

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX051420\
 Data File : VX016254.D
 Acq On : 15 May 2020 01:04
 Operator : JC/SP
 Sample : PB128866ZHE#02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128866ZHE#02

Quant Time: May 15 01:41:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	247112	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	417387	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	407801	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	211416	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	150743	46.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.72%	
35) Dibromofluoromethane	5.46	113	122280	46.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.48%	
50) Toluene-d8	8.70	98	516611	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
62) 4-Bromofluorobenzene	11.12	95	207710	53.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.20%	

Target Compounds						Qvalue
5) Bromomethane	1.64	94	496	0.30	ug/l #	35
11) Tert butyl alcohol	3.01	59	2512	3.05	ug/l	98
13) Acrolein	2.28	56	360	0.70	ug/l #	77
15) Acrylonitrile	3.12	53	444	0.26	ug/l	97
16) Acetone	2.42	43	14319	9.87	ug/l	98
18) Methyl Acetate	2.75	43	3133	0.88	ug/l	99
20) Methylene Chloride	2.84	84	10065	3.37	ug/l	94
25) 2-Butanone	4.64	43	11967	5.12	ug/l	94
29) Tetrahydrofuran	5.12	42	1243	0.80	ug/l #	71
36) 1,1-Dichloropropene	5.63	75	18729	4.56	ug/l #	49
37) Ethyl Acetate	4.64	43	11967	2.51	ug/l #	68
38) Carbon Tetrachloride	5.64	117	24507	5.87	ug/l #	13
43) Isopropyl Acetate	6.42	43	74605	9.82	ug/l	98
48) Methyl methacrylate	7.65	41	5190	1.44	ug/l #	14
49) 1,4-Dioxane	7.85	88	218	2.52	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	67836	14.59	ug/l #	52
52) Toluene	8.77	92	1521	0.20	ug/l	98
54) cis-1,3-Dichloropropene	8.60	75	34212	6.53	ug/l #	56
56) Ethyl methacrylate	9.29	69	1008	0.21	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6128	1.19	ug/l #	46
59) 2-Hexanone	9.52	43	71732	19.65	ug/l #	50
74) N-amyl acetate	10.80	43	5043	0.70	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	11.25	83	93	2.08	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	100742	21.00	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	3528	0.27	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.12	75	100742	50.04	ug/l #	13
93) 1,2,4-Trichlorobenzene	13.63	180	1029	0.20	ug/l	92
94) Hexachlorobutadiene	13.76	225	406	0.71	ug/l	85

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016254.D

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MSVOA_X

ClientSampleId :

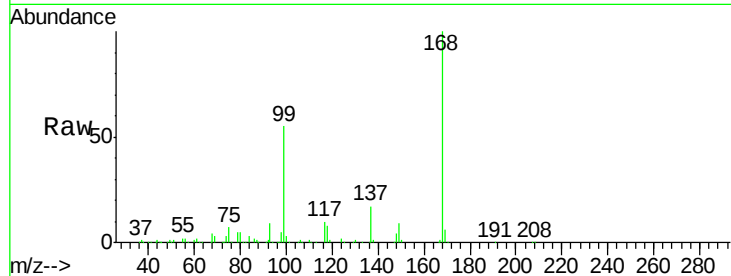
PB128866ZHE#02

Tgt Ion:168 Resp: 247112

Ion Ratio Lower Upper

168 100

99 54.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

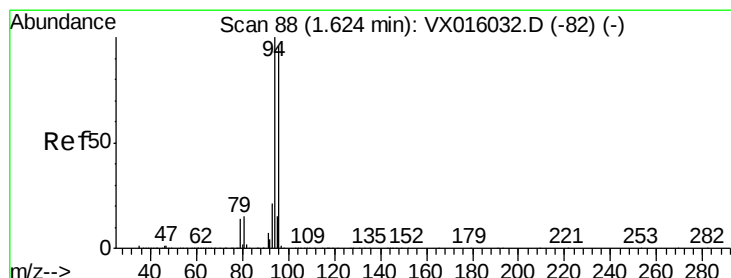
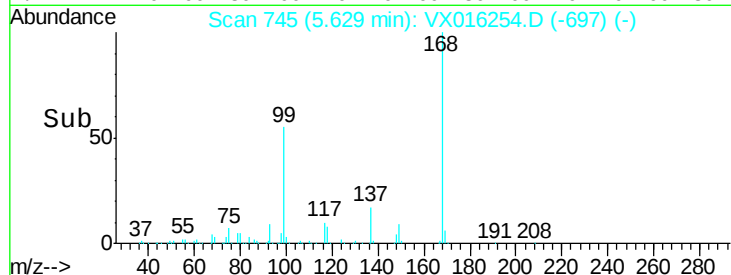
40000

20000

0

Time-->

5.50 5.60 5.70



#5

Bromomethane

Concen: 0.30 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016254.D

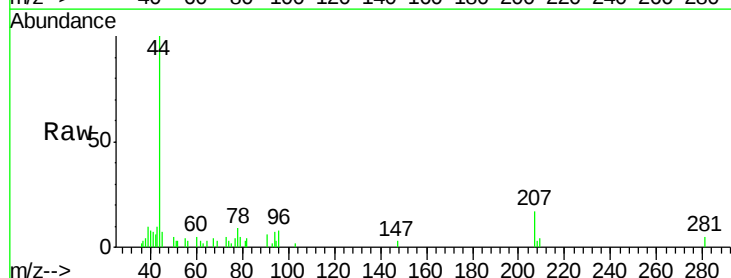
Acq: 15 May 2020 01:04

Tgt Ion: 94 Resp: 496

Ion Ratio Lower Upper

94 100

96 32.4 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

150

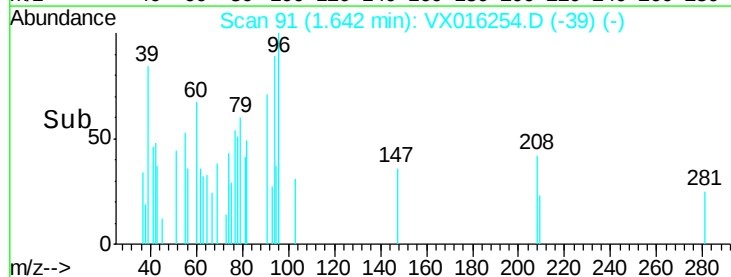
100

50

0

Time-->

1.60 1.65 1.70



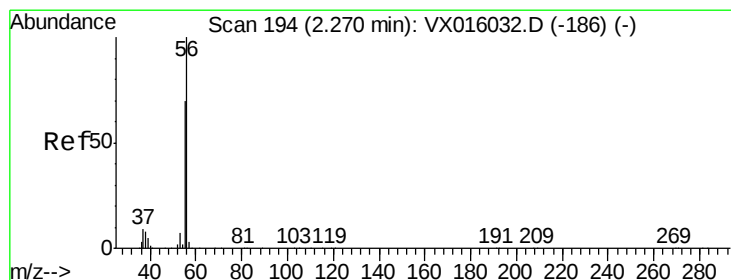
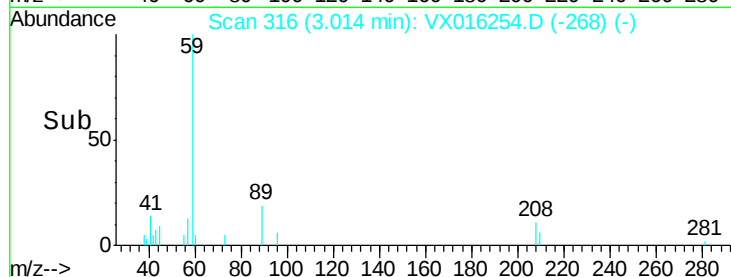
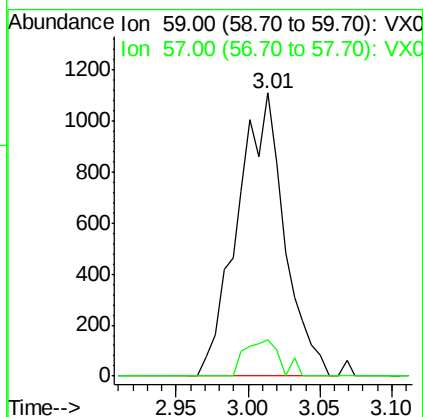
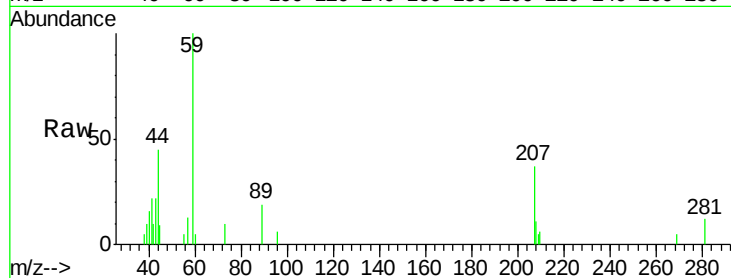


#11

Tert butyl alcohol
Concen: 3.05 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX016254.D
Acq: 15 May 2020 01:04

