

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\
 Data File : VX005473.D
 Acq On : 22 Oct 2018 16:33
 Operator : JC/MD
 Sample : PB114041ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114041ZHE#03

Quant Time: Oct 23 01:27:32 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	227986	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	330959	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	302349	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143351	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	141850	56.06	ug/l	0.00
Spiked Amount			Recovery	=	112.12%	
35) Dibromofluoromethane	5.50	113	111653	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
50) Toluene-d8	8.72	98	402691	53.51	ug/l	0.00
Spiked Amount			Recovery	=	107.02%	
62) 4-Bromofluorobenzene	11.14	95	132575	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	

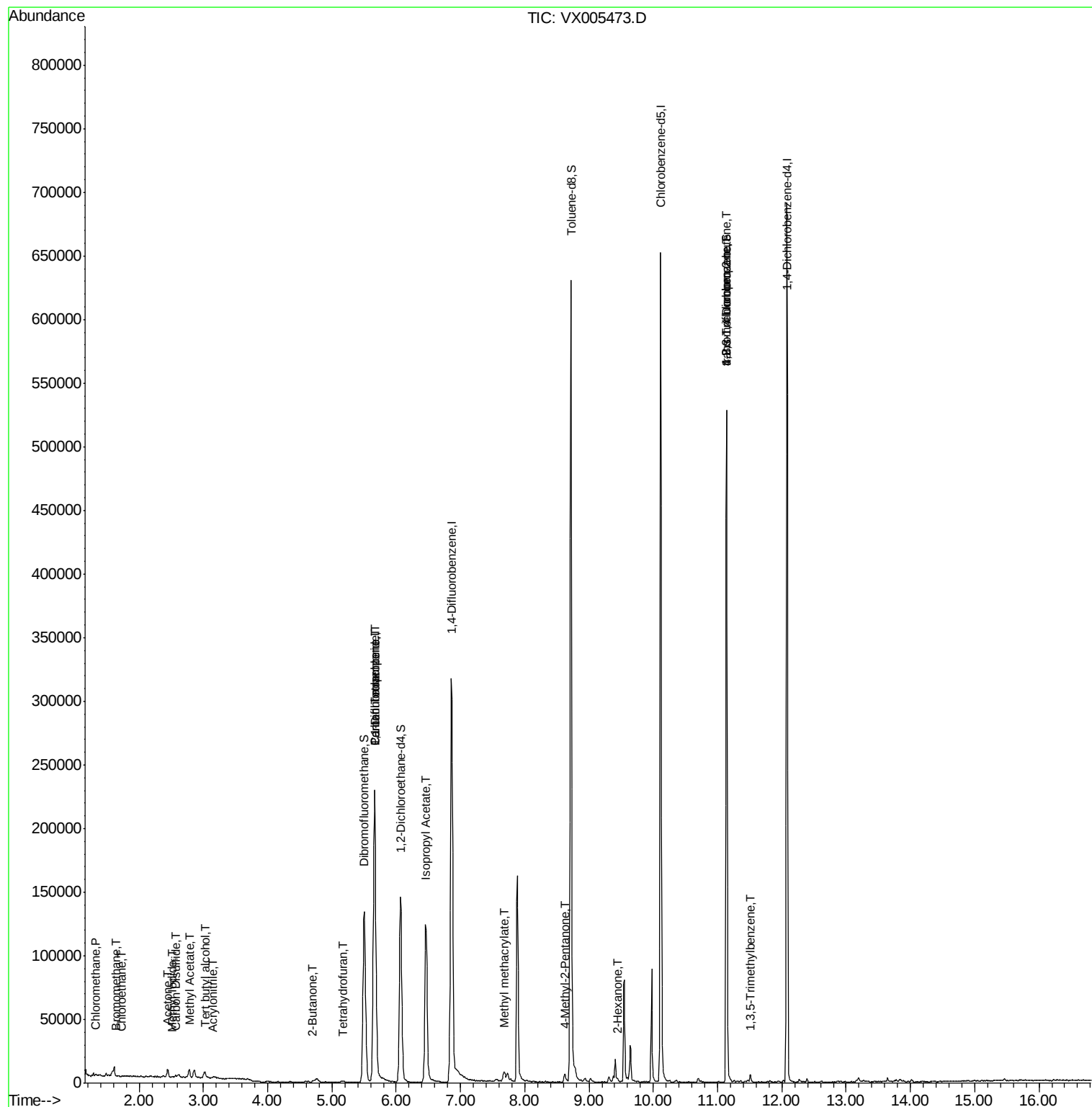
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	517	0.200	ug/l	89
5) Bromomethane	1.65	94	585	0.975	ug/l	96
6) Chloroethane	1.72	64	650	0.714	ug/l #	46
10) Methyl Iodide	2.51	142	361	2.644	ug/l #	78
11) Tert butyl alcohol	3.02	59	3559	4.986	ug/l #	72
13) Acrolein	2.29	56	142	Below Cal	#	78
15) Acrylonitrile	3.15	53	579	0.358	ug/l #	67
16) Acetone	2.44	43	6390	4.368	ug/l	90
17) Carbon Disulfide	2.57	76	1336	0.221	ug/l #	93
18) Methyl Acetate	2.78	43	7691	1.848	ug/l	96
25) 2-Butanone	4.70	43	1802	0.842	ug/l	92
29) Tetrahydrofuran	5.17	42	1153	0.844	ug/l #	62
36) 1,1-Dichloropropene	5.66	75	16096	5.022	ug/l #	49
38) Carbon Tetrachloride	5.67	117	20535	6.376	ug/l #	14
43) Isopropyl Acetate	6.46	43	175150	31.897	ug/l	94
44) Trichloroethene	7.21	130	199	Below Cal		64
48) Methyl methacrylate	7.68	41	5706	2.004	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2139	0.563	ug/l #	34
59) 2-Hexanone	9.44	43	1174	0.384	ug/l #	22
76) 1,2,3-Trichloropropane	11.14	75	66533	23.928	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	1956	0.268	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.14	75	66533	72.703	ug/l #	10

(#) = 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: VX005473.D

Acq: 22 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

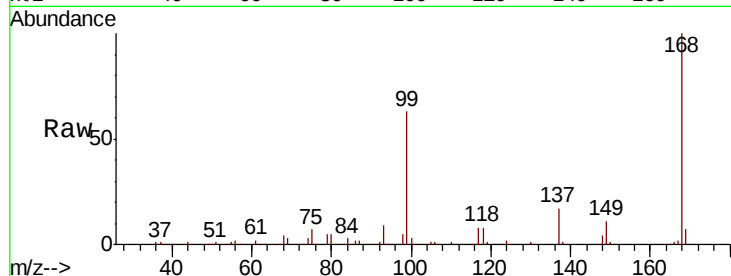
PB114041ZHE#03

Tot Ion:168 Resp: 227986

Ion Ratio Lower Upper

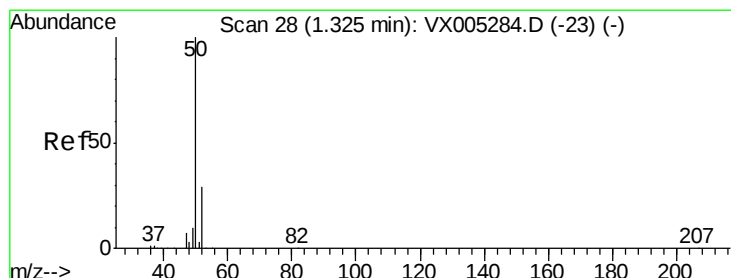
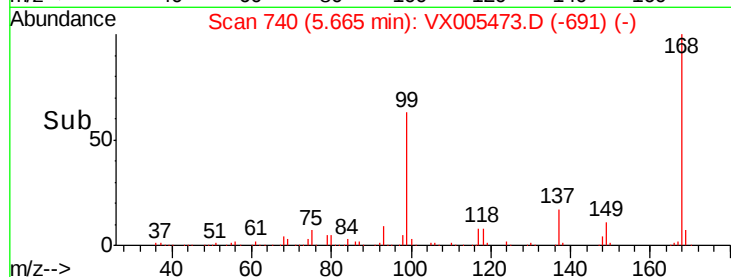
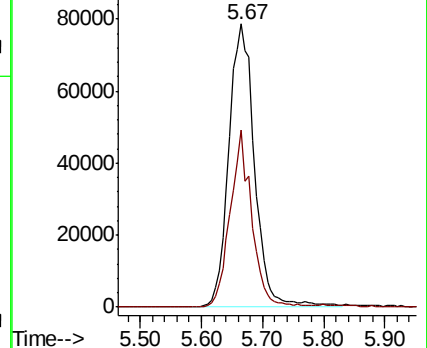
168 100

99 62.6 39.9 59.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.200 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005473.D

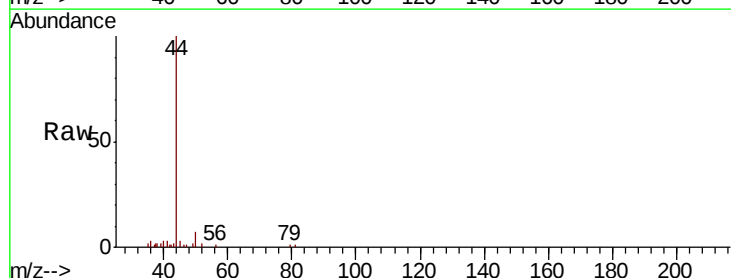
Acq: 22 Oct 2018 16:33

Tgt Ion: 50 Resp: 517

Ion Ratio Lower Upper

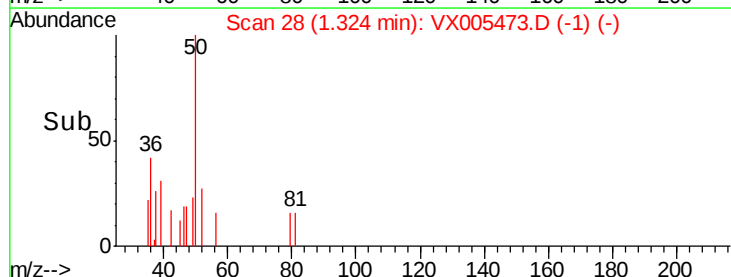
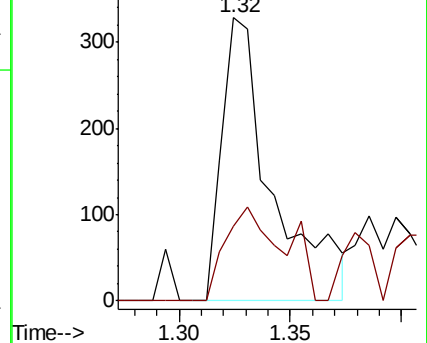
50 100

