

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010920\
 Data File : VX014516.D
 Acq On : 09 Jan 2020 22:49
 Operator : JC/SP
 Sample : PB125964ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB125964ZHE#09

Quant Time: Jan 10 06:53:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	523943	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	806920	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	730339	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	334448	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	283869	48.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.06%	
35) Dibromofluoromethane	5.49	113	238019	48.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.46%	
50) Toluene-d8	8.71	98	964983	50.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.82%	
62) 4-Bromofluorobenzene	11.13	95	328717	47.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.48%	

Target Compounds

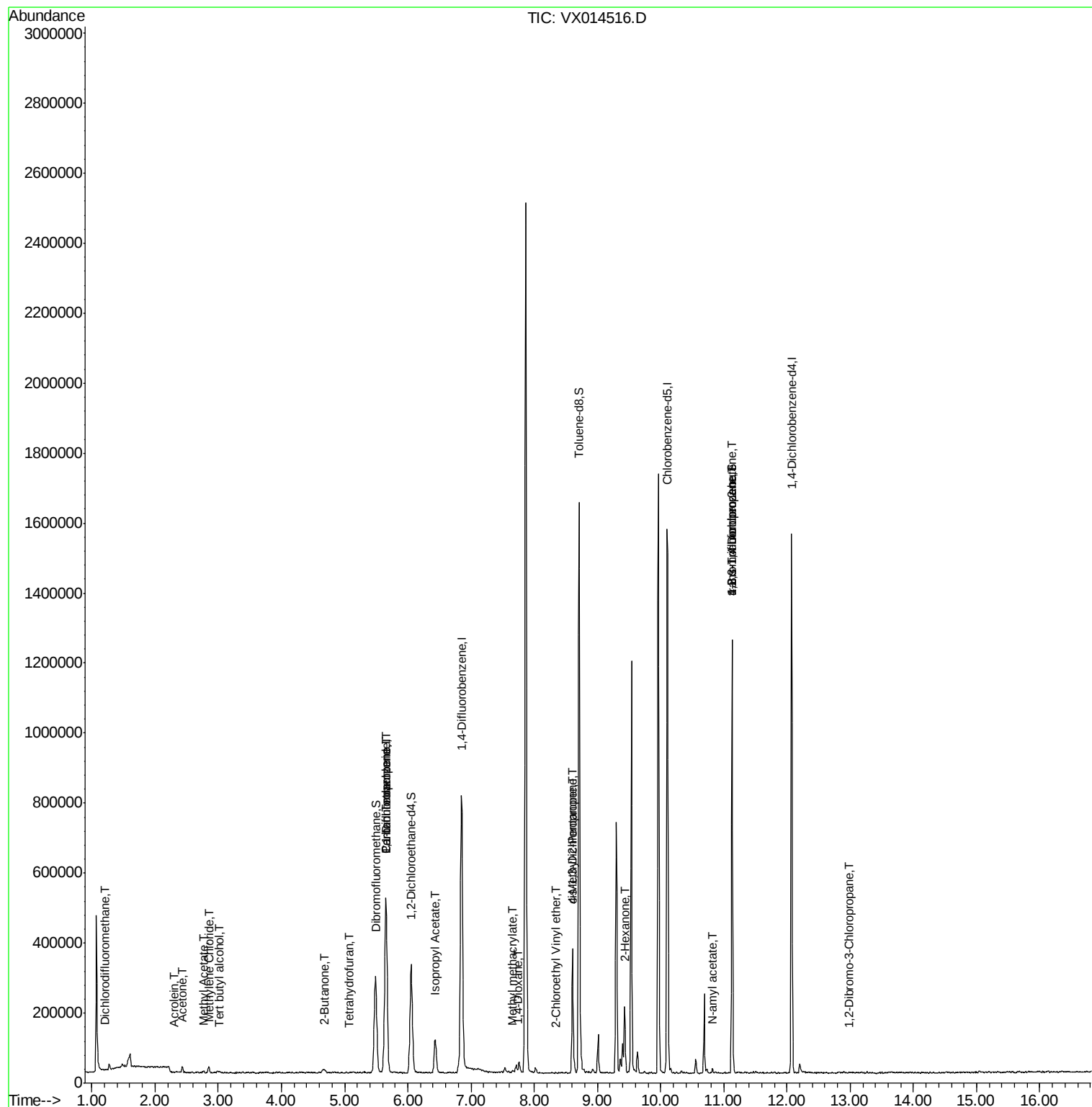
					Qvalue	
2) Dichlorodifluoromethane	1.20	85	519	0.332	ug/l	74
6) Chloroethane	1.73	64	898	Below Cal	#	43
11) Tert butyl alcohol	3.01	59	5336	4.369	ug/l	95
13) Acrolein	2.29	56	487	0.498	ug/l	88
16) Acetone	2.43	43	19685	2.577	ug/l #	84
18) Methyl Acetate	2.76	43	6436	0.766	ug/l	92
20) Methylene Chloride	2.85	84	9311	1.582	ug/l	93
25) 2-Butanone	4.67	43	9581	2.193	ug/l	96
29) Tetrahydrofuran	5.08	42	950	0.368	ug/l #	55
36) 1,1-Dichloropropene	5.66	75	35350	4.658	ug/l #	51
38) Carbon Tetrachloride	5.65	117	45363	6.496	ug/l #	19
43) Isopropyl Acetate	6.43	43	129568	9.731	ug/l	99
48) Methyl methacrylate	7.67	41	6679	1.047	ug/l #	17
49) 1,4-Dioxane	7.74	88	94	0.696	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	125124	15.421	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	59929	6.534	ug/l #	56
58) 2-Chloroethyl Vinyl ether	8.34	63	849	0.281	ug/l	96
59) 2-Hexanone	9.43	43	150793	23.488	ug/l #	23
74) N-amyl acetate	10.82	43	6307	0.609	ug/l #	49
76) 1,2,3-Trichloropropane	11.13	75	159311	23.022	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	159311	60.867	ug/l #	12
88) 1,4-Dichlorobenzene	12.09	146	683	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	12.98	75	605	0.357	ug/l #	6
93) 1,2,4-Trichlorobenzene	13.63	180	407	Below Cal	#	20
96) 1,2,3-Trichlorobenzene	14.02	180	547	Below Cal	#	57

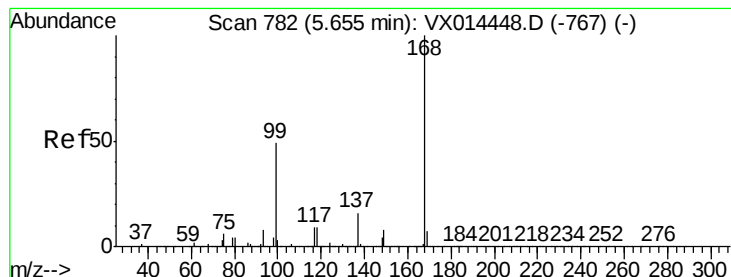
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010920\
Data File : VX014516.D
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Quant Time: Jan 10 06:53:27 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

Instrument :

MSVOA_X

ClientSampleId :

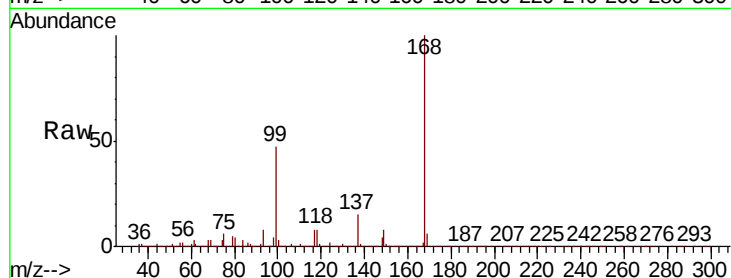
PB125964ZHE#09

Tot Ion:168 Resp: 523943

Ion Ratio Lower Upper

168 100

99 46.8 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

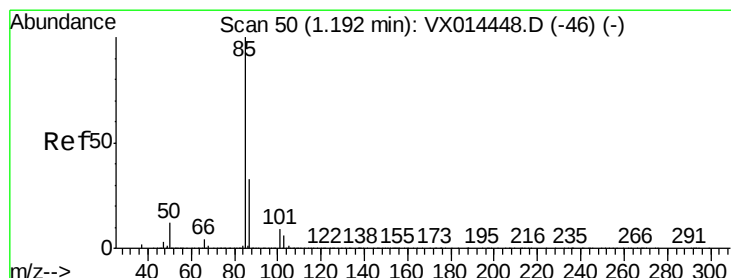
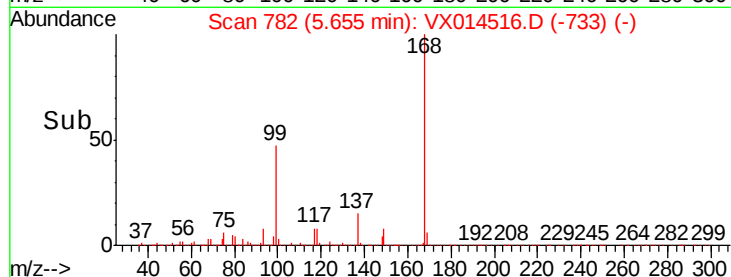
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.332 ug/l

RT: 1.20 min Scan# 52

Delta R.T. 0.01 min

Lab File: VX014516.D

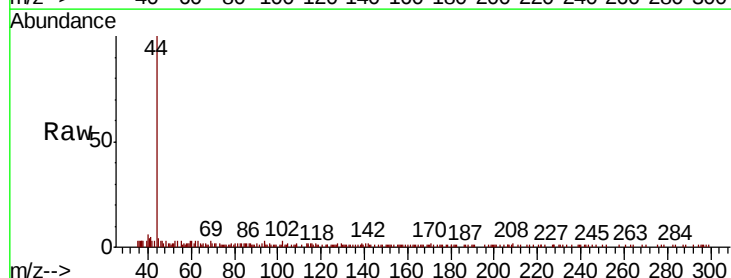
Acq: 09 Jan 2020 22:49

Tgt Ion: 85 Resp: 519

Ion Ratio Lower Upper

85 100

87 18.2 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

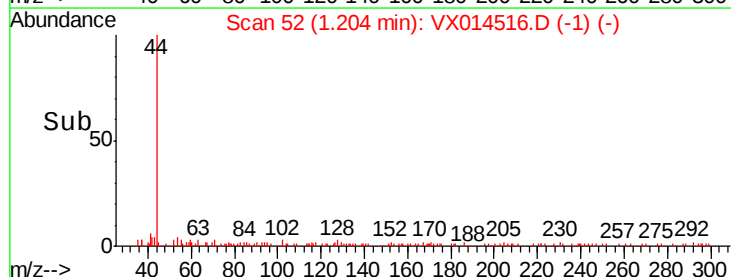
200

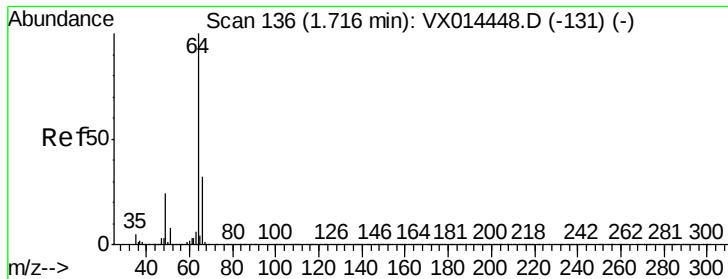
100

0

Time-->

1.16 1.18 1.20 1.22 1.24





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 138

Delta R.T. 0.01 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

Instrument :

