

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071019\
 Data File : VX010791.D
 Acq On : 10 Jul 2019 20:40
 Operator : JC/SP
 Sample : K3626-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-02-070919-B

Quant Time: Jul 11 01:19:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	223427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	352383	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	336707	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	155967	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	113975	54.41	ug/l	0.00
Spiked Amount			Recovery	=	108.82%	
35) Dibromofluoromethane	5.50	113	107110	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
50) Toluene-d8	8.71	98	430592	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
62) 4-Bromofluorobenzene	11.13	95	145214	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	

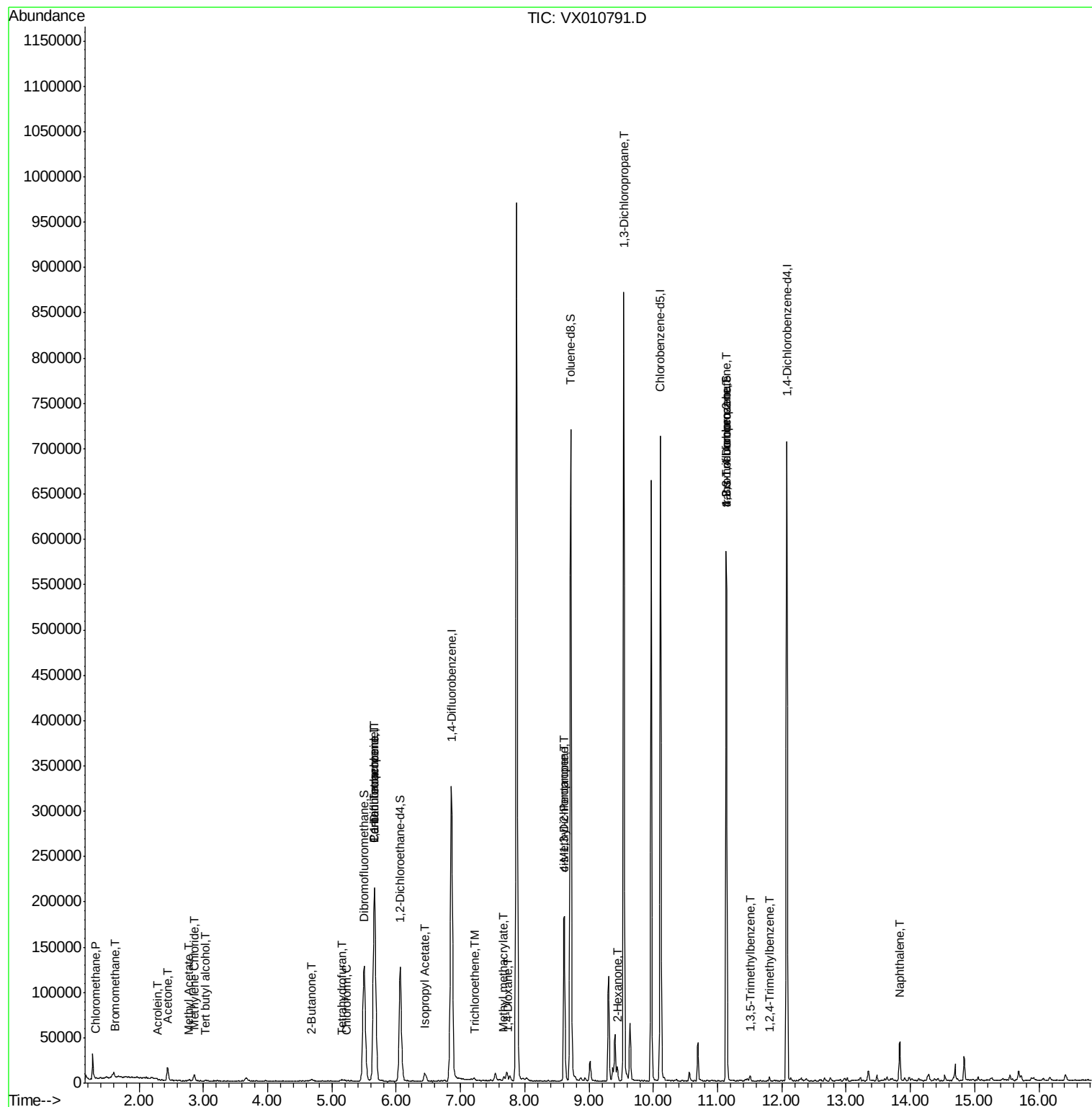
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	396	0.219	ug/l #	12
5) Bromomethane	1.64	94	476	0.493	ug/l #	50
11) Tert butyl alcohol	3.04	59	1201	2.191	ug/l #	91
13) Acrolein	2.29	56	222	0.611	ug/l #	75
16) Acetone	2.44	43	15635	14.892	ug/l	94
18) Methyl Acetate	2.78	43	2452	1.172	ug/l #	88
20) Methylene Chloride	2.86	84	3335	1.544	ug/l	94
25) 2-Butanone	4.68	43	3912	2.540	ug/l #	80
29) Tetrahydrofuran	5.15	42	2232	2.340	ug/l #	67
30) Chloroform	5.21	83	1333	0.373	ug/l #	79
36) 1,1-Dichloropropene	5.66	75	14786	5.280	ug/l #	47
38) Carbon Tetrachloride	5.67	117	20322	6.702	ug/l #	14
43) Isopropyl Acetate	6.45	43	12194	2.558	ug/l	97
44) Trichloroethene	7.22	130	781	0.299	ug/l	65
48) Methyl methacrylate	7.68	41	6412	2.894	ug/l #	9
49) 1,4-Dioxane	7.74	88	60	0.940	ug/l #	28
51) 4-Methyl-2-Pentanone	8.61	43	58642	19.238	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	30584	8.666	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	7764	2.111	ug/l #	45
59) 2-Hexanone	9.44	43	8969	3.739	ug/l #	22
76) 1,2,3-Trichloropropane	11.13	75	70698	24.875	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	2141	0.246	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.13	75	70698	58.031	ug/l #	16
84) 1,2,4-Trimethylbenzene	11.80	105	1994	0.228	ug/l	94
95) Naphthalene	13.83	128	27240	2.496	ug/l	99

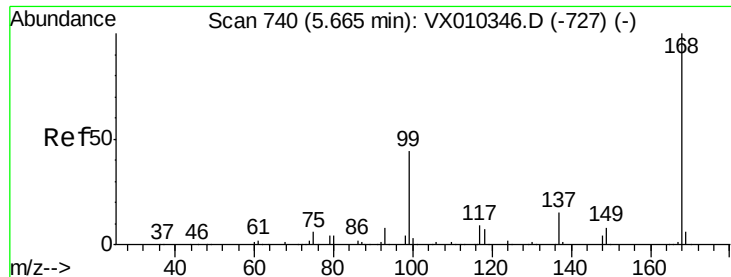
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 11 01:19:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

Instrument :

MSVOA_X

ClientSampleId :

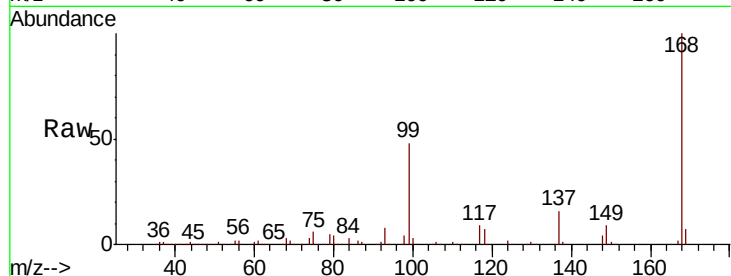
SU-02-070919-B

Tot Ion:168 Resp: 223427

Ion Ratio Lower Upper

168 100

99 48.3 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

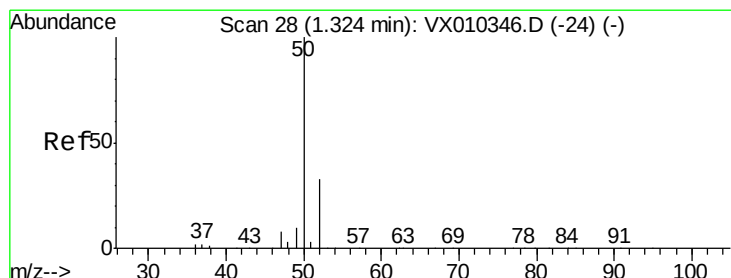
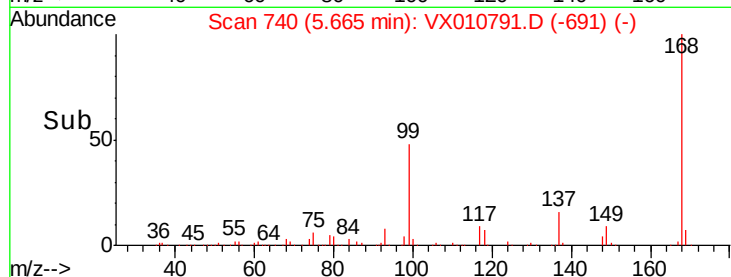
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.219 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010791.D

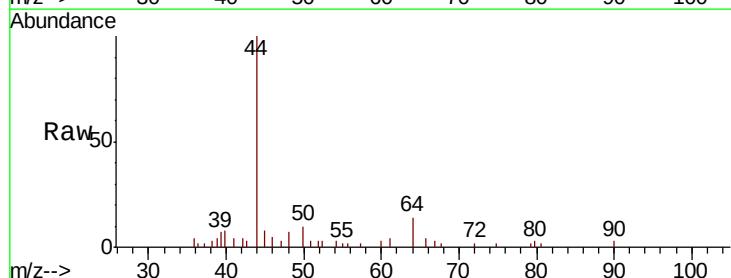
Acq: 10 Jul 2019 20:40

Tgt Ion: 50 Resp: 396

Ion Ratio Lower Upper

50 100

52 83.1 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

300

250

200

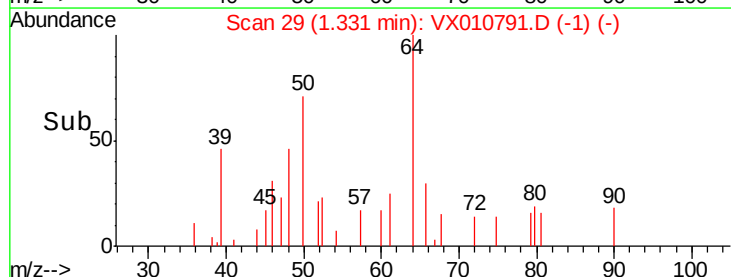
150

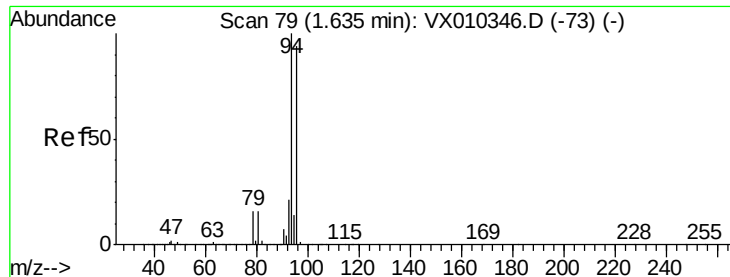
100

50

0

Time--> 1.30 1.32 1.34 1.36 1.38





#5

Bromomethane

Concen: 0.493 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

Instrument :

MSVOA_X

ClientSampleId :

