

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX063020\
 Data File : VX017073.D
 Acq On : 01 Jul 2020 03:01
 Operator : JC/SP
 Sample : PB129852ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#09

Quant Time: Jul 01 08:22:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	223551	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	388143	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	413296	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	212215	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	151492	54.97	ug/l	0.00
Spiked Amount			Recovery	=	109.94%	
35) Dibromofluoromethane	5.47	113	129212	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
50) Toluene-d8	8.70	98	490780	54.06	ug/l	0.00
Spiked Amount			Recovery	=	108.12%	
62) 4-Bromofluorobenzene	11.12	95	203522	57.34	ug/l	0.00
Spiked Amount			Recovery	=	114.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	429	0.718	ug/l	83
11) Tert butyl alcohol	3.00	59	1790	3.405	ug/l #	76
13) Acrolein	2.28	56	249	0.792	ug/l #	68
16) Acetone	2.42	43	10625	10.306	ug/l	97
18) Methyl Acetate	2.75	43	2827	1.050	ug/l	93
20) Methylene Chloride	2.84	84	12774	4.693	ug/l	94
25) 2-Butanone	4.64	43	6020	3.504	ug/l #	87
29) Tetrahydrofuran	5.10	42	1309	1.153	ug/l #	45
31) Cyclohexane	5.62	56	4534	1.219	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	16838	4.590	ug/l #	50
38) Carbon Tetrachloride	5.64	117	21419	5.301	ug/l #	17
43) Isopropyl Acetate	6.42	43	60973	9.858	ug/l	99
44) Trichloroethene	7.18	130	329	Below Cal		67
48) Methyl methacrylate	7.65	41	4026	1.370	ug/l #	15
49) 1,4-Dioxane	7.71	88	55	0.826	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	58756	15.937	ug/l #	52
52) Toluene	8.76	92	1404	0.209	ug/l	90
54) cis-1,3-Dichloropropene	8.59	75	25847	5.611	ug/l #	65
57) 1,3-Dichloropropane	9.52	76	5070	1.090	ug/l #	44
59) 2-Hexanone	9.42	43	57180	21.236	ug/l #	23
74) N-amyl acetate	10.80	43	3274	0.552	ug/l #	49
76) 1,2,3-Trichloropropane	11.12	75	102323	24.520	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	3048	0.264	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	102323	63.497	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	377	Below Cal		94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

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Instrument :

MSVOA_X

ClientSampleId :

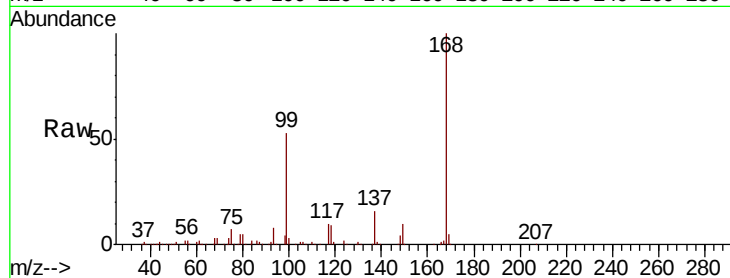
PB129852ZHE#09

Tot Ion:168 Resp: 223551

Ion Ratio Lower Upper

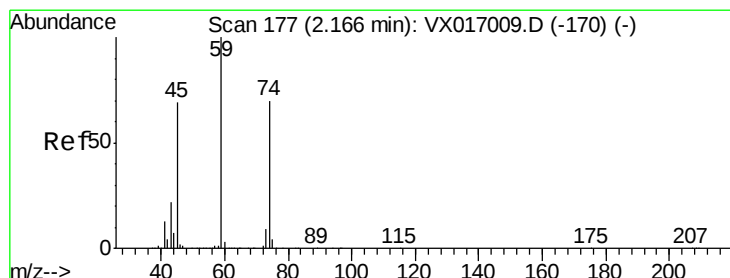
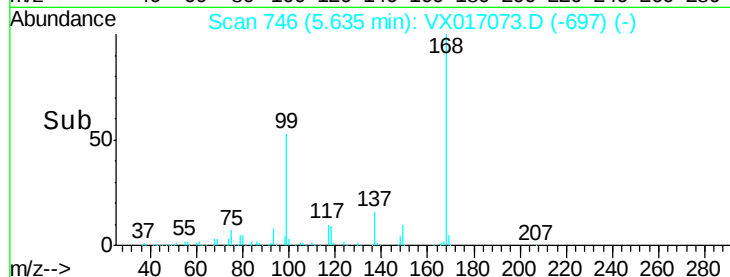
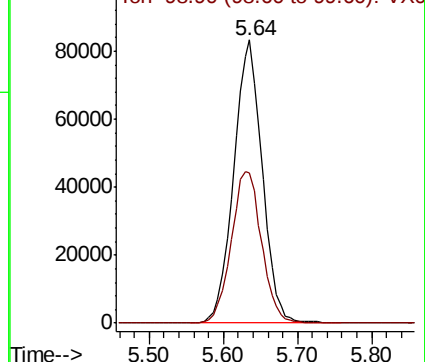
168 100

99 52.9 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 0.718 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017073.D

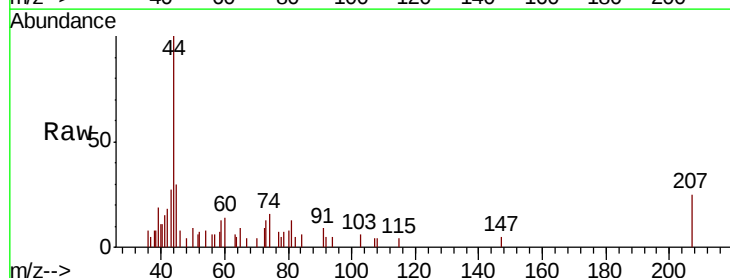
Acq: 01 Jul 2020 03:01

Tgt Ion: 74 Resp: 429

Ion Ratio Lower Upper

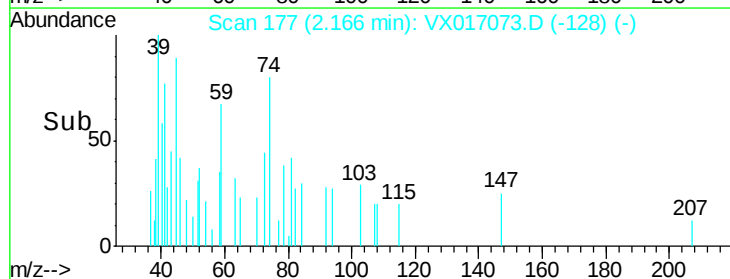
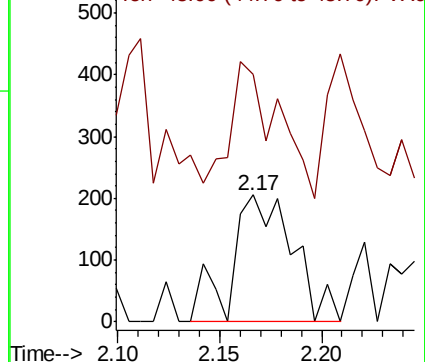
74 100

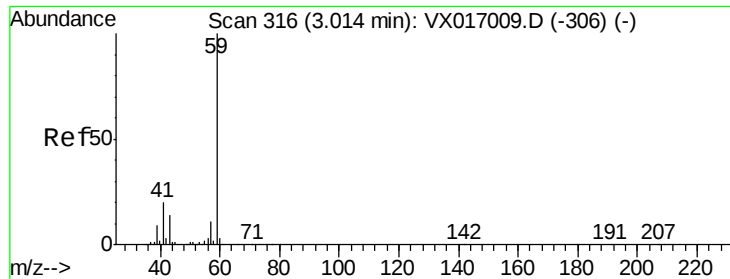
45 83.0 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

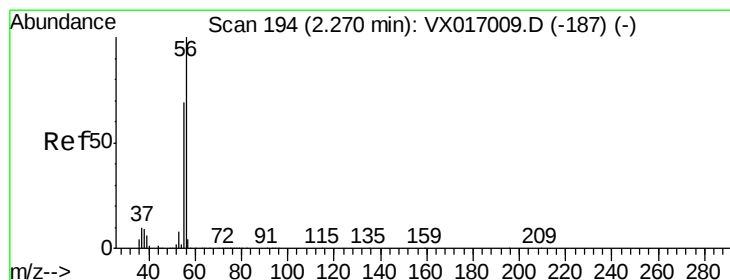
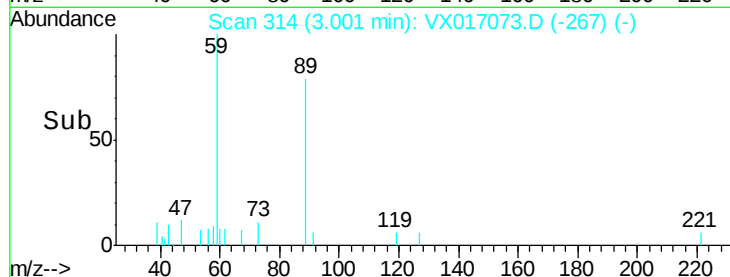
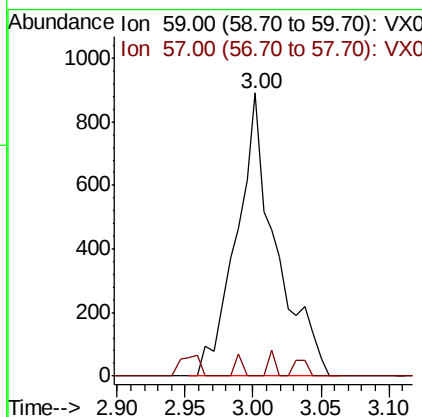
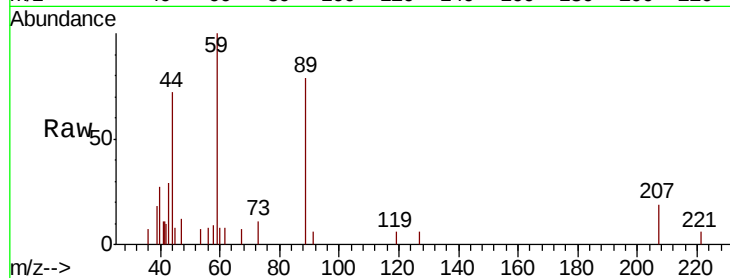




#11
Tert butvl alcohol
Concen: 3.405 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

