

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080420\
 Data File : VX017779.D
 Acq On : 04 Aug 2020 18:51
 Operator : JC/SP
 Sample : L3547-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130720ZHE#20

Quant Time: Aug 05 01:51:59 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	565554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	869893	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	825085	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	403029	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	374287	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
35) Dibromofluoromethane	5.47	113	290868	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
50) Toluene-d8	8.70	98	1051507	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
62) 4-Bromofluorobenzene	11.12	95	387273	46.11	ug/l	0.00
Spiked Amount			Recovery	=	92.22%	

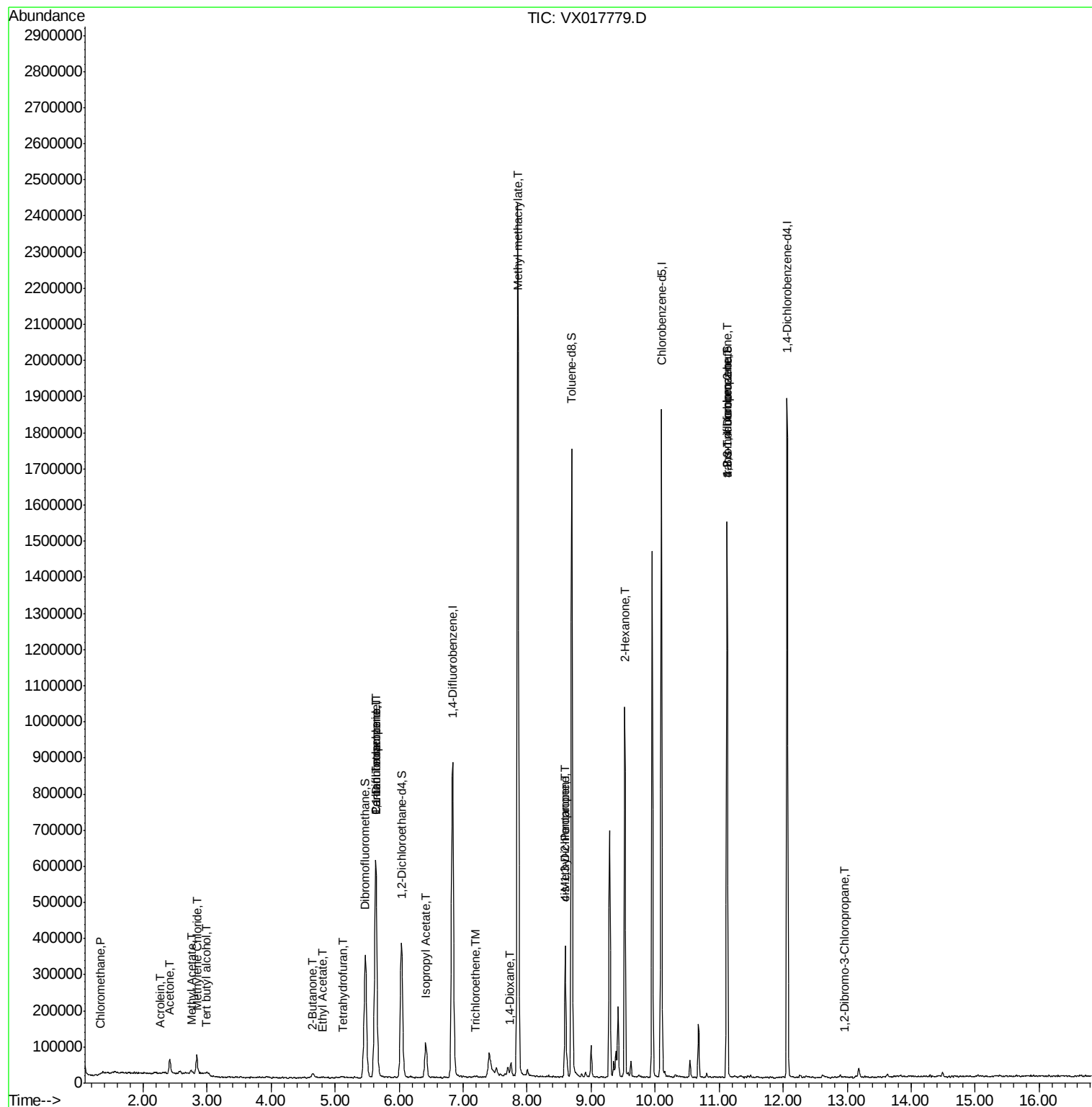
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	409	Below Cal		96
3) Chloromethane	1.32	50	614	0.454 ug/l		97
5) Bromomethane	1.65	94	619	Below Cal	#	38
6) Chloroethane	1.72	64	311	Below Cal	#	52
8) Diethyl Ether	2.17	74	1894	Below Cal		73
11) Tert butyl alcohol	3.00	59	3642	2.379 ug/l	#	65
13) Acrolein	2.28	56	462	4.537 ug/l	#	1
16) Acetone	2.42	43	47626	14.895 ug/l		92
18) Methyl Acetate	2.75	43	10351	1.375 ug/l	#	87
20) Methylene Chloride	2.84	84	22777	2.564 ug/l		97
25) 2-Butanone	4.65	43	11400	2.510 ug/l	#	86
29) Tetrahydrofuran	5.12	42	4306	1.530 ug/l	#	37
36) 1,1-Dichloropropene	5.63	75	42951	5.148 ug/l	#	52
37) Ethyl Acetate	4.81	43	2820	0.309 ug/l	#	88
38) Carbon Tetrachloride	5.63	117	57745	5.700 ug/l	#	18
43) Isopropyl Acetate	6.42	43	132723	8.812 ug/l		99
44) Trichloroethene	7.19	130	1615	0.231 ug/l		57
48) Methyl methacrylate	7.85	41	204045	27.330 ug/l	#	47
49) 1,4-Dioxane	7.73	88	99	0.692 ug/l	#	22
51) 4-Methyl-2-Pentanone	8.60	43	134427	14.958 ug/l	#	47
54) cis-1,3-Dichloropropene	8.60	75	55583	5.163 ug/l	#	59
59) 2-Hexanone	9.52	43	116419	17.207 ug/l	#	52
76) 1,2,3-Trichloropropane	11.12	75	196957	23.757 ug/l	#	34
81) trans-1,4-Dichloro-2-buten	11.12	75	196957	59.862 ug/l	#	12
92) 1,2-Dibromo-3-Chloropropan	12.97	75	159	2.638 ug/l	#	37

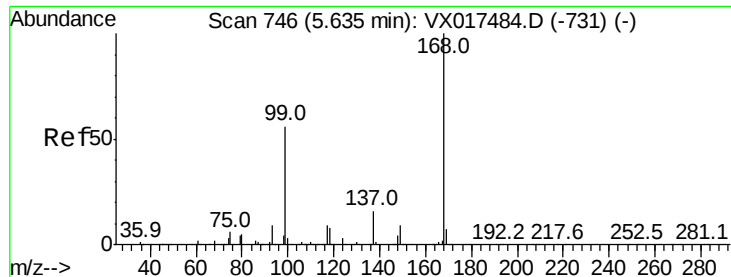
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
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: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

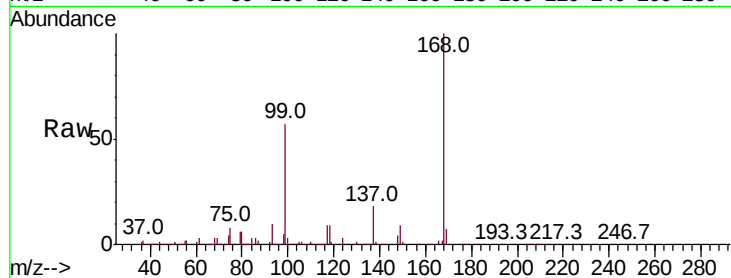
PB130720ZHE#20

Tot Ion:168 Resp: 565554

Ion Ratio Lower Upper

168 100

99 57.0 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

200000

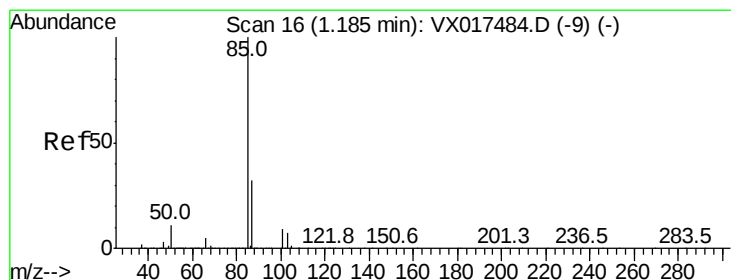
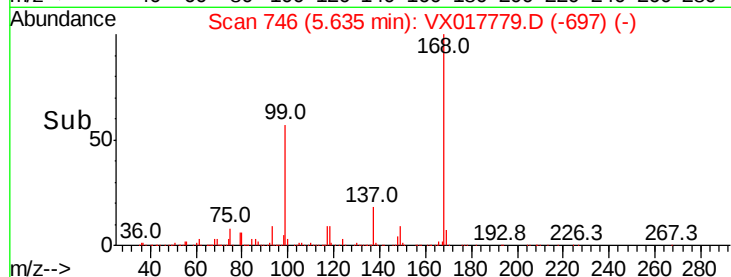
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017779.D

