

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020028.D
 Acq On : 15 Dec 2020 21:37
 Operator : JC/MD
 Sample : PB133610ZHE#10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610ZHE#10

Quant Time: Dec 16 00:31:16 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	313375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	519644	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	494654	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	212629	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	201799	49.00	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.00%	
35) Dibromofluoromethane		5.46	113	164153	48.88	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.76%	
50) Toluene-d8		8.70	98	653851	51.00	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.00%	
62) 4-Bromofluorobenzene		11.12	95	228264	46.78	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.56%	

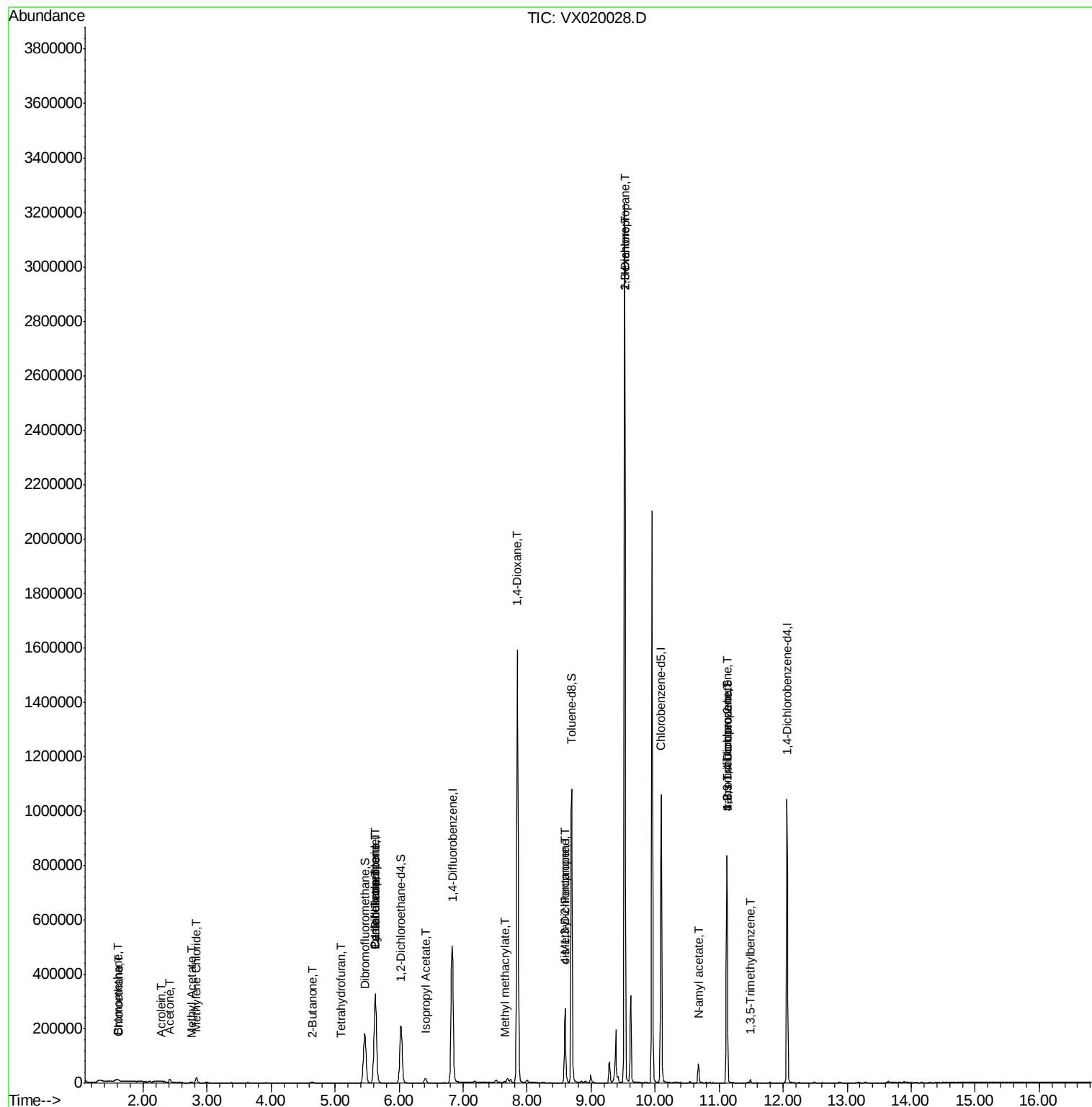
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	392	0.332	ug/l #	52
6) Chloroethane	1.63	64	887	0.415	ug/l #	52
11) Tert butyl alcohol	2.99	59	1412	Below Cal	#	73
13) Acrolein	2.28	56	223	0.491	ug/l #	57
16) Acetone	2.42	43	13047	8.428	ug/l	96
18) Methyl Acetate	2.75	43	3156	0.833	ug/l #	89
20) Methylene Chloride	2.84	84	9744	1.374	ug/l	97
25) 2-Butanone	4.64	43	3301	1.388	ug/l	96
29) Tetrahydrofuran	5.09	42	443	0.289	ug/l #	85
31) Cyclohexane	5.62	56	6068	1.184	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23986	5.108	ug/l #	48
38) Carbon Tetrachloride	5.63	117	30568	6.648	ug/l #	16
43) Isopropyl Acetate	6.41	43	23835	3.092	ug/l	98
48) Methyl methacrylate	7.65	41	6682	1.763	ug/l #	10
49) 1,4-Dioxane	7.85	88	286	3.114	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	84629	17.983	ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	45174	7.800	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	28321	4.588	ug/l #	43
59) 2-Hexanone	9.52	43	345622	94.749	ug/l #	46
74) N-amyl acetate	10.68	43	16355	2.809	ug/l #	49
76) 1,2,3-Trichloropropane	11.12	75	110423	23.155	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.49	105	5552	0.453	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.12	75	110423	66.936	ug/l #	12

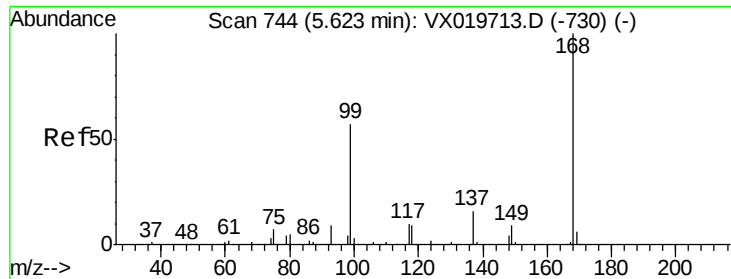
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

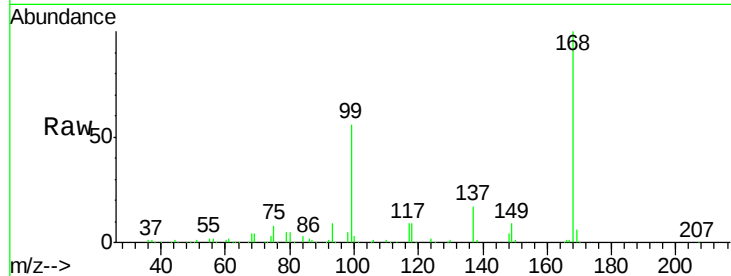
PB133610ZHE#10

Tgt Ion:168 Resp: 313375

Ion Ratio Lower Upper

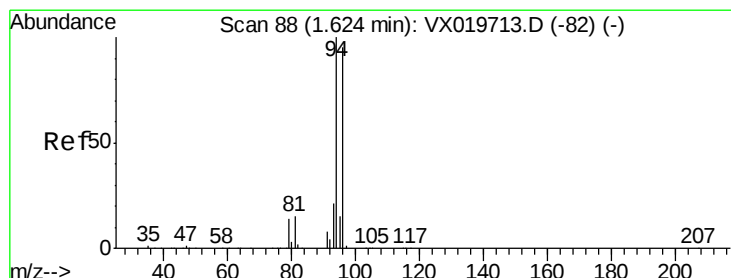
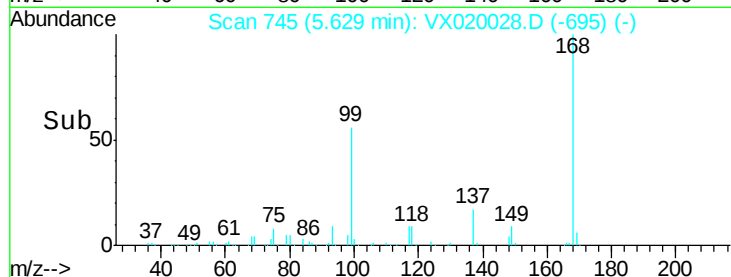
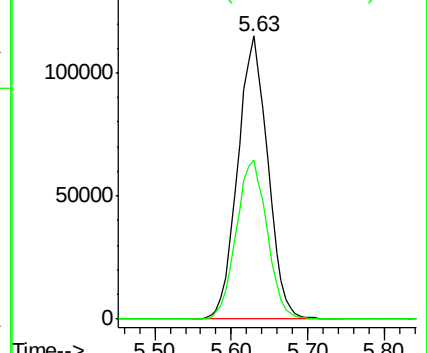
168 100

99 56.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.332 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX020028.D

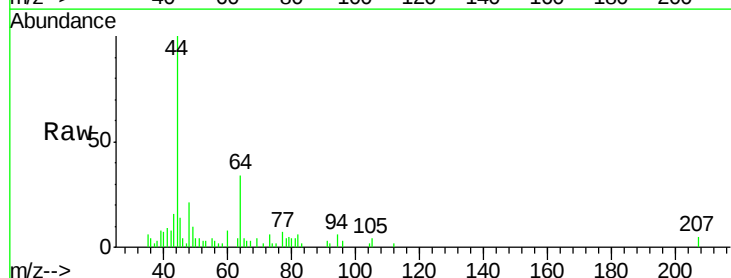
Acq: 15 Dec 2020 21:37

Tgt Ion: 94 Resp: 392

Ion Ratio Lower Upper

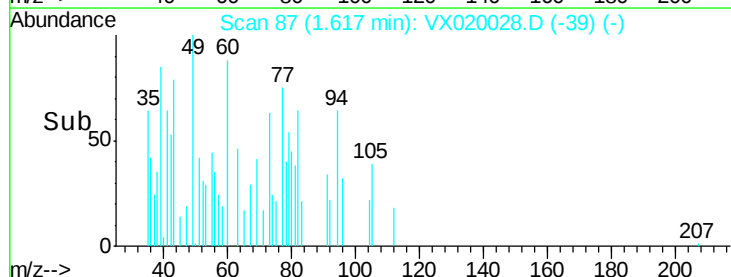
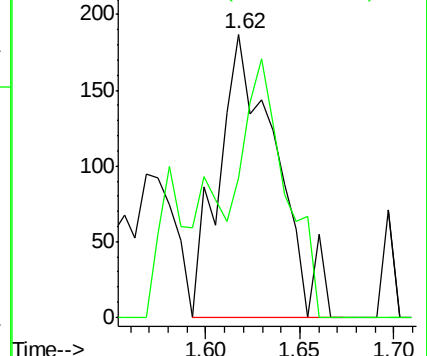
94 100

