

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111218\
 Data File : VX005934.D
 Acq On : 13 Nov 2018 07:05
 Operator : JC/MD
 Sample : J5894-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DW-10

Quant Time: Nov 13 07:26:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	104028	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	160984	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	135181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	65300	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	67360	56.32	ug/l	0.00
Spiked Amount			Recovery	=	112.64%	
35) Dibromofluoromethane	5.51	113	54023	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	
50) Toluene-d8	8.71	98	179573	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
62) 4-Bromofluorobenzene	11.14	95	59439	45.42	ug/l	0.00
Spiked Amount			Recovery	=	90.84%	

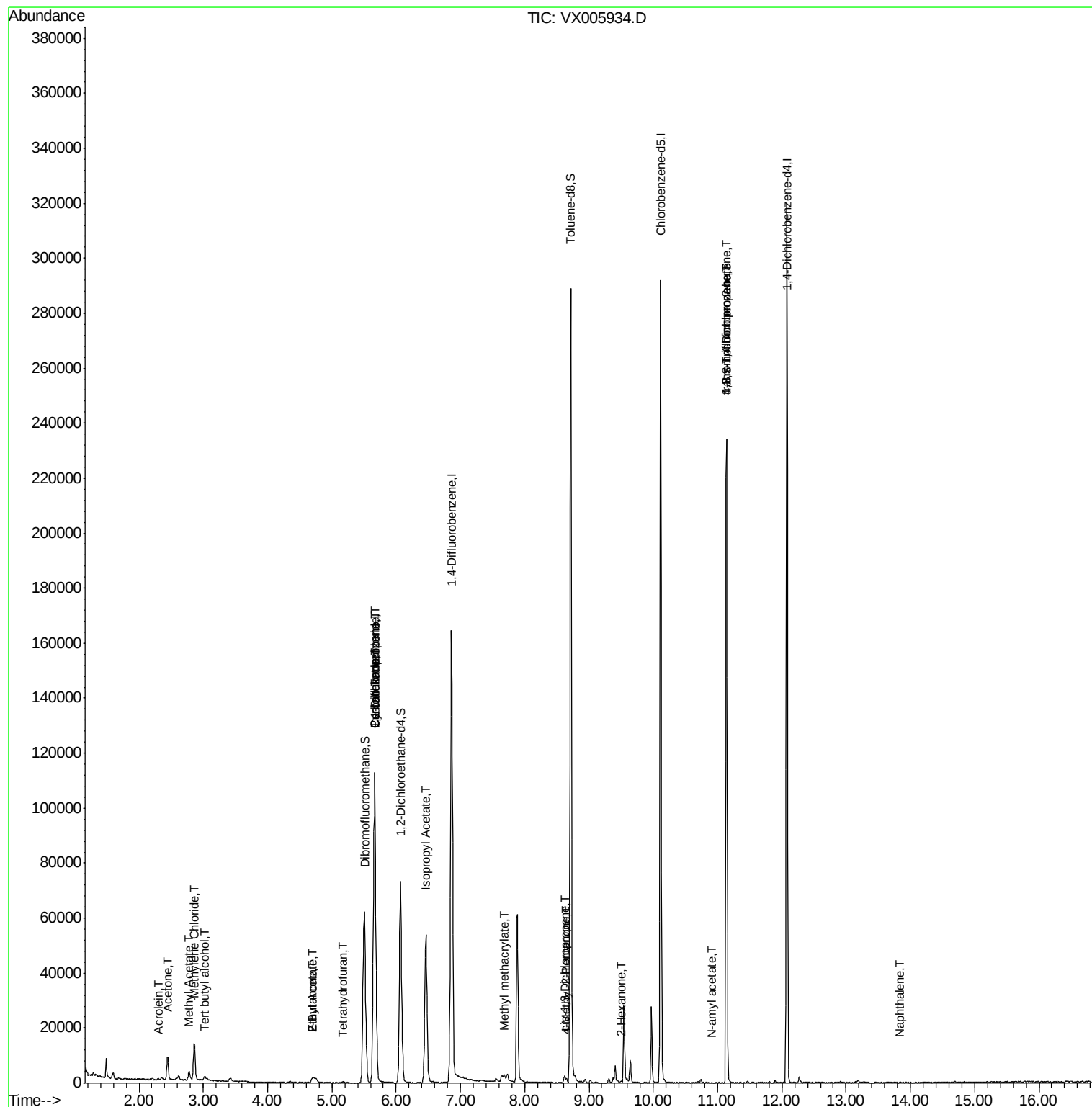
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.03	59	935	2.729	ug/l #	72
13) Acrolein	2.29	56	88	19.661	ug/l #	43
16) Acetone	2.45	43	8984	13.952	ug/l	96
18) Methyl Acetate	2.78	43	4427	1.115	ug/l	94
20) Methylene Chloride	2.85	84	5875	5.554	ug/l	97
25) 2-Butanone	4.70	43	4227	4.175	ug/l	92
29) Tetrahydrofuran	5.17	42	411	0.632	ug/l #	44
31) Cyclohexane	5.67	56	2024	1.215	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	7623	4.912	ug/l #	49
37) Ethyl Acetate	4.70	43	4227	2.071	ug/l #	69
38) Carbon Tetrachloride	5.67	117	9591	6.173	ug/l #	15
43) Isopropyl Acetate	6.46	43	71032	24.020	ug/l	100
48) Methyl methacrylate	7.68	41	2941	2.215	ug/l #	23
51) 4-Methyl-2-Pentanone	8.65	43	727	0.390	ug/l #	78
54) cis-1,3-Dichloropropene	8.62	75	345	0.220	ug/l #	70
59) 2-Hexanone	9.50	43	601	0.366	ug/l	82
74) N-amyl acetate	10.91	43	19	1.259	ug/l #	44
76) 1,2,3-Trichloropropane	11.13	75	30163	22.685	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	30163	72.301	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.82	105	52	Below Cal	#	31
95) Naphthalene	13.83	128	214	1.222	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

Instrument :

MSVOA_X

ClientSampleId :

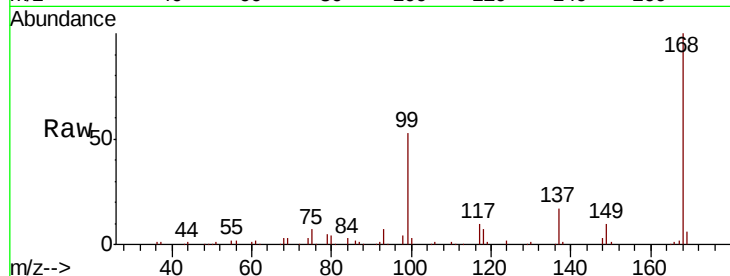
DW-10

Tot Ion:168 Resp: 104028

Ion Ratio Lower Upper

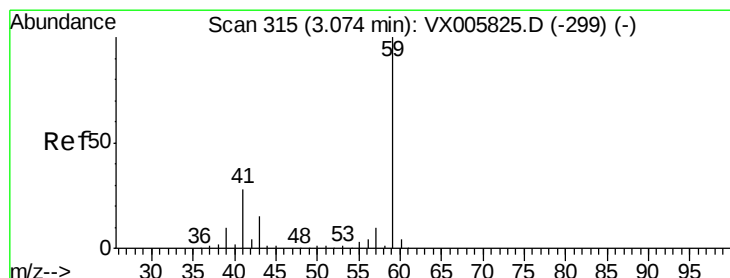
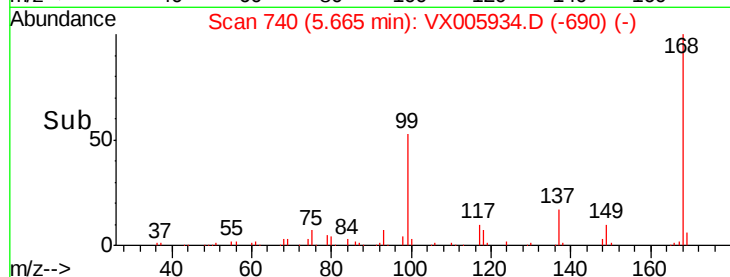
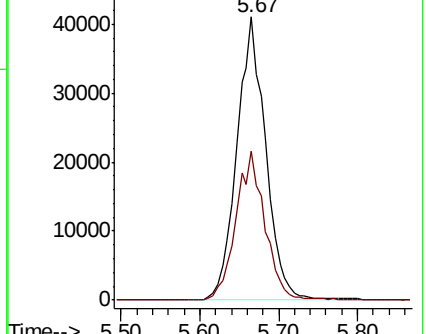
168 100

99 52.7 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 2.729 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005934.D

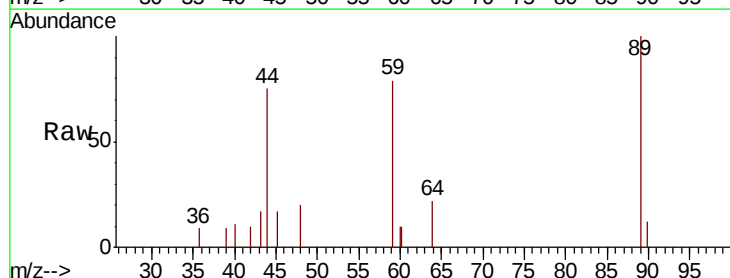
Acq: 13 Nov 2018 07:05

Tgt Ion: 59 Resp: 935

Ion Ratio Lower Upper

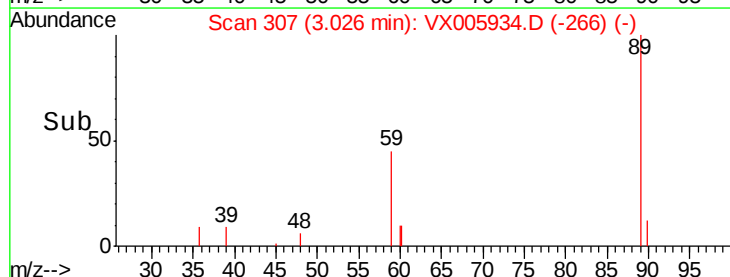
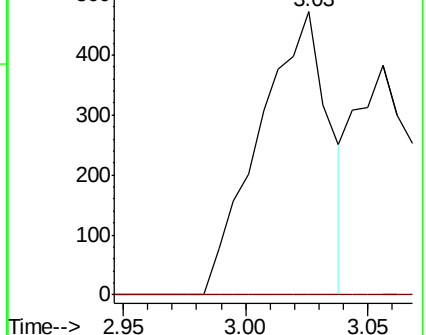
59 100

