

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073120\
 Data File : VX017720.D
 Acq On : 31 Jul 2020 23:28
 Operator : JC/SP
 Sample : PB130661ZHE#16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130661ZHE#16

Quant Time: Aug 01 02:56:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	456976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	743547	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	805320	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	462135	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	317467	54.08	ug/l	0.00
Spiked Amount			Recovery	=	108.16%	
35) Dibromofluoromethane	5.46	113	266051	53.50	ug/l	0.00
Spiked Amount			Recovery	=	107.00%	
50) Toluene-d8	8.70	98	900919	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	
62) 4-Bromofluorobenzene	11.12	95	432018	60.17	ug/l	0.00
Spiked Amount			Recovery	=	120.34%	

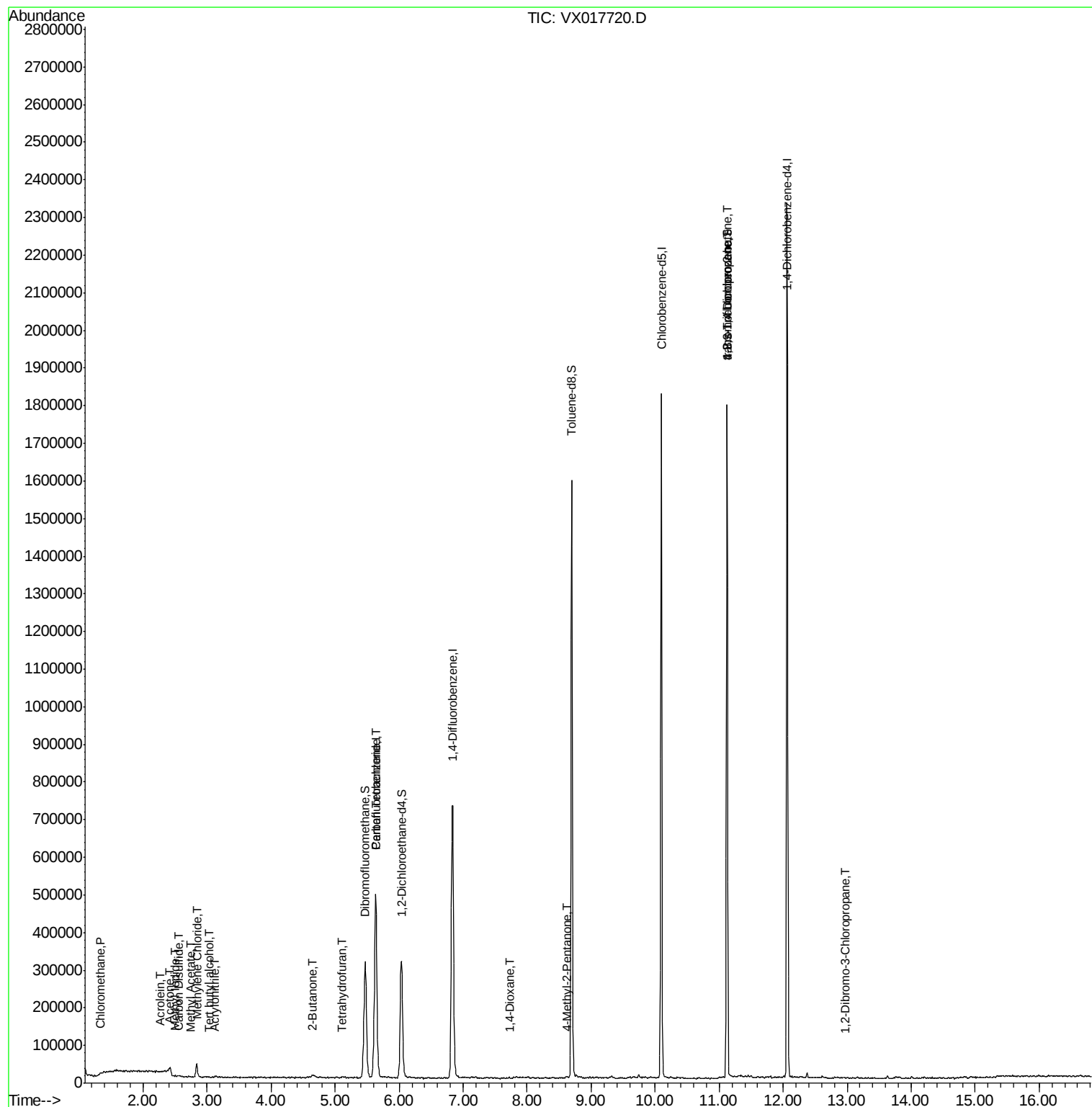
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	272	Below Cal	#	42
3) Chloromethane	1.32	50	930	0.530	ug/l	94
5) Bromomethane	1.64	94	553	Below Cal	#	70
6) Chloroethane	1.72	64	684	Below Cal	#	44
8) Diethyl Ether	2.04	74	502	Below Cal		55
10) Methyl Iodide	2.50	142	1515	0.239	ug/l #	82
11) Tert butyl alcohol	3.03	59	1311	1.060	ug/l #	72
13) Acrolein	2.27	56	718	4.896	ug/l #	37
15) Acrylonitrile	3.12	53	1220	0.457	ug/l #	56
16) Acetone	2.42	43	12529	4.849	ug/l	97
17) Carbon Disulfide	2.55	76	3664	0.255	ug/l #	89
18) Methyl Acetate	2.75	43	1591	0.261	ug/l #	57
20) Methylene Chloride	2.84	84	18668	2.620	ug/l	95
25) 2-Butanone	4.65	43	2133	0.581	ug/l #	62
29) Tetrahydrofuran	5.10	42	1829	0.804	ug/l #	79
38) Carbon Tetrachloride	5.64	117	45085	5.206	ug/l #	17
49) 1,4-Dioxane	7.73	88	175	1.430	ug/l #	10
51) 4-Methyl-2-Pentanone	8.62	43	3343	0.435	ug/l	90
76) 1,2,3-Trichloropropane	11.12	75	222670	23.423	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	222670	59.022	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	87	2.606	ug/l #	1

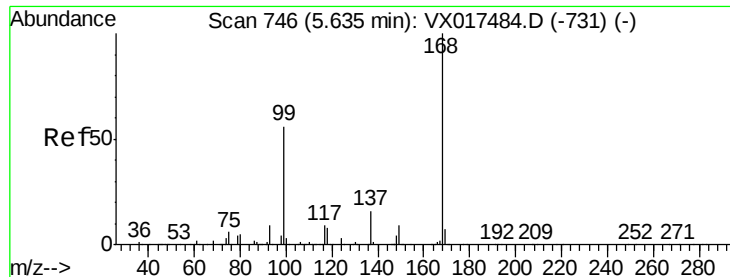
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

Instrument :

MSVOA_X

ClientSampleId :

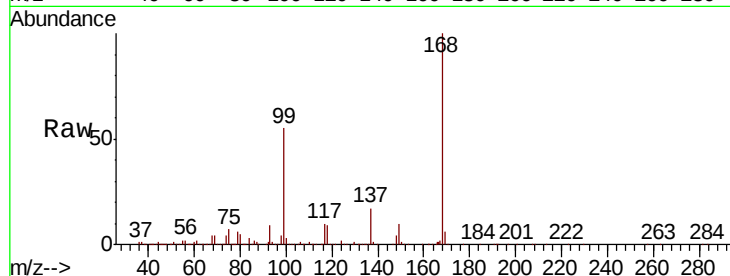
PB130661ZHE#16

Tot Ion:168 Resp: 456976

Ion Ratio Lower Upper

168 100

99 55.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

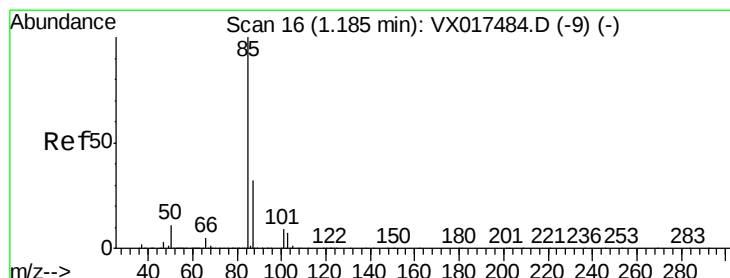
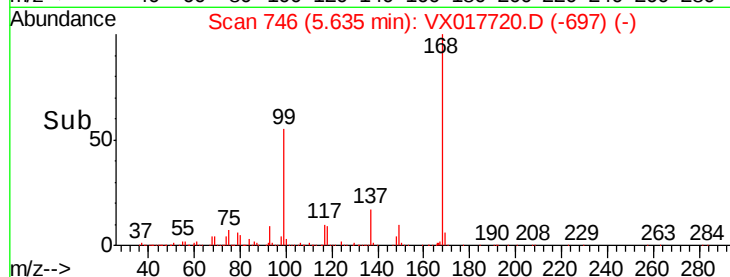
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX017720.D

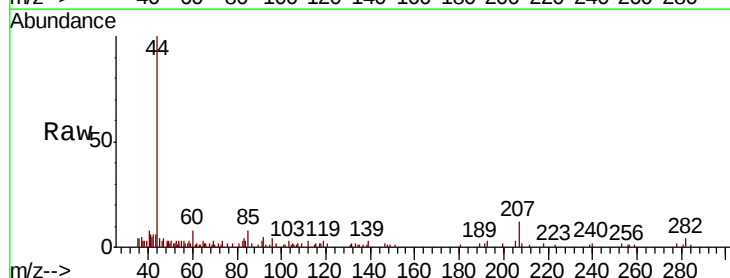
Acq: 31 Jul 2020 23:28

Tgt Ion: 85 Resp: 272

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

400

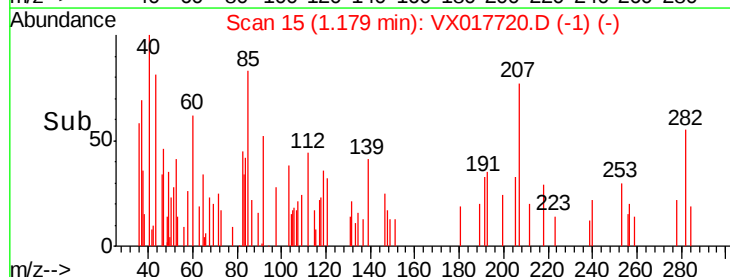
300

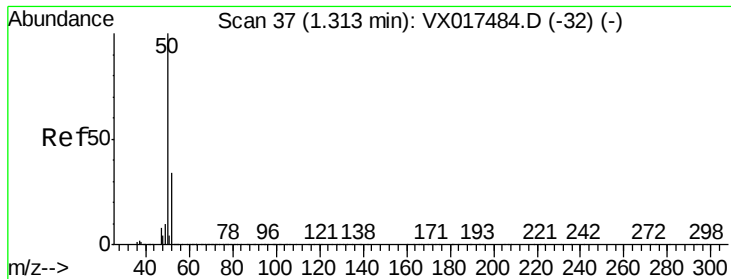
200

100

0

Time-->





#3

Chloromethane

Concen: 0.530 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

Instrument :