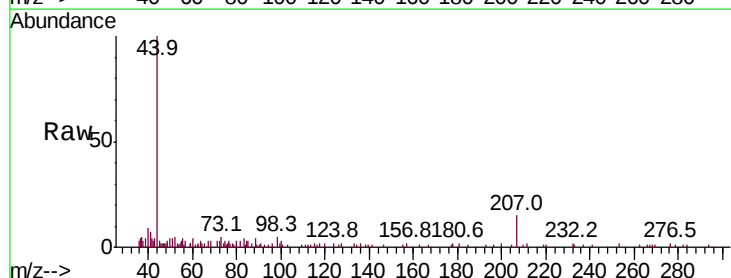
Acq: 04 Aug 2020 18:51

Tgt Ion: 85 Resp: 409

Ion Ratio Lower Upper

85 100

87 34.5 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

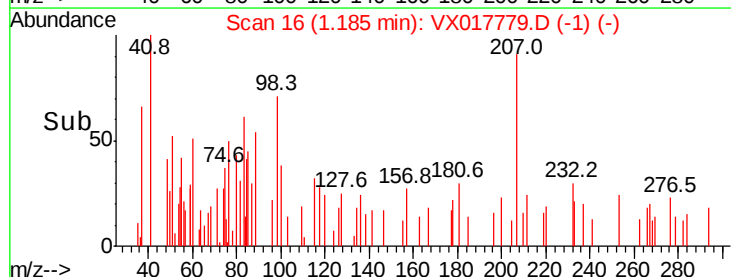
300

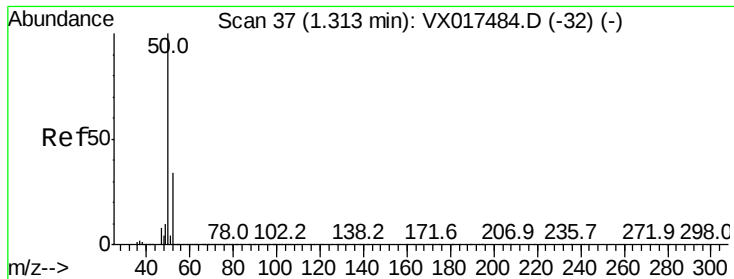
200

100

0

Time-->





#3

Chloromethane

Concen: 0.454 ug/l

RT: 1.32 min Scan# 39

Delta R.T. 0.01 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

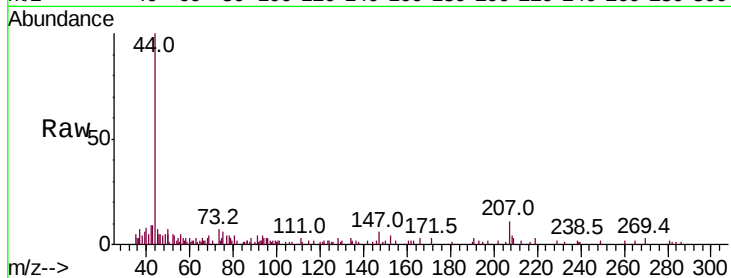
PB130720ZHE#20

Tot Ion: 50 Resp: 614

Ion Ratio Lower Upper

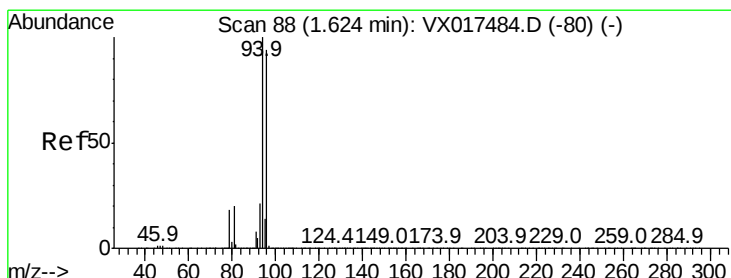
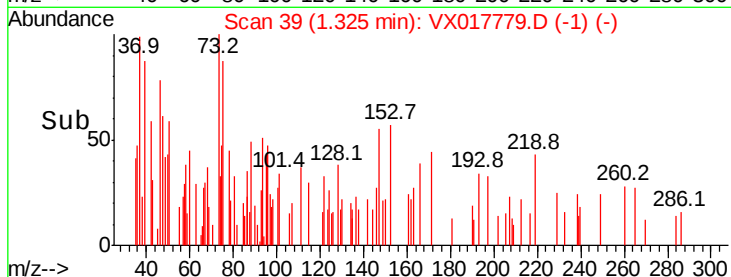
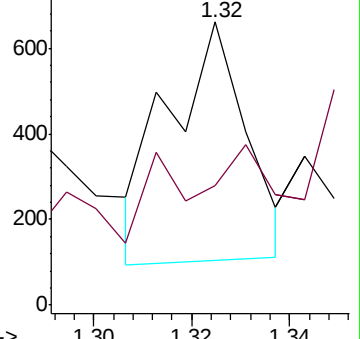
50 100

52 30.6 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: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX017779.D

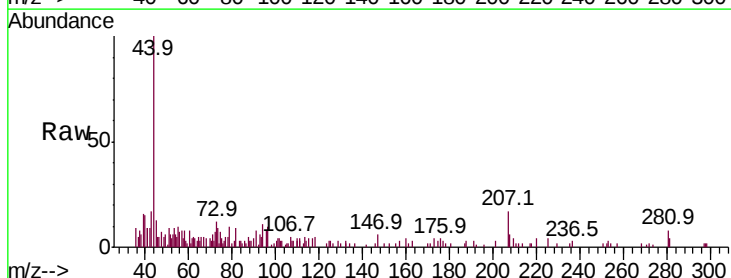
Acq: 04 Aug 2020 18:51

Tgt Ion: 94 Resp: 619

Ion Ratio Lower Upper

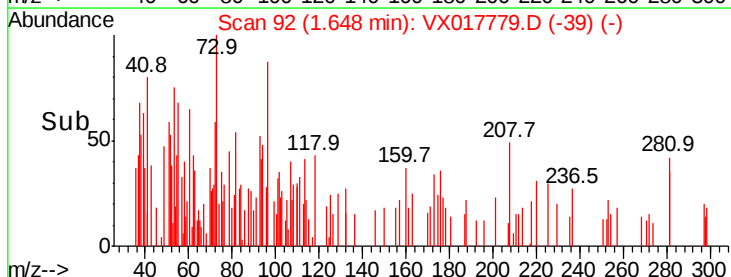
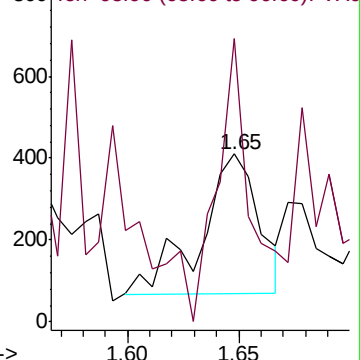
94 100

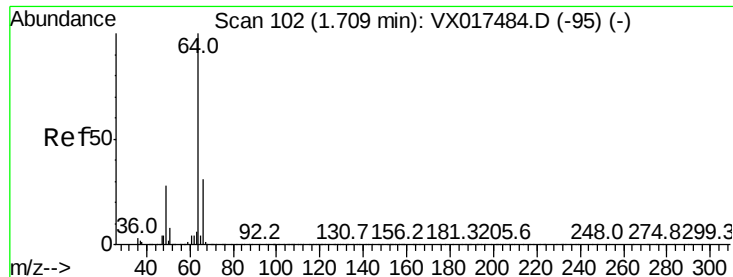
96 152.4 74.1 111.1#



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: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

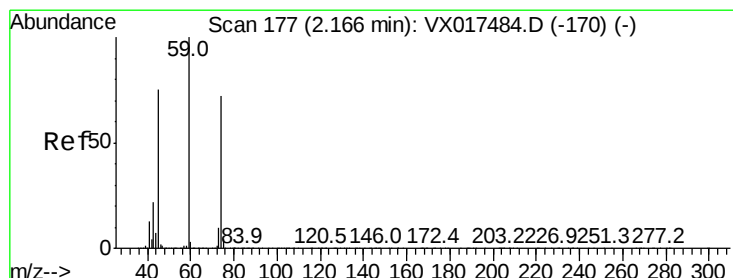
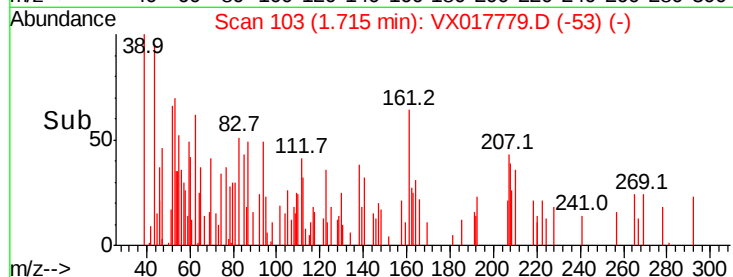
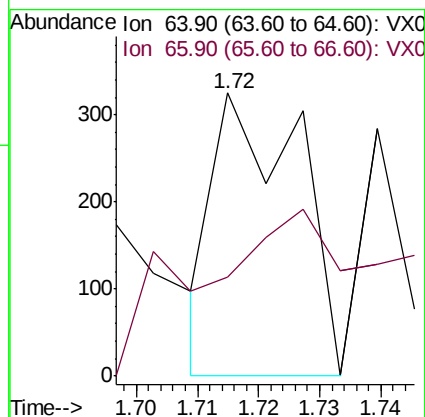
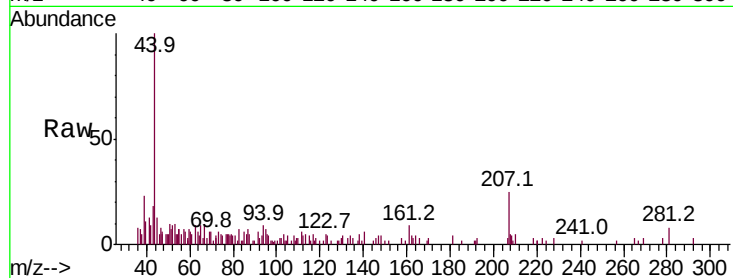
PB130720ZHE#20

Tot Ion: 64 Resp: 311

Ion Ratio Lower Upper

64 100

66 4.6 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017779.D

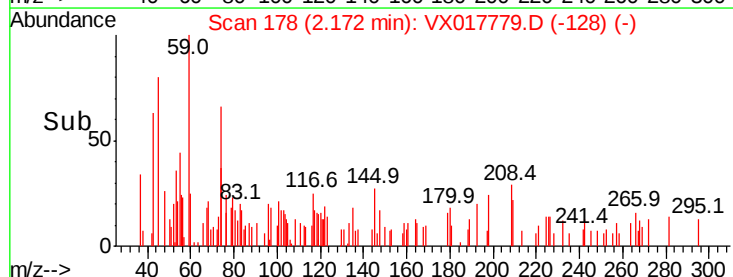
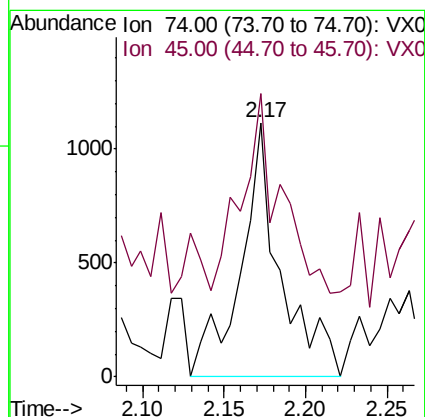
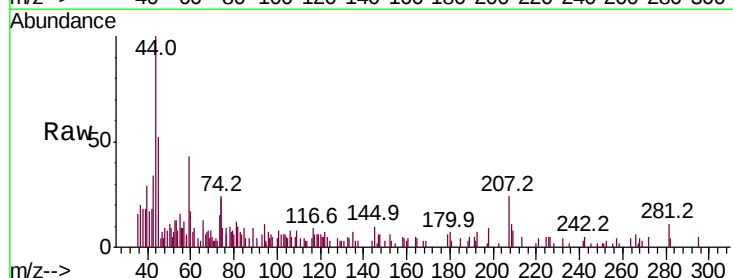
Acq: 04 Aug 2020 18:51

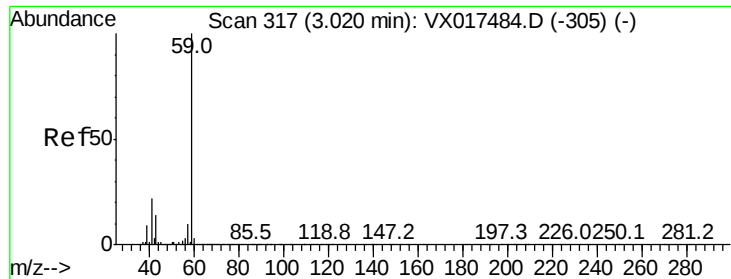
Tgt Ion: 74 Resp: 1894

Ion Ratio Lower Upper

74 100

45 74.9 50.8 152.5





#11

Tert butyl alcohol

Concen: 2.379 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

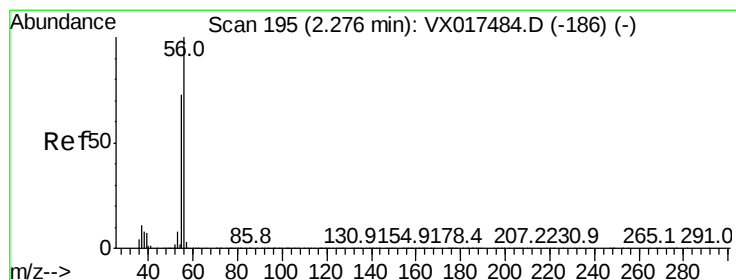
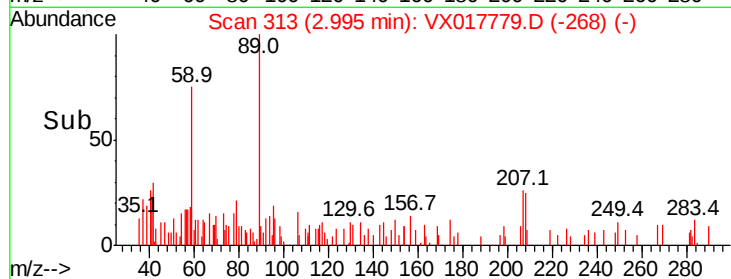
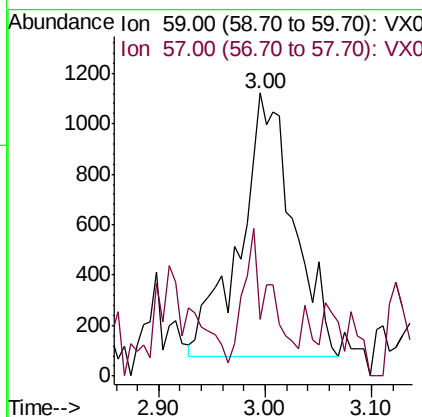
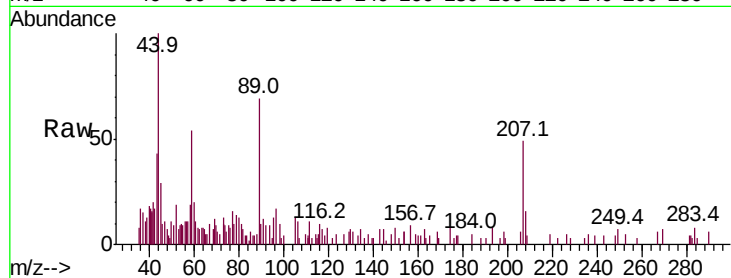
Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :
MSVOA_X
ClientSampleId :
PB130720ZHE#20

