

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070720\
 Data File : VX017206.D
 Acq On : 07 Jul 2020 16:15
 Operator : JC/SP
 Sample : L3159-22DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 40BR-20200629DL

Quant Time: Jul 08 01:53:52 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	254456	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	422772	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	435537	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	236477	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	164676	52.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.00%	
35) Dibromofluoromethane	5.46	113	142553	53.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.60%	
50) Toluene-d8	8.70	98	509757	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
62) 4-Bromofluorobenzene	11.12	95	211291	54.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.32%	

Target Compounds

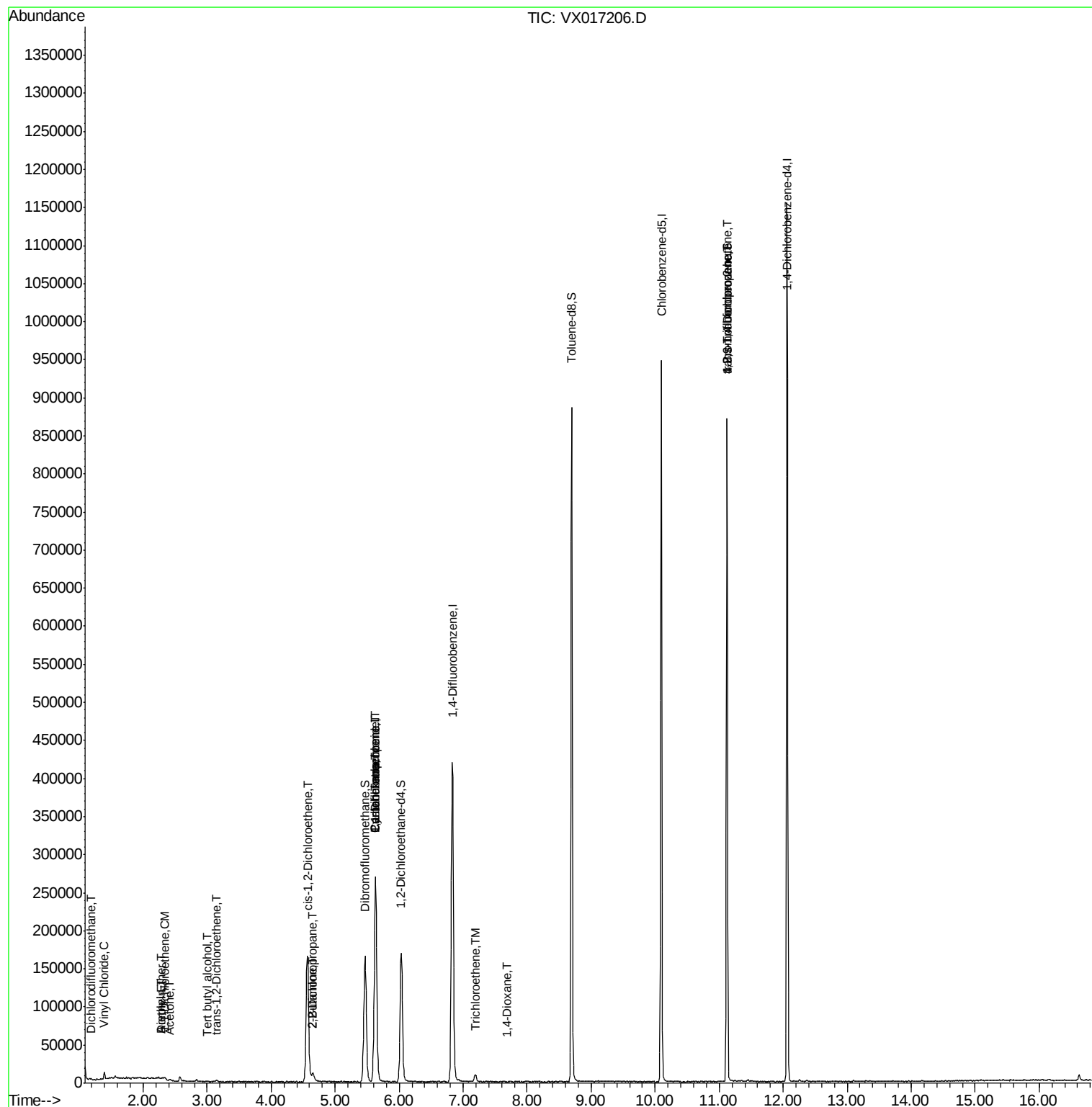
						Qvalue
2) Dichlorodifluoromethane	1.18	85	1021	0.415	ug/l	81
4) Vinyl Chloride	1.39	62	5491	1.986	ug/l	96
8) Diethyl Ether	2.28	74	125	0.456	ug/l	99
11) Tert butyl alcohol	3.01	59	520	0.869	ug/l #	73
12) 1,1-Dichloroethene	2.35	96	575	0.228	ug/l #	63
13) Acrolein	2.28	56	319	0.892	ug/l #	66
16) Acetone	2.42	43	1868	1.592	ug/l	93
20) Methylene Chloride	2.84	84	974	Below Cal	#	66
21) trans-1,2-Dichloroethene	3.15	96	1081	0.387	ug/l #	41
25) 2-Butanone	4.64	43	714	0.365	ug/l #	49
26) 2,2-Dichloropropane	4.65	77	874	0.201	ug/l #	53
27) cis-1,2-Dichloroethene	4.56	96	111750	35.302	ug/l	89
31) Cyclohexane	5.63	56	5329	1.258	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	18339	4.590	ug/l #	52
38) Carbon Tetrachloride	5.63	117	25166	5.718	ug/l #	18
44) Trichloroethene	7.19	130	3842	0.882	ug/l	97
49) 1,4-Dioxane	7.69	88	22	0.303	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	105438	22.674	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	105438	58.717	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	292	Below Cal		74

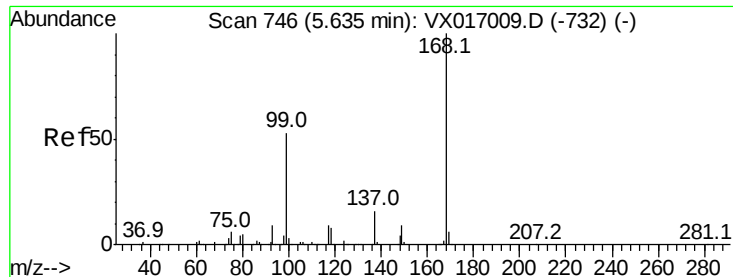
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017206.D

Acq: 07 Jul 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

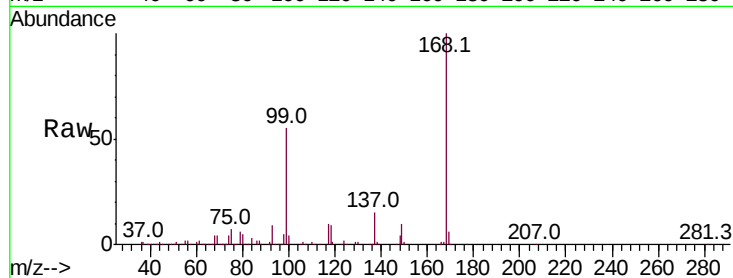
40BR-20200629DL

Tot Ion:168 Resp: 254456

Ion Ratio Lower Upper

168 100

99 54.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

100000

80000

60000

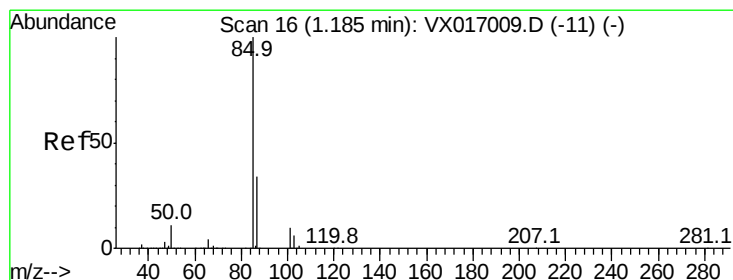
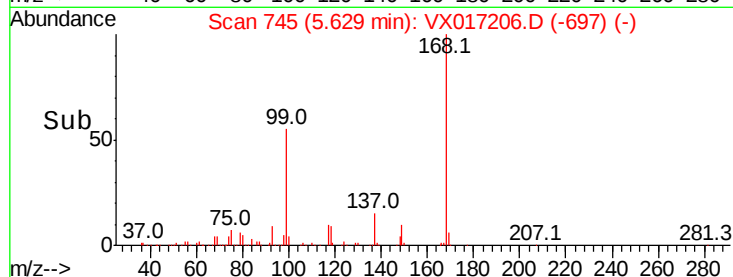
40000

20000

0

5.50 5.63 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.415 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX017206.D