MSVOA_X

ClientSampleId :

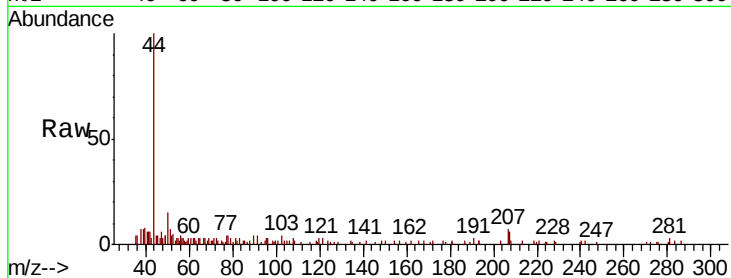
PB130661ZHE#16

Tot Ion: 50 Resp: 930

Ion Ratio Lower Upper

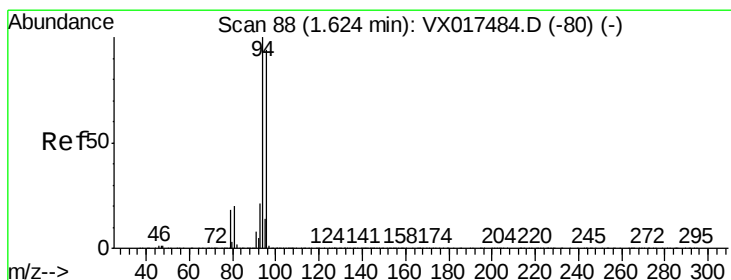
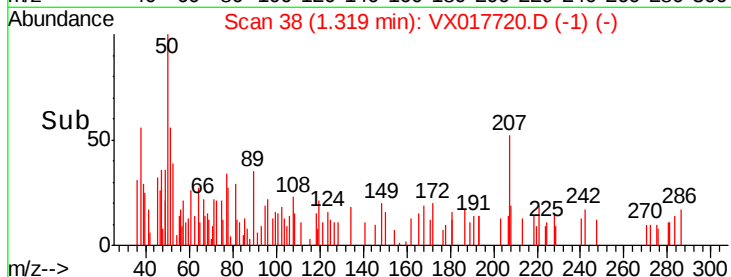
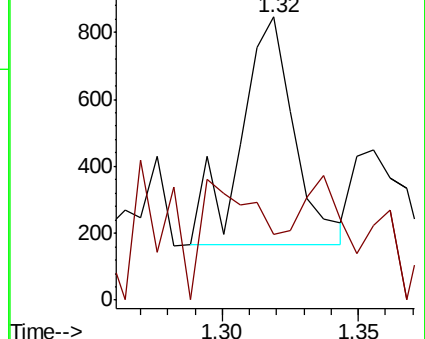
50 100

52 28.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017720.D

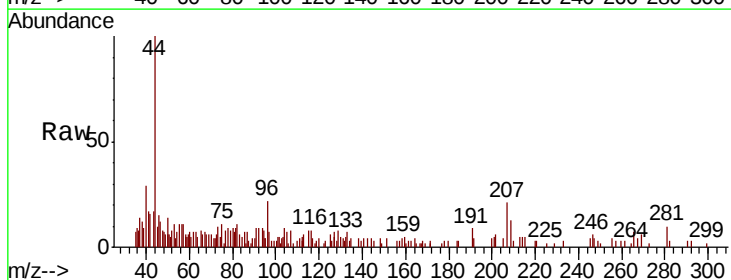
Acq: 31 Jul 2020 23:28

Tgt Ion: 94 Resp: 553

Ion Ratio Lower Upper

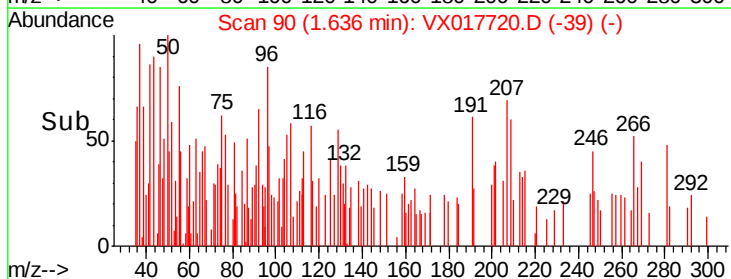
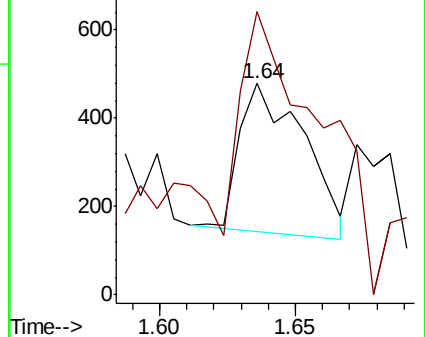
94 100

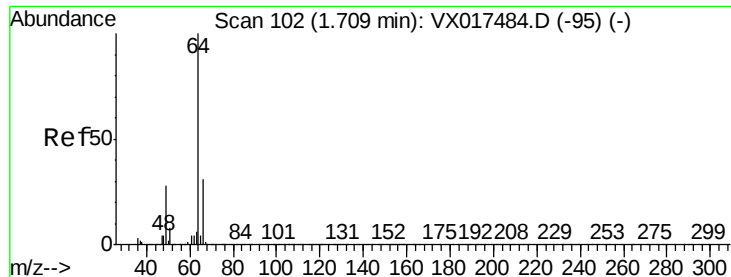
96 121.7 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

Instrument :

MSVOA_X

ClientSampleId :

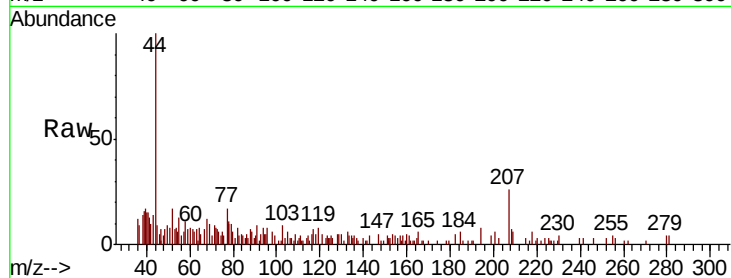
PB130661ZHE#16

Tot Ion: 64 Resp: 684

Ion Ratio Lower Upper

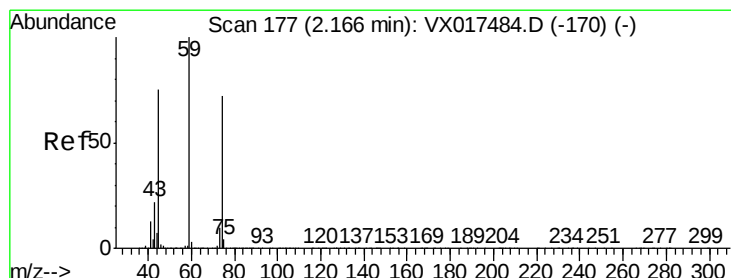
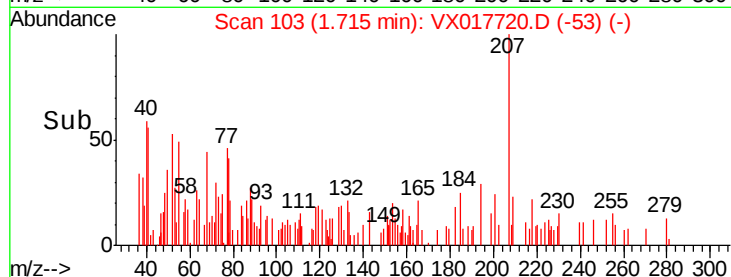
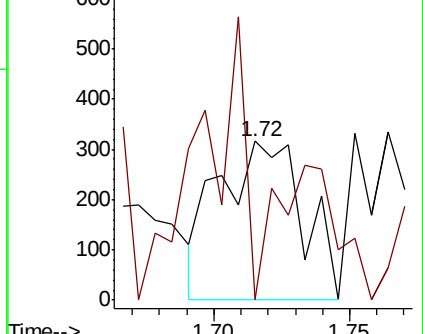
64 100

66 0.0 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.04 min Scan# 156

Delta R.T. -0.13 min

Lab File: VX017720.D

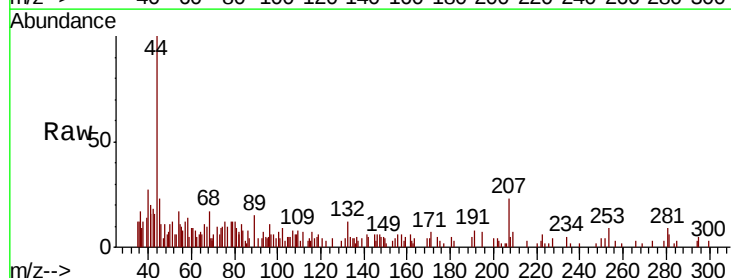
Acq: 31 Jul 2020 23:28

Tgt Ion: 74 Resp: 502

Ion Ratio Lower Upper

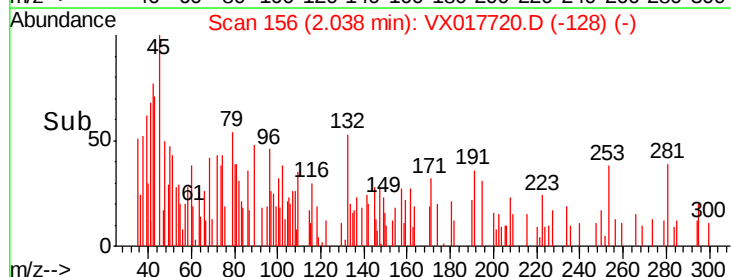
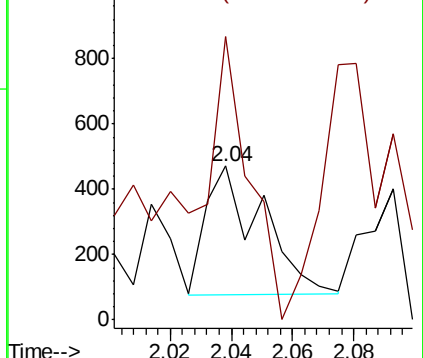
74 100