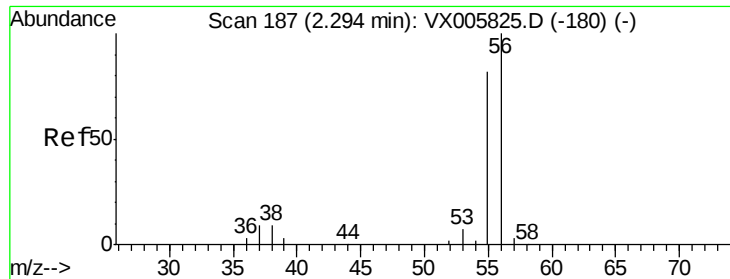
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 19.661 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

Instrument :

MSVOA_X

ClientSampleId :

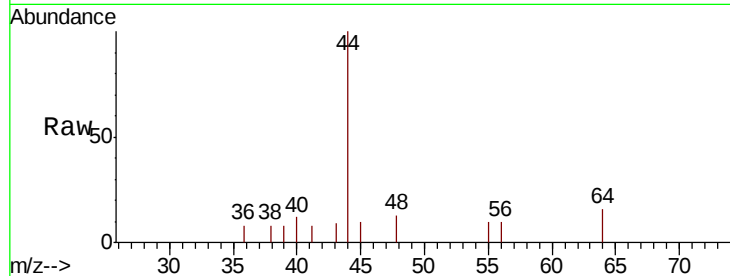
DW-10

Tot Ion: 56 Resp: 88

Ion Ratio Lower Upper

56 100

55 119.3 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

80

60

40

20

0

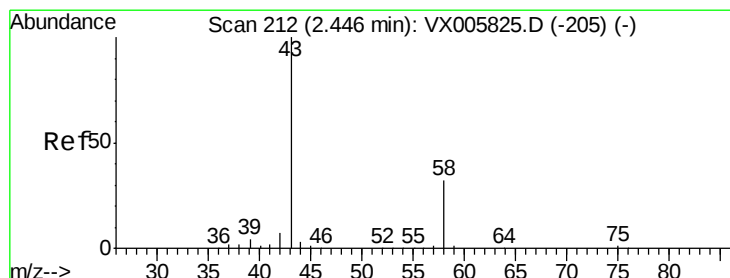
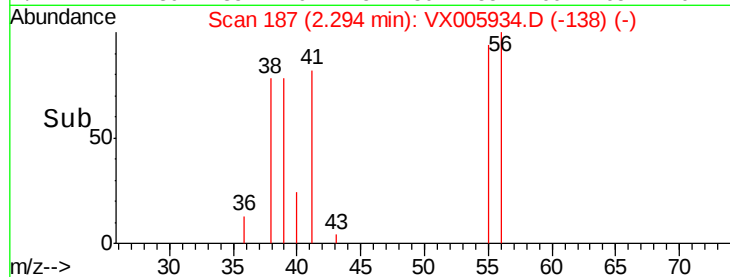
Time-->

2.26

2.28

2.30

2.32



#16

Acetone

Concen: 13.952 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005934.D

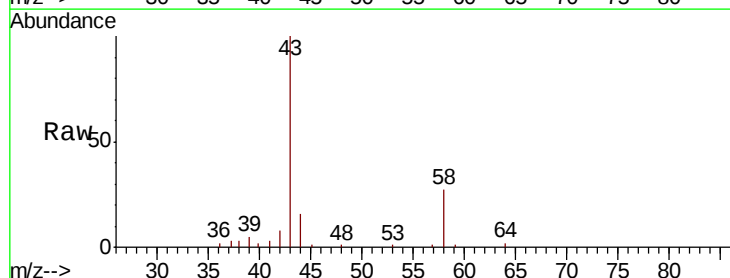
Acq: 13 Nov 2018 07:05

Tgt Ion: 43 Resp: 8984

Ion Ratio Lower Upper

43 100

58 27.4 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

6000

5000

4000

3000

2000

1000

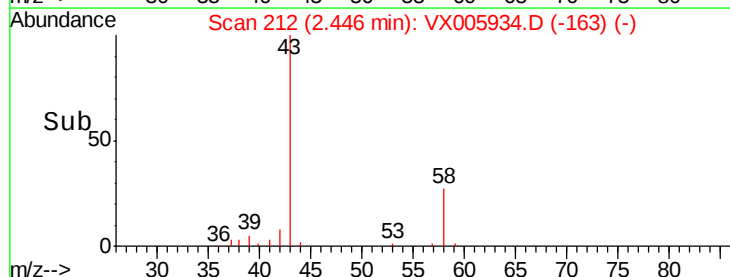
0

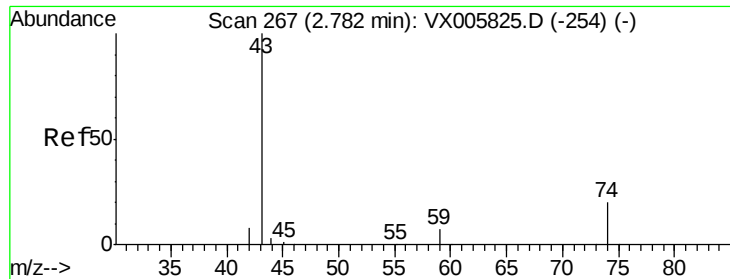
Time-->

2.40

2.45

2.50

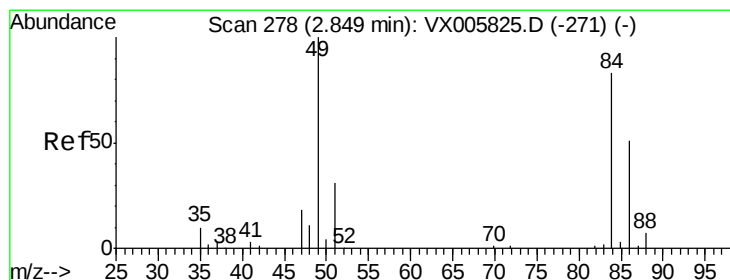
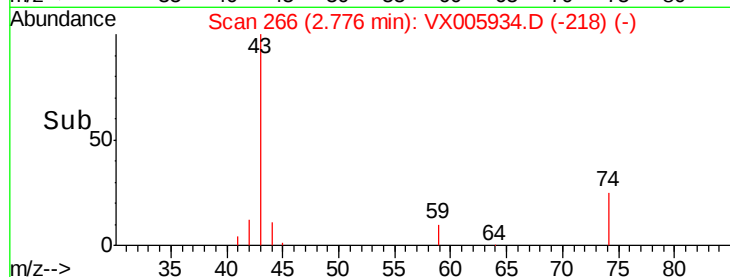
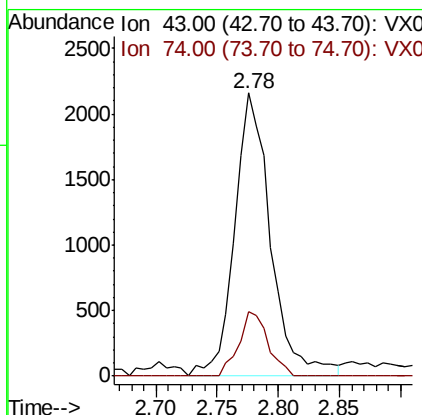
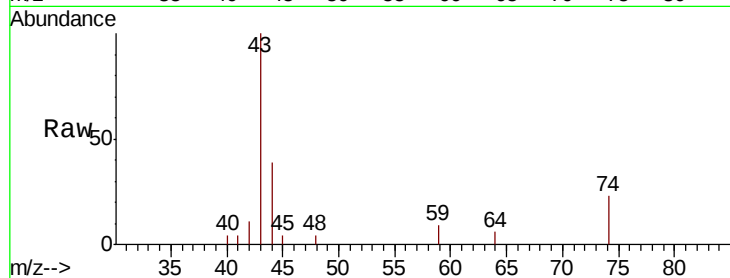




#18
Methyl Acetate
Concen: 1.115 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005934.D
Acq: 13 Nov 2018 07:05

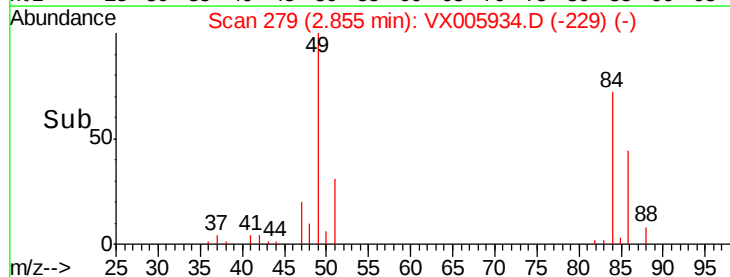
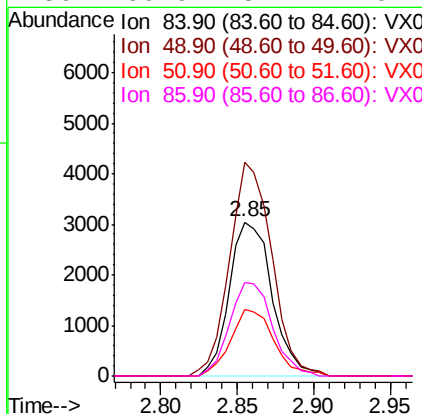
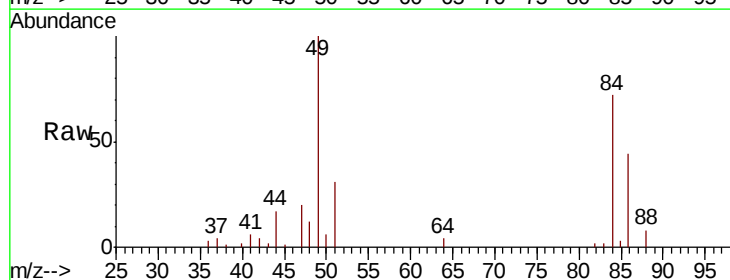
Instrument :
MSVOA_X
ClientSampleID :
DW-10

