

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070620\
 Data File : VX017171.D
 Acq On : 06 Jul 2020 16:26
 Operator : JC/SP
 Sample : L3159-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 63BR-20200629

Quant Time: Jul 07 06:51:01 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	277715	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	460479	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	477950	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	266365	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	170092	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
35) Dibromofluoromethane	5.47	113	149656	51.38	ug/l	0.00
Spiked Amount			Recovery	=	102.76%	
50) Toluene-d8	8.70	98	557081	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
62) 4-Bromofluorobenzene	11.12	95	243924	57.93	ug/l	0.00
Spiked Amount			Recovery	=	115.86%	

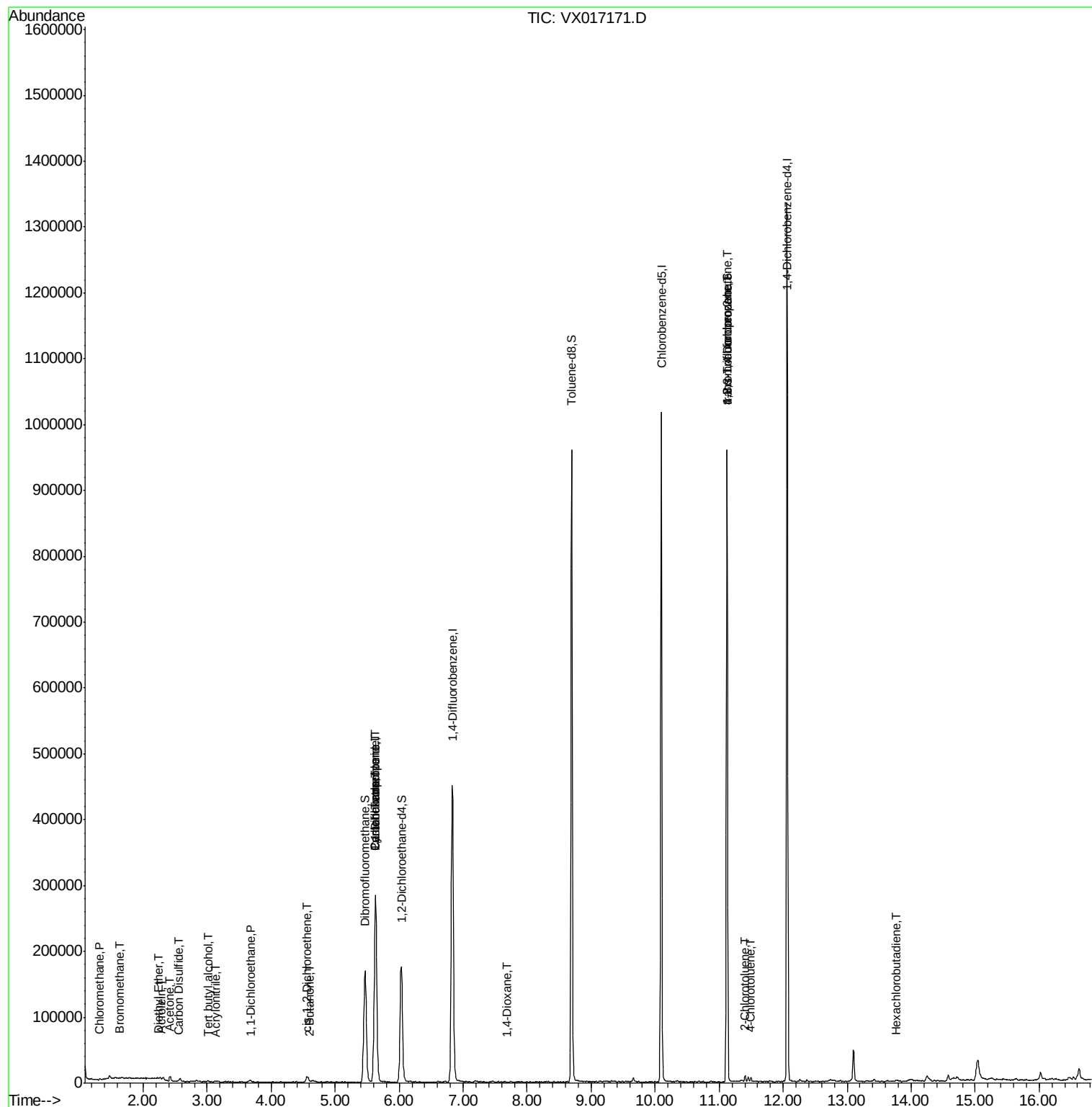
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	960	0.295	ug/l	99
5) Bromomethane	1.64	94	389	0.244	ug/l #	52
8) Diethyl Ether	2.24	74	150	0.465	ug/l	55
11) Tert butyl alcohol	3.01	59	1558	2.385	ug/l #	83
13) Acrolein	2.29	56	256	0.656	ug/l #	1
15) Acrylonitrile	3.12	53	321	0.204	ug/l #	75
16) Acetone	2.42	43	8232	6.427	ug/l	95
17) Carbon Disulfide	2.55	76	1533	0.223	ug/l #	13
20) Methylene Chloride	2.83	84	647	Below Cal	#	73
24) 1,1-Dichloroethane	3.67	63	2421	0.453	ug/l #	82
25) 2-Butanone	4.61	43	508	0.238	ug/l #	49
27) cis-1,2-Dichloroethene	4.57	96	4987	1.443	ug/l	88
31) Cyclohexane	5.62	56	5660	1.225	ug/l #	19
36) 1,1-Dichloropropene	5.63	75	19670	4.520	ug/l #	48
38) Carbon Tetrachloride	5.63	117	26440	5.516	ug/l #	19
44) Trichloroethene	7.19	130	707	Below Cal		85
49) 1,4-Dioxane	7.67	88	38	0.481	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	119818	22.875	ug/l #	37
79) 2-Chlorotoluene	11.40	91	4218	0.353	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.12	75	119818	59.238	ug/l #	13
82) 4-Chlorotoluene	11.50	91	3081	0.216	ug/l	86
88) 1,4-Dichlorobenzene	12.01	146	632	Below Cal		96
94) Hexachlorobutadiene	13.76	225	211	0.943	ug/l #	59

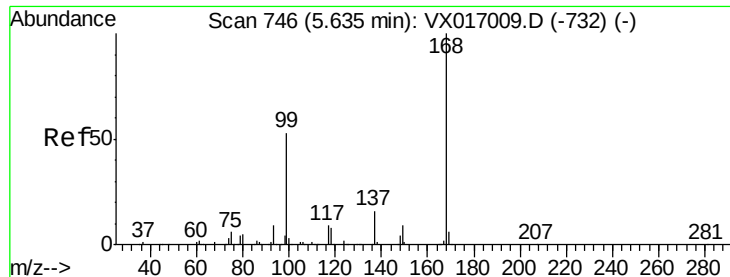
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Time: Jul 07 06:51:01 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

Instrument :

MSVOA_X

ClientSampleId :

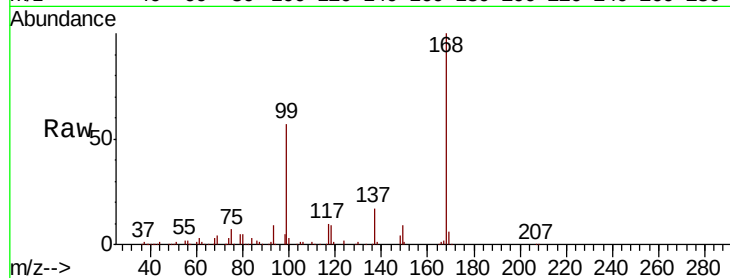
63BR-20200629

Tot Ion:168 Resp: 277715

Ion Ratio Lower Upper

168 100

99 57.3 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

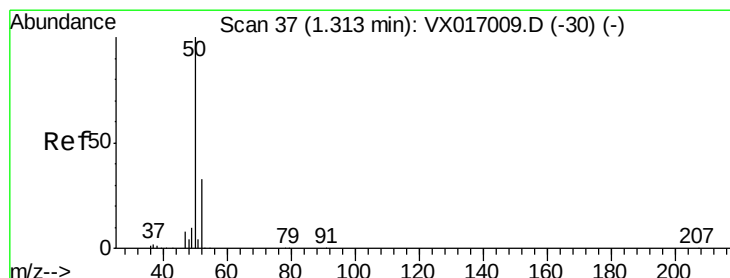
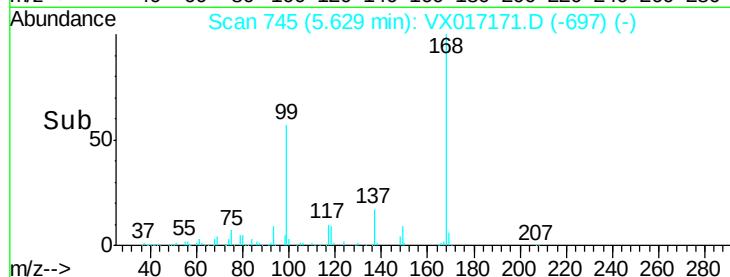
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.295 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017171.D

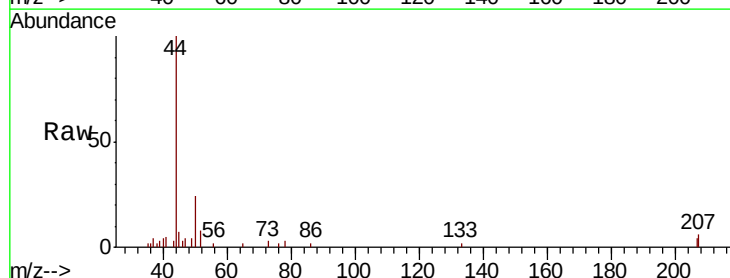
Acq: 06 Jul 2020 16:26

Tgt Ion: 50 Resp: 960

Ion Ratio Lower Upper

50 100

52 32.1 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

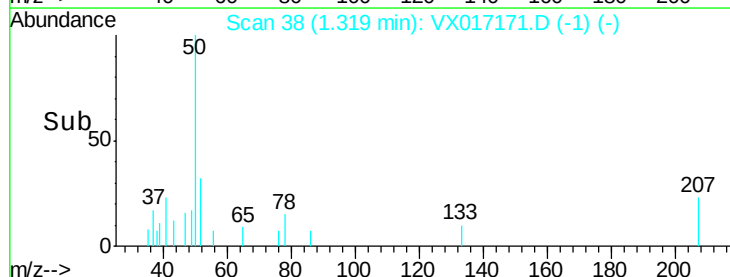
600

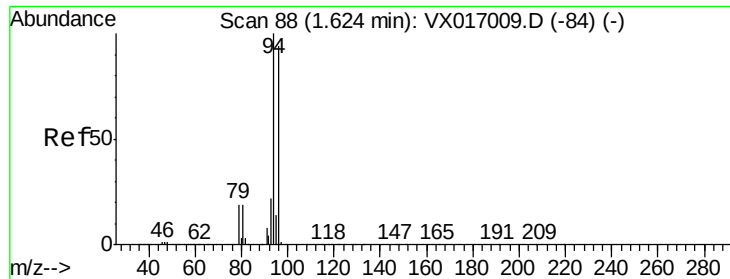
400

200

0

Time-->





#5

Bromomethane

Concen: 0.244 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

Instrument :