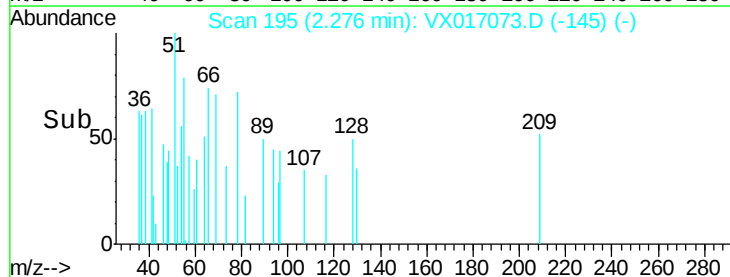
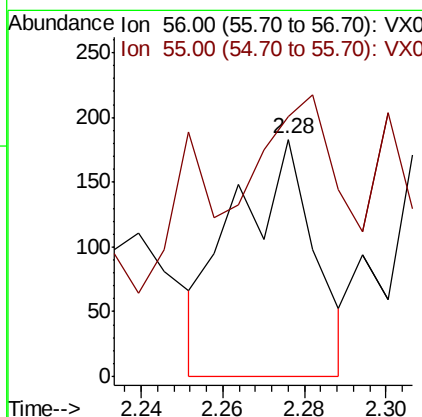
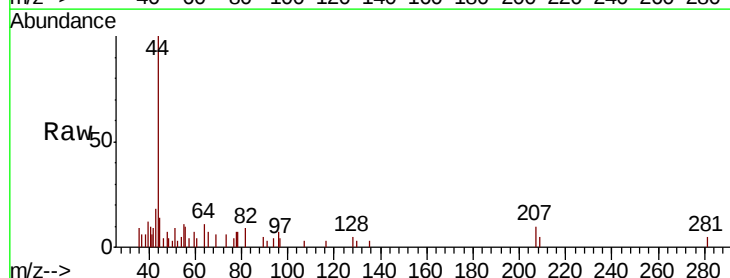
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#09

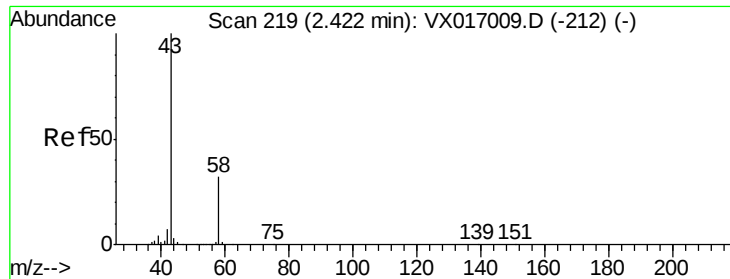
Tot Ion: 59 Resp: 1790
Ion Ratio Lower Upper
59 100
57 1.4 8.2 12.2#



#13
Acrolein
Concen: 0.792 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

Tgt Ion: 56 Resp: 249
Ion Ratio Lower Upper
56 100
55 43.8 55.7 83.5#





#16

Acetone

Concen: 10.306 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

Instrument :

MSVOA_X

ClientSampleId :

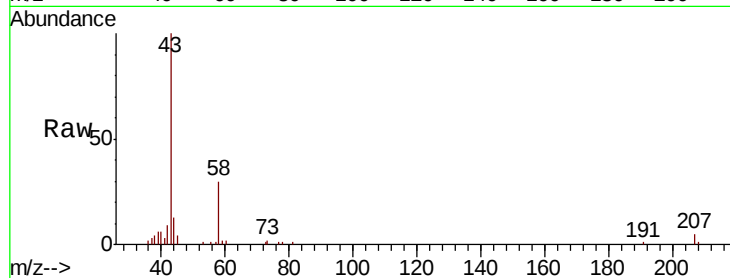
PB129852ZHE#09

Tot Ion: 43 Resp: 10625

Ion Ratio Lower Upper

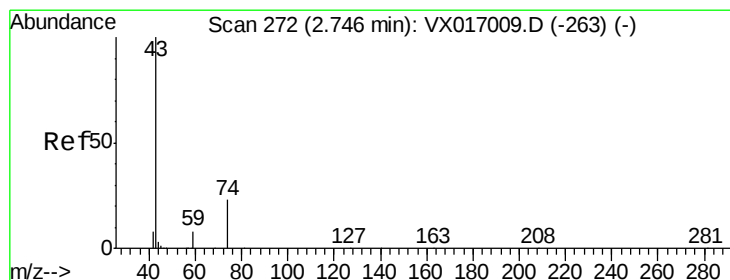
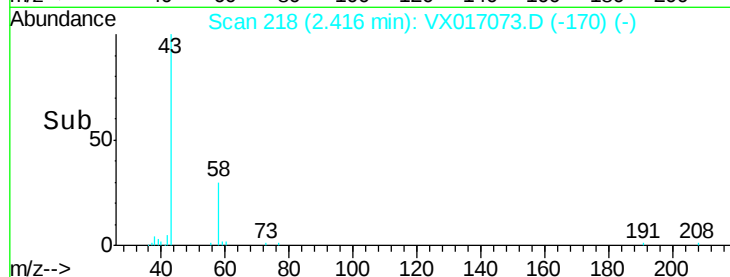
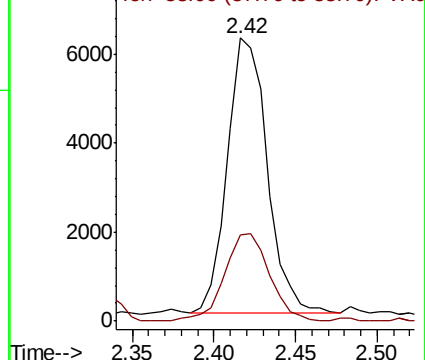
43 100

58 30.2 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.050 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX017073.D

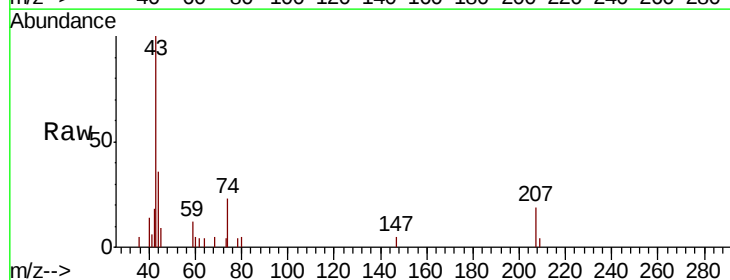
Acq: 01 Jul 2020 03:01

Tgt Ion: 43 Resp: 2827

Ion Ratio Lower Upper

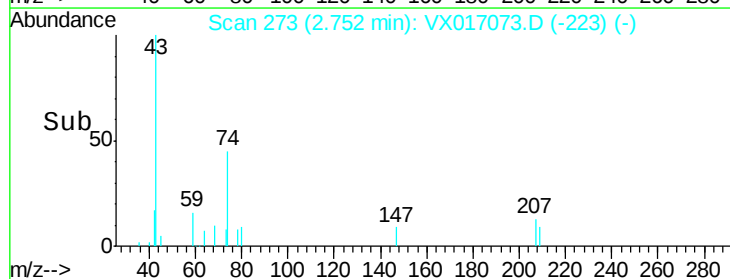
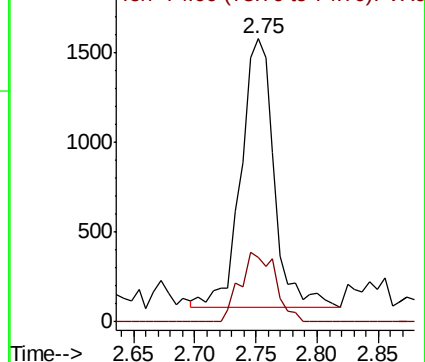
43 100

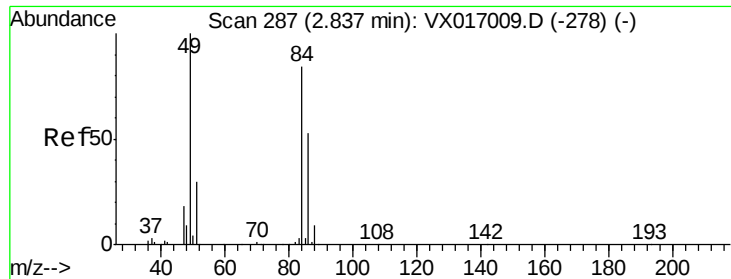
74 27.6 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

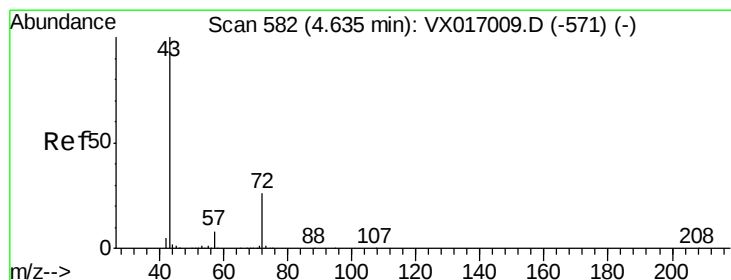
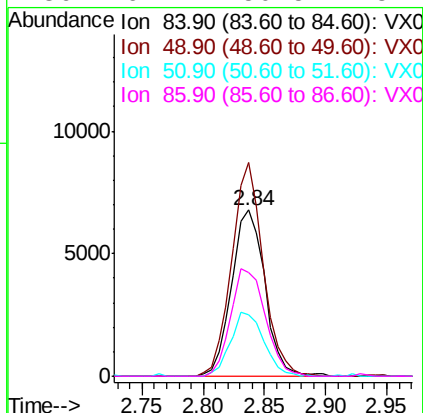
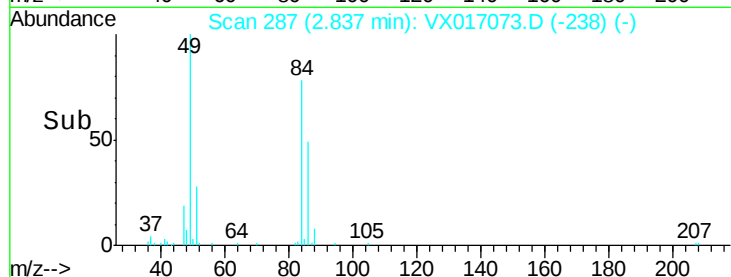
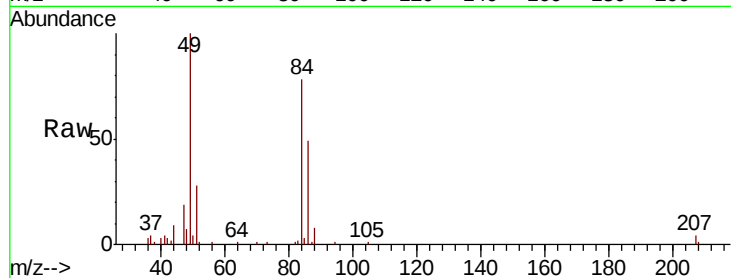