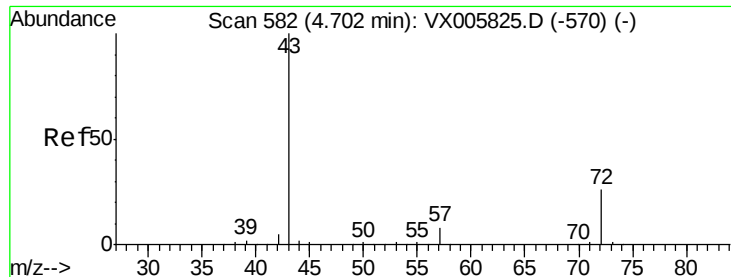
Tot Ion: 43 Resp: 4427
Ion Ratio Lower Upper
43 100
74 18.3 16.8 25.2



#20
Methylene Chloride
Concen: 5.554 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX005934.D
Acq: 13 Nov 2018 07:05

Tgt Ion: 84 Resp: 5875
Ion Ratio Lower Upper
84 100
49 138.7 109.5 164.3
51 43.3 33.3 49.9
86 60.9 52.7 79.1





#25

2-Butanone

Concen: 4.175 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

Instrument :

MSVOA_X

ClientSampleId :

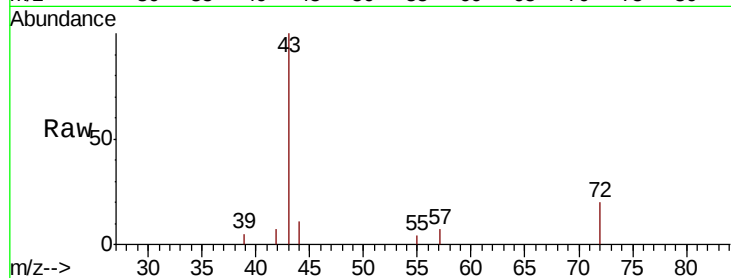
DW-10

Tot Ion: 43 Resp: 4227

Ion Ratio Lower Upper

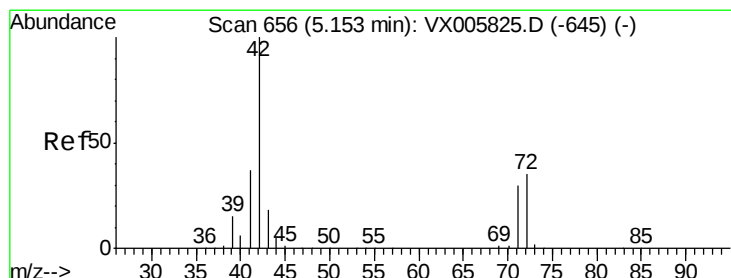
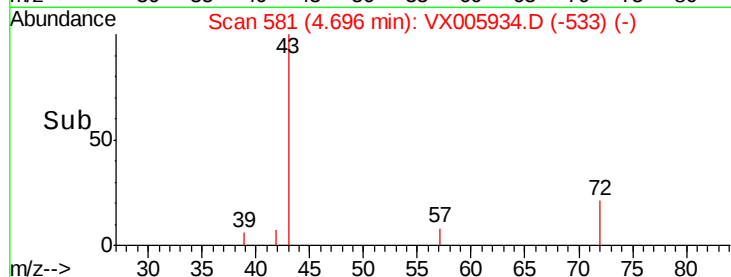
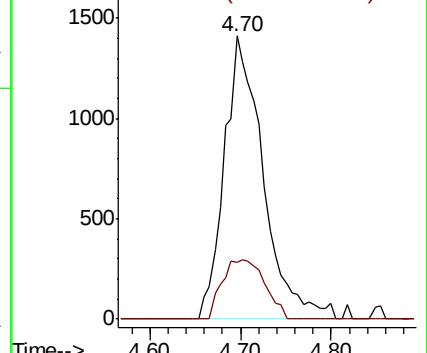
43 100

72 20.0 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.632 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

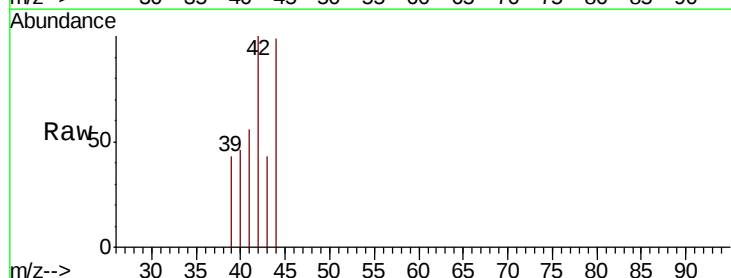
Tgt Ion: 42 Resp: 411

Ion Ratio Lower Upper

42 100

72 4.6 32.0 48.0#

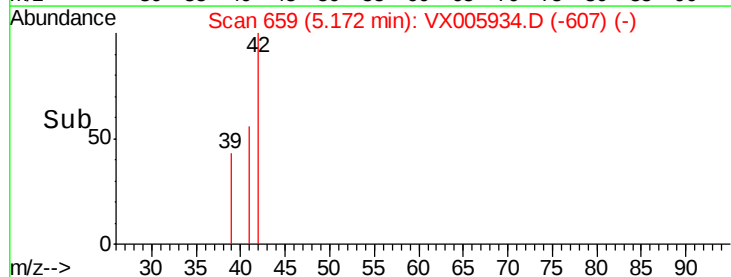
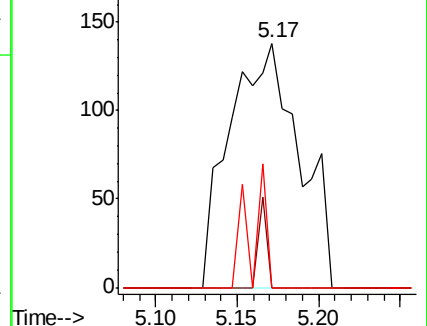
71 5.1 29.8 44.8#

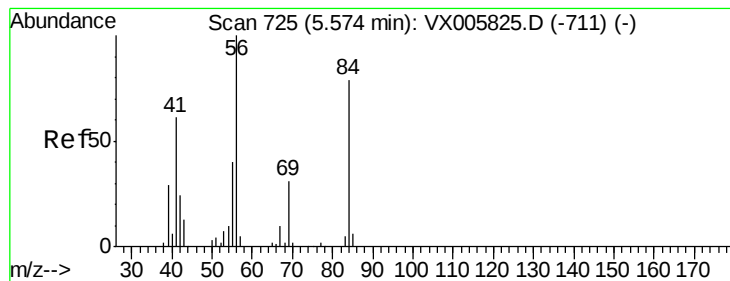


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.215 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

Instrument :

MSVOA_X

ClientSampleId :

DW-10

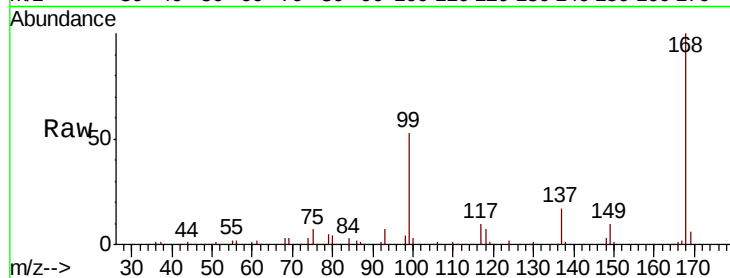
Tot Ion: 56 Resp: 2024

Ion Ratio Lower Upper

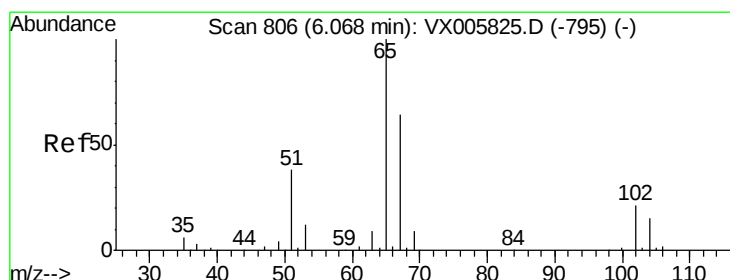
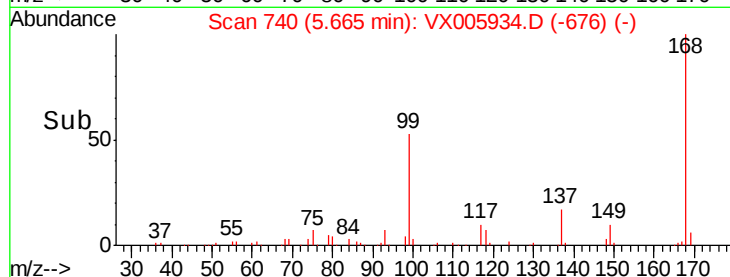
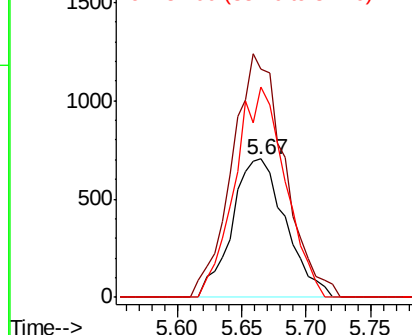
56 100

69 165.0 22.6 34.0#

84 152.3 62.7 94.1#



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: 56.324 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005934.D

