

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070620\
 Data File : VX017175.D
 Acq On : 06 Jul 2020 17:56
 Operator : JC/SP
 Sample : L3159-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 54BR-20200629

Quant Time: Jul 07 06:52:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	279188	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	462133	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	473801	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	268802	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	173320	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
35) Dibromofluoromethane	5.46	113	150065	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
50) Toluene-d8	8.70	98	560479	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	11.12	95	237826	56.28	ug/l	0.00
Spiked Amount			Recovery	=	112.56%	

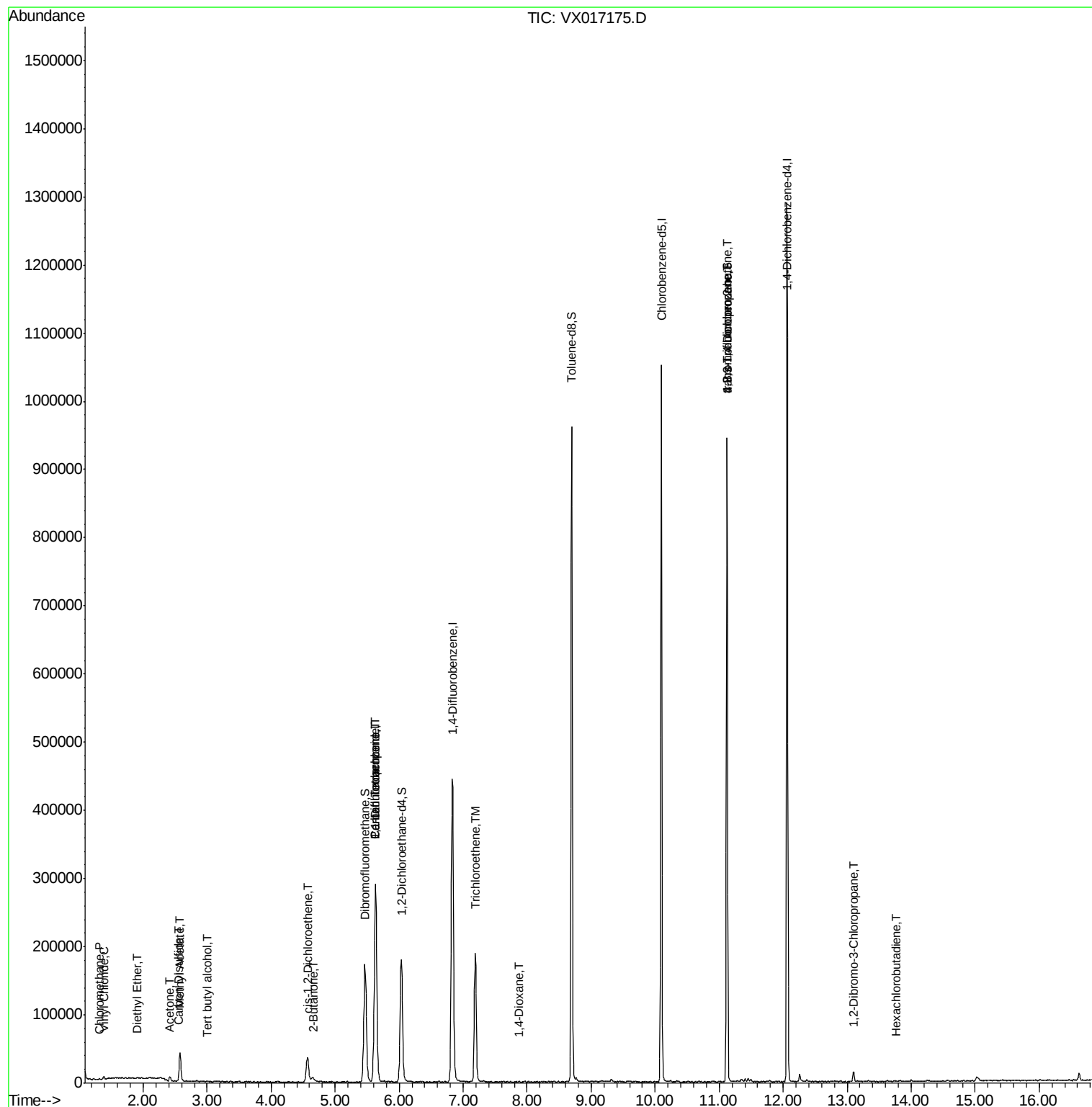
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	931	0.285	ug/l	99
4) Vinyl Chloride	1.39	62	1521	0.501	ug/l	93
8) Diethyl Ether	1.90	74	158	0.469	ug/l	64
11) Tert butyl alcohol	3.00	59	469	0.714	ug/l	100
16) Acetone	2.42	43	7446	5.783	ug/l	98
17) Carbon Disulfide	2.56	76	1444	0.210	ug/l #	94
18) Methyl Acetate	2.57	43	11200	3.332	ug/l #	52
20) Methylene Chloride	2.84	84	498	Below Cal	#	92
25) 2-Butanone	4.65	43	696	0.324	ug/l #	49
27) cis-1,2-Dichloroethene	4.57	96	23835	6.863	ug/l	89
36) 1,1-Dichloropropene	5.63	75	19668	4.503	ug/l #	51
38) Carbon Tetrachloride	5.63	117	26496	5.508	ug/l #	17
44) Trichloroethene	7.19	130	74857	20.959	ug/l	100
49) 1,4-Dioxane	7.87	88	44	0.555	ug/l #	24
76) 1,2,3-Trichloropropane	11.12	75	117425	22.215	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	117425	57.529	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	790	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	13.09	75	454	0.344	ug/l #	1
94) Hexachlorobutadiene	13.76	225	254	0.962	ug/l	90

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

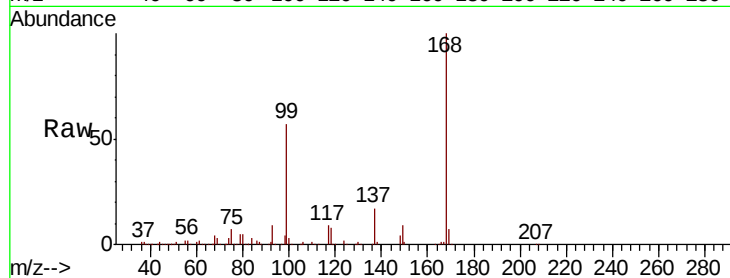
54BR-20200629

Tot Ion:168 Resp: 279188

Ion Ratio Lower Upper

168 100

99 56.6 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

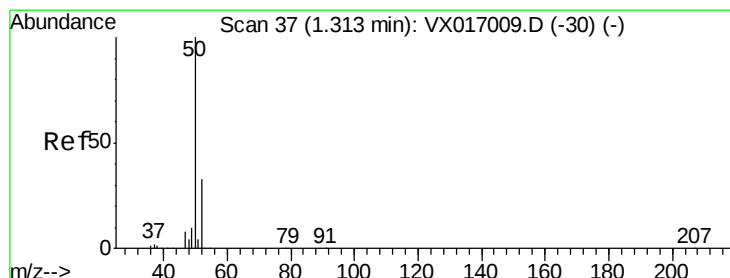
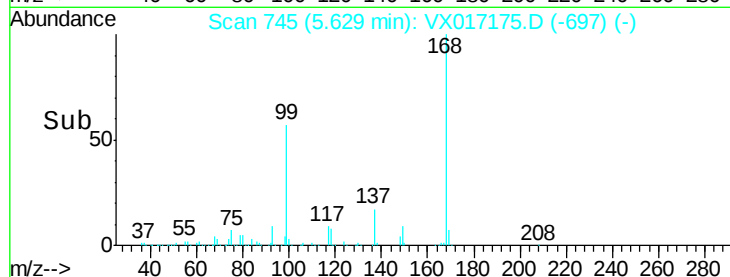
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.285 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017175.D

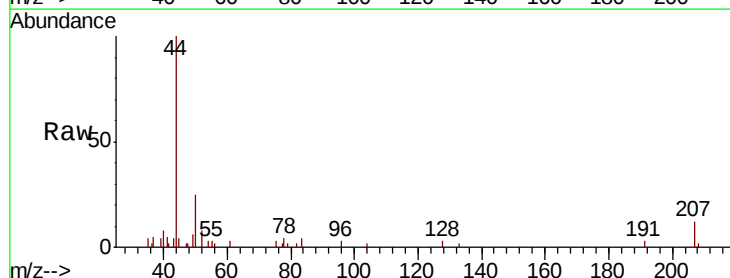
Acq: 06 Jul 2020 17:56

Tgt Ion: 50 Resp: 931

Ion Ratio Lower Upper

50 100

52 32.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

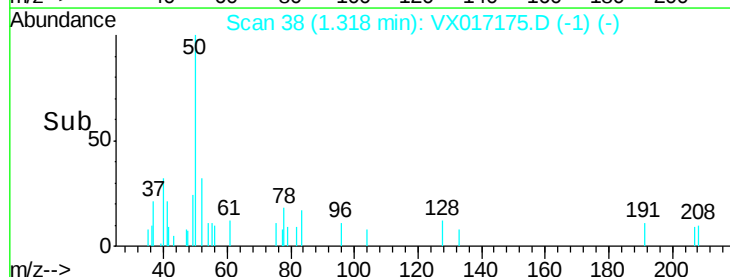
600

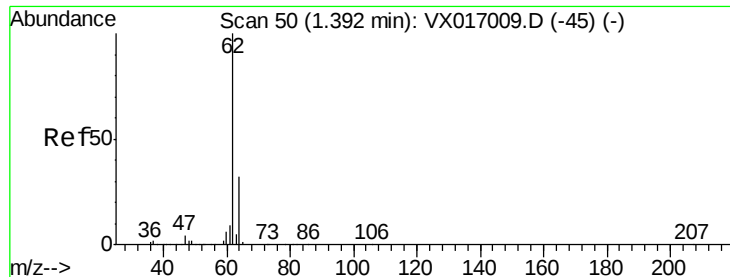
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.501 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

