

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072919\
 Data File : VX011143.D
 Acq On : 29 Jul 2019 14:15
 Operator : JC/SP
 Sample : K4018-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0412

Quant Time: Jul 30 05:05:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	187720	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	304897	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	286662	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134835	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	106306	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	
35) Dibromofluoromethane	5.50	113	95924	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
50) Toluene-d8	8.71	98	368795	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.13	95	129177	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	

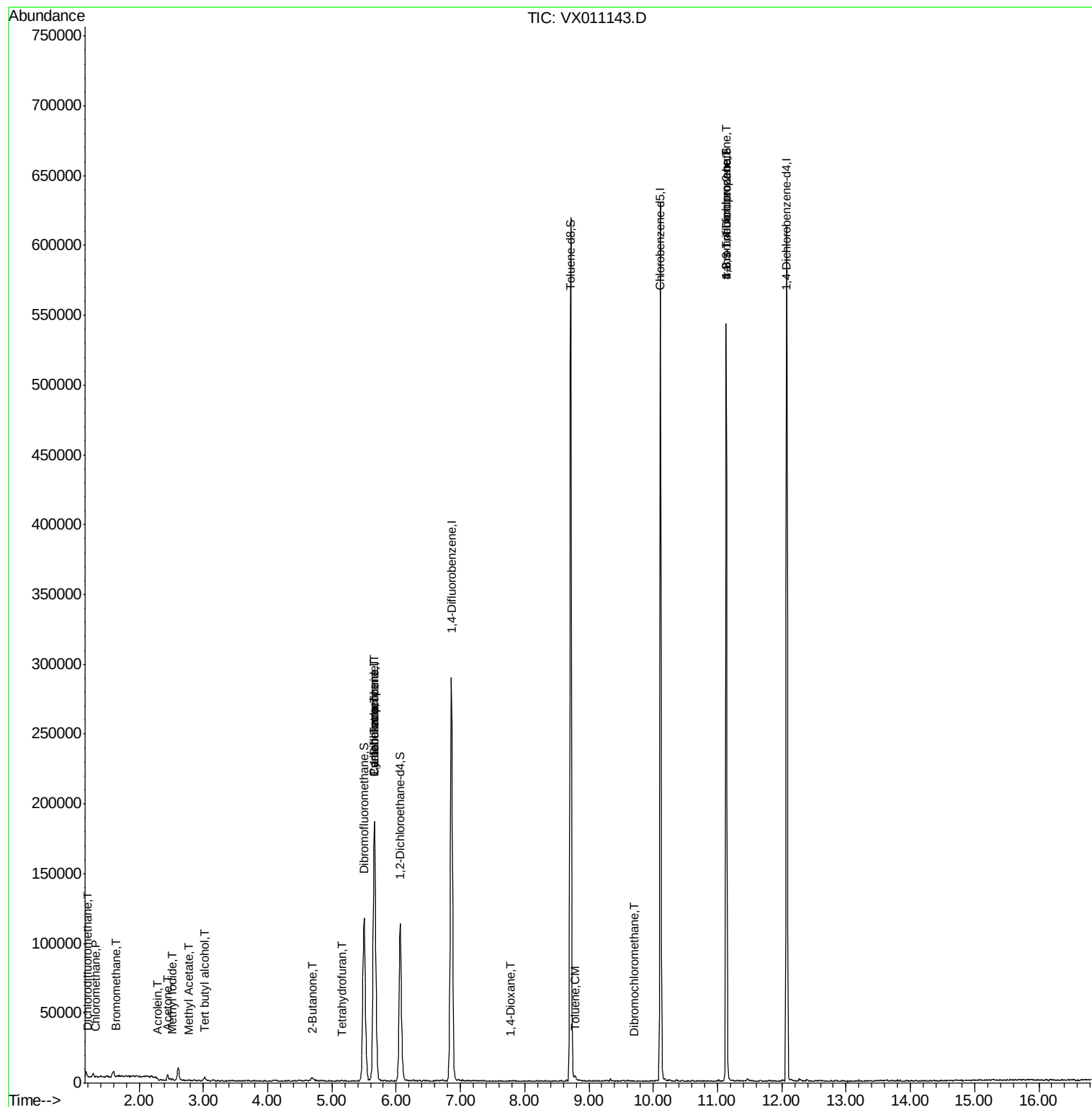
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	70	0.581	ug/l #	43
3) Chloromethane	1.33	50	624	0.361	ug/l	88
5) Bromomethane	1.65	94	593	0.598	ug/l #	59
10) Methyl Iodide	2.53	142	552	0.247	ug/l #	83
11) Tert butyl alcohol	3.01	59	1628	3.500	ug/l #	77
13) Acrolein	2.29	56	120	0.447	ug/l	90
16) Acetone	2.45	43	4478	4.965	ug/l	99
18) Methyl Acetate	2.77	43	516	0.251	ug/l	93
25) 2-Butanone	4.69	43	1333	1.030	ug/l	97
29) Tetrahydrofuran	5.15	42	312	0.380	ug/l #	54
31) Cyclohexane	5.66	56	3561	1.313	ug/l #	29
36) 1,1-Dichloropropene	5.66	75	12812	5.116	ug/l #	50
38) Carbon Tetrachloride	5.67	117	17878	6.850	ug/l #	19
49) 1,4-Dioxane	7.79	88	64	1.114	ug/l #	40
52) Toluene	8.78	92	1156	0.229	ug/l #	70
60) Dibromochloromethane	9.71	129	19	2.535	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	64940	26.689	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	64940	66.217	ug/l #	11

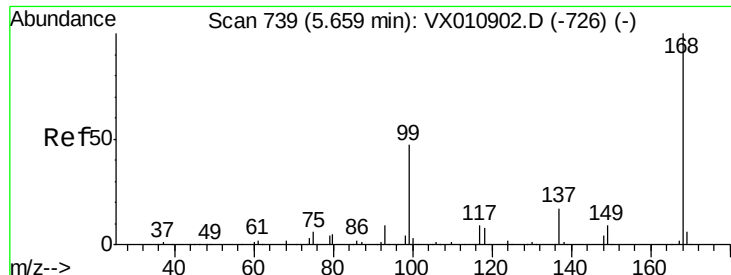
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

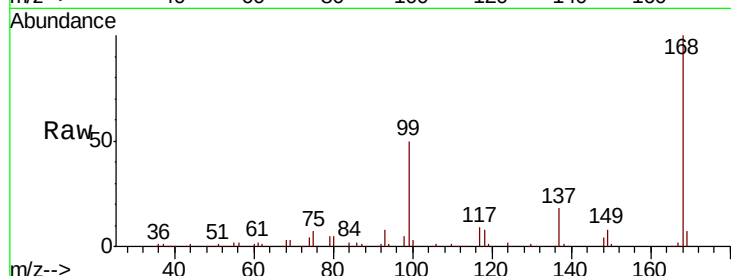
SU19-MSW0412

Tot Ion:168 Resp: 187720

Ion Ratio Lower Upper

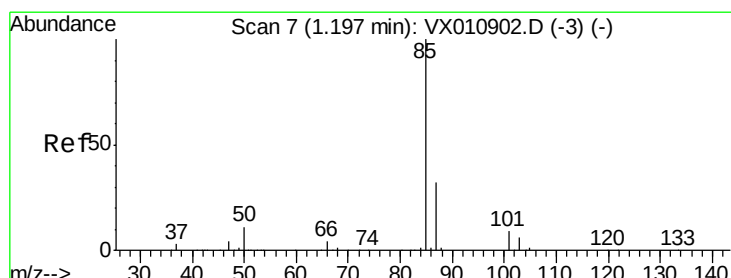
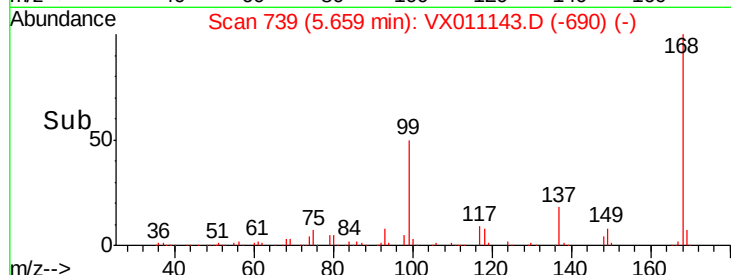
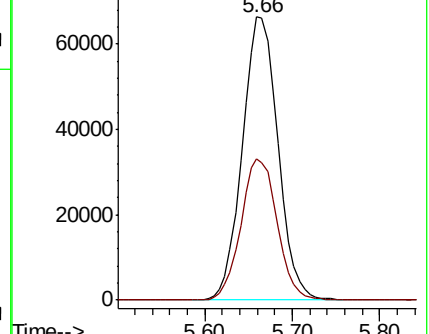
168 100

99 50.0 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.581 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011143.D