Instrument :
MSVOA_X
ClientSampleId :
PB128866ZHE#02

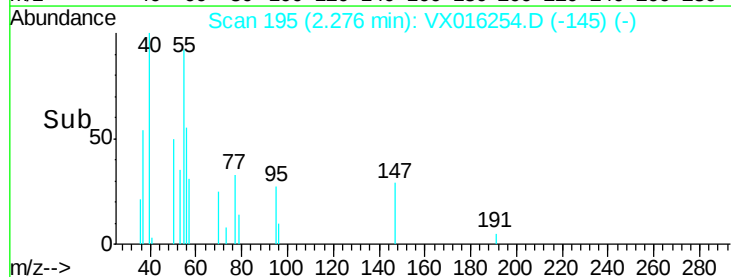
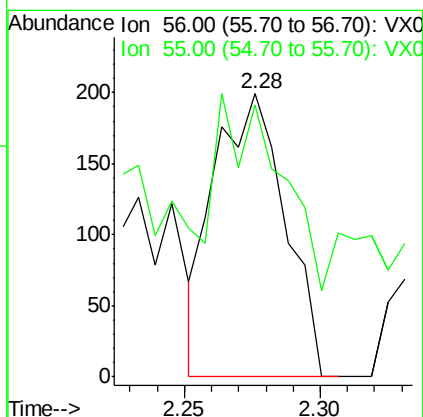
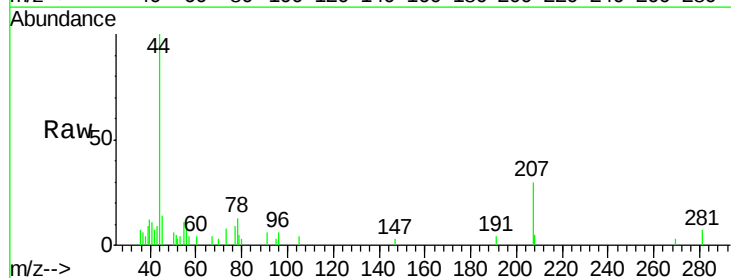
Tgt Ion: 59 Resp: 2512
Ion Ratio Lower Upper
59 100
57 9.6 8.2 12.4

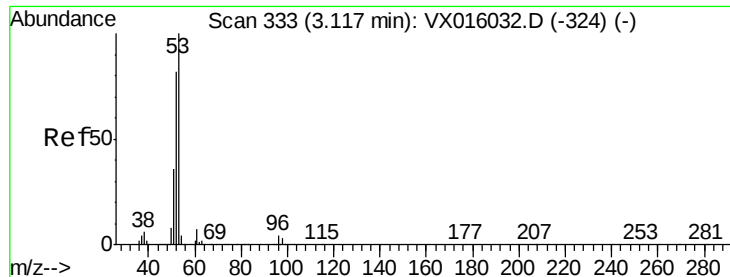


#13

Acrolein
Concen: 0.70 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016254.D
Acq: 15 May 2020 01:04

Tgt Ion: 56 Resp: 360
Ion Ratio Lower Upper
56 100
55 89.7 56.5 84.7#





#15

Acrylonitrile

Concen: 0.26 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

Instrument :

MSVOA_X

ClientSampleId :

PB128866ZHE#02

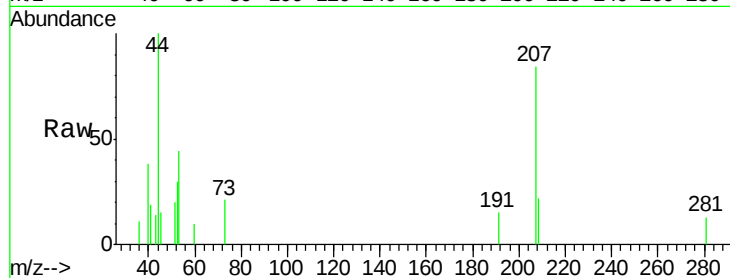
Tgt Ion: 53 Resp: 444

Ion Ratio Lower Upper

53 100

52 84.0 66.1 99.1

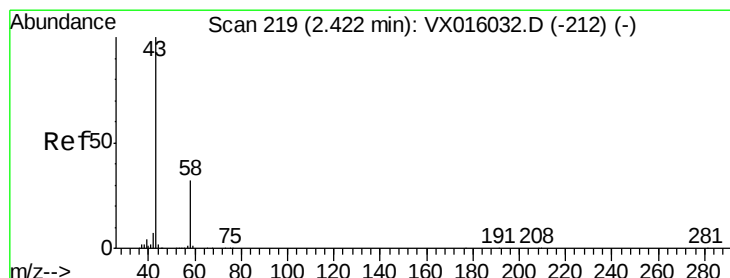
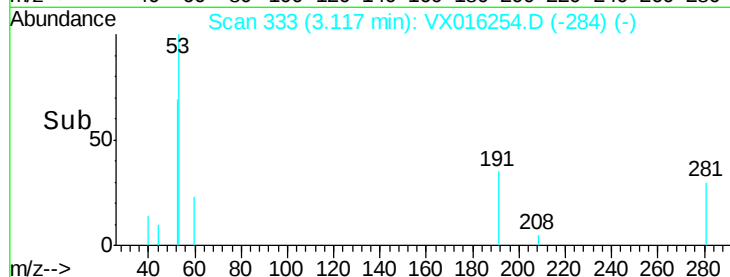
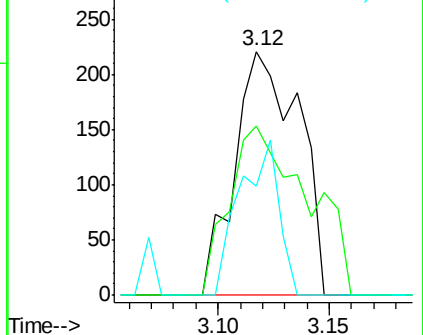
51 38.7 28.8 43.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 9.87 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016254.D

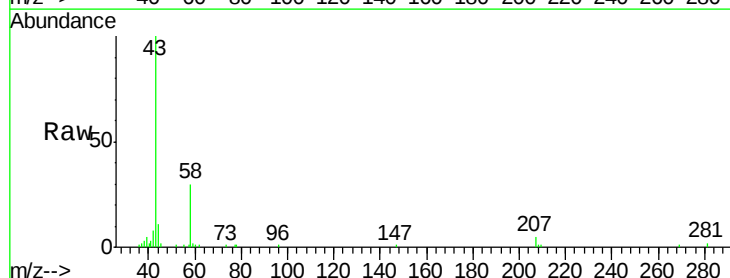
Acq: 15 May 2020 01:04

Tgt Ion: 43 Resp: 14319

Ion Ratio Lower Upper

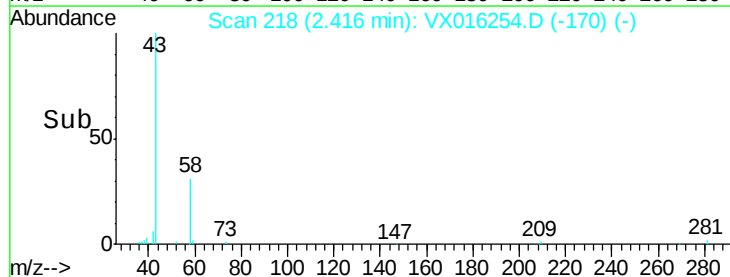
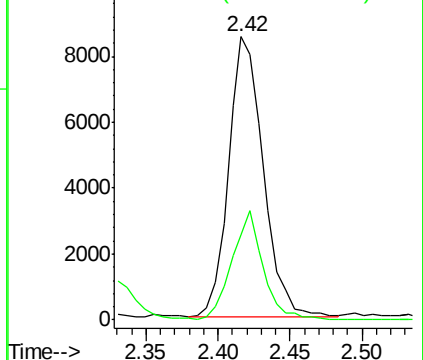
43 100

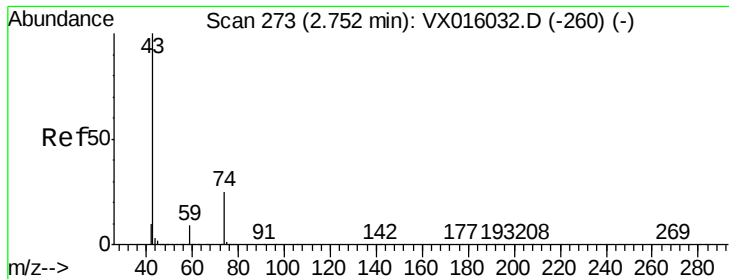
58 30.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

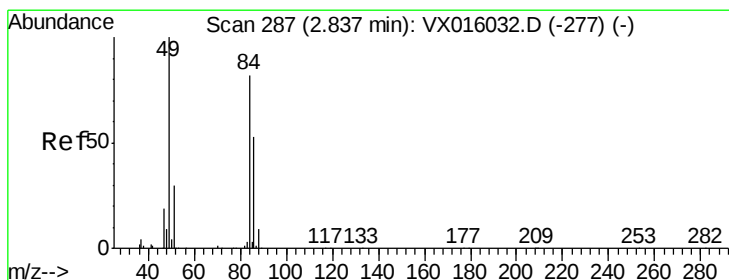
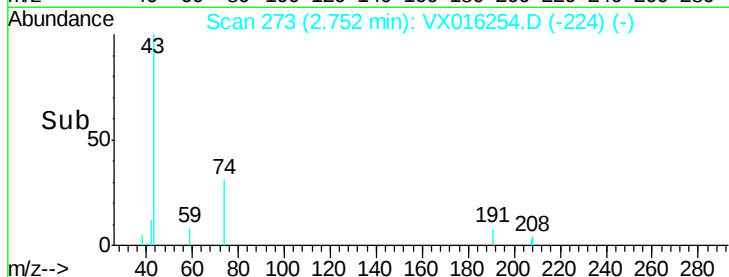
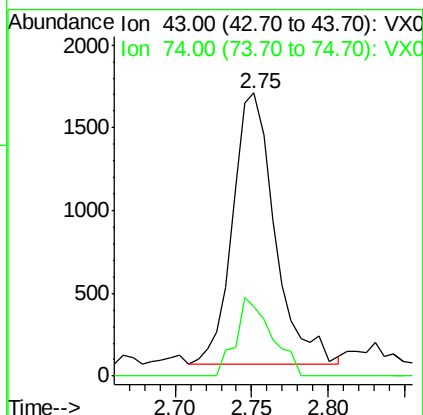
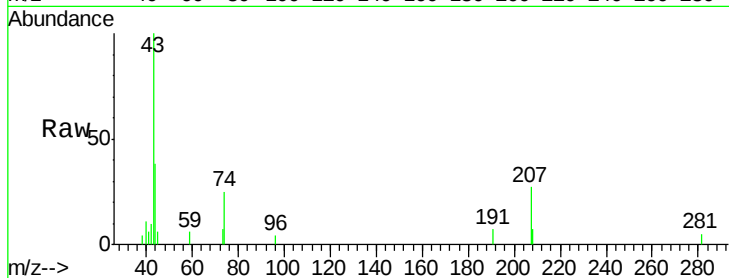