MSVOA_X

ClientSampleId :

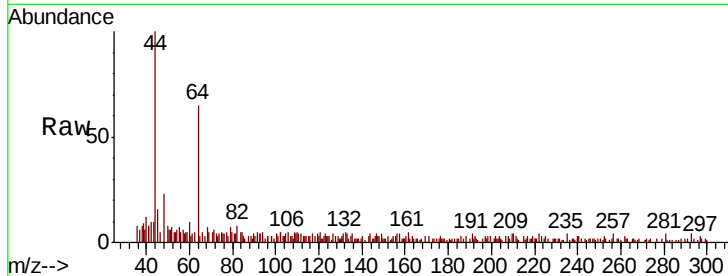
PB125964ZHE#09

Tot Ion: 64 Resp: 898

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

3000

2500

2000

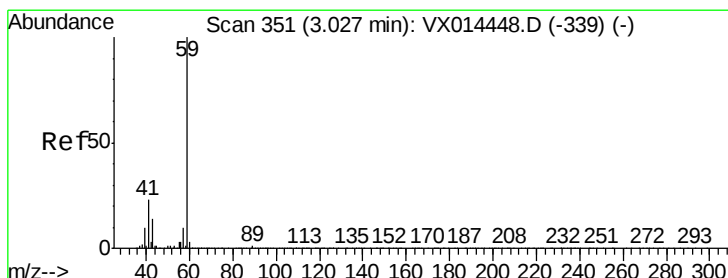
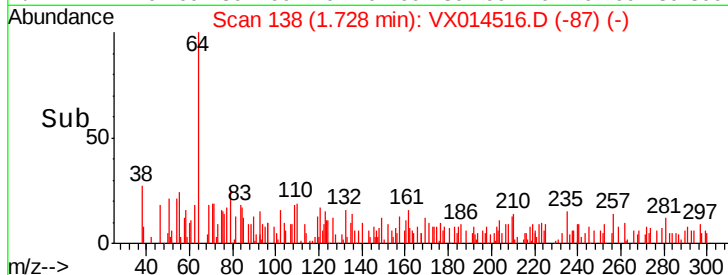
1500

1000

500

0

Time-->



#11

Tert butyl alcohol

Concen: 4.369 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.01 min

Lab File: VX014516.D

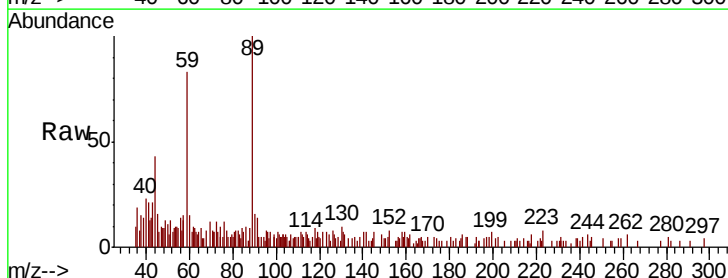
Acq: 09 Jan 2020 22:49

Tgt Ion: 59 Resp: 5336

Ion Ratio Lower Upper

59 100

57 8.9 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2000

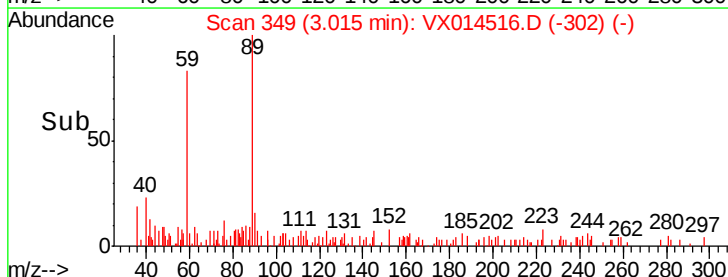
1500

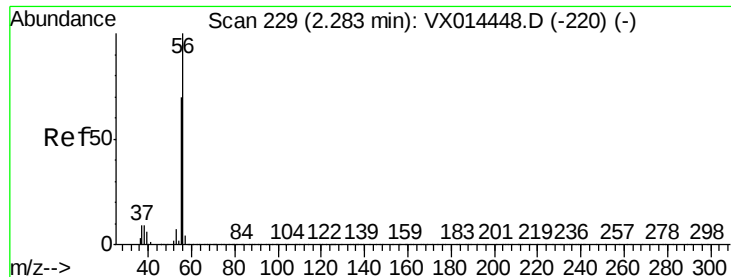
1000

500

0

Time-->





#13

Acrolein

Concen: 0.498 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

Instrument :

MSVOA_X

ClientSampleId :

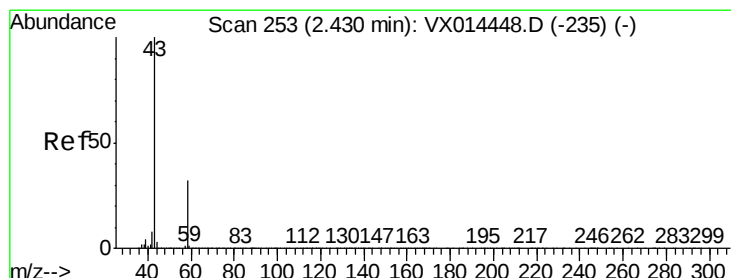
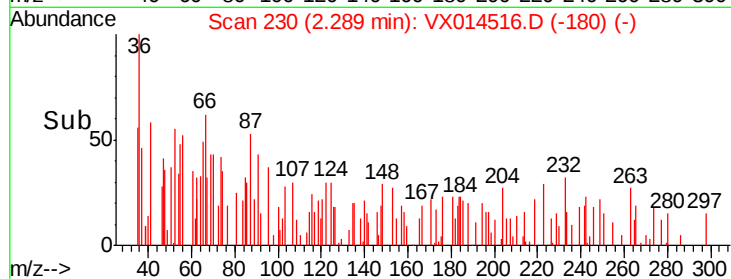
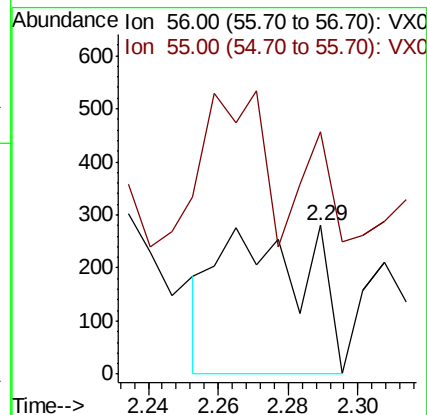
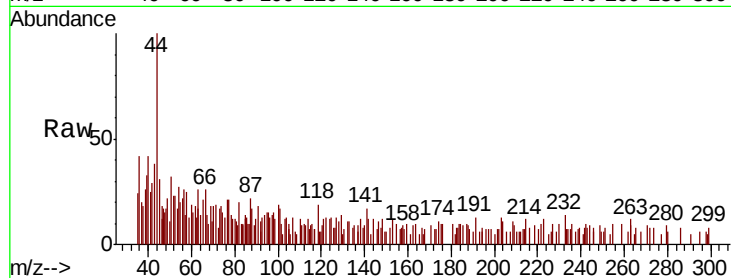
PB125964ZHE#09

Tot Ion: 56 Resp: 487

Ion Ratio Lower Upper

56 100

55 78.9 55.0 82.6



#16

Acetone

Concen: 2.577 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014516.D

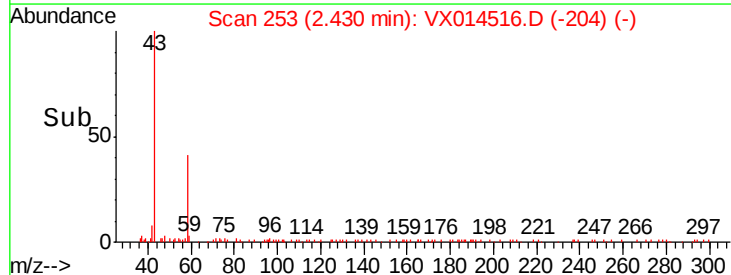
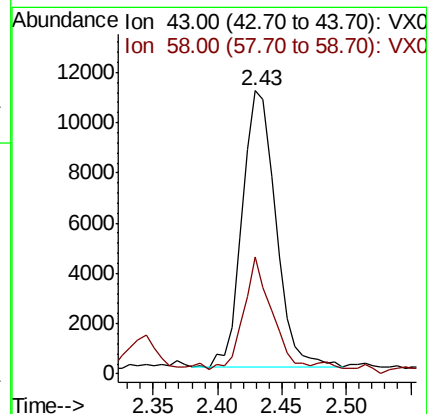
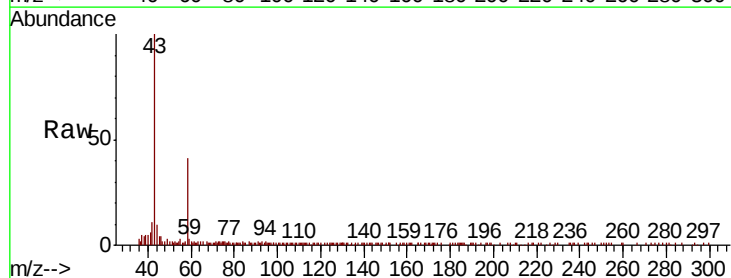
Acq: 09 Jan 2020 22:49

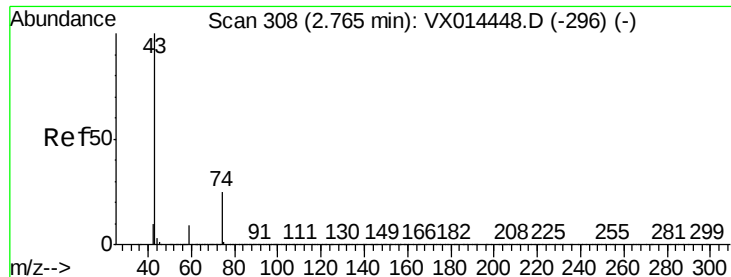
Tgt Ion: 43 Resp: 19685

Ion Ratio Lower Upper

43 100

58 40.6 25.4 38.0#

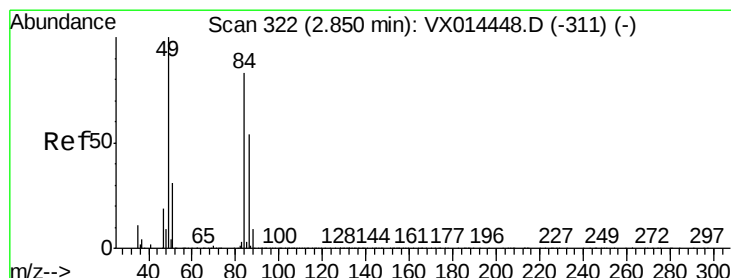
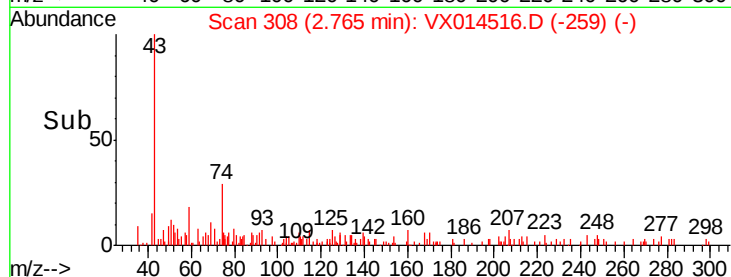
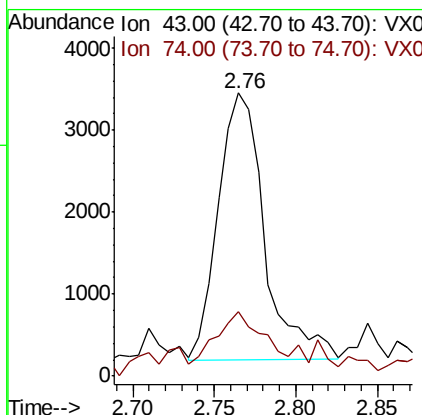
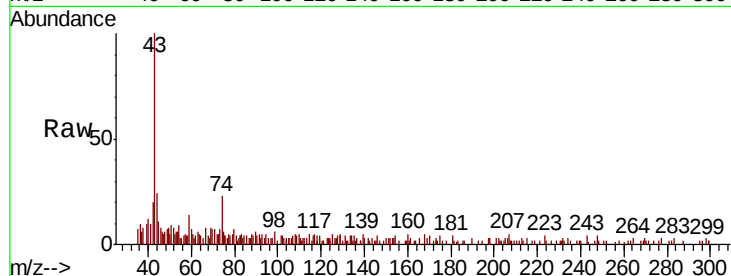




