

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\
 Data File : VX005471.D
 Acq On : 22 Oct 2018 15:40
 Operator : JC/MD
 Sample : PB114041ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114041ZHE#01

Quant Time: Oct 23 01:26:43 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	230291	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	339951	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	304753	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	142665	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	148602	58.14	ug/l	0.00
Spiked Amount			Recovery	=	116.28%	
35) Dibromofluoromethane	5.50	113	114664	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
50) Toluene-d8	8.71	98	407686	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
62) 4-Bromofluorobenzene	11.14	95	132744	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	

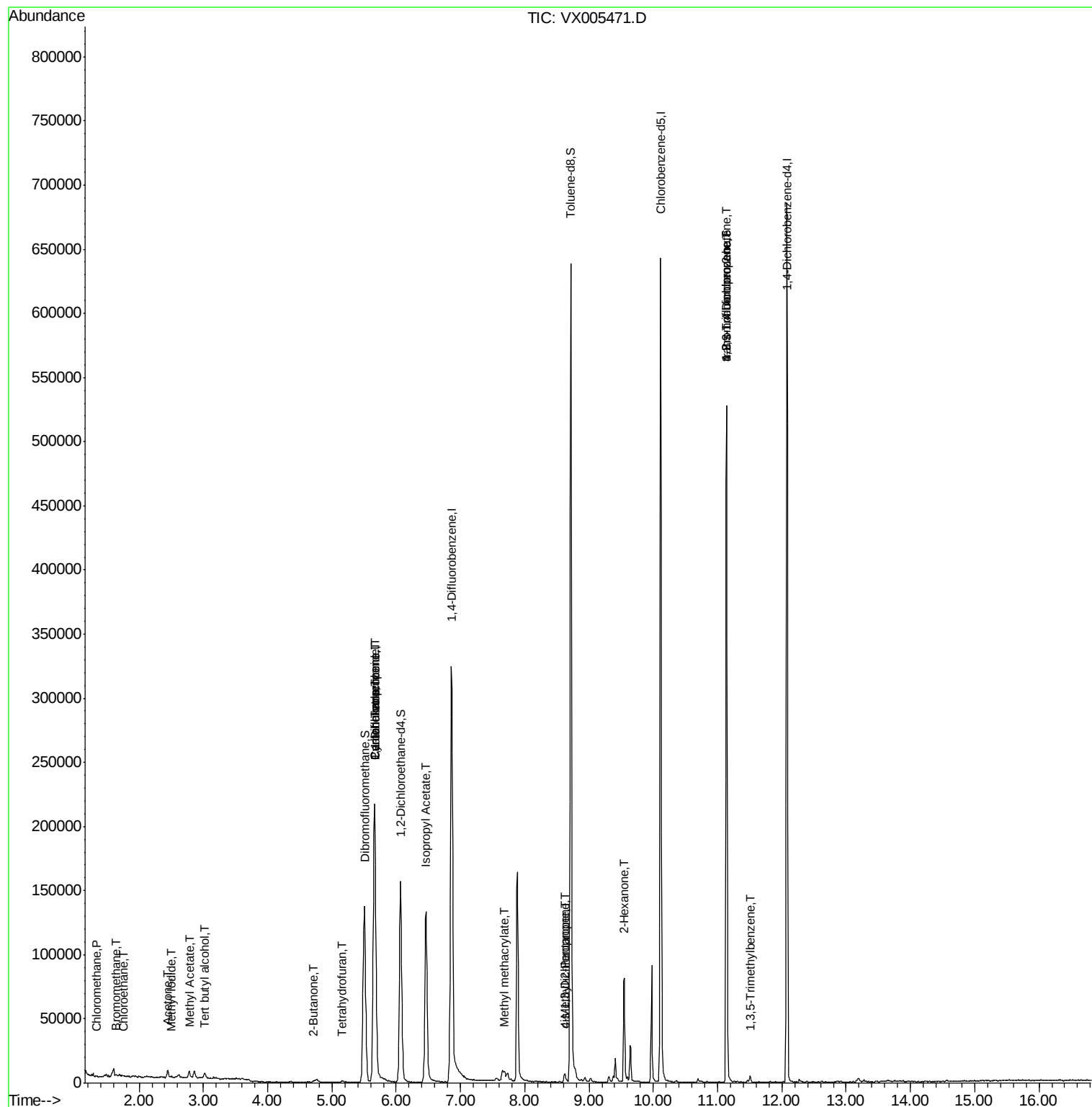
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	573	0.220	ug/l #	85
5) Bromomethane	1.65	94	479	0.901	ug/l	92
6) Chloroethane	1.75	64	270	0.491	ug/l #	58
10) Methyl Iodide	2.51	142	327	2.628	ug/l #	59
11) Tert butyl alcohol	3.02	59	2700	3.745	ug/l #	79
13) Acrolein	2.31	56	127	Below Cal	#	75
16) Acetone	2.45	43	6270	4.243	ug/l	94
18) Methyl Acetate	2.78	43	6238	1.484	ug/l	99
20) Methylene Chloride	2.85	84	2167	Below Cal	#	73
25) 2-Butanone	4.71	43	1895	0.876	ug/l	96
29) Tetrahydrofuran	5.16	42	1000	0.725	ug/l	93
31) Cyclohexane	5.66	56	4496	1.280	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15606	4.740	ug/l #	51
38) Carbon Tetrachloride	5.66	117	20702	6.258	ug/l #	15
43) Isopropyl Acetate	6.46	43	173603	30.779	ug/l	95
44) Trichloroethene	7.22	130	113	Below Cal		56
48) Methyl methacrylate	7.68	41	6348	2.170	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2851	0.730	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1061	0.306	ug/l #	74
59) 2-Hexanone	9.54	43	9402	2.993	ug/l #	55
76) 1,2,3-Trichloropropane	11.14	75	64982	23.482	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	2154	0.297	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.14	75	64982	71.350	ug/l #	10

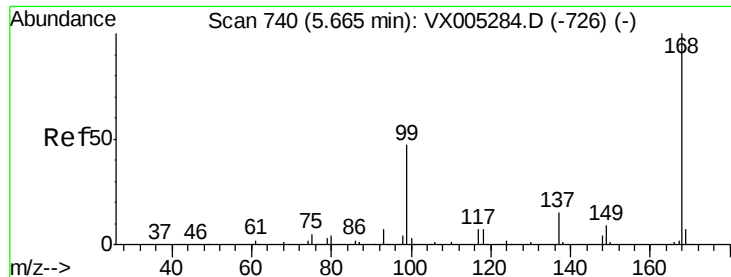
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 23 01:26:43 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

Instrument :

MSVOA_X

ClientSampleId :

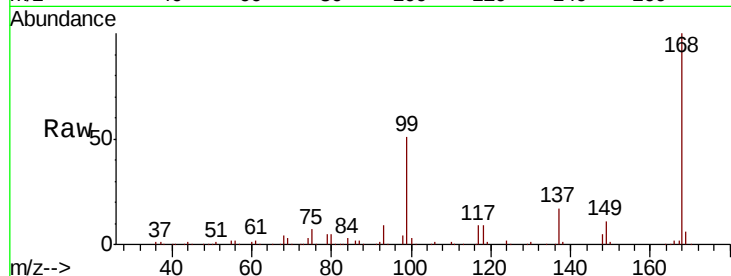
PB114041ZHE#01

Tot Ion:168 Resp: 230291

Ion Ratio Lower Upper

168 100

99 51.2 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

80000

60000

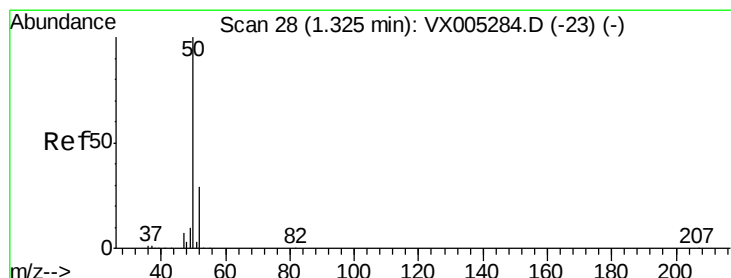
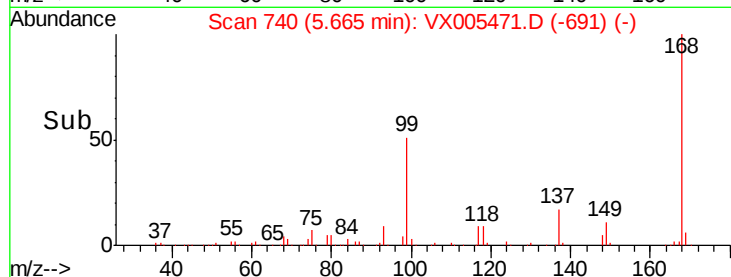
40000

20000

0

Time-->

5.60 5.80 6.00



#3

Chloromethane

Concen: 0.220 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX005471.D

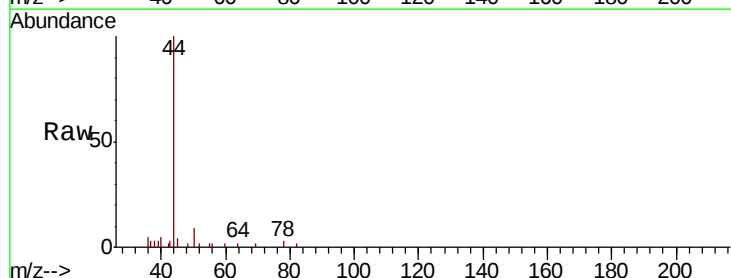
Acq: 22 Oct 2018 15:40

Tgt Ion: 50 Resp: 573

Ion Ratio Lower Upper

50 100

52 24.4 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

300

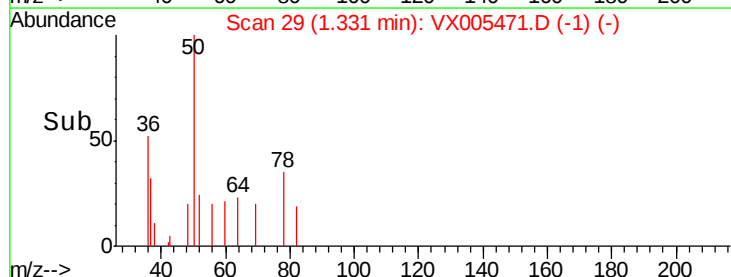
200

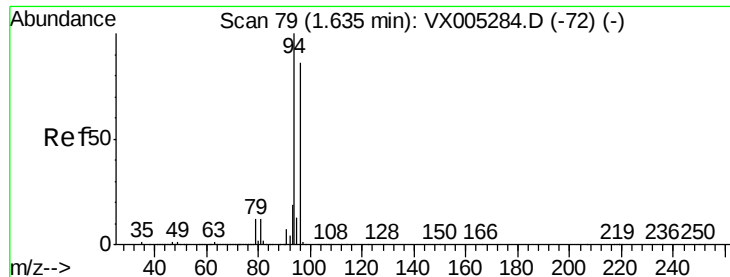
100

0

Time-->

1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.901 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

