

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072619\
 Data File : VX011093.D
 Acq On : 26 Jul 2019 16:12
 Operator : JC/SP
 Sample : K4017-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0106

Quant Time: Jul 27 02:03:40 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	5.67	168	208490	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	327957	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	306921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	145212	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	115103	51.89	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.78%	
35) Dibromofluoromethane	5.50	113	103215	49.58	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.16%	
50) Toluene-d8	8.71	98	400003	51.23	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	11.13	95	139001	48.44	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.88%	

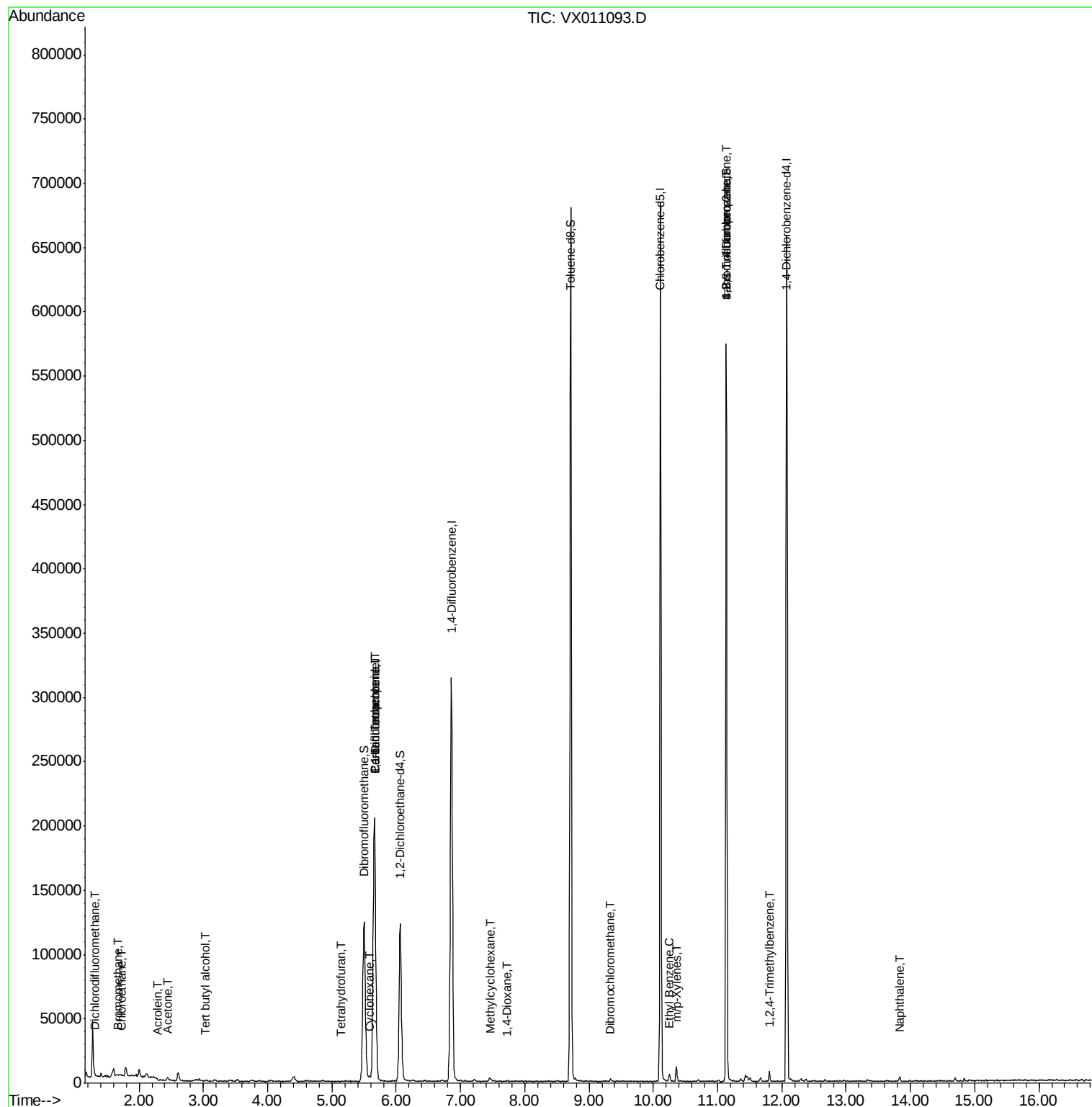
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.32	85	19	0.555	ug/l #	43
5) Bromomethane	1.67	94	428	0.388	ug/l #	67
6) Chloroethane	1.73	64	589	0.474	ug/l #	41
11) Tert butyl alcohol	3.04	59	941	1.822	ug/l #	91
13) Acrolein	2.29	56	90	0.302	ug/l #	48
16) Acetone	2.44	43	2899	2.894	ug/l #	79
29) Tetrahydrofuran	5.14	42	201	0.221	ug/l #	29
31) Cyclohexane	5.59	56	1955	0.649	ug/l	86
36) 1,1-Dichloropropene	5.66	75	13687	5.081	ug/l #	49
38) Carbon Tetrachloride	5.67	117	19952	7.108	ug/l #	17
39) Methylcyclohexane	7.46	83	1266	0.362	ug/l	92
49) 1,4-Dioxane	7.73	88	20	0.324	ug/l #	1
60) Dibromochloromethane	9.34	129	336	2.652	ug/l #	11
67) Ethyl Benzene	10.25	91	3390	0.316	ug/l	94
68) m/p-Xylenes	10.35	106	2550	0.620	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	70350	26.847	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	70350	66.584	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.80	105	3140	0.380	ug/l	96
95) Naphthalene	13.83	128	2095	0.225	ug/l	96

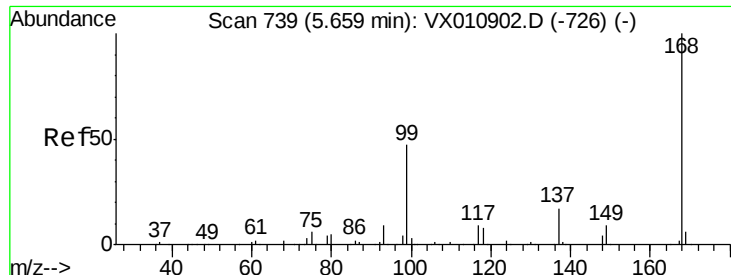
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 27 02:03:40 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
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: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

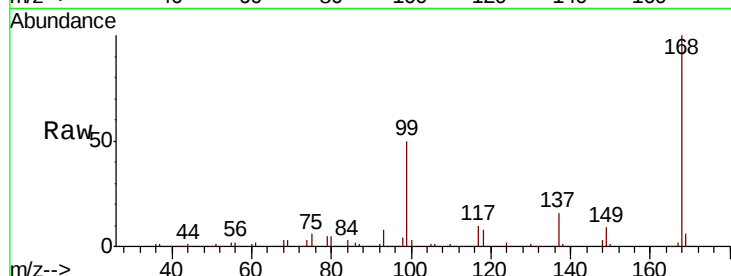
SU19-MSW0106

Tot Ion:168 Resp: 208490

Ion Ratio Lower Upper

168 100

99 50.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

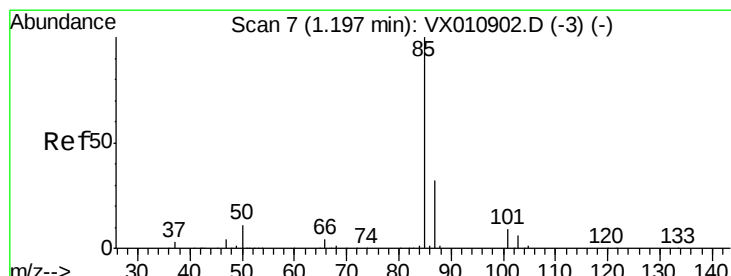
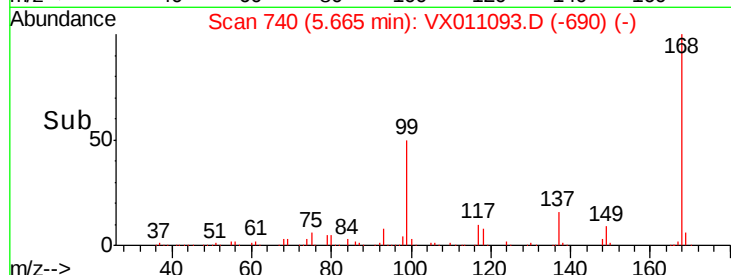
40000

20000

0

5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.555 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.12 min