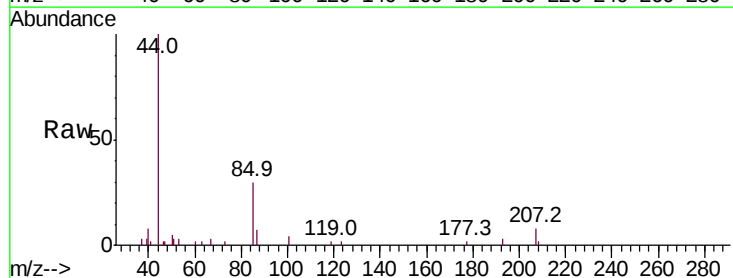
Acq: 07 Jul 2020 16:15

Tgt Ion: 85 Resp: 1021

Ion Ratio Lower Upper

85 100

87 23.0 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1000

800

600

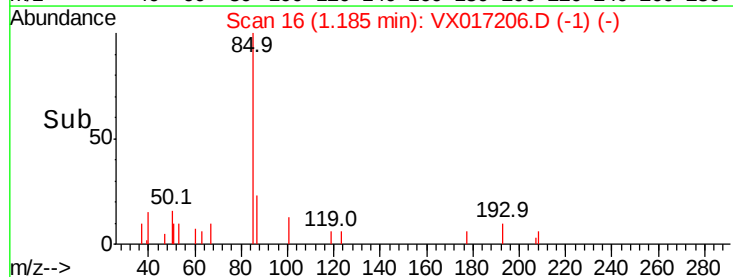
400

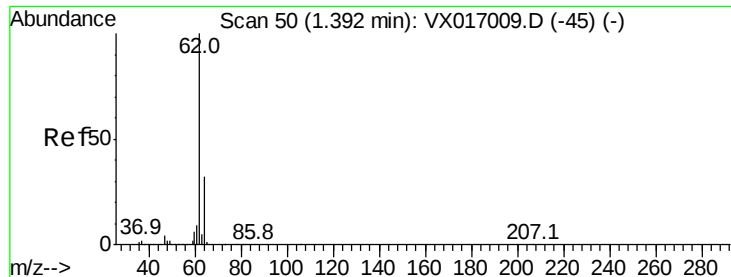
200

0

1.15 1.18 1.20

Time-->





#4

Vinyl Chloride

Concen: 1.986 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017206.D

Acq: 07 Jul 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

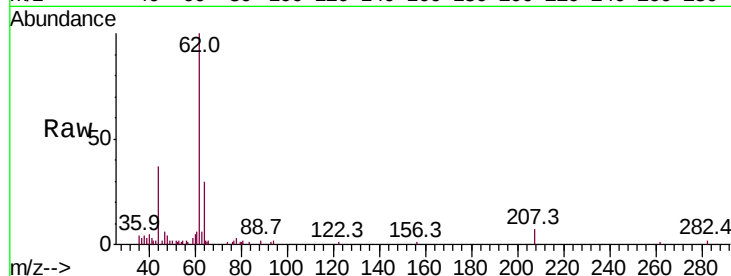
40BR-20200629DL

Tot Ion: 62 Resp: 5491

Ion Ratio Lower Upper

62 100

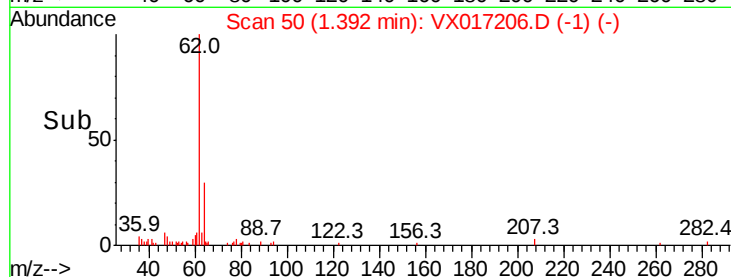
64 29.9 25.9 38.9



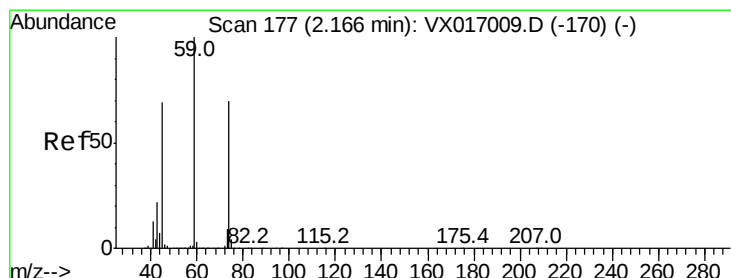
Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39



Time-->



#8

Diethyl Ether

Concen: 0.456 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.11 min

Lab File: VX017206.D

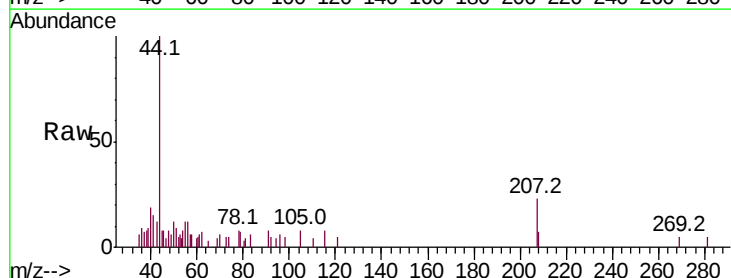
Acq: 07 Jul 2020 16:15

Tgt Ion: 74 Resp: 125

Ion Ratio Lower Upper

74 100

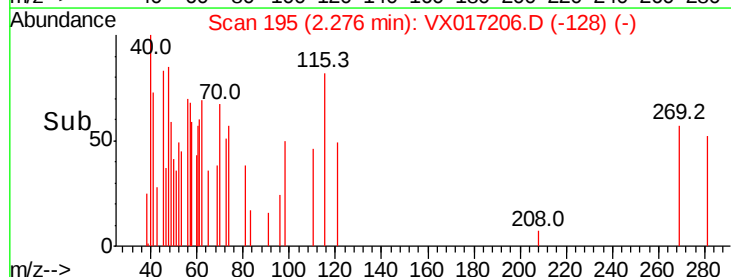
45 98.4 49.8 149.3



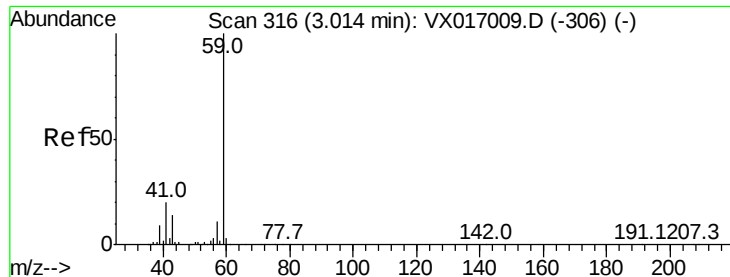
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.28



Time-->



#11

Tert butyl alcohol

Concen: 0.869 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

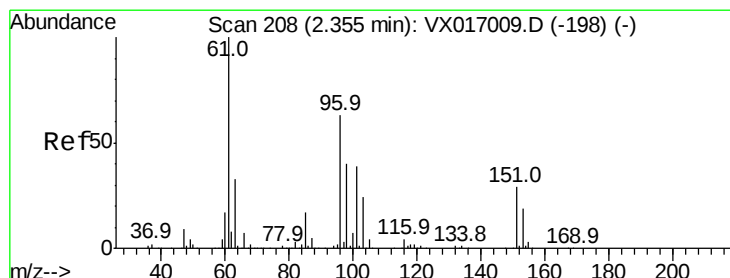
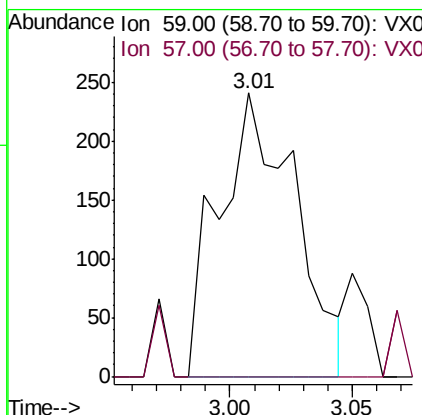
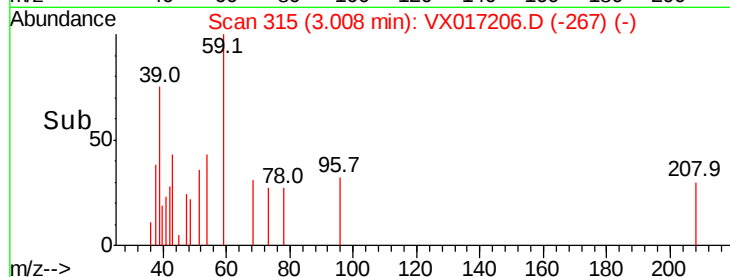
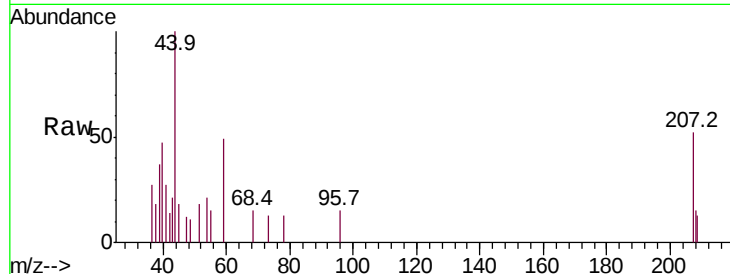
Lab File: VX017206.D

Acq: 07 Jul 2020 16:15

Instrument :
MSVOA_X
ClientSampleId :
40BR-20200629DL

Tot Ion: 59 Resp: 520

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#



#12

1,1-Dichloroethene

Concen: 0.228 ug/l

RT: 2.35 min Scan# 207

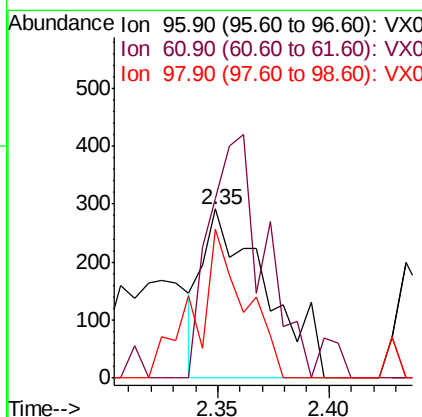
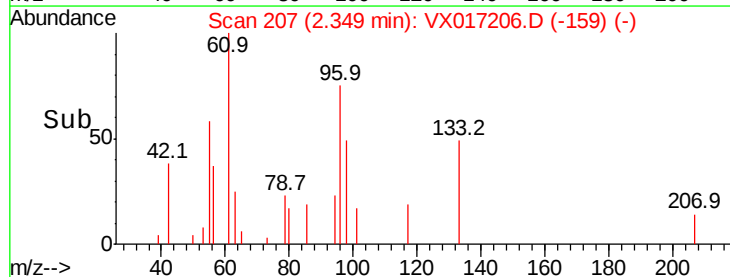
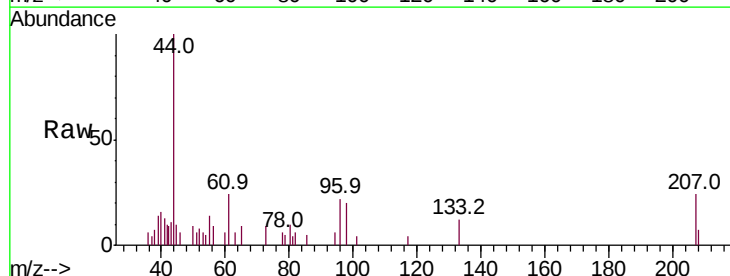
Delta R.T. -0.01 min