MSVOA_X

ClientSampleId :

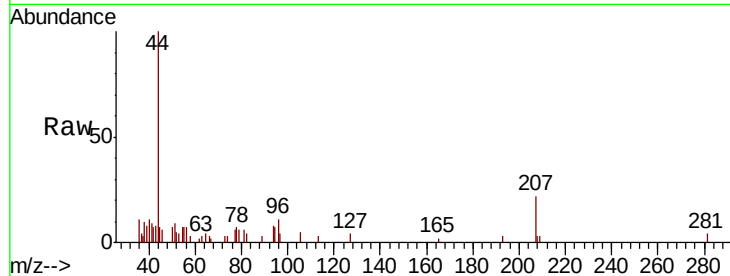
63BR-20200629

Tot Ion: 94 Resp: 389

Ion Ratio Lower Upper

94 100

96 47.4 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

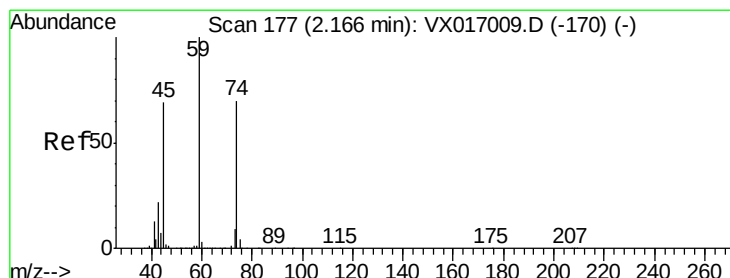
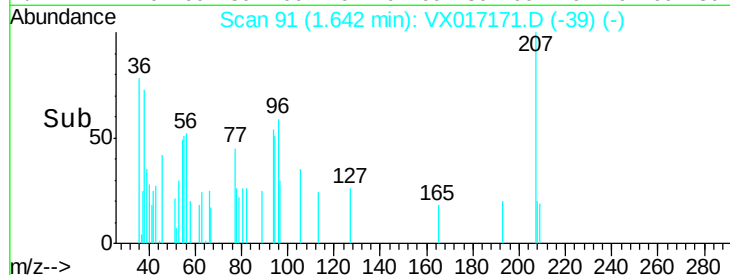
300

200

100

0

Time-->



#8

Diethyl Ether

Concen: 0.465 ug/l

RT: 2.24 min Scan# 189

Delta R.T. 0.07 min

Lab File: VX017171.D

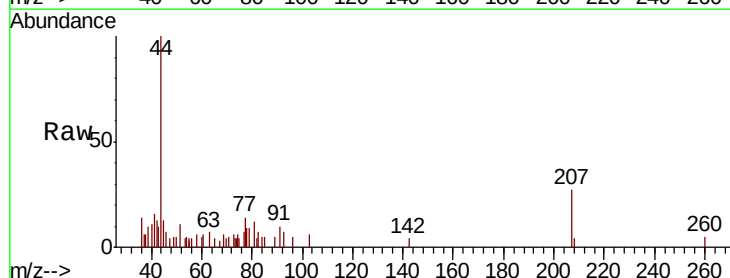
Acq: 06 Jul 2020 16:26

Tgt Ion: 74 Resp: 150

Ion Ratio Lower Upper

74 100

45 144.7 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.24

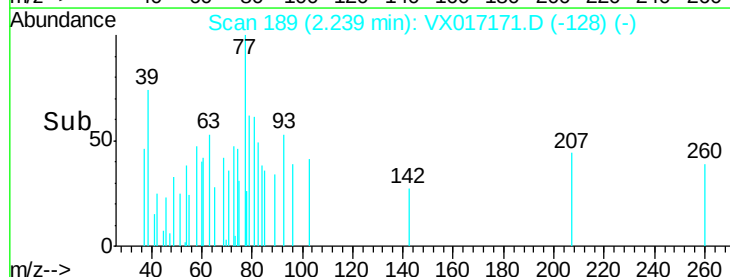
300

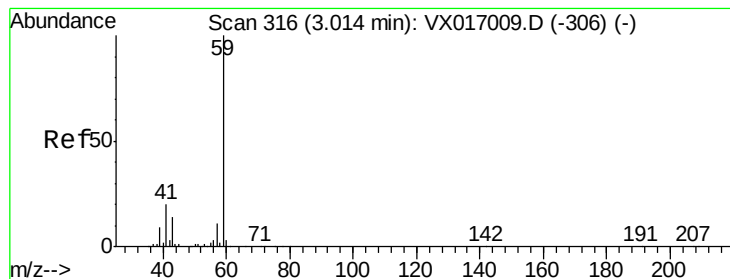
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 2.385 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

Instrument :

MSVOA_X

ClientSampleId :

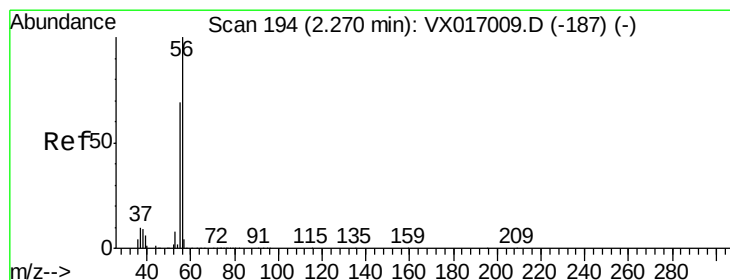
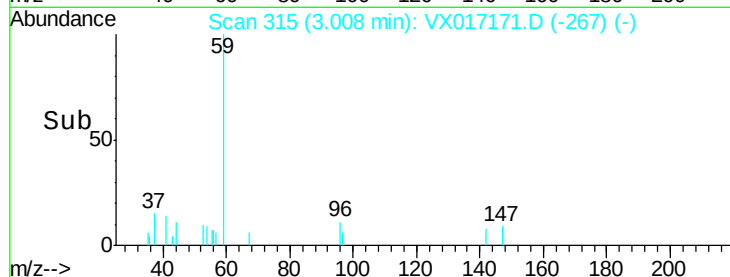
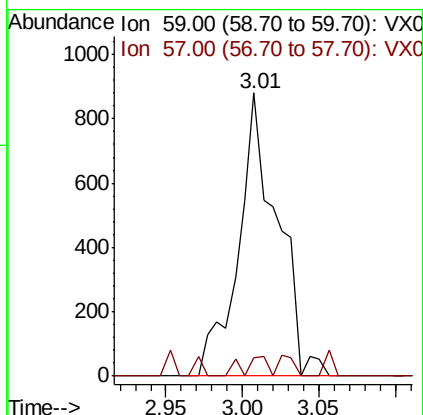
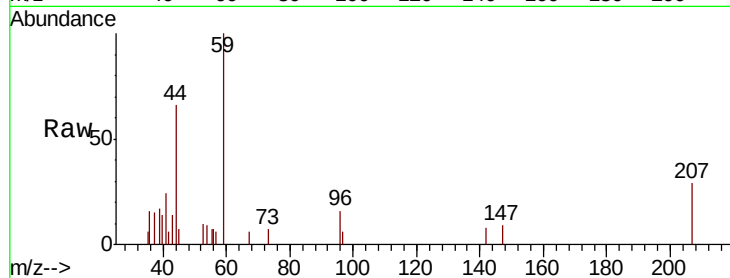
63BR-20200629

Tot Ion: 59 Resp: 1558

Ion Ratio Lower Upper

59 100

57 4.0 8.2 12.2#



#13

Acrolein

Concen: 0.656 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.02 min

Lab File: VX017171.D

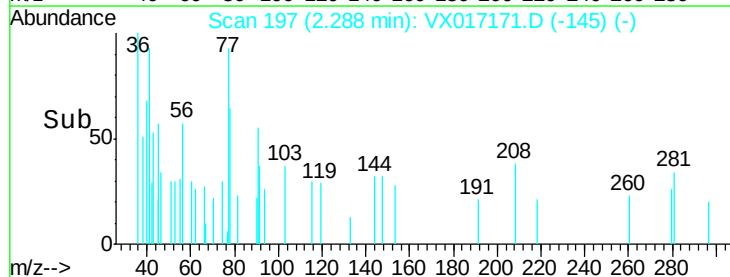
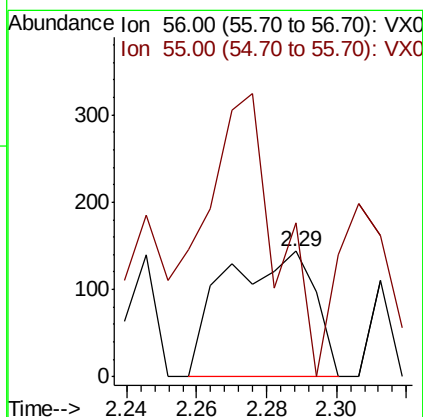
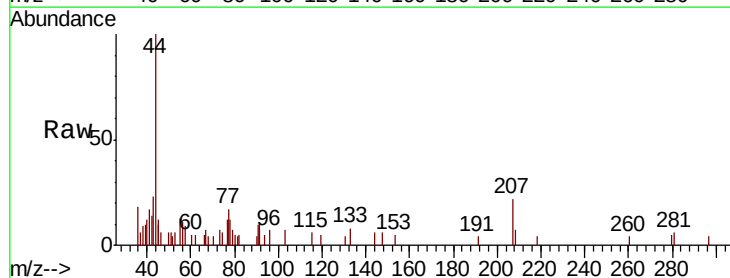
Acq: 06 Jul 2020 16:26

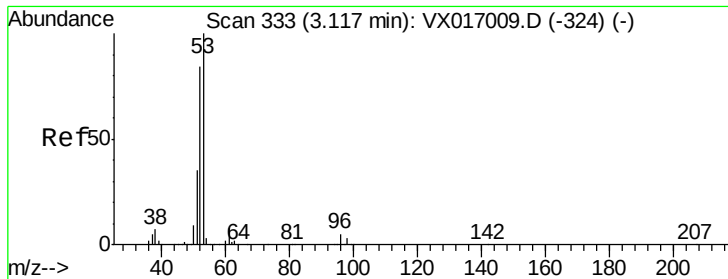
Tgt Ion: 56 Resp: 256

Ion Ratio Lower Upper

56 100

55 177.7 55.7 83.5#





#15

Acrylonitrile

Concen: 0.204 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

Instrument :