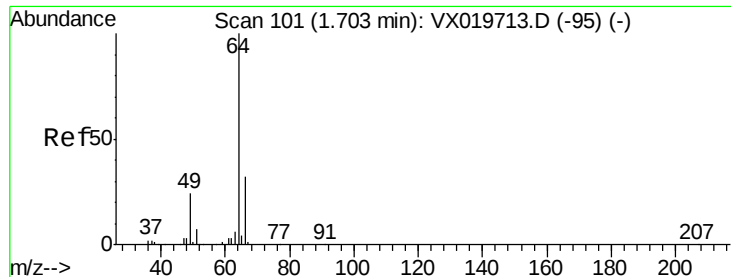
96 49.2 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.415 ug/l

RT: 1.63 min Scan# 89

Delta R.T. -0.07 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

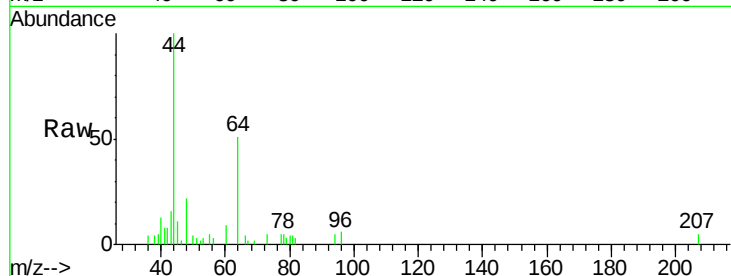
PB133610ZHE#10

Tgt Ion: 64 Resp: 887

Ion Ratio Lower Upper

64 100

66 5.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

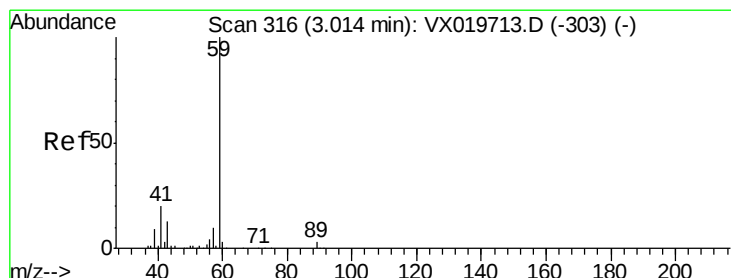
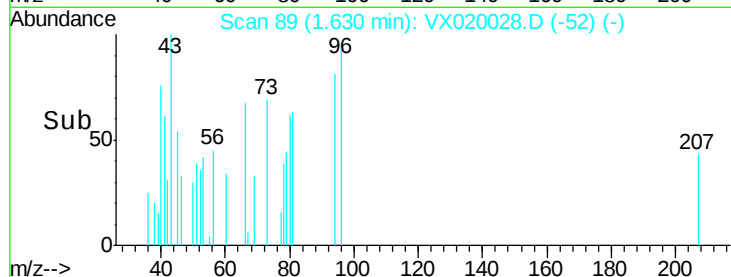
1.63

1000

500

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX020028.D

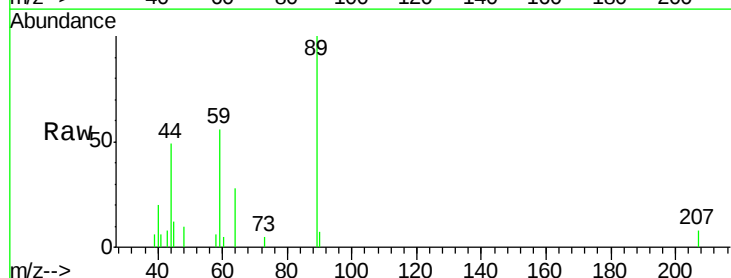
Acq: 15 Dec 2020 21:37

Tgt Ion: 59 Resp: 1412

Ion Ratio Lower Upper

59 100

57 0.0 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

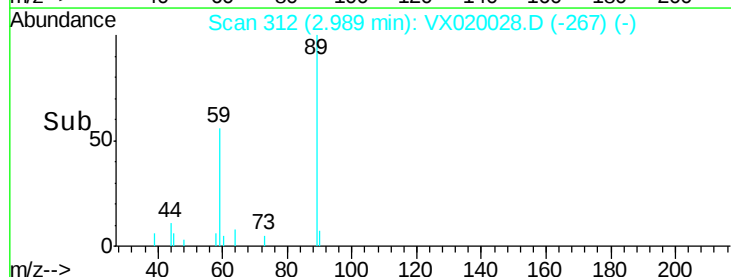
600

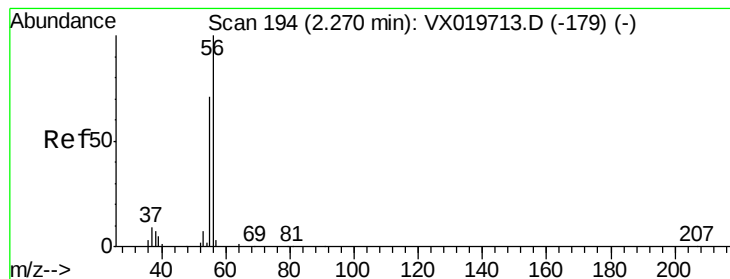
400

200

0

Time-->





#13

Acrolein

Concen: 0.491 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

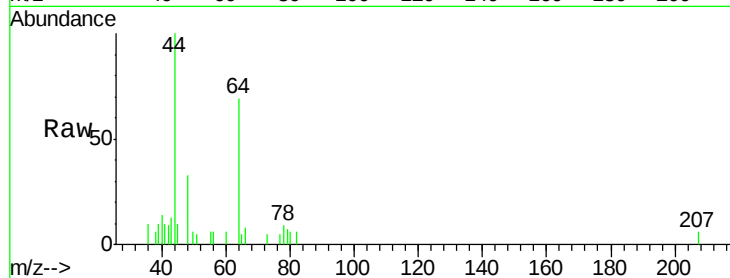
PB133610ZHE#10

Tgt Ion: 56 Resp: 223

Ion Ratio Lower Upper

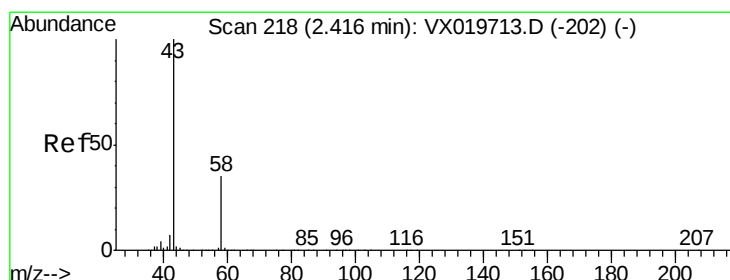
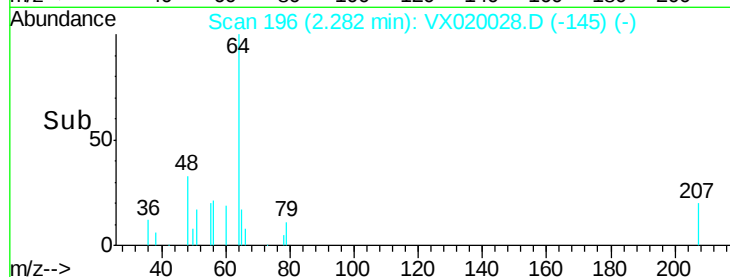
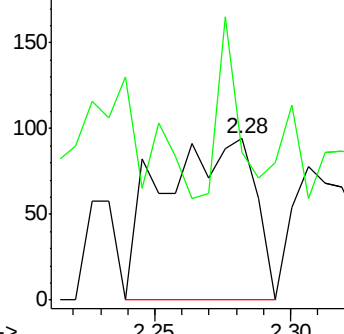
56 100

55 35.0 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: 8.428 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX020028.D

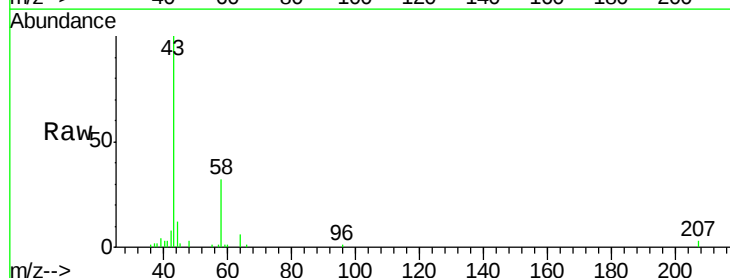
Acq: 15 Dec 2020 21:37

Tgt Ion: 43 Resp: 13047

Ion Ratio Lower Upper

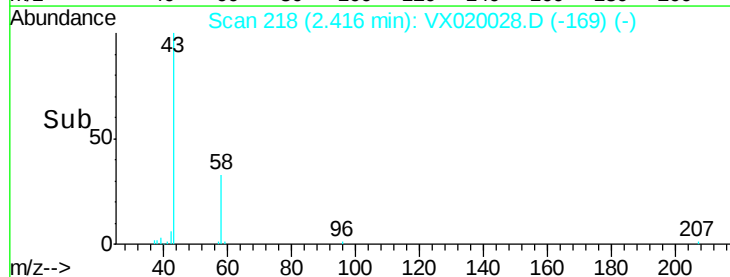
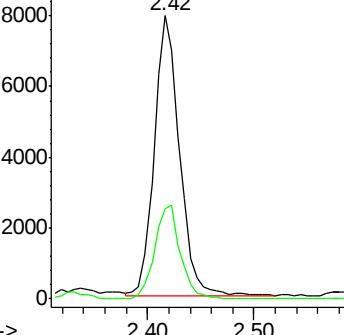
43 100

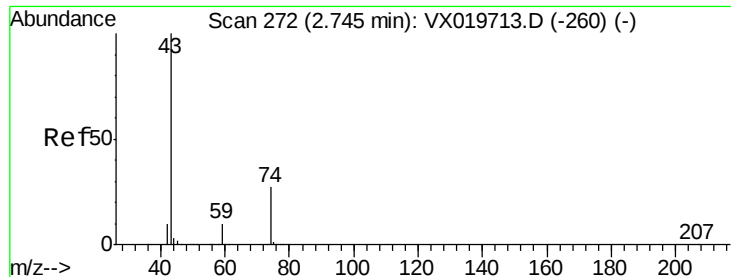
58 32.4 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