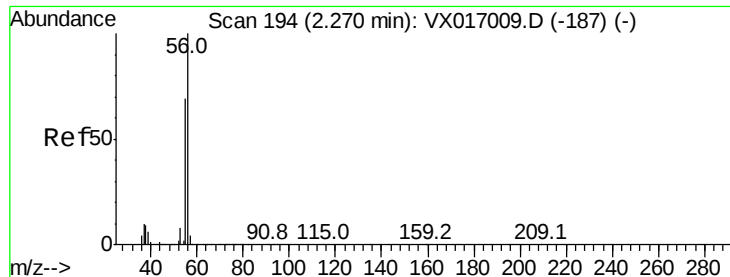
Lab File: VX017206.D

Acq: 07 Jul 2020 16:15

Tgt Ion: 96 Resp: 575

Ion	Ratio	Lower	Upper
96	100		
61	106.2	126.3	189.5#
98	88.3	51.0	76.6#





#13

Acrolein

Concen: 0.892 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX017206.D

Acq: 07 Jul 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

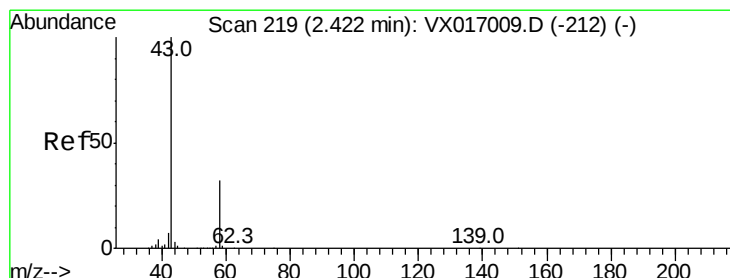
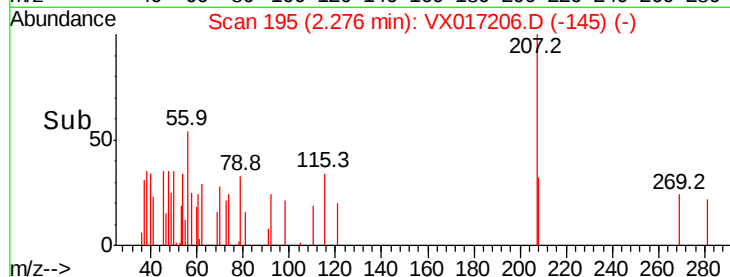
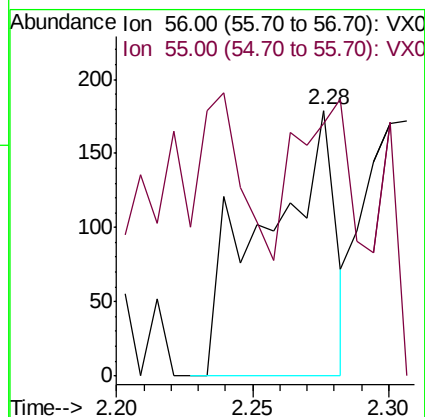
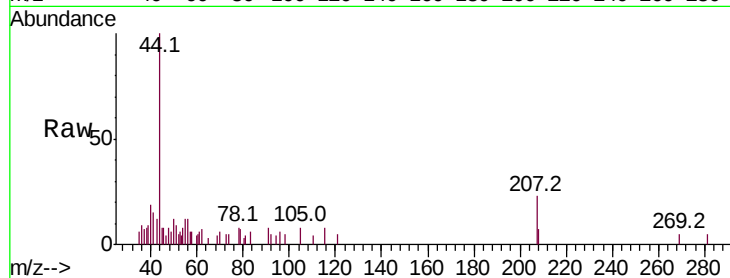
40BR-20200629DL

Tot Ion: 56 Resp: 319

Ion Ratio Lower Upper

56 100

55 97.5 55.7 83.5#



#16

Acetone

Concen: 1.592 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017206.D

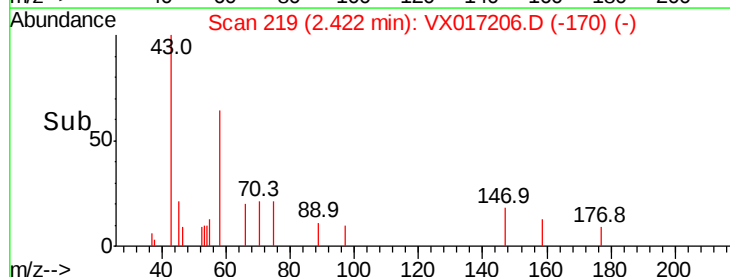
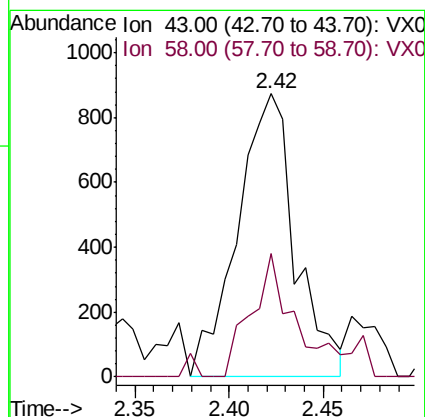
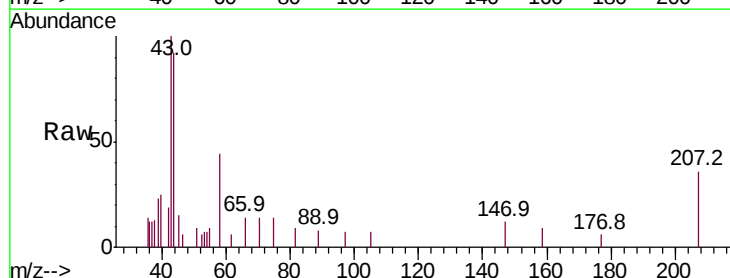
Acq: 07 Jul 2020 16:15

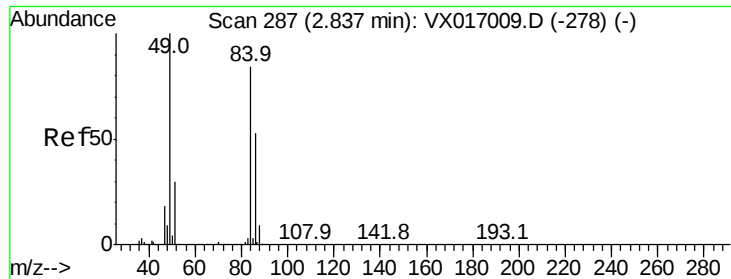
Tgt Ion: 43 Resp: 1868

Ion Ratio Lower Upper

43 100

58 35.7 25.7 38.5

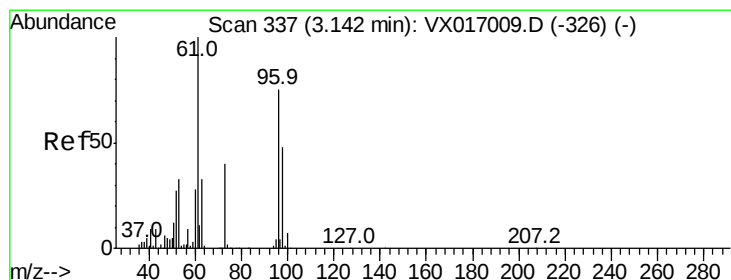
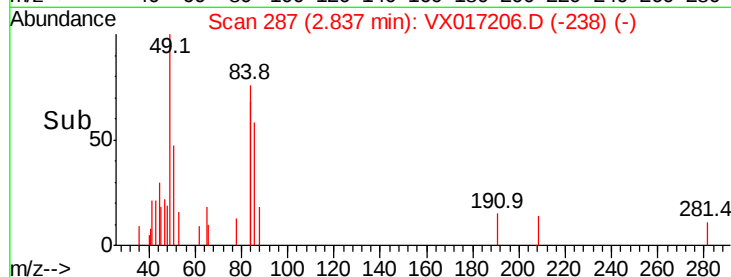
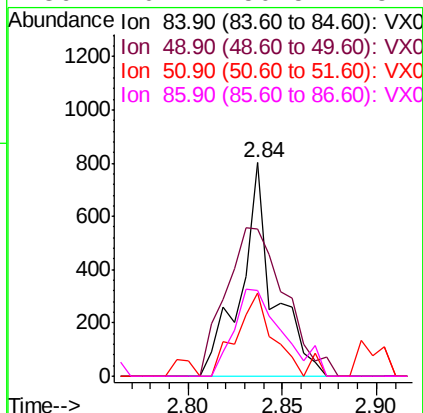
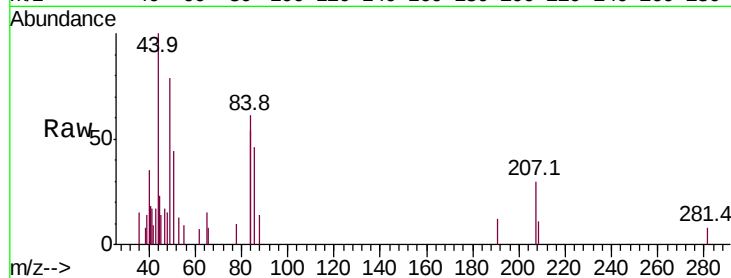