Instrument :

MSVOA_X

ClientSampleId :

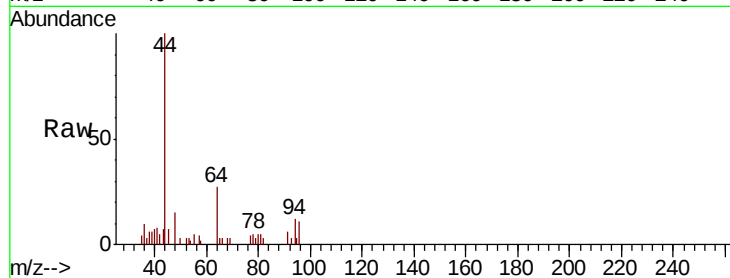
PB114041ZHE#01

Tot Ion: 94 Resp: 479

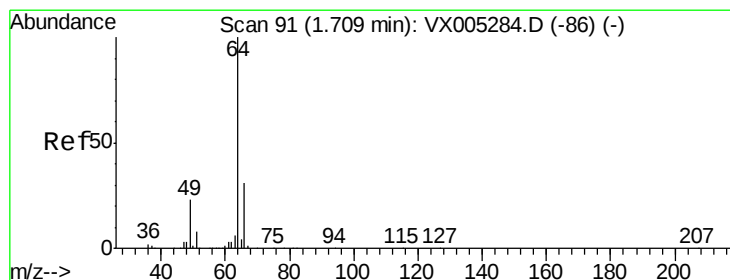
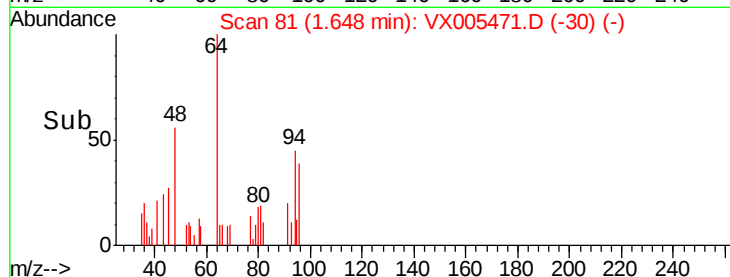
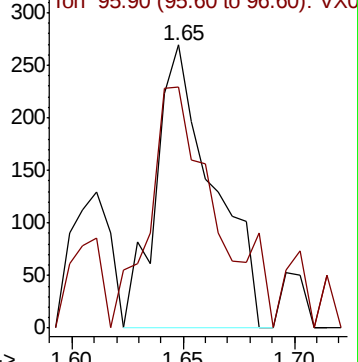
Ion Ratio Lower Upper

94 100

96 85.1 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: 0.491 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.04 min

Lab File: VX005471.D

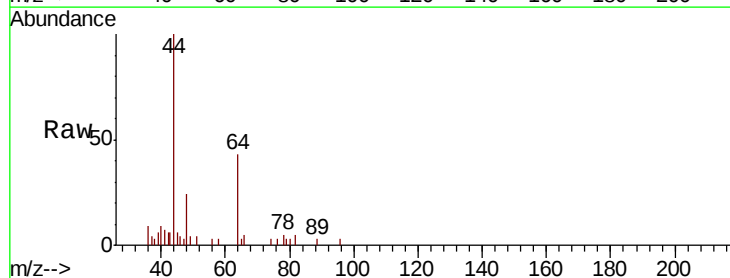
Acq: 22 Oct 2018 15:40

Tgt Ion: 64 Resp: 270

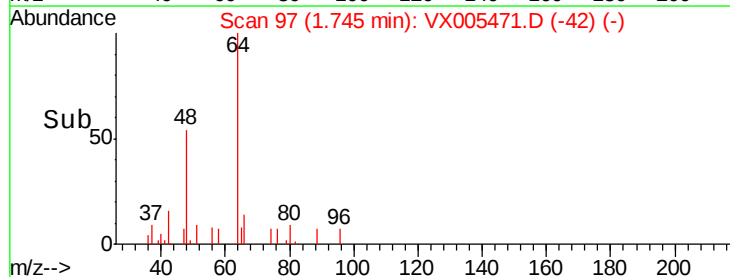
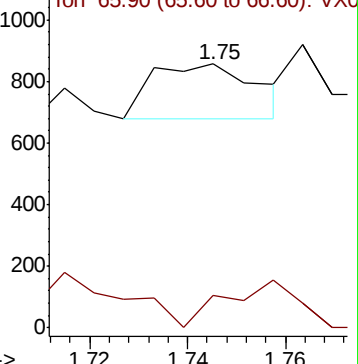
Ion Ratio Lower Upper

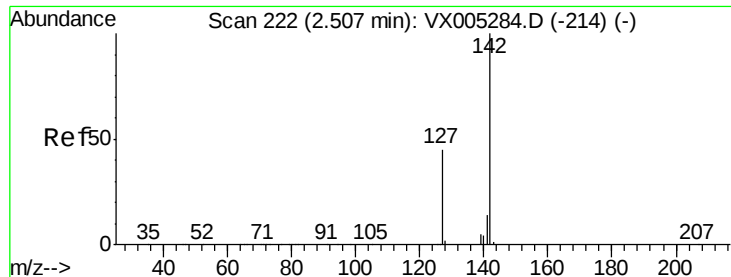
64 100

66 7.8 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

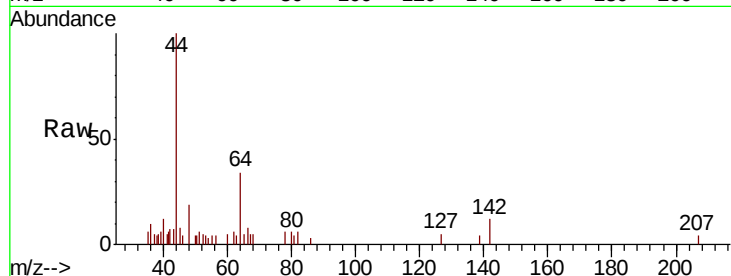




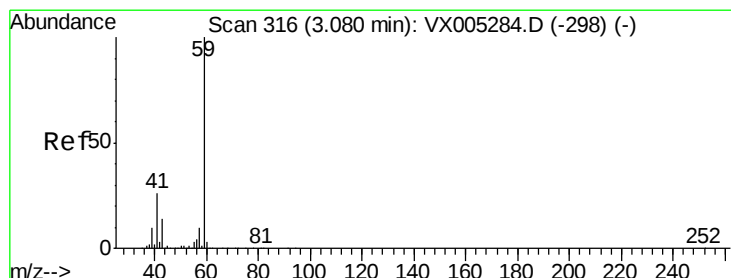
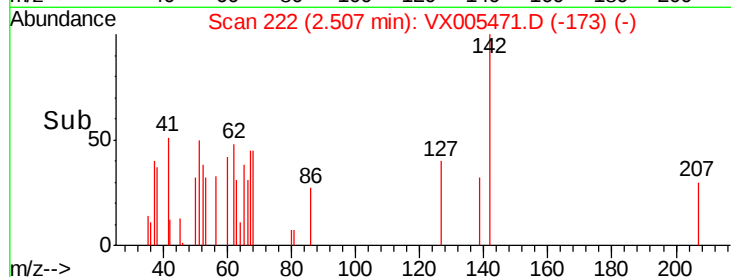
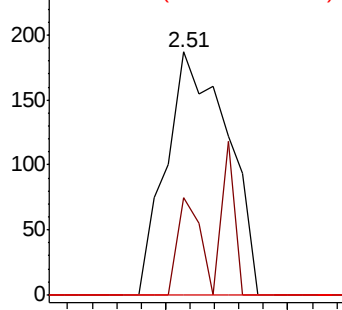
#10
Methvl Iodide
Concen: 2.628 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Instrument :
MSVOA_X
ClientSampleId :
PB114041ZHE#01

Tot Ion:142 Resp: 327
Ion Ratio Lower Upper
142 100
127 14.7 33.8 50.6#
141 0.0 11.4 17.0#

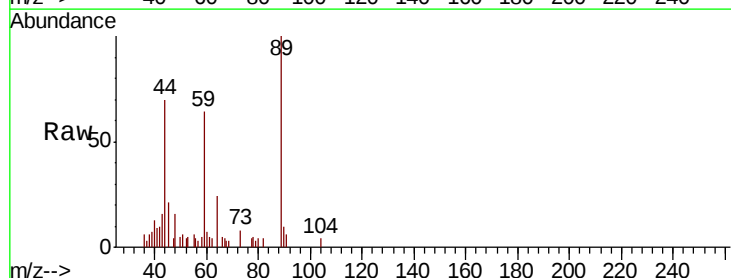


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

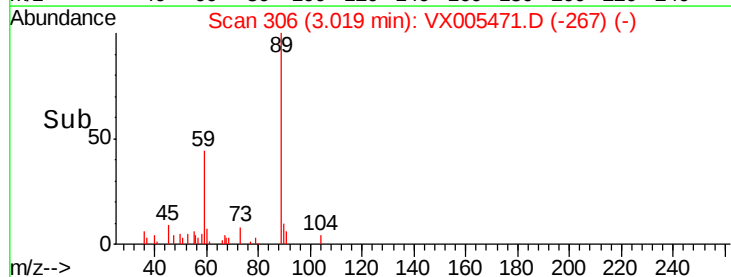
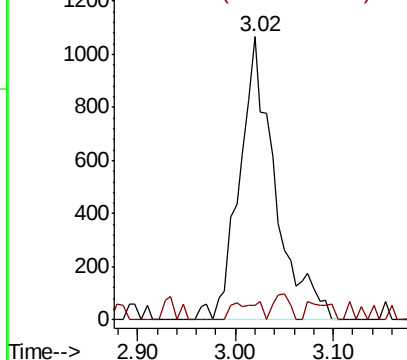


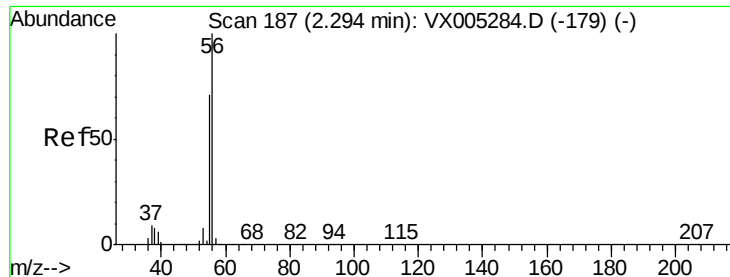
#11
Tert butyl alcohol
Concen: 3.745 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Tgt Ion: 59 Resp: 2700
Ion Ratio Lower Upper
59 100
57 2.3 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

Instrument :

MSVOA_X

ClientSampleId :

