

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020519\
 Data File : VX007377.D
 Acq On : 05 Feb 2019 15:25
 Operator : JC/SP
 Sample : PB116824ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116824ZHE#03

Quant Time: Feb 06 00:17:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	484877	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	752087	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	710639	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	352183	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	264437	51.38	ug/l	0.00
Spiked Amount			Recovery	=	102.76%	
35) Dibromofluoromethane	5.51	113	236566	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
50) Toluene-d8	8.71	98	929694	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
62) 4-Bromofluorobenzene	11.14	95	321541	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	

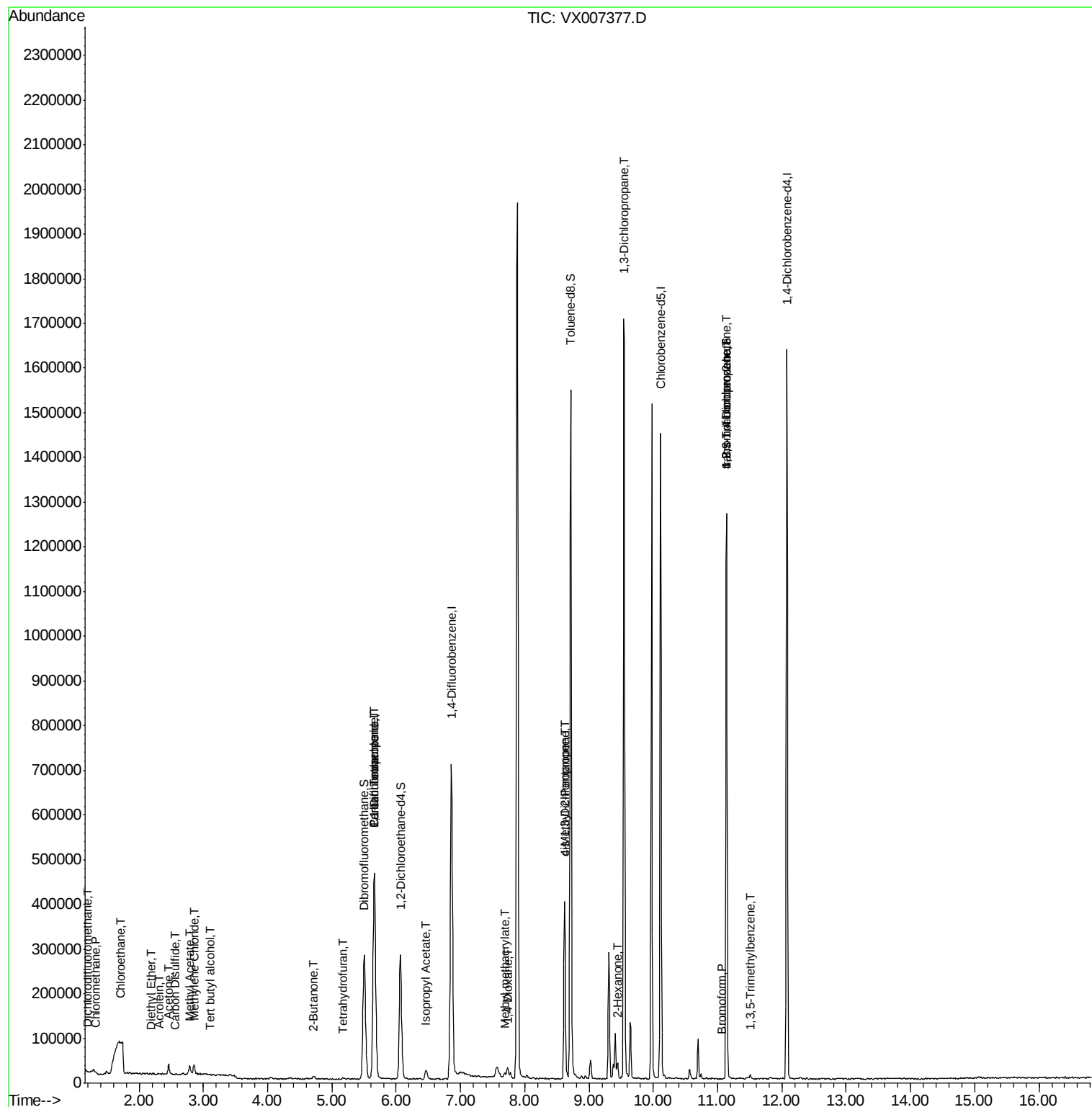
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	165	0.205	ug/l	99
3) Chloromethane	1.33	50	1387	0.254	ug/l #	85
5) Bromomethane	1.64	94	1932	Below Cal		90
6) Chloroethane	1.71	64	1939	0.559	ug/l #	41
8) Diethyl Ether	2.19	74	644	0.204	ug/l	55
11) Tert butyl alcohol	3.09	59	680	0.638	ug/l #	1
13) Acrolein	2.32	56	497	0.995	ug/l #	74
16) Acetone	2.46	43	25903	10.987	ug/l	96
17) Carbon Disulfide	2.56	76	1574	2.246	ug/l #	87
18) Methyl Acetate	2.78	43	27900	5.081	ug/l	96
20) Methylene Chloride	2.85	84	10801	1.864	ug/l	93
25) 2-Butanone	4.71	43	10981	3.273	ug/l	97
29) Tetrahydrofuran	5.18	42	2498	1.184	ug/l #	71
36) 1,1-Dichloropropene	5.66	75	31202	4.624	ug/l #	49
38) Carbon Tetrachloride	5.66	117	44500	6.797	ug/l #	17
43) Isopropyl Acetate	6.46	43	26592	2.526	ug/l	96
48) Methyl methacrylate	7.69	41	15872	3.014	ug/l #	21
49) 1,4-Dioxane	7.73	88	257	9.010	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	133601	19.275	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	66909	9.233	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	14940	1.757	ug/l #	45
59) 2-Hexanone	9.44	43	20925	3.880	ug/l #	24
71) Bromoform	11.05	173	130	4.056	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	152794	22.304	ug/l #	32
80) 1,3,5-Trimethylbenzene	11.51	105	4284	0.219	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.14	75	152794	67.339	ug/l #	9

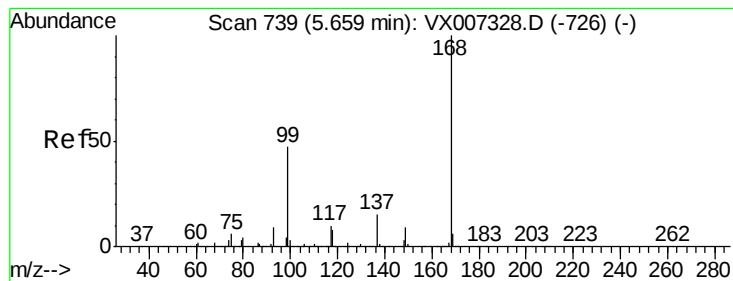
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