#18
Methyl Acetate
Concen: 0.88 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016254.D
Acq: 15 May 2020 01:04

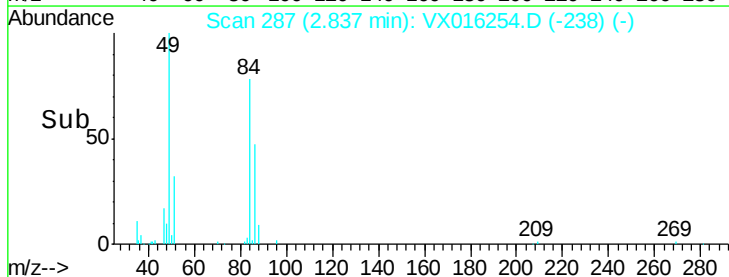
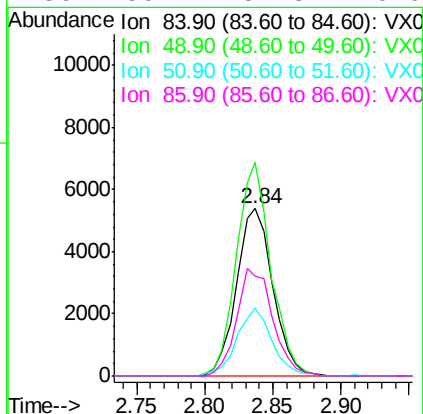
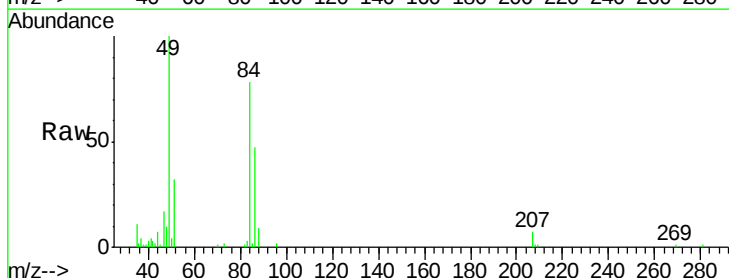
Instrument :
MSVOA_X
ClientSampleId :
PB128866ZHE#02

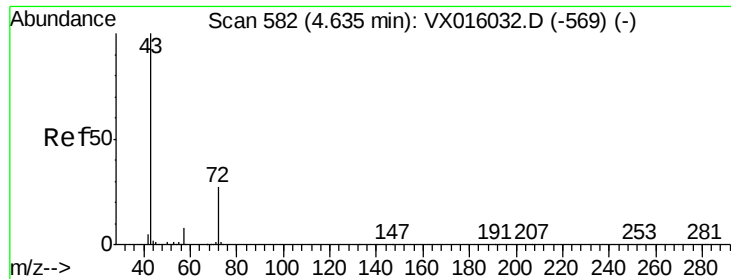
Tgt Ion: 43 Resp: 3133
Ion Ratio Lower Upper
43 100
74 24.6 20.2 30.2



#20
Methylene Chloride
Concen: 3.37 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016254.D
Acq: 15 May 2020 01:04

Tgt Ion: 84 Resp: 10065
Ion Ratio Lower Upper
84 100
49 127.4 97.3 145.9
51 40.6 29.3 43.9
86 59.7 51.3 76.9





#25

2-Butanone

Concen: 5.12 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

Instrument :

MSVOA_X

ClientSampleId :

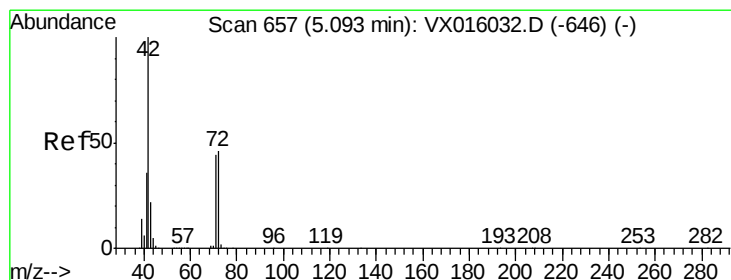
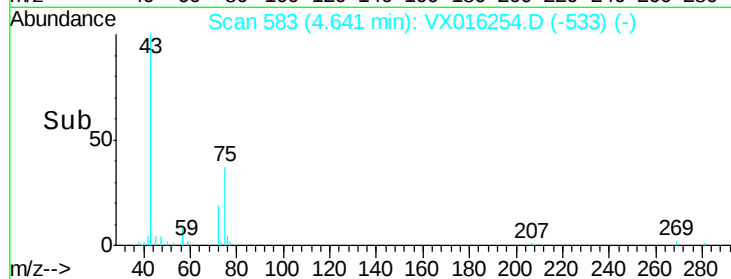
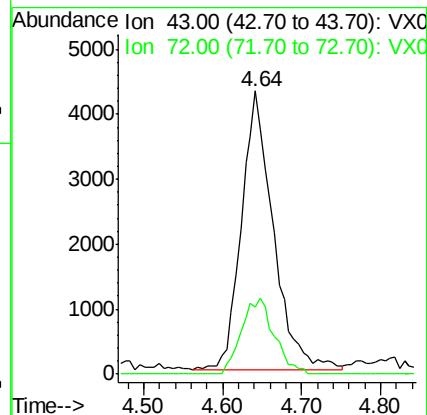
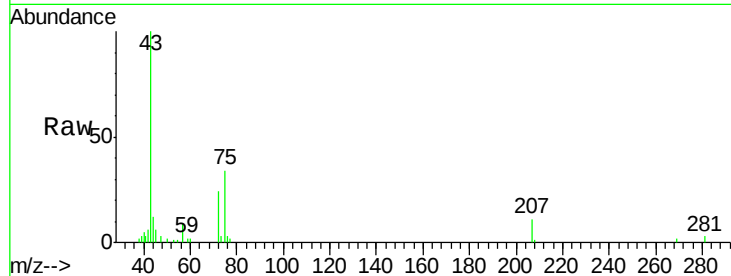
PB128866ZHE#02

Tgt Ion: 43 Resp: 11967

Ion Ratio Lower Upper

43 100

72 24.3 21.8 32.8



#29

Tetrahydrofuran

Concen: 0.80 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

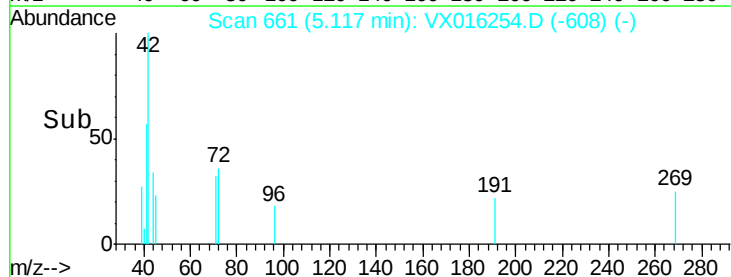
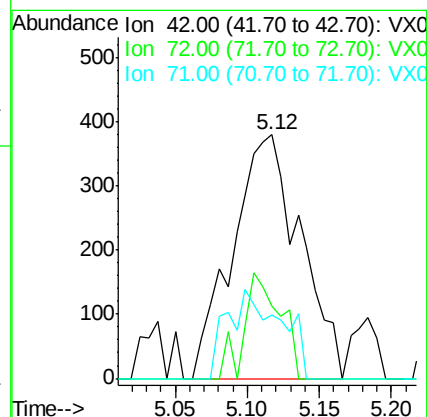
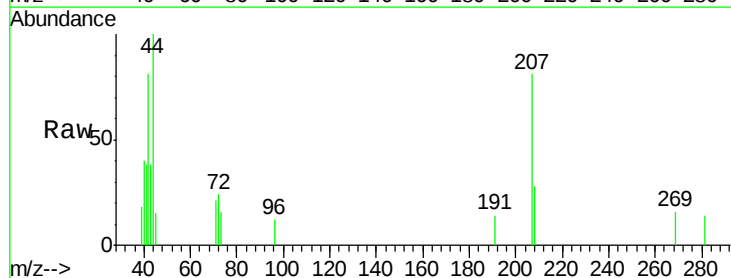
Tgt Ion: 42 Resp: 1243