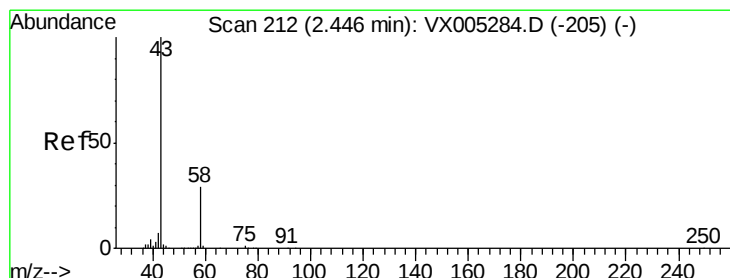
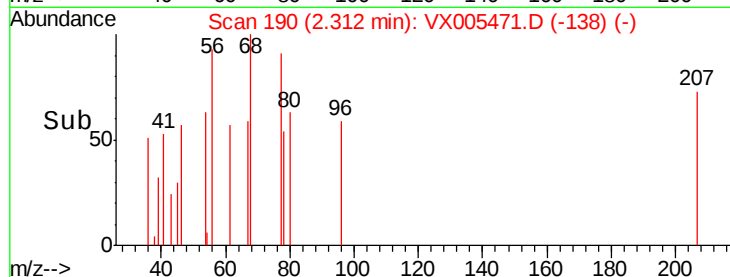
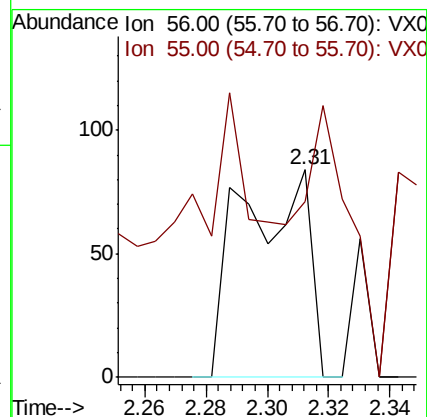
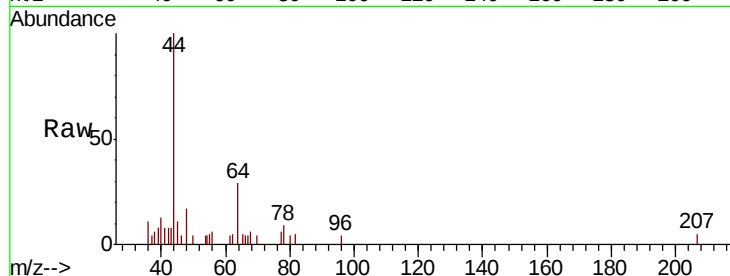
PB114041ZHE#01

Tot Ion: 56 Resp: 127

Ion Ratio Lower Upper

56 100

55 89.0 54.7 82.1#



#16

Acetone

Concen: 4.243 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005471.D

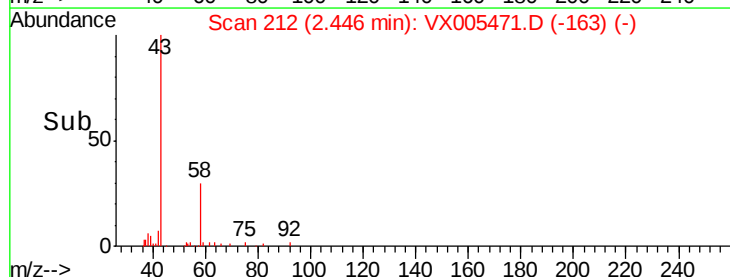
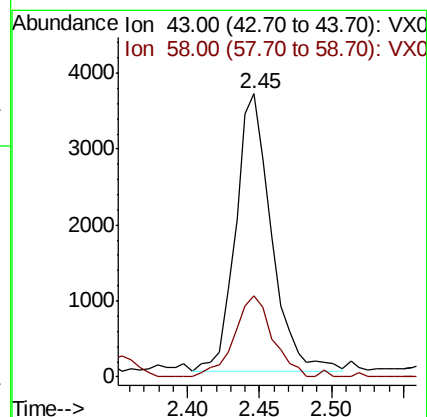
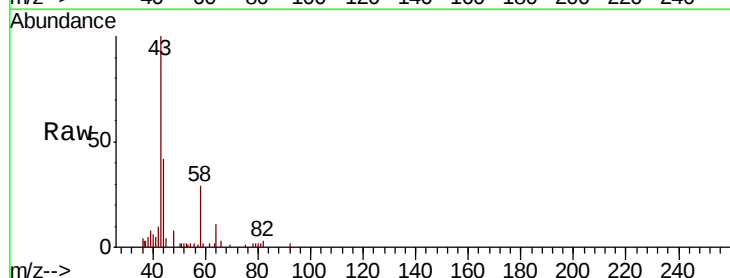
Acq: 22 Oct 2018 15:40

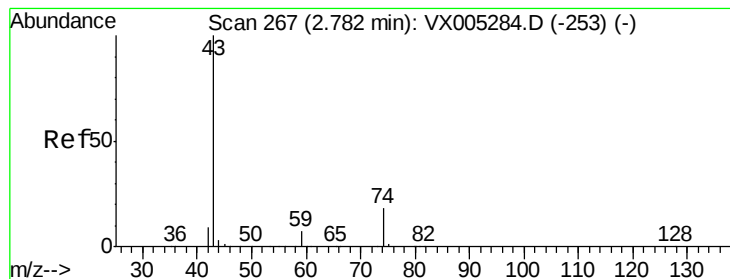
Tgt Ion: 43 Resp: 6270

Ion Ratio Lower Upper

43 100

58 29.5 26.2 39.4





#18

Methyl Acetate

Concen: 1.484 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

Instrument :

MSVOA_X

ClientSampleId :

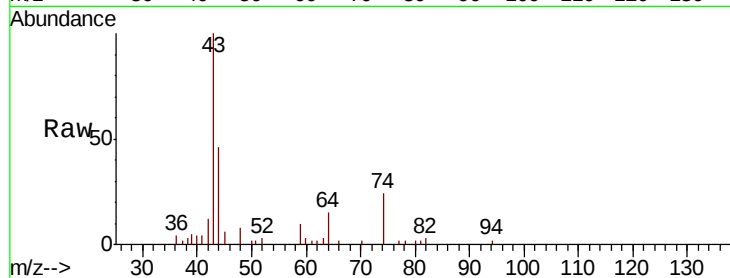
PB114041ZHE#01

Tot Ion: 43 Resp: 6238

Ion Ratio Lower Upper

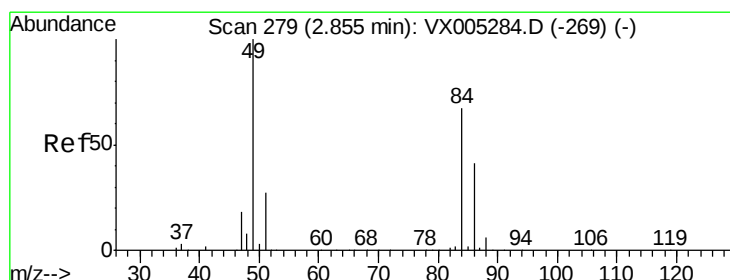
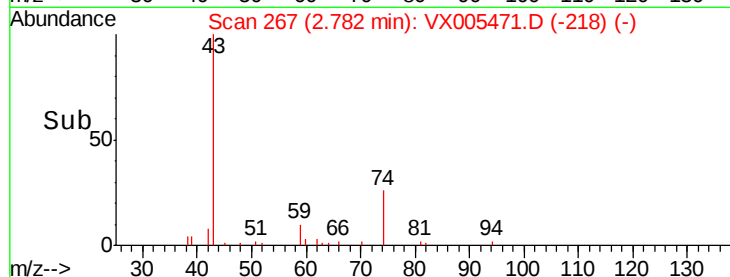
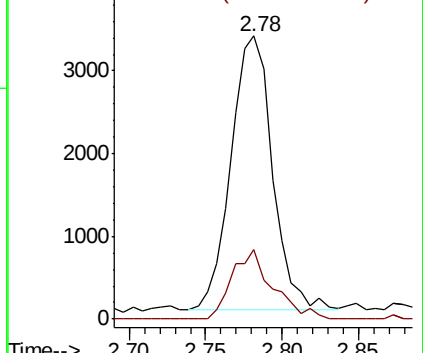
43 100

74 24.8 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

Tgt Ion: 84 Resp: 2167

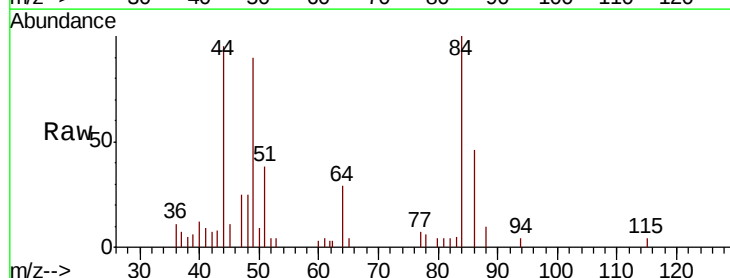
Ion Ratio Lower Upper

84 100

49 86.1 101.2 151.8#

51 37.6 29.5 44.3

86 45.5 52.3 78.5#

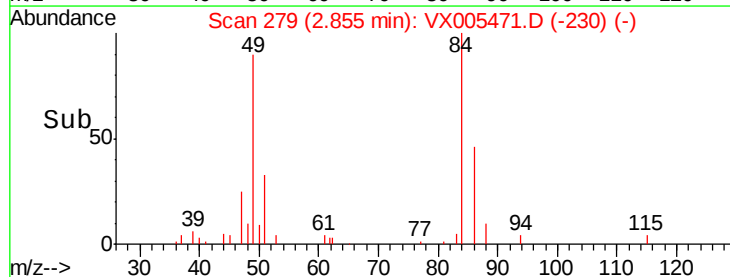
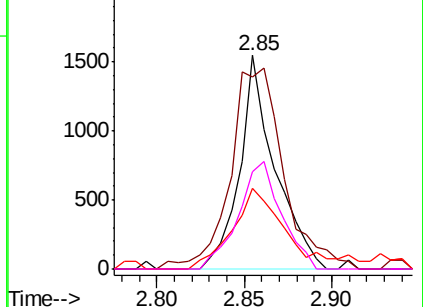


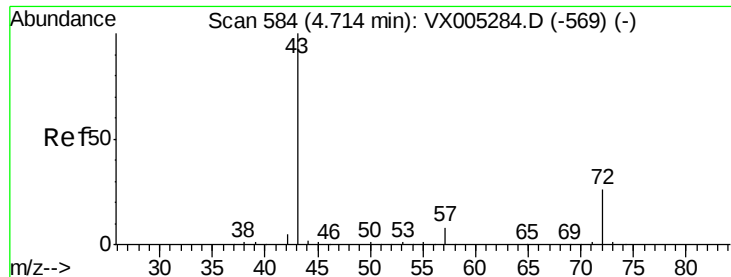
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: 0.876 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

Instrument :

MSVOA_X

ClientSampleId :