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017206.D
Acq: 07 Jul 2020 16:15

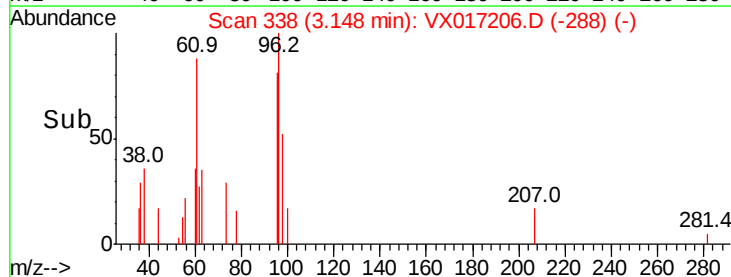
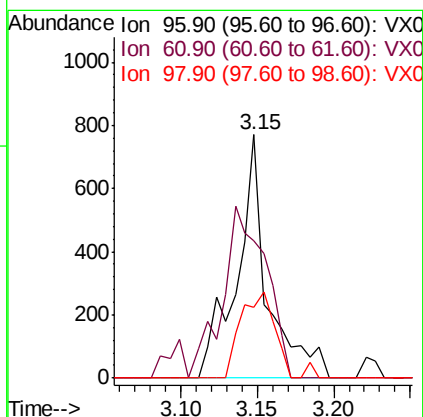
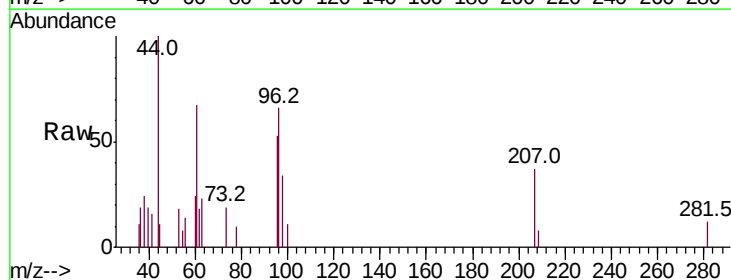
Instrument :
MSVOA_X
ClientSampleId :
40BR-20200629DL

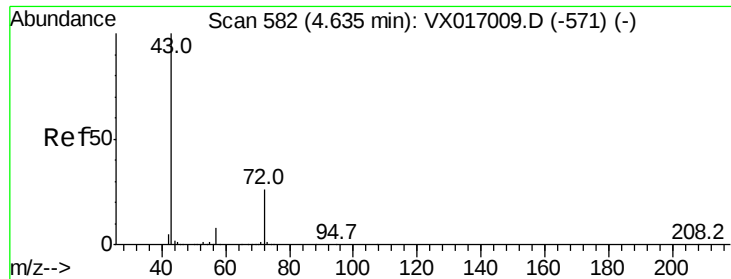
Tot Ion: 84 Resp: 974
Ion Ratio Lower Upper
84 100
49 69.2 94.7 142.1#
51 38.8 28.6 42.8
86 40.1 50.5 75.7#



#21
trans-1,2-Dichloroethene
Concen: 0.387 ug/l
RT: 3.15 min Scan# 338
Delta R.T. 0.01 min
Lab File: VX017206.D
Acq: 07 Jul 2020 16:15

Tgt Ion: 96 Resp: 1081
Ion Ratio Lower Upper
96 100
61 56.2 107.0 160.6#
98 28.9 51.6 77.4#





#25

2-Butanone

Concen: 0.365 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX017206.D

Acq: 07 Jul 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

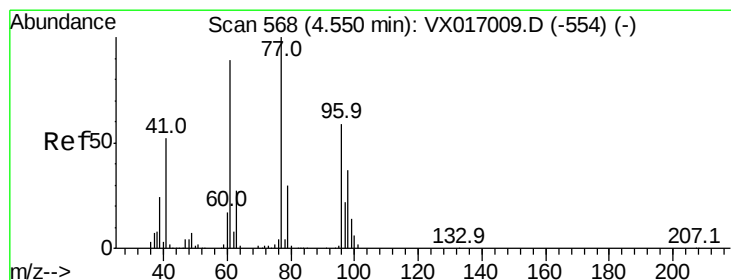
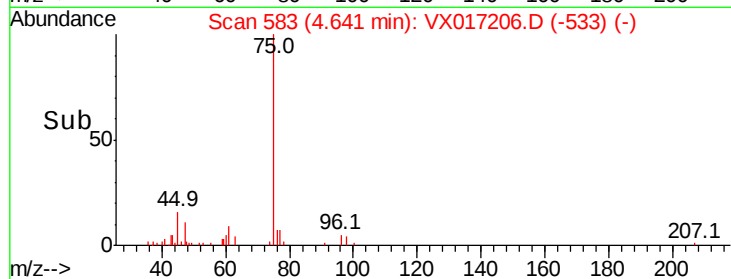
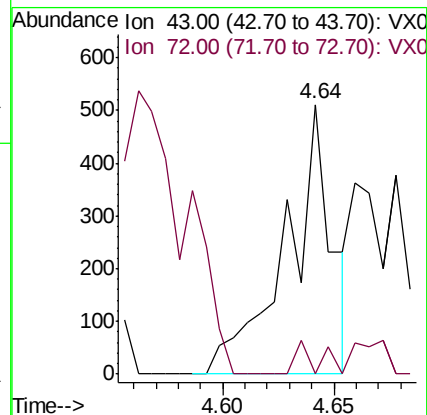
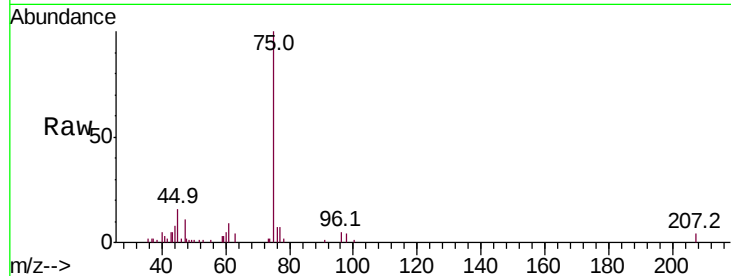
40BR-20200629DL

Tot Ion: 43 Resp: 714

Ion Ratio Lower Upper

43 100

72 0.0 20.8 31.2#



#26

2,2-Dichloropropane

Concen: 0.201 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.10 min

Lab File: VX017206.D

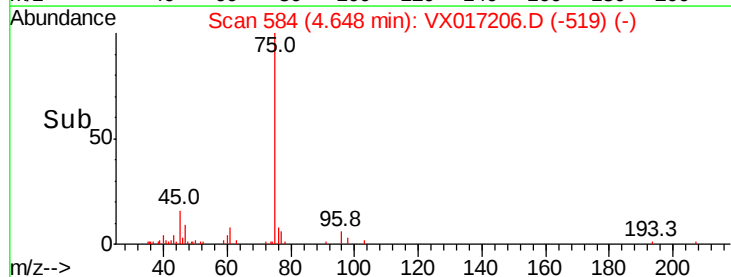
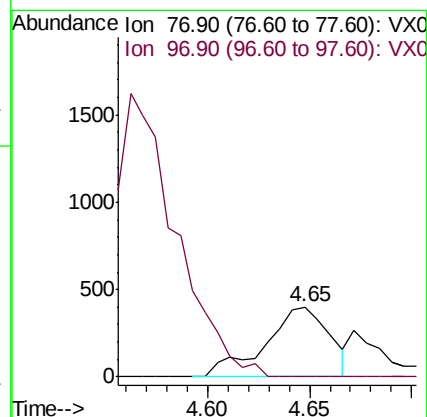
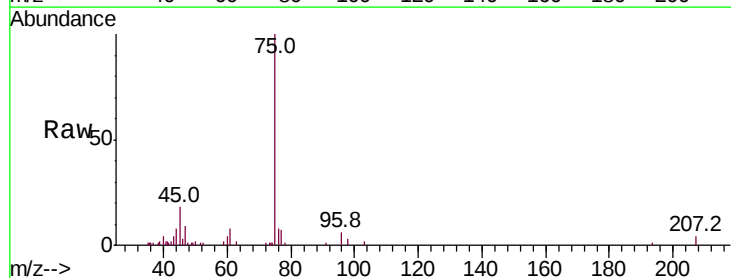
Acq: 07 Jul 2020 16:15