#20
Methvlene Chloride
Concen: 4.693 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

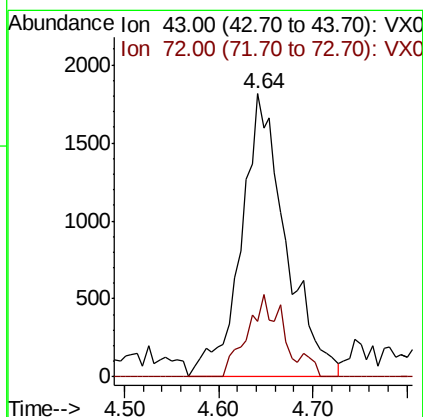
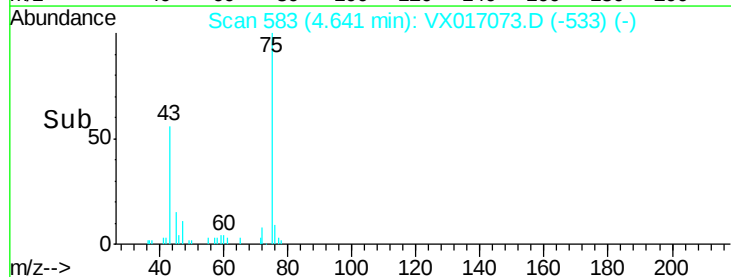
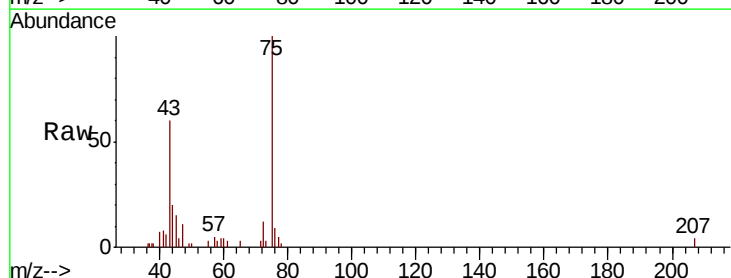
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#09

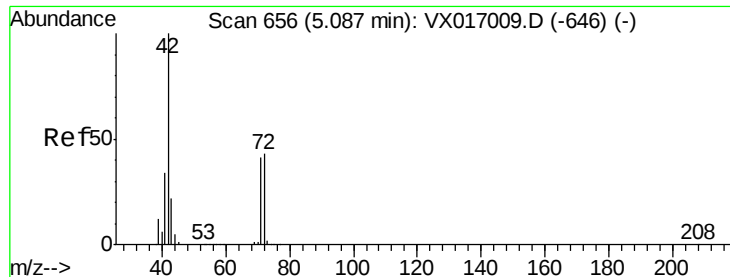
Tot Ion: 84 Resp: 12774
Ion Ratio Lower Upper
84 100
49 128.8 94.7 142.1
51 36.7 28.6 42.8
86 62.7 50.5 75.7



#25
2-Butanone
Concen: 3.504 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

Tgt Ion: 43 Resp: 6020
Ion Ratio Lower Upper
43 100
72 19.5 20.8 31.2#

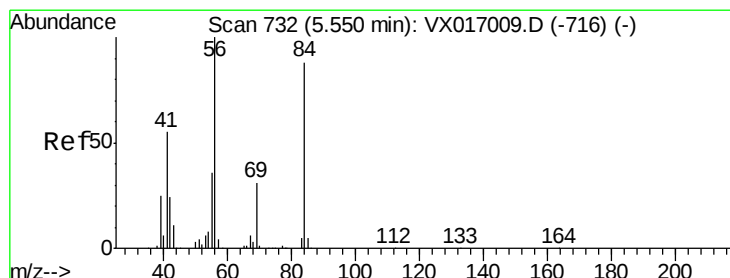
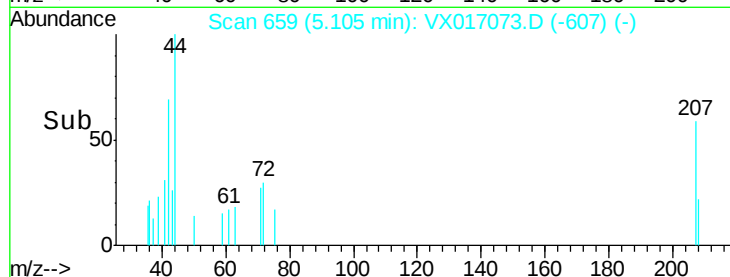
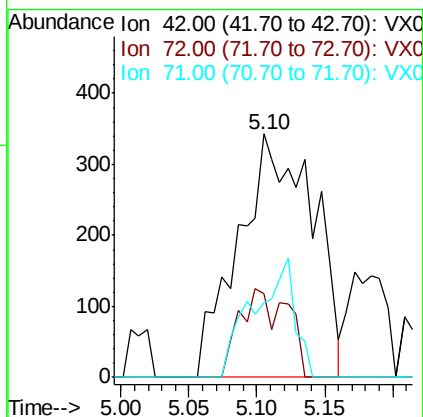
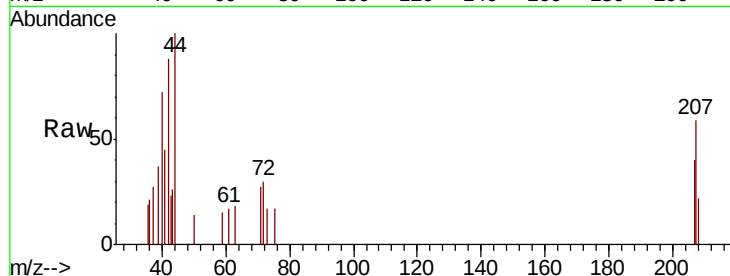




#29
Tetrahydrofuran
Concen: 1.153 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

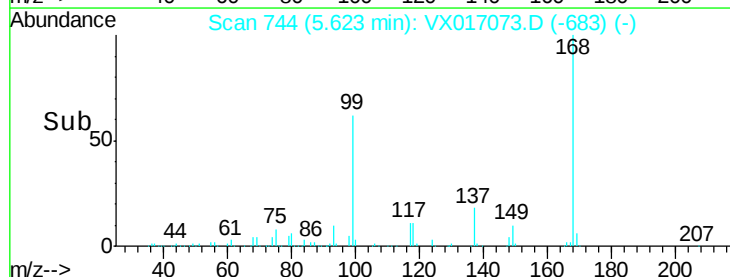
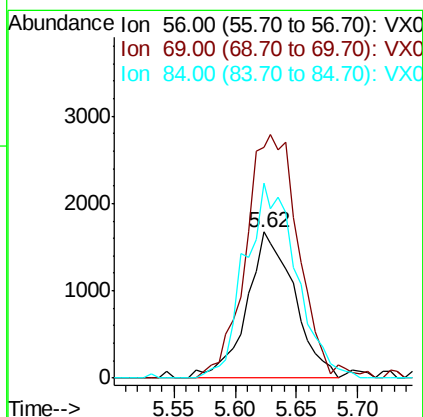
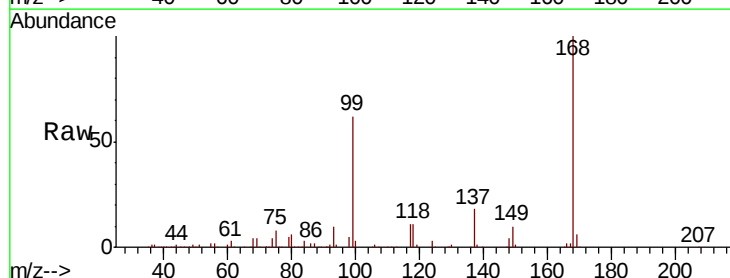
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#09

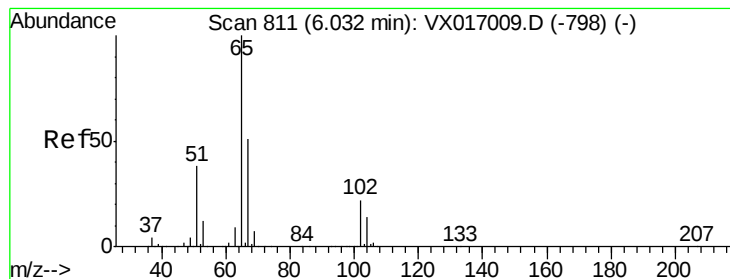
Tot Ion	Ratio	Lower	Upper
42	100		
72	15.0	35.3	52.9#
71	0.0	33.1	49.7#



#31
Cyclohexane
Concen: 1.219 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	158.5	25.0	37.4#
84	133.6	69.1	103.7#





#33

1,2-Dichloroethane-d4

Concen: 54.969 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

Instrument :

MSVOA_X

ClientSampleId :

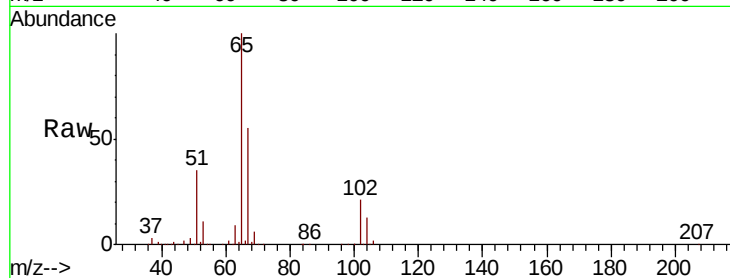
PB129852ZHE#09

Tot Ion: 65 Resp: 151492

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

60000

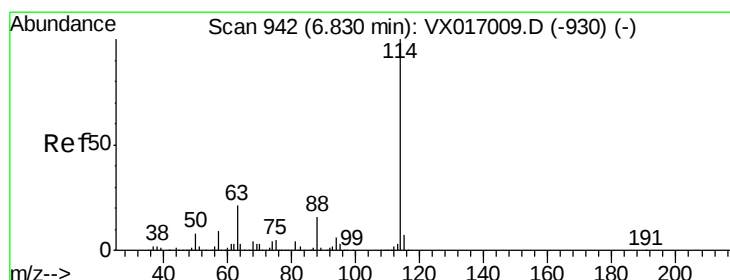
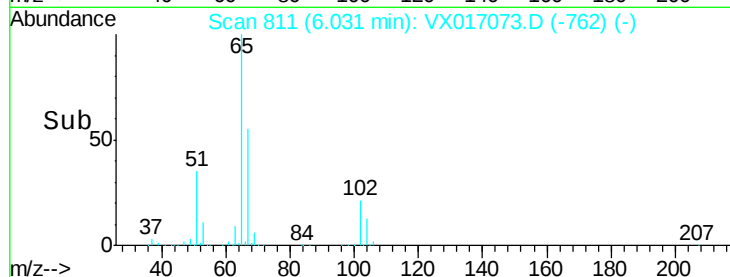
40000