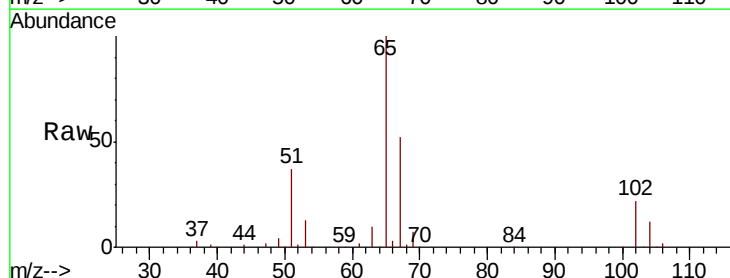
Acq: 13 Nov 2018 07:05

Tgt Ion: 65 Resp: 67360

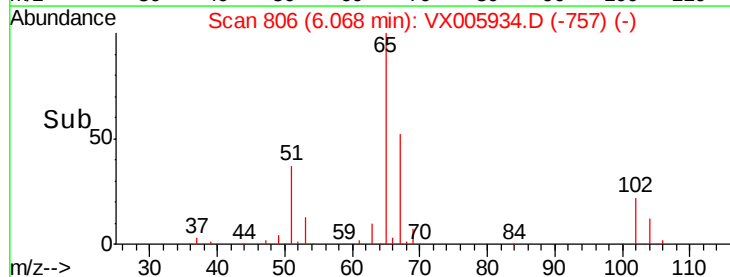
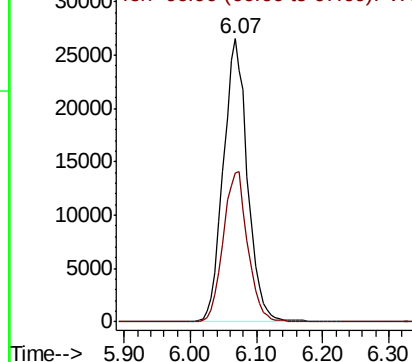
Ion Ratio Lower Upper

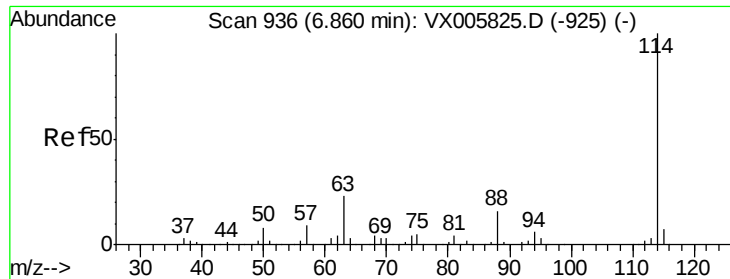
65 100

67 53.6 0.0 105.0



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

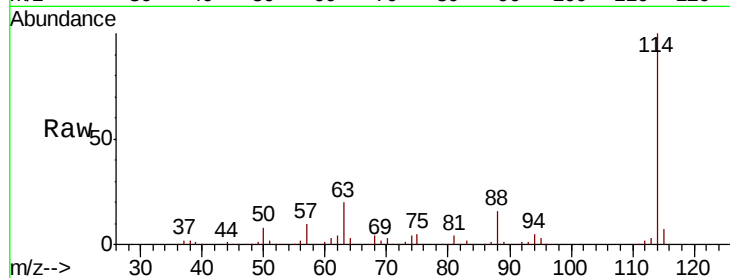




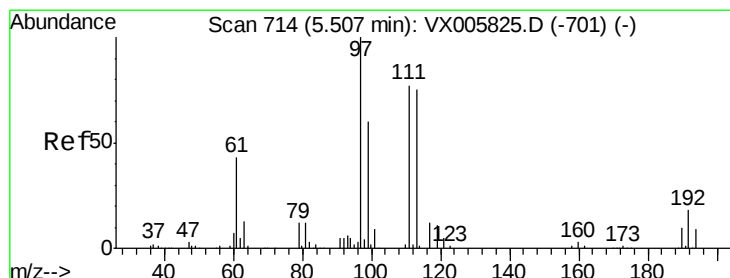
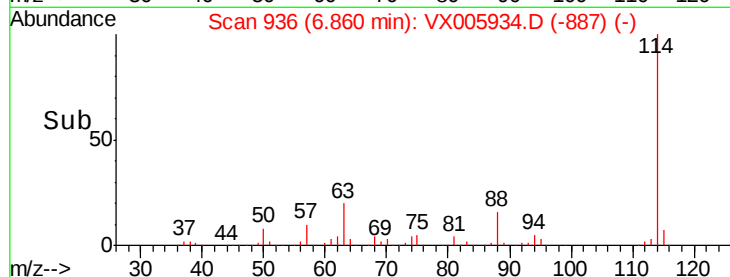
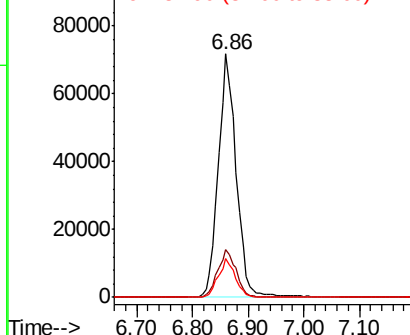
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005934.D
 Acq: 13 Nov 2018 07:05

Instrument :
 MSVOA_X
 ClientSampleId :
 DW-10

Tot Ion:114 Resp: 160984
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 42.8
 88 15.8 0.0 31.2

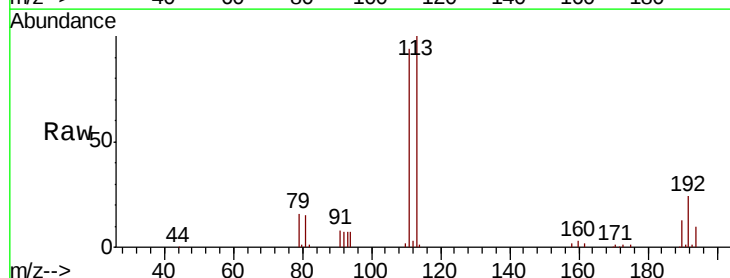


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

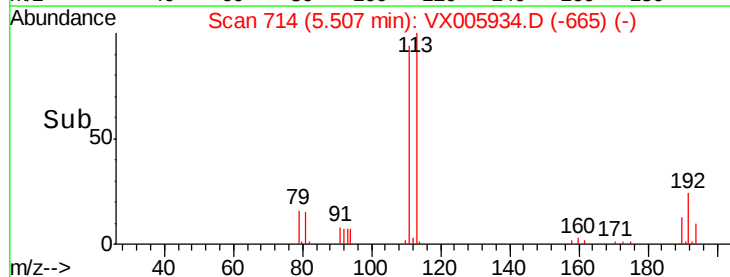
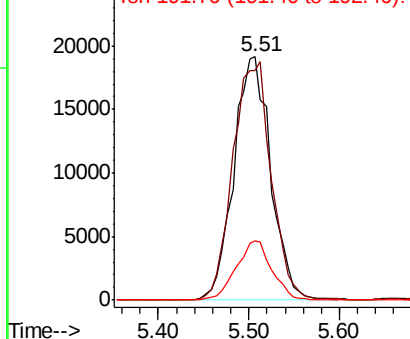


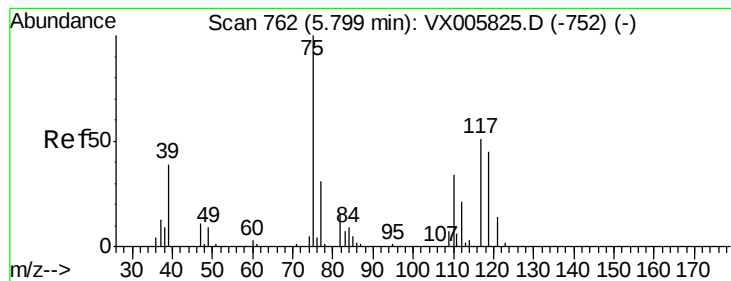
#35
 Dibromofluoromethane
 Concen: 49.339 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.00 min
 Lab File: VX005934.D
 Acq: 13 Nov 2018 07:05

Tgt Ion:113 Resp: 54023
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.3 123.5
 192 23.4 17.9 26.9



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: 4.912 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

Instrument :

MSVOA_X

ClientSampleId :

DW-10

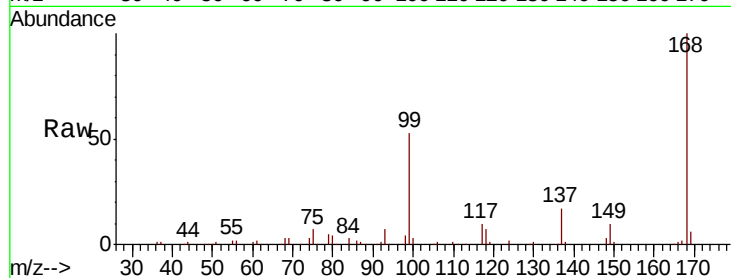
Tot Ion: 75 Resp: 7623

Ion Ratio Lower Upper

75 100

110 8.8 17.4 52.2#

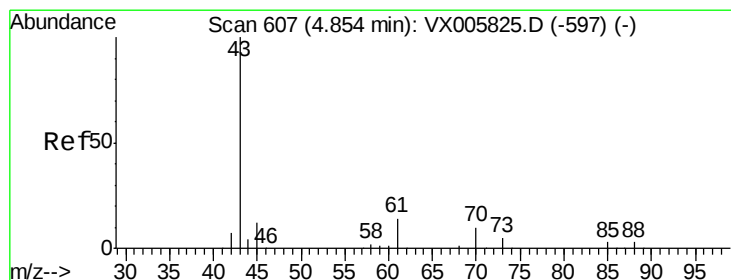
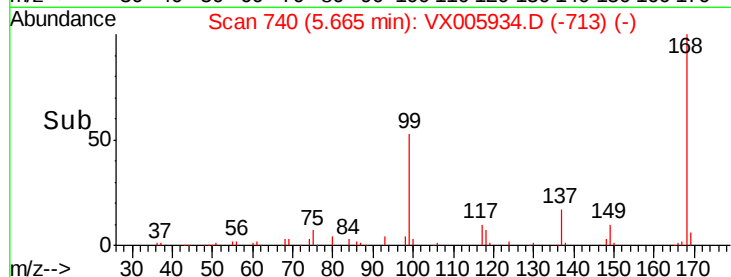
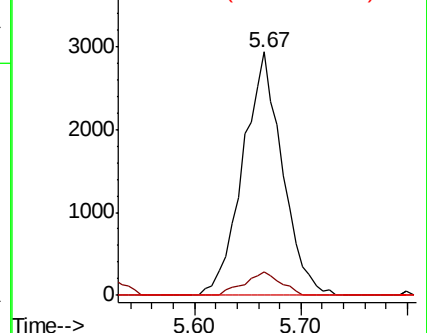
77 0.0 25.8 38.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 2.071 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.16 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