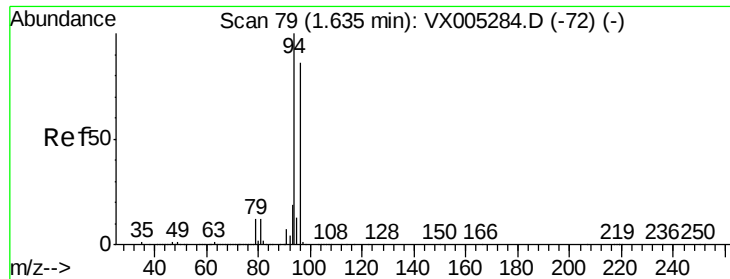
52 26.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.975 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

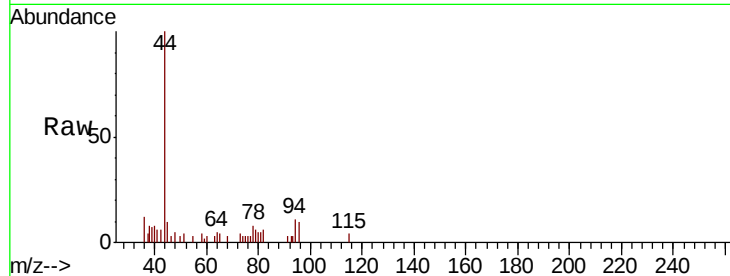
PB114041ZHE#03

Tot Ion: 94 Resp: 585

Ion Ratio Lower Upper

94 100

96 89.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

150

100

50

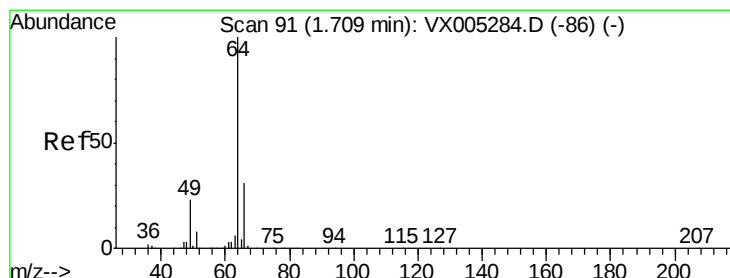
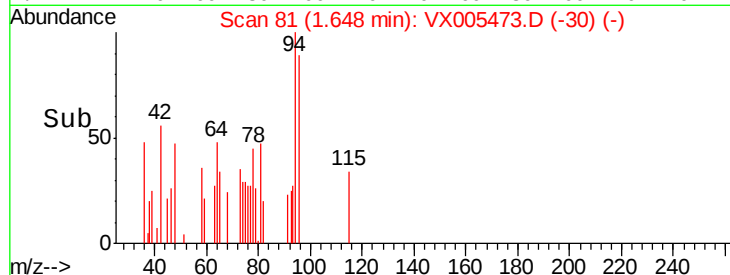
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: 0.714 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005473.D

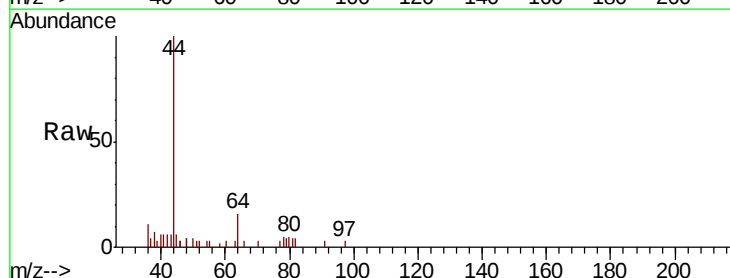
Acq: 22 Oct 2018 16:33

Tgt Ion: 64 Resp: 650

Ion Ratio Lower Upper

64 100

66 1.1 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

400

300

200

100

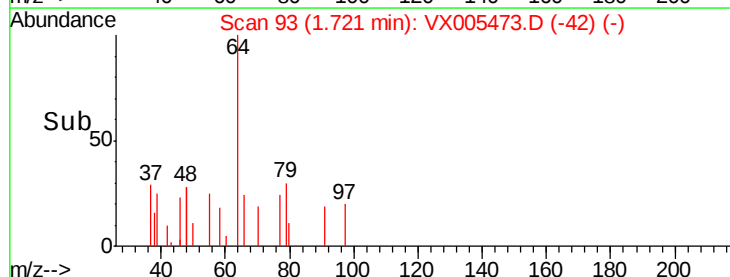
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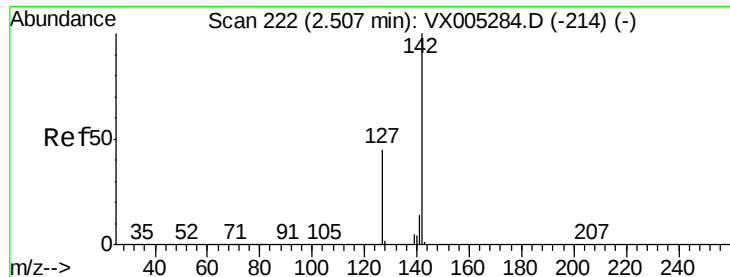
1.65

1.70

1.75

Time-->

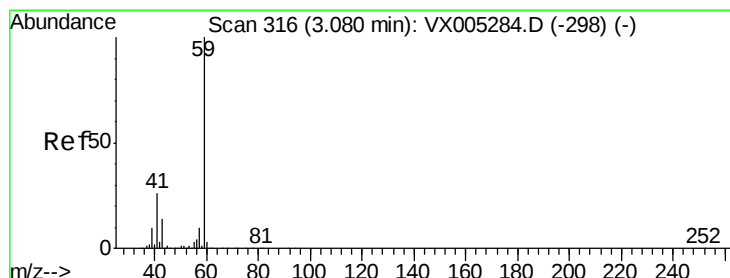
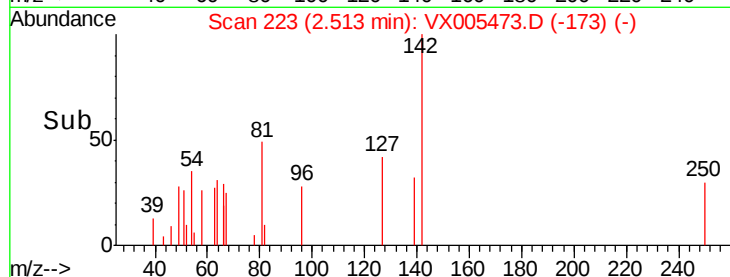
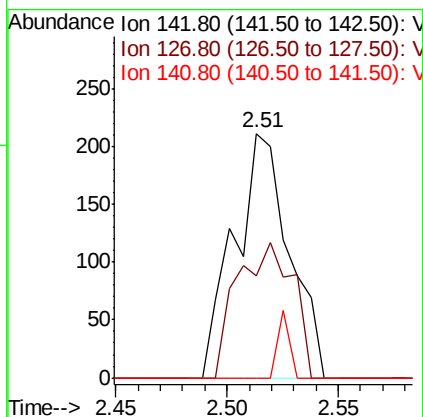
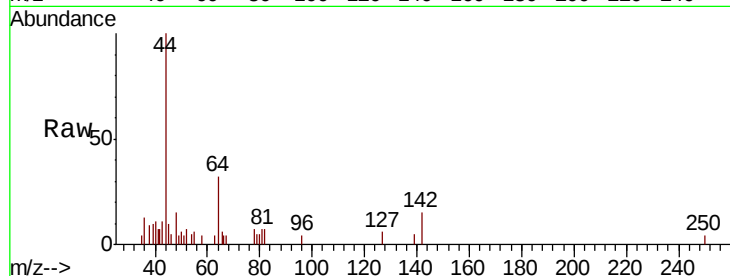




#10
Methyl Iodide
Concen: 2.644 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005473.D
Acq: 22 Oct 2018 16:33

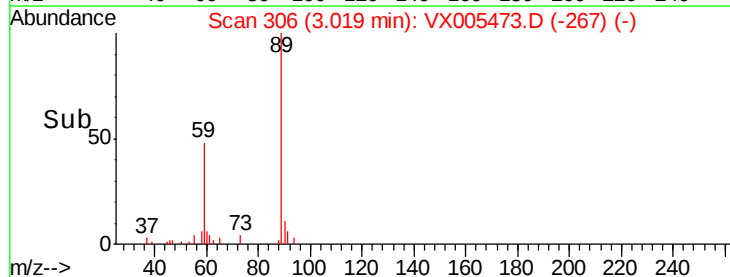
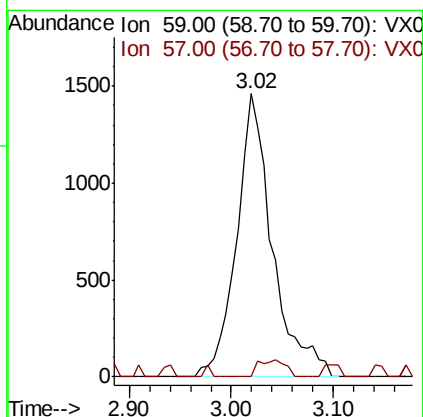
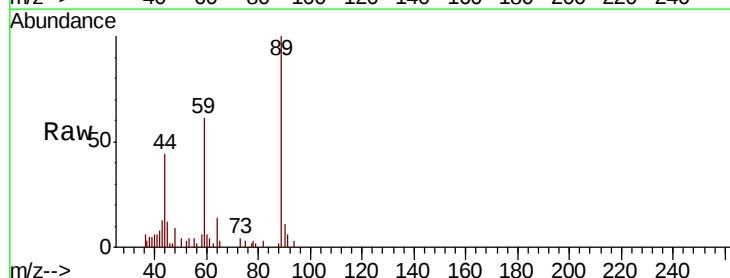
Instrument :
MSVOA_X
ClientSampleId :
PB114041ZHE#03

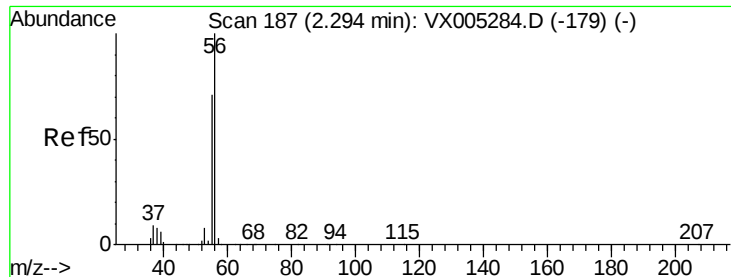
Tot Ion:142 Resp: 361
Ion Ratio Lower Upper
142 100
127 56.2 33.8 50.6#
141 5.8 11.4 17.0#