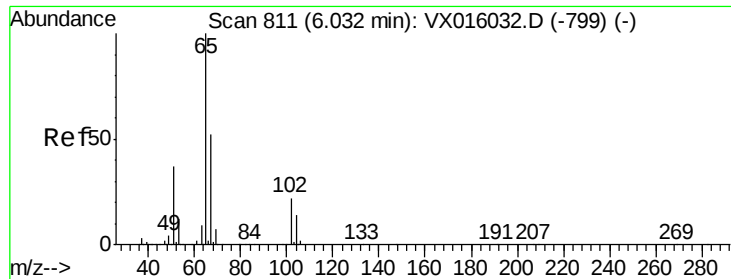
Ion Ratio Lower Upper

42 100

72 22.8 37.1 55.7#

71 28.8 34.5 51.7#





#33

1,2-Dichloroethane-d4

Concen: 46.36 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

Instrument :

MSVOA_X

ClientSampleId :

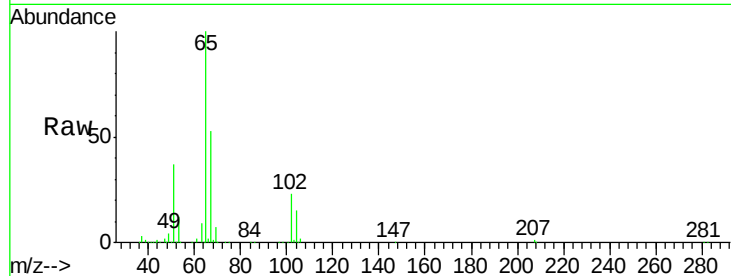
PB128866ZHE#02

Tgt Ion: 65 Resp: 150743

Ion Ratio Lower Upper

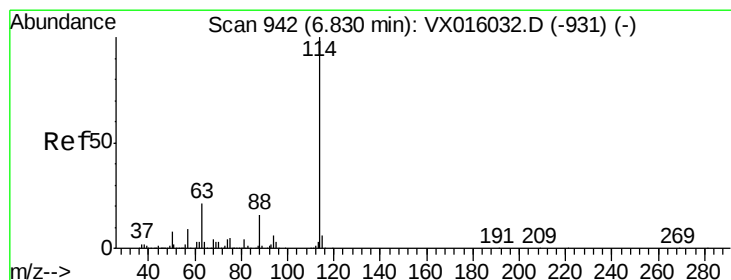
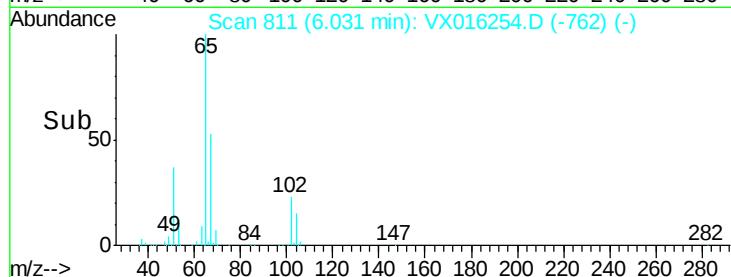
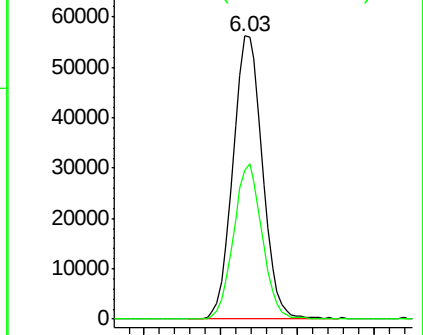
65 100

67 53.2 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

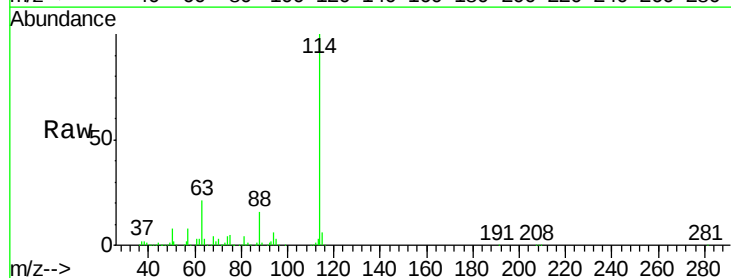
Tgt Ion: 114 Resp: 417387

Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.8

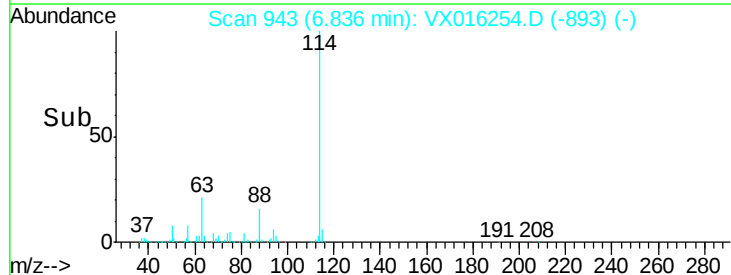
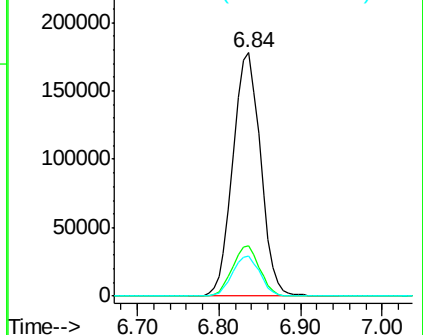
88 16.2 0.0 31.4

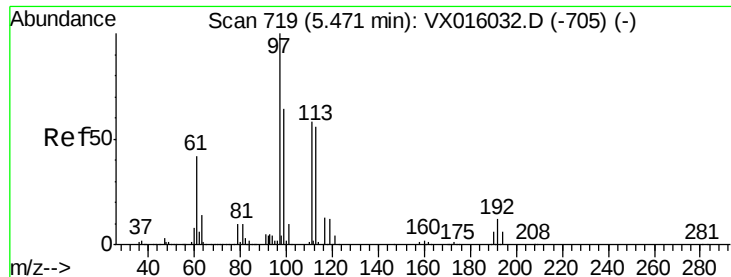


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.24 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

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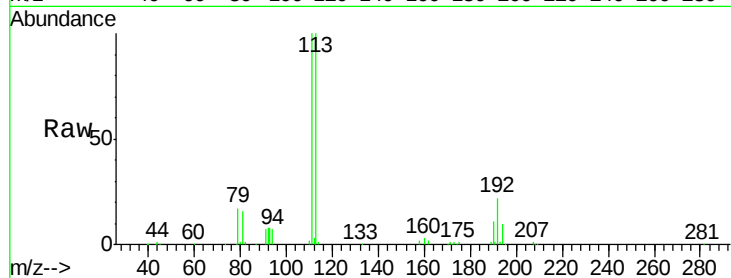
Tgt Ion:113 Resp: 122280

Ion Ratio Lower Upper

113 100

111 103.3 81.6 122.4

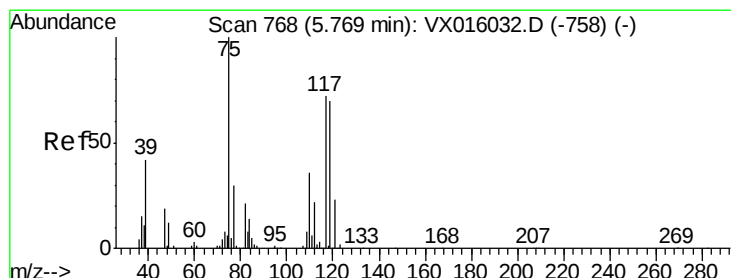
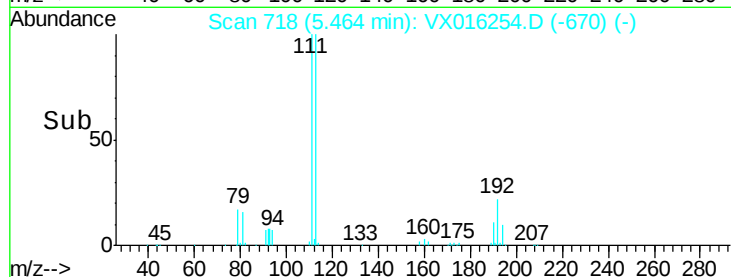
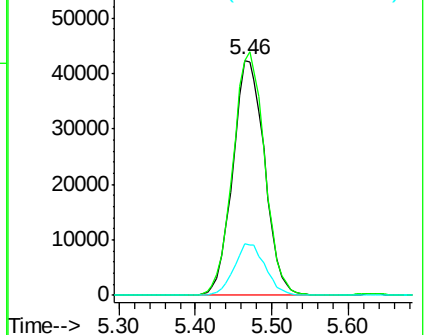
192 21.5 17.0 25.4



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: 4.56 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