20000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

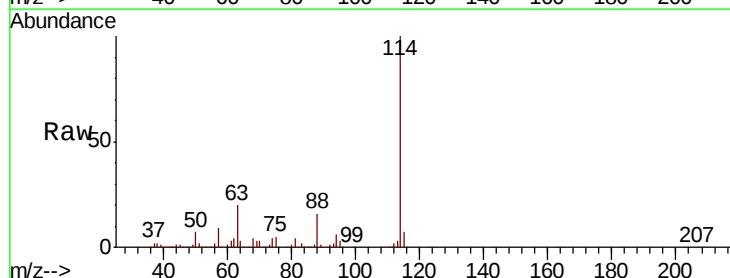
Tgt Ion: 114 Resp: 388143

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.4

88 16.3 0.0 32.4



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

6.83

200000

150000

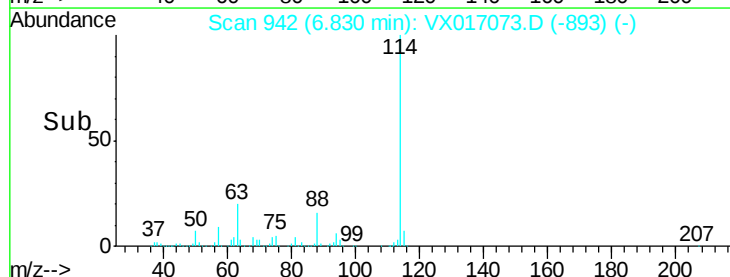
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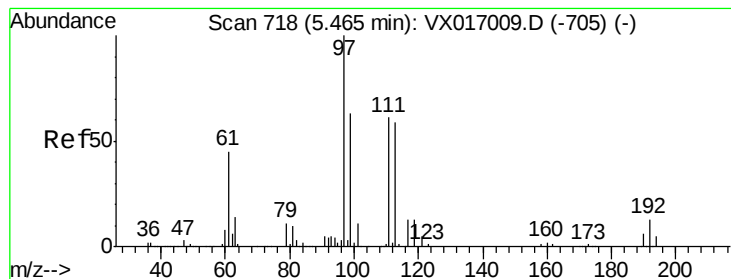
50000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 52.626 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#09

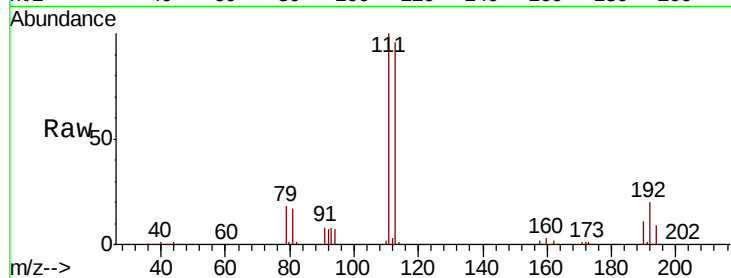
Tot Ion:113 Resp: 129212

Ion Ratio Lower Upper

113 100

111 103.1 81.9 122.9

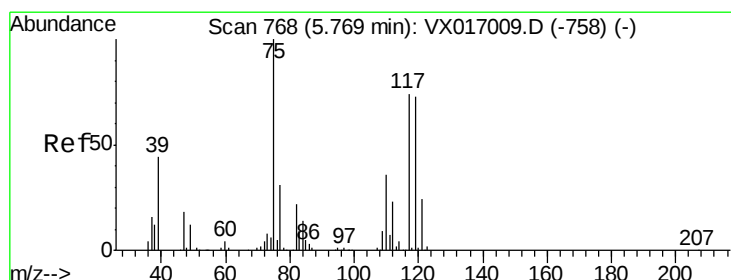
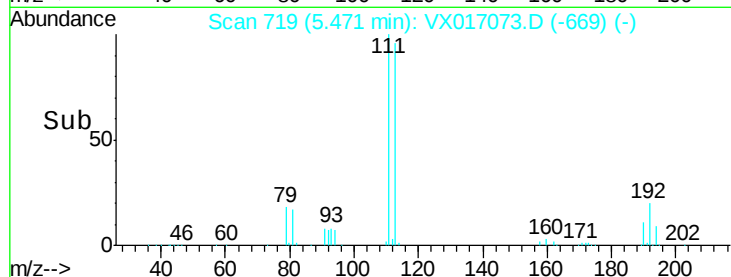
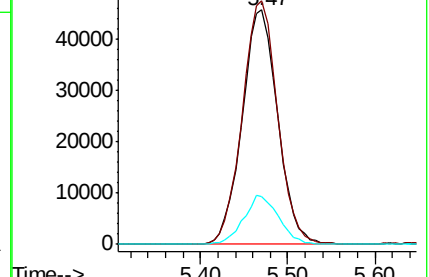
192 20.5 16.7 25.1



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: 4.590 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

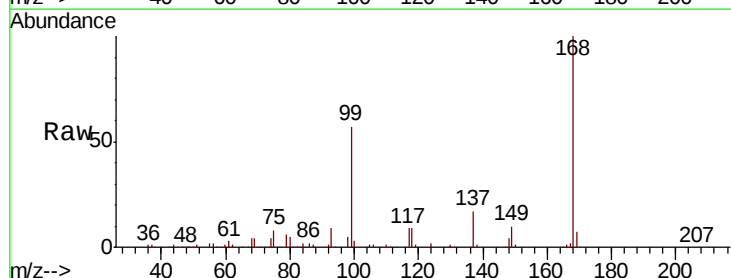
Tgt Ion: 75 Resp: 16838

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.1#

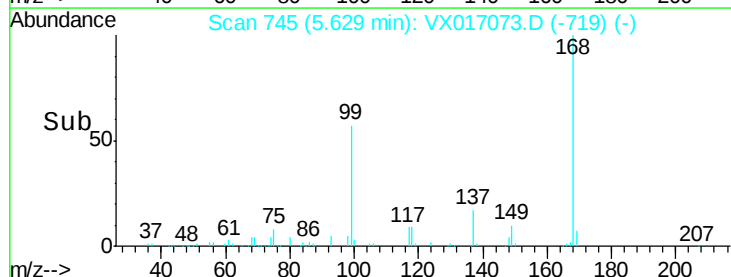
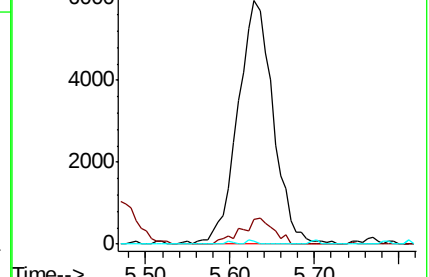
77 0.4 24.6 37.0#

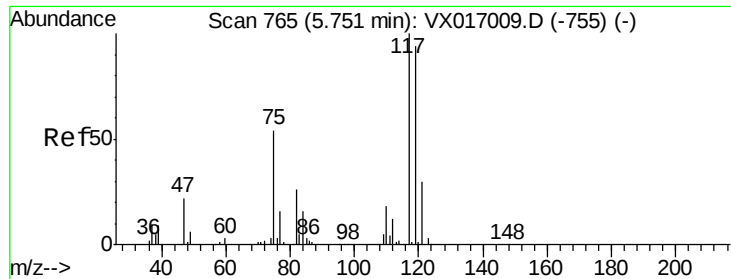


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.301 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#09

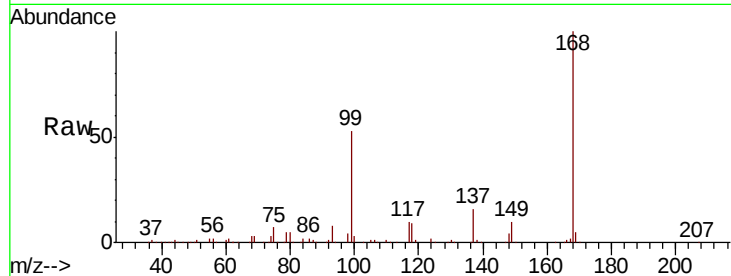
Tot Ion:117 Resp: 21419

Ion Ratio Lower Upper

117 100

119 5.2 75.4 113.0#

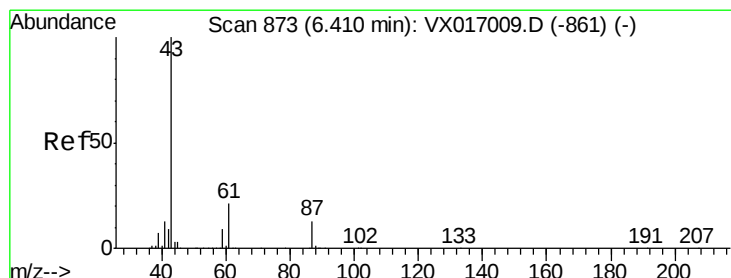
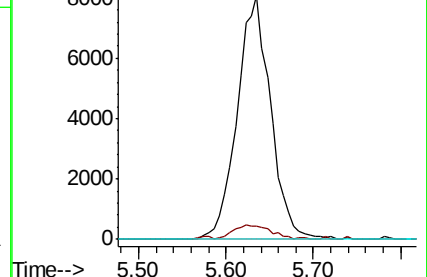
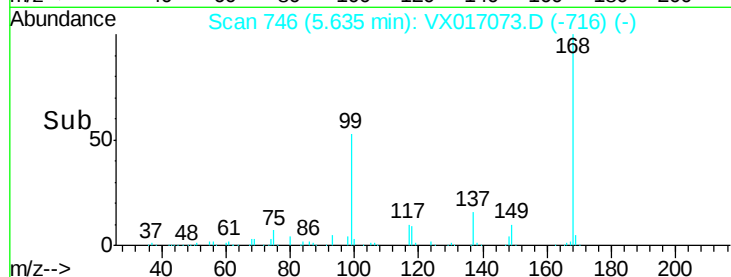
121 0.0 23.8 35.6#



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: 9.858 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.01 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