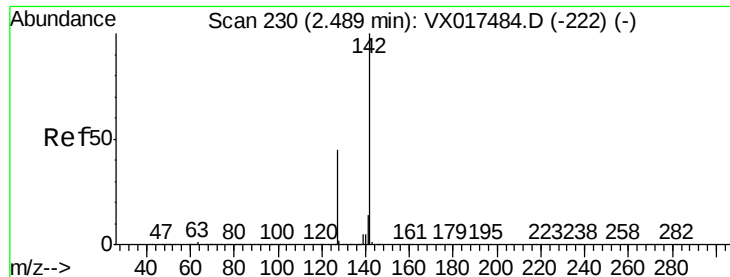
45 147.6 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 0.239 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

Instrument :

MSVOA_X

ClientSampleId :

PB130661ZHE#16

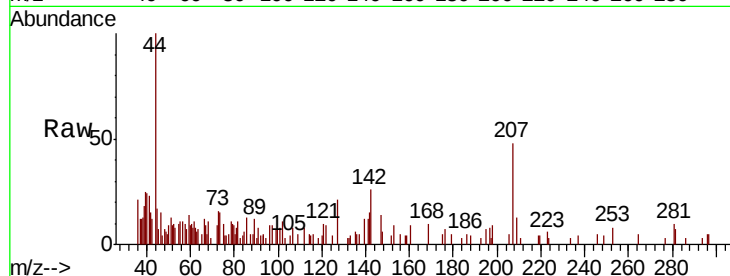
Tot Ion:142 Resp: 1515

Ion Ratio Lower Upper

142 100

127 60.1 35.9 53.9#

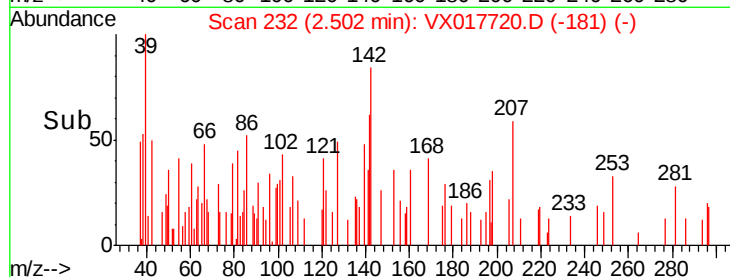
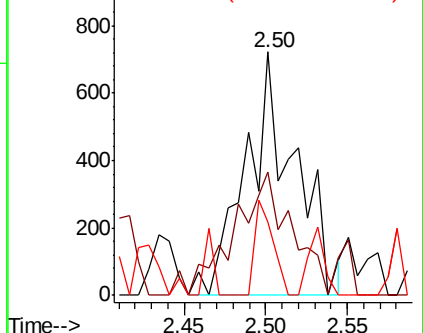
141 14.8 11.4 17.0



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.060 ug/l

RT: 3.03 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX017720.D

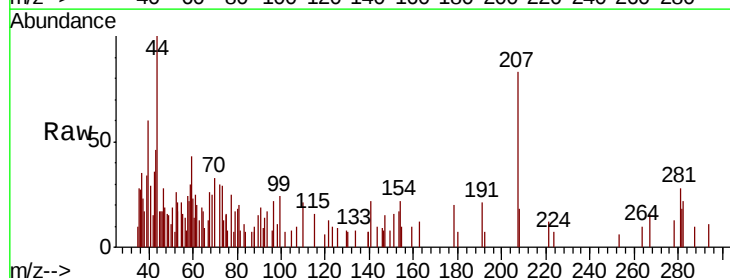
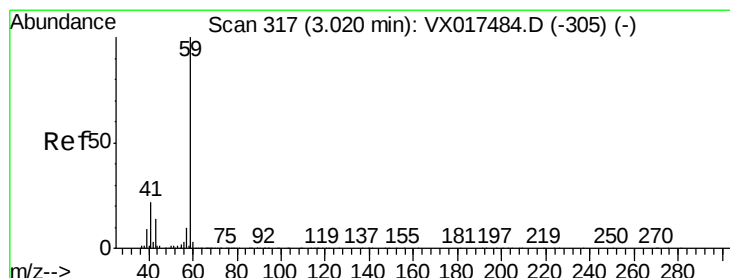
Acq: 31 Jul 2020 23:28

Tgt Ion: 59 Resp: 1311

Ion Ratio Lower Upper

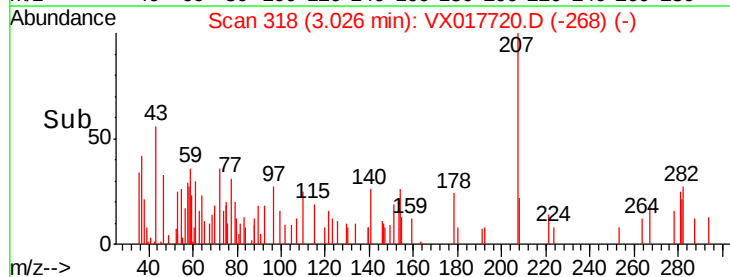
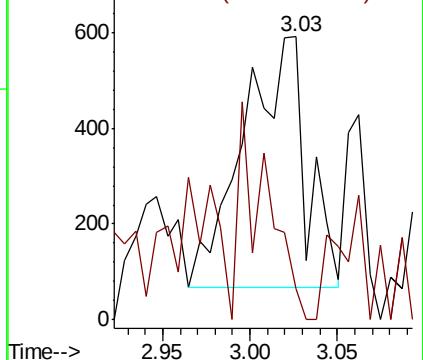
59 100

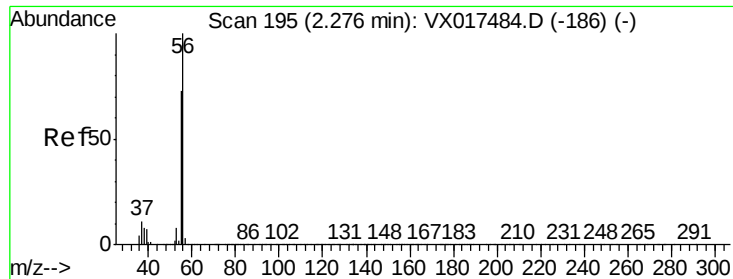
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 4.896 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

Instrument :

MSVOA_X

ClientSampleId :

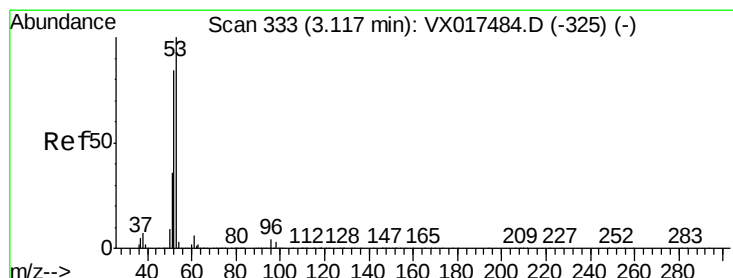
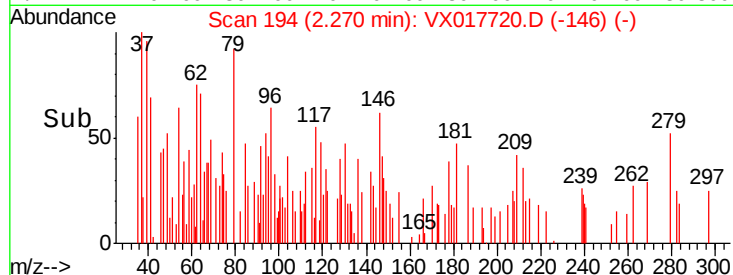
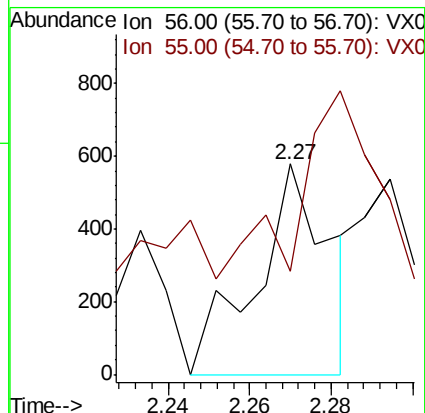
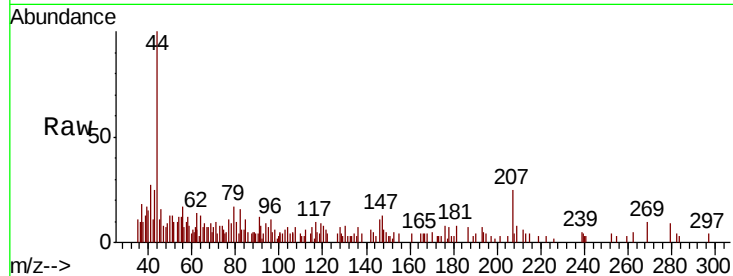
PB130661ZHE#16

Tot Ion: 56 Resp: 718

Ion Ratio Lower Upper

56 100

55 124.0 57.4 86.2#



#15

Acrylonitrile

Concen: 0.457 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

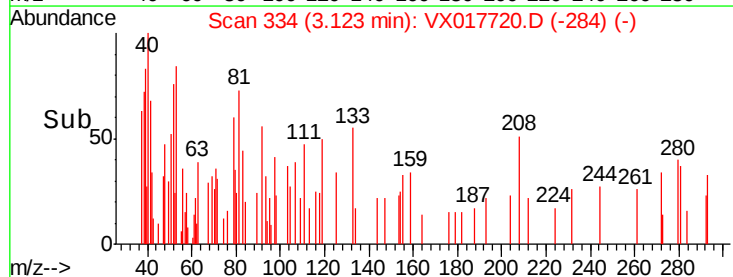
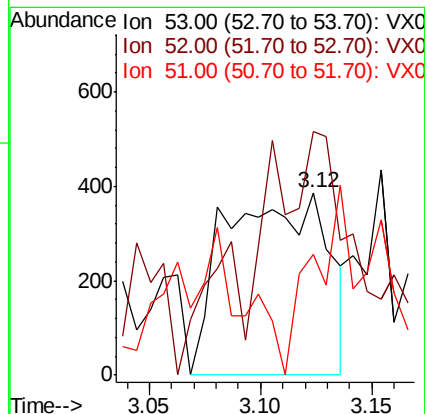
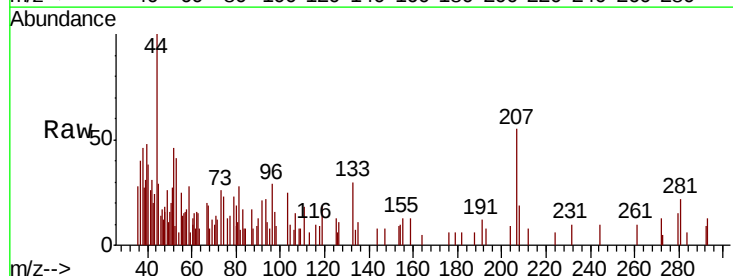
Tgt Ion: 53 Resp: 1220