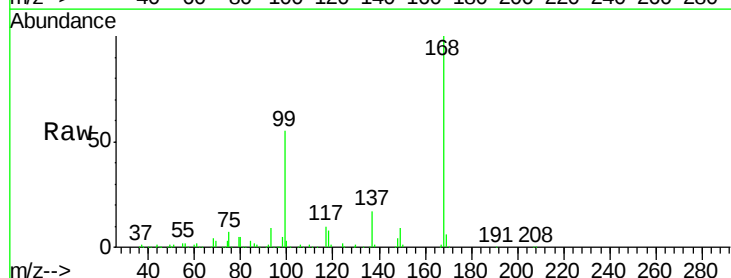
Tgt Ion: 75 Resp: 18729

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.1#

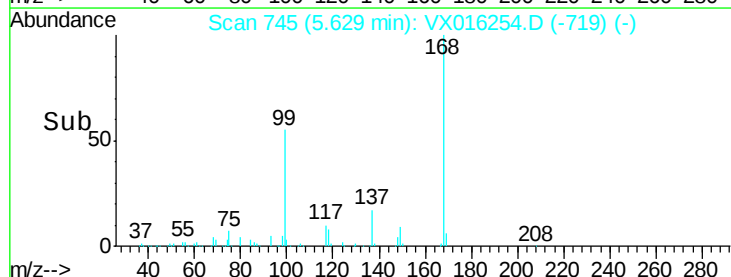
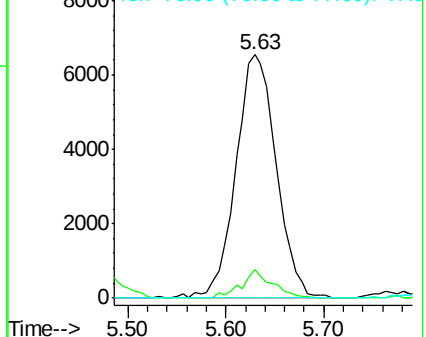
77 0.0 25.0 37.6#

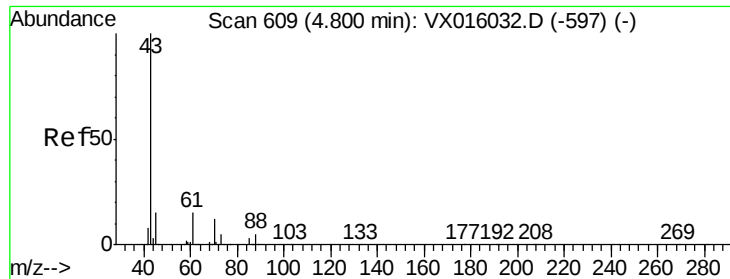


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

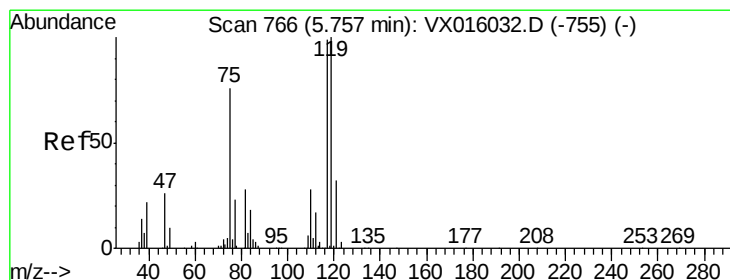
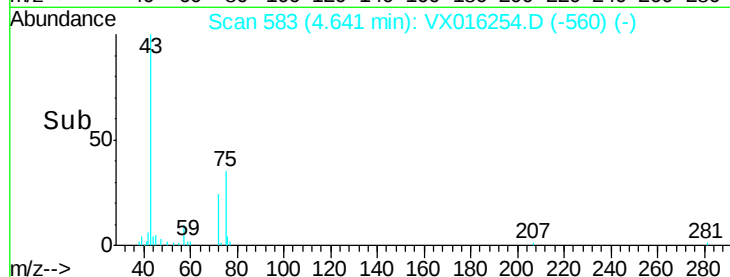
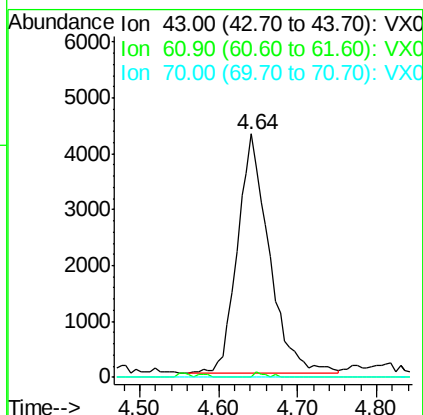
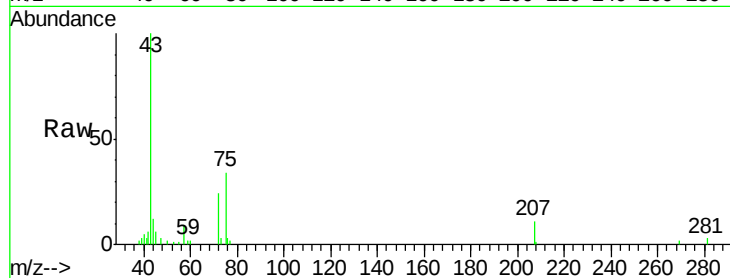




#37
Ethyl Acetate
Concen: 2.51 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.16 min
Lab File: VX016254.D
Acq: 15 May 2020 01:04

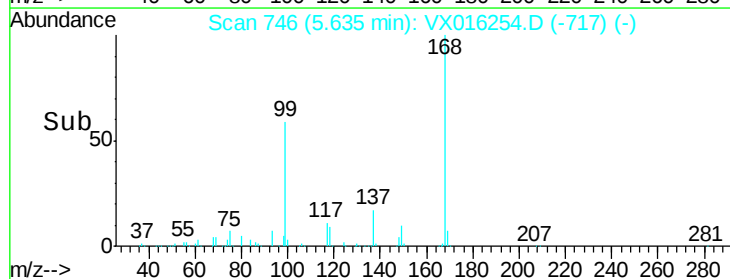
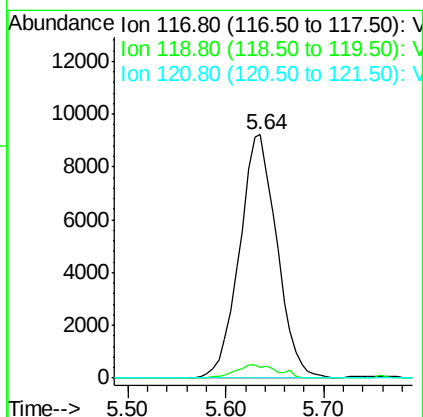
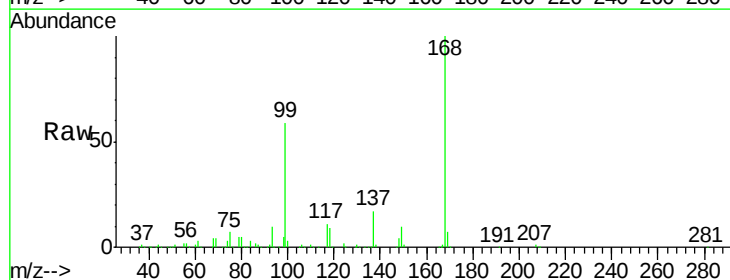
Instrument :
MSVOA_X
ClientSampleId :
PB128866ZHE#02

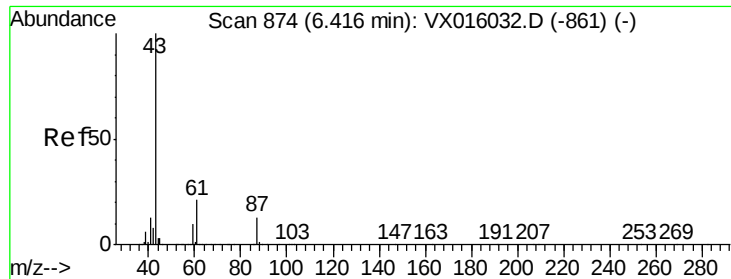
Tgt Ion: 43 Resp: 11967
Ion Ratio Lower Upper
43 100
61 0.8 11.7 17.5#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 5.87 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.12 min
Lab File: VX016254.D
Acq: 15 May 2020 01:04

Tgt Ion: 117 Resp: 24507
Ion Ratio Lower Upper
117 100
119 4.4 80.3 120.5#
121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 9.82 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

Instrument :

MSVOA_X

ClientSampleId :

PB128866ZHE#02

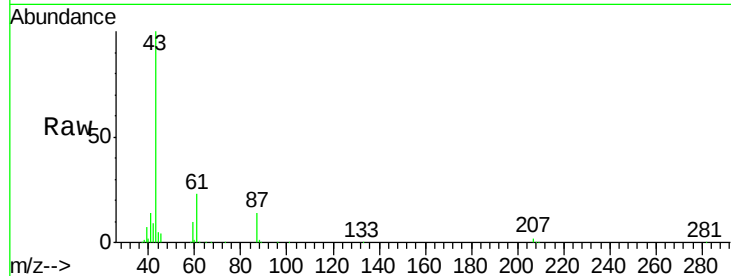
Tgt Ion: 43 Resp: 74605

Ion Ratio Lower Upper

43 100

61 22.0 17.0 25.4

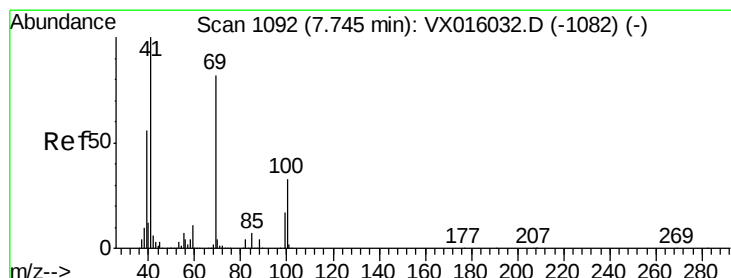
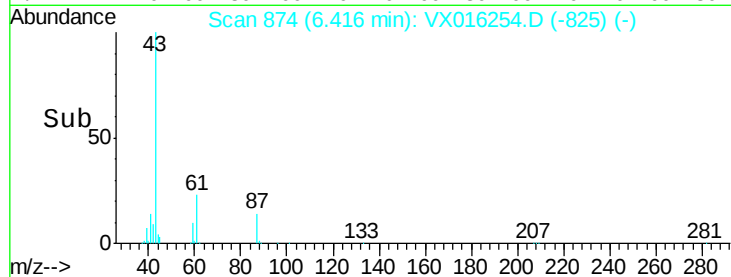
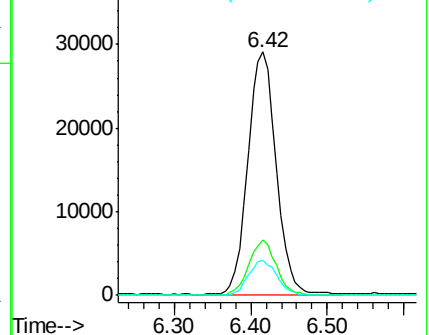
87 14.7 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.44 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