Tot Ion: 59 Resp: 3642

Ion	Ratio	Lower	Upper
59	100		
57	23.9	8.6	12.8#



#13

Acrolein

Concen: 4.537 ug/l

RT: 2.28 min Scan# 195

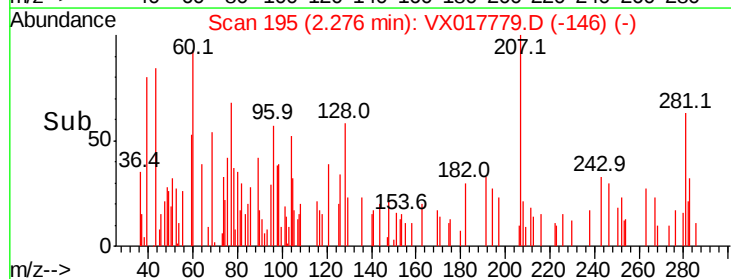
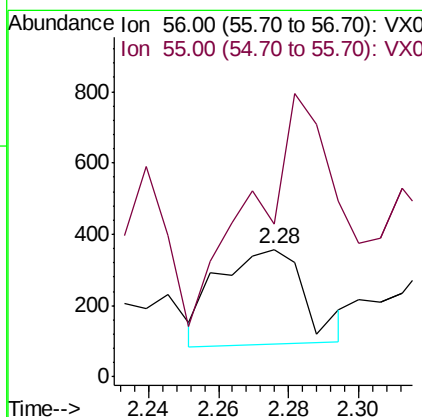
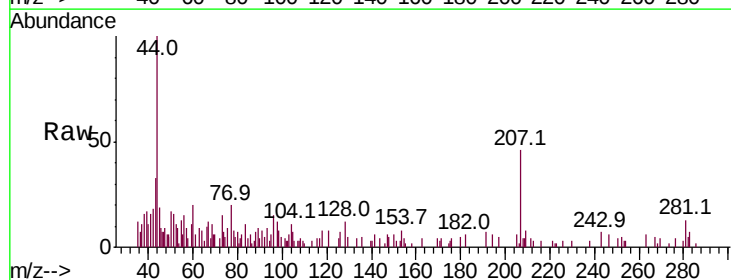
Delta R.T. -0.00 min

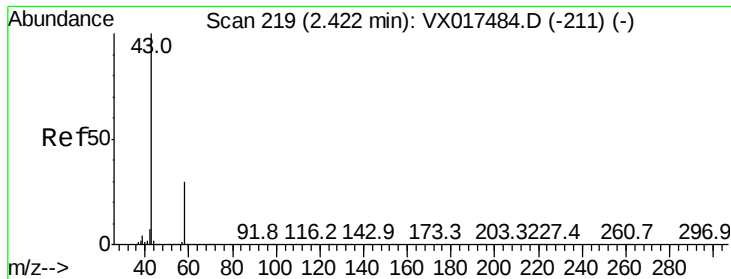
Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Tgt Ion: 56 Resp: 462

Ion	Ratio	Lower	Upper
56	100		
55	234.6	57.4	86.2#

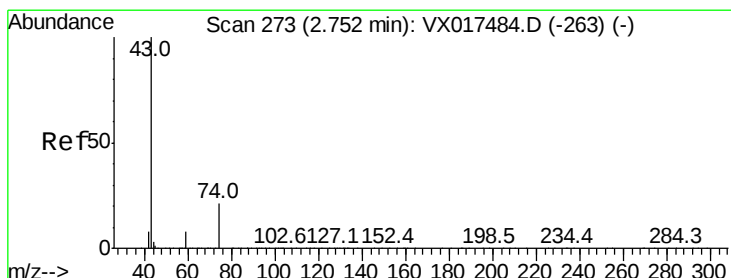
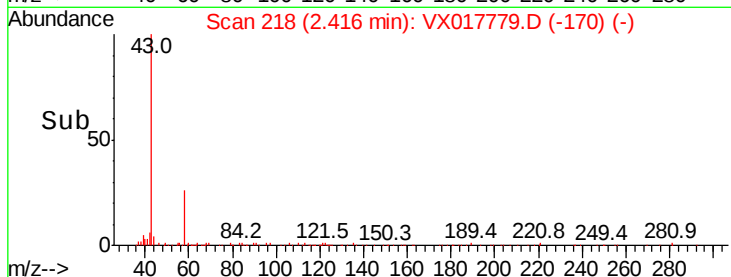
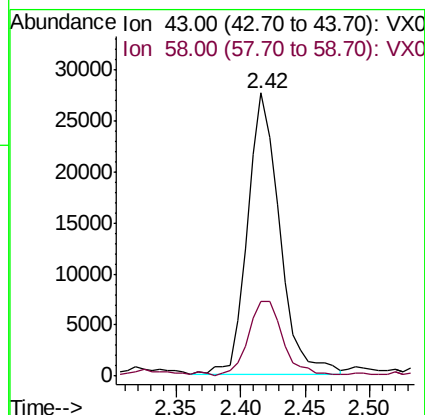
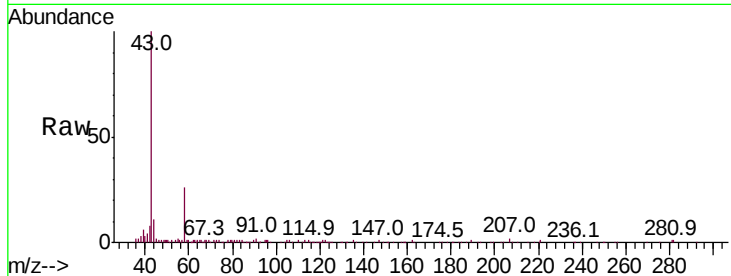




#16
Acetone
Concen: 14.895 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017779.D
Acq: 04 Aug 2020 18:51

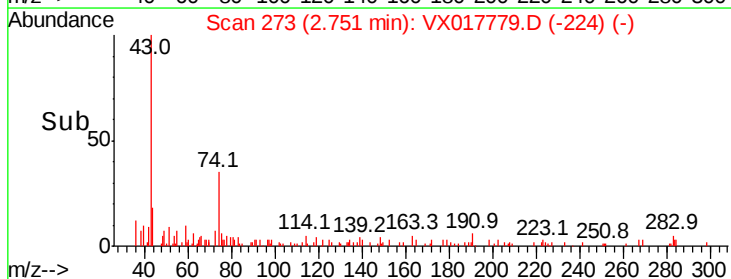
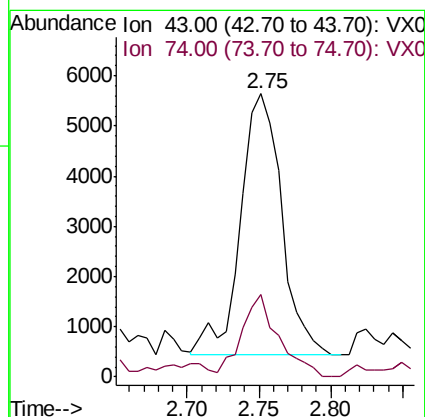
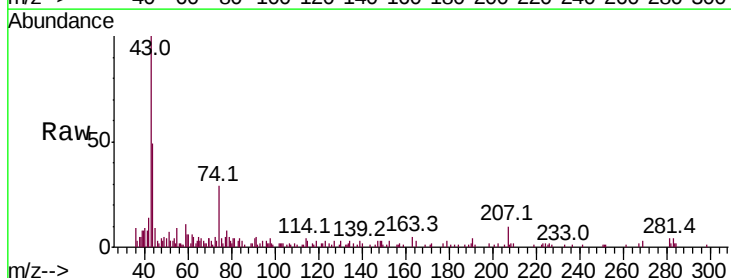
Instrument :
MSVOA_X
ClientSampleId :
PB130720ZHE#20

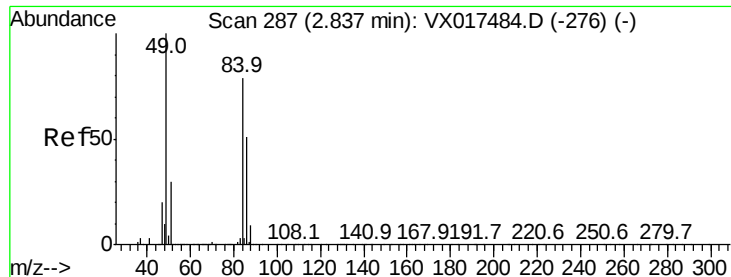
Tot Ion: 43 Resp: 47626
Ion Ratio Lower Upper
43 100
58 25.9 24.2 36.4



#18
Methyl Acetate
Concen: 1.375 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX017779.D
Acq: 04 Aug 2020 18:51

Tgt Ion: 43 Resp: 10351
Ion Ratio Lower Upper
43 100
74 28.3 17.5 26.3#

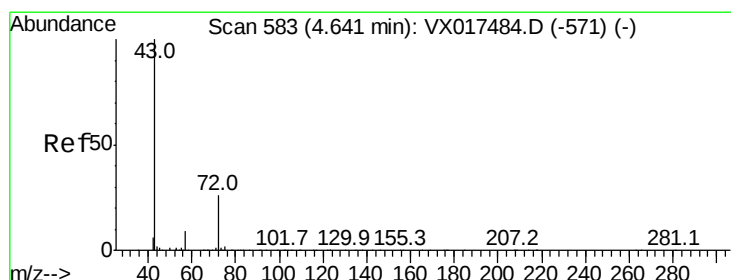
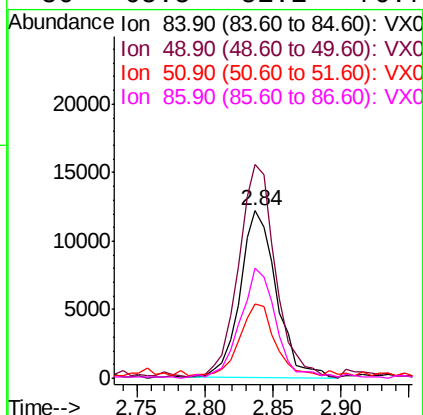
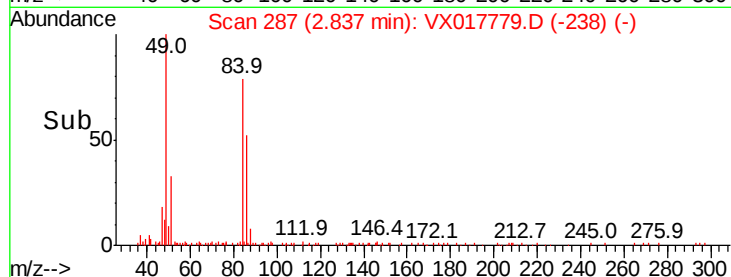
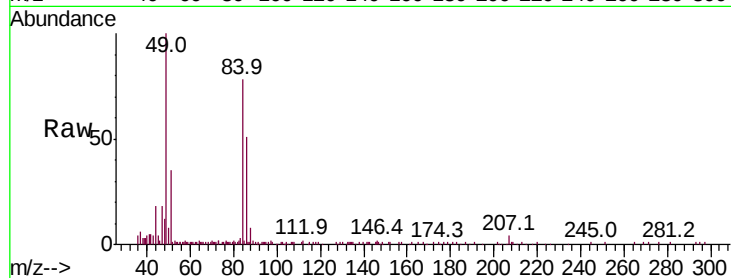




