

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071819\
 Data File : VX010956.D
 Acq On : 18 Jul 2019 14:12
 Operator : JC/SP
 Sample : K3834-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-6

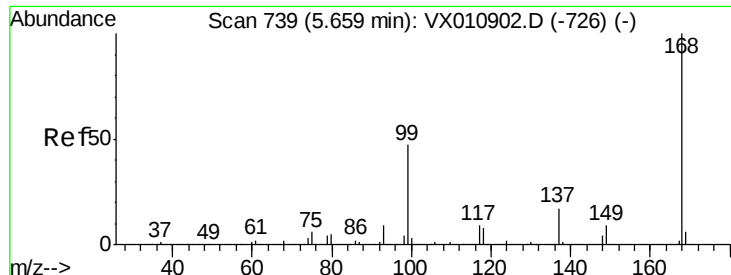
Quant Time: Jul 19 01:32:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	213300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	333955	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	300172	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	130313	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	112274	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
35) Dibromofluoromethane	5.49	113	102565	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	
50) Toluene-d8	8.71	98	398066	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
62) 4-Bromofluorobenzene	11.13	95	132795	45.44	ug/l	0.00
Spiked Amount			Recovery	=	90.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	70	0.577	ug/l #	43
3) Chloromethane	1.33	50	741	0.378	ug/l #	44
5) Bromomethane	1.65	94	546	0.484	ug/l #	77
6) Chloroethane	1.69	64	1696	1.334	ug/l #	48
11) Tert butyl alcohol	3.04	59	2422	4.583	ug/l	96
13) Acrolein	2.30	56	83	0.272	ug/l #	41
16) Acetone	2.45	43	3067	2.993	ug/l	98
31) Cyclohexane	5.65	56	4288	1.392	ug/l #	32
36) 1,1-Dichloropropene	5.66	75	13661	4.980	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19879	6.954	ug/l #	17
49) 1,4-Dioxane	7.61	88	22	0.350	ug/l #	1
60) Dibromochloromethane	9.33	129	63	2.551	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	65900	28.024	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	65900	69.329	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

Instrument :

MSVOA_X

ClientSampled :

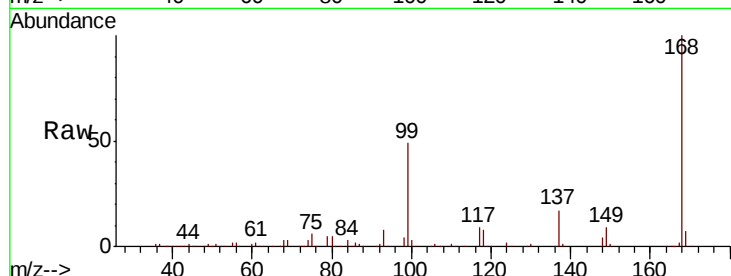
TW-6

Tot Ion:168 Resp: 213300

Ion Ratio Lower Upper

168 100

99 48.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

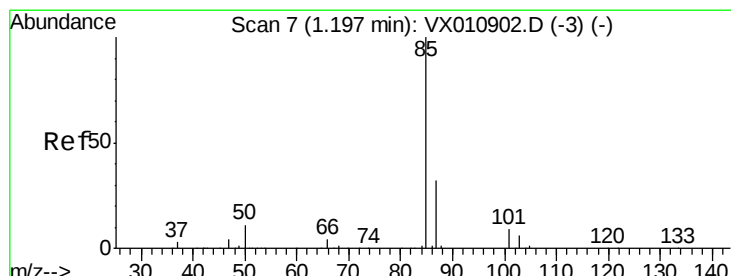
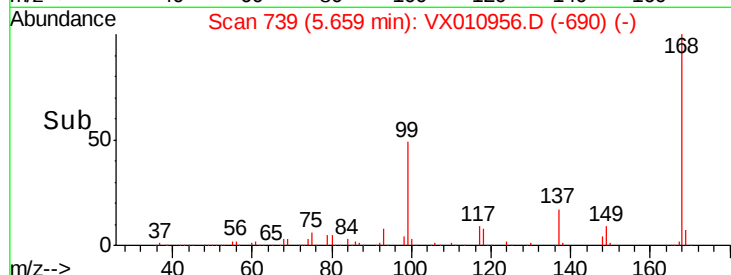
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.577 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX010956.D

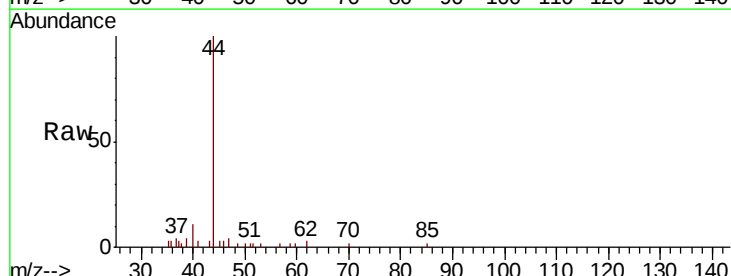
Acq: 18 Jul 2019 14:12

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

80

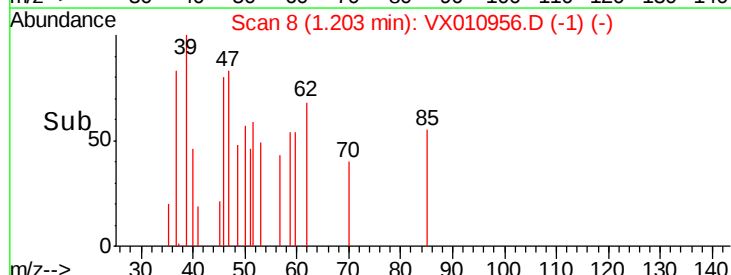
60

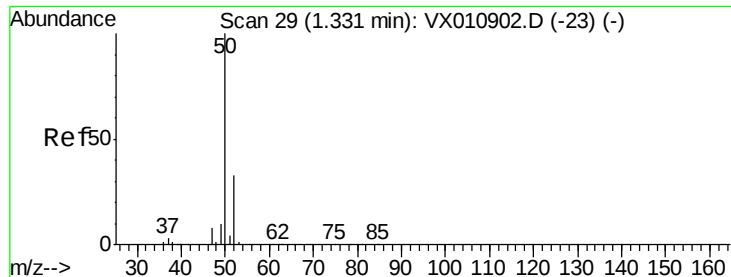
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.378 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

Instrument :

MSVOA_X

ClientSampled :