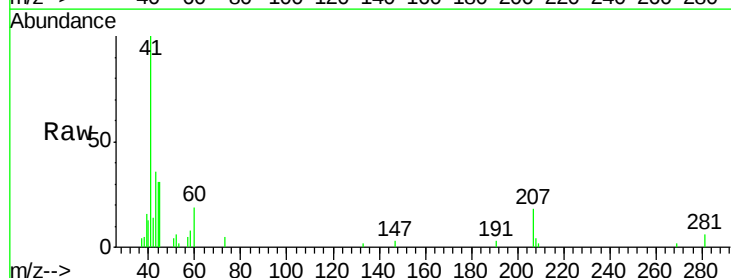
Tgt Ion: 41 Resp: 5190

Ion Ratio Lower Upper

41 100

69 0.0 67.8 101.6#

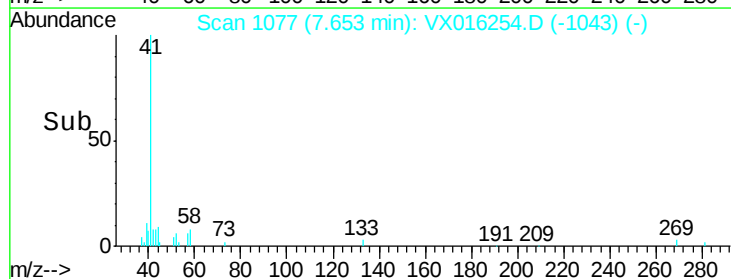
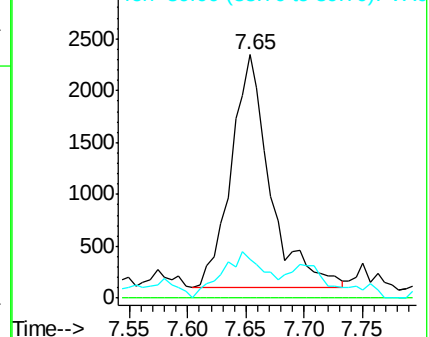
39 0.0 44.6 67.0#

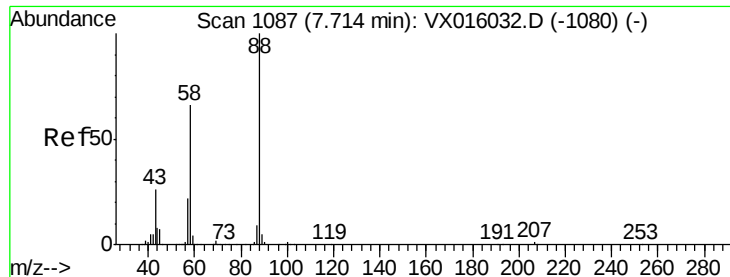


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.52 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.13 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

Instrument :

MSVOA_X

ClientSampleId :

PB128866ZHE#02

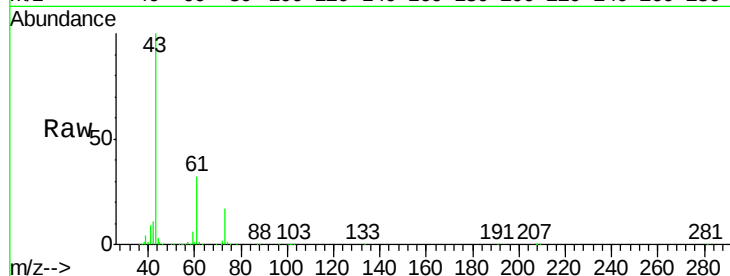
Tgt Ion: 88 Resp: 218

Ion Ratio Lower Upper

88 100

43 573437.2 25.3 37.9#

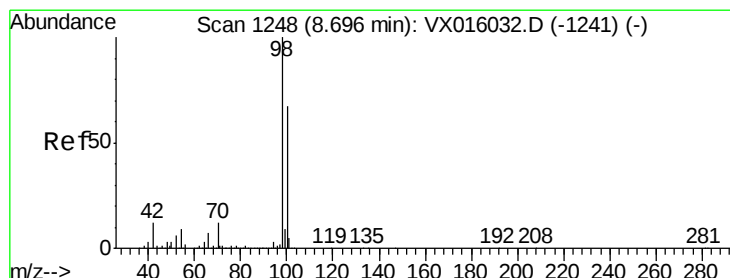
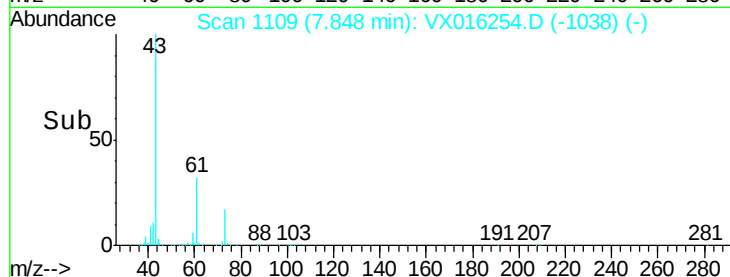
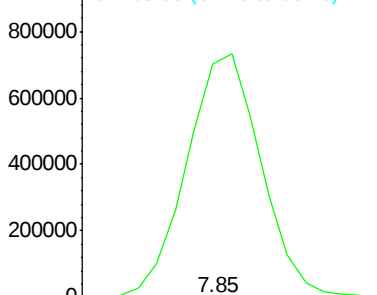
58 2489.4 55.9 83.9#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.70 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016254.D

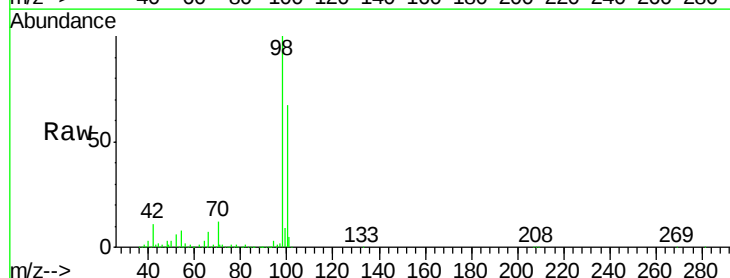
Acq: 15 May 2020 01:04

Tgt Ion: 98 Resp: 516611

Ion Ratio Lower Upper

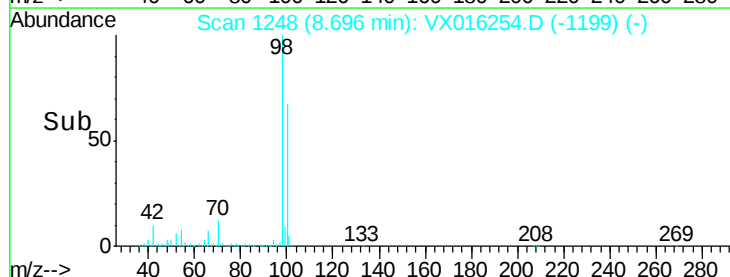
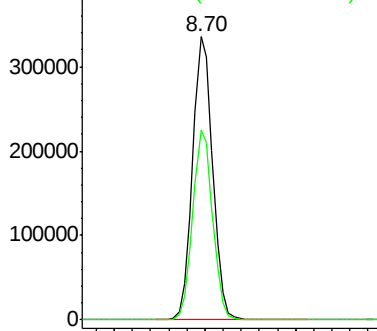
98 100

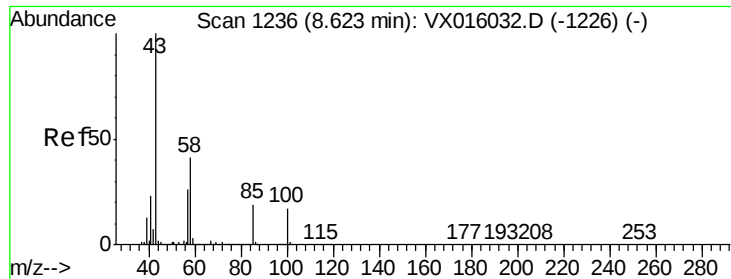
100 66.5 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

