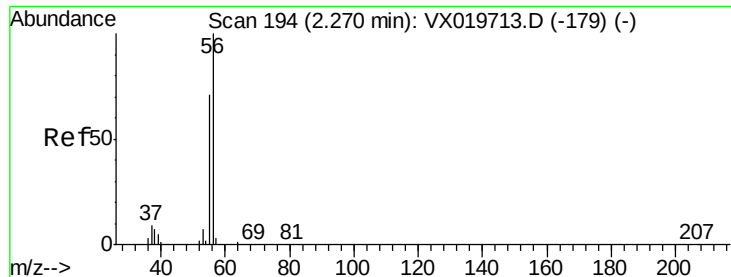
400

200

0

Time-->





#13

Acrolein

Concen: 0.423 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

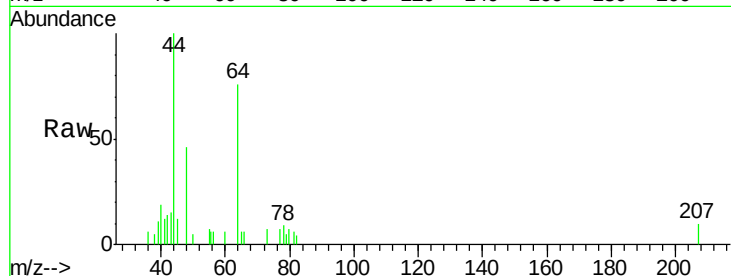
PB133610ZHE#03

Tgt Ion: 56 Resp: 188

Ion Ratio Lower Upper

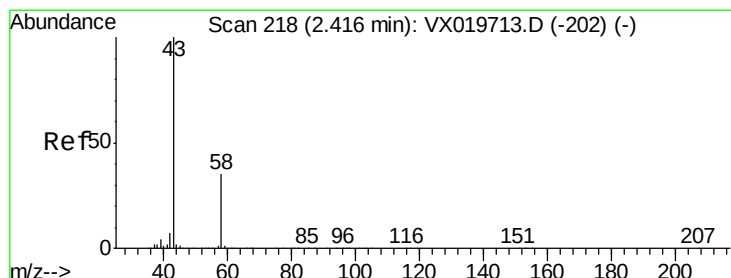
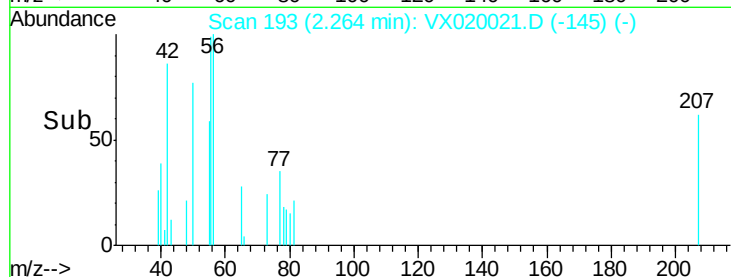
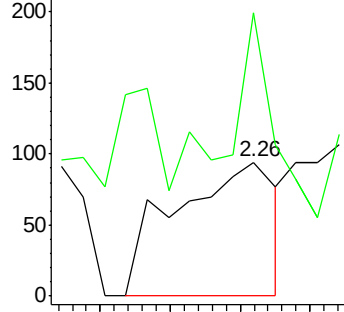
56 100

55 52.1 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 13.408 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX020021.D

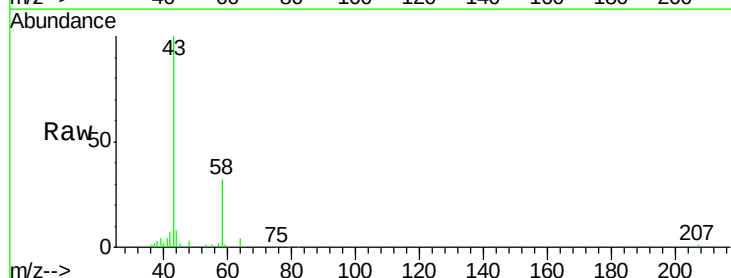
Acq: 15 Dec 2020 18:54

Tgt Ion: 43 Resp: 20314

Ion Ratio Lower Upper

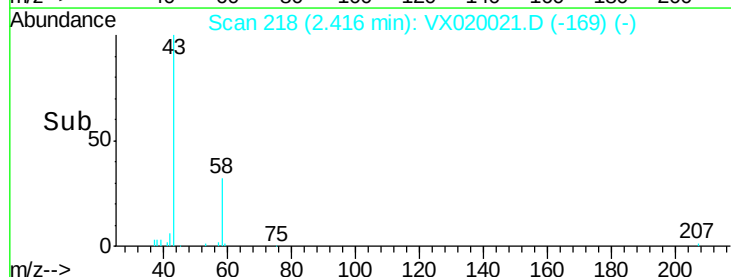
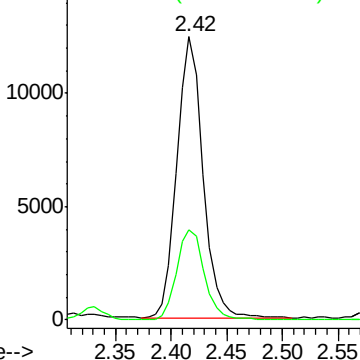
43 100

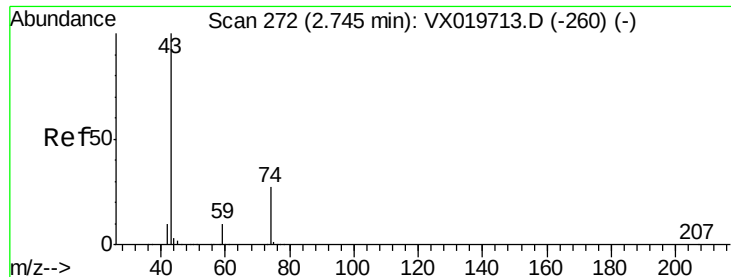
58 32.1 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

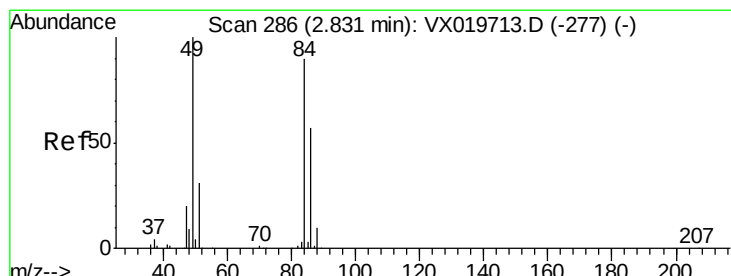
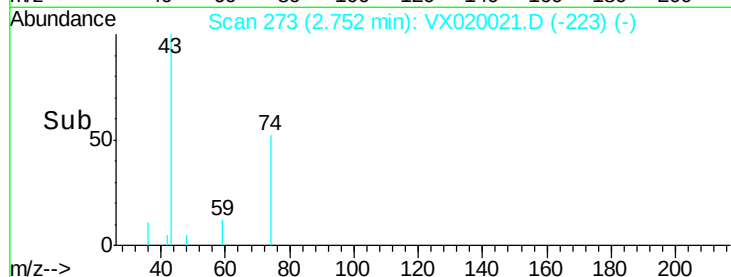
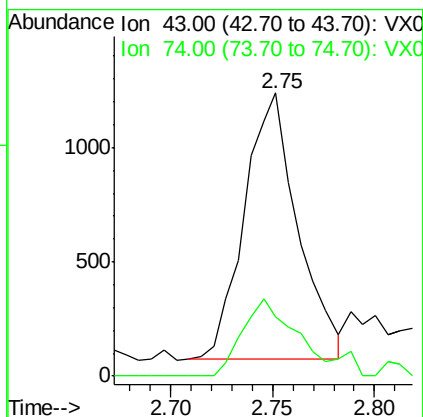
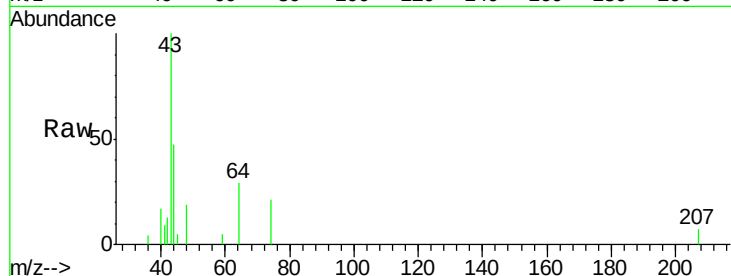