MSVOA_X

ClientSampleId :

63BR-20200629

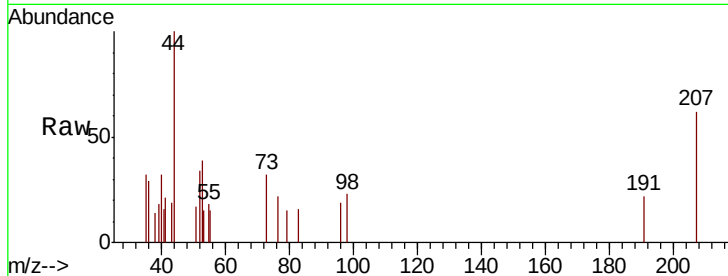
Tot Ion: 53 Resp: 321

Ion Ratio Lower Upper

53 100

52 58.3 65.6 98.4#

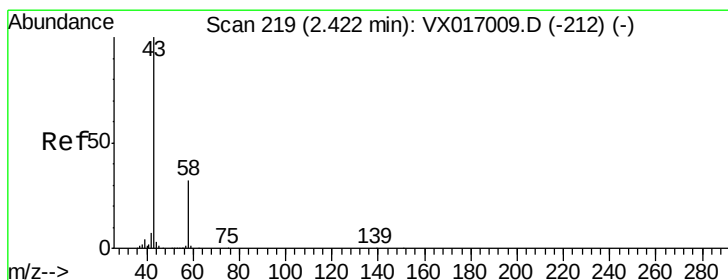
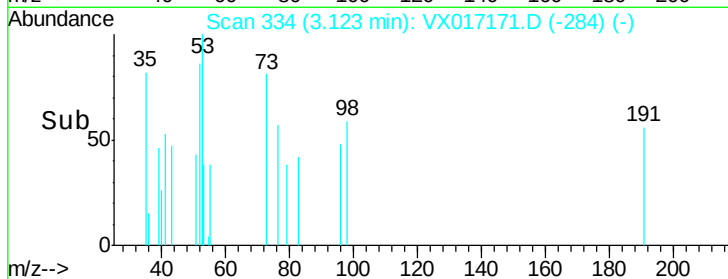
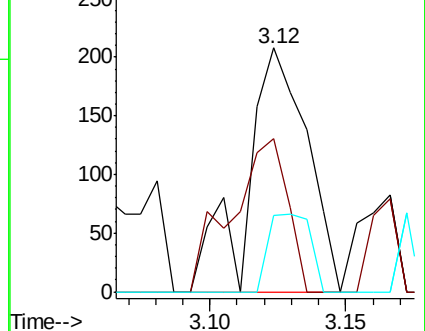
51 22.1 28.3 42.5#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 6.427 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017171.D

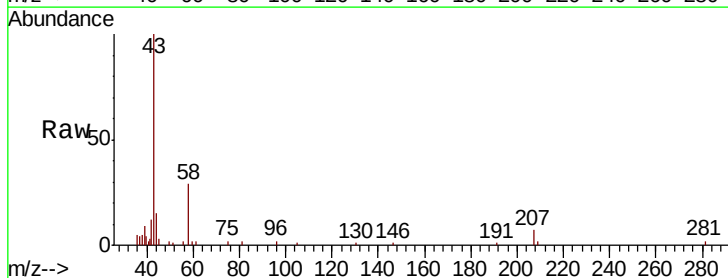
Acq: 06 Jul 2020 16:26

Tgt Ion: 43 Resp: 8232

Ion Ratio Lower Upper

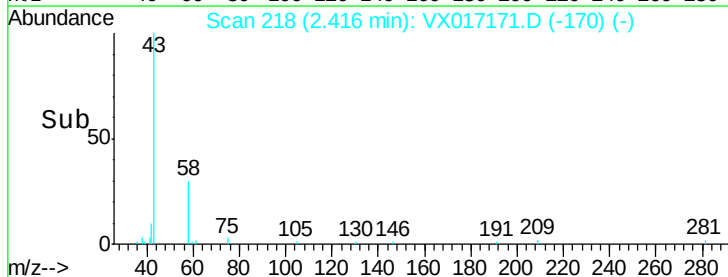
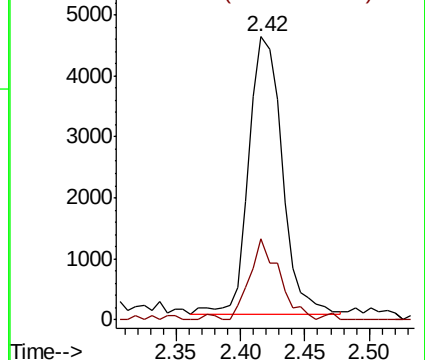
43 100

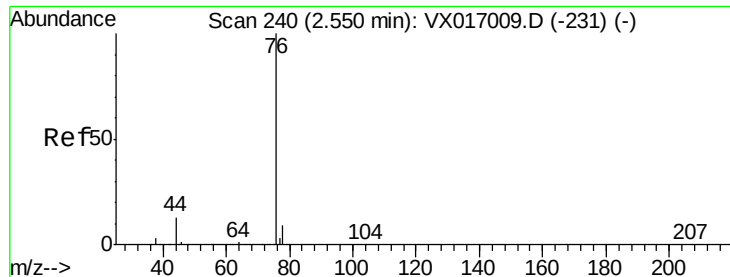
58 29.4 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.223 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

Instrument :

MSVOA_X

ClientSampleId :

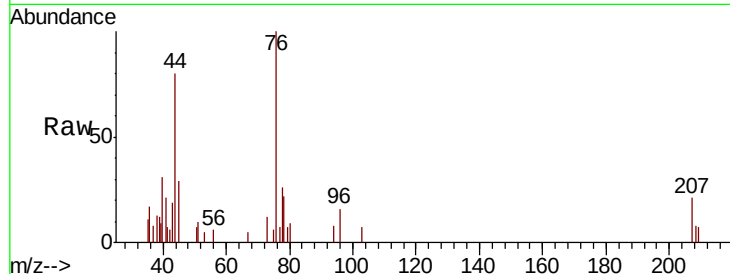
63BR-20200629

Tot Ion: 76 Resp: 1533

Ion Ratio Lower Upper

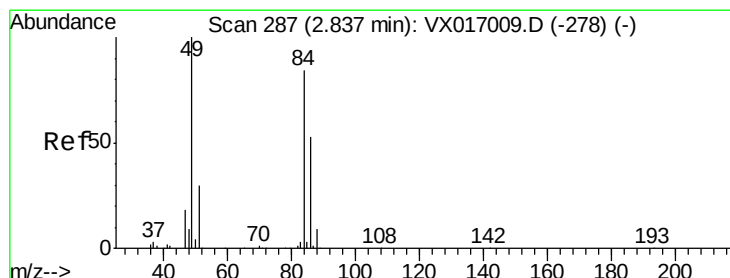
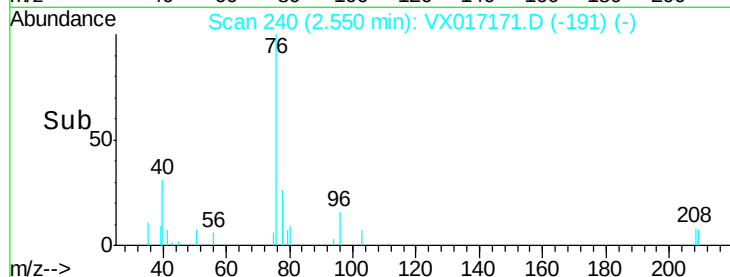
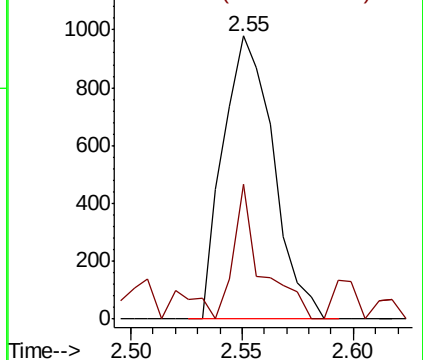
76 100

78 40.6 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

Tgt Ion: 84 Resp: 647

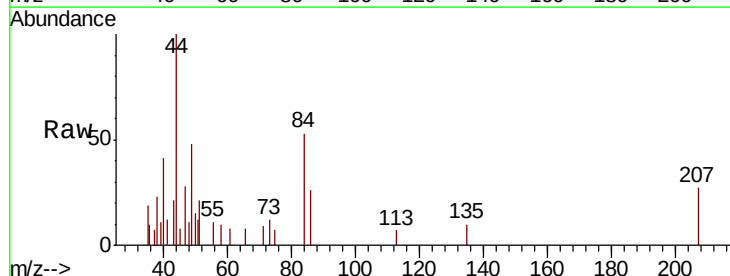
Ion Ratio Lower Upper

84 100

49 90.1 94.7 142.1#

51 63.1 28.6 42.8#

86 49.7 50.5 75.7#

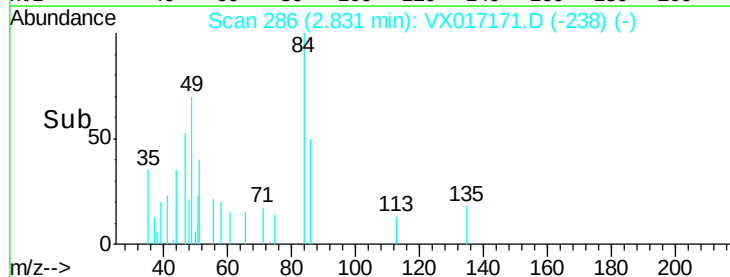
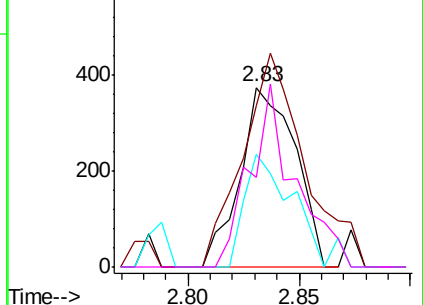