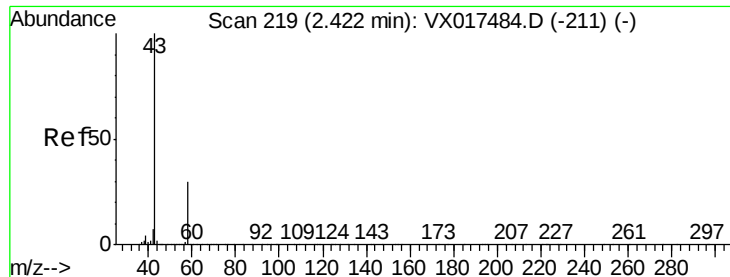
Ion Ratio Lower Upper

53 100

52 31.2 66.6 99.8#

51 44.0 29.4 44.2





#16

Acetone

Concen: 4.849 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

Instrument :

MSVOA_X

ClientSampleId :

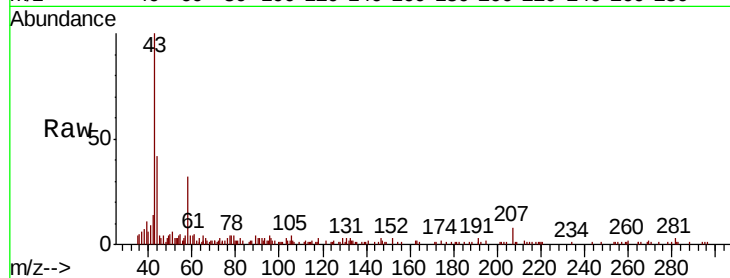
PB130661ZHE#16

Tot Ion: 43 Resp: 12529

Ion Ratio Lower Upper

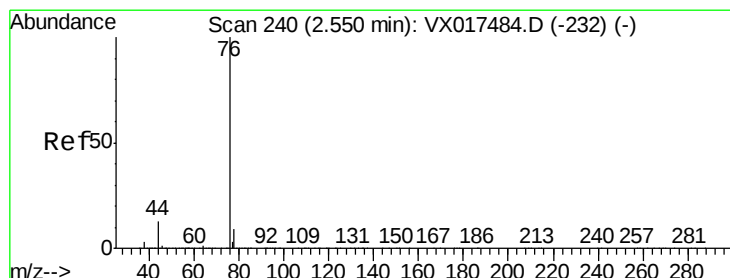
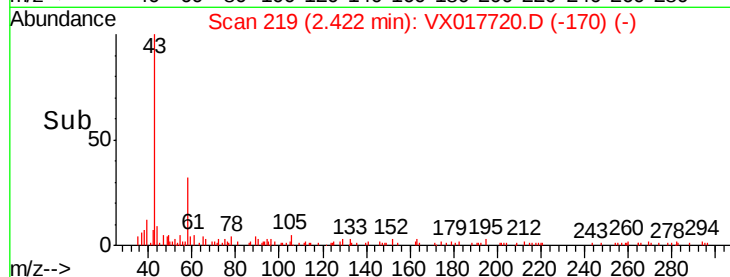
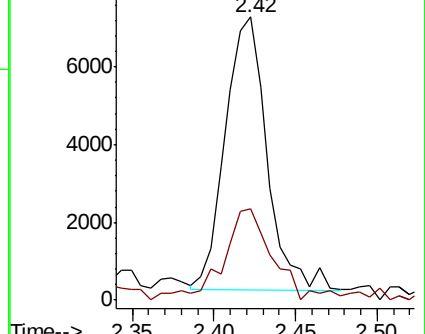
43 100

58 31.8 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.255 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX017720.D

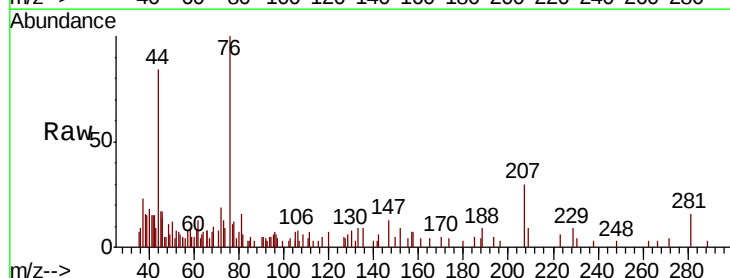
Acq: 31 Jul 2020 23:28

Tgt Ion: 76 Resp: 3664

Ion Ratio Lower Upper

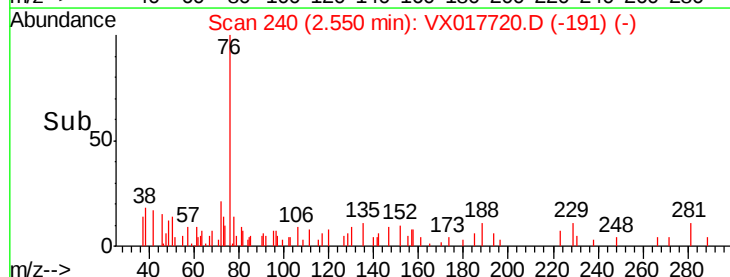
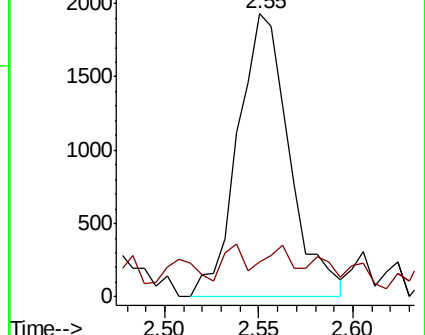
76 100

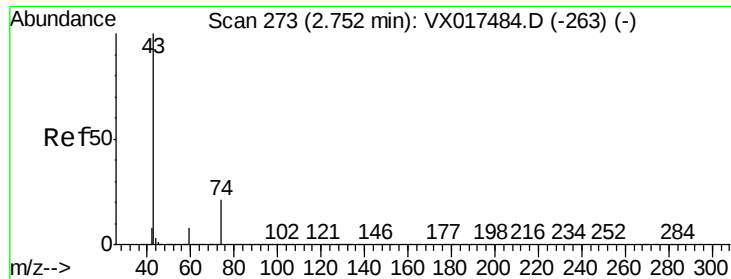
78 5.2 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

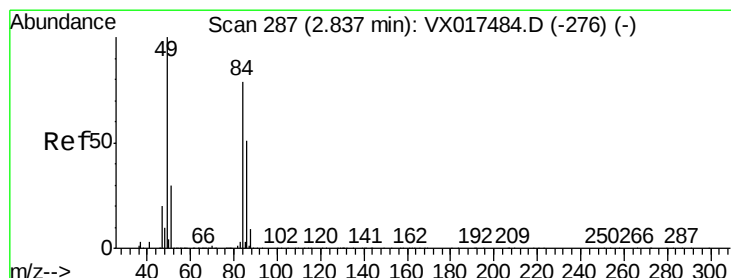
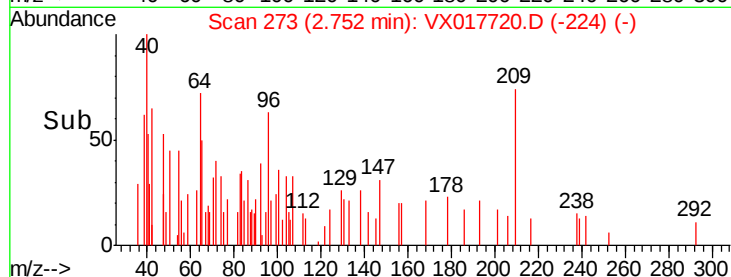
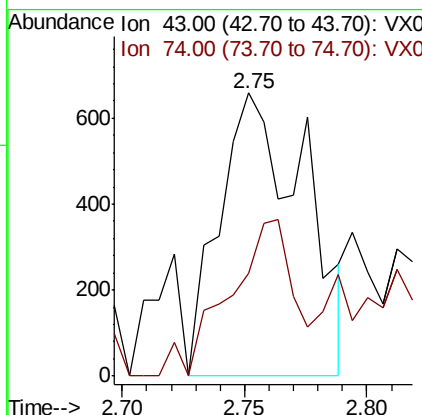
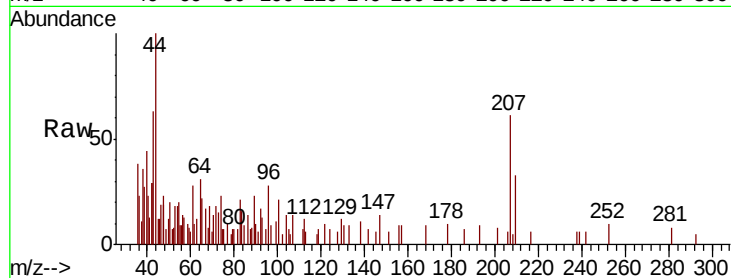




#18
Methvl Acetate
Concen: 0.261 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX017720.D
Acq: 31 Jul 2020 23:28