#18
Methyl Acetate
Concen: 0.569 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX020021.D
Acq: 15 Dec 2020 18:54

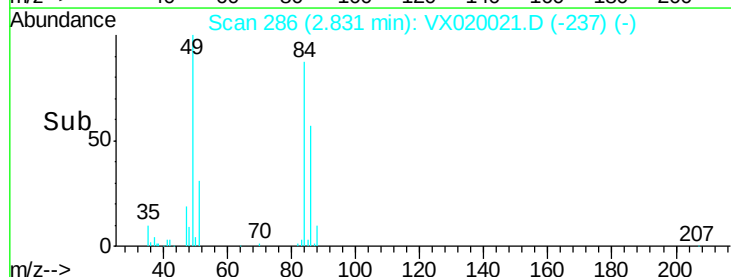
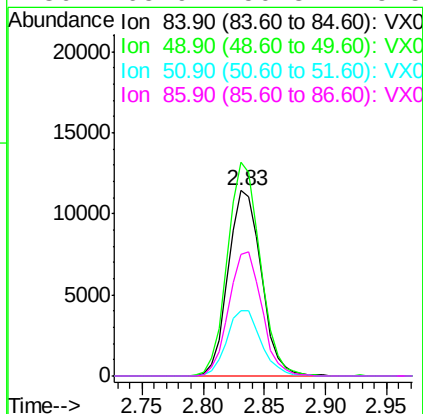
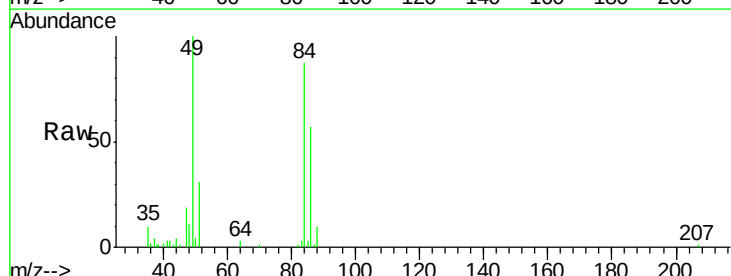
Instrument :
MSVOA_X
ClientSampleId :
PB133610ZHE#03

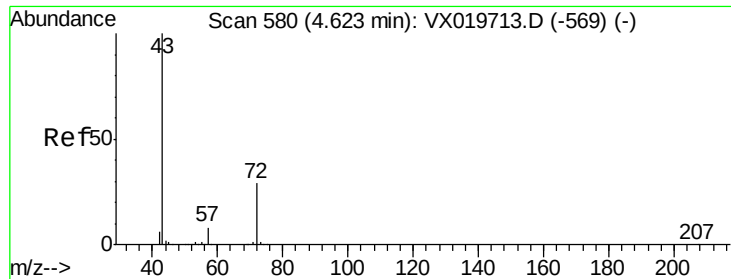
Tgt Ion: 43 Resp: 2111
Ion Ratio Lower Upper
43 100
74 32.1 21.9 32.9



#20
Methylene Chloride
Concen: 4.920 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX020021.D
Acq: 15 Dec 2020 18:54

Tgt Ion: 84 Resp: 21452
Ion Ratio Lower Upper
84 100
49 115.3 88.6 132.8
51 35.4 27.0 40.6
86 65.9 50.3 75.5





#25

2-Butanone

Concen: 1.657 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

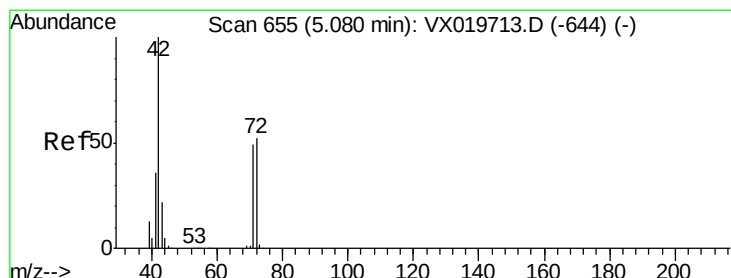
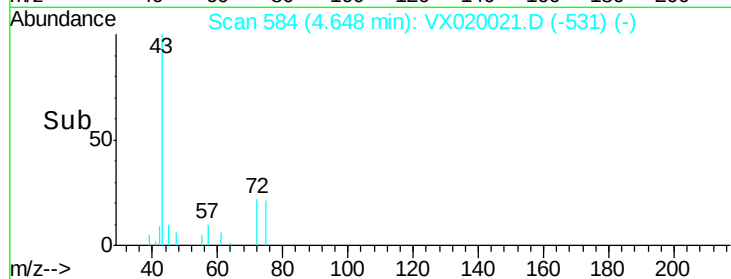
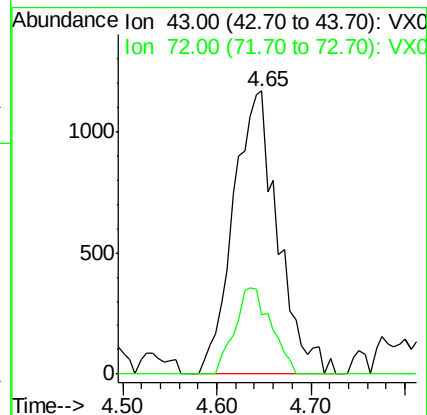
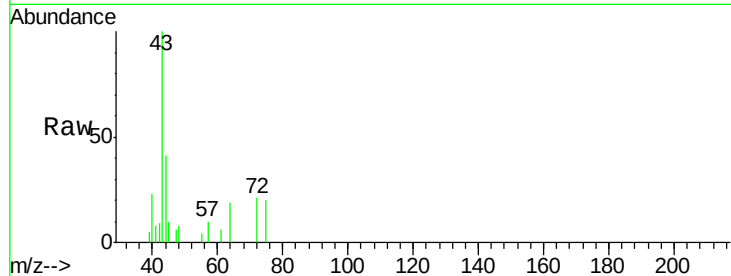
PB133610ZHE#03

Tgt Ion: 43 Resp: 3857

Ion Ratio Lower Upper

43 100

72 20.9 23.7 35.5#



#29

Tetrahydrofuran

Concen: 0.918 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.03 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

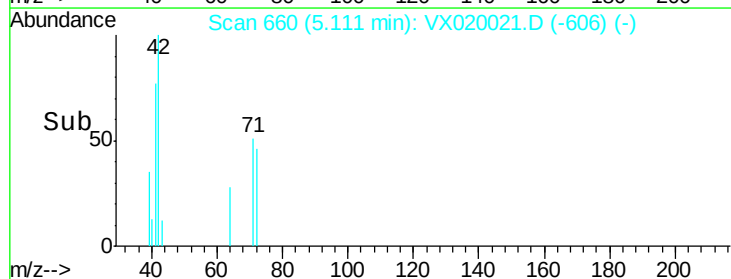
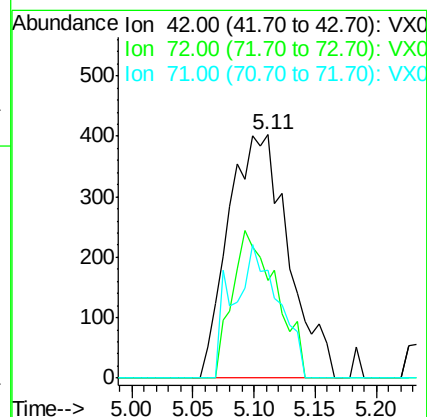
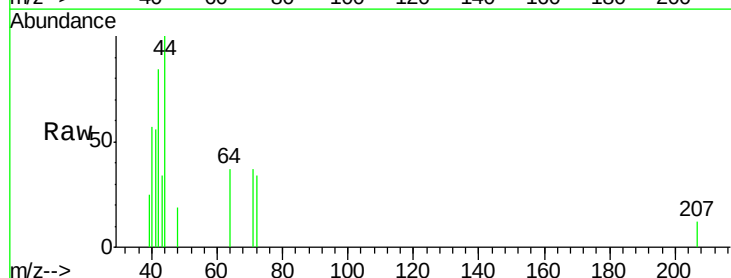
Tgt Ion: 42 Resp: 1377

