

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090120\
 Data File : VX018199.D
 Acq On : 01 Sep 2020 17:57
 Operator : JC/SP
 Sample : PB131314ZHE#15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131314ZHE#15

Quant Time: Sep 02 02:52:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	418370	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	689748	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	685540	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	298362	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	312417	53.79	ug/l	0.00
Spiked Amount			Recovery	=	107.58%	
35) Dibromofluoromethane	5.46	113	240070	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
50) Toluene-d8	8.70	98	890437	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	11.12	95	318600	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	

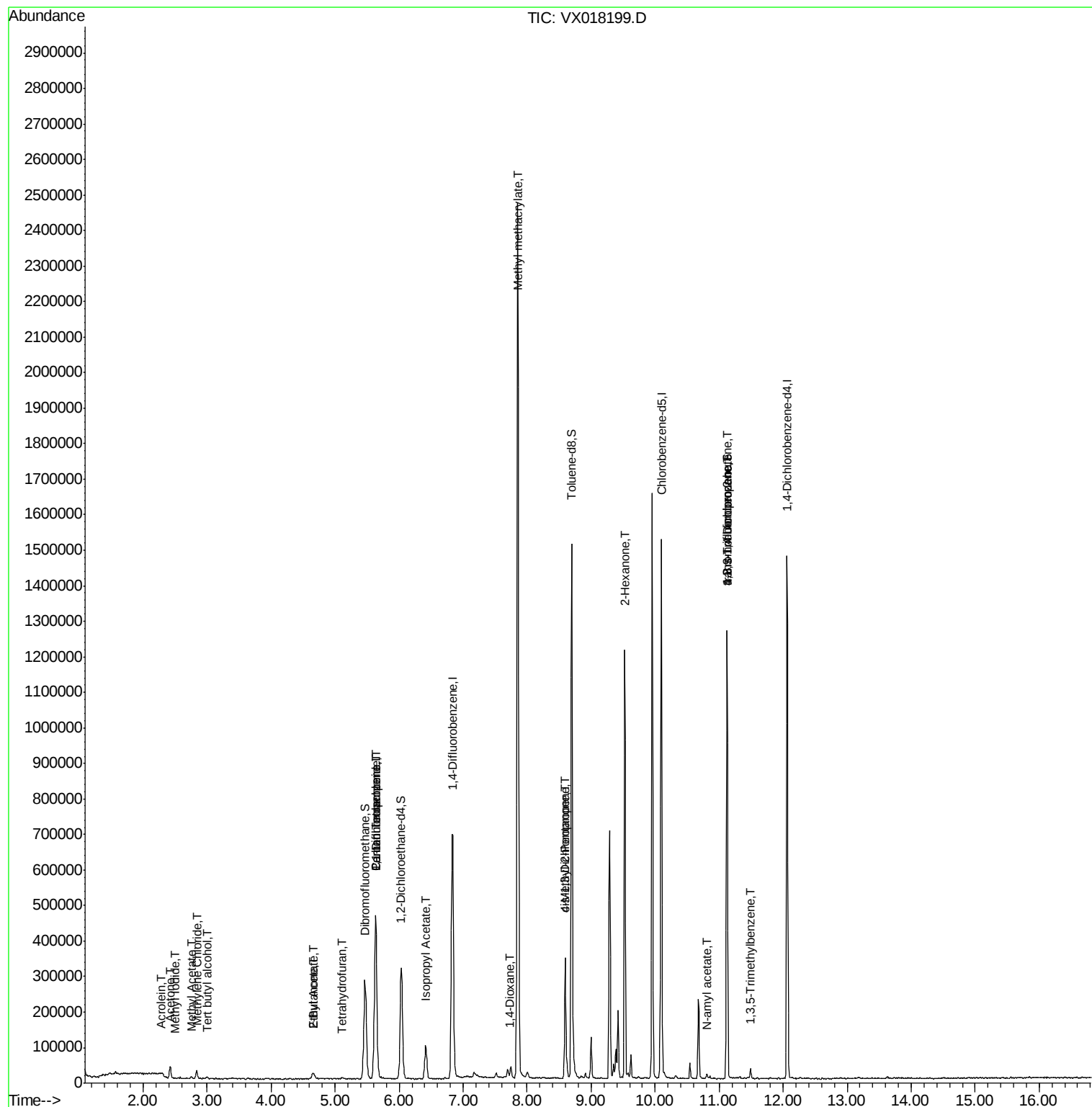
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.51	142	264	5.343	ug/l #	71
11) Tert butyl alcohol	3.00	59	2357	2.087	ug/l #	71
13) Acrolein	2.28	56	304	0.649	ug/l #	1
16) Acetone	2.42	43	34844	15.396	ug/l	92
18) Methyl Acetate	2.76	43	7713	1.412	ug/l #	82
20) Methylene Chloride	2.84	84	10800	1.194	ug/l	93
25) 2-Butanone	4.65	43	10465	2.814	ug/l	96
29) Tetrahydrofuran	5.10	42	3157	1.333	ug/l #	74
36) 1,1-Dichloropropene	5.63	75	32995	5.186	ug/l #	52
37) Ethyl Acetate	4.65	43	10465	1.416	ug/l #	85
38) Carbon Tetrachloride	5.63	117	43839	6.115	ug/l #	18
43) Isopropyl Acetate	6.42	43	125748	10.537	ug/l	99
48) Methyl methacrylate	7.85	41	212127	35.705	ug/l #	45
49) 1,4-Dioxane	7.73	88	412	3.828	ug/l #	23
51) 4-Methyl-2-Pentanone	8.60	43	130145	17.654	ug/l #	48
54) cis-1,3-Dichloropropene	8.60	75	51771	6.233	ug/l #	62
59) 2-Hexanone	9.52	43	137423	24.515	ug/l #	52
74) N-amyl acetate	10.81	43	5878	0.629	ug/l #	55
76) 1,2,3-Trichloropropane	11.12	75	163565	24.644	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	12380	0.766	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	163565	66.559	ug/l #	13

