

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073120\
 Data File : VX017732.D
 Acq On : 01 Aug 2020 04:02
 Operator : JC/SP
 Sample : PB130661ZHE#28
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130661ZHE#28

Quant Time: Aug 01 05:13:23 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	435593	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	724205	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	787863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	467214	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	307054	54.88	ug/l	0.00
Spiked Amount			Recovery	=	109.76%	
35) Dibromofluoromethane	5.47	113	265399	54.79	ug/l	0.00
Spiked Amount			Recovery	=	109.58%	
50) Toluene-d8	8.70	98	899223	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
62) 4-Bromofluorobenzene	11.12	95	417015	59.64	ug/l	0.00
Spiked Amount			Recovery	=	119.28%	

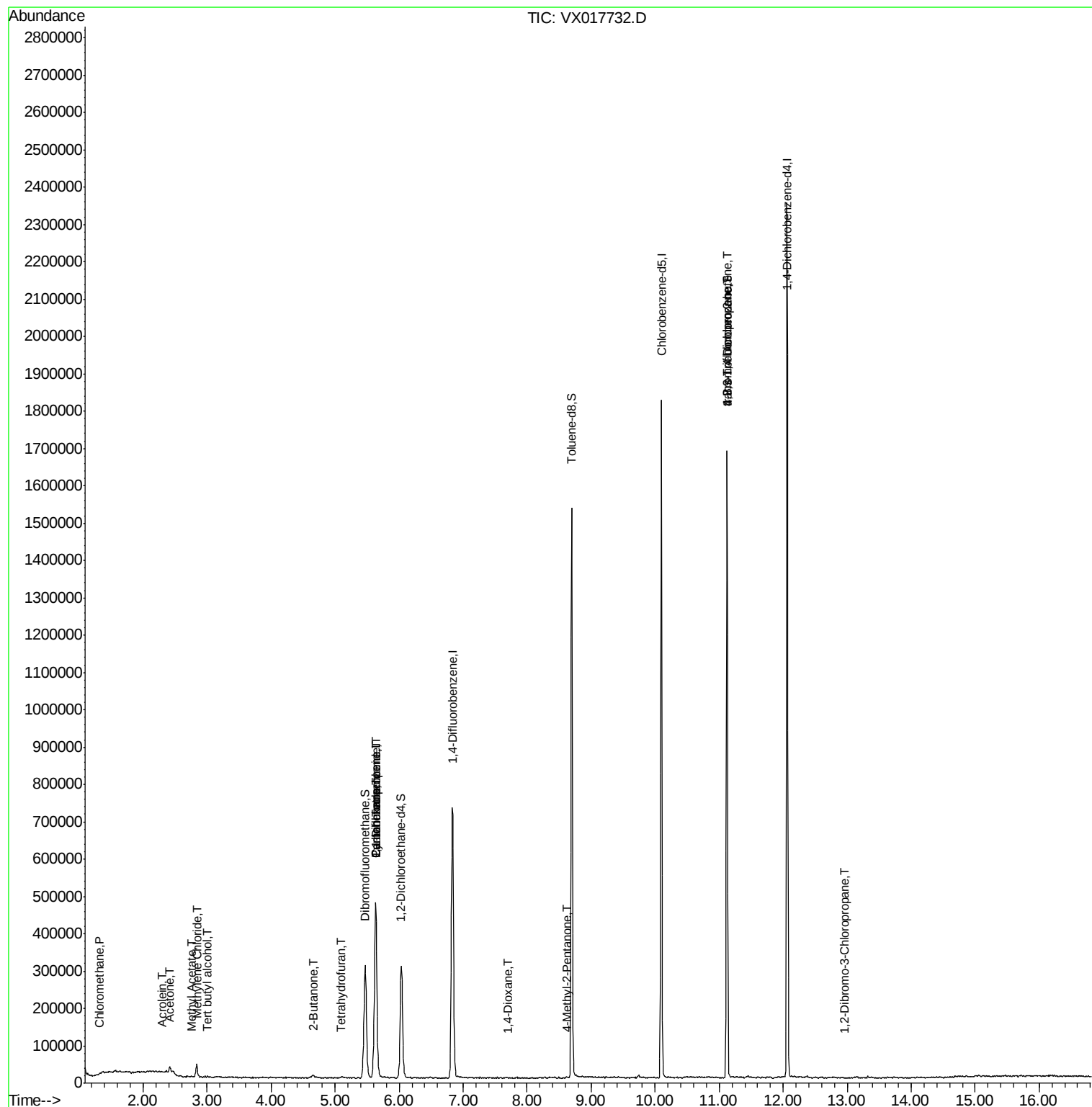
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	223	Below Cal	#	42
3) Chloromethane	1.32	50	723	0.500	ug/l #	54
5) Bromomethane	1.64	94	725	Below Cal	#	3
6) Chloroethane	1.72	64	56	Below Cal	#	44
8) Diethyl Ether	2.40	74	355	Below Cal		76
11) Tert butyl alcohol	3.01	59	640	0.543	ug/l #	24
13) Acrolein	2.29	56	325	4.504	ug/l #	14
16) Acetone	2.42	43	12810	5.202	ug/l #	85
18) Methyl Acetate	2.75	43	1186	0.204	ug/l #	89
20) Methylene Chloride	2.84	84	17091	2.464	ug/l	96
25) 2-Butanone	4.65	43	1233	0.352	ug/l #	64
29) Tetrahydrofuran	5.09	42	742	0.342	ug/l #	57
31) Cyclohexane	5.64	56	10331	1.497	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	32501	4.679	ug/l #	53
38) Carbon Tetrachloride	5.64	117	46122	5.468	ug/l #	18
49) 1,4-Dioxane	7.71	88	72	0.604	ug/l #	22
51) 4-Methyl-2-Pentanone	8.63	43	2923	0.391	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	211508	22.007	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	211508	55.454	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.96	75	143	2.625	ug/l #	37

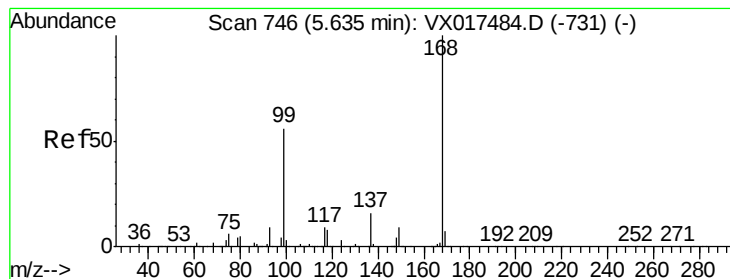
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

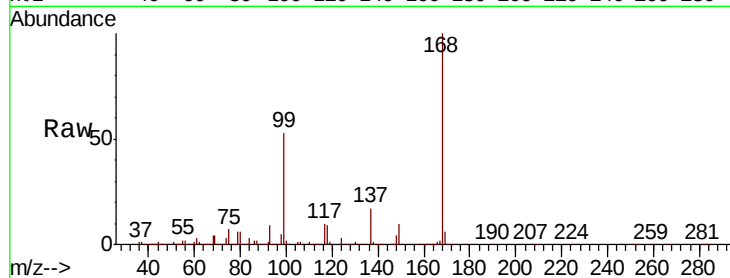
PB130661ZHE#28

Tot Ion:168 Resp: 435593

Ion Ratio Lower Upper

168 100

99 52.6 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

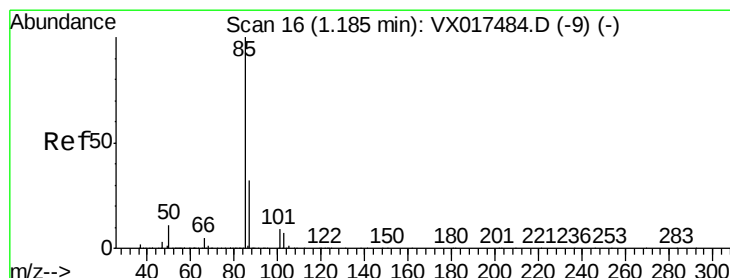
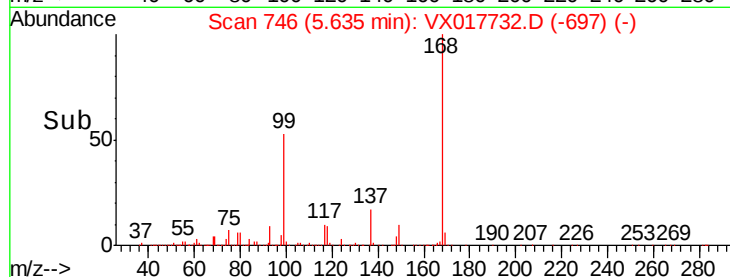
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX017732.D

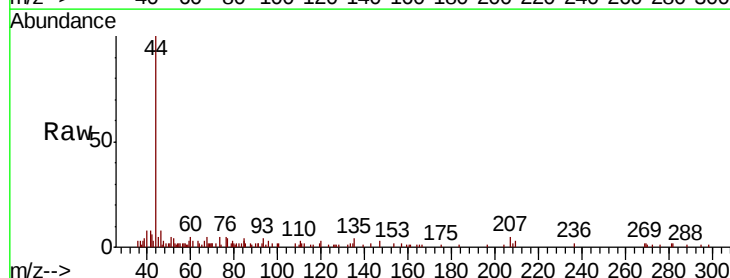
Acq: 01 Aug 2020 04:02

Tgt Ion: 85 Resp: 223

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

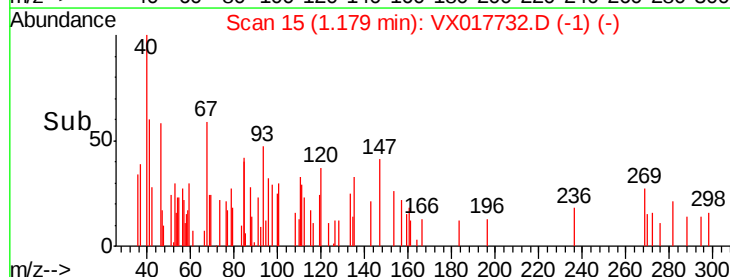
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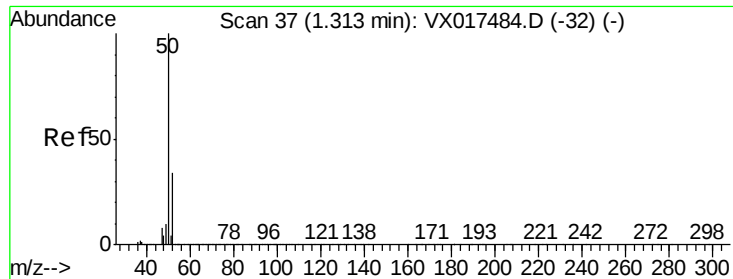
200