Lab File: VX011093.D

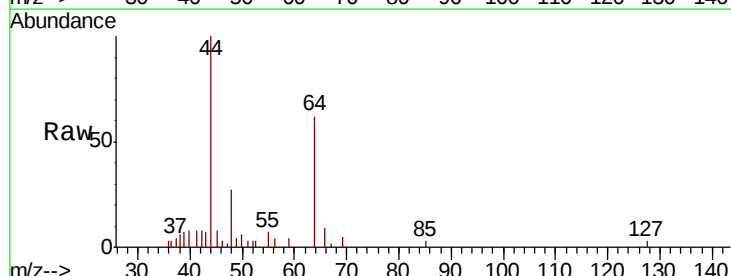
Acq: 26 Jul 2019 16:12

Tgt Ion: 85 Resp: 19

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

1.32

60

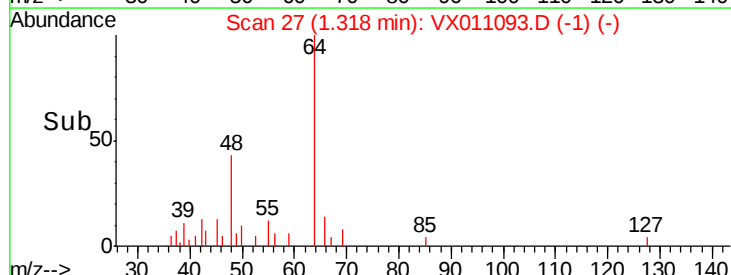
40

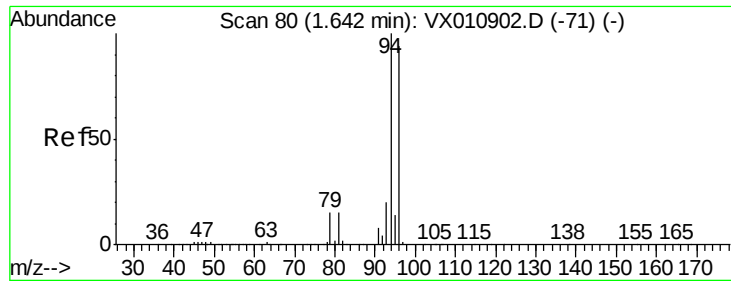
20

0

1.30 1.31 1.32 1.33

Time-->





#5

Bromomethane

Concen: 0.388 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

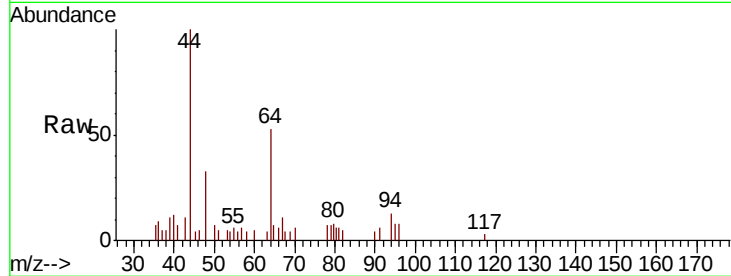
SU19-MSW0106

Tot Ion: 94 Resp: 428

Ion Ratio Lower Upper

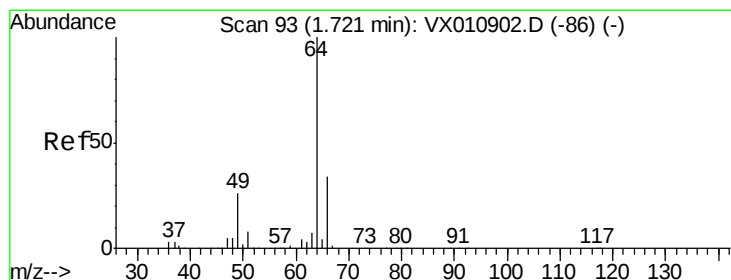
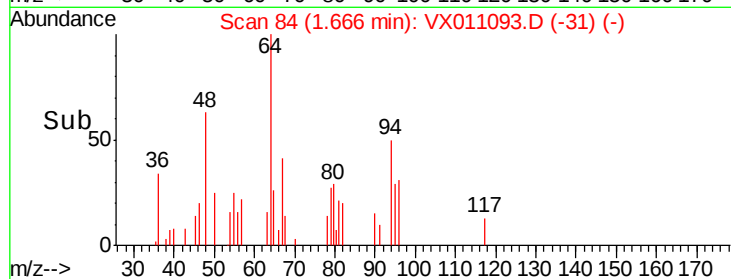
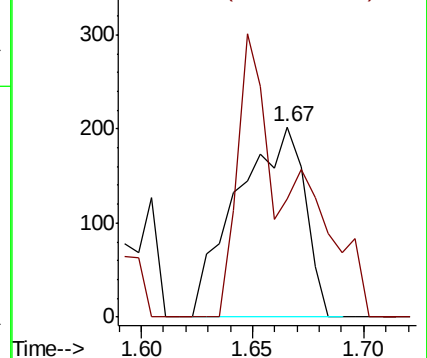
94 100

96 62.4 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.474 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.01 min

Lab File: VX011093.D

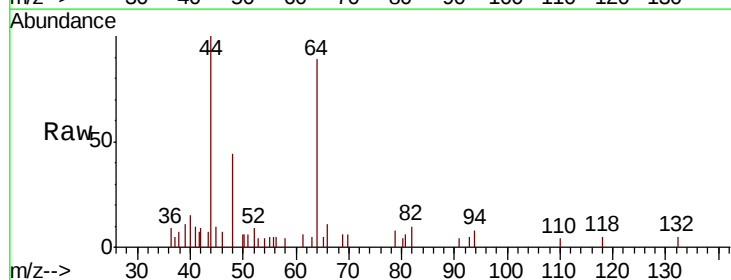
Acq: 26 Jul 2019 16:12

Tgt Ion: 64 Resp: 589

Ion Ratio Lower Upper

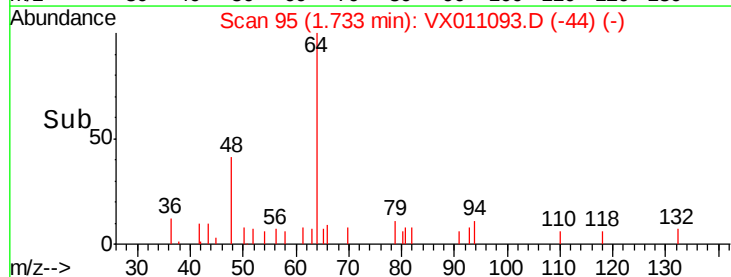
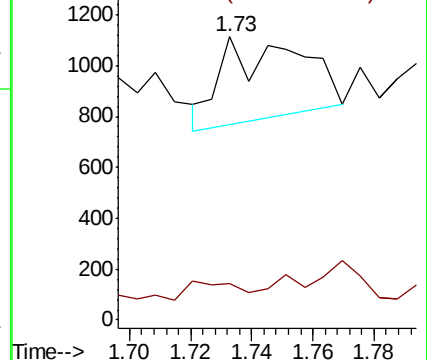
64 100

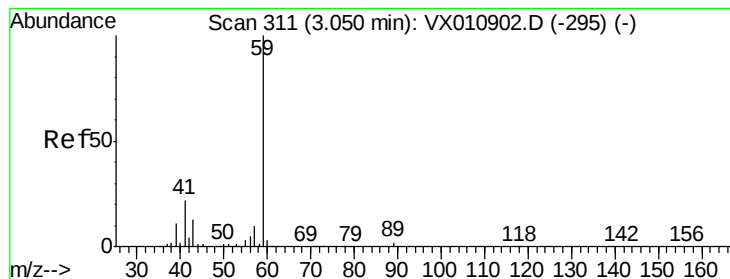
66 0.0 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



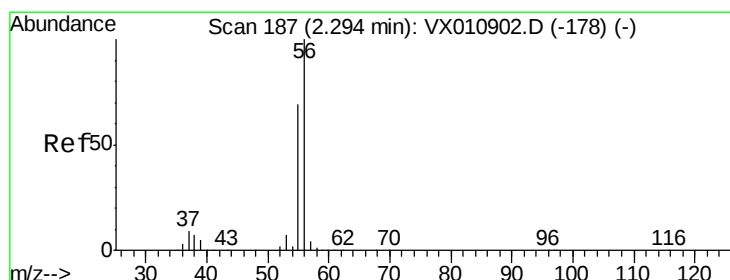
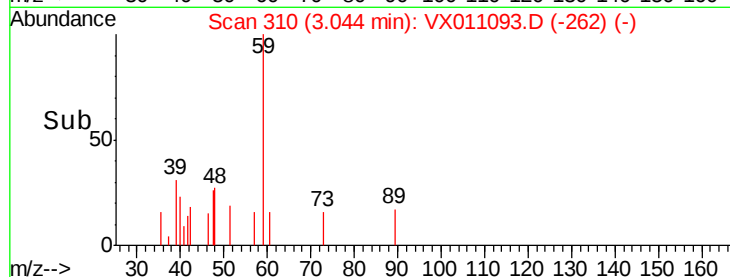
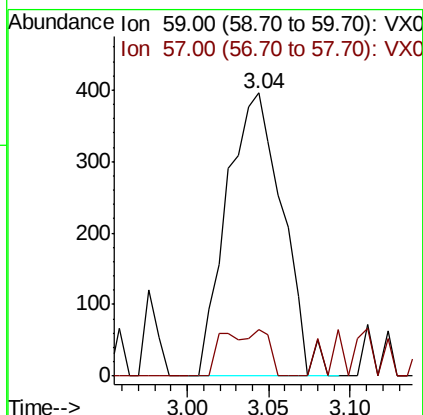
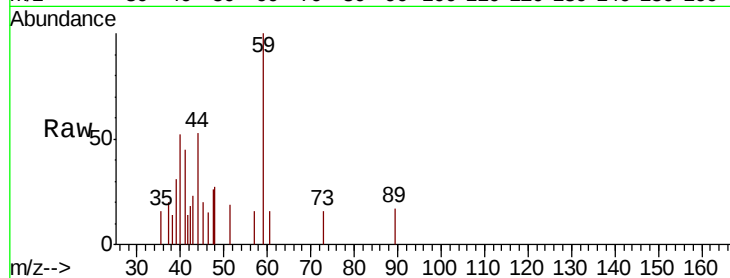


#11

Tert butyl alcohol
 Concen: 1.822 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. -0.01 min
 Lab File: VX011093.D
 Acq: 26 Jul 2019 16:12