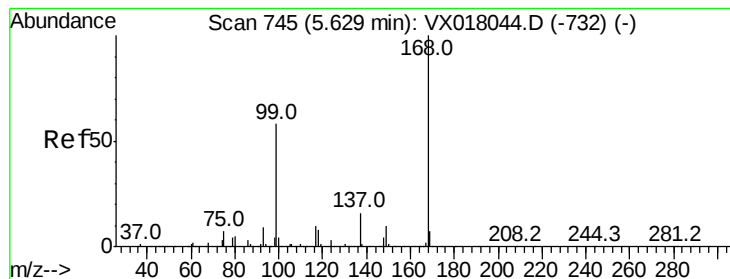
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 02 02:52:45 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

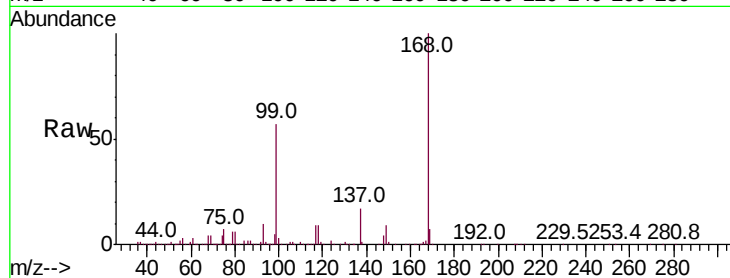
PB131314ZHE#15

Tot Ion:168 Resp: 418370

Ion Ratio Lower Upper

168 100

99 56.7 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

150000

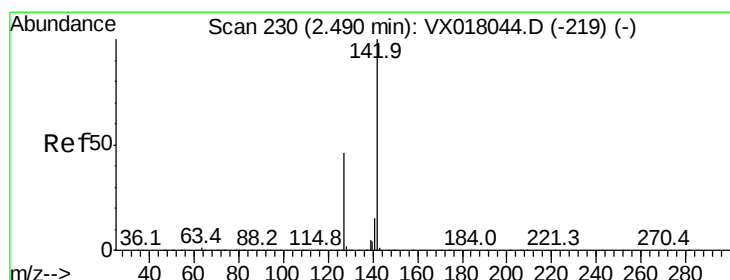
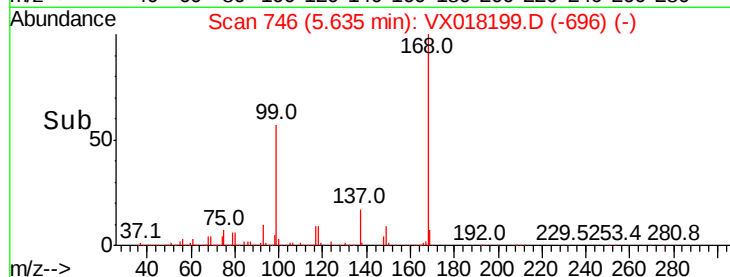
100000