100

0

Time-->





#3

Chloromethane

Concen: 0.500 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

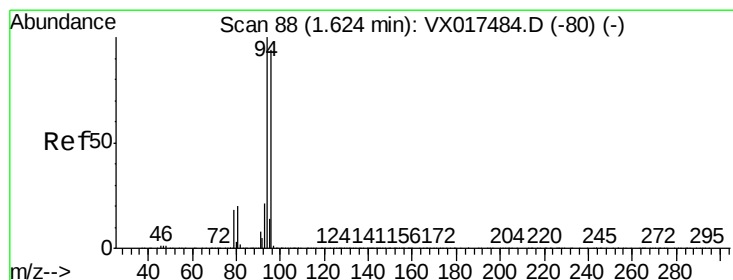
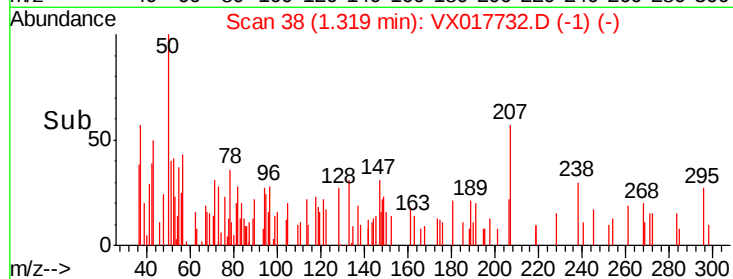
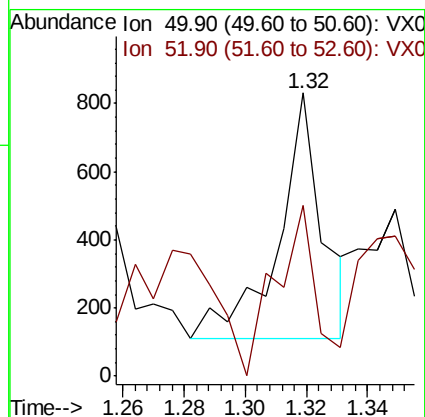
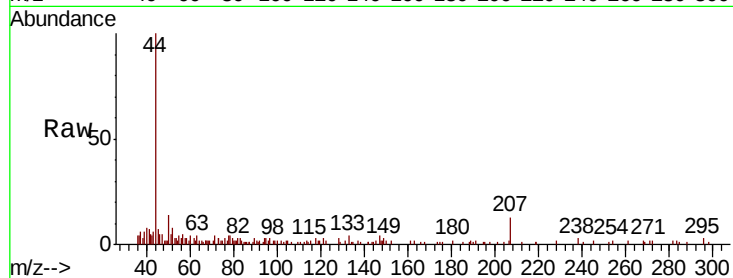
PB130661ZHE#28

Tot Ion: 50 Resp: 723

Ion Ratio Lower Upper

50 100

52 57.9 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017732.D

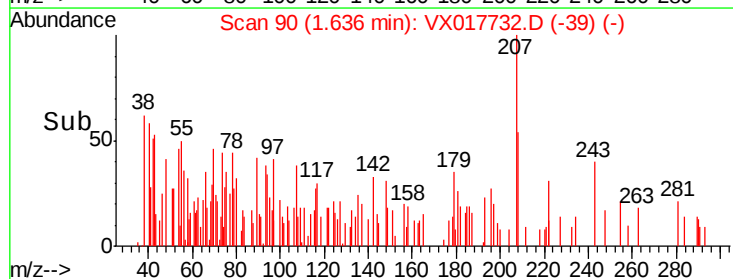
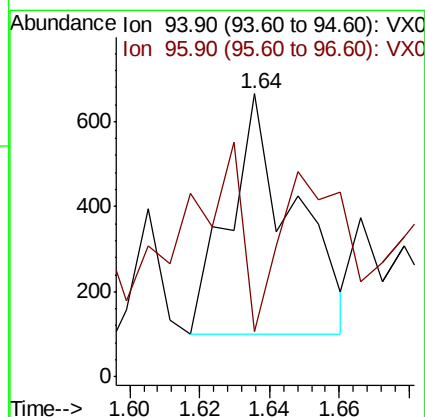
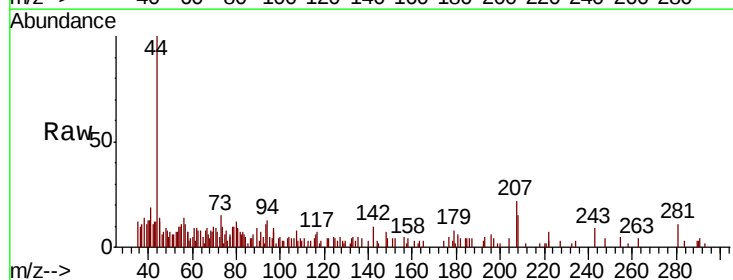
Acq: 01 Aug 2020 04:02

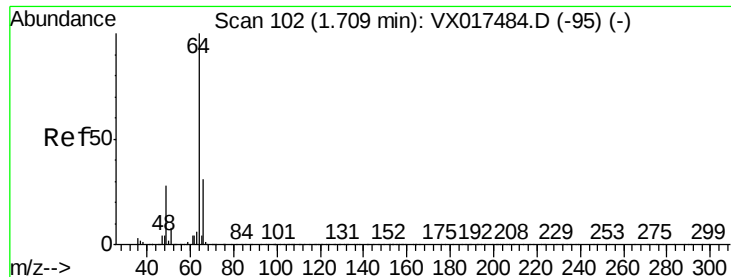
Tgt Ion: 94 Resp: 725

Ion Ratio Lower Upper

94 100

96 0.0 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

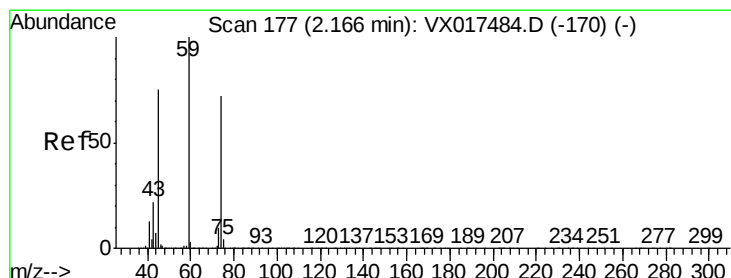
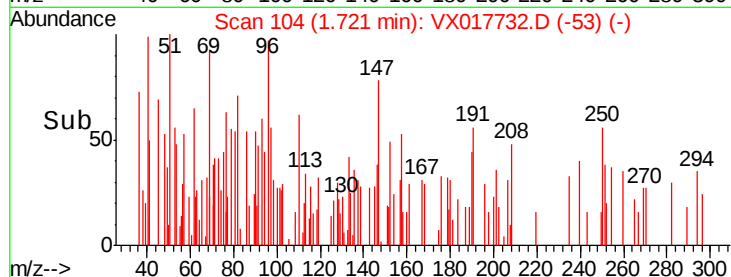
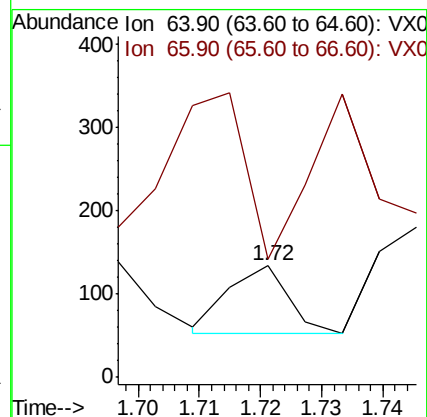
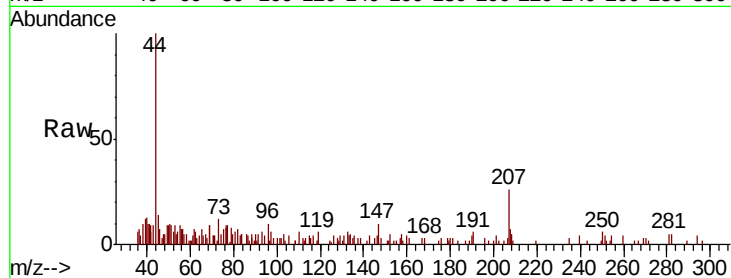
PB130661ZHE#28

Tot Ion: 64 Resp: 56

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.40 min Scan# 215

Delta R.T. 0.23 min

Lab File: VX017732.D

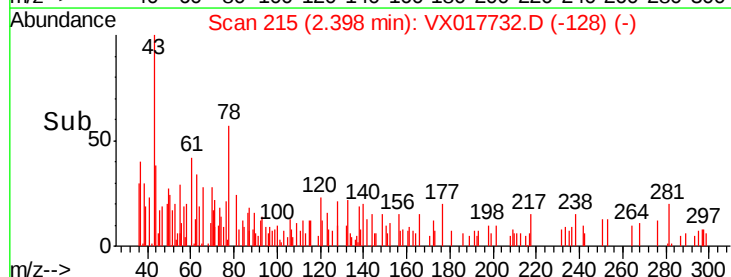
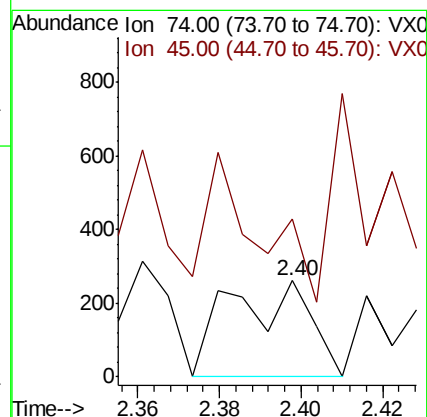
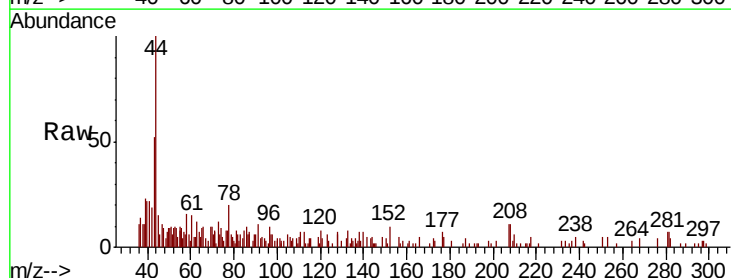
Acq: 01 Aug 2020 04:02