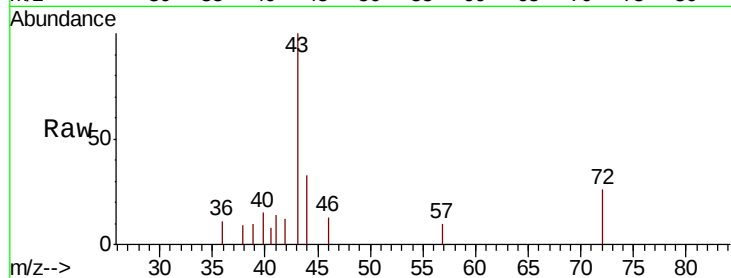
PB114041ZHE#01

Tot Ion: 43 Resp: 1895

Ion Ratio Lower Upper

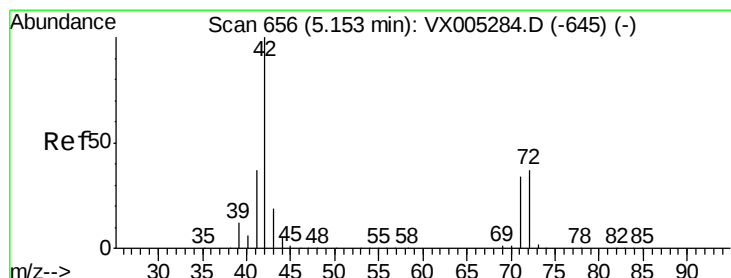
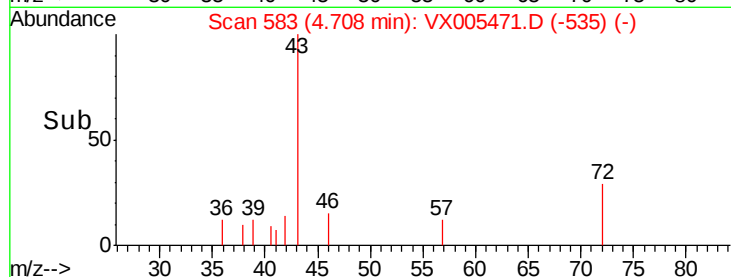
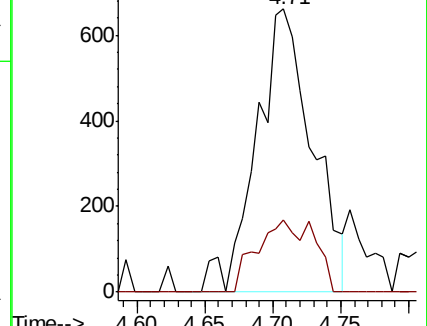
43 100

72 25.6 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.725 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

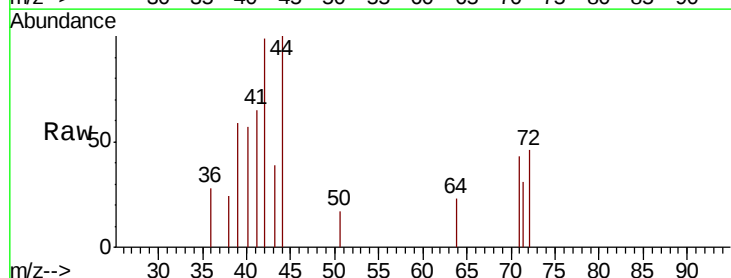
Tgt Ion: 42 Resp: 1000

Ion Ratio Lower Upper

42 100

72 38.3 37.4 56.0

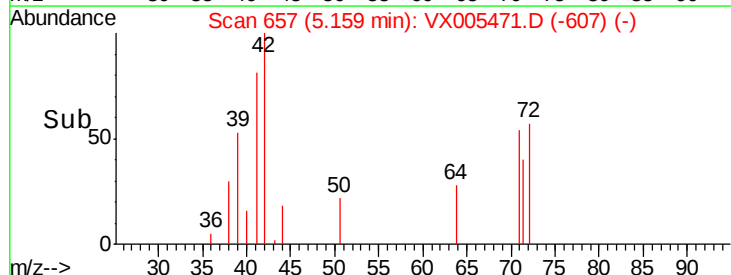
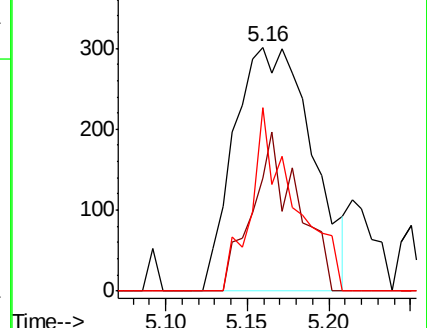
71 42.6 34.5 51.7

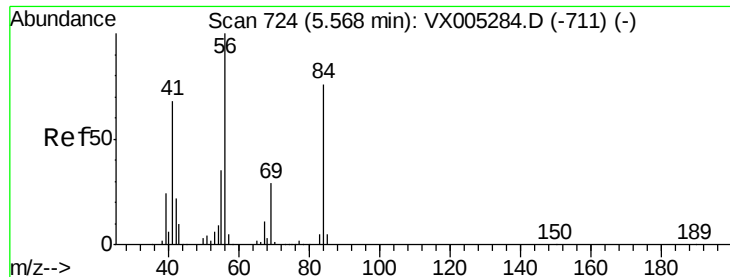


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

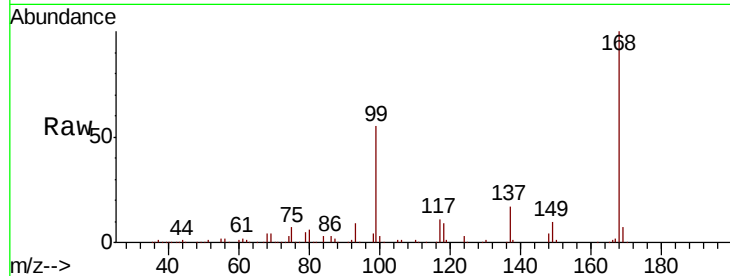




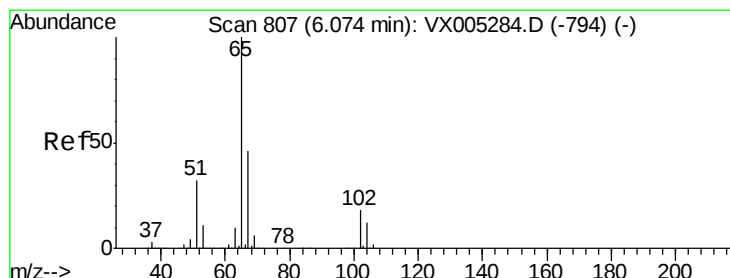
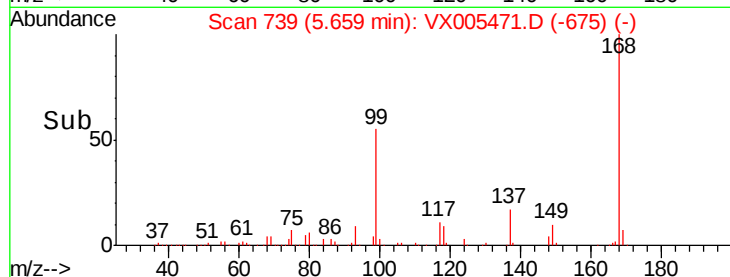
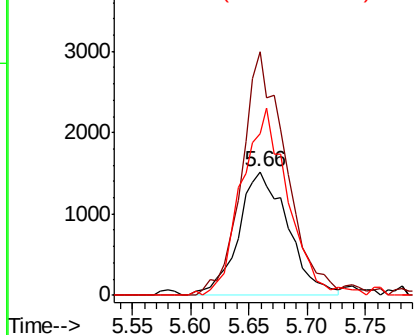
#31
Cyclohexane
Concen: 1.280 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Instrument :
MSVOA_X
ClientSampleId :
PB114041ZHE#01

Tot Ion: 56 Resp: 4496
Ion Ratio Lower Upper
56 100
69 196.5 25.4 38.2#
84 130.6 71.4 107.2#

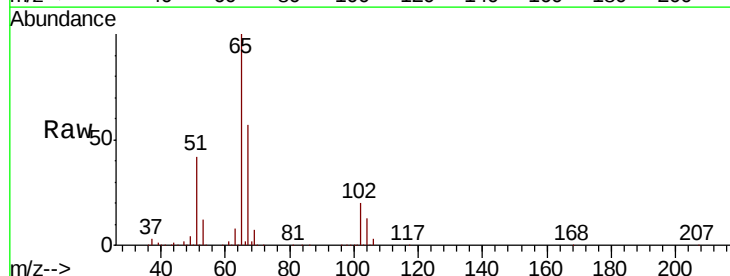


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

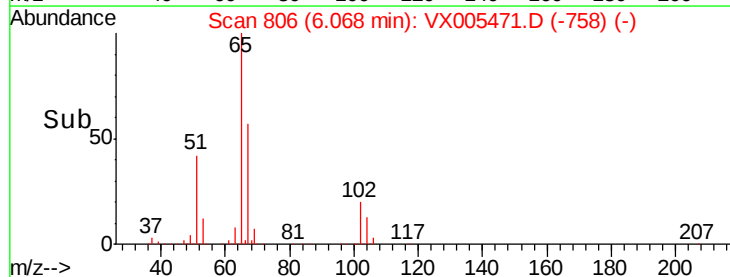
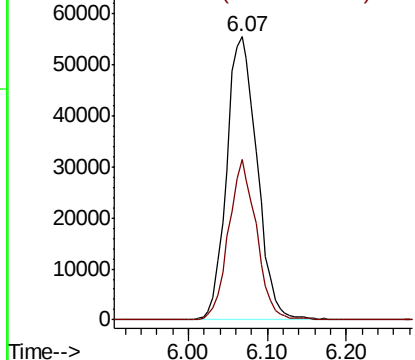


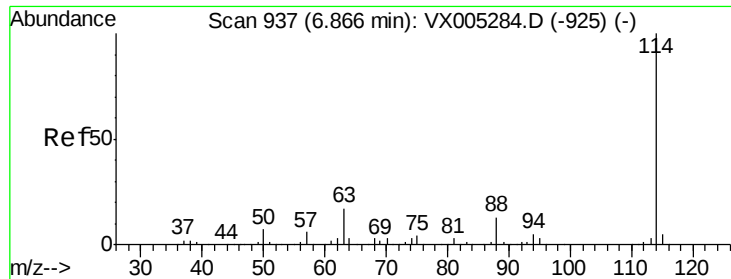
#33
1,2-Dichloroethane-d4
Concen: 58.141 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Tgt Ion: 65 Resp: 148602
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.8