#20
Methvlene Chloride
Concen: 2.564 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017779.D
Acq: 04 Aug 2020 18:51

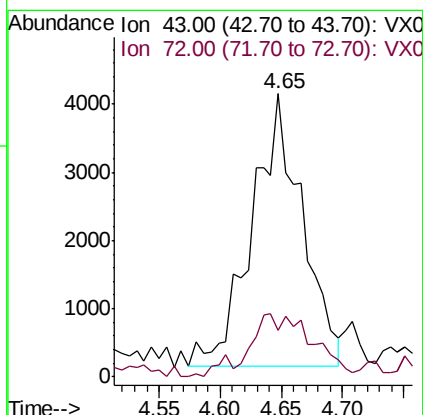
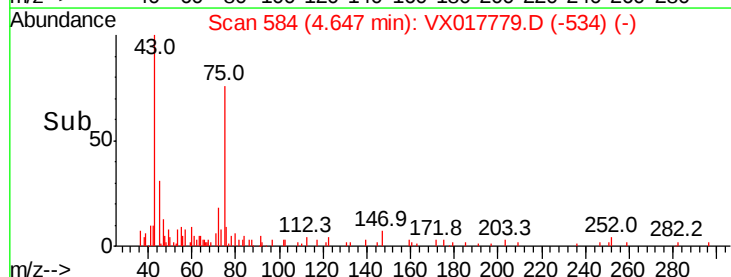
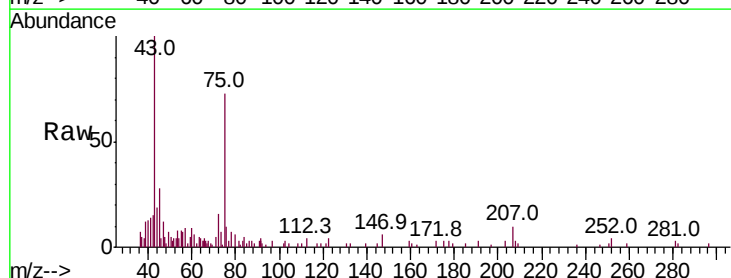
Instrument :
MSVOA_X
ClientSampleId :
PB130720ZHE#20

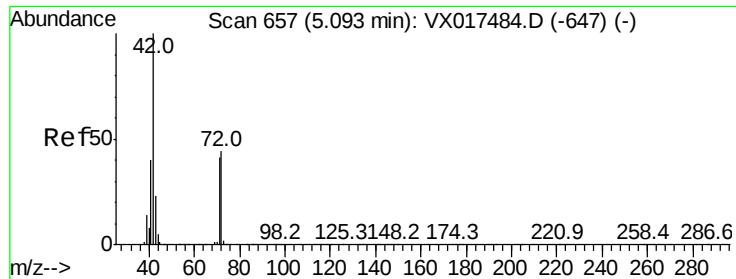
Tot Ion:	84	Resp:	22777
Ion	Ratio	Lower	Upper
84	100		
49	128.5	100.3	150.5
51	43.1	30.5	45.7
86	65.5	51.1	76.7



#25
2-Butanone
Concen: 2.510 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017779.D
Acq: 04 Aug 2020 18:51

Tgt Ion:	43	Resp:	11400
Ion	Ratio	Lower	Upper
43	100		
72	16.9	19.0	28.4#





#29

Tetrahydrofuran

Concen: 1.530 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

PB130720ZHE#20

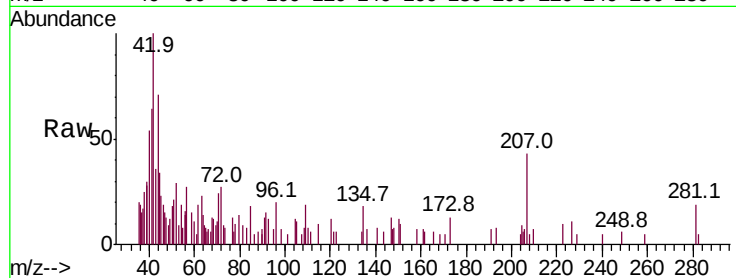
Tot Ion: 42 Resp: 4306

Ion Ratio Lower Upper

42 100

72 4.7 35.5 53.3#

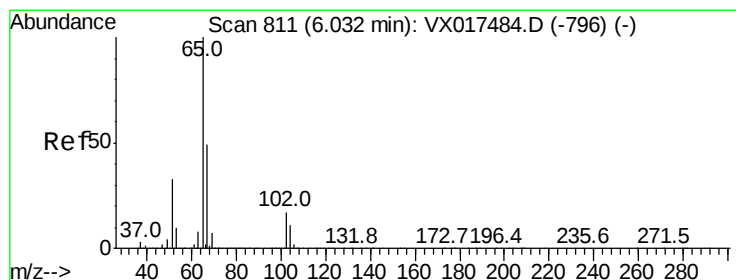
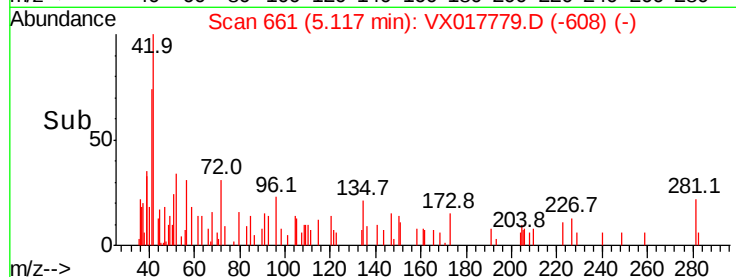
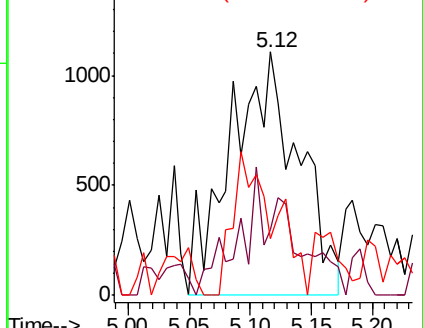
71 0.0 33.0 49.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.521 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017779.D

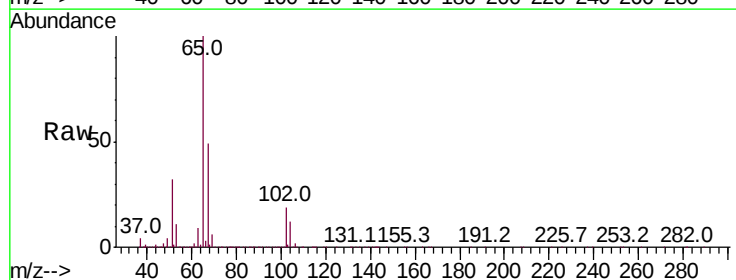
Acq: 04 Aug 2020 18:51

Tgt Ion: 65 Resp: 374287

Ion Ratio Lower Upper

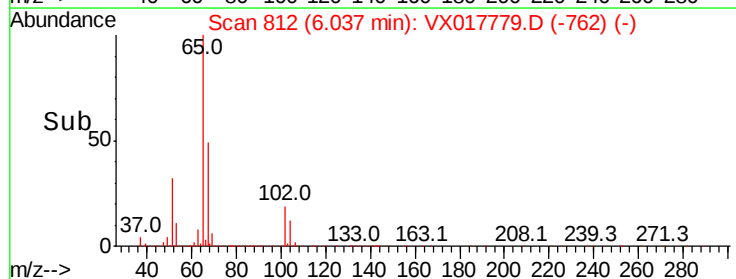
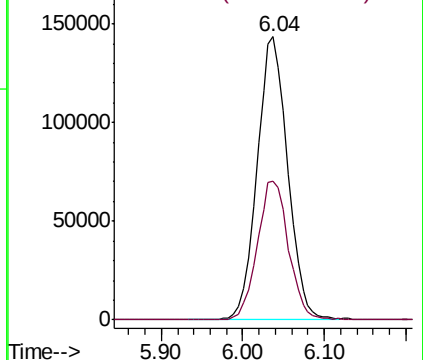
65 100

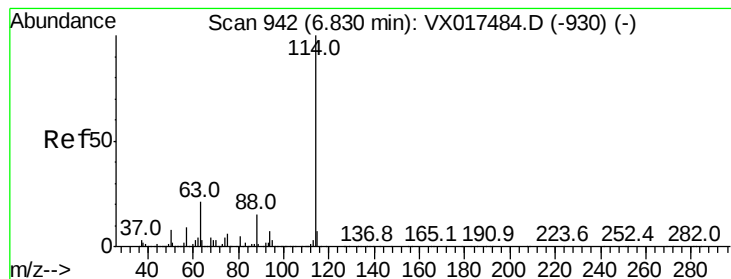
67 50.2 0.0 102.8



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: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

PB130720ZHE#20

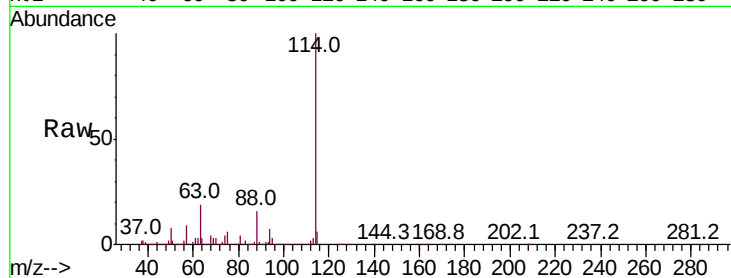
Tot Ion:114 Resp: 869893

Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.6

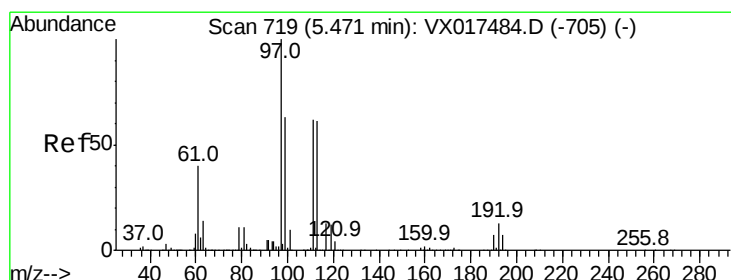
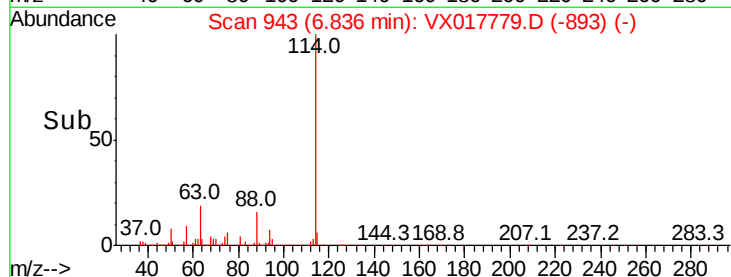
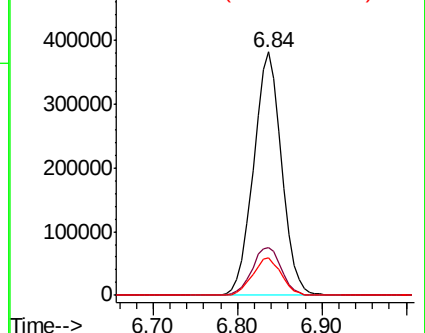
88 15.6 0.0 33.4