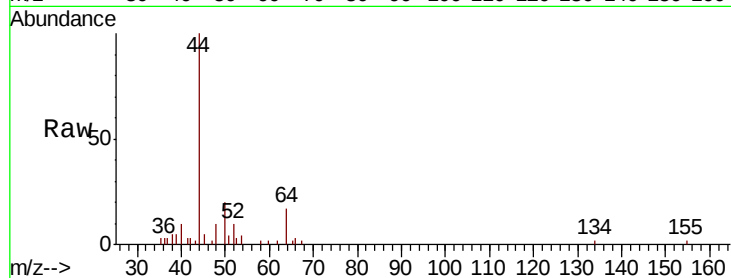
TW-6

Tot Ion: 50 Resp: 741

Ion Ratio Lower Upper

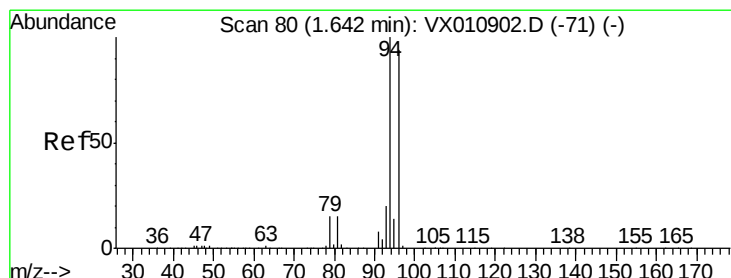
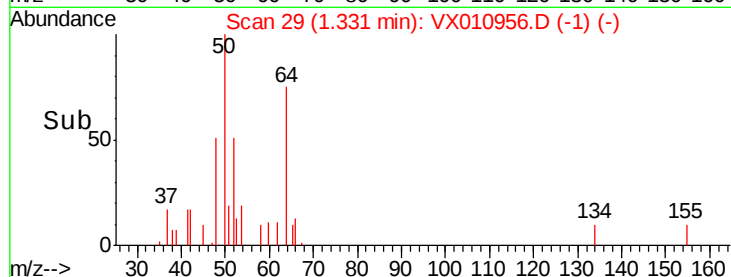
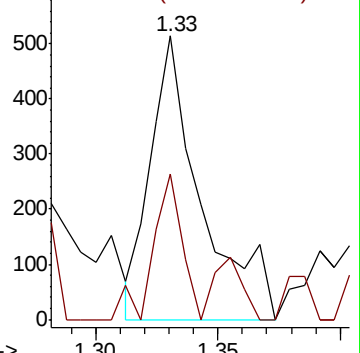
50 100

52 64.6 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: 0.484 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX010956.D

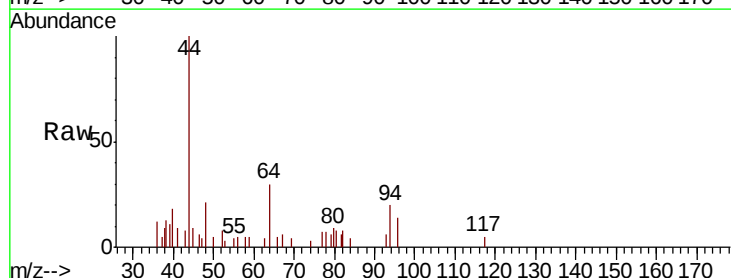
Acq: 18 Jul 2019 14:12

Tgt Ion: 94 Resp: 546

Ion Ratio Lower Upper

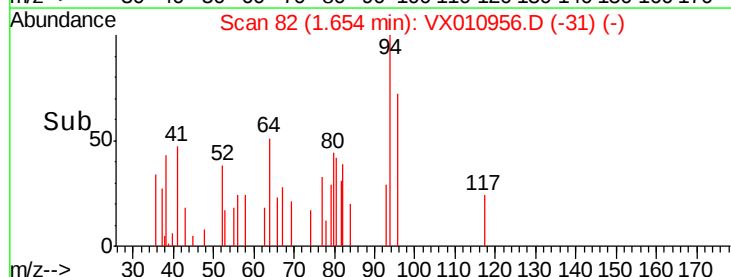
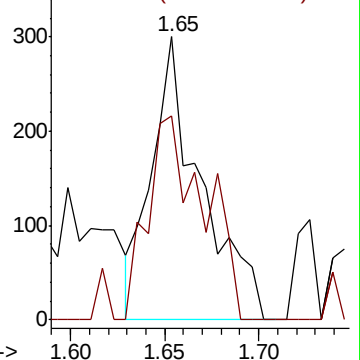
94 100

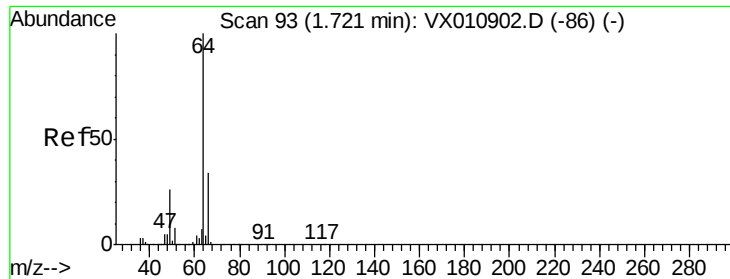
96 72.0 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.334 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.03 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

Instrument :

MSVOA_X

ClientSampled :

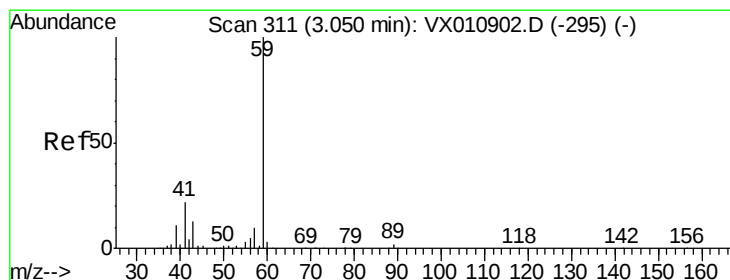
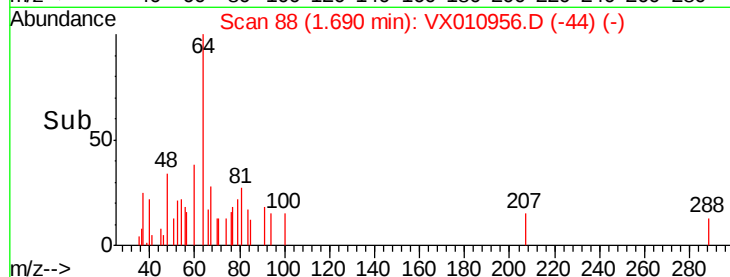
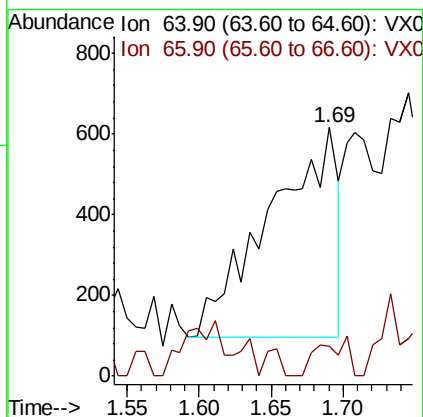
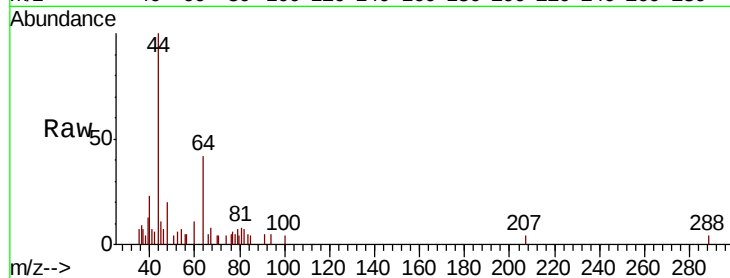
TW-6