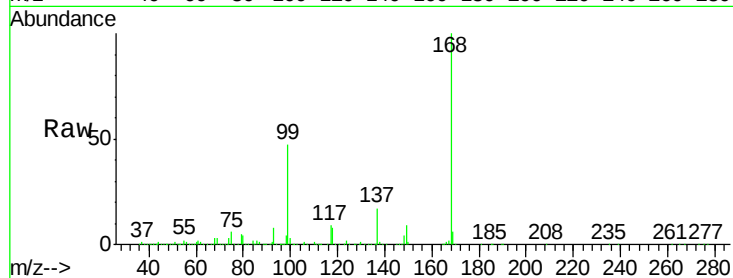
PB116824ZHE#03

Tot Ion:168 Resp: 484877

Ion Ratio Lower Upper

168 100

99 46.6 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

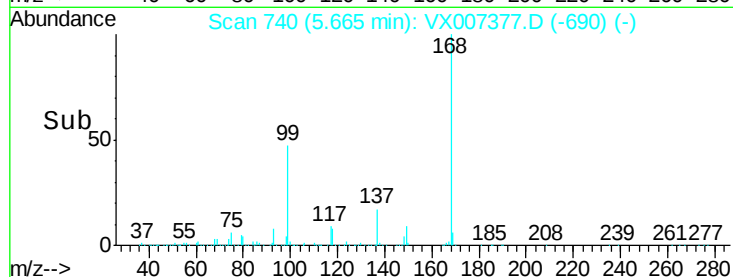
100000

50000

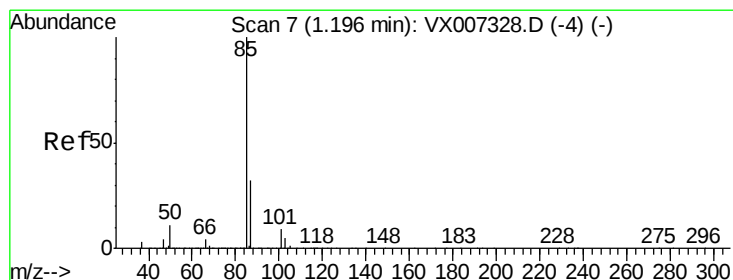
0

5.50 5.60 5.70 5.80

5.67



Time-->



#2

Dichlorodifluoromethane

Concen: 0.205 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007377.D

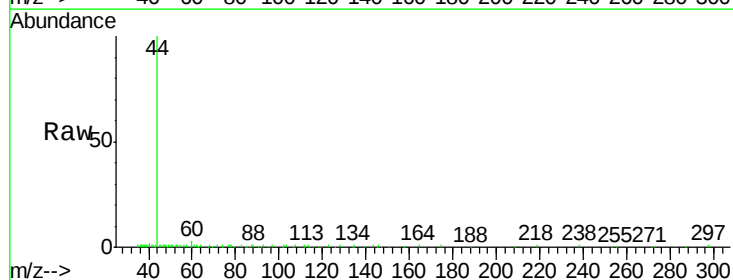
Acq: 05 Feb 2019 15:25

Tgt Ion: 85 Resp: 165

Ion Ratio Lower Upper

85 100

87 30.9 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

250

200

150

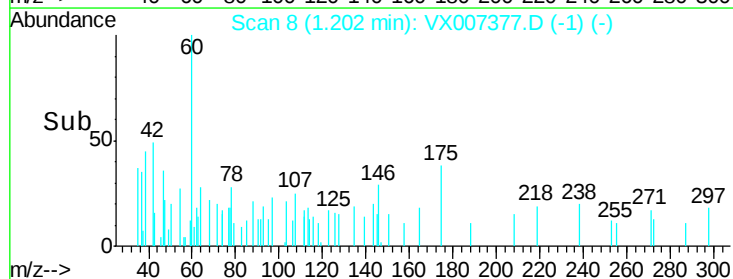
100

50

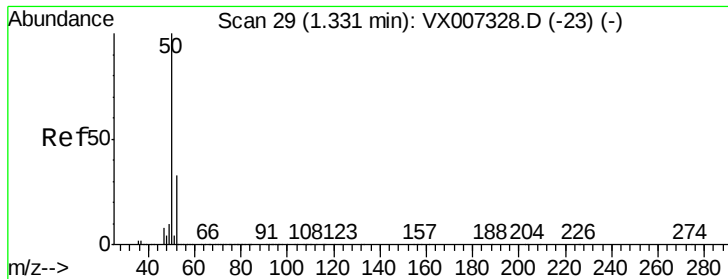
0

1.18 1.20 1.22

1.20



Time-->



#3

Chloromethane

Concen: 0.254 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

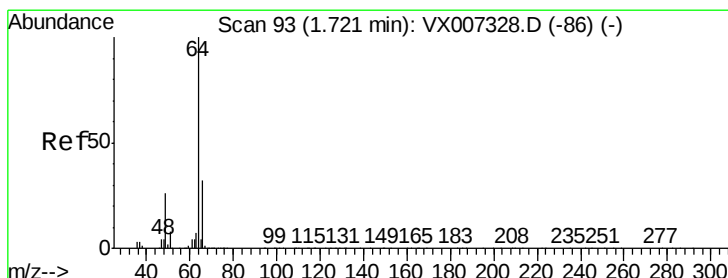
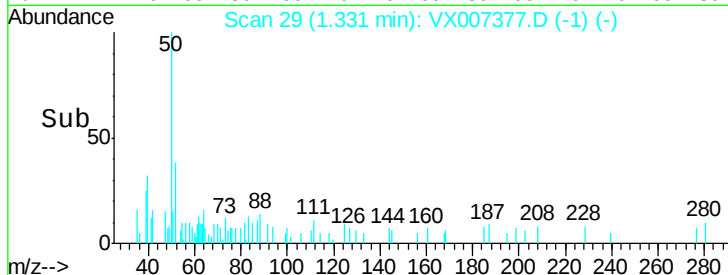
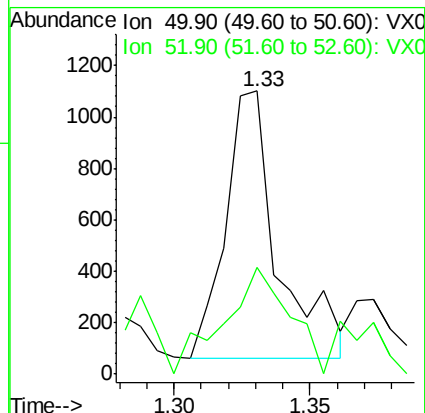
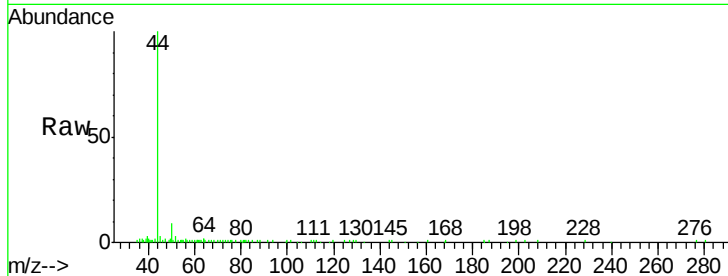
PB116824ZHE#03

Tot Ion: 50 Resp: 1387

Ion Ratio Lower Upper

50 100

52 24.4 26.1 39.1#



#6

Chloroethane

Concen: 0.559 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.01 min

Lab File: VX007377.D

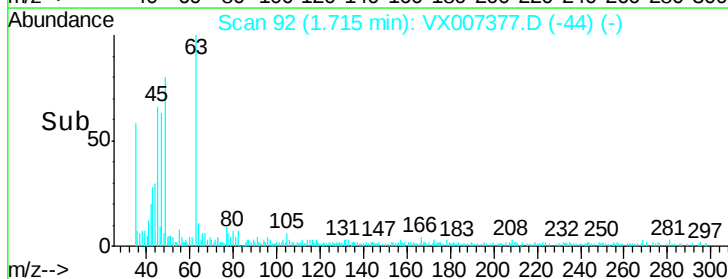
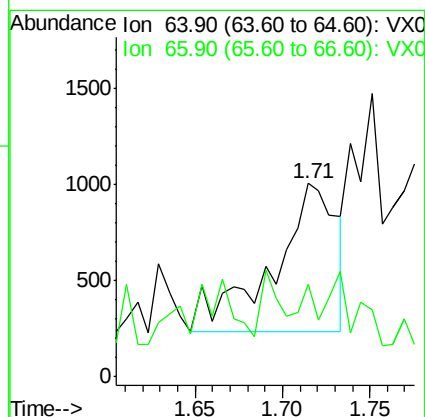
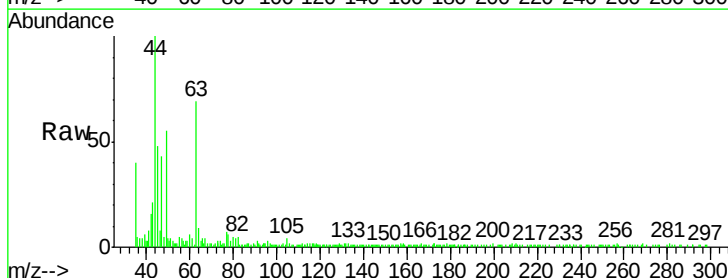
Acq: 05 Feb 2019 15:25

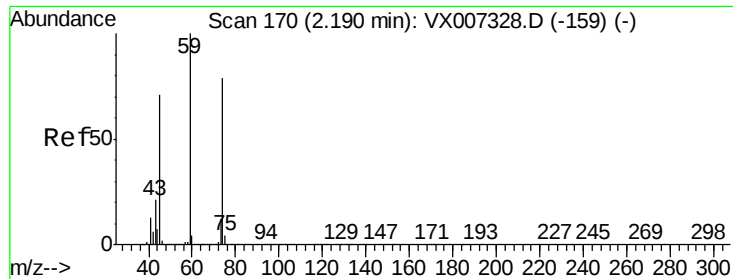
Tgt Ion: 64 Resp: 1939

Ion Ratio Lower Upper

64 100

66 65.0 25.5 38.3#





#8

Diethyl Ether

Concen: 0.204 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

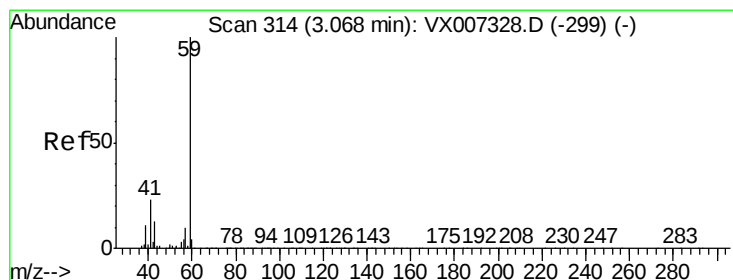
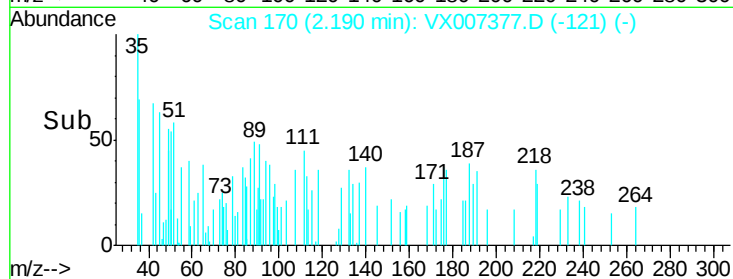
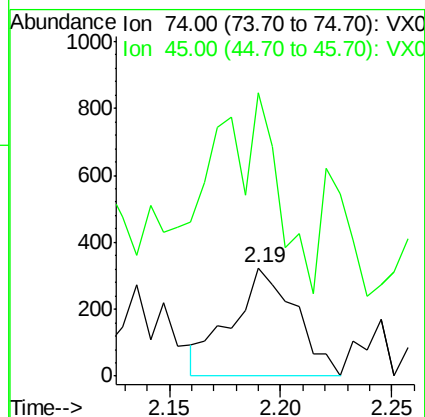
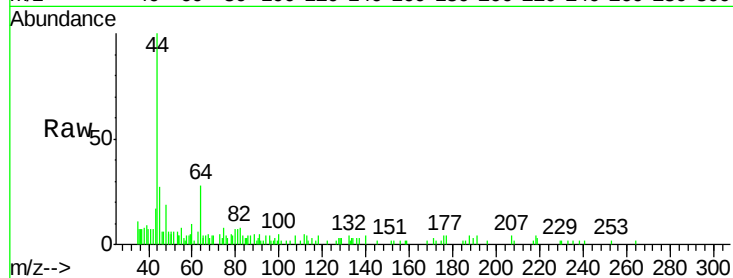
PB116824ZHE#03

Tot Ion: 74 Resp: 644

Ion Ratio Lower Upper

74 100

45 48.9 45.7 137.1



#11

Tert butyl alcohol

Concen: 0.638 ug/l

RT: 3.09 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX007377.D

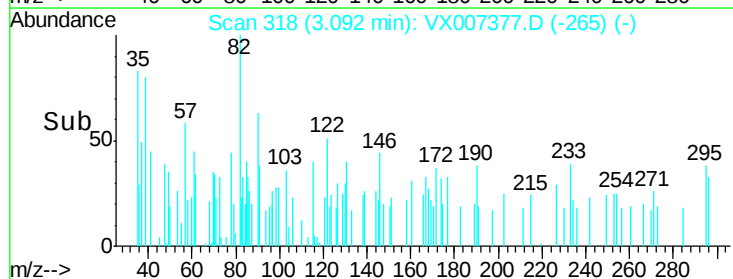
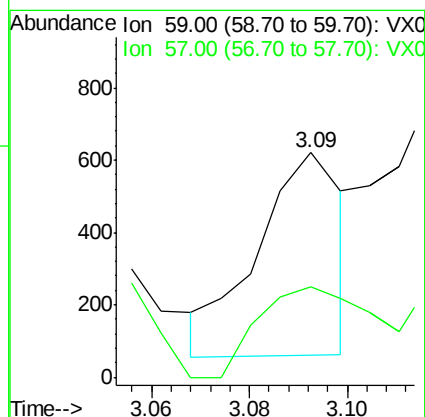
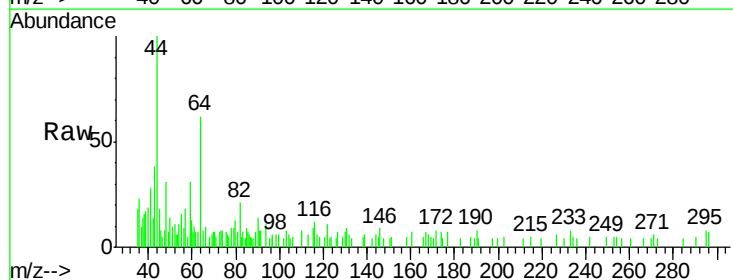
Acq: 05 Feb 2019 15:25

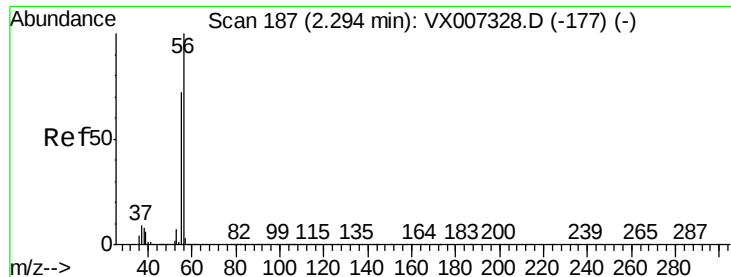
Tgt Ion: 59 Resp: 680

Ion Ratio Lower Upper

59 100

57 61.2 8.1 12.1#





#13

Acrolein

Concen: 0.995 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

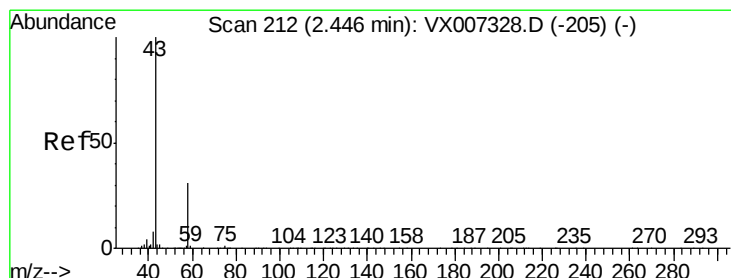
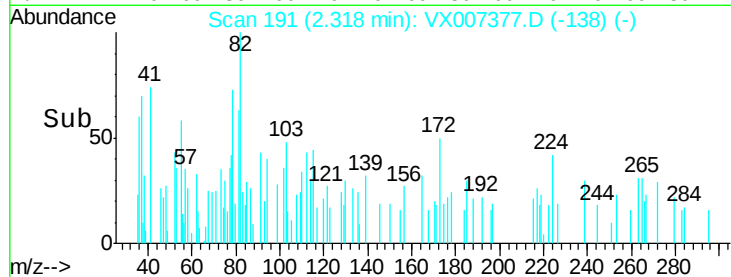
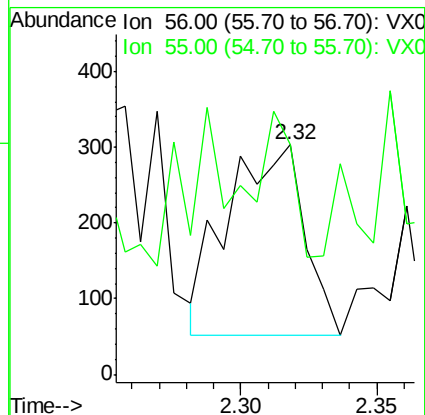
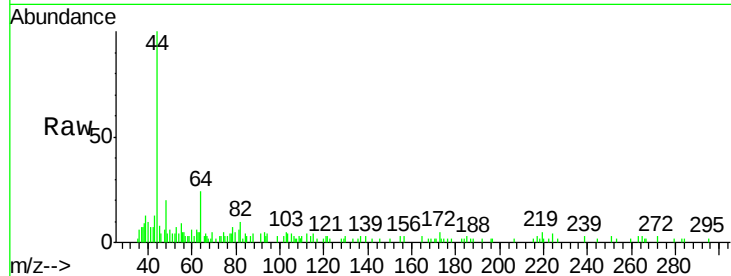
PB116824ZHE#03