50000

0

Time-->

5.50 5.60 5.70



#10

Methyl Iodide

Concen: 5.343 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

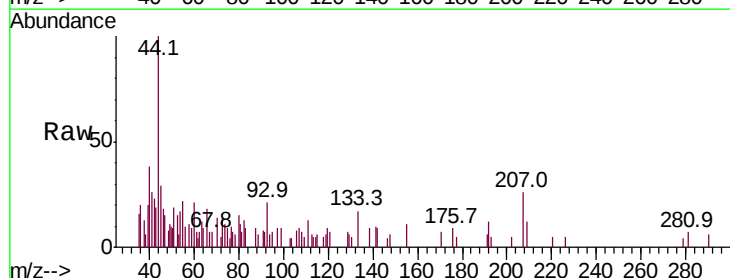
Tgt Ion:142 Resp: 264

Ion Ratio Lower Upper

142 100

127 28.4 37.0 55.6#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.51

300

250

200

150

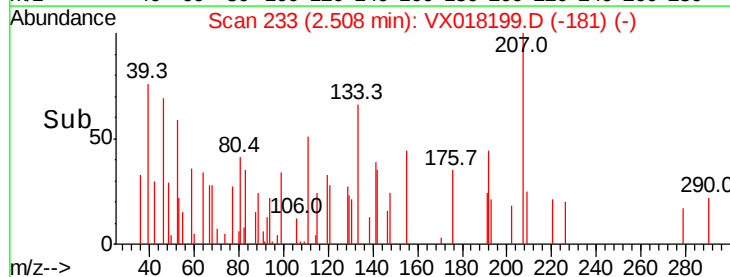
100

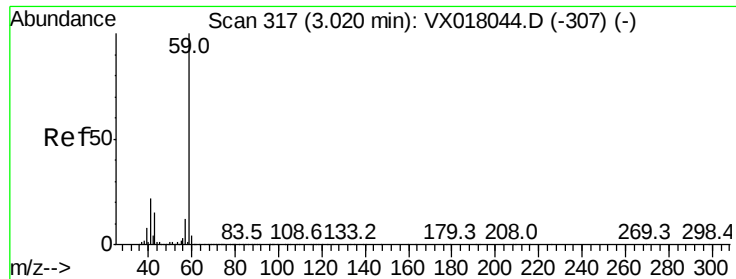
50

0

Time-->

2.46 2.48 2.50 2.52 2.54



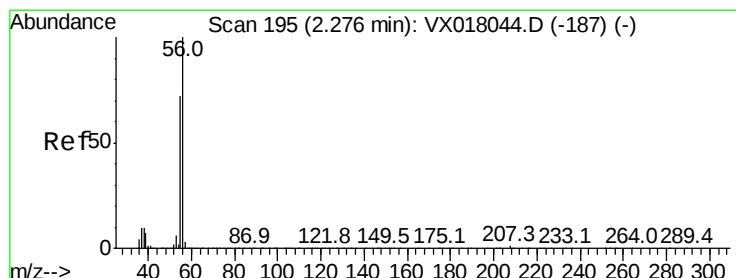
