

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121220\
 Data File : VX019935.D
 Acq On : 12 Dec 2020 16:24
 Operator : JC/MD
 Sample : PB133501ZHE#16
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133501ZHE#16

Quant Time: Dec 14 08:17:58 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	304949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	509599	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	483943	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	210417	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	198492	49.52	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.04%	
35) Dibromofluoromethane		5.46	113	160044	48.59	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.18%	
50) Toluene-d8		8.70	98	631583	50.23	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.46%	
62) 4-Bromofluorobenzene		11.12	95	223019	46.60	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.20%	

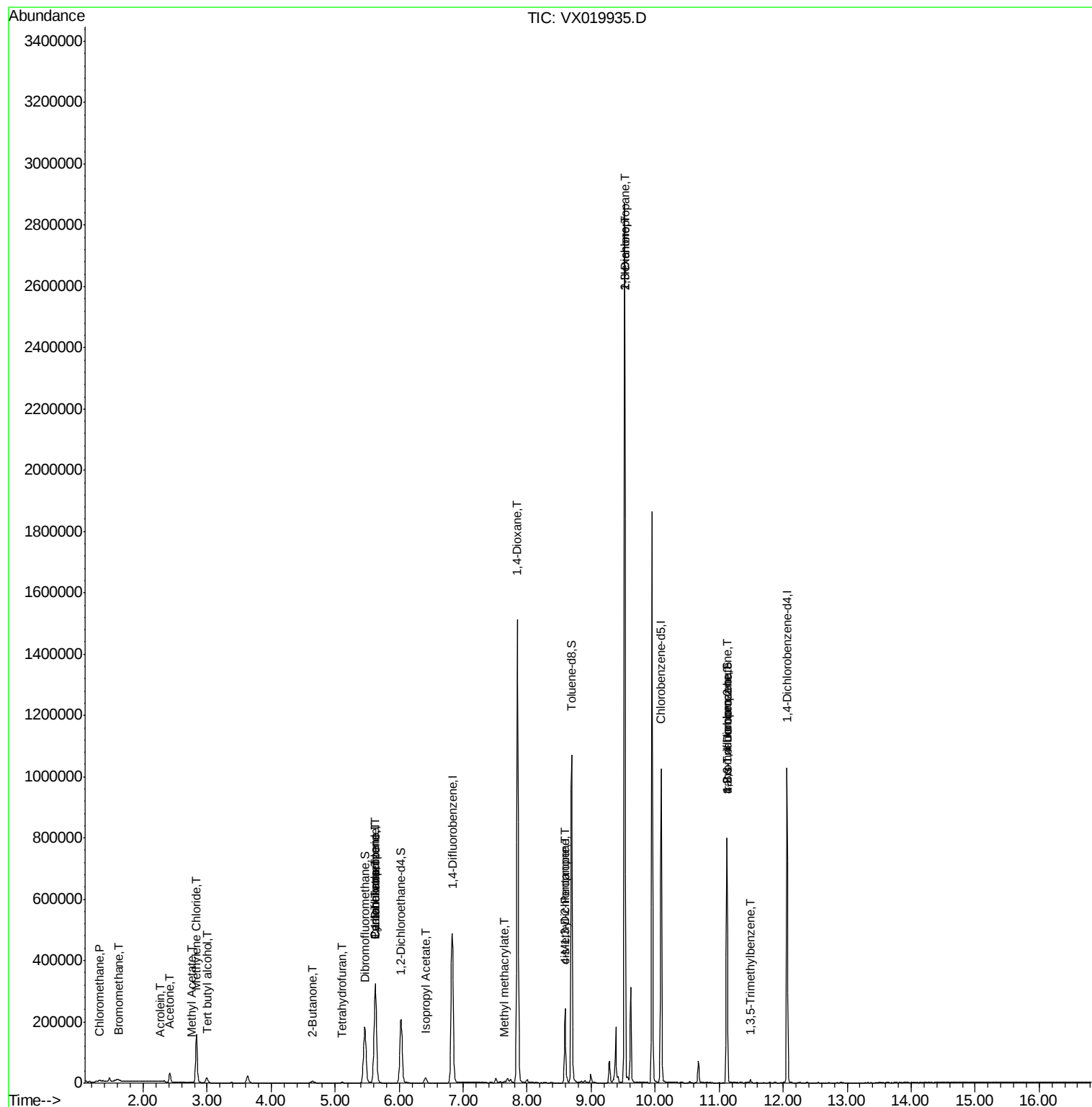
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	681	0.207	ug/l #	88
5) Bromomethane	1.63	94	942	0.819	ug/l	86
11) Tert butyl alcohol	3.00	59	10528	10.271	ug/l #	79
13) Acrolein	2.26	56	325	0.735	ug/l #	37
16) Acetone	2.42	43	31108	20.649	ug/l	99
18) Methyl Acetate	2.75	43	3210	0.871	ug/l	98
20) Methylene Chloride	2.83	84	75755	21.208	ug/l	99
25) 2-Butanone	4.64	43	4449	1.922	ug/l	99
29) Tetrahydrofuran	5.10	42	1096	0.735	ug/l #	85
31) Cyclohexane	5.62	56	5991	1.202	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23780	5.164	ug/l #	48
38) Carbon Tetrachloride	5.63	117	30110	6.677	ug/l #	16
43) Isopropyl Acetate	6.41	43	22466	2.972	ug/l	98
48) Methyl methacrylate	7.65	41	5805	1.561	ug/l #	10
49) 1,4-Dioxane	7.85	88	222	2.465	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	77054	16.696	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	40645	7.156	ug/l #	59
57) 1,3-Dichloropropane	9.52	76	26352	4.353	ug/l #	43
59) 2-Hexanone	9.52	43	317286	88.695	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	107462	22.771	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.49	105	4934	0.407	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	107462	65.826	ug/l #	12

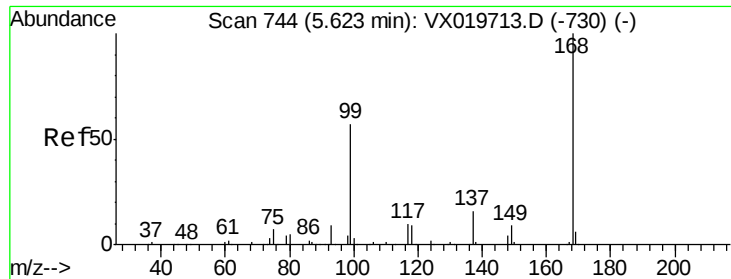
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 14 08:17:58 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: VX019935.D

Acq: 12 Dec 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

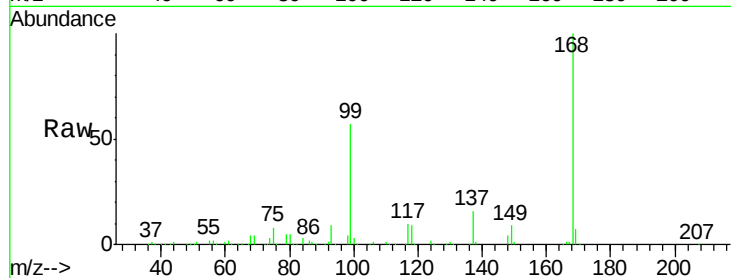
PB133501ZHE#16

Tgt Ion:168 Resp: 304949

Ion Ratio Lower Upper

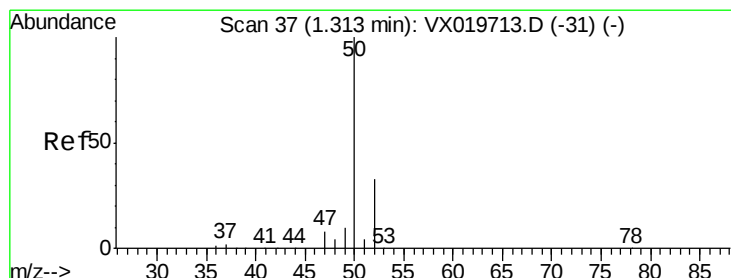
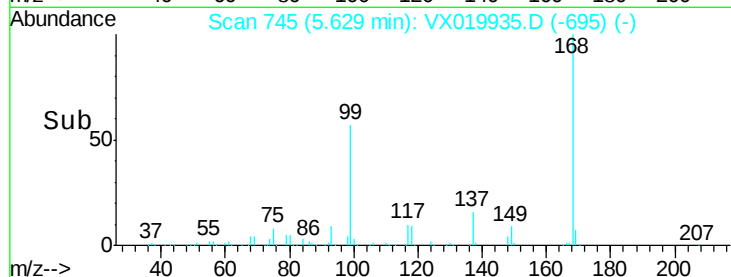
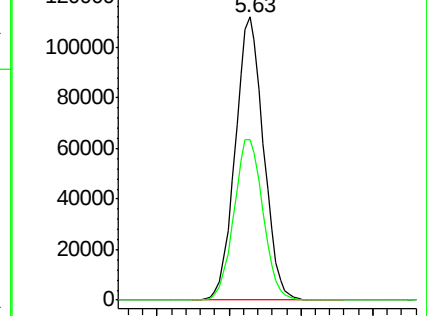
168 100

99 56.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019935.D

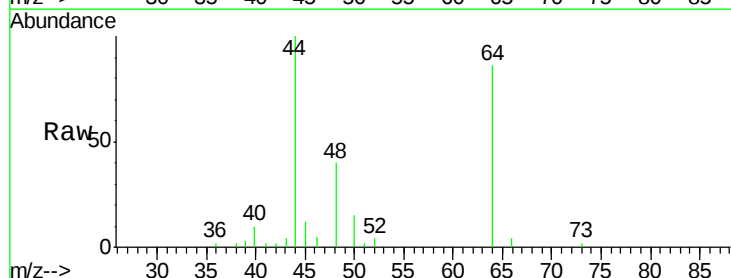
Acq: 12 Dec 2020 16:24

Tgt Ion: 50 Resp: 681

Ion Ratio Lower Upper

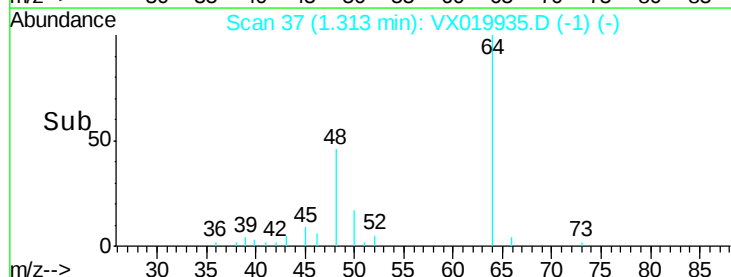
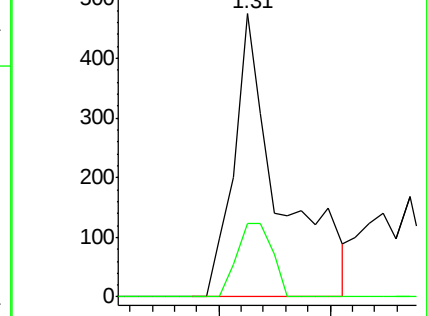
50 100