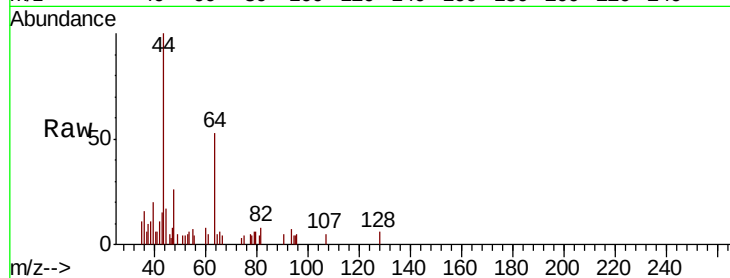
SU-02-070919-B

Tot Ion: 94 Resp: 476

Ion Ratio Lower Upper

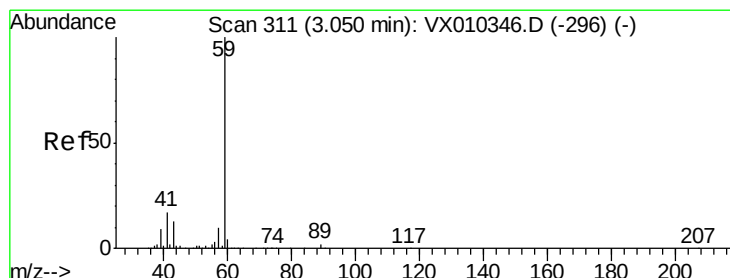
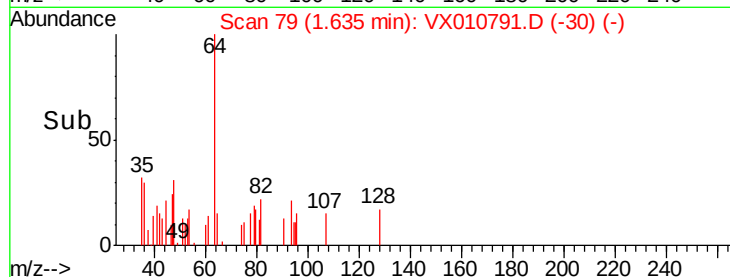
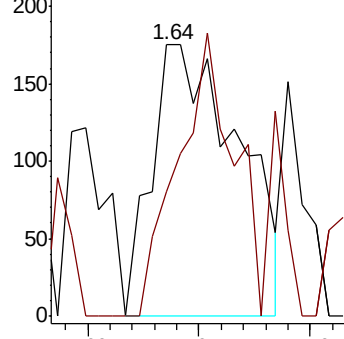
94 100

96 45.7 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 2.191 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX010791.D

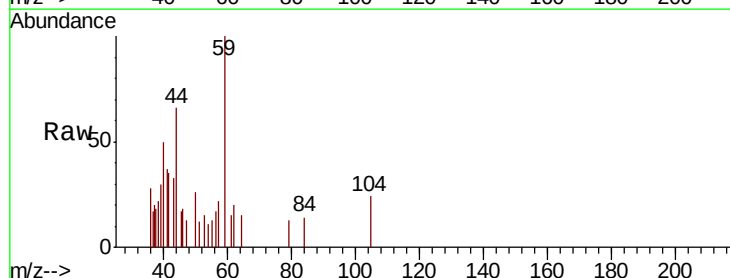
Acq: 10 Jul 2019 20:40

Tgt Ion: 59 Resp: 1201

Ion Ratio Lower Upper

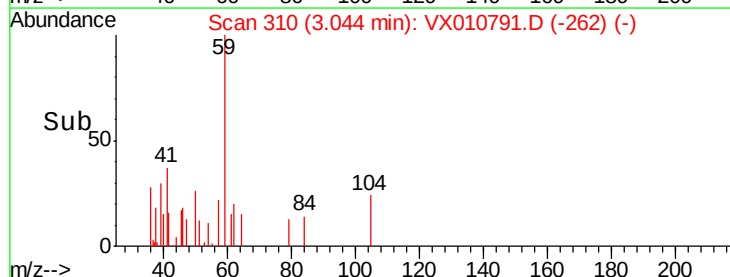
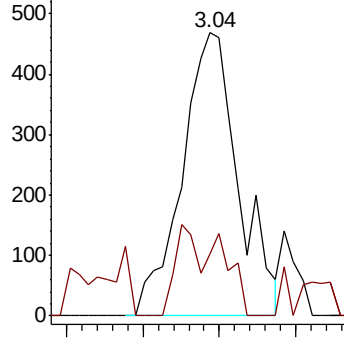
59 100

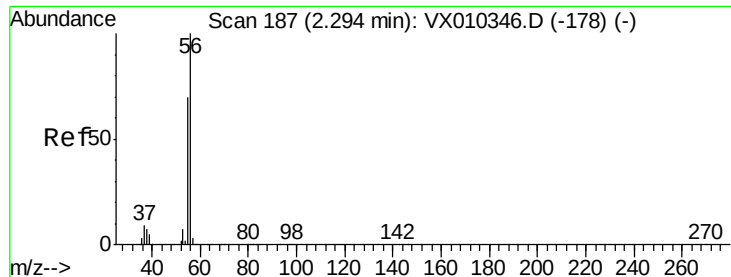
57 13.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.611 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

Instrument :

MSVOA_X

ClientSampleId :

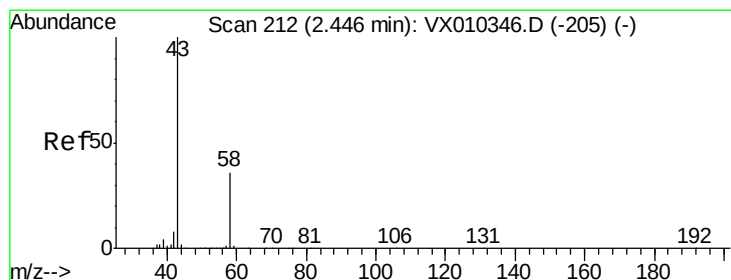
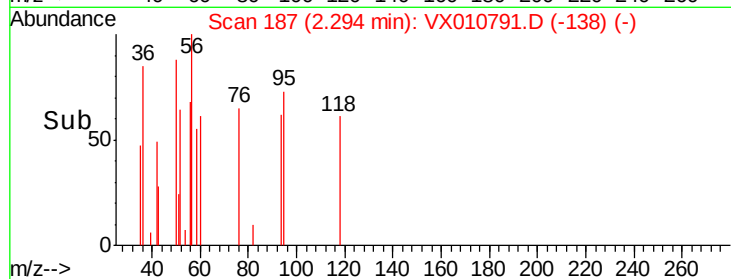
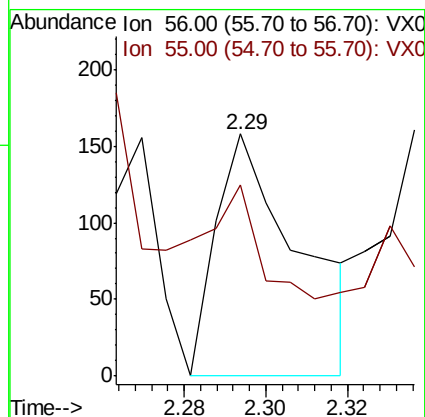
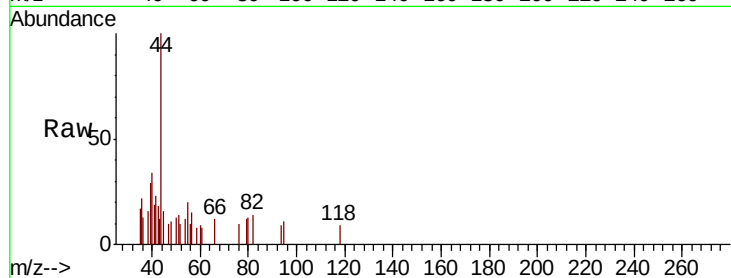
SU-02-070919-B

Tot Ion: 56 Resp: 222

Ion Ratio Lower Upper

56 100

55 50.0 56.9 85.3#



#16

Acetone

Concen: 14.892 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010791.D

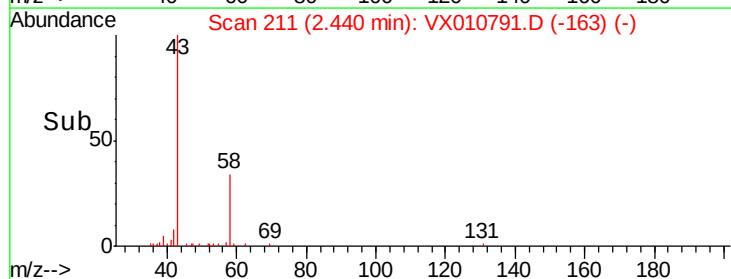
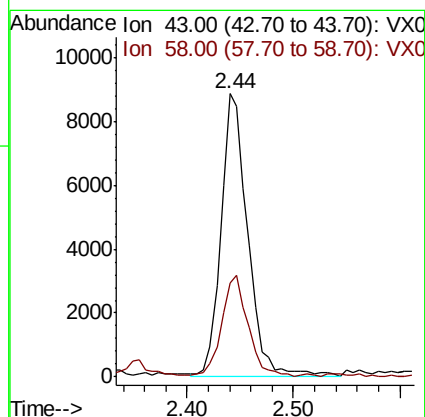
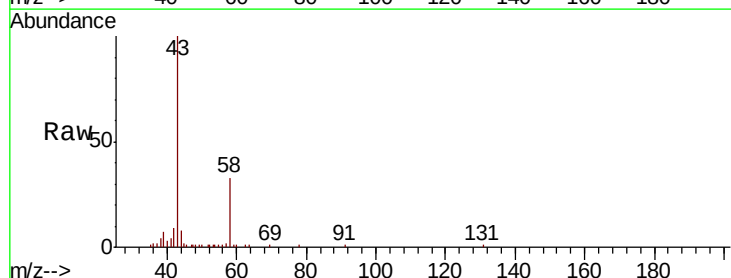
Acq: 10 Jul 2019 20:40

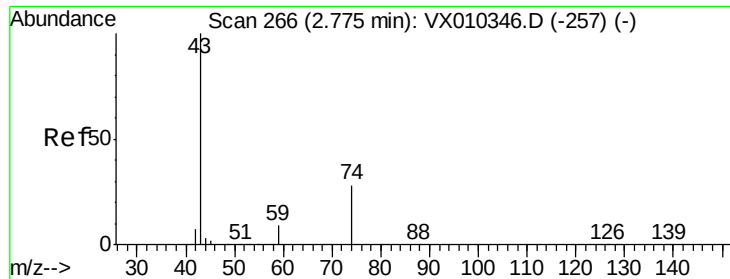
Tgt Ion: 43 Resp: 15635

Ion Ratio Lower Upper

43 100

58 32.5 28.9 43.3

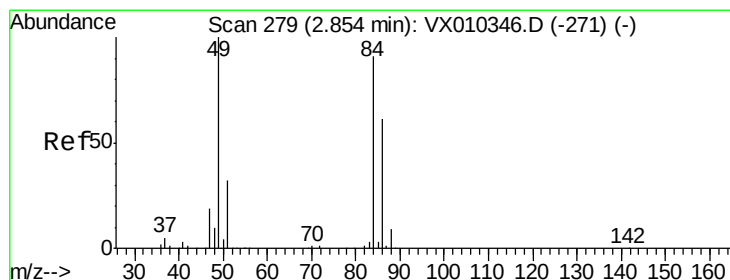
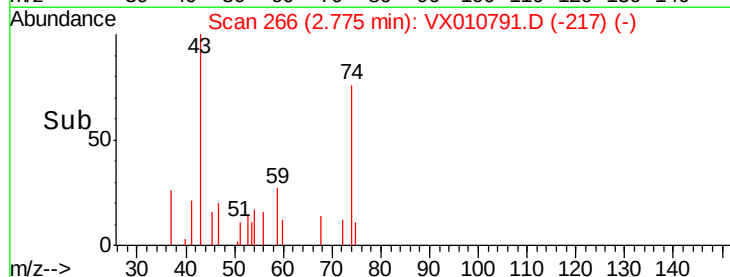
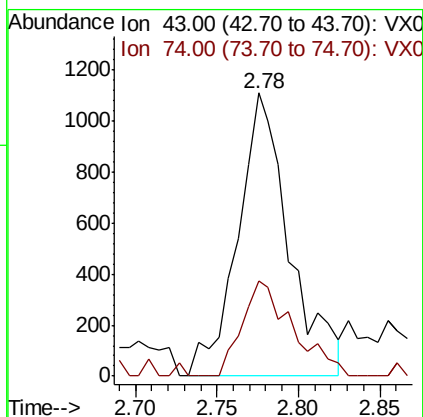
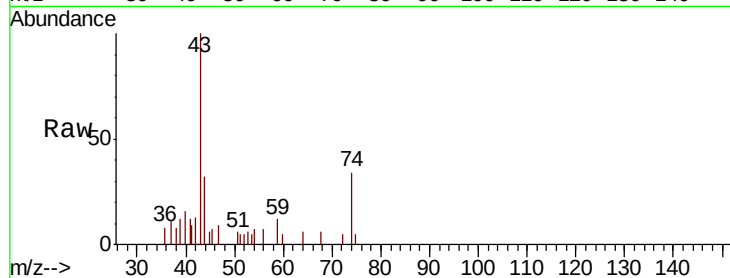