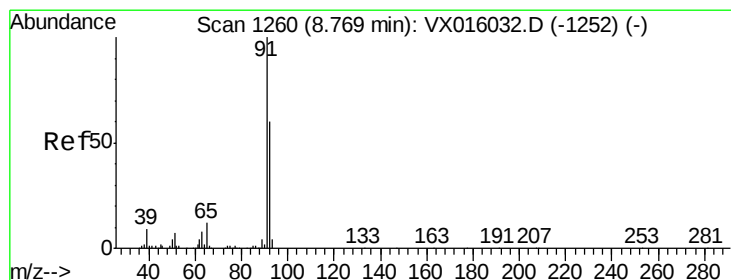
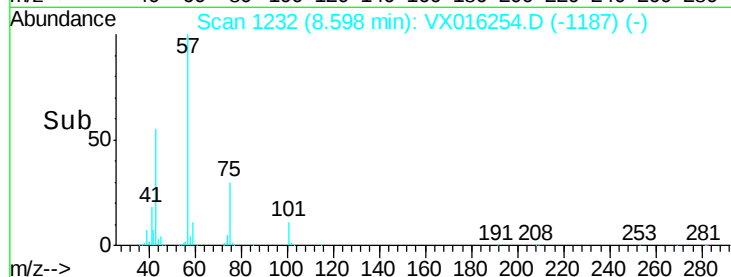
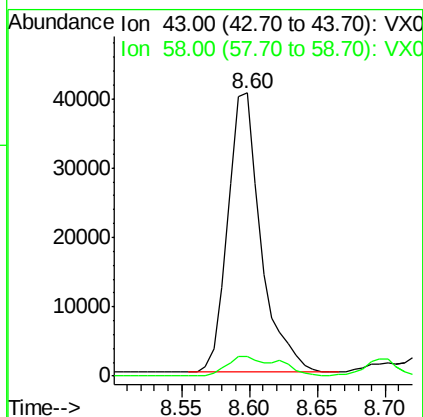
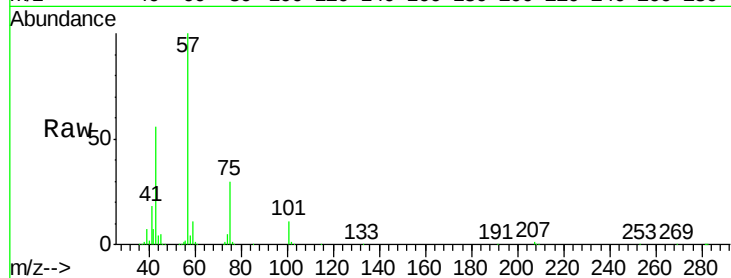




#51
 4-Methyl-2-Pentanone
 Concen: 14.59 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. -0.02 min
 Lab File: VX016254.D
 Acq: 15 May 2020 01:04

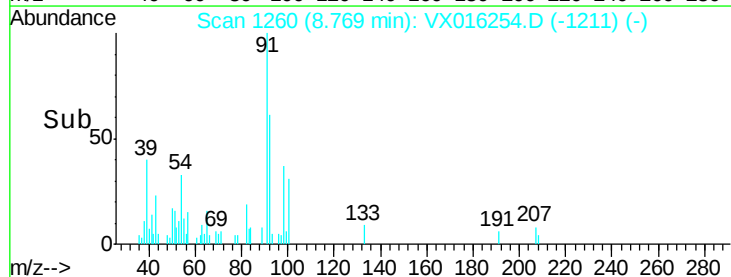
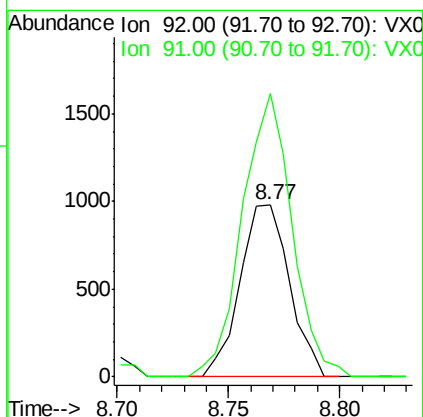
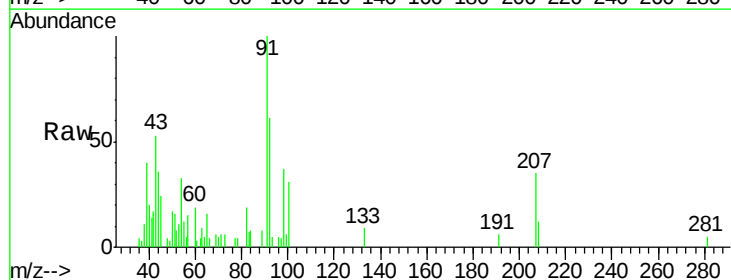
Instrument :
 MSVOA_X
 ClientSampleId :
 PB128866ZHE#02

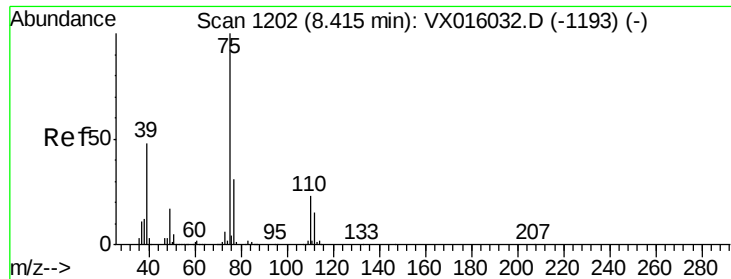
Tgt Ion: 43 Resp: 67836
 Ion Ratio Lower Upper
 43 100
 58 11.4 33.0 49.4#



#52
 Toluene
 Concen: 0.20 ug/l
 RT: 8.77 min Scan# 1260
 Delta R.T. -0.00 min
 Lab File: VX016254.D
 Acq: 15 May 2020 01:04

Tgt Ion: 92 Resp: 1521
 Ion Ratio Lower Upper
 92 100
 91 165.5 134.5 201.7





#54

cis-1,3-Dichloropropene

Concen: 6.53 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

Instrument :

MSVOA_X

ClientSampleId :

PB128866ZHE#02

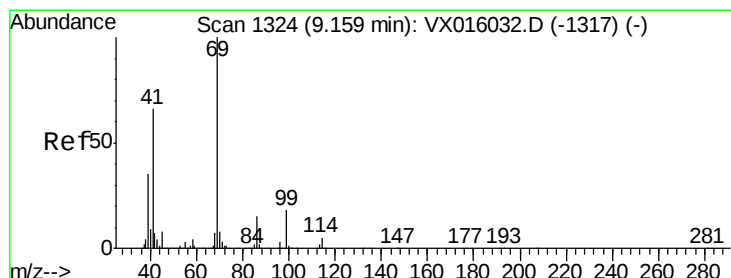
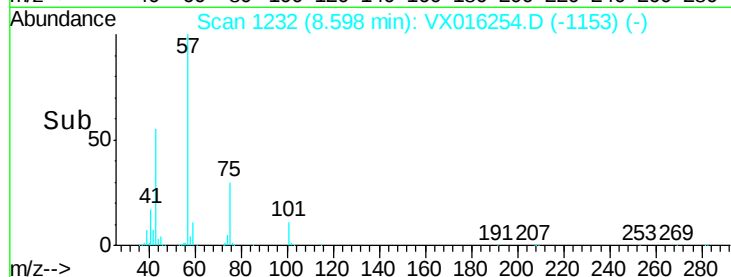
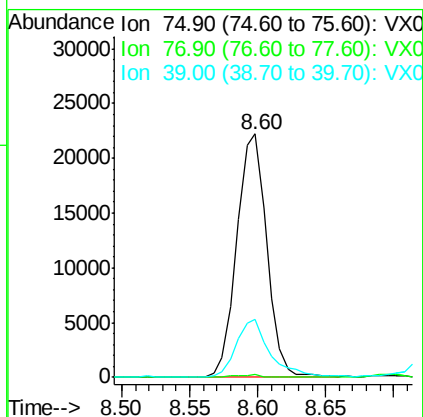
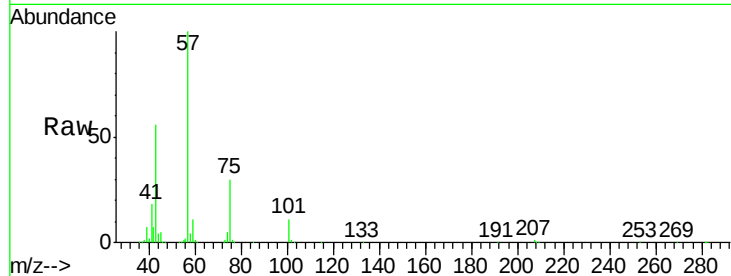
Tgt Ion: 75 Resp: 34212

Ion Ratio Lower Upper

75 100

77 1.0 24.7 37.1#

39 23.6 38.7 58.1#



#56

Ethyl methacrylate

Concen: 0.21 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

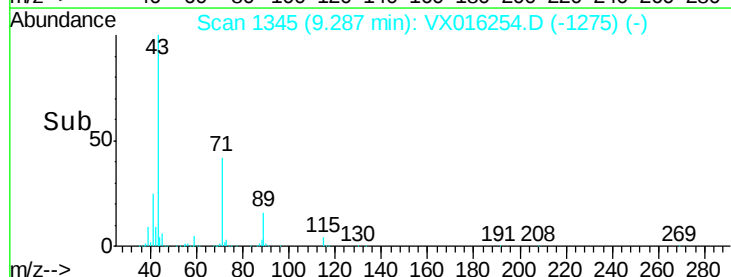
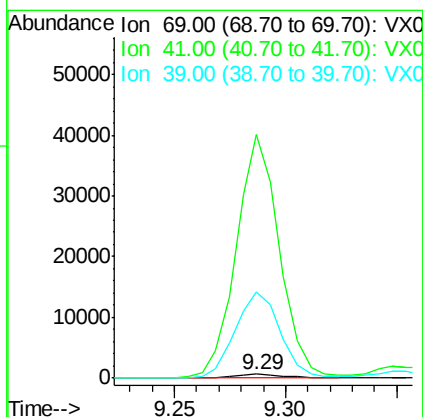
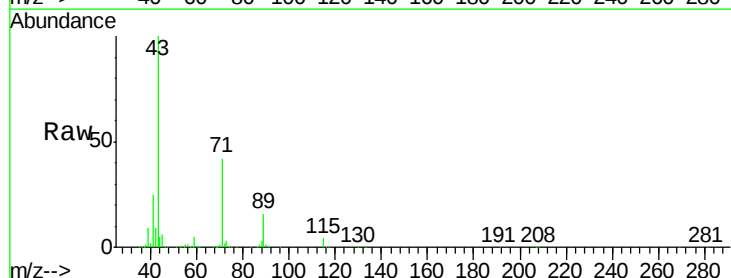
Tgt Ion: 69 Resp: 1008