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0106

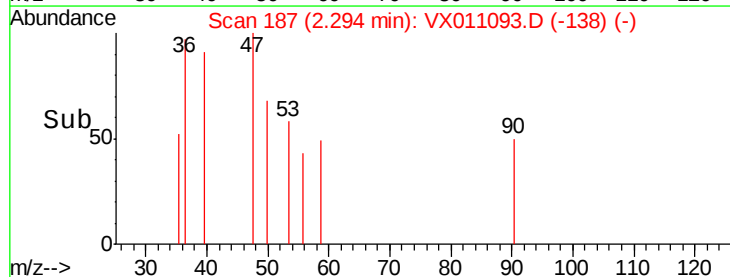
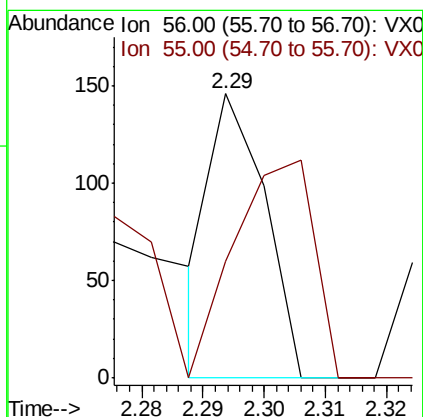
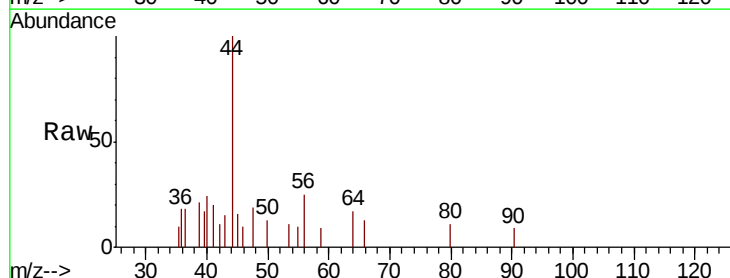
Tot Ion: 59 Resp: 941
 Ion Ratio Lower Upper
 59 100
 57 6.6 7.9 11.9#

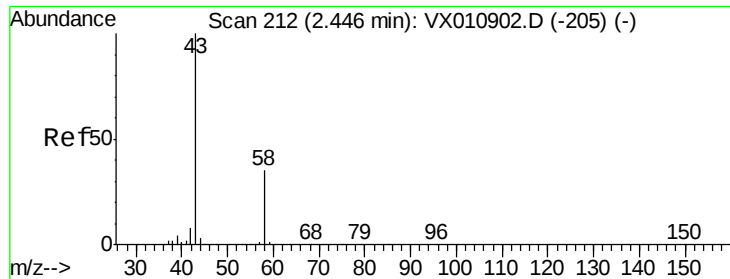


#13

Acrolein
 Concen: 0.302 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.00 min
 Lab File: VX011093.D
 Acq: 26 Jul 2019 16:12

Tgt Ion: 56 Resp: 90
 Ion Ratio Lower Upper
 56 100
 55 112.2 55.9 83.9#





#16

Acetone

Concen: 2.894 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

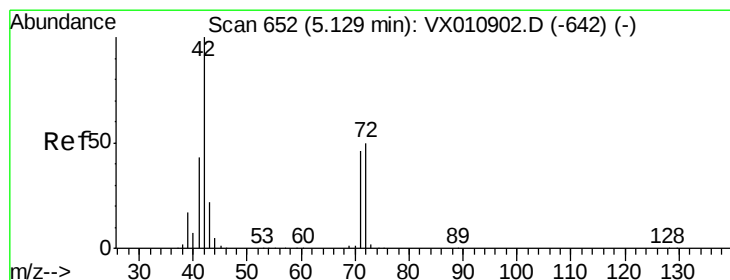
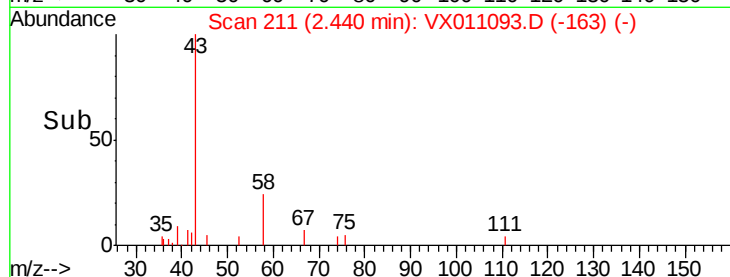
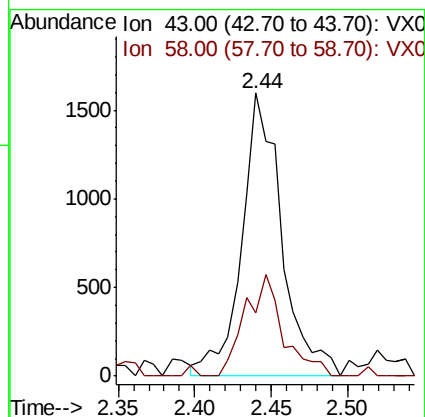
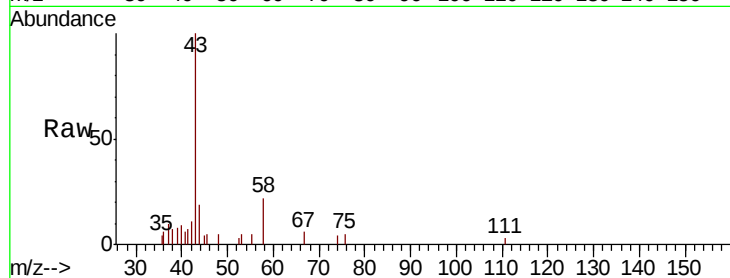
SU19-MSW0106

Tot Ion: 43 Resp: 2899

Ion Ratio Lower Upper

43 100

58 22.5 27.7 41.5#



#29

Tetrahydrofuran

Concen: 0.221 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

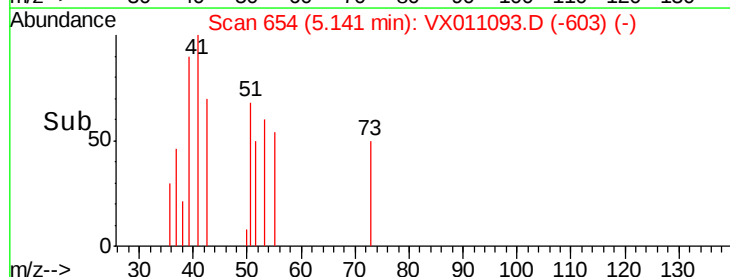
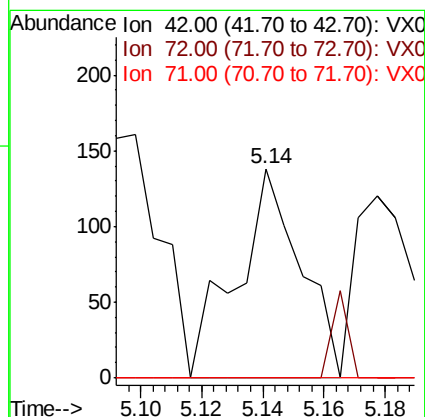
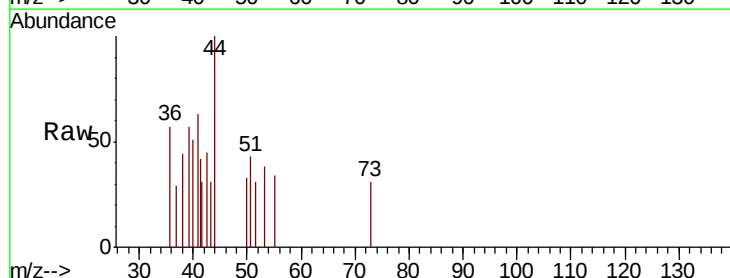
Tgt Ion: 42 Resp: 201