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: 49.995 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

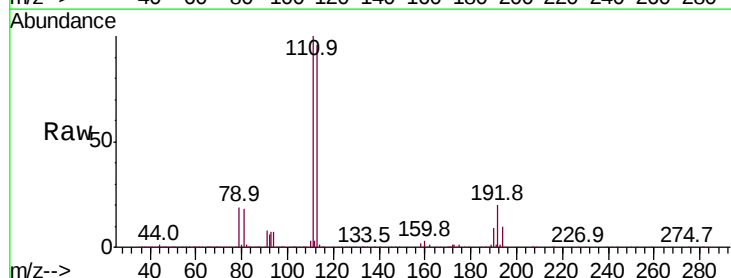
Tgt Ion:113 Resp: 290868

Ion Ratio Lower Upper

113 100

111 103.2 80.7 121.1

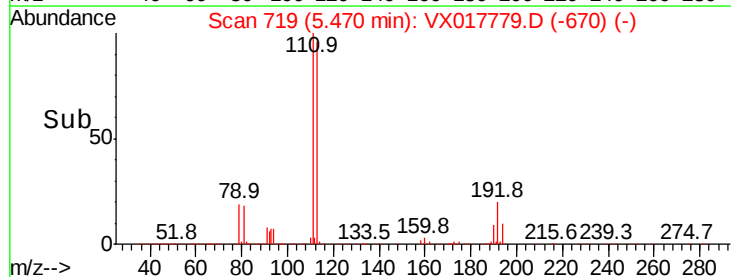
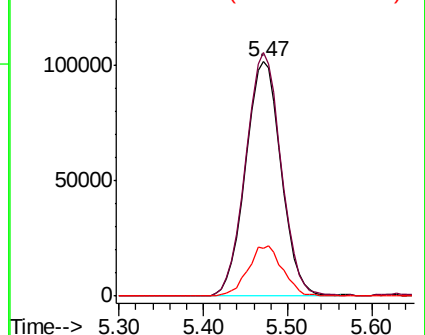
192 20.8 16.9 25.3

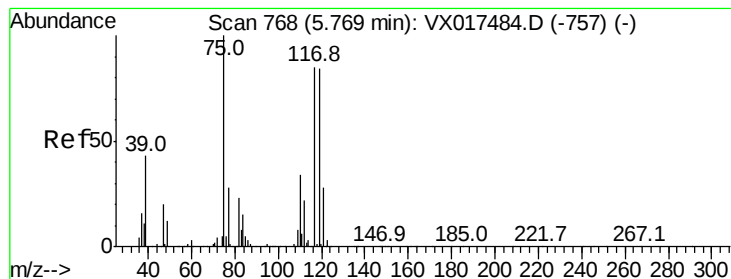


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.148 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

PB130720ZHE#20

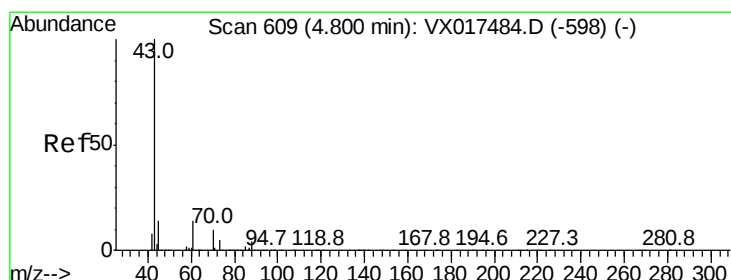
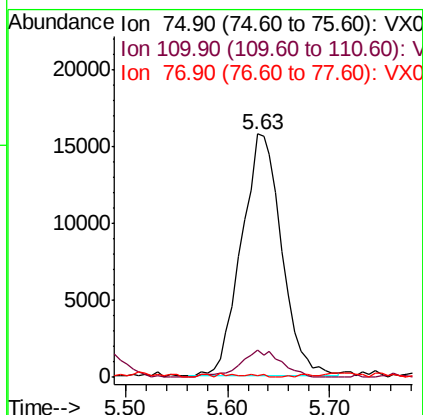
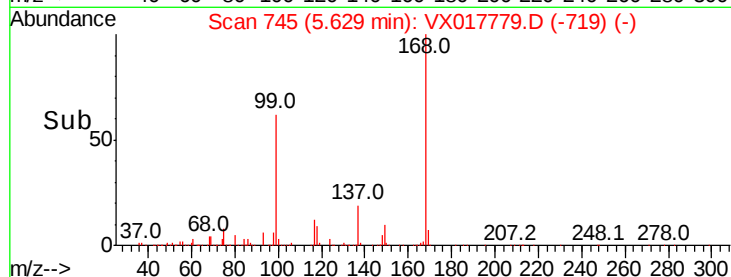
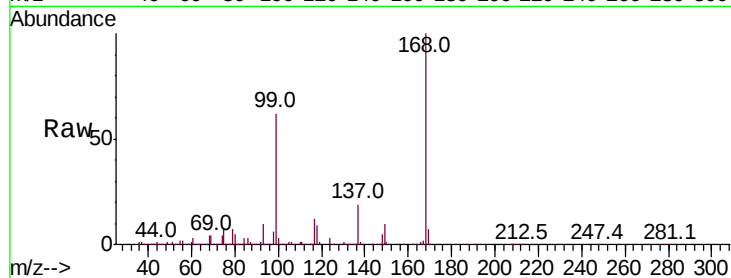
Tot Ion: 75 Resp: 42951

Ion Ratio Lower Upper

75 100

110 11.7 18.1 54.3#

77 0.6 24.6 37.0#



#37

Ethyl Acetate

Concen: 0.309 ug/l

RT: 4.81 min Scan# 610

Delta R.T. 0.01 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

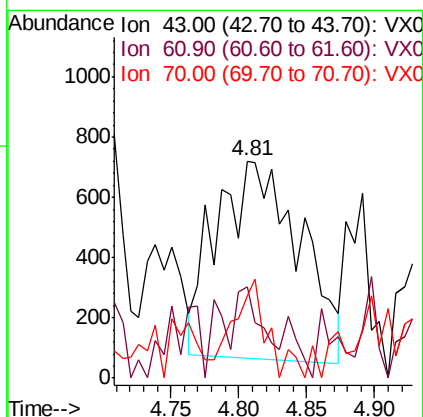
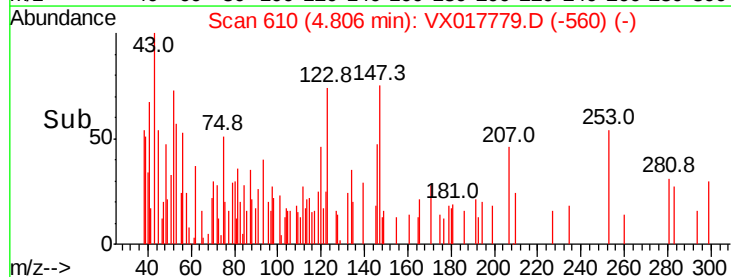
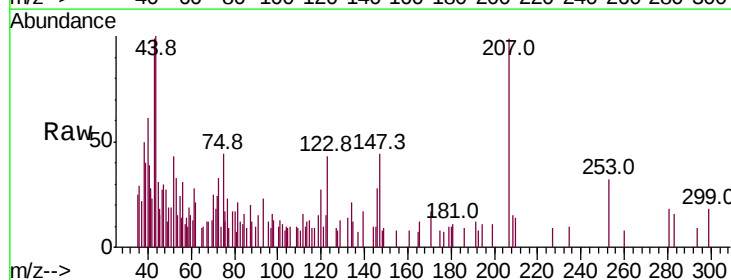
Tgt Ion: 43 Resp: 2820

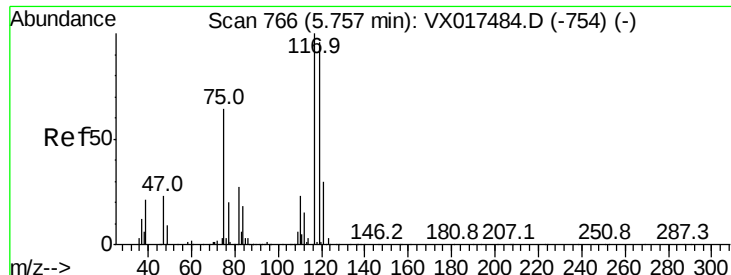
Ion Ratio Lower Upper

43 100

61 13.1 10.7 16.1

70 20.2 8.5 12.7#





#38

Carbon Tetrachloride

Concen: 5.700 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

PB130720ZHE#20

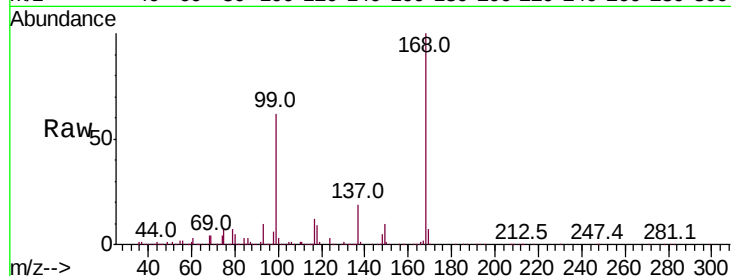
Tot Ion:117 Resp: 57745

Ion Ratio Lower Upper

117 100

119 6.7 75.4 113.0#

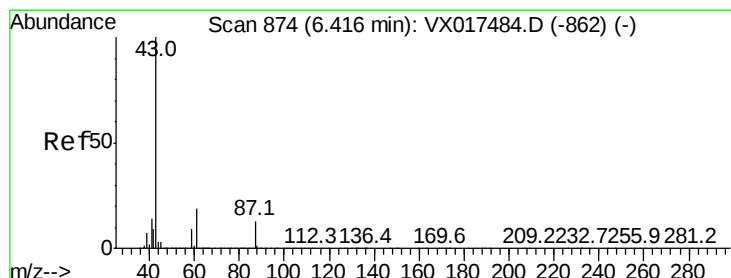
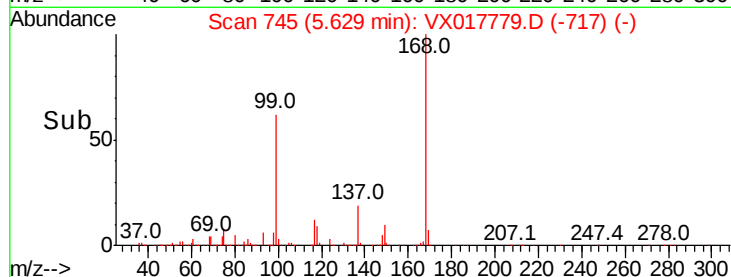
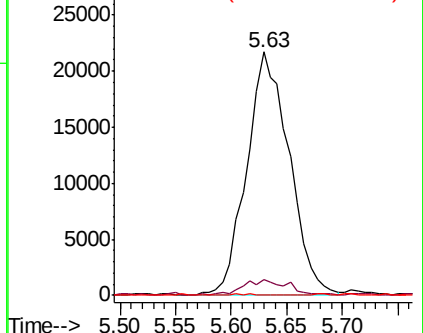
121 0.0 24.3 36.5#