#18
Methvl Acetate
Concen: 1.172 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX010791.D
Acq: 10 Jul 2019 20:40

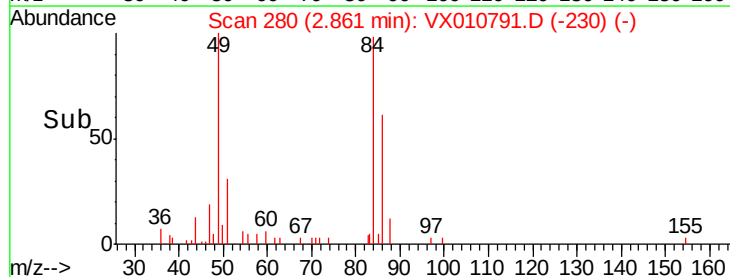
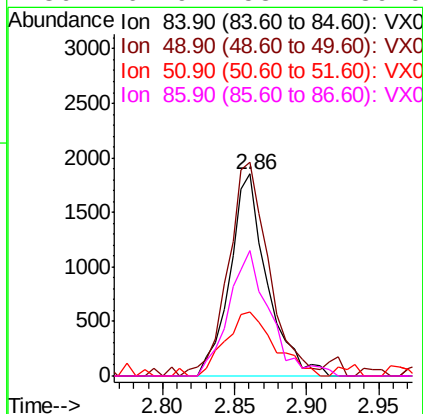
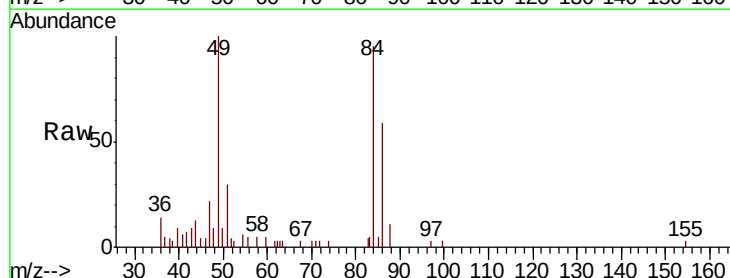
Instrument :
MSVOA_X
ClientSampleId :
SU-02-070919-B

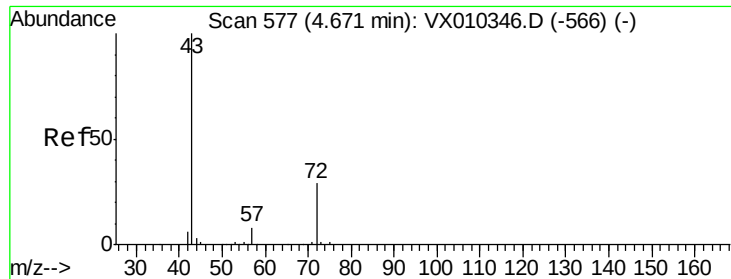
Tot Ion: 43 Resp: 2452
Ion Ratio Lower Upper
43 100
74 32.9 21.3 31.9#



#20
Methylene Chloride
Concen: 1.544 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010791.D
Acq: 10 Jul 2019 20:40

Tgt Ion: 84 Resp: 3335
Ion Ratio Lower Upper
84 100
49 102.7 87.5 131.3
51 31.4 27.7 41.5
86 61.9 53.4 80.0





#25

2-Butanone

Concen: 2.540 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

Instrument :

MSVOA_X

ClientSampleId :

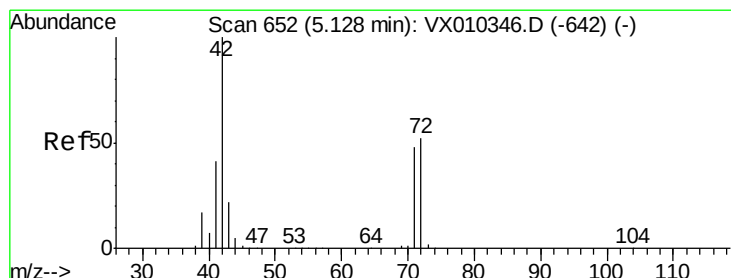
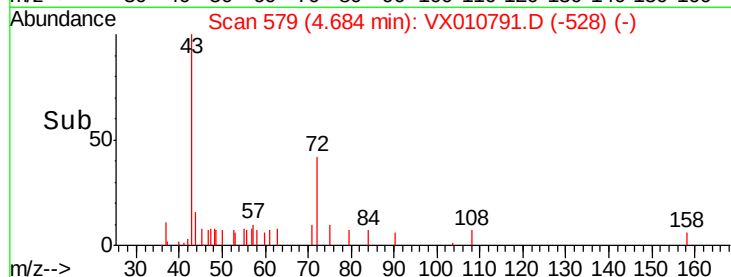
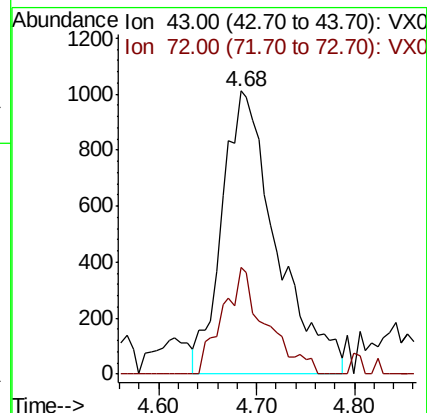
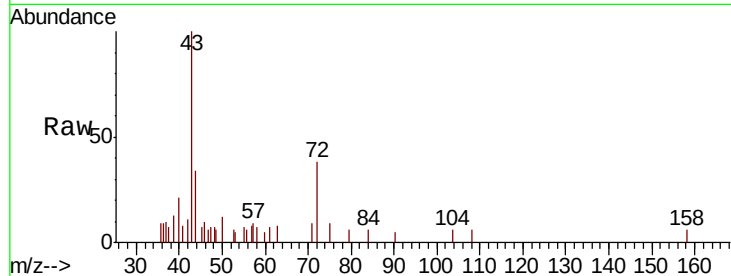
SU-02-070919-B

Tot Ion: 43 Resp: 3912

Ion Ratio Lower Upper

43 100

72 39.9 23.3 34.9#



#29

Tetrahydrofuran

Concen: 2.340 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

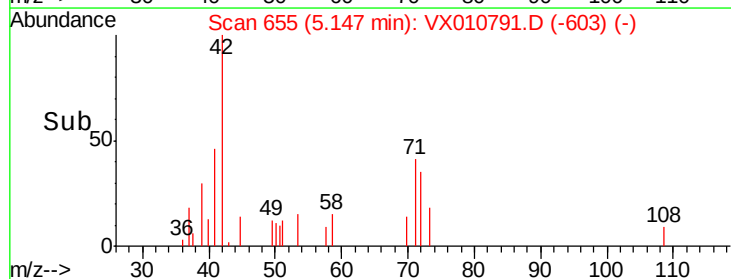
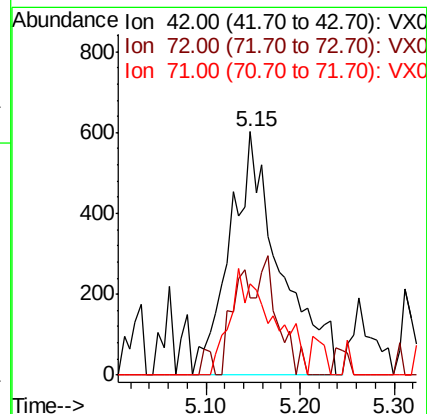
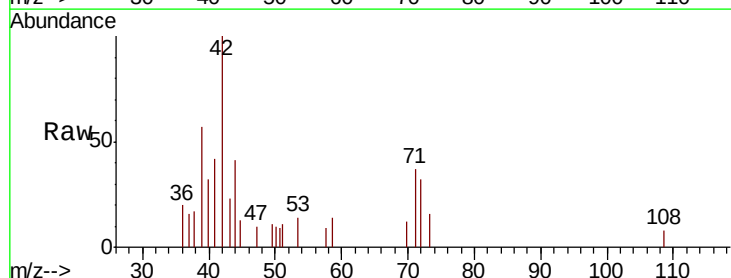
Tgt Ion: 42 Resp: 2232

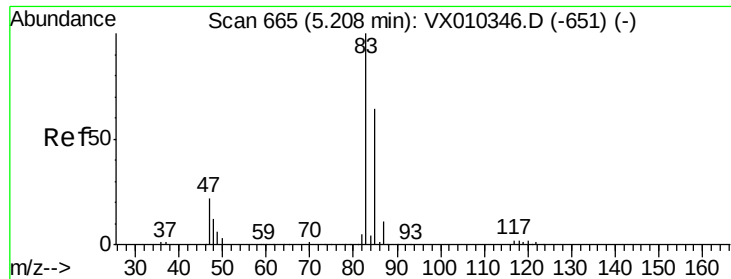
Ion Ratio Lower Upper

42 100

72 16.4 40.6 60.8#

71 37.3 37.8 56.8#

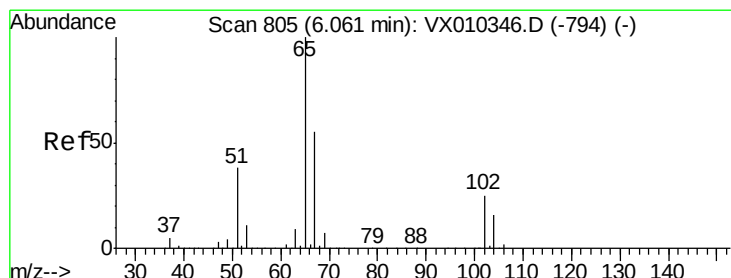
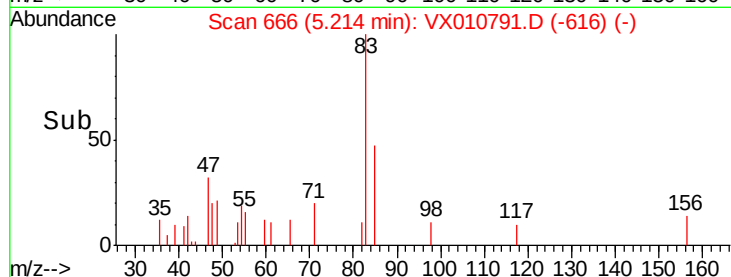
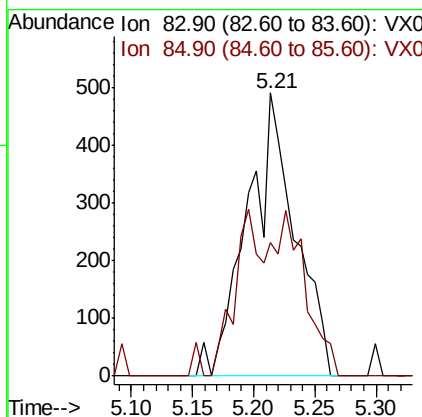
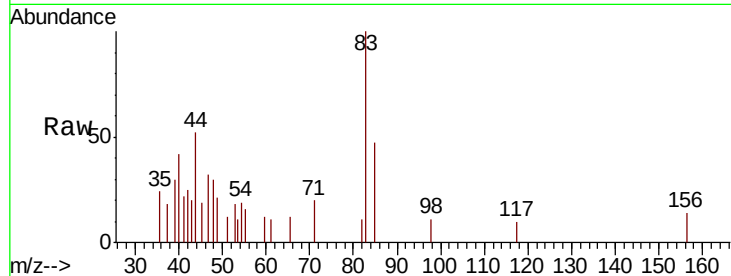