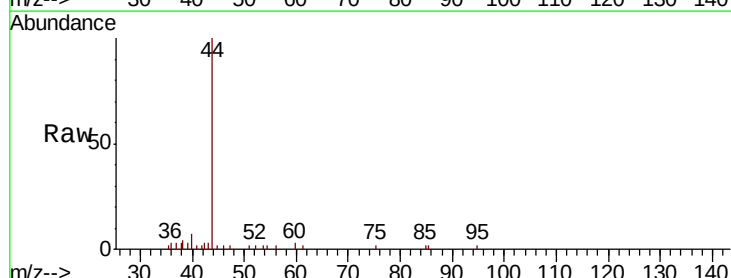
Acq: 29 Jul 2019 14:15

Tgt Ion: 85 Resp: 70

Ion Ratio Lower Upper

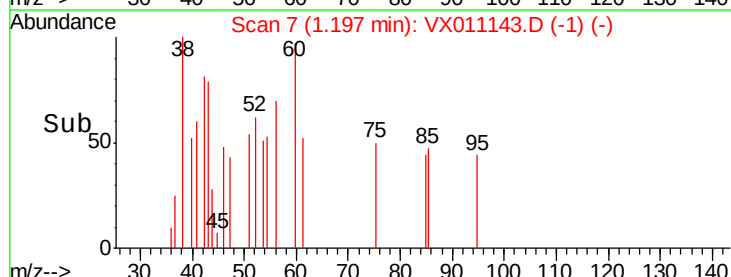
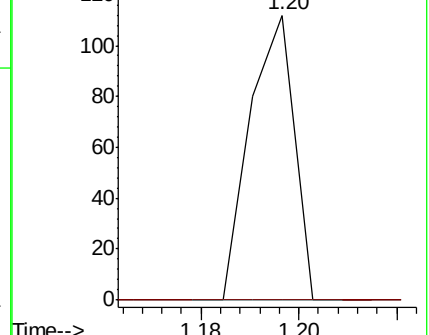
85 100

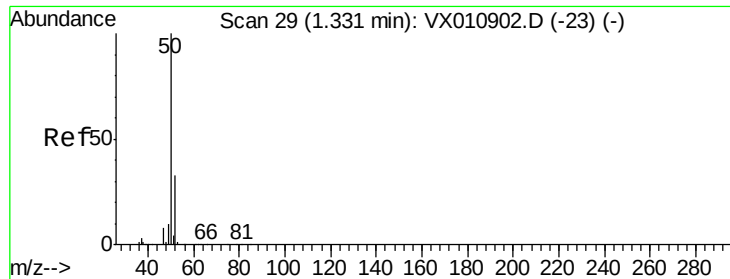
87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.361 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

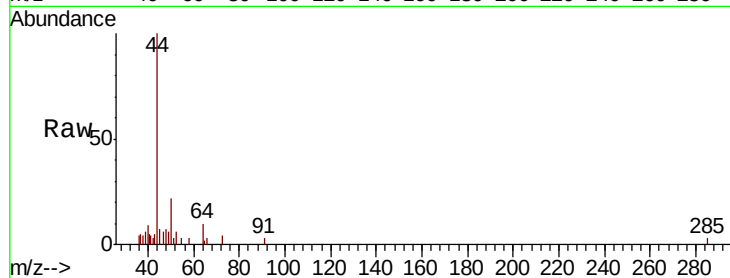
SU19-MSW0412

Tot Ion: 50 Resp: 624

Ion Ratio Lower Upper

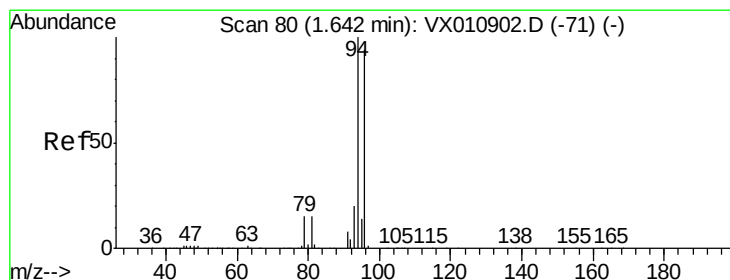
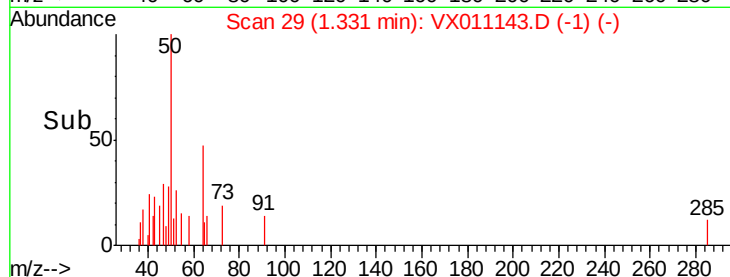
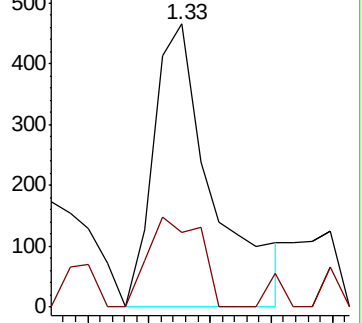
50 100

52 26.5 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.598 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011143.D

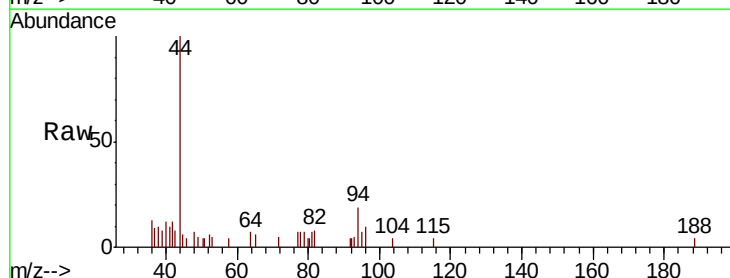
Acq: 29 Jul 2019 14:15

Tgt Ion: 94 Resp: 593

Ion Ratio Lower Upper

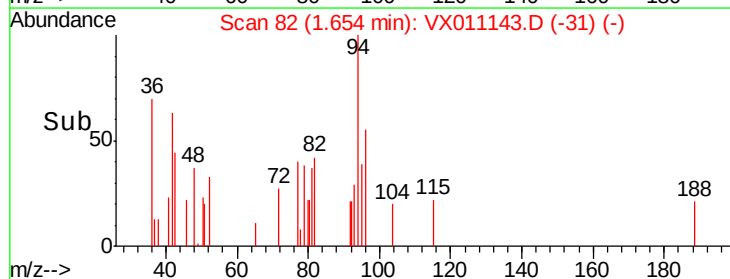
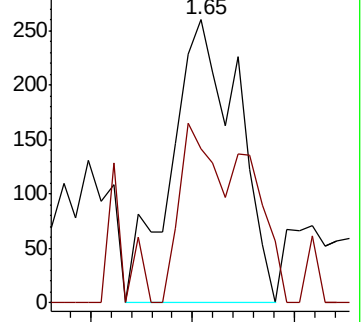
94 100

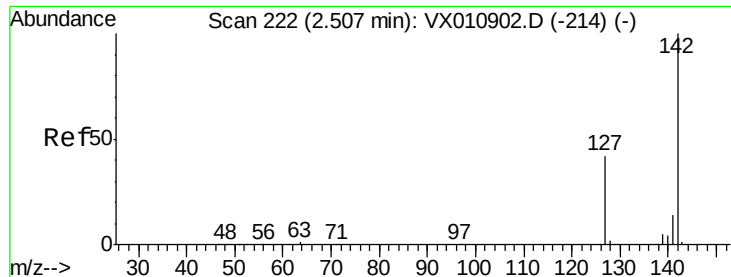
96 54.6 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

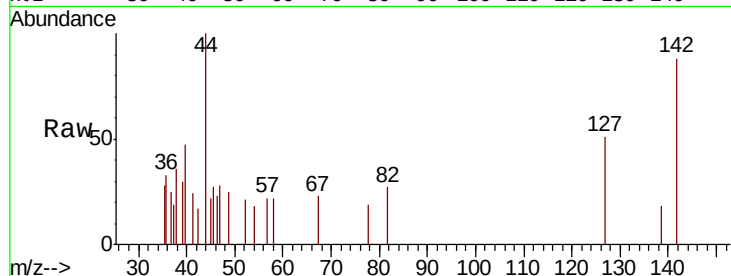




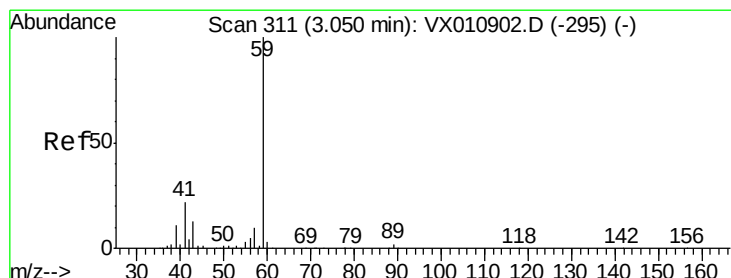
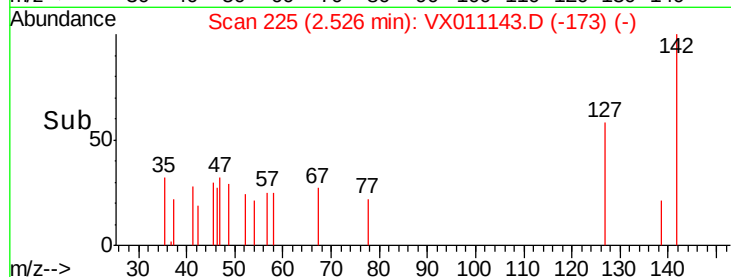
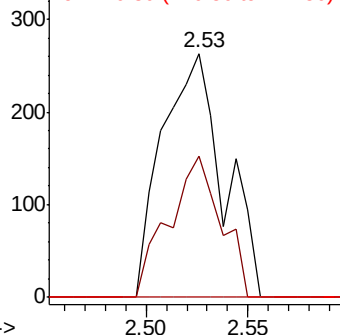
#10
Methvl Iodide
Concen: 0.247 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX011143.D
Acq: 29 Jul 2019 14:15

Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0412

Tot Ion:142 Resp: 552
Ion Ratio Lower Upper
142 100
127 49.5 34.2 51.4
141 0.0 11.7 17.5#

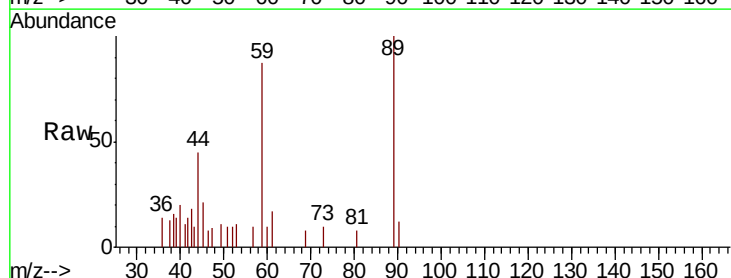


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

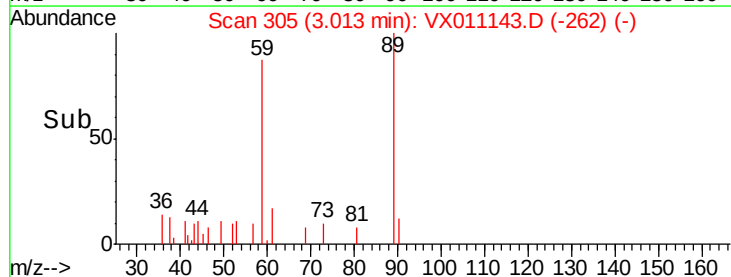
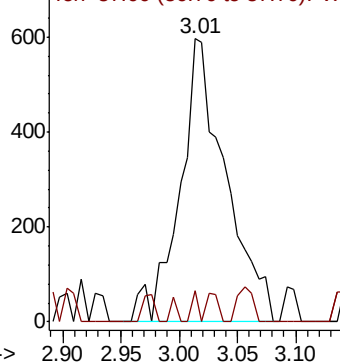


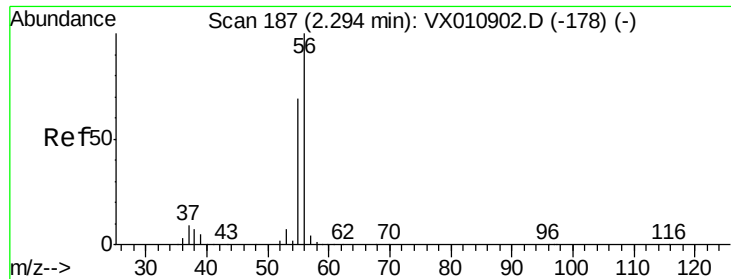
#11
Tert butyl alcohol
Concen: 3.500 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX011143.D
Acq: 29 Jul 2019 14:15

Tgt Ion: 59 Resp: 1628
Ion Ratio Lower Upper
59 100
57 1.5 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.447 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

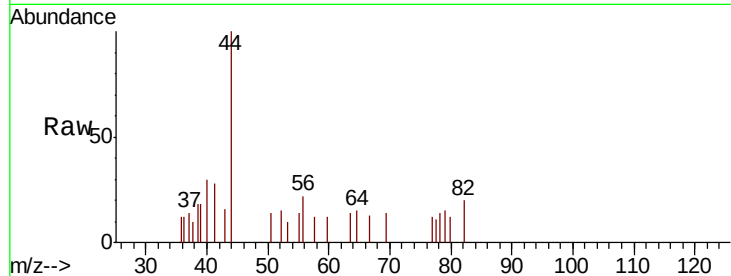
SU19-MSW0412

Tot Ion: 56 Resp: 120

Ion Ratio Lower Upper

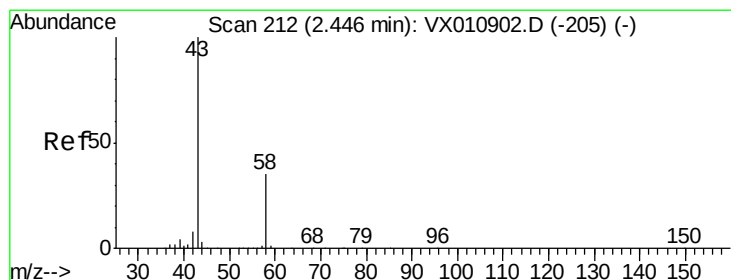
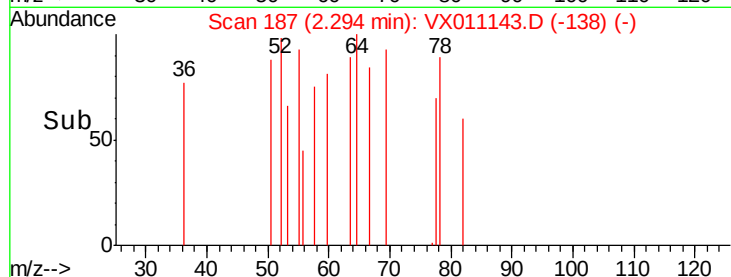
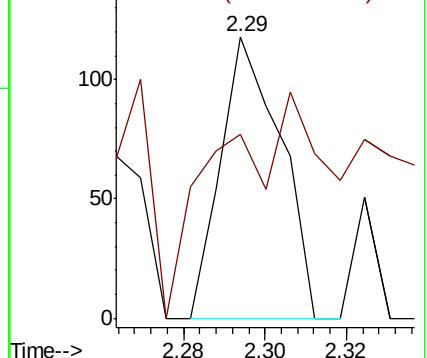
56 100

55 78.3 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 4.965 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX011143.D

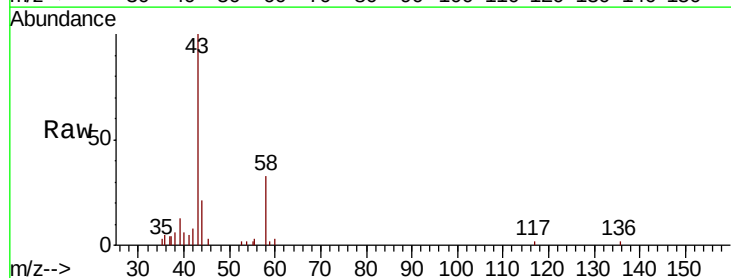
Acq: 29 Jul 2019 14:15

Tgt Ion: 43 Resp: 4478

Ion Ratio Lower Upper

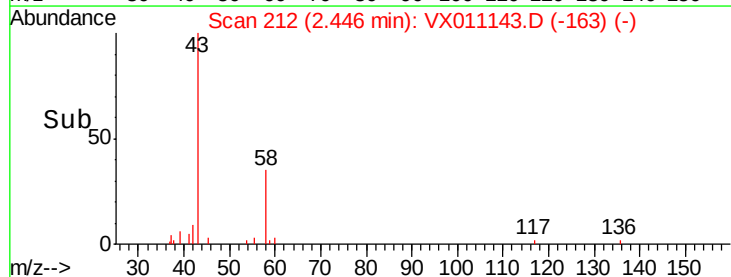
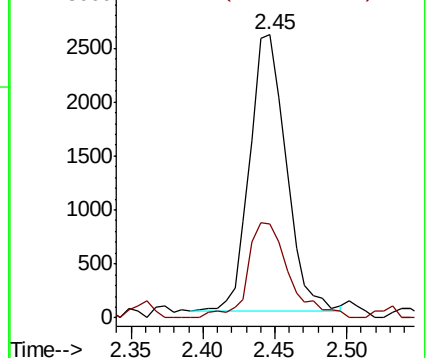
43 100

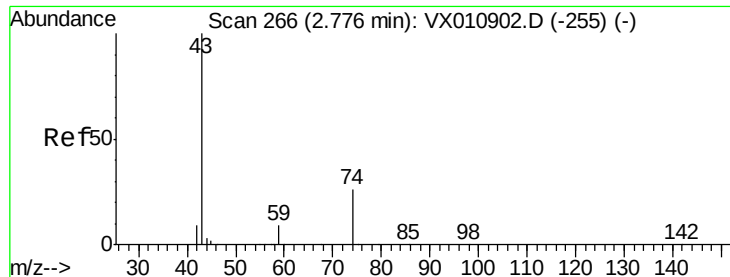
58 33.9 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