#18
Methyl Acetate
Concen: 0.766 ug/l
RT: 2.76 min Scan# 308
Delta R.T. -0.00 min
Lab File: VX014516.D
Acq: 09 Jan 2020 22:49

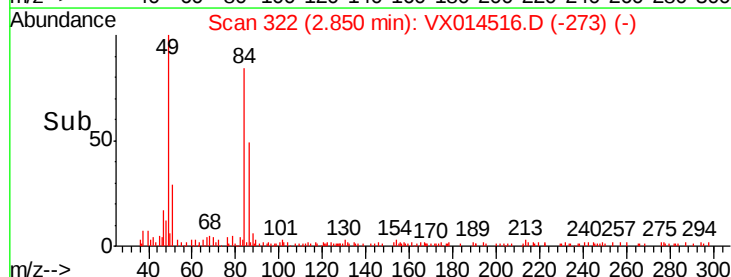
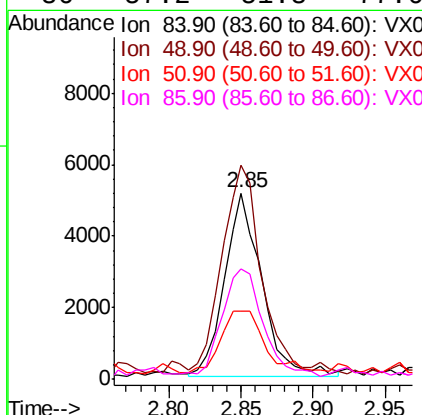
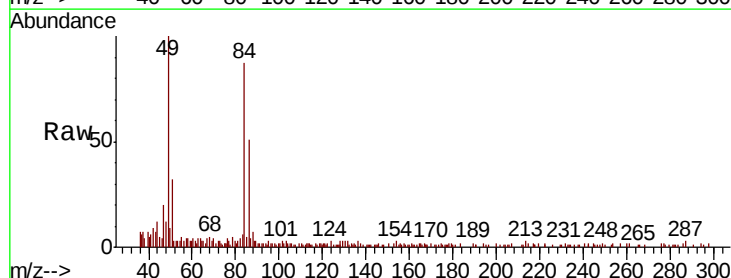
Instrument :
MSVOA_X
ClientSampleId :
PB125964ZHE#09

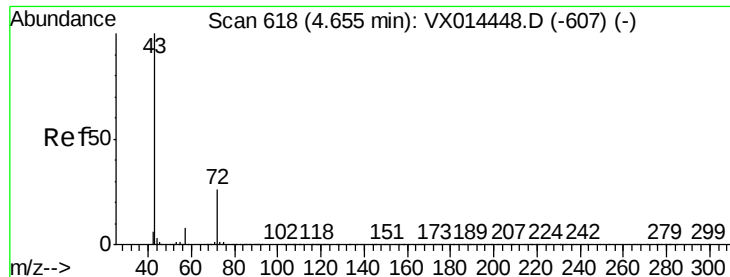
Tot Ion: 43 Resp: 6436
Ion Ratio Lower Upper
43 100
74 20.4 19.4 29.2



#20
Methylene Chloride
Concen: 1.582 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX014516.D
Acq: 09 Jan 2020 22:49

Tgt Ion: 84 Resp: 9311
Ion Ratio Lower Upper
84 100
49 114.0 95.8 143.8
51 34.1 30.2 45.4
86 57.2 51.8 77.6





#25

2-Butanone

Concen: 2.193 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

Instrument :

MSVOA_X

ClientSampleId :

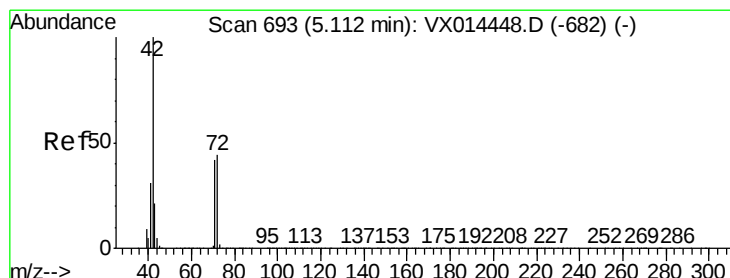
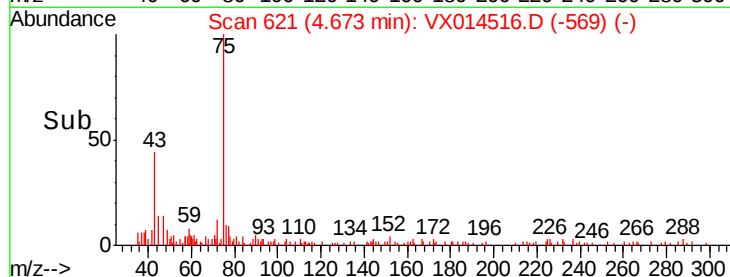
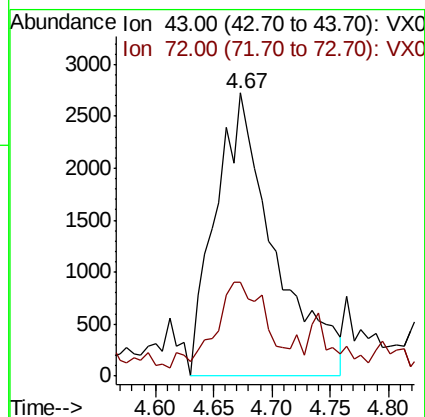
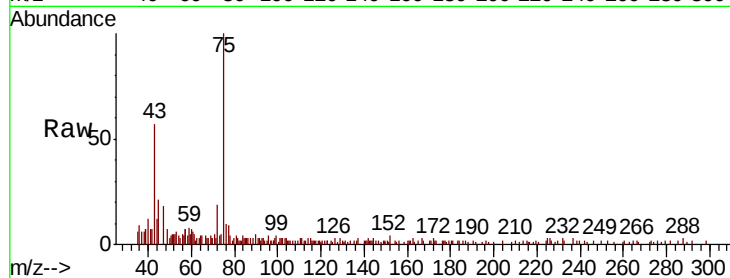
PB125964ZHE#09

Tot Ion: 43 Resp: 9581

Ion Ratio Lower Upper

43 100

72 27.8 20.6 31.0



#29

Tetrahydrofuran

Concen: 0.368 ug/l

RT: 5.08 min Scan# 687

Delta R.T. -0.04 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

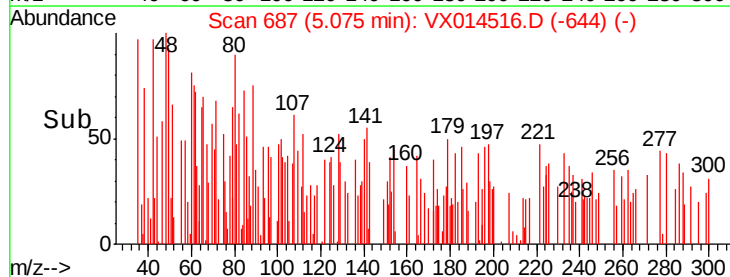
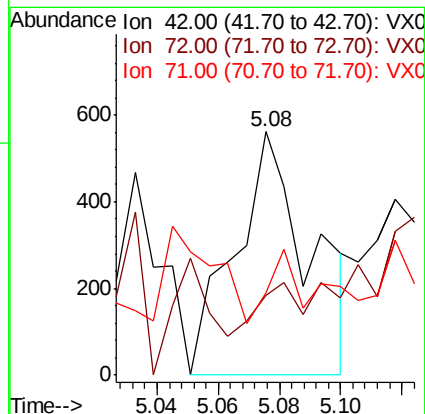
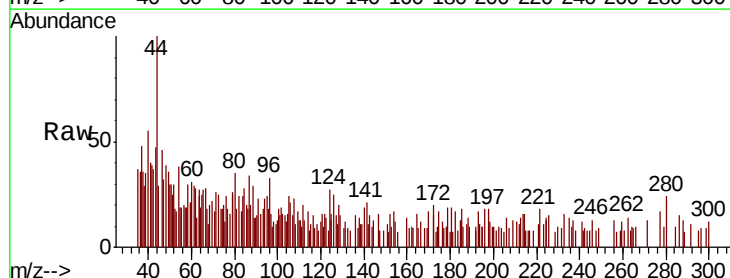
Tgt Ion: 42 Resp: 950

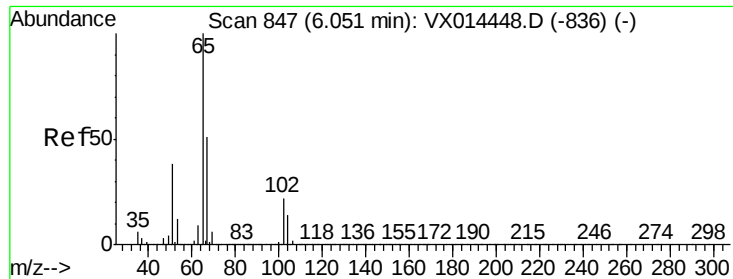
Ion Ratio Lower Upper

42 100

72 11.9 36.2 54.4#

71 17.7 34.1 51.1#





#33

1,2-Dichloroethane-d4

Concen: 48.533 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

Instrument :

MSVOA_X

ClientSampleId :