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



#43

Isopropyl Acetate

Concen: 8.812 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

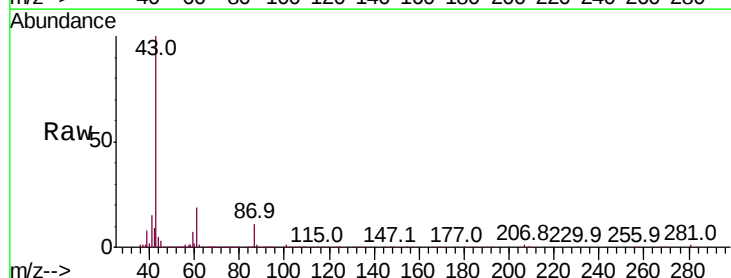
Tgt Ion: 43 Resp: 132723

Ion Ratio Lower Upper

43 100

61 19.1 15.5 23.3

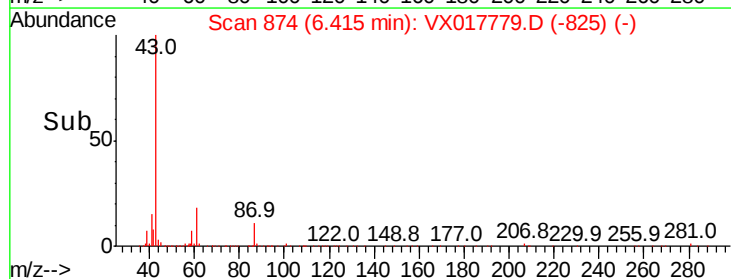
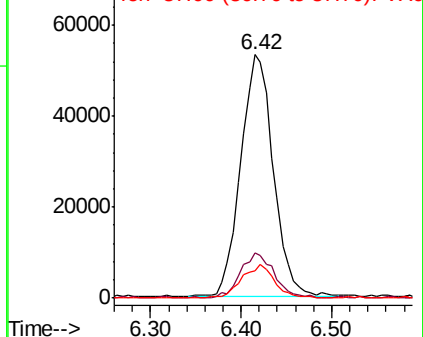
87 14.0 10.5 15.7

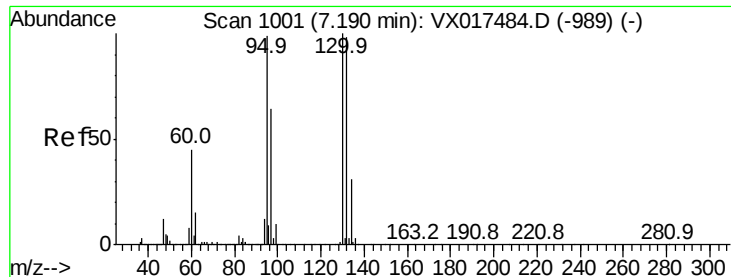


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: 0.231 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

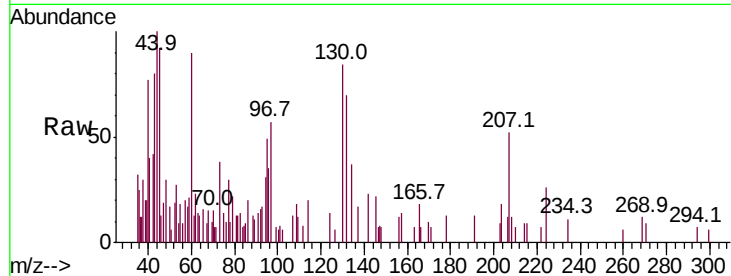
PB130720ZHE#20

Tot Ion:130 Resp: 1615

Ion Ratio Lower Upper

130 100

95 136.5 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

600

400

200

0

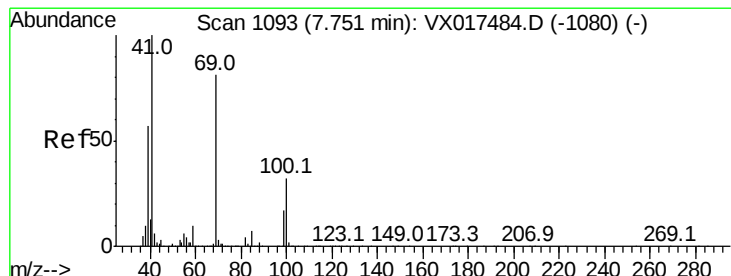
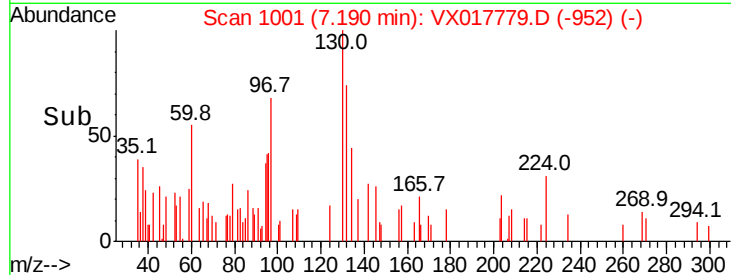
7.10

7.15

7.20

7.25

Time-->



#48

Methyl methacrylate

Concen: 27.330 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

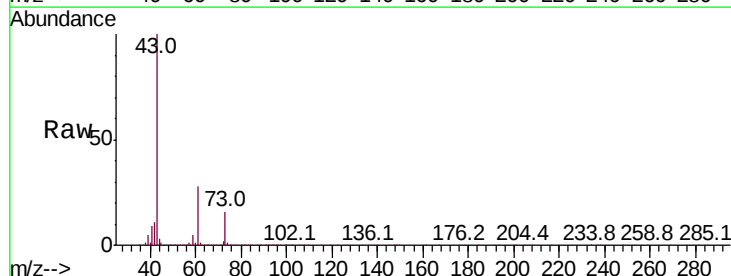
Tgt Ion: 41 Resp: 204045

Ion Ratio Lower Upper

41 100

69 0.6 63.1 94.7#

39 54.5 45.1 67.7



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

7.85

150000

100000

50000

0

7.75

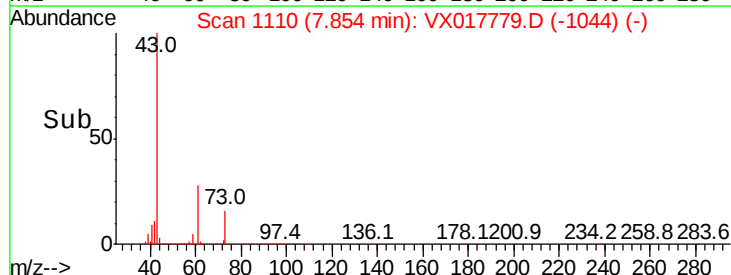
7.80

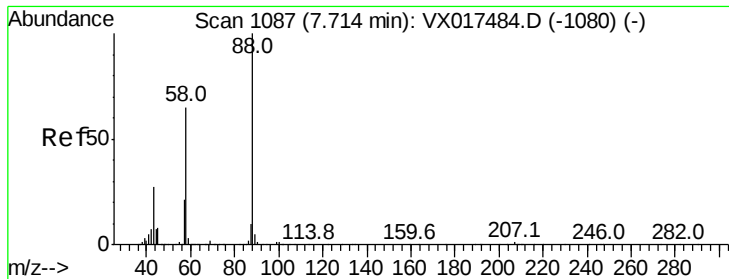
7.85

7.90

7.95

Time-->





#49

1,4-Dioxane

Concen: 0.692 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

PB130720ZHE#20

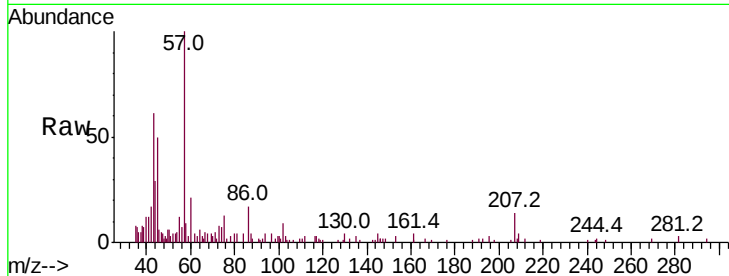
Tot Ion: 88 Resp: 99

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

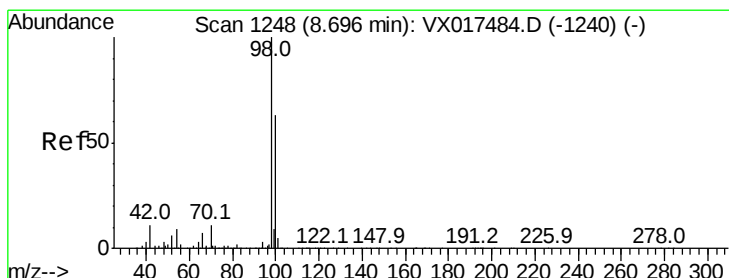
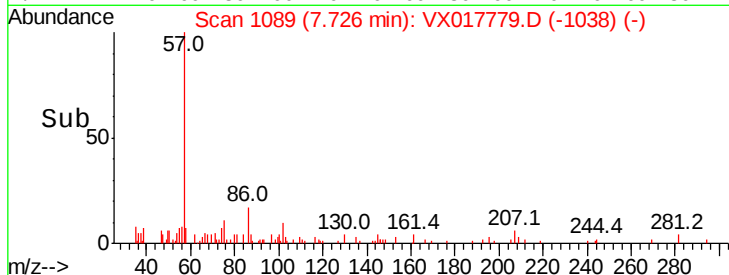
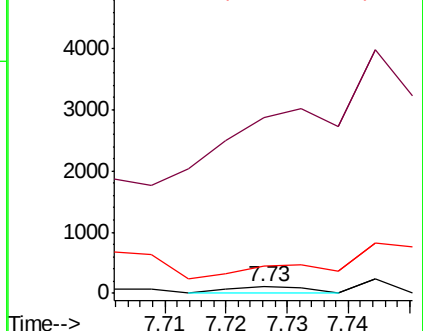
58 0.0 58.3 87.5#



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: 50.101 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017779.D

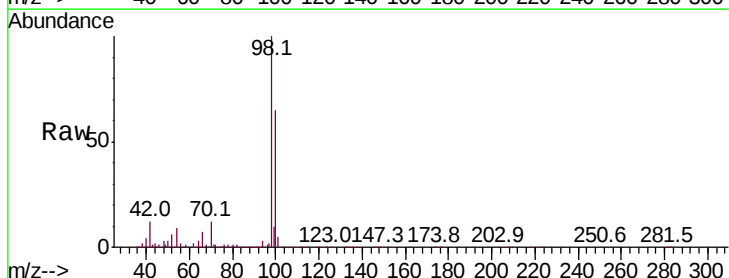
Acq: 04 Aug 2020 18:51

Tgt Ion: 98 Resp: 1051507

Ion Ratio Lower Upper

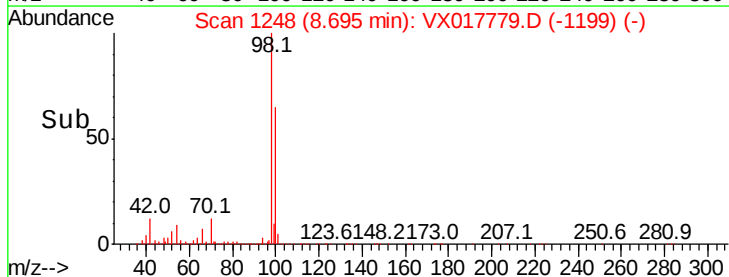
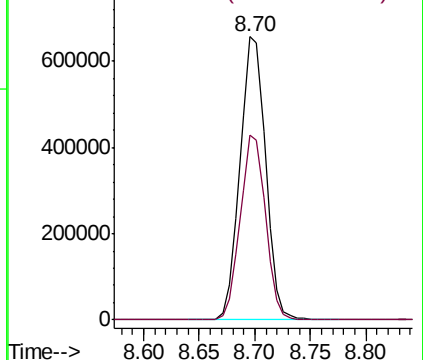
98 100