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

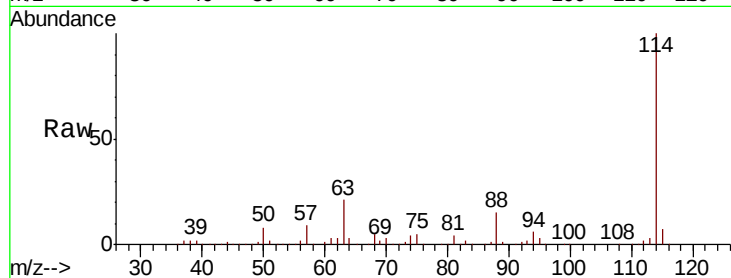




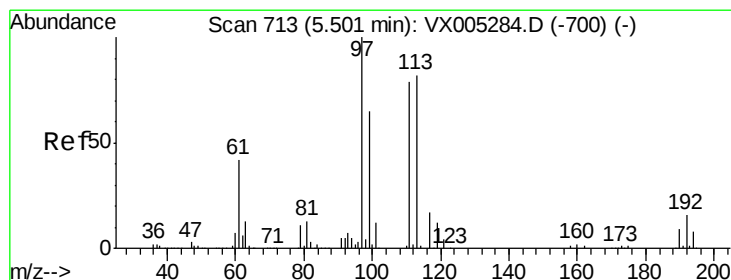
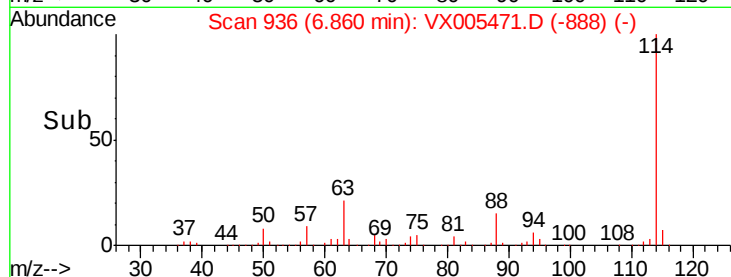
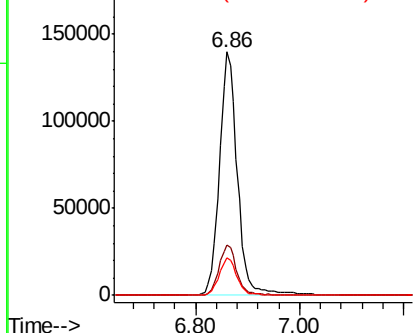
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.01 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Instrument :
MSVOA_X
ClientSampleId :
PB114041ZHE#01

Tot Ion:114 Resp: 339951
Ion Ratio Lower Upper
114 100
63 20.9 0.0 39.0
88 15.3 0.0 30.4

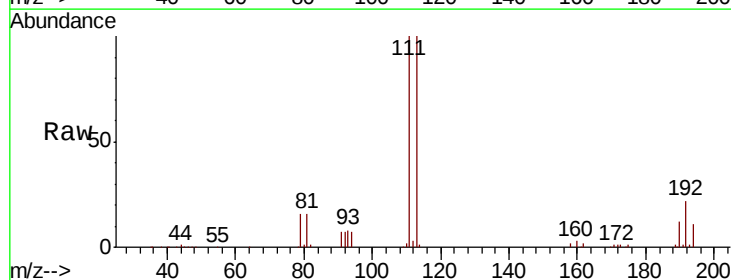


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

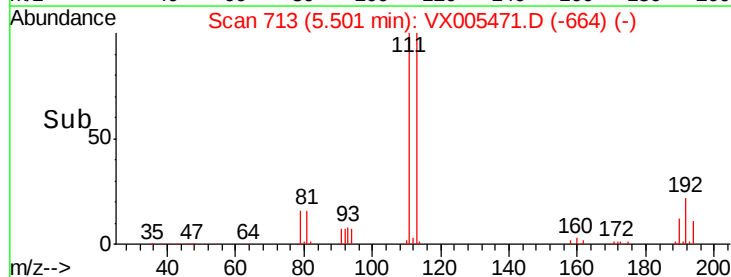
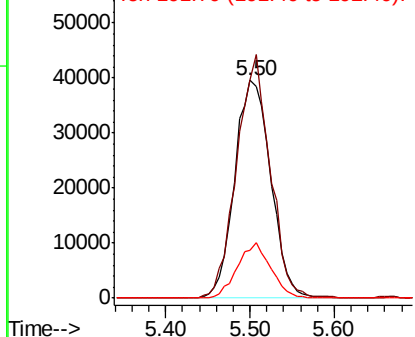


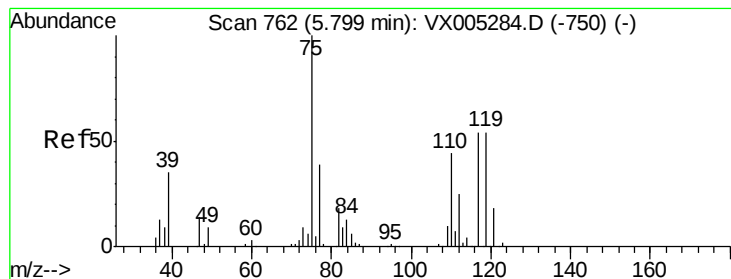
#35
Dibromofluoromethane
Concen: 50.926 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Tgt Ion:113 Resp: 114664
Ion Ratio Lower Upper
113 100
111 103.2 82.4 123.6
192 23.5 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: 4.740 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#01

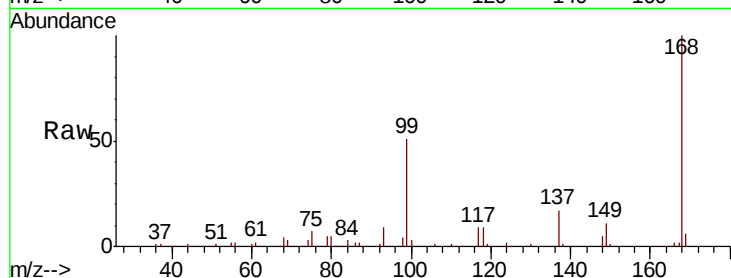
Tot Ion: 75 Resp: 15606

Ion Ratio Lower Upper

75 100

110 9.8 18.0 54.0#

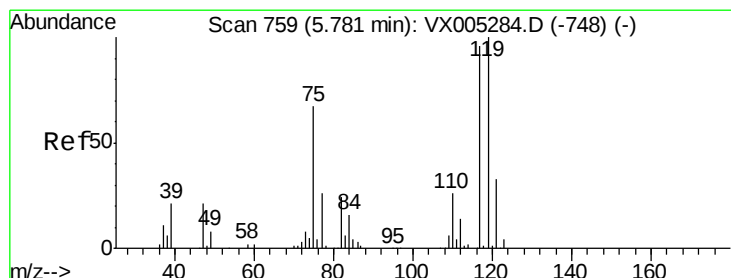
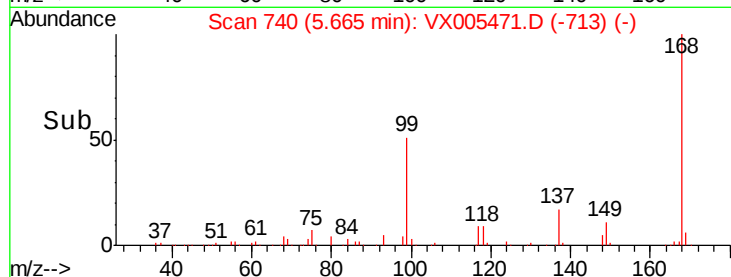
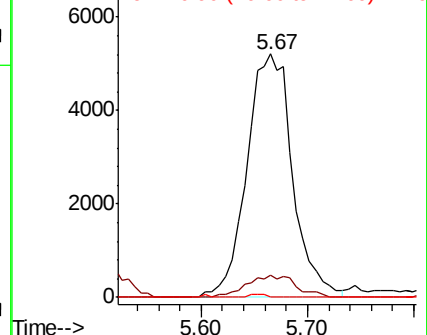
77 0.4 24.6 36.8#



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: 6.258 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

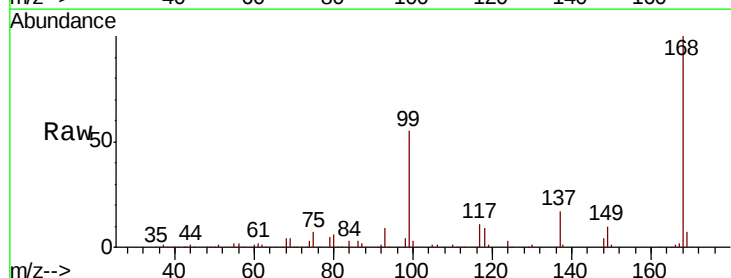
Tgt Ion: 117 Resp: 20702

Ion Ratio Lower Upper

117 100

119 5.8 78.8 118.2#

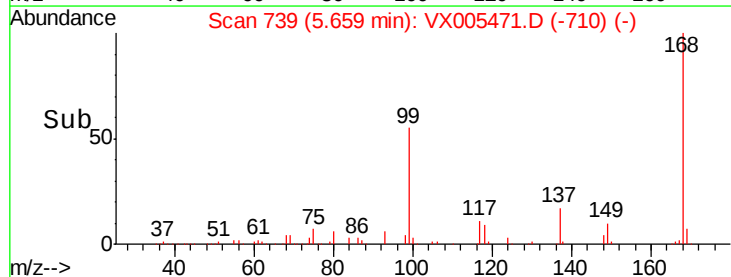
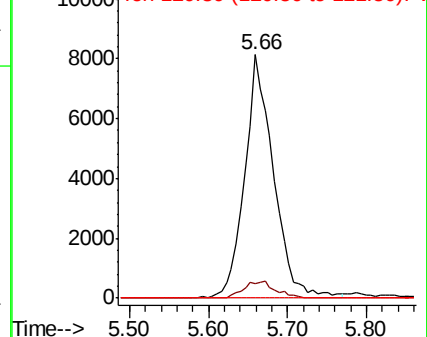
121 0.0 24.9 37.3#