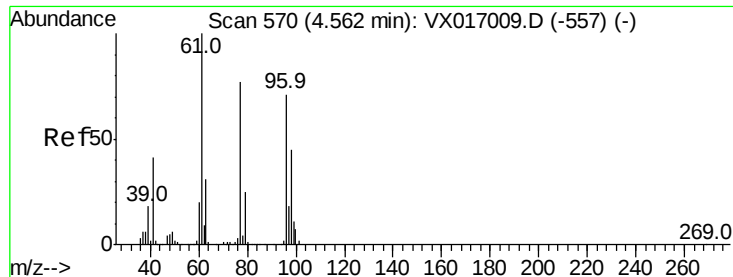
Tgt Ion: 77 Resp: 874

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



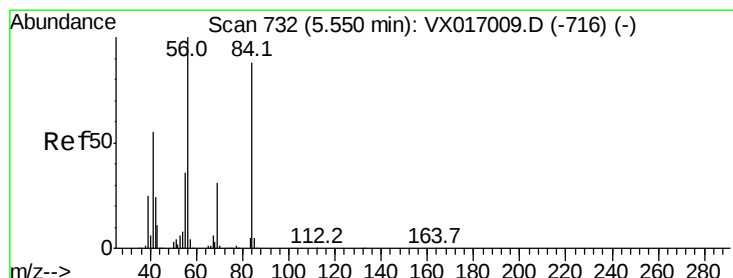
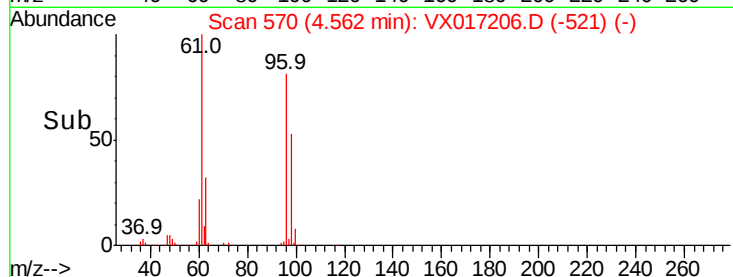
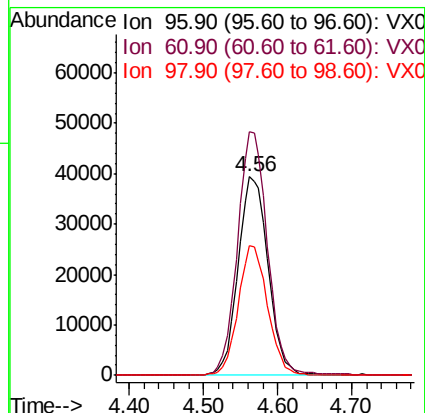
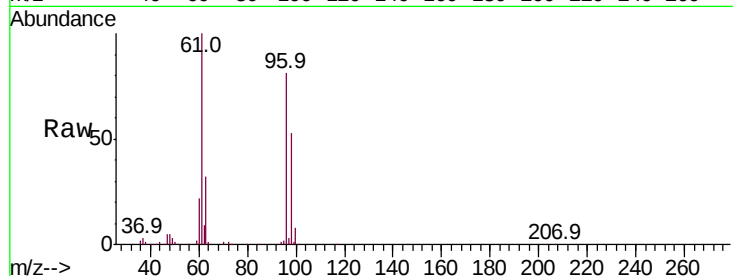


#27

cis-1,2-Dichloroethene
Concen: 35.302 ug/l
RT: 4.56 min Scan# 570
Delta R.T. -0.00 min
Lab File: VX017206.D
Acq: 07 Jul 2020 16:15

Instrument :
MSVOA_X
ClientSampleId :
40BR-20200629DL

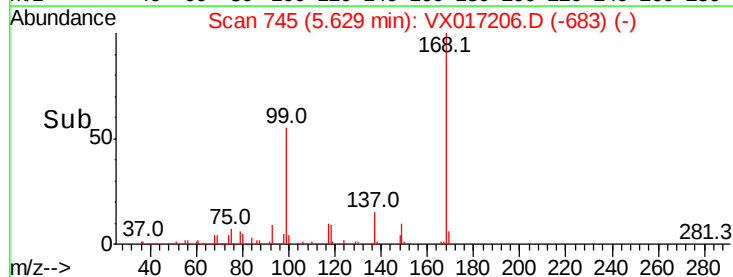
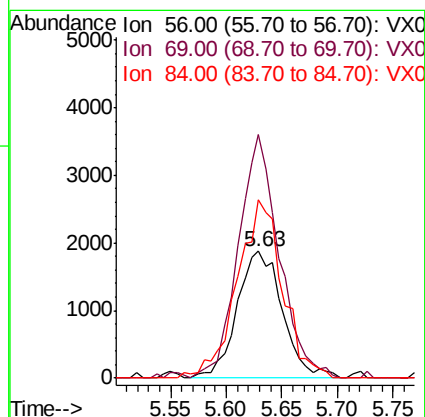
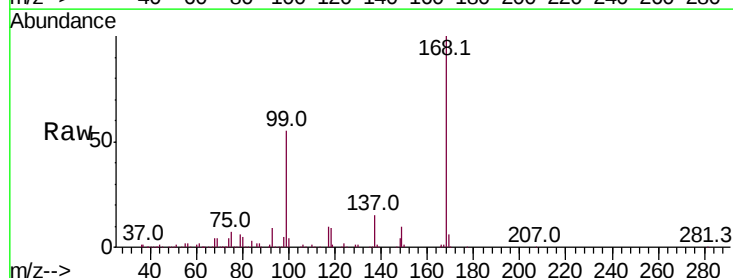
Tot Ion	Ratio	Lower	Upper
96	100		
61	121.9	0.0	282.8
98	63.8	0.0	127.6

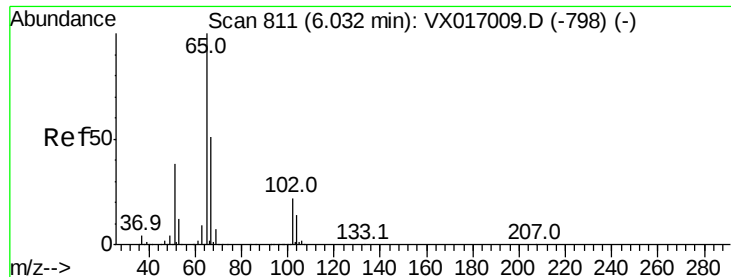


#31

Cyclohexane
Concen: 1.258 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX017206.D
Acq: 07 Jul 2020 16:15

Tgt Ion	Ratio	Lower	Upper
56	100		
69	191.9	25.0	37.4#
84	140.2	69.1	103.7#





#33

1,2-Dichloroethane-d4

Concen: 52.496 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017206.D

Acq: 07 Jul 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

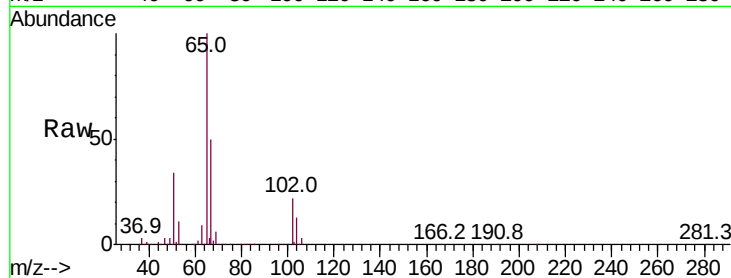
40BR-20200629DL

Tot Ion: 65 Resp: 164676

Ion Ratio Lower Upper

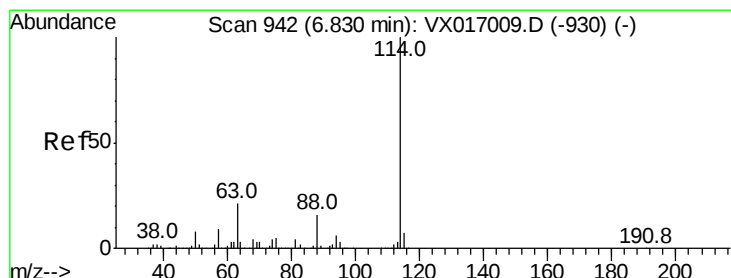
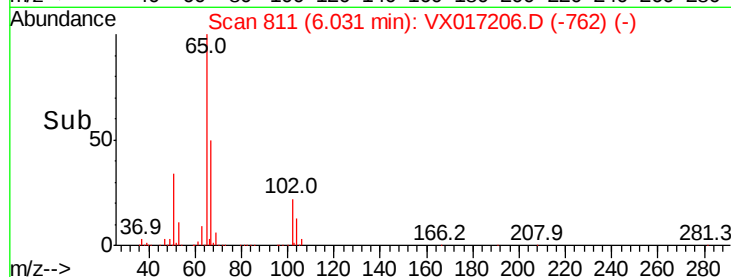
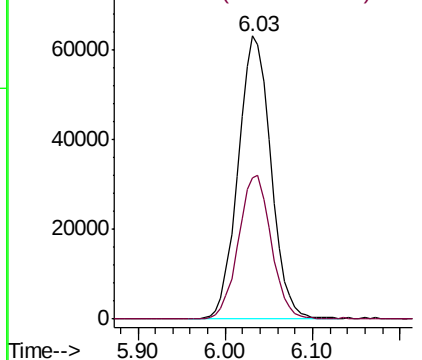
65 100

67 50.8 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: VX017206.D

Acq: 07 Jul 2020 16:15

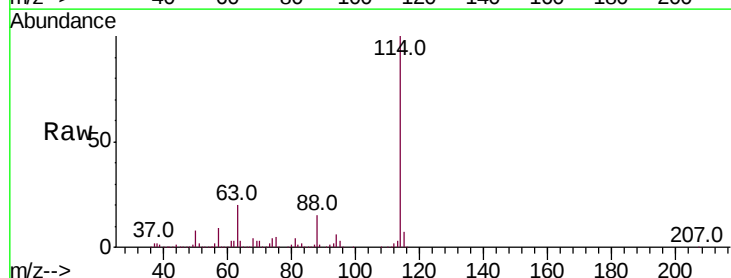
Tgt Ion: 114 Resp: 422772

Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.4

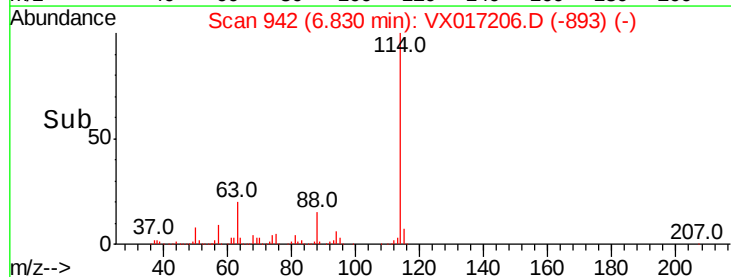
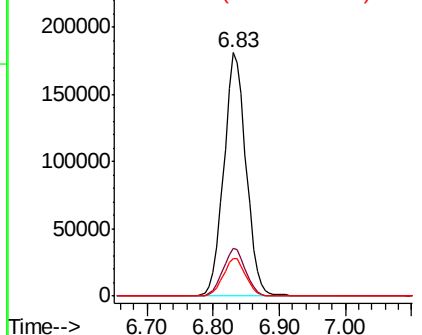
88 15.3 0.0 32.4