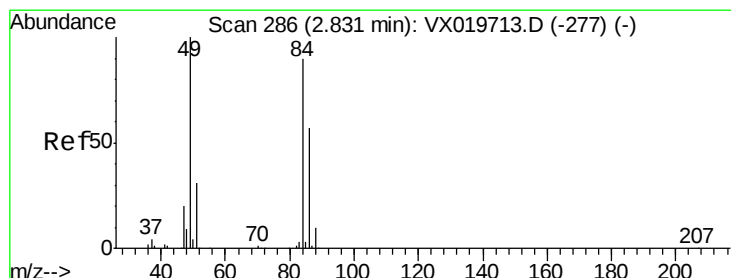
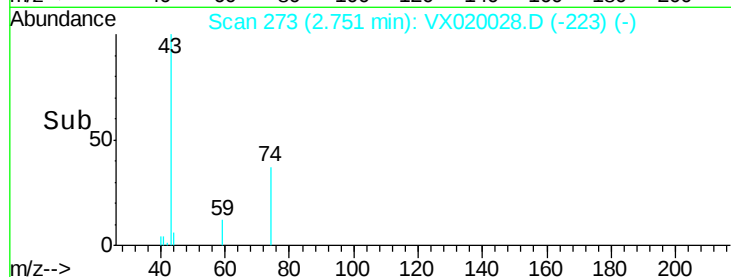
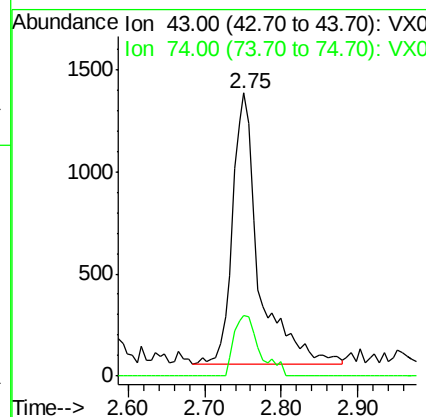
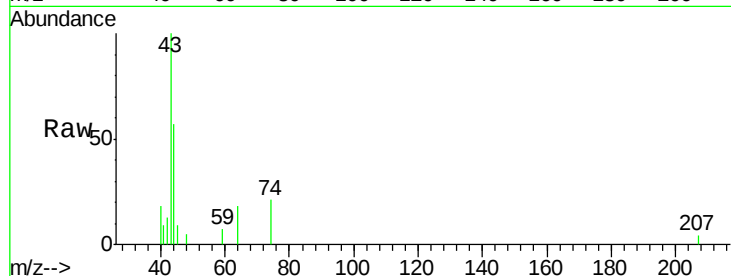




#18
Methyl Acetate
Concen: 0.833 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX020028.D
Acq: 15 Dec 2020 21:37

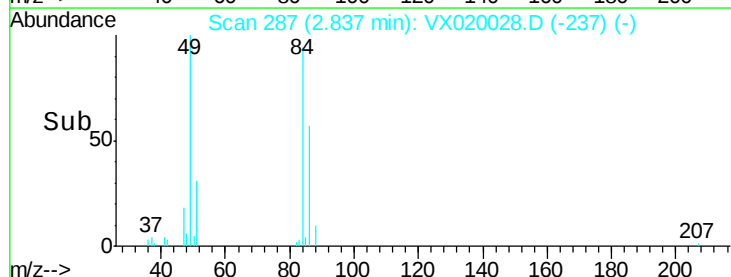
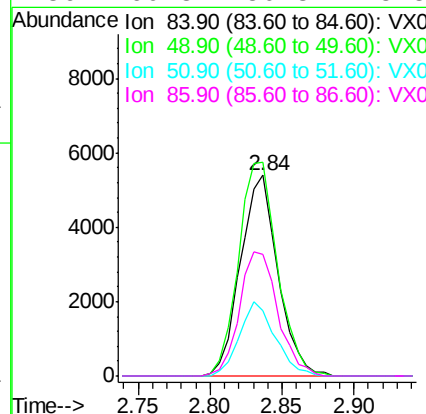
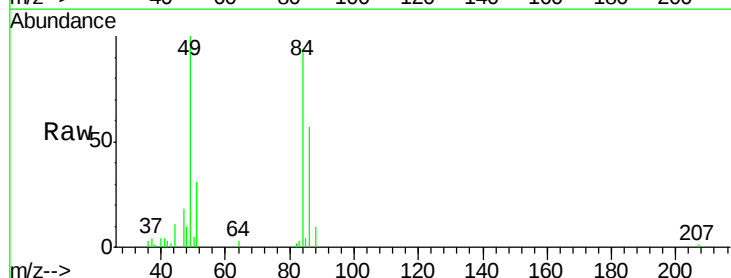
Instrument :
MSVOA_X
ClientSampleId :
PB133610ZHE#10

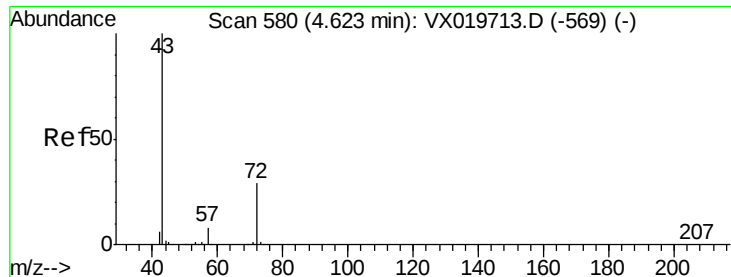
Tgt Ion: 43 Resp: 3156
Ion Ratio Lower Upper
43 100
74 21.7 21.9 32.9#



#20
Methylene Chloride
Concen: 1.374 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX020028.D
Acq: 15 Dec 2020 21:37

Tgt Ion: 84 Resp: 9744
Ion Ratio Lower Upper
84 100
49 106.3 88.6 132.8
51 32.5 27.0 40.6
86 60.8 50.3 75.5





#25

2-Butanone

Concen: 1.388 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

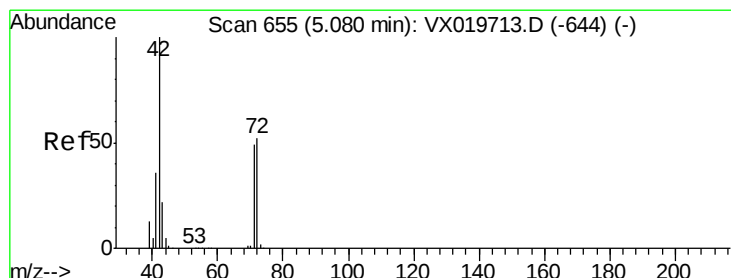
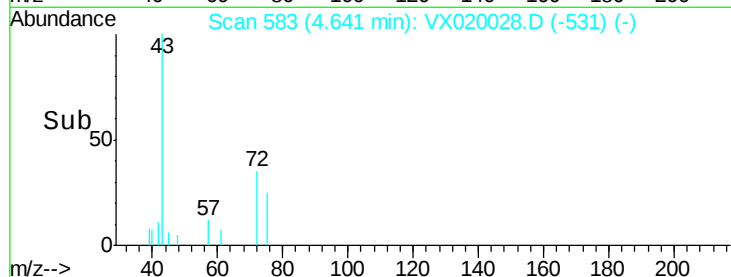
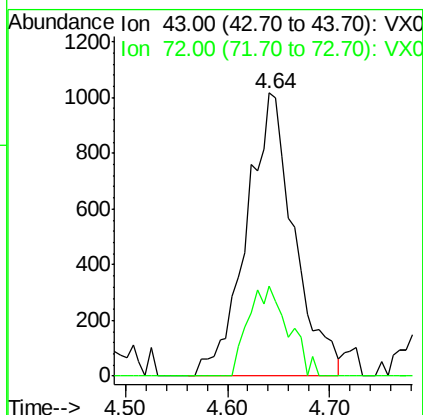
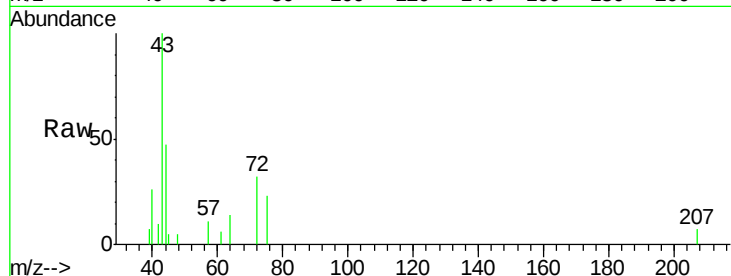
PB133610ZHE#10

Tgt Ion: 43 Resp: 3301

Ion Ratio Lower Upper

43 100

72 31.8 23.7 35.5



#29

Tetrahydrofuran

Concen: 0.289 ug/l

RT: 5.09 min Scan# 656

Delta R.T. 0.01 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

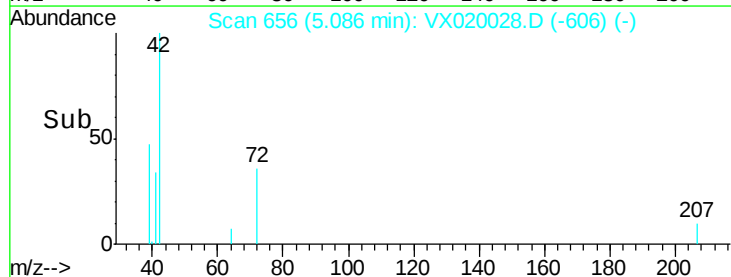
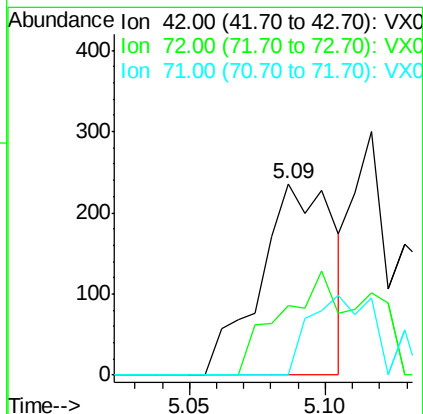
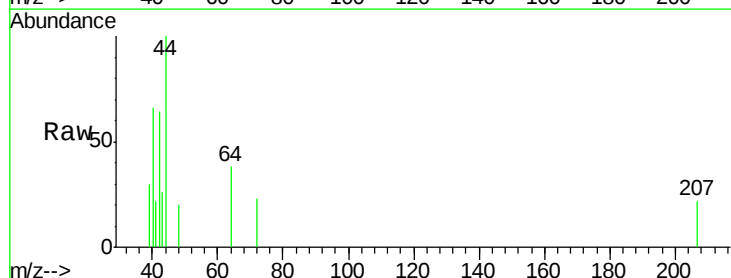
Tgt Ion: 42 Resp: 443