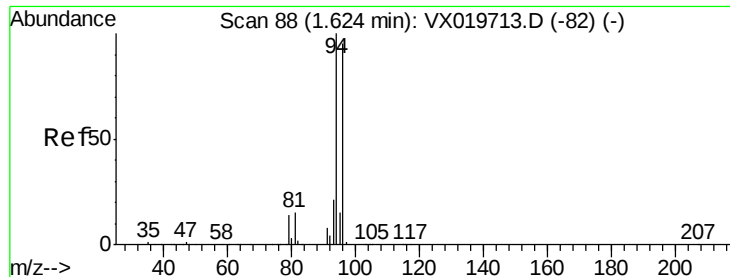
52 26.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.819 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

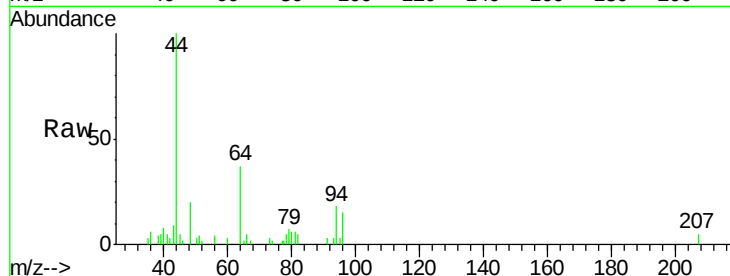
PB133501ZHE#16

Tgt Ion: 94 Resp: 942

Ion Ratio Lower Upper

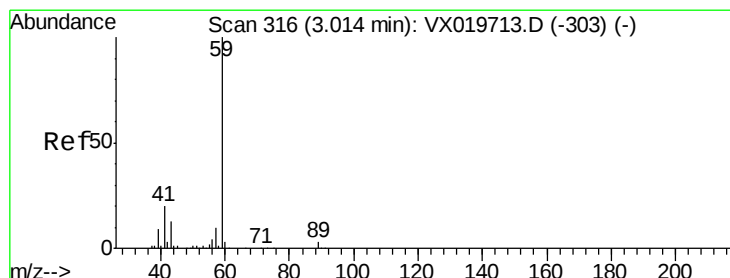
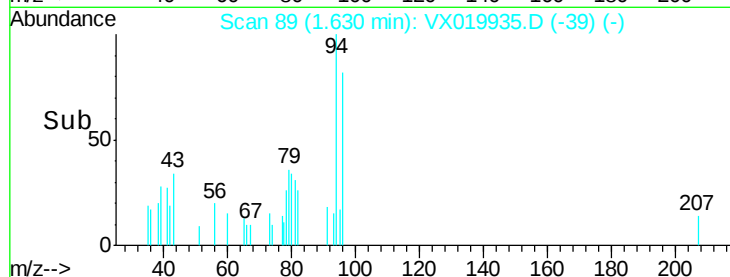
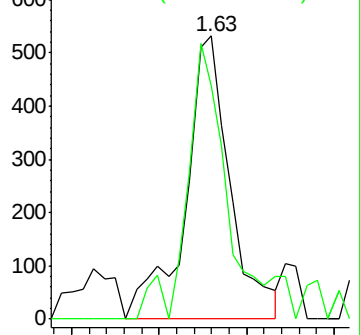
94 100

96 82.3 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 10.271 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019935.D

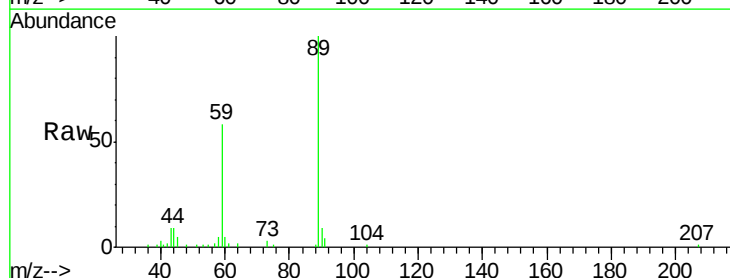
Acq: 12 Dec 2020 16:24

Tgt Ion: 59 Resp: 10528

Ion Ratio Lower Upper

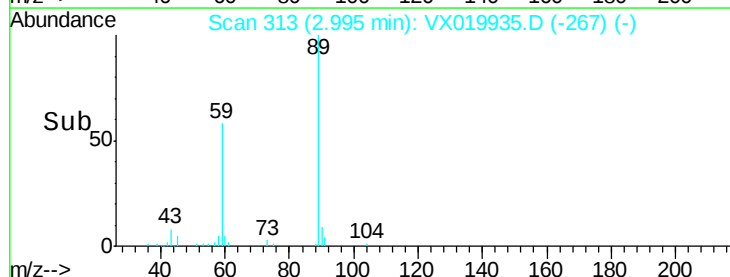
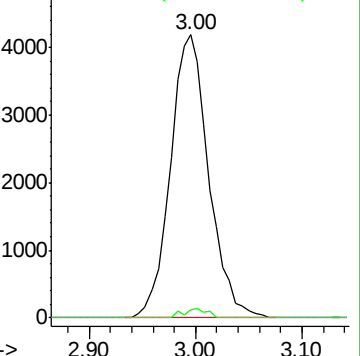
59 100

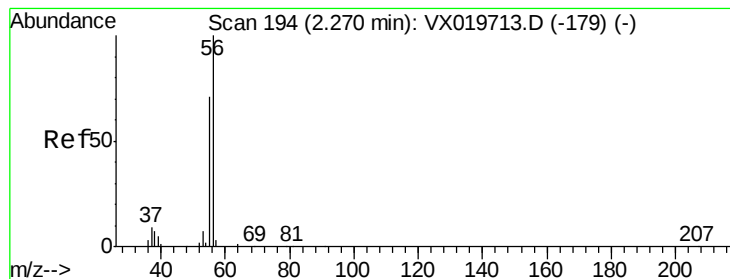
57 2.1 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.735 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

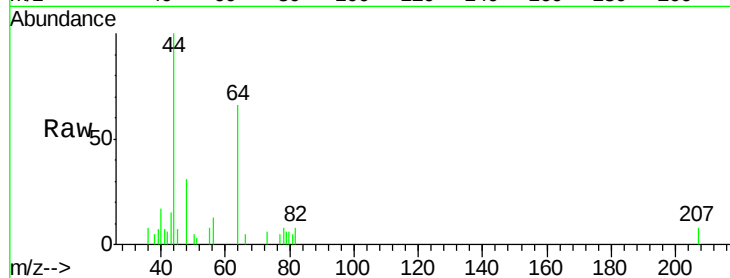
PB133501ZHE#16

Tgt Ion: 56 Resp: 325

Ion Ratio Lower Upper

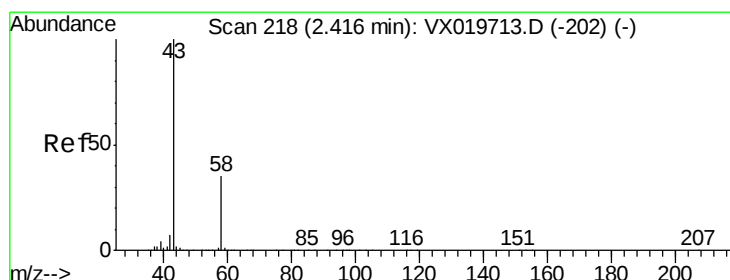
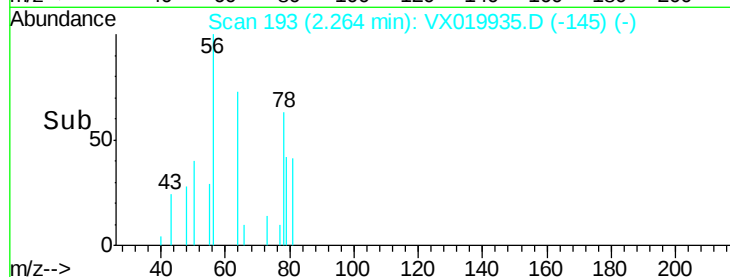
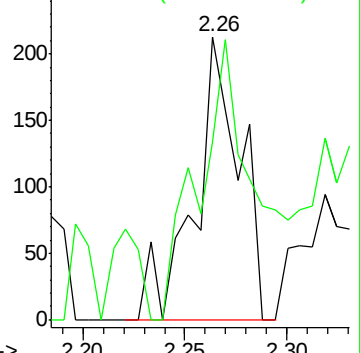
56 100

55 122.8 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: 20.649 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019935.D

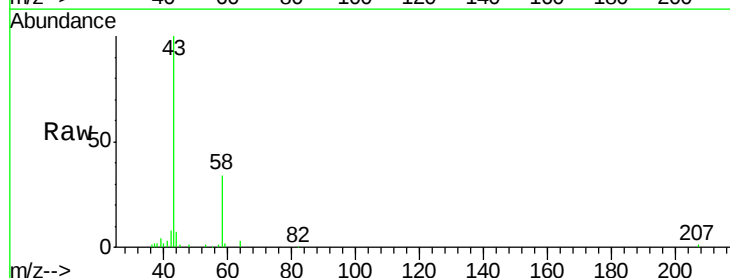
Acq: 12 Dec 2020 16:24

Tgt Ion: 43 Resp: 31108

Ion Ratio Lower Upper

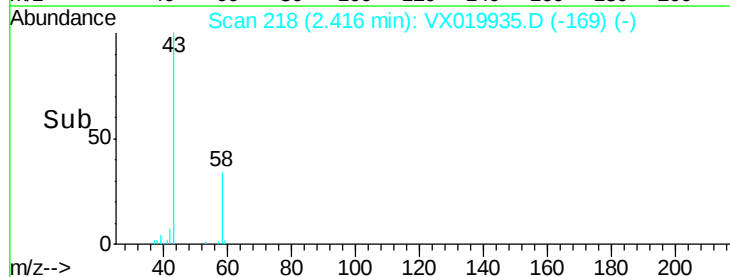
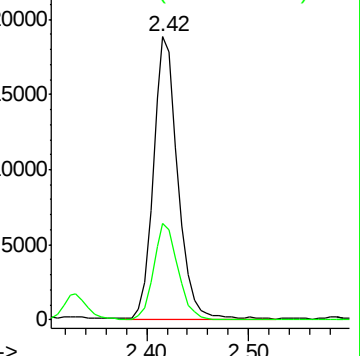
43 100