#11
Tert butyl alcohol
Concen: 4.986 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005473.D
Acq: 22 Oct 2018 16:33

Tgt Ion: 59 Resp: 3559
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

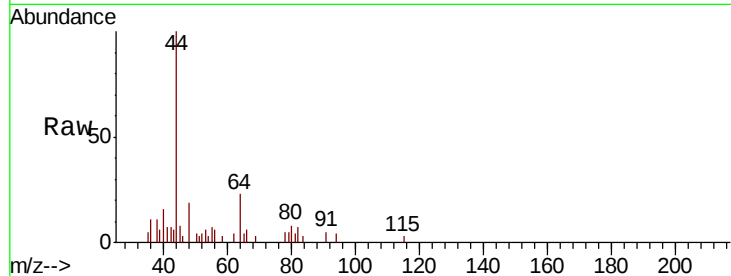
PB114041ZHE#03

Tot Ion: 56 Resp: 142

Ion Ratio Lower Upper

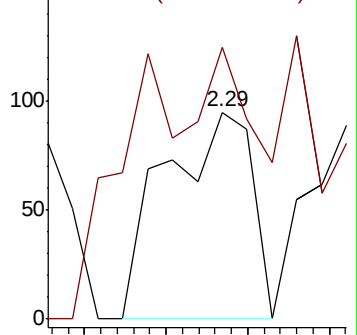
56 100

55 86.6 54.7 82.1#

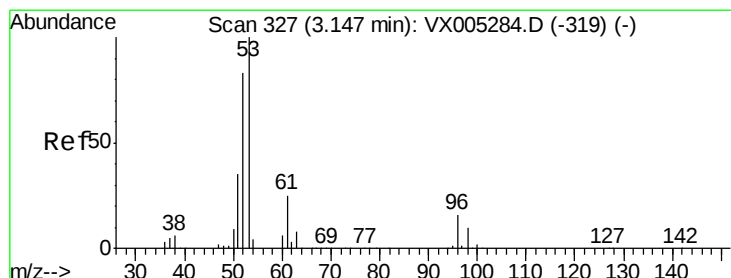
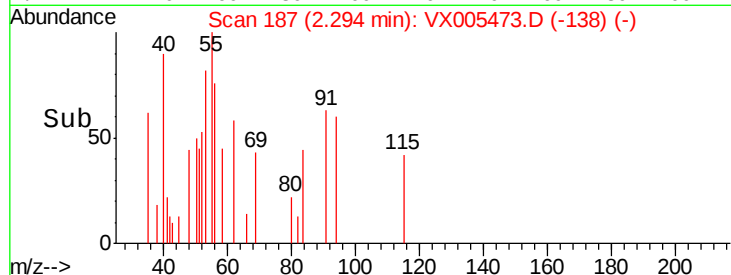


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.358 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

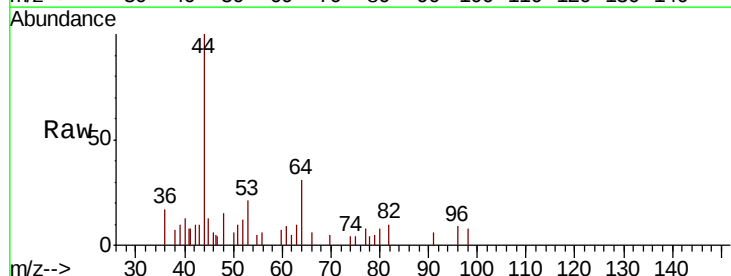
Tgt Ion: 53 Resp: 579

Ion Ratio Lower Upper

53 100

52 71.3 65.2 97.8

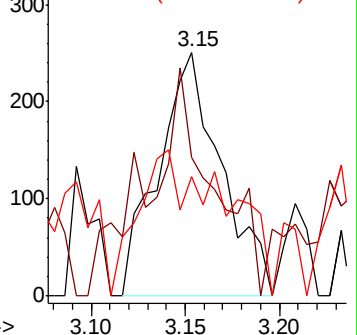
51 83.6 28.2 42.2#



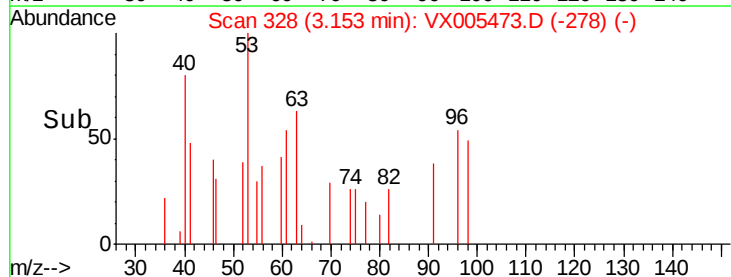
Abundance Ion 53.00 (52.70 to 53.70): VX0

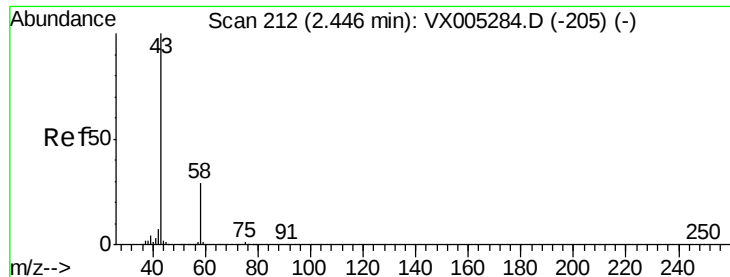
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->





#16

Acetone

Concen: 4.368 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

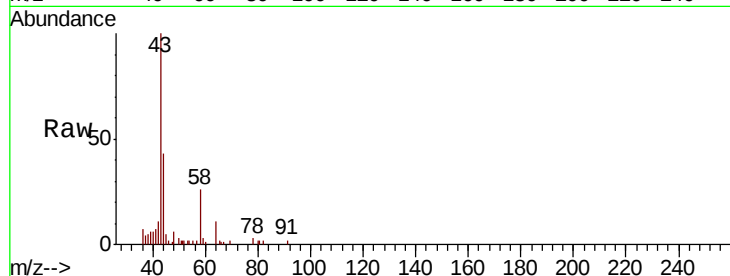
PB114041ZHE#03

Tot Ion: 43 Resp: 6390

Ion Ratio Lower Upper

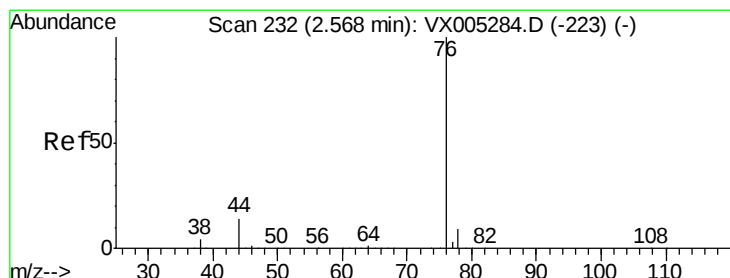
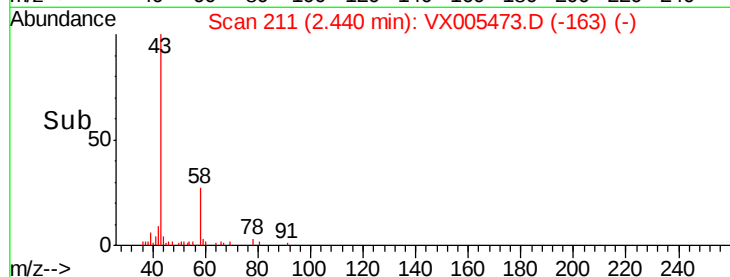
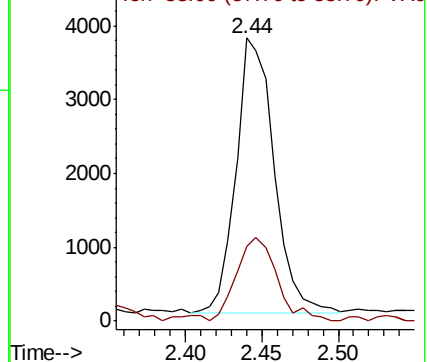
43 100

58 27.3 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: 0.221 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005473.D

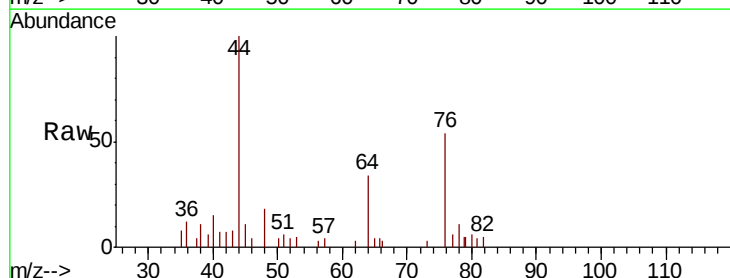
Acq: 22 Oct 2018 16:33

Tgt Ion: 76 Resp: 1336

Ion Ratio Lower Upper

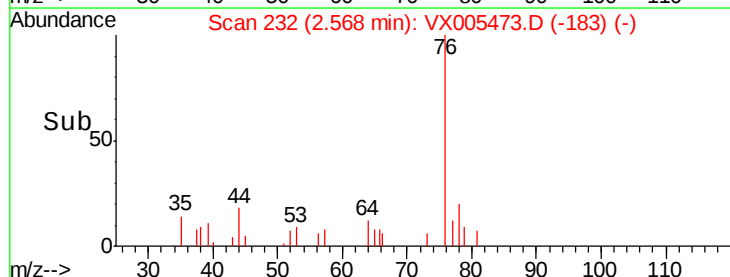
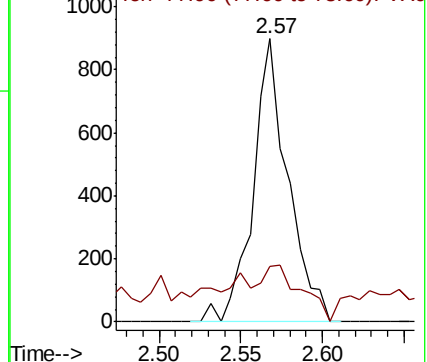
76 100