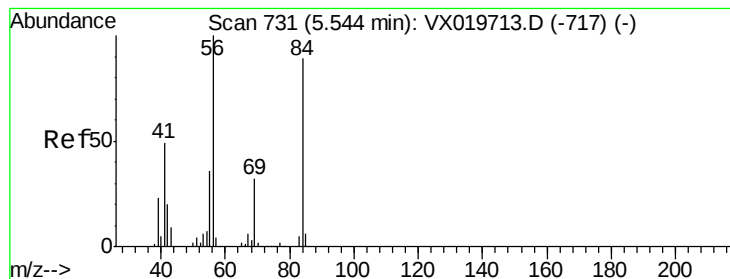
Ion Ratio Lower Upper

42 100

72 63.7 41.7 62.5#

71 39.1 38.4 57.6





#31

Cyclohexane

Concen: 1.184 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#10

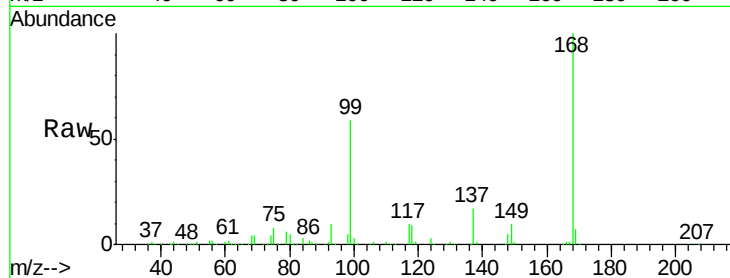
Tgt Ion: 56 Resp: 6068

Ion Ratio Lower Upper

56 100

69 189.1 25.3 37.9#

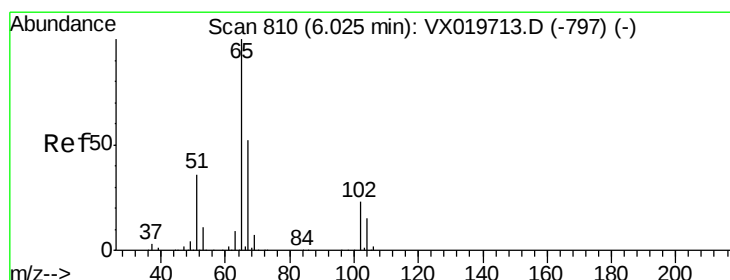
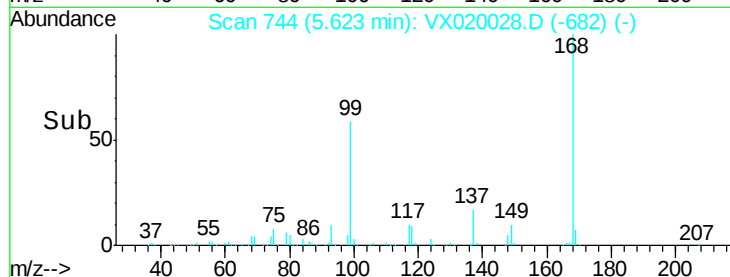
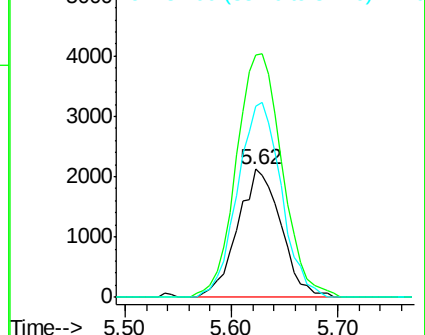
84 148.9 71.4 107.0#



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: 48.996 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.00 min

Lab File: VX020028.D

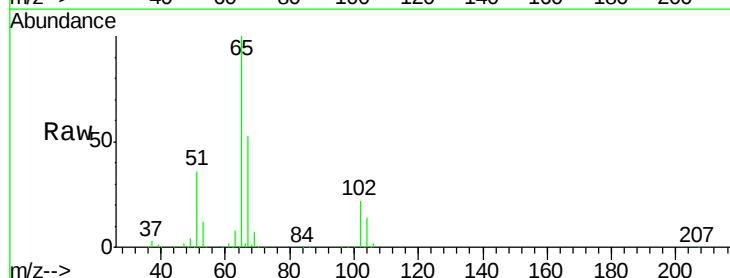
Acq: 15 Dec 2020 21:37

Tgt Ion: 65 Resp: 201799

Ion Ratio Lower Upper

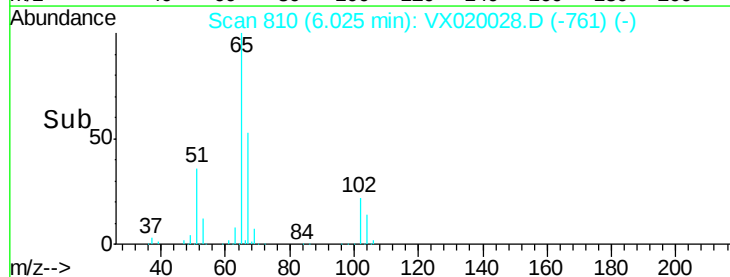
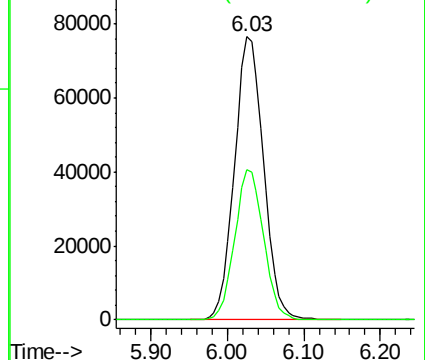
65 100

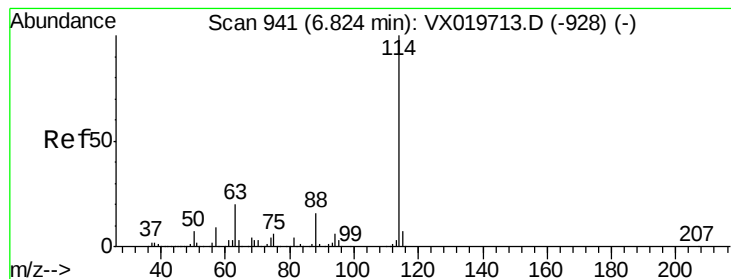
67 52.7 0.0 105.4



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. 0.01 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#10

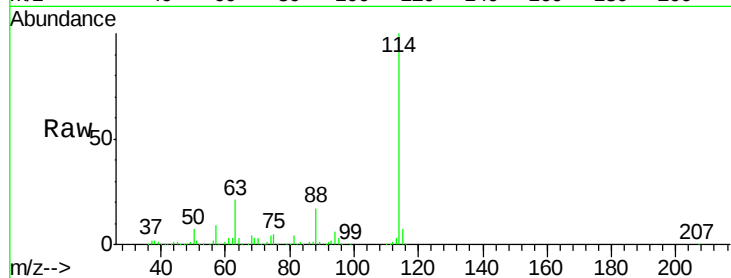
Tgt Ion:114 Resp: 519644

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

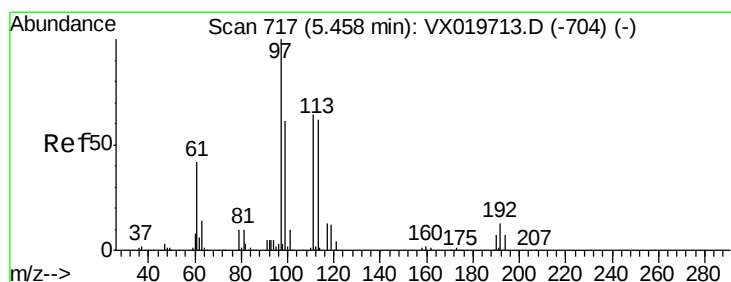
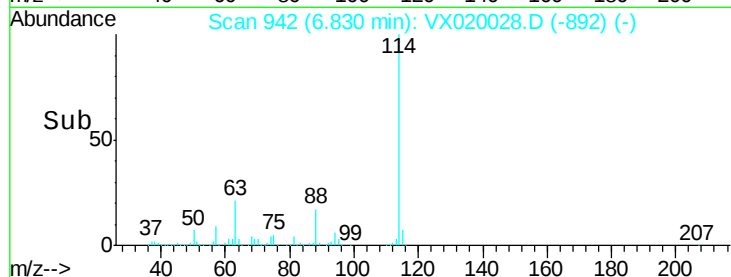
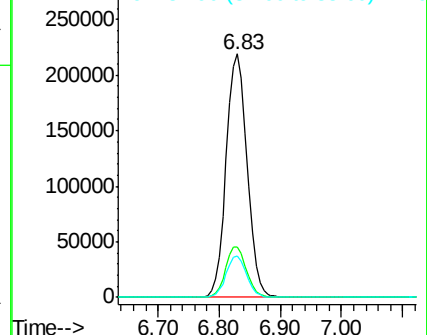
88 16.8 0.0 32.8



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: 48.879 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

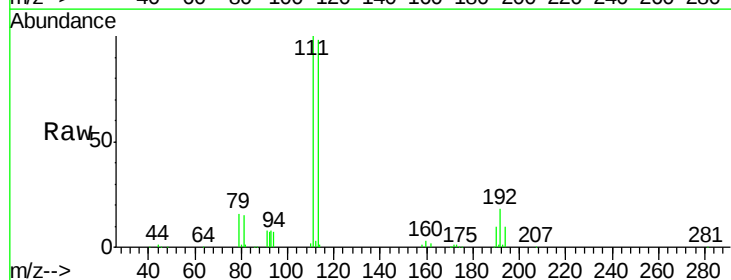
Tgt Ion:113 Resp: 164153

Ion Ratio Lower Upper

113 100

111 102.6 81.9 122.9

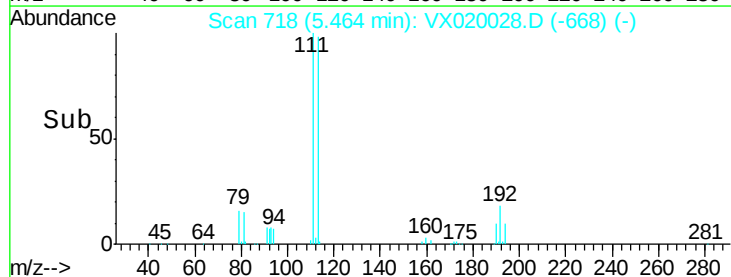
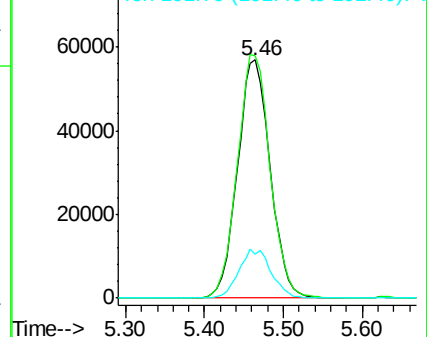
192 20.3 16.7 25.1