#30
 Chloroform
 Concen: 0.373 ug/l
 RT: 5.21 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VX010791.D
 Acq: 10 Jul 2019 20:40

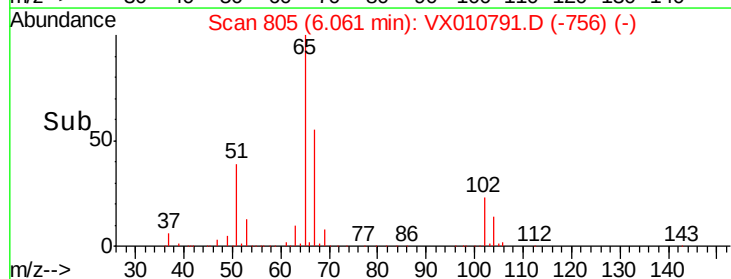
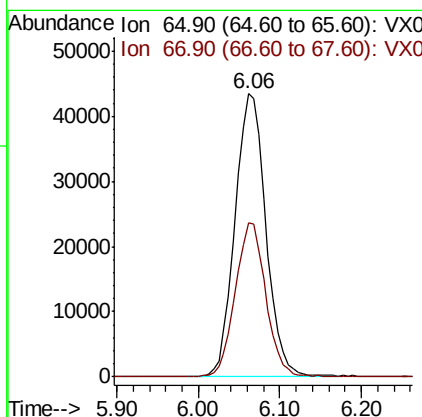
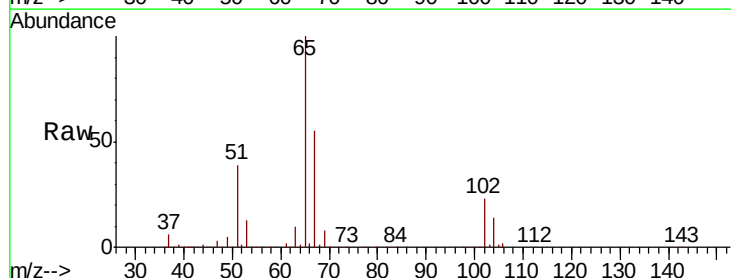
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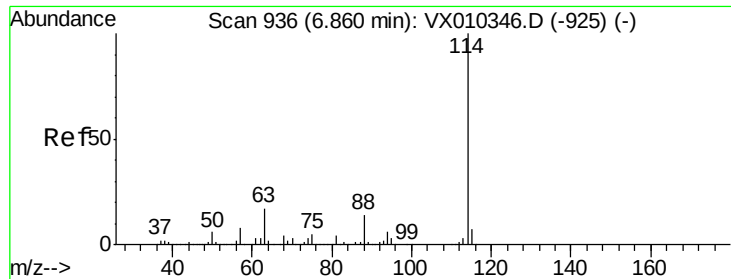
Tot Ion: 83 Resp: 1333
 Ion Ratio Lower Upper
 83 100
 85 47.0 50.9 76.3#



#33
 1,2-Dichloroethane-d4
 Concen: 54.407 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010791.D
 Acq: 10 Jul 2019 20:40

Tgt Ion: 65 Resp: 113975
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

Instrument :

MSVOA_X

ClientSampleId :

SU-02-070919-B

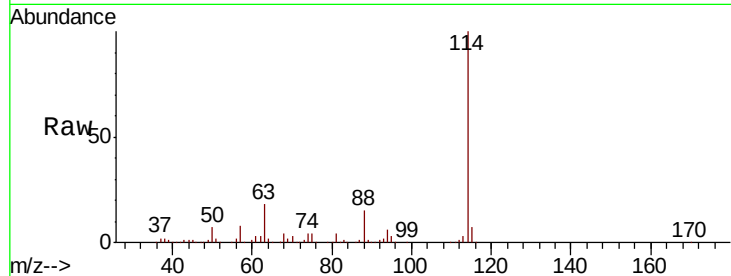
Tot Ion:114 Resp: 352383

Ion Ratio Lower Upper

114 100

63 17.7 0.0 33.8

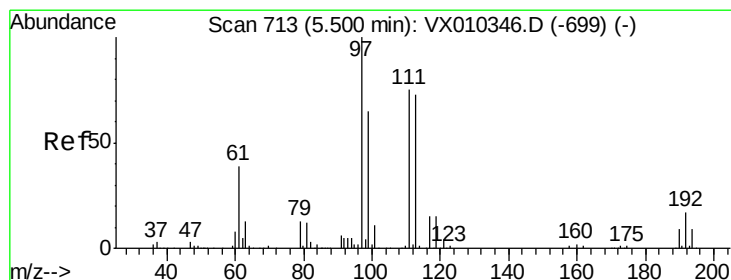
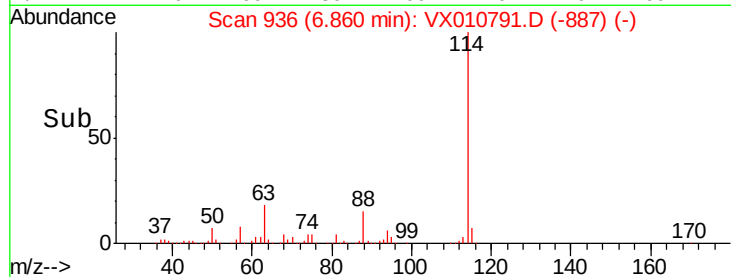
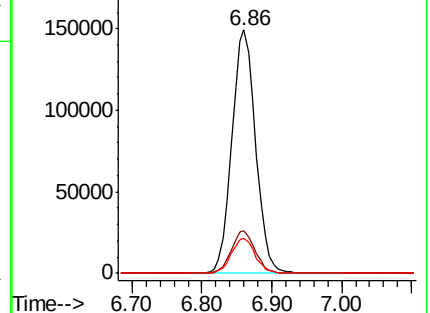
88 14.6 0.0 27.6



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: 49.680 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

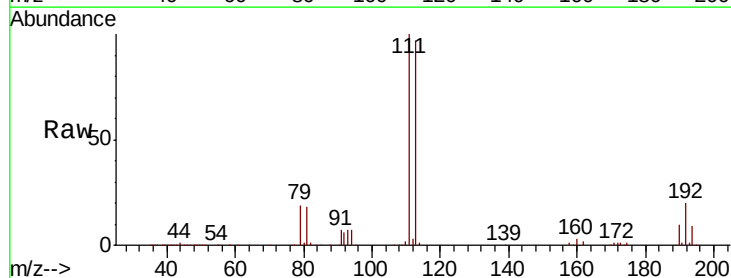
Tgt Ion:113 Resp: 107110

Ion Ratio Lower Upper

113 100

111 102.6 81.2 121.8

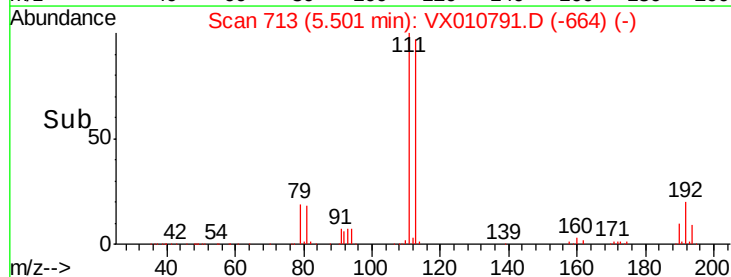
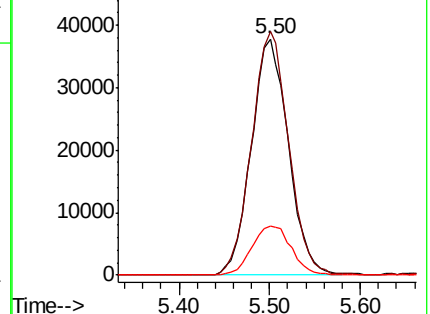
192 22.1 18.6 27.8

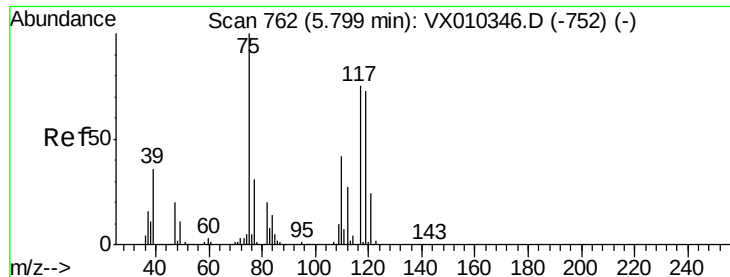


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

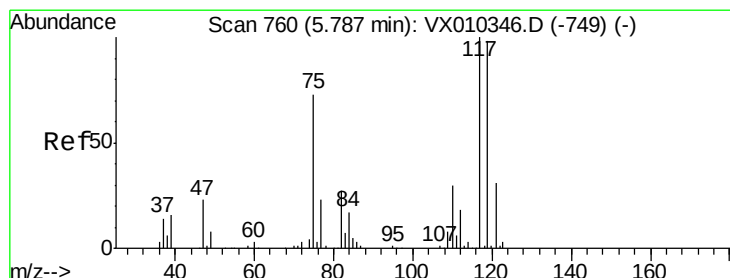
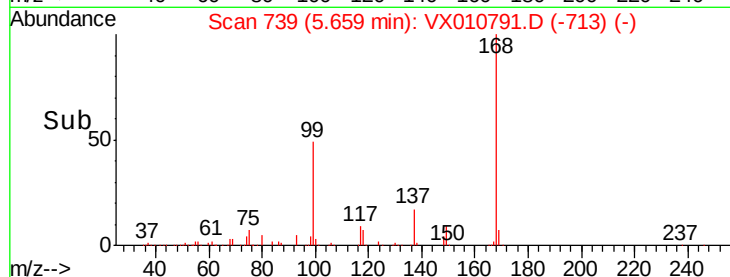
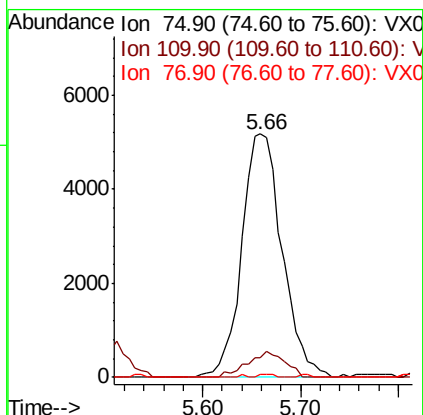
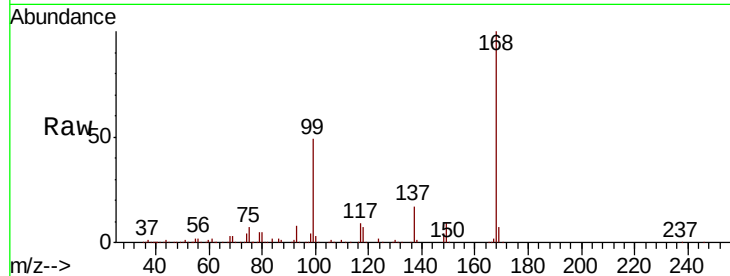