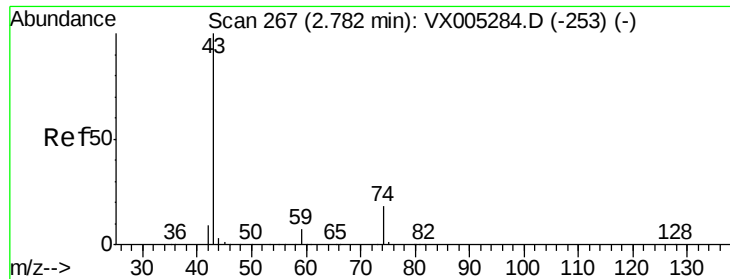
78 11.5 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

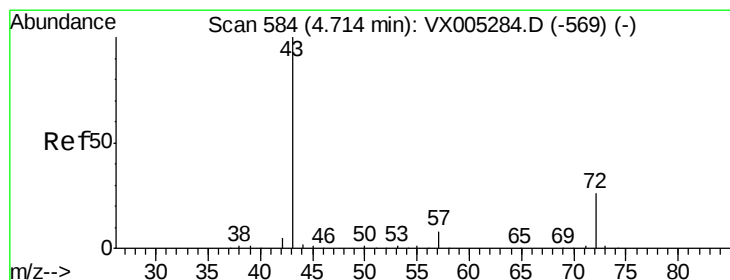
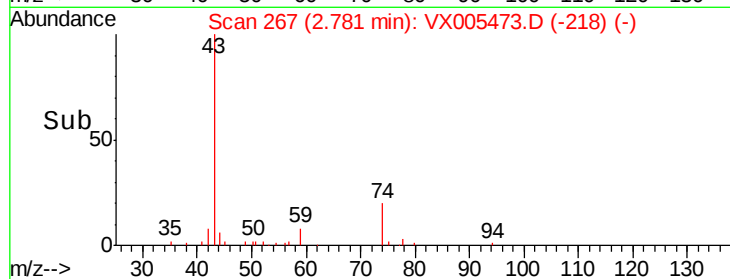
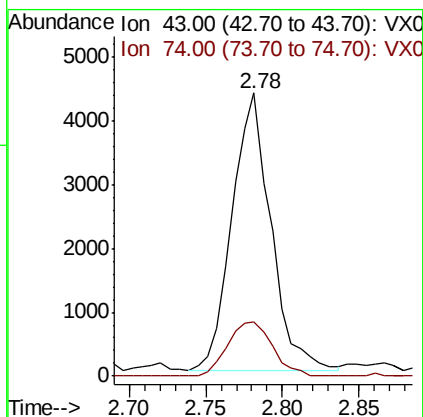
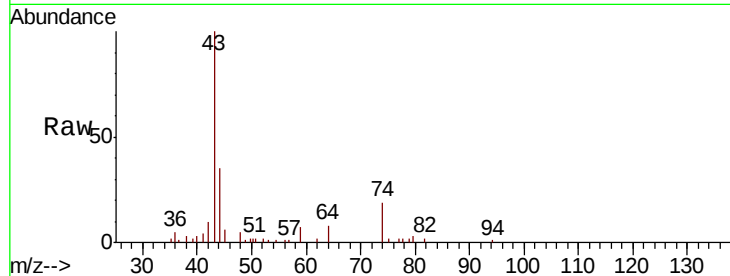




#18
Methvl Acetate
Concen: 1.848 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005473.D
Acq: 22 Oct 2018 16:33

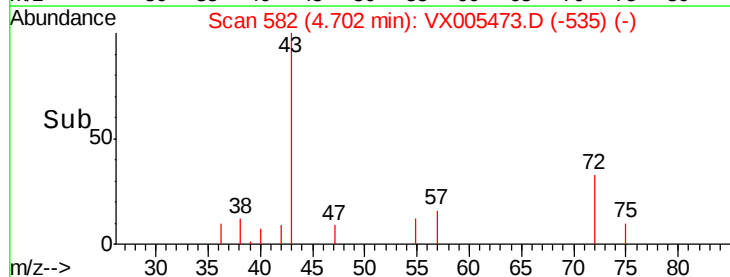
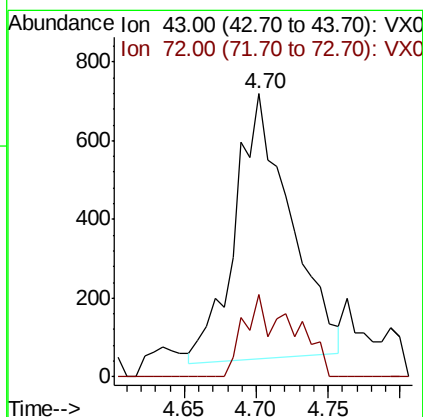
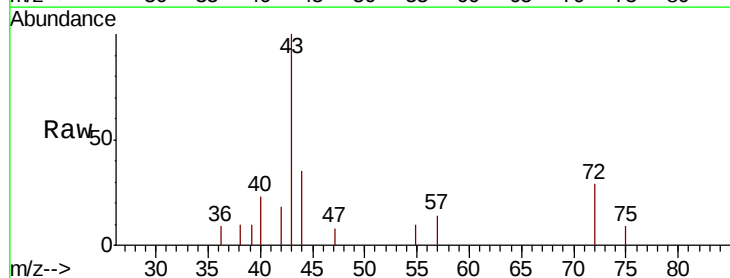
Instrument :
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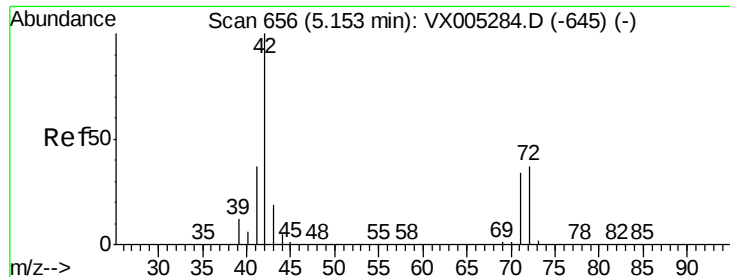
Tot Ion: 43 Resp: 7691
Ion Ratio Lower Upper
43 100
74 22.5 19.4 29.2



#25
2-Butanone
Concen: 0.842 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.01 min
Lab File: VX005473.D
Acq: 22 Oct 2018 16:33

Tgt Ion: 43 Resp: 1802
Ion Ratio Lower Upper
43 100
72 31.7 22.0 33.0





#29

Tetrahydrofuran

Concen: 0.844 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#03

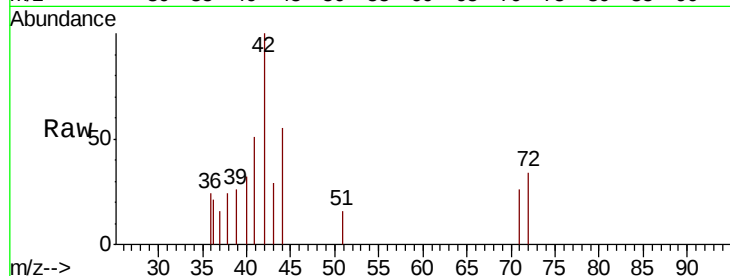
Tot Ion: 42 Resp: 1153

Ion Ratio Lower Upper

42 100

72 24.9 37.4 56.0#

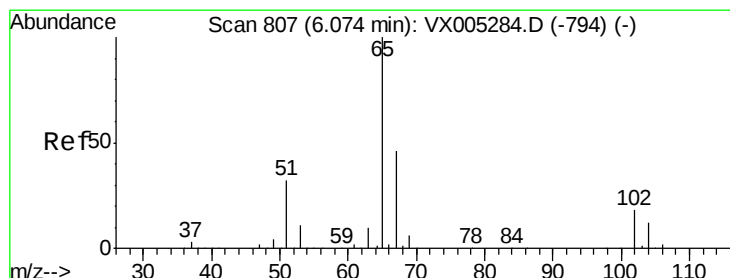
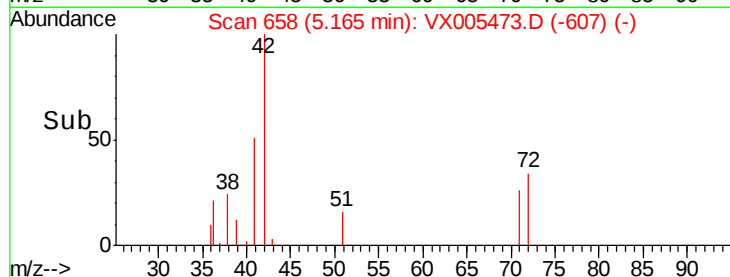
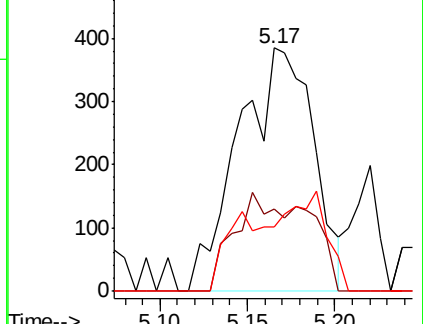
71 15.7 34.5 51.7#



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



#33

1,2-Dichloroethane-d4

Concen: 56.061 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005473.D

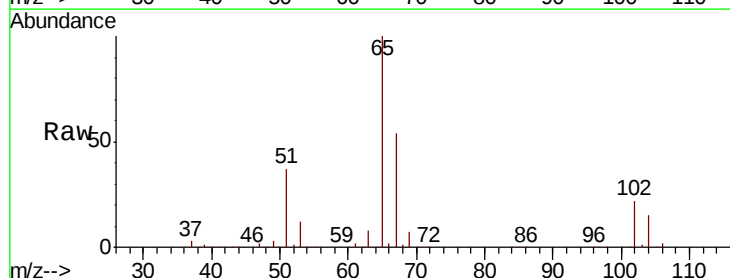
Acq: 22 Oct 2018 16:33

Tgt Ion: 65 Resp: 141850

Ion Ratio Lower Upper

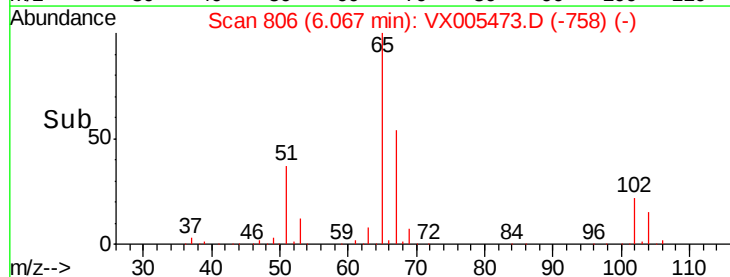
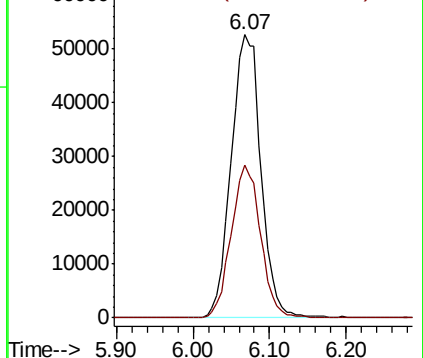
65 100