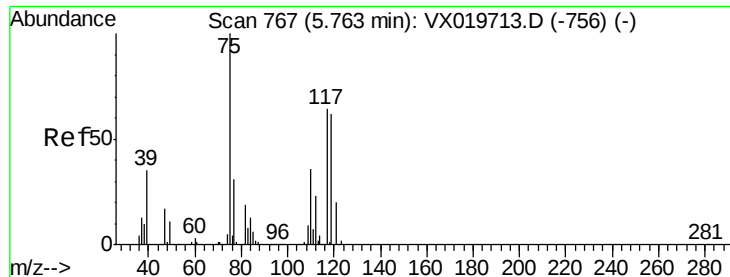


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

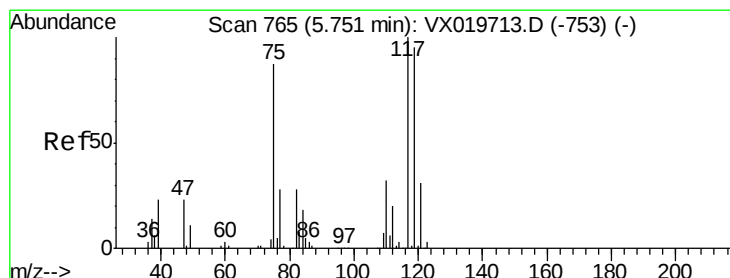
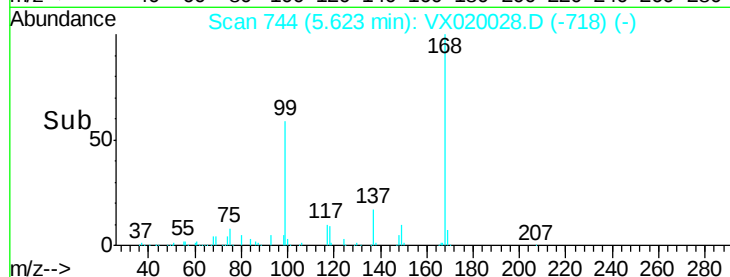
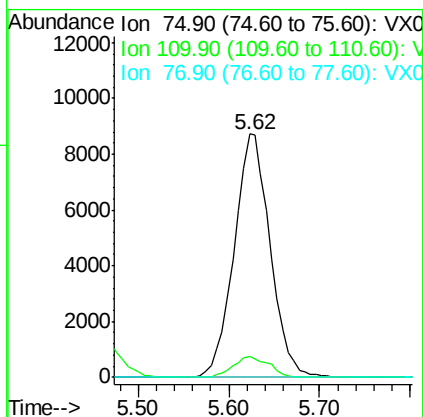
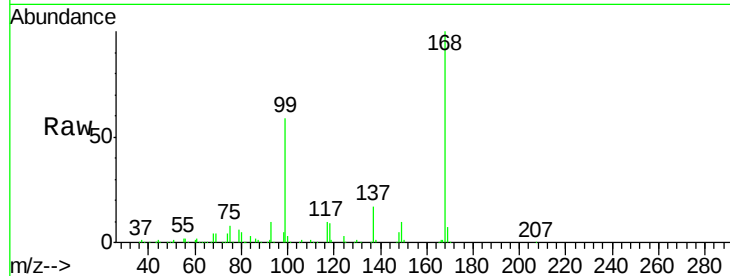




#36
 1,1-Dichloropropene
 Concen: 5.108 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX020028.D
 Acq: 15 Dec 2020 21:37

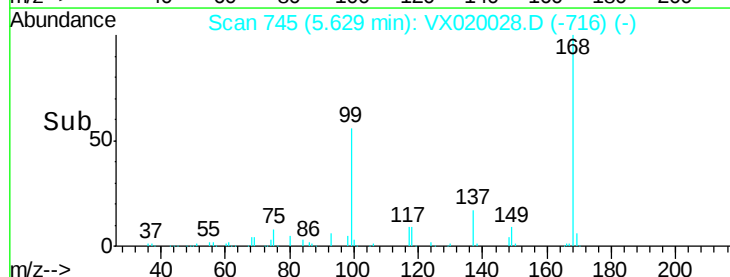
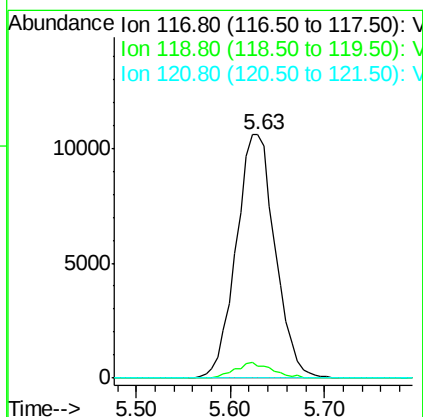
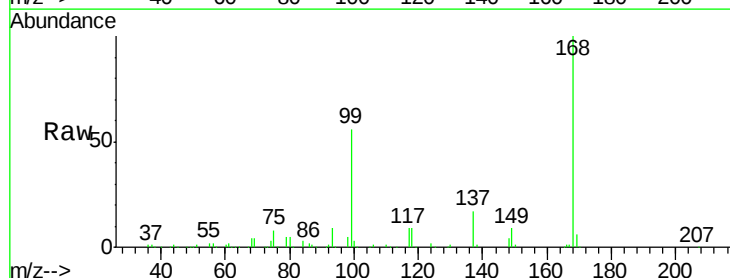
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610ZHE#10

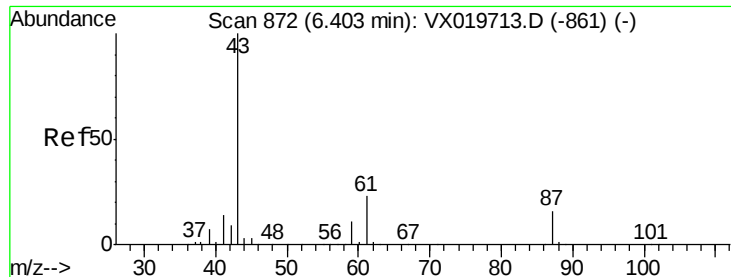
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.1	54.4#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 6.648 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX020028.D
 Acq: 15 Dec 2020 21:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.2	114.2#
121	0.0	24.8	37.2#





#43

Isopropyl Acetate

Concen: 3.092 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#10

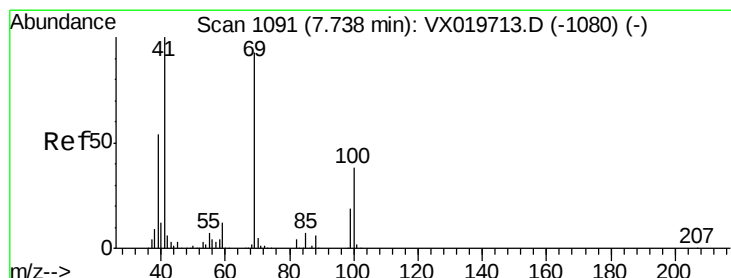
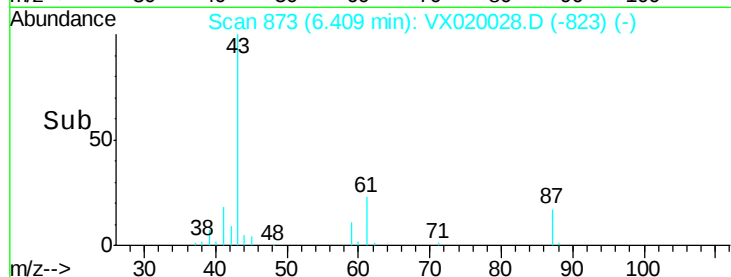
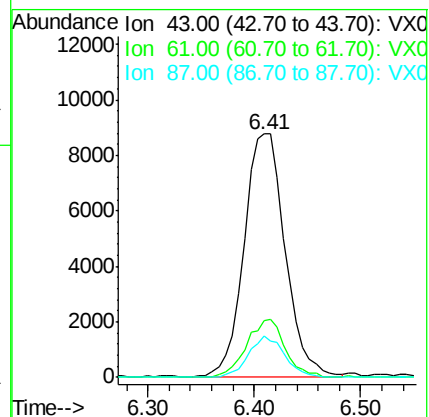
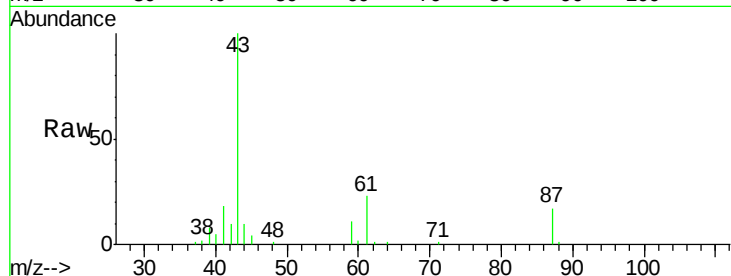
Tgt Ion: 43 Resp: 23835

Ion Ratio Lower Upper

43 100

61 22.1 18.2 27.4

87 14.8 12.5 18.7



#48

Methyl methacrylate

Concen: 1.763 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

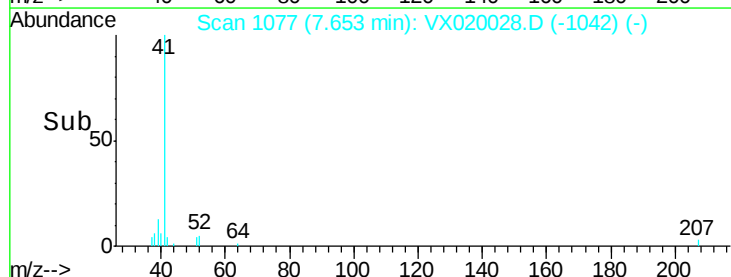
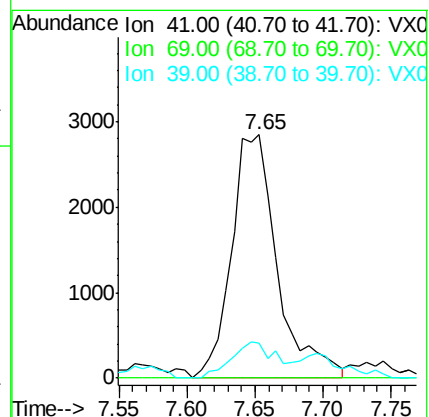
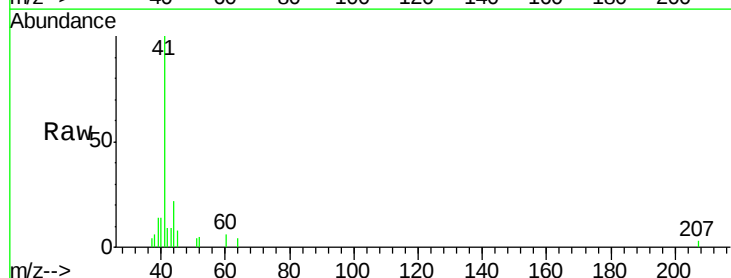
Tgt Ion: 41 Resp: 6682

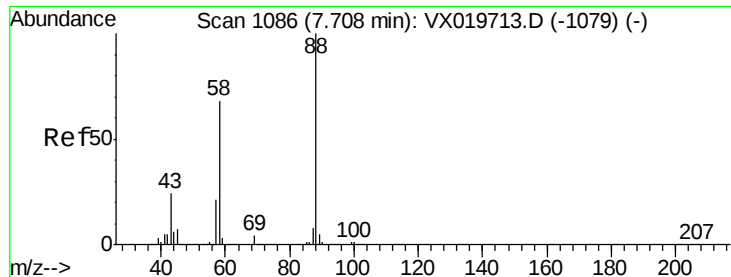
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 3.114 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.14 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#10

