

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101818\
 Data File : VX005427.D
 Acq On : 18 Oct 2018 13:56
 Operator : JC/MD
 Sample : J5584-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Quant Time: Oct 19 03:32:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	329464	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	469646	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	414117	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202701	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	174095	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
35) Dibromofluoromethane	5.50	113	142869	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	
50) Toluene-d8	8.72	98	556810	52.14	ug/l	0.00
Spiked Amount			Recovery	=	104.28%	
62) 4-Bromofluorobenzene	11.14	95	187045	46.63	ug/l	0.00
Spiked Amount			Recovery	=	93.26%	

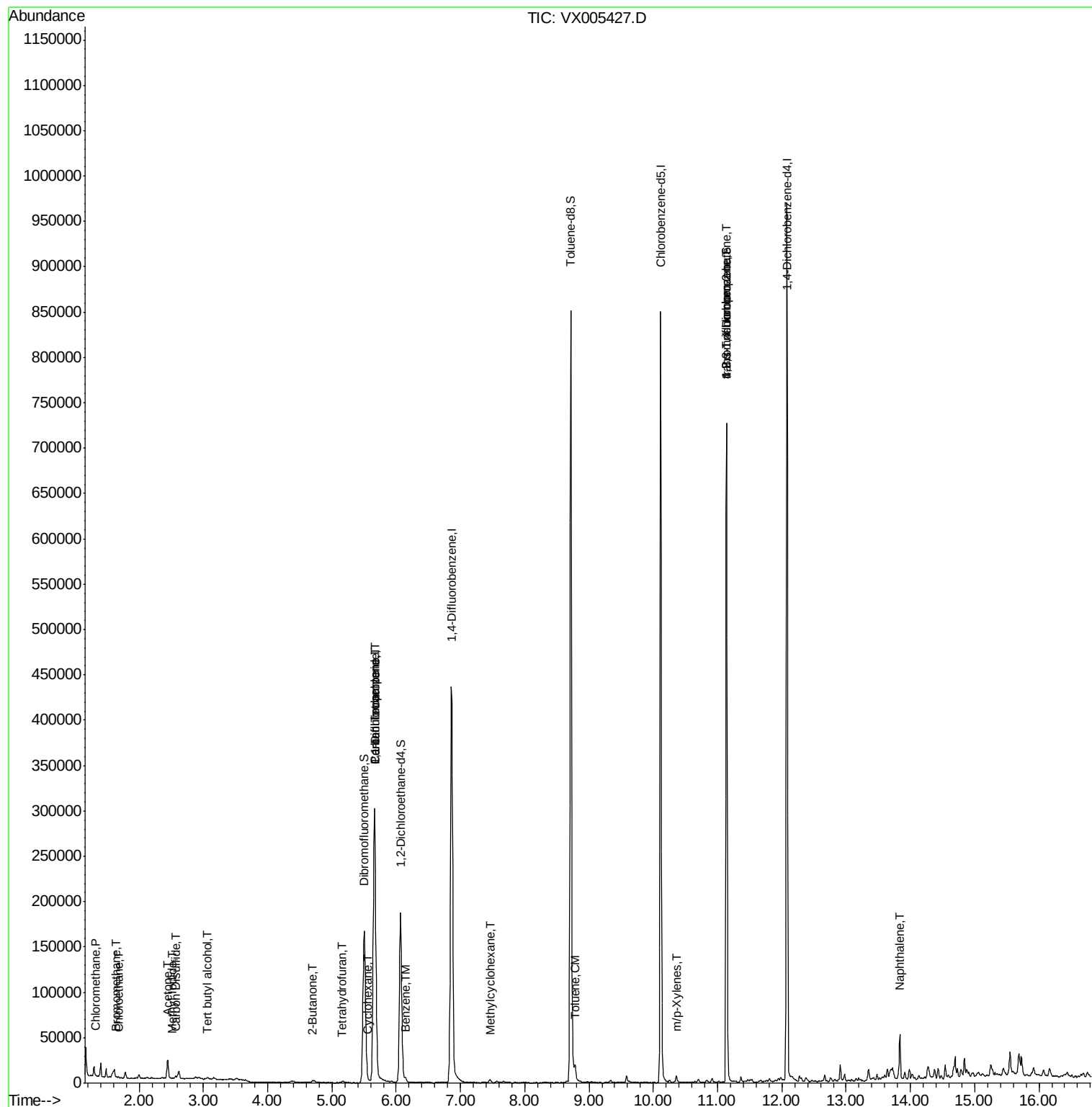
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	767	0.205	ug/l	96
5) Bromomethane	1.64	94	704	0.910	ug/l	87
6) Chloroethane	1.70	64	121	0.384	ug/l #	44
10) Methyl Iodide	2.52	142	643	2.680	ug/l #	94
11) Tert butyl alcohol	3.07	59	2690	2.608	ug/l #	80
13) Acrolein	2.29	56	245	Below Cal	#	46
16) Acetone	2.45	43	21318	10.083	ug/l	100
17) Carbon Disulfide	2.57	76	3087	0.353	ug/l	99
20) Methylene Chloride	2.86	84	434	Below Cal	#	70
25) 2-Butanone	4.71	43	4837	1.564	ug/l	94
29) Tetrahydrofuran	5.16	42	531	0.269	ug/l #	83
31) Cyclohexane	5.57	56	1214	0.242	ug/l #	67
36) 1,1-Dichloropropene	5.66	75	20669	4.544	ug/l #	50
38) Carbon Tetrachloride	5.67	117	28145	6.158	ug/l #	15
39) Methylcyclohexane	7.46	83	1405	0.285	ug/l	91
40) Benzene	6.15	78	4976	0.365	ug/l	92
44) Trichloroethene	7.21	130	168	Below Cal		58
52) Toluene	8.78	92	4198	0.562	ug/l	91
68) m/p-Xylenes	10.36	106	1760	0.317	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	90049	22.903	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	90049	69.589	ug/l #	10
95) Naphthalene	13.83	128	30782	2.202	ug/l	98

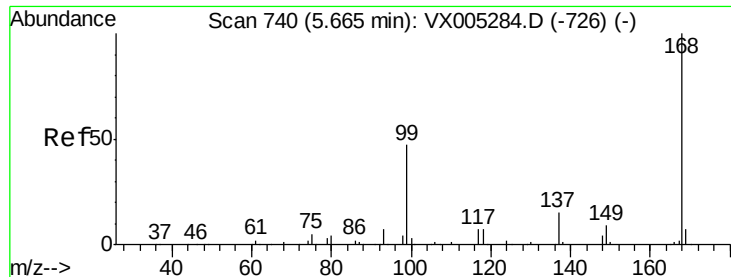
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 11:28:43 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

Instrument :

MSVOA_X

ClientSampled :

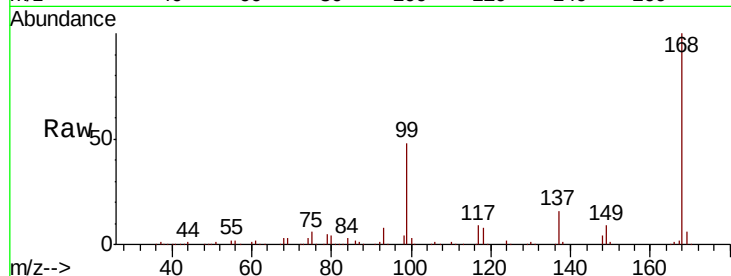
MW-3

Tot Ion:168 Resp: 329464

Ion Ratio Lower Upper

168 100

99 47.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

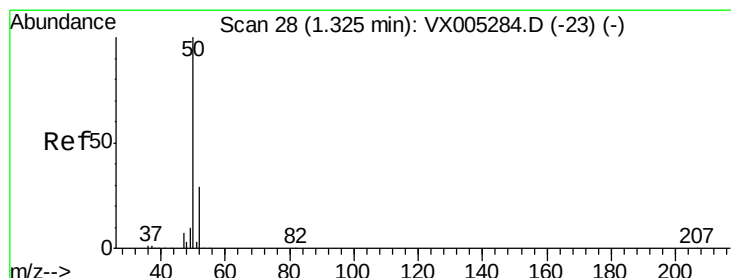
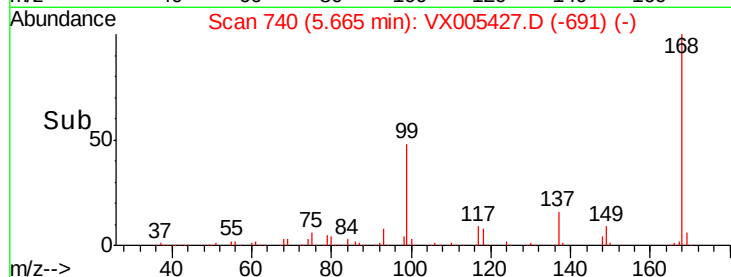
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.205 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005427.D

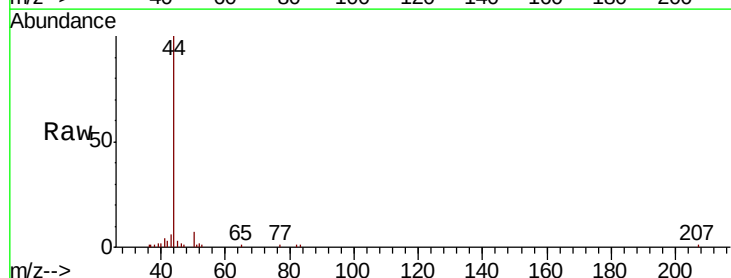
Acq: 18 Oct 2018 13:56

Tgt Ion: 50 Resp: 767

Ion Ratio Lower Upper

50 100

52 35.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

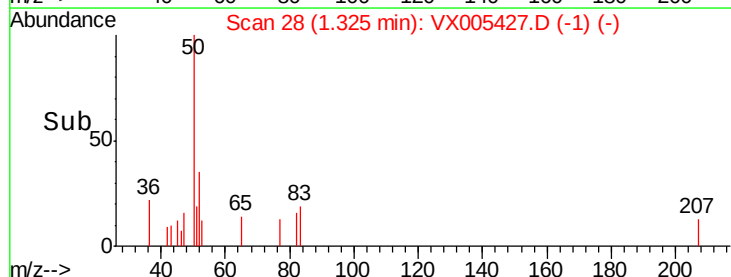
200

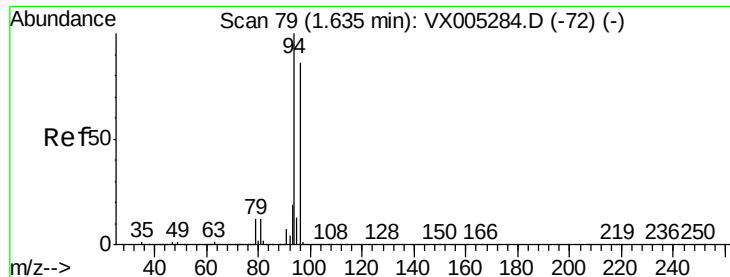
100

0

Time-->

1.25 1.30 1.35





#5

Bromomethane

Concen: 0.910 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

Instrument :