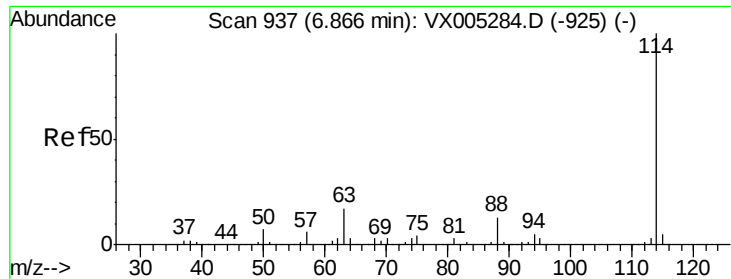
67 53.2 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

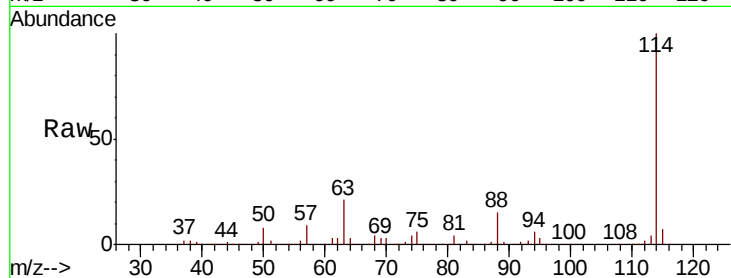




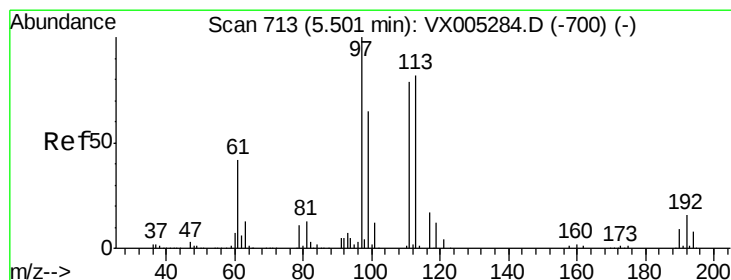
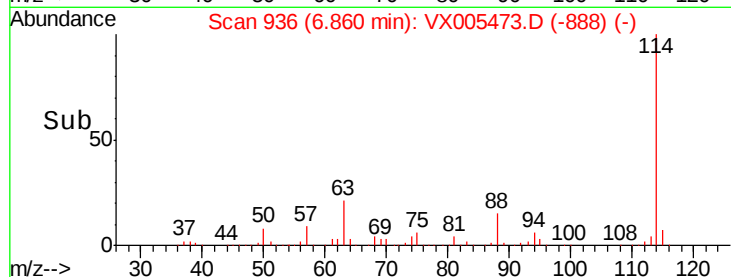
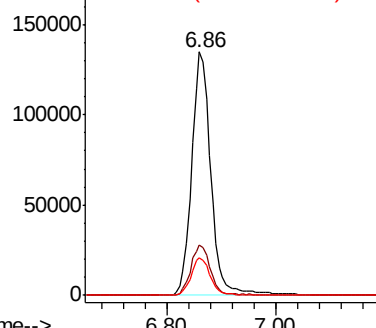
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005473.D
 Acq: 22 Oct 2018 16:33

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114041ZHE#03

Tot Ion:114 Resp: 330959
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 39.0
 88 15.3 0.0 30.4

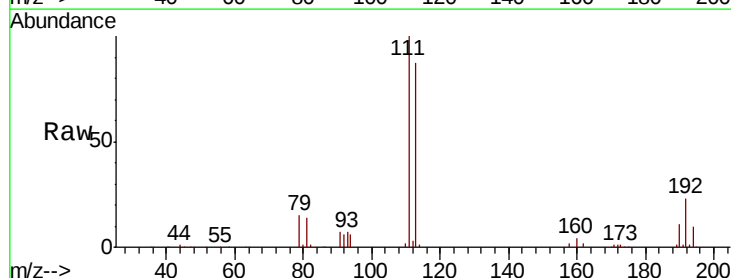


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

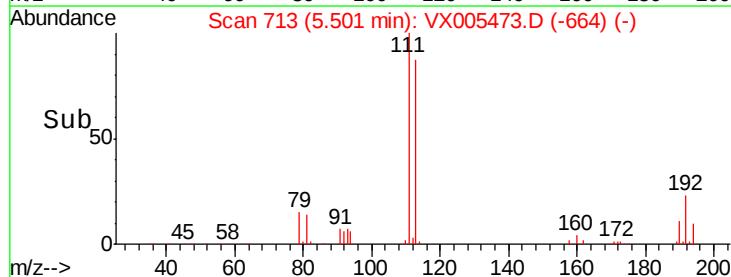
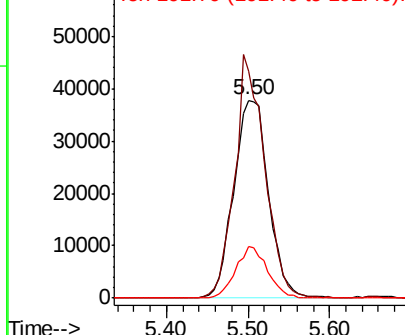


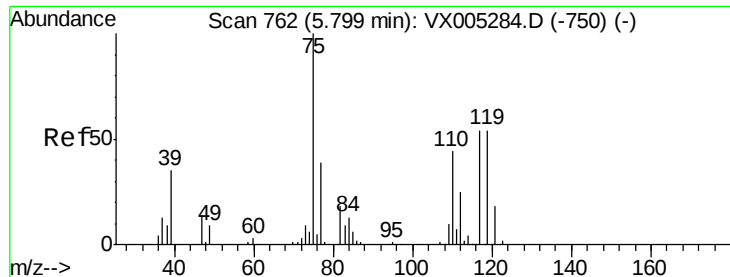
#35
 Dibromofluoromethane
 Concen: 50.936 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005473.D
 Acq: 22 Oct 2018 16:33

Tgt Ion:113 Resp: 111653
 Ion Ratio Lower Upper
 113 100
 111 105.8 82.4 123.6
 192 23.9 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: 5.022 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#03

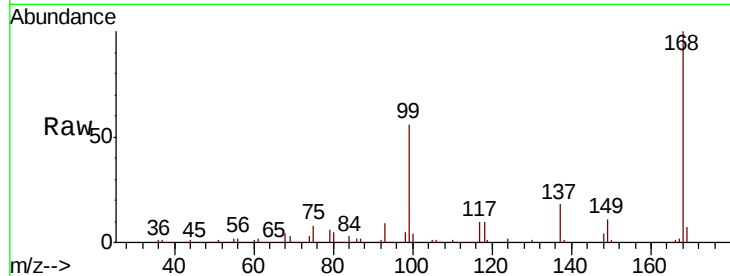
Tot Ion: 75 Resp: 16096

Ion Ratio Lower Upper

75 100

110 8.3 18.0 54.0#

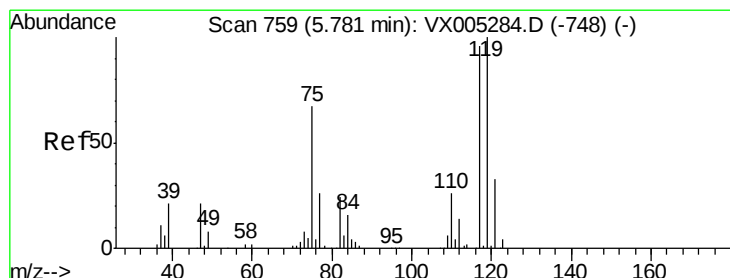
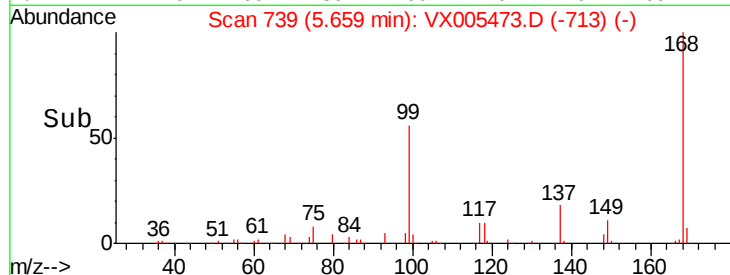
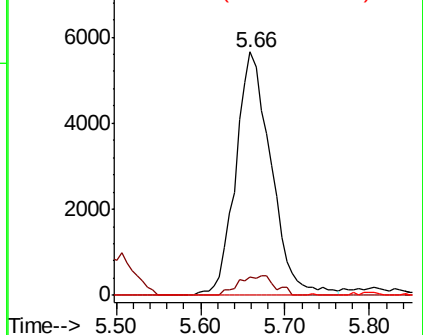
77 0.0 24.6 36.8#



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: 6.376 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

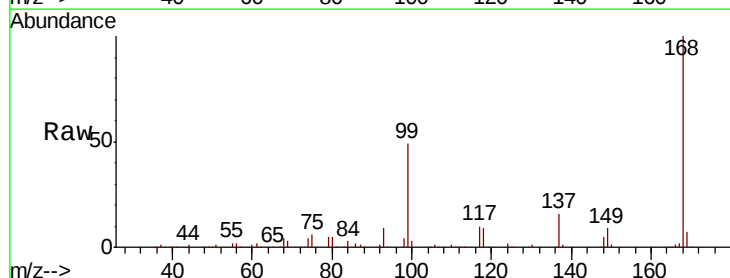
Tgt Ion: 117 Resp: 20535

Ion Ratio Lower Upper

117 100

119 4.3 78.8 118.2#

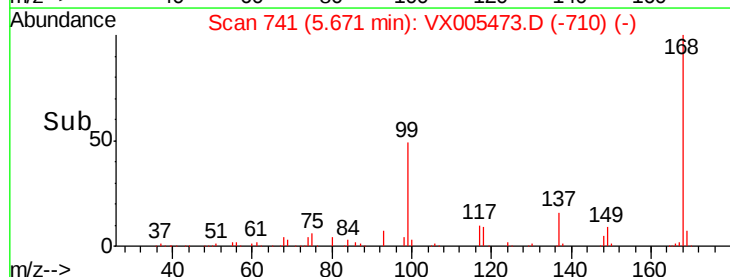
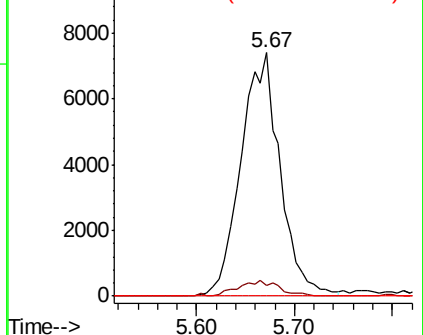
121 0.0 24.9 37.3#