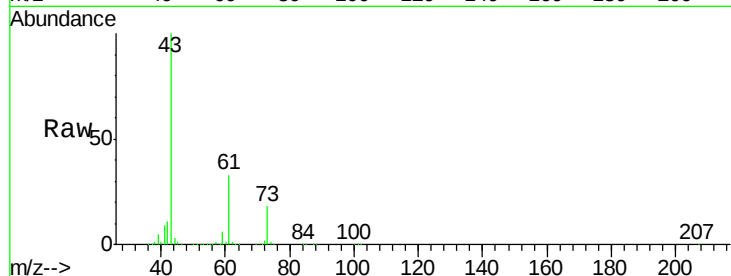
Tgt Ion: 88 Resp: 286

Ion Ratio Lower Upper

88 100

43 479379.4 23.2 34.8#

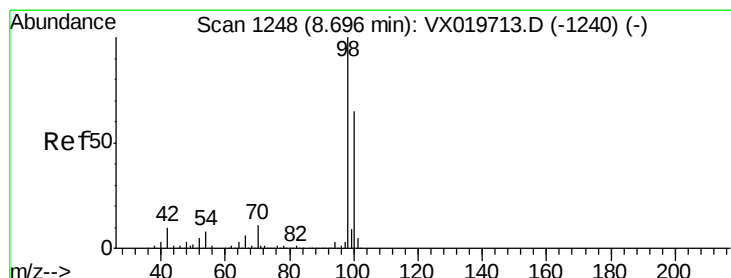
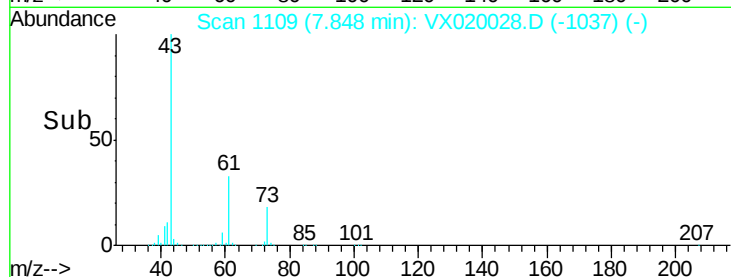
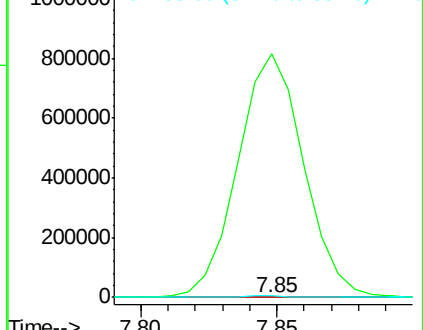
58 2563.3 55.0 82.4#



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: 50.997 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX020028.D

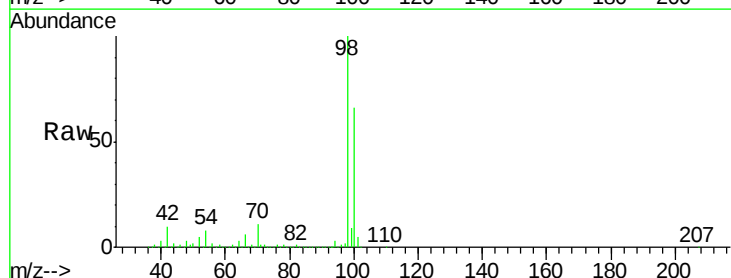
Acq: 15 Dec 2020 21:37

Tgt Ion: 98 Resp: 653851

Ion Ratio Lower Upper

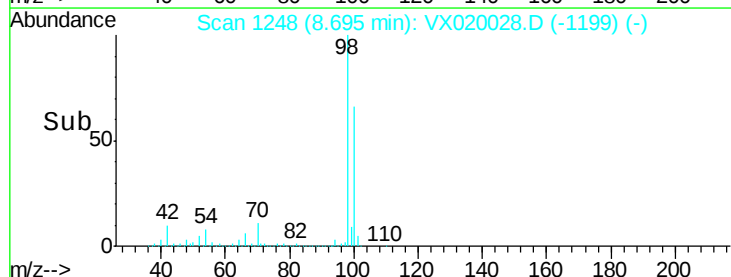
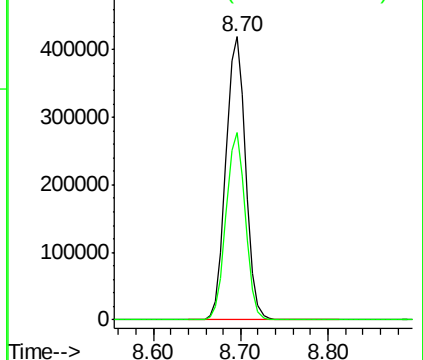
98 100

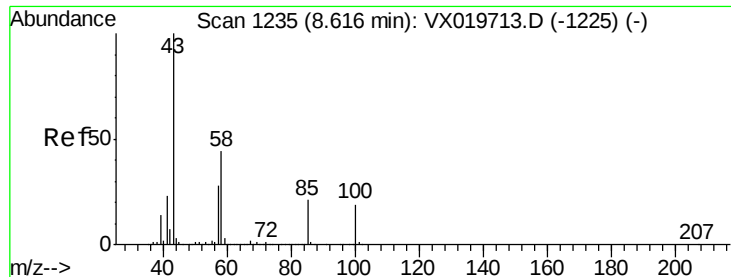
100 65.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

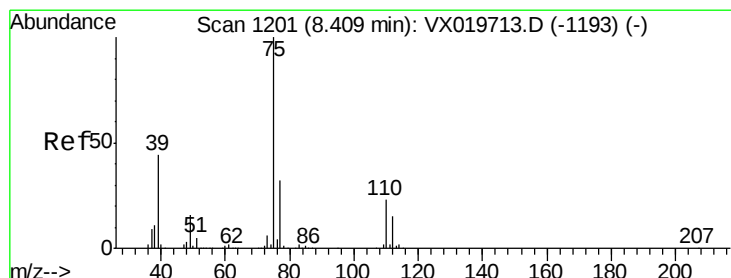
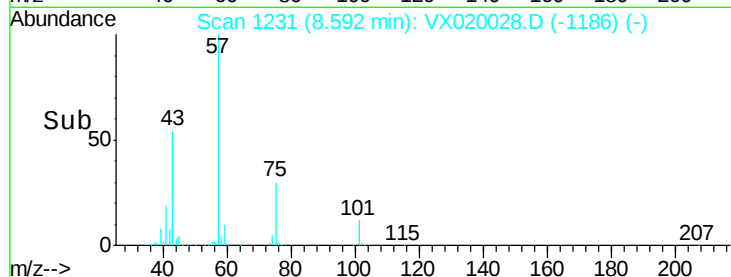
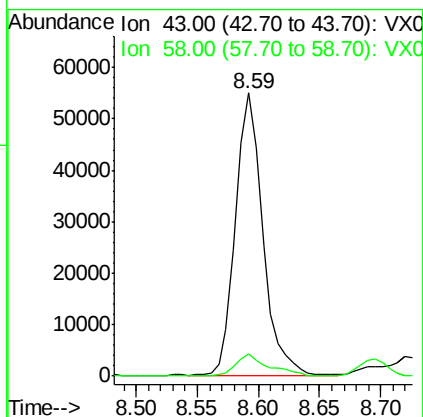
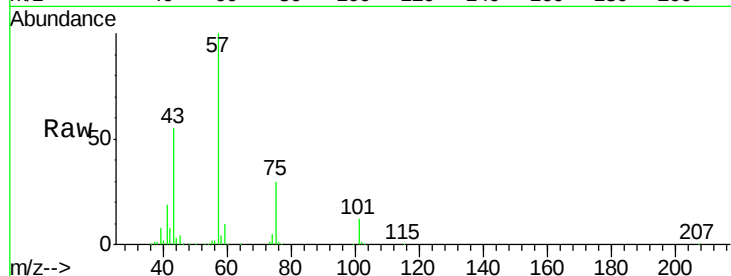




#51
 4-Methyl-2-Pentanone
 Concen: 17.983 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VX020028.D
 Acq: 15 Dec 2020 21:37

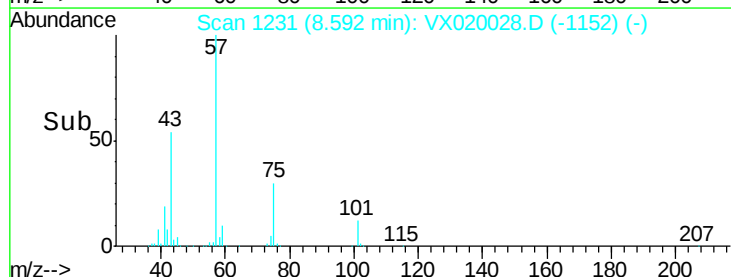
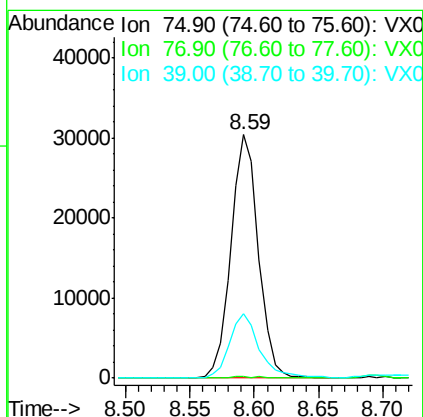
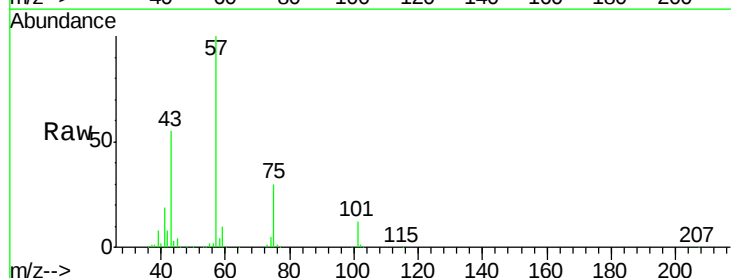
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610ZHE#10

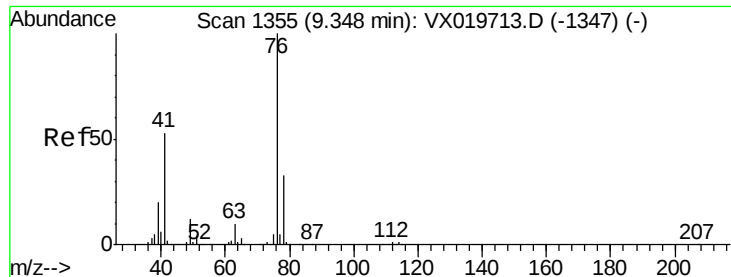
Tgt Ion: 43 Resp: 84629
 Ion Ratio Lower Upper
 43 100
 58 9.4 35.4 53.0#



#54
 cis-1,3-Dichloropropene
 Concen: 7.800 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX020028.D
 Acq: 15 Dec 2020 21:37

Tgt Ion: 75 Resp: 45174
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.7 38.5#
 39 26.5 35.1 52.7#