MSVOA_X

ClientSampled :

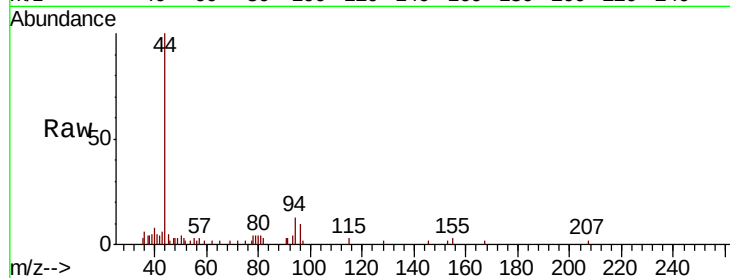
MW-3

Tot Ion: 94 Resp: 704

Ion Ratio Lower Upper

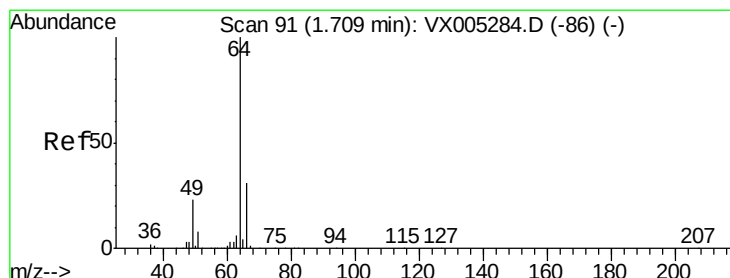
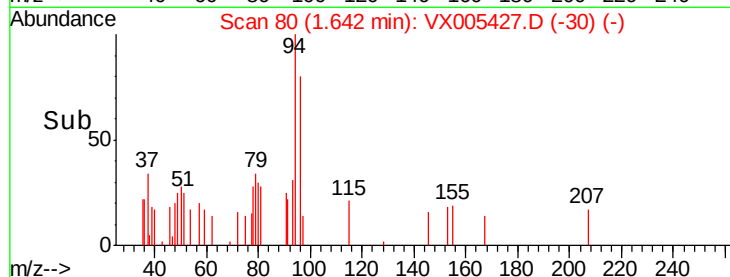
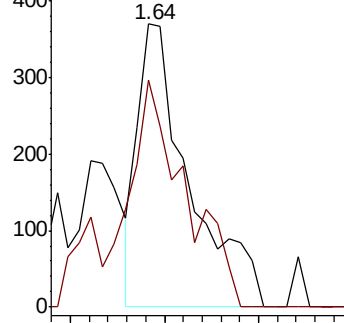
94 100

96 80.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.384 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.01 min

Lab File: VX005427.D

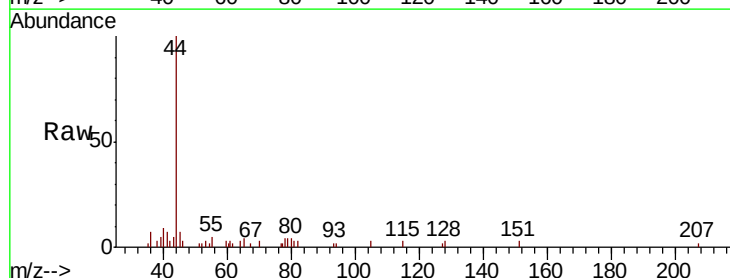
Acq: 18 Oct 2018 13:56

Tgt Ion: 64 Resp: 121

Ion Ratio Lower Upper

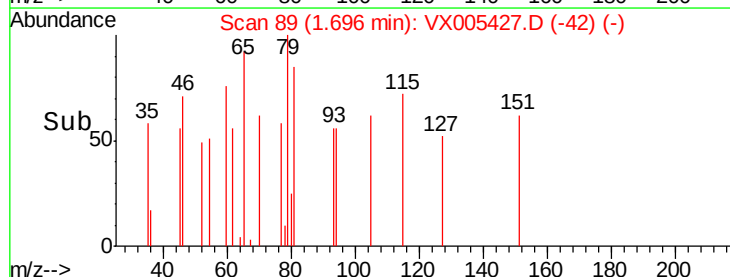
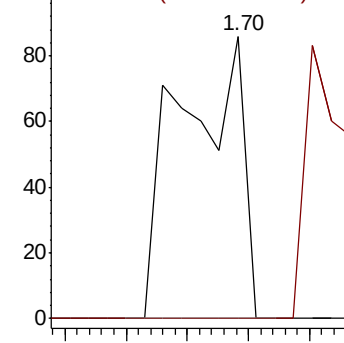
64 100

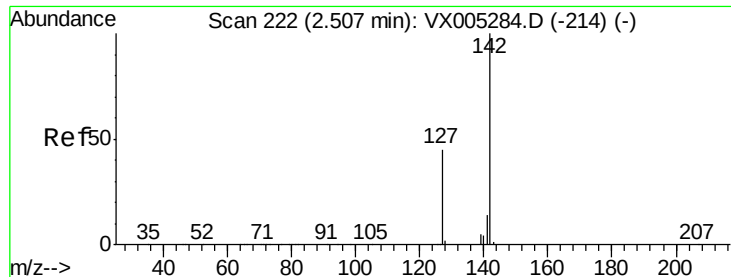
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

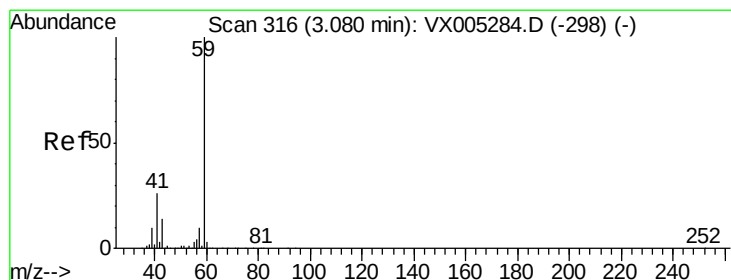
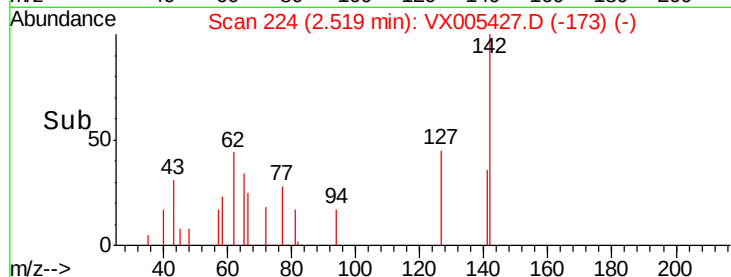
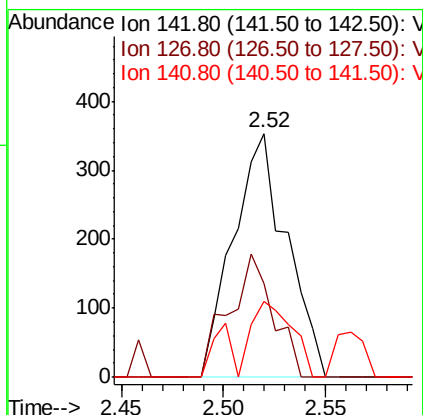
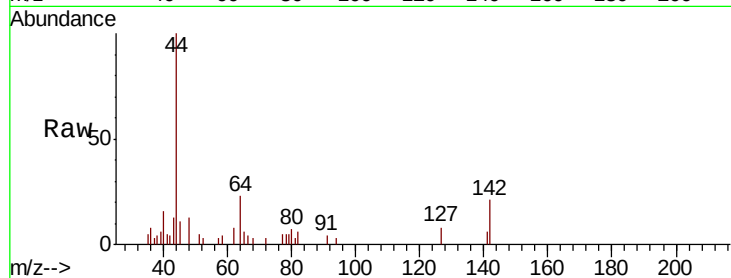




#10
Methyl Iodide
Concen: 2.680 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX005427.D
Acq: 18 Oct 2018 13:56

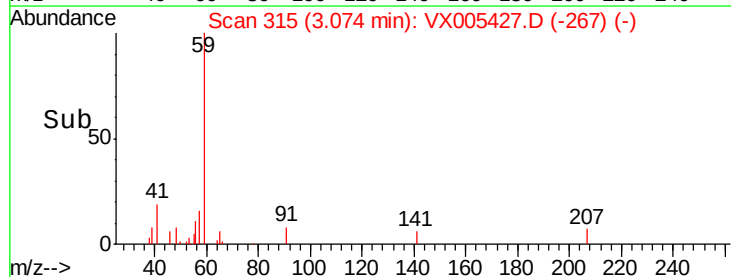
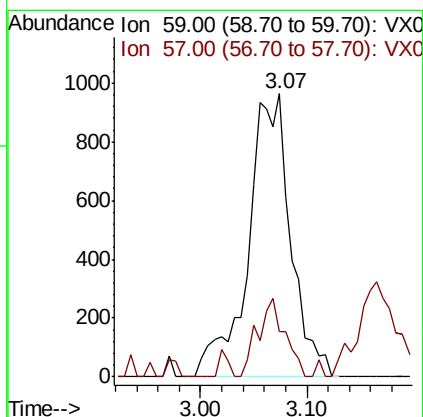
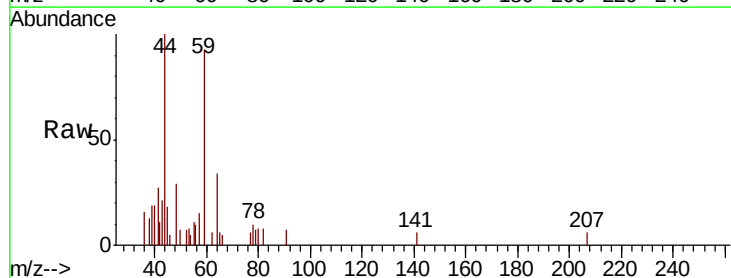
Instrument :
MSVOA_X
ClientSampled :
MW-3