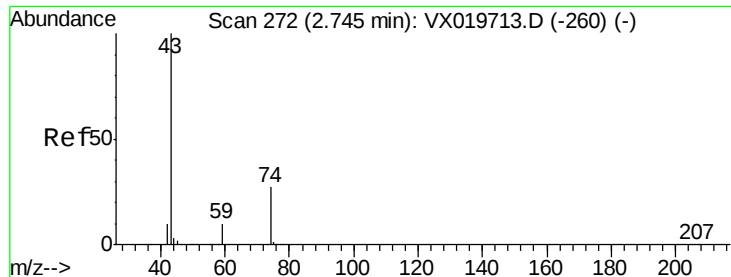
58 34.1 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

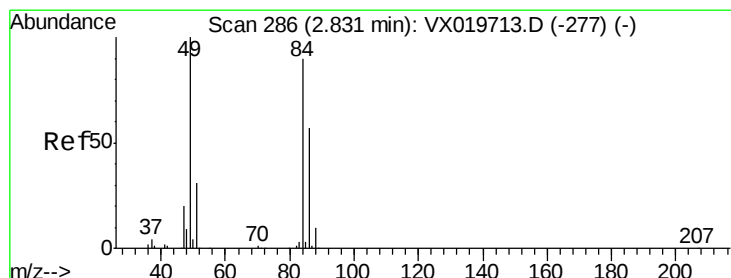
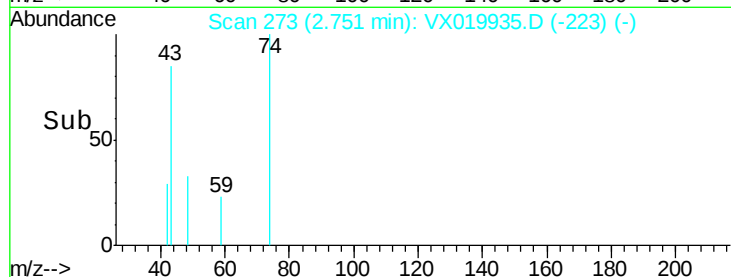
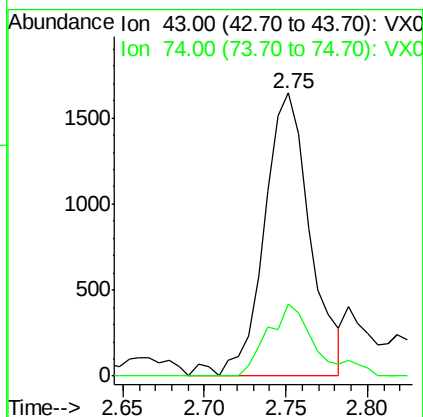
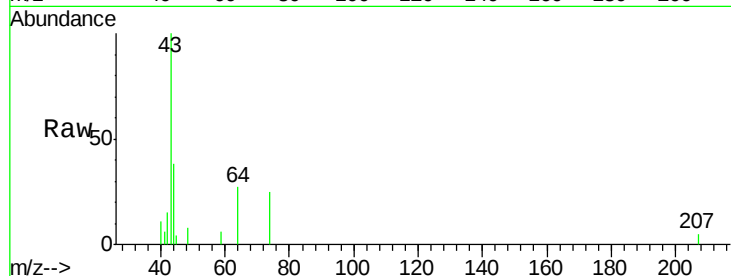




#18
Methyl Acetate
Concen: 0.871 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX019935.D
Acq: 12 Dec 2020 16:24

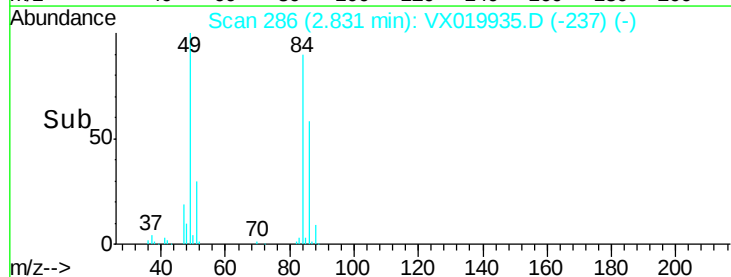
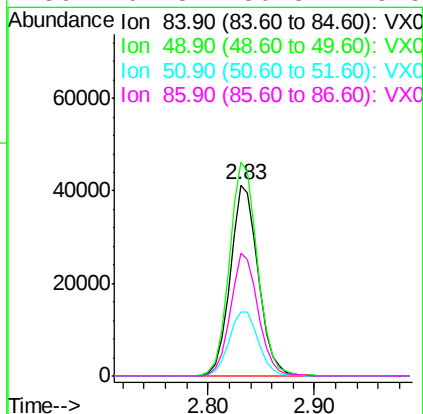
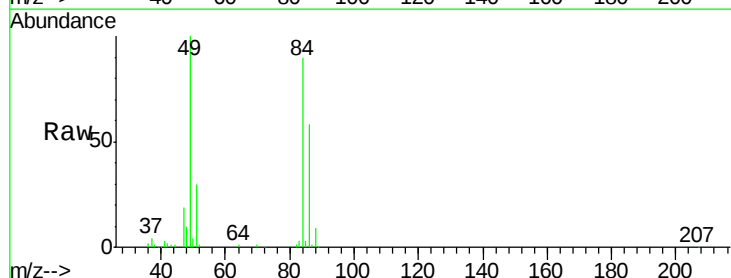
Instrument :
MSVOA_X
ClientSampleId :
PB133501ZHE#16

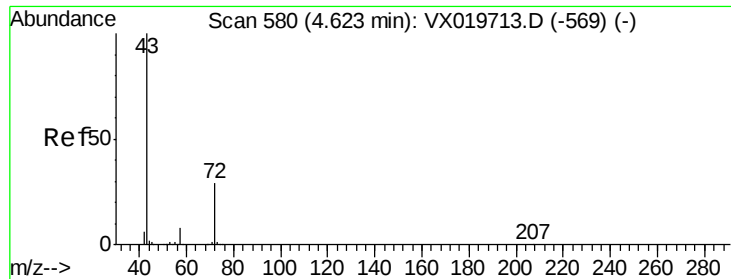
Tgt Ion: 43 Resp: 3210
Ion Ratio Lower Upper
43 100
74 26.6 21.9 32.9



#20
Methylene Chloride
Concen: 21.208 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019935.D
Acq: 12 Dec 2020 16:24

Tgt Ion: 84 Resp: 75755
Ion Ratio Lower Upper
84 100
49 111.7 88.6 132.8
51 33.7 27.0 40.6
86 64.3 50.3 75.5





#25

2-Butanone

Concen: 1.922 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

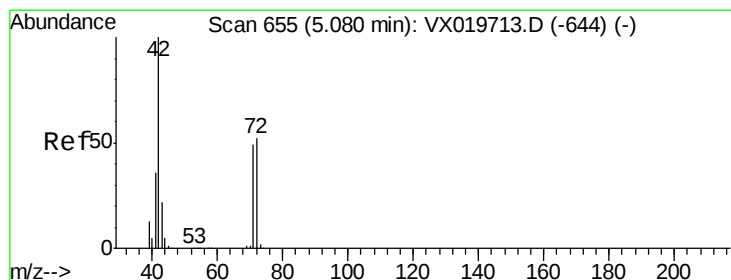
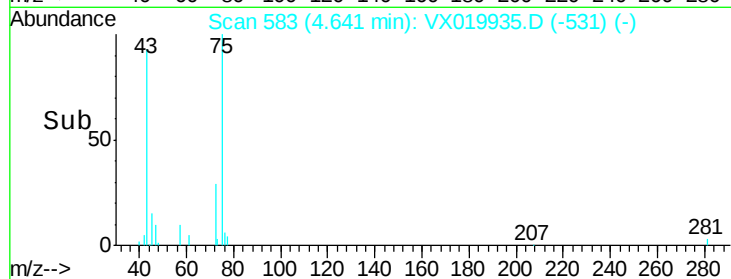
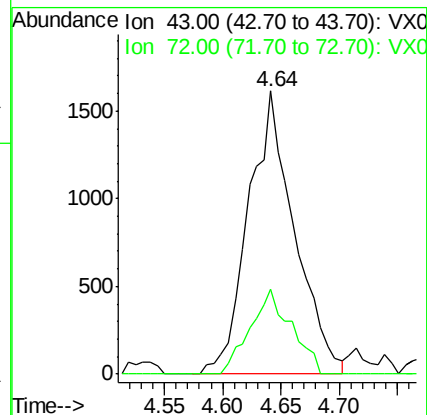
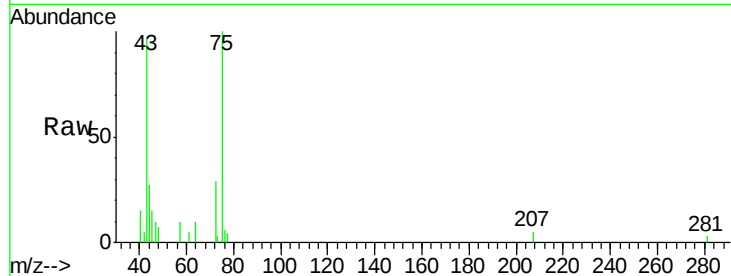
PB133501ZHE#16

Tgt Ion: 43 Resp: 4449

Ion Ratio Lower Upper

43 100

72 29.9 23.7 35.5



#29

Tetrahydrofuran

Concen: 0.735 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.02 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

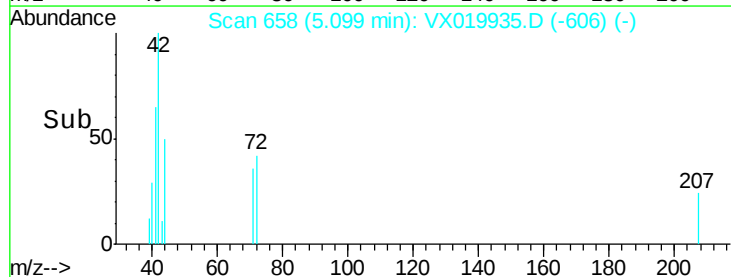
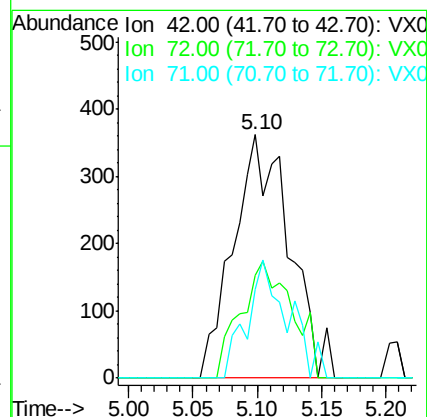
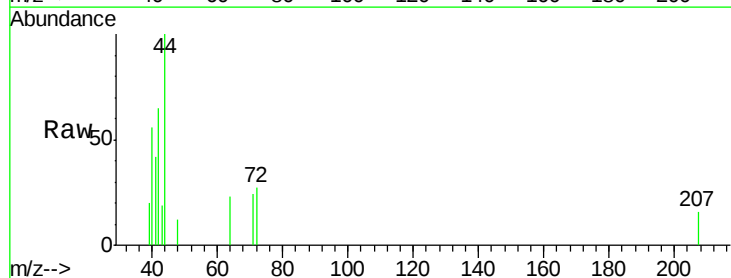
Tgt Ion: 42 Resp: 1096