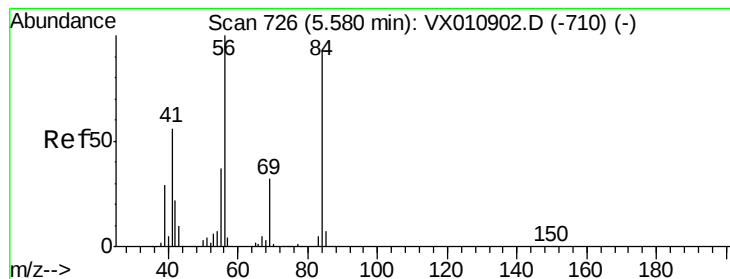
Ion Ratio Lower Upper

42 100

72 0.0 39.8 59.8#

71 0.0 37.0 55.4#





#31

Cyclohexane

Concen: 0.649 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0106

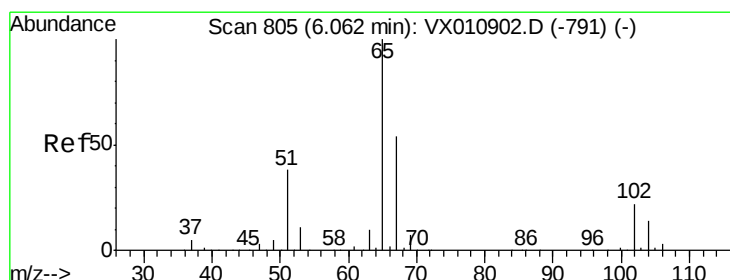
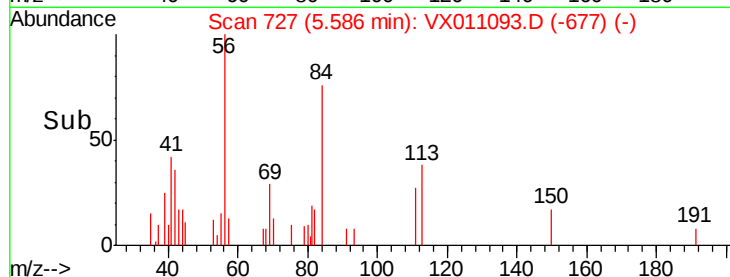
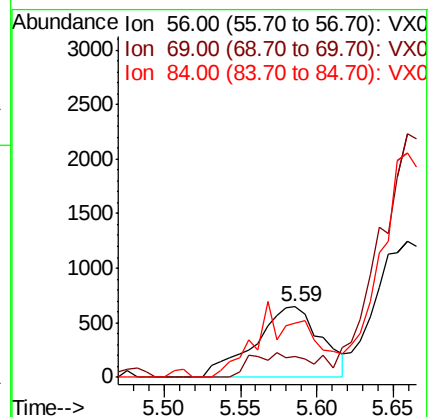
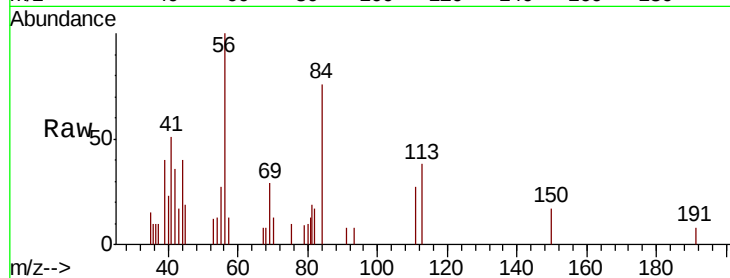
Tot Ion: 56 Resp: 1955

Ion Ratio Lower Upper

56 100

69 29.5 25.8 38.8

84 76.1 73.8 110.6



#33

1,2-Dichloroethane-d4

Concen: 51.895 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011093.D

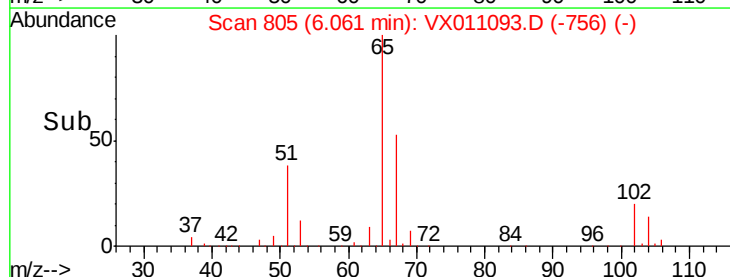
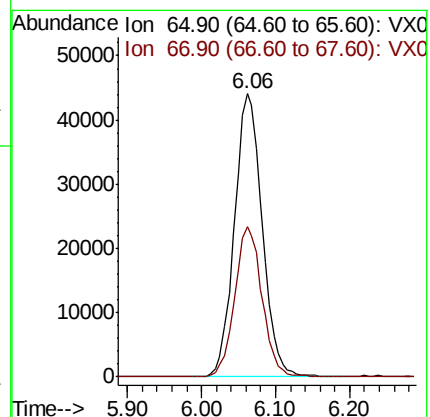
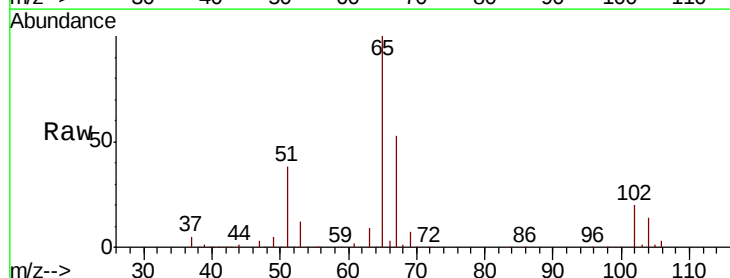
Acq: 26 Jul 2019 16:12

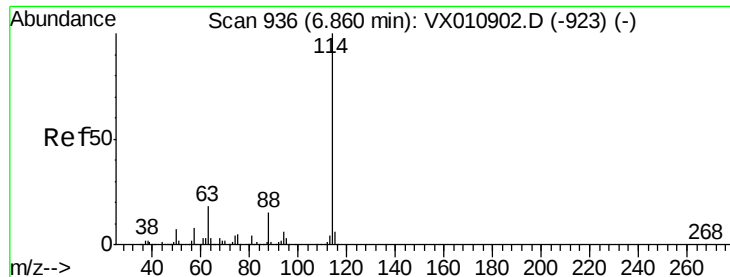
Tgt Ion: 65 Resp: 115103

Ion Ratio Lower Upper

65 100

67 52.1 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: VX011093.D

Acq: 26 Jul 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0106

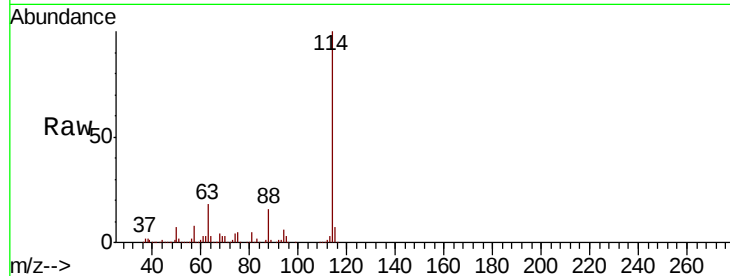
Tot Ion:114 Resp: 327957

Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.6

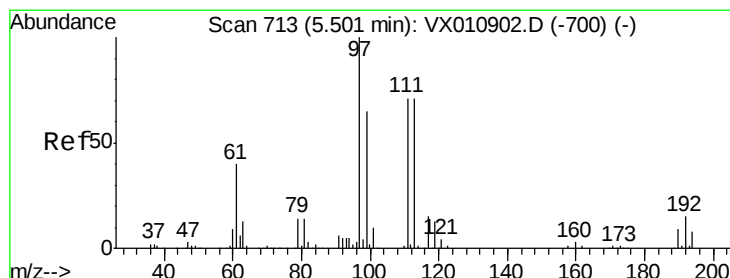
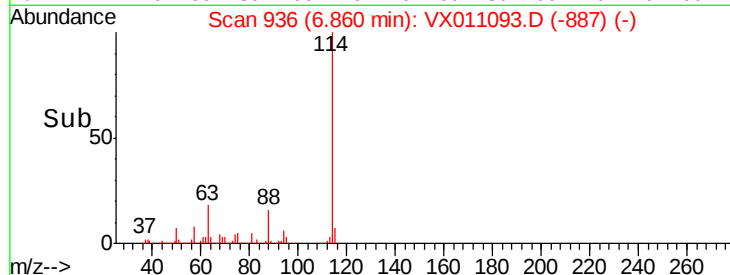
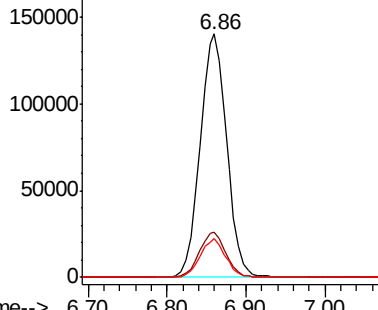
88 15.9 0.0 29.8



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: 49.584 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

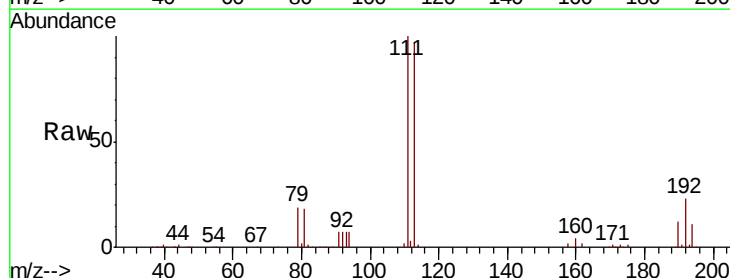
Tgt Ion:113 Resp: 103215

Ion Ratio Lower Upper

113 100

111 101.5 82.3 123.5

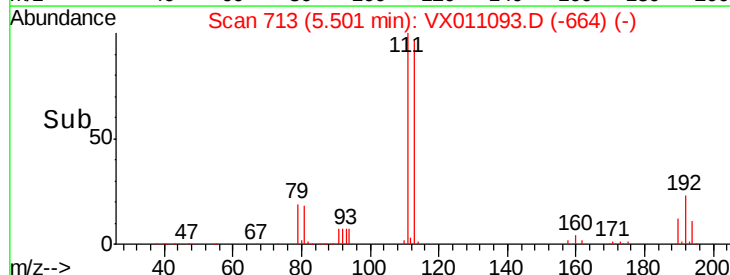
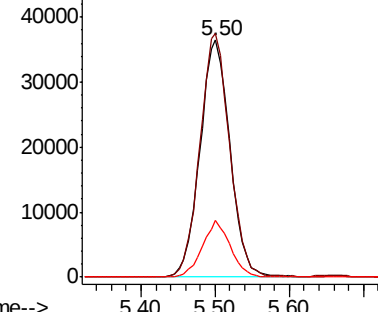
192 22.2 17.4 26.2