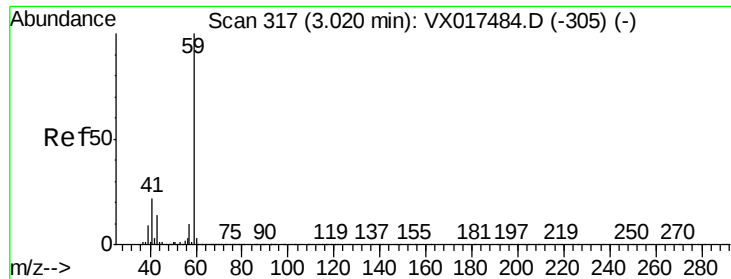
Tgt Ion: 74 Resp: 355

Ion Ratio Lower Upper

74 100

45 125.6 50.8 152.5

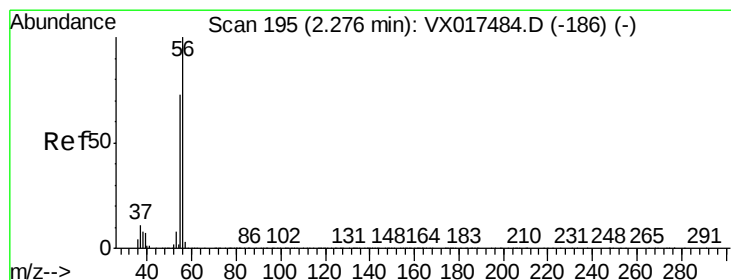
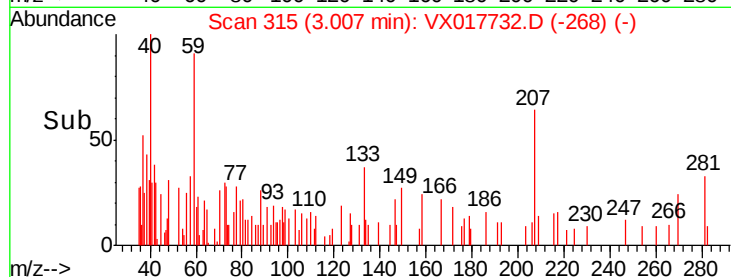
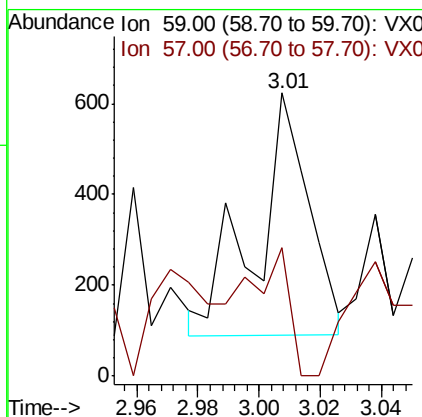
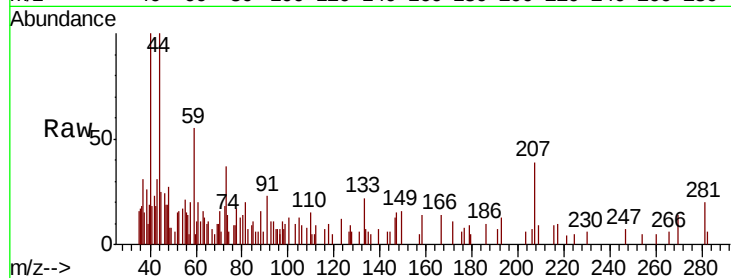




#11
Tert butyl alcohol
Concen: 0.543 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017732.D
Acq: 01 Aug 2020 04:02

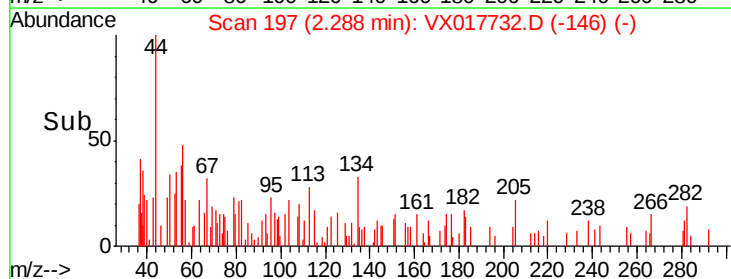
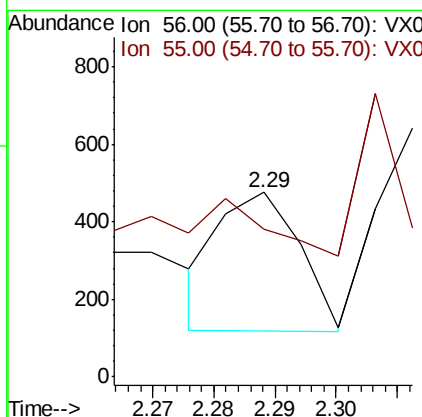
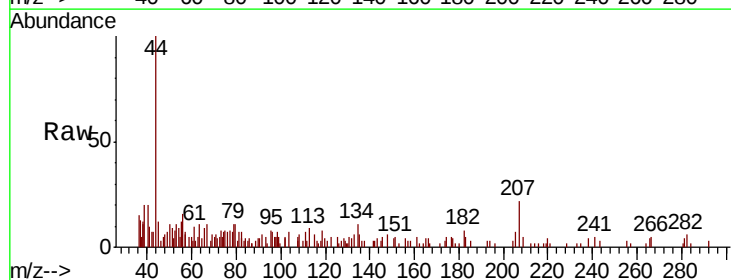
Instrument :
MSVOA_X
ClientSampleId :
PB130661ZHE#28

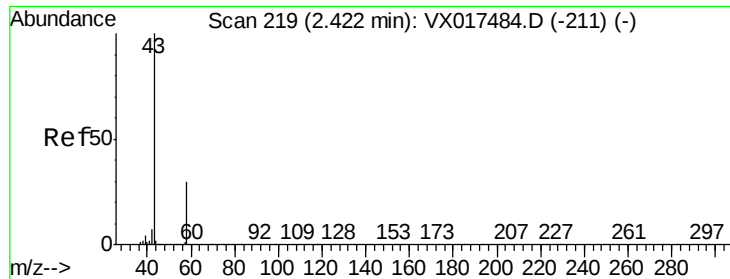
Tot Ion: 59 Resp: 640
Ion Ratio Lower Upper
59 100
57 39.2 8.6 12.8#



#13
Acrolein
Concen: 4.504 ug/l
RT: 2.29 min Scan# 197
Delta R.T. 0.01 min
Lab File: VX017732.D
Acq: 01 Aug 2020 04:02

Tgt Ion: 56 Resp: 325
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.2#





#16

Acetone

Concen: 5.202 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

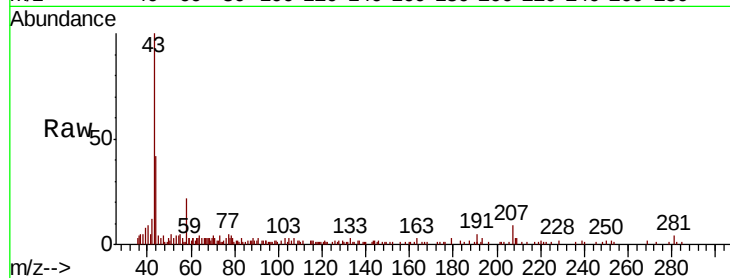
PB130661ZHE#28

Tot Ion: 43 Resp: 12810

Ion Ratio Lower Upper

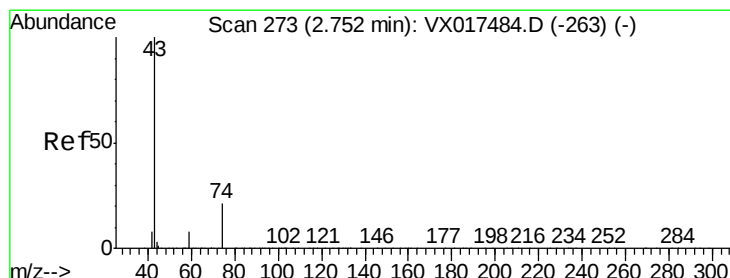
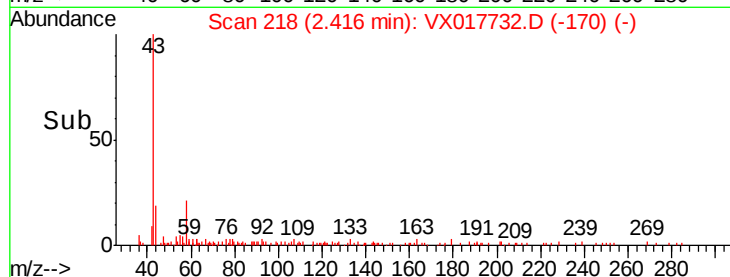
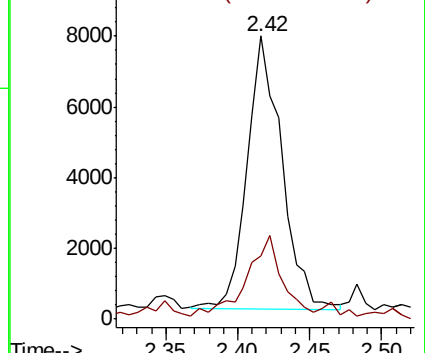
43 100