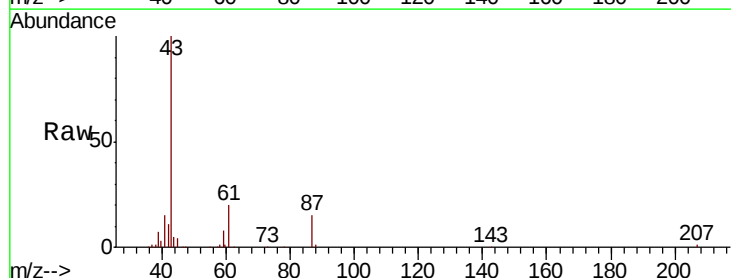
Tgt Ion: 43 Resp: 60973

Ion Ratio Lower Upper

43 100

61 21.2 16.2 24.2

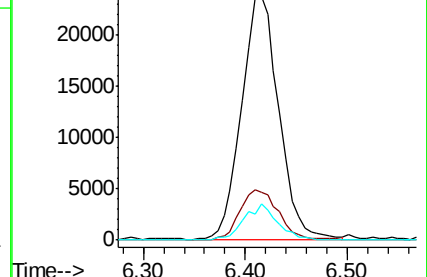
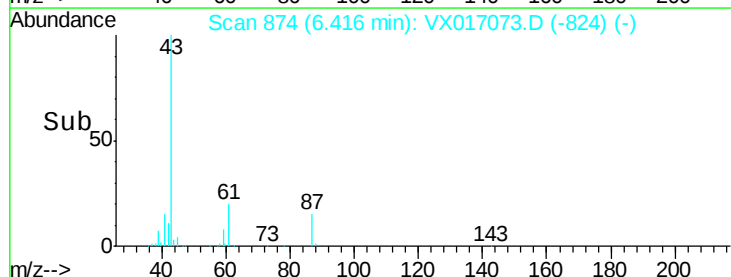
87 13.3 10.7 16.1

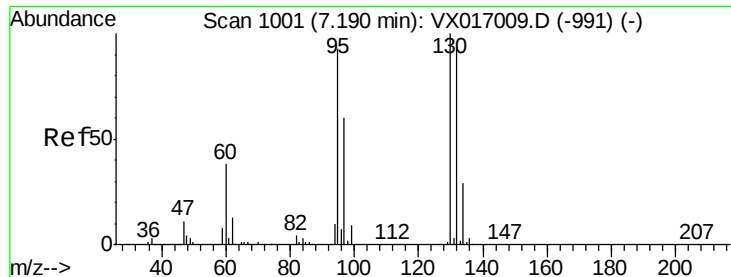


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: Below Cal

RT: 7.18 min Scan# 1000

Delta R.T. -0.01 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

Instrument :

MSVOA_X

ClientSampleId :

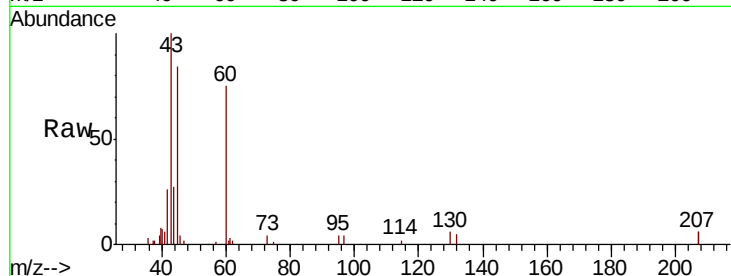
PB129852ZHE#09

Tot Ion:130 Resp: 329

Ion Ratio Lower Upper

130 100

95 60.8 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.18

200

150

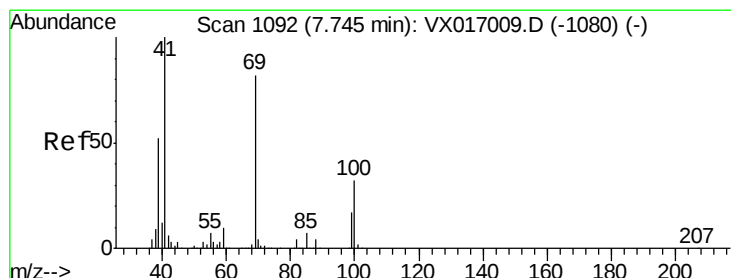
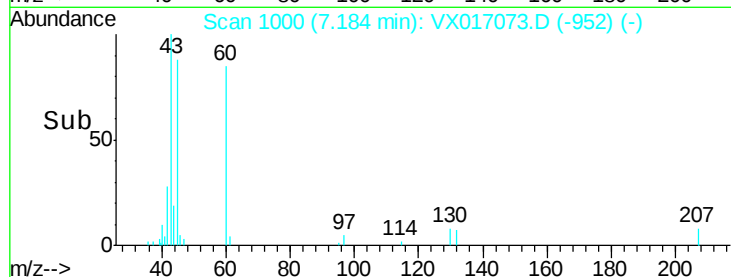
100

50

0

Time-->

7.15 7.20



#48

Methyl methacrylate

Concen: 1.370 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

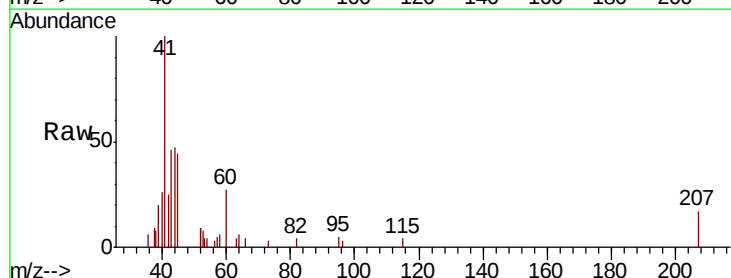
Tgt Ion: 41 Resp: 4026

Ion Ratio Lower Upper

41 100

69 0.0 65.8 98.8#

39 0.0 42.5 63.7#



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

2000

1500

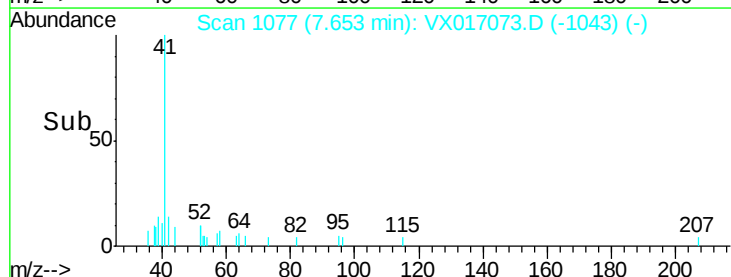
1000

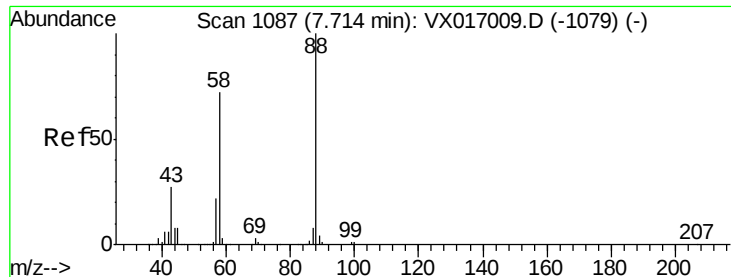
500

0

Time-->

7.55 7.60 7.65 7.70 7.75

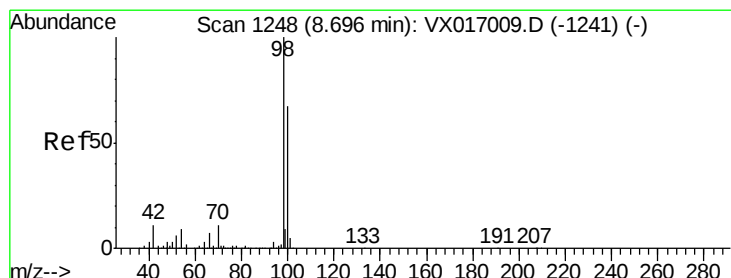
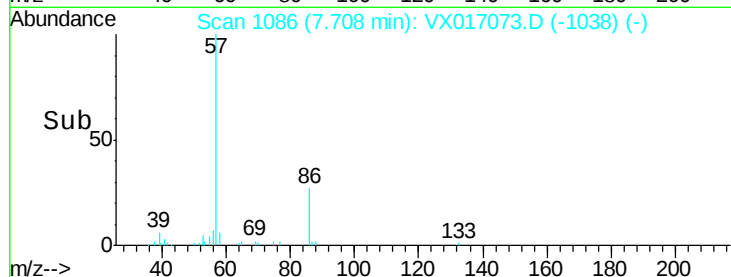
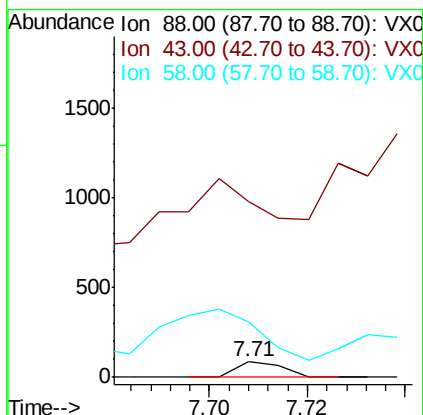
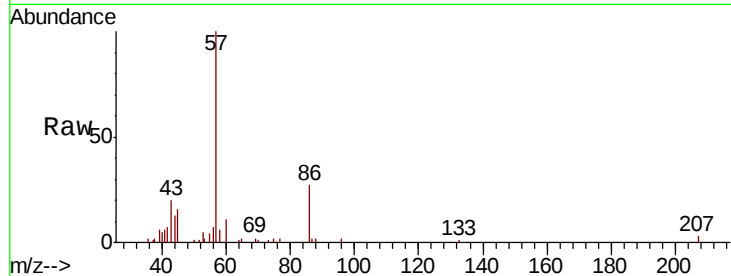




#49
1,4-Dioxane
Concen: 0.826 ug/l
RT: 7.71 min Scan# 1086
Delta R.T. -0.01 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

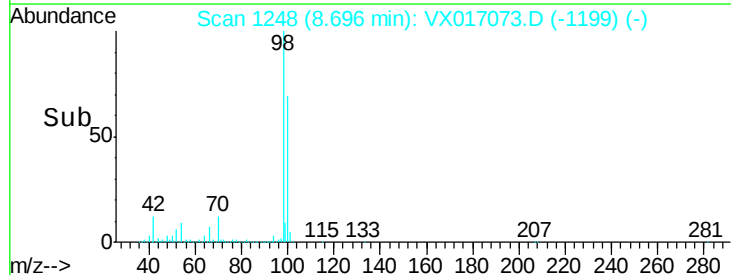
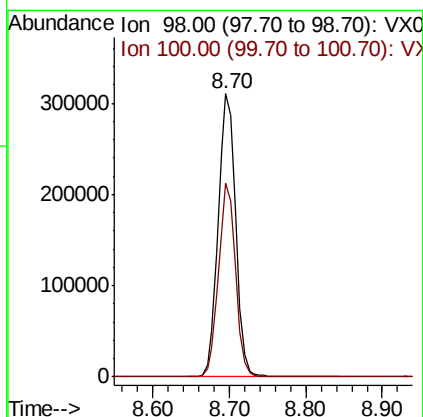
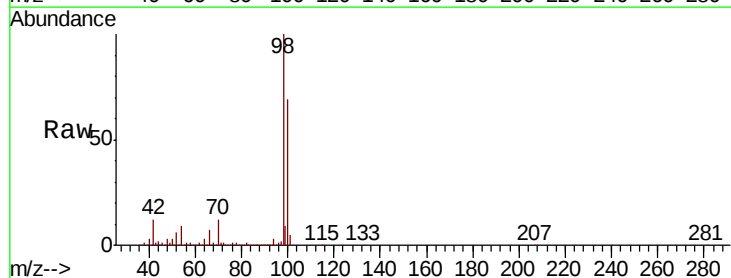
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#09