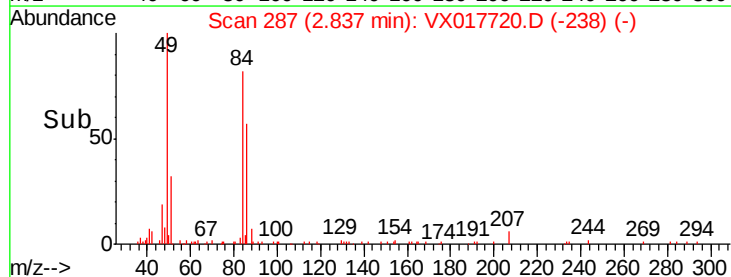
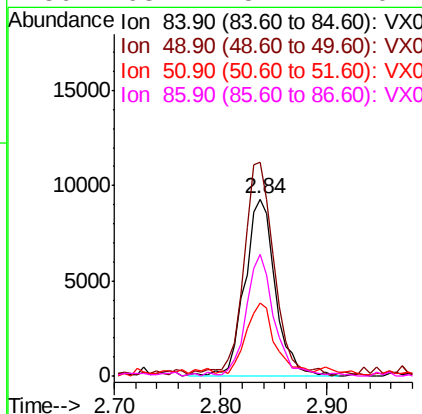
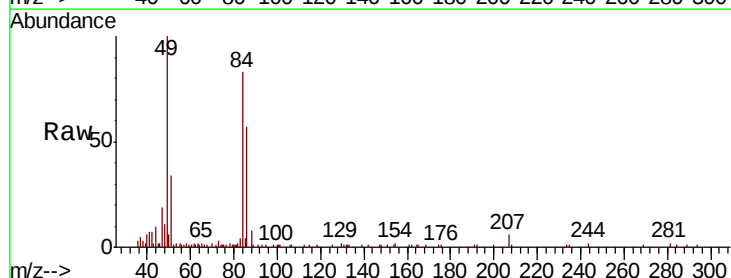
Instrument :
MSVOA_X
ClientSampleId :
PB130661ZHE#16

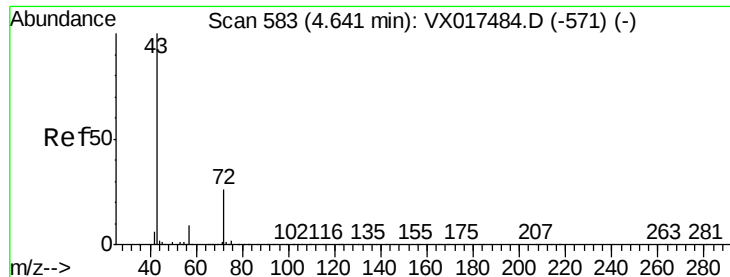
Tot Ion: 43 Resp: 1591
Ion Ratio Lower Upper
43 100
74 42.6 17.5 26.3#



#20
Methylene Chloride
Concen: 2.620 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017720.D
Acq: 31 Jul 2020 23:28

Tgt Ion: 84 Resp: 18668
Ion Ratio Lower Upper
84 100
49 119.8 100.3 150.5
51 39.5 30.5 45.7
86 68.2 51.1 76.7

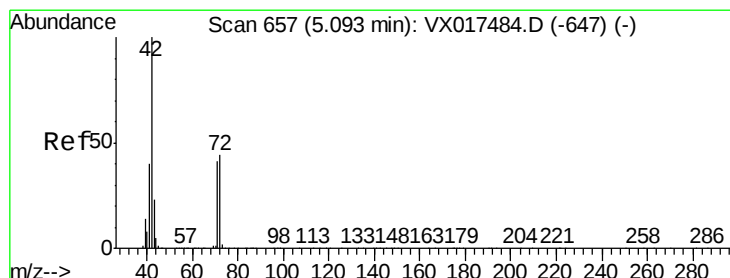
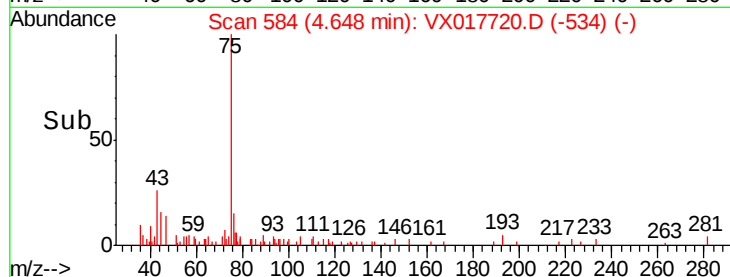
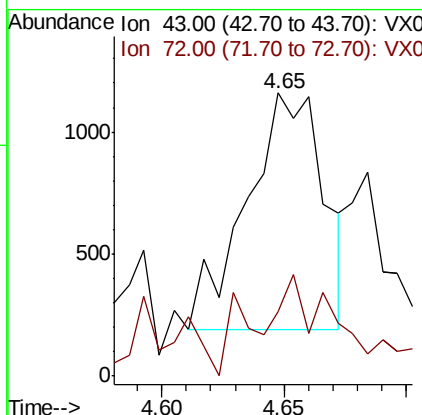
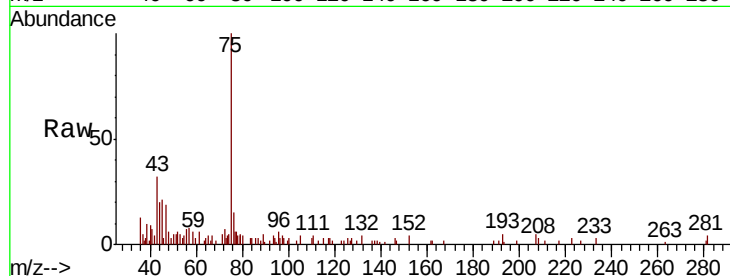




#25
2-Butanone
Concen: 0.581 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017720.D
Acq: 31 Jul 2020 23:28

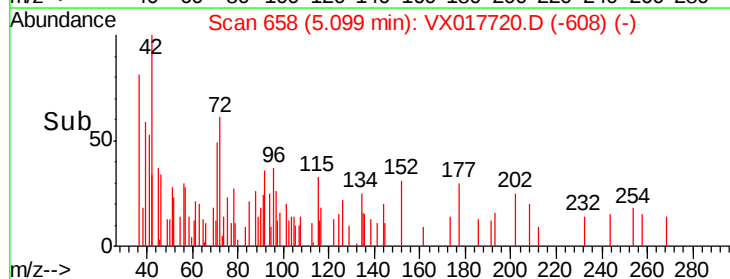
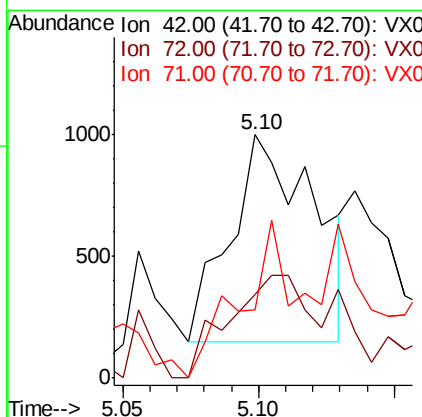
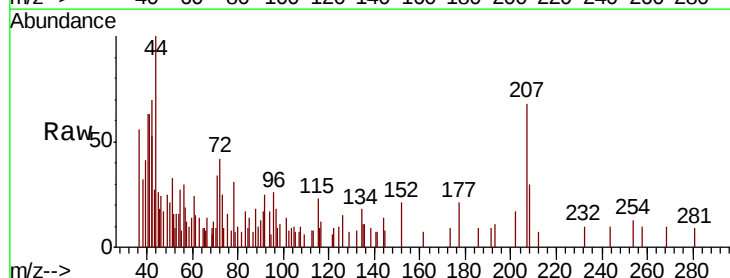
Instrument :
MSVOA_X
ClientSampleId :
PB130661ZHE#16

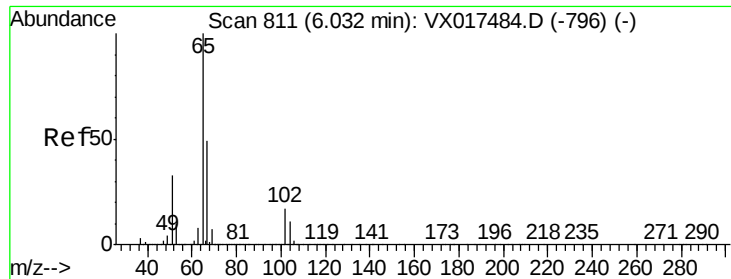
Tot Ion: 43 Resp: 2133
Ion Ratio Lower Upper
43 100
72 5.0 19.0 28.4#



#29
Tetrahydrofuran
Concen: 0.804 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX017720.D
Acq: 31 Jul 2020 23:28

Tgt Ion: 42 Resp: 1829
Ion Ratio Lower Upper
42 100
72 60.0 35.5 53.3#
71 52.8 33.0 49.4#





#33

1,2-Dichloroethane-d4

Concen: 54.082 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

Instrument :

MSVOA_X

ClientSampleId :

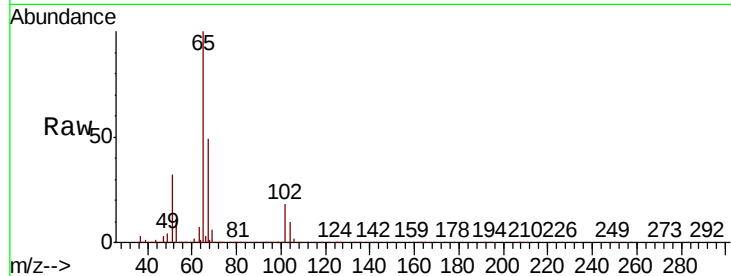
PB130661ZHE#16

Tot Ion: 65 Resp: 317467

Ion Ratio Lower Upper

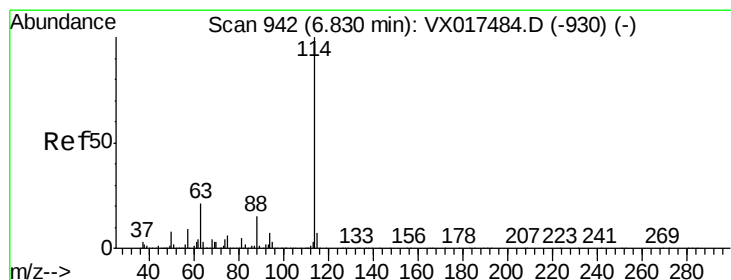
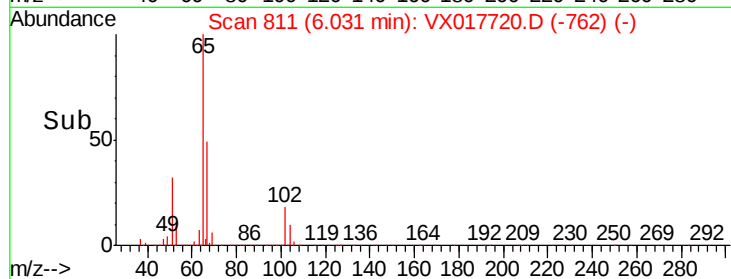
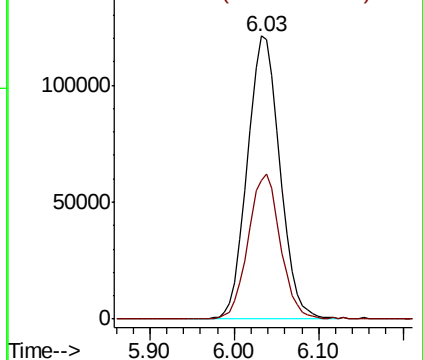
65 100