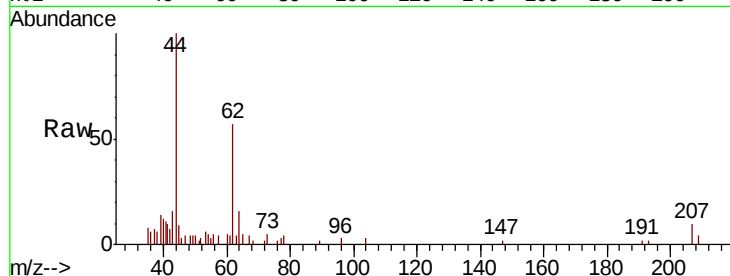
54BR-20200629

Tot Ion: 62 Resp: 1521

Ion Ratio Lower Upper

62 100

64 28.3 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

1500

1000

500

0

Time--> 1.35

1.40

1.45

1.50

1.55

1.60

1.65

1.70

1.75

1.80

1.85

1.90

1.95

2.00

2.05

2.10

2.15

2.20

2.25

2.30

2.35

2.40

2.45

2.50

2.55

2.60

2.65

2.70

2.75

2.80

2.85

2.90

2.95

3.00

3.05

3.10

3.15

3.20

3.25

3.30

3.35

3.40

3.45

3.50

3.55

3.60

3.65

3.70

3.75

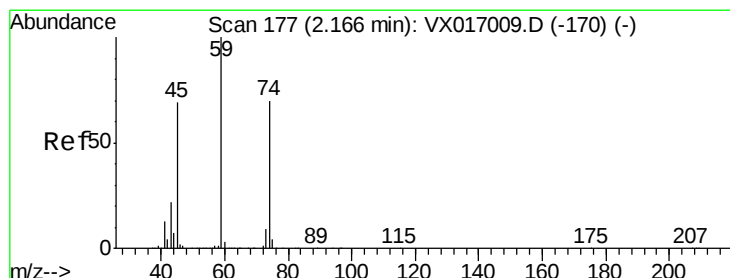
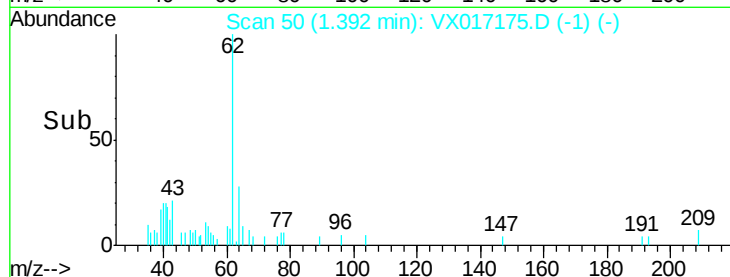
3.80

3.85

3.90

3.95

4.00



#8

Diethyl Ether

Concen: 0.469 ug/l

RT: 1.90 min Scan# 133

Delta R.T. -0.27 min

Lab File: VX017175.D

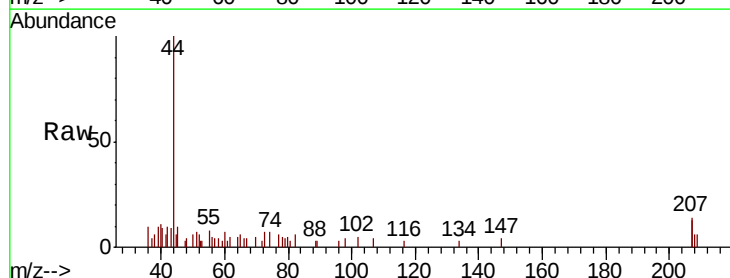
Acq: 06 Jul 2020 17:56

Tgt Ion: 74 Resp: 158

Ion Ratio Lower Upper

74 100

45 63.9 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1.90

300

200

100

0

Time--> 1.86

1.88

1.90

1.92

1.94

1.96

1.98

2.00

2.02

2.04

2.06

2.08

2.10

2.12

2.14

2.16

2.18

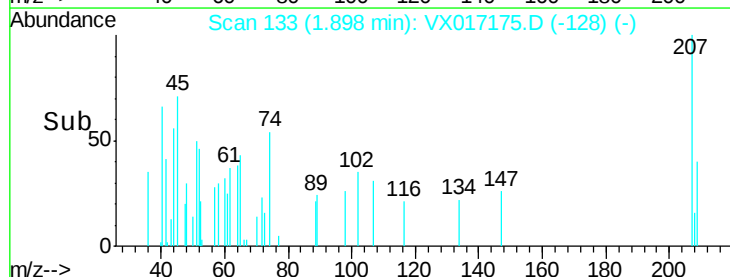
2.20

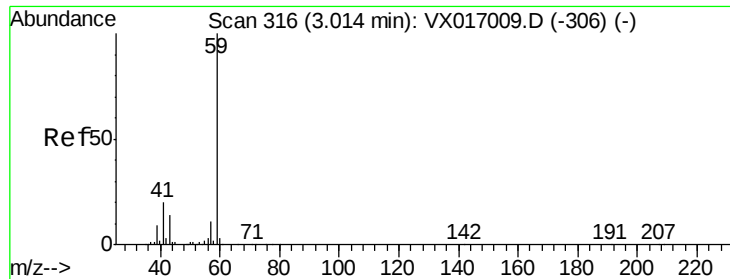
2.22

2.24

2.26

2.28

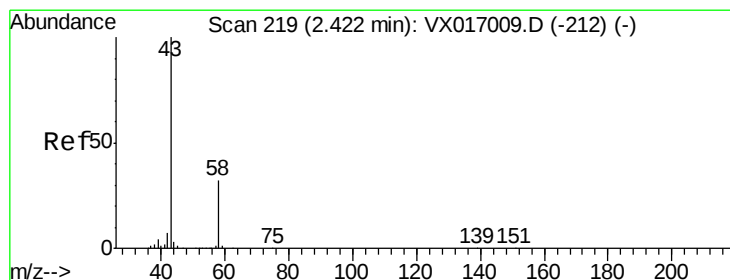
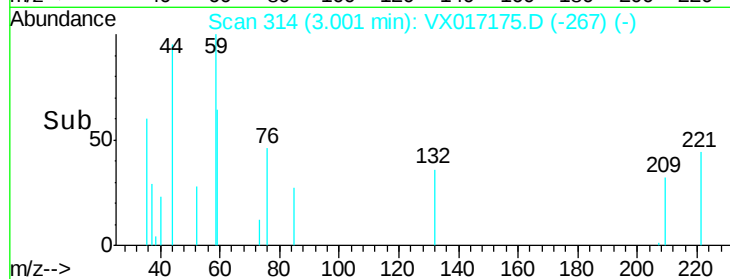
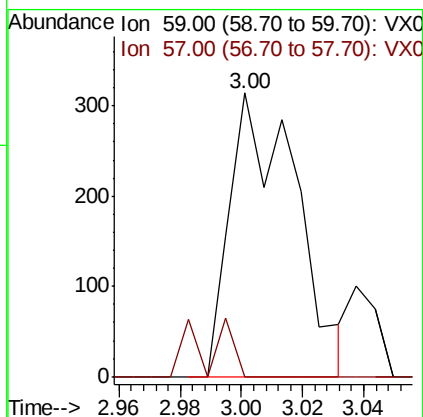
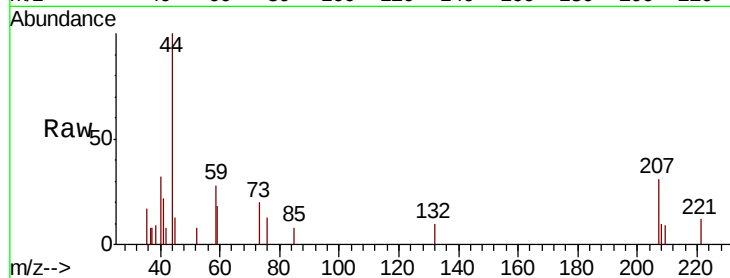




#11
Tert butyl alcohol
Concen: 0.714 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX017175.D
Acq: 06 Jul 2020 17:56