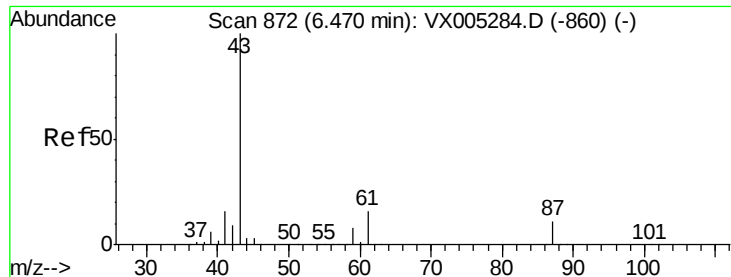


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 31.897 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.01 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#03

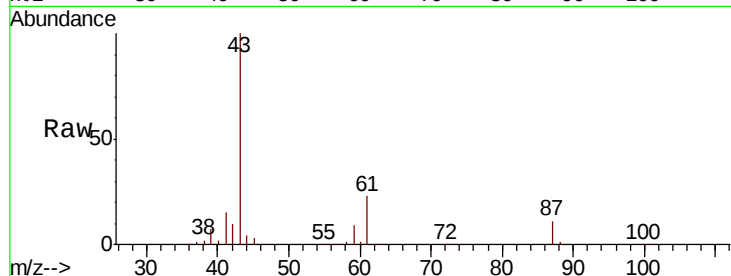
Tot Ion: 43 Resp: 175150

Ion Ratio Lower Upper

43 100

61 18.8 17.0 25.4

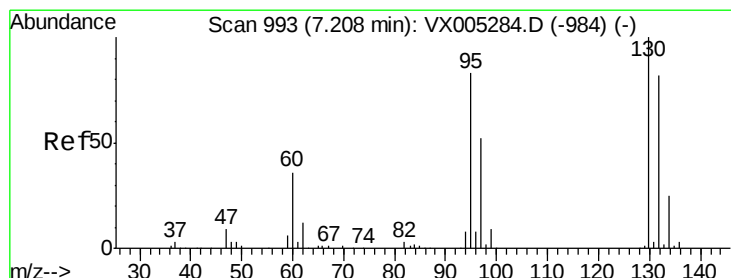
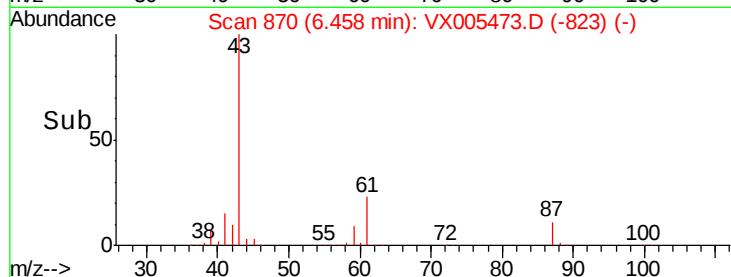
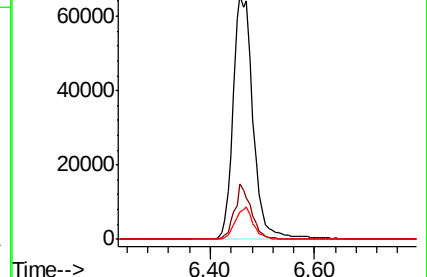
87 11.6 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX005284.D (-860) (-)

Ion 61.00 (60.70 to 61.70): VX005284.D (-860) (-)

Ion 87.00 (86.70 to 87.70): VX005284.D (-860) (-)



#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX005473.D

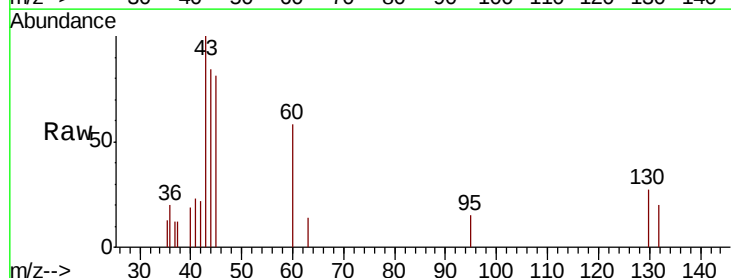
Acq: 22 Oct 2018 16:33

Tgt Ion: 130 Resp: 199

Ion Ratio Lower Upper

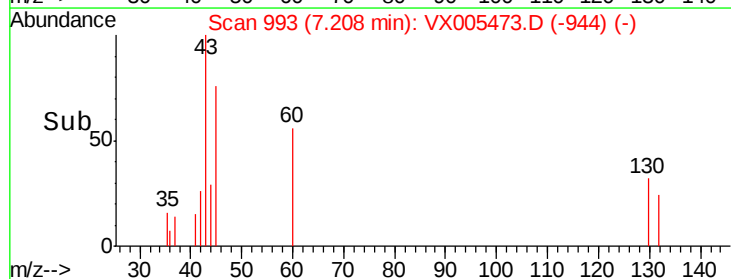
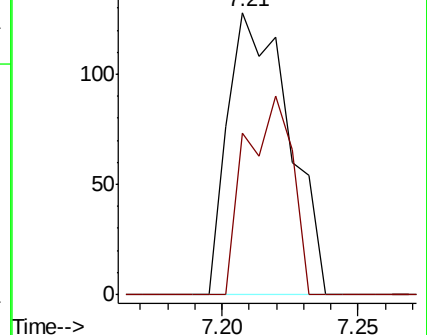
130 100

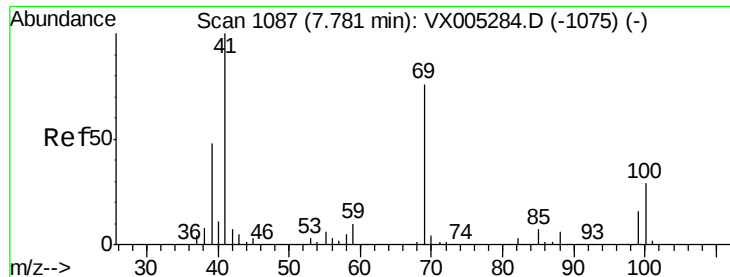
95 57.0 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): VX005284.D (-984) (-)

Ion 94.90 (94.60 to 95.60): VX005284.D (-984) (-)

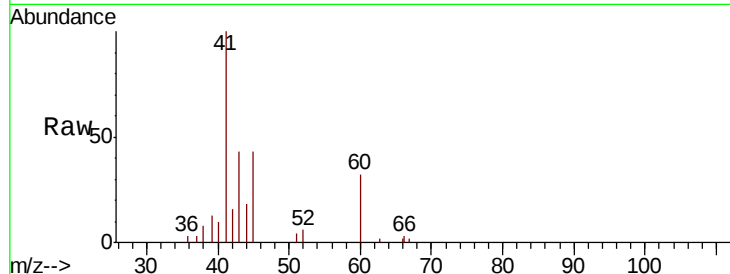




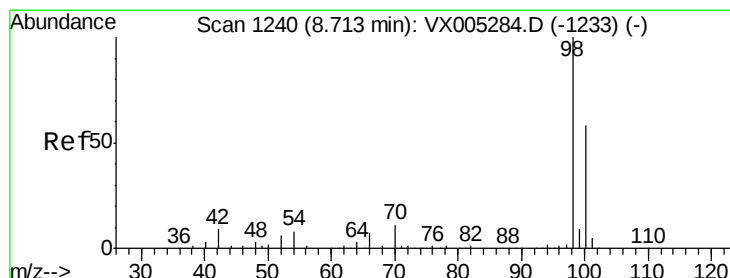
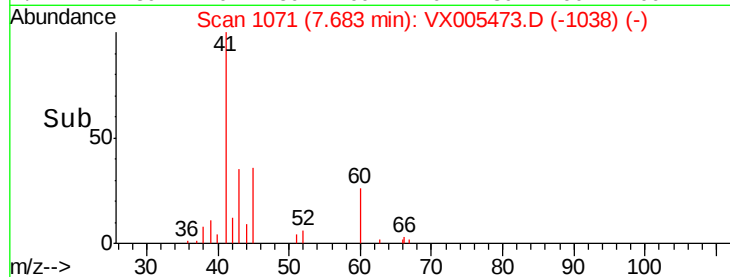
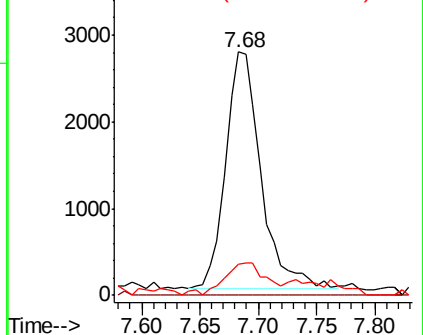
#48
Methvl methacrylate
Concen: 2.004 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.10 min
Lab File: VX005473.D
Acq: 22 Oct 2018 16:33

Instrument :
MSVOA_X
ClientSampleId :
PB114041ZHE#03

Tot Ion: 41 Resp: 5706
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 15.8 42.7 64.1#