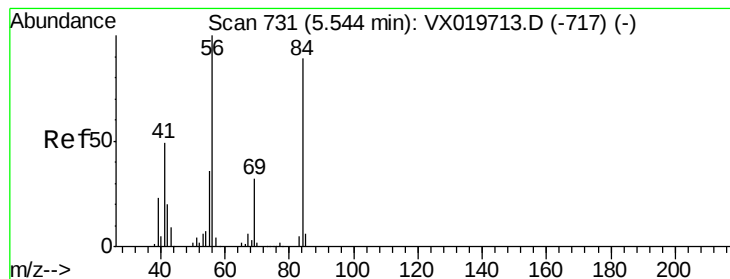
Ion Ratio Lower Upper

42 100

72 44.0 41.7 62.5

71 35.2 38.4 57.6#





#31

Cyclohexane

Concen: 1.202 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

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PB133501ZHE#16

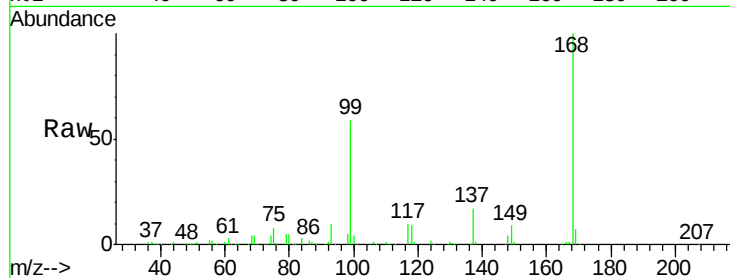
Tgt Ion: 56 Resp: 5991

Ion Ratio Lower Upper

56 100

69 179.8 25.3 37.9#

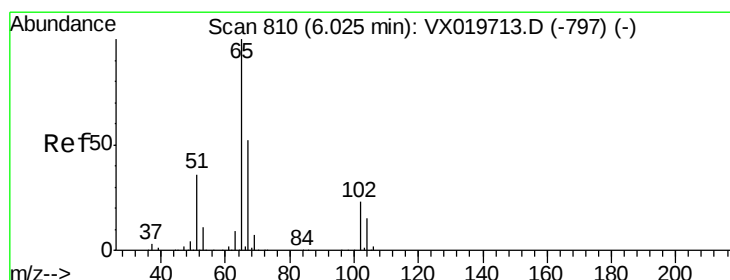
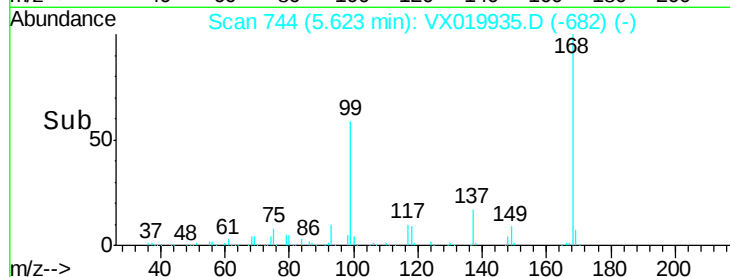
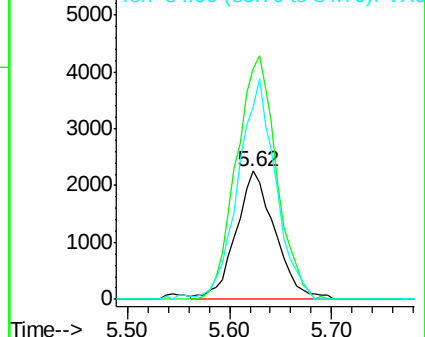
84 150.4 71.4 107.0#



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: 49.525 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019935.D

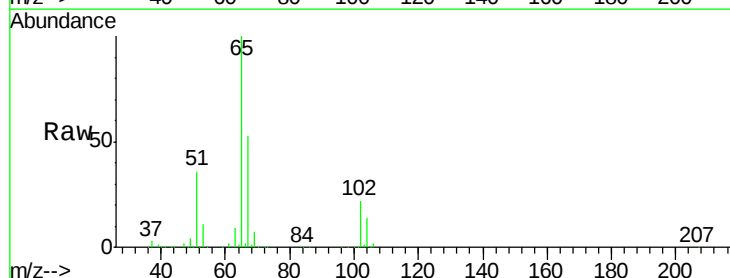
Acq: 12 Dec 2020 16:24

Tgt Ion: 65 Resp: 198492

Ion Ratio Lower Upper

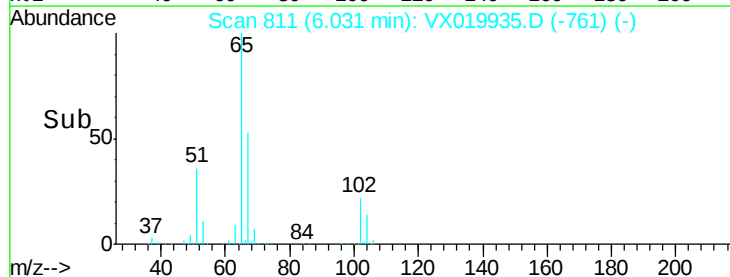
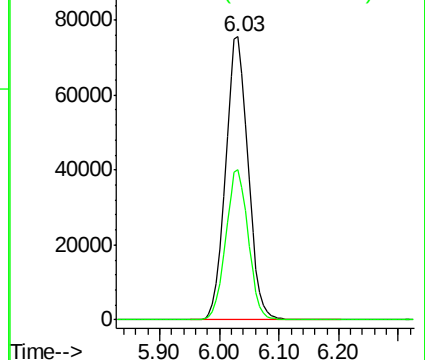
65 100

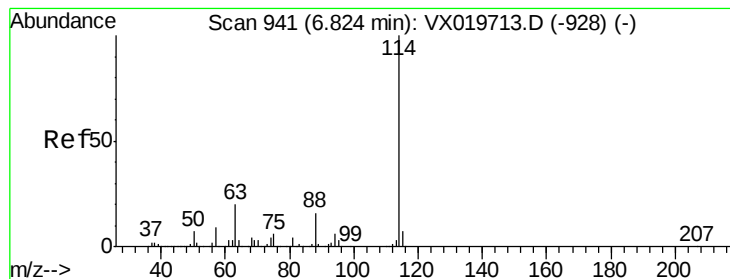
67 53.0 0.0 105.4



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: VX019935.D

Acq: 12 Dec 2020 16:24

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ClientSampleId :

PB133501ZHE#16

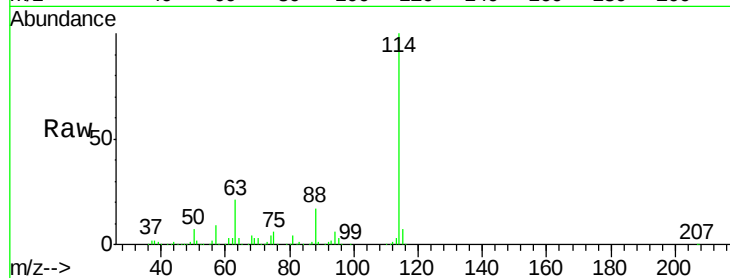
Tgt Ion:114 Resp: 509599

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

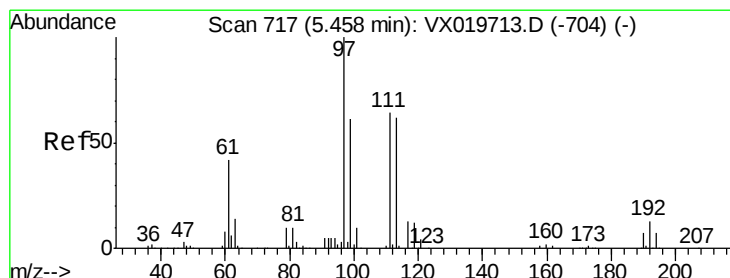
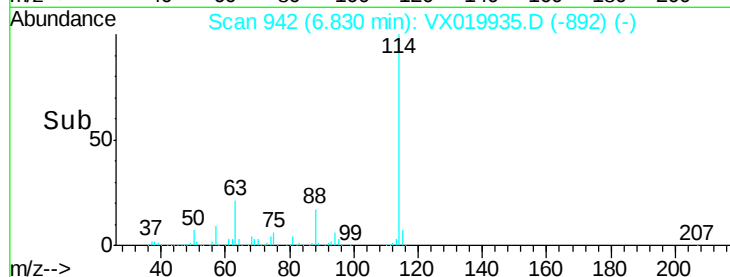
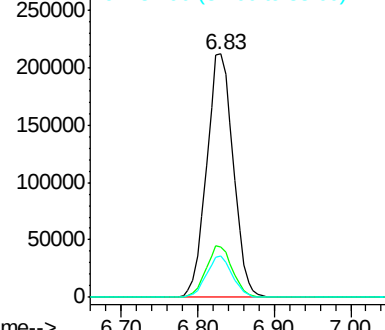
88 16.8 0.0 32.8



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: 48.594 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

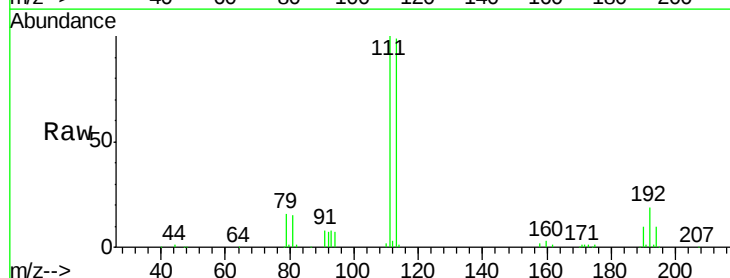
Tgt Ion:113 Resp: 160044

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

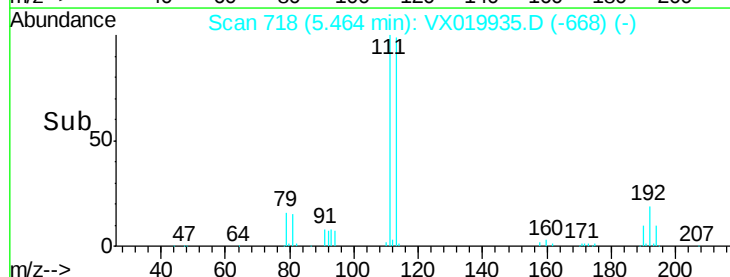
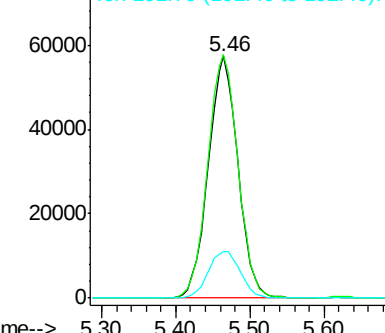
192 20.9 16.7 25.1