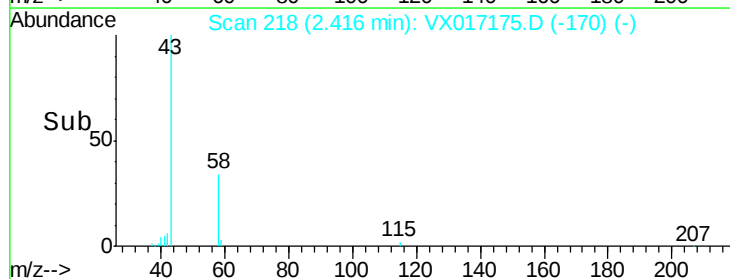
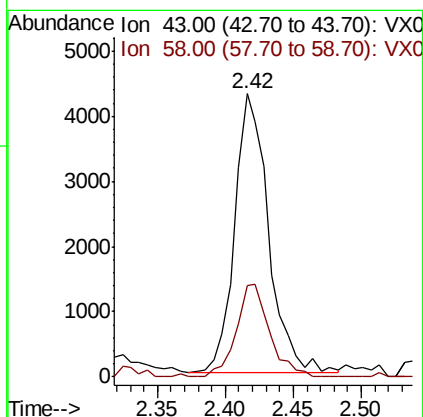
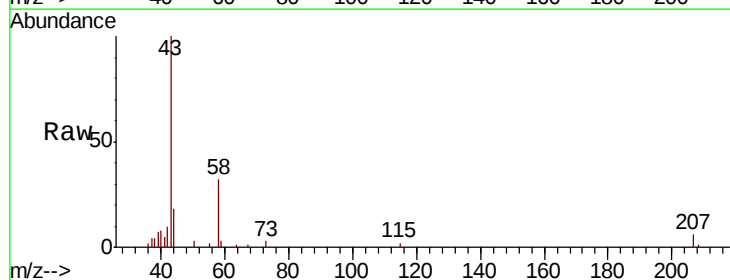
Instrument :
MSVOA_X
ClientSampleId :
54BR-20200629

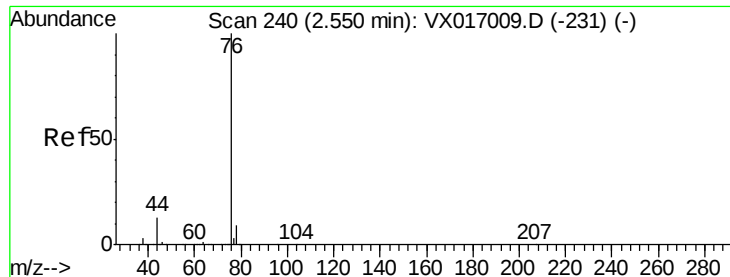
Tot Ion: 59 Resp: 469
Ion Ratio Lower Upper
59 100
57 10.0 8.2 12.2



#16
Acetone
Concen: 5.783 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017175.D
Acq: 06 Jul 2020 17:56

Tgt Ion: 43 Resp: 7446
Ion Ratio Lower Upper
43 100
58 33.0 25.7 38.5





#17

Carbon Disulfide

Concen: 0.210 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

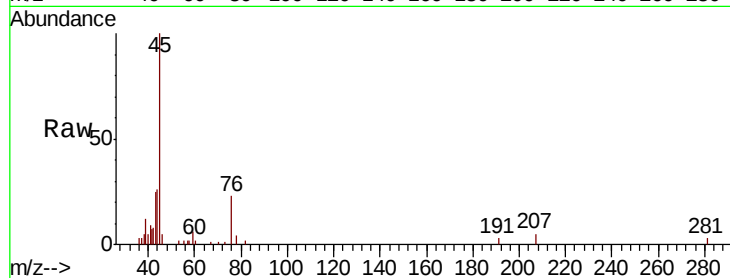
54BR-20200629

Tot Ion: 76 Resp: 1444

Ion Ratio Lower Upper

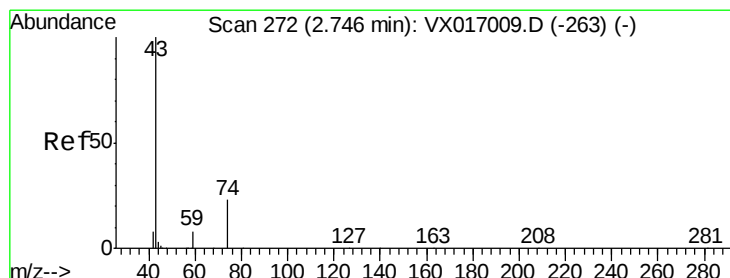
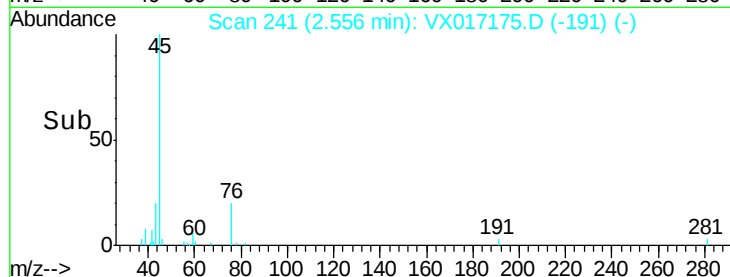
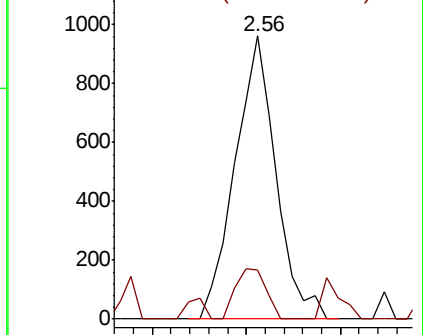
76 100

78 11.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 3.332 ug/l

RT: 2.57 min Scan# 244

Delta R.T. -0.17 min

Lab File: VX017175.D

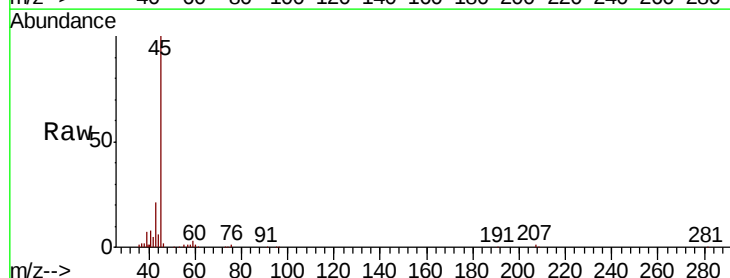
Acq: 06 Jul 2020 17:56

Tgt Ion: 43 Resp: 11200

Ion Ratio Lower Upper

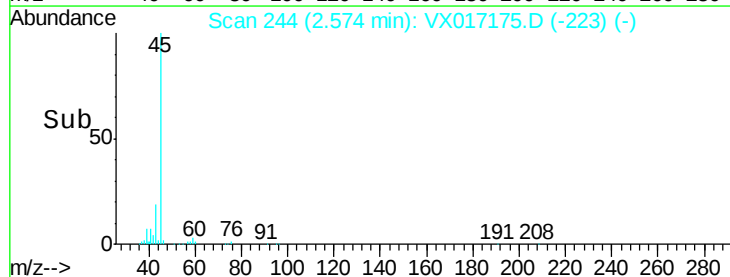
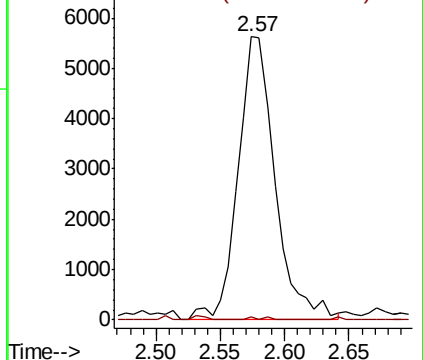
43 100

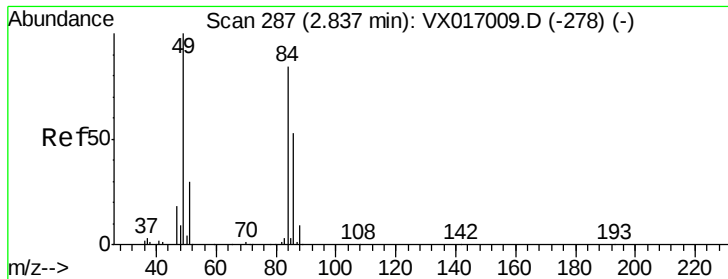
74 0.4 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



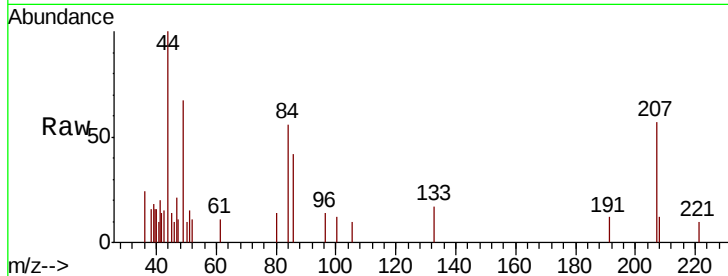


#20

Methvlene Chloride
 Concen: Below Cal
 RT: 2.84 min Scan# 287
 Delta R.T. 0.00 min
 Lab File: VX017175.D
 Acq: 06 Jul 2020 17:56

Instrument :
 MSVOA_X
 ClientSampleId :
 54BR-20200629

Tot Ion	Ratio	Lower	Upper
84	100		
49	119.9	94.7	142.1
51	27.7	28.6	42.8#
86	75.7	50.5	75.7