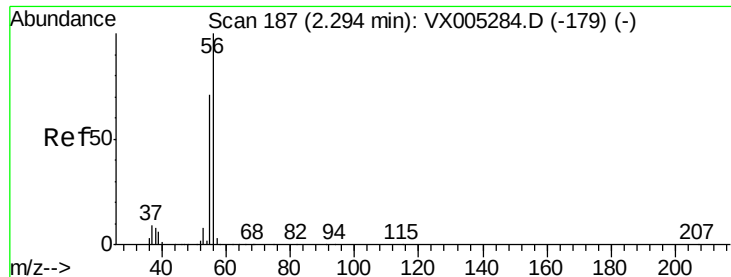
Tot Ion:142 Resp: 643
Ion Ratio Lower Upper
142 100
127 41.8 33.8 50.6
141 23.8 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.608 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX005427.D
Acq: 18 Oct 2018 13:56

Tgt Ion: 59 Resp: 2690
Ion Ratio Lower Upper
59 100
57 17.8 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

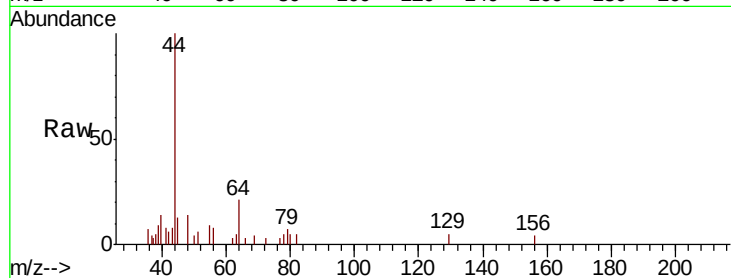
MW-3

Tot Ion: 56 Resp: 245

Ion Ratio Lower Upper

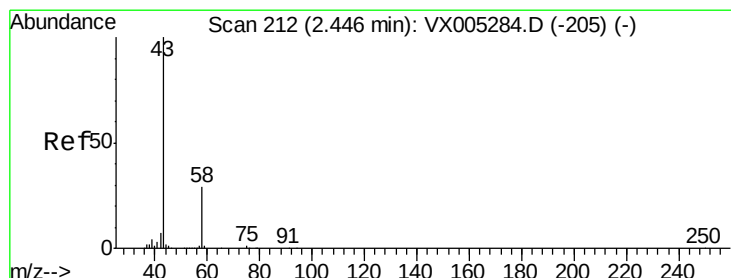
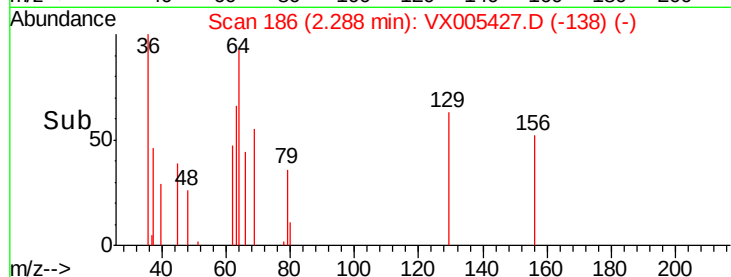
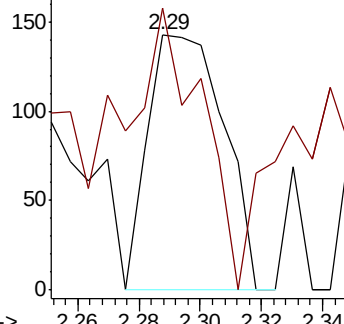
56 100

55 112.2 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 10.083 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005427.D

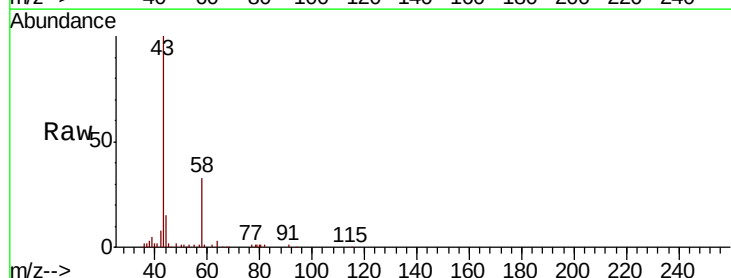
Acq: 18 Oct 2018 13:56

Tgt Ion: 43 Resp: 21318

Ion Ratio Lower Upper

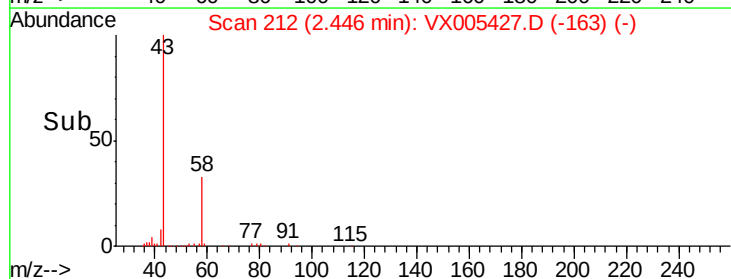
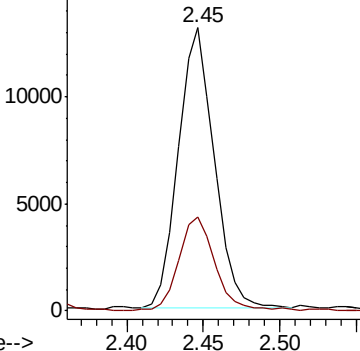
43 100

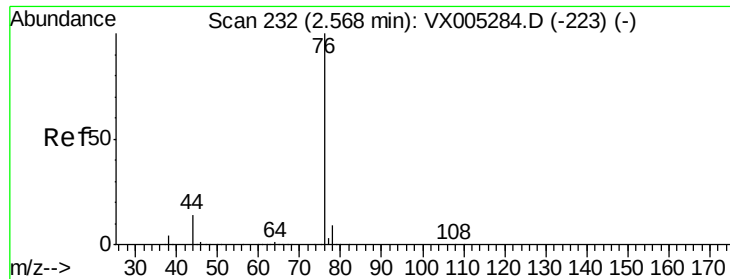
58 32.9 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.353 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

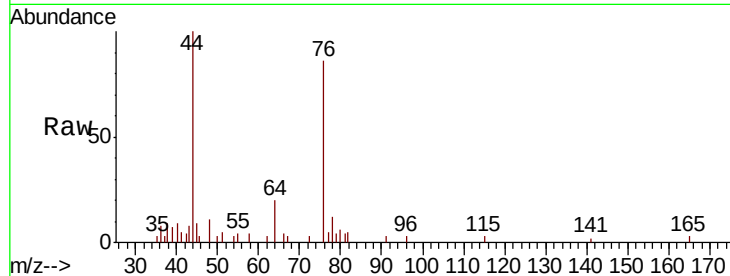
MW-3

Tot Ion: 76 Resp: 3087

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

2000

1500

1000

500

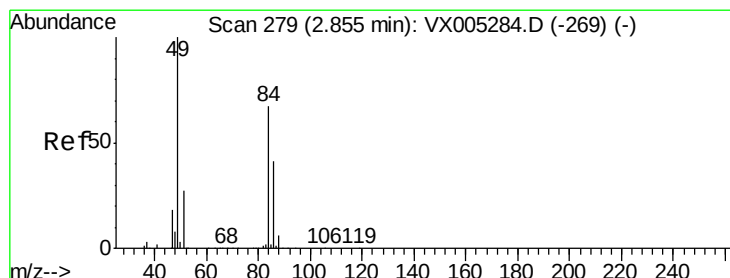
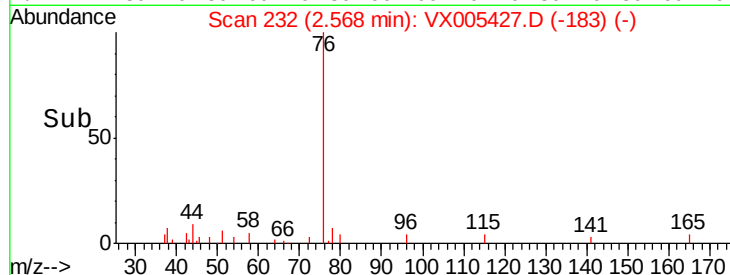
0

2.50

2.55

2.60

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

Tgt Ion: 84 Resp: 434

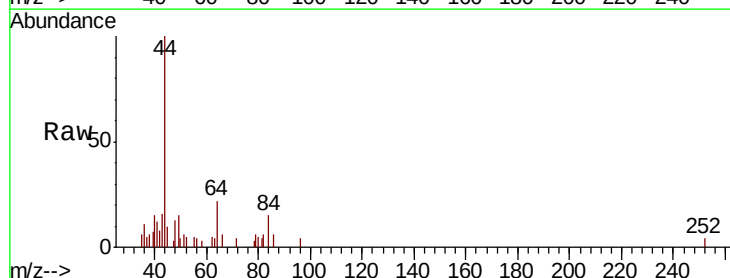
Ion Ratio Lower Upper

84 100

49 93.9 101.2 151.8#

51 17.6 29.5 44.3#

86 40.1 52.3 78.5#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

400

300

200

100

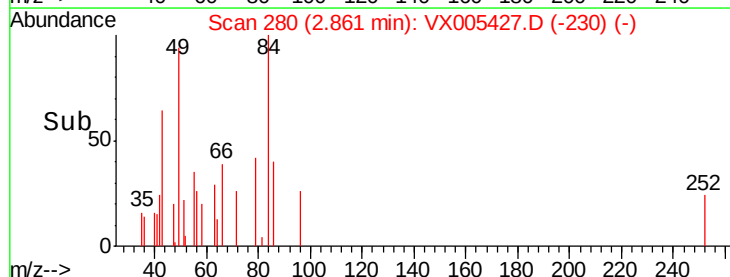
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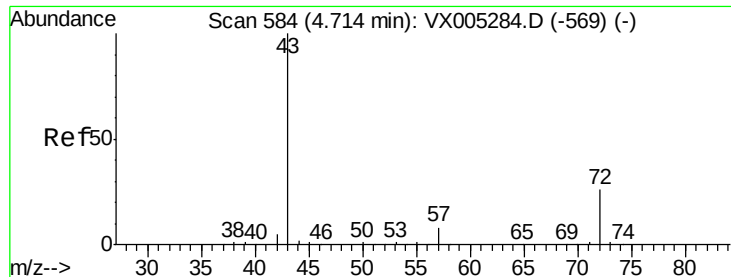
2.80