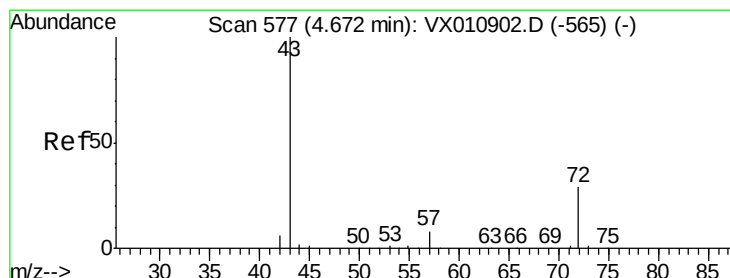
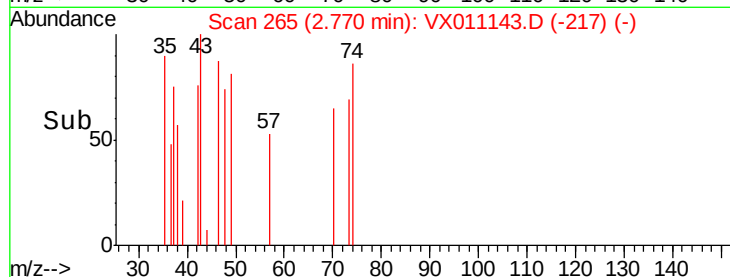
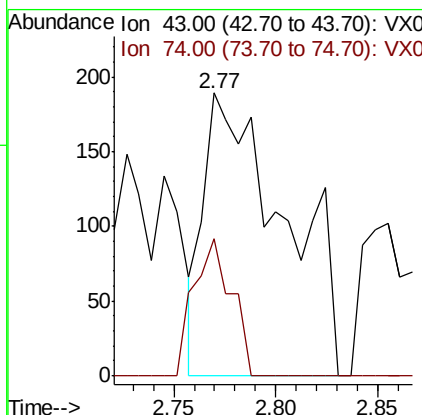
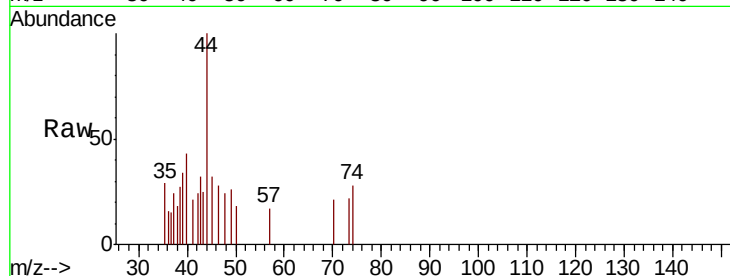




#18
Methyl Acetate
Concen: 0.251 ug/l
RT: 2.77 min Scan# 265
Delta R.T. -0.01 min
Lab File: VX011143.D
Acq: 29 Jul 2019 14:15

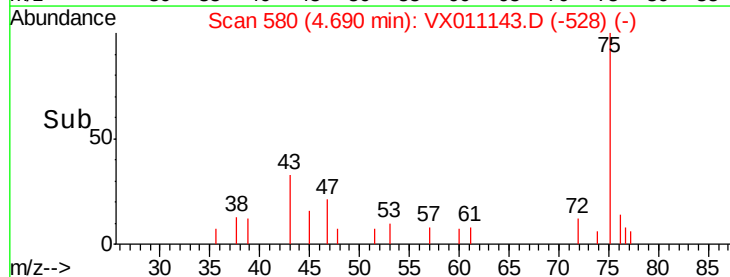
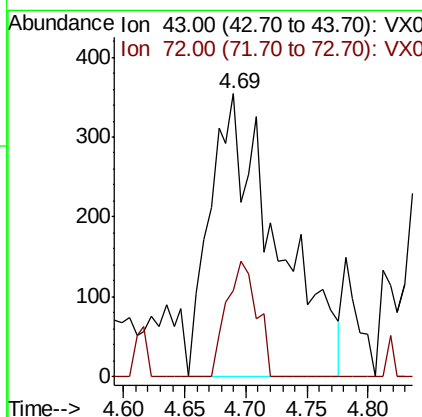
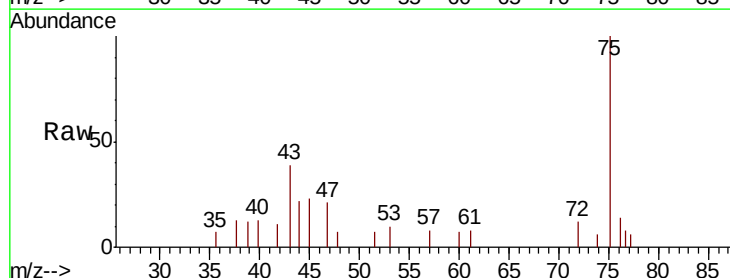
Instrument :
MSVOA_X
ClientSampled :
SU19-MSW0412

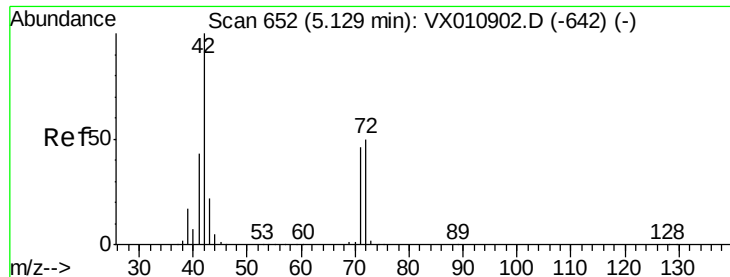
Tot Ion: 43 Resp: 516
Ion Ratio Lower Upper
43 100
74 23.1 21.5 32.3



#25
2-Butanone
Concen: 1.030 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX011143.D
Acq: 29 Jul 2019 14:15

Tgt Ion: 43 Resp: 1333
Ion Ratio Lower Upper
43 100
72 30.2 23.0 34.6





#29

Tetrahydrofuran

Concen: 0.380 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0412

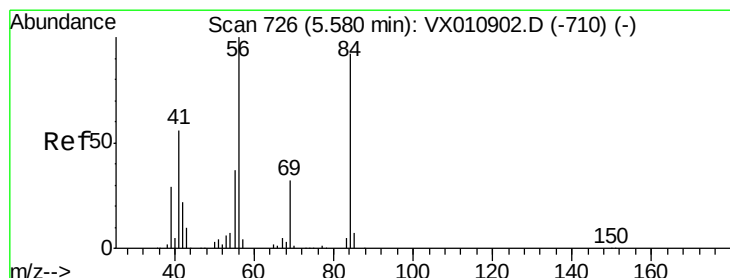
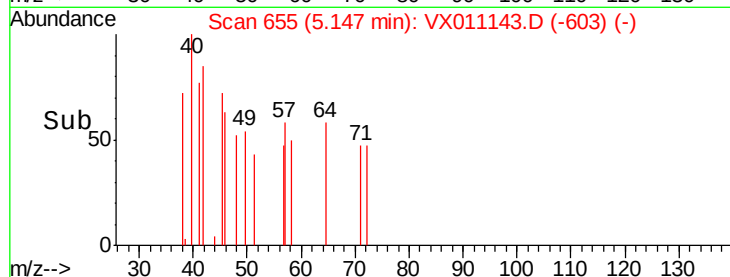
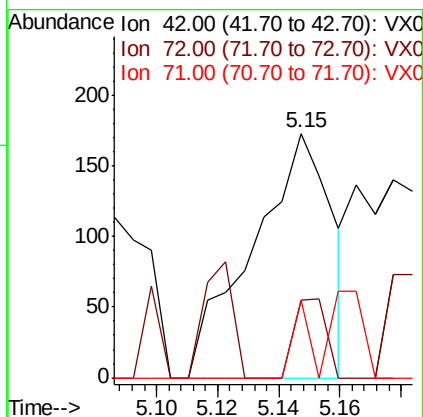
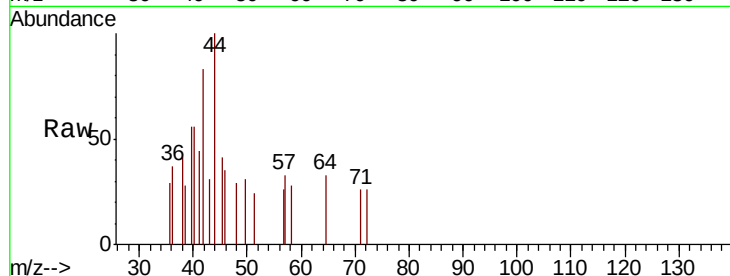
Tot Ion: 42 Resp: 312

Ion Ratio Lower Upper

42 100

72 13.1 39.8 59.8#

71 20.8 37.0 55.4#



#31

Cyclohexane

Concen: 1.313 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

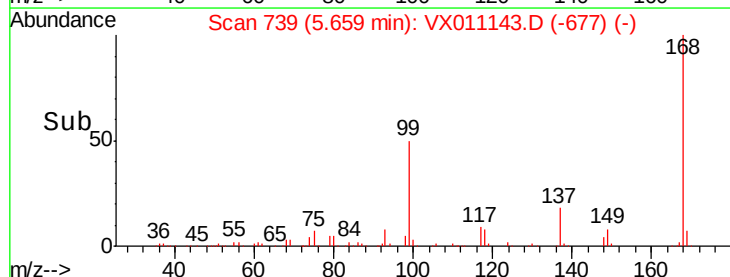
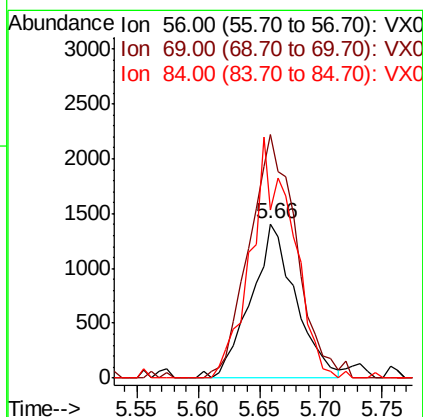
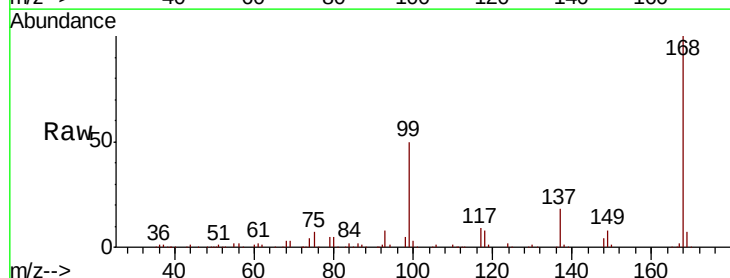
Tgt Ion: 56 Resp: 3561