67 50.8 0.0 102.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

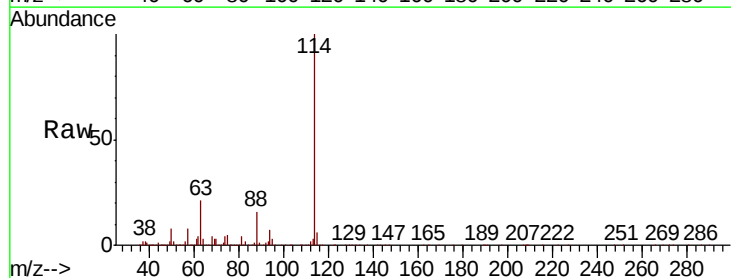
Tgt Ion: 114 Resp: 743547

Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.6

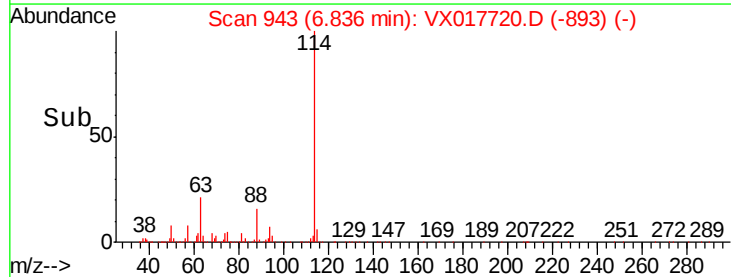
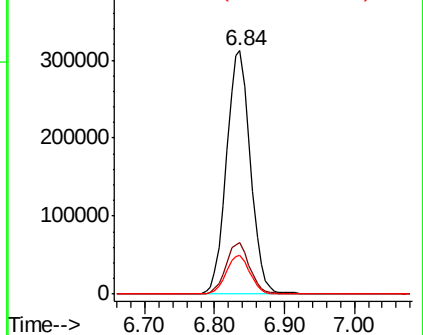
88 15.7 0.0 33.4

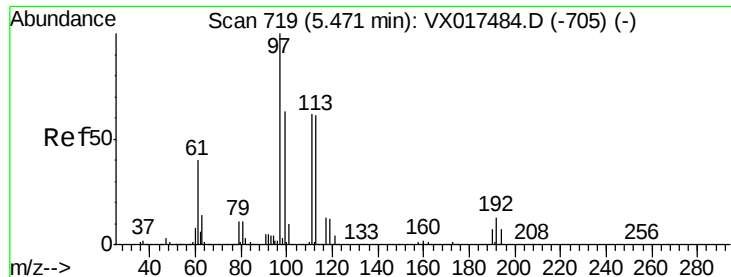


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

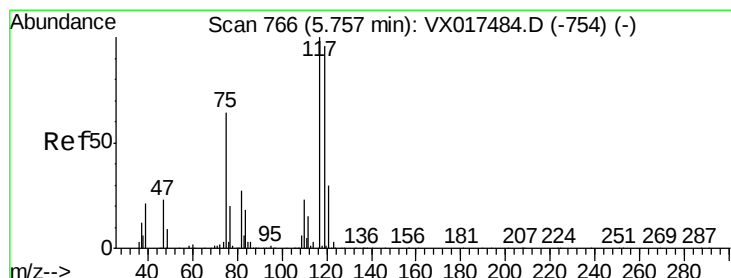
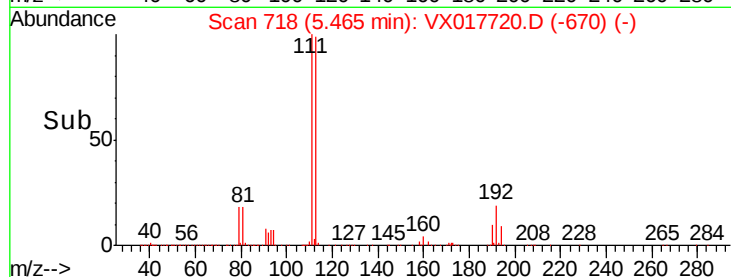
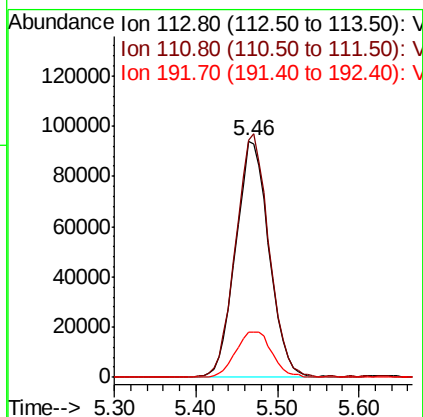
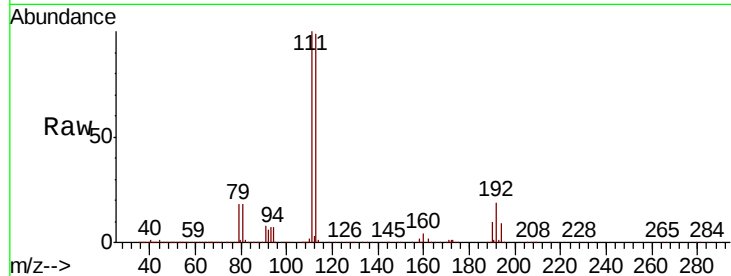




#35
Dibromofluoromethane
Concen: 53.500 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.01 min
Lab File: VX017720.D
Acq: 31 Jul 2020 23:28

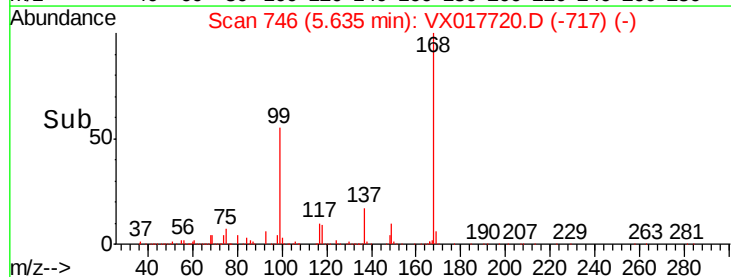
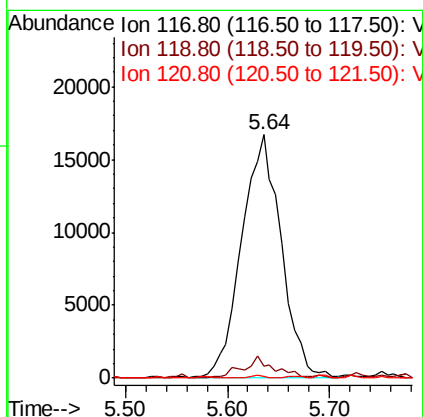
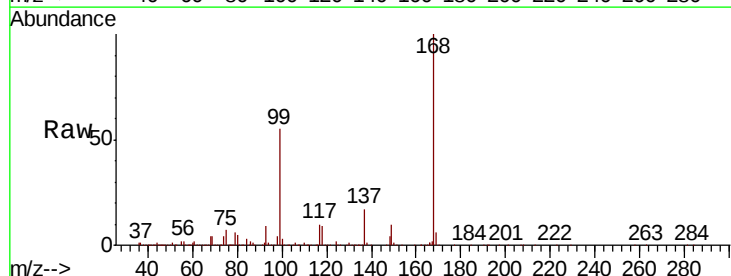
Instrument :
MSVOA_X
ClientSampleId :
PB130661ZHE#16

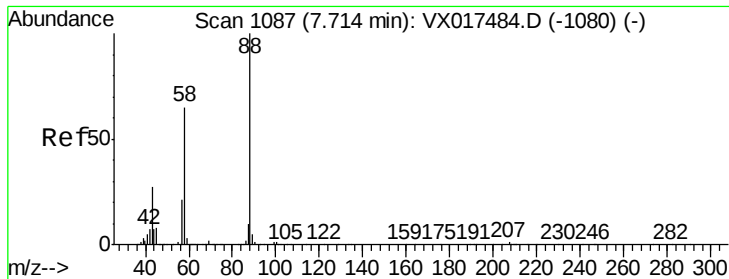
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.7	121.1
192	21.2	16.9	25.3



#38
Carbon Tetrachloride
Concen: 5.206 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.12 min
Lab File: VX017720.D
Acq: 31 Jul 2020 23:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	75.4	113.0#
121	0.7	24.3	36.5#





#49

1,4-Dioxane

Concen: 1.430 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

Instrument :

MSVOA_X

ClientSampleId :

PB130661ZHE#16

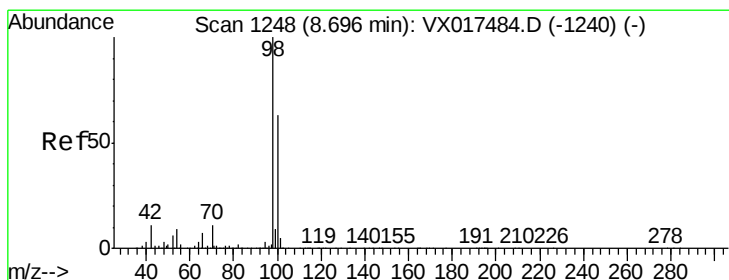
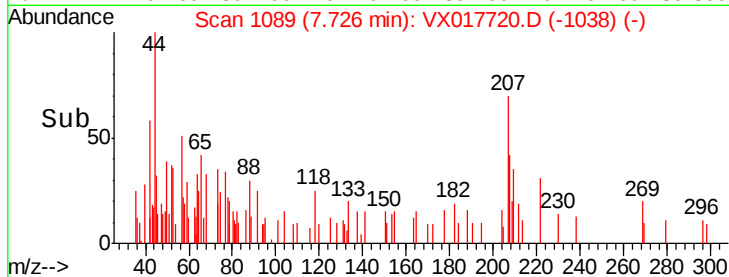
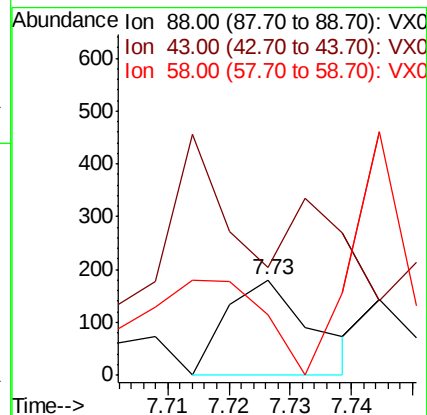
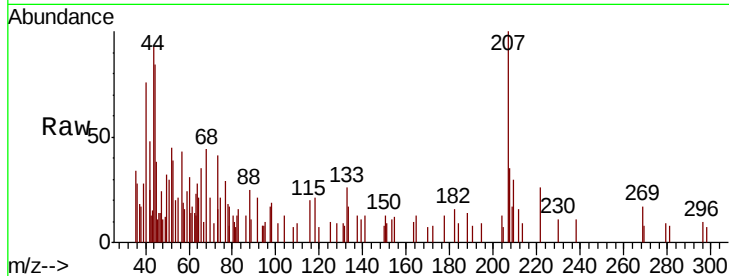
Tot Ion: 88 Resp: 175