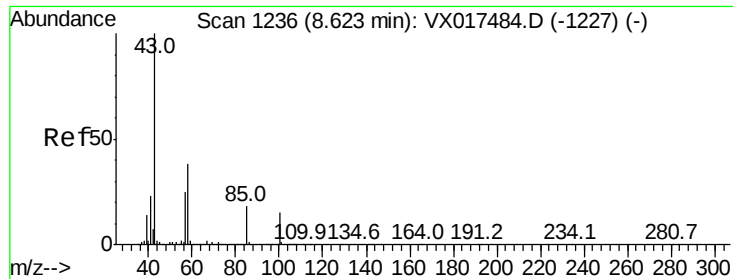
100 64.4 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 14.958 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

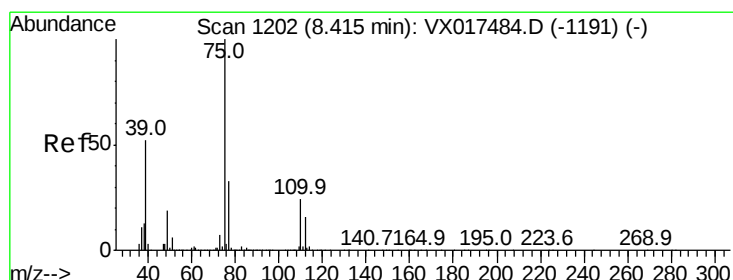
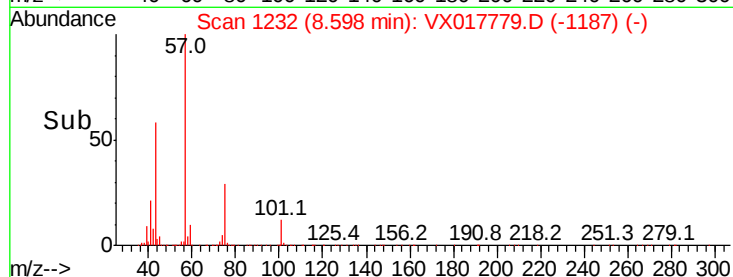
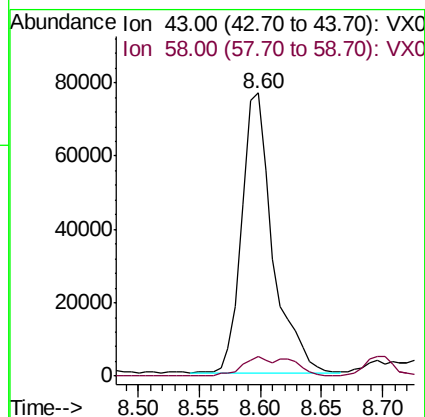
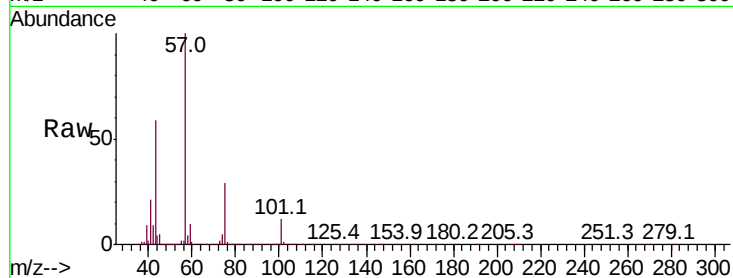
Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :
MSVOA_X
ClientSampleId :
PB130720ZHE#20

Tot Ion: 43 Resp: 134427

Ion	Ratio	Lower	Upper
43	100		
58	6.2	31.0	46.4#



#54

cis-1,3-Dichloropropene

Concen: 5.163 ug/l

RT: 8.60 min Scan# 1232

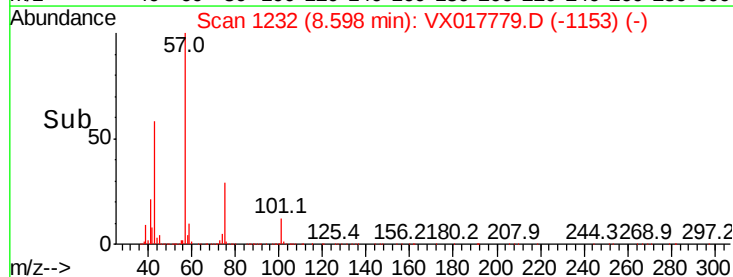
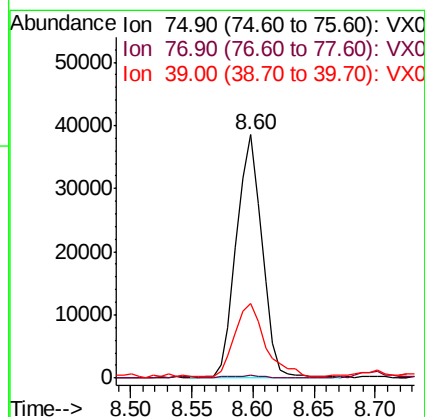
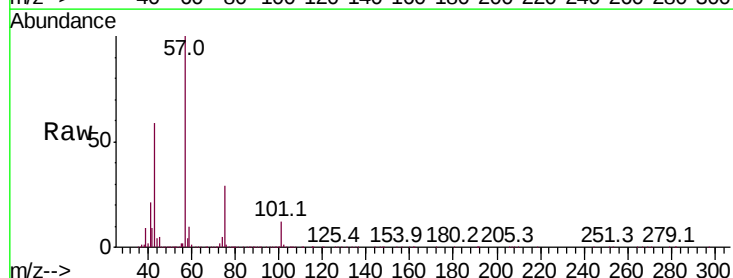
Delta R.T. 0.18 min

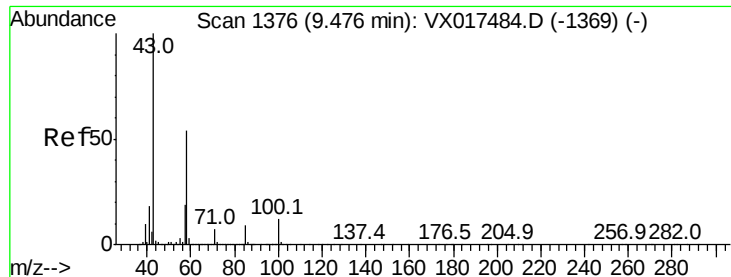
Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Tgt Ion: 75 Resp: 55583

Ion	Ratio	Lower	Upper
75	100		
77	0.5	25.5	38.3#
39	29.9	41.8	62.8#

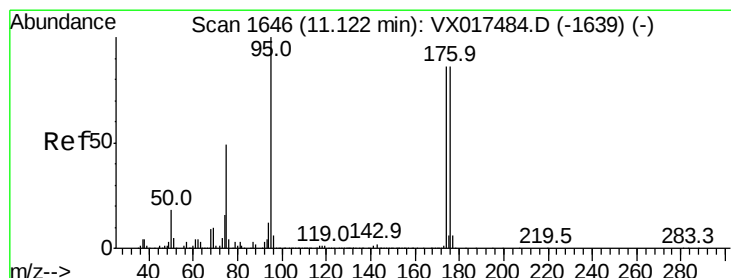
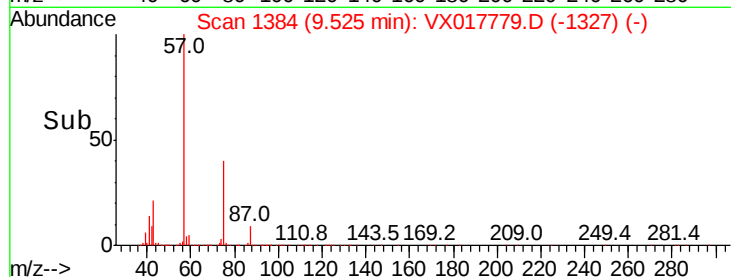
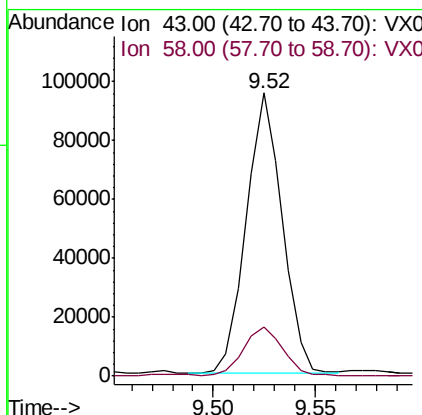
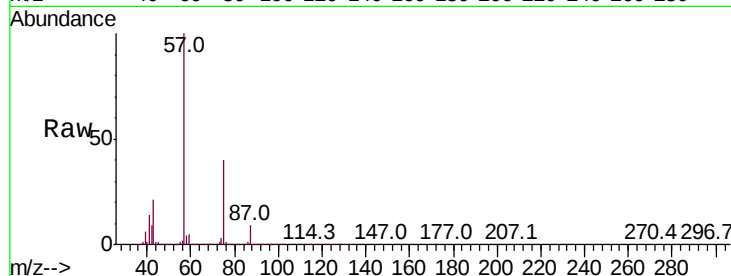




#59
2-Hexanone
Concen: 17.207 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX017779.D
Acq: 04 Aug 2020 18:51

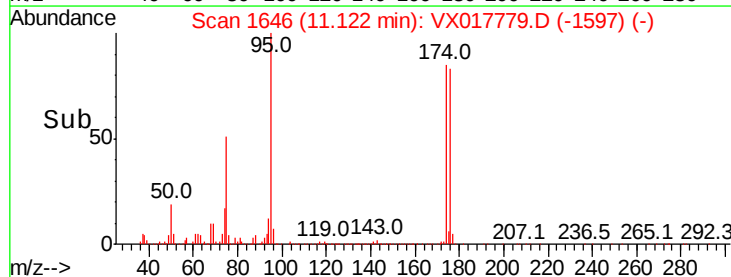
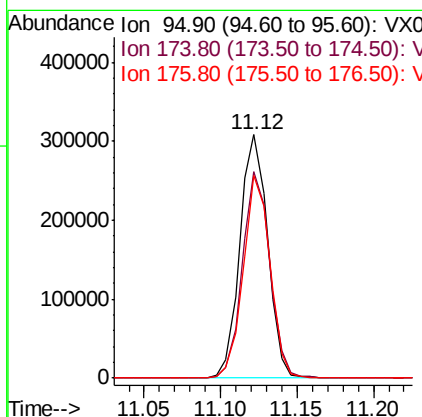
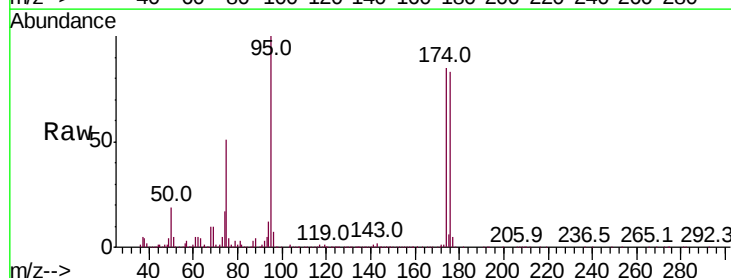
Instrument :
MSVOA_X
ClientSampleId :
PB130720ZHE#20

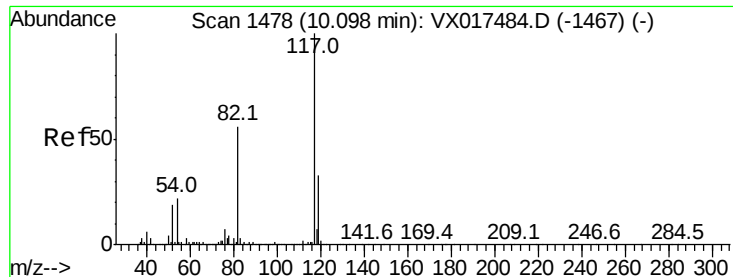
Tot Ion: 43 Resp: 116419
Ion Ratio Lower Upper
43 100
58 19.1 26.6 79.8#