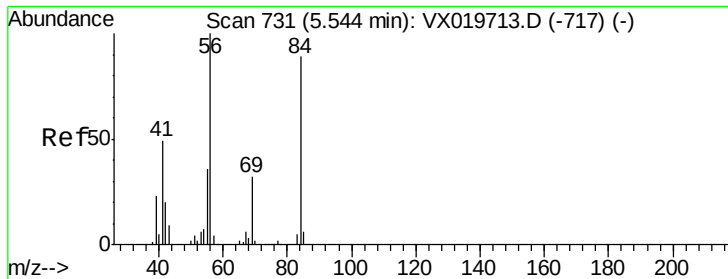
Ion Ratio Lower Upper

42 100

72 44.2 41.7 62.5

71 41.6 38.4 57.6

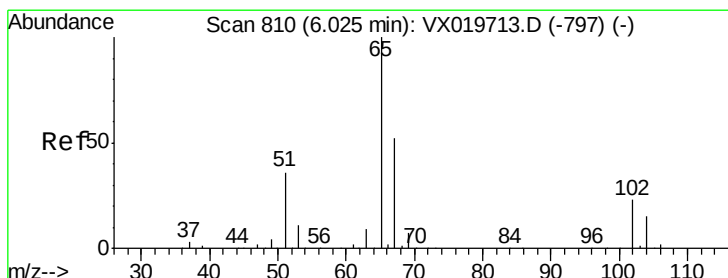
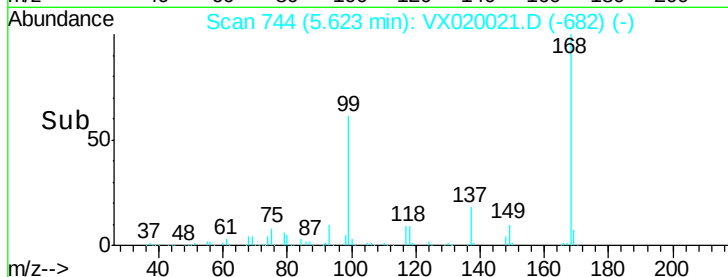
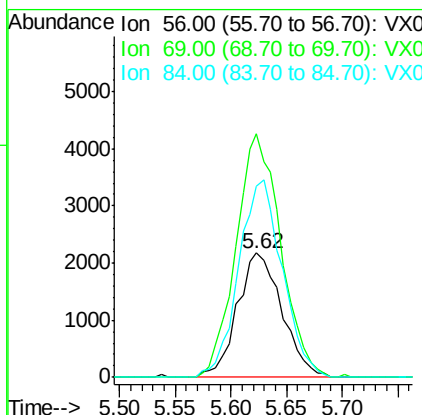
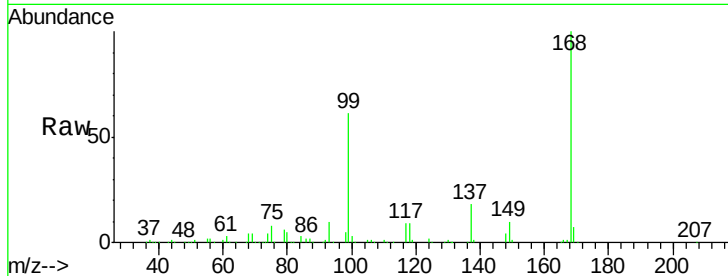




#31
Cyclohexane
Concen: 1.211 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX020021.D
Acq: 15 Dec 2020 18:54

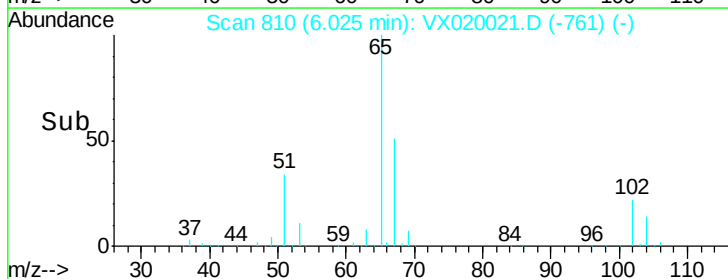
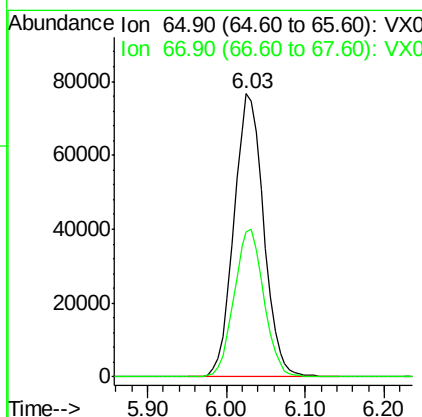
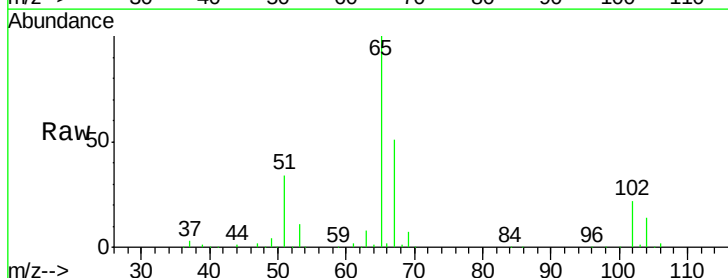
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ClientSampleId :
PB133610ZHE#03

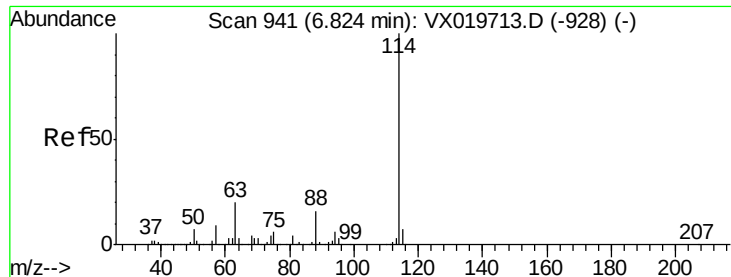
Tgt Ion: 56 Resp: 6070
Ion Ratio Lower Upper
56 100
69 196.3 25.3 37.9#
84 153.8 71.4 107.0#



#33
1,2-Dichloroethane-d4
Concen: 49.885 ug/l
RT: 6.03 min Scan# 810
Delta R.T. 0.00 min
Lab File: VX020021.D
Acq: 15 Dec 2020 18:54

Tgt Ion: 65 Resp: 201070
Ion Ratio Lower Upper
65 100
67 52.2 0.0 105.4

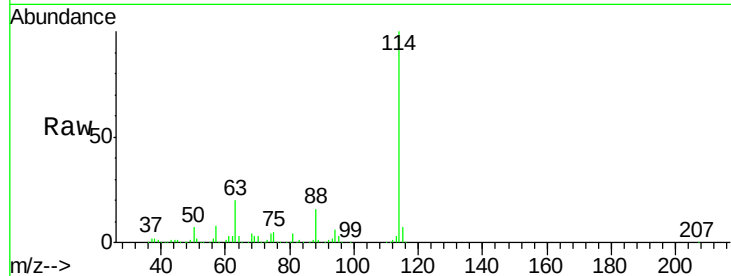




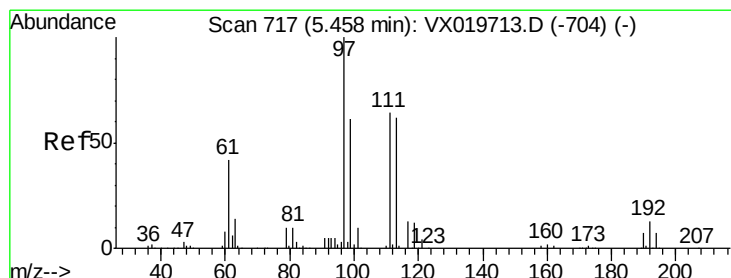
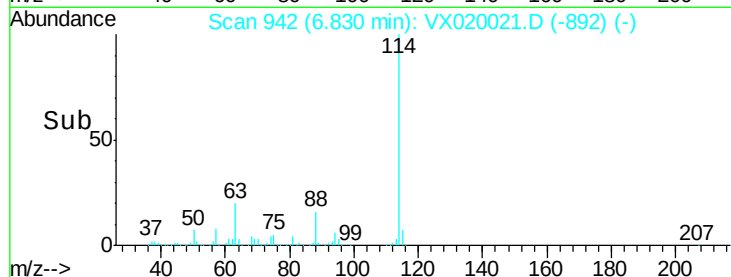
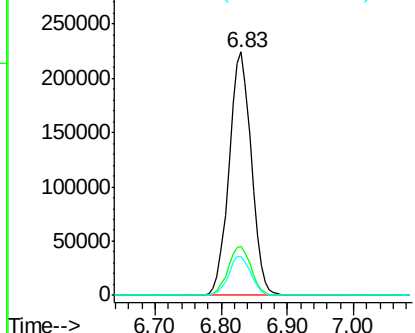
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX020021.D
 Acq: 15 Dec 2020 18:54