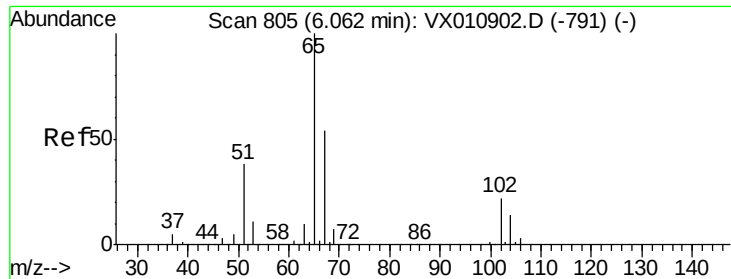
Ion Ratio Lower Upper

56 100

69 158.1 25.8 38.8#

84 109.0 73.8 110.6

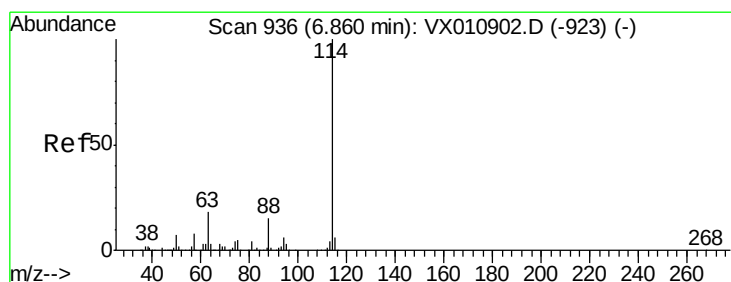
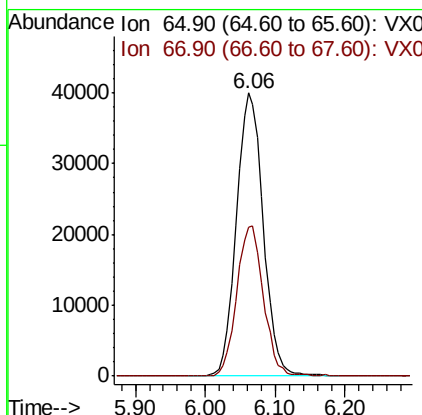
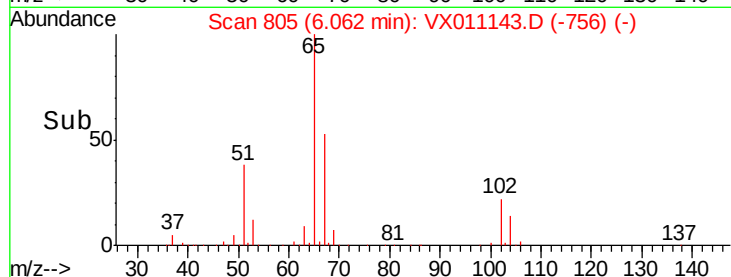
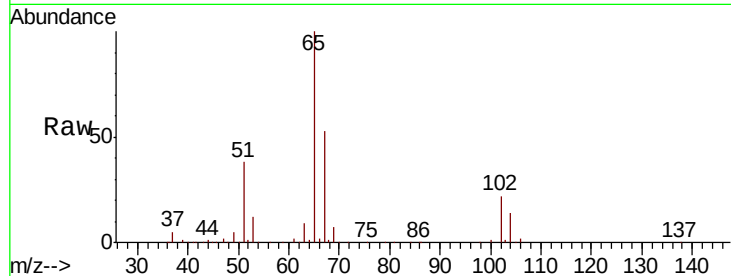




#33
 1,2-Dichloroethane-d4
 Concen: 53.231 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX011143.D
 Acq: 29 Jul 2019 14:15

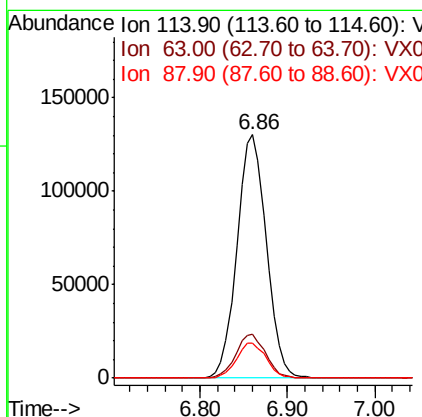
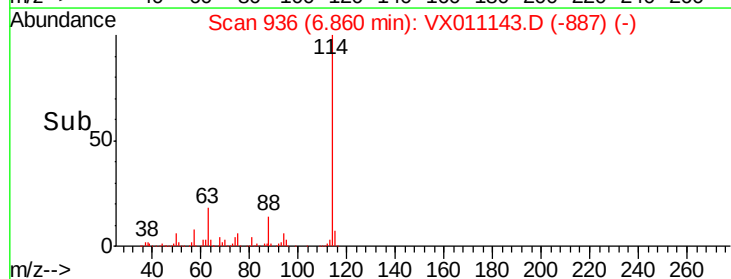
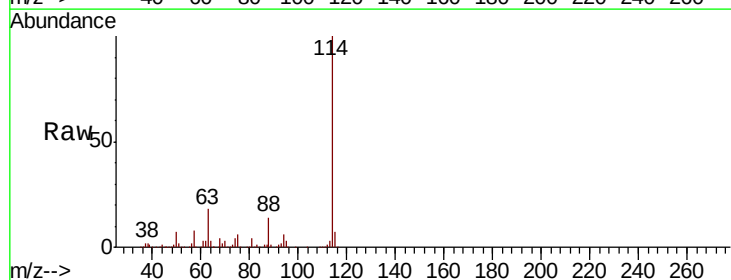
Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0412

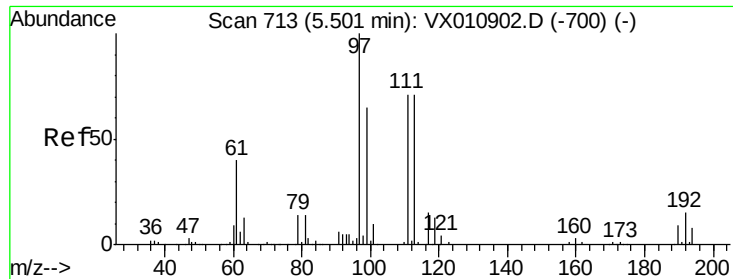
Tot Ion: 65 Resp: 106306
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX011143.D
 Acq: 29 Jul 2019 14:15

Tgt Ion: 114 Resp: 304897
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 35.6
 88 14.2 0.0 29.8

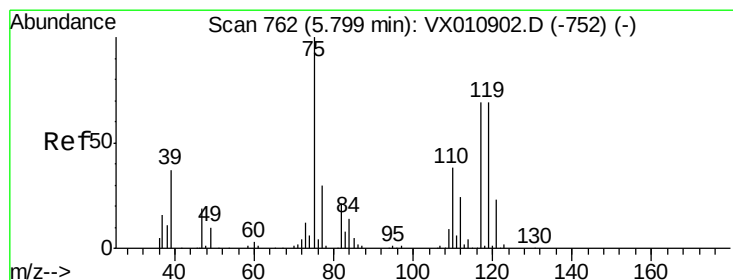
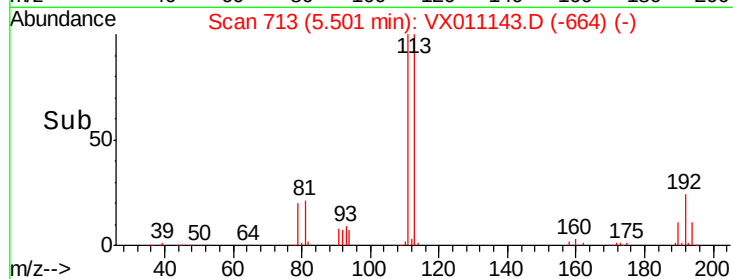
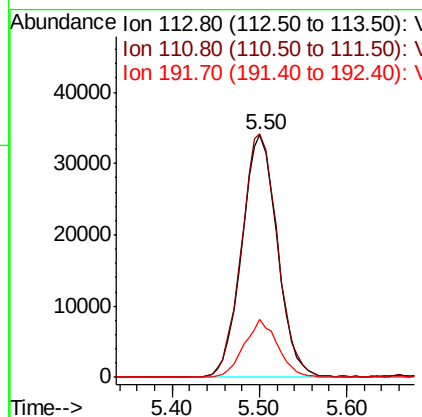
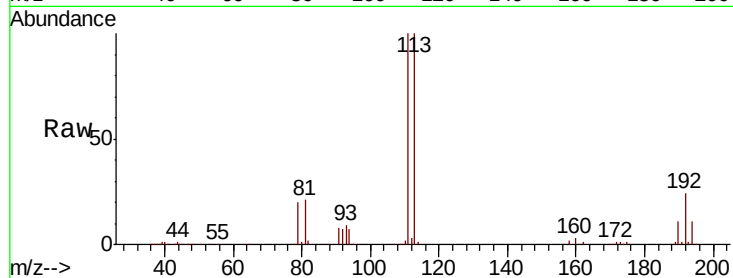