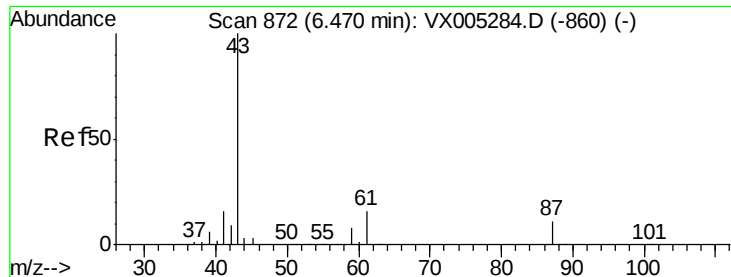


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



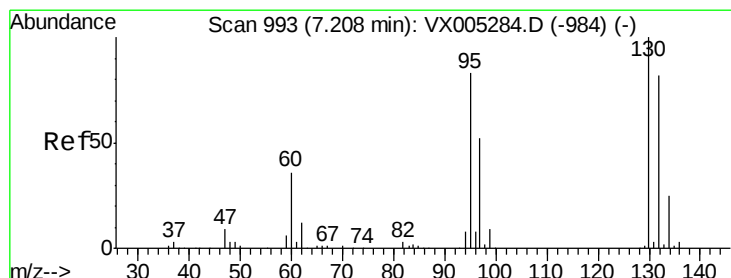
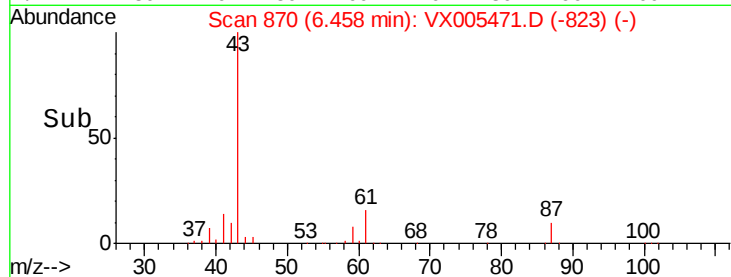
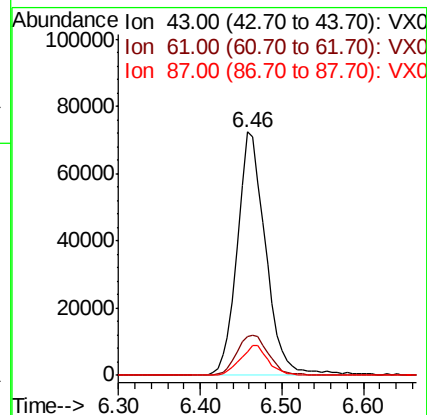
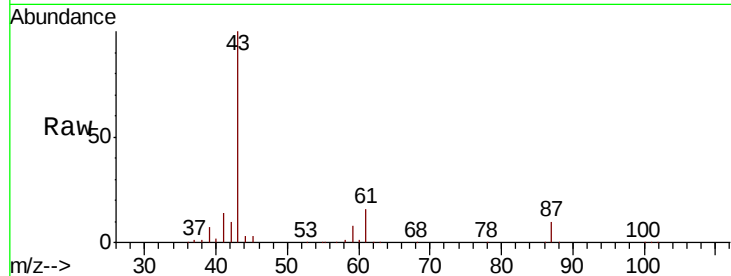


#43

Isopropyl Acetate
 Concen: 30.779 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.01 min
 Lab File: VX005471.D
 Acq: 22 Oct 2018 15:40

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114041ZHE#01

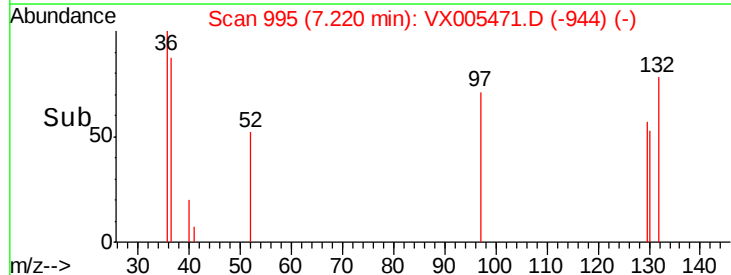
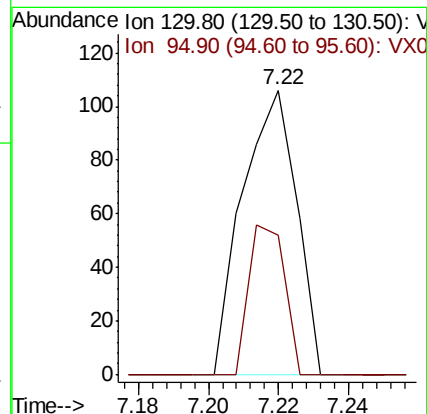
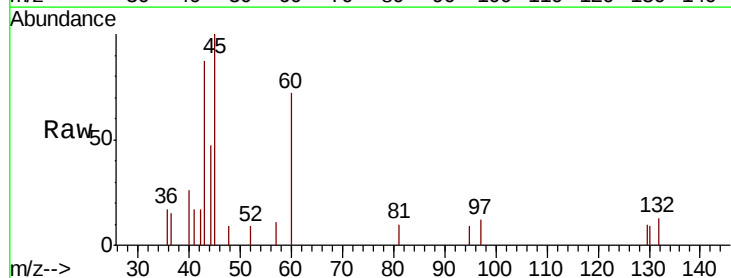
Tot Ion	43	Resp	173603
Ion Ratio	Lower	Upper	
43	100		
61	18.8	17.0	25.4
87	12.3	11.4	17.2

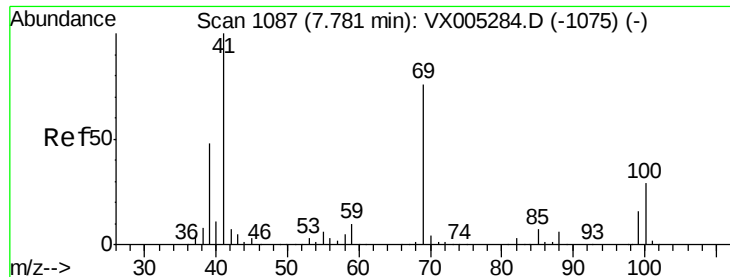


#44

Trichloroethene
 Concen: Below Cal
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX005471.D
 Acq: 22 Oct 2018 15:40

Tgt Ion	130	Resp	113
Ion Ratio	Lower	Upper	
130	100		
95	49.1	0.0	181.6

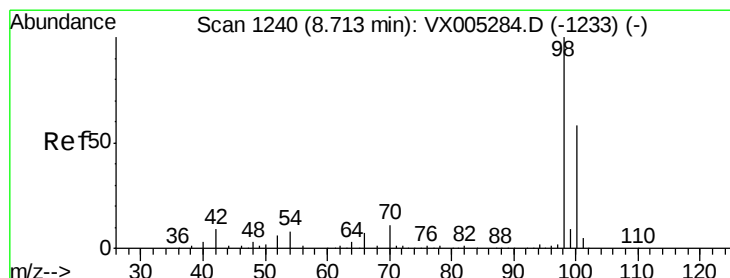
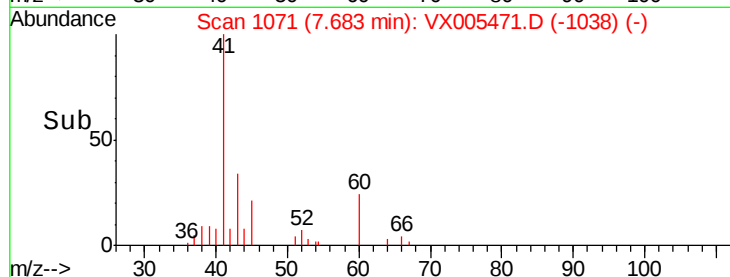
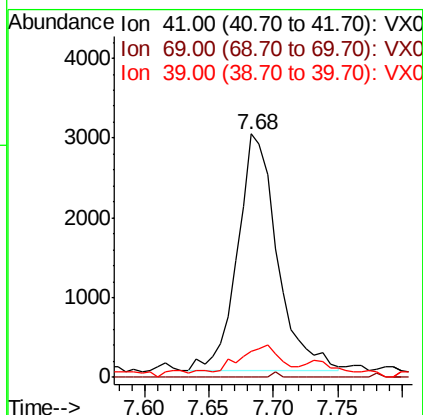
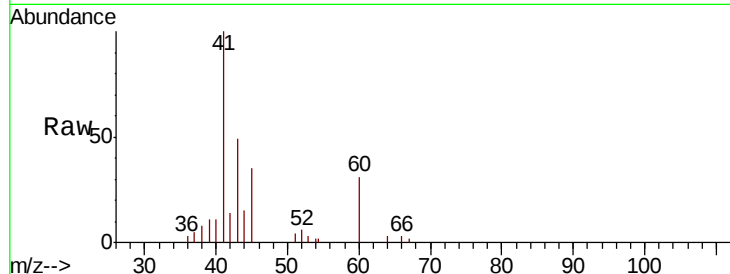




#48
Methvl methacrylate
Concen: 2.170 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.10 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

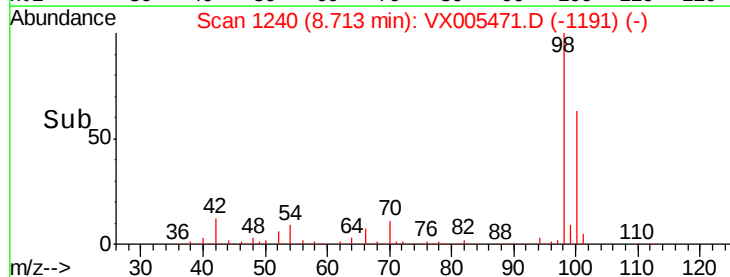
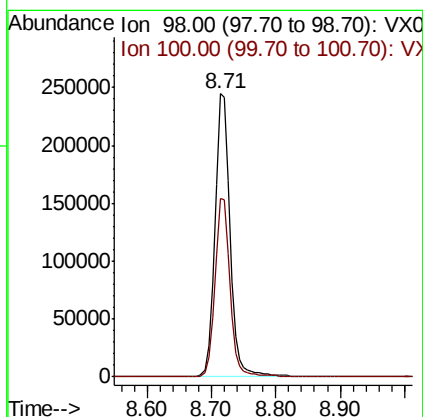
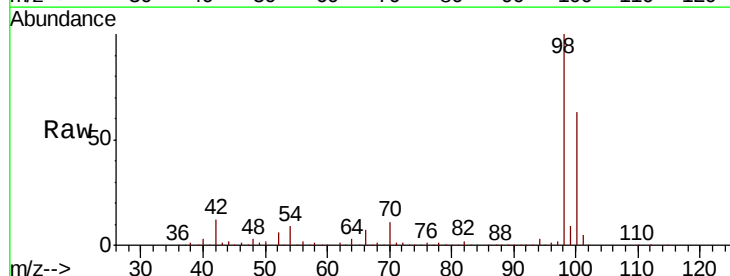
Instrument :
MSVOA_X
ClientSampleId :
PB114041ZHE#01

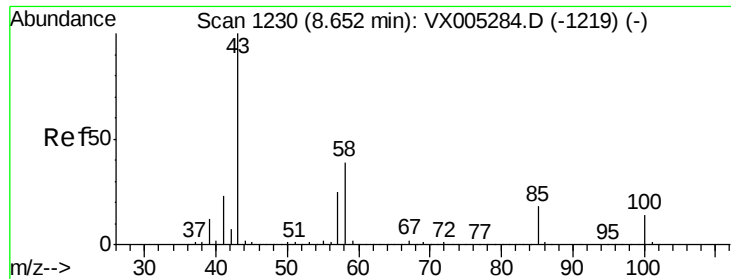
Tot Ion: 41 Resp: 6348
Ion Ratio Lower Upper
41 100
69 0.4 70.2 105.4#
39 13.4 42.7 64.1#



#50
Toluene-d8
Concen: 52.742 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Tgt Ion: 98 Resp: 407686
Ion Ratio Lower Upper
98 100
100 62.9 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 0.730 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

Instrument :

MSVOA_X

ClientSampleId :