Tot Ion: 64 Resp: 1696

Ion Ratio Lower Upper

64 100

66 4.0 27.0 40.6#



#11

Tert butyl alcohol

Concen: 4.583 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX010956.D

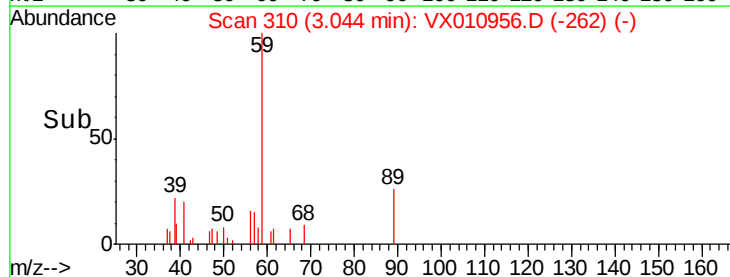
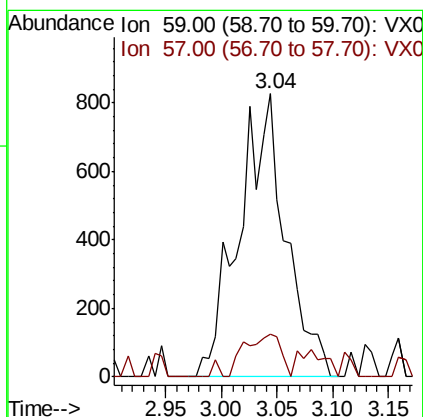
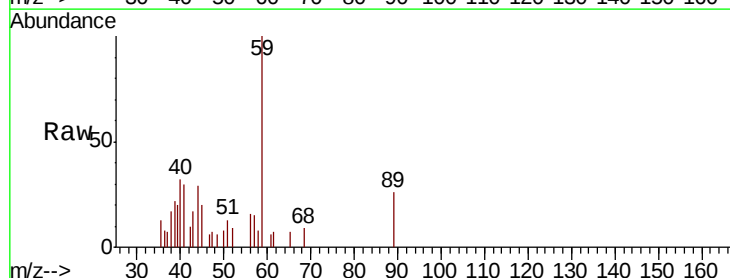
Acq: 18 Jul 2019 14:12

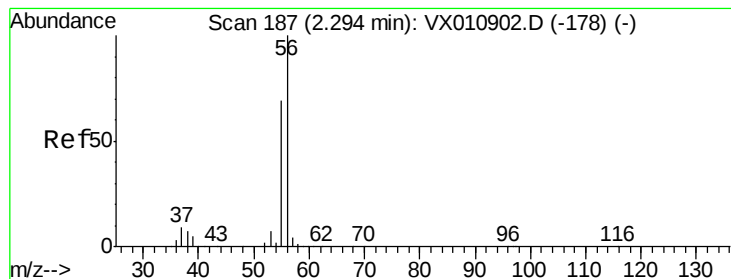
Tgt Ion: 59 Resp: 2422

Ion Ratio Lower Upper

59 100

57 11.5 7.9 11.9





#13

Acrolein

Concen: 0.272 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

Instrument :

MSVOA_X

ClientSampleId :

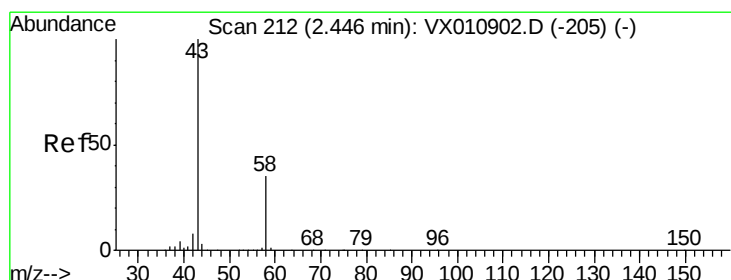
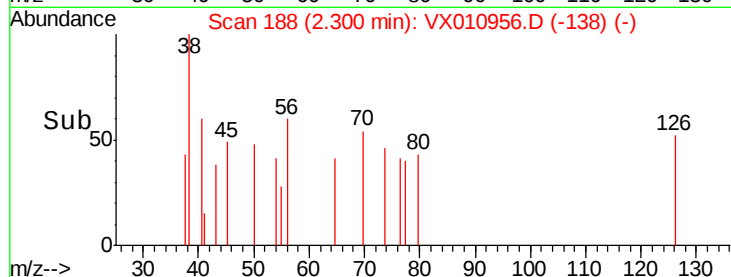
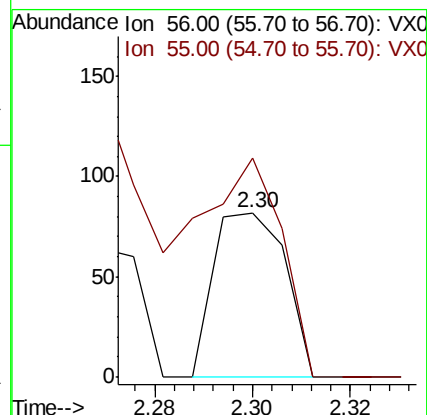
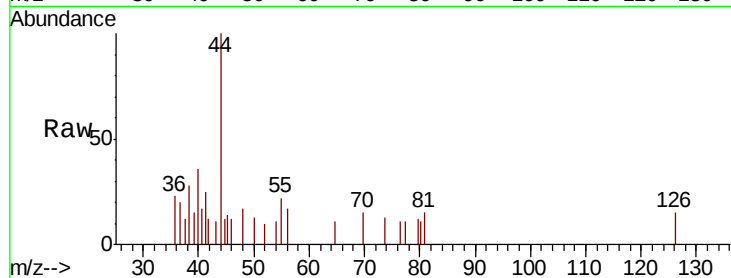
TW-6

Tot Ion: 56 Resp: 83

Ion Ratio Lower Upper

56 100

55 118.1 55.9 83.9#



#16

Acetone

Concen: 2.993 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010956.D

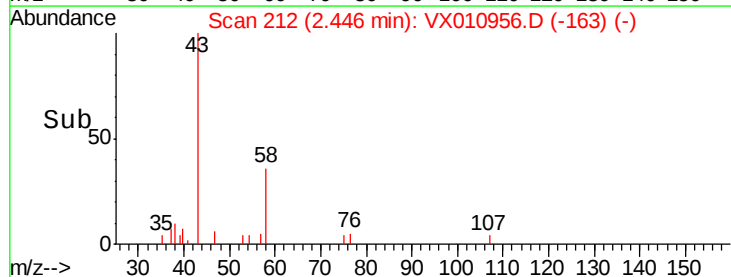
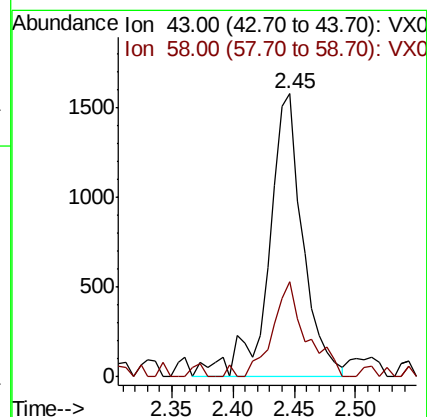
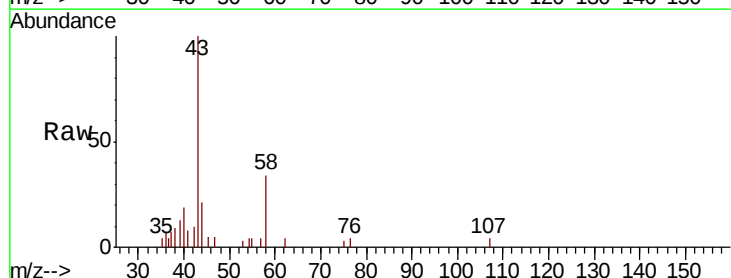
Acq: 18 Jul 2019 14:12