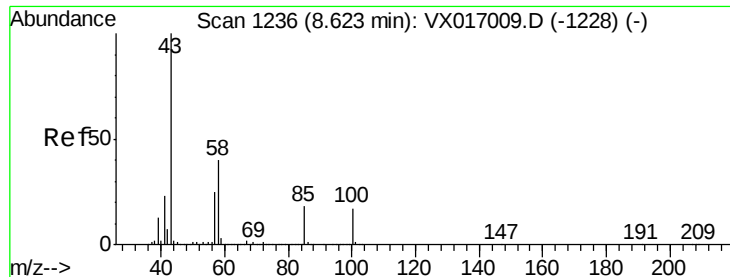
Tot Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.8#
58 1292.7 54.8 82.2#



#50
Toluene-d8
Concen: 54.056 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

Tgt Ion: 98 Resp: 490780
Ion Ratio Lower Upper
98 100
100 66.2 53.8 80.6





#51

4-Methyl-2-Pentanone

Concen: 15.937 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

Instrument :

MSVOA_X

ClientSampleId :

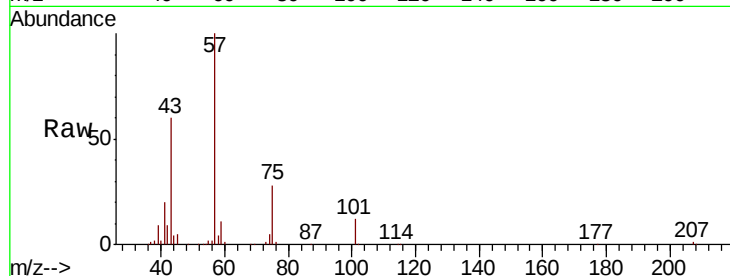
PB129852ZHE#09

Tot Ion: 43 Resp: 58756

Ion Ratio Lower Upper

43 100

58 10.3 31.9 47.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.59

40000

30000

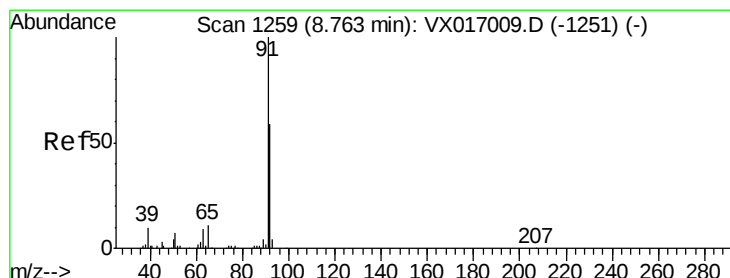
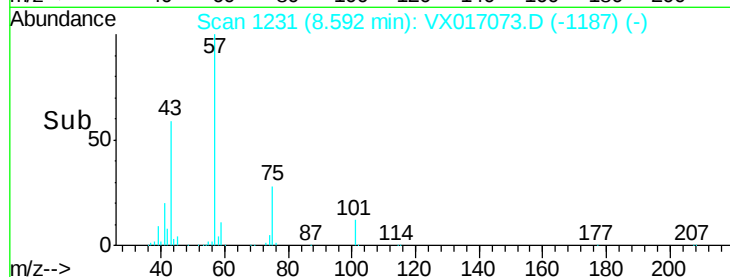
20000

10000

0

8.55 8.60 8.65 8.70

Time-->



#52

Toluene

Concen: 0.209 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX017073.D

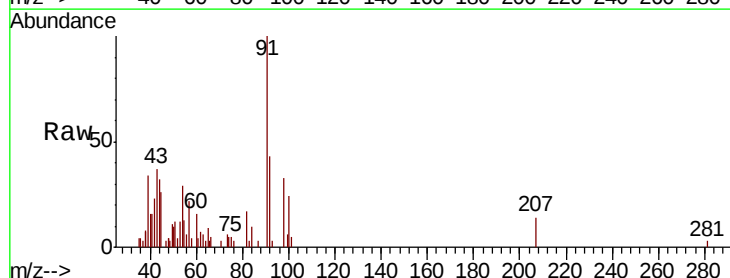
Acq: 01 Jul 2020 03:01

Tgt Ion: 92 Resp: 1404

Ion Ratio Lower Upper

92 100

91 185.3 136.9 205.3



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

8.76

2000

1500

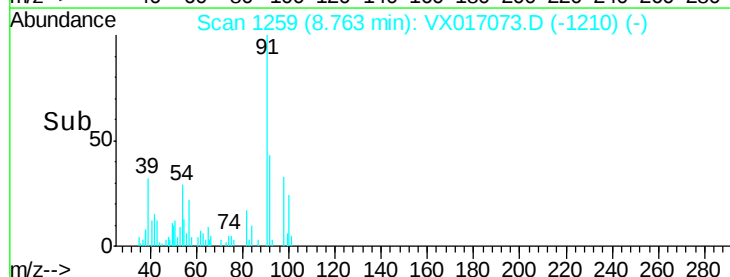
1000

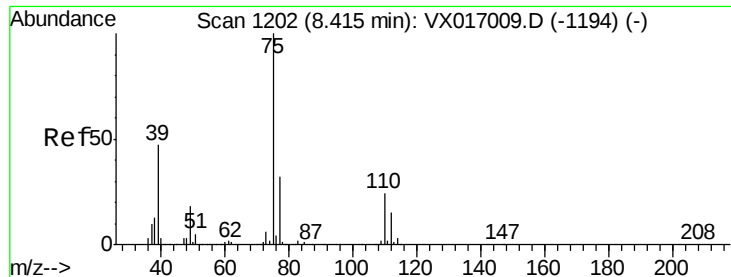
500

0

8.70 8.75 8.80

Time-->



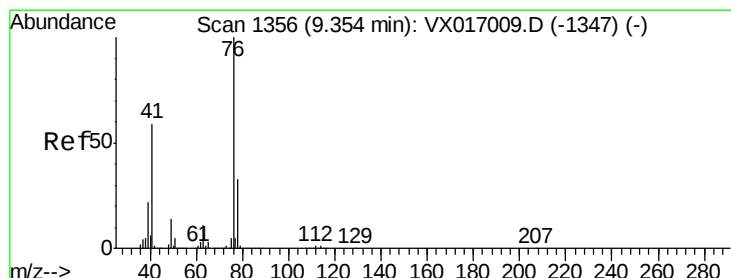
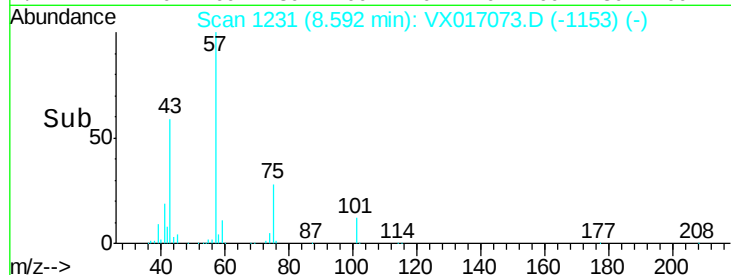
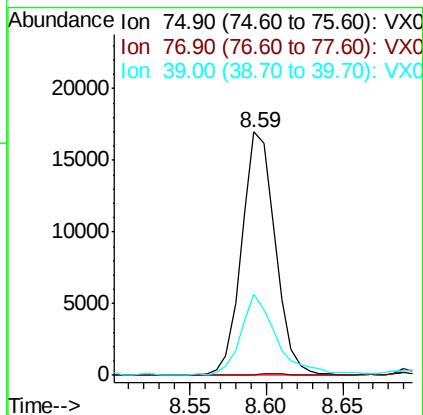
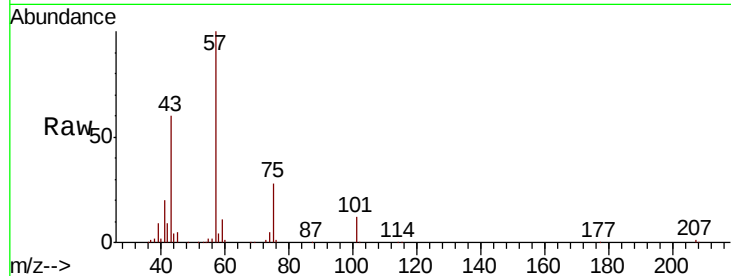


#54

cis-1,3-Dichloropropene
 Concen: 5.611 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX017073.D
 Acq: 01 Jul 2020 03:01

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#09

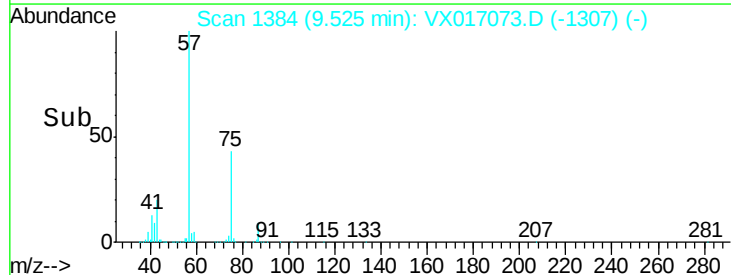
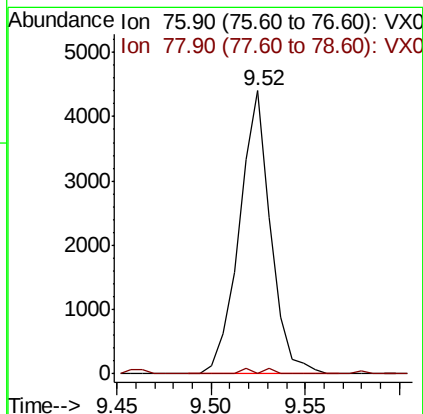
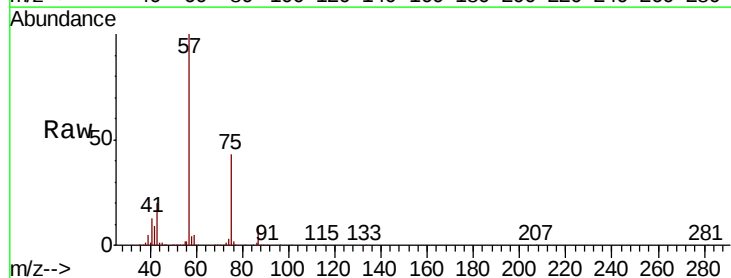
Tot Ion: 75 Resp: 25847
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 33.0 37.4 56.2#