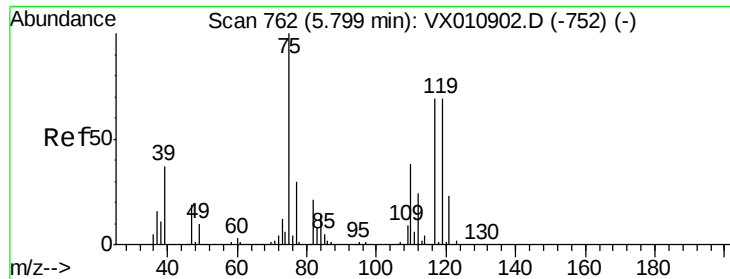


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.081 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0106

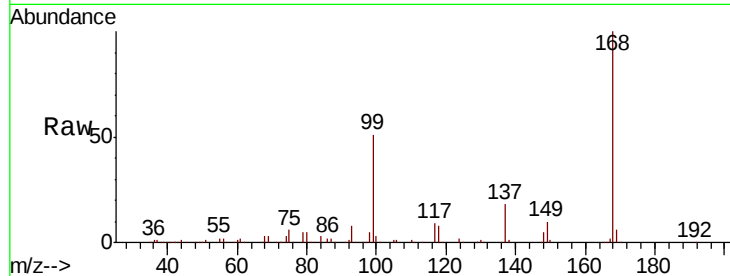
Tot Ion: 75 Resp: 13687

Ion Ratio Lower Upper

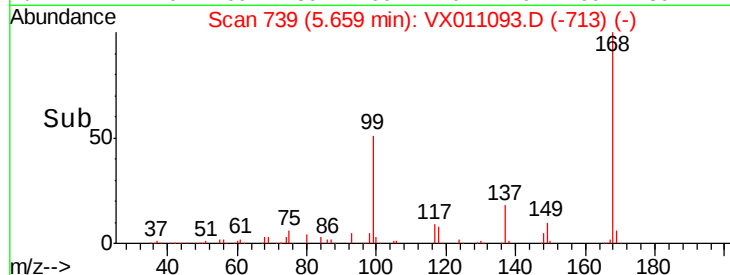
75 100

110 11.3 19.9 59.7#

77 0.2 25.0 37.4#



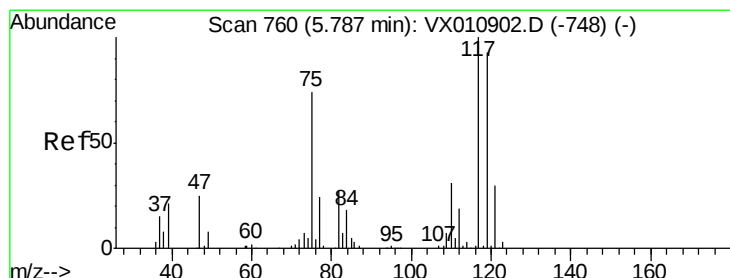
Abundance Ion 74.90 (74.60 to 75.60): VX011093.D (-713) (-)



Ion 109.90 (109.60 to 110.60): VX011093.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX011093.D (-713) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 7.108 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

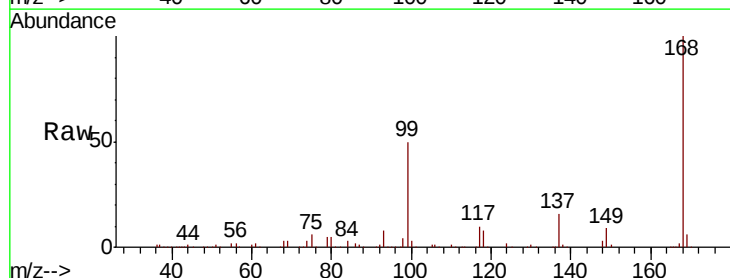
Tgt Ion: 117 Resp: 19952

Ion Ratio Lower Upper

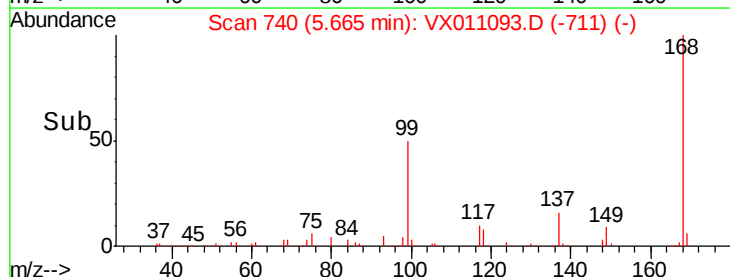
117 100

119 4.7 74.2 111.2#

121 0.0 24.2 36.2#



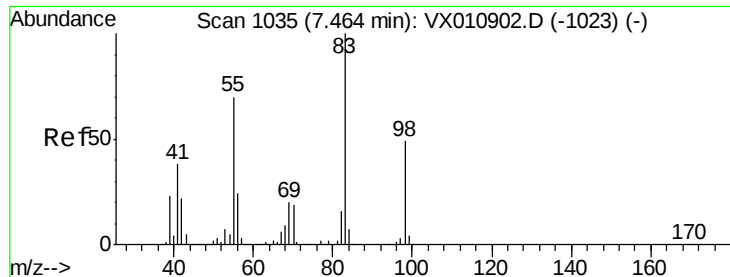
Abundance Ion 116.80 (116.50 to 117.50): VX011093.D (-711) (-)



Ion 118.80 (118.50 to 119.50): VX011093.D (-711) (-)

Ion 120.80 (120.50 to 121.50): VX011093.D (-711) (-)

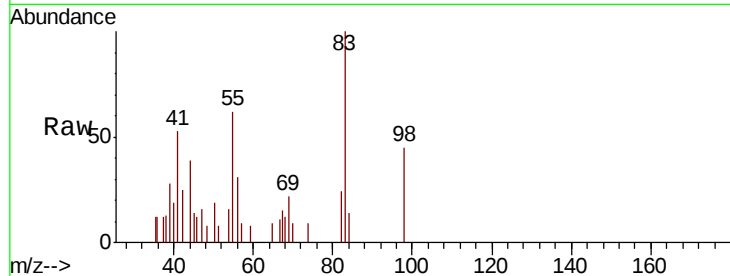
Time-->



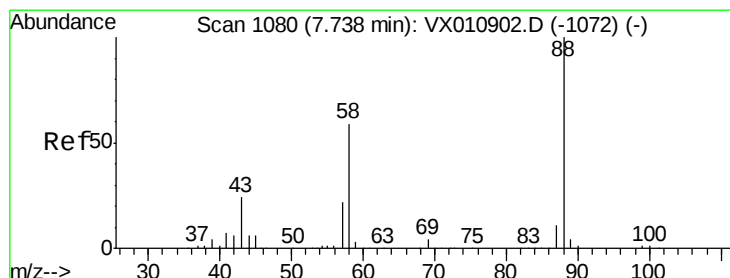
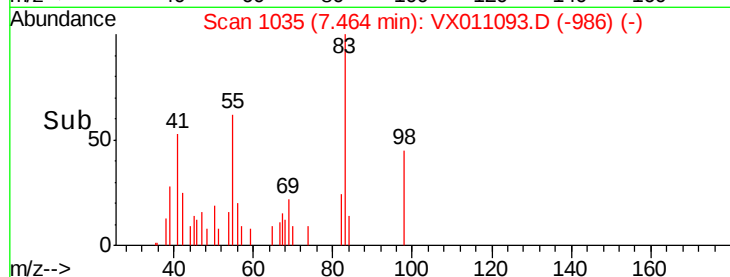
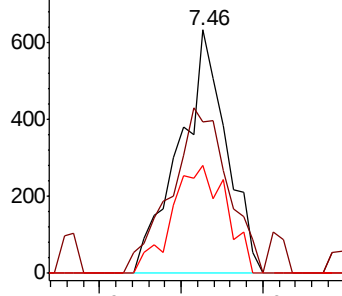
#39
Methylcyclohexane
Concen: 0.362 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX011093.D
Acq: 26 Jul 2019 16:12

Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0106

Tot Ion: 83 Resp: 1266
Ion Ratio Lower Upper
83 100
55 62.4 56.2 84.4
98 44.5 39.0 58.4

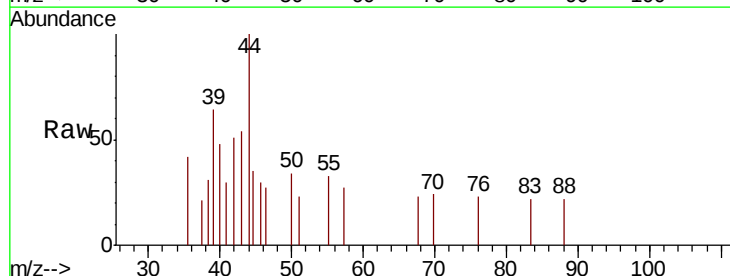


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

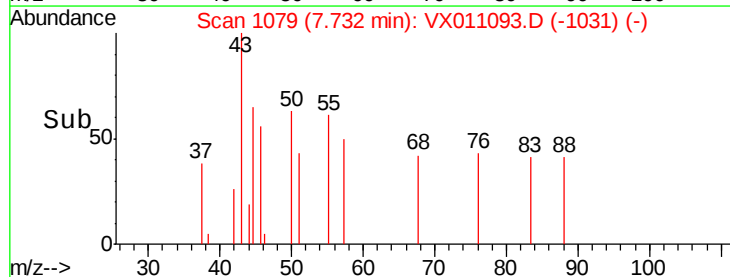
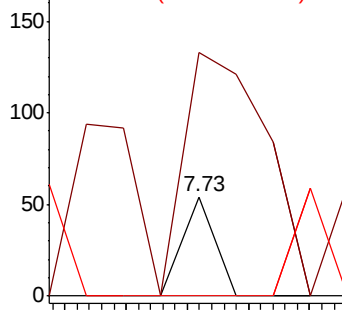