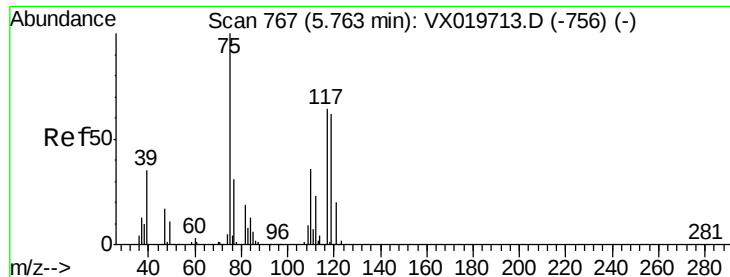


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.164 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

PB133501ZHE#16

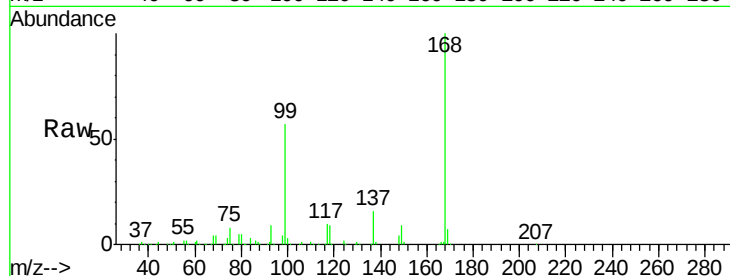
Tgt Ion: 75 Resp: 23780

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.4#

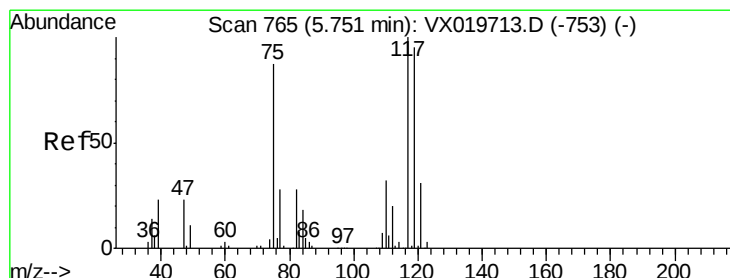
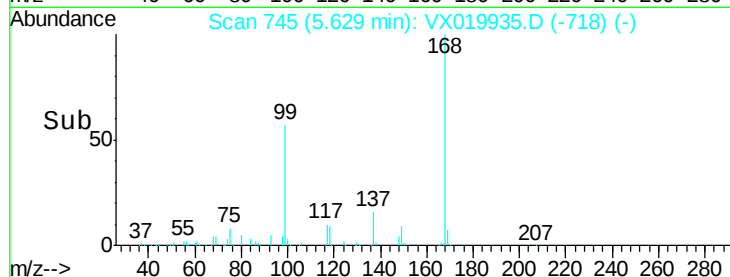
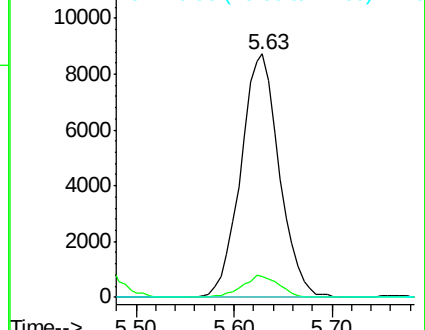
77 0.0 25.3 37.9#



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: 6.677 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

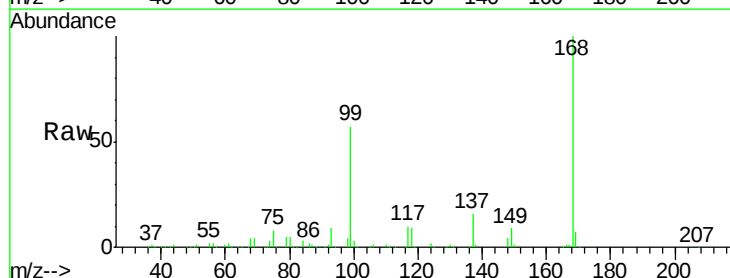
Tgt Ion: 117 Resp: 30110

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.2#

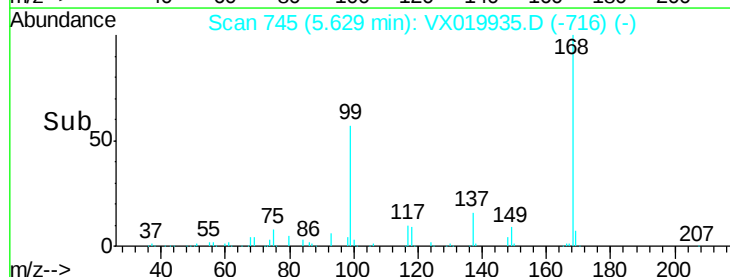
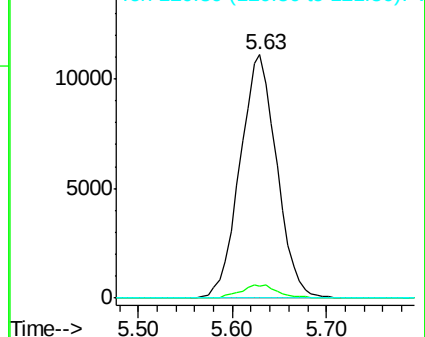
121 0.0 24.8 37.2#

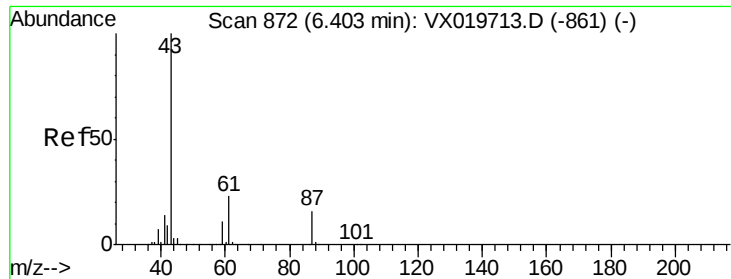


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.972 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

PB133501ZHE#16

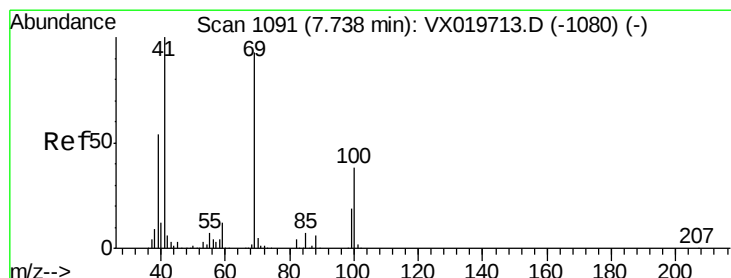
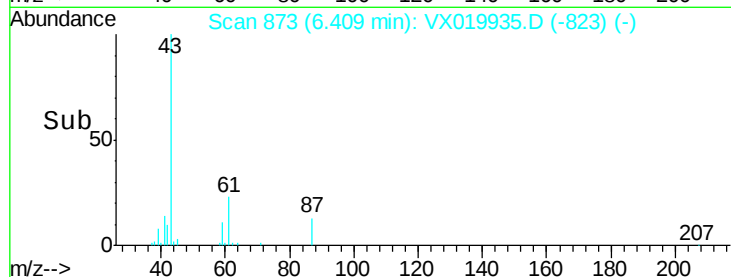
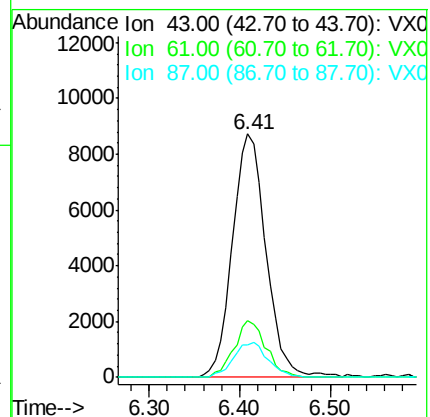
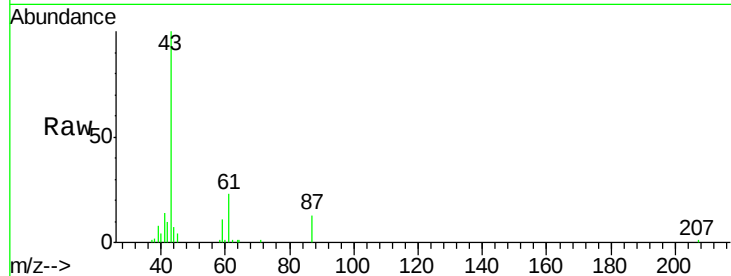
Tgt Ion: 43 Resp: 22466

Ion Ratio Lower Upper

43 100

61 21.9 18.2 27.4

87 14.7 12.5 18.7



#48

Methyl methacrylate

Concen: 1.561 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

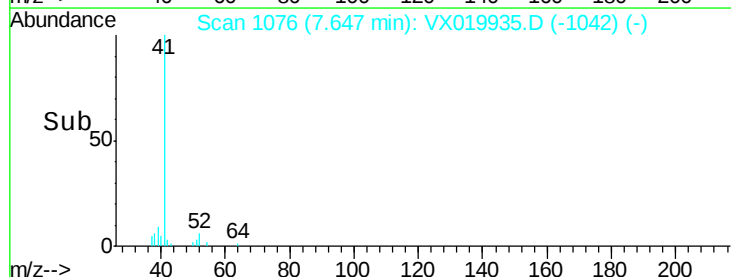
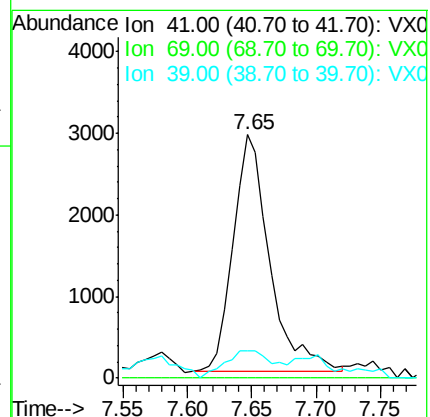
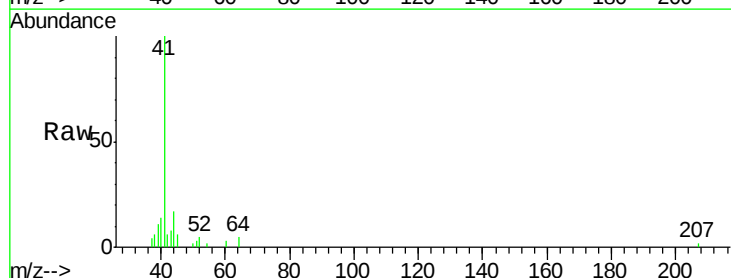
Tgt Ion: 41 Resp: 5805