Ion Ratio Lower Upper

88 100

43 120.0 27.8 41.6#

58 125.1 58.3 87.5#



#50

Toluene-d8

Concen: 50.220 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017720.D

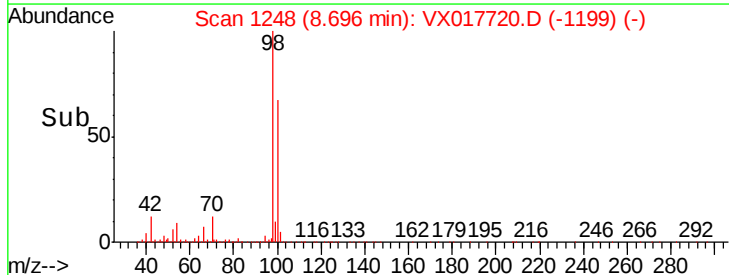
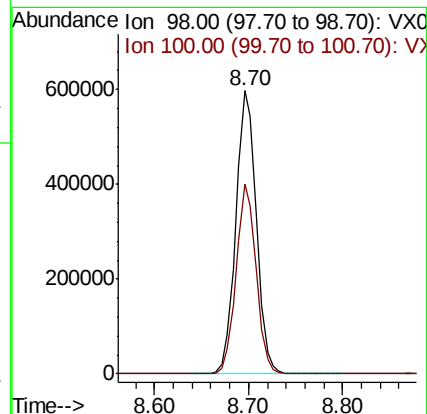
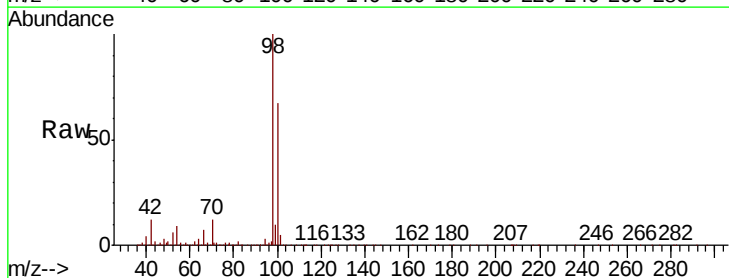
Acq: 31 Jul 2020 23:28

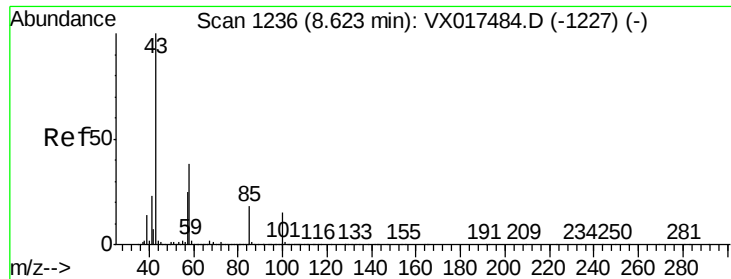
Tgt Ion: 98 Resp: 900919

Ion Ratio Lower Upper

98 100

100 65.5 52.3 78.5

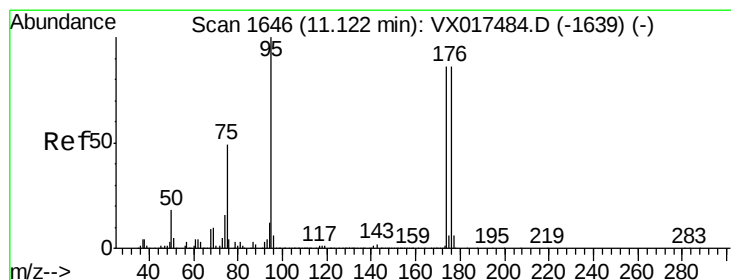
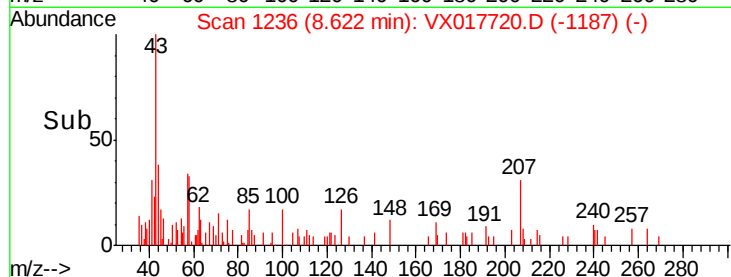
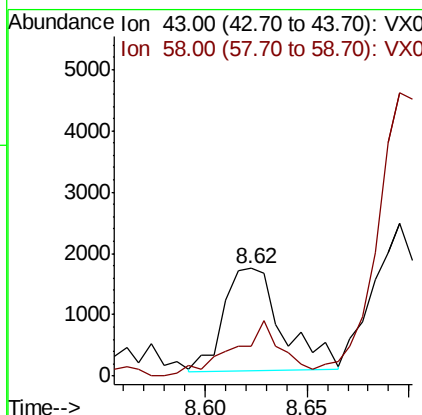
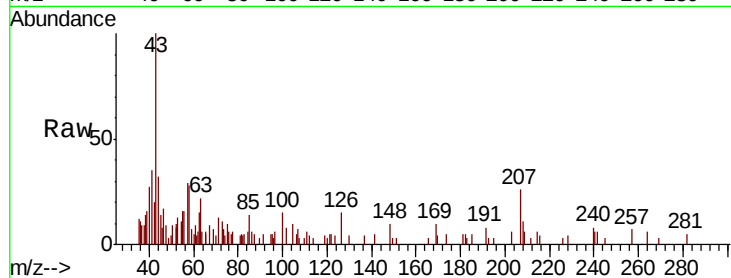




#51
4-Methyl-2-Pentanone
Concen: 0.435 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX017720.D
Acq: 31 Jul 2020 23:28

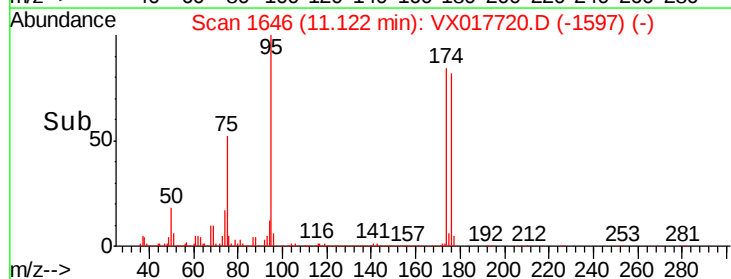
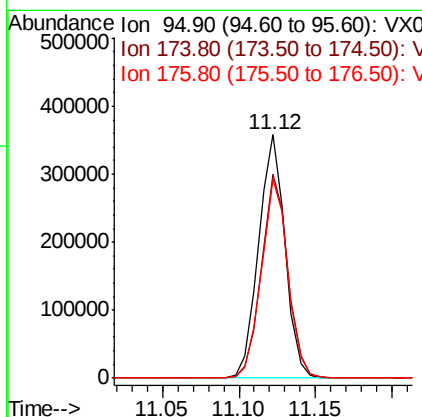
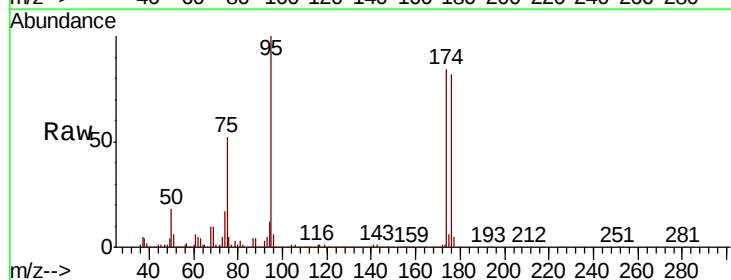
Instrument :
MSVOA_X
ClientSampleId :
PB130661ZHE#16

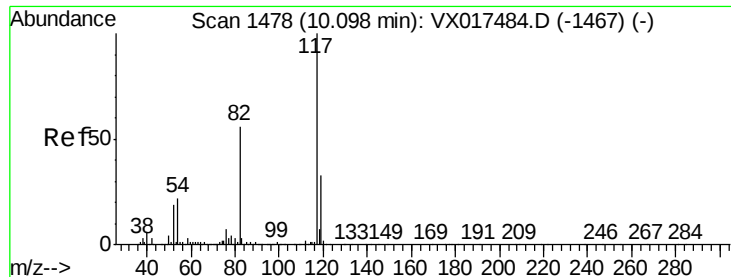
Tot Ion: 43 Resp: 3343
Ion Ratio Lower Upper
43 100
58 45.0 31.0 46.4



#62
4-Bromofluorobenzene
Concen: 60.174 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017720.D
Acq: 31 Jul 2020 23:28

Tgt Ion: 95 Resp: 432018
Ion Ratio Lower Upper
95 100
174 84.1 0.0 169.0
176 81.8 0.0 161.0