#62
4-Bromofluorobenzene
Concen: 46.107 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017779.D
Acq: 04 Aug 2020 18:51

Tgt Ion: 95 Resp: 387273
Ion Ratio Lower Upper
95 100
174 83.8 0.0 169.0
176 80.6 0.0 161.0

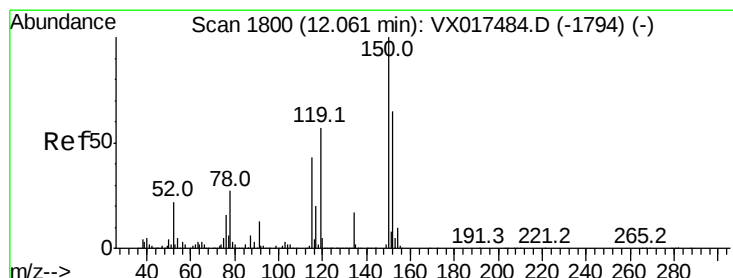
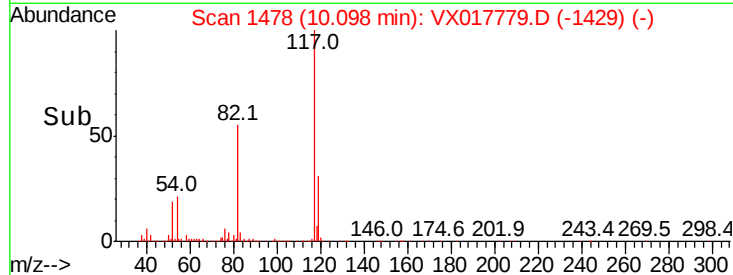
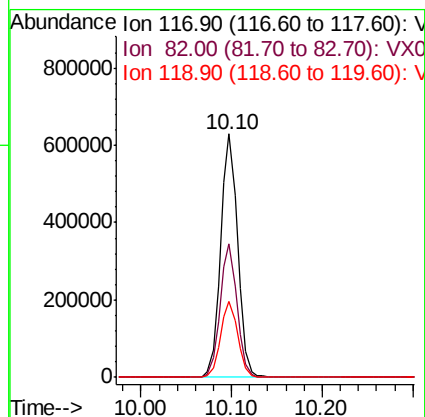
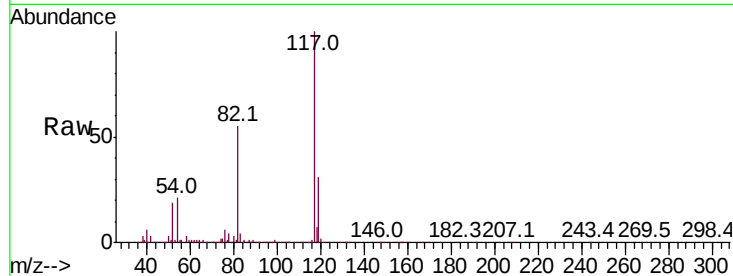




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017779.D
Acq: 04 Aug 2020 18:51

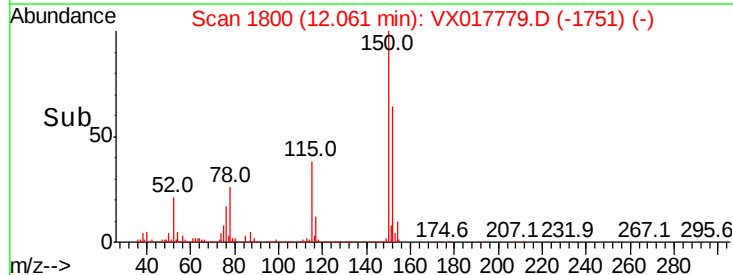
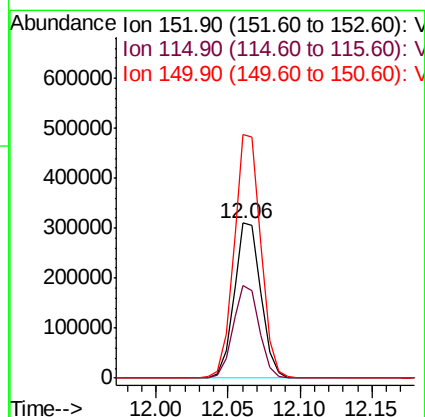
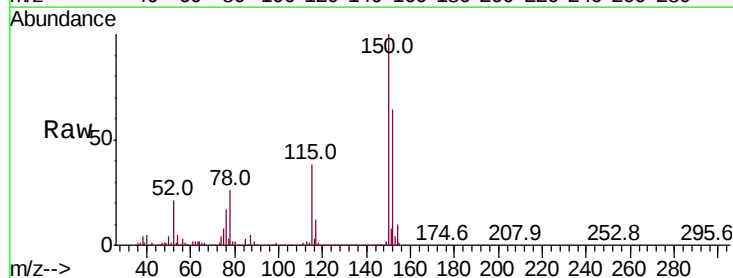
Instrument :
MSVOA_X
ClientSampleId :
PB130720ZHE#20

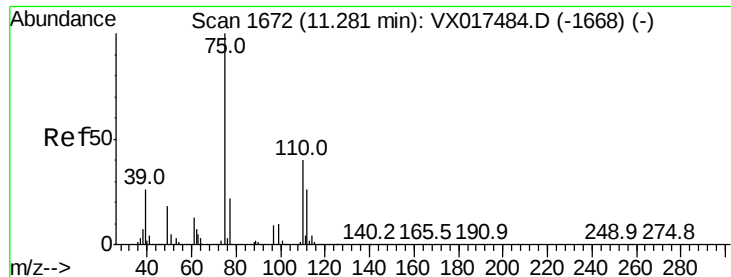
Tot Ion:117 Resp: 825085
Ion Ratio Lower Upper
117 100
82 54.8 44.0 66.0
119 31.0 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017779.D
Acq: 04 Aug 2020 18:51

Tgt Ion:152 Resp: 403029
Ion Ratio Lower Upper
152 100
115 58.1 65.5 196.6#
150 156.6 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 23.757 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

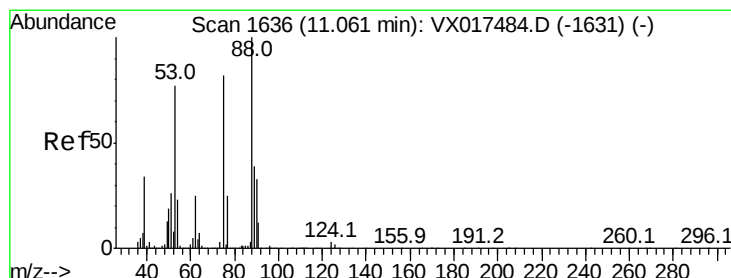
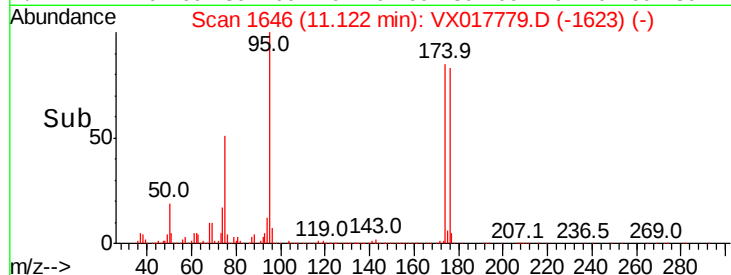
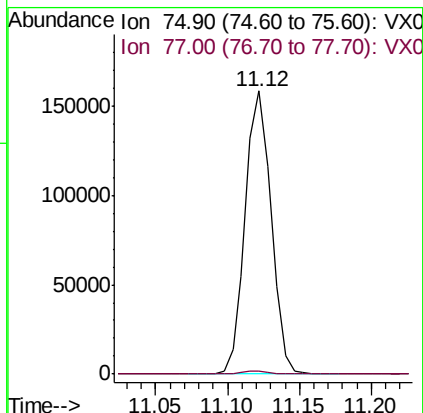
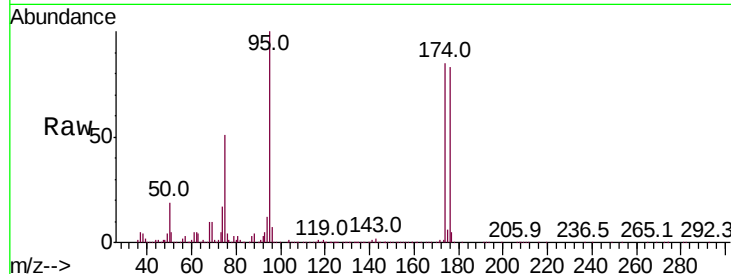
PB130720ZHE#20

Tot Ion: 75 Resp: 196957

Ion Ratio Lower Upper

75 100

77 1.3 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.862 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

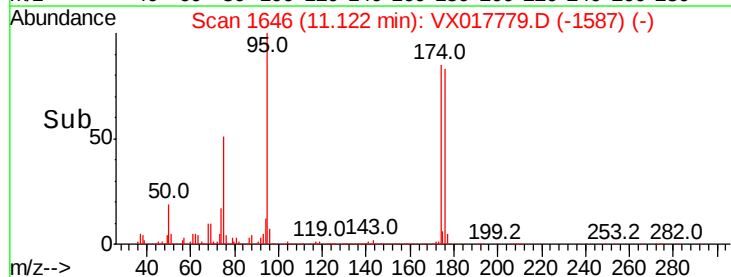
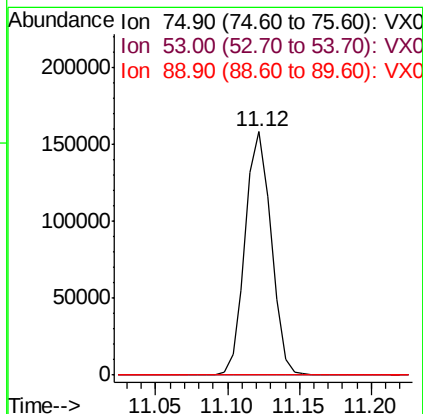
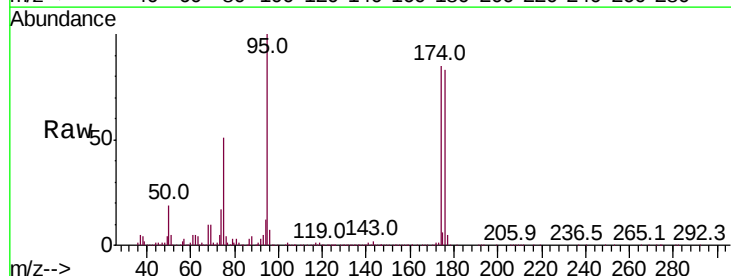
Tgt Ion: 75 Resp: 196957

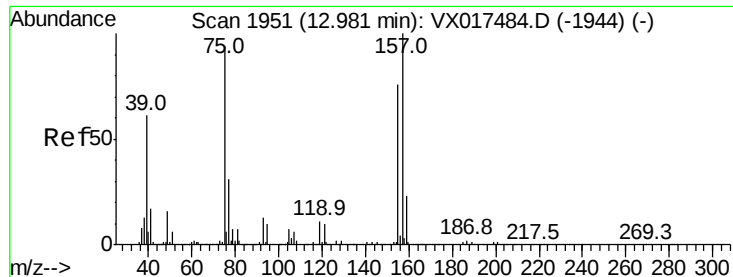
Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

89 0.0 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.638 ug/l

RT: 12.97 min Scan# 1949

Delta R.T. -0.01 min

Lab File: VX017779.D

Acq: 04 Aug 2020 18:51

Instrument :

MSVOA_X

ClientSampleId :

PB130720ZHE#20

Tot Ion: 75 Resp: 159

Ion Ratio Lower Upper

75 100

155 75.5 42.3 126.8

157 0.0 54.3 162.9#