Tot Ion: 56 Resp: 497

Ion Ratio Lower Upper

56 100

55 49.3 56.9 85.3#



#16

Acetone

Concen: 10.987 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX007377.D

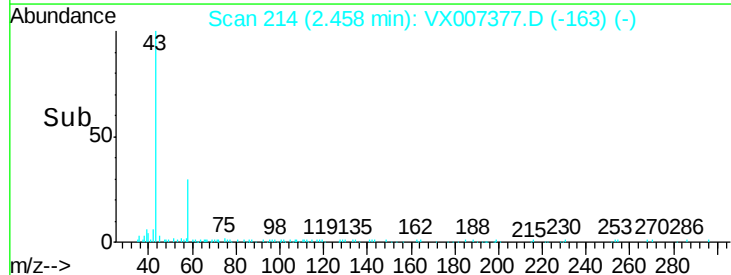
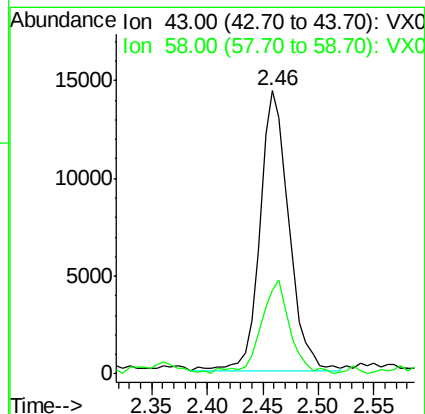
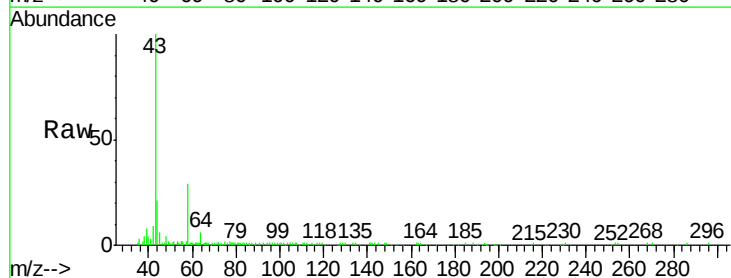
Acq: 05 Feb 2019 15:25

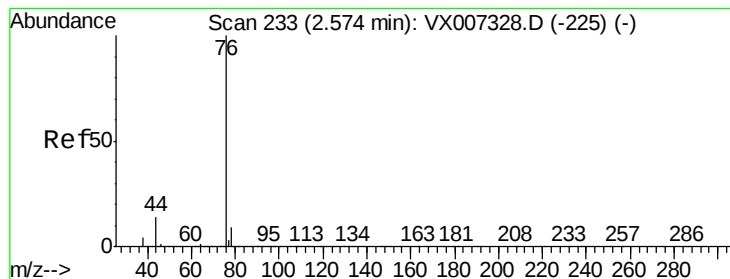
Tgt Ion: 43 Resp: 25903

Ion Ratio Lower Upper

43 100

58 29.0 24.9 37.3





#17

Carbon Disulfide

Concen: 2.246 ug/l

RT: 2.56 min Scan# 230

Delta R.T. -0.02 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

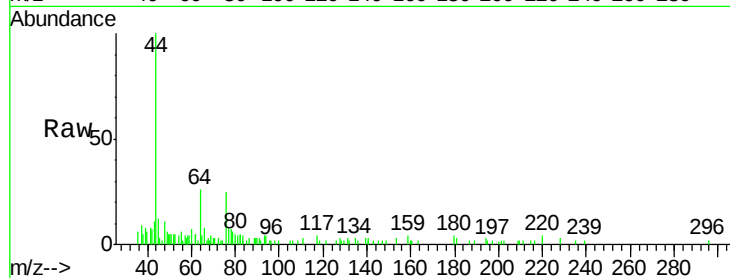
PB116824ZHE#03

Tot Ion: 76 Resp: 1574

Ion Ratio Lower Upper

76 100

78 4.1 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

800

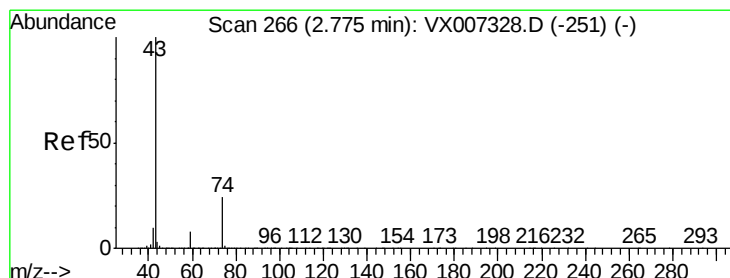
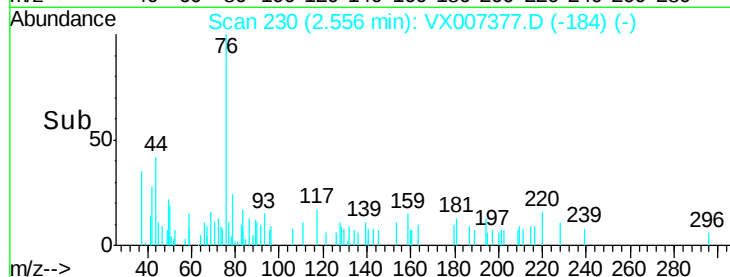
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 5.081 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007377.D

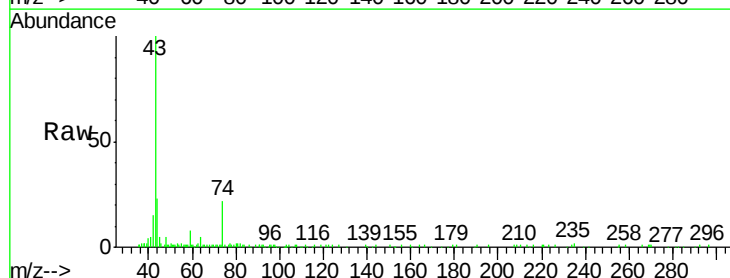
Acq: 05 Feb 2019 15:25

Tgt Ion: 43 Resp: 27900

Ion Ratio Lower Upper

43 100

74 22.3 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

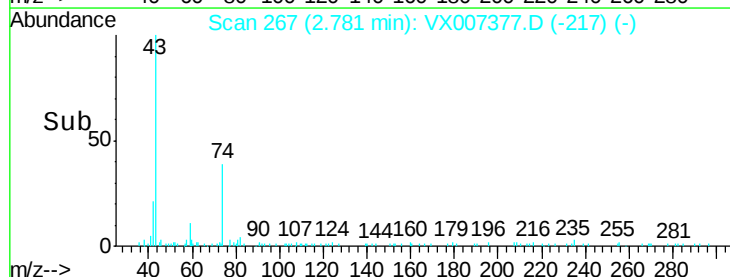
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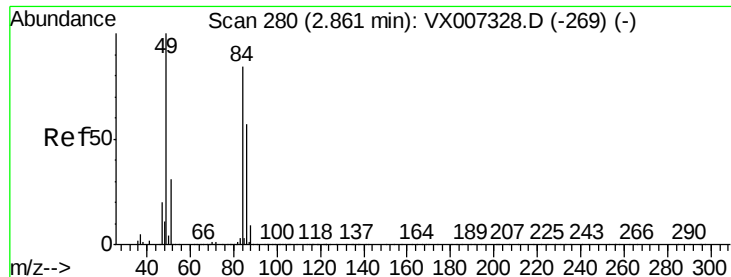
10000

5000

0

Time-->

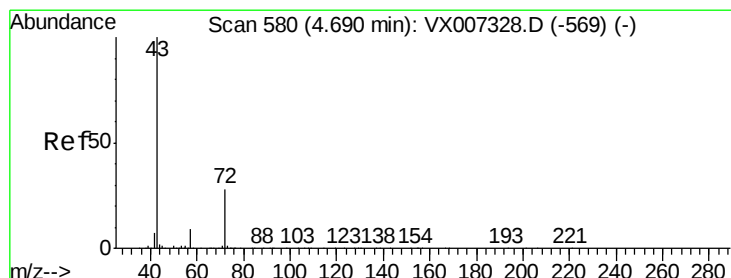
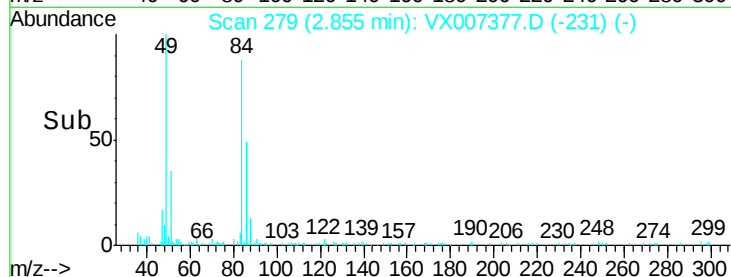
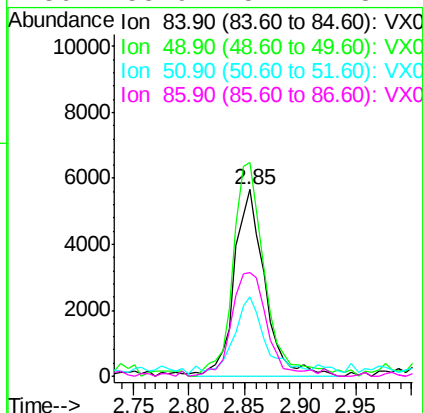
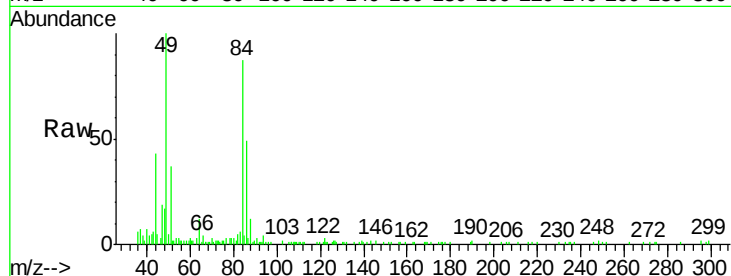




#20
Methvlene Chloride
Concen: 1.864 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007377.D
Acq: 05 Feb 2019 15:25