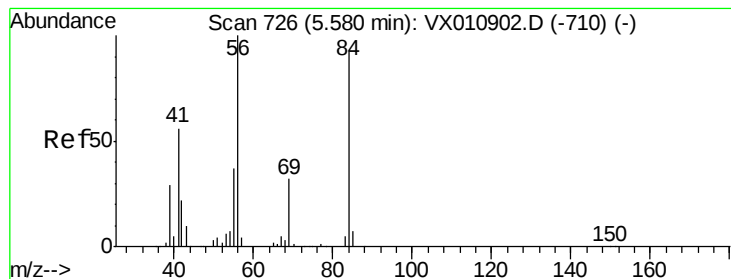
Tgt Ion: 43 Resp: 3067

Ion Ratio Lower Upper

43 100

58 33.6 27.7 41.5





#31

Cyclohexane

Concen: 1.392 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

Instrument :

MSVOA_X

ClientSampleId :

TW-6

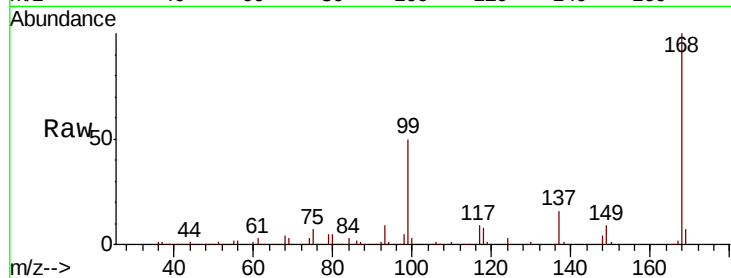
Tot Ion: 56 Resp: 4288

Ion Ratio Lower Upper

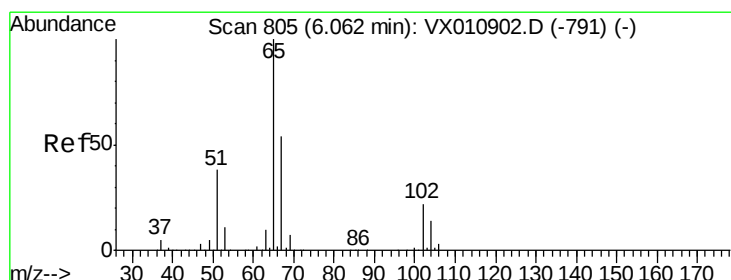
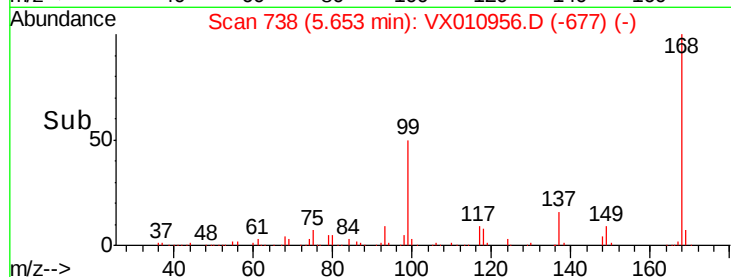
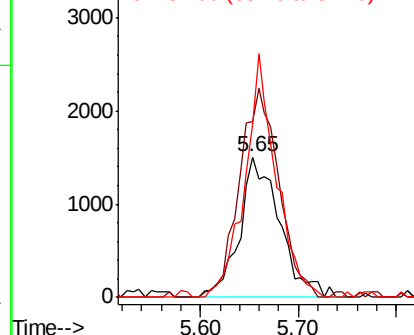
56 100

69 125.4 25.8 38.8#

84 123.9 73.8 110.6#



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



#33

1,2-Dichloroethane-d4

Concen: 49.478 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010956.D

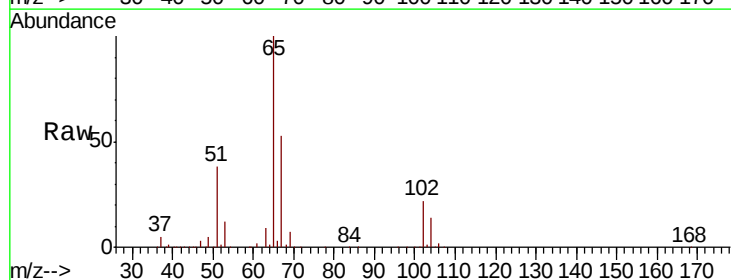
Acq: 18 Jul 2019 14:12

Tgt Ion: 65 Resp: 112274

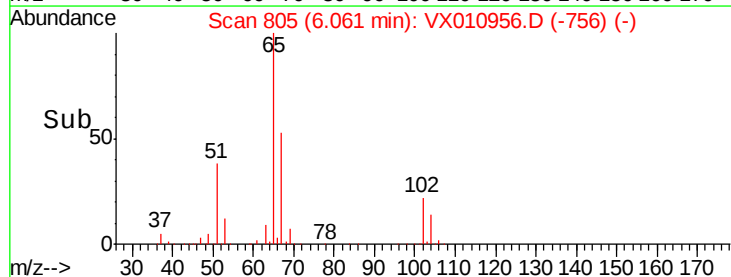
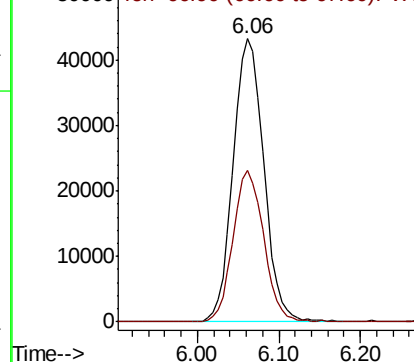
Ion Ratio Lower Upper