2.85

2.90

Time-->





#25

2-Butanone

Concen: 1.564 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

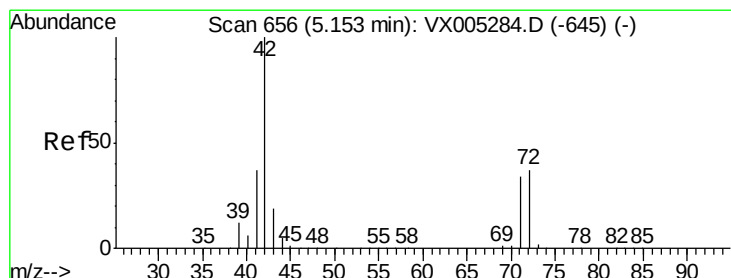
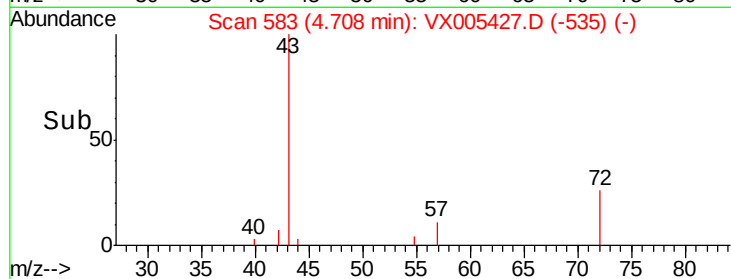
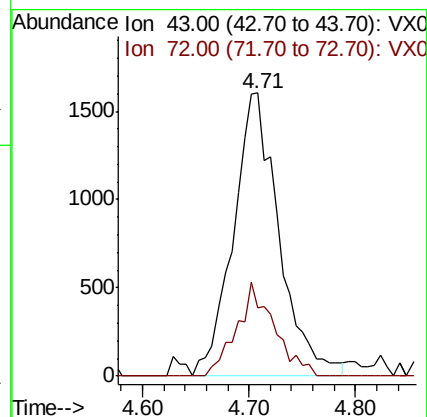
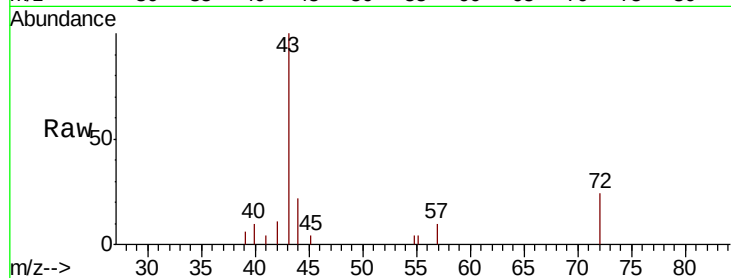
MW-3

Tot Ion: 43 Resp: 4837

Ion Ratio Lower Upper

43 100

72 24.2 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.269 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

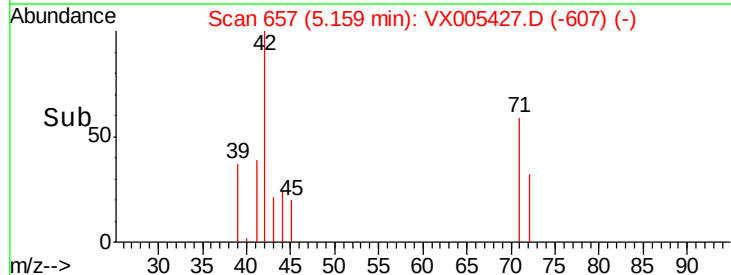
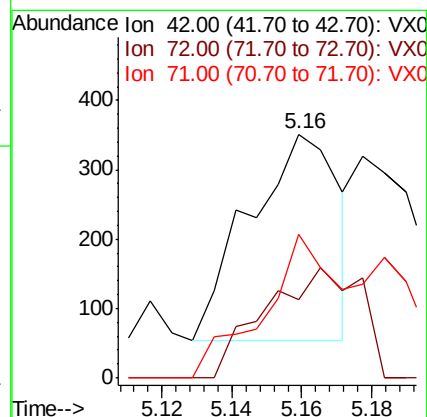
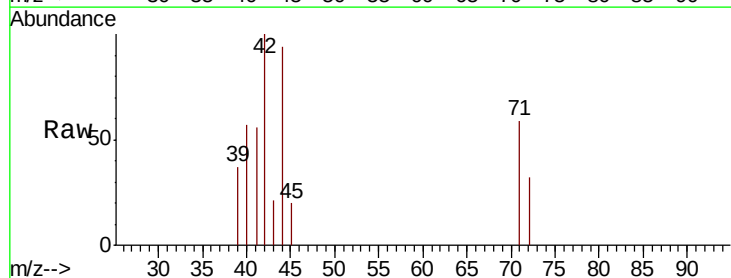
Tgt Ion: 42 Resp: 531

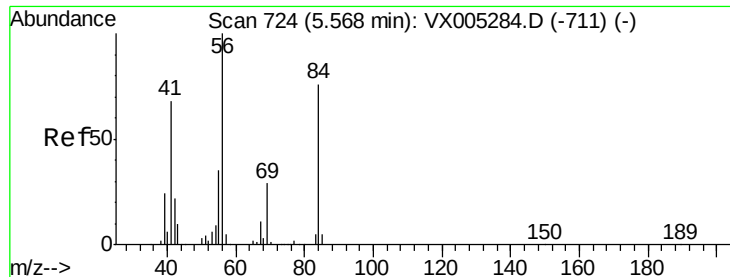
Ion Ratio Lower Upper

42 100

72 56.7 37.4 56.0#

71 55.0 34.5 51.7#

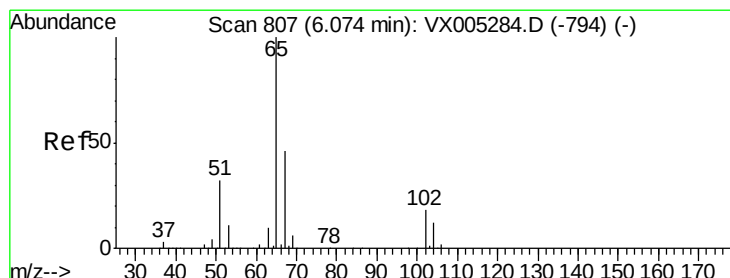
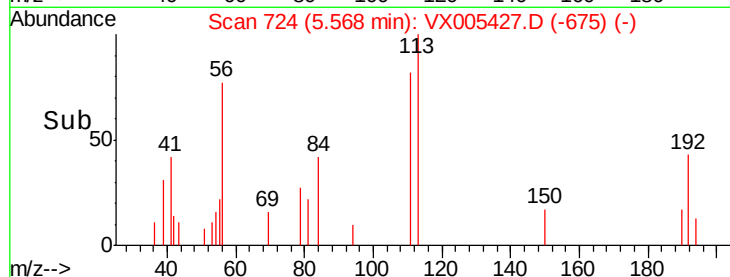
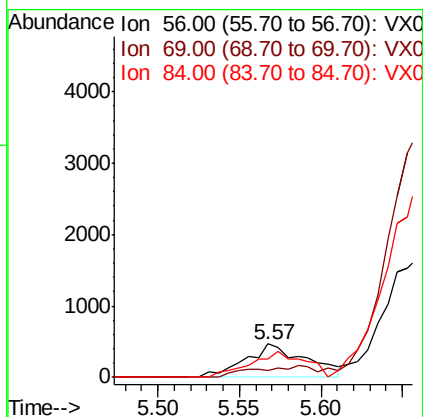
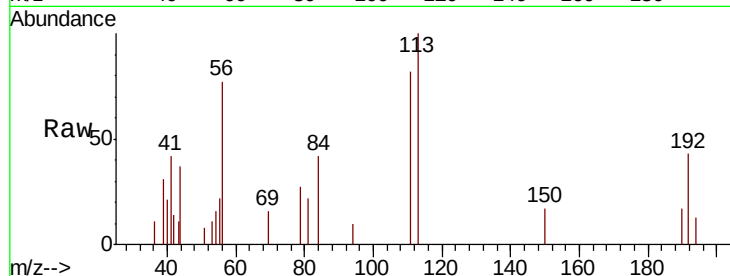




#31
Cyclohexane
Concen: 0.242 ug/l
RT: 5.57 min Scan# 724
Delta R.T. 0.00 min
Lab File: VX005427.D
Acq: 18 Oct 2018 13:56

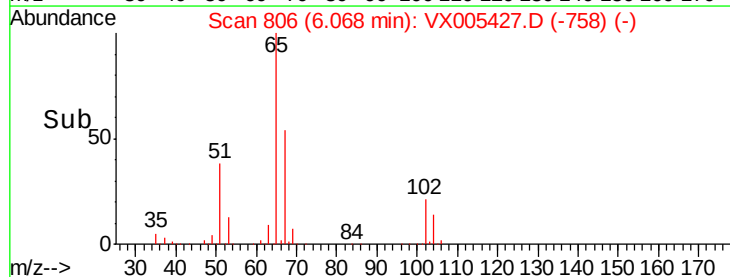
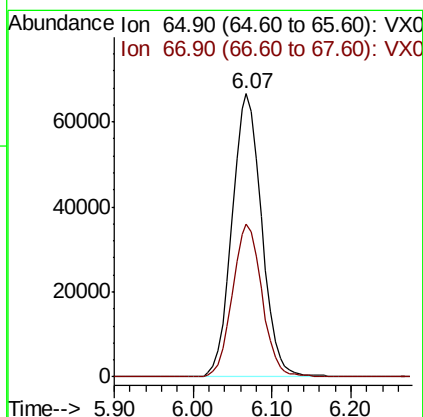
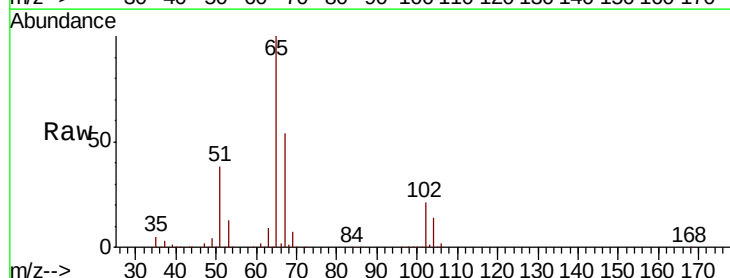
Instrument :
MSVOA_X
ClientSampleId :
MW-3