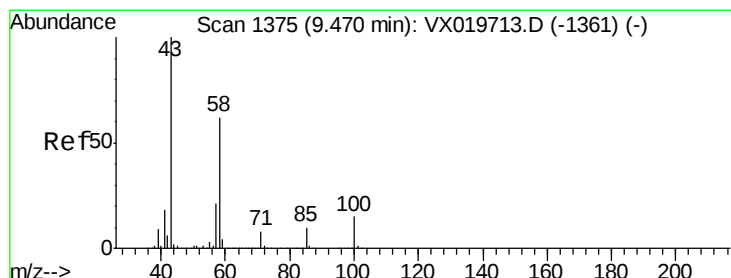
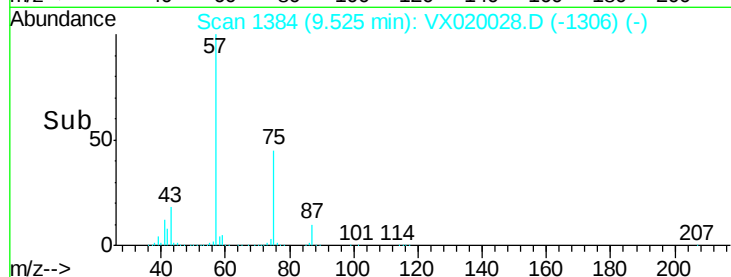
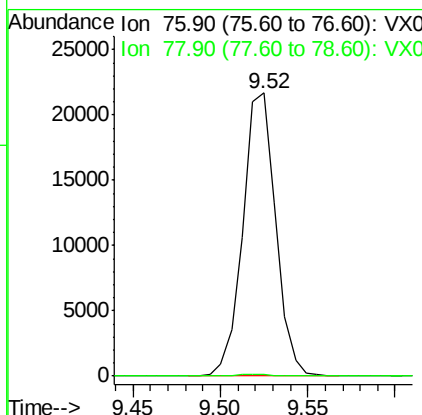
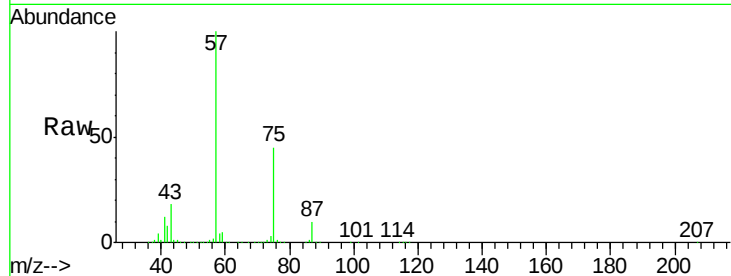




#57
 1,3-Dichloropropane
 Concen: 4.588 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX020028.D
 Acq: 15 Dec 2020 21:37

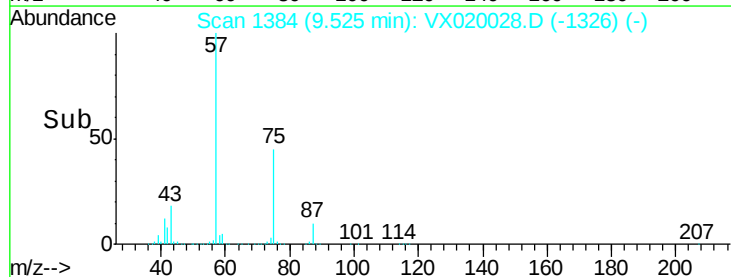
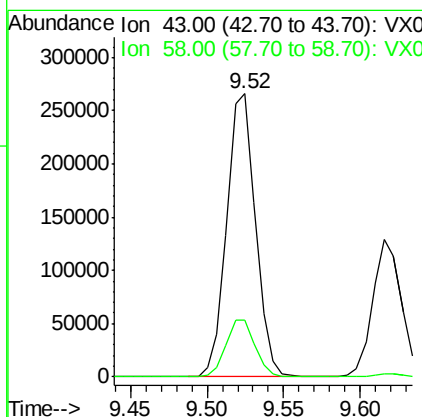
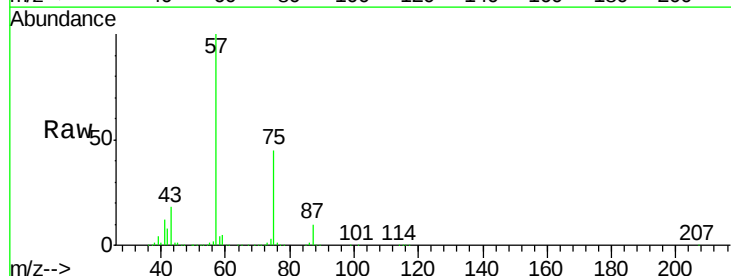
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610ZHE#10

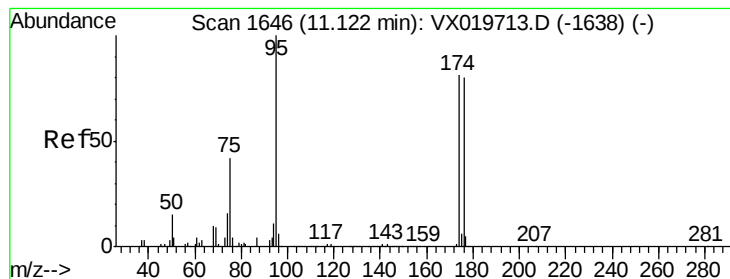
Tgt Ion: 76 Resp: 28321
 Ion Ratio Lower Upper
 76 100
 78 0.5 26.2 39.2#



#59
 2-Hexanone
 Concen: 94.749 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX020028.D
 Acq: 15 Dec 2020 21:37

Tgt Ion: 43 Resp: 345622
 Ion Ratio Lower Upper
 43 100
 58 20.6 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 46.775 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#10

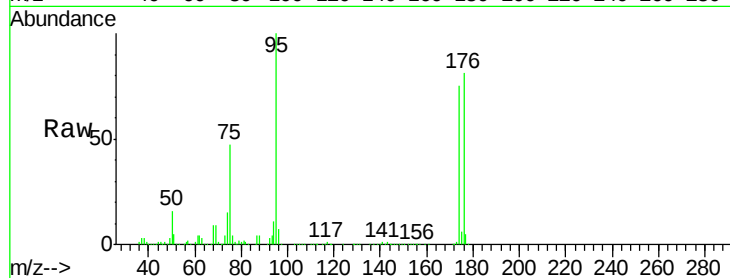
Tgt Ion: 95 Resp: 228264

Ion Ratio Lower Upper

95 100

174 76.1 0.0 154.6

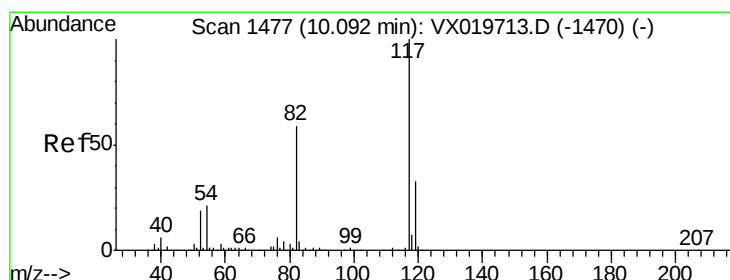
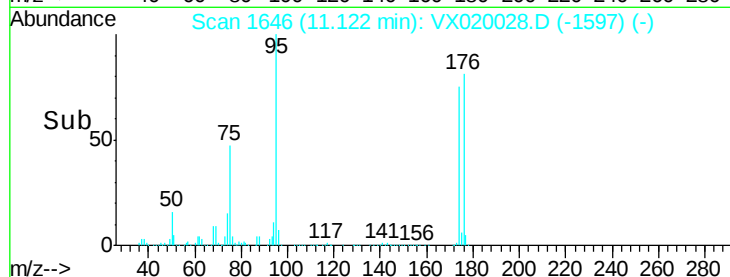
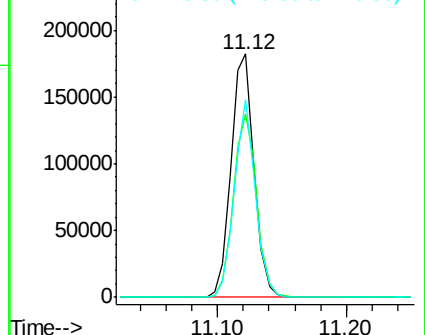
176 74.7 0.0 155.8



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: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

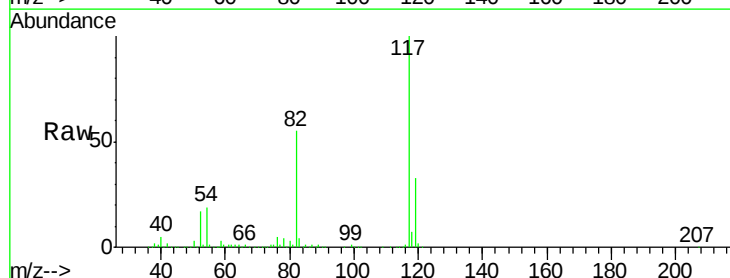
Tgt Ion: 117 Resp: 494654

Ion Ratio Lower Upper

117 100

82 55.3 47.4 71.2

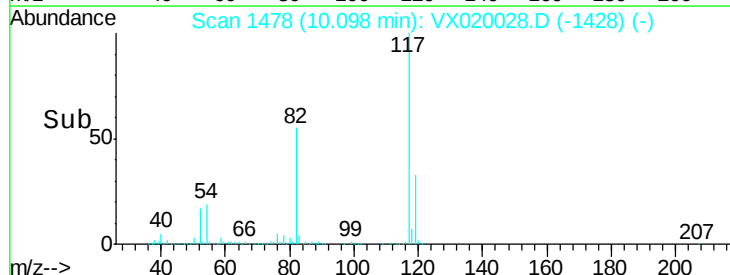
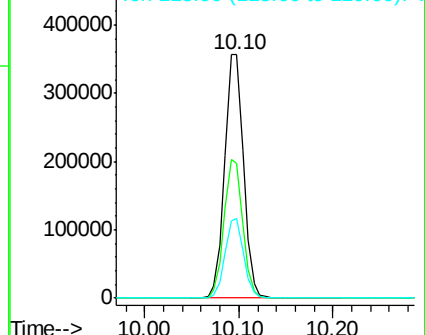
119 32.6 26.6 39.8

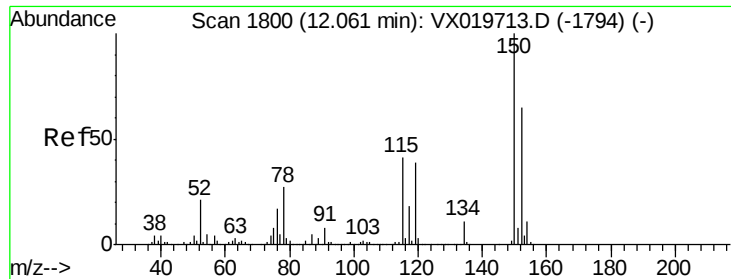


Abundance Ion 116.90 (116.60 to 117.60): VX0

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: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