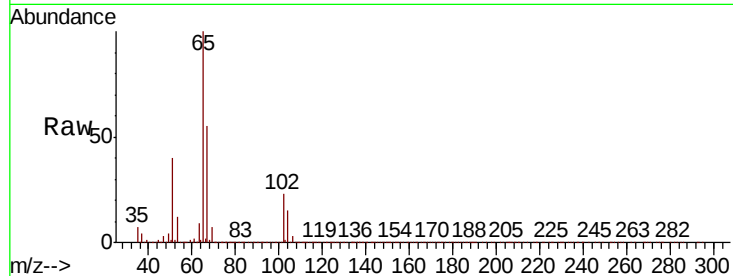
PB125964ZHE#09

Tot Ion: 65 Resp: 283869

Ion Ratio Lower Upper

65 100

67 53.6 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

120000

100000

80000

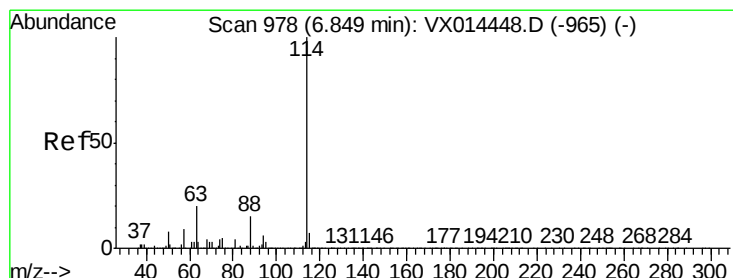
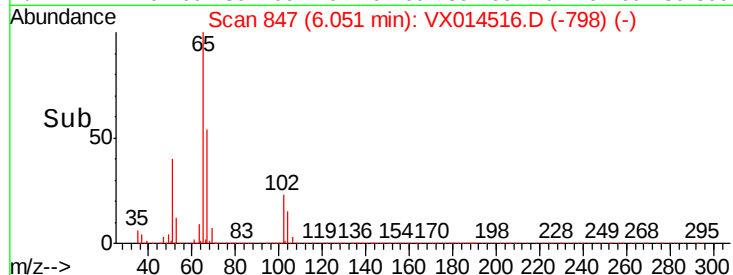
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

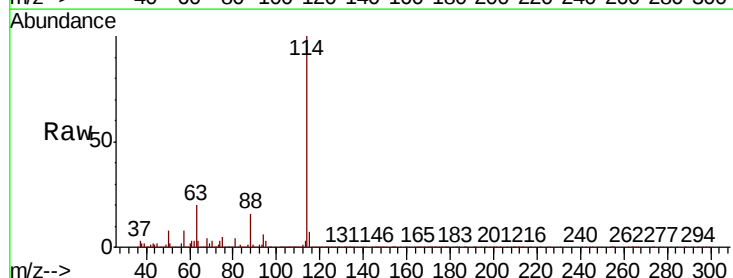
Tgt Ion: 114 Resp: 806920

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 16.0 0.0 30.8



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

6.85

400000

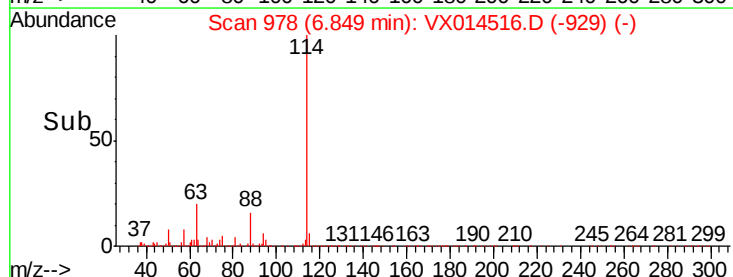
300000

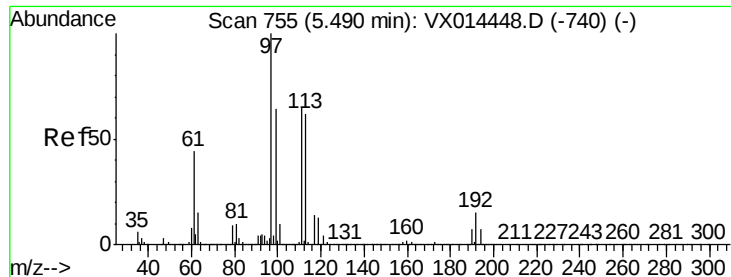
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.728 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

Instrument :

MSVOA_X

ClientSampleId :

PB125964ZHE#09

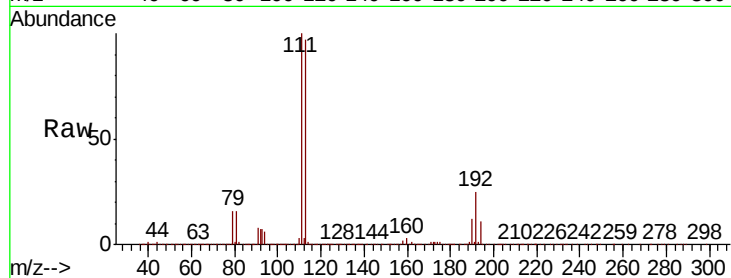
Tot Ion:113 Resp: 238019

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

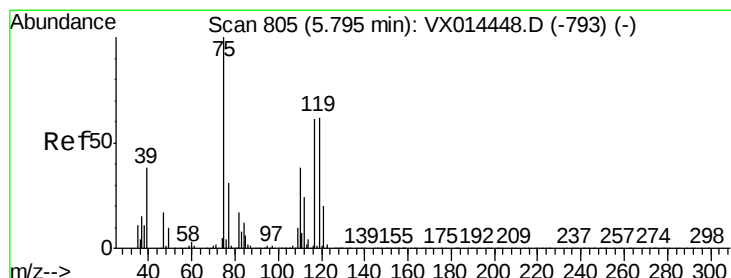
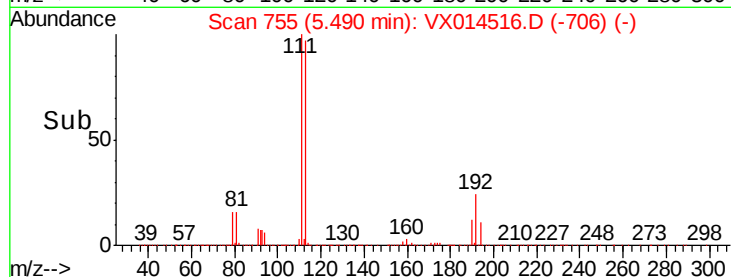
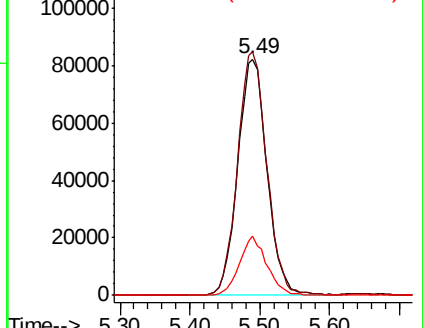
192 23.2 19.2 28.8



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: 4.658 ug/l

RT: 5.66 min Scan# 783

Delta R.T. -0.13 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

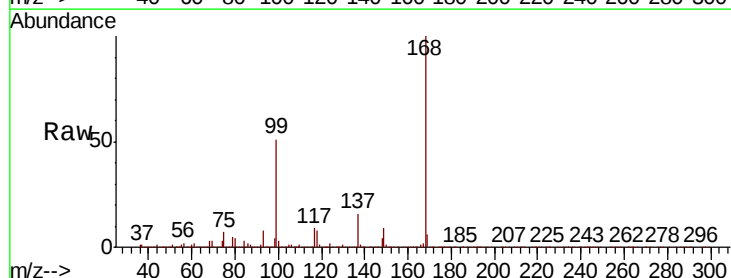
Tgt Ion: 75 Resp: 35350

Ion Ratio Lower Upper

75 100

110 10.9 18.6 55.8#

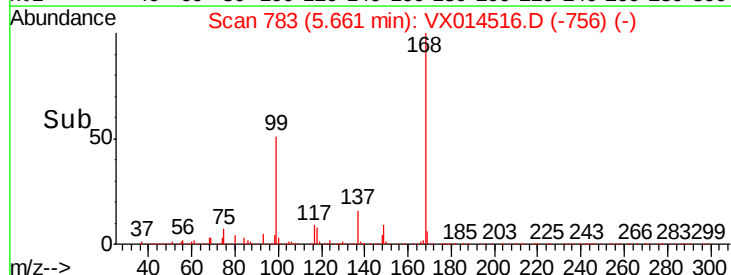
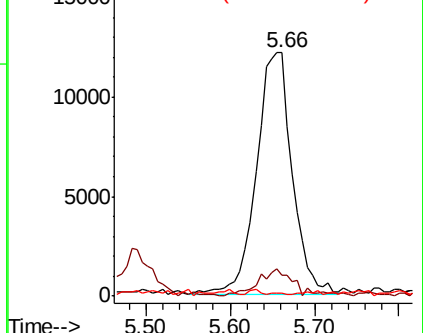
77 0.3 24.5 36.7#

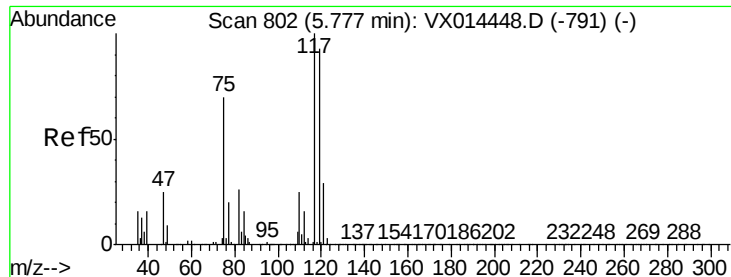


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.496 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

Instrument :

MSVOA_X

ClientSampleId :

PB125964ZHE#09

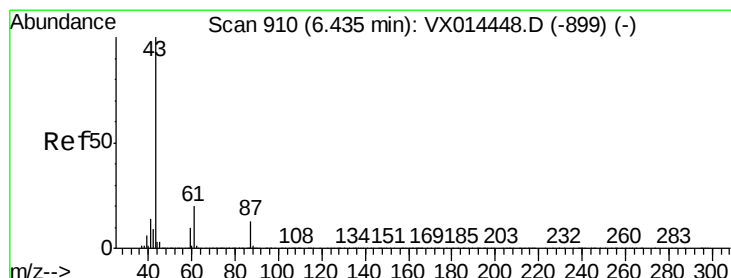
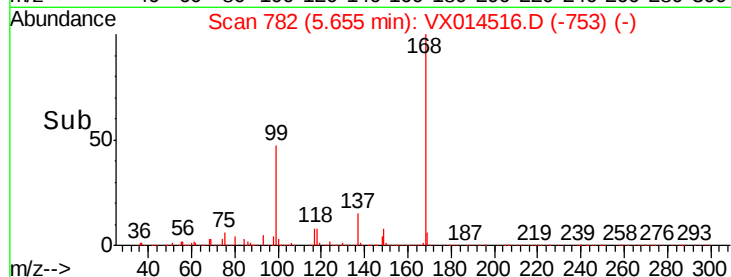
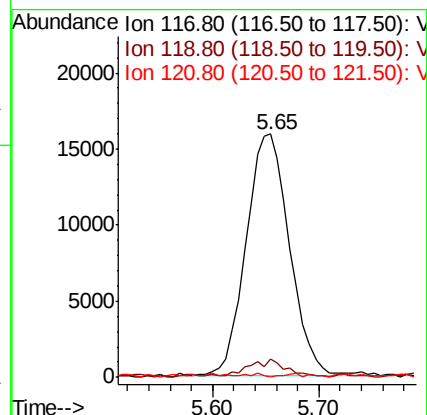
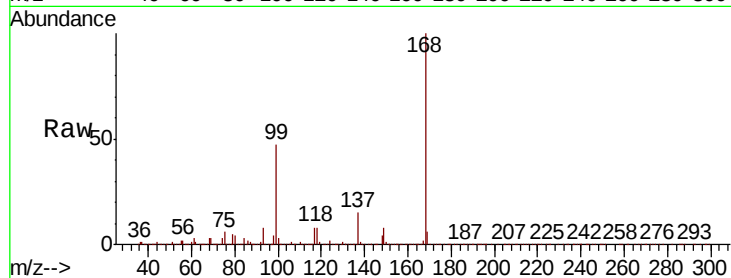
Tot Ion:117 Resp: 45363