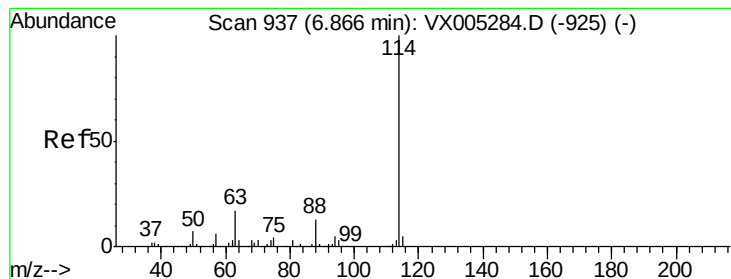
Tot Ion: 56 Resp: 1214
Ion Ratio Lower Upper
56 100
69 20.2 25.4 38.2#
84 53.8 71.4 107.2#



#33
1,2-Dichloroethane-d4
Concen: 47.612 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005427.D
Acq: 18 Oct 2018 13:56

Tgt Ion: 65 Resp: 174095
Ion Ratio Lower Upper
65 100
67 53.7 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

Instrument :

MSVOA_X

ClientSampled :

MW-3

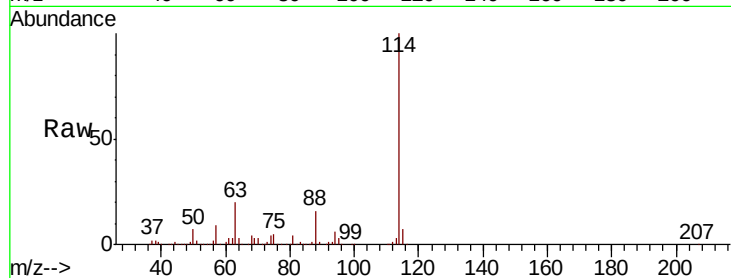
Tot Ion:114 Resp: 469646

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

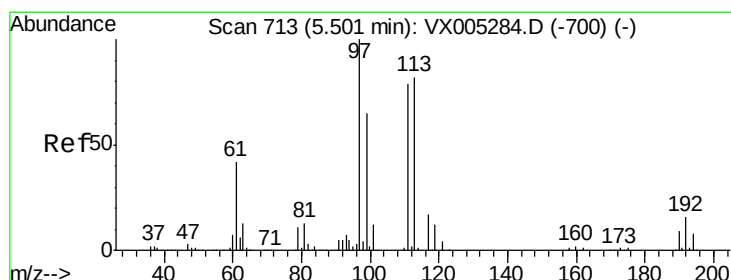
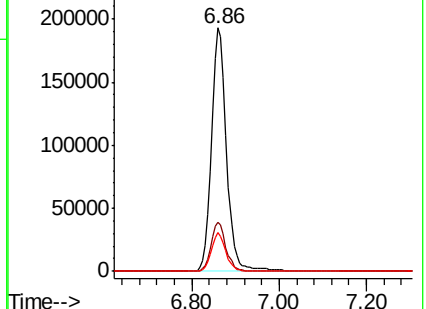
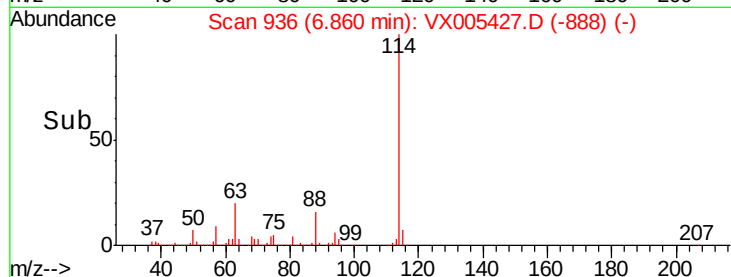
88 15.7 0.0 30.4



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: 45.930 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

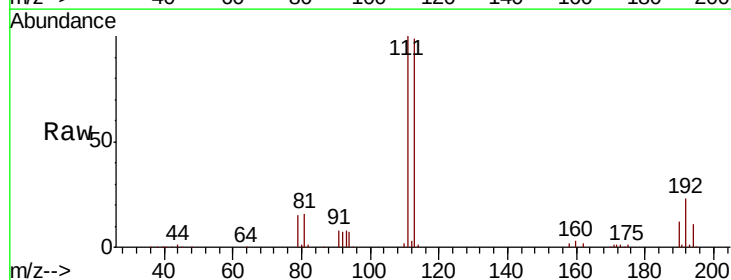
Tgt Ion:113 Resp: 142869

Ion Ratio Lower Upper

113 100

111 102.1 82.4 123.6

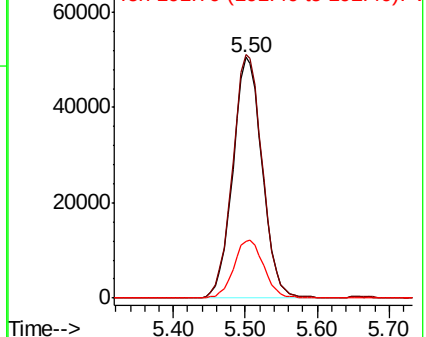
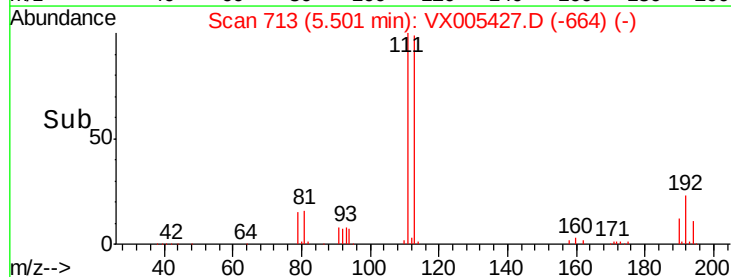
192 24.5 19.4 29.2

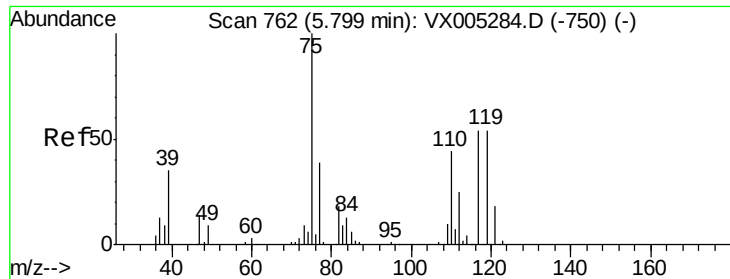


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

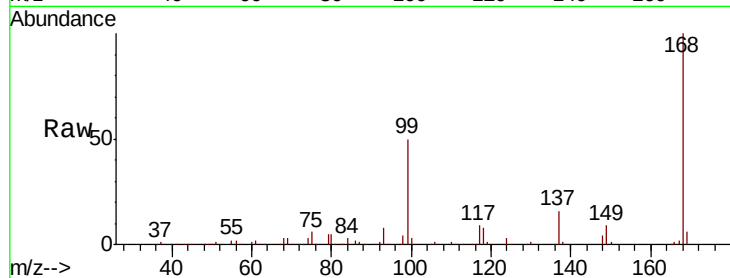




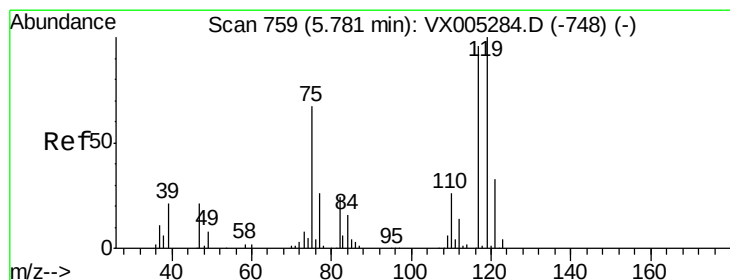
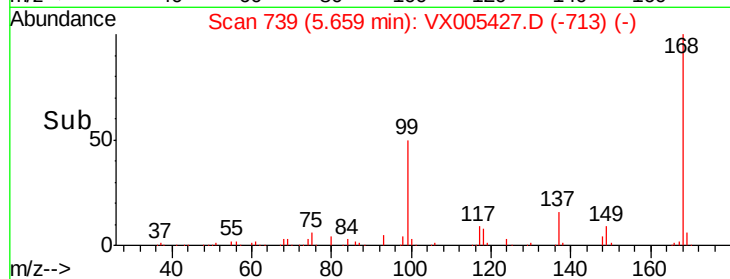
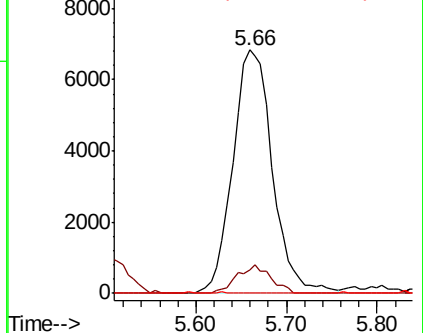
#36
 1,1-Dichloropropene
 Concen: 4.544 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005427.D
 Acq: 18 Oct 2018 13:56

Instrument :
 MSVOA_X
 ClientSampled :
 MW-3

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.0	54.0#
77	0.0	24.6	36.8#

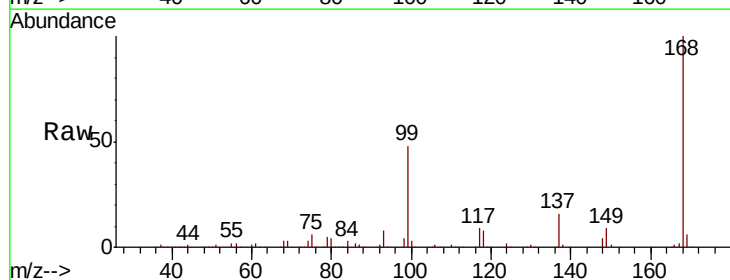


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

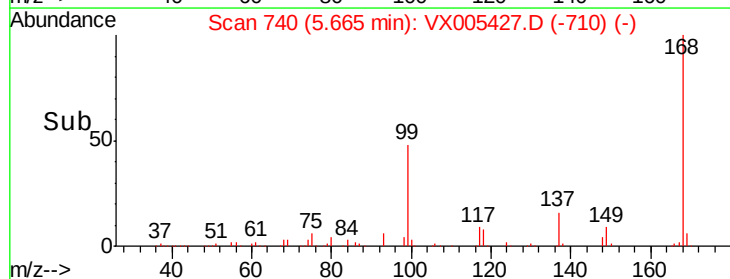
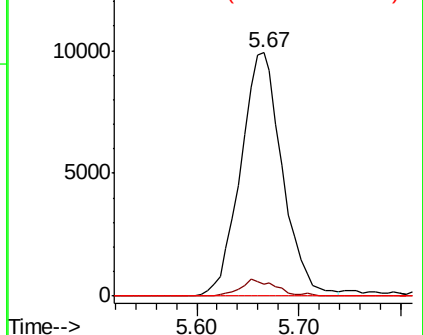