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610ZHE#03

Tgt Ion:	114	Resp:	521741
Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.8
88	16.1	0.0	32.8

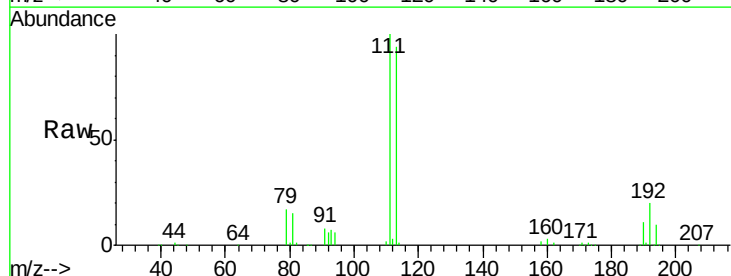


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

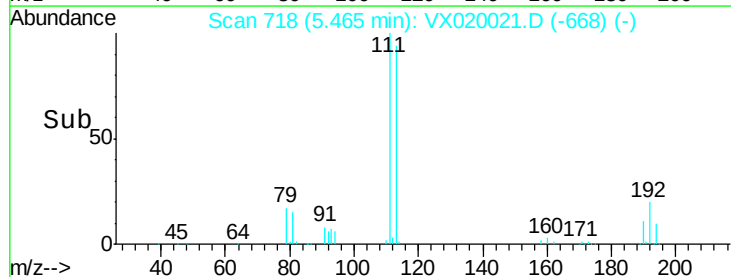
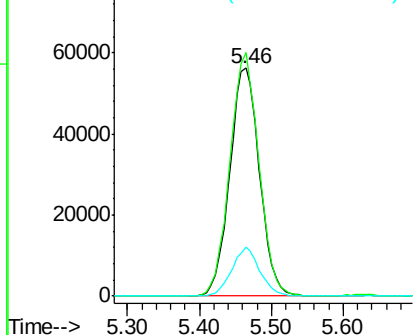


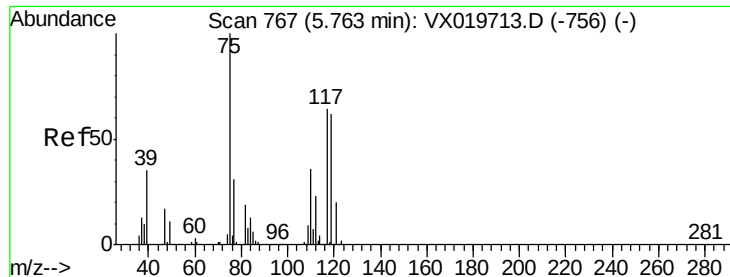
#35
 Dibromofluoromethane
 Concen: 47.860 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX020021.D
 Acq: 15 Dec 2020 18:54

Tgt Ion:	113	Resp:	161380
Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.9	122.9
192	20.2	16.7	25.1



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: 4.965 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#03

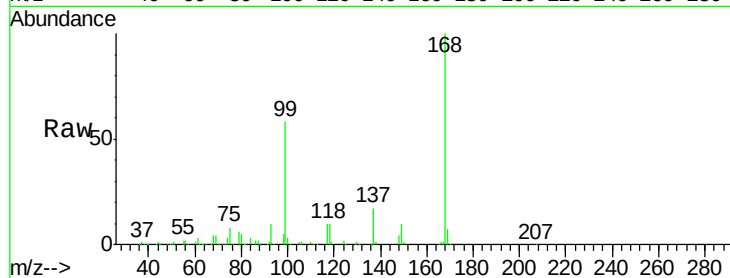
Tgt Ion: 75 Resp: 23407

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.4#

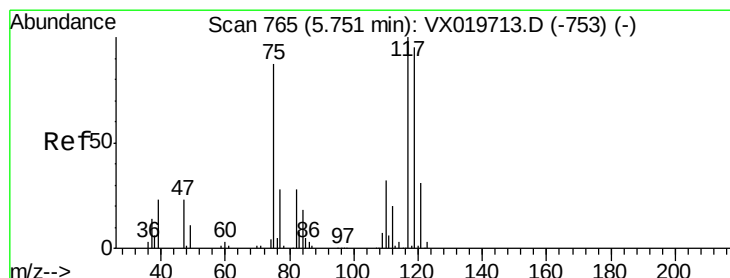
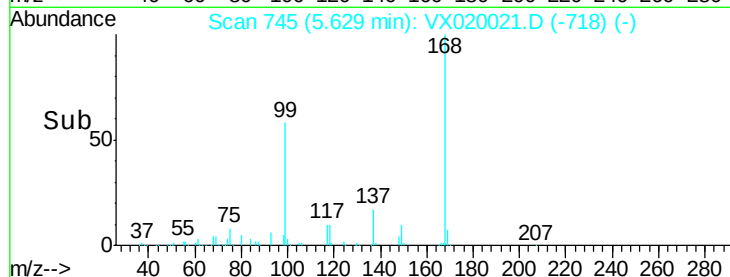
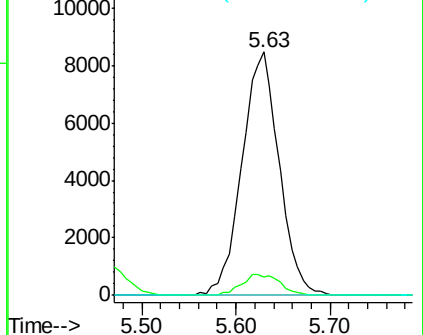
77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.494 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

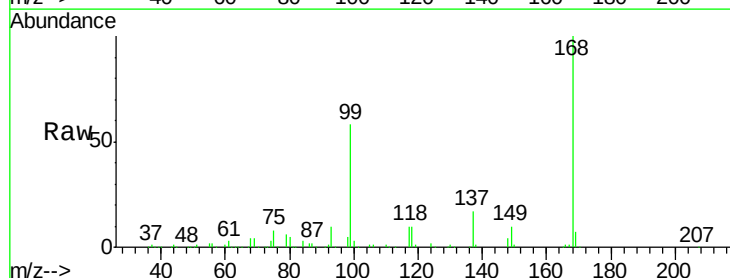
Tgt Ion: 117 Resp: 29980

Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.2#

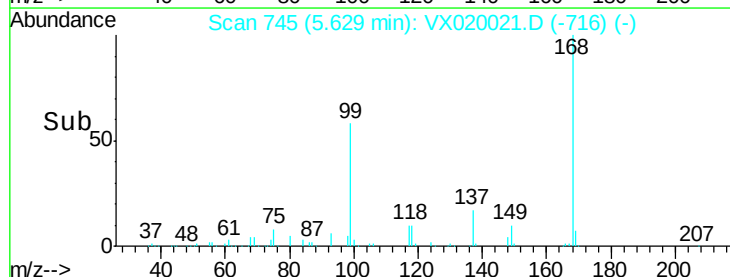
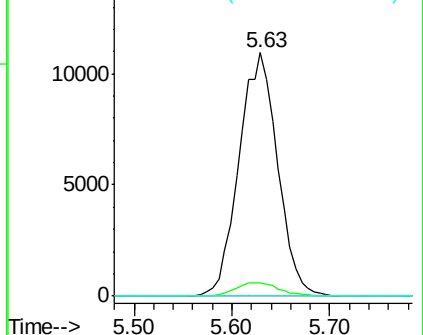
121 0.0 24.8 37.2#