Ion Ratio Lower Upper

117 100

119 6.4 73.8 110.8#

121 0.0 23.4 35.0#



#43

Isopropyl Acetate

Concen: 9.731 ug/l

RT: 6.43 min Scan# 909

Delta R.T. -0.01 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

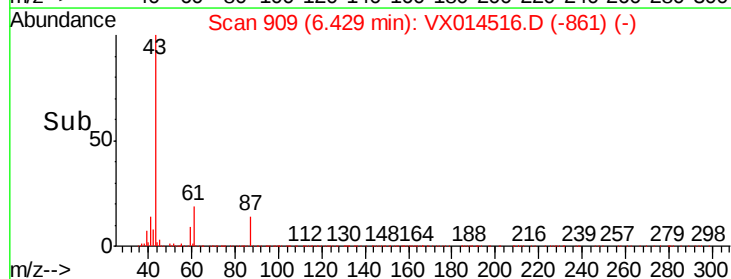
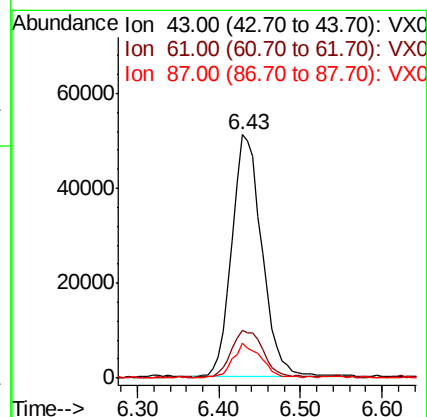
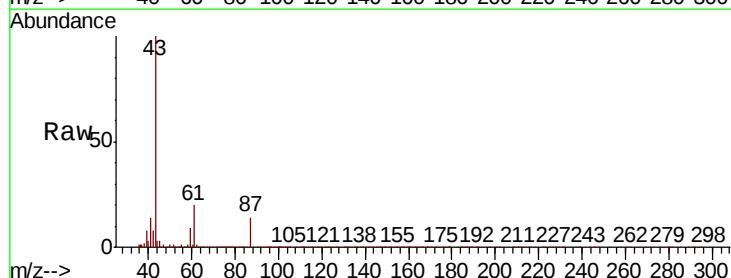
Tgt Ion: 43 Resp: 129568

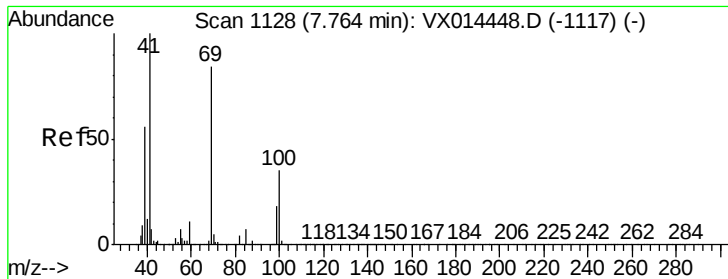
Ion Ratio Lower Upper

43 100

61 21.2 16.6 24.8

87 13.1 10.8 16.2

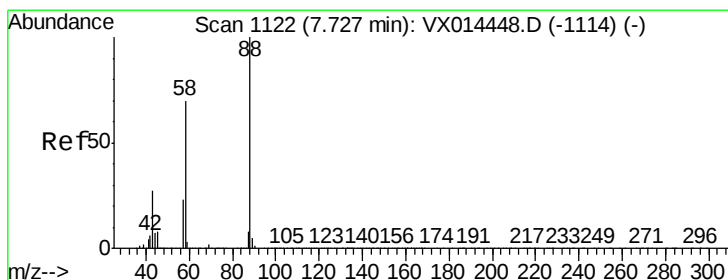
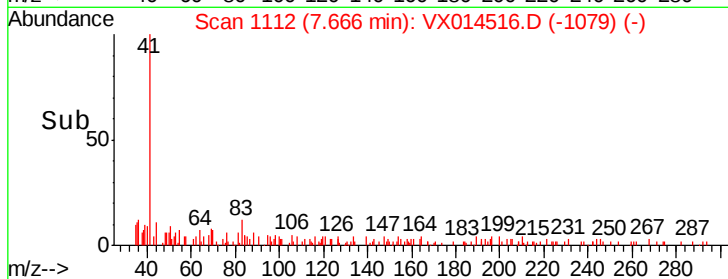
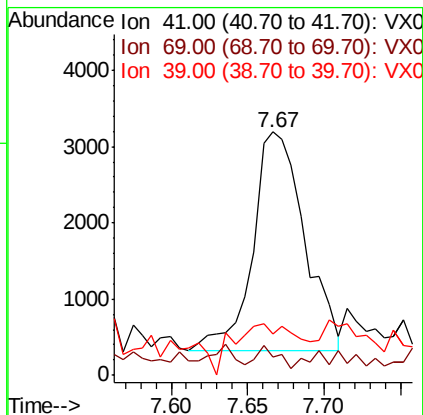
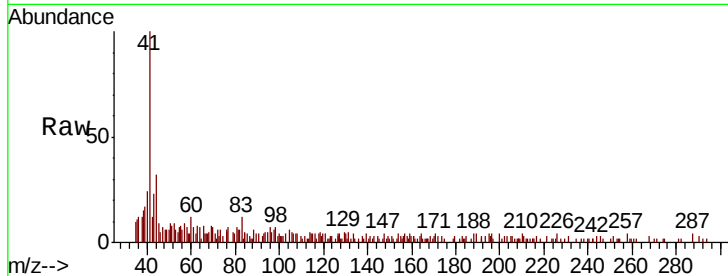




#48
Methvl methacrylate
Concen: 1.047 ug/l
RT: 7.67 min Scan# 1112
Delta R.T. -0.10 min
Lab File: VX014516.D
Acq: 09 Jan 2020 22:49

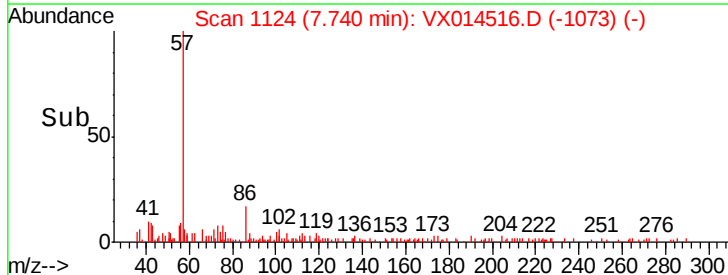
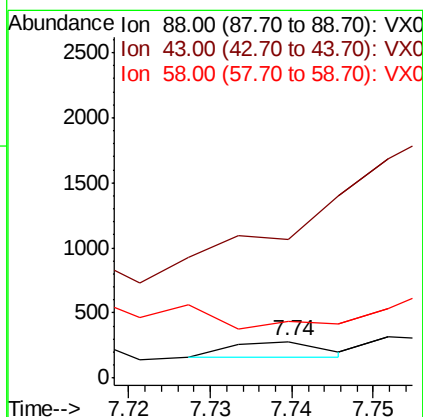
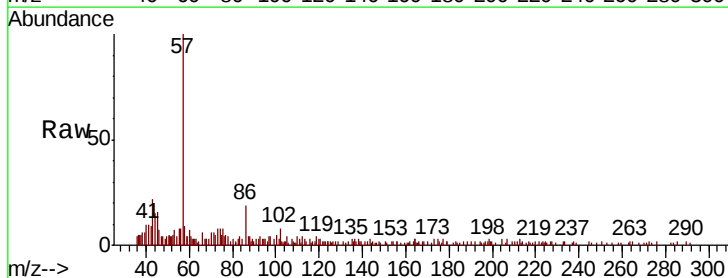
Instrument :
MSVOA_X
ClientSampleId :
PB125964ZHE#09

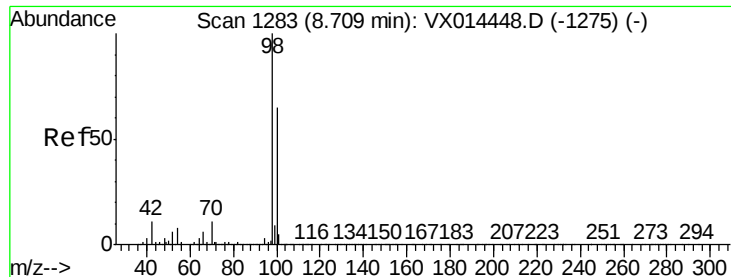
Tot Ion	Ratio	Lower	Upper
41	100		
69	4.2	65.5	98.3#
39	0.0	43.9	65.9#



#49
1,4-Dioxane
Concen: 0.696 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX014516.D
Acq: 09 Jan 2020 22:49

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.4	41.0#
58	0.0	57.1	85.7#





#50

Toluene-d8

Concen: 50.907 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

Instrument :

MSVOA_X

ClientSampleId :

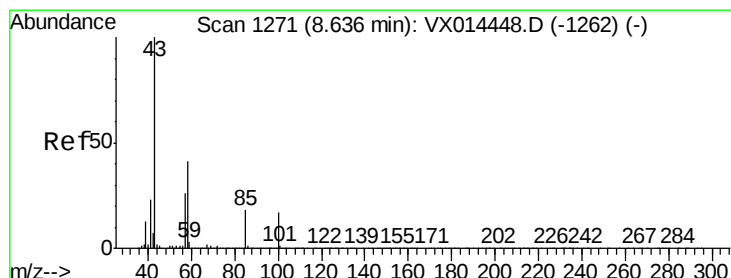
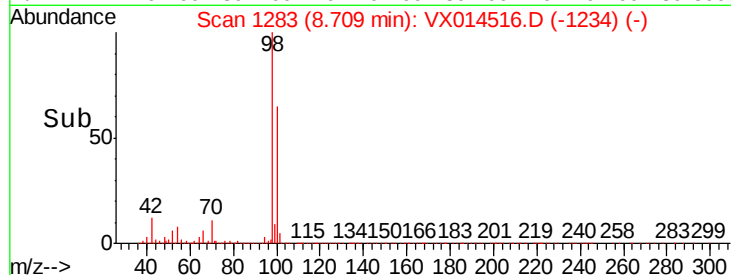
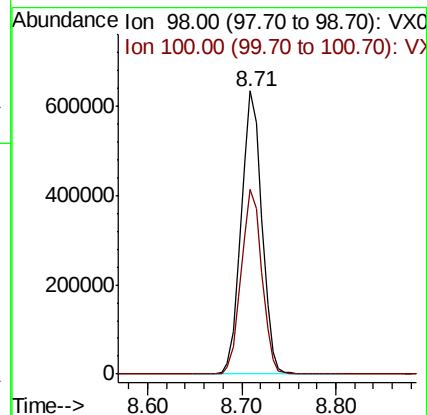
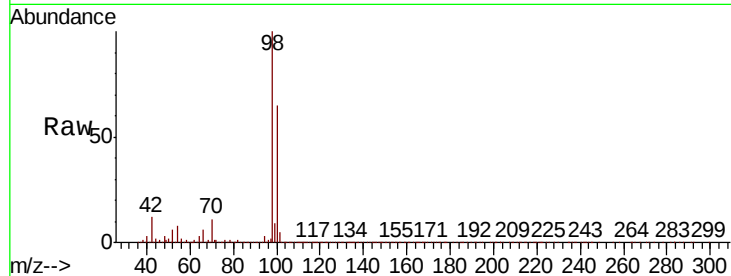
PB125964ZHE#09