#36
 1,1-Dichloropropene
 Concen: 5.280 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010791.D
 Acq: 10 Jul 2019 20:40

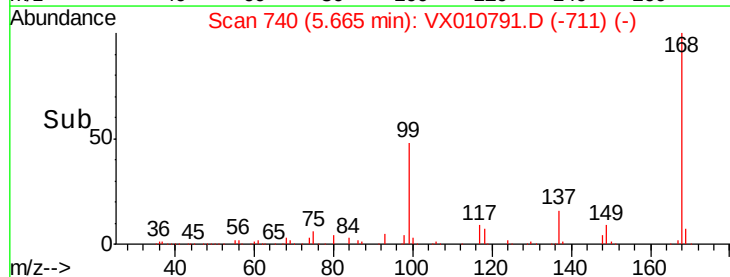
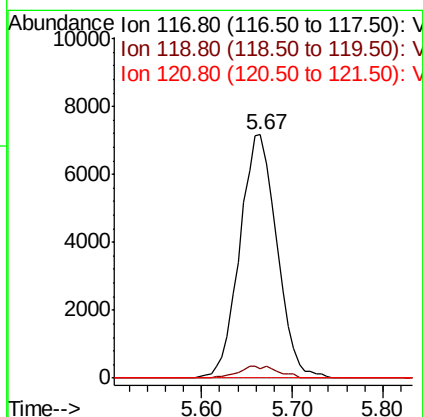
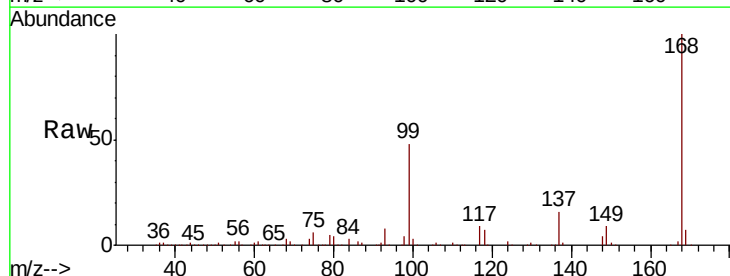
Instrument :
 MSVOA_X
 ClientSampleId :
 SU-02-070919-B

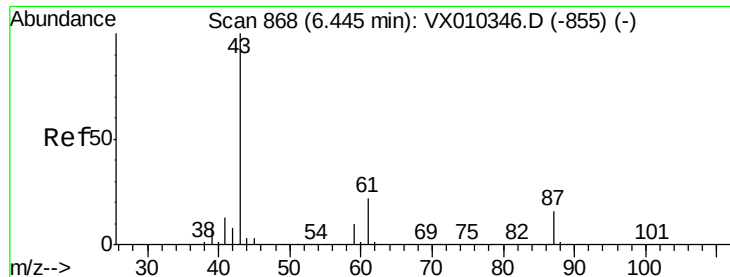
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	20.8	62.2#
77	0.4	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.702 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX010791.D
 Acq: 10 Jul 2019 20:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.0	78.2	117.4#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 2.558 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.00 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

Instrument :

MSVOA_X

ClientSampleId :

SU-02-070919-B

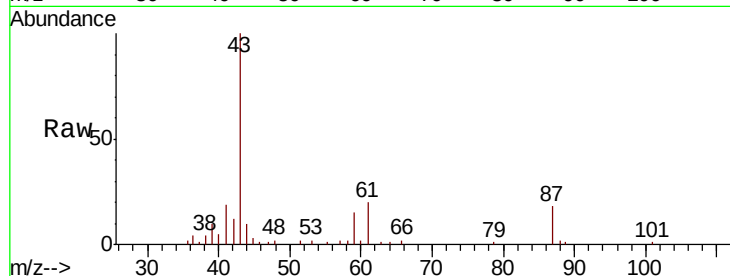
Tot Ion: 43 Resp: 12194

Ion Ratio Lower Upper

43 100

61 22.7 17.8 26.6

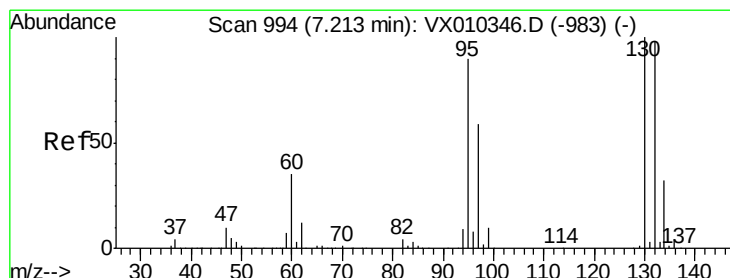
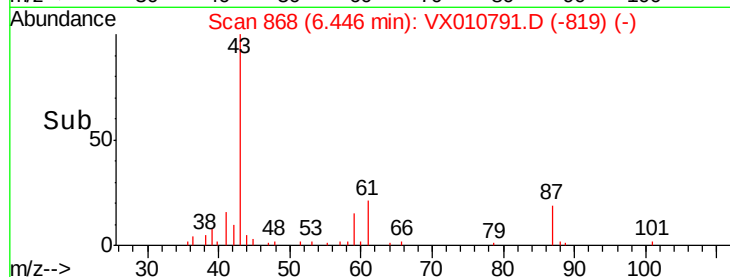
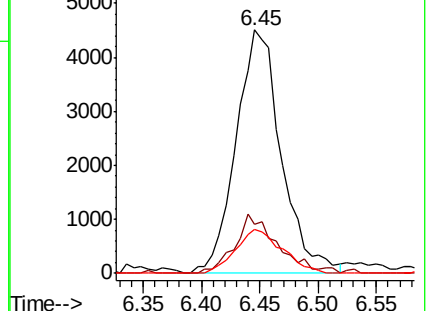
87 18.5 13.0 19.4



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: 0.299 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX010791.D

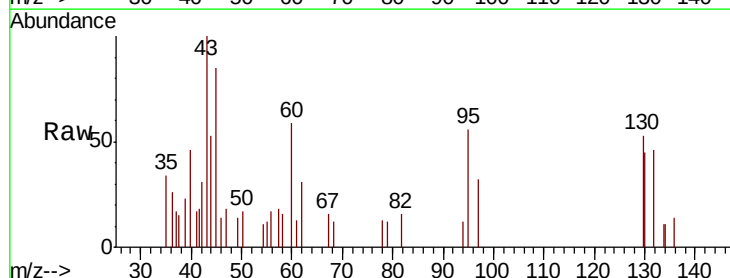
Acq: 10 Jul 2019 20:40

Tgt Ion:130 Resp: 781

Ion Ratio Lower Upper

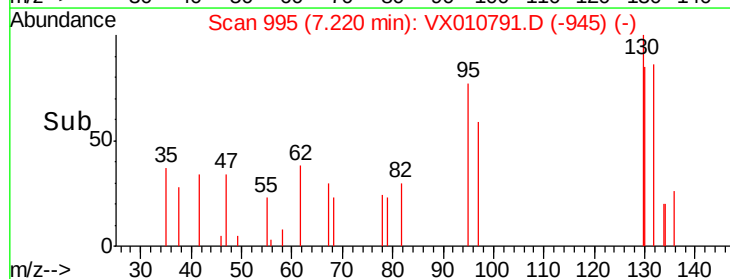
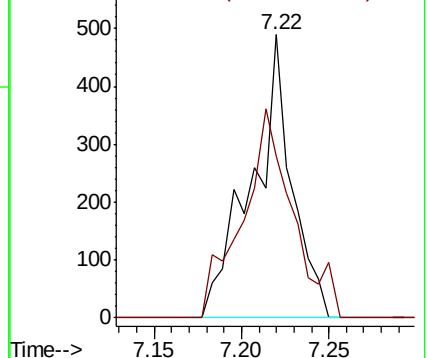
130 100

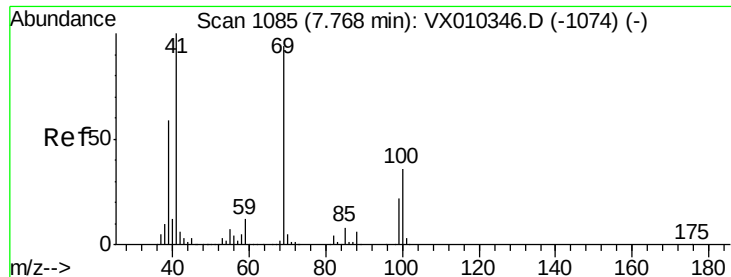
95 57.3 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

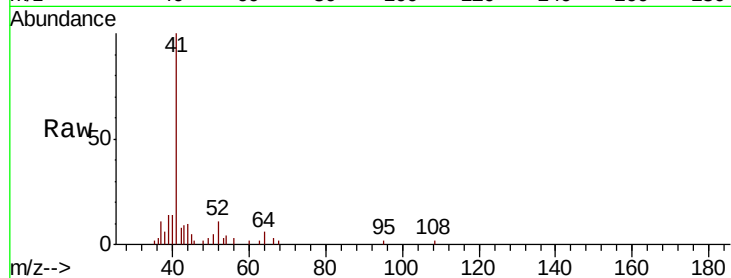




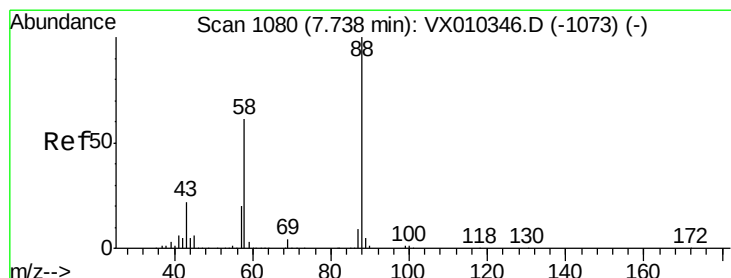
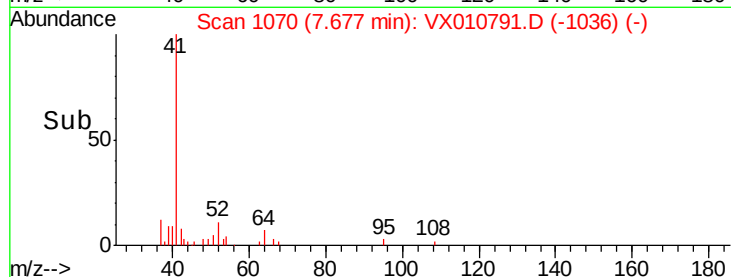
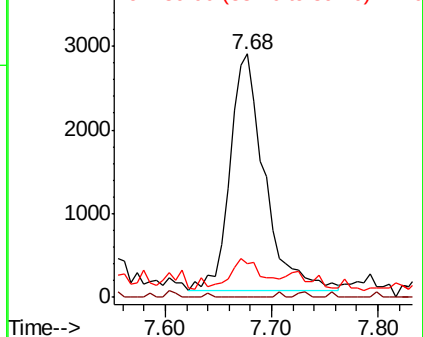
#48
Methvl methacrylate
Concen: 2.894 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX010791.D
Acq: 10 Jul 2019 20:40

Instrument :
MSVOA_X
ClientSampleId :
SU-02-070919-B

Tot Ion: 41 Resp: 6412
Ion Ratio Lower Upper
41 100
69 0.0 76.1 114.1#
39 0.0 47.6 71.4#