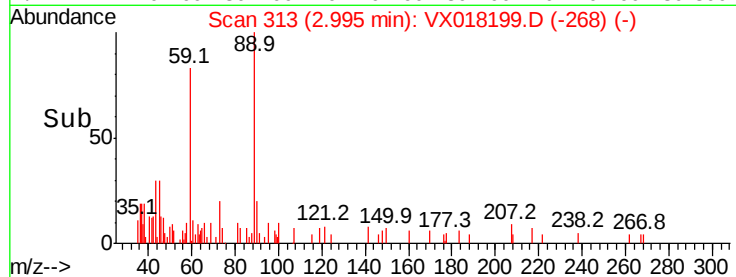
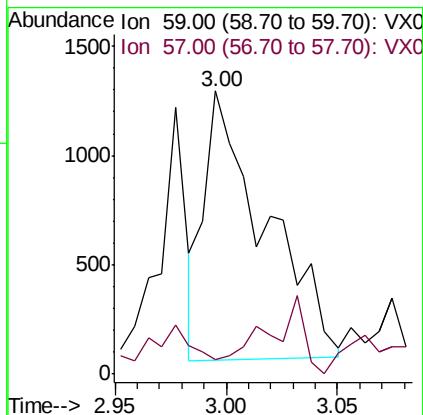
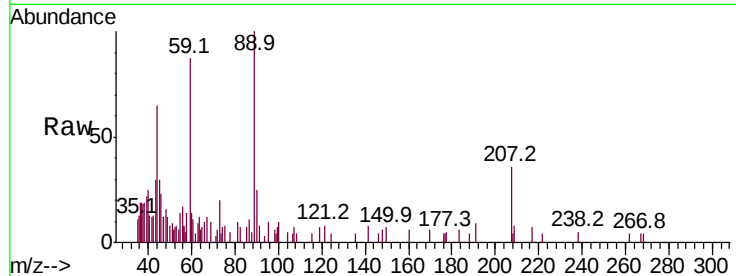


#11

Tert butyl alcohol
Concen: 2.087 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX018199.D
Acq: 01 Sep 2020 17:57

Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#15

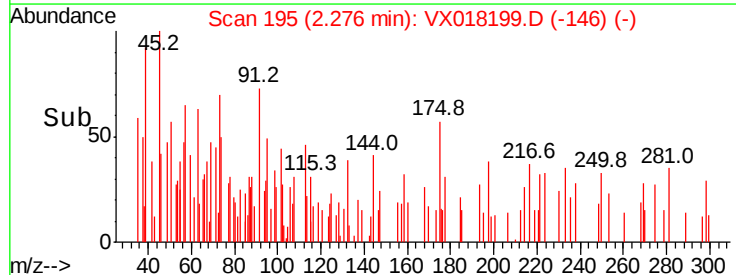
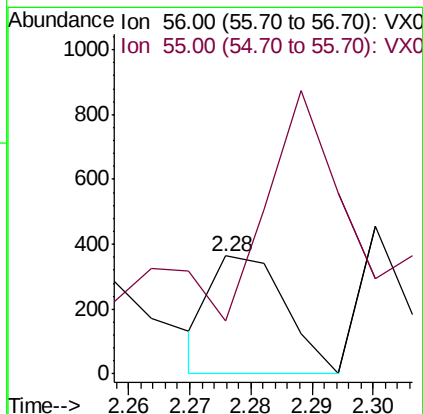
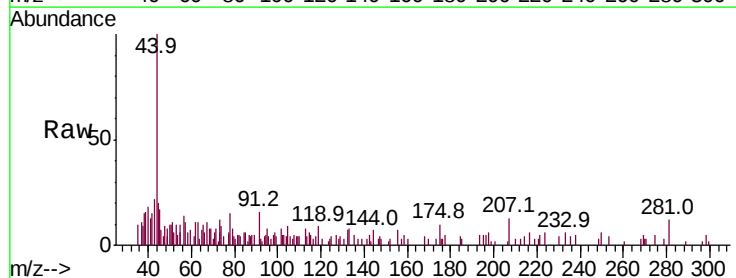
Tot Ion: 59 Resp: 2357
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#