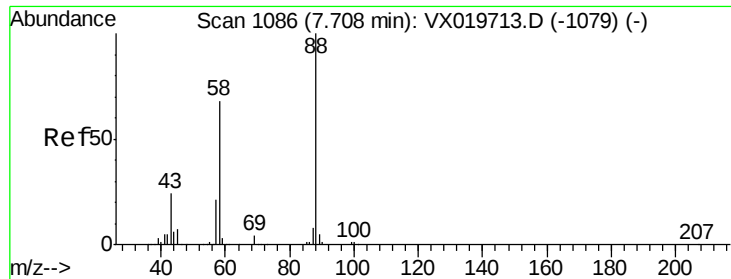
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 2.465 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.15 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

PB133501ZHE#16

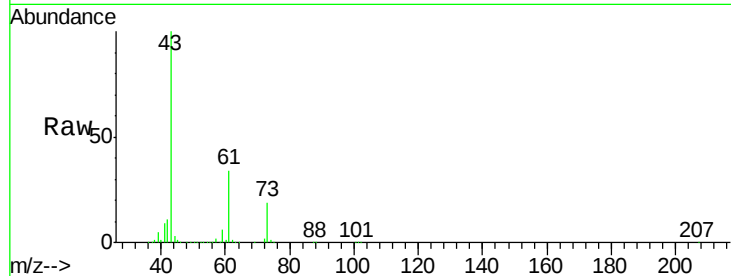
Tgt Ion: 88 Resp: 222

Ion Ratio Lower Upper

88 100

43 584084.7 23.2 34.8#

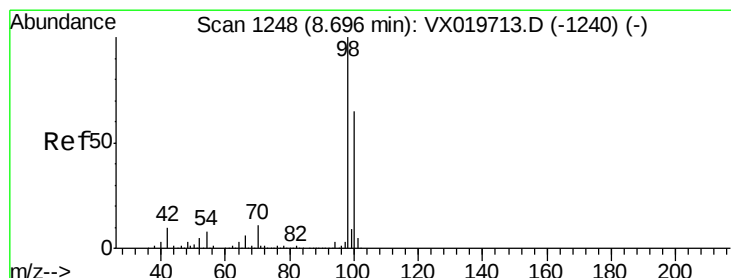
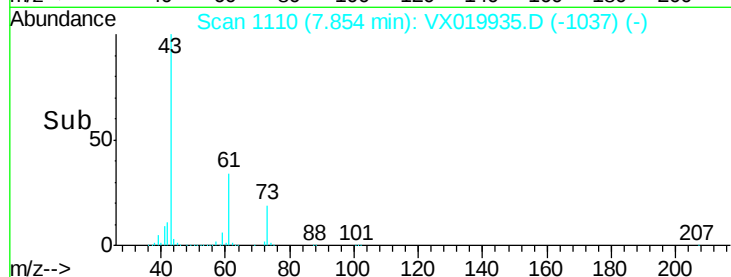
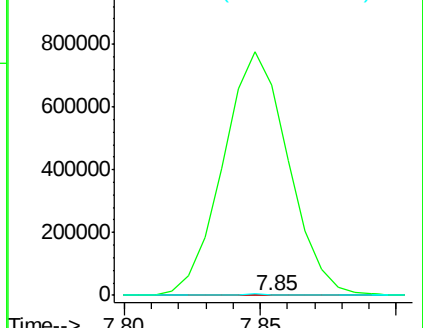
58 2990.5 55.0 82.4#



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: 50.231 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019935.D

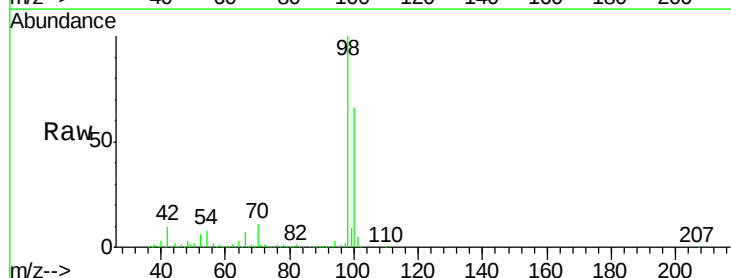
Acq: 12 Dec 2020 16:24

Tgt Ion: 98 Resp: 631583

Ion Ratio Lower Upper

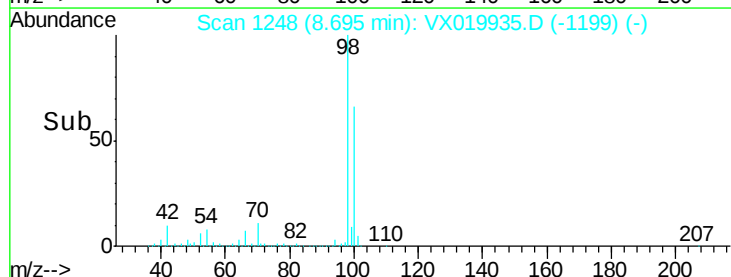
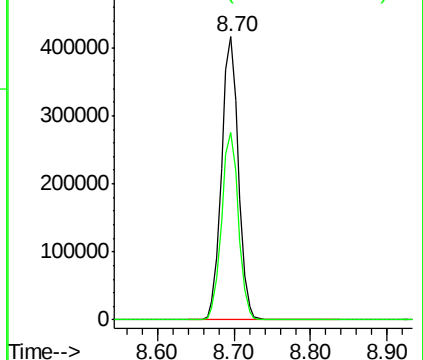
98 100

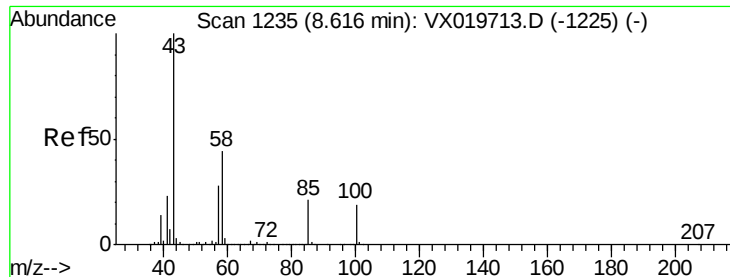
100 66.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

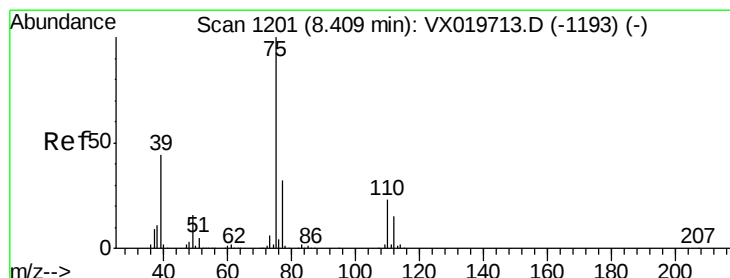
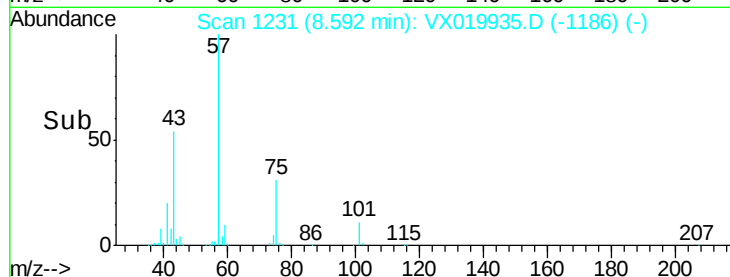
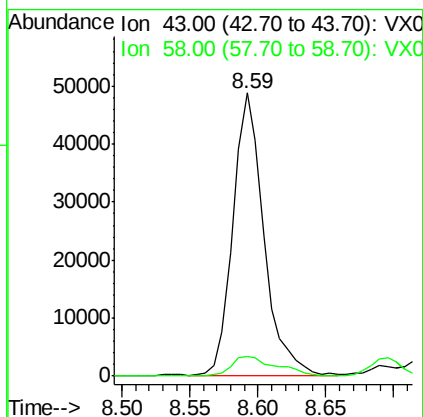
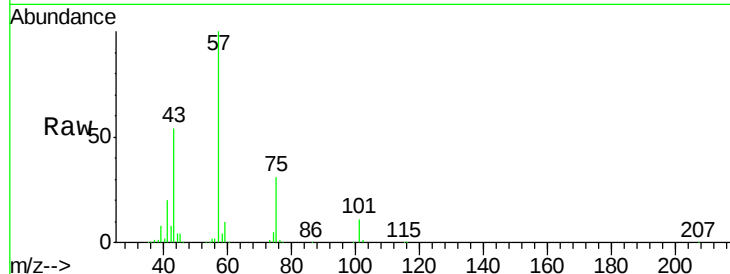




#51
 4-Methyl-2-Pentanone
 Concen: 16.696 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VX019935.D
 Acq: 12 Dec 2020 16:24

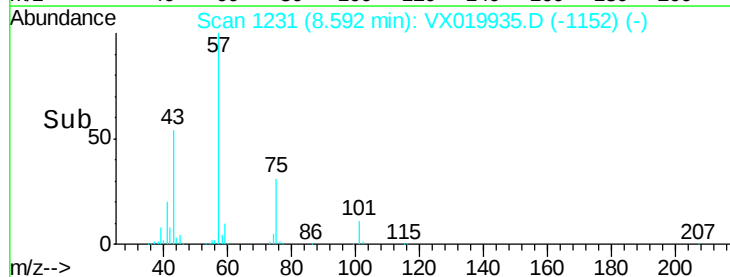
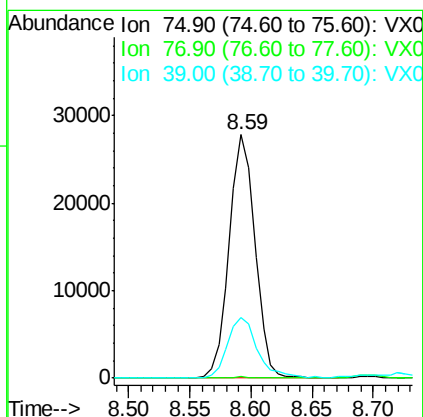
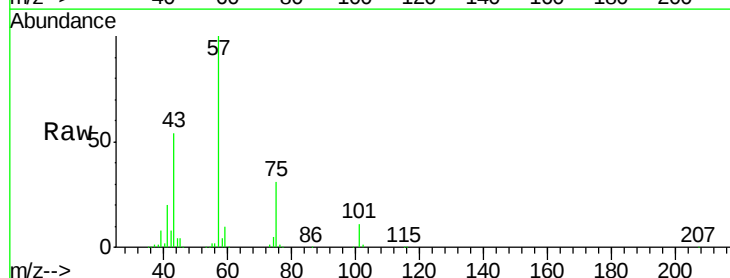
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133501ZHE#16