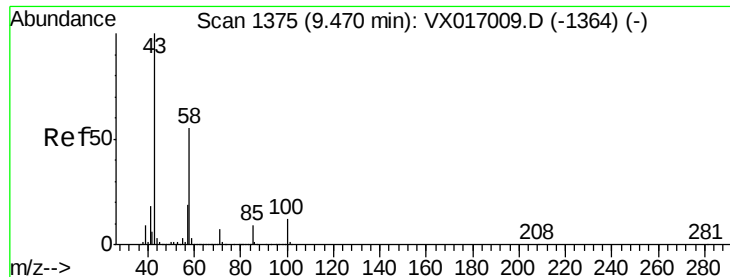


#57

1,3-Dichloropropane
 Concen: 1.090 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX017073.D
 Acq: 01 Jul 2020 03:01

Tgt Ion: 76 Resp: 5070
 Ion Ratio Lower Upper
 76 100
 78 1.2 25.9 38.9#

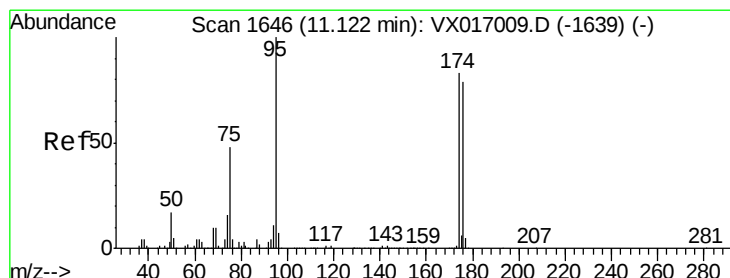
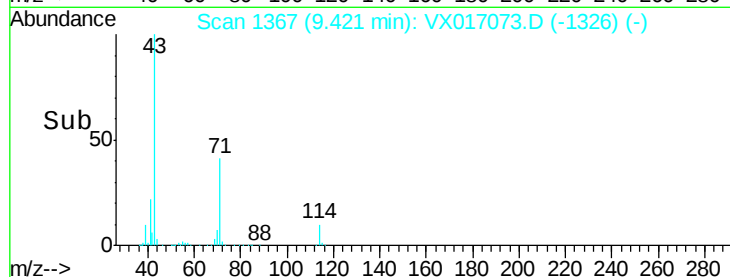
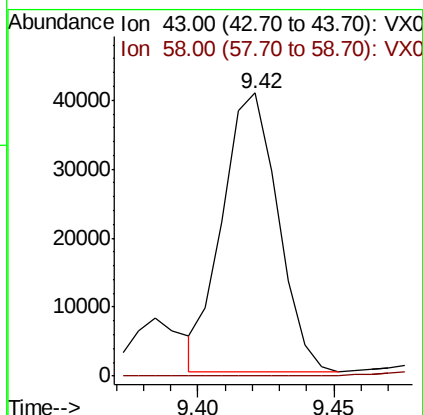
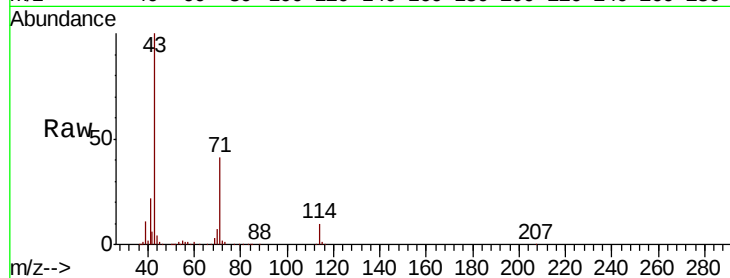




#59
2-Hexanone
Concen: 21.236 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

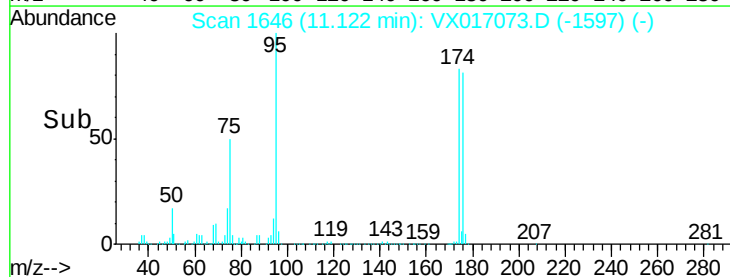
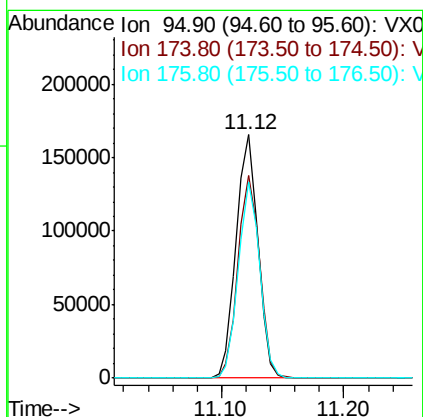
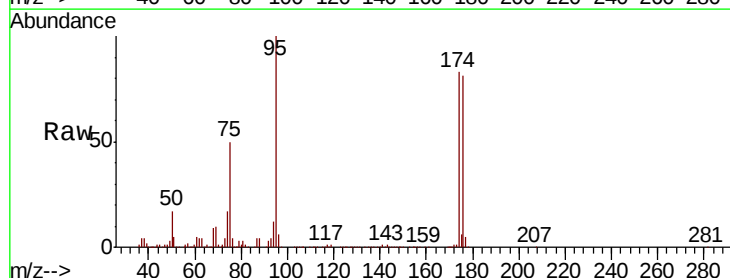
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#09

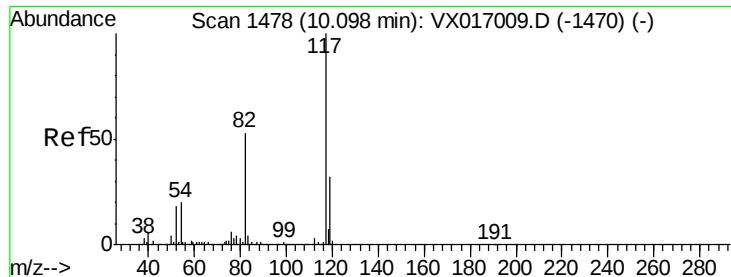
Tot Ion: 43 Resp: 57180
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 57.344 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

Tgt Ion: 95 Resp: 203522
Ion Ratio Lower Upper
95 100
174 82.9 0.0 164.0
176 79.0 0.0 157.6

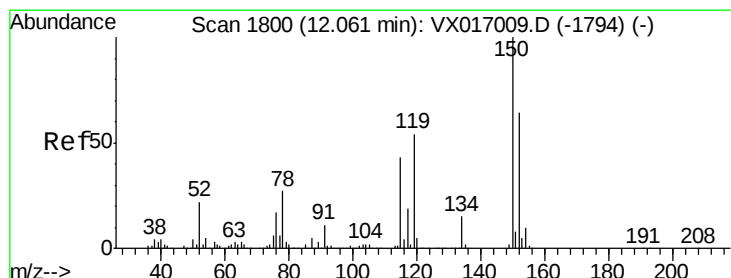
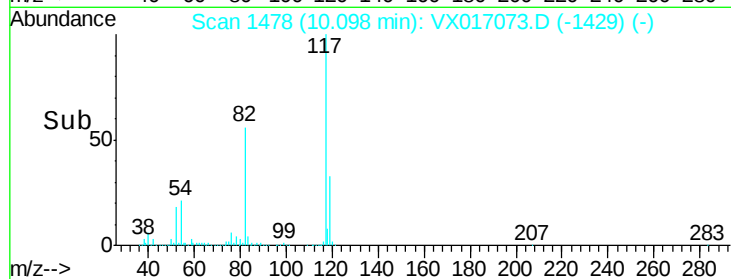
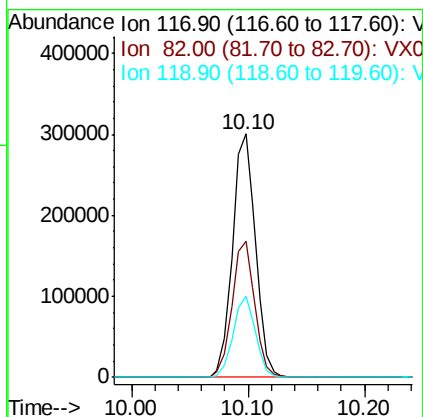
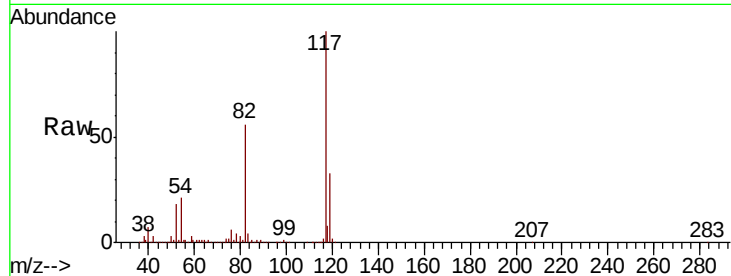




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

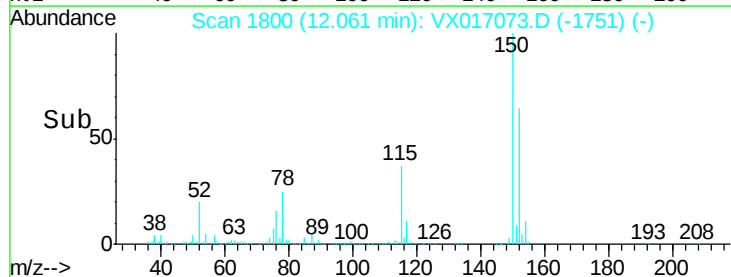
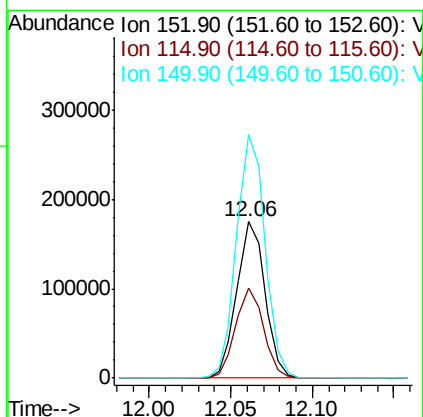
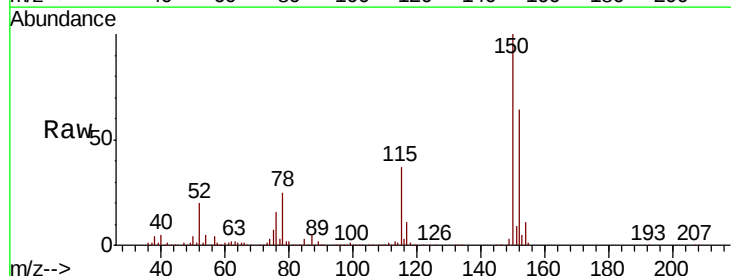
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#09