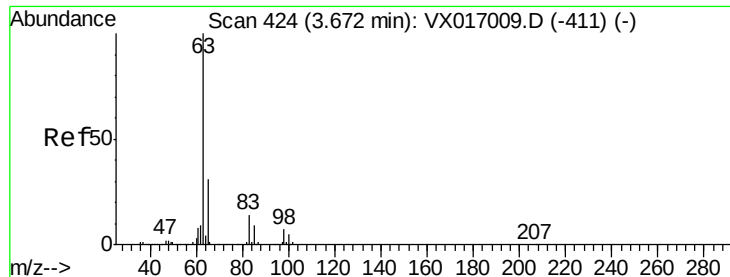
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#24

1,1-Dichloroethane

Concen: 0.453 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

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ClientSampleId :

63BR-20200629

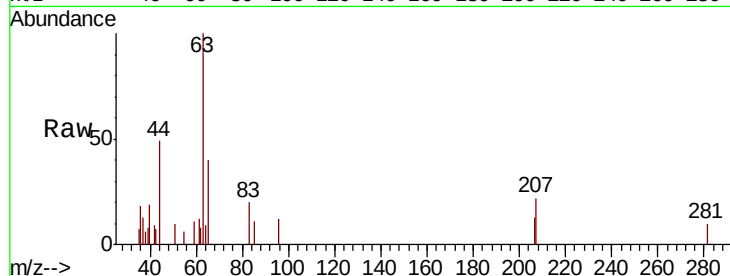
Tot Ion: 63 Resp: 2421

Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.8#

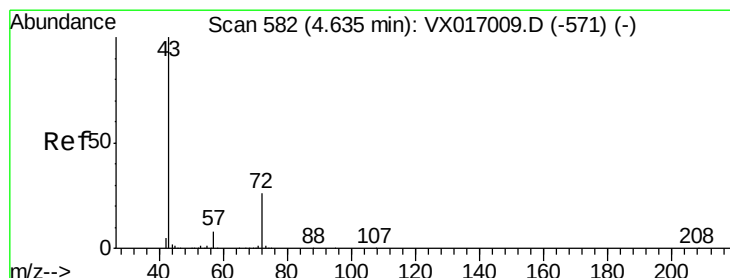
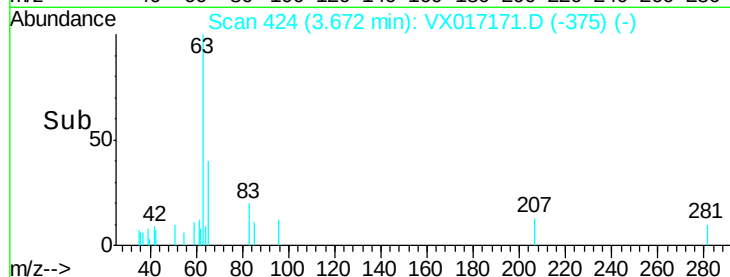
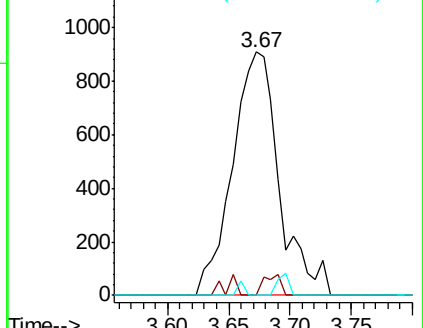
100 0.0 2.4 7.1#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.238 ug/l

RT: 4.61 min Scan# 578

Delta R.T. -0.02 min

Lab File: VX017171.D

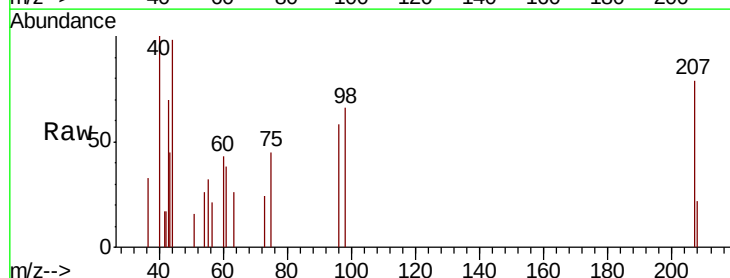
Acq: 06 Jul 2020 16:26

Tgt Ion: 43 Resp: 508

Ion Ratio Lower Upper

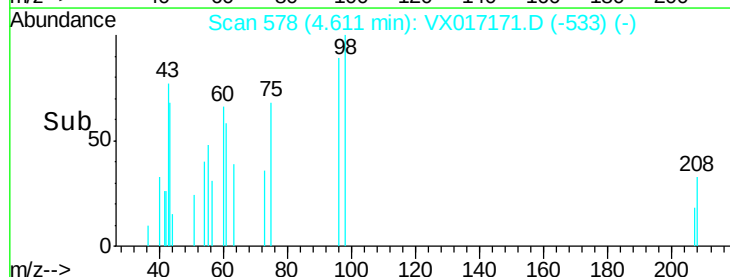
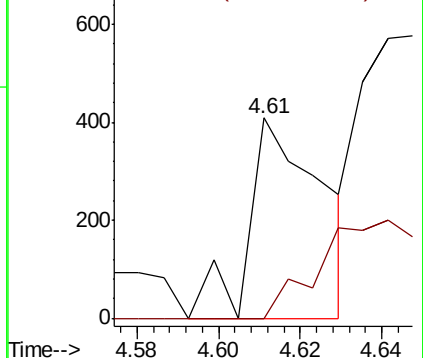
43 100

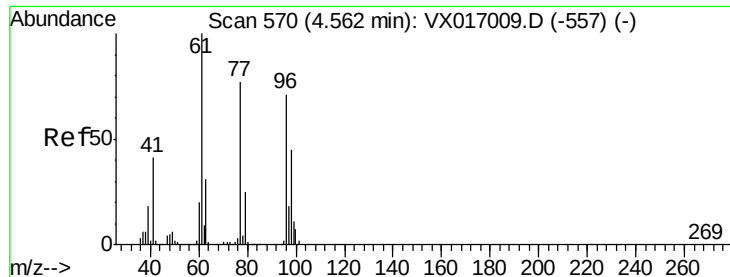
72 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



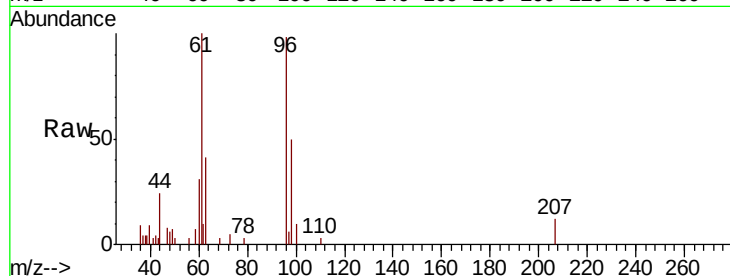


#27

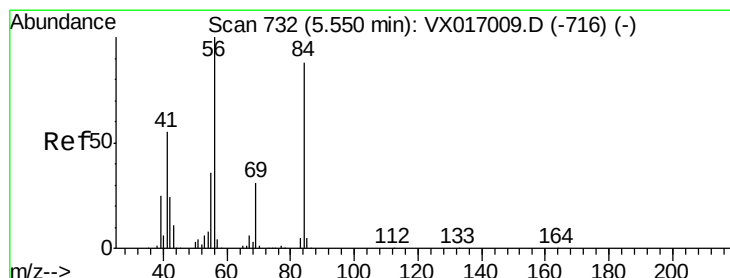
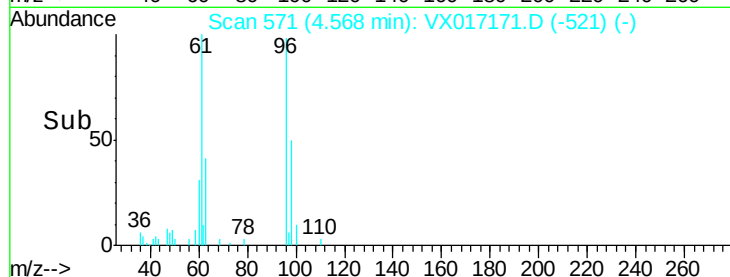
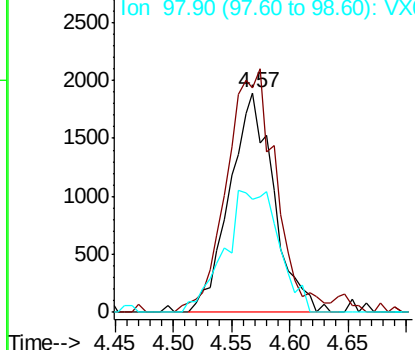
cis-1,2-Dichloroethene
Concen: 1.443 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX017171.D
Acq: 06 Jul 2020 16:26

Instrument :
MSVOA_X
ClientSampleId :
63BR-20200629

Tot Ion	96	Resp	4987
Ion	Ratio	Lower	Upper
96	100		
61	123.6	0.0	282.8
98	68.2	0.0	127.6



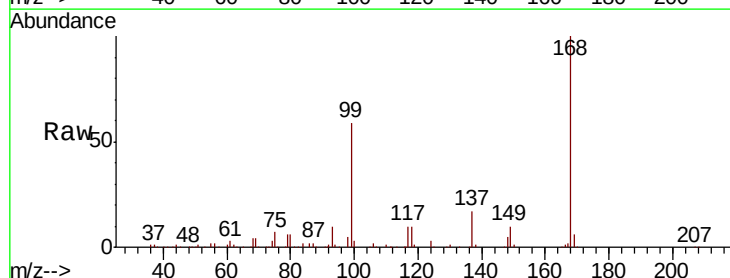
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



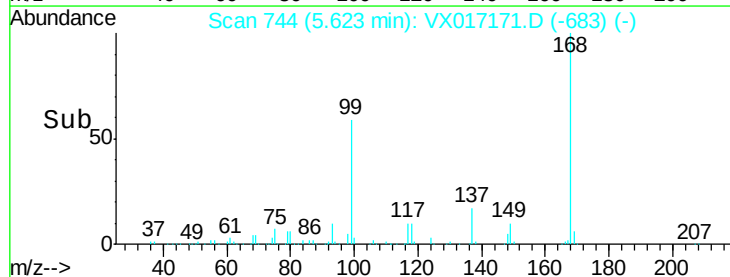
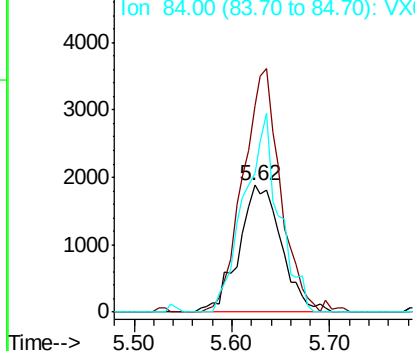
#31