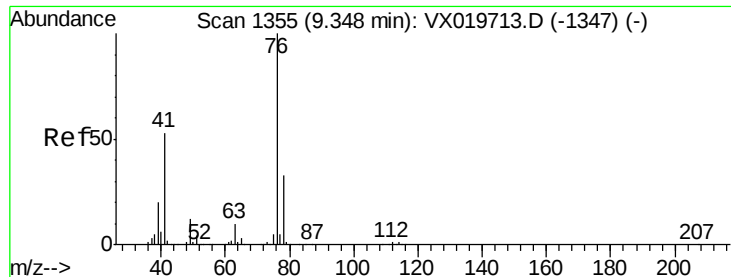
Tgt Ion: 43 Resp: 77054
 Ion Ratio Lower Upper
 43 100
 58 10.2 35.4 53.0#



#54
 cis-1,3-Dichloropropene
 Concen: 7.156 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019935.D
 Acq: 12 Dec 2020 16:24

Tgt Ion: 75 Resp: 40645
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.7 38.5#
 39 24.8 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 4.353 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

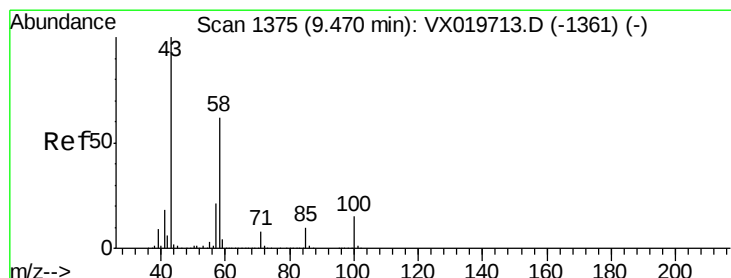
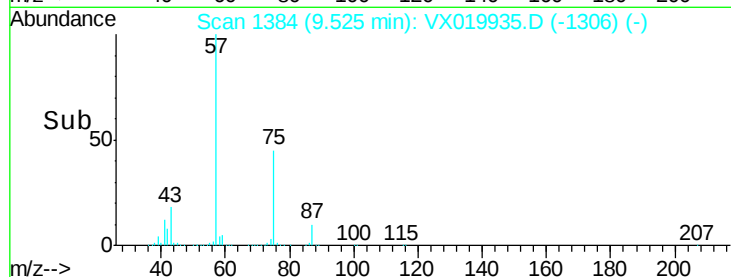
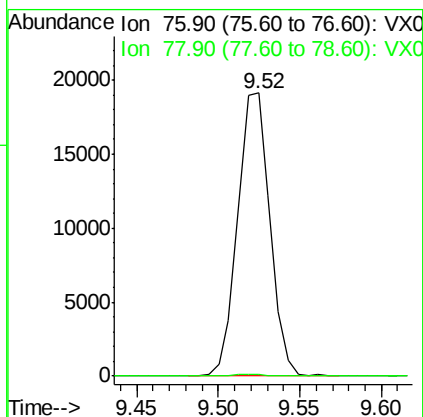
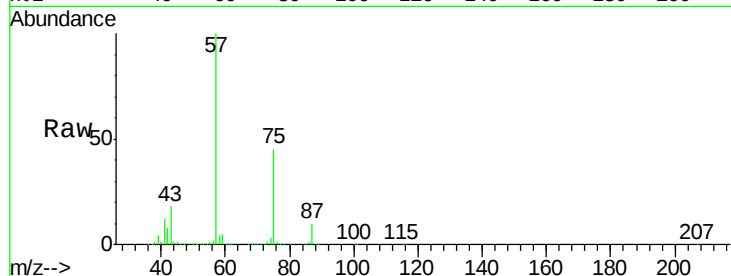
PB133501ZHE#16

Tgt Ion: 76 Resp: 26352

Ion Ratio Lower Upper

76 100

78 0.5 26.2 39.2#



#59

2-Hexanone

Concen: 88.695 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019935.D

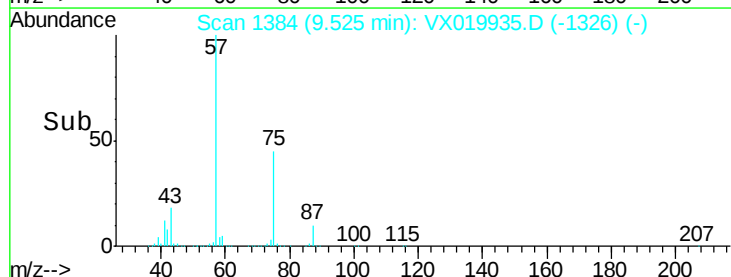
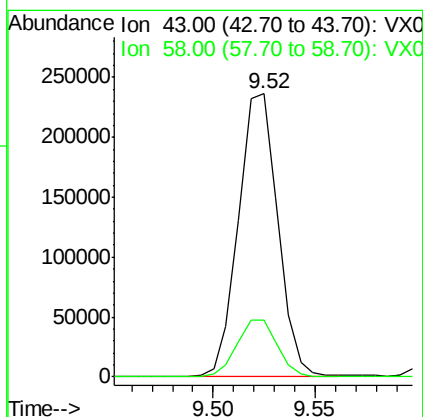
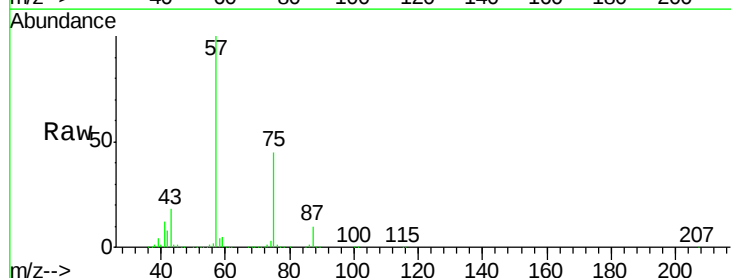
Acq: 12 Dec 2020 16:24

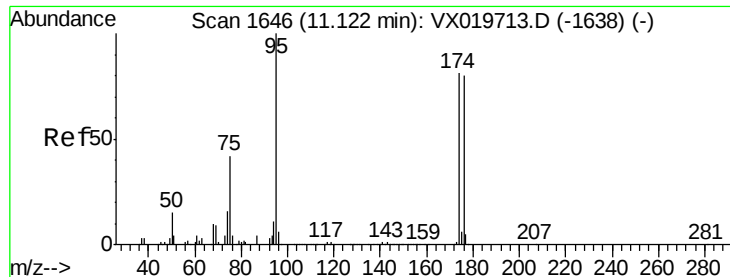
Tgt Ion: 43 Resp: 317286

Ion Ratio Lower Upper

43 100

58 20.6 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 46.601 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

PB133501ZHE#16

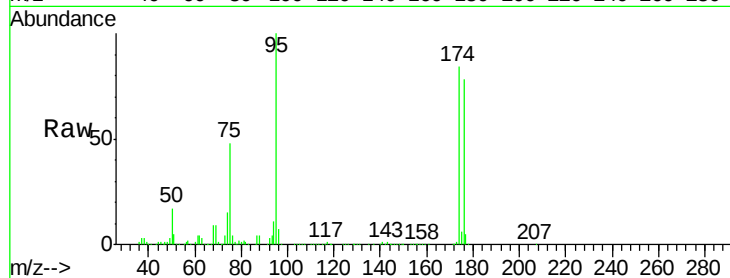
Tgt Ion: 95 Resp: 223019

Ion Ratio Lower Upper

95 100

174 77.3 0.0 154.6

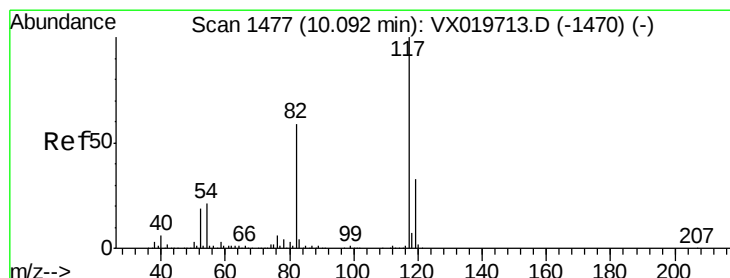
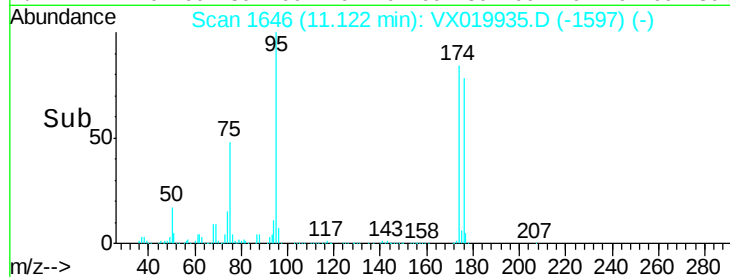
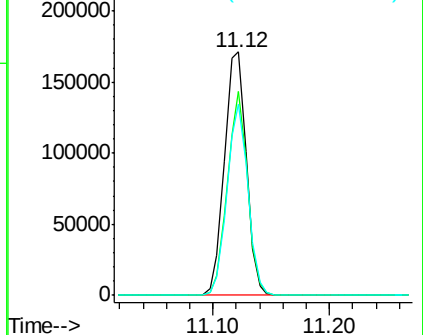
176 74.8 0.0 155.8



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: 10.09 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VX019935.D