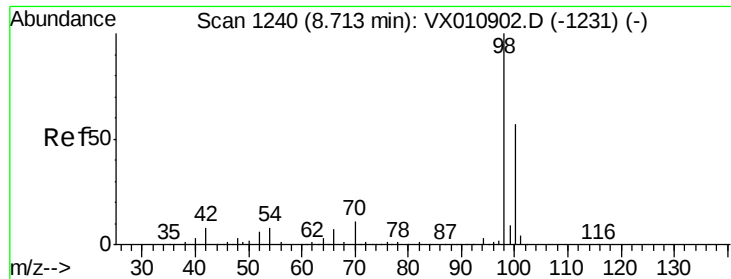
#49
1,4-Dioxane
Concen: 0.324 ug/l
RT: 7.73 min Scan# 1079
Delta R.T. -0.01 min
Lab File: VX011093.D
Acq: 26 Jul 2019 16:12

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 620.0 22.9 34.3#
58 0.0 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: 51.234 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

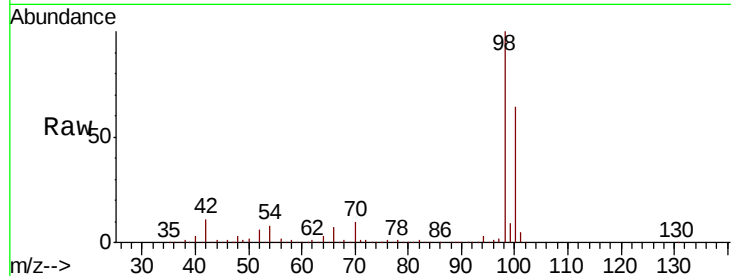
SU19-MSW0106

Tot Ion: 98 Resp: 400003

Ion Ratio Lower Upper

98 100

100 63.5 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

150000

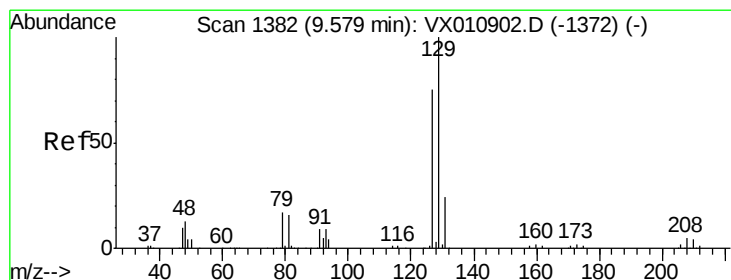
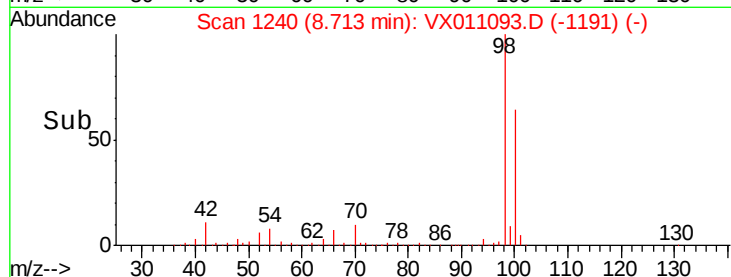
100000

50000

0

Time-->

8.60 8.70 8.80 8.90



#60

Dibromochloromethane

Concen: 2.652 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX011093.D

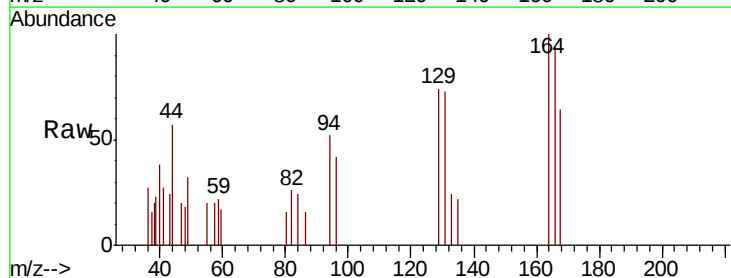
Acq: 26 Jul 2019 16:12

Tgt Ion:129 Resp: 336

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

9.34

250

200

150

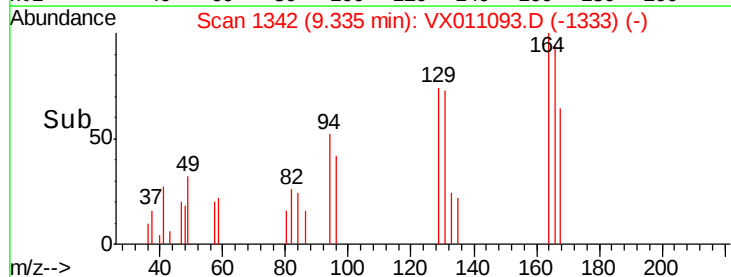
100

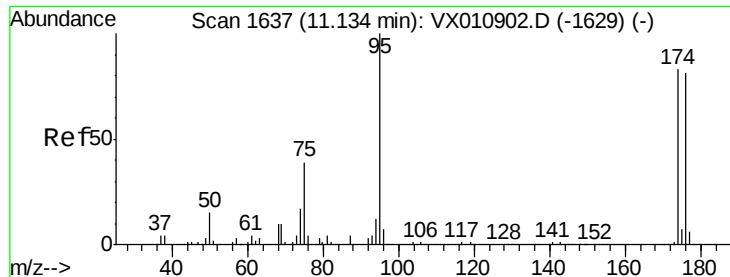
50

0

Time-->

9.30 9.32 9.34 9.36





#62

4-Bromofluorobenzene

Concen: 48.437 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0106

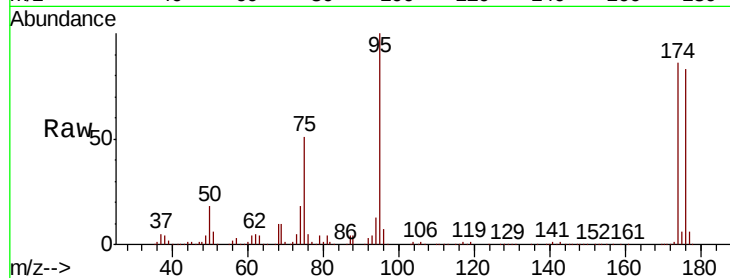
Tot Ion: 95 Resp: 139001

Ion Ratio Lower Upper

95 100

174 92.9 0.0 180.6

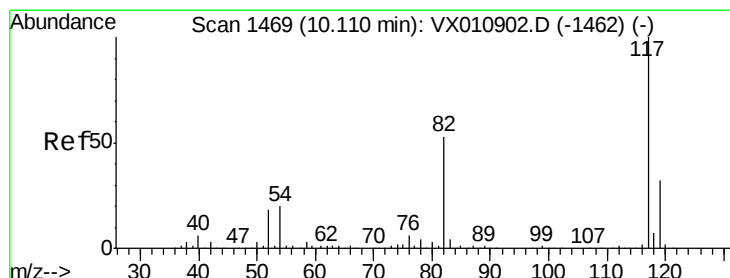
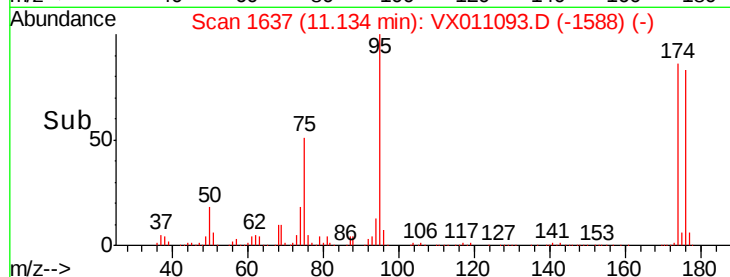
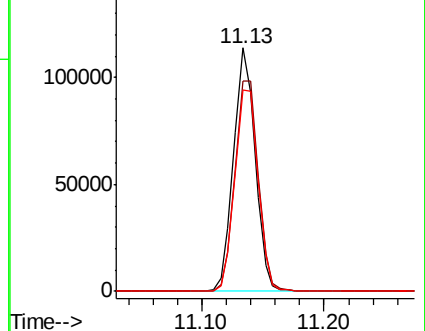
176 89.3 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX011093.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011093.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011093.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

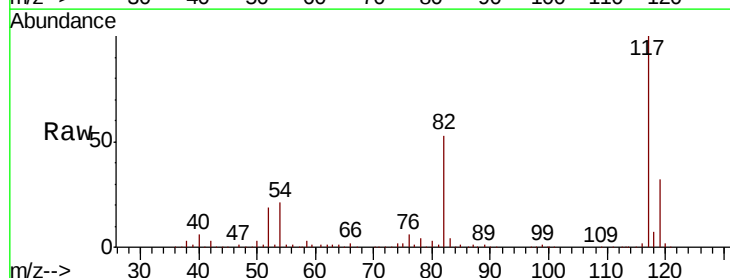
Tgt Ion: 117 Resp: 306921

Ion Ratio Lower Upper

117 100

82 52.7 42.6 63.8

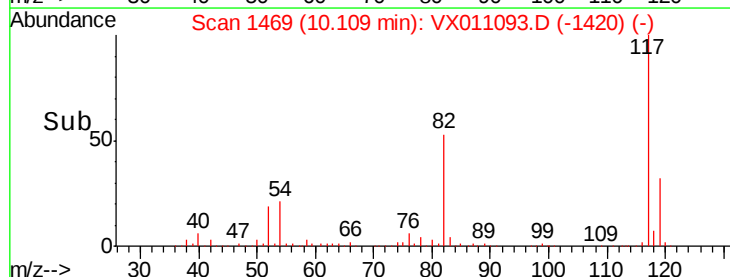
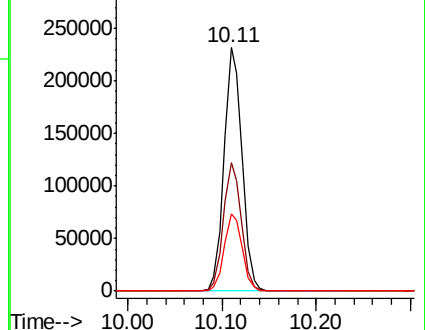
119 31.8 25.9 38.9