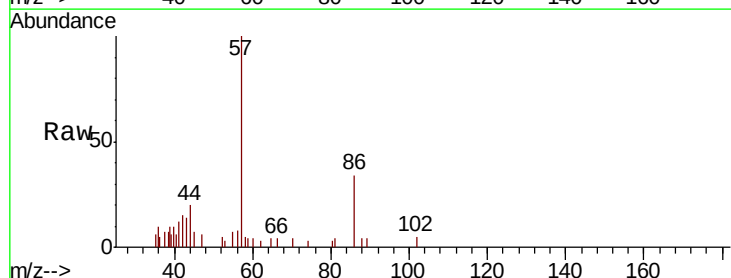


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

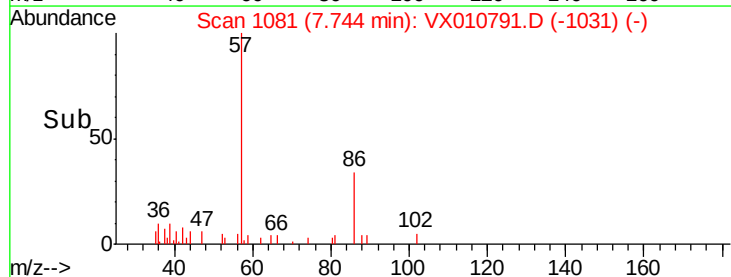
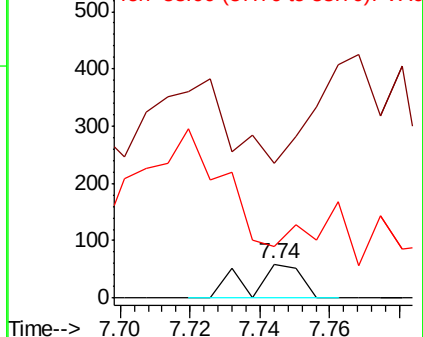


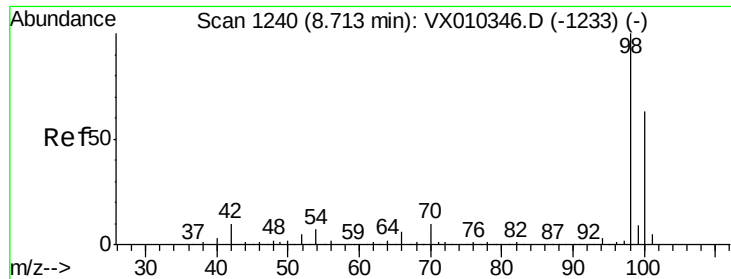
#49
1,4-Dioxane
Concen: 0.940 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX010791.D
Acq: 10 Jul 2019 20:40

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 0.0 49.5 74.3#



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

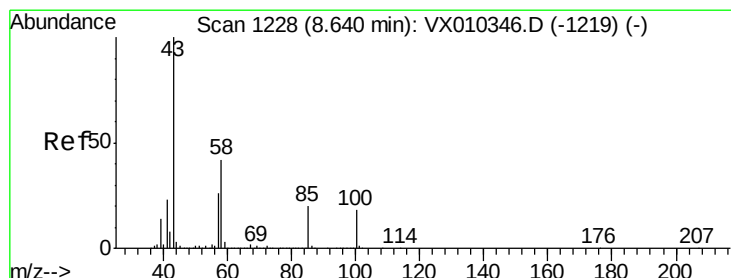
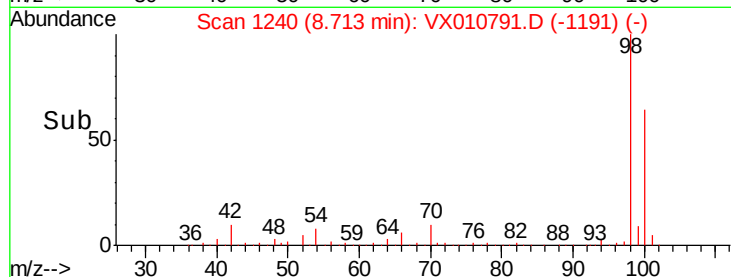
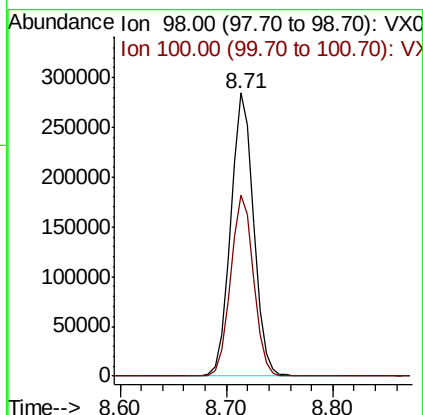
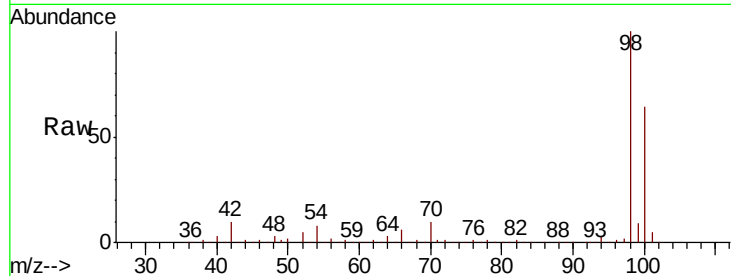




#50
Toluene-d8
Concen: 52.203 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010791.D
Acq: 10 Jul 2019 20:40

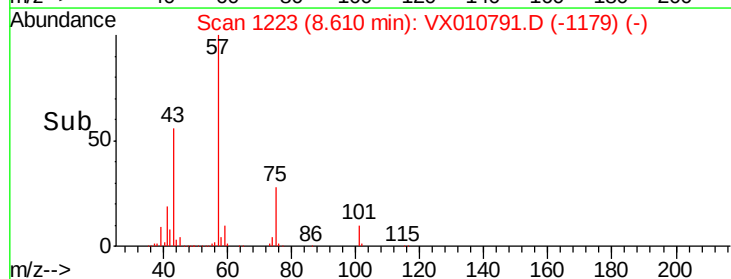
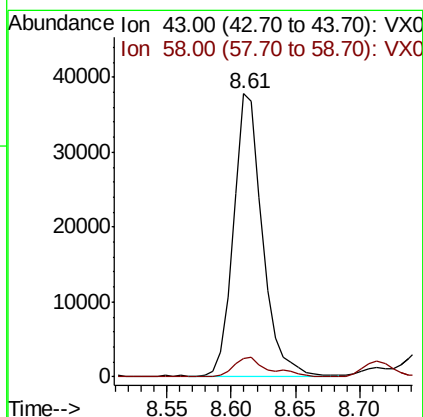
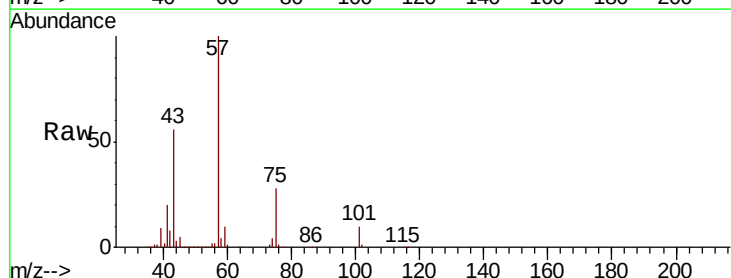
Instrument :
MSVOA_X
ClientSampleId :
SU-02-070919-B

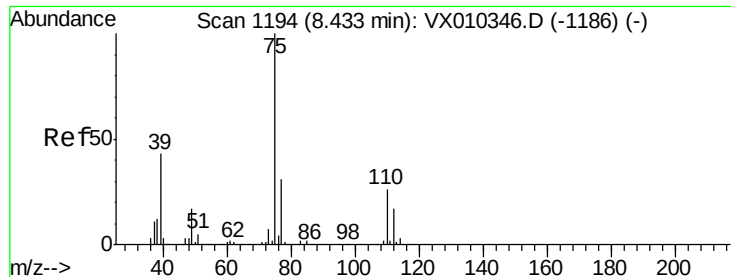
Tot Ion: 98 Resp: 430592
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 19.238 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX010791.D
Acq: 10 Jul 2019 20:40

Tgt Ion: 43 Resp: 58642
Ion Ratio Lower Upper
43 100
58 8.7 33.5 50.3#





#54

cis-1,3-Dichloropropene

Concen: 8.666 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

Instrument :

MSVOA_X

ClientSampleId :

SU-02-070919-B

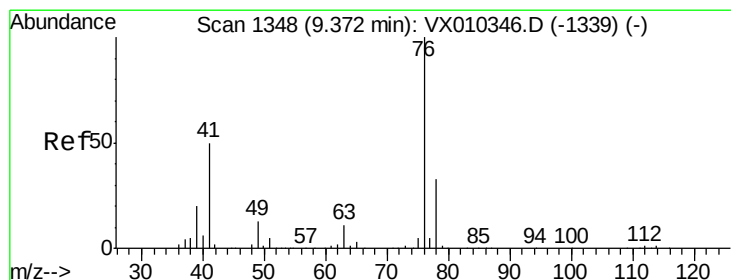
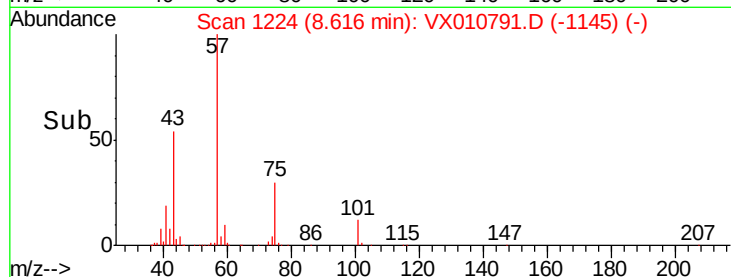
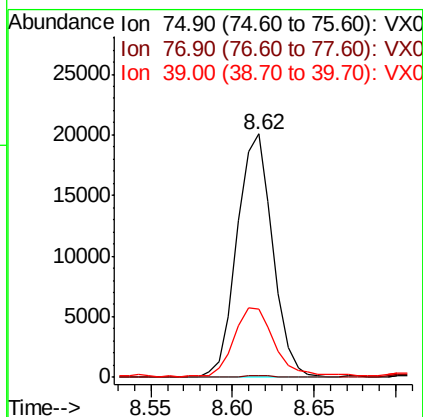
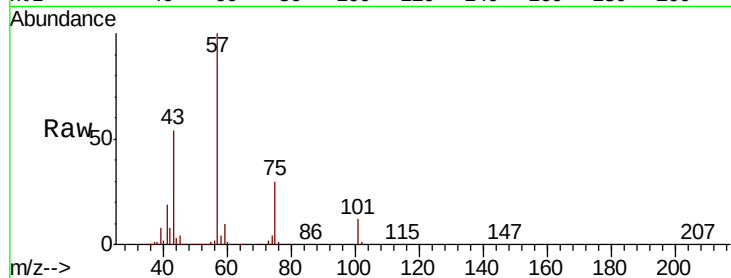
Tot Ion: 75 Resp: 30584

Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

39 27.2 34.5 51.7#



#57

1,3-Dichloropropane

Concen: 2.111 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX010791.D

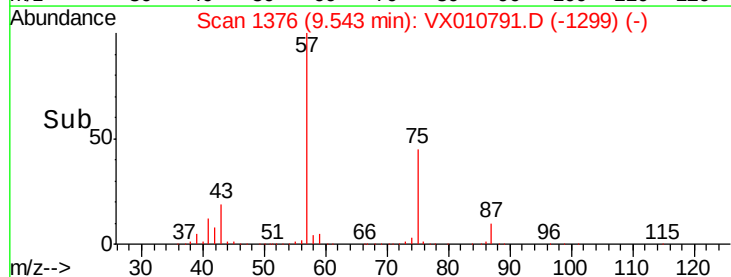
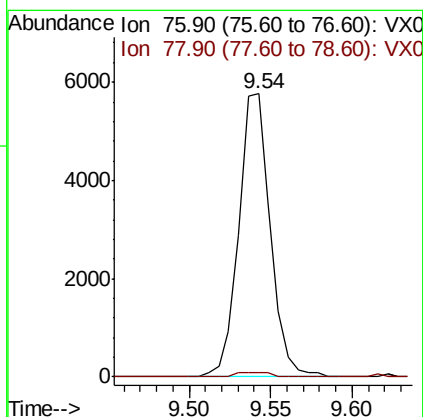
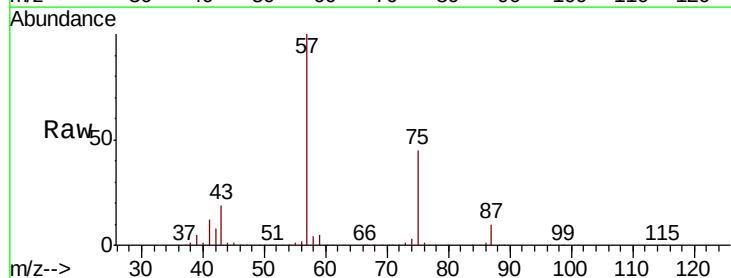
Acq: 10 Jul 2019 20:40