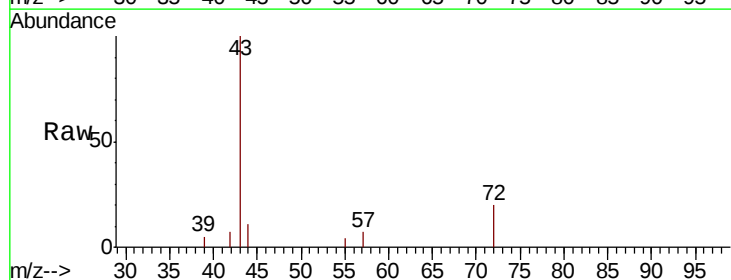
Tgt Ion: 43 Resp: 4227

Ion Ratio Lower Upper

43 100

61 0.0 10.8 16.2#

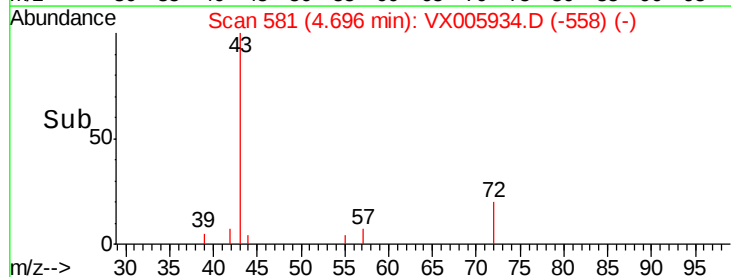
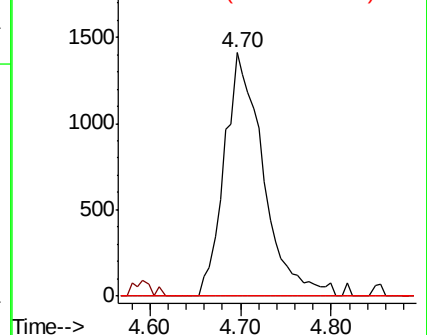
70 0.0 7.8 11.8#

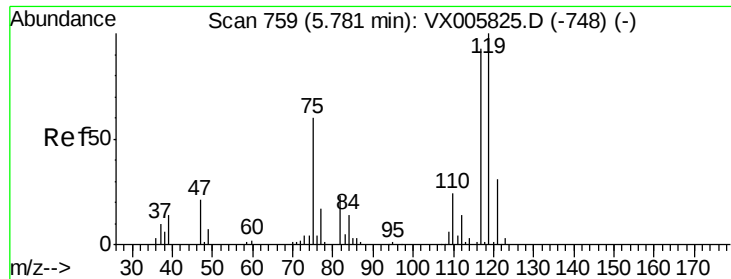


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0

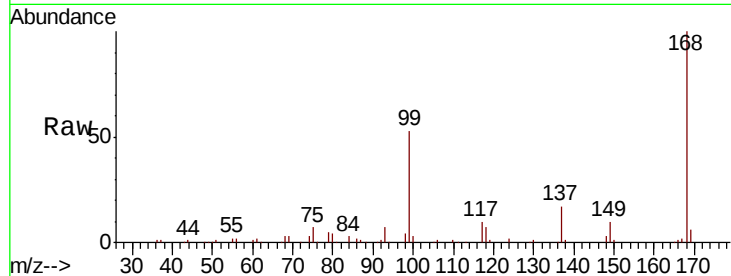




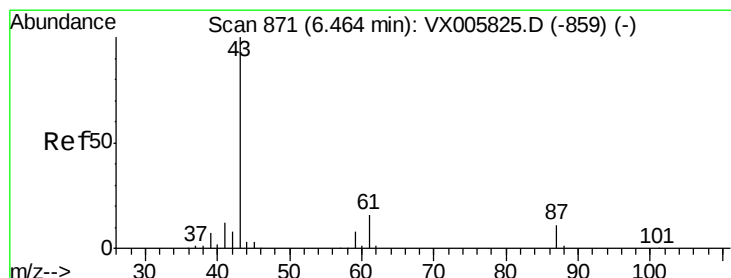
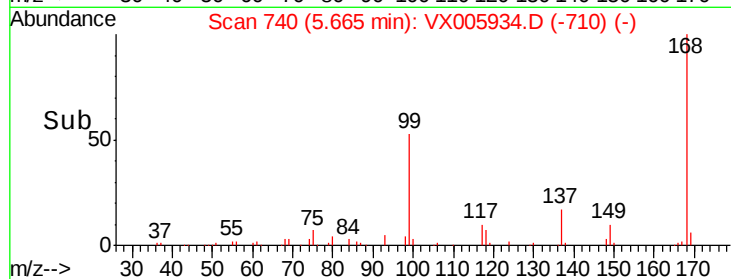
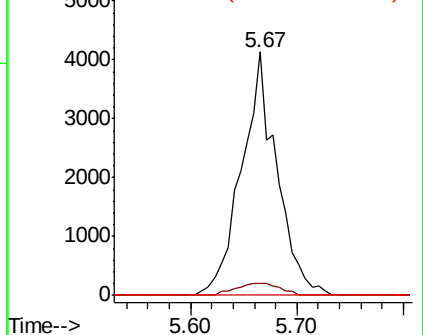
#38
Carbon Tetrachloride
Concen: 6.173 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005934.D
Acq: 13 Nov 2018 07:05

Instrument :
MSVOA_X
ClientSampled :
DW-10

Tot Ion:117 Resp: 9591
Ion Ratio Lower Upper
117 100
119 5.1 78.1 117.1#
121 0.0 24.6 36.8#

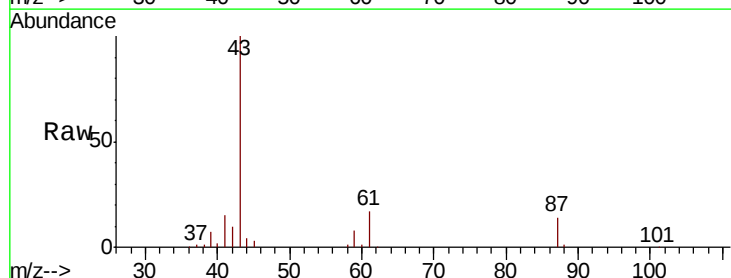


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

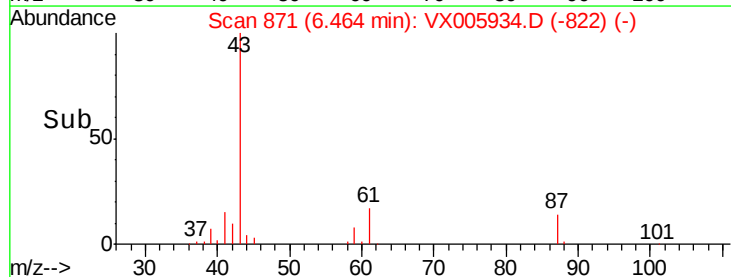
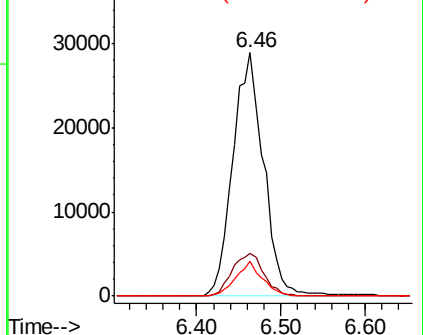


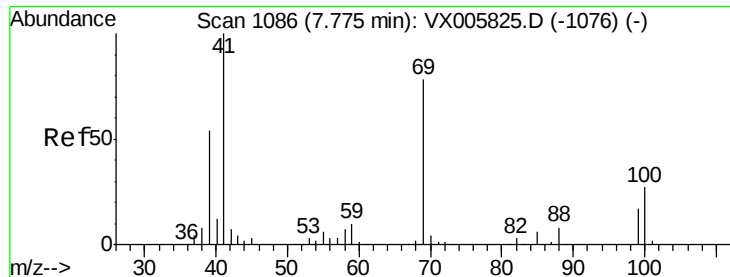
#43
Isopropyl Acetate
Concen: 24.020 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.00 min
Lab File: VX005934.D
Acq: 13 Nov 2018 07:05

Tgt Ion: 43 Resp: 71032
Ion Ratio Lower Upper
43 100
61 18.4 14.6 22.0
87 12.2 9.6 14.4



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





#48

Methvl methacrylate

Concen: 2.215 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

Instrument :

MSVOA_X

ClientSampleId :