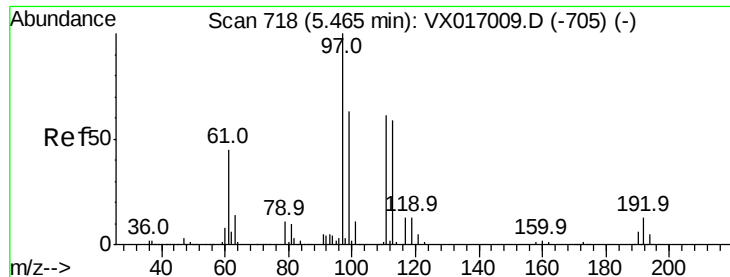


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

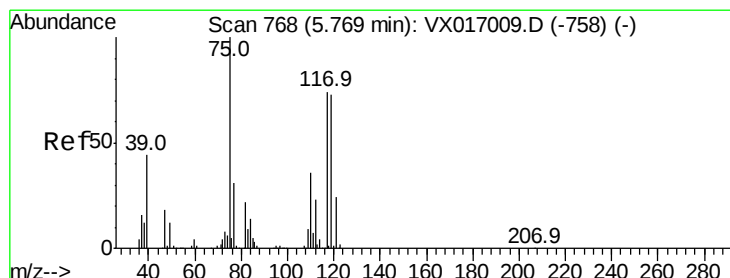
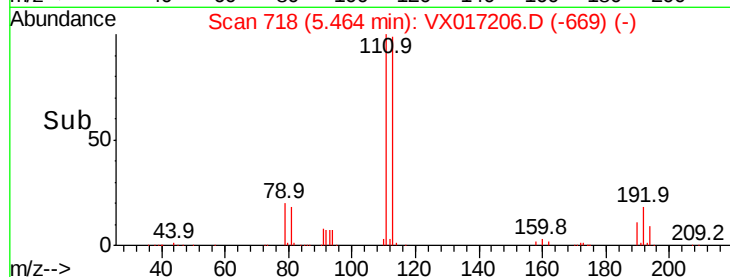
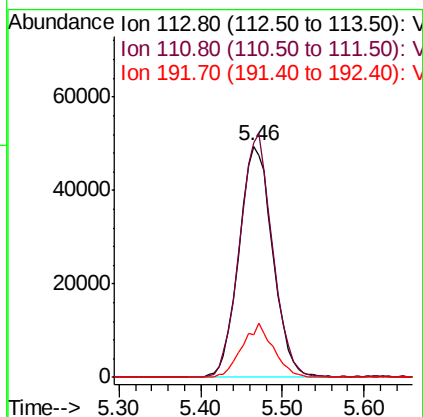
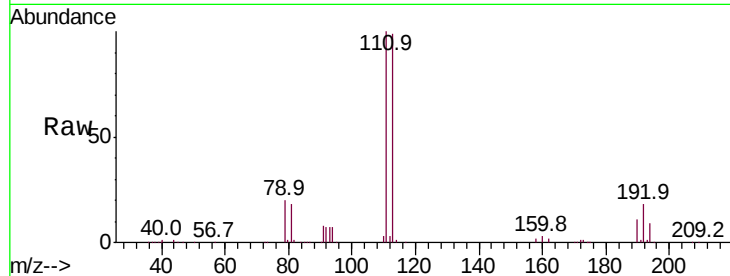




#35
 Dibromofluoromethane
 Concen: 53.304 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX017206.D
 Acq: 07 Jul 2020 16:15

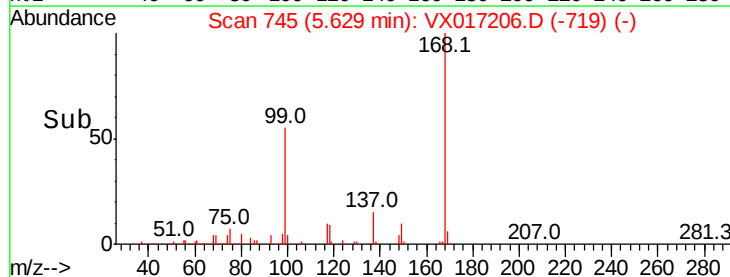
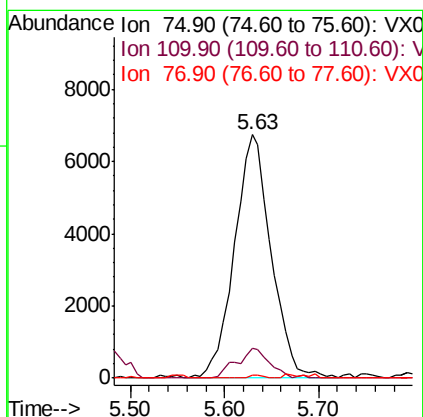
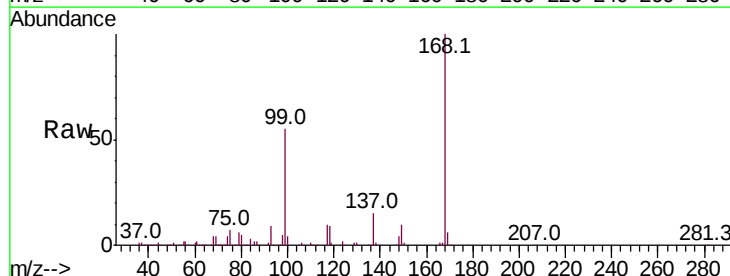
Instrument :
 MSVOA_X
 ClientSampleId :
 40BR-20200629DL

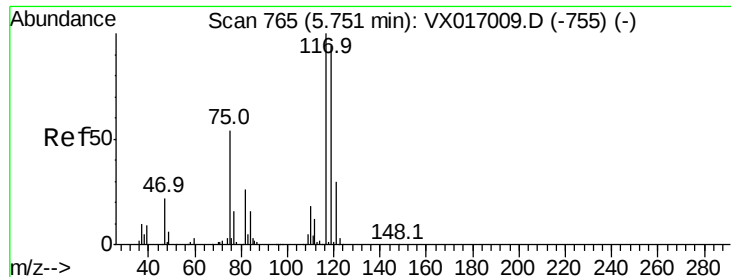
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.9	122.9
192	21.6	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 4.590 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017206.D
 Acq: 07 Jul 2020 16:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	18.1	54.1#
77	0.4	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 5.718 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017206.D

Acq: 07 Jul 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

40BR-20200629DL

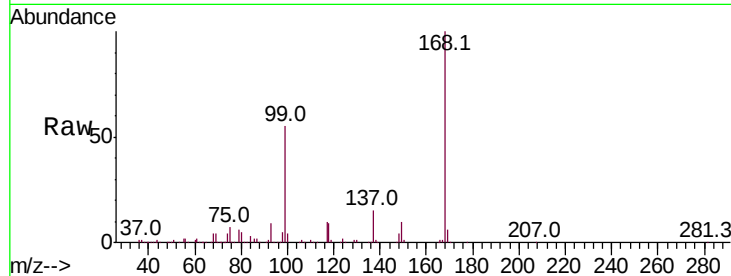
Tot Ion:117 Resp: 25166

Ion Ratio Lower Upper

117 100

119 6.9 75.4 113.0#

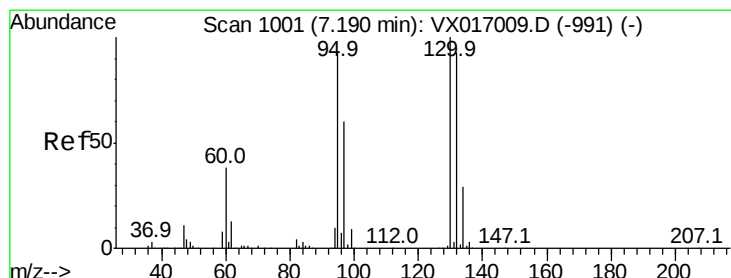
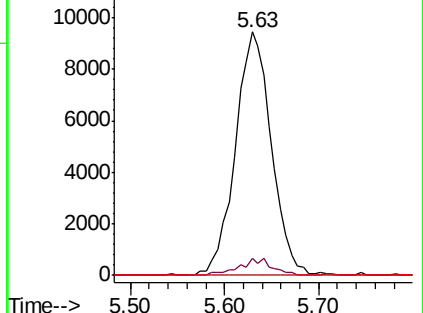
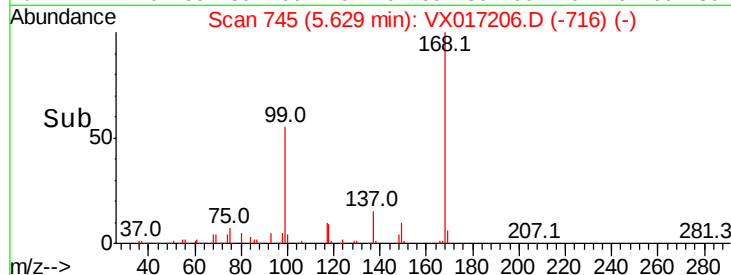
121 0.0 23.8 35.6#



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: 0.882 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017206.D