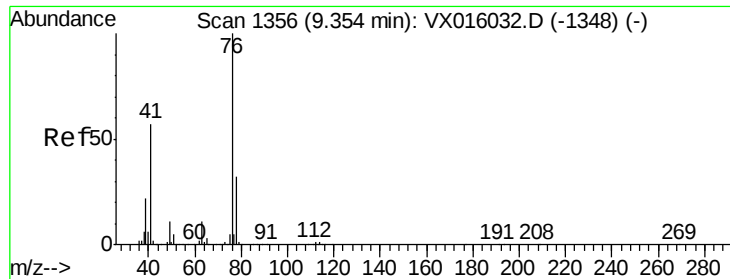
Ion Ratio Lower Upper

69 100

41 5340.7 52.2 78.4#

39 2010.7 28.2 42.4#





#57

1,3-Dichloropropane

Concen: 1.19 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016254.D

Acq: 15 May 2020 01:04

Instrument :

MSVOA_X

ClientSampleId :

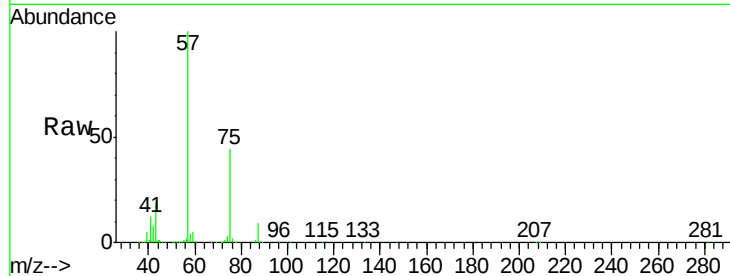
PB128866ZHE#02

Tgt Ion: 76 Resp: 6128

Ion Ratio Lower Upper

76 100

78 2.2 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.52

5000

4000

3000

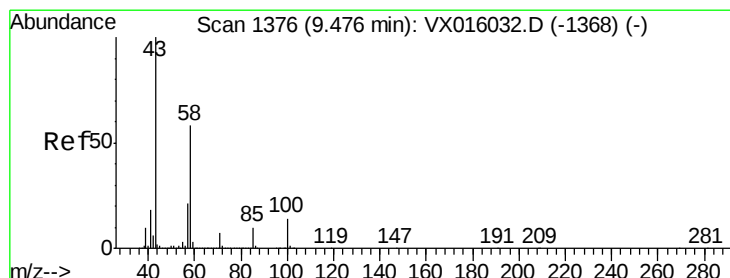
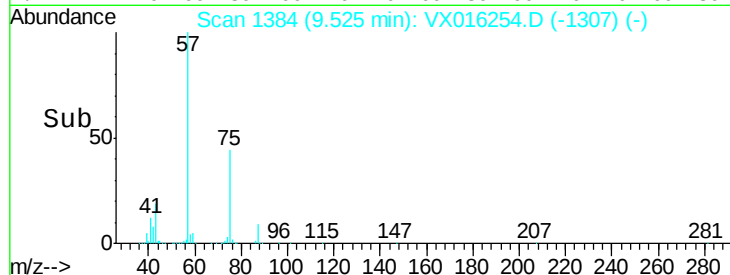
2000

1000

0

9.45 9.50 9.55 9.60

Time-->



#59

2-Hexanone

Concen: 19.65 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016254.D

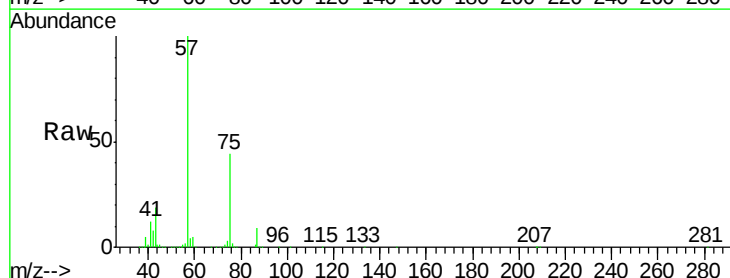
Acq: 15 May 2020 01:04

Tgt Ion: 43 Resp: 71732

Ion Ratio Lower Upper

43 100

58 20.6 28.6 85.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.52

60000

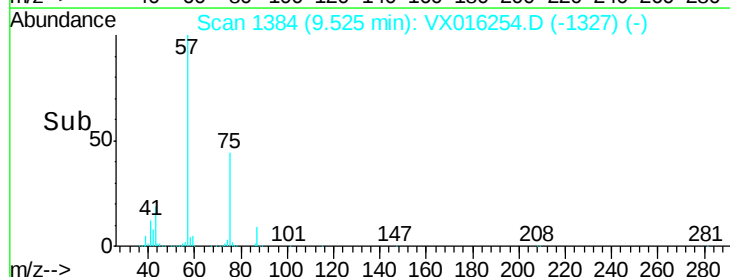
40000

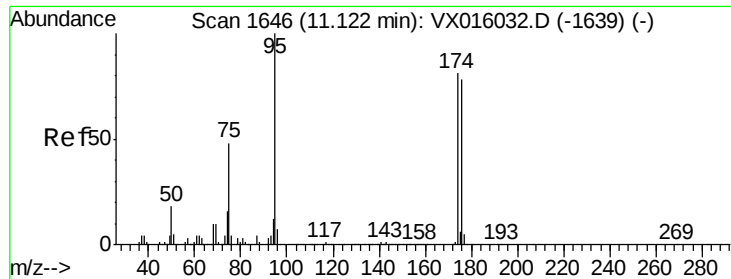
20000

0

9.50 9.55

Time-->

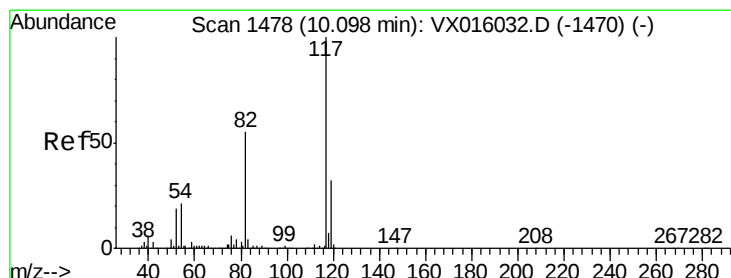
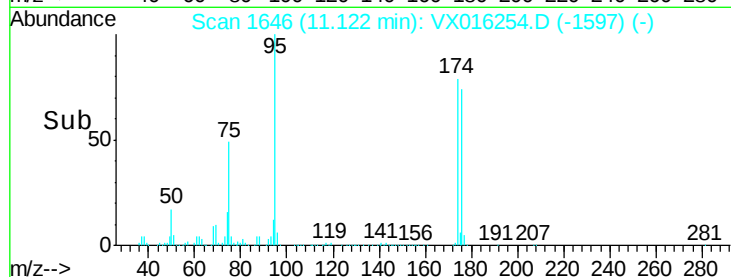
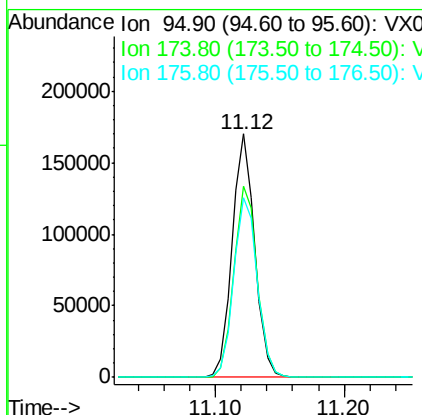
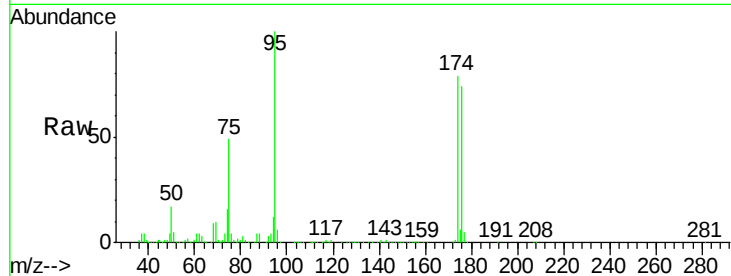




#62
4-Bromofluorobenzene
Concen: 53.60 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016254.D
Acq: 15 May 2020 01:04

Instrument :
MSVOA_X
ClientSampleId :
PB128866ZHE#02

Tgt Ion: 95 Resp: 207710
Ion Ratio Lower Upper
95 100
174 80.9 0.0 159.4
176 77.2 0.0 157.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016254.D
Acq: 15 May 2020 01:04

Tgt Ion: 117 Resp: 407801
Ion Ratio Lower Upper
117 100
82 55.6 44.4 66.6
119 30.1 25.5 38.3