58 21.9 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.204 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX017732.D

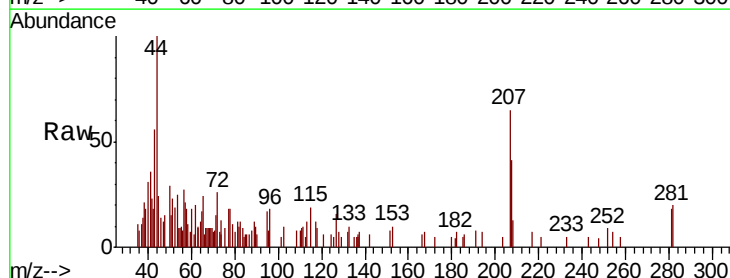
Acq: 01 Aug 2020 04:02

Tgt Ion: 43 Resp: 1186

Ion Ratio Lower Upper

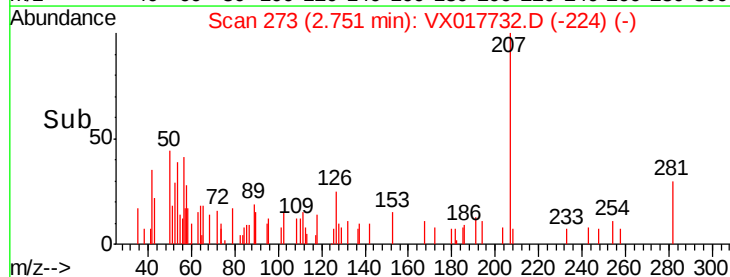
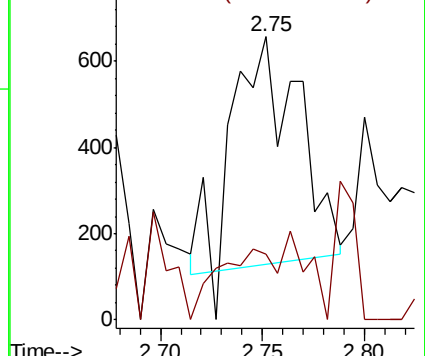
43 100

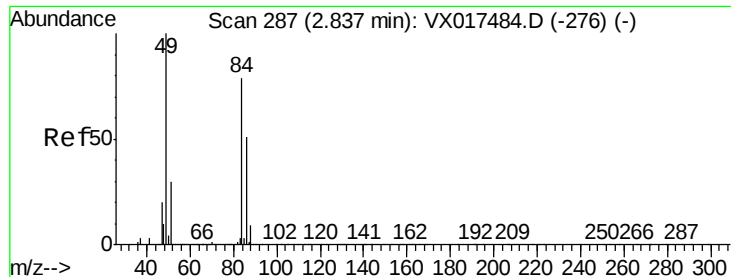
74 27.2 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

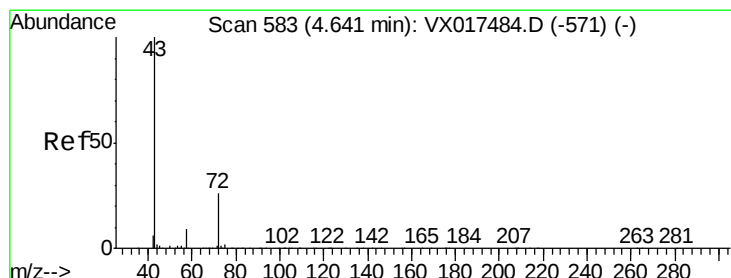
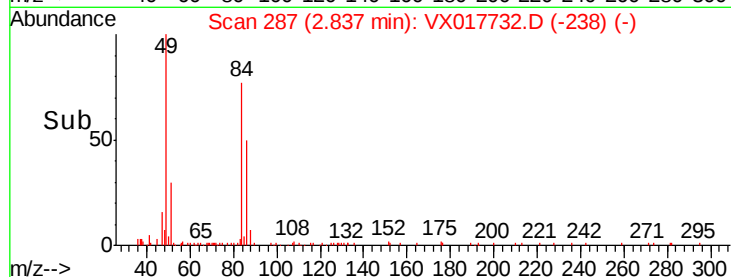
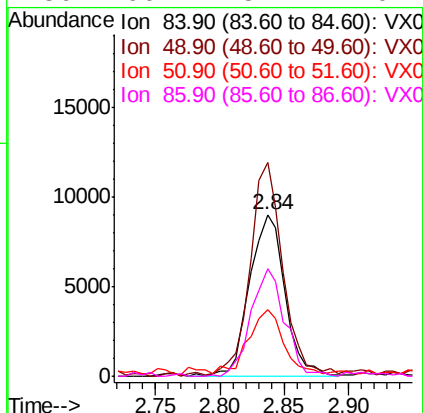
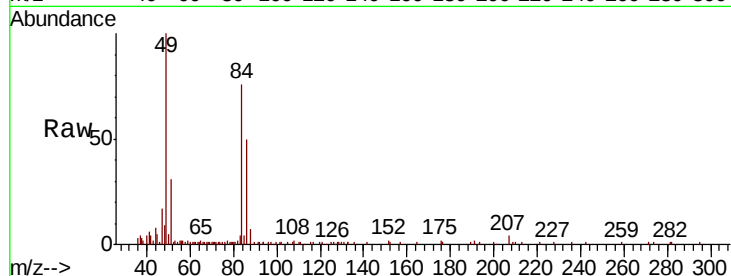




#20
Methvlene Chloride
Concen: 2.464 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017732.D
Acq: 01 Aug 2020 04:02

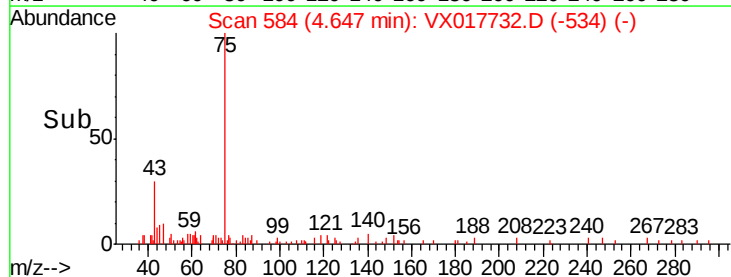
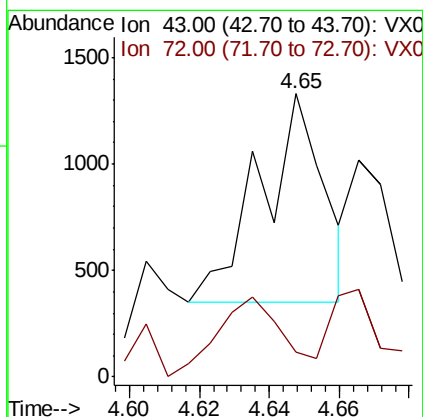
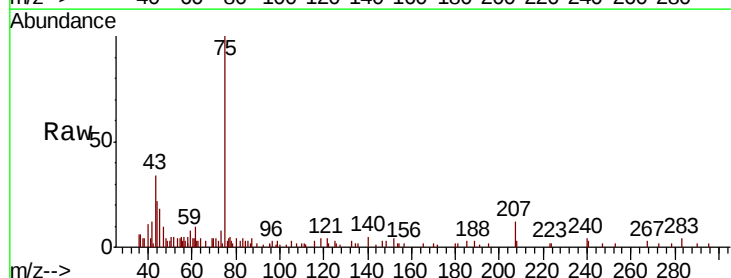
Instrument :
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PB130661ZHE#28

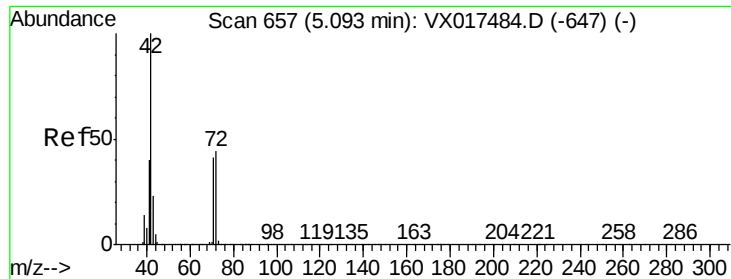
Tot Ion: 84 Resp: 17091
Ion Ratio Lower Upper
84 100
49 131.2 100.3 150.5
51 38.3 30.5 45.7
86 66.4 51.1 76.7



#25
2-Butanone
Concen: 0.352 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017732.D
Acq: 01 Aug 2020 04:02

Tgt Ion: 43 Resp: 1233
Ion Ratio Lower Upper
43 100
72 5.9 19.0 28.4#





#29

Tetrahydrofuran

Concen: 0.342 ug/l

RT: 5.09 min Scan# 656

Delta R.T. -0.01 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

PB130661ZHE#28

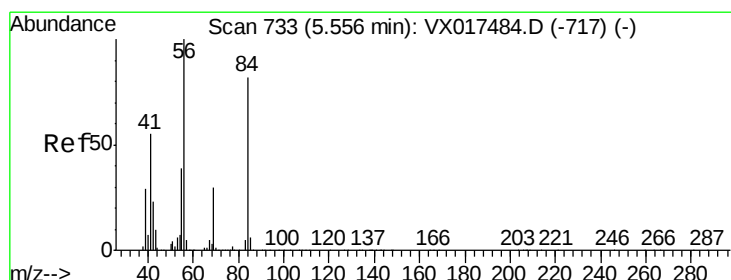
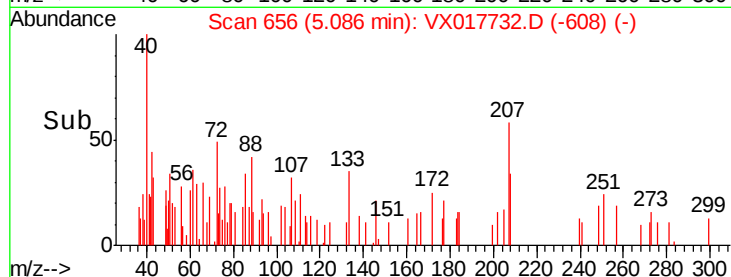
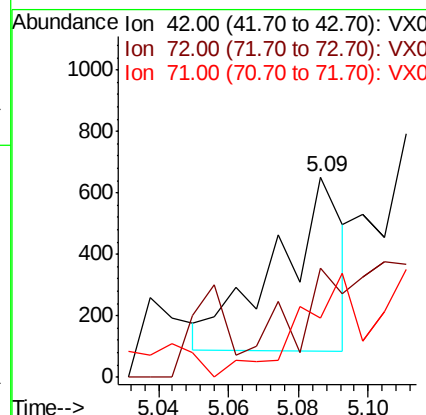
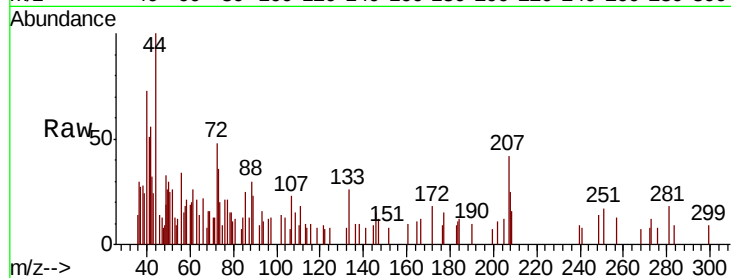
Tot Ion: 42 Resp: 742