DW-10

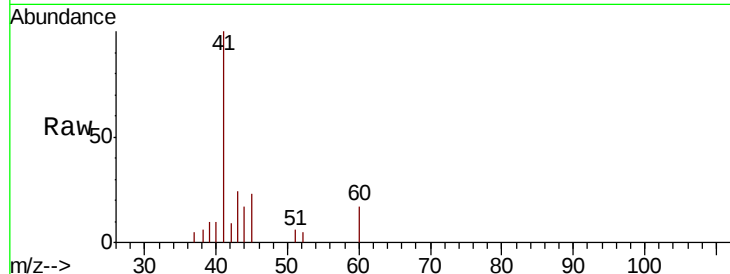
Tot Ion: 41 Resp: 2941

Ion Ratio Lower Upper

41 100

69 0.0 63.2 94.8#

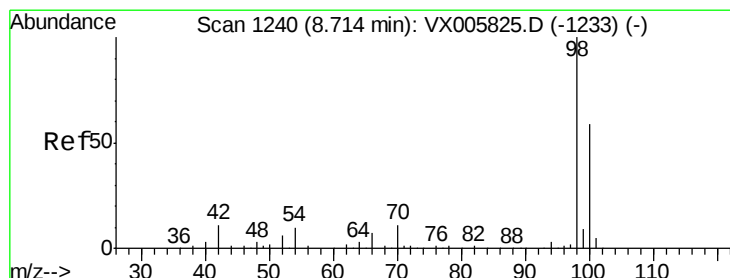
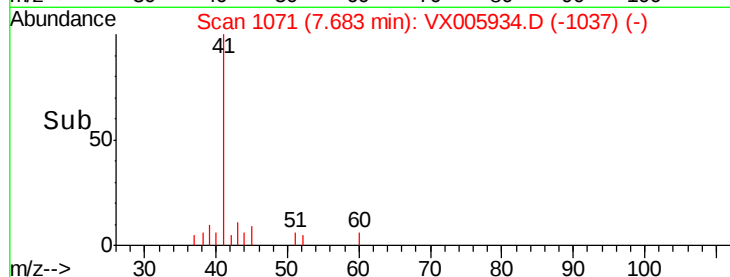
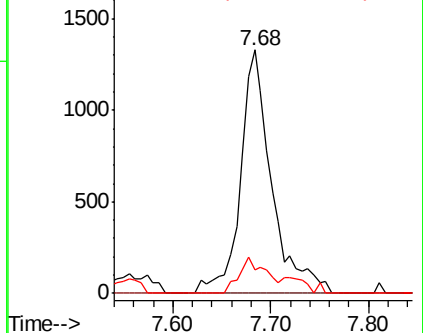
39 12.5 42.2 63.2#



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



#50

Toluene-d8

Concen: 49.331 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005934.D

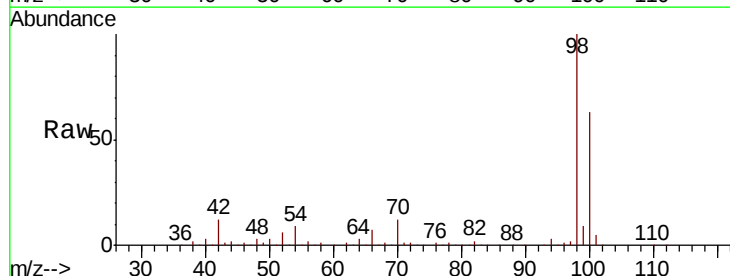
Acq: 13 Nov 2018 07:05

Tgt Ion: 98 Resp: 179573

Ion Ratio Lower Upper

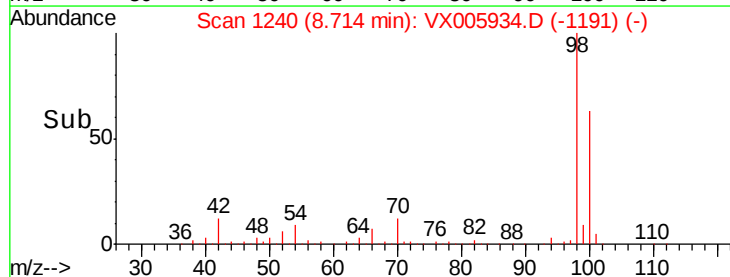
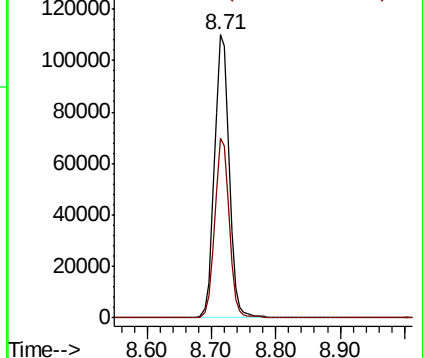
98 100

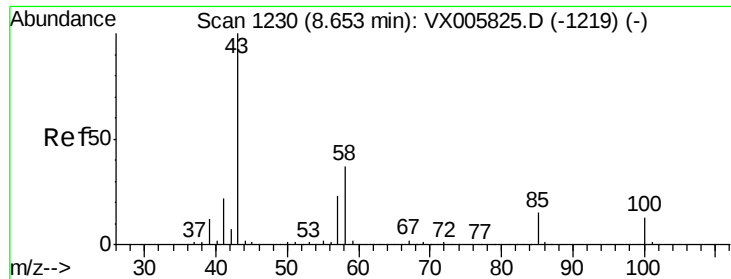
100 62.3 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.390 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

Instrument :

MSVOA_X

ClientSampleID :

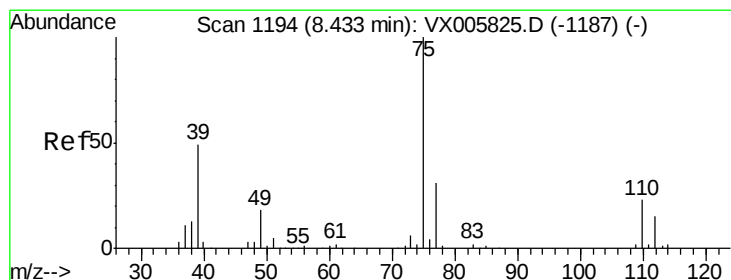
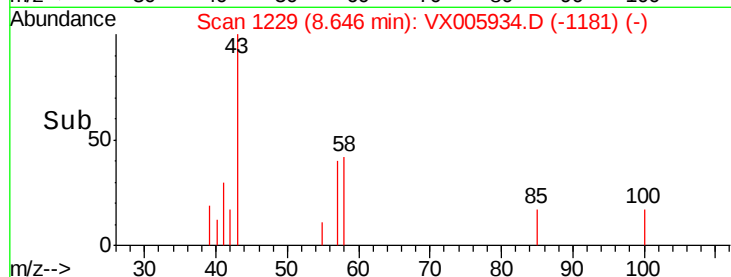
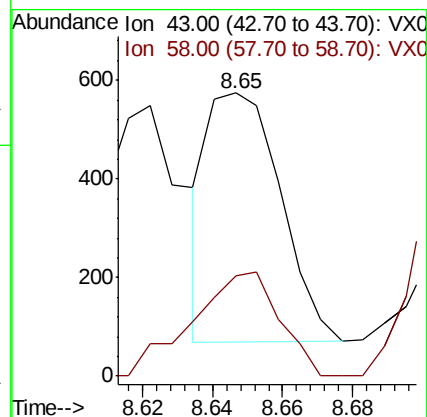
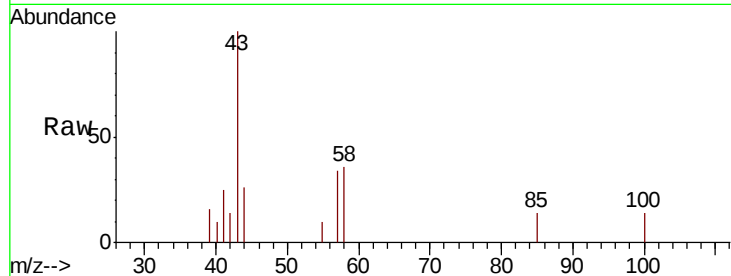
DW-10

Tot Ion: 43 Resp: 727

Ion Ratio Lower Upper

43 100

58 50.5 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 0.220 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

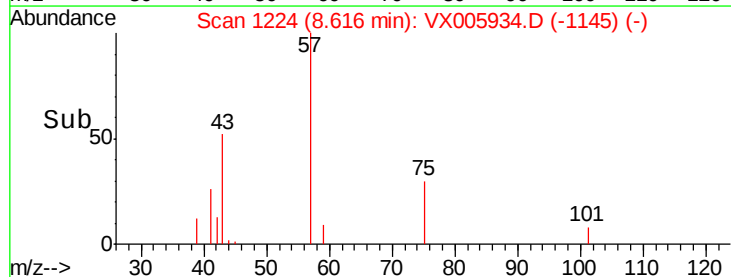
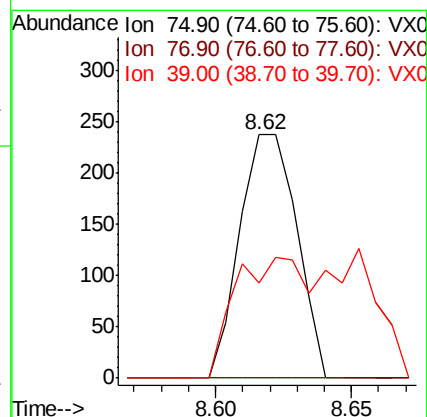
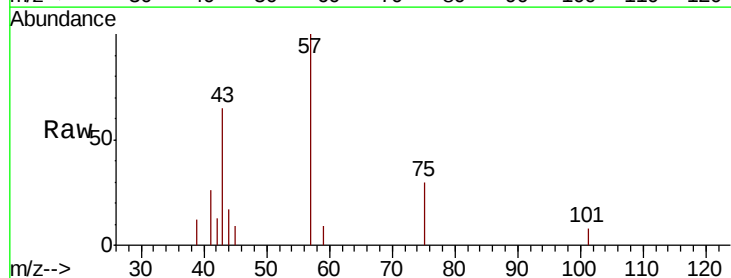
Tgt Ion: 75 Resp: 345

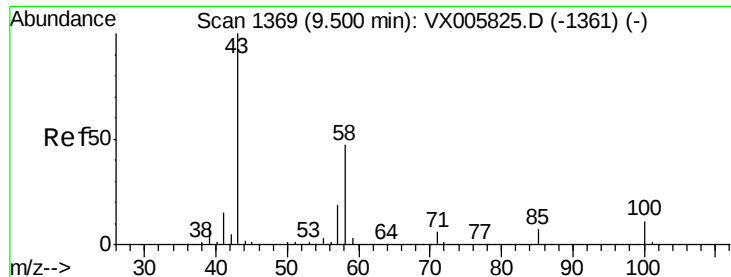
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 39.2 38.2 57.2