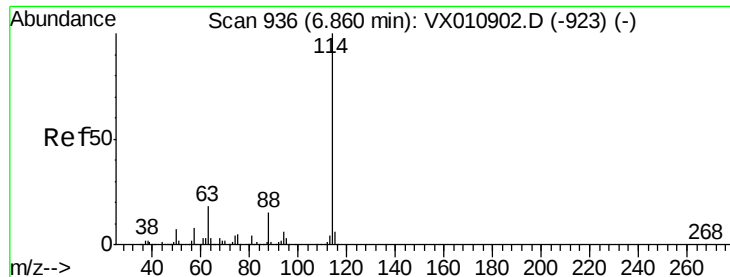
65 100

67 53.4 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

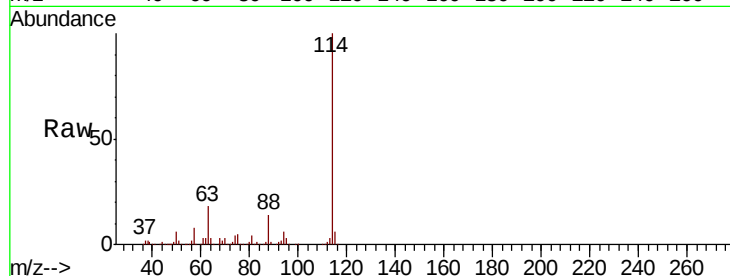




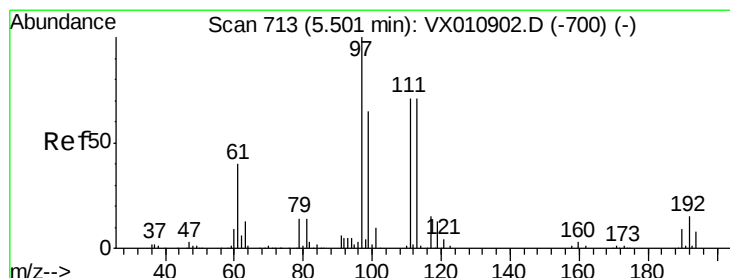
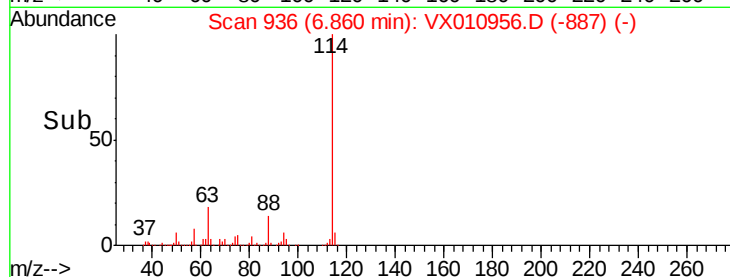
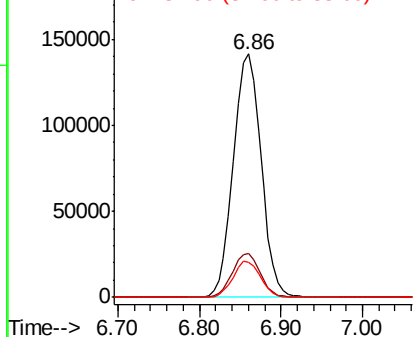
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX010956.D
Acq: 18 Jul 2019 14:12

Instrument :
MSVOA_X
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
114	100		
63	17.9	0.0	35.6
88	14.4	0.0	29.8

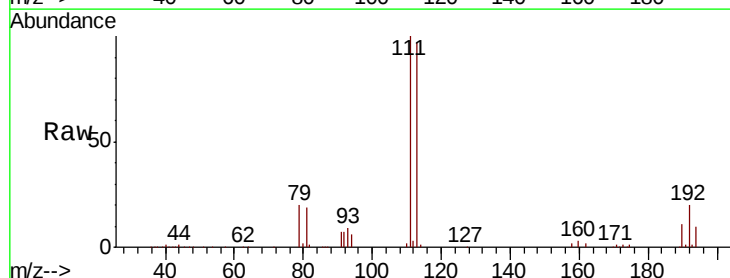


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

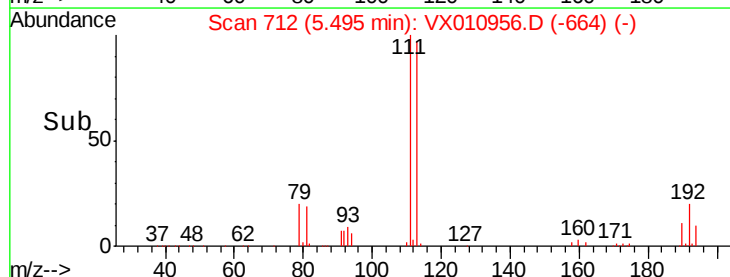
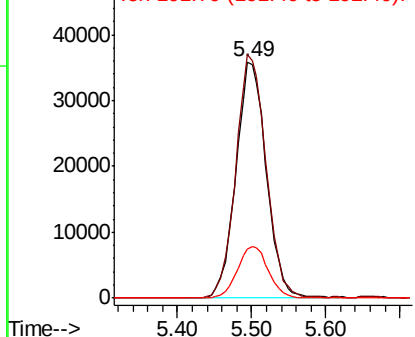


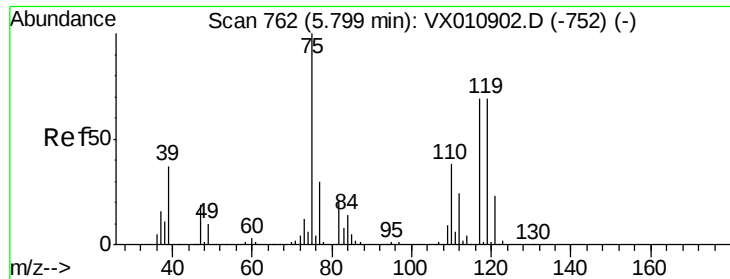
#35
Dibromofluoromethane
Concen: 48.387 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.01 min
Lab File: VX010956.D
Acq: 18 Jul 2019 14:12

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.3	123.5
192	22.3	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: 4.980 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

Instrument :

MSVOA_X

ClientSampleId :

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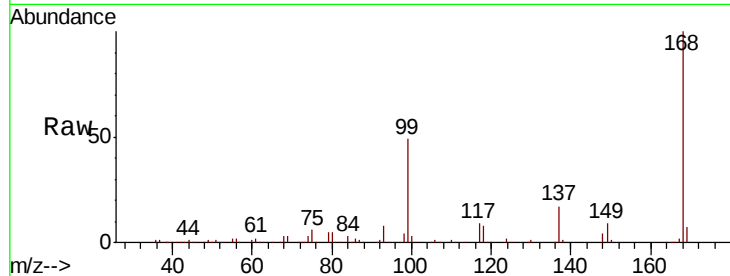
Tot Ion: 75 Resp: 13661

Ion Ratio Lower Upper

75 100

110 11.4 19.9 59.7#

77 0.3 25.0 37.4#



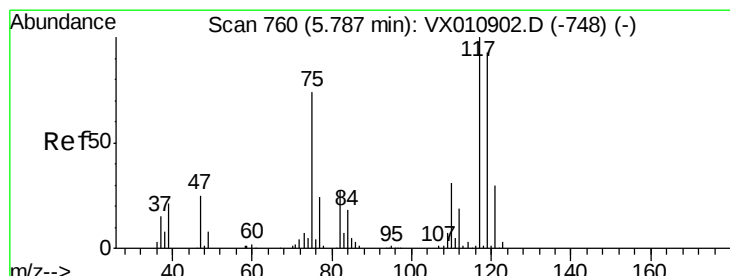
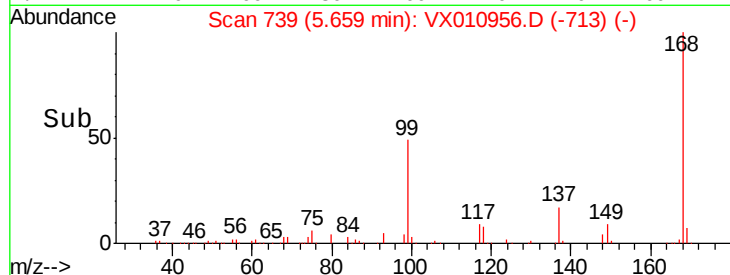
Abundance Ion 74.90 (74.60 to 75.60): VX010902.D (-752) (-)

Ion 109.90 (109.60 to 110.60): VX010902.D (-752) (-)

Ion 76.90 (76.60 to 77.60): VX010902.D (-752) (-)