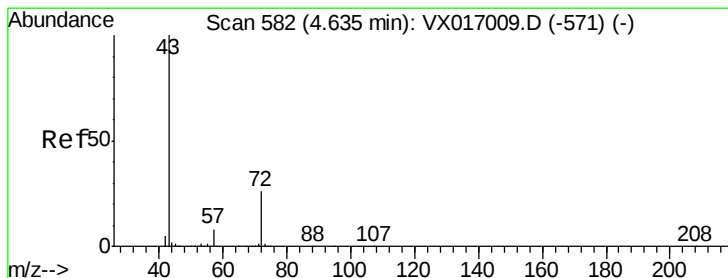
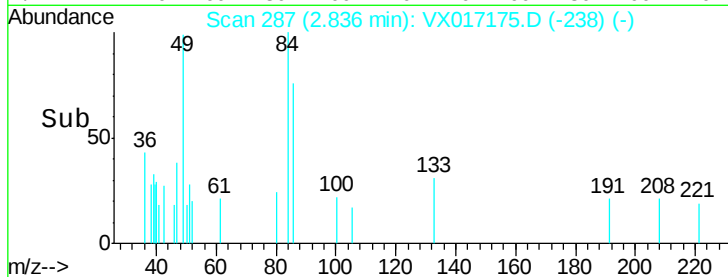
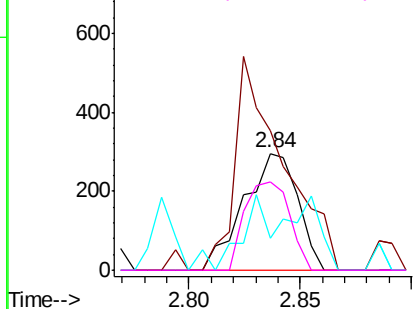
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

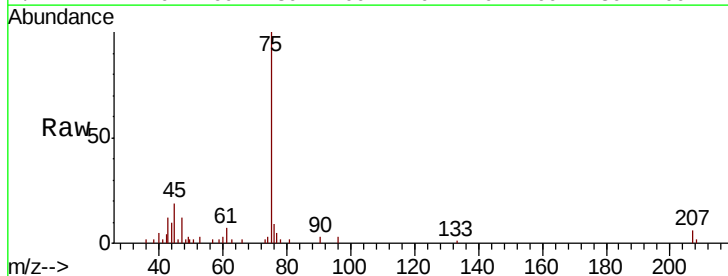
Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone
 Concen: 0.324 ug/l
 RT: 4.65 min Scan# 584
 Delta R.T. 0.01 min
 Lab File: VX017175.D
 Acq: 06 Jul 2020 17:56

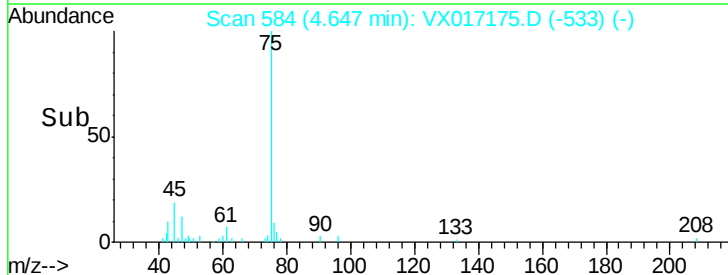
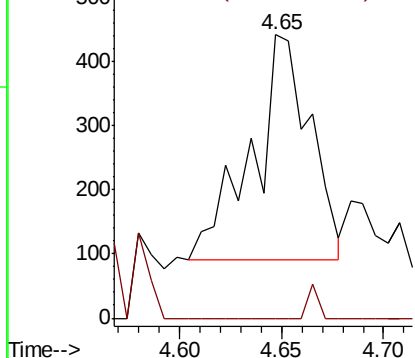
Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.8	31.2#

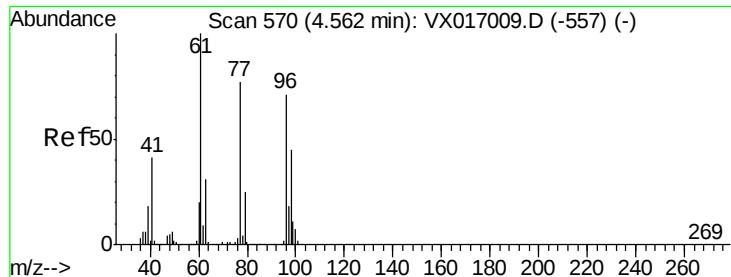


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



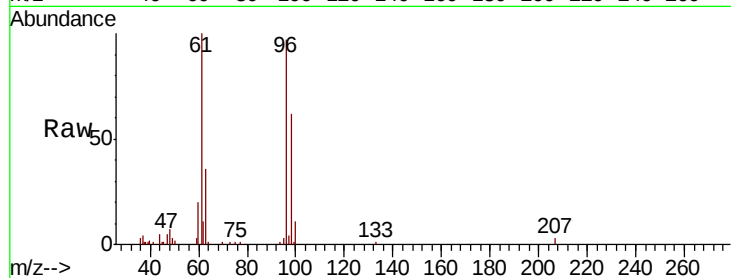


#27

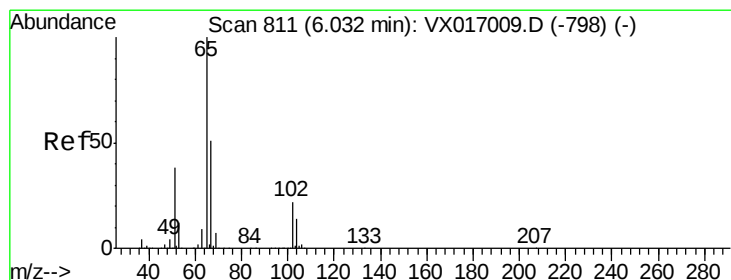
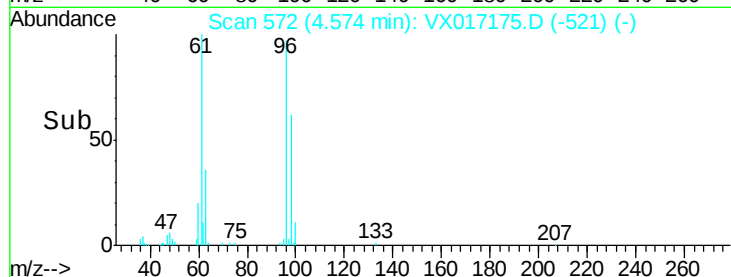
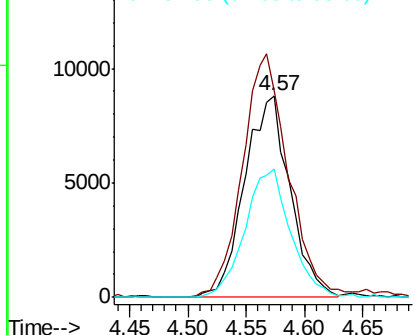
cis-1,2-Dichloroethene
Concen: 6.863 ug/l
RT: 4.57 min Scan# 572
Delta R.T. 0.01 min
Lab File: VX017175.D
Acq: 06 Jul 2020 17:56

Instrument :
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Tot Ion	96	Resp	23835
Ion	Ratio	Lower	Upper
96	100		
61	122.8	0.0	282.8
98	64.3	0.0	127.6



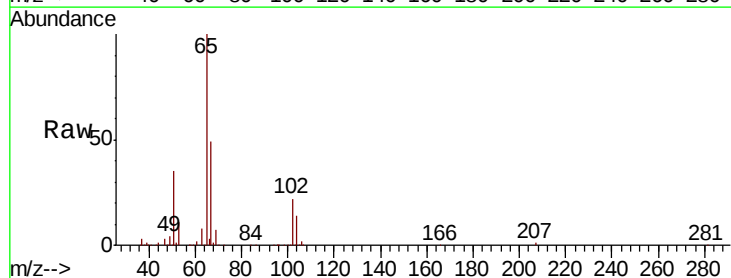
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



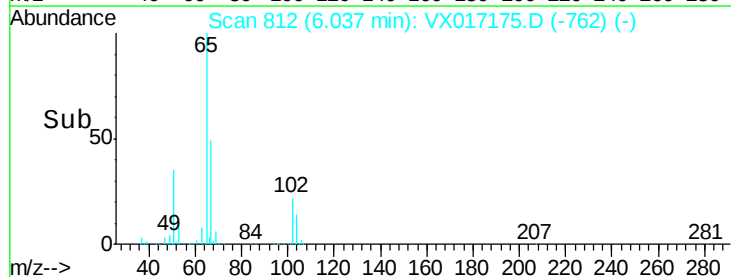
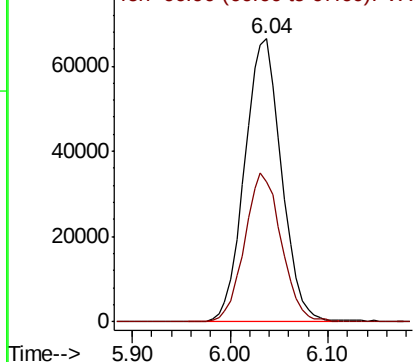
#33