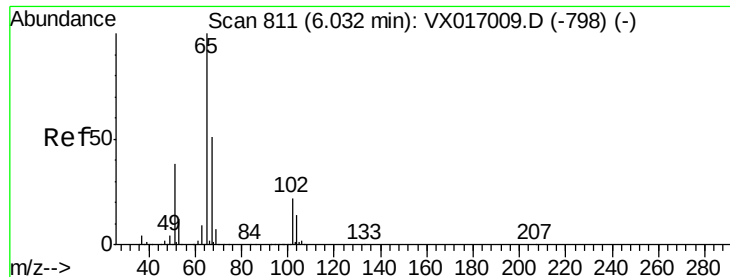
Cyclohexane
Concen: 1.225 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX017171.D
Acq: 06 Jul 2020 16:26

Tgt Ion	56	Resp	5660
Ion	Ratio	Lower	Upper
56	100		
69	162.4	25.0	37.4#
84	109.4	69.1	103.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

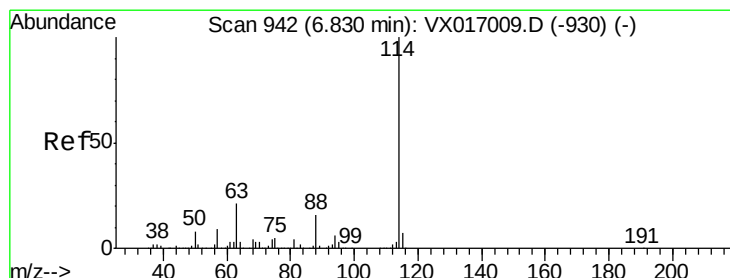
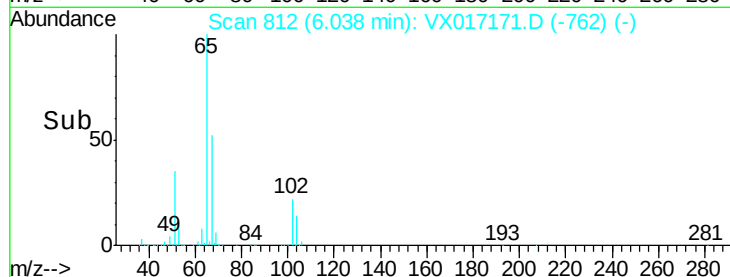
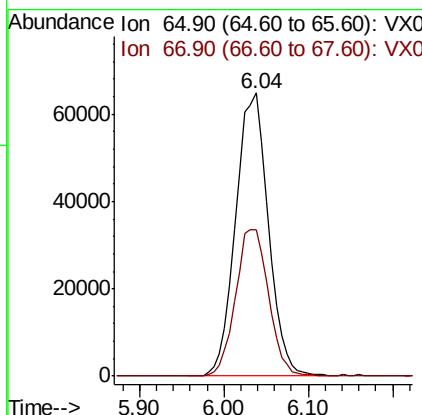
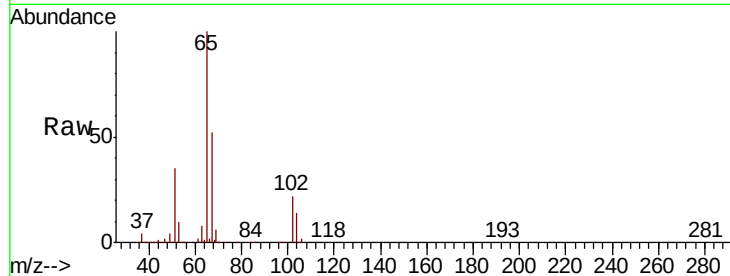




#33
 1,2-Dichloroethane-d4
 Concen: 49.681 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017171.D
 Acq: 06 Jul 2020 16:26

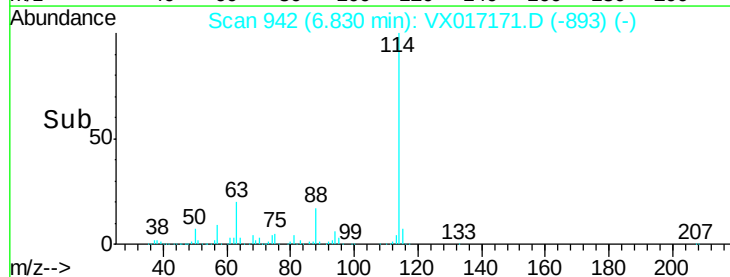
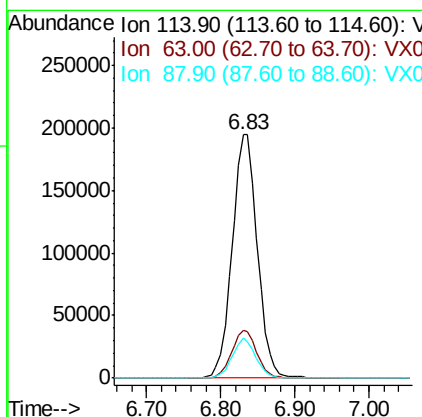
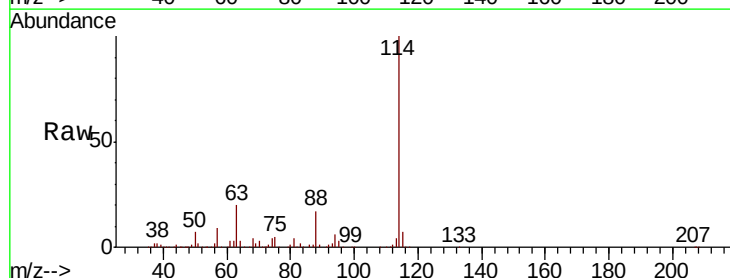
Instrument :
 MSVOA_X
 ClientSampleId :
 63BR-20200629

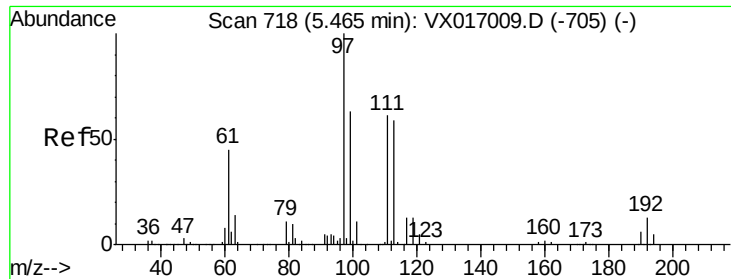
Tot Ion: 65 Resp: 170092
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017171.D
 Acq: 06 Jul 2020 16:26

Tgt Ion: 114 Resp: 460479
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 41.4
 88 16.6 0.0 32.4





#35

Dibromofluoromethane

Concen: 51.378 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

Instrument :

MSVOA_X

ClientSampleId :

63BR-20200629

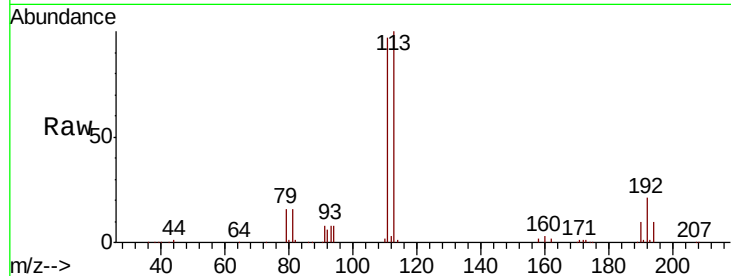
Tot Ion:113 Resp: 149656

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

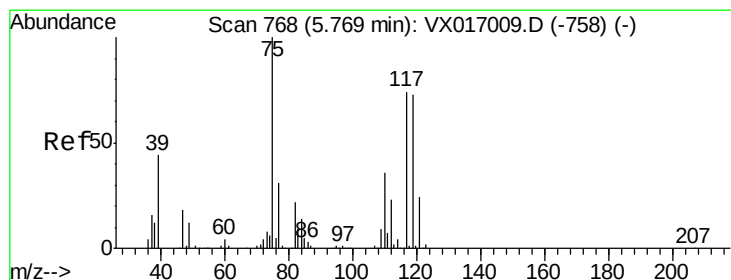
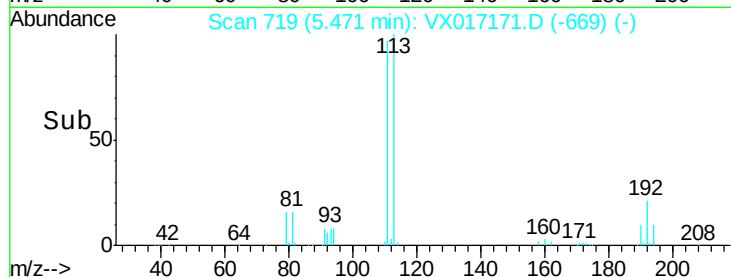
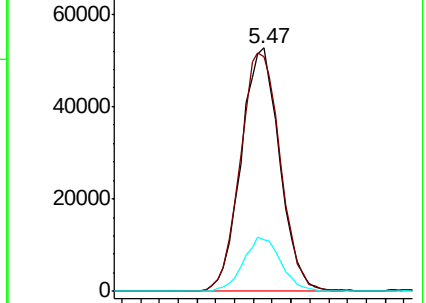
192 21.7 16.7 25.1



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: 4.520 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

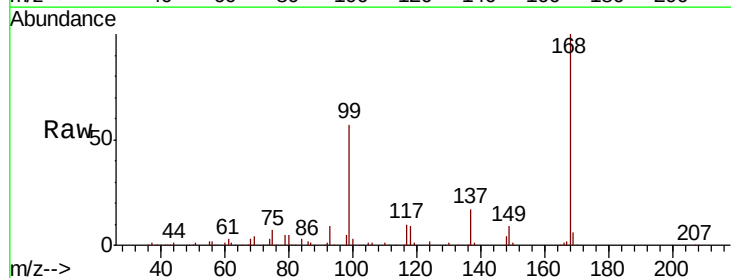
Tgt Ion: 75 Resp: 19670

Ion Ratio Lower Upper

75 100

110 6.7 18.1 54.1#

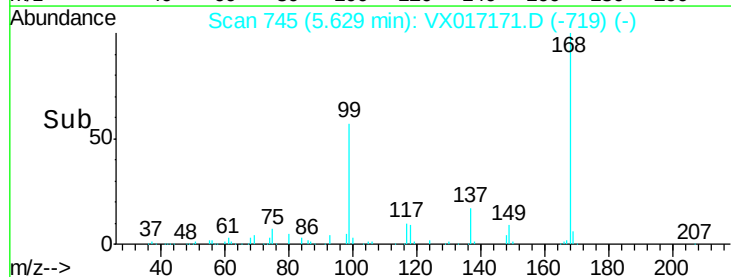
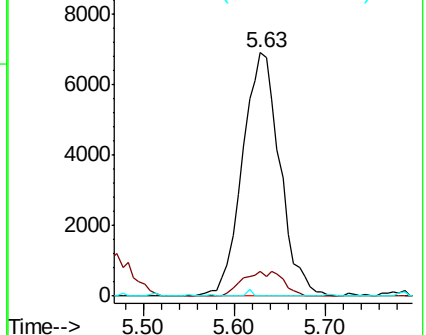
77 0.3 24.6 37.0#