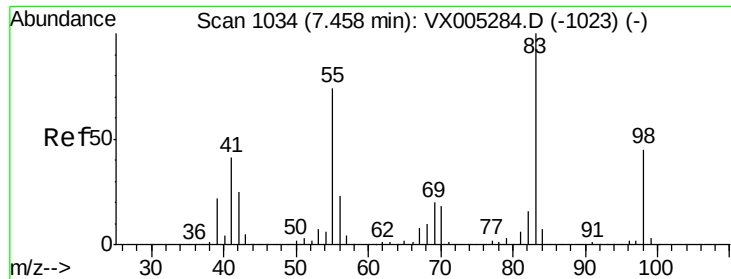
#38
 Carbon Tetrachloride
 Concen: 6.158 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005427.D
 Acq: 18 Oct 2018 13:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	78.8	118.2#
121	0.0	24.9	37.3#



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

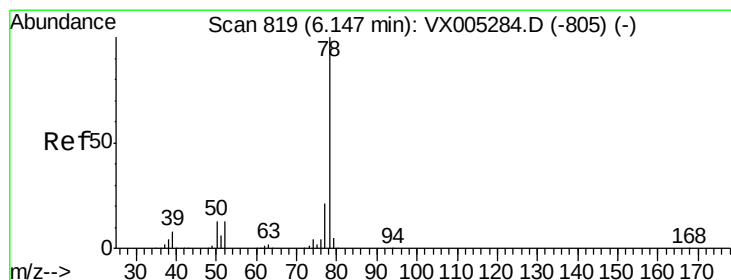
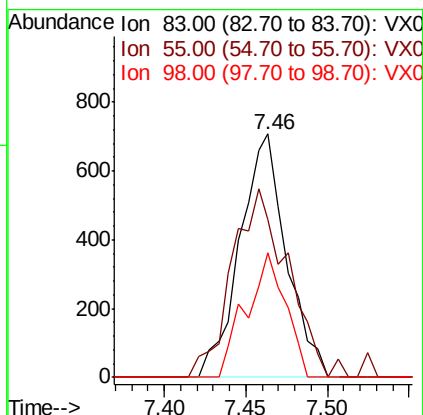
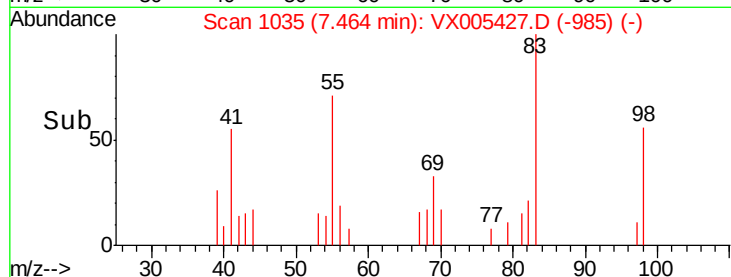
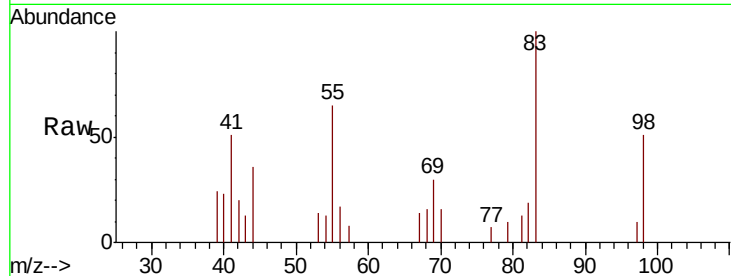




#39
Methylvlcyclohexane
Concen: 0.285 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.01 min
Lab File: VX005427.D
Acq: 18 Oct 2018 13:56

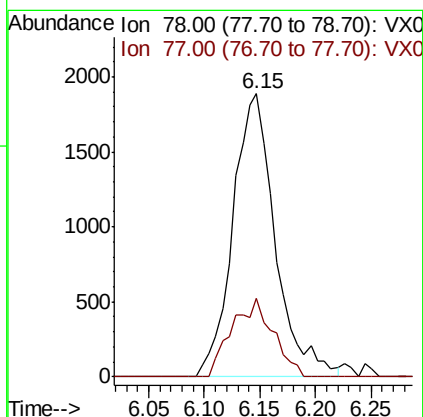
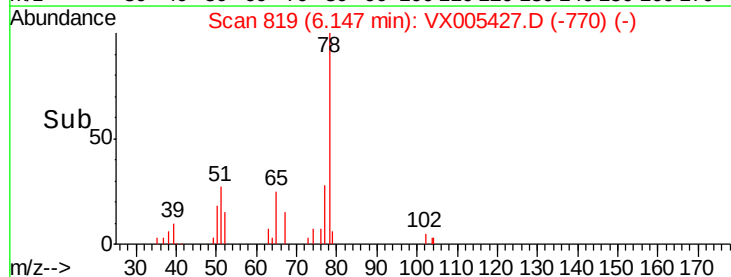
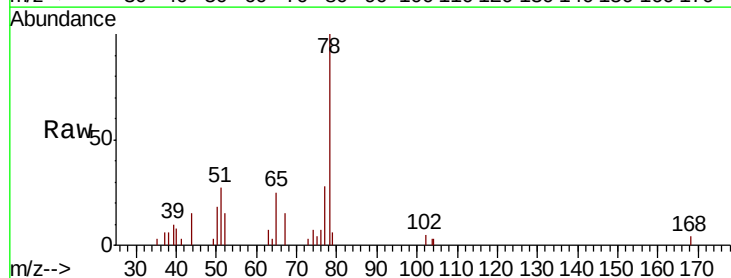
Instrument :
MSVOA_X
ClientSampled :
MW-3

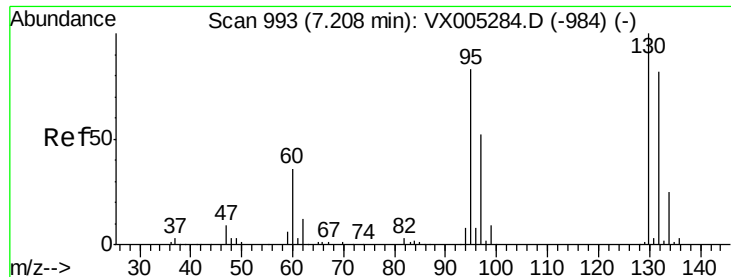
Tot Ion: 83 Resp: 1405
Ion Ratio Lower Upper
83 100
55 64.8 61.0 91.4
98 51.0 39.6 59.4



#40
Benzene
Concen: 0.365 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.00 min
Lab File: VX005427.D
Acq: 18 Oct 2018 13:56

Tgt Ion: 78 Resp: 4976
Ion Ratio Lower Upper
78 100
77 27.6 19.0 28.4





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

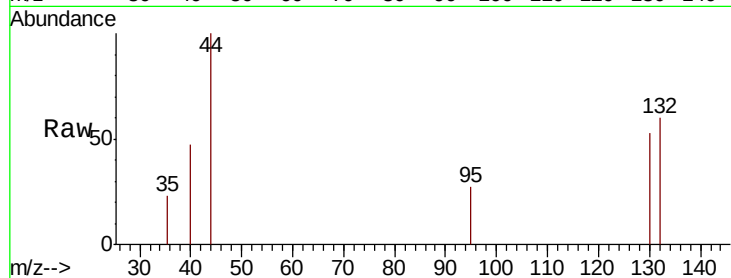
MW-3

Tot Ion:130 Resp: 168

Ion Ratio Lower Upper

130 100

95 51.2 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

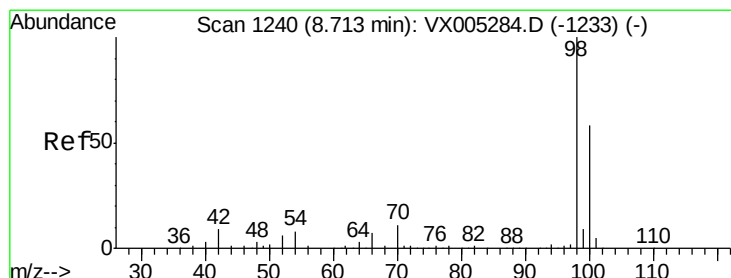
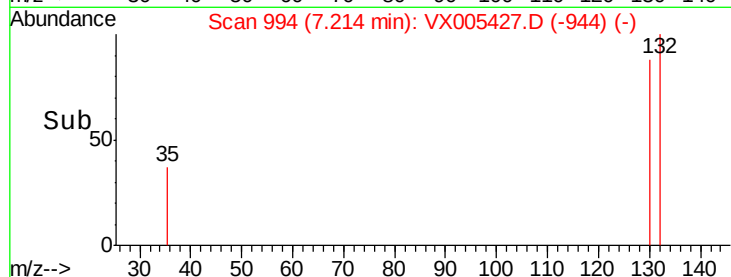
100