5.66

Time-->



#38

Carbon Tetrachloride

Concen: 6.954 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

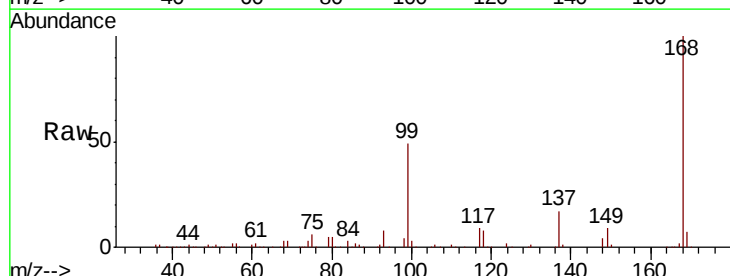
Tgt Ion: 117 Resp: 19879

Ion Ratio Lower Upper

117 100

119 4.9 74.2 111.2#

121 0.0 24.2 36.2#



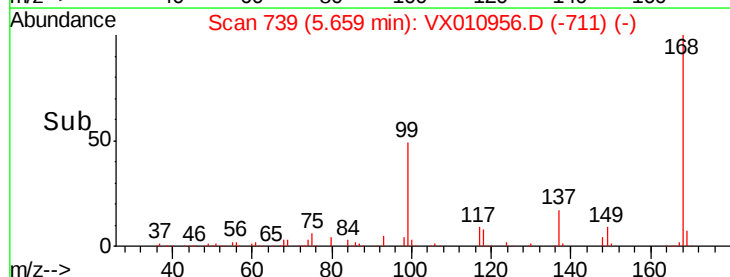
Abundance Ion 116.80 (116.50 to 117.50): VX010902.D (-748) (-)

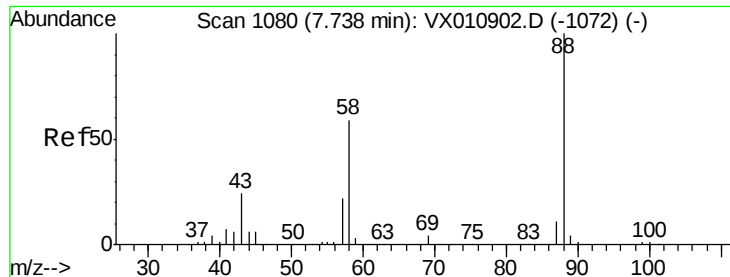
Ion 118.80 (118.50 to 119.50): VX010902.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX010902.D (-748) (-)

5.66

Time-->





#49

1,4-Dioxane

Concen: 0.350 ug/l

RT: 7.61 min Scan# 1059

Delta R.T. -0.13 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

Instrument :

MSVOA_X

ClientSampleId :

TW-6

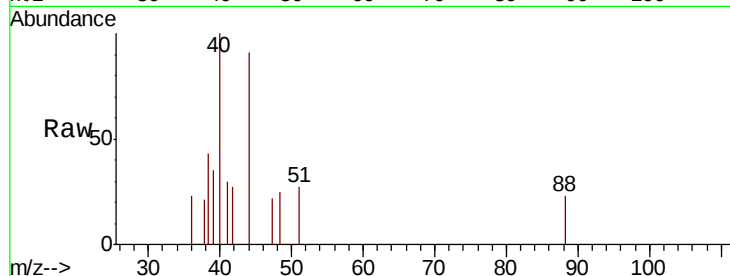
Tot Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 140.9 22.9 34.3#

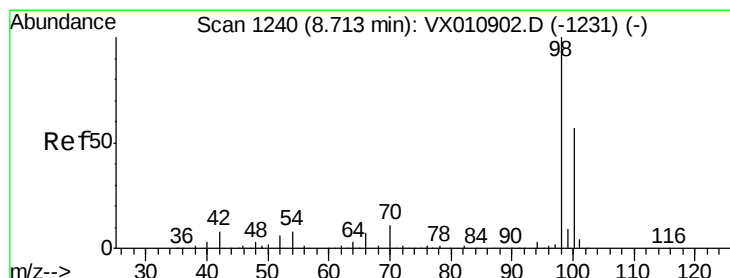
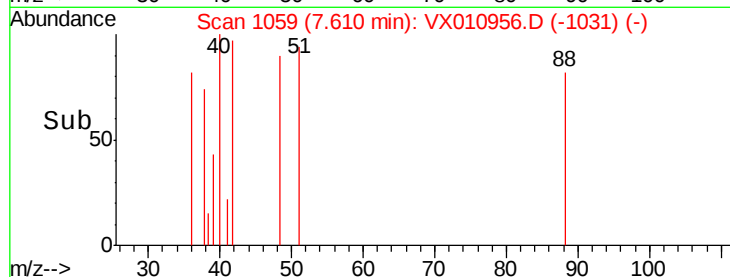
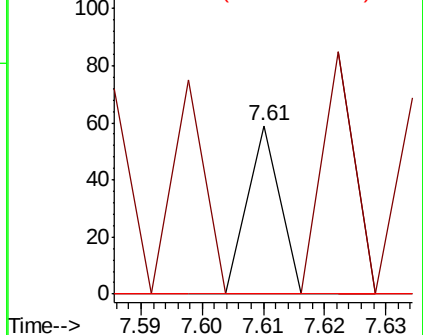
58 0.0 49.8 74.8#



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: 50.070 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010956.D

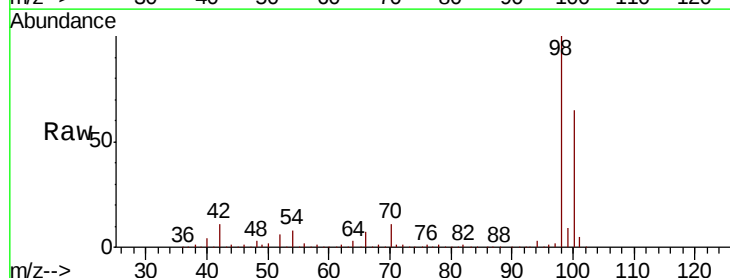
Acq: 18 Jul 2019 14:12

Tgt Ion: 98 Resp: 398066

Ion Ratio Lower Upper

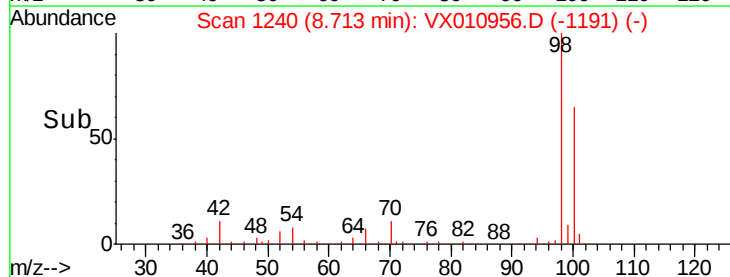
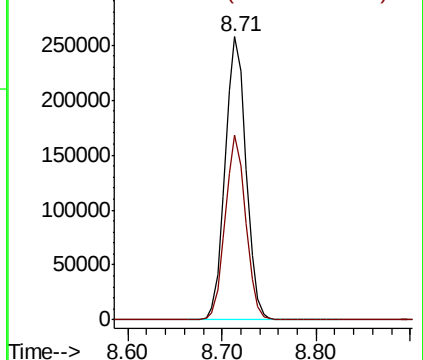
98 100