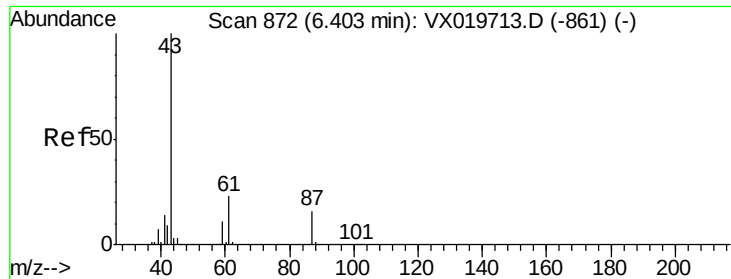


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 3.354 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#03

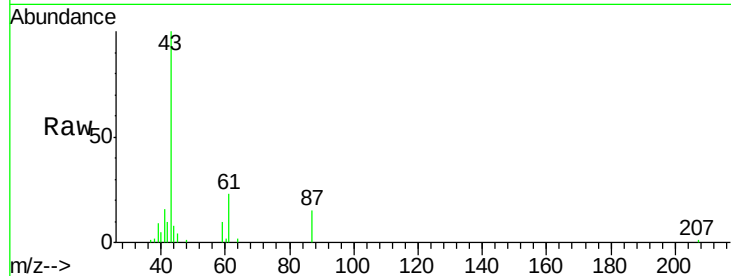
Tgt Ion: 43 Resp: 25960

Ion Ratio Lower Upper

43 100

61 21.7 18.2 27.4

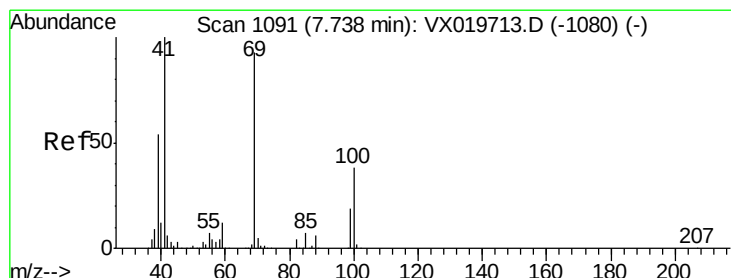
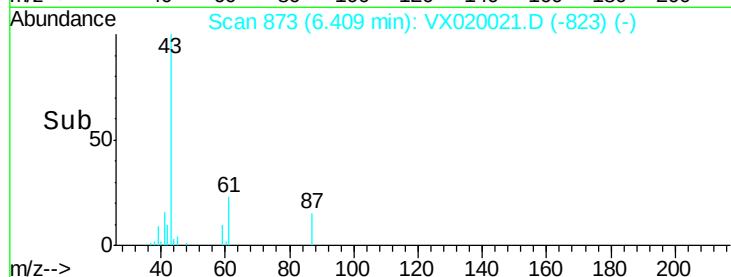
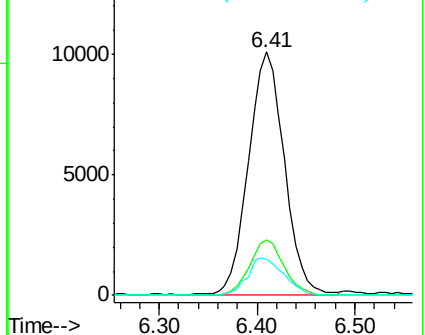
87 15.4 12.5 18.7



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: 1.942 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

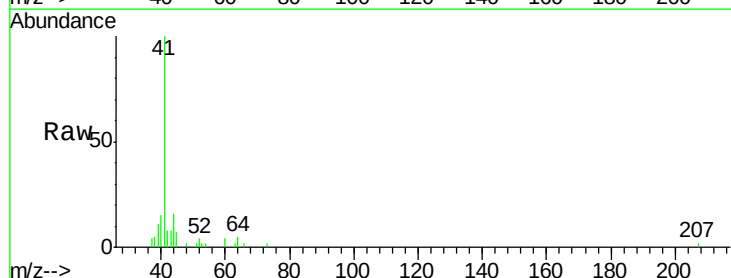
Tgt Ion: 41 Resp: 7391

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

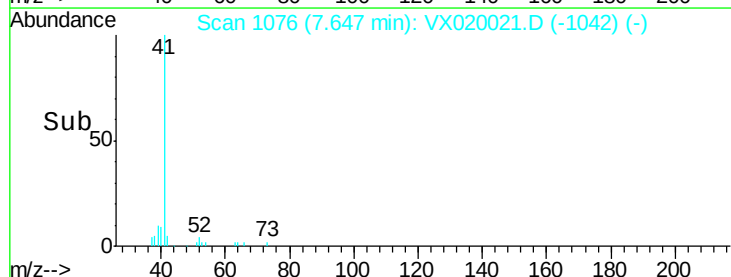
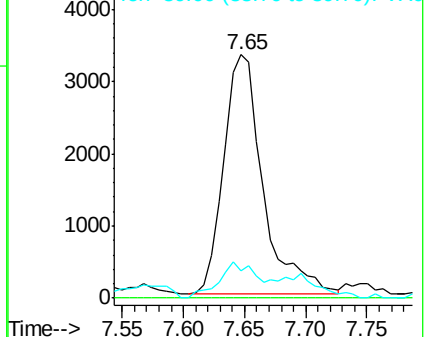
39 0.0 44.6 67.0#

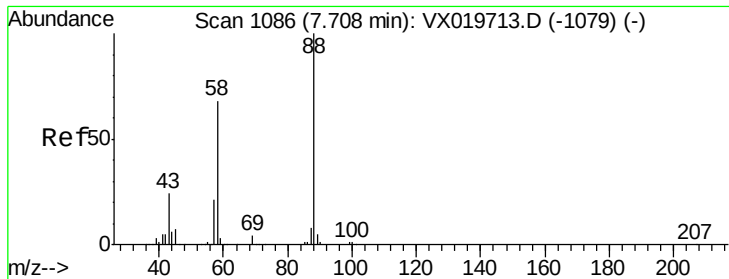


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 3.156 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.13 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#03

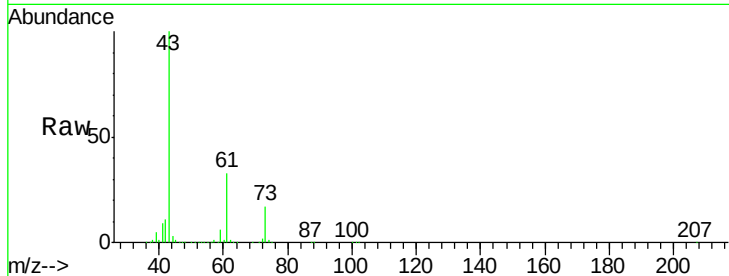
Tgt Ion: 88 Resp: 291

Ion Ratio Lower Upper

88 100

43 487569.4 23.2 34.8#

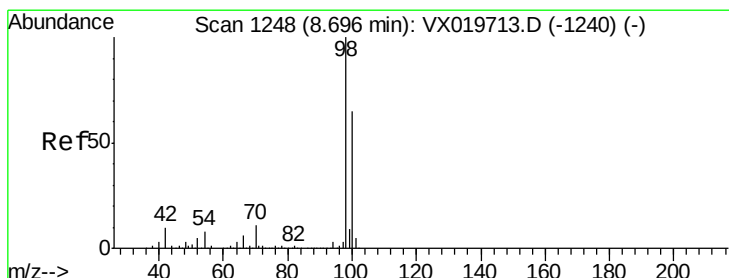
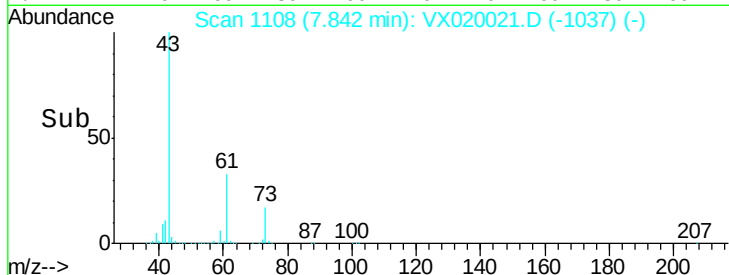
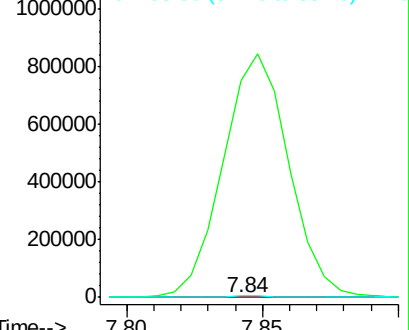
58 2481.8 55.0 82.4#