50

0

7.18 7.20 7.22 7.24

Time-->



#50

Toluene-d8

Concen: 52.141 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005427.D

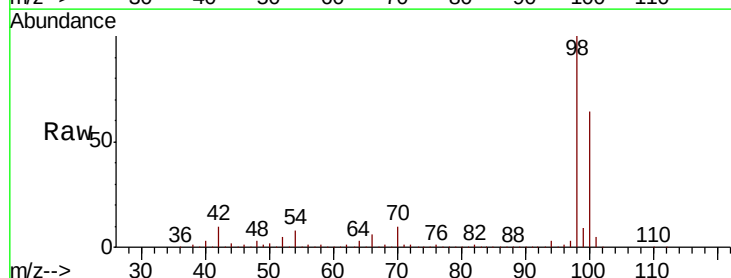
Acq: 18 Oct 2018 13:56

Tgt Ion: 98 Resp: 556810

Ion Ratio Lower Upper

98 100

100 63.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.72

300000

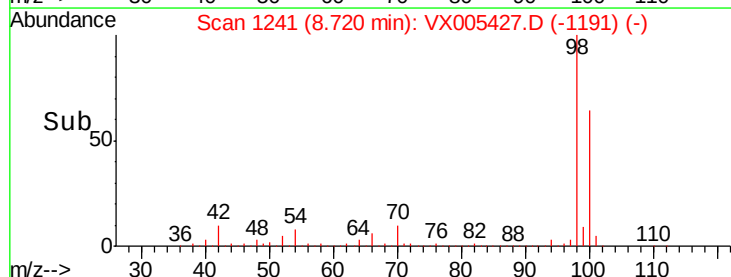
200000

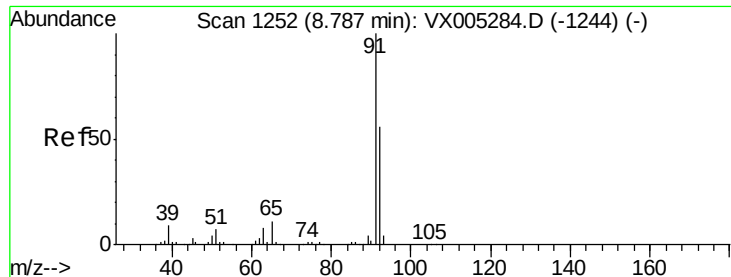
100000

0

8.60 8.70 8.80 8.90

Time-->





#52

Toluene

Concen: 0.562 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

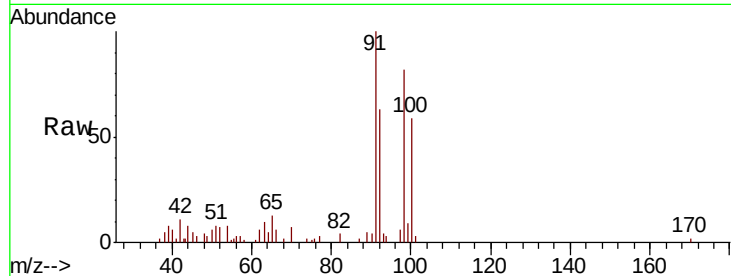
MW-3

Tot Ion: 92 Resp: 4198

Ion Ratio Lower Upper

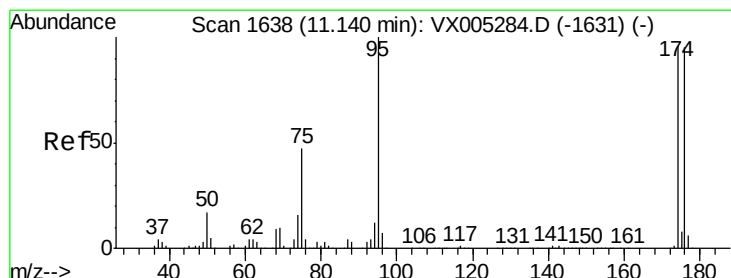
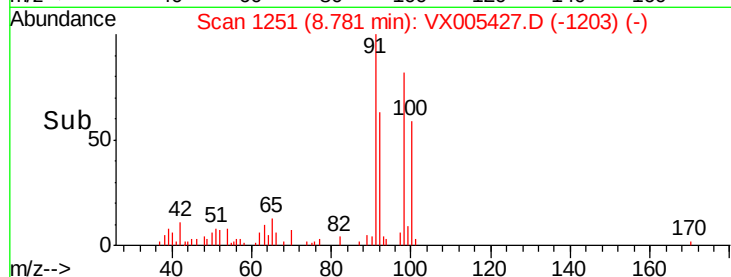
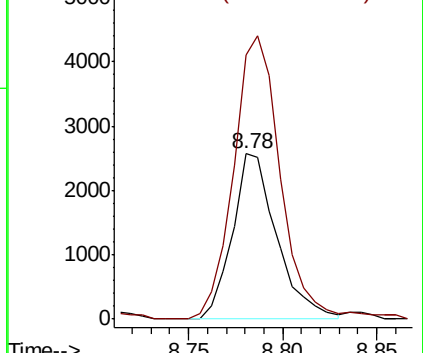
92 100

91 182.4 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.625 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

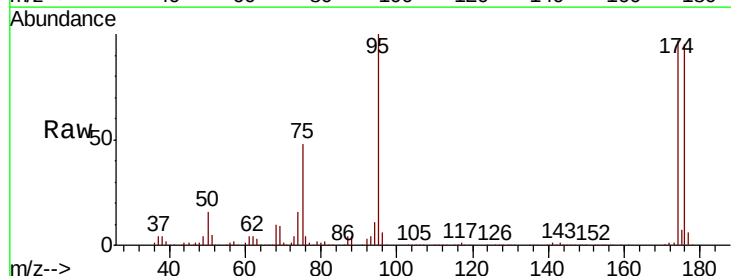
Tgt Ion: 95 Resp: 187045

Ion Ratio Lower Upper

95 100

174 93.7 0.0 185.2

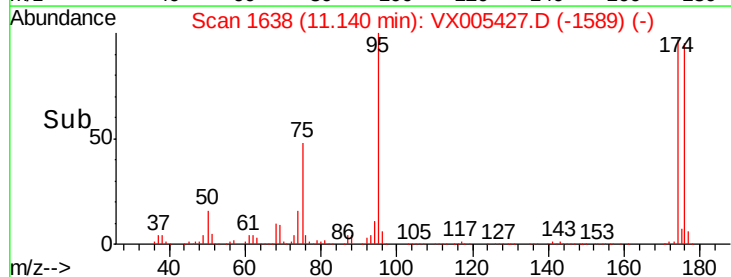
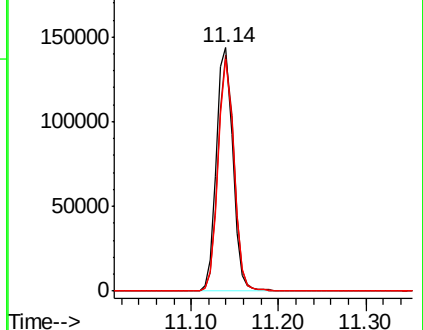
176 91.3 0.0 178.6

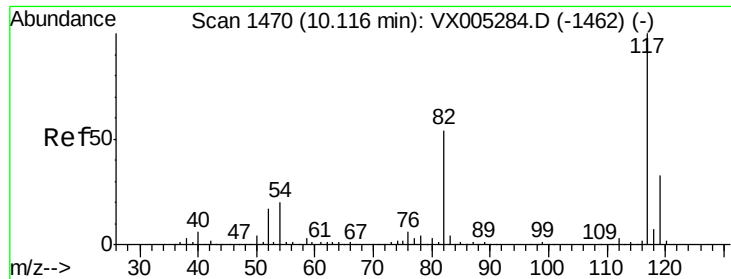


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

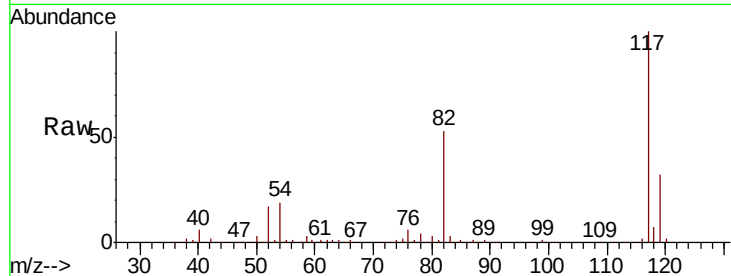




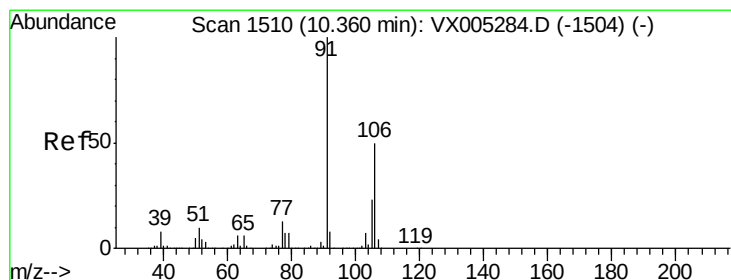
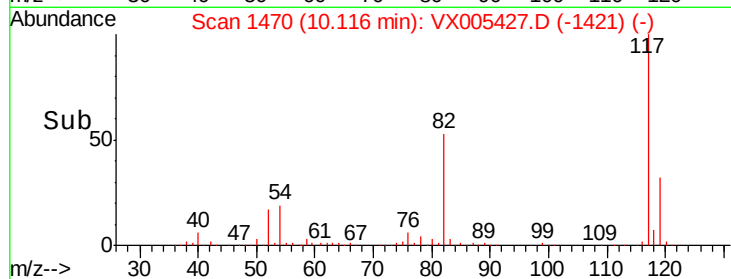
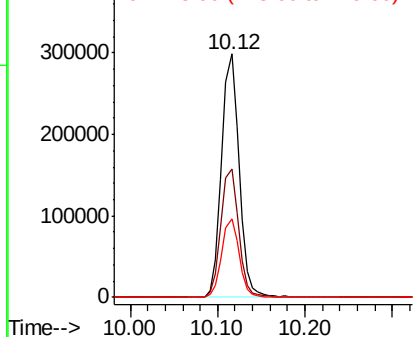
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005427.D
Acq: 18 Oct 2018 13:56

Instrument :
MSVOA_X
ClientSampleId :
MW-3

Tot Ion:117 Resp: 414117
Ion Ratio Lower Upper
117 100
82 53.0 47.8 71.6
119 32.3 29.3 43.9

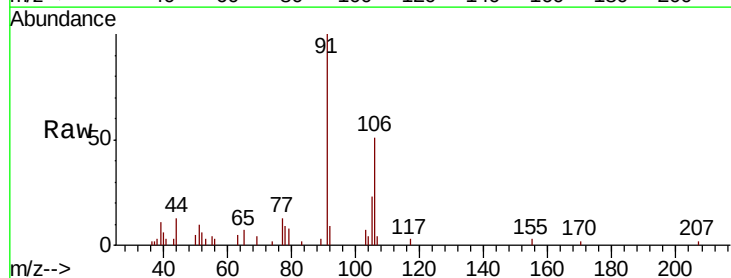


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

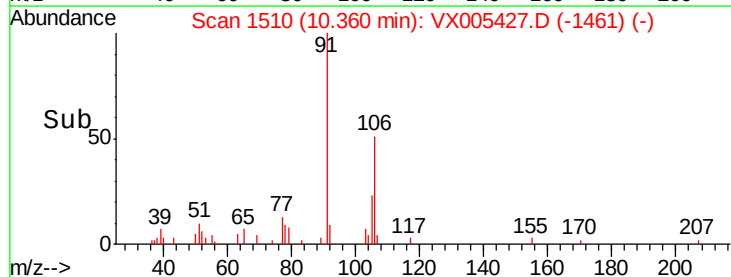
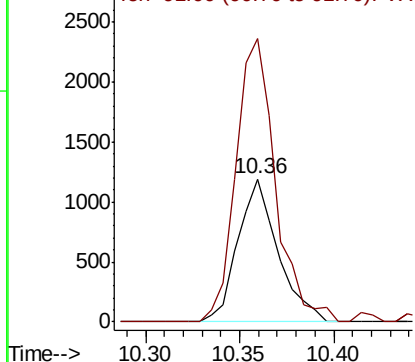