PB133610ZHE#10

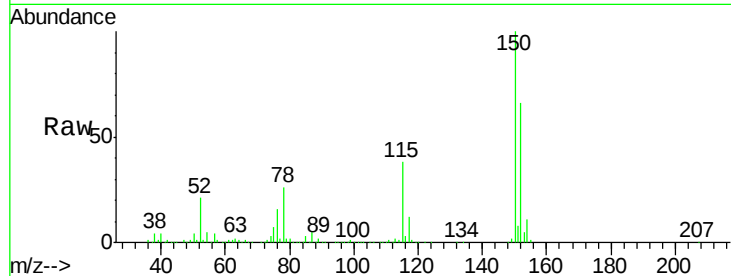
Tgt Ion:152 Resp: 212629

Ion Ratio Lower Upper

152 100

115 60.1 41.1 123.3

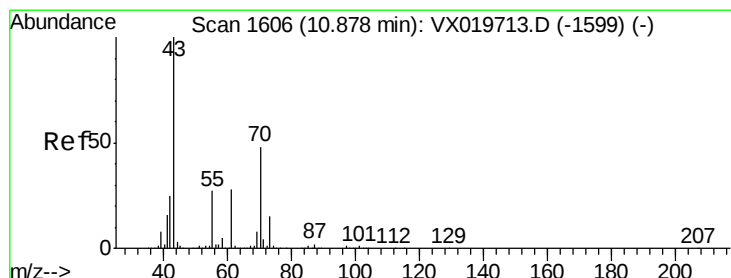
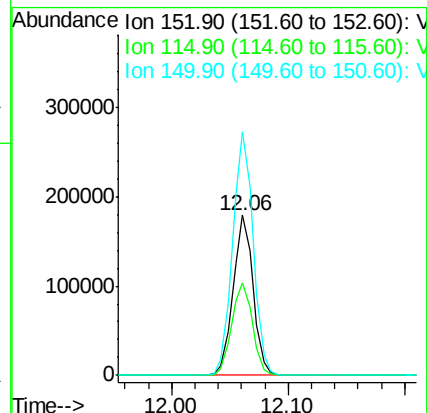
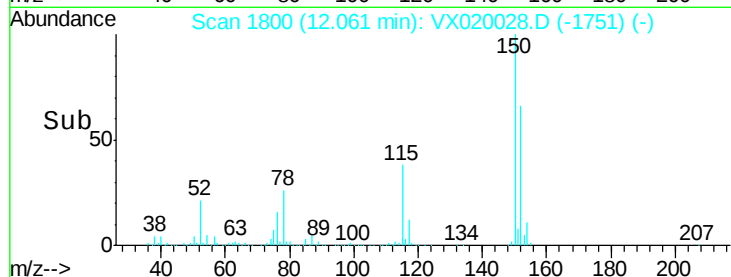
150 156.3 0.0 349.0



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



#74

N-ethyl acetate

Concen: 2.809 ug/l

RT: 10.68 min Scan# 1573

Delta R.T. -0.20 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

Tgt Ion: 43 Resp: 16355

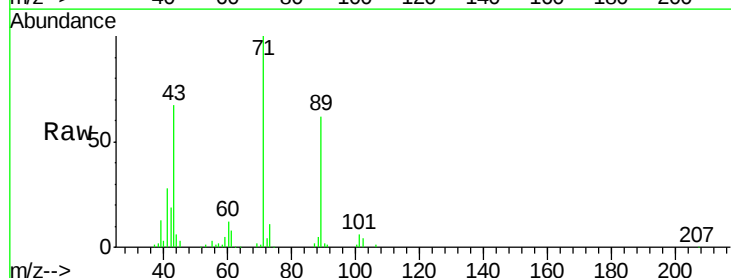
Ion Ratio Lower Upper

43 100

70 2.2 39.0 58.6#

55 4.9 21.5 32.3#

61 11.8 22.1 33.1#

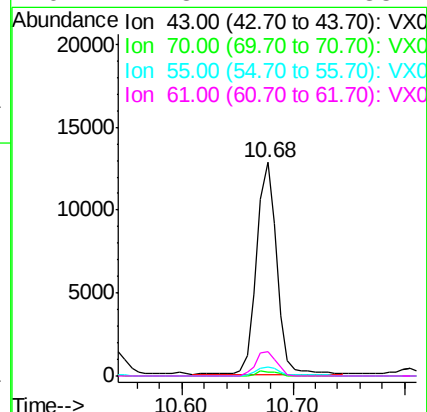
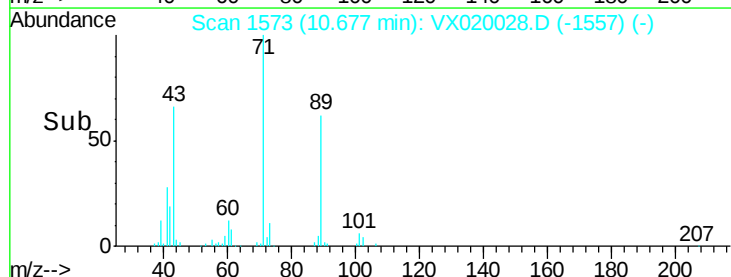


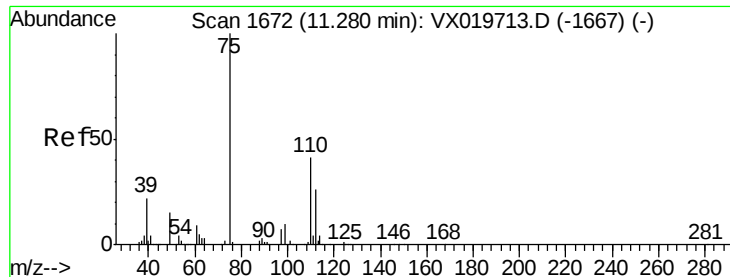
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.155 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX020028.D

Acq: 15 Dec 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

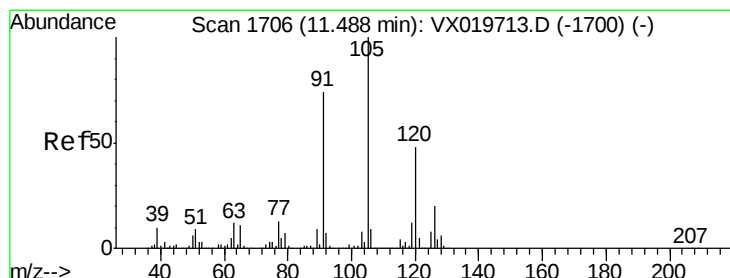
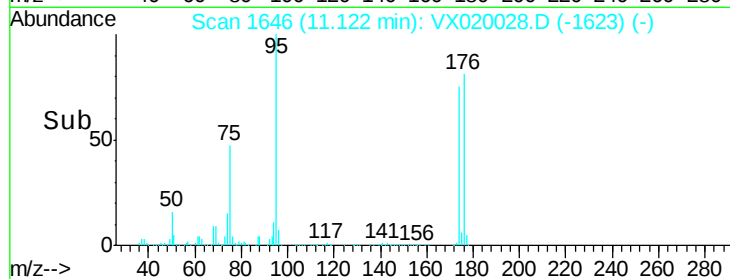
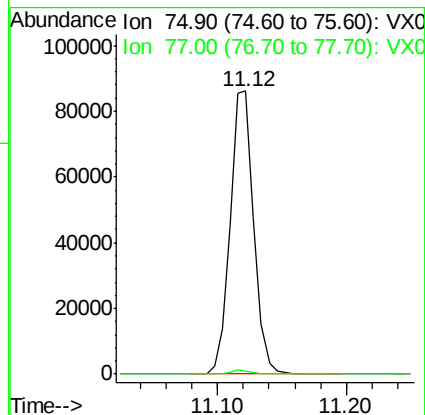
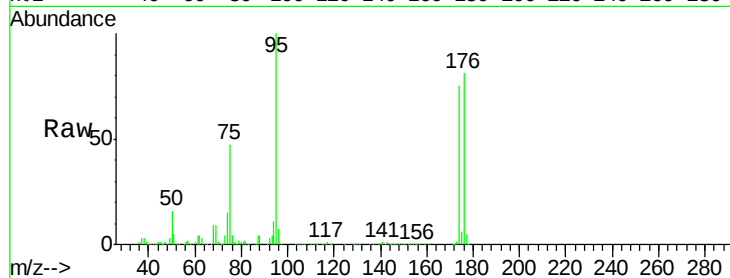
PB133610ZHE#10

Tgt Ion: 75 Resp: 110423

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.453 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX020028.D

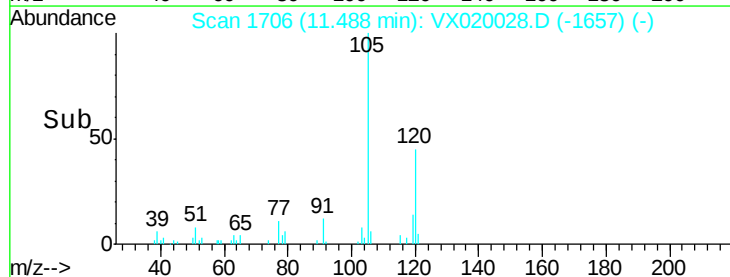
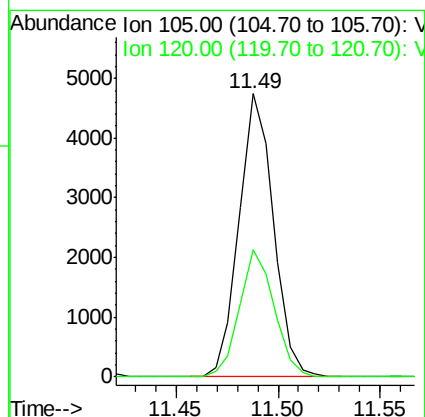
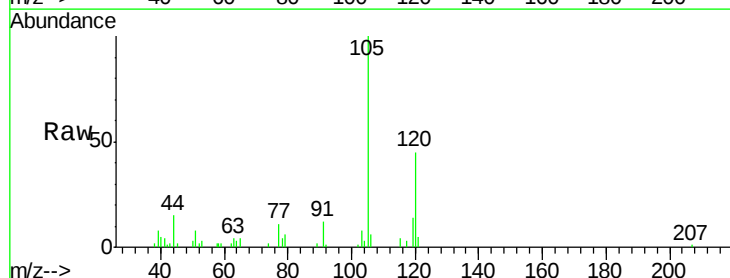
Acq: 15 Dec 2020 21:37

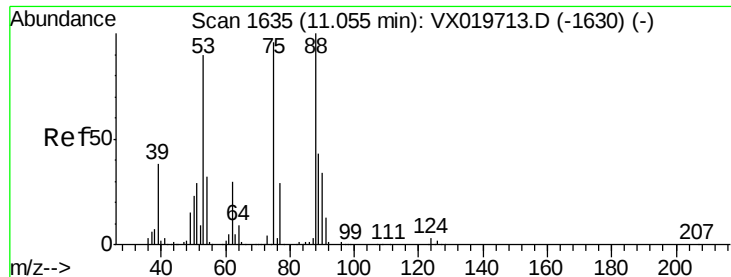
Tgt Ion: 105 Resp: 5552

Ion Ratio Lower Upper

105 100

120 45.1 23.8 71.5





#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.936 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX020028.D
 Acq: 15 Dec 2020 21:37

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610ZHE#10

Tgt Ion: 75 Resp: 110423
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.5 111.7#
 89 0.0 37.9 56.9#