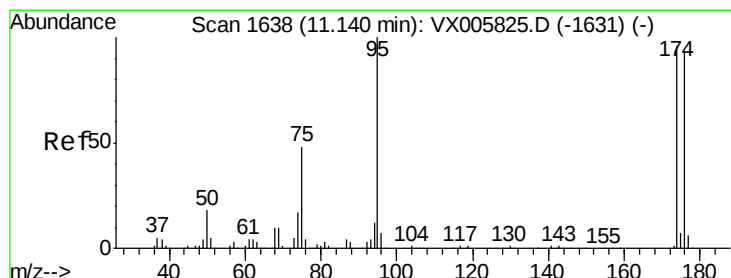
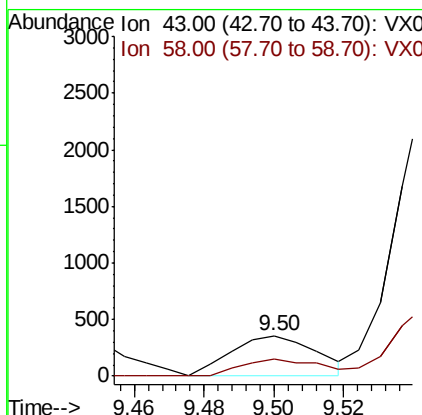
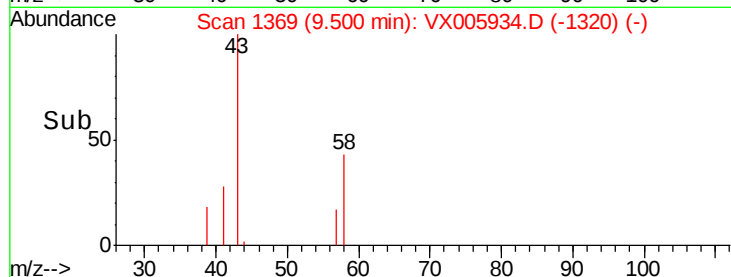
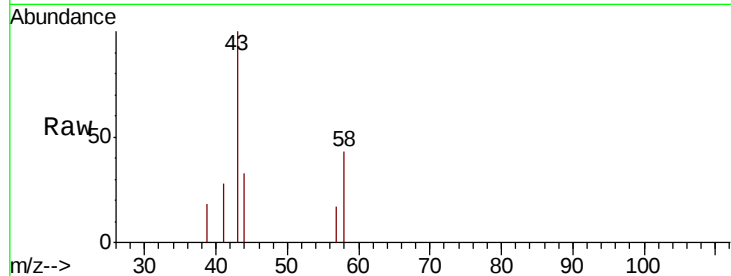




#59
2-Hexanone
Concen: 0.366 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VX005934.D
Acq: 13 Nov 2018 07:05

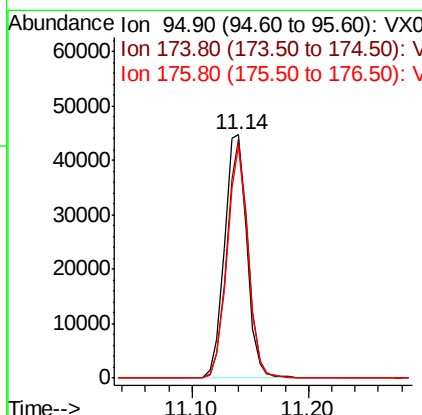
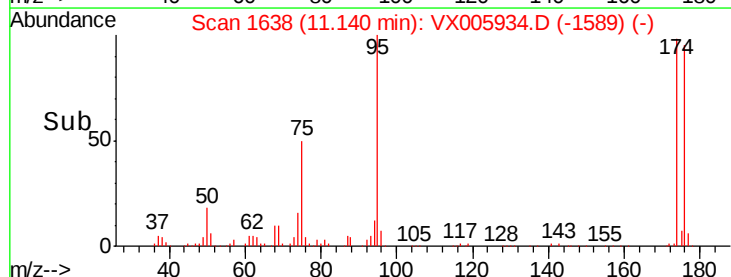
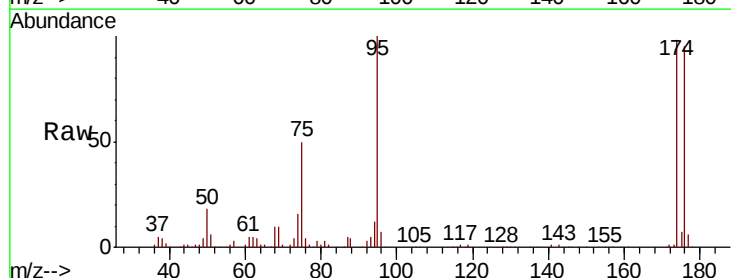
Instrument :
MSVOA_X
ClientSampleId :
DW-10

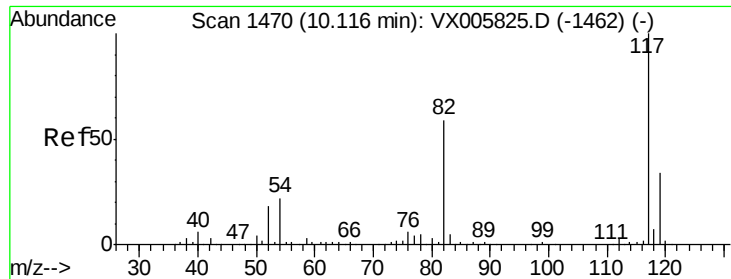
Tot Ion: 43 Resp: 601
Ion Ratio Lower Upper
43 100
58 39.6 25.9 77.8



#62
4-Bromofluorobenzene
Concen: 45.416 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005934.D
Acq: 13 Nov 2018 07:05

Tgt Ion: 95 Resp: 59439
Ion Ratio Lower Upper
95 100
174 93.1 0.0 184.4
176 89.4 0.0 177.4

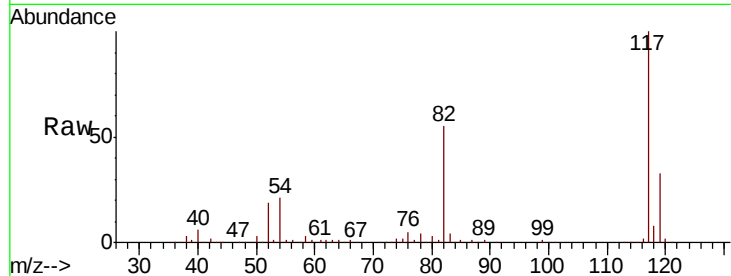




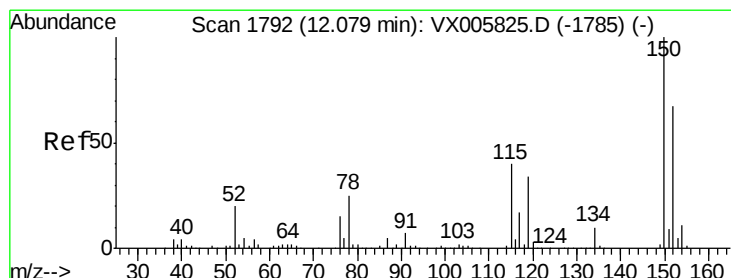
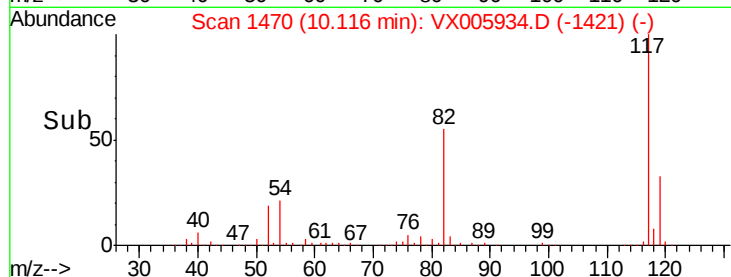
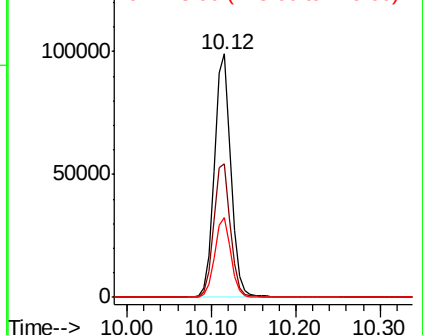
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.12 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VX005934.D
 Acq: 13 Nov 2018 07:05

Instrument :
 MSVOA_X
 ClientSampleId :
 DW-10

Tot Ion:117 Resp: 135181
 Ion Ratio Lower Upper
 117 100
 82 54.7 44.1 66.1
 119 32.6 26.2 39.2

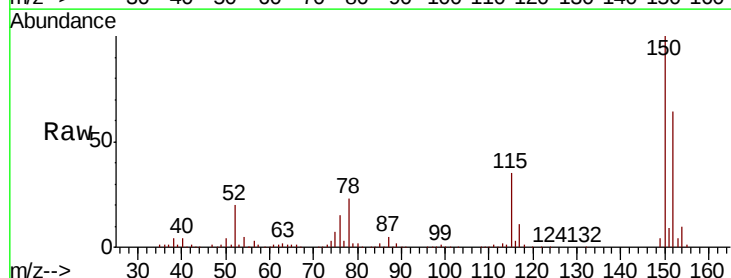


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): VX0
 Ion 118.90 (118.60 to 119.60): V

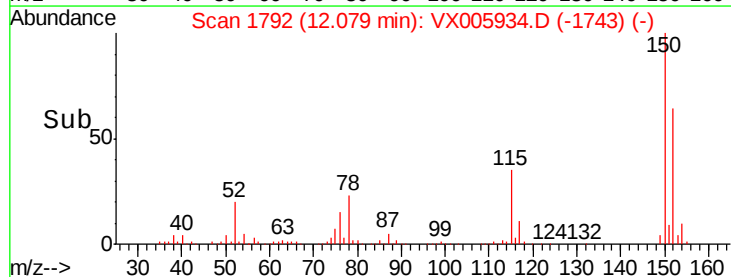
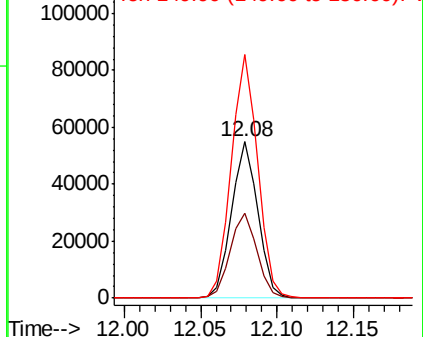