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: 49.663 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX020021.D

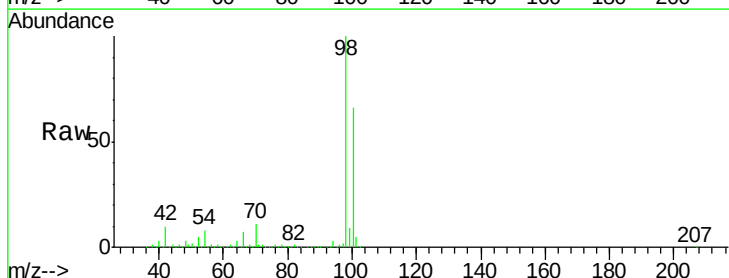
Acq: 15 Dec 2020 18:54

Tgt Ion: 98 Resp: 639324

Ion Ratio Lower Upper

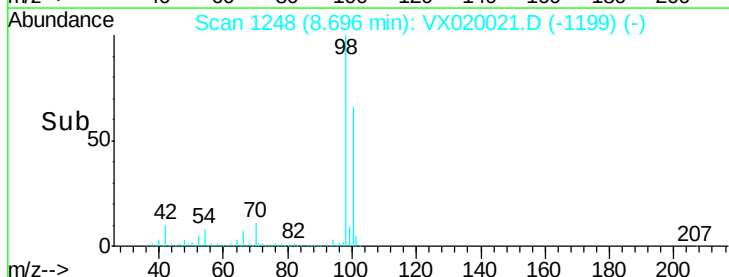
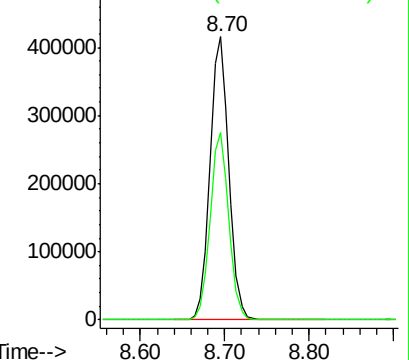
98 100

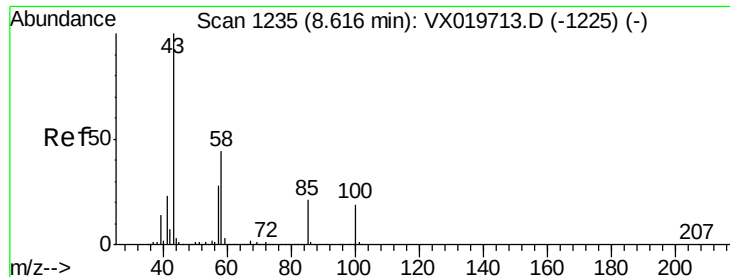
100 65.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 19.522 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

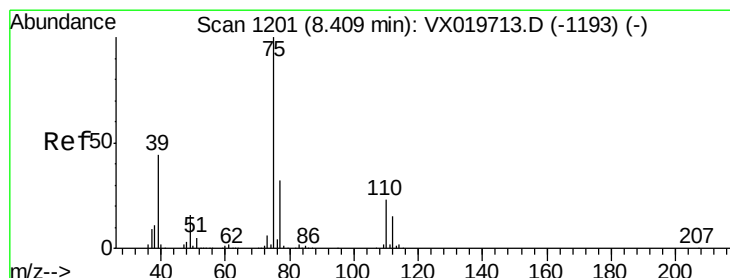
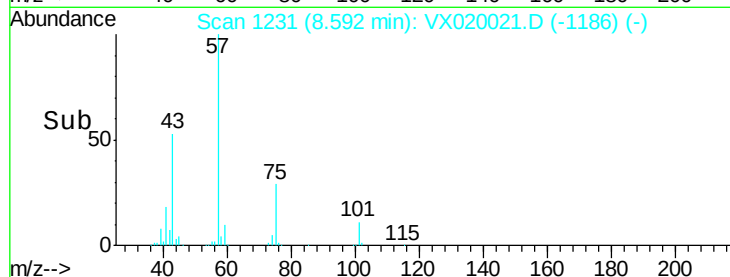
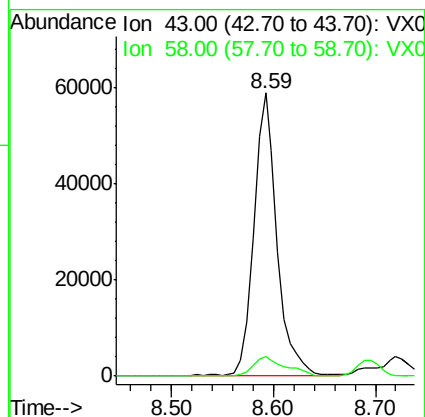
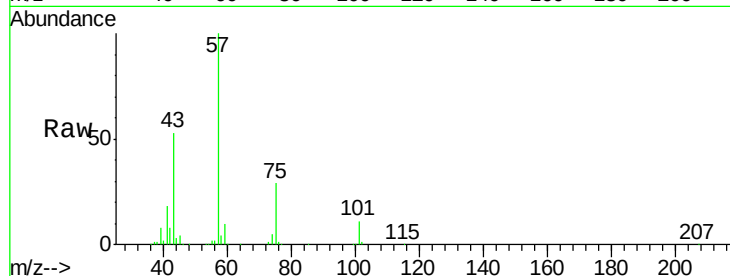
PB133610ZHE#03

Tgt Ion: 43 Resp: 92239

Ion Ratio Lower Upper

43 100

58 9.6 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 8.232 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

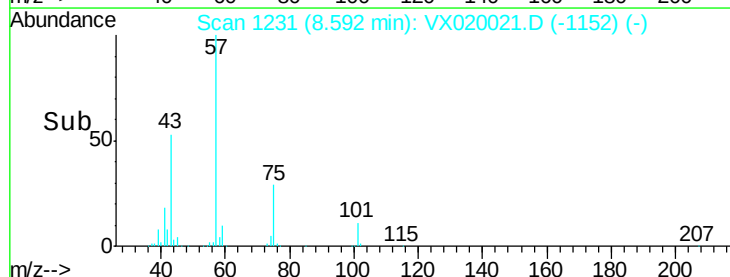
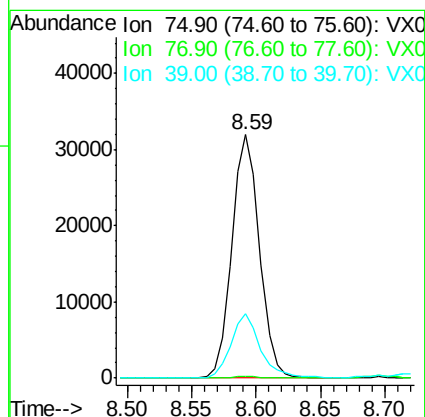
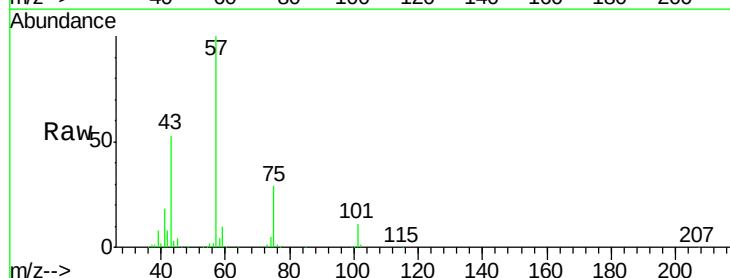
Tgt Ion: 75 Resp: 47868

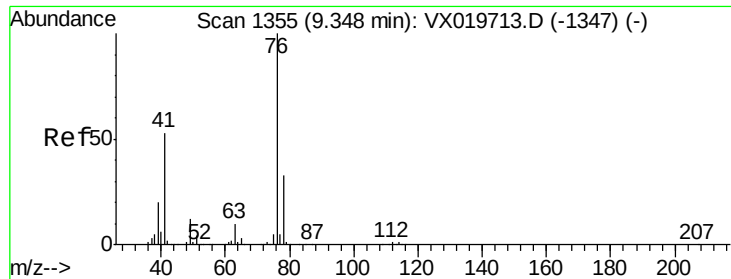
Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