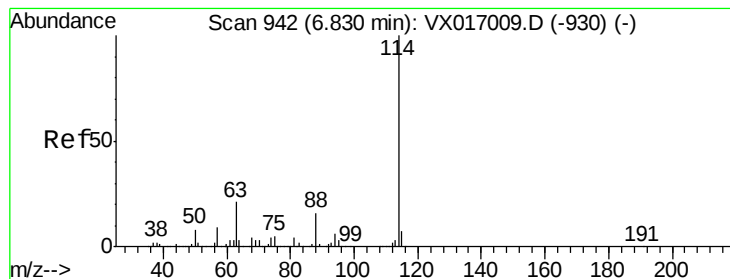
1,2-Dichloroethane-d4
Concen: 50.357 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017175.D
Acq: 06 Jul 2020 17:56

Tgt Ion	65	Resp	173320
Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.8



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: VX017175.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

54BR-20200629

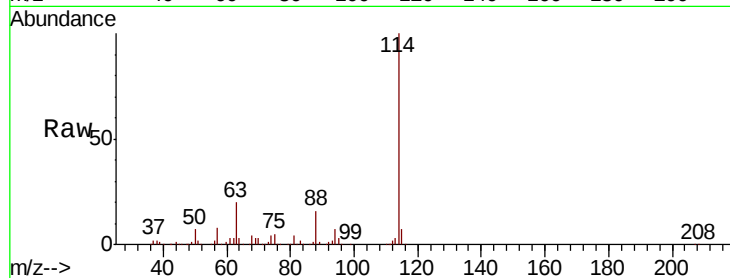
Tot Ion:114 Resp: 462133

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.4

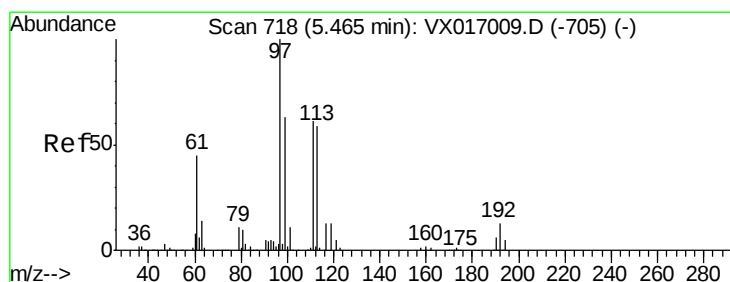
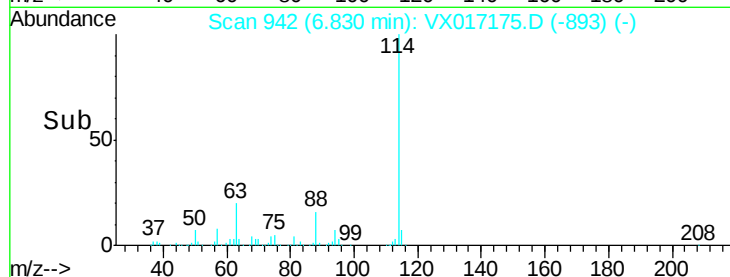
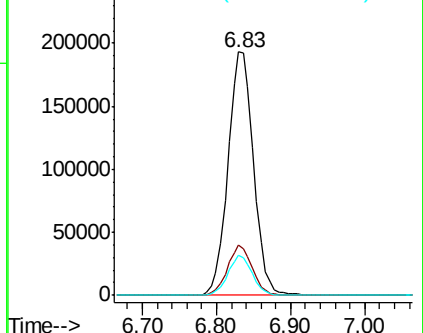
88 16.3 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 51.334 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

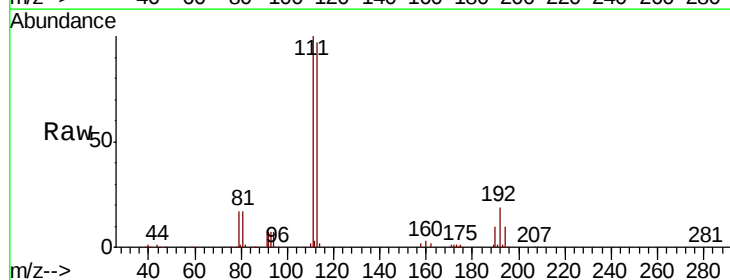
Tgt Ion:113 Resp: 150065

Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

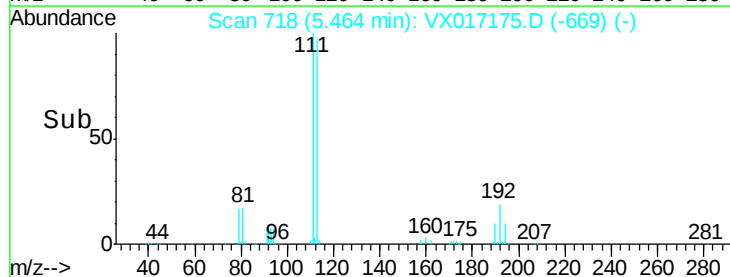
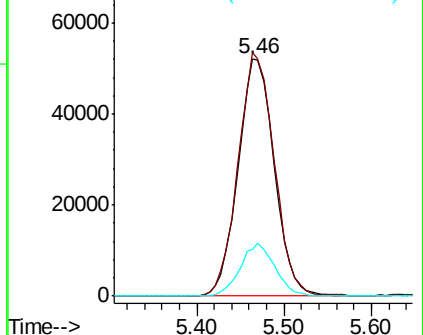
192 21.3 16.7 25.1

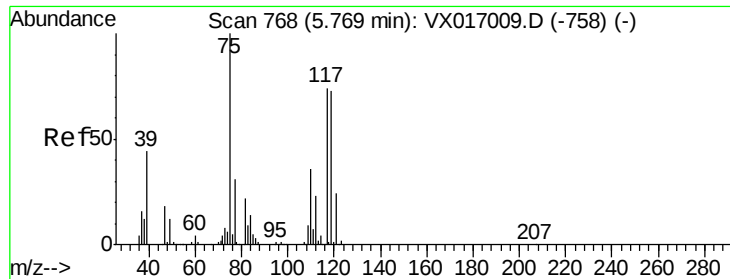


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

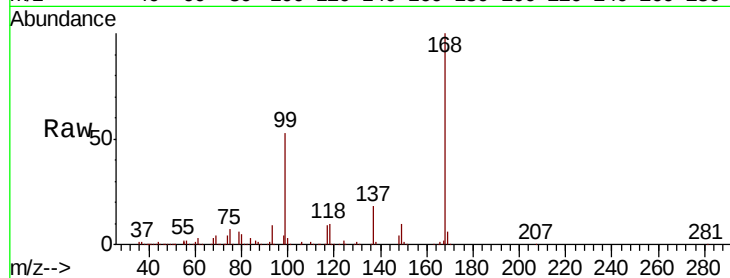




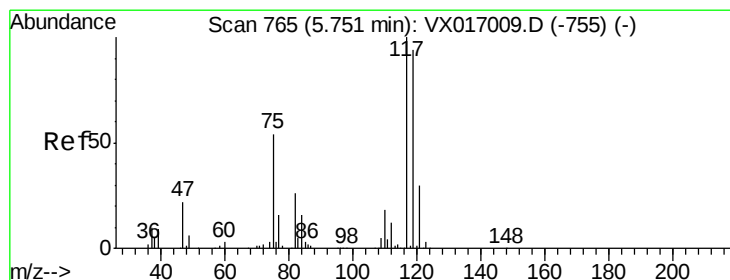
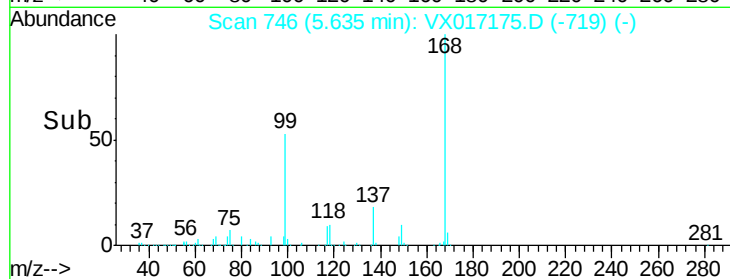
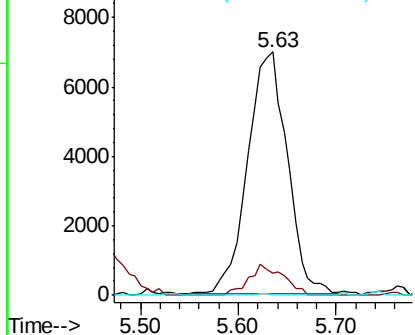
#36
 1,1-Dichloropropene
 Concen: 4.503 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017175.D
 Acq: 06 Jul 2020 17:56