Tot Ion: 98 Resp: 964983

Ion Ratio Lower Upper

98 100

100 65.4 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 15.421 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014516.D

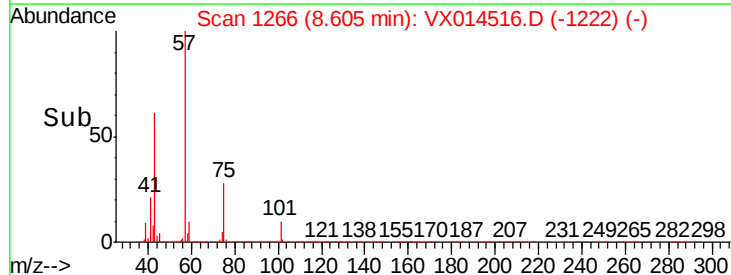
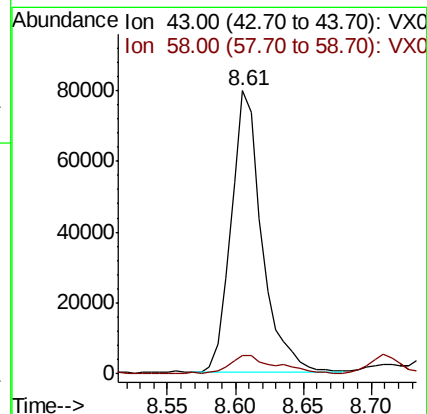
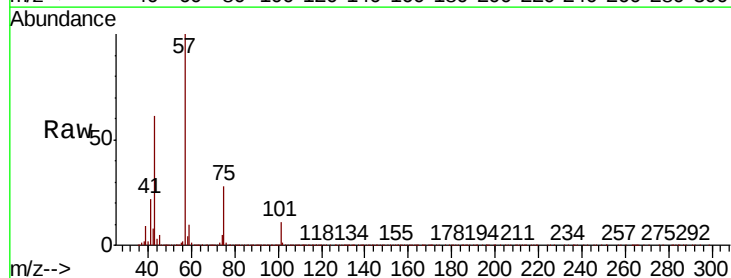
Acq: 09 Jan 2020 22:49

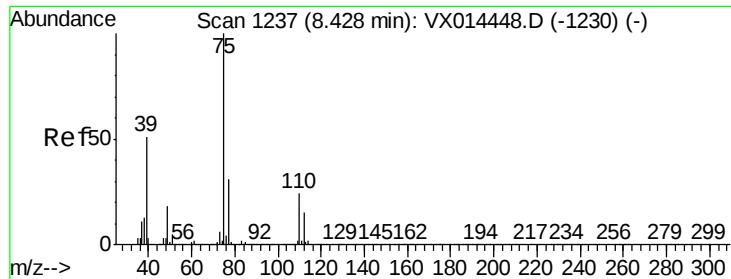
Tgt Ion: 43 Resp: 125124

Ion Ratio Lower Upper

43 100

58 10.1 32.4 48.6#



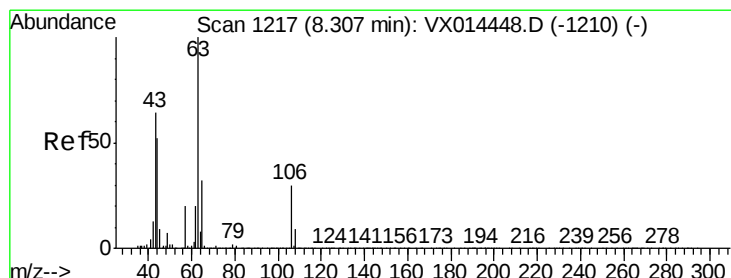
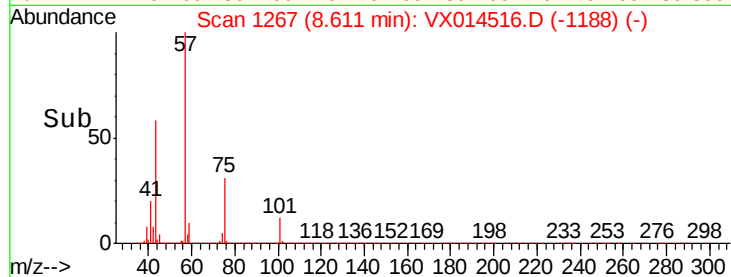
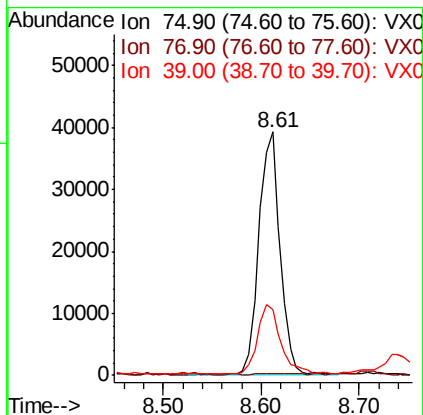
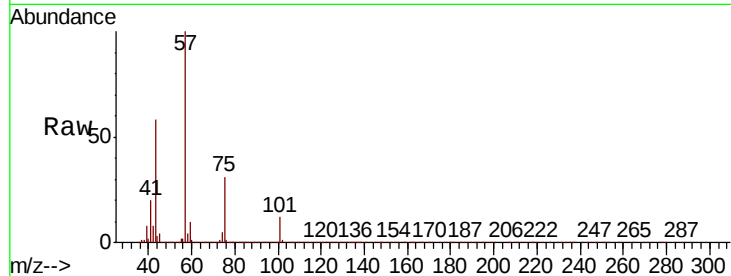


#54

cis-1,3-Dichloropropene
 Concen: 6.534 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX014516.D
 Acq: 09 Jan 2020 22:49

Instrument :
 MSVOA_X
 ClientSampleId :
 PB125964ZHE#09

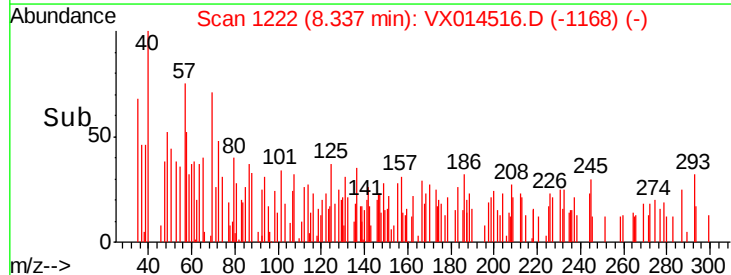
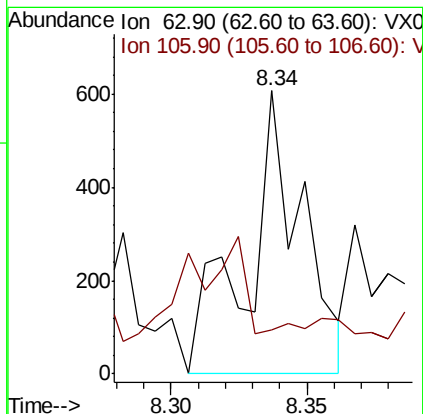
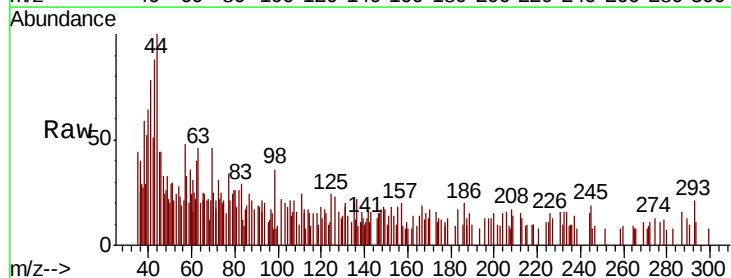
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.1	25.0	37.4#
39	26.1	40.7	61.1#

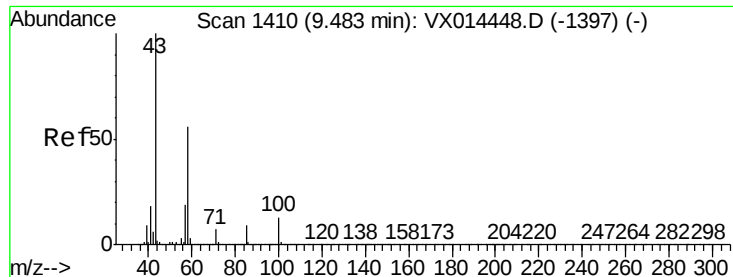


#58

2-Chloroethyl Vinyl ether
 Concen: 0.281 ug/l
 RT: 8.34 min Scan# 1222
 Delta R.T. 0.03 min
 Lab File: VX014516.D
 Acq: 09 Jan 2020 22:49

Tgt Ion	Ratio	Lower	Upper
63	100		
106	31.9	23.6	35.4

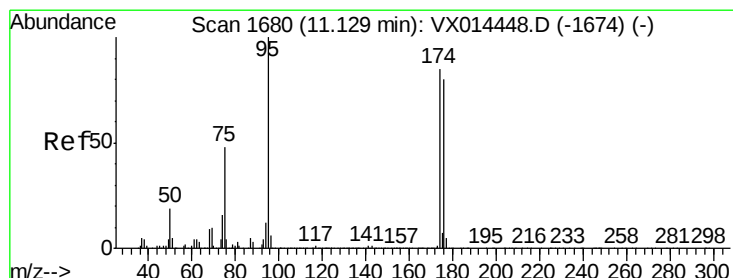
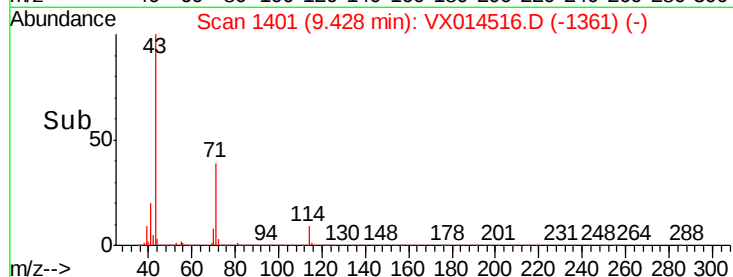
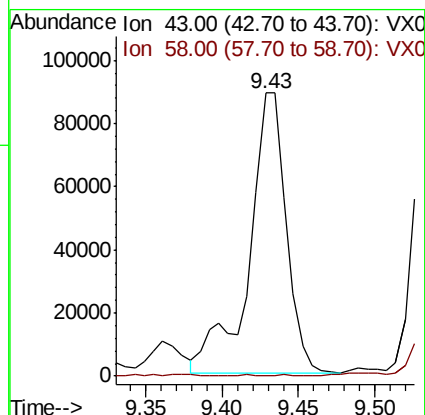
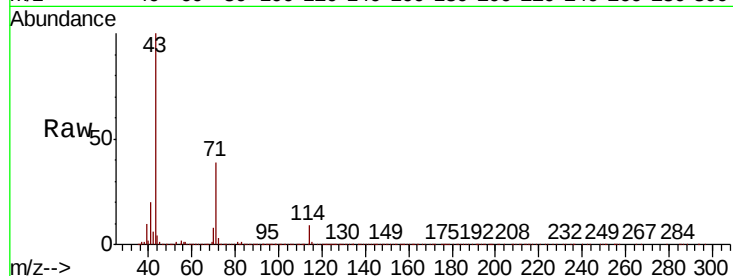