39 26.4 35.1 52.7#

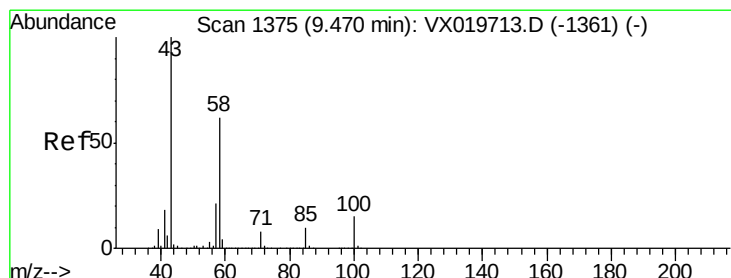
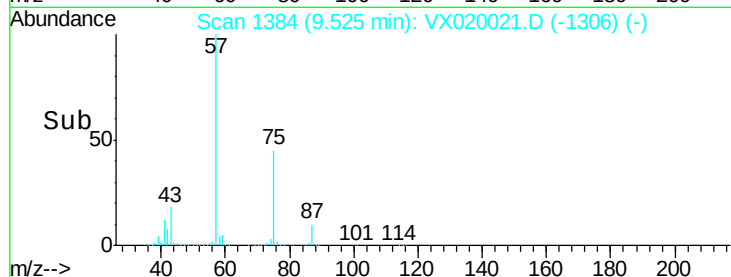
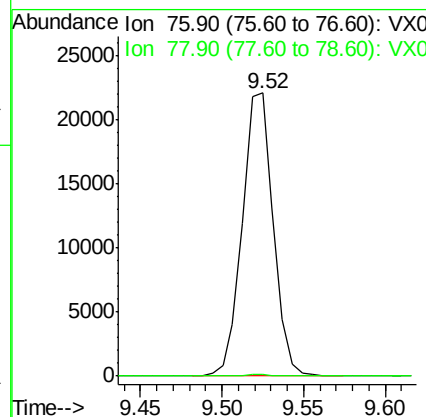
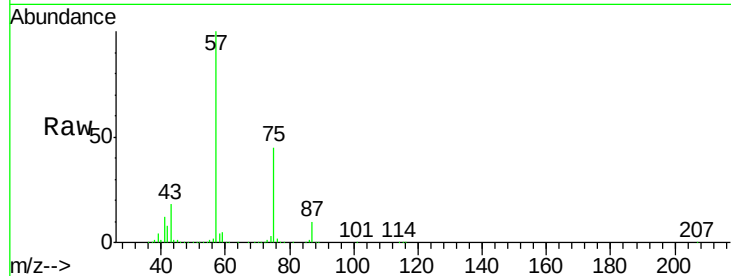




#57
 1,3-Dichloropropane
 Concen: 4.711 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX020021.D
 Acq: 15 Dec 2020 18:54

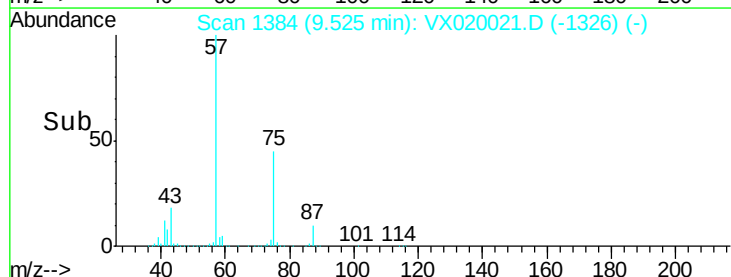
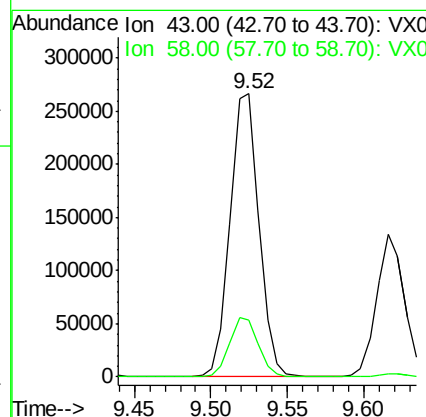
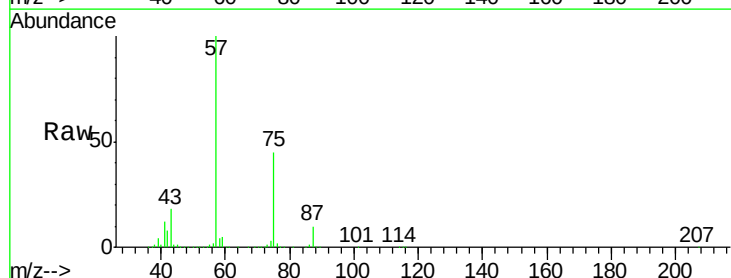
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610ZHE#03

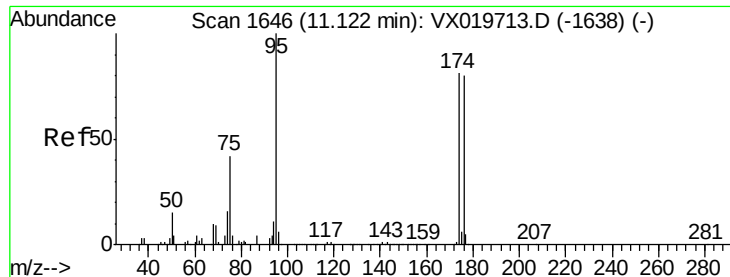
Tgt Ion: 76 Resp: 29197
 Ion Ratio Lower Upper
 76 100
 78 0.4 26.2 39.2#



#59
 2-Hexanone
 Concen: 95.007 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX020021.D
 Acq: 15 Dec 2020 18:54

Tgt Ion: 43 Resp: 347961
 Ion Ratio Lower Upper
 43 100
 58 20.9 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 46.123 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#03

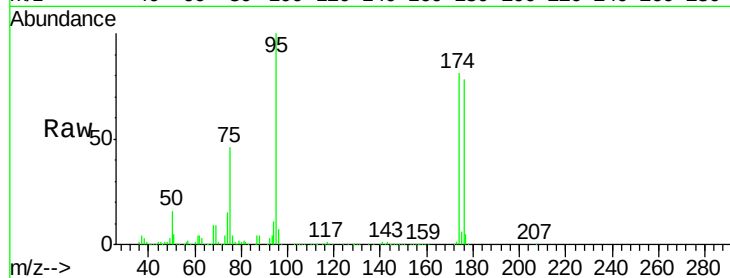
Tgt Ion: 95 Resp: 225988

Ion Ratio Lower Upper

95 100

174 76.9 0.0 154.6

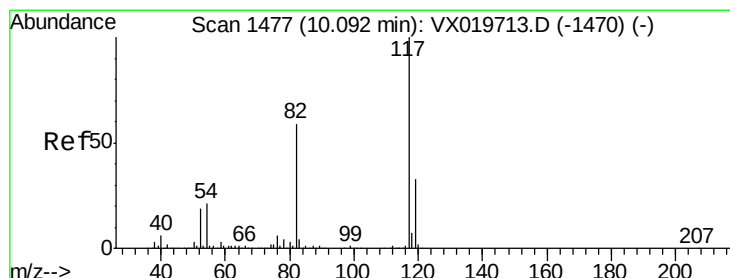
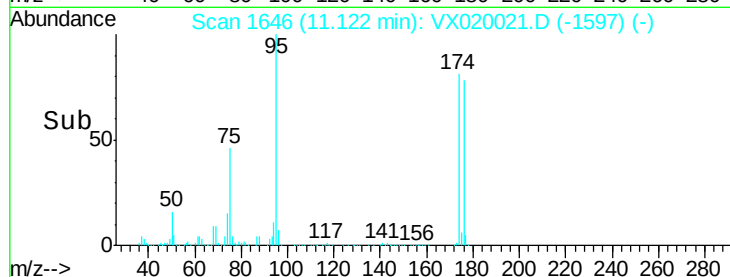
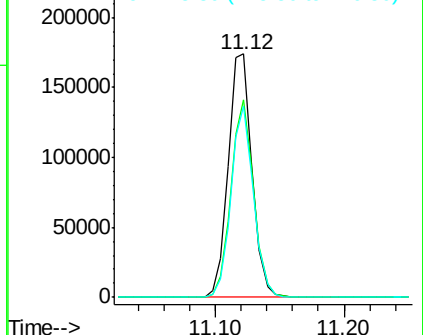
176 73.6 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