#35
 Dibromofluoromethane
 Concen: 49.567 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX011143.D
 Acq: 29 Jul 2019 14:15

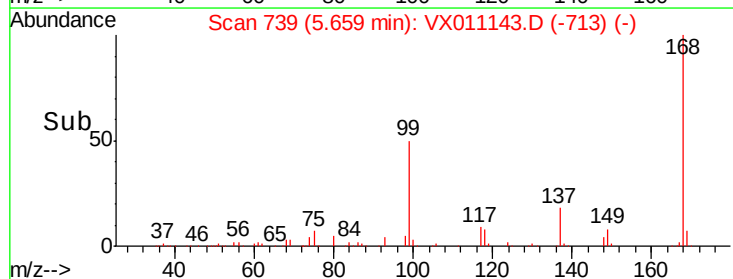
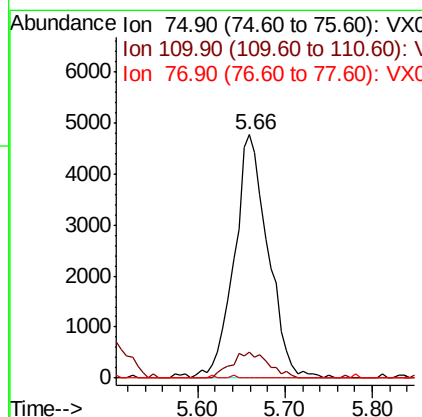
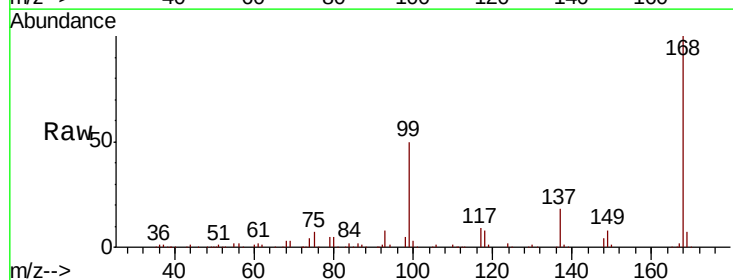
Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0412

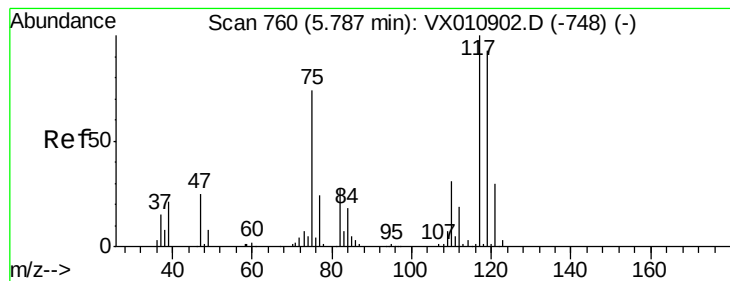
Tot Ion:113 Resp: 95924
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.3 123.5
 192 22.6 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 5.116 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX011143.D
 Acq: 29 Jul 2019 14:15

Tgt Ion: 75 Resp: 12812
 Ion Ratio Lower Upper
 75 100
 110 11.8 19.9 59.7#
 77 0.2 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.850 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0412

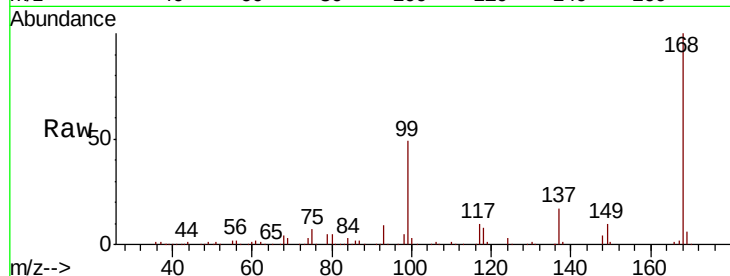
Tot Ion:117 Resp: 17878

Ion Ratio Lower Upper

117 100

119 6.7 74.2 111.2#

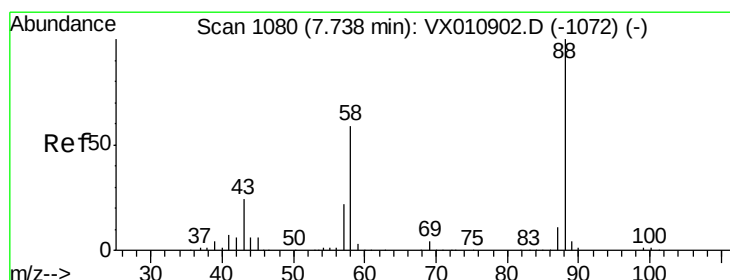
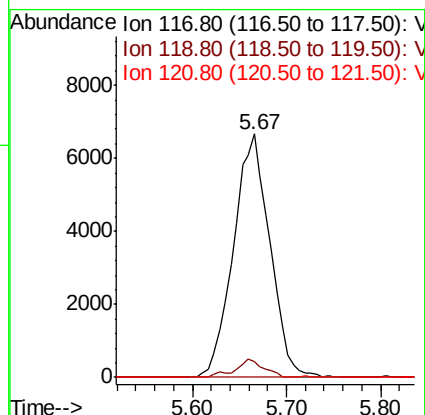
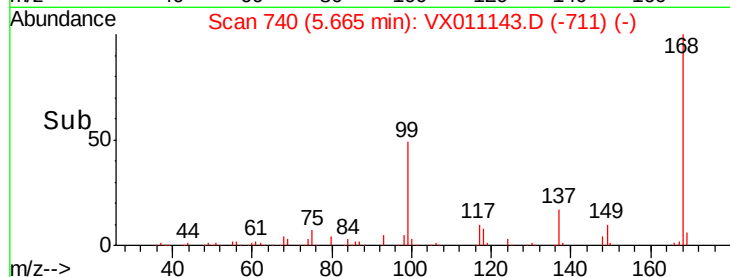
121 0.0 24.2 36.2#



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: 1.114 ug/l

RT: 7.79 min Scan# 1088

Delta R.T. 0.05 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

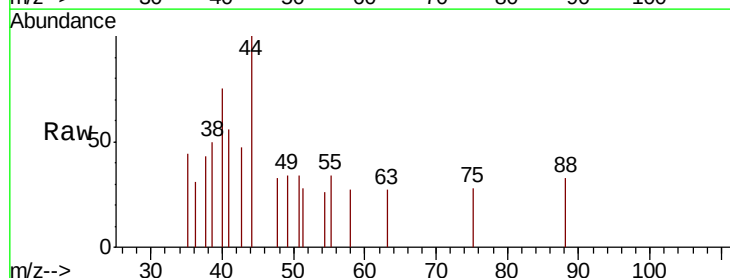
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 117.2 22.9 34.3#

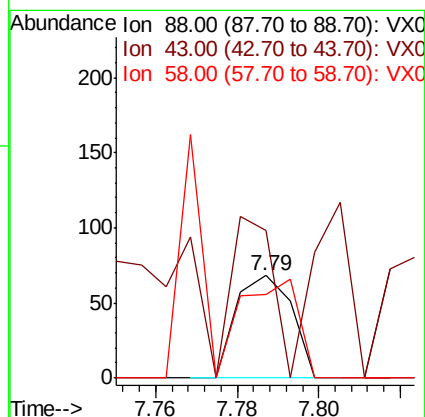
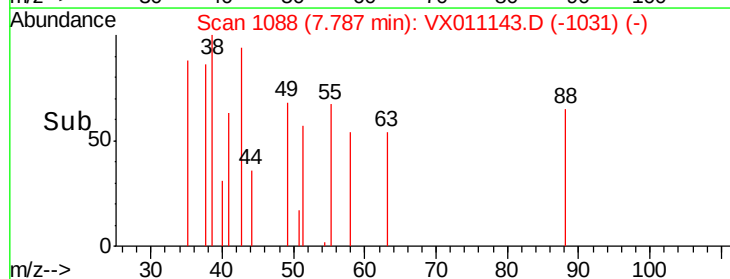
58 70.3 49.8 74.8

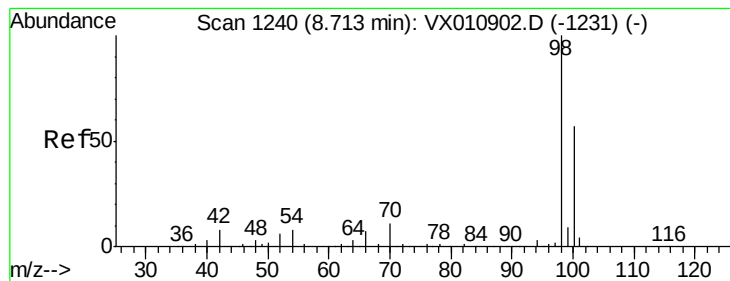


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.809 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