Instrument :
 MSVOA_X
 ClientSampleId :
 54BR-20200629

Tot Ion	Ratio	Lower	Upper
75	100		
110	11.1	18.1	54.1#
77	0.2	24.6	37.0#

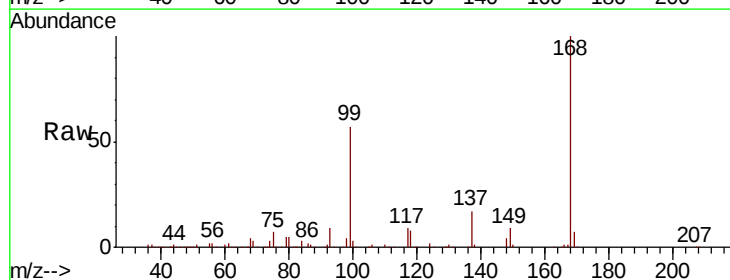


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

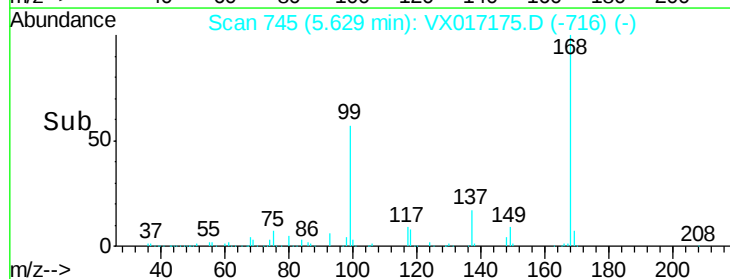
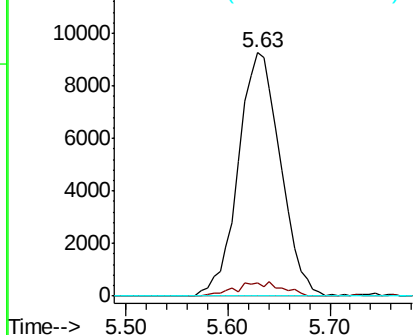


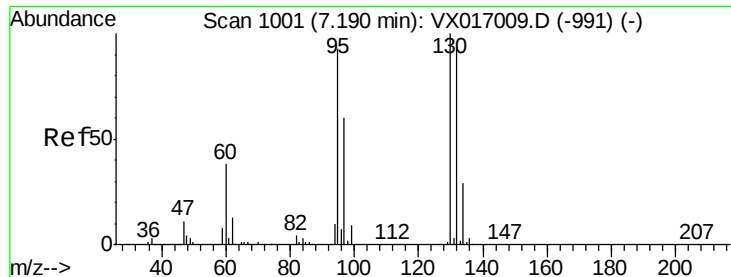
#38
 Carbon Tetrachloride
 Concen: 5.508 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017175.D
 Acq: 06 Jul 2020 17:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	75.4	113.0#
121	0.0	23.8	35.6#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 20.959 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

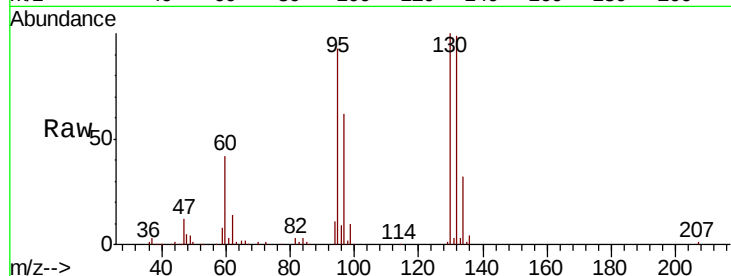
54BR-20200629

Tot Ion:130 Resp: 74857

Ion Ratio Lower Upper

130 100

95 92.7 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

40000

30000

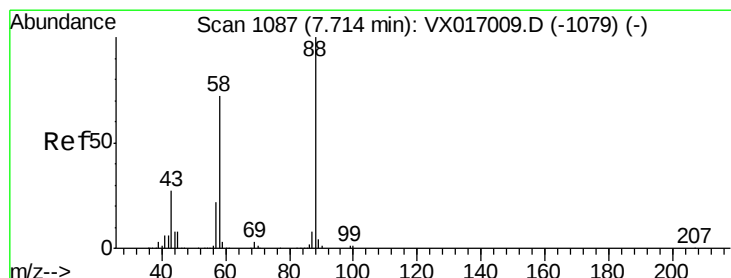
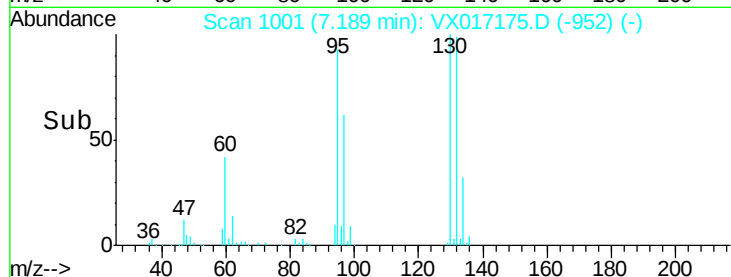
20000

10000

0

Time-->

7.10 7.20 7.30



#49

1,4-Dioxane

Concen: 0.555 ug/l

RT: 7.87 min Scan# 1112

Delta R.T. 0.15 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

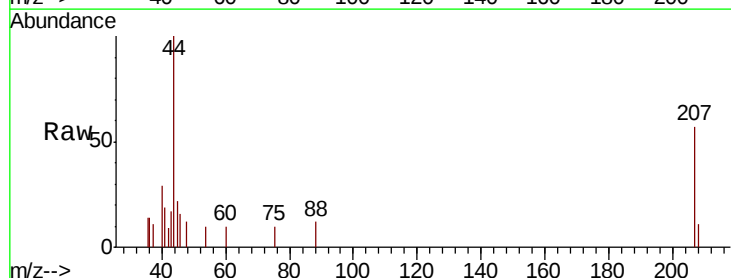
Tgt Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.8#

58 0.0 54.8 82.2#



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

250

200

150

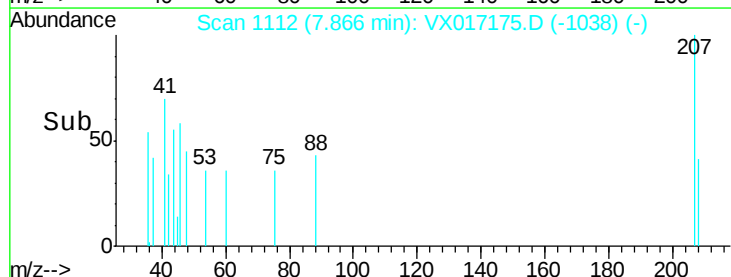
100

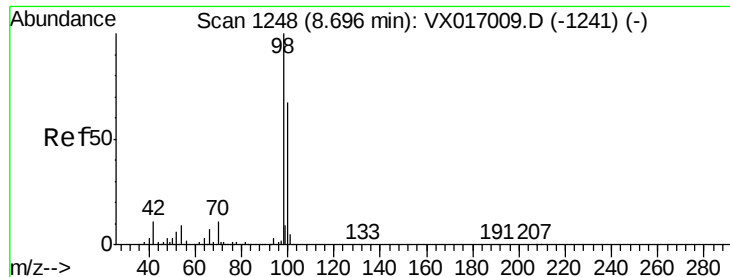
50

0

Time-->

7.84 7.86 7.88





#50

Toluene-d8

Concen: 51.849 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

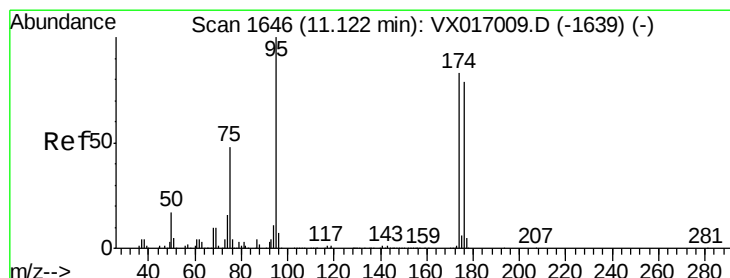
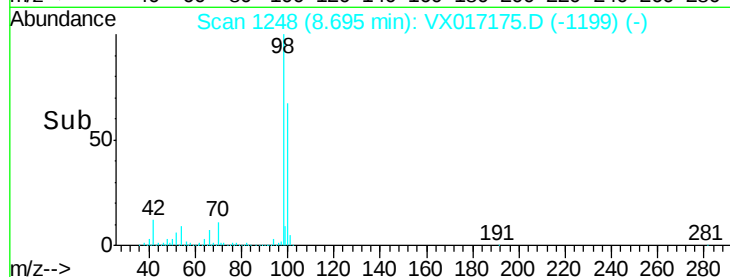
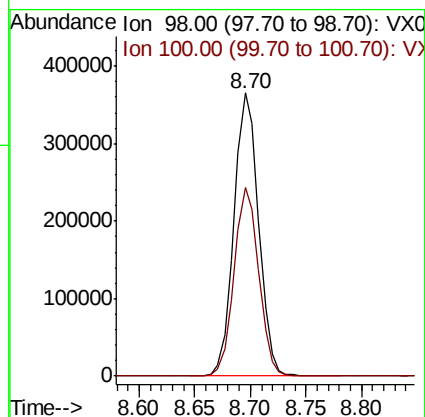
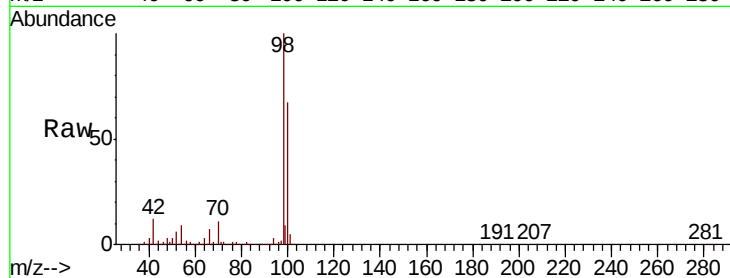
54BR-20200629