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

71 50.9 33.0 49.4#



#31

Cyclohexane

Concen: 1.497 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.08 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

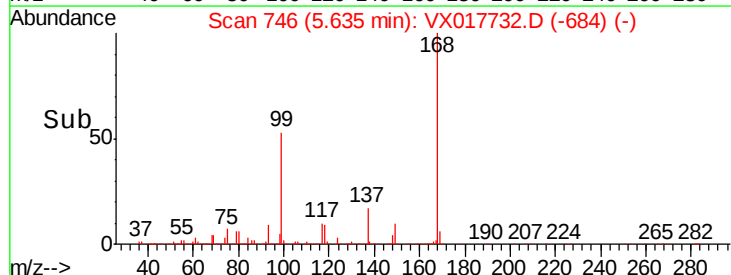
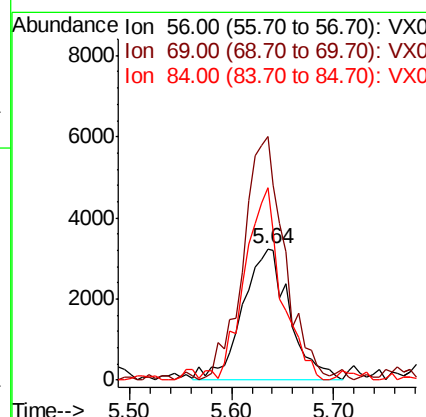
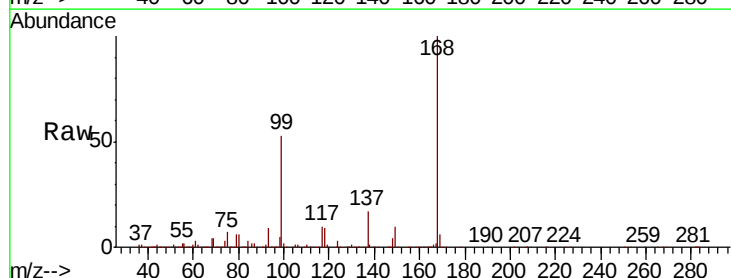
Tgt Ion: 56 Resp: 10331

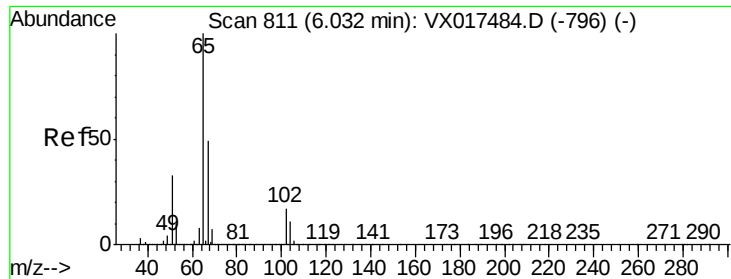
Ion Ratio Lower Upper

56 100

69 182.9 24.2 36.4#

84 140.2 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 54.876 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

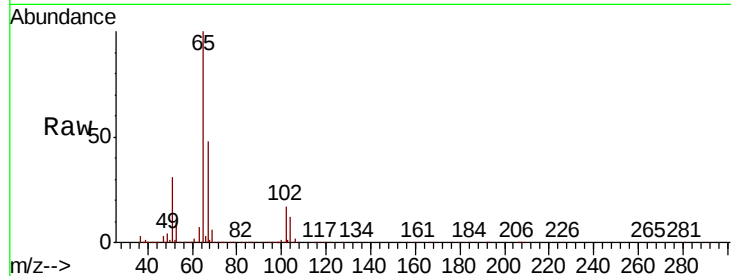
PB130661ZHE#28

Tot Ion: 65 Resp: 307054

Ion Ratio Lower Upper

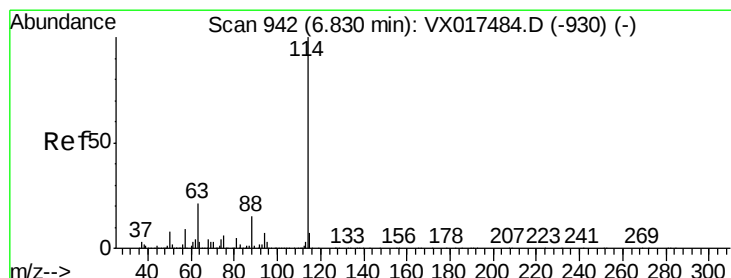
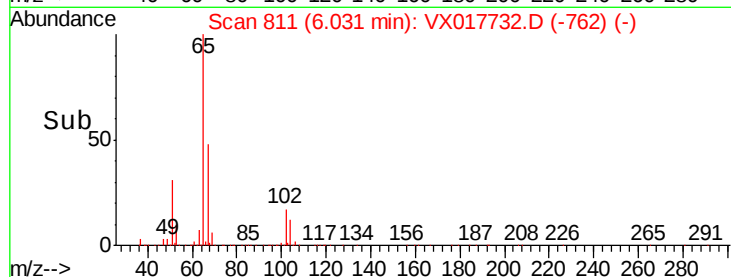
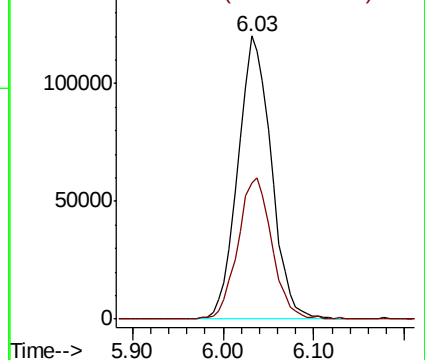
65 100

67 50.9 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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

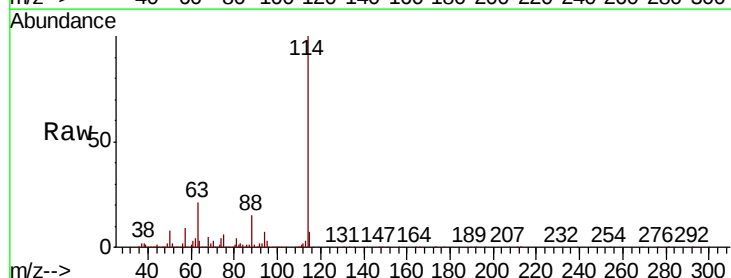
Tgt Ion: 114 Resp: 724205

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.6

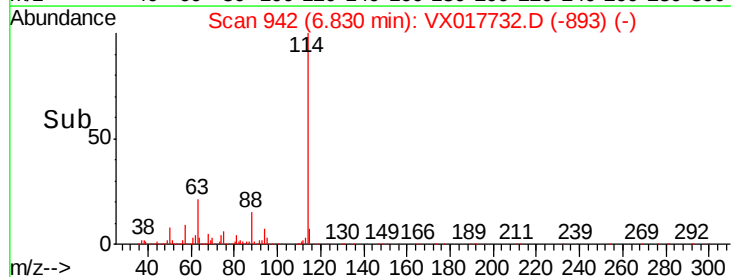
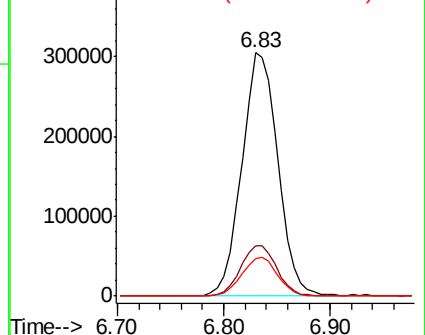
88 15.3 0.0 33.4

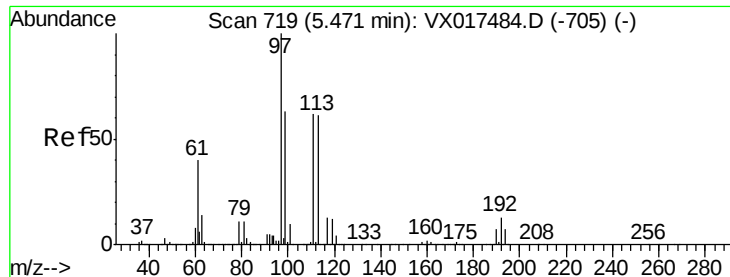


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 54.795 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