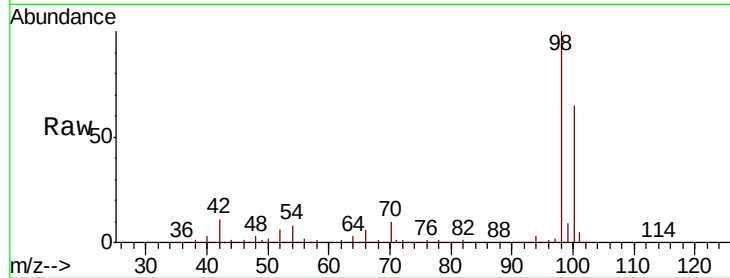
SU19-MSW0412

Tot Ion: 98 Resp: 368795

Ion Ratio Lower Upper

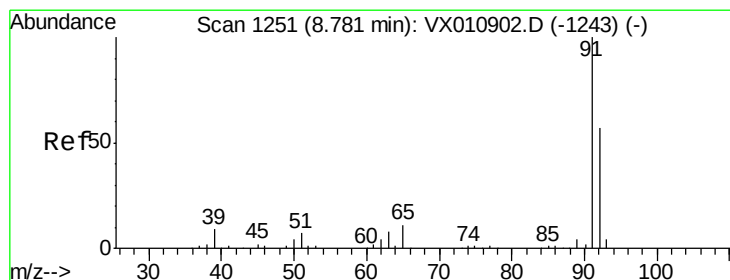
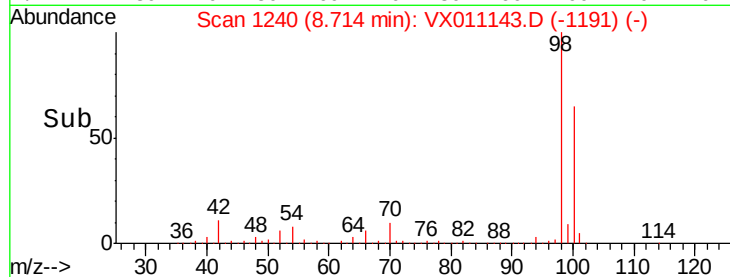
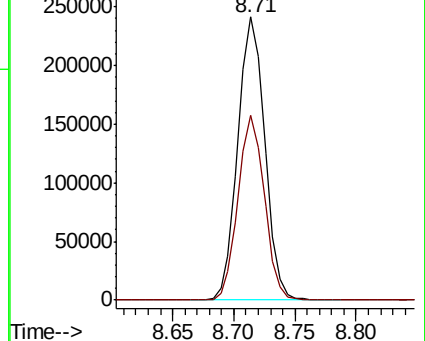
98 100

100 63.9 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#52

Toluene

Concen: 0.229 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VX011143.D

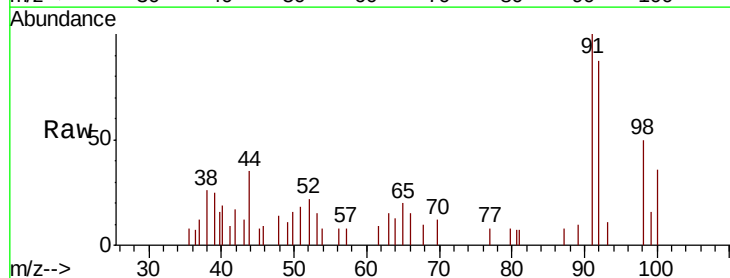
Acq: 29 Jul 2019 14:15

Tgt Ion: 92 Resp: 1156

Ion Ratio Lower Upper

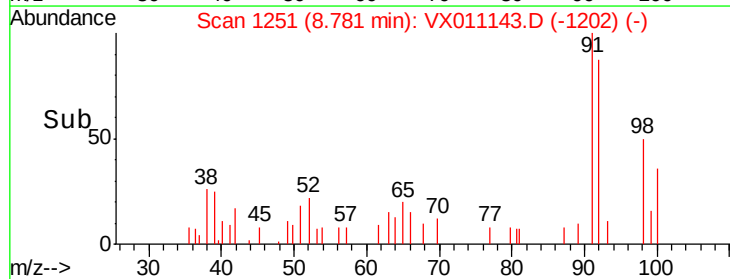
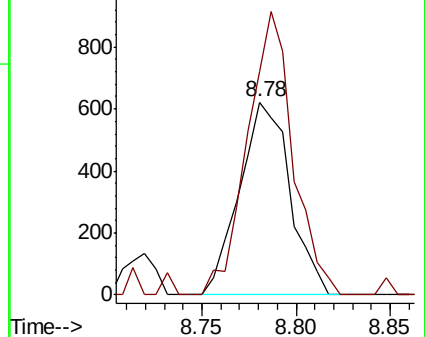
92 100

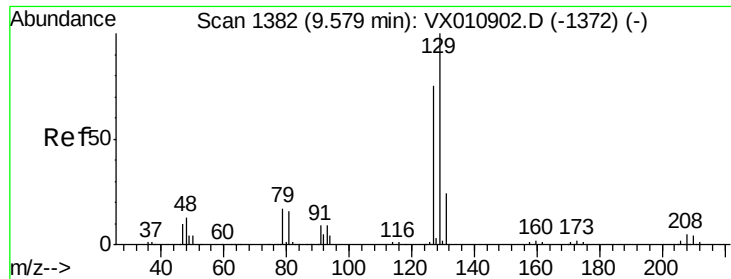
91 132.6 139.4 209.0#



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#60

Dibromochloromethane

Concen: 2.535 ug/l

RT: 9.71 min Scan# 1403

Delta R.T. 0.13 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

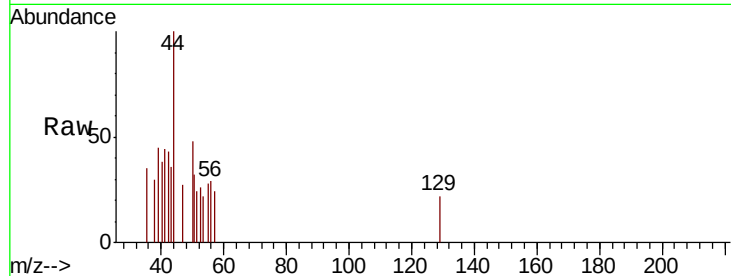
SU19-MSW0412

Tot Ion:129 Resp: 19

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.71

60

50

40

30

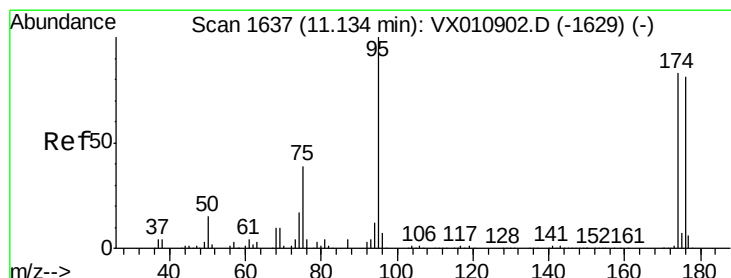
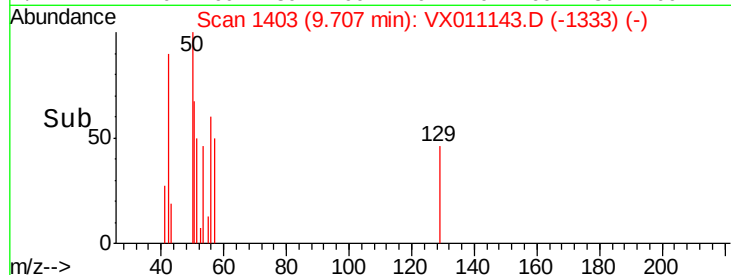
20