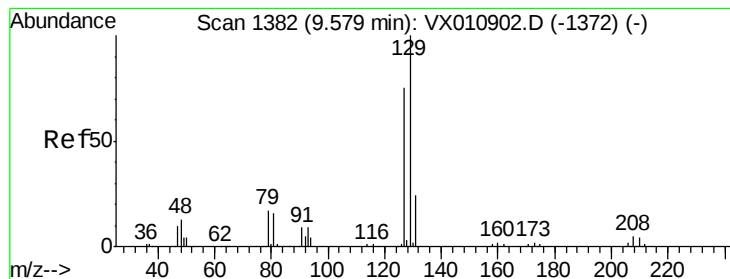
100 64.0 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.551 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.25 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

Instrument :

MSVOA_X

ClientSampleId :

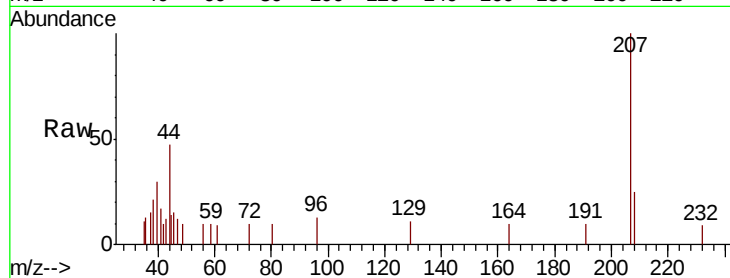
TW-6

Tot Ion:129 Resp: 63

Ion Ratio Lower Upper

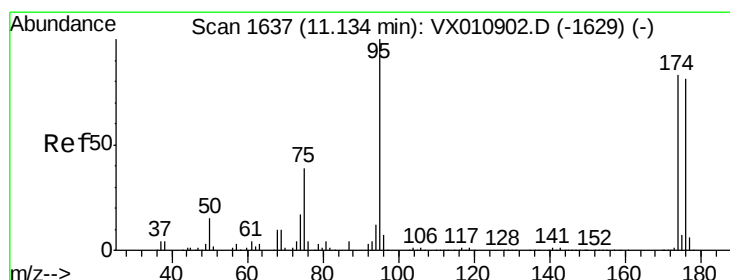
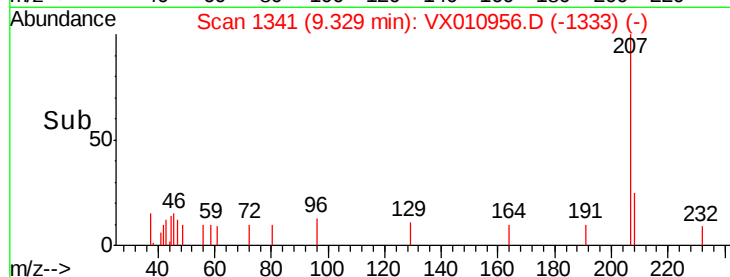
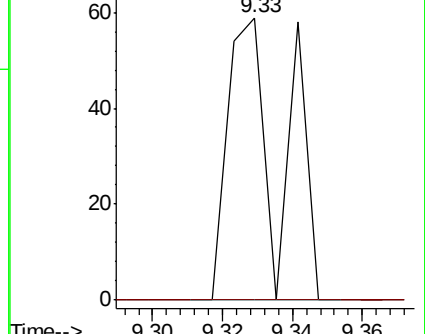
129 100

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



#62

4-Bromofluorobenzene

Concen: 45.443 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

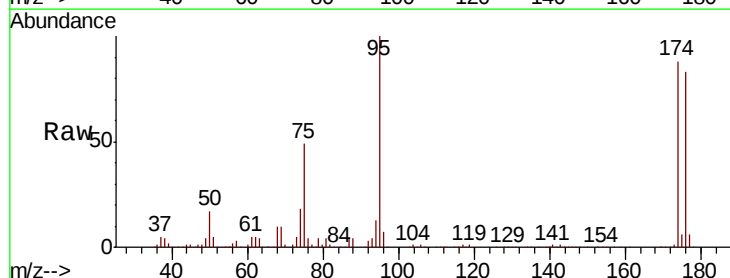
Tgt Ion: 95 Resp: 132795

Ion Ratio Lower Upper

95 100

174 93.0 0.0 180.6

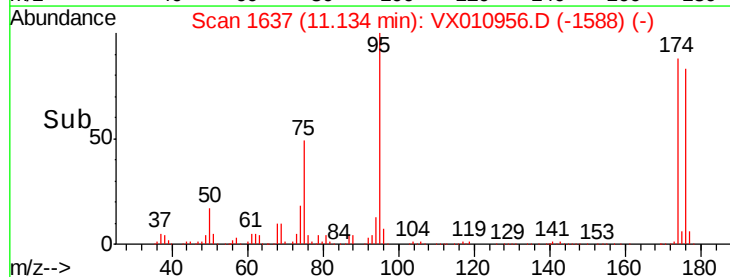
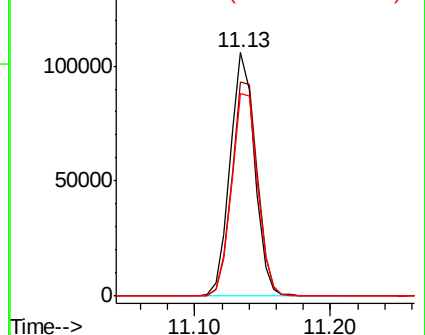
176 88.3 0.0 173.8