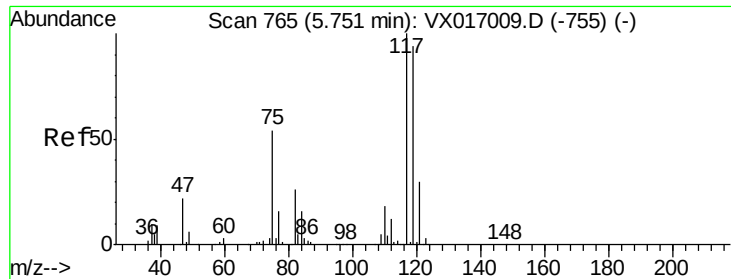


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.516 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

Instrument :

MSVOA_X

ClientSampleId :

63BR-20200629

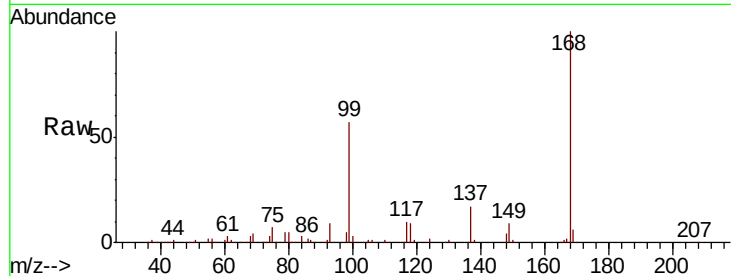
Tot Ion:117 Resp: 26440

Ion Ratio Lower Upper

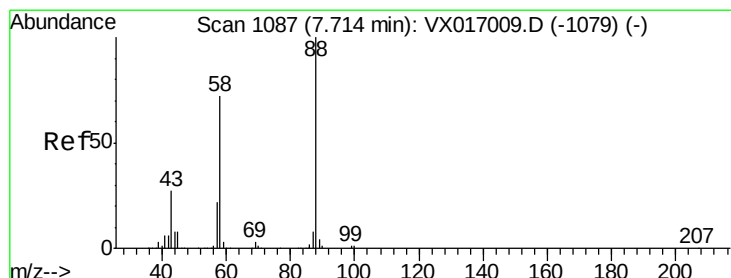
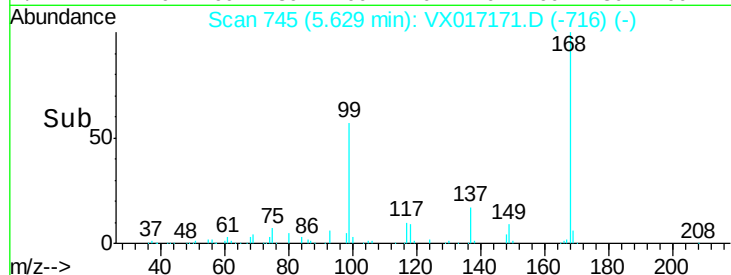
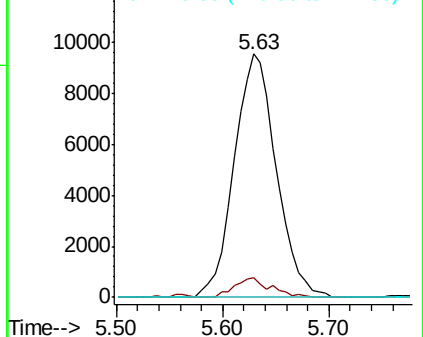
117 100

119 8.0 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



#49

1,4-Dioxane

Concen: 0.481 ug/l

RT: 7.67 min Scan# 1080

Delta R.T. -0.04 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

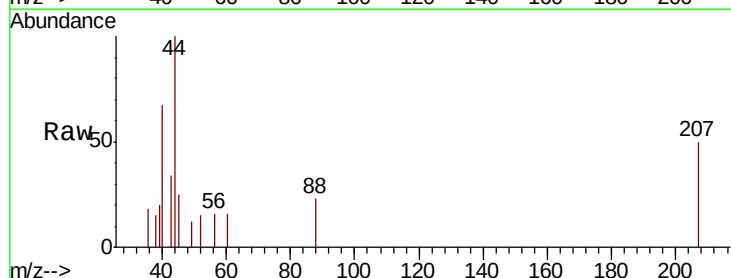
Tgt Ion: 88 Resp: 38

Ion Ratio Lower Upper

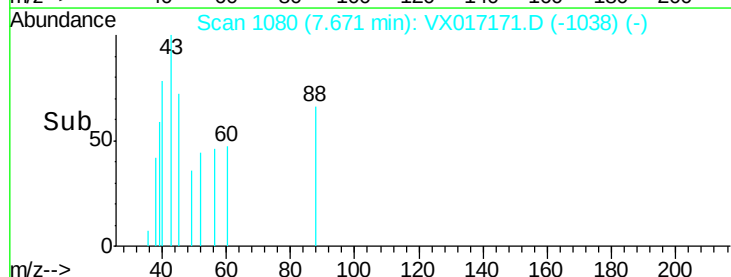
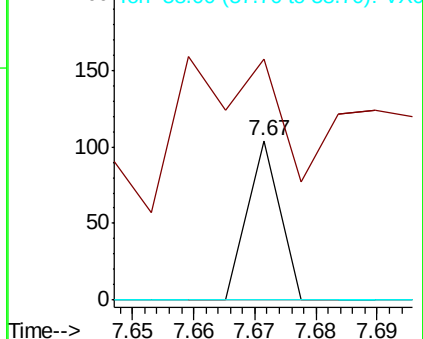
88 100

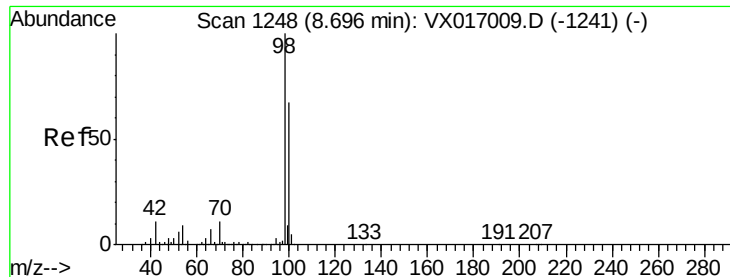
43 436.8 25.8 38.8#

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

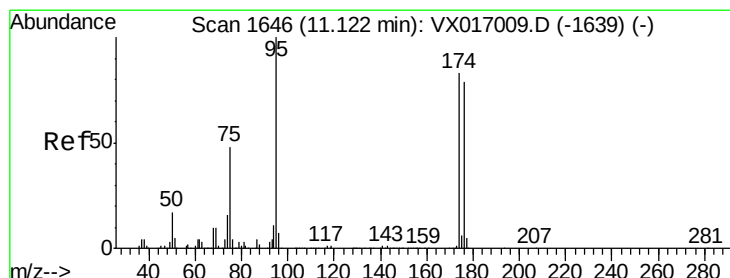
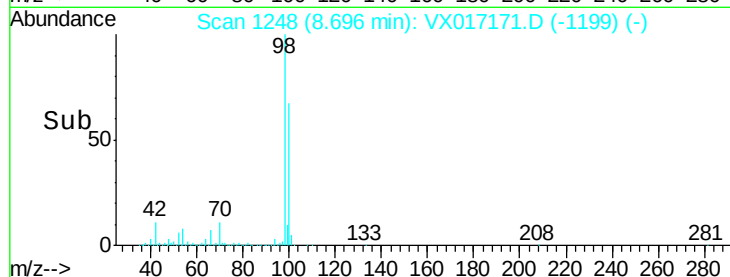
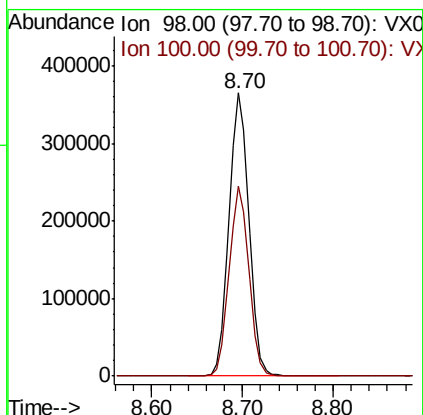
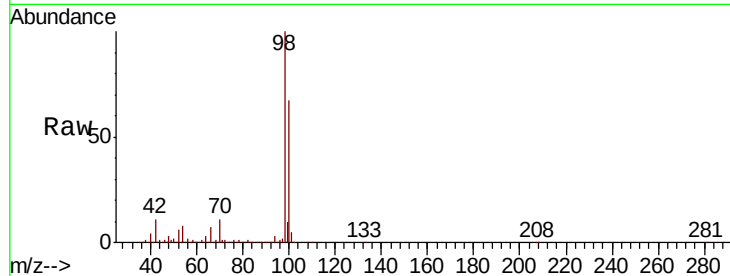




#50
Toluene-d8
Concen: 51.720 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017171.D
Acq: 06 Jul 2020 16:26

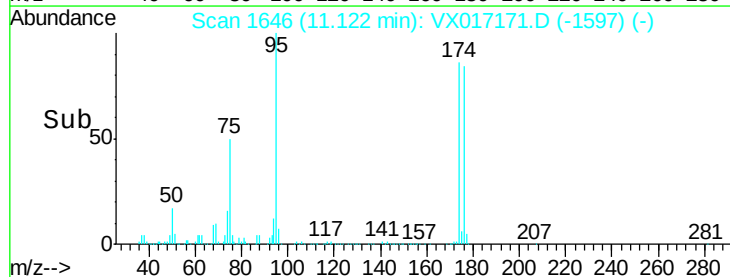
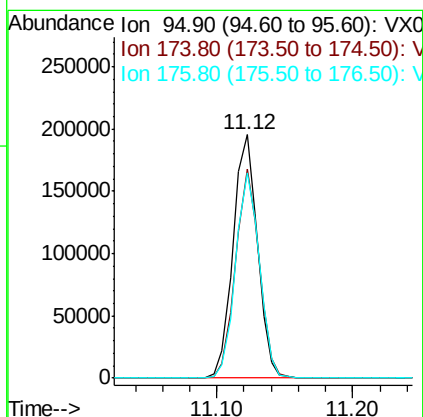
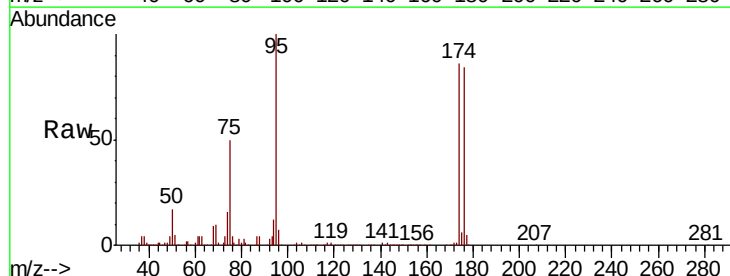
Instrument :
MSVOA_X
ClientSampleId :
63BR-20200629