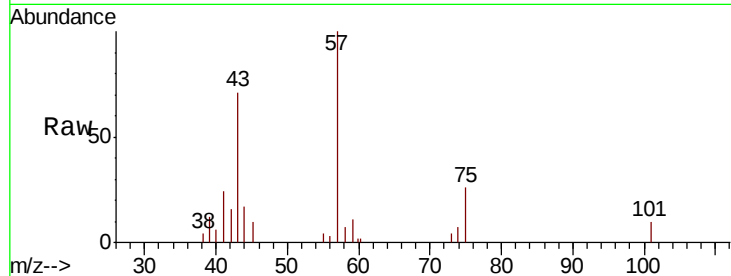
PB114041ZHE#01

Tot Ion: 43 Resp: 2851

Ion Ratio Lower Upper

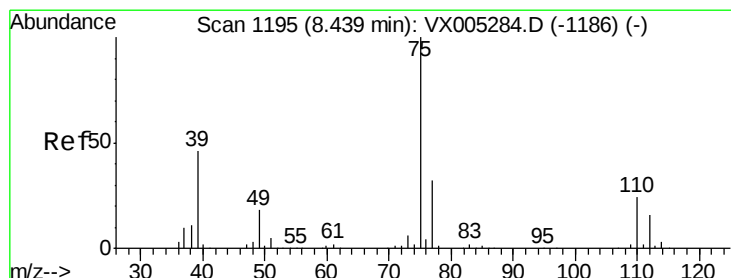
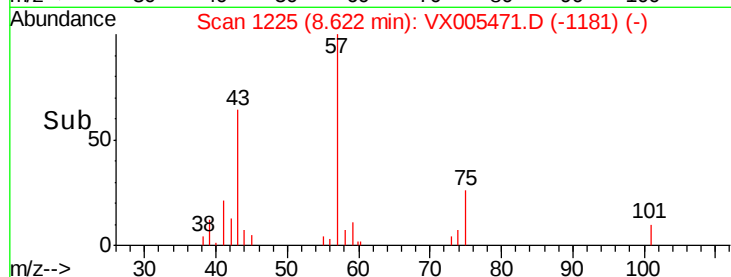
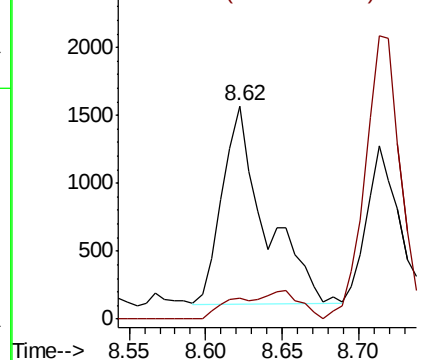
43 100

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



#54

cis-1,3-Dichloropropene

Concen: 0.306 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

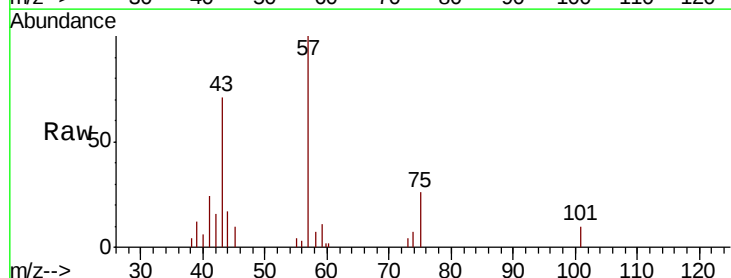
Tgt Ion: 75 Resp: 1061

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

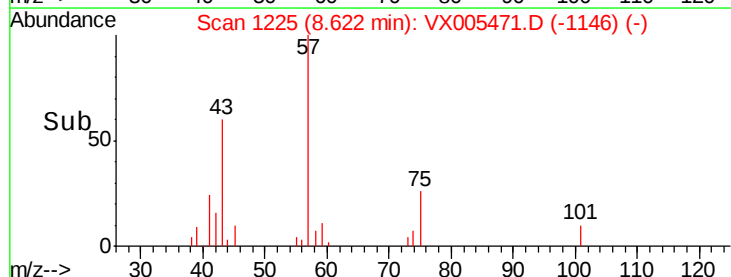
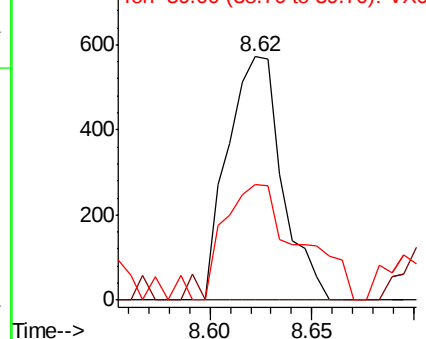
39 47.7 36.4 54.6

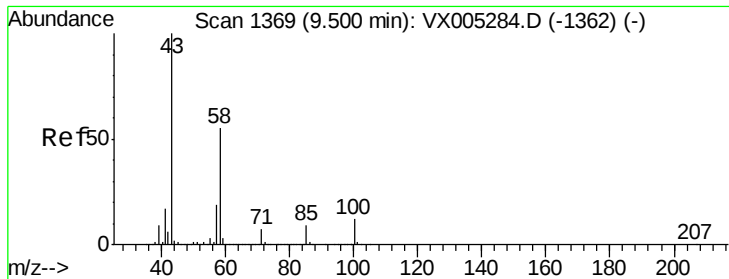


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

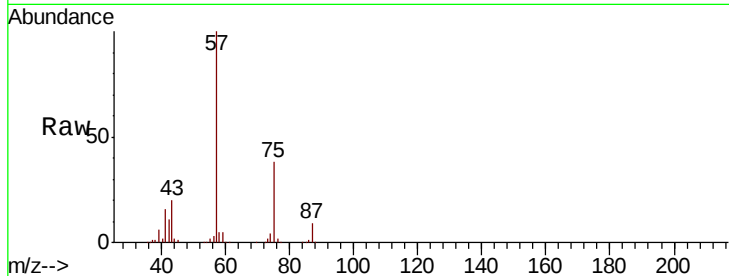




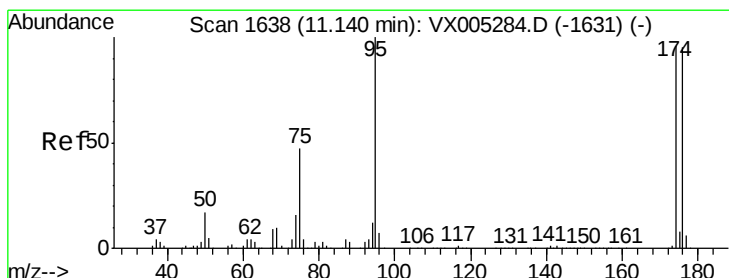
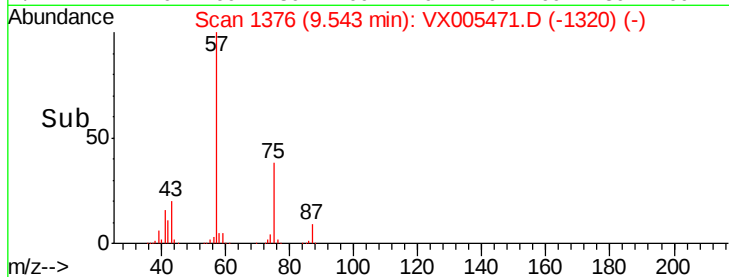
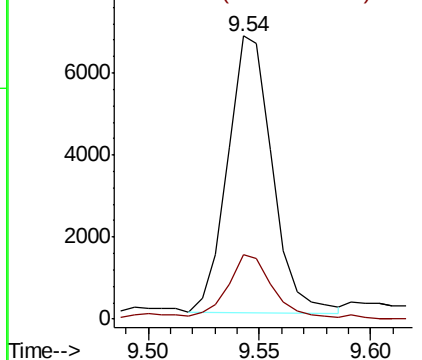
#59
2-Hexanone
Concen: 2.993 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Instrument :
MSVOA_X
ClientSampleId :
PB114041ZHE#01

Tot Ion: 43 Resp: 9402
Ion Ratio Lower Upper
43 100
58 24.5 29.0 87.0#

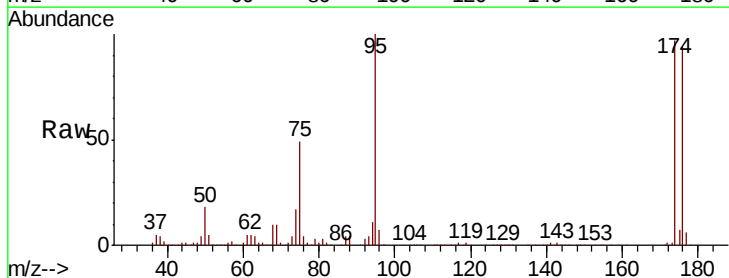


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

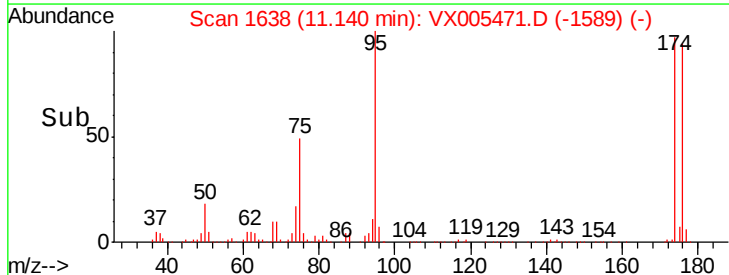
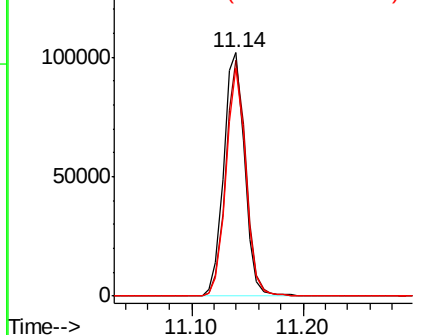


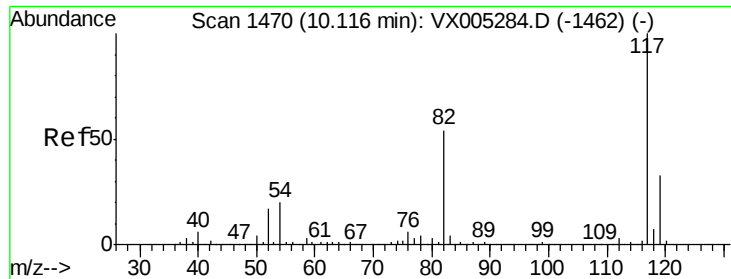
#62
4-Bromofluorobenzene
Concen: 45.714 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Tgt Ion: 95 Resp: 132744
Ion Ratio Lower Upper
95 100
174 93.5 0.0 185.2
176 88.8 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