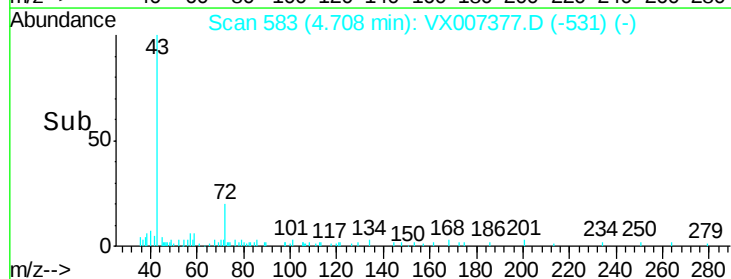
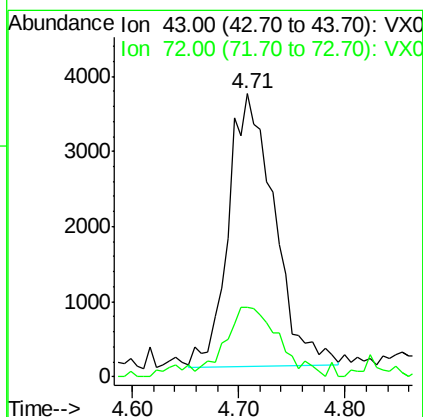
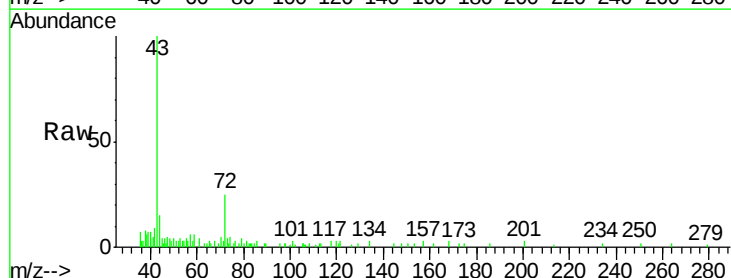
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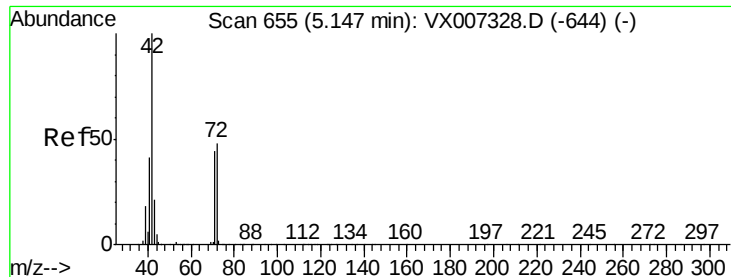
Tot Ion:	84	Resp:	10801
Ion	Ratio	Lower	Upper
84	100		
49	114.6	94.8	142.2
51	40.6	29.8	44.8
86	55.9	54.1	81.1



#25
2-Butanone
Concen: 3.273 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX007377.D
Acq: 05 Feb 2019 15:25

Tgt Ion:	43	Resp:	10981
Ion	Ratio	Lower	Upper
43	100		
72	25.9	22.2	33.2





#29

Tetrahydrofuran

Concen: 1.184 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.03 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#03

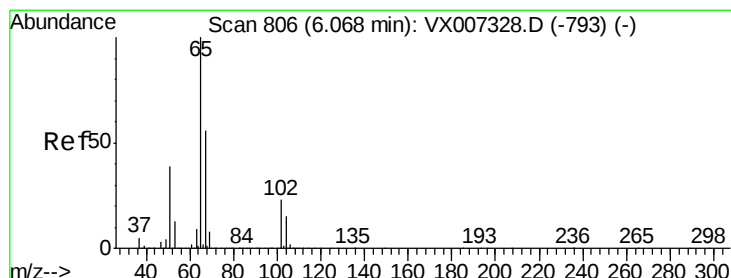
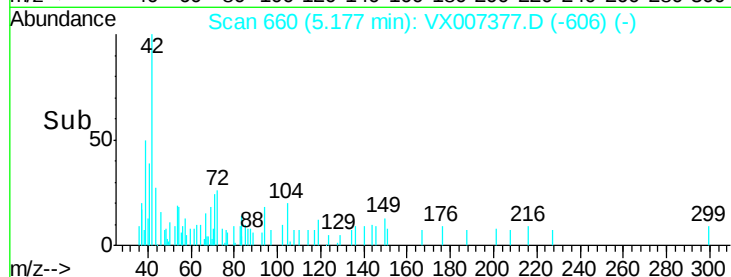
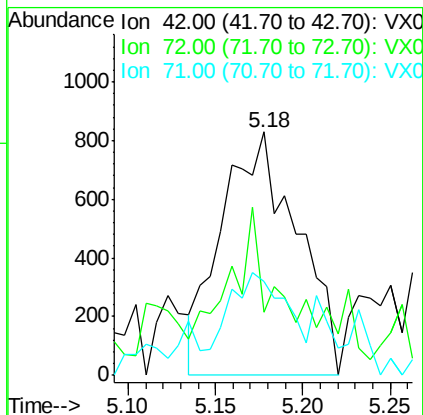
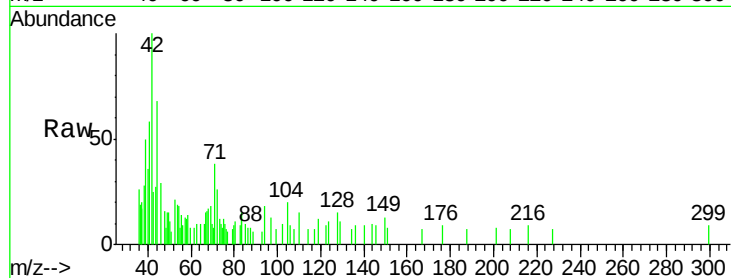
Tot Ion: 42 Resp: 2498

Ion Ratio Lower Upper

42 100

72 26.4 37.6 56.4#

71 25.7 34.6 51.8#



#33

1,2-Dichloroethane-d4

Concen: 51.381 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007377.D

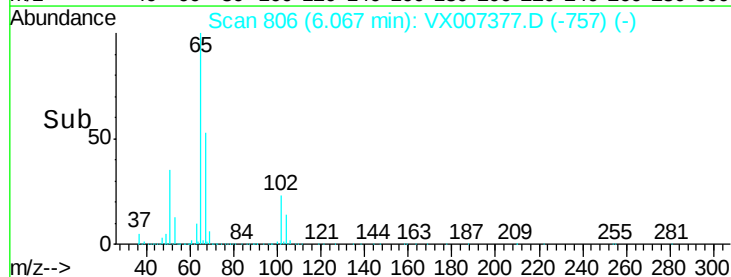
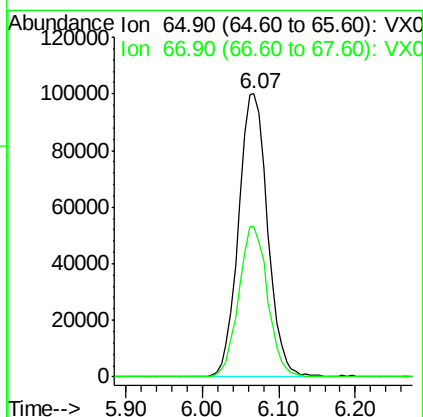
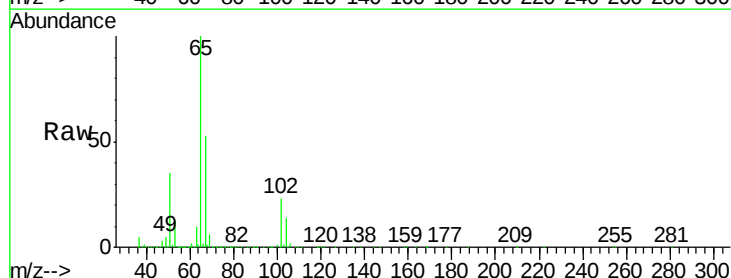
Acq: 05 Feb 2019 15:25

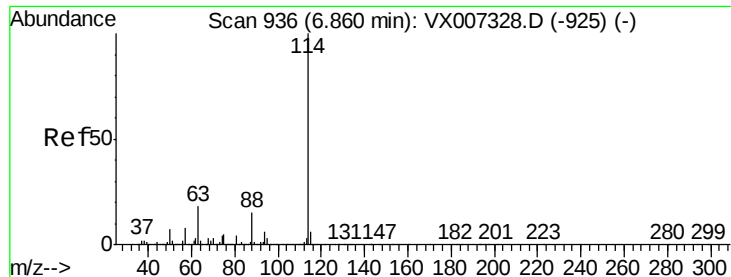
Tgt Ion: 65 Resp: 264437

Ion Ratio Lower Upper

65 100

67 52.7 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#03

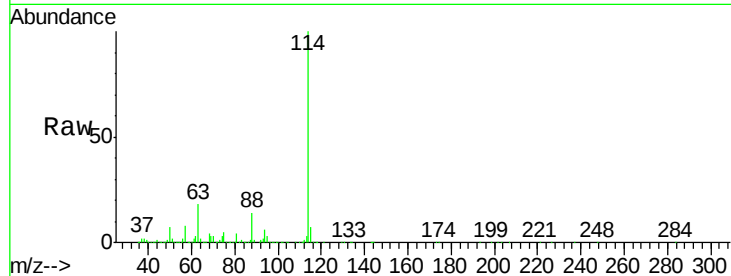
Tot Ion:114 Resp: 752087

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

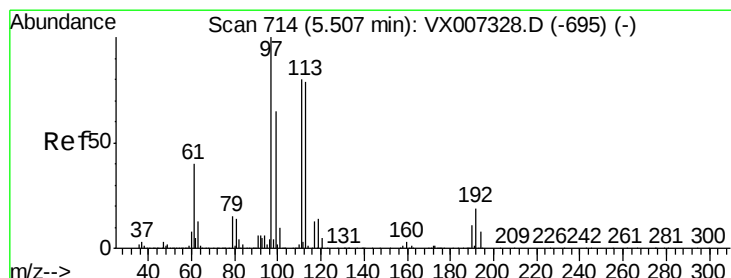
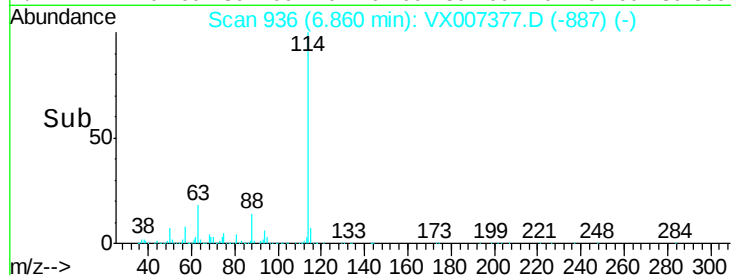
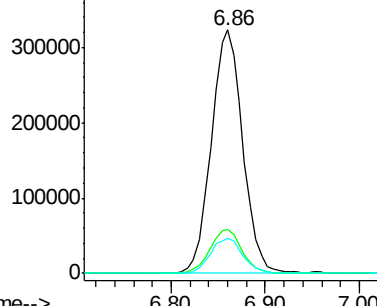
88 14.4 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.342 ug/l