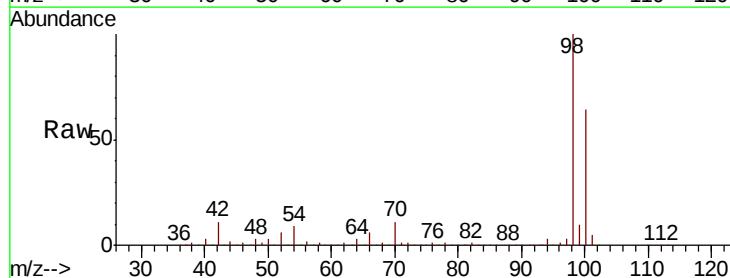


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

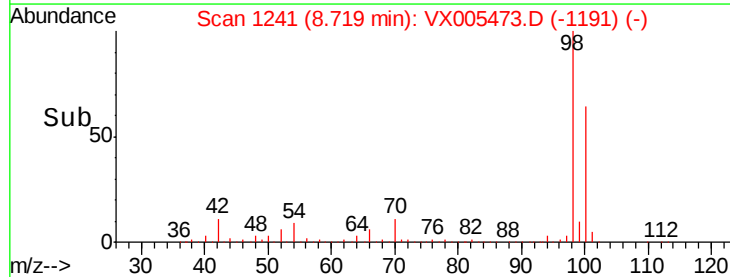
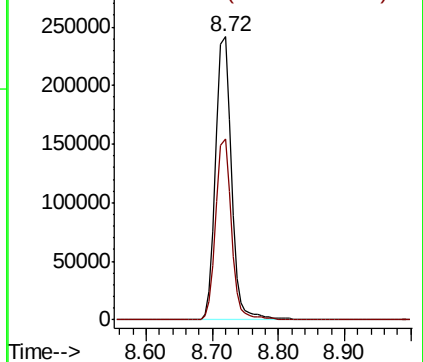


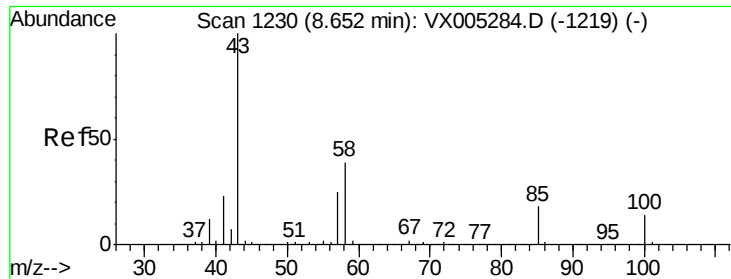
#50
Toluene-d8
Concen: 53.511 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005473.D
Acq: 22 Oct 2018 16:33

Tgt Ion: 98 Resp: 402691
Ion Ratio Lower Upper
98 100
100 63.2 52.9 79.3



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: 0.563 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.04 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

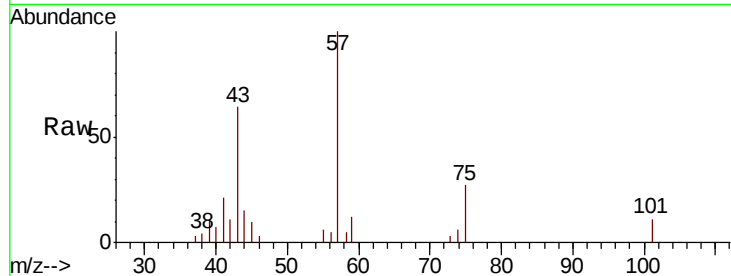
PB114041ZHE#03

Tot Ion: 43 Resp: 2139

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

1500

1000

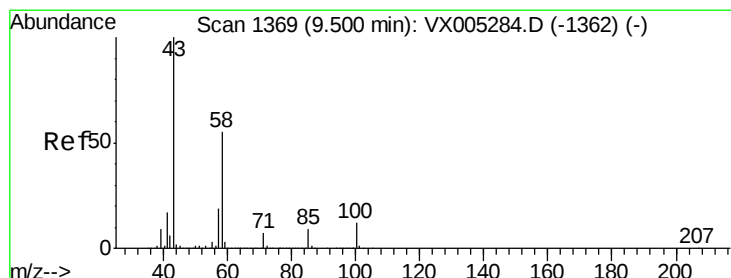
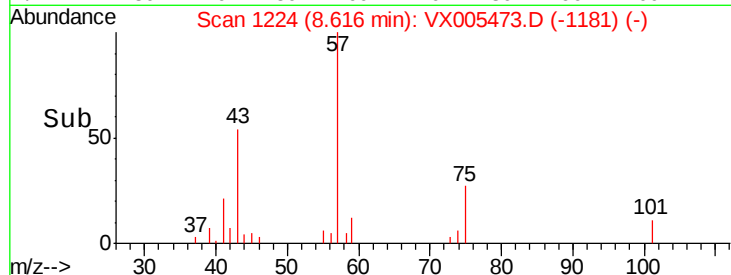
500

0

8.60

8.65

Time-->



#59

2-Hexanone

Concen: 0.384 ug/l

RT: 9.44 min Scan# 1360

Delta R.T. -0.05 min

Lab File: VX005473.D

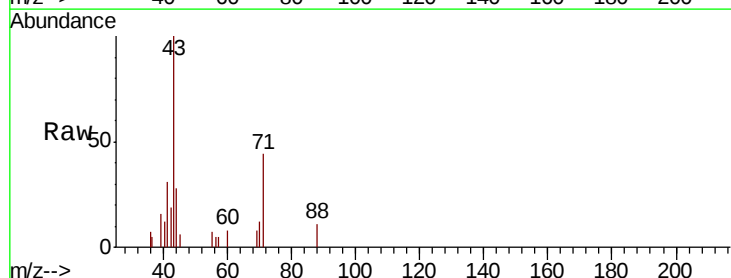
Acq: 22 Oct 2018 16:33

Tgt Ion: 43 Resp: 1174

Ion Ratio Lower Upper

43 100

58 0.0 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

1500

1000

500

0

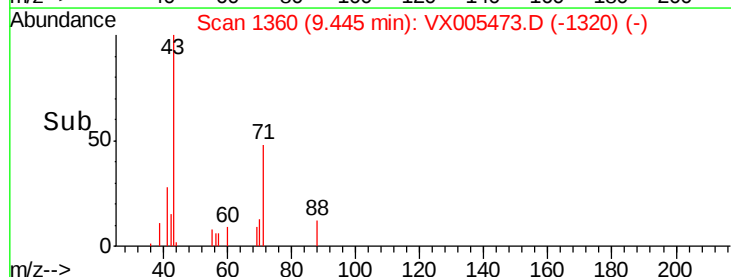
9.42

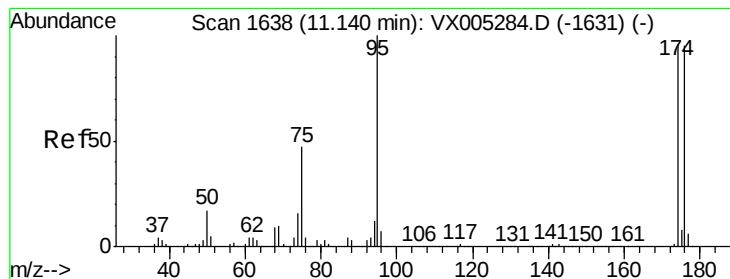
9.44

9.46

9.48

Time-->





#62

4-Bromofluorobenzene

Concen: 46.896 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#03

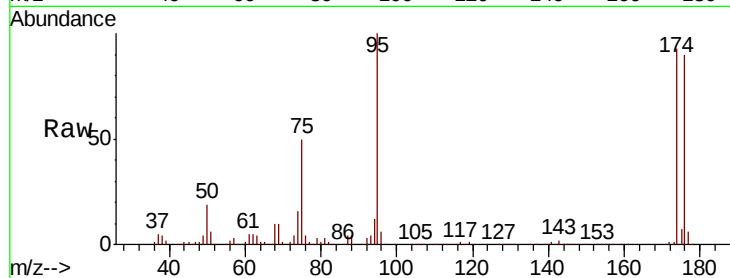
Tot Ion: 95 Resp: 132575

Ion Ratio Lower Upper

95 100

174 92.9 0.0 185.2

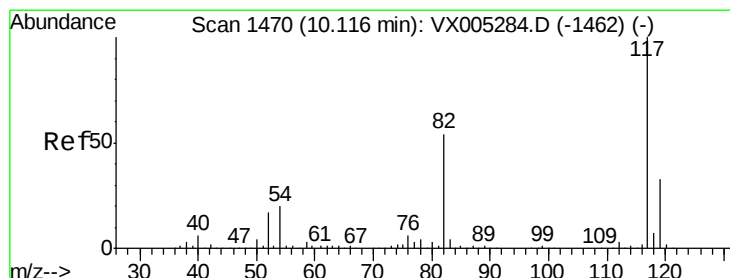
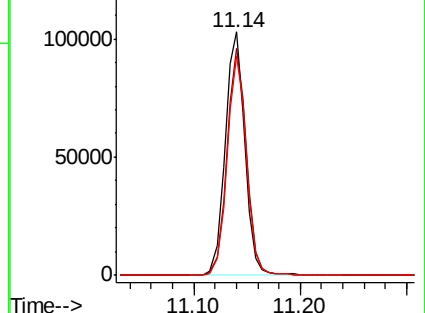
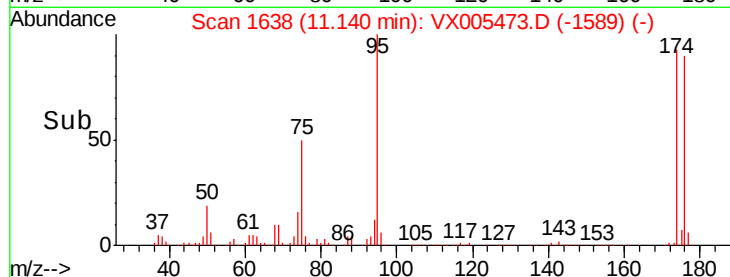
176 88.8 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005473.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005473.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005473.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

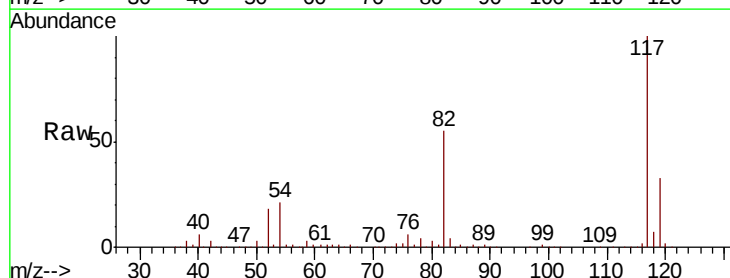
Tgt Ion: 117 Resp: 302349

Ion Ratio Lower Upper

117 100

82 54.8 47.8 71.6

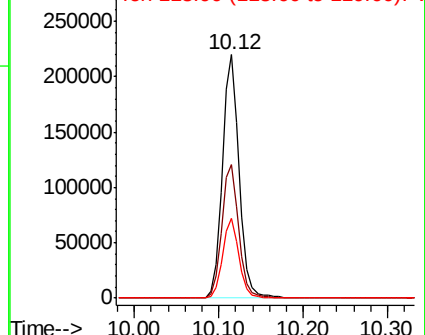
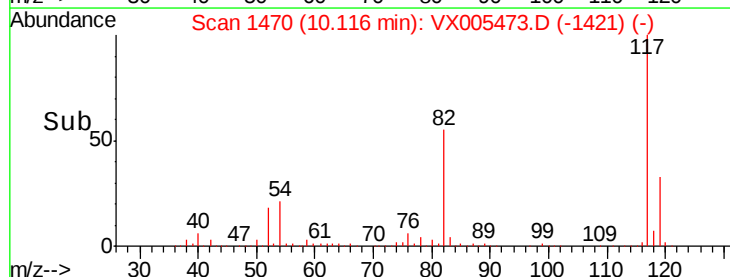
119 32.6 29.3 43.9