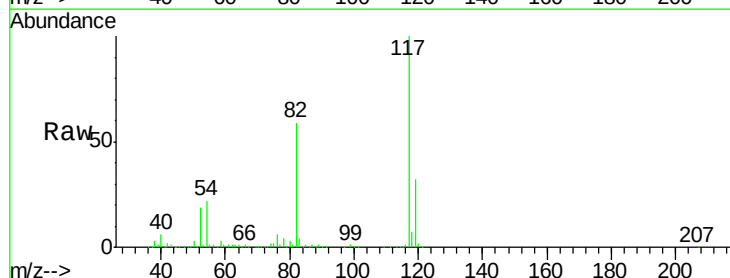
Tgt Ion: 117 Resp: 480698

Ion Ratio Lower Upper

117 100

82 59.0 47.4 71.2

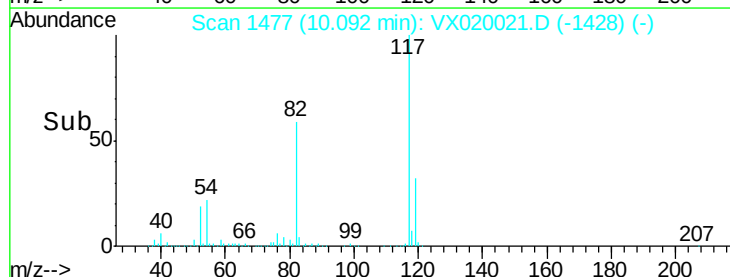
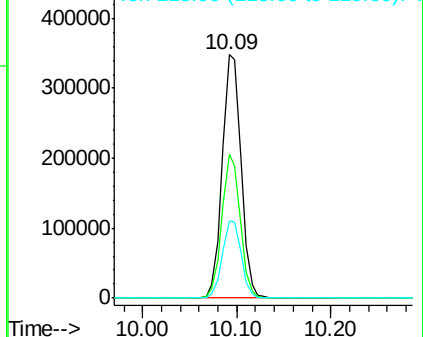
119 31.6 26.6 39.8

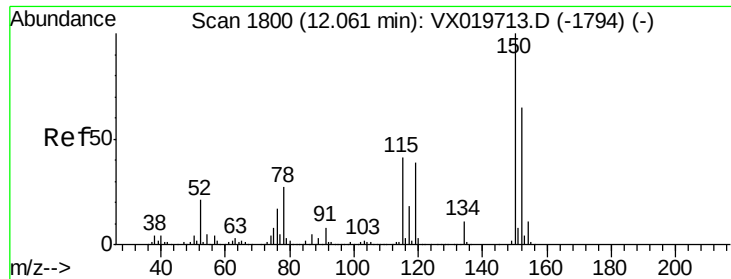


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): 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: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#03

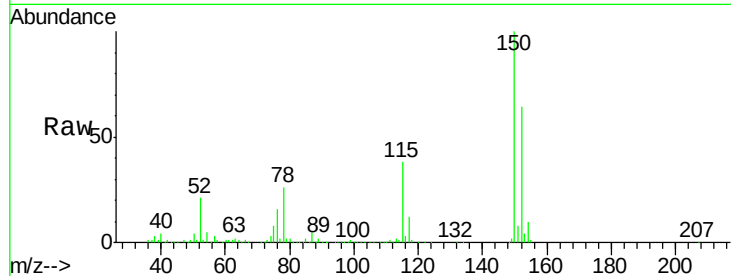
Tgt Ion:152 Resp: 210464

Ion Ratio Lower Upper

152 100

115 59.4 41.1 123.3

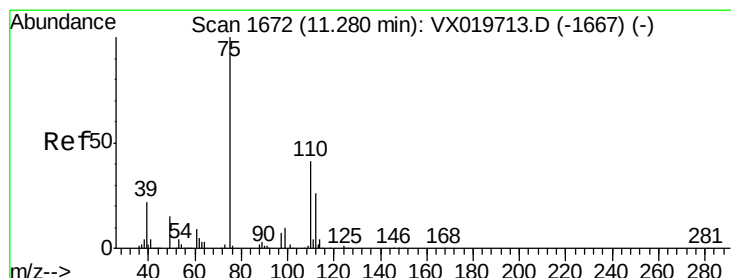
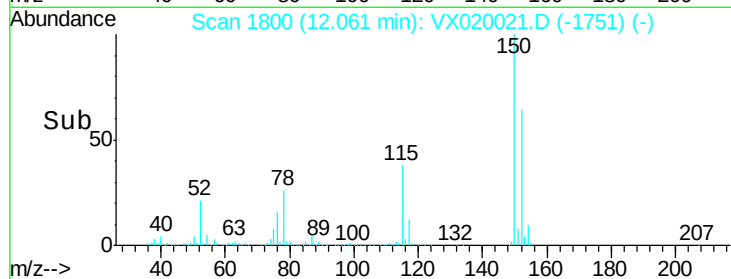
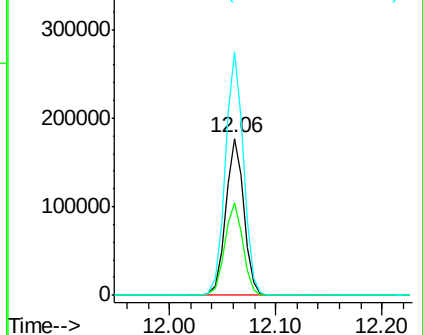
150 155.7 0.0 349.0



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: 23.146 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX020021.D

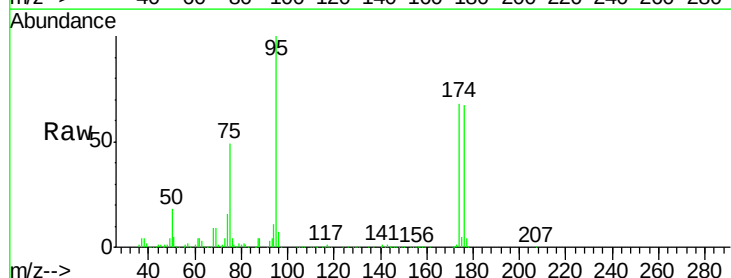
Acq: 15 Dec 2020 18:54

Tgt Ion: 75 Resp: 109256

Ion Ratio Lower Upper

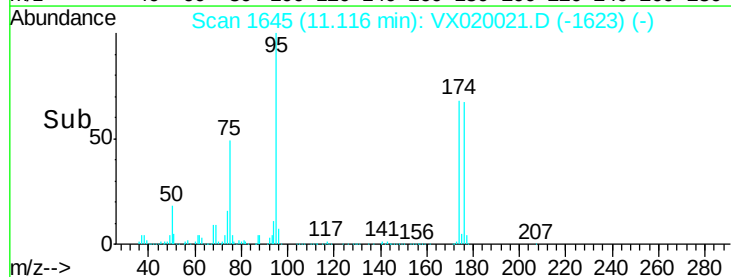
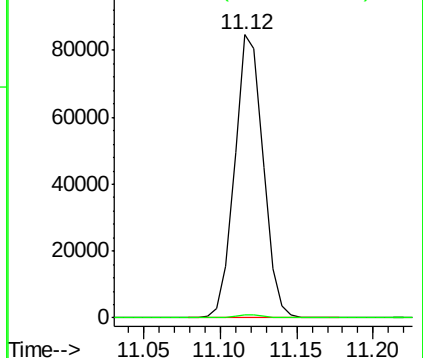
75 100

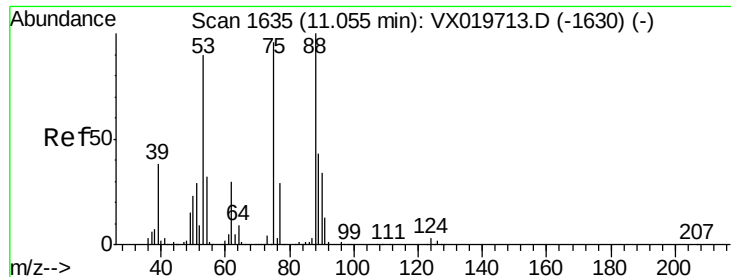
77 1.2 19.1 57.5#



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: 66.910 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX020021.D

Acq: 15 Dec 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#03

Tgt Ion: 75 Resp: 109256

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