RT: 5.51 min Scan# 714

Delta R.T. -0.00 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

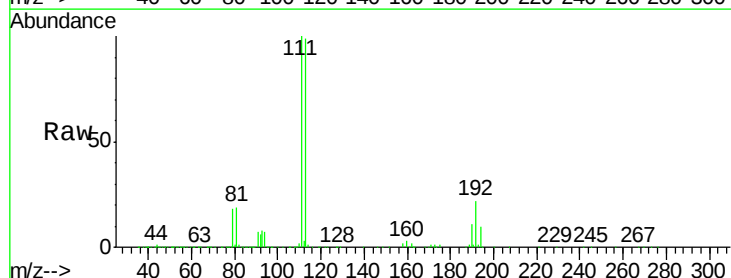
Tgt Ion:113 Resp: 236566

Ion Ratio Lower Upper

113 100

111 100.8 81.8 122.8

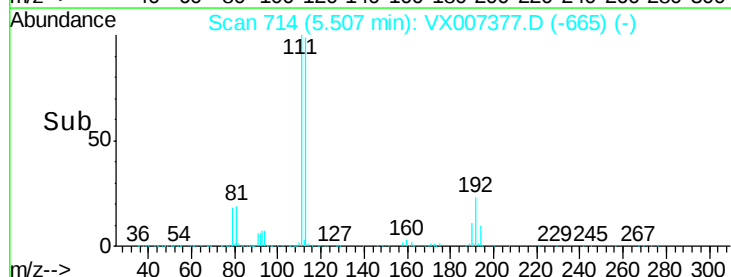
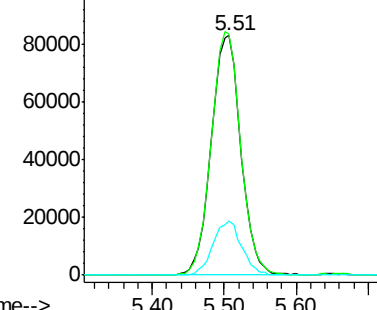
192 21.9 18.5 27.7

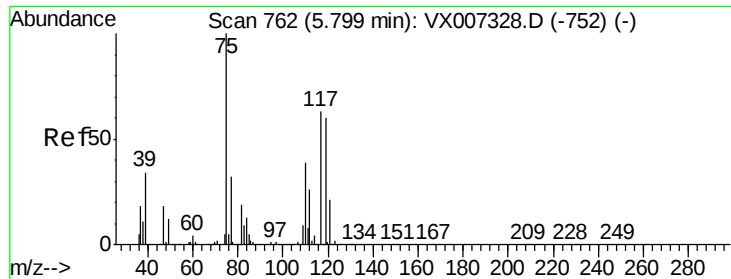


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.624 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#03

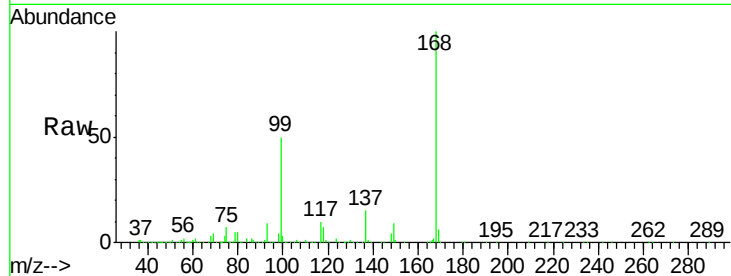
Tot Ion: 75 Resp: 31202

Ion Ratio Lower Upper

75 100

110 11.5 20.0 59.9#

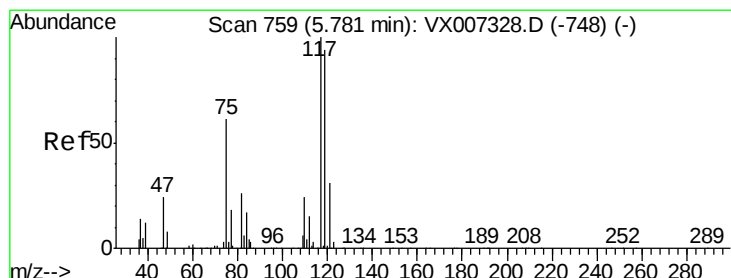
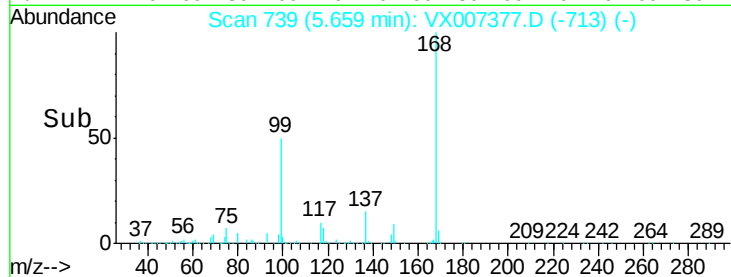
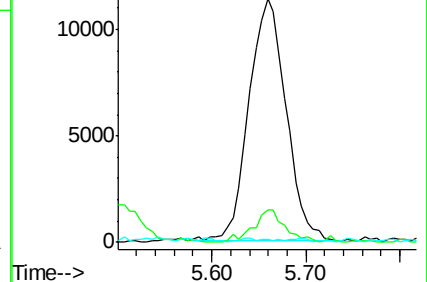
77 0.0 24.7 37.1#



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: 6.797 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

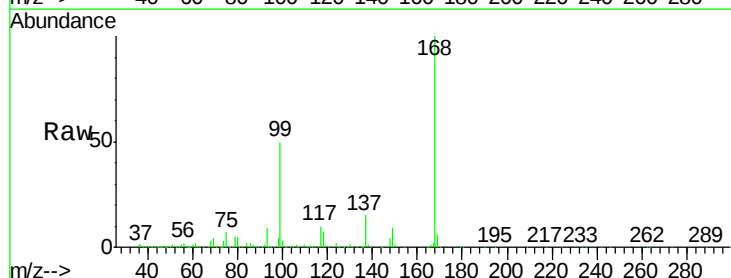
Tgt Ion: 117 Resp: 44500

Ion Ratio Lower Upper

117 100

119 5.8 75.3 112.9#

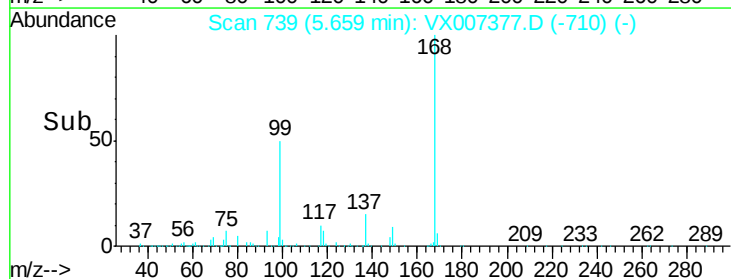
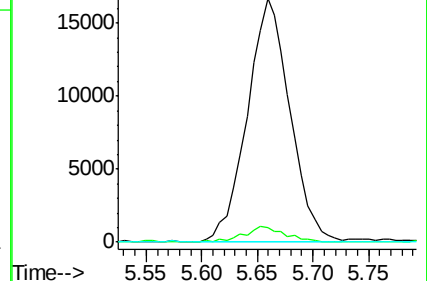
121 0.0 25.0 37.4#

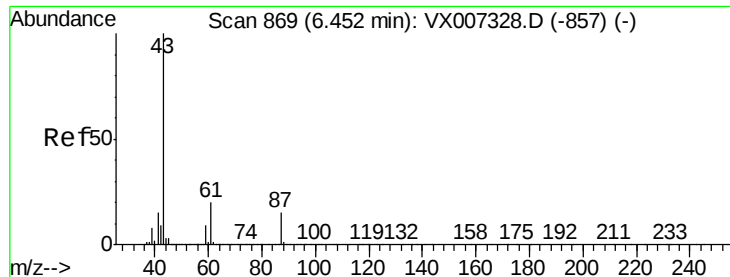


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



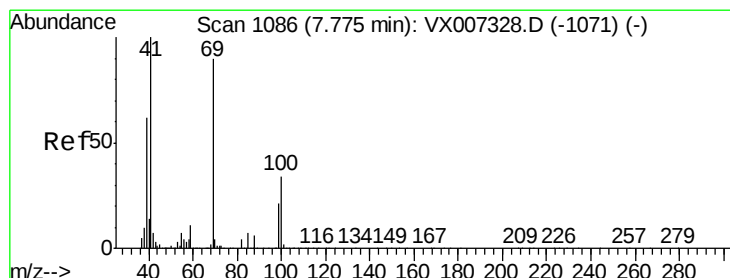
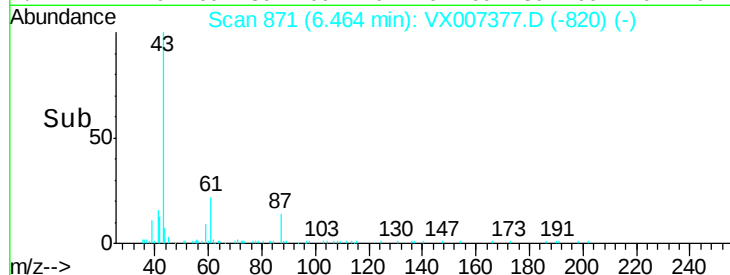
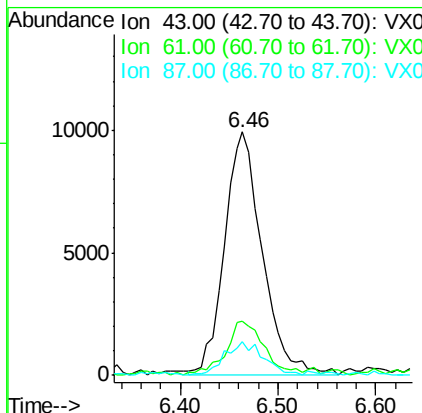
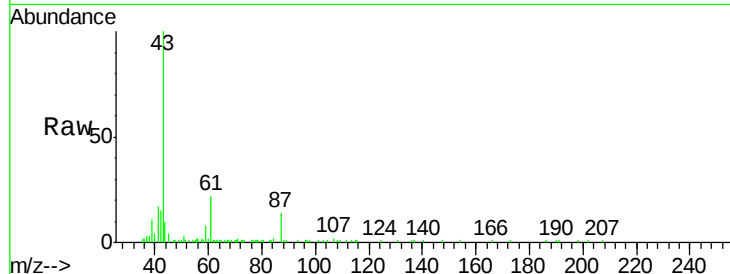


#43

Isopropyl Acetate
 Concen: 2.526 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX007377.D
 Acq: 05 Feb 2019 15:25

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116824ZHE#03

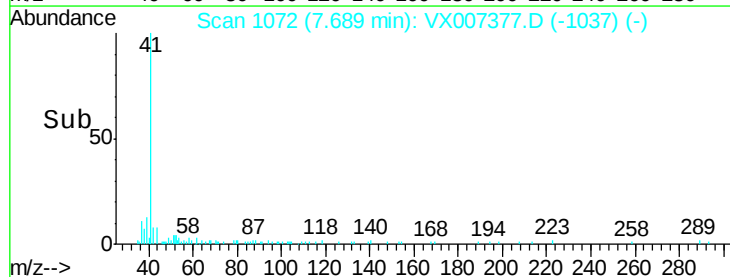
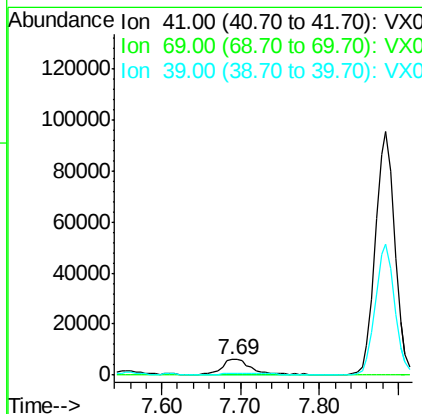
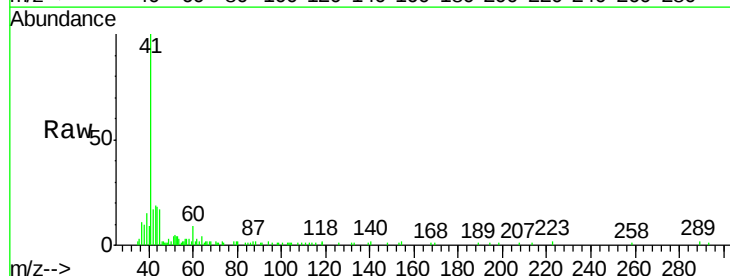
Tot Ion	43	Resp	26592
Ion Ratio	Lower	Upper	
43	100		
61	22.8	16.1	24.1
87	14.0	11.5	17.3