PB130661ZHE#28

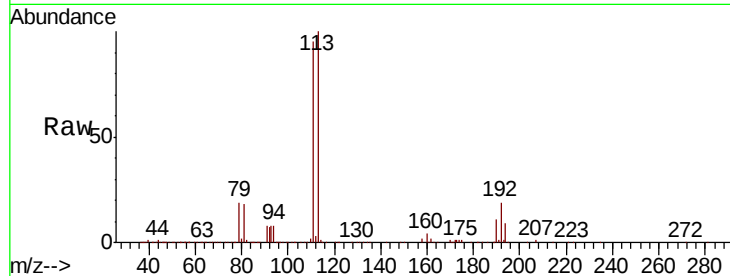
Tot Ion:113 Resp: 265399

Ion Ratio Lower Upper

113 100

111 99.8 80.7 121.1

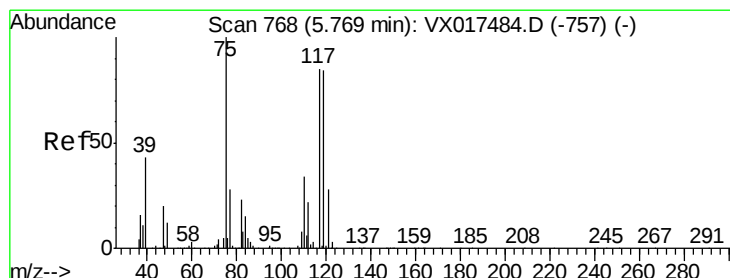
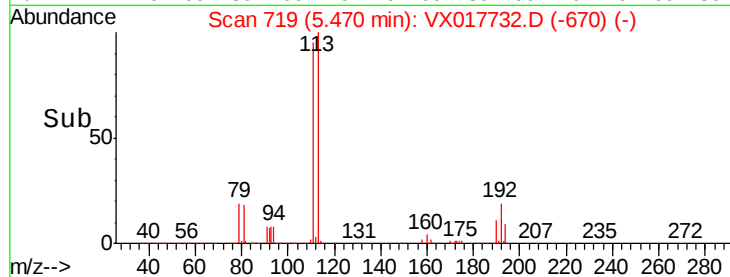
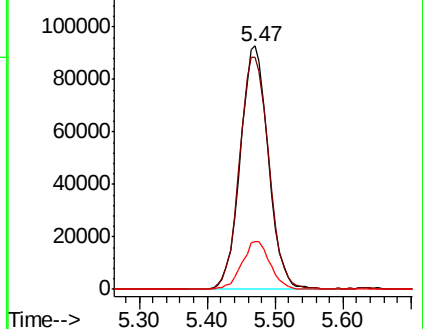
192 19.9 16.9 25.3



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: 4.679 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

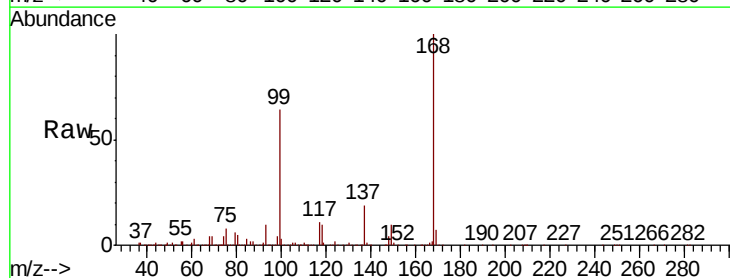
Tgt Ion: 75 Resp: 32501

Ion Ratio Lower Upper

75 100

110 11.9 18.1 54.3#

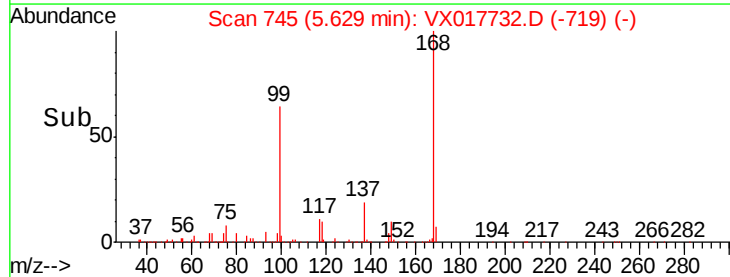
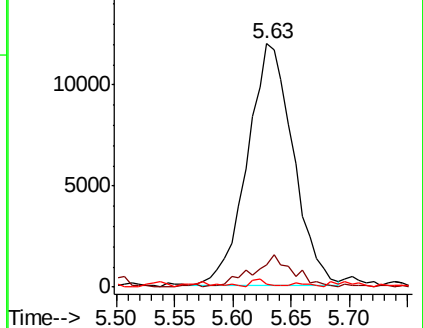
77 1.1 24.6 37.0#

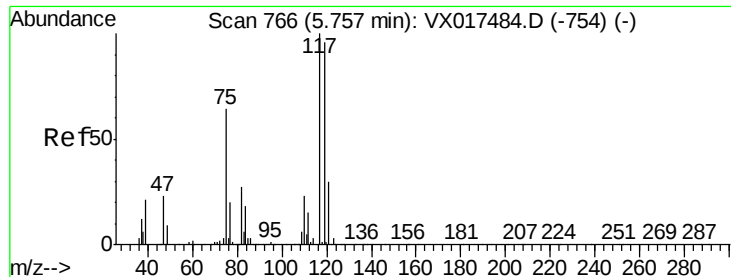


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.468 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

PB130661ZHE#28

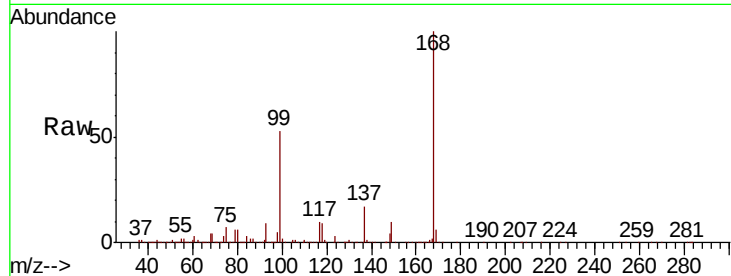
Tot Ion:117 Resp: 46122

Ion Ratio Lower Upper

117 100

119 7.0 75.4 113.0#

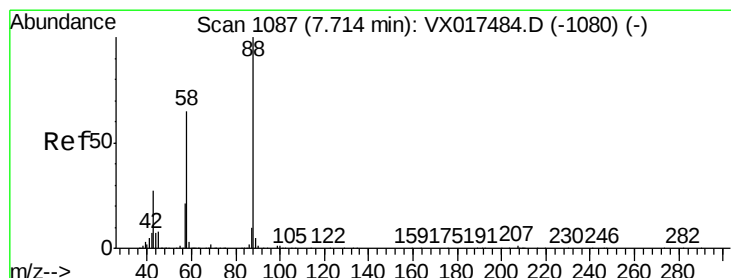
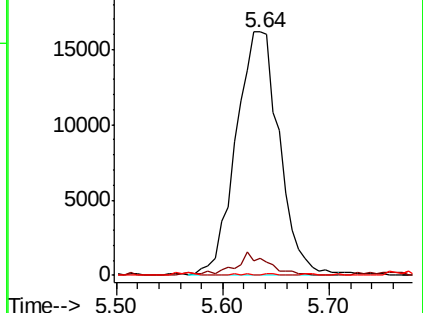
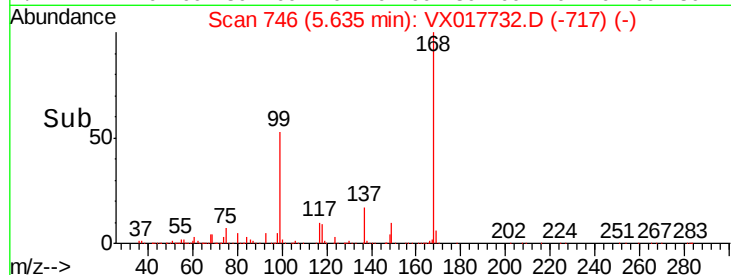
121 0.0 24.3 36.5#



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



#49

1,4-Dioxane

Concen: 0.604 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

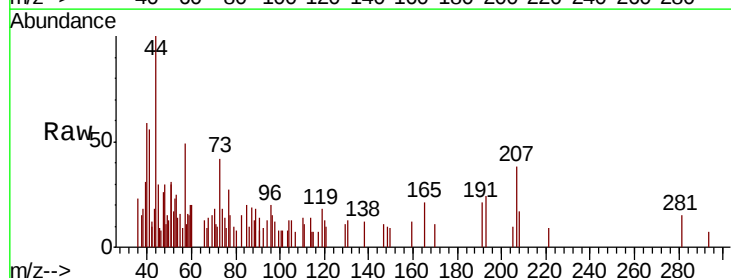
Tgt Ion: 88 Resp: 72

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

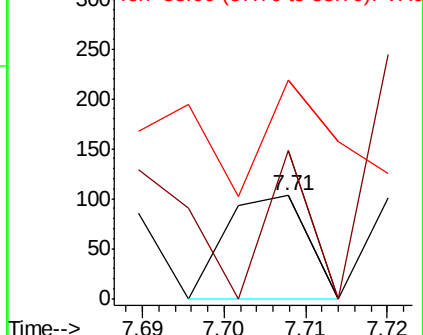
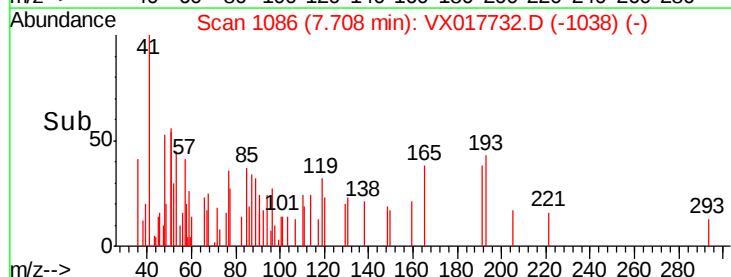
58 0.0 58.3 87.5#

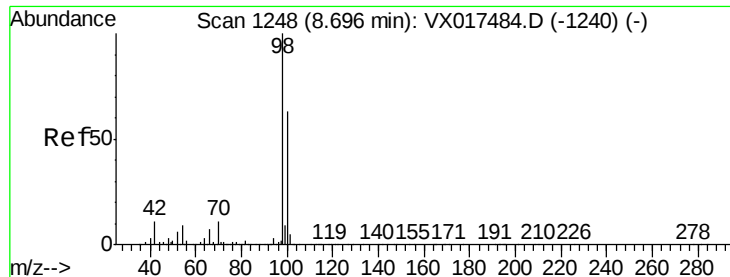


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.464 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