Tot Ion: 98 Resp: 560479

Ion Ratio Lower Upper

98 100

100 66.4 53.8 80.6



#62

4-Bromofluorobenzene

Concen: 56.281 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

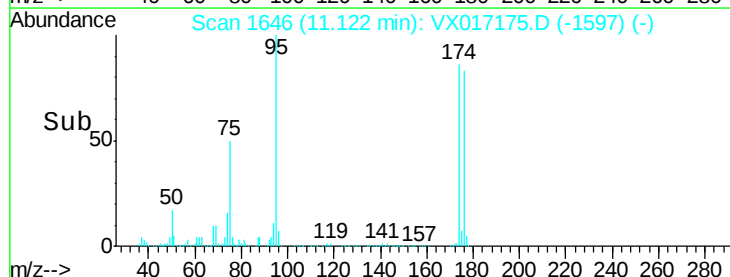
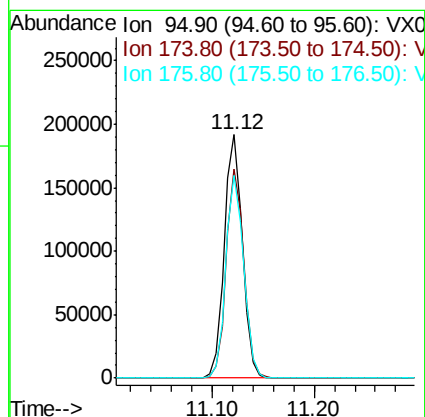
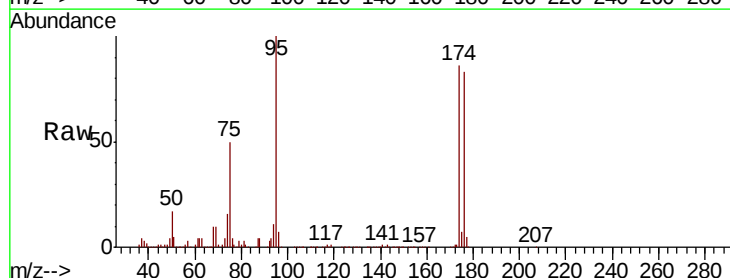
Tgt Ion: 95 Resp: 237826

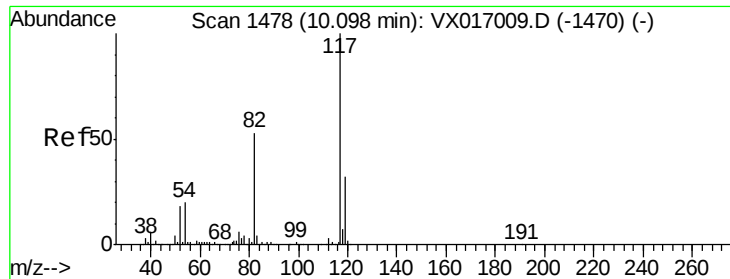
Ion Ratio Lower Upper

95 100

174 83.5 0.0 164.0

176 82.2 0.0 157.6

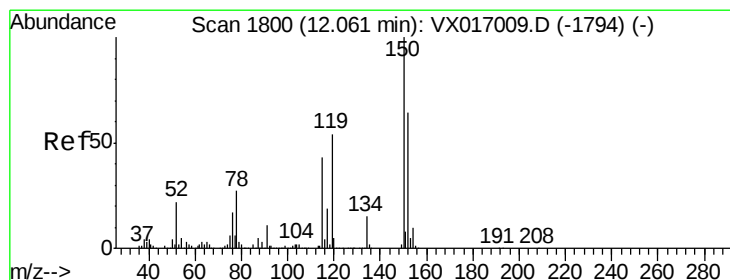
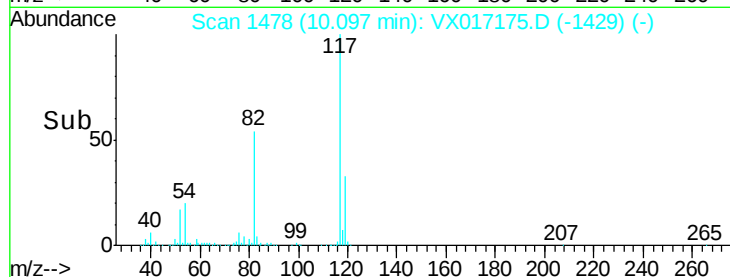
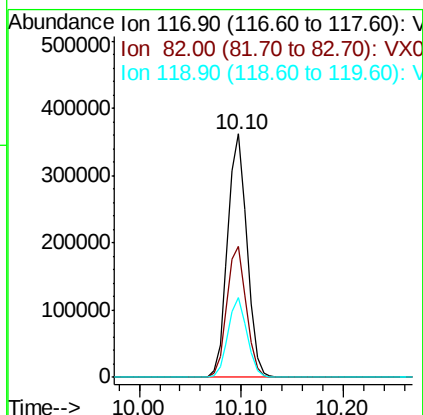
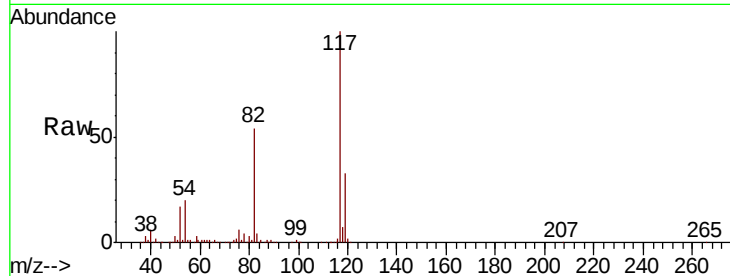




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017175.D
Acq: 06 Jul 2020 17:56

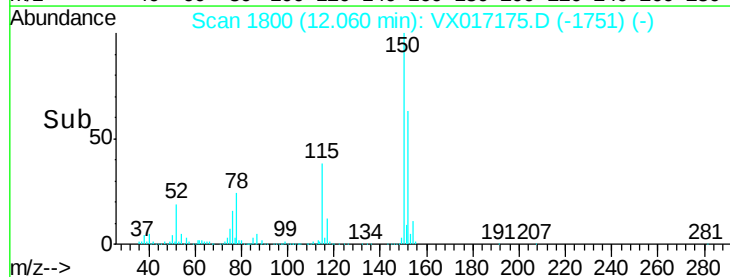
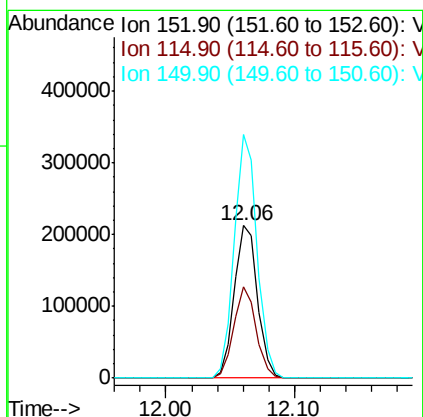
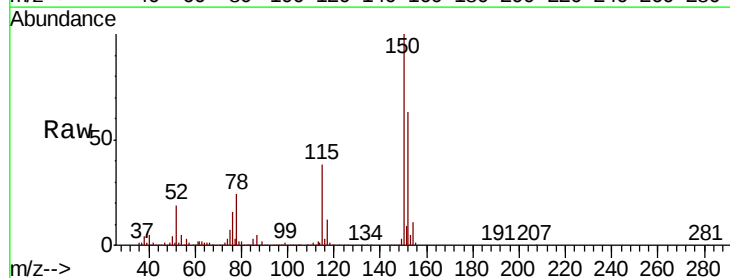
Instrument :
MSVOA_X
ClientSampleId :
54BR-20200629

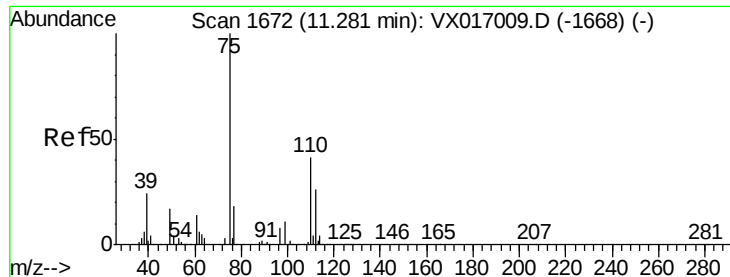
Tot Ion:117 Resp: 473801
Ion Ratio Lower Upper
117 100
82 53.6 42.6 63.8
119 32.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017175.D
Acq: 06 Jul 2020 17:56

Tgt Ion:152 Resp: 268802
Ion Ratio Lower Upper
152 100
115 57.6 40.9 122.7
150 156.2 0.0 351.6