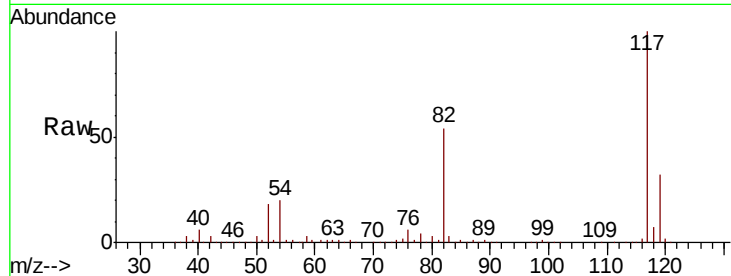




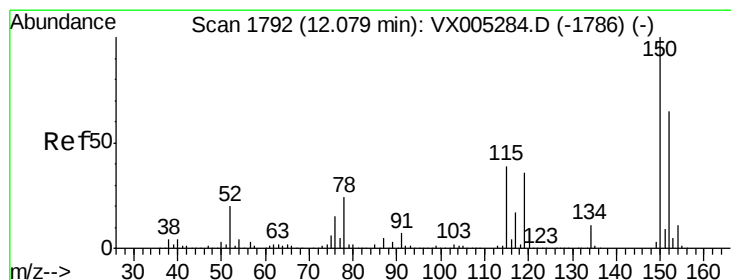
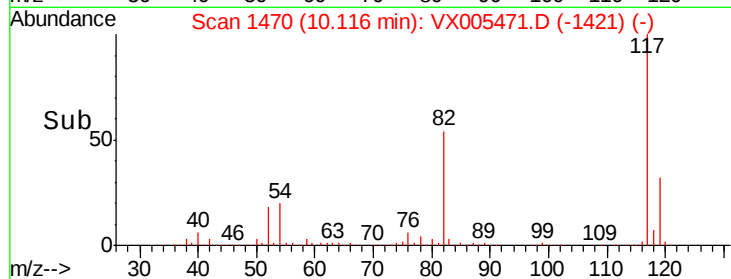
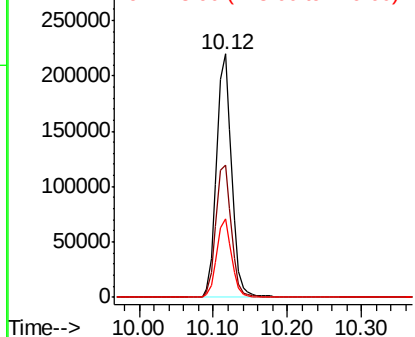
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Instrument :
MSVOA_X
ClientSampleId :
PB114041ZHE#01

Tot Ion:117 Resp: 304753
Ion Ratio Lower Upper
117 100
82 54.1 47.8 71.6
119 32.0 29.3 43.9

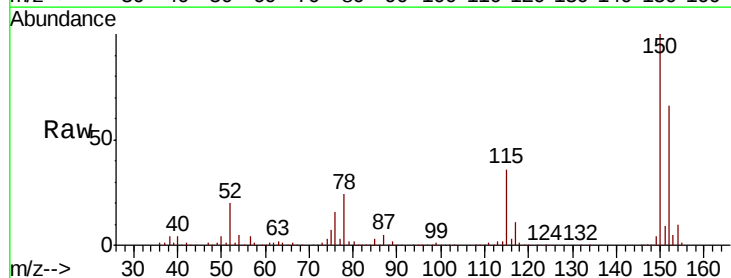


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

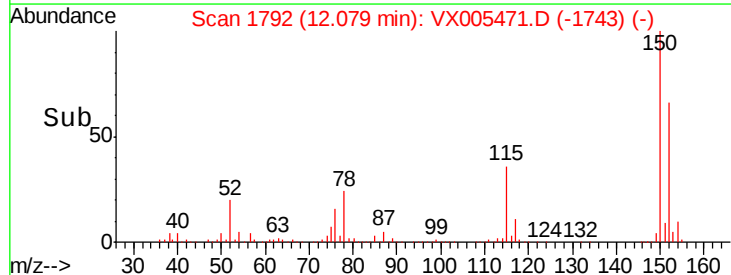
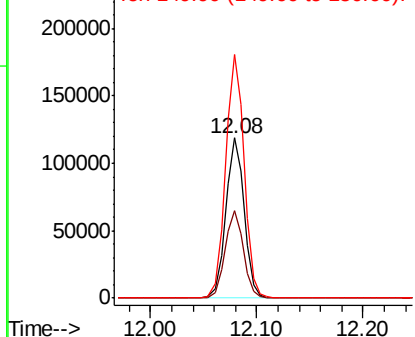


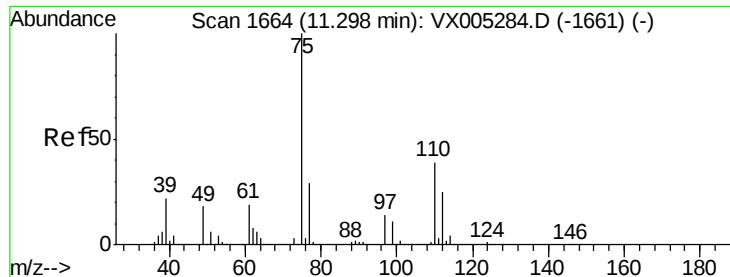
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005471.D
Acq: 22 Oct 2018 15:40

Tgt Ion:152 Resp: 142665
Ion Ratio Lower Upper
152 100
115 54.8 39.0 117.0
150 153.5 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: 23.482 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

Instrument :

MSVOA_X

ClientSampleId :

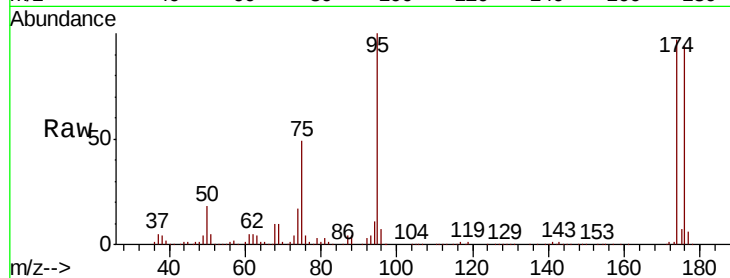
PB114041ZHE#01

Tot Ion: 75 Resp: 64982

Ion Ratio Lower Upper

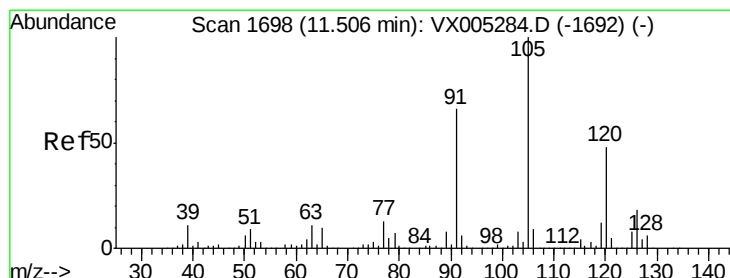
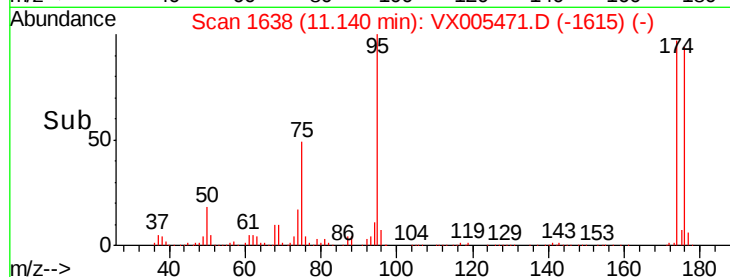
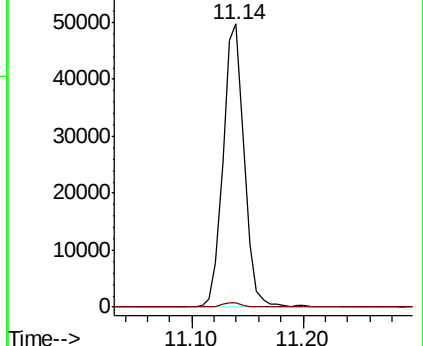
75 100

77 1.5 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#80

1,3,5-Trimethylbenzene

Concen: 0.297 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX005471.D

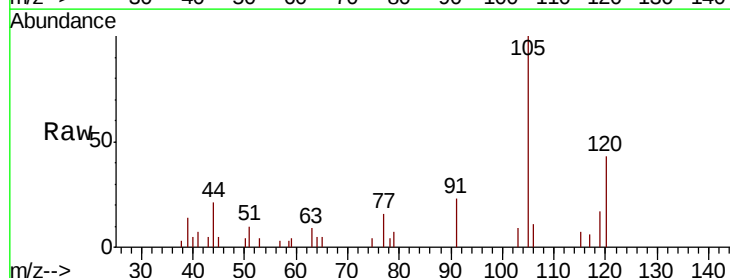
Acq: 22 Oct 2018 15:40

Tgt Ion:105 Resp: 2154

Ion Ratio Lower Upper

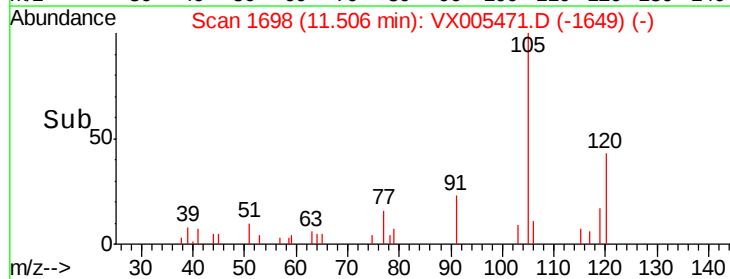
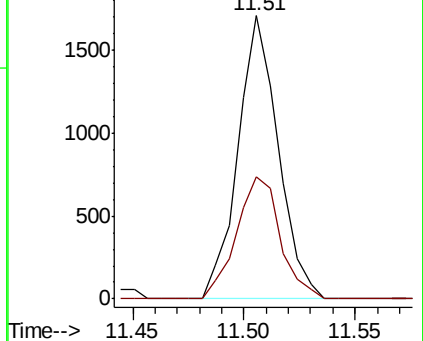
105 100

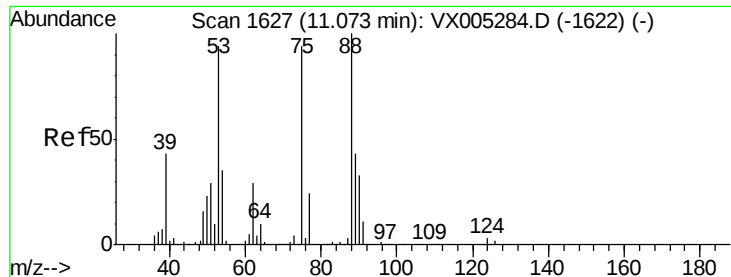
120 46.9 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 71.350 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005471.D

Acq: 22 Oct 2018 15:40

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#01

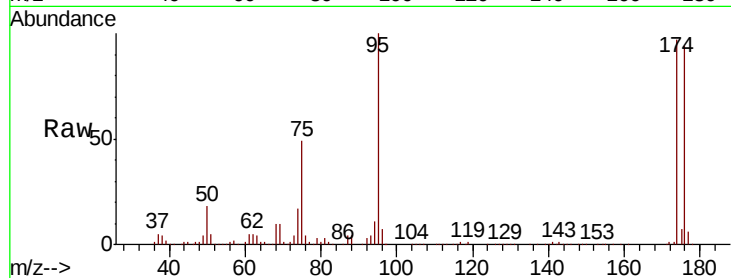
Tot Ion: 75 Resp: 64982

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



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