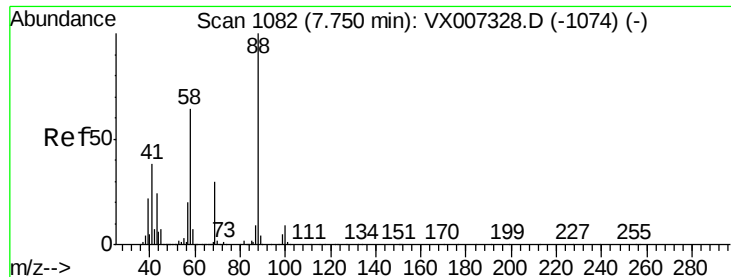


#48

Methyl methacrylate
 Concen: 3.014 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX007377.D
 Acq: 05 Feb 2019 15:25

Tgt Ion	41	Resp	15872
Ion Ratio	Lower	Upper	
41	100		
69	0.5	70.2	105.4#
39	16.7	47.4	71.0#





#49

1,4-Dioxane

Concen: 9.010 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.02 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#03

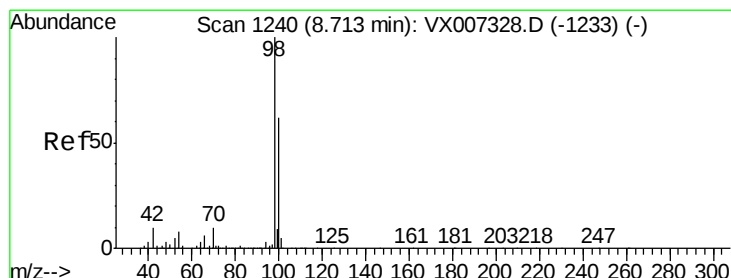
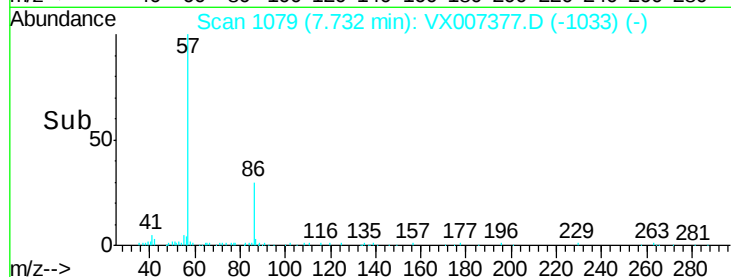
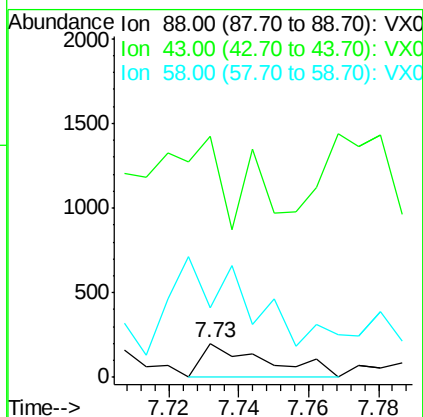
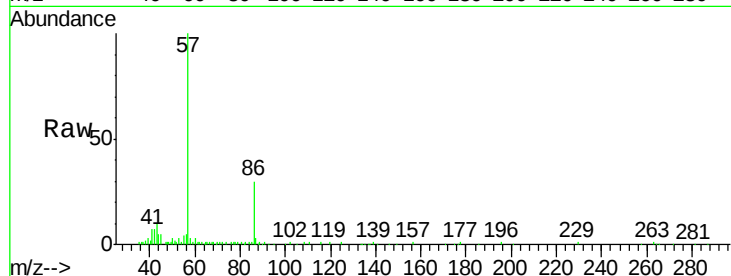
Tot Ion: 88 Resp: 257

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

58 412.5 53.0 79.4#



#50

Toluene-d8

Concen: 51.206 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007377.D

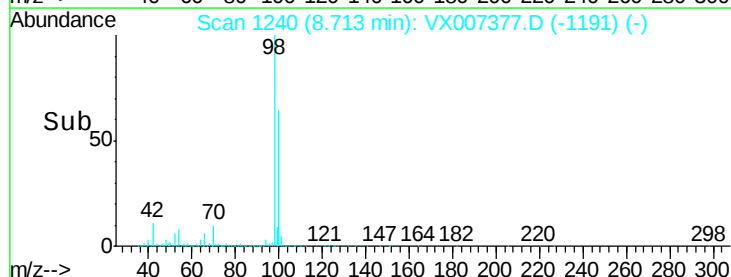
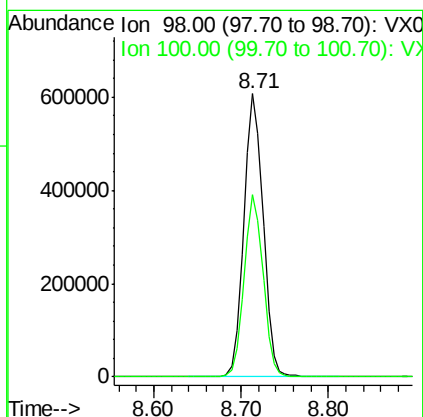
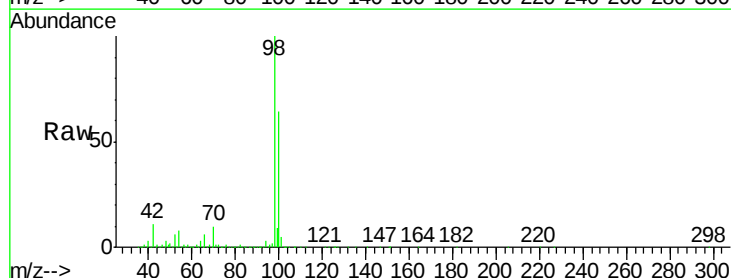
Acq: 05 Feb 2019 15:25

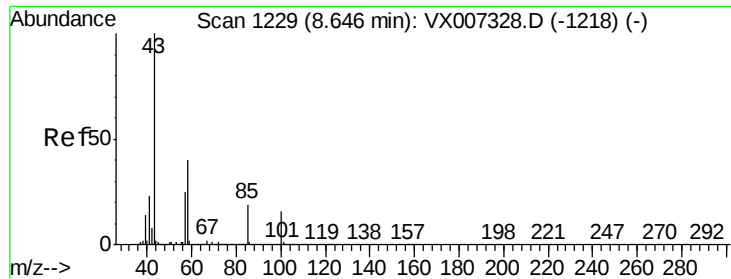
Tgt Ion: 98 Resp: 929694

Ion Ratio Lower Upper

98 100

100 63.5 51.6 77.4

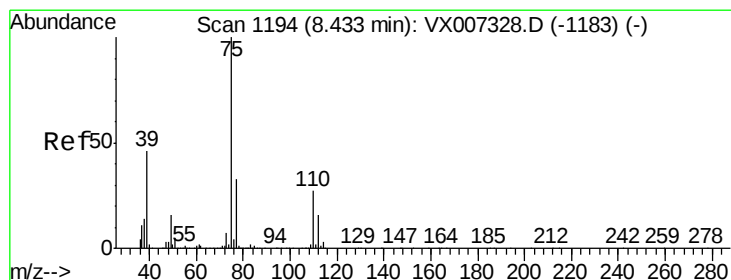
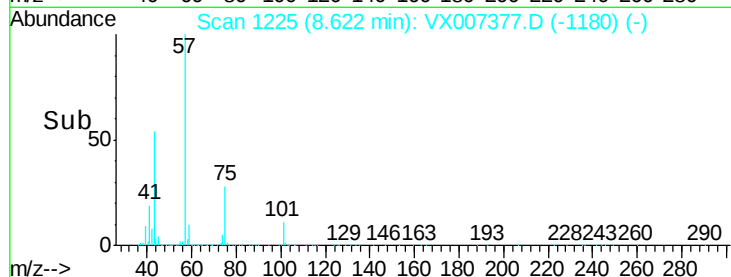
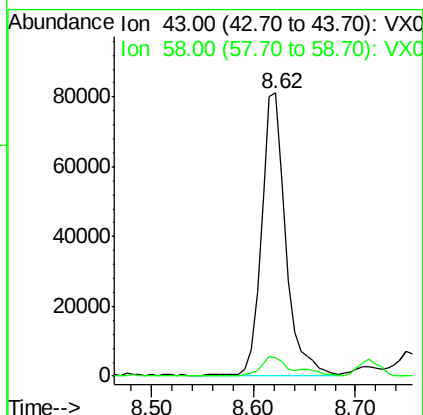
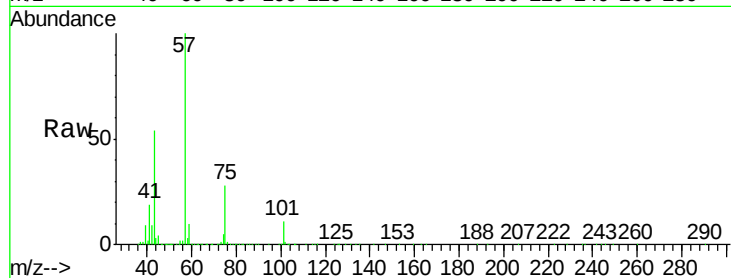




#51
4-Methyl-2-Pentanone
Concen: 19.275 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VX007377.D
Acq: 05 Feb 2019 15:25

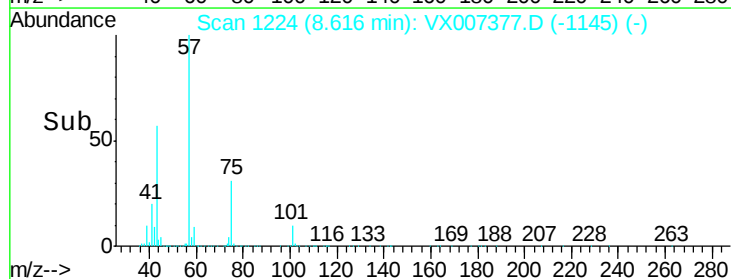
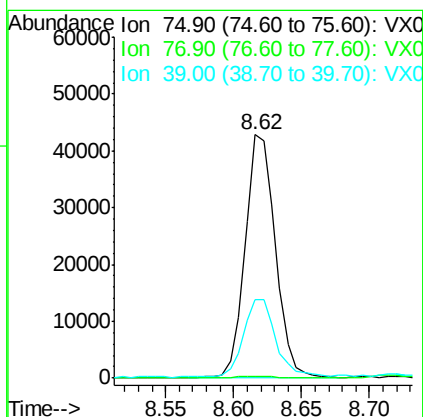
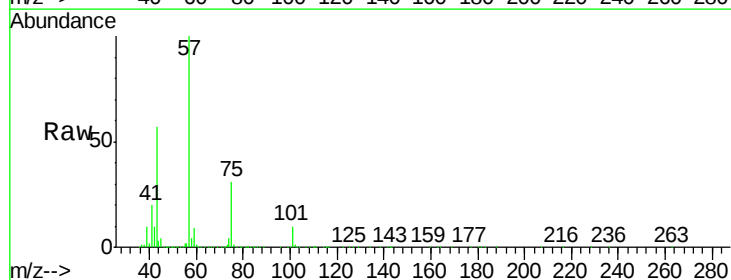
Instrument :
MSVOA_X
ClientSampleId :
PB116824ZHE#03