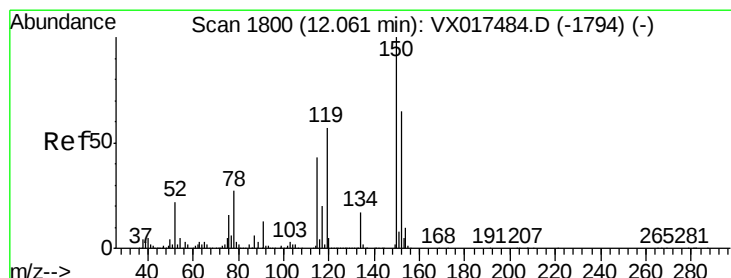
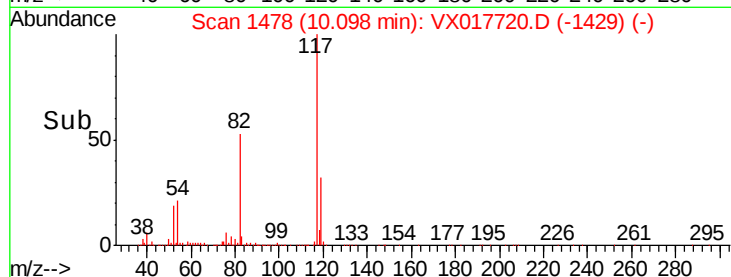
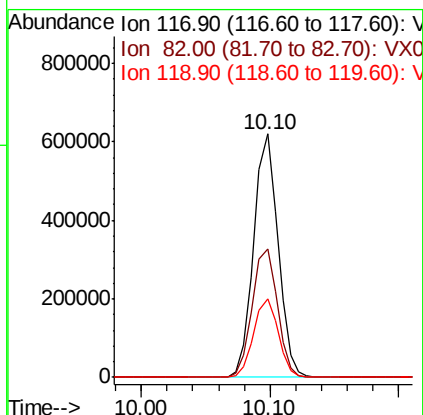
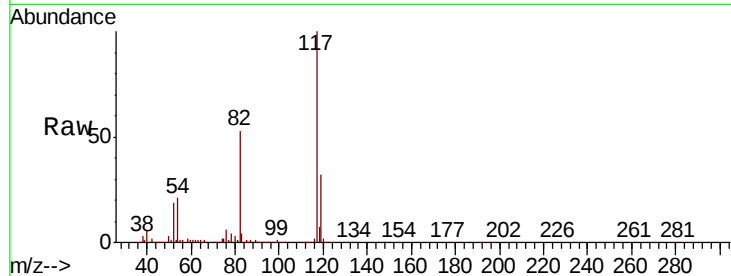




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017720.D
Acq: 31 Jul 2020 23:28

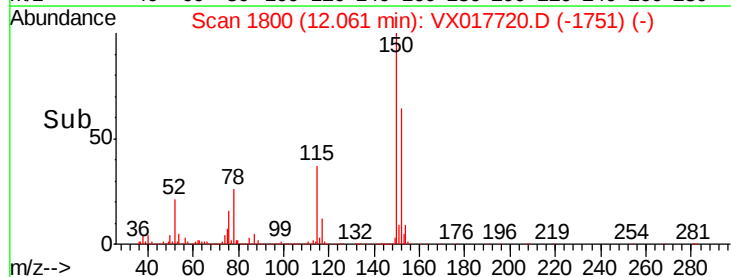
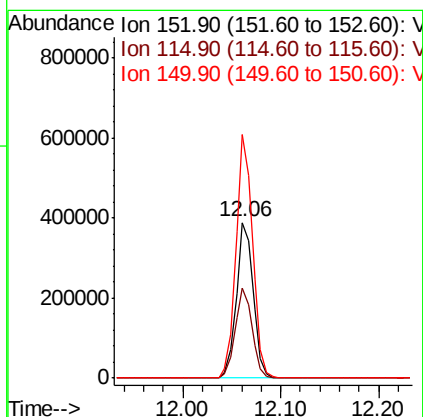
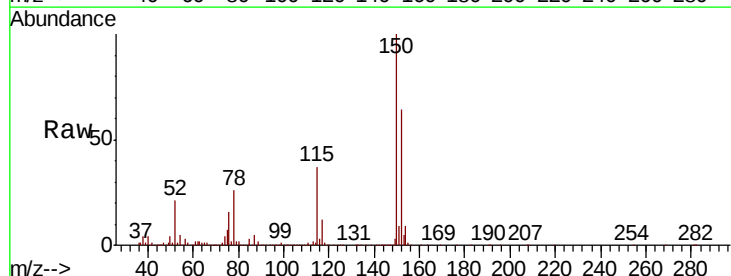
Instrument :
MSVOA_X
ClientSampleId :
PB130661ZHE#16

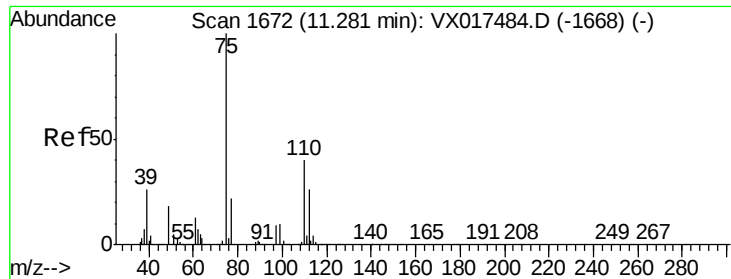
Tot Ion:117 Resp: 805320
Ion Ratio Lower Upper
117 100
82 52.8 44.0 66.0
119 32.2 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017720.D
Acq: 31 Jul 2020 23:28

Tgt Ion:152 Resp: 462135
Ion Ratio Lower Upper
152 100
115 58.0 65.5 196.6#
150 154.7 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 23.423 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

Instrument :

MSVOA_X

ClientSampleId :

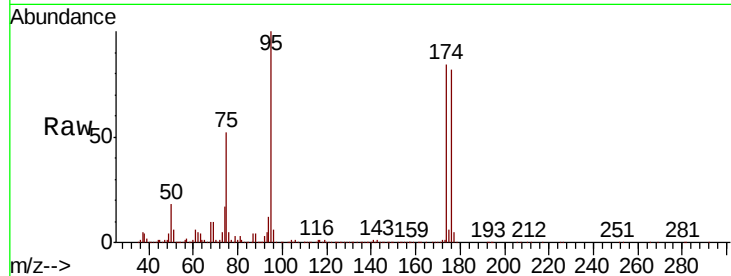
PB130661ZHE#16

Tot Ion: 75 Resp: 222670

Ion Ratio Lower Upper

75 100

77 1.3 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

200000

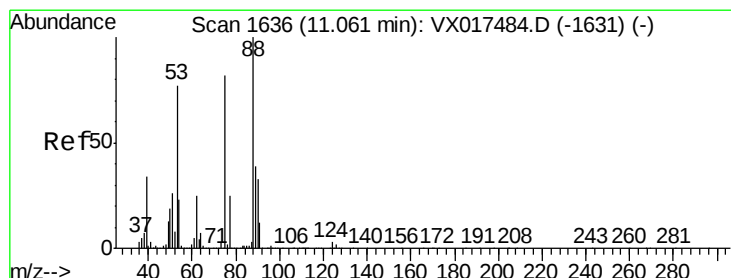
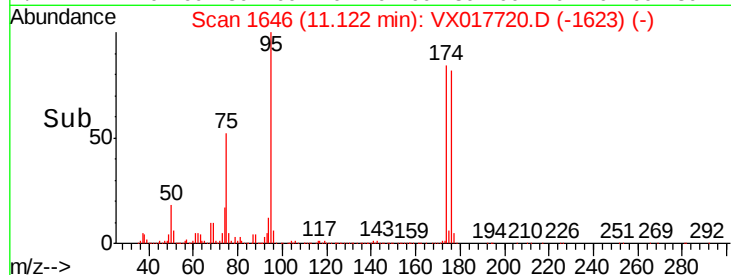
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 59.022 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

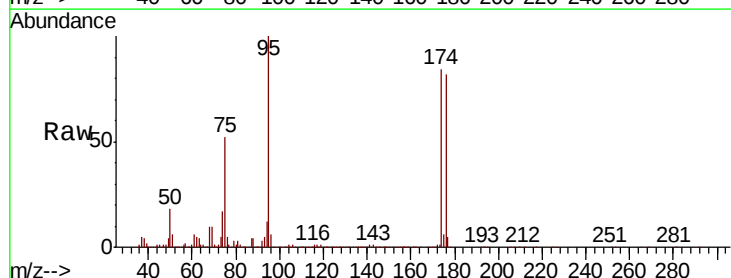
Tgt Ion: 75 Resp: 222670

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

89 0.0 37.8 56.6#



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

250000

200000

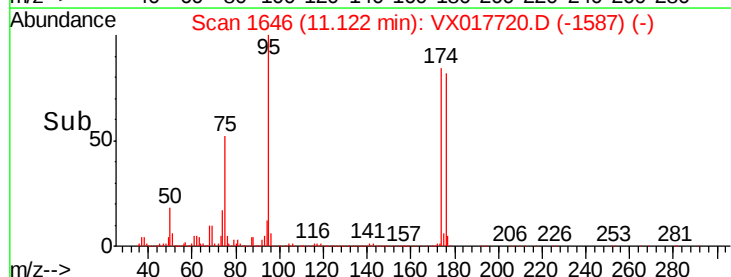
150000

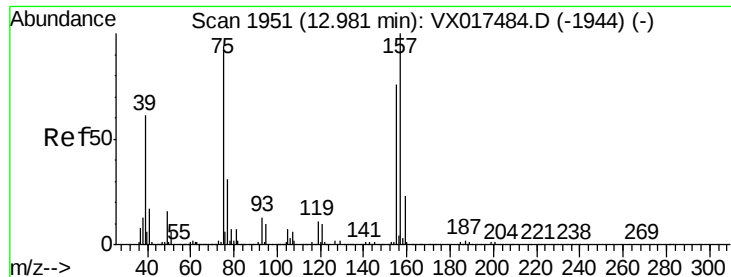
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.606 ug/l

RT: 12.98 min Scan# 1950

Delta R.T. -0.01 min

Lab File: VX017720.D

Acq: 31 Jul 2020 23:28

Instrument :

MSVOA_X

ClientSampleId :

PB130661ZHE#16

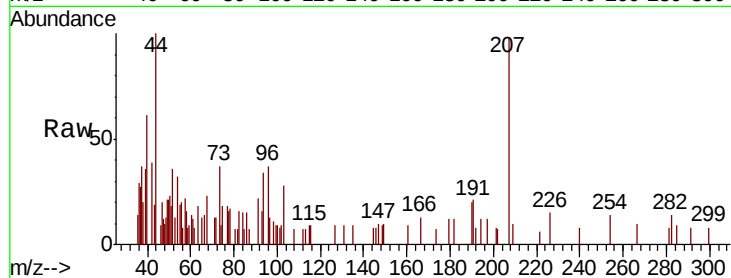
Tot Ion: 75 Resp: 87

Ion Ratio Lower Upper

75 100

155 59.8 42.3 126.8

157 358.6 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

400

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

300

200

100

0