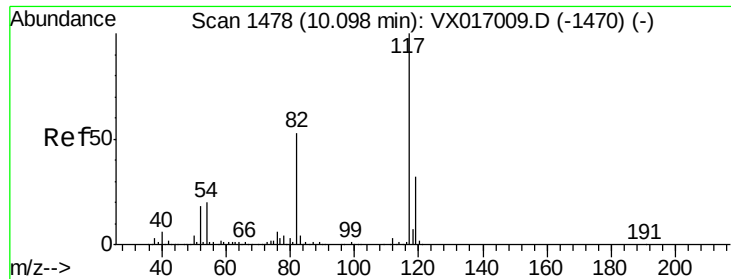
Tot Ion: 98 Resp: 557081
Ion Ratio Lower Upper
98 100
100 66.5 53.8 80.6



#62
4-Bromofluorobenzene
Concen: 57.931 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017171.D
Acq: 06 Jul 2020 16:26

Tgt Ion: 95 Resp: 243924
Ion Ratio Lower Upper
95 100
174 83.8 0.0 164.0
176 82.6 0.0 157.6

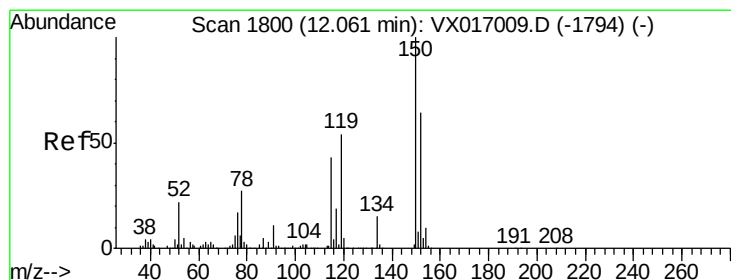
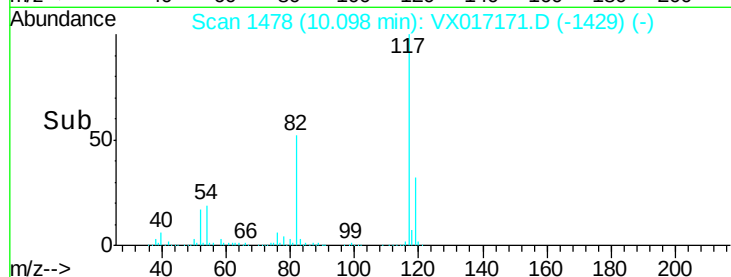
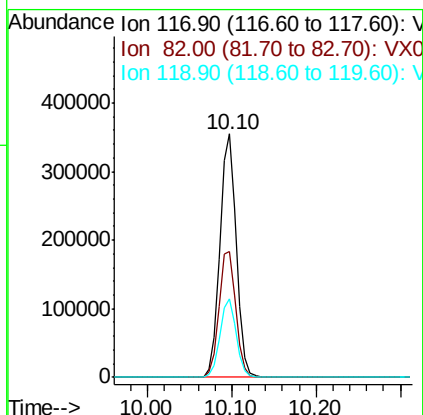
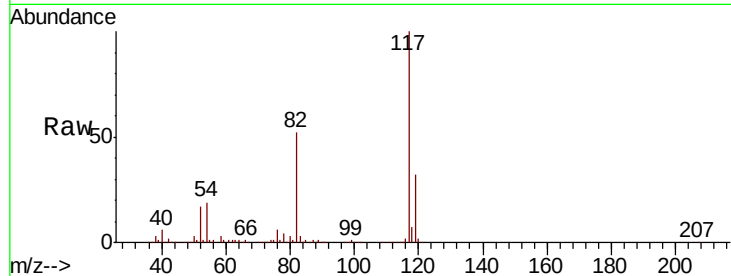




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017171.D
Acq: 06 Jul 2020 16:26

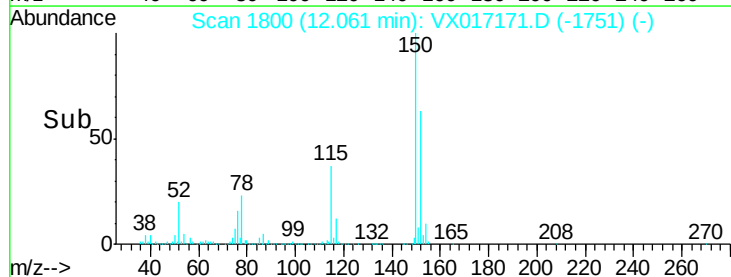
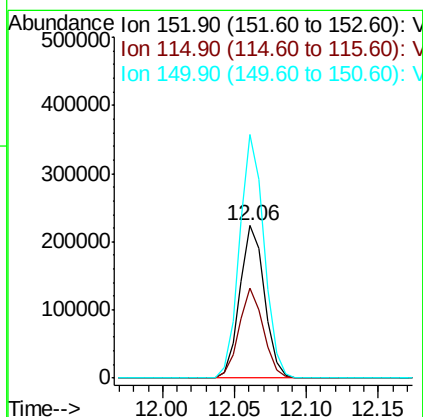
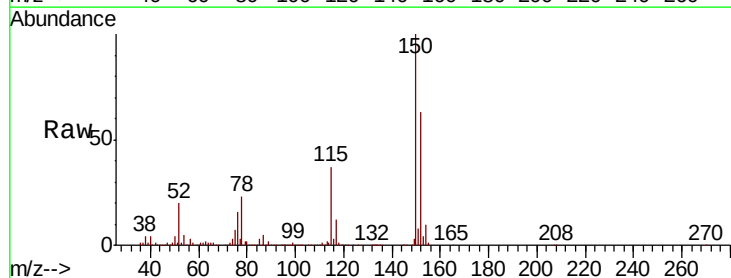
Instrument :
MSVOA_X
ClientSampleId :
63BR-20200629

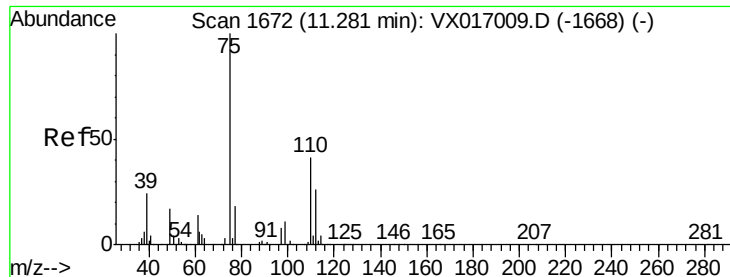
Tot Ion:117 Resp: 477950
Ion Ratio Lower Upper
117 100
82 51.8 42.6 63.8
119 32.4 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017171.D
Acq: 06 Jul 2020 16:26

Tgt Ion:152 Resp: 266365
Ion Ratio Lower Upper
152 100
115 57.5 40.9 122.7
150 158.7 0.0 351.6

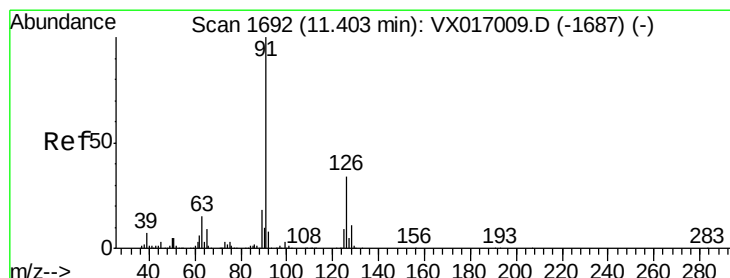
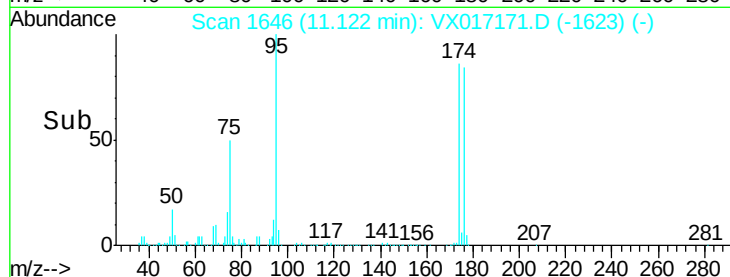
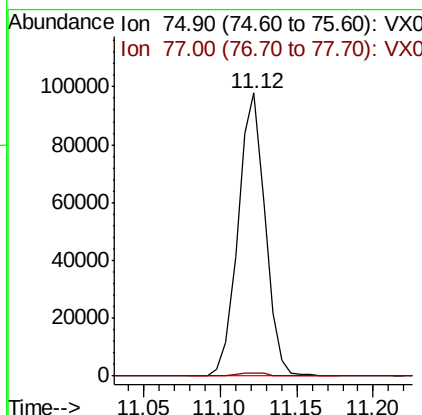
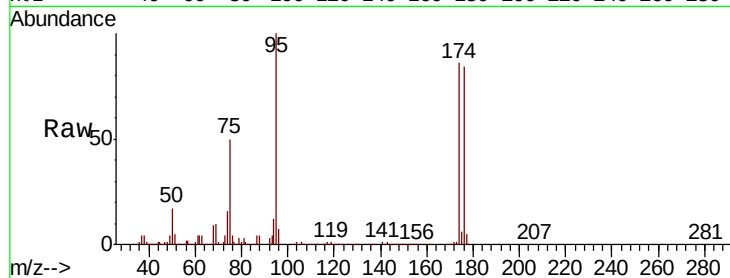




#76
 1,2,3-Trichloropropane
 Concen: 22.875 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX017171.D
 Acq: 06 Jul 2020 16:26