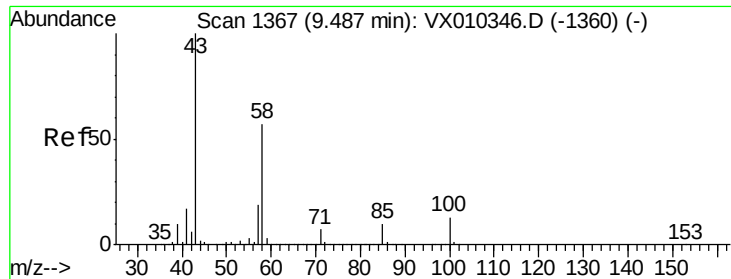
Tgt Ion: 76 Resp: 7764

Ion Ratio Lower Upper

76 100

78 1.6 26.1 39.1#





#59

2-Hexanone

Concen: 3.739 ug/l

RT: 9.44 min Scan# 1359

Delta R.T. -0.05 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

Instrument :

MSVOA_X

ClientSampleId :

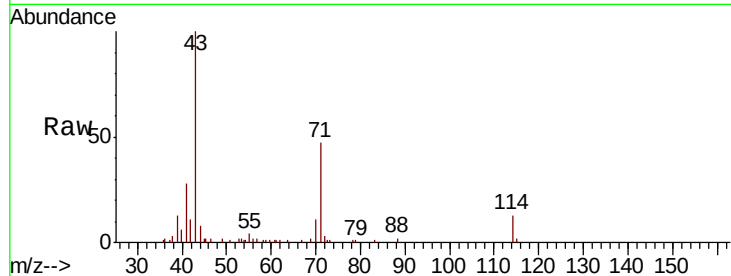
SU-02-070919-B

Tot Ion: 43 Resp: 8969

Ion Ratio Lower Upper

43 100

58 0.0 29.0 87.1#

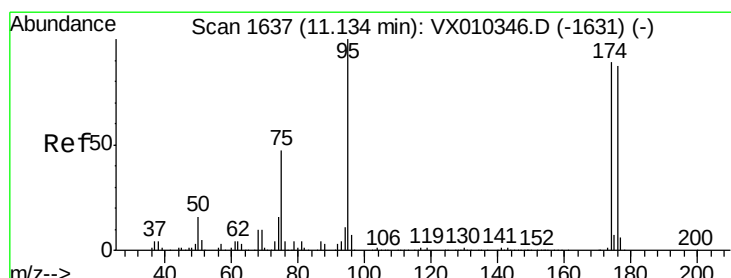
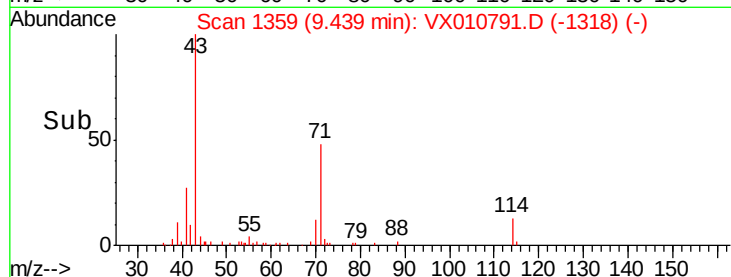


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.44

Time-->



#62

4-Bromofluorobenzene

Concen: 48.763 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

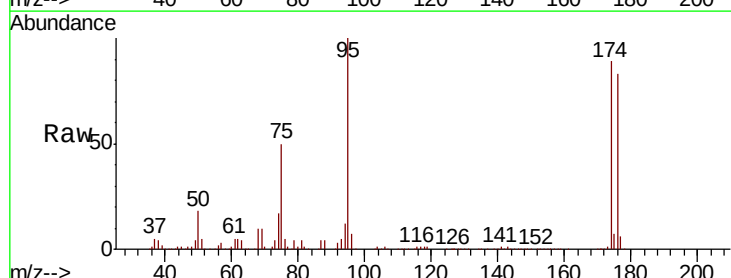
Tgt Ion: 95 Resp: 145214

Ion Ratio Lower Upper

95 100

174 95.3 0.0 187.6

176 90.2 0.0 184.0



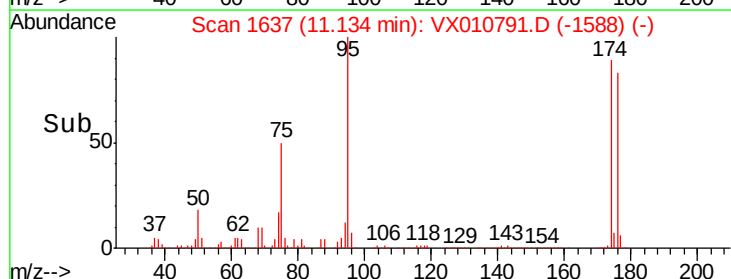
Abundance Ion 94.90 (94.60 to 95.60): VX0

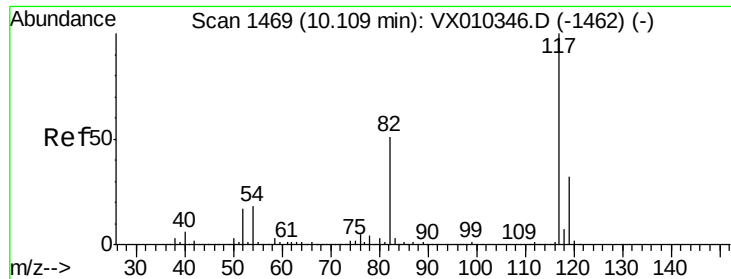
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

Time-->

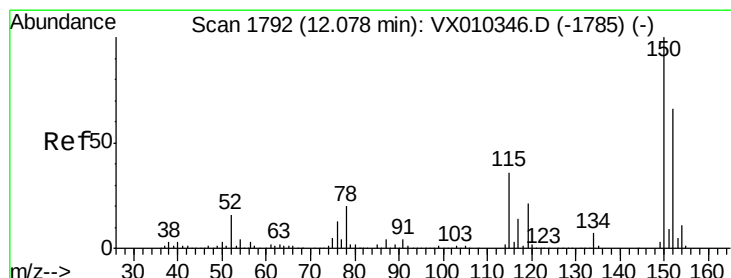
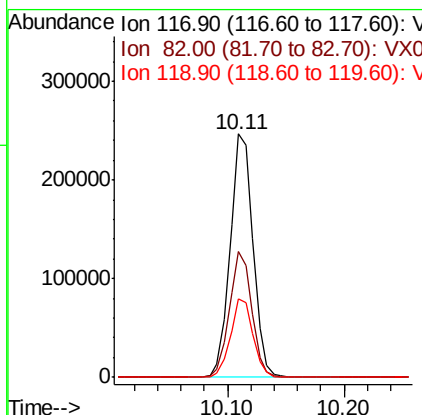
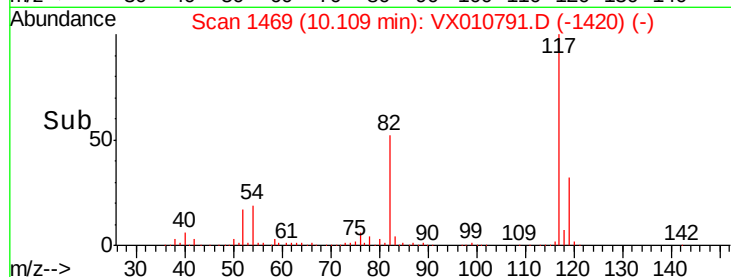
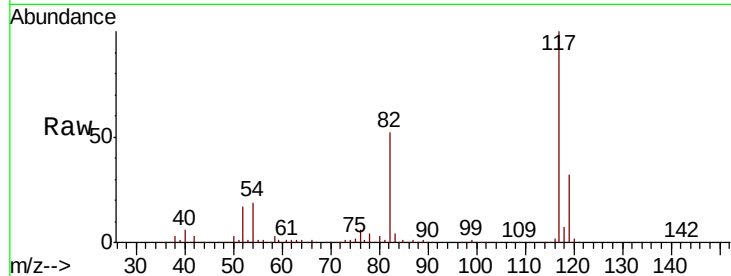




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010791.D
Acq: 10 Jul 2019 20:40

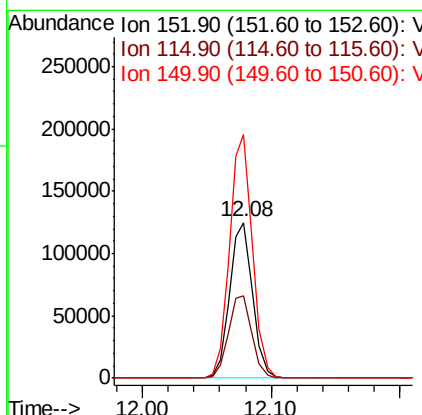
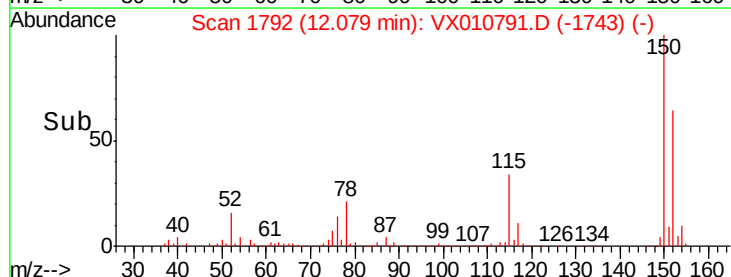
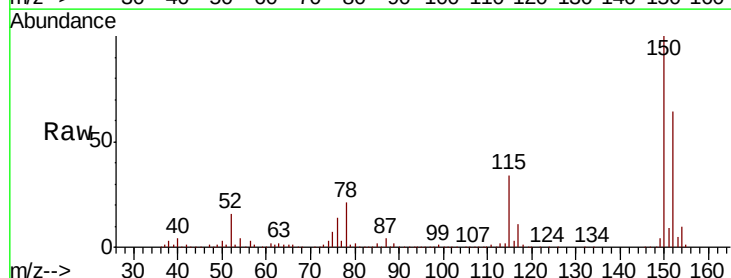
Instrument :
MSVOA_X
ClientSampleId :
SU-02-070919-B

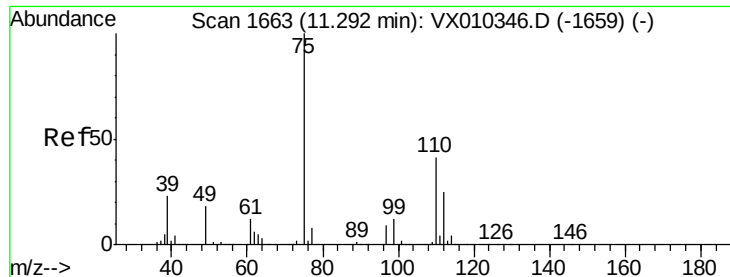
Tot Ion:117 Resp: 336707
Ion Ratio Lower Upper
117 100
82 51.8 41.2 61.8
119 32.1 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010791.D
Acq: 10 Jul 2019 20:40