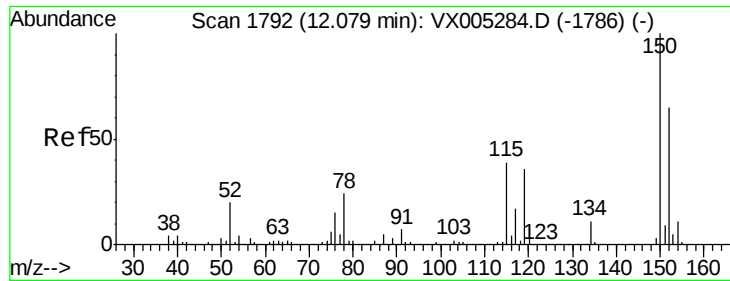


Abundance Ion 116.90 (116.60 to 117.60): VX005473.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005473.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005473.D (-1421) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005473.D

Acq: 22 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#03

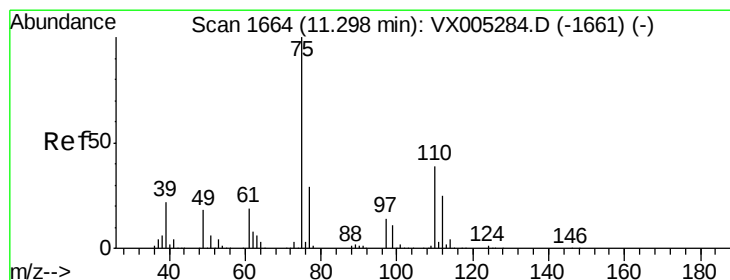
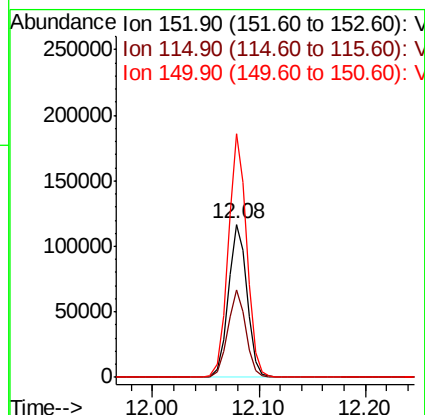
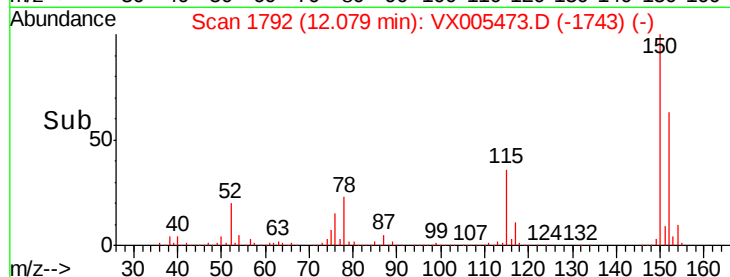
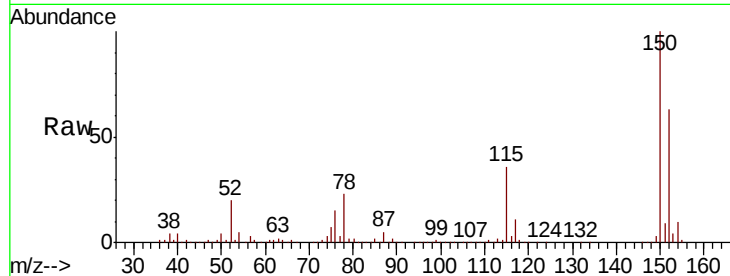
Tot Ion:152 Resp: 143351

Ion Ratio Lower Upper

152 100

115 55.4 39.0 117.0

150 157.2 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 23.928 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005473.D

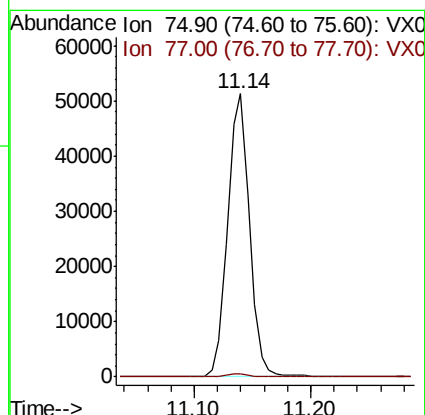
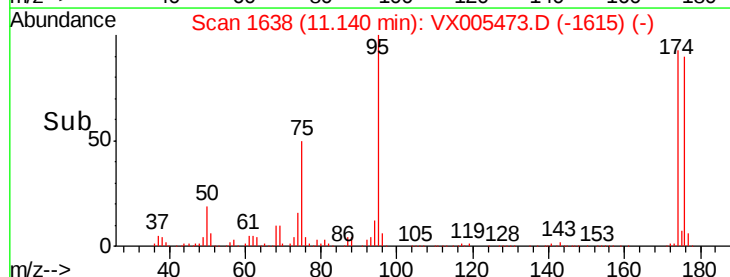
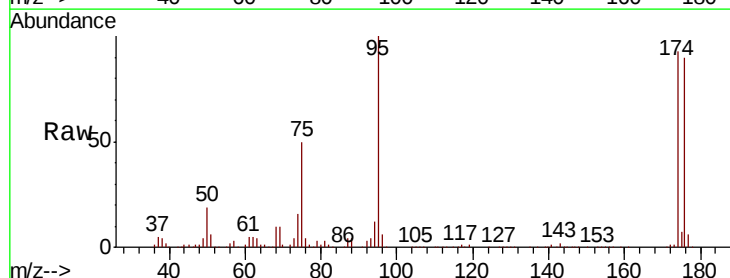
Acq: 22 Oct 2018 16:33

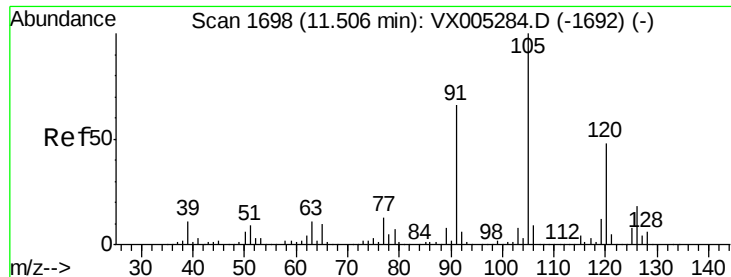
Tgt Ion: 75 Resp: 66533

Ion Ratio Lower Upper

75 100

77 1.1 20.2 60.6#

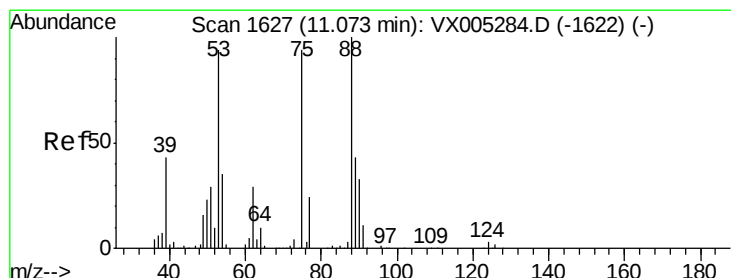
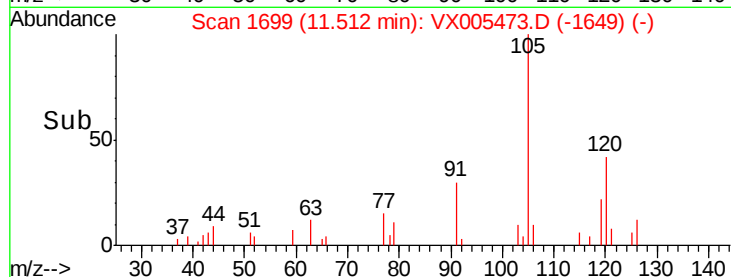
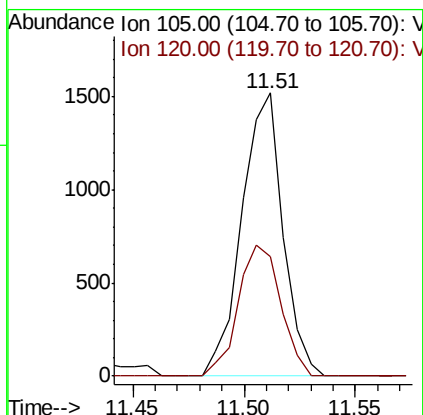
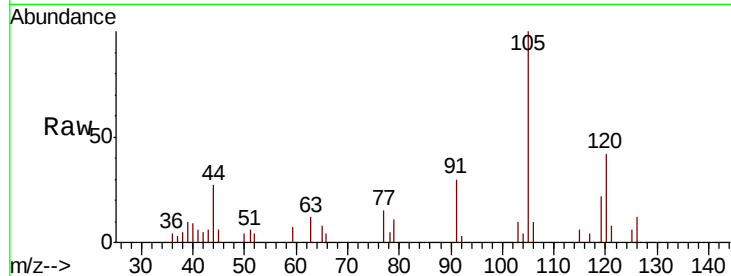




#80
 1,3,5-Trimethylbenzene
 Concen: 0.268 ug/l
 RT: 11.51 min Scan# 1699
 Delta R.T. 0.01 min
 Lab File: VX005473.D
 Acq: 22 Oct 2018 16:33

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114041ZHE#03

Tot Ion:105 Resp: 1956
 Ion Ratio Lower Upper
 105 100
 120 48.0 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.703 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005473.D
 Acq: 22 Oct 2018 16:33

Tgt Ion: 75 Resp: 66533
 Ion Ratio Lower Upper
 75 100
 53 0.4 80.1 120.1#
 89 0.0 37.2 55.8#