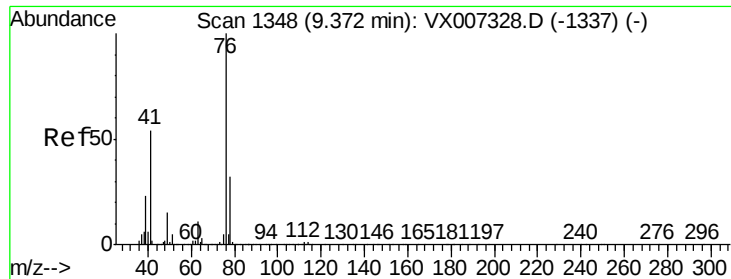
Tot Ion: 43 Resp: 133601
Ion Ratio Lower Upper
43 100
58 6.7 31.2 46.8#



#54
cis-1,3-Dichloropropene
Concen: 9.233 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. 0.18 min
Lab File: VX007377.D
Acq: 05 Feb 2019 15:25

Tgt Ion: 75 Resp: 66909
Ion Ratio Lower Upper
75 100
77 0.4 26.2 39.4#
39 31.9 37.1 55.7#





#57

1,3-Dichloropropane

Concen: 1.757 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

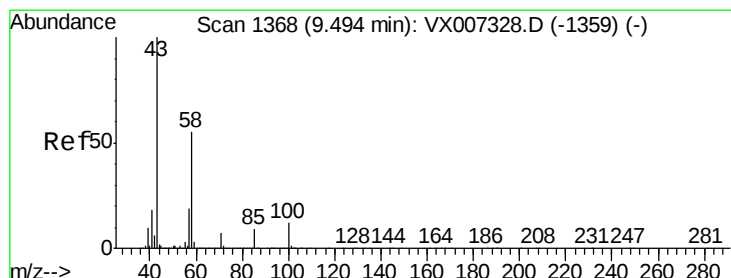
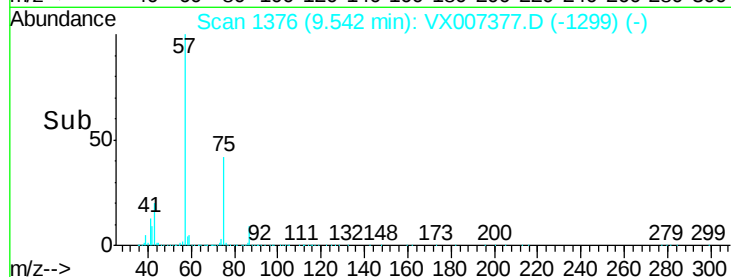
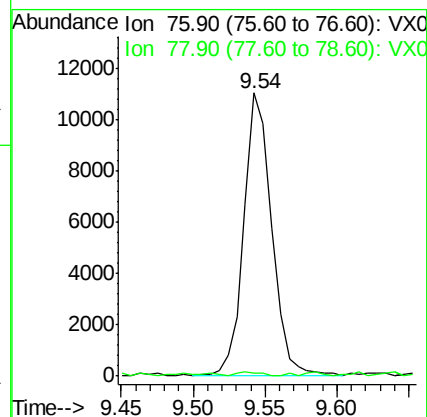
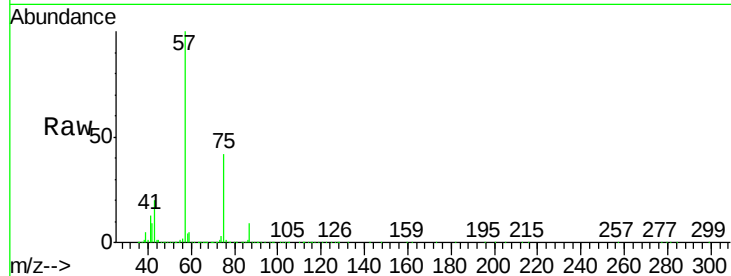
PB116824ZHE#03

Tot Ion: 76 Resp: 14940

Ion Ratio Lower Upper

76 100

78 1.4 25.8 38.8#



#59

2-Hexanone

Concen: 3.880 ug/l

RT: 9.44 min Scan# 1360

Delta R.T. -0.05 min

Lab File: VX007377.D

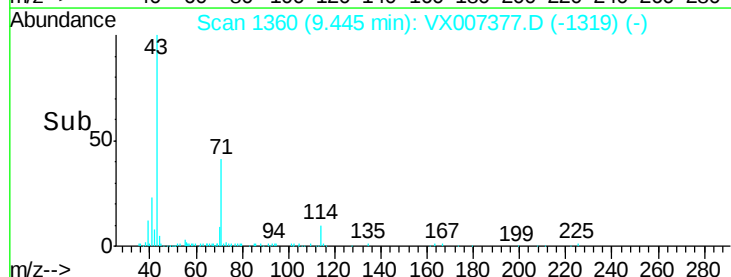
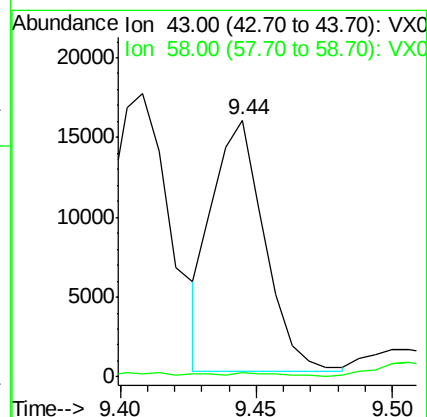
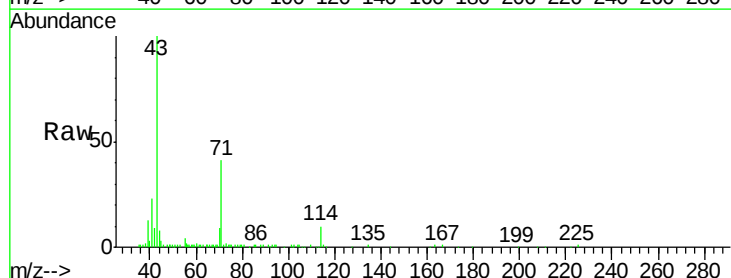
Acq: 05 Feb 2019 15:25

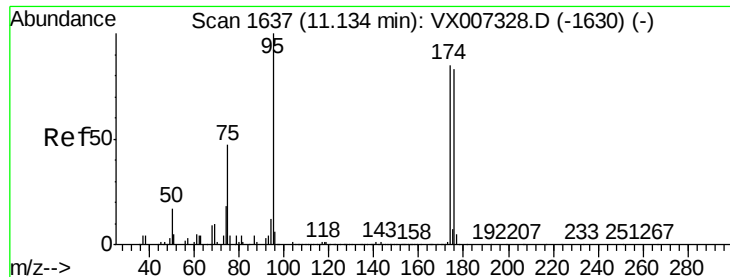
Tgt Ion: 43 Resp: 20925

Ion Ratio Lower Upper

43 100

58 0.0 27.1 81.3#





#62

4-Bromofluorobenzene

Concen: 48.507 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#03

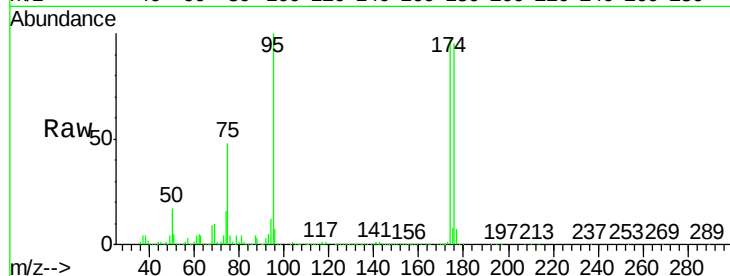
Tot Ion: 95 Resp: 321541

Ion Ratio Lower Upper

95 100

174 93.2 0.0 189.2

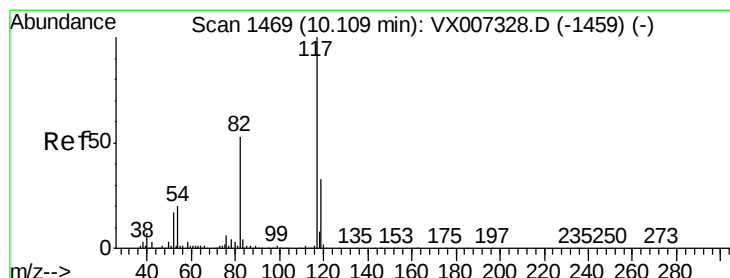
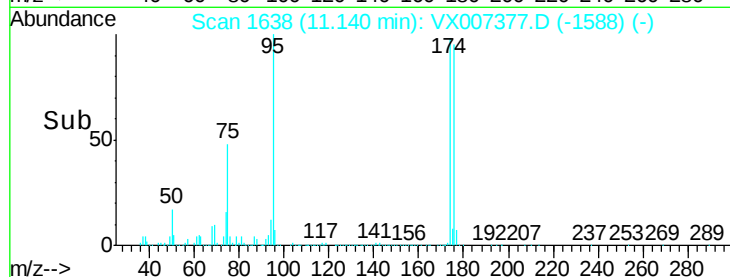
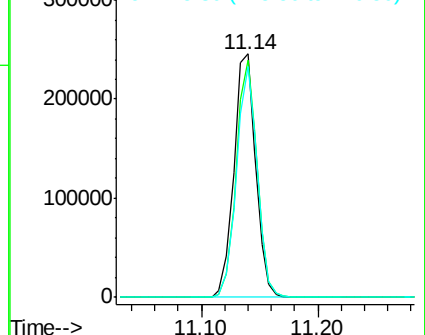
176 90.2 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX007328.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007328.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007328.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

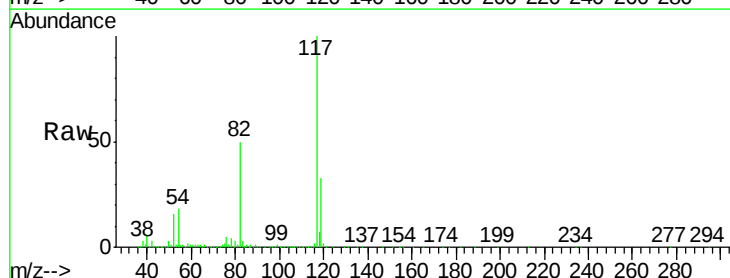
Tgt Ion: 117 Resp: 710639

Ion Ratio Lower Upper

117 100

82 49.7 42.1 63.1

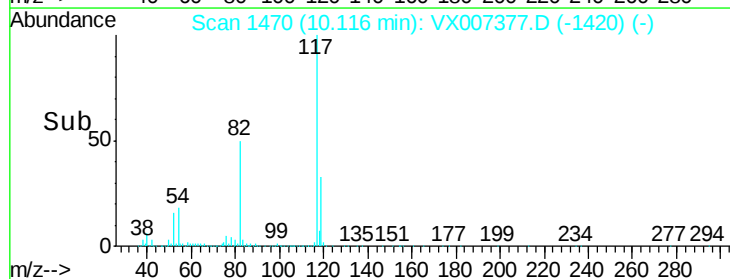
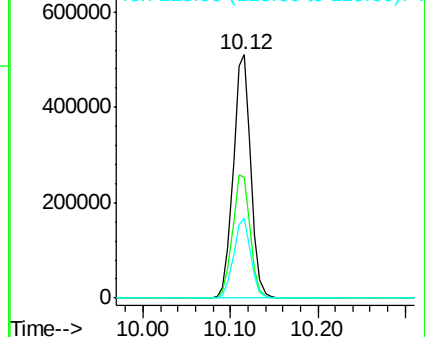
119 32.9 26.5 39.7