Tgt Ion:152 Resp: 155967
Ion Ratio Lower Upper
152 100
115 54.4 38.6 115.7
150 155.8 0.0 347.4

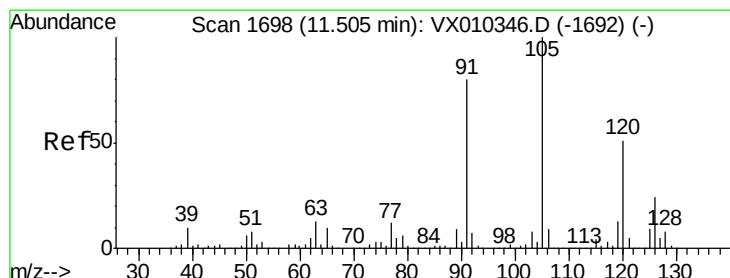
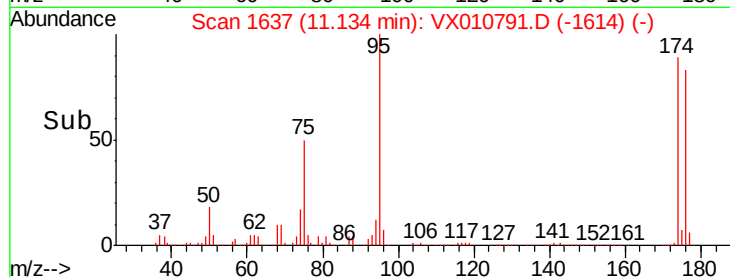
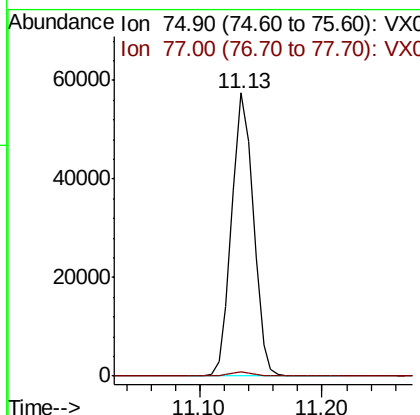
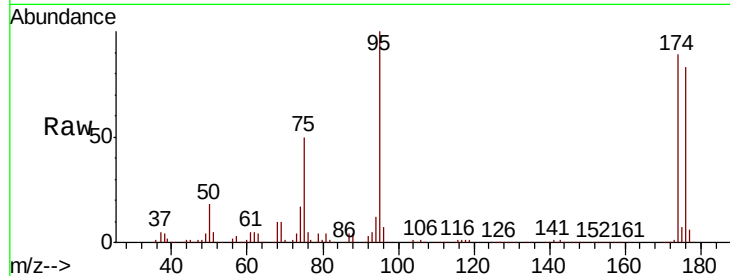




#76
 1,2,3-Trichloropropane
 Concen: 24.875 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010791.D
 Acq: 10 Jul 2019 20:40

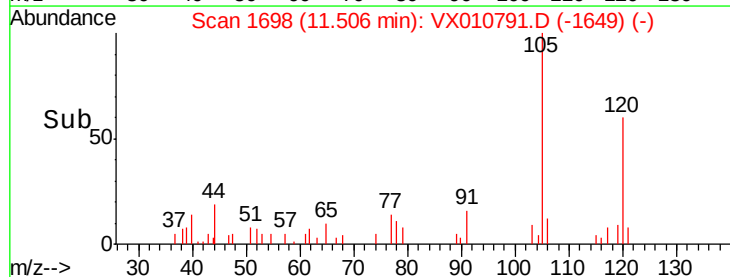
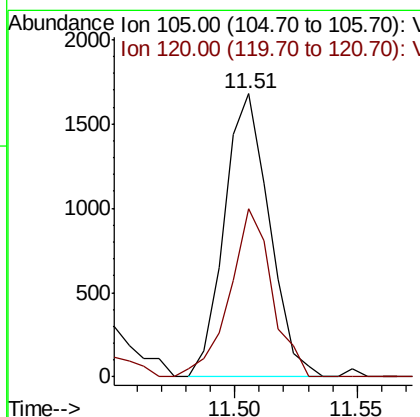
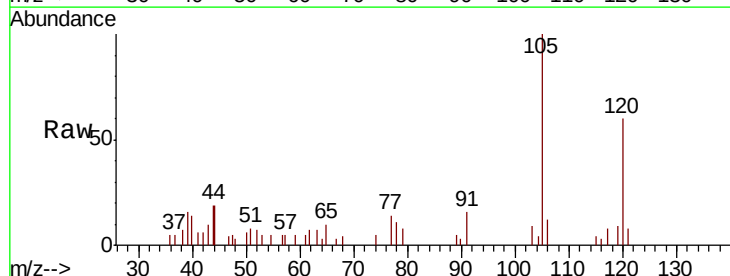
Instrument :
 MSVOA_X
 ClientSampleId :
 SU-02-070919-B

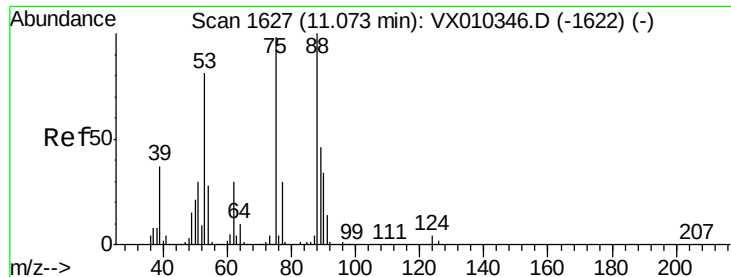
Tot Ion: 75 Resp: 70698
 Ion Ratio Lower Upper
 75 100
 77 1.5 22.6 67.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.246 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX010791.D
 Acq: 10 Jul 2019 20:40

Tgt Ion: 105 Resp: 2141
 Ion Ratio Lower Upper
 105 100
 120 56.0 25.2 75.6





#81

trans-1,4-Dichloro-2-butene

Concen: 58.031 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010791.D

Acq: 10 Jul 2019 20:40

Instrument :

MSVOA_X

ClientSampleId :

SU-02-070919-B

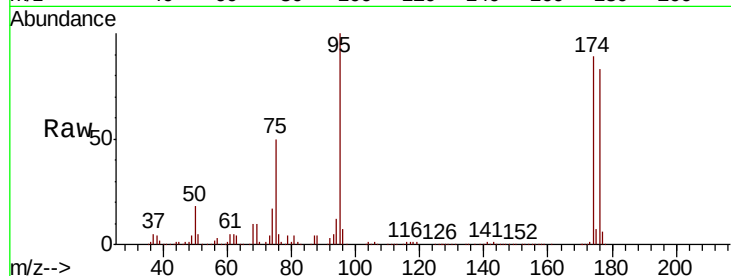
Tot Ion: 75 Resp: 70698

Ion Ratio Lower Upper

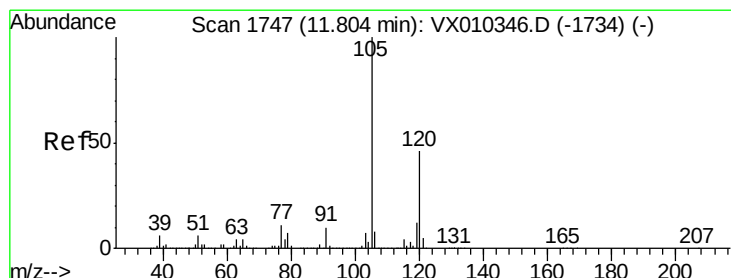
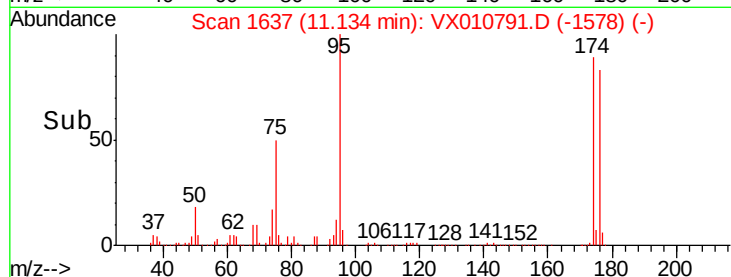
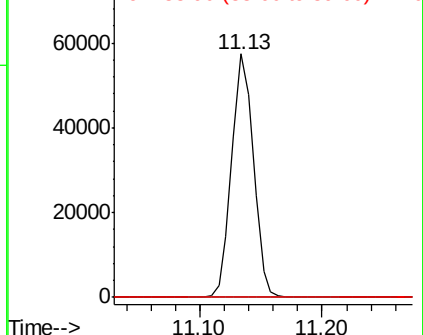
75 100

53 0.1 66.1 99.1#

89 0.0 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.228 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX010791.D

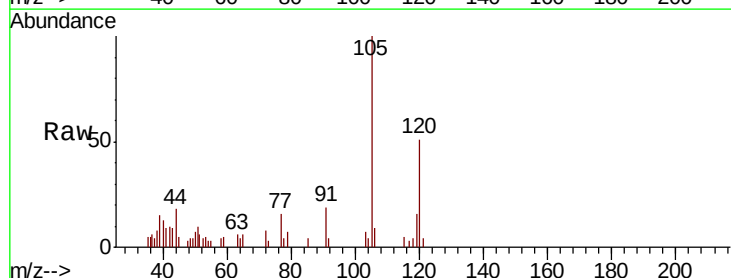
Acq: 10 Jul 2019 20:40

Tgt Ion: 105 Resp: 1994

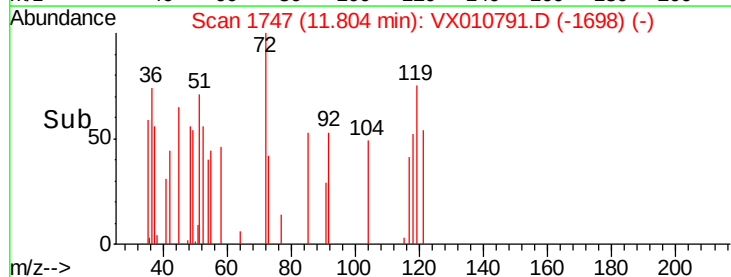
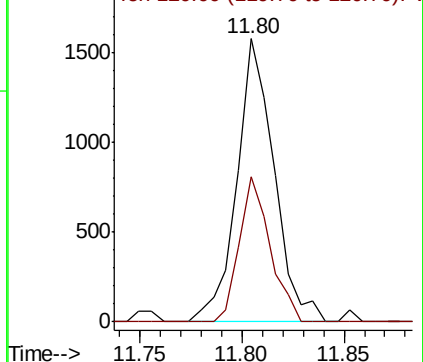
Ion Ratio Lower Upper

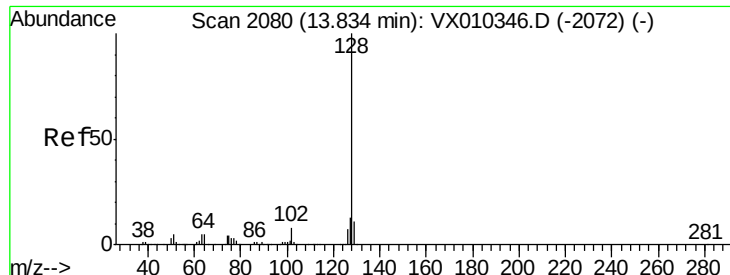
105 100

120 42.2 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 2.496 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010791.D
Acq: 10 Jul 2019 20:40

Instrument :
MSVOA_X
ClientSampleId :
SU-02-070919-B

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	11.5	8.9	13.3