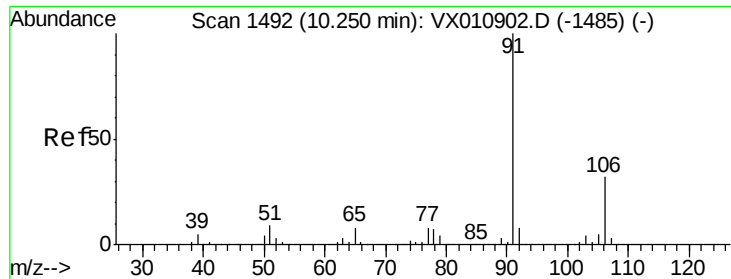


Abundance Ion 116.90 (116.60 to 117.60): VX011093.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011093.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011093.D (-1420) (-)

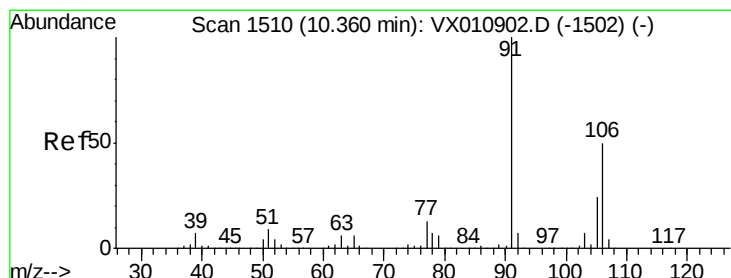
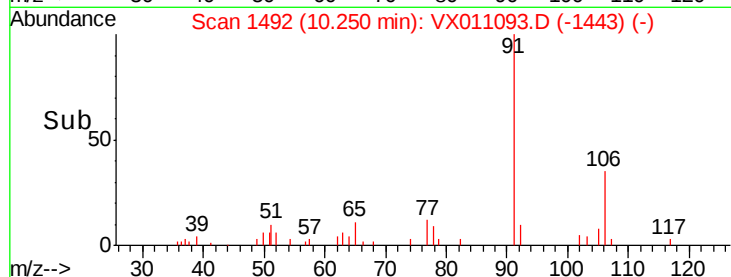
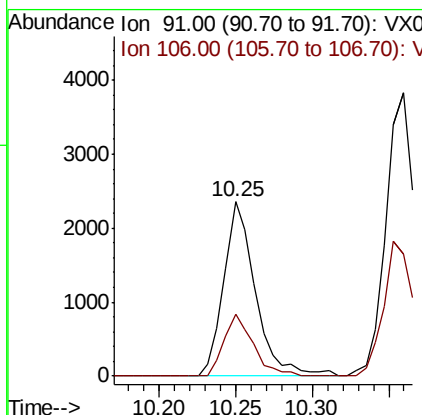
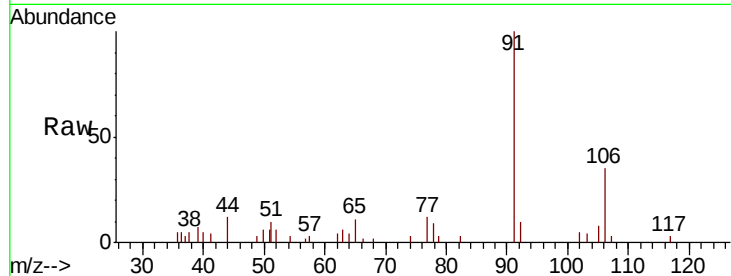




#67
Ethyl Benzene
Concen: 0.316 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX011093.D
Acq: 26 Jul 2019 16:12

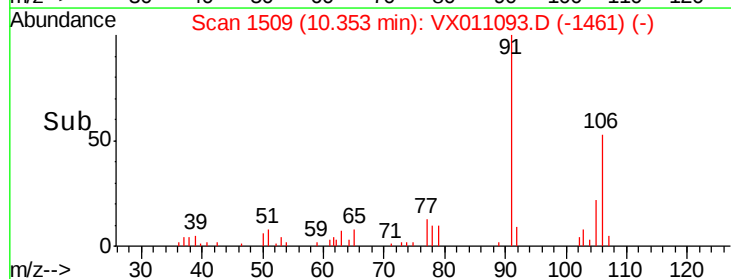
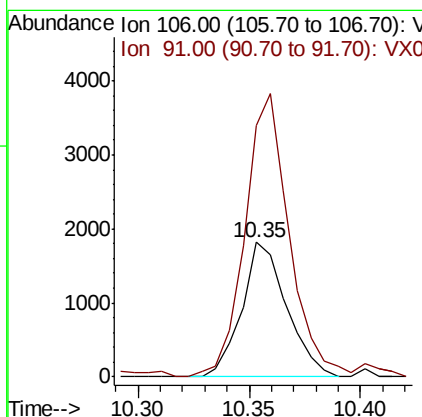
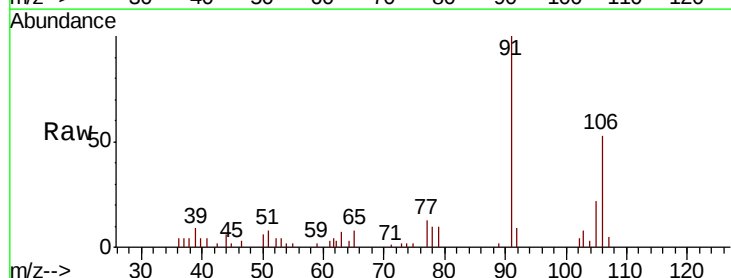
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0106

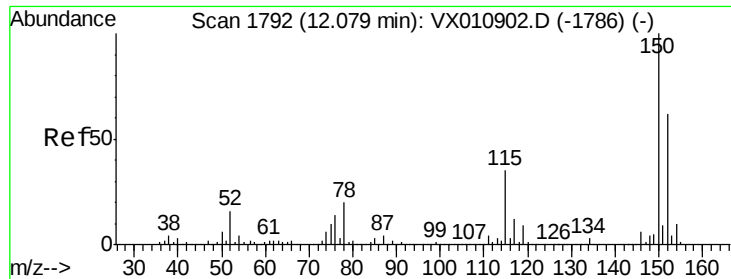
Tot Ion: 91 Resp: 3390
Ion Ratio Lower Upper
91 100
106 35.3 25.4 38.2



#68
m/p-Xylenes
Concen: 0.620 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX011093.D
Acq: 26 Jul 2019 16:12

Tgt Ion: 106 Resp: 2550
Ion Ratio Lower Upper
106 100
91 207.3 160.1 240.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0106

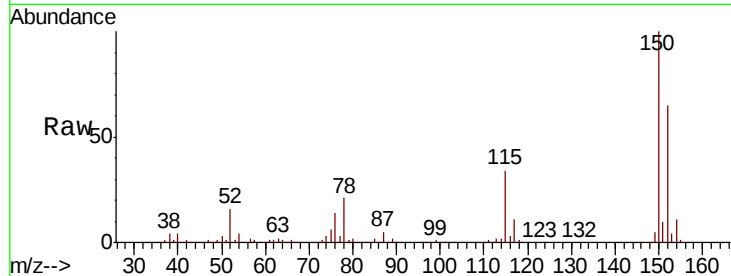
Tot Ion:152 Resp: 145212

Ion Ratio Lower Upper

152 100

115 54.6 39.7 119.1

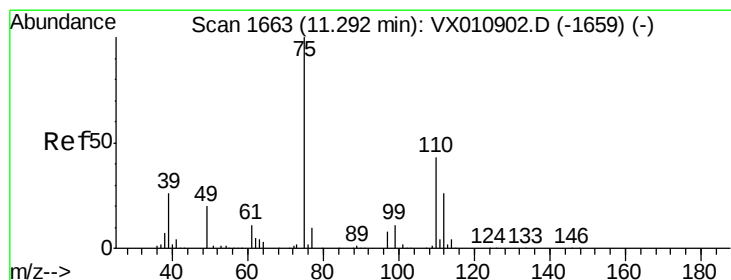
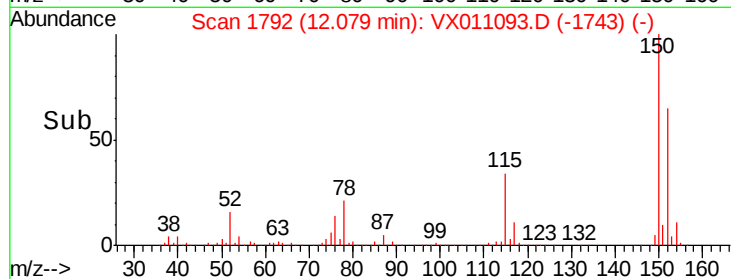
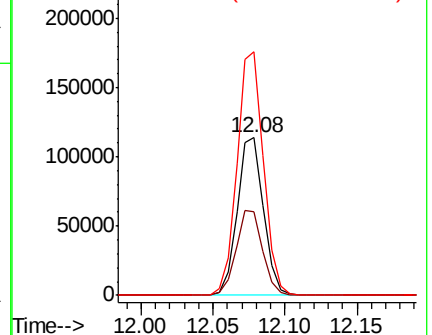
150 155.8 0.0 345.6