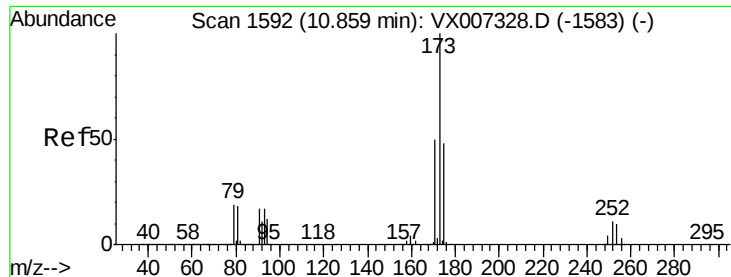


Abundance Ion 116.90 (116.60 to 117.60): VX007328.D (-1459) (-)

Ion 82.00 (81.70 to 82.70): VX007328.D (-1459) (-)

Ion 118.90 (118.60 to 119.60): VX007328.D (-1459) (-)





#71

Bromoform

Concen: 4.056 ug/l

RT: 11.05 min Scan# 1624

Delta R.T. 0.20 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#03

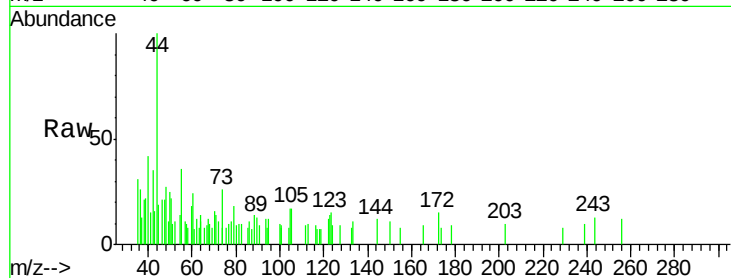
Tot Ion:173 Resp: 130

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

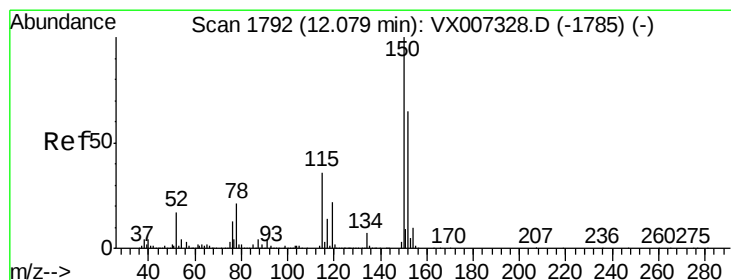
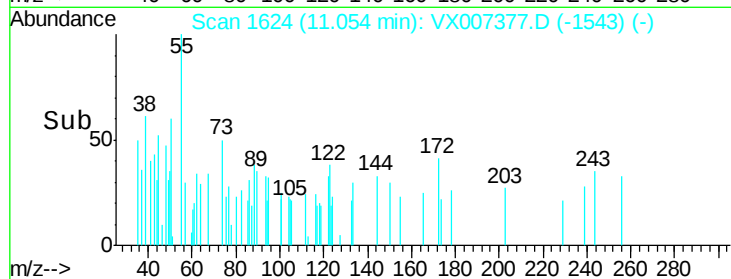
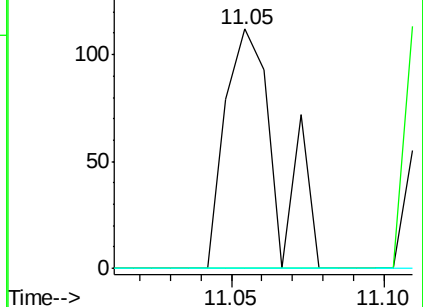
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX007377.D

Acq: 05 Feb 2019 15:25

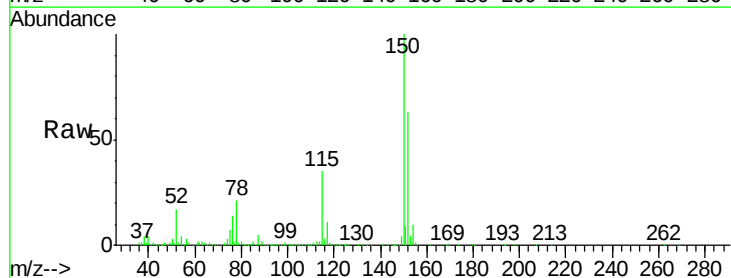
Tgt Ion:152 Resp: 352183

Ion Ratio Lower Upper

152 100

115 54.8 38.0 114.0

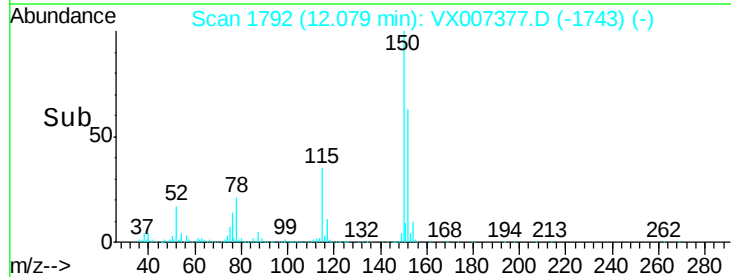
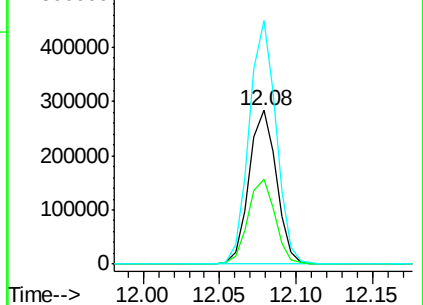
150 156.7 0.0 346.4

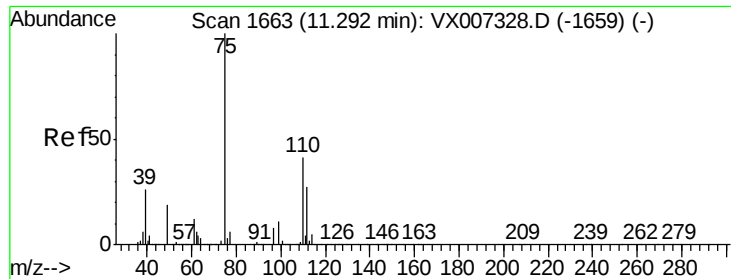


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

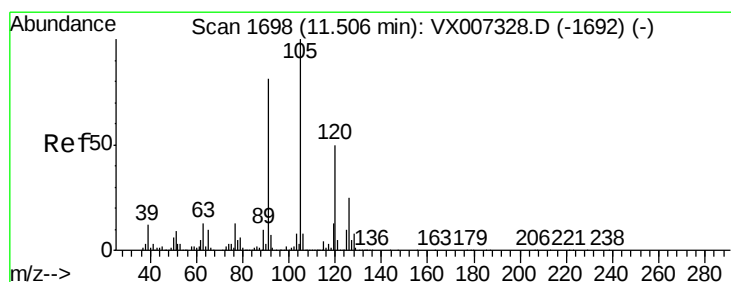
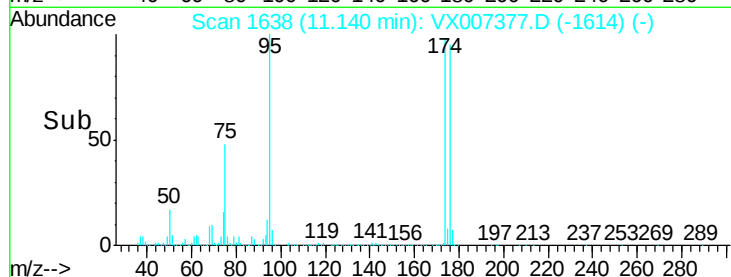
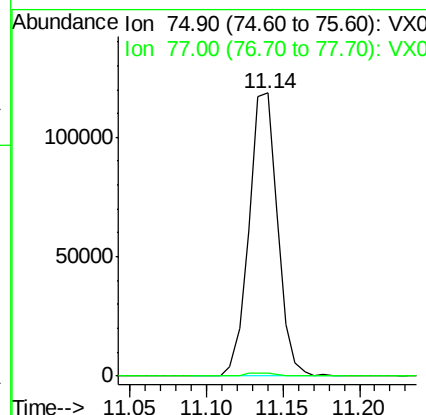
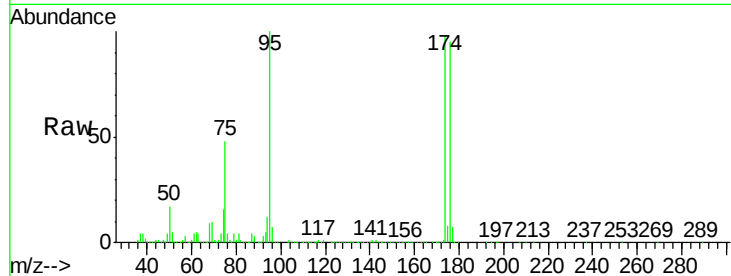




#76
 1,2,3-Trichloropropane
 Concen: 22.304 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.15 min
 Lab File: VX007377.D
 Acq: 05 Feb 2019 15:25

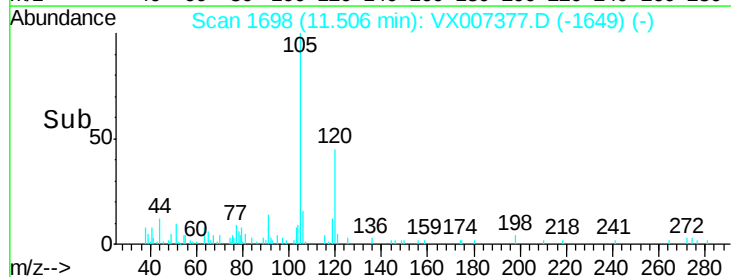
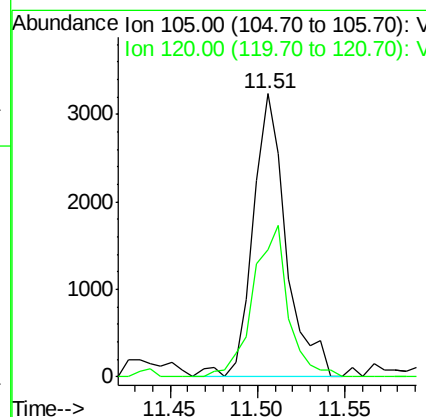
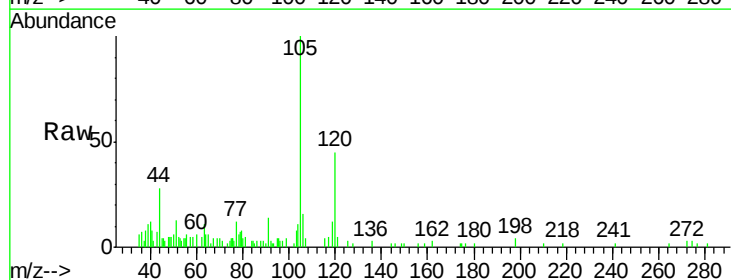
Instrument :
 MSVOA_X
 ClientSampleId :
 PB116824ZHE#03

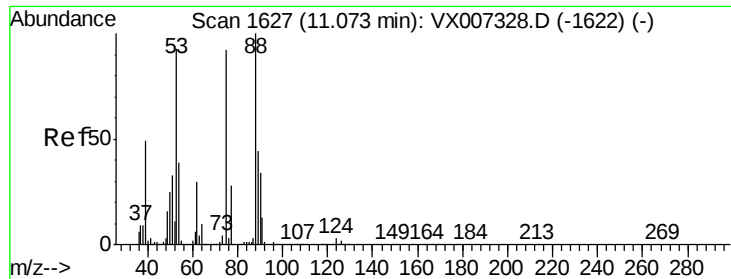
Tot Ion: 75 Resp: 152794
 Ion Ratio Lower Upper
 75 100
 77 1.2 23.0 69.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.219 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX007377.D
 Acq: 05 Feb 2019 15:25

Tgt Ion: 105 Resp: 4284
 Ion Ratio Lower Upper
 105 100
 120 56.4 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 67.339 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#03

Tot Ion: 75 Resp: 152794

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.0 41.4 62.0#