Acq: 12 Dec 2020 16:24

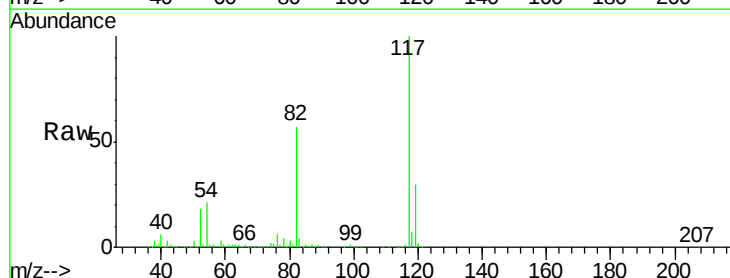
Tgt Ion: 117 Resp: 483943

Ion Ratio Lower Upper

117 100

82 56.9 47.4 71.2

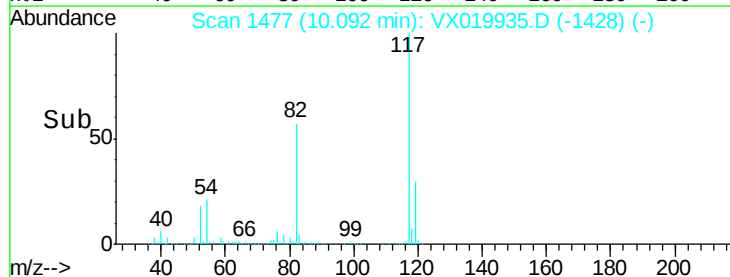
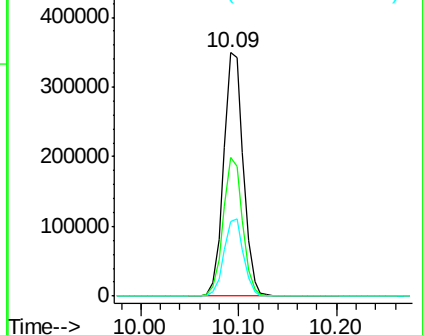
119 30.4 26.6 39.8

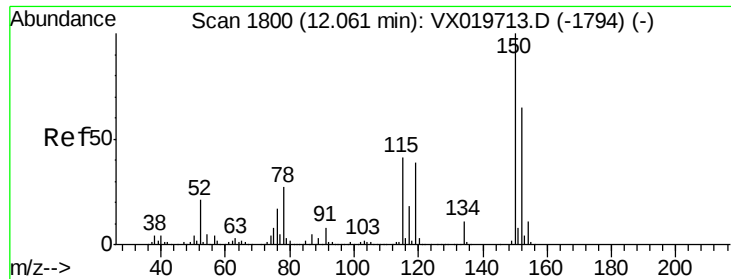


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX019935.D

Acq: 12 Dec 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

PB133501ZHE#16

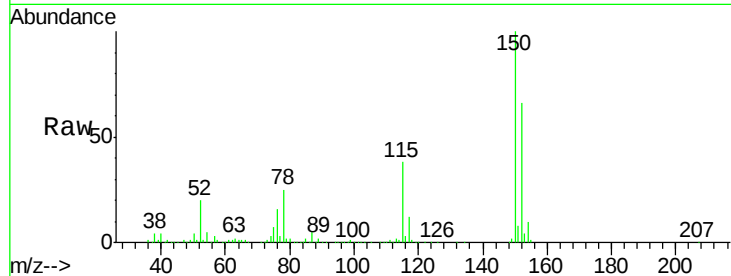
Tgt Ion:152 Resp: 210417

Ion Ratio Lower Upper

152 100

115 58.7 41.1 123.3

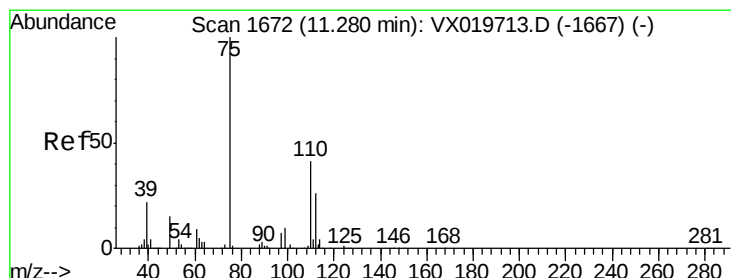
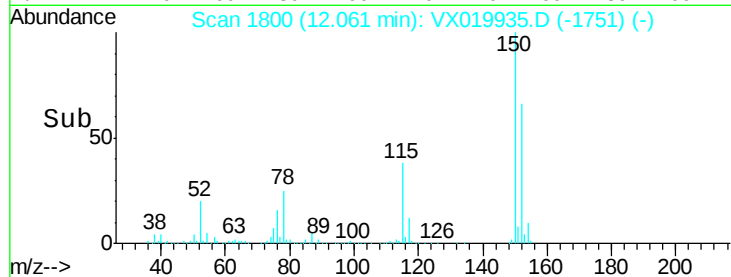
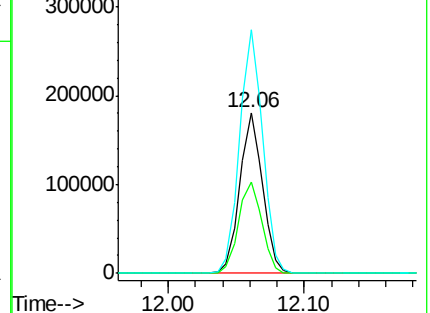
150 153.8 0.0 349.0



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: 22.771 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019935.D

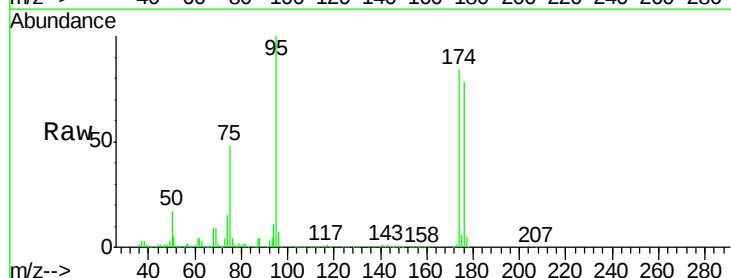
Acq: 12 Dec 2020 16:24

Tgt Ion: 75 Resp: 107462

Ion Ratio Lower Upper

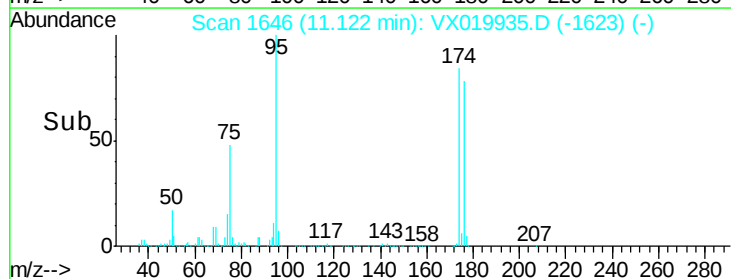
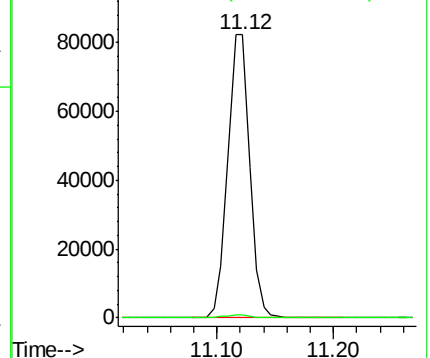
75 100

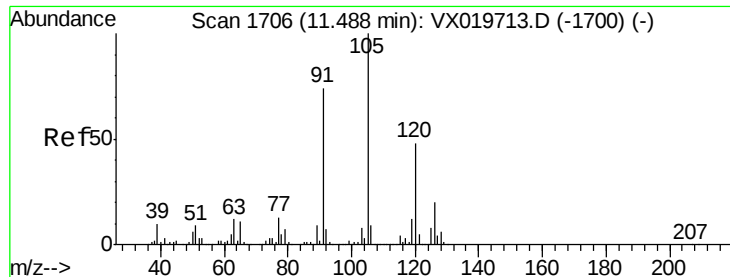
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

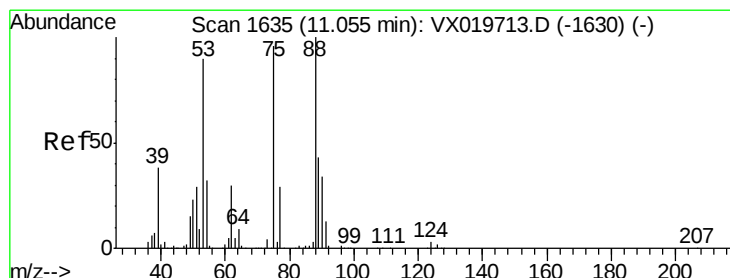
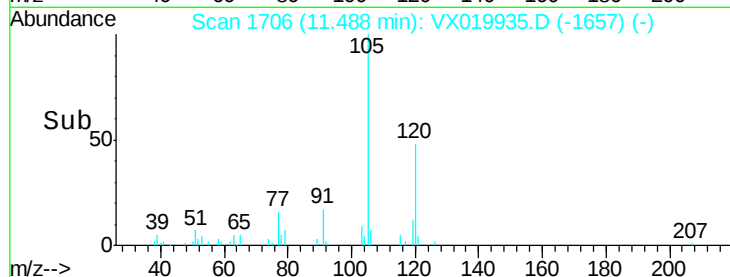
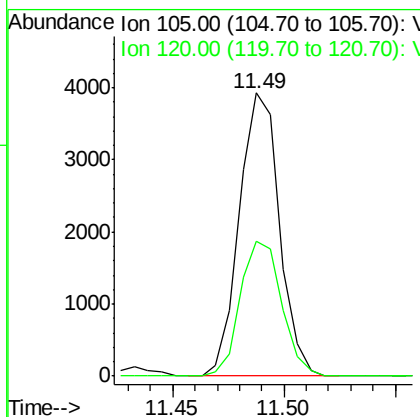
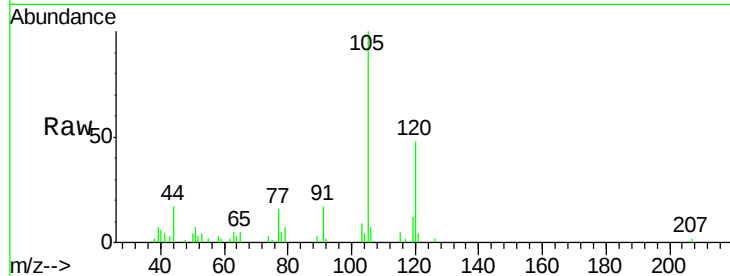




#80
 1,3,5-Trimethylbenzene
 Concen: 0.407 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. -0.00 min
 Lab File: VX019935.D
 Acq: 12 Dec 2020 16:24

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133501ZHE#16

Tgt Ion: 105 Resp: 4934
 Ion Ratio Lower Upper
 105 100
 120 49.3 23.8 71.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.826 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019935.D
 Acq: 12 Dec 2020 16:24

Tgt Ion: 75 Resp: 107462
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.5 111.7#
 89 0.0 37.9 56.9#