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: 26.847 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011093.D

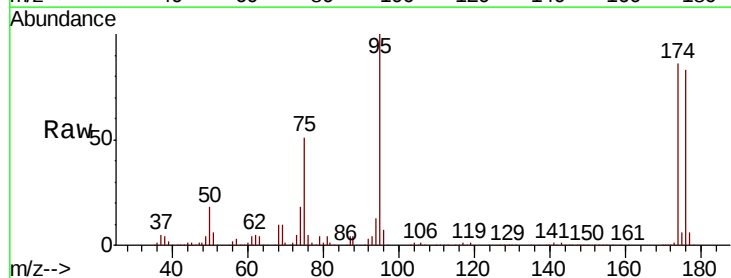
Acq: 26 Jul 2019 16:12

Tgt Ion: 75 Resp: 70350

Ion Ratio Lower Upper

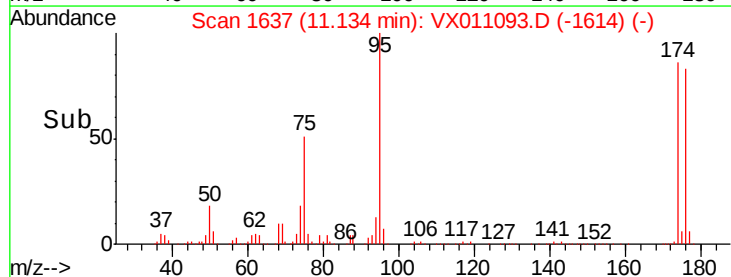
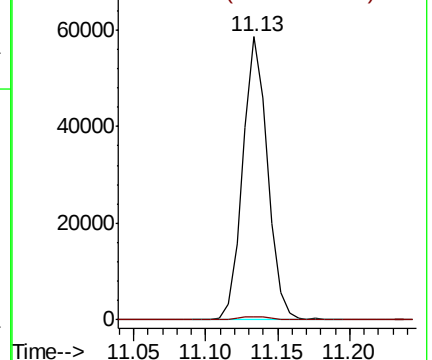
75 100

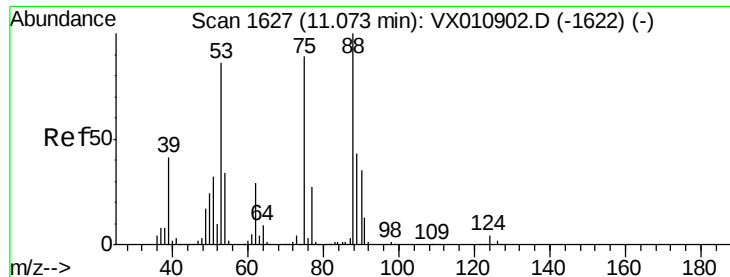
77 1.3 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.584 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011093.D

Acq: 26 Jul 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0106

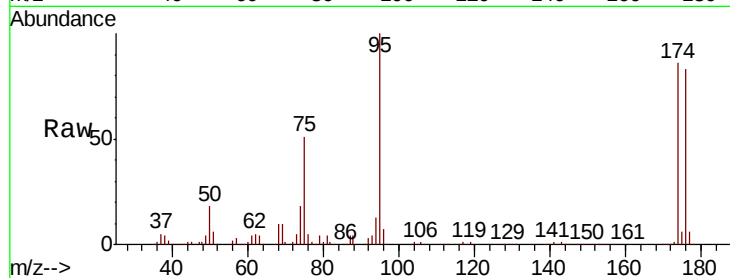
Tot Ion: 75 Resp: 70350

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

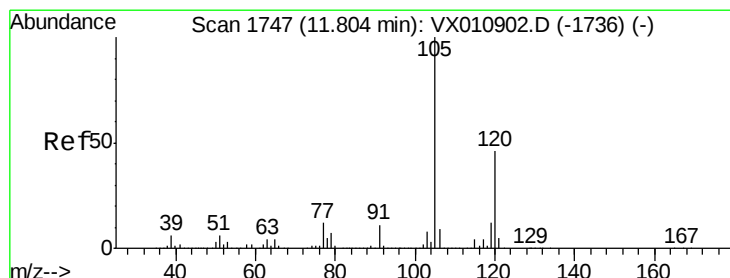
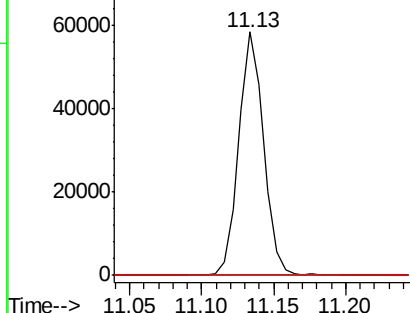
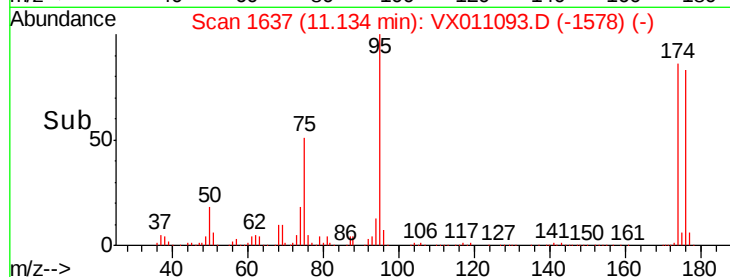
89 0.0 38.5 57.7#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.380 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX011093.D

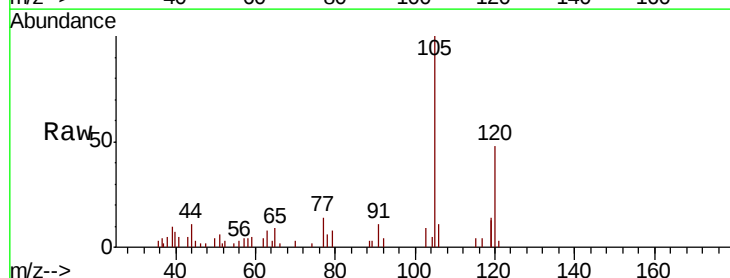
Acq: 26 Jul 2019 16:12

Tgt Ion:105 Resp: 3140

Ion Ratio Lower Upper

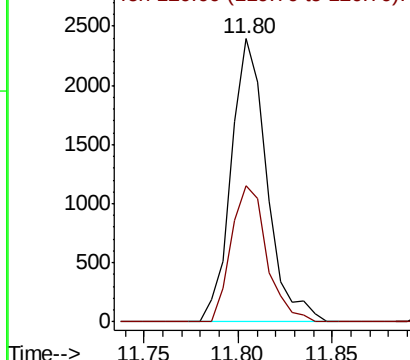
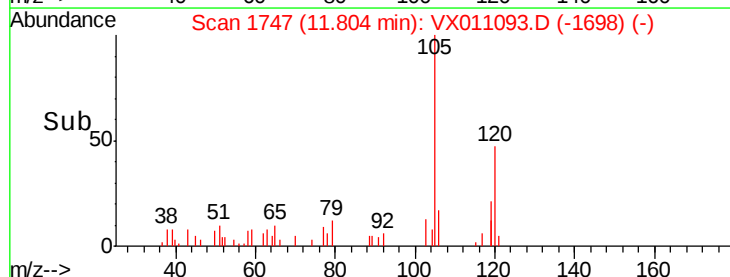
105 100

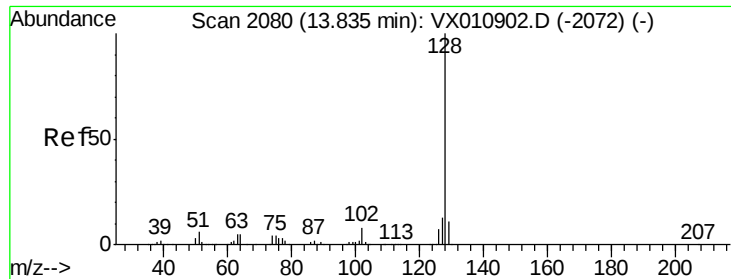
120 48.2 22.9 68.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

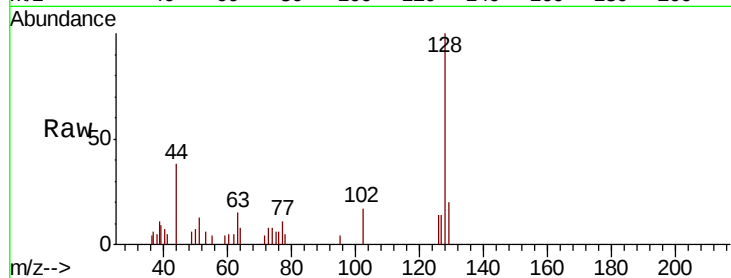




#95
Naphthalene
Concen: 0.225 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX011093.D
Acq: 26 Jul 2019 16:12

Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0106

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.3	10.4	15.6
129	12.2	8.9	13.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