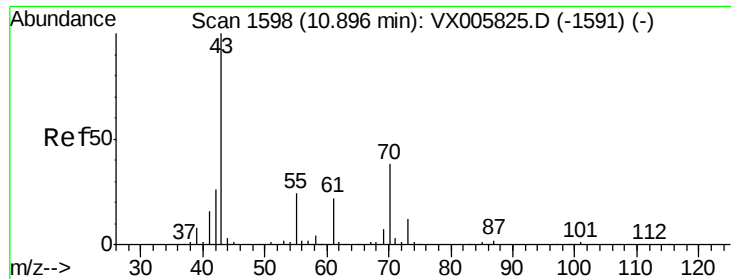
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX005934.D
 Acq: 13 Nov 2018 07:05

Tgt Ion:152 Resp: 65300
 Ion Ratio Lower Upper
 152 100
 115 55.6 39.4 118.1
 150 156.7 0.0 346.4



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





#74

N-amvl acetate

Concen: 1.259 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005934.D

Acq: 13 Nov 2018 07:05

Instrument :

MSVOA_X

ClientSampleId :

DW-10

Tot Ion: 43 Resp: 19

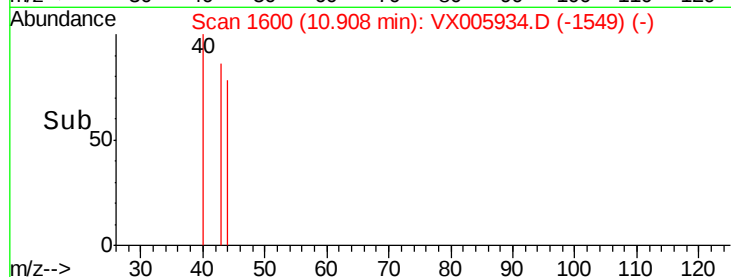
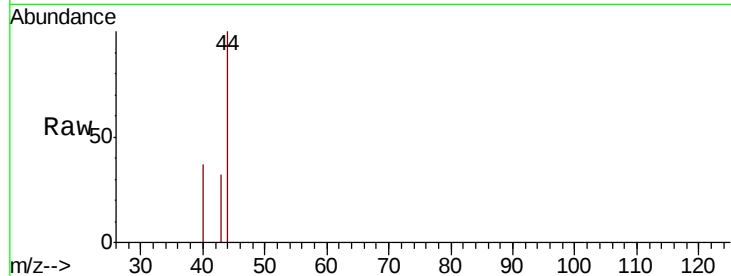
Ion Ratio Lower Upper

43 100

70 0.0 31.6 47.4#

55 0.0 19.7 29.5#

61 0.0 18.3 27.5#

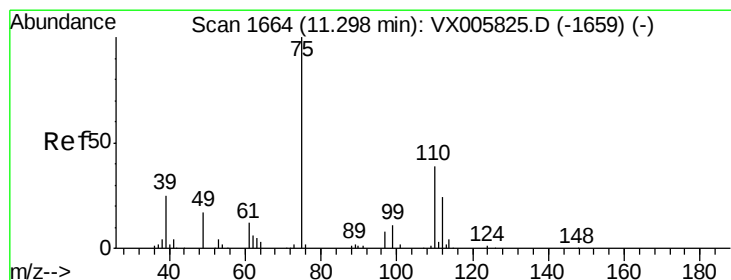
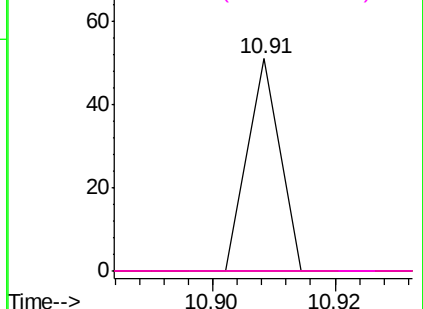


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.685 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX005934.D

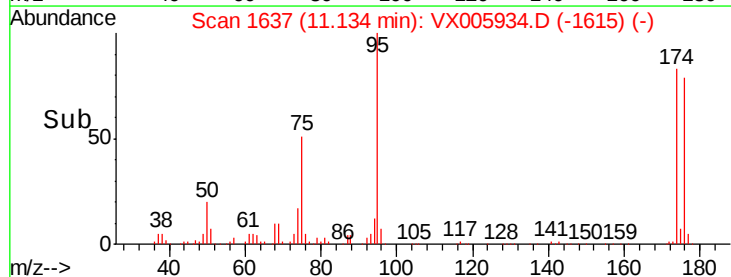
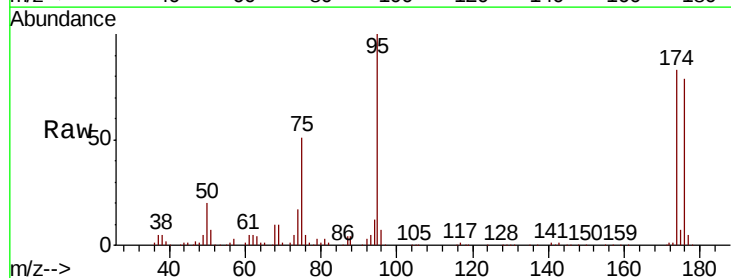
Acq: 13 Nov 2018 07:05

Tgt Ion: 75 Resp: 30163

Ion Ratio Lower Upper

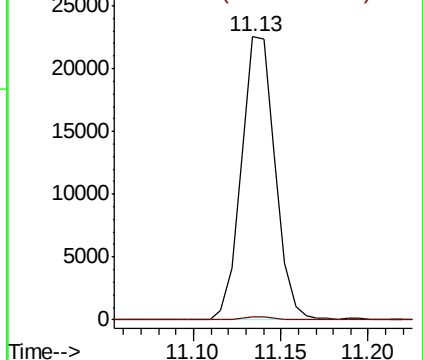
75 100

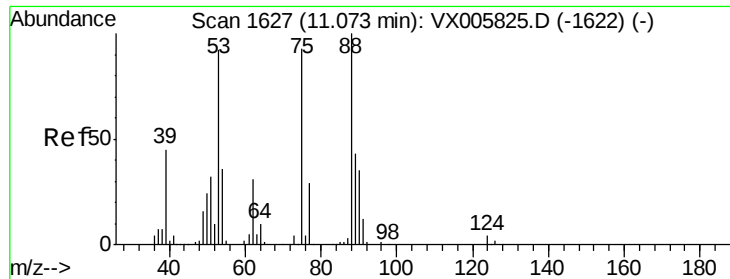
77 1.1 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

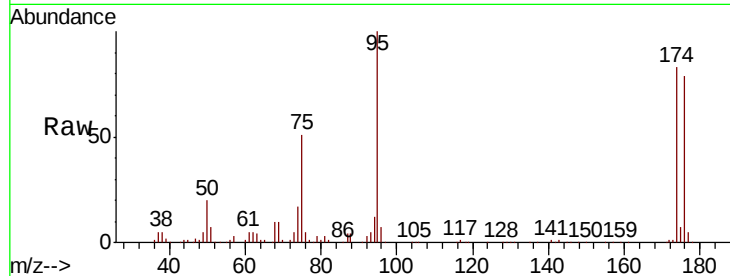




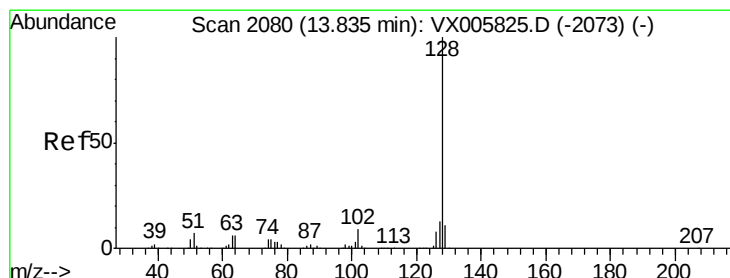
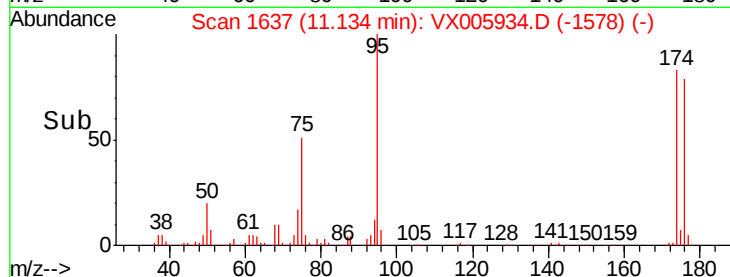
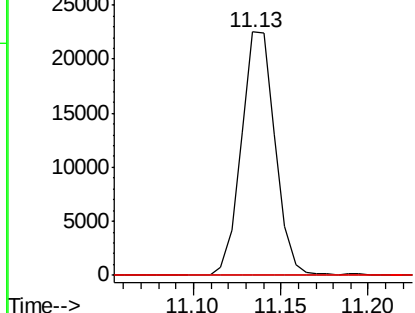
#81
trans-1,4-Dichloro-2-butene
Concen: 72.301 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX005934.D
Acq: 13 Nov 2018 07:05

Instrument :
MSVOA_X
ClientSampled :
DW-10

Tot Ion: 75 Resp: 30163
Ion Ratio Lower Upper
75 100
53 0.1 80.2 120.2#
89 0.0 39.8 59.8#

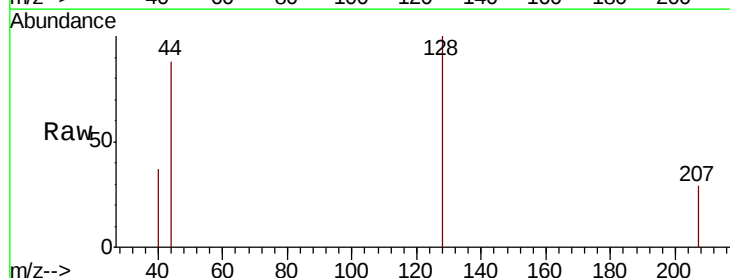


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95
Naphthalene
Concen: 1.222 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005934.D
Acq: 13 Nov 2018 07:05

Tgt Ion: 128 Resp: 214
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.7 13.1#



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