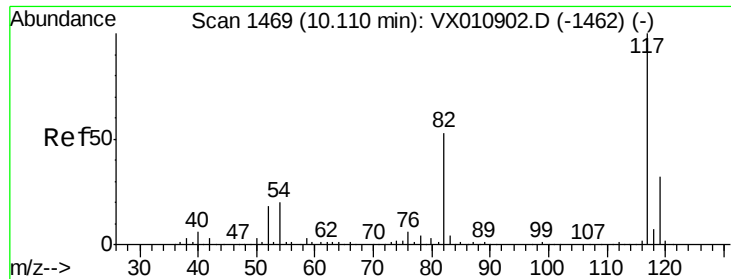


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

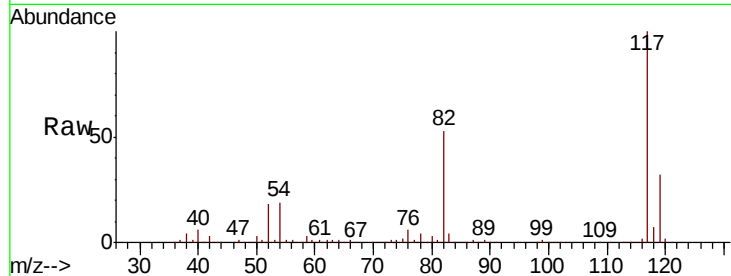




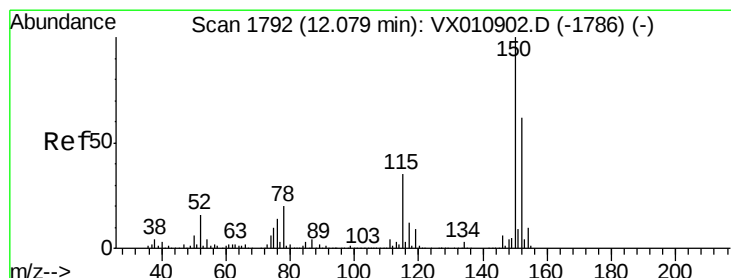
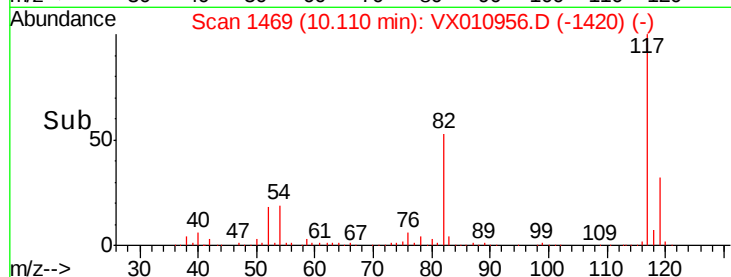
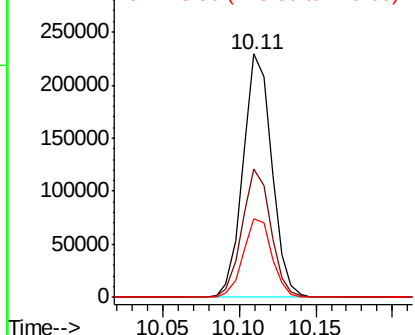
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010956.D
Acq: 18 Jul 2019 14:12

Instrument :
MSVOA_X
ClientSampleId :
TW-6

Tot Ion:117 Resp: 300172
Ion Ratio Lower Upper
117 100
82 52.7 42.6 63.8
119 32.4 25.9 38.9

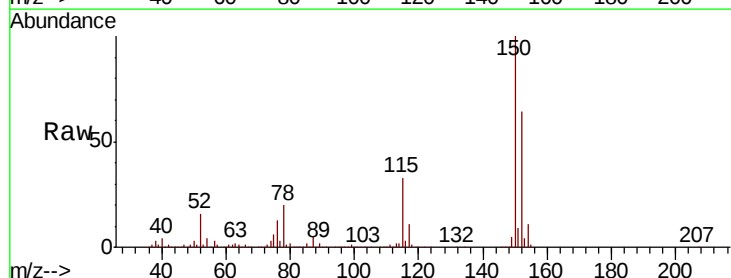


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

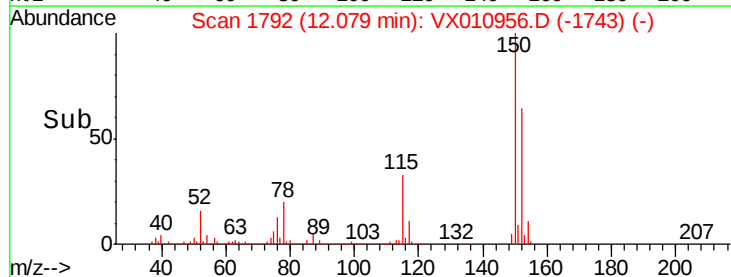
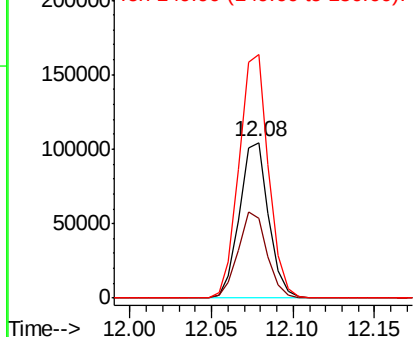


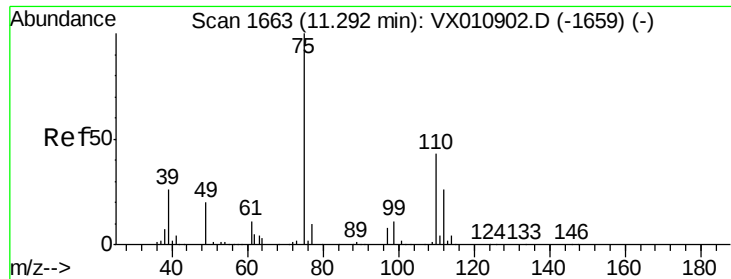
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010956.D
Acq: 18 Jul 2019 14:12

Tgt Ion:152 Resp: 130313
Ion Ratio Lower Upper
152 100
115 55.3 39.7 119.1
150 158.3 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: 28.024 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

Instrument :

MSVOA_X

ClientSampleId :

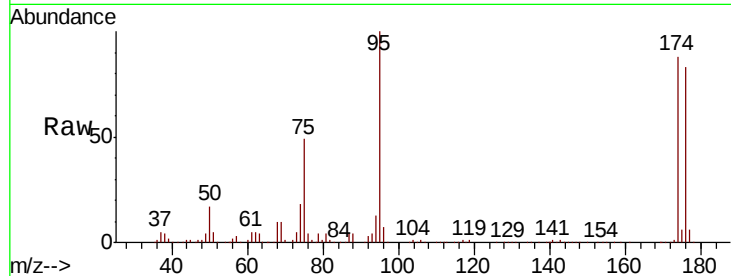
TW-6

Tot Ion: 75 Resp: 65900

Ion Ratio Lower Upper

75 100

77 1.4 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

60000

50000

40000

30000

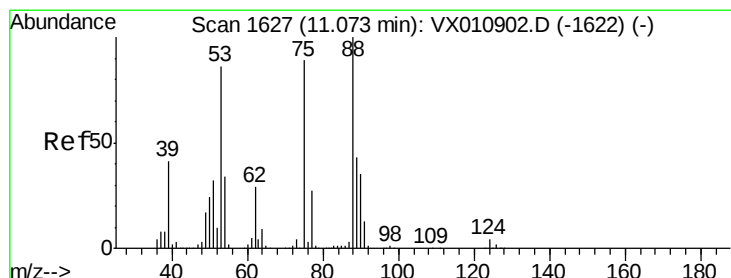
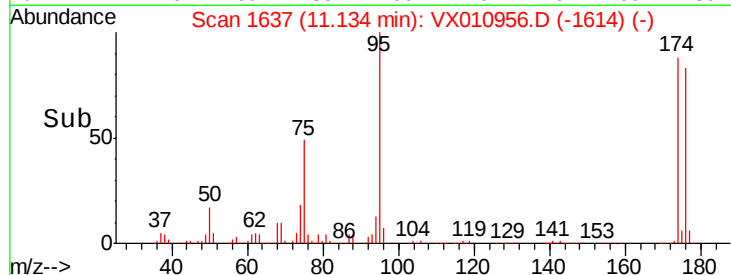
20000

10000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 69.329 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010956.D

Acq: 18 Jul 2019 14:12

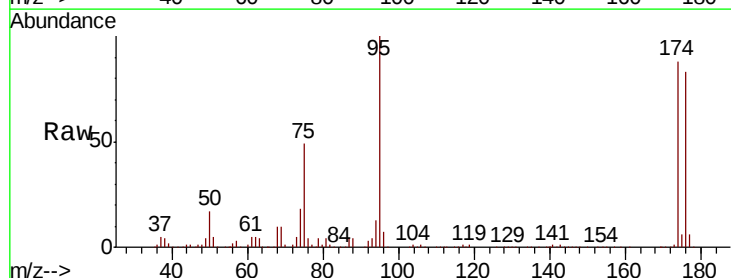
Tgt Ion: 75 Resp: 65900

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

50000

40000

30000

20000

10000

0

11.10 11.20

Time-->