10

0

9.69 9.70 9.71 9.72

Time-->



#62

4-Bromofluorobenzene

Concen: 48.418 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

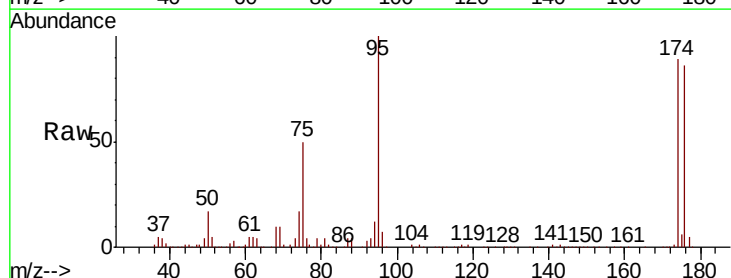
Tgt Ion: 95 Resp: 129177

Ion Ratio Lower Upper

95 100

174 91.3 0.0 180.6

176 88.4 0.0 173.8



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

150000

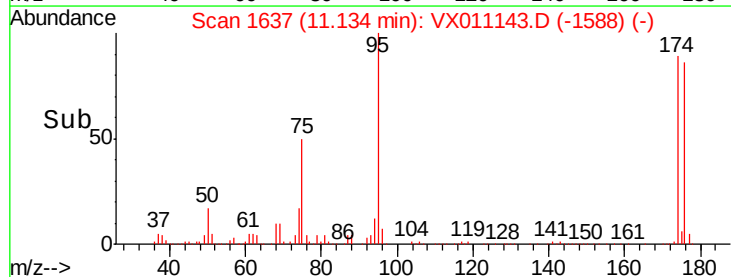
100000

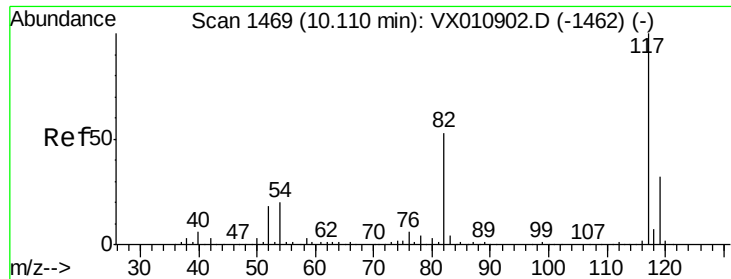
50000

0

11.10 11.13 11.20

Time-->

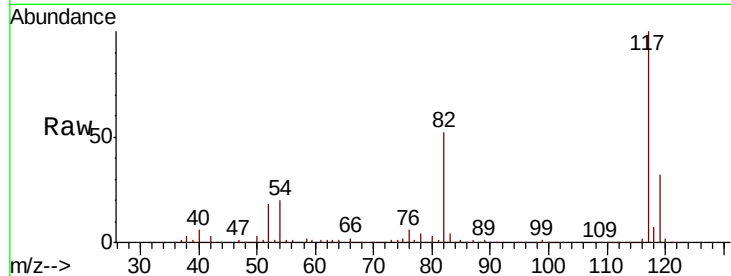




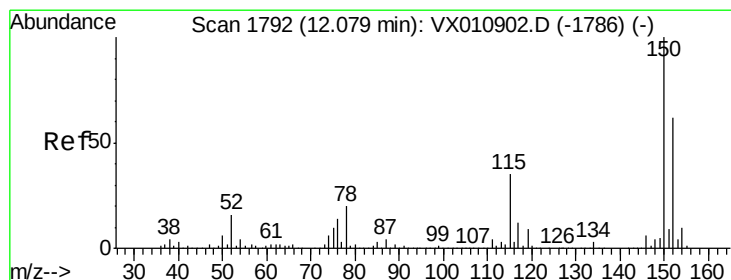
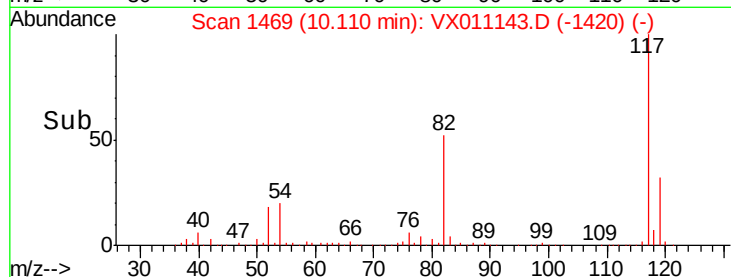
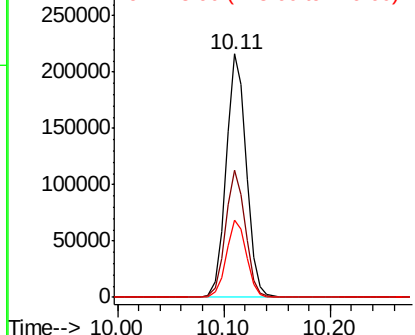
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011143.D
Acq: 29 Jul 2019 14:15

Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0412

Tot Ion:117 Resp: 286662
Ion Ratio Lower Upper
117 100
82 52.2 42.6 63.8
119 32.0 25.9 38.9

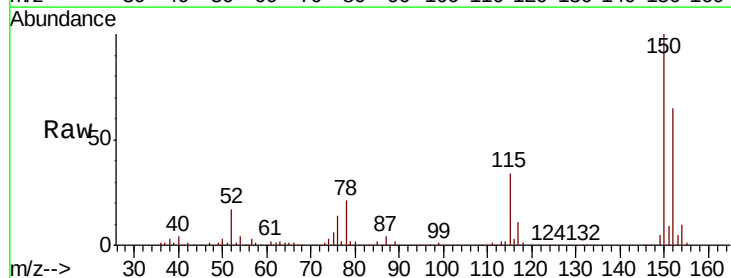


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

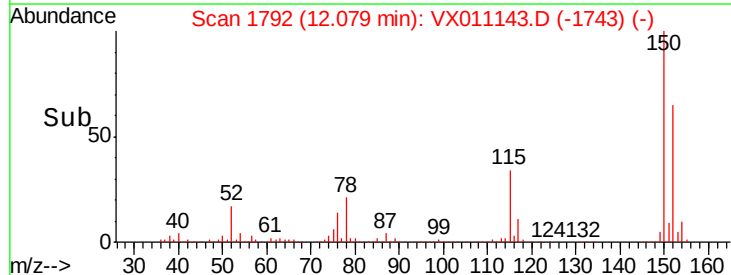
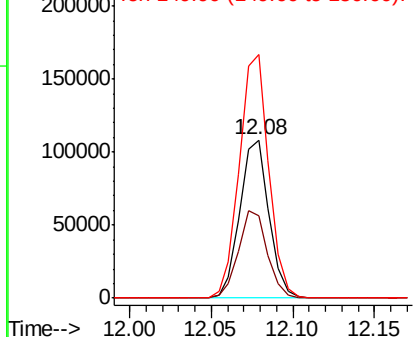


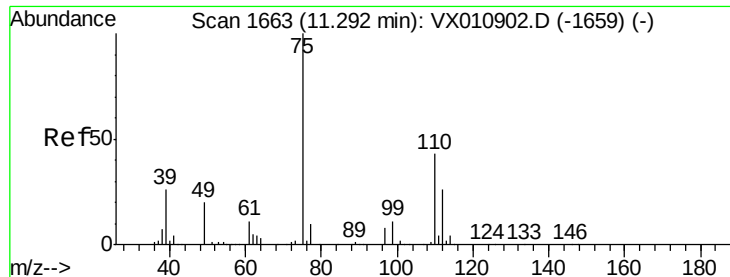
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX011143.D
Acq: 29 Jul 2019 14:15

Tgt Ion:152 Resp: 134835
Ion Ratio Lower Upper
152 100
115 55.0 39.7 119.1
150 155.7 0.0 345.6



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: 26.689 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

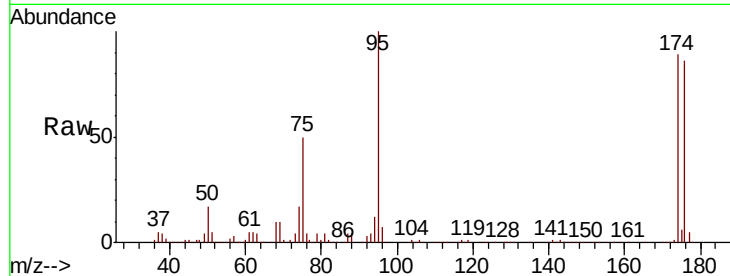
SU19-MSW0412

Tot Ion: 75 Resp: 64940

Ion Ratio Lower Upper

75 100

77 1.3 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

30000

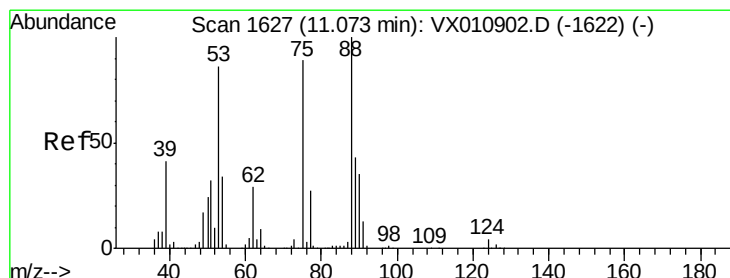
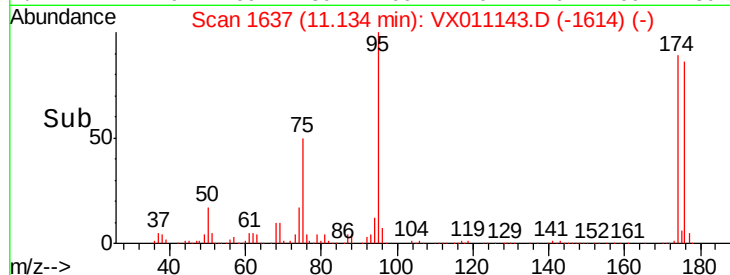
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 66.217 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011143.D

Acq: 29 Jul 2019 14:15

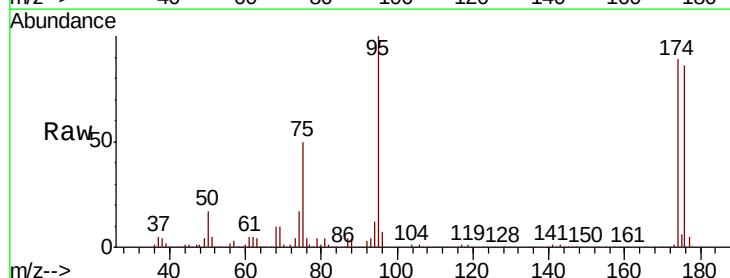
Tgt Ion: 75 Resp: 64940

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.1 38.5 57.7#



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

60000

40000

20000

0

Time-->

11.10 11.20