#59
2-Hexanone
Concen: 23.488 ug/l
RT: 9.43 min Scan# 1401
Delta R.T. -0.05 min
Lab File: VX014516.D
Acq: 09 Jan 2020 22:49

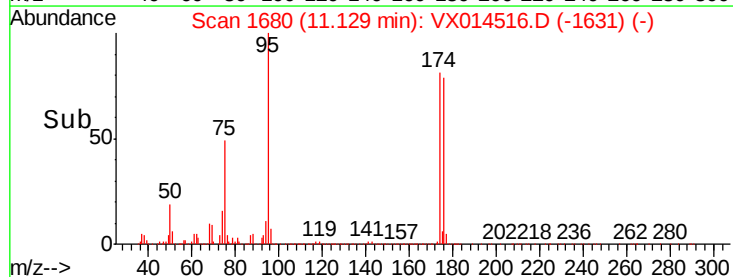
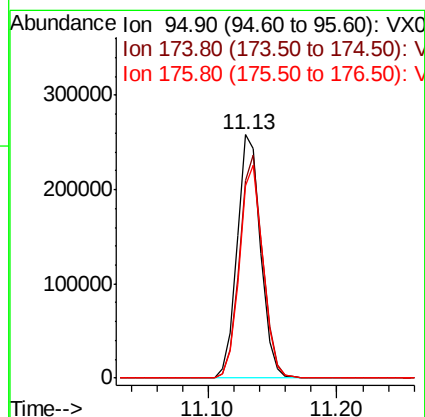
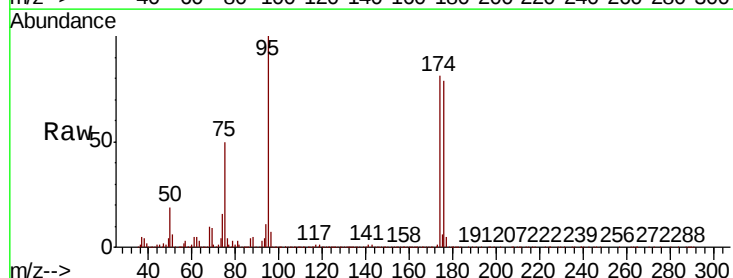
Instrument :
MSVOA_X
ClientSampleId :
PB125964ZHE#09

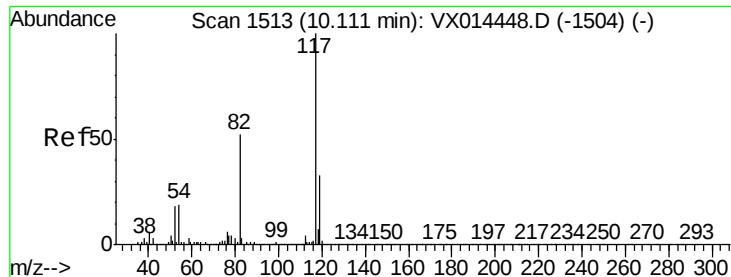
Tot Ion: 43 Resp: 150793
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.7#



#62
4-Bromofluorobenzene
Concen: 47.237 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014516.D
Acq: 09 Jan 2020 22:49

Tgt Ion: 95 Resp: 328717
Ion Ratio Lower Upper
95 100
174 90.5 0.0 180.8
176 87.3 0.0 172.8

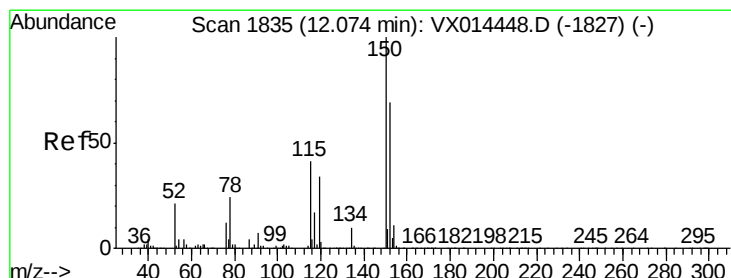
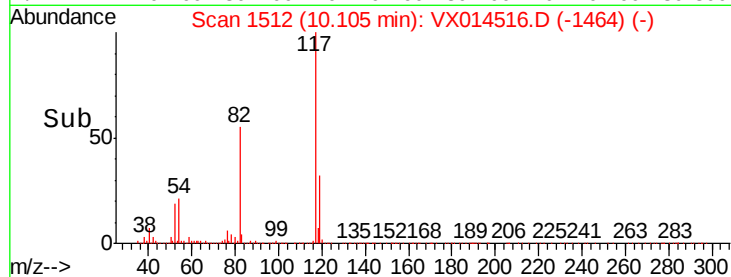
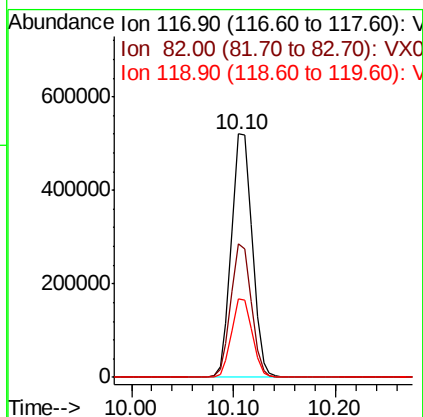
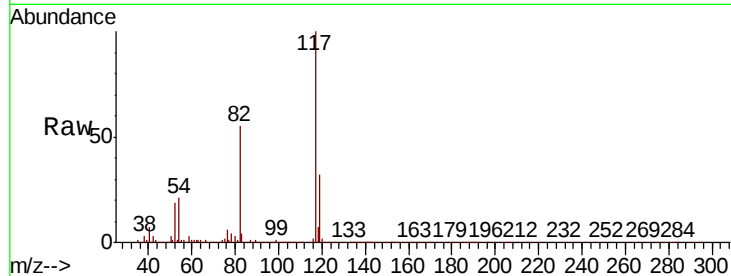




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014516.D
Acq: 09 Jan 2020 22:49

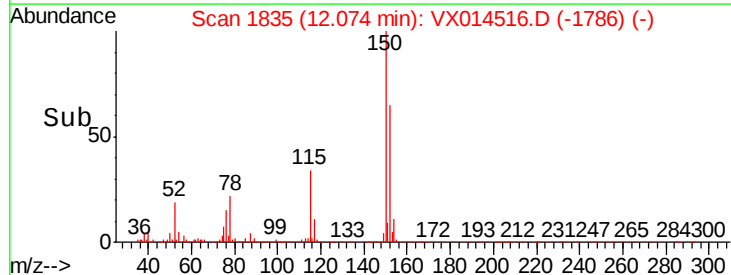
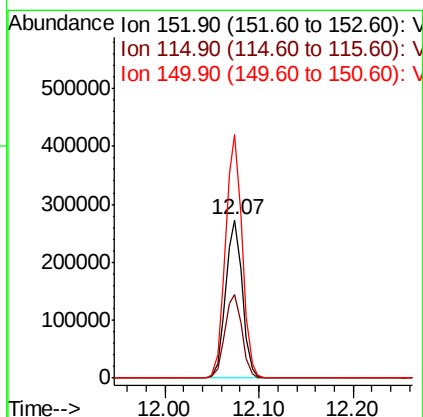
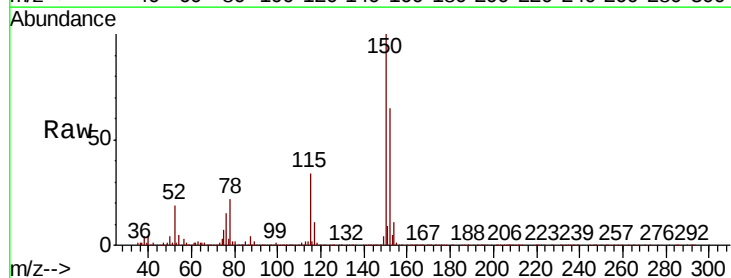
Instrument :
MSVOA_X
ClientSampleId :
PB125964ZHE#09

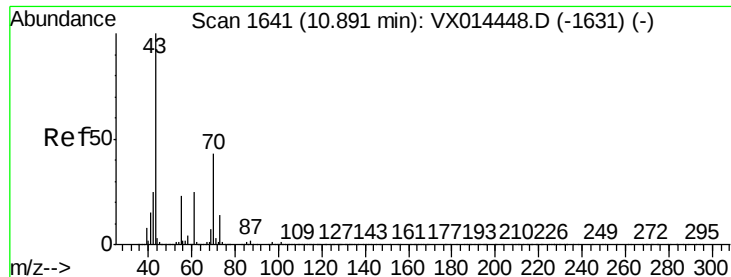
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.0	41.8	62.6
119	32.3	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014516.D
Acq: 09 Jan 2020 22:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	39.5	118.3
150	153.4	0.0	350.2





#74

N-amvl acetate

Concen: 0.609 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

Instrument :

MSVOA_X

ClientSampleId :

PB125964ZHE#09

Tot Ion: 43 Resp: 6307

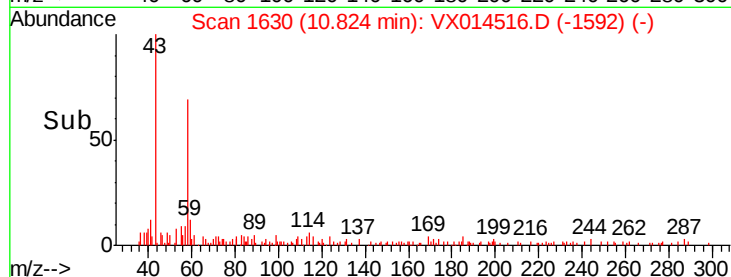
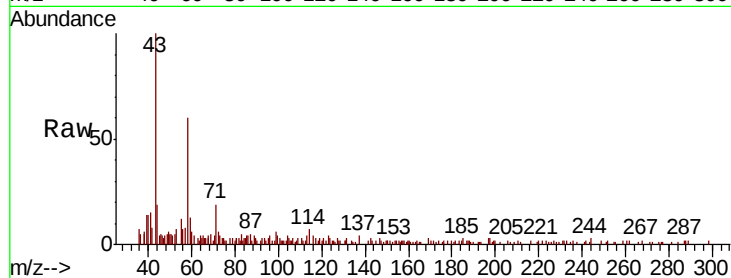
Ion Ratio Lower Upper

43 100

70 2.4 35.1 52.7#

55 10.7 19.3 28.9#

61 0.0 20.0 30.0#

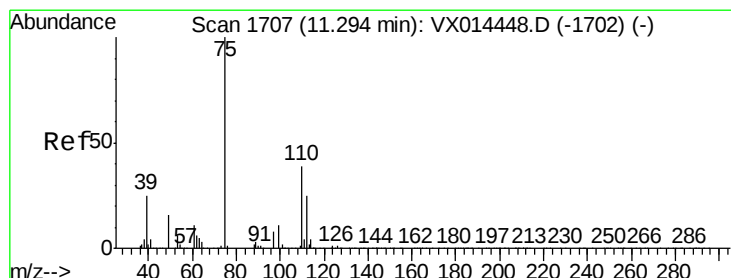
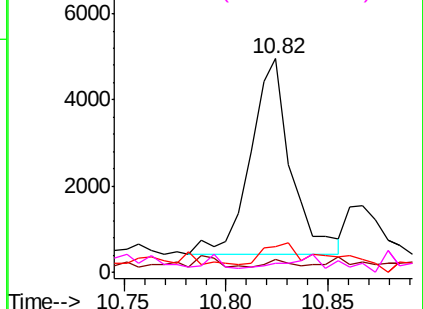