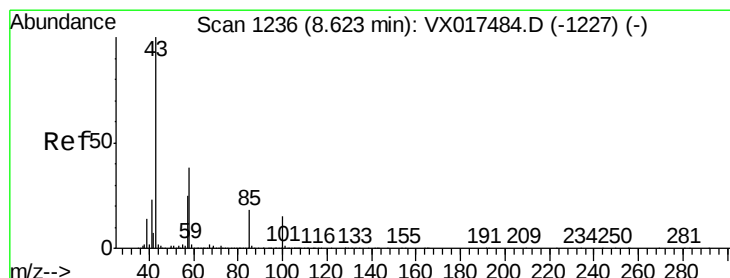
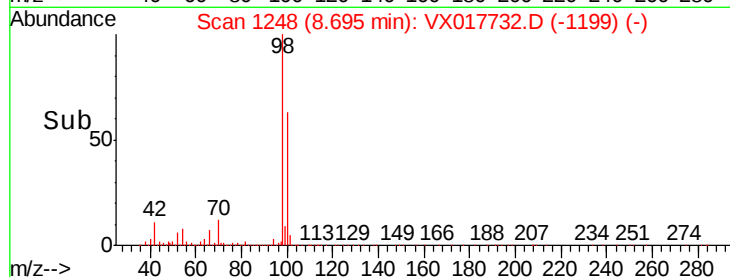
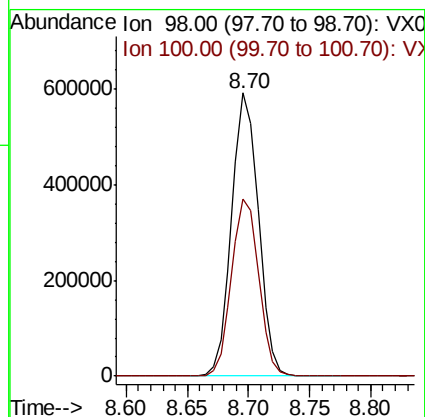
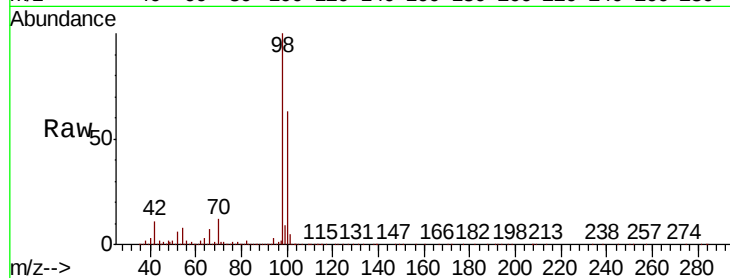
PB130661ZHE#28

Tot Ion: 98 Resp: 899223

Ion Ratio Lower Upper

98 100

100 63.5 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 0.391 ug/l

RT: 8.63 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VX017732.D

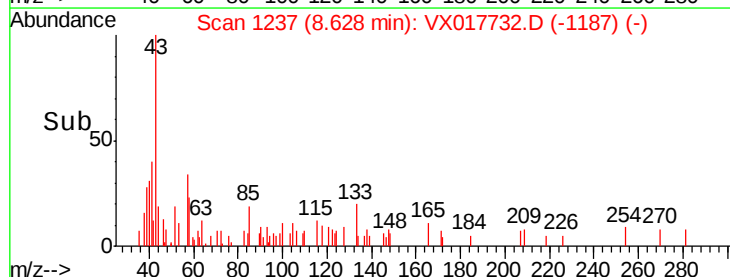
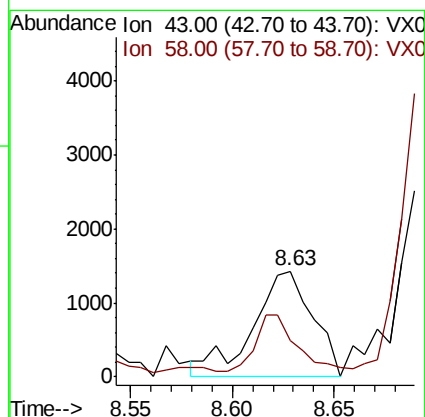
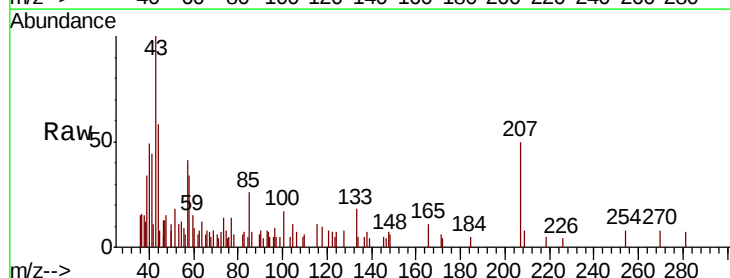
Acq: 01 Aug 2020 04:02

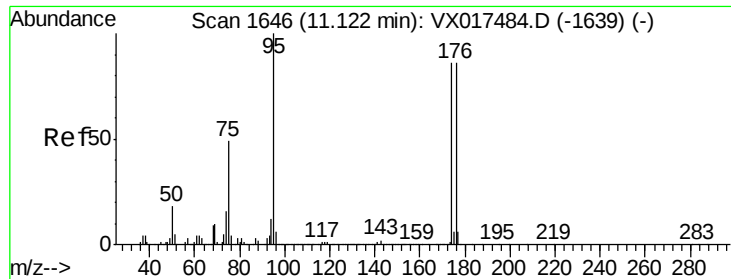
Tgt Ion: 43 Resp: 2923

Ion Ratio Lower Upper

43 100

58 36.9 31.0 46.4





#62

4-Bromofluorobenzene

Concen: 59.636 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

PB130661ZHE#28

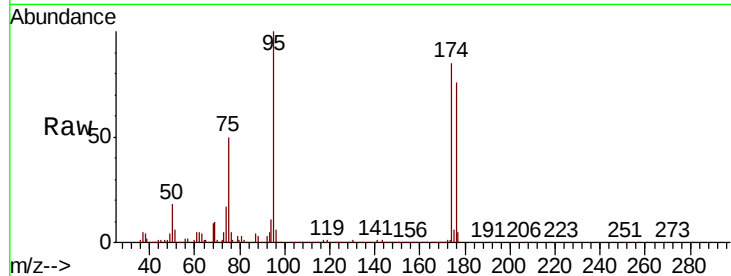
Tot Ion: 95 Resp: 417015

Ion Ratio Lower Upper

95 100

174 84.9 0.0 169.0

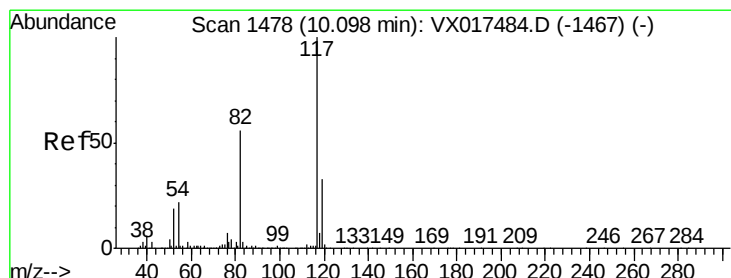
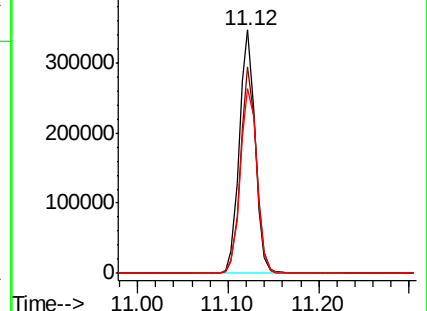
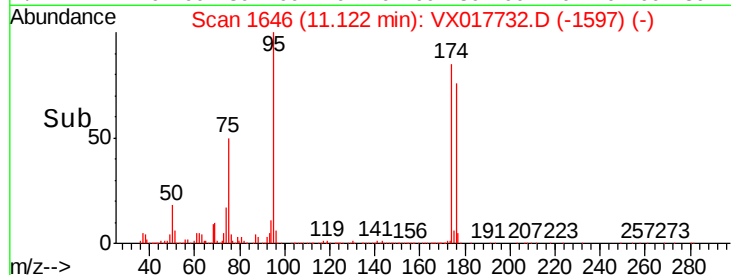
176 80.0 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX017732.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX017732.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX017732.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

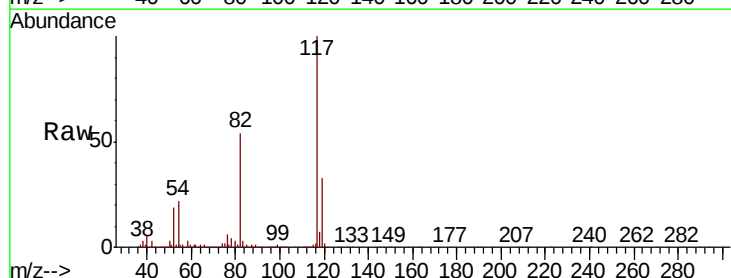
Tgt Ion: 117 Resp: 787863

Ion Ratio Lower Upper

117 100

82 54.0 44.0 66.0

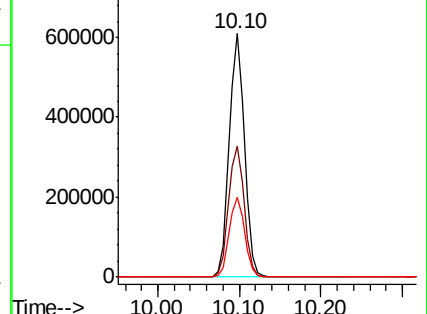
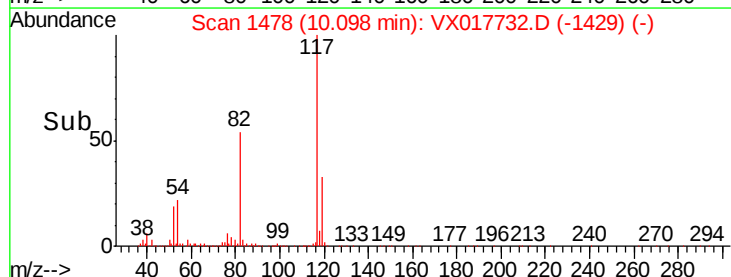
119 32.9 25.4 38.0