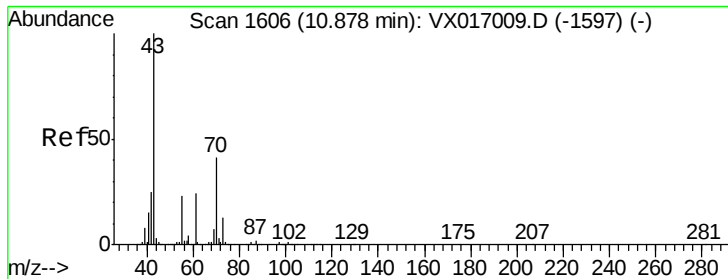
Tot Ion:117 Resp: 413296
Ion Ratio Lower Upper
117 100
82 55.7 42.6 63.8
119 33.1 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017073.D
Acq: 01 Jul 2020 03:01

Tgt Ion:152 Resp: 212215
Ion Ratio Lower Upper
152 100
115 57.0 40.9 122.7
150 157.2 0.0 351.6





#74

N-amvl acetate

Concen: 0.552 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#09

Tot Ion: 43 Resp: 3274

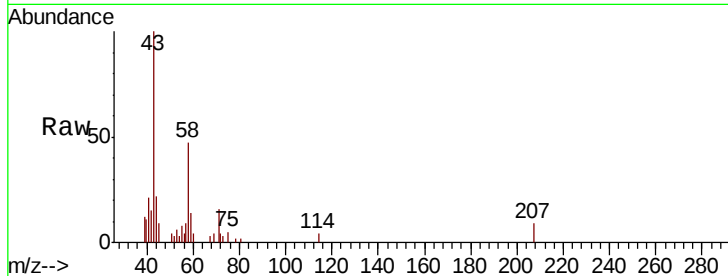
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.2#

55 12.7 19.2 28.8#

61 0.0 19.6 29.4#

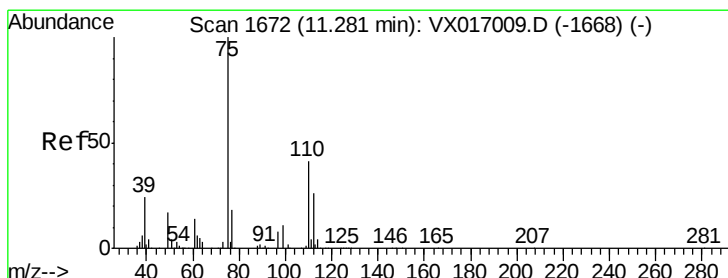
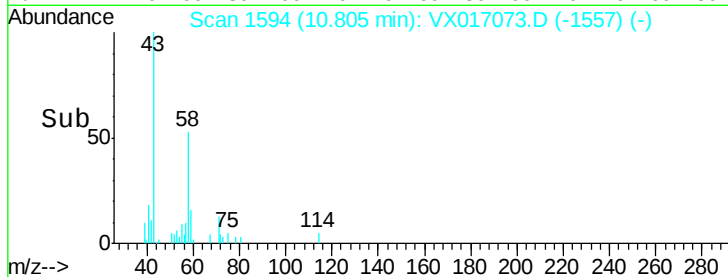
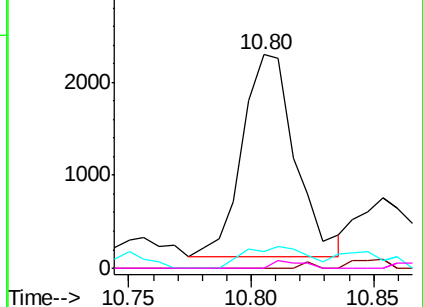


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 24.520 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017073.D

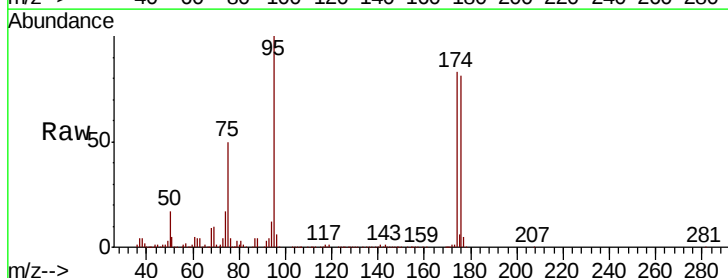
Acq: 01 Jul 2020 03:01

Tgt Ion: 75 Resp: 102323

Ion Ratio Lower Upper

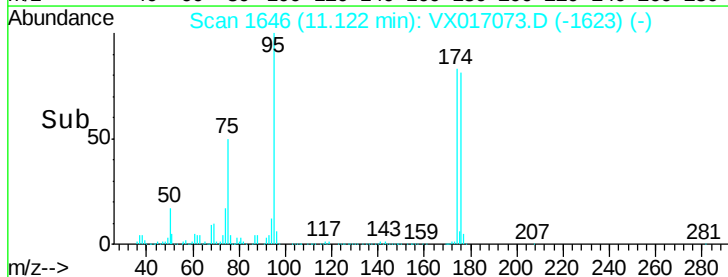
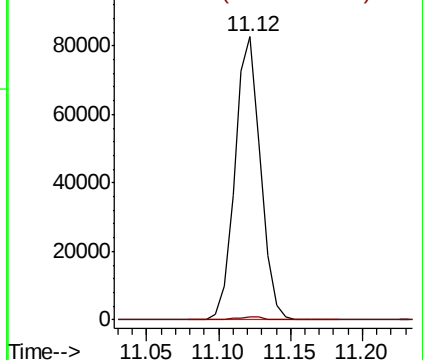
75 100

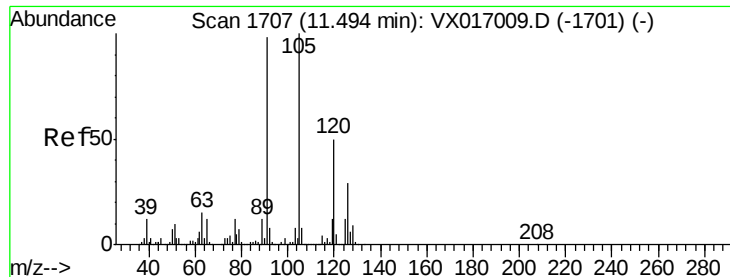
77 1.1 20.2 60.6#



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: 0.264 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

Instrument :

MSVOA_X

ClientSampleId :

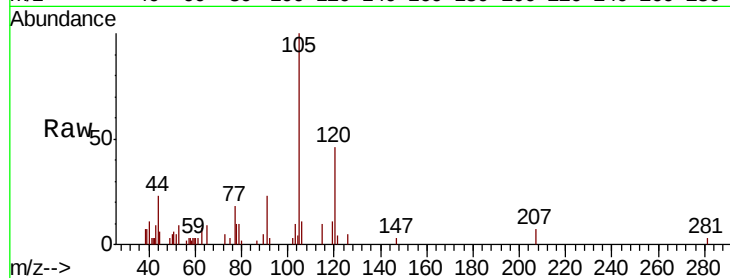
PB129852ZHE#09

Tot Ion:105 Resp: 3048

Ion Ratio Lower Upper

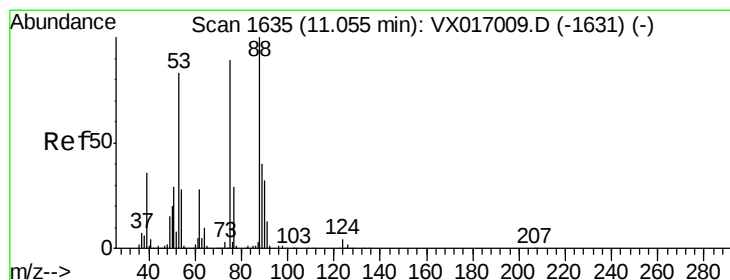
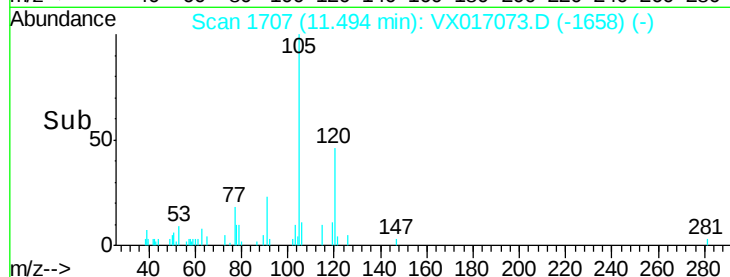
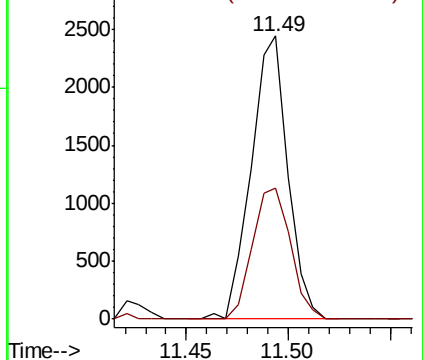
105 100

120 48.0 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 63.497 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017073.D

Acq: 01 Jul 2020 03:01

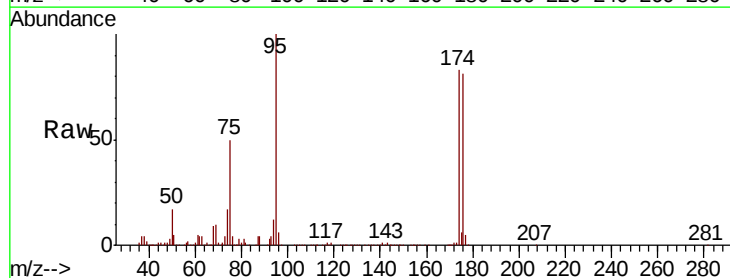
Tgt Ion: 75 Resp: 102323

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