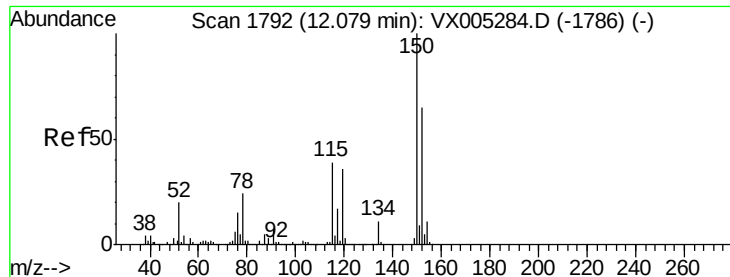
#68
m/p-Xylenes
Concen: 0.317 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX005427.D
Acq: 18 Oct 2018 13:56

Tgt Ion:106 Resp: 1760
Ion Ratio Lower Upper
106 100
91 194.9 157.1 235.7



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005427.D

Acq: 18 Oct 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

MW-3

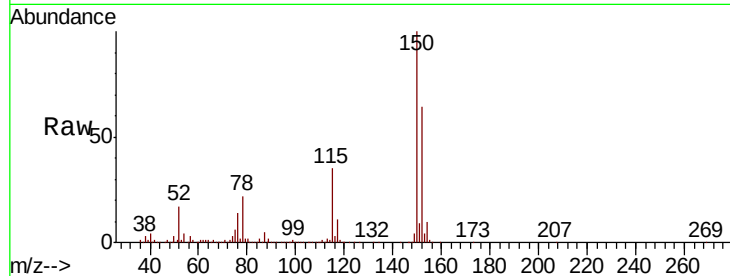
Tot Ion:152 Resp: 202701

Ion Ratio Lower Upper

152 100

115 54.9 39.0 117.0

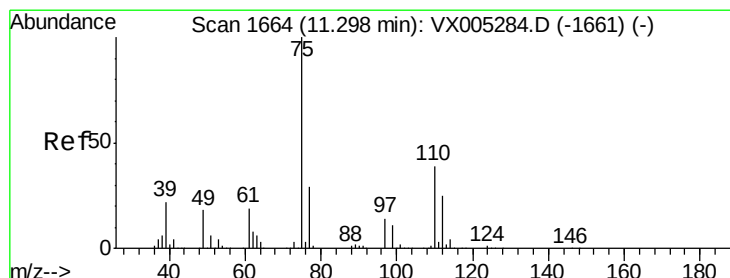
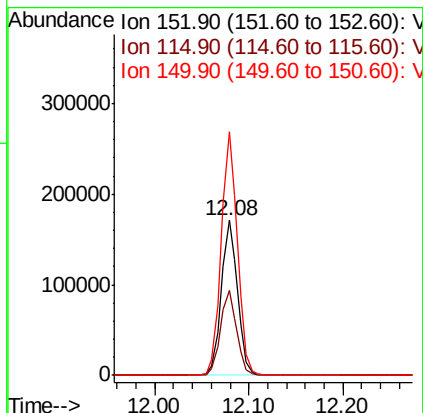
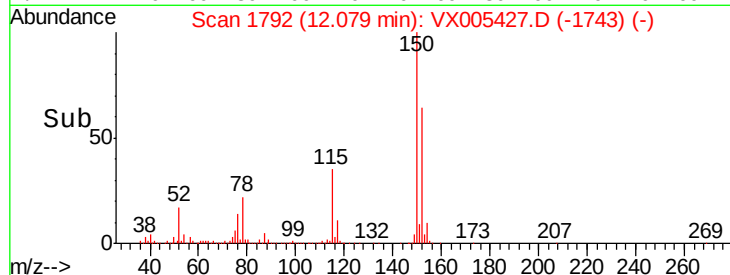
150 157.2 0.0 351.0



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: 22.903 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005427.D

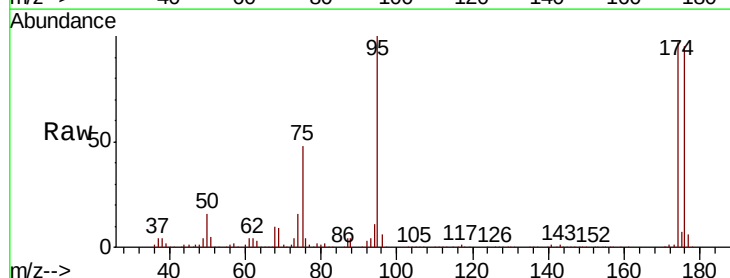
Acq: 18 Oct 2018 13:56

Tgt Ion: 75 Resp: 90049

Ion Ratio Lower Upper

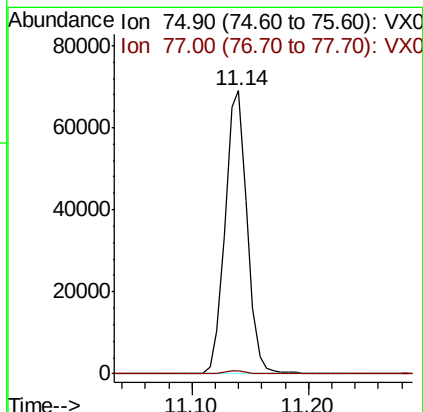
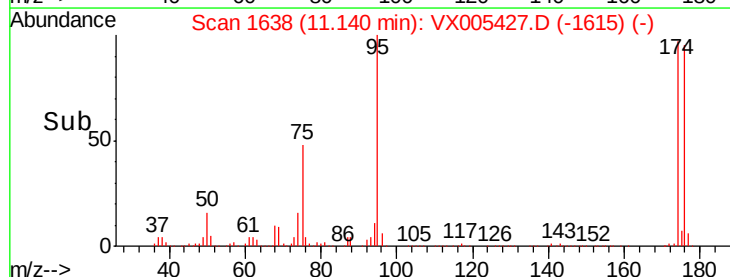
75 100

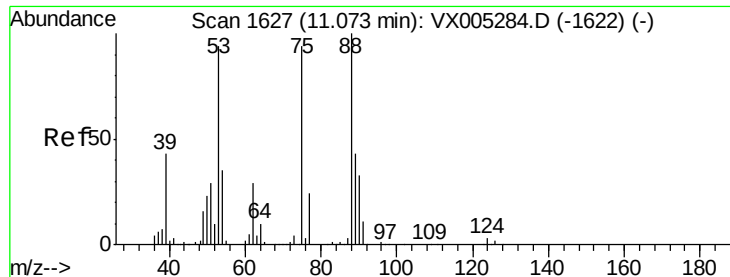
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

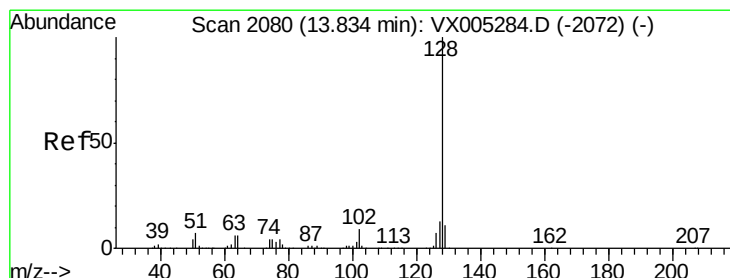
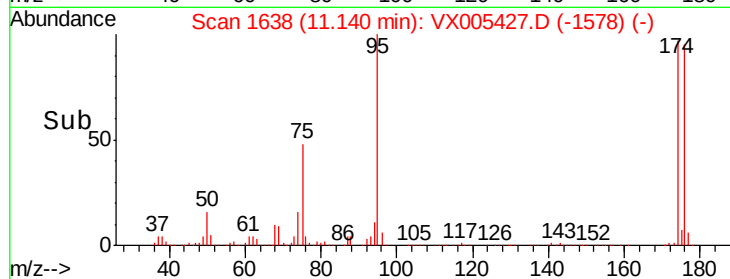
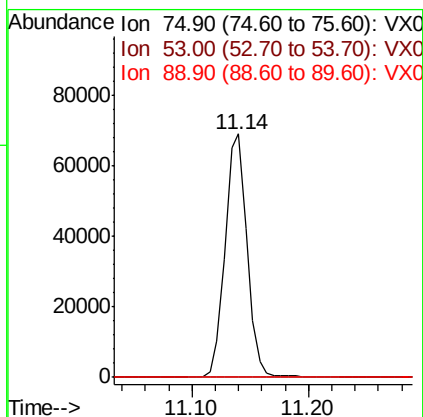
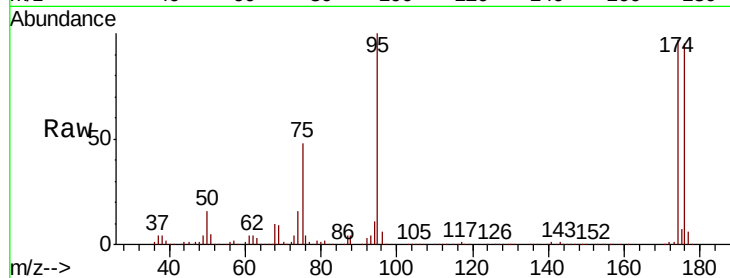




#81
trans-1,4-Dichloro-2-butene
Concen: 69.589 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.07 min
Lab File: VX005427.D
Acq: 18 Oct 2018 13:56

Instrument :
MSVOA_X
ClientSampleId :
MW-3

Tot Ion: 75 Resp: 90049
Ion Ratio Lower Upper
75 100
53 0.2 80.1 120.1#
89 0.0 37.2 55.8#



#95
Naphthalene
Concen: 2.202 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005427.D
Acq: 18 Oct 2018 13:56

Tgt Ion:128 Resp: 30782
Ion Ratio Lower Upper
128 100
127 13.1 10.2 15.2
129 12.1 8.6 12.8