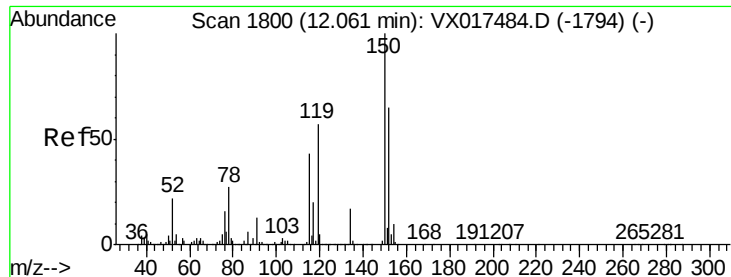


Abundance Ion 116.90 (116.60 to 117.60): VX017732.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX017732.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX017732.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

PB130661ZHE#28

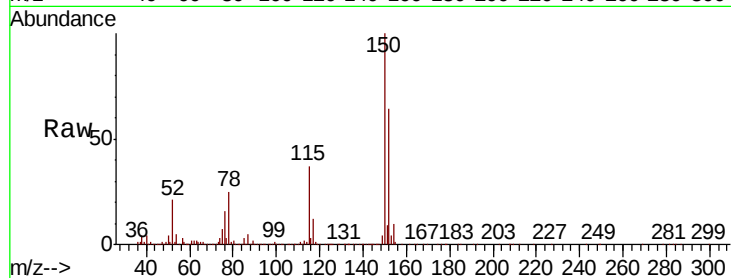
Tot Ion:152 Resp: 467214

Ion Ratio Lower Upper

152 100

115 58.3 65.5 196.6#

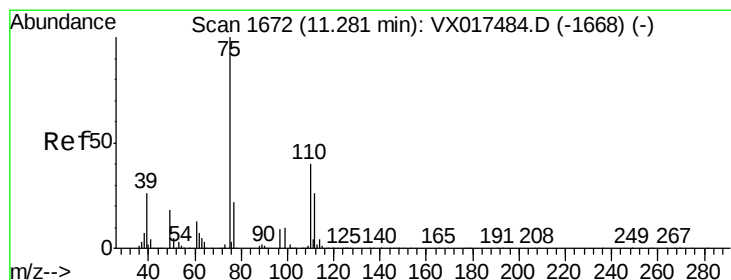
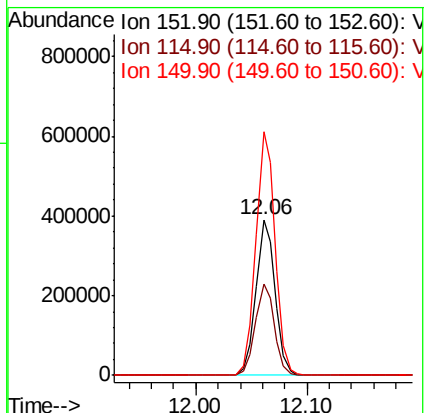
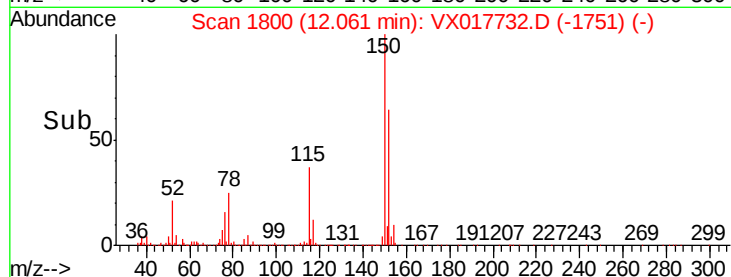
150 157.3 0.0 412.6



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: 22.007 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017732.D

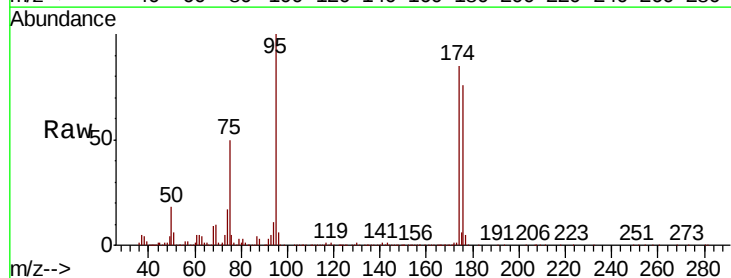
Acq: 01 Aug 2020 04:02

Tgt Ion: 75 Resp: 211508

Ion Ratio Lower Upper

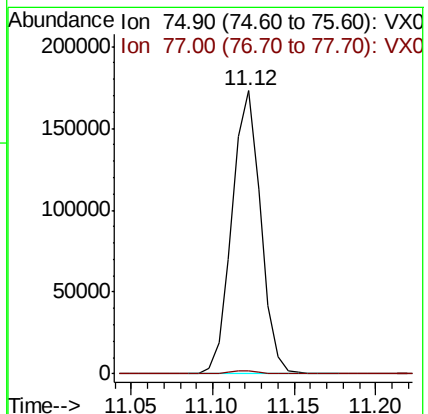
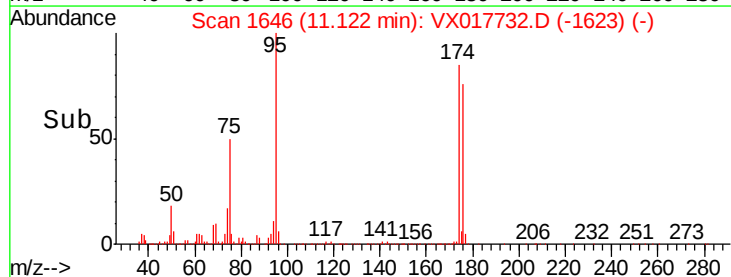
75 100

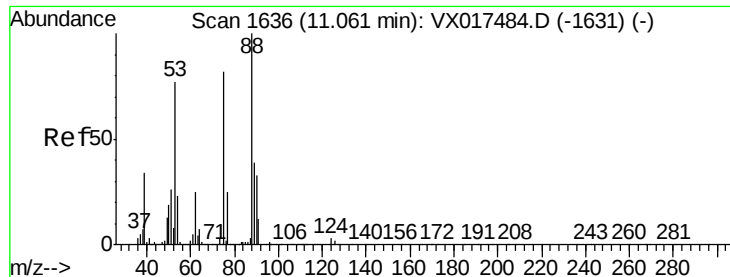
77 1.3 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.454 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

Instrument :

MSVOA_X

ClientSampleId :

PB130661ZHE#28

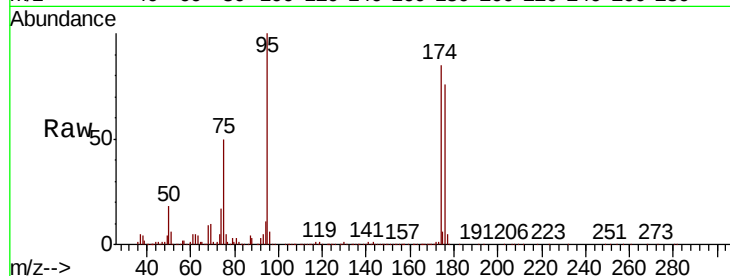
Tot Ion: 75 Resp: 211508

Ion Ratio Lower Upper

75 100

53 0.5 75.9 113.9#

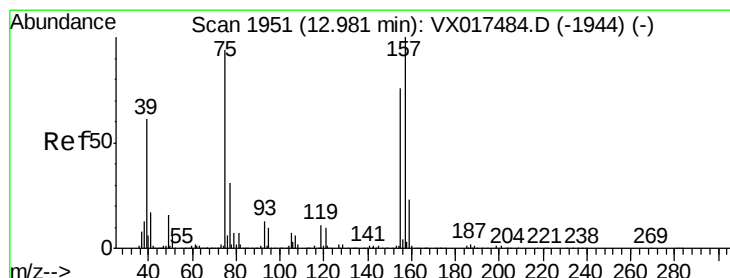
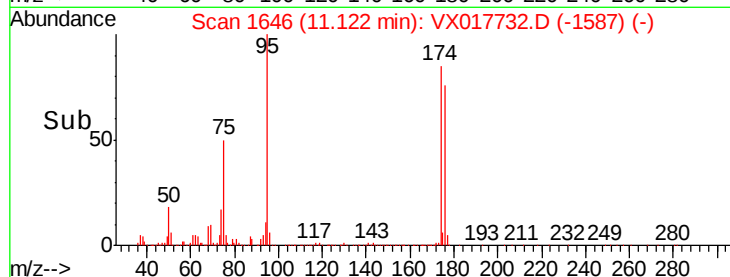
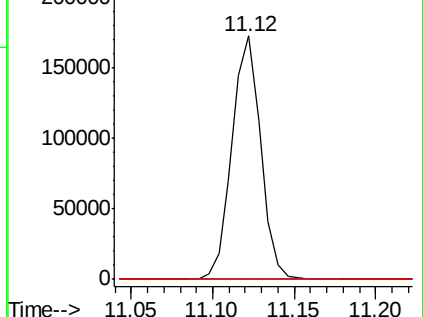
89 0.0 37.8 56.6#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.625 ug/l

RT: 12.96 min Scan# 1948

Delta R.T. -0.02 min

Lab File: VX017732.D

Acq: 01 Aug 2020 04:02

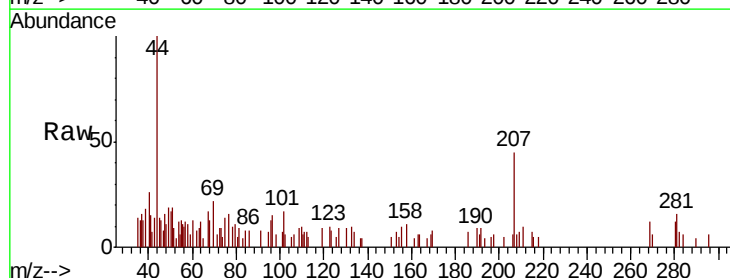
Tgt Ion: 75 Resp: 143

Ion Ratio Lower Upper

75 100

155 93.7 42.3 126.8

157 0.0 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