#76

1,2,3-Trichloropropane

Concen: 22.215 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

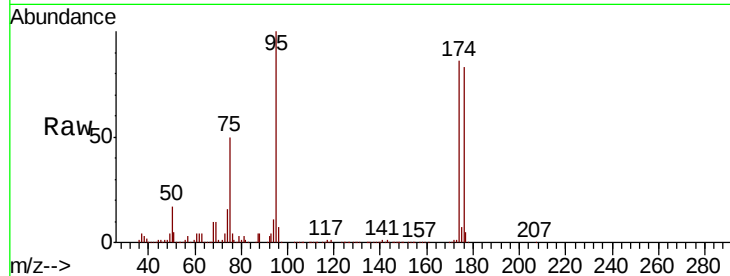
54BR-20200629

Tot Ion: 75 Resp: 117425

Ion Ratio Lower Upper

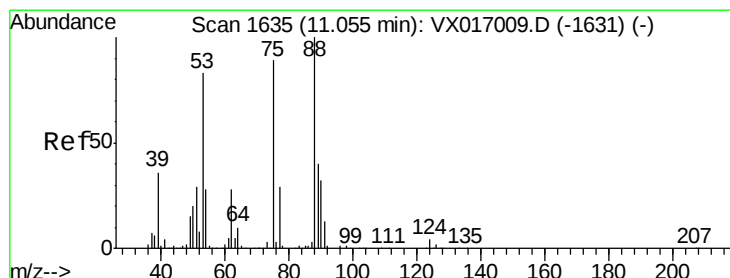
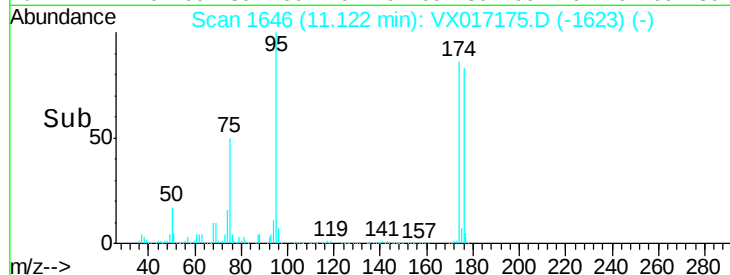
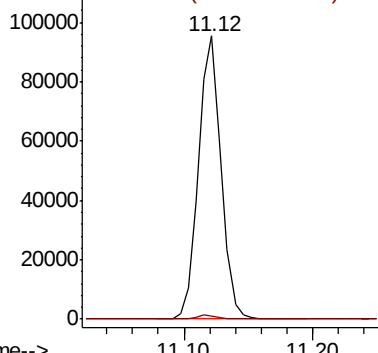
75 100

77 1.4 20.2 60.6#



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: 57.529 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

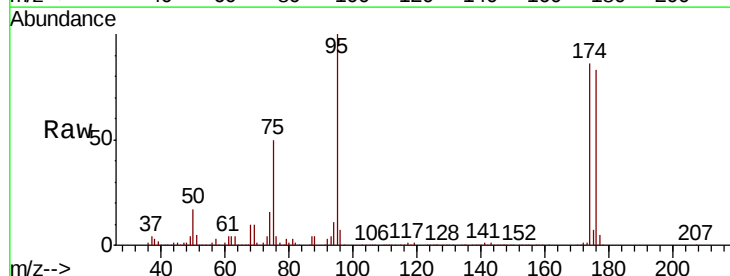
Tgt Ion: 75 Resp: 117425

Ion Ratio Lower Upper

75 100

53 0.1 72.4 108.6#

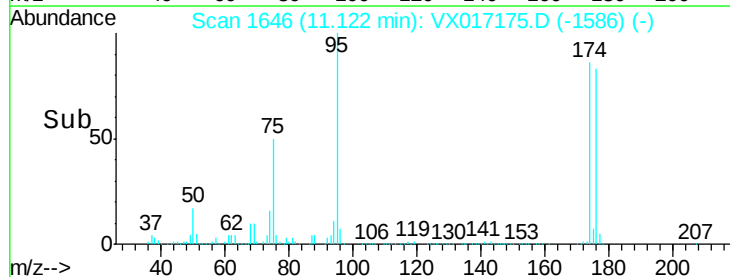
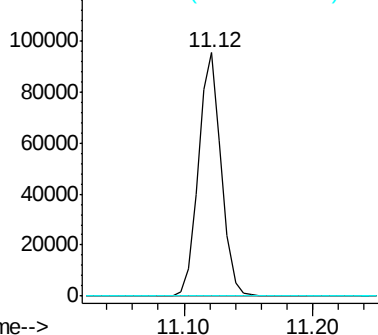
89 0.0 37.0 55.4#

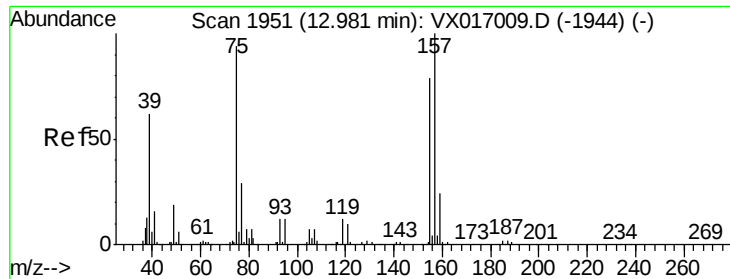


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.344 ug/l

RT: 13.09 min Scan# 1969

Delta R.T. 0.11 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

54BR-20200629

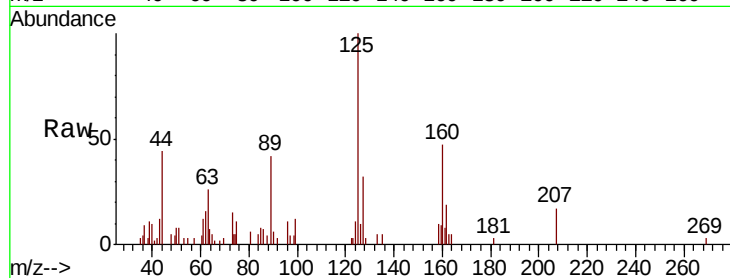
Tot Ion: 75 Resp: 454

Ion Ratio Lower Upper

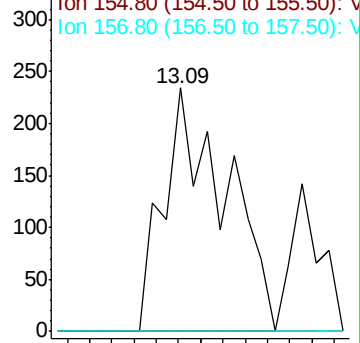
75 100

155 0.0 45.1 135.2#

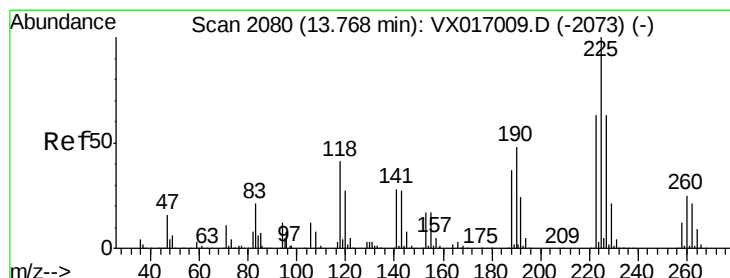
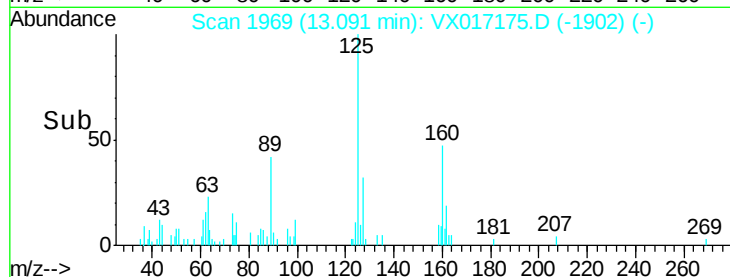
157 0.0 56.5 169.3#



Abundance Ion 74.90 (74.60 to 75.60): VX017175.D (-1902) (-)



Time-->



#94

Hexachlorobutadiene

Concen: 0.962 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017175.D

Acq: 06 Jul 2020 17:56

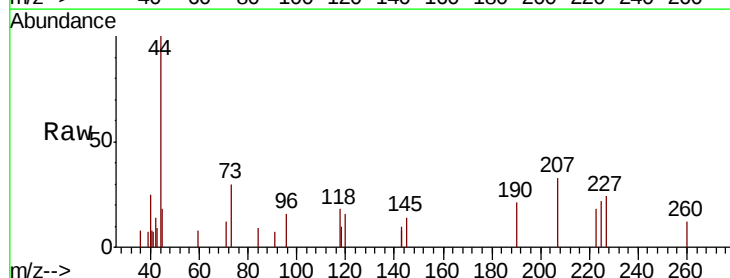
Tgt Ion: 225 Resp: 254

Ion Ratio Lower Upper

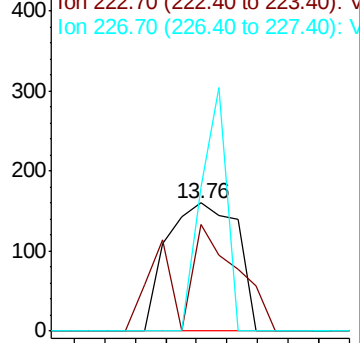
225 100

223 52.4 32.5 97.5

227 69.7 33.1 99.2



Abundance Ion 224.70 (224.40 to 225.40): VX017175.D (-2031) (-)



Time-->