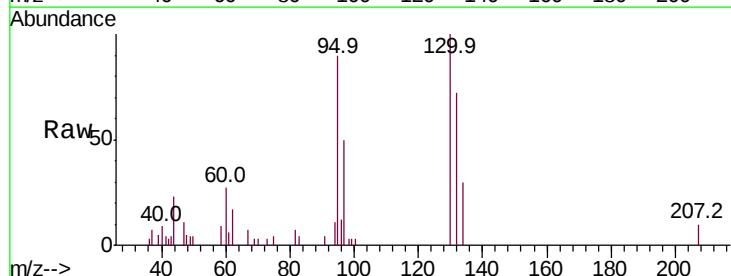
Acq: 07 Jul 2020 16:15

Tgt Ion:130 Resp: 3842

Ion Ratio Lower Upper

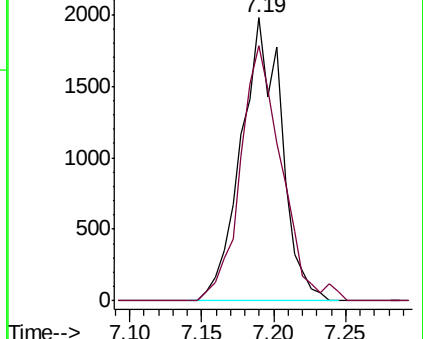
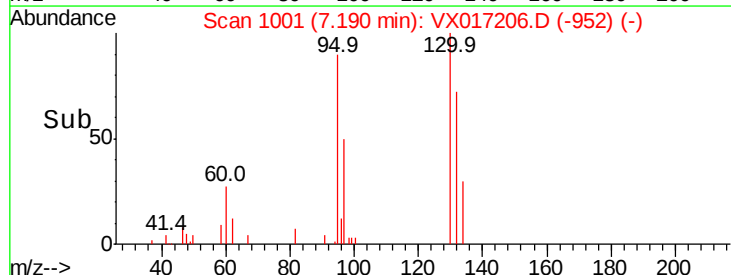
130 100

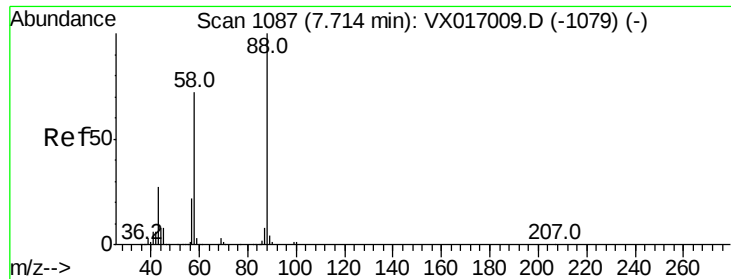
95 89.9 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 0.303 ug/l

RT: 7.69 min Scan# 1083

Delta R.T. -0.02 min

Lab File: VX017206.D

Acq: 07 Jul 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

40BR-20200629DL

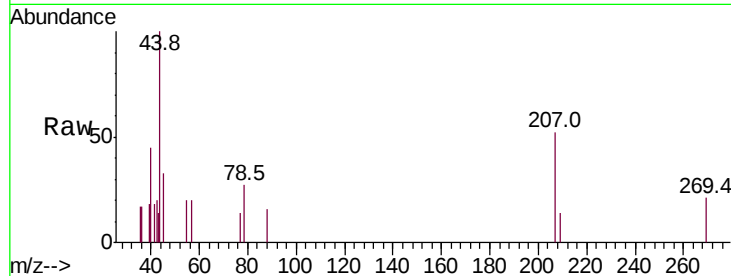
Tot Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 581.8 25.8 38.8#

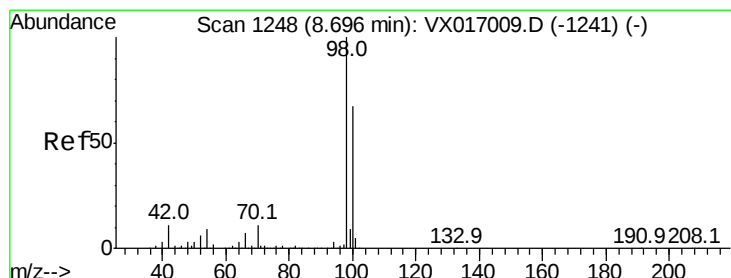
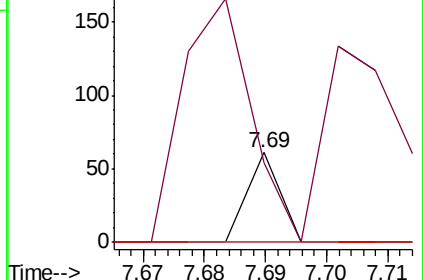
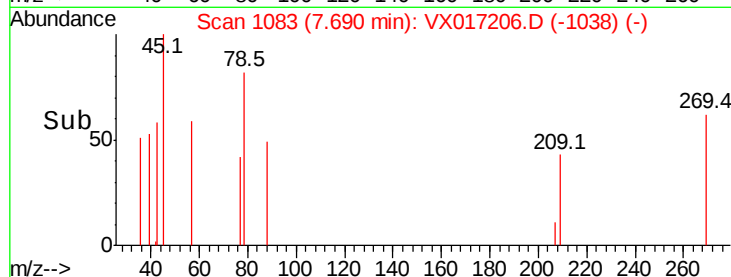
58 0.0 54.8 82.2#



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: 51.547 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017206.D

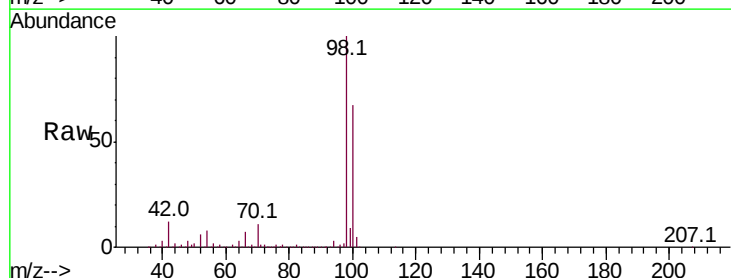
Acq: 07 Jul 2020 16:15

Tgt Ion: 98 Resp: 509757

Ion Ratio Lower Upper

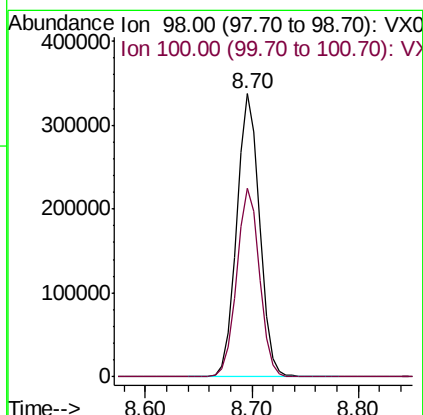
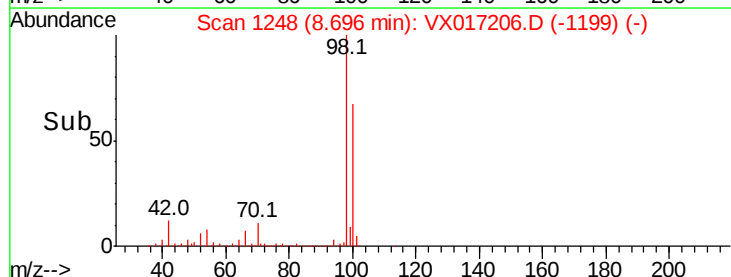
98 100

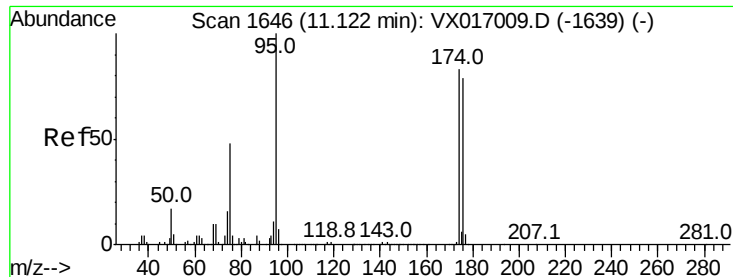
100 66.4 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 54.657 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017206.D

Acq: 07 Jul 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

40BR-20200629DL

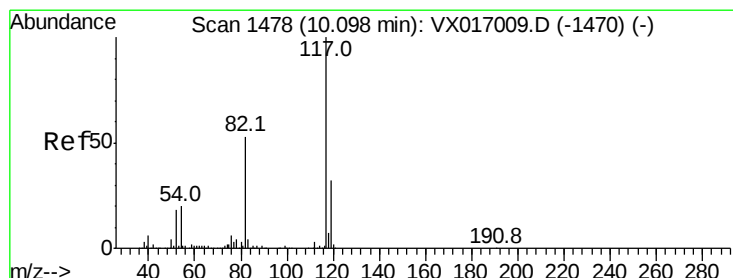
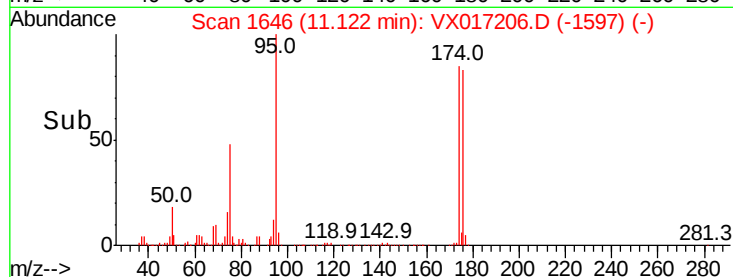
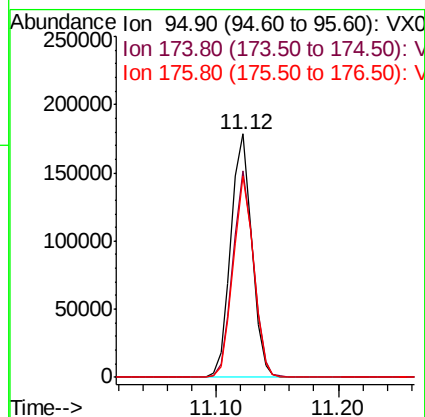
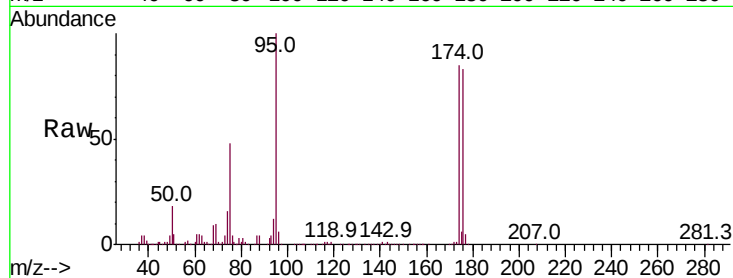
Tot Ion: 95 Resp: 211291