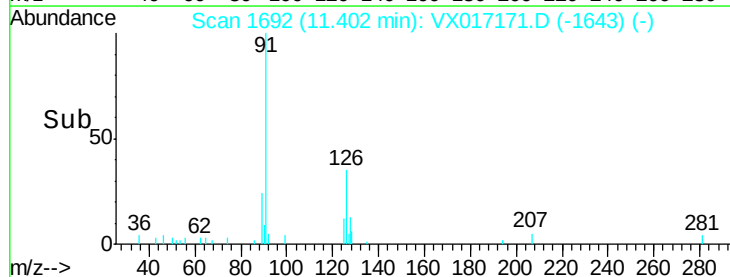
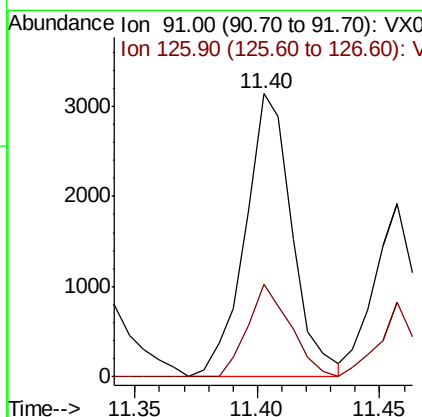
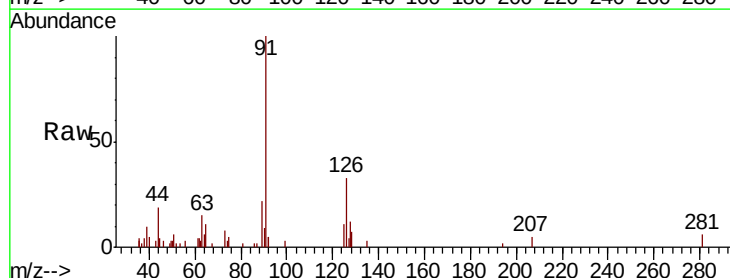
Instrument :
 MSVOA_X
 ClientSampleId :
 63BR-20200629

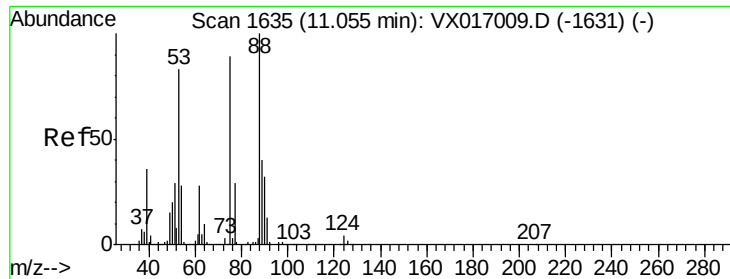
Tot Ion: 75 Resp: 119818
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.2 60.6#



#79
 2-Chlorotoluene
 Concen: 0.353 ug/l
 RT: 11.40 min Scan# 1692
 Delta R.T. -0.00 min
 Lab File: VX017171.D
 Acq: 06 Jul 2020 16:26

Tgt Ion: 91 Resp: 4218
 Ion Ratio Lower Upper
 91 100
 126 29.6 17.4 52.3

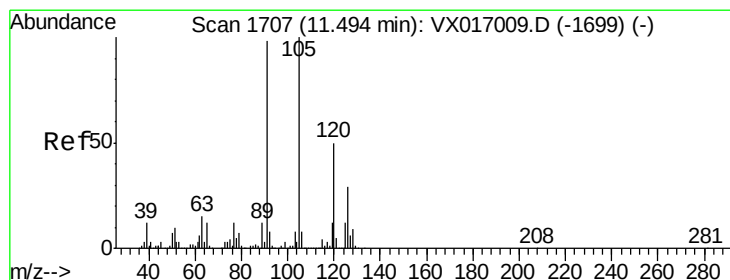
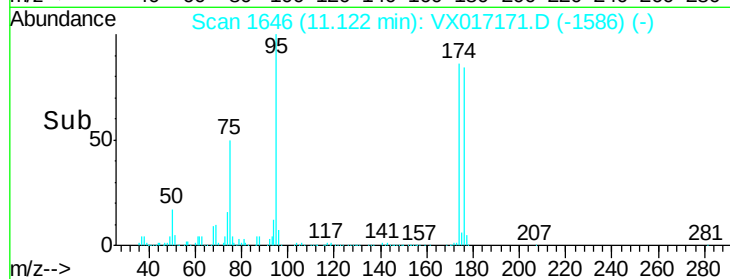
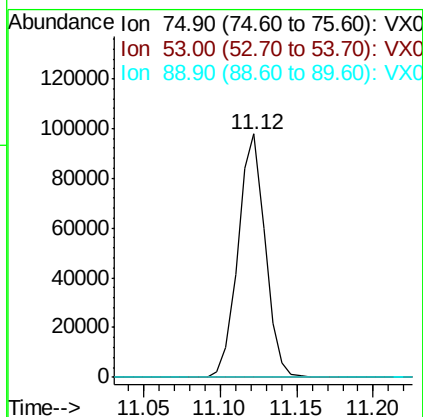
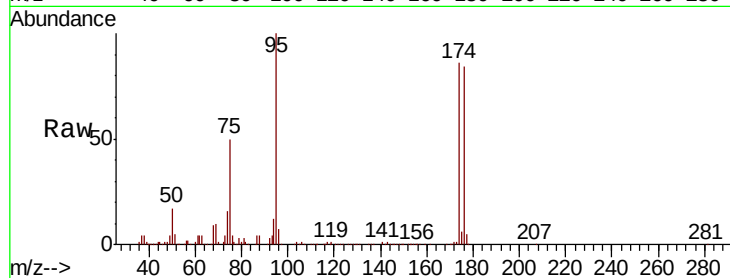




#81
trans-1,4-Dichloro-2-butene
Concen: 59.238 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX017171.D
Acq: 06 Jul 2020 16:26

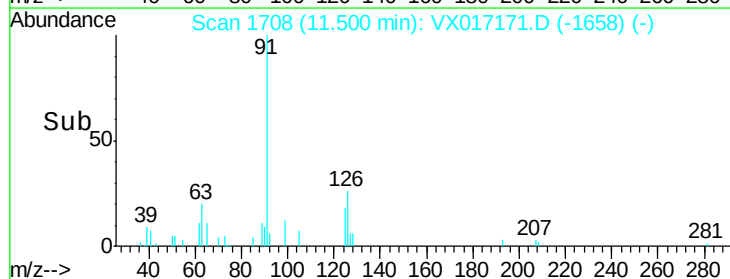
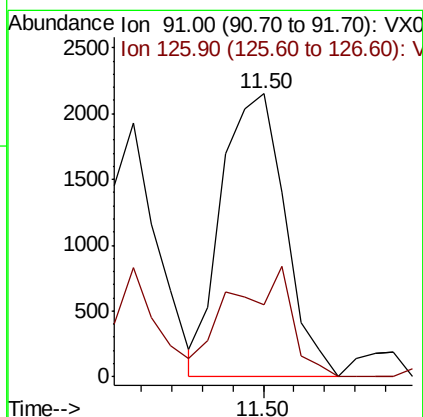
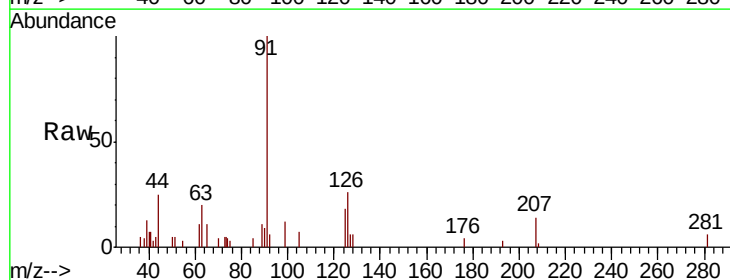
Instrument :
MSVOA_X
ClientSampleId :
63BR-20200629

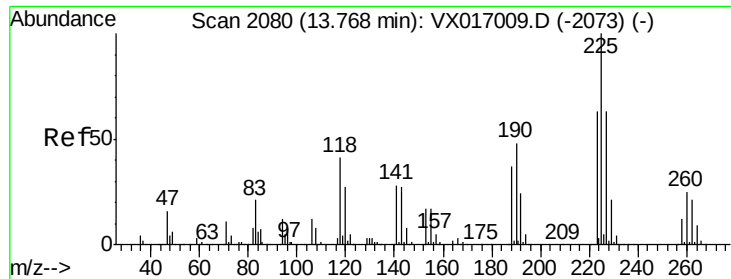
Tot Ion: 75 Resp: 119818
Ion Ratio Lower Upper
75 100
53 0.1 72.4 108.6#
89 0.0 37.0 55.4#



#82
4-Chlorotoluene
Concen: 0.216 ug/l
RT: 11.50 min Scan# 1708
Delta R.T. 0.01 min
Lab File: VX017171.D
Acq: 06 Jul 2020 16:26

Tgt Ion: 91 Resp: 3081
Ion Ratio Lower Upper
91 100
126 37.7 15.2 45.5





#94

Hexachlorobutadiene

Concen: 0.943 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017171.D

Acq: 06 Jul 2020 16:26

Instrument :

MSVOA_X

ClientSampleId :

63BR-20200629

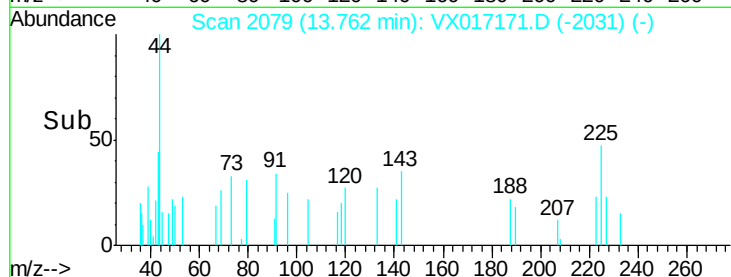
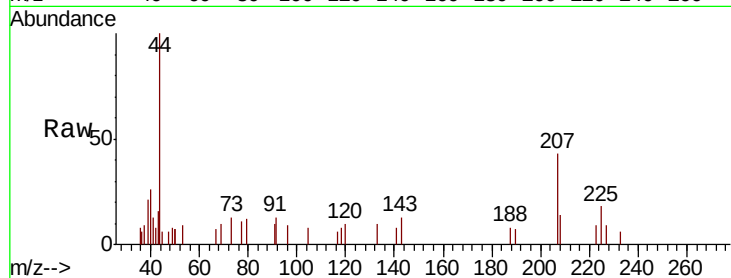
Tot Ion:225 Resp: 211

Ion Ratio Lower Upper

225 100

223 24.6 32.5 97.5#

227 40.8 33.1 99.2



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