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.022 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014516.D

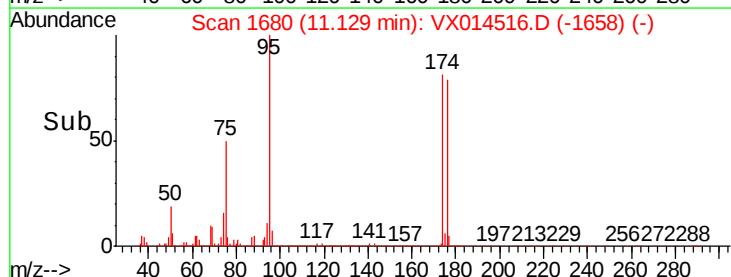
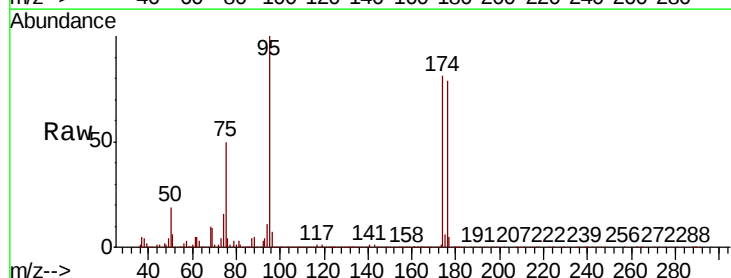
Acq: 09 Jan 2020 22:49

Tgt Ion: 75 Resp: 159311

Ion Ratio Lower Upper

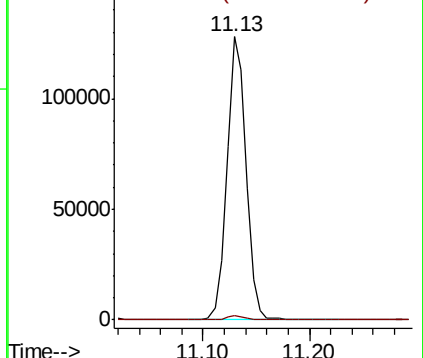
75 100

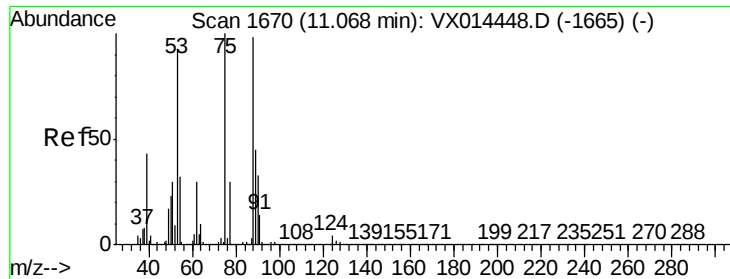
77 1.5 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.867 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

Instrument :

MSVOA_X

ClientSampleId :

PB125964ZHE#09

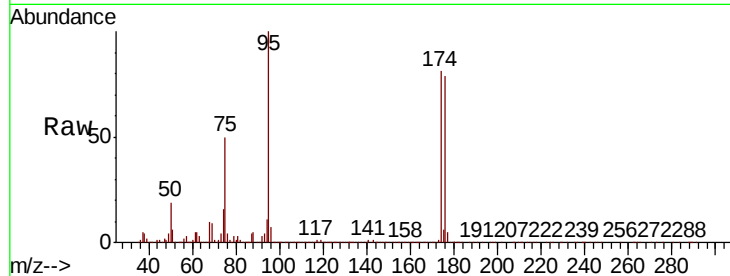
Tot Ion: 75 Resp: 159311

Ion Ratio Lower Upper

75 100

53 0.2 74.8 112.2#

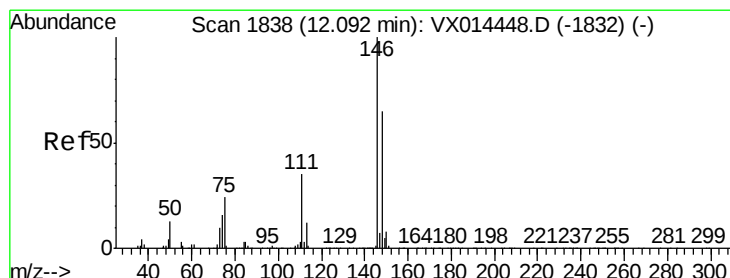
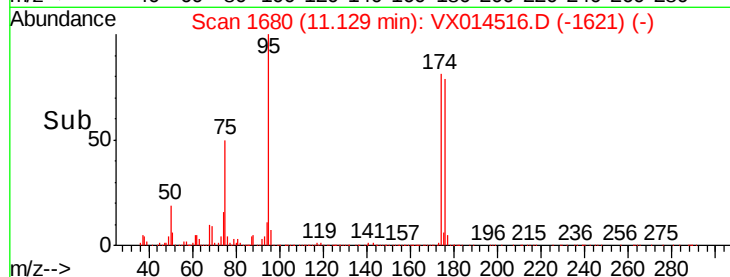
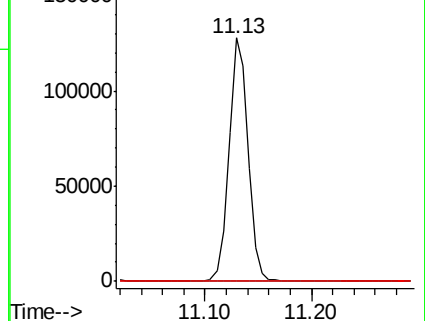
89 0.2 36.3 54.5#



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



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX014516.D

Acq: 09 Jan 2020 22:49

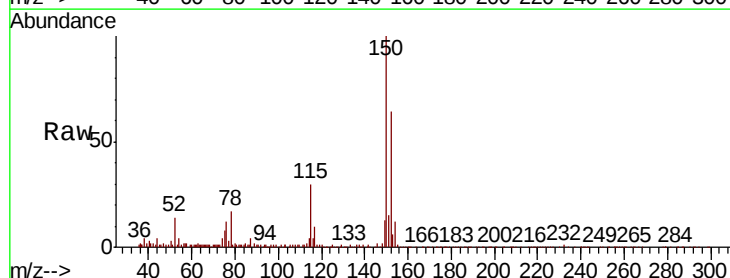
Tgt Ion: 146 Resp: 683

Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.1#

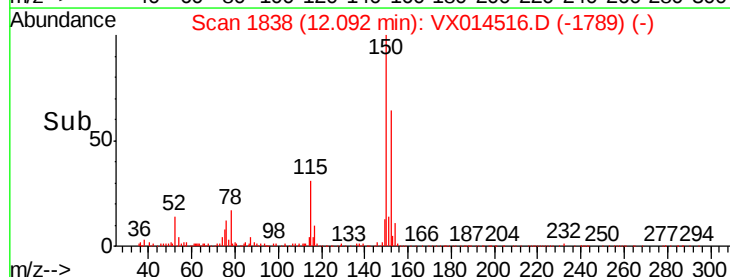
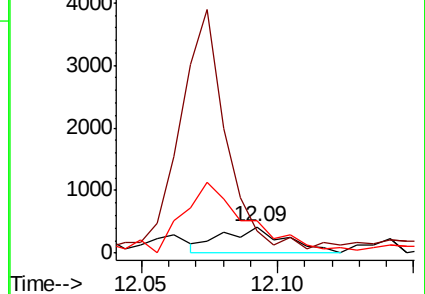
148 0.0 32.1 96.3#

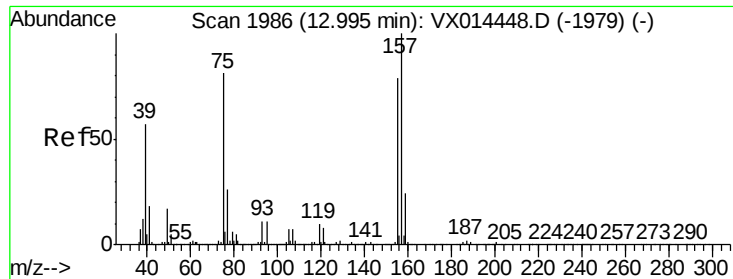


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

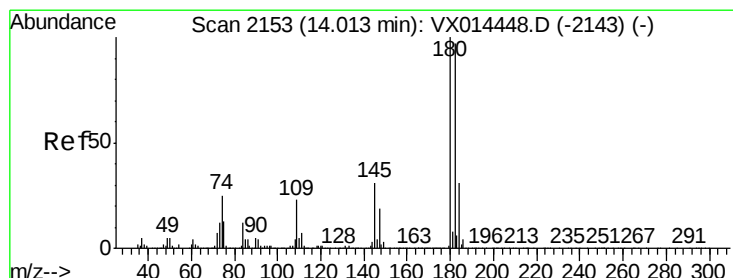
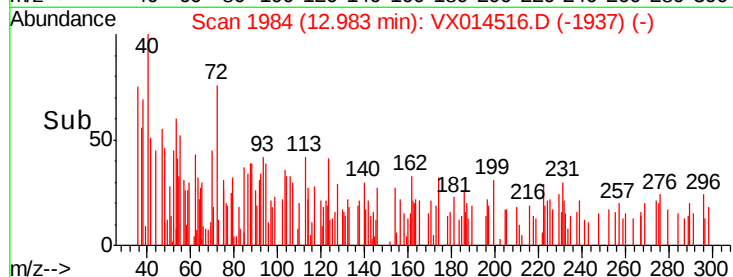
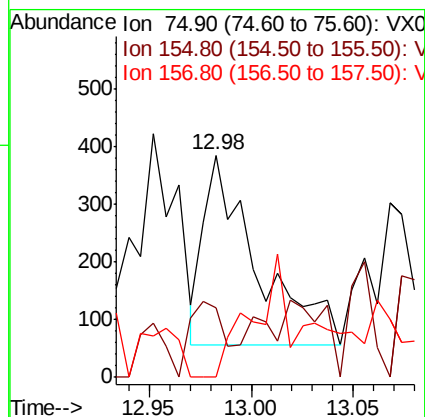
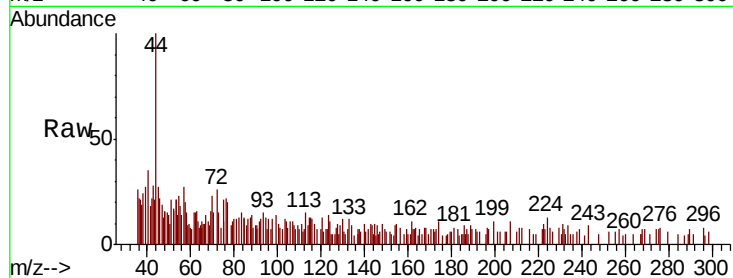




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.357 ug/l
 RT: 12.98 min Scan# 1984
 Delta R.T. -0.01 min
 Lab File: VX014516.D
 Acq: 09 Jan 2020 22:49

Instrument :
 MSVOA_X
 ClientSampleId :
 PB125964ZHE#09

Tot Ion: 75 Resp: 605
 Ion Ratio Lower Upper
 75 100
 155 24.6 48.7 146.1#
 157 0.0 62.0 185.9#



#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX014516.D
 Acq: 09 Jan 2020 22:49

Tgt Ion:180 Resp: 547
 Ion Ratio Lower Upper
 180 100
 182 45.2 47.9 143.6#
 145 37.1 14.8 44.3