Ion Ratio Lower Upper

95 100

174 83.7 0.0 164.0

176 80.6 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: VX017206.D

Acq: 07 Jul 2020 16:15

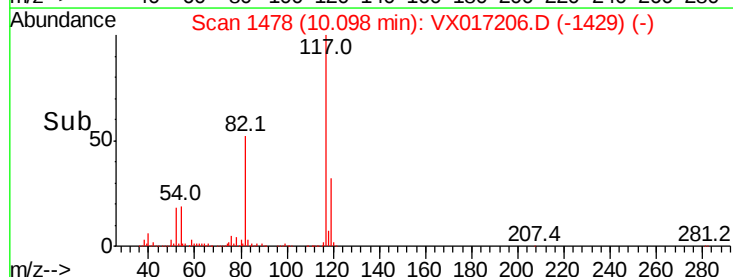
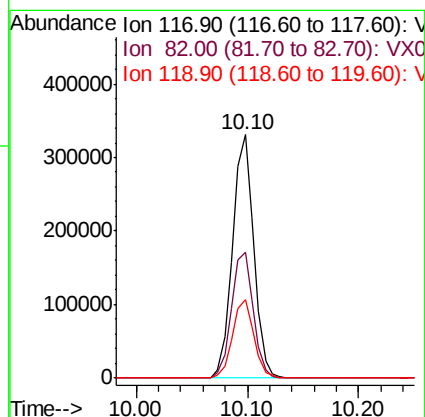
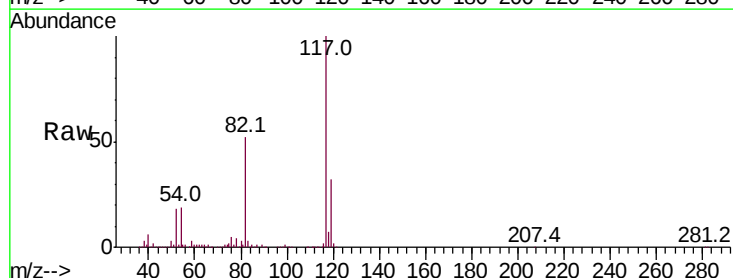
Tgt Ion: 117 Resp: 435537

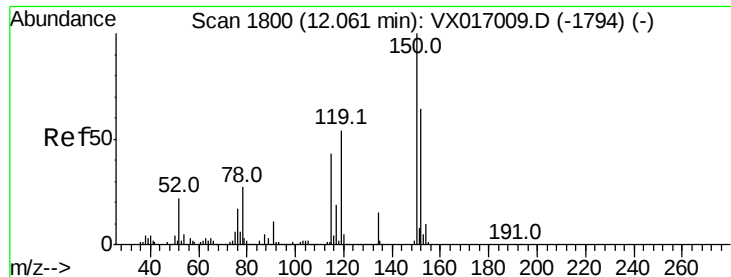
Ion Ratio Lower Upper

117 100

82 51.6 42.6 63.8

119 32.1 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: VX017206.D

Acq: 07 Jul 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

40BR-20200629DL

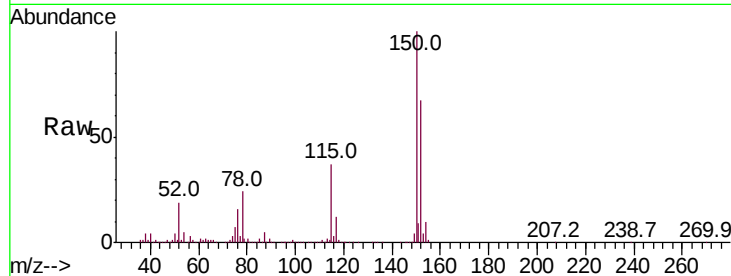
Tot Ion:152 Resp: 236477

Ion Ratio Lower Upper

152 100

115 57.2 40.9 122.7

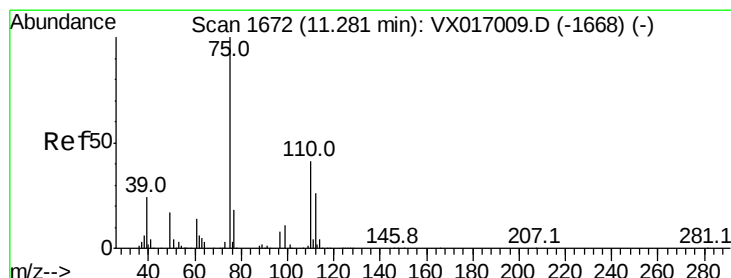
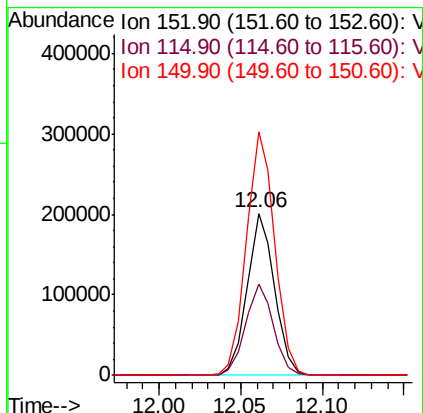
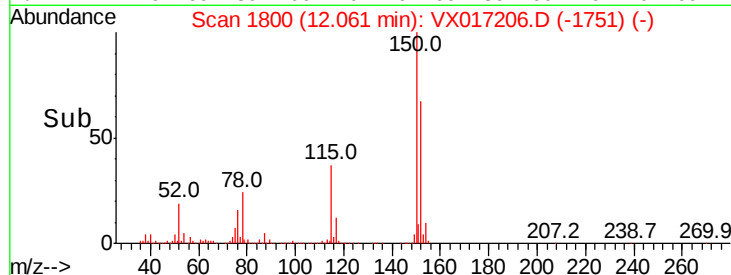
150 154.9 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.674 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017206.D

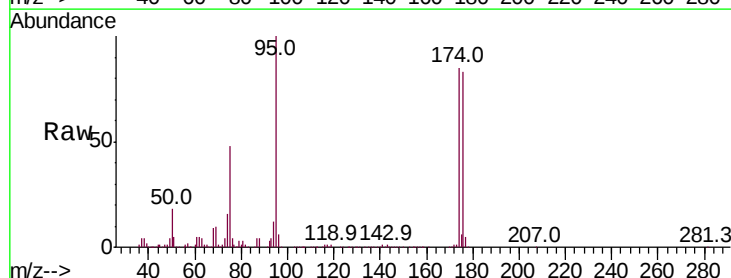
Acq: 07 Jul 2020 16:15

Tgt Ion: 75 Resp: 105438

Ion Ratio Lower Upper

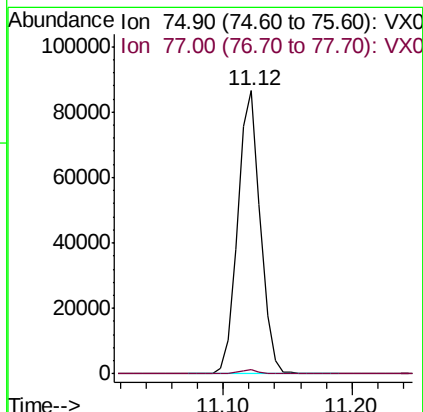
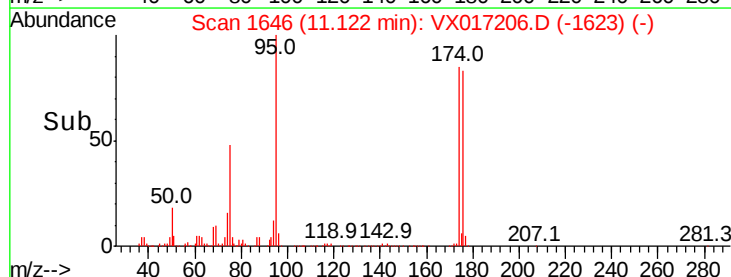
75 100

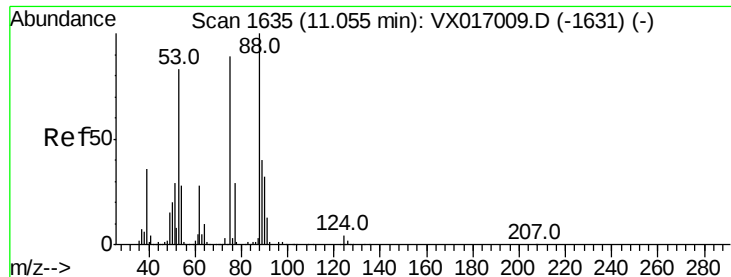
77 1.4 20.2 60.6#



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: 58.717 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX017206.D
Acq: 07 Jul 2020 16:15

Instrument :
MSVOA_X
ClientSampleId :
40BR-20200629DL

Tot Ion: 75 Resp: 105438
Ion Ratio Lower Upper
75 100
53 0.3 72.4 108.6#
89 0.0 37.0 55.4#