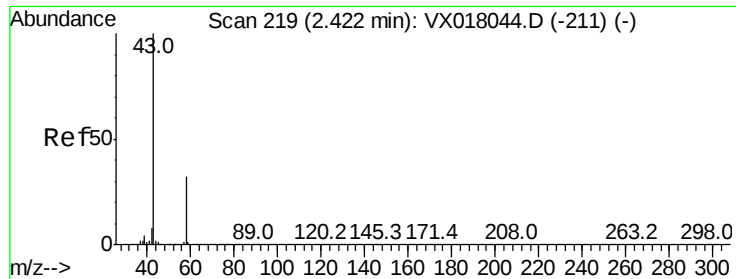


#13

Acrolein
Concen: 0.649 ug/l
RT: 2.28 min Scan# 195
Delta R.T. -0.00 min
Lab File: VX018199.D
Acq: 01 Sep 2020 17:57

Tgt Ion: 56 Resp: 304
Ion Ratio Lower Upper
56 100
55 250.3 57.0 85.6#





#16

Acetone

Concen: 15.396 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

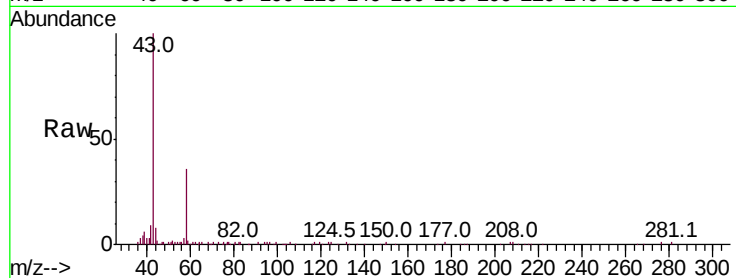
PB131314ZHE#15

Tot Ion: 43 Resp: 34844

Ion Ratio Lower Upper

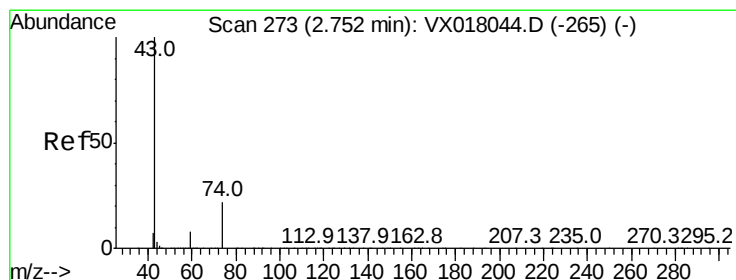
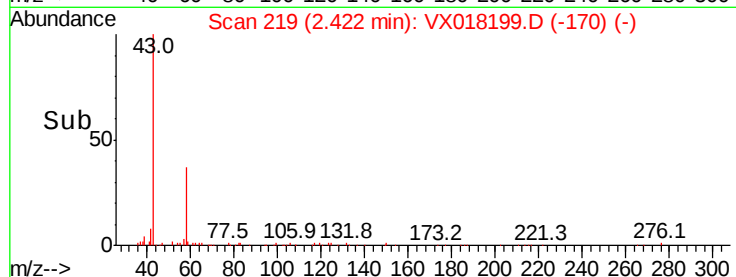
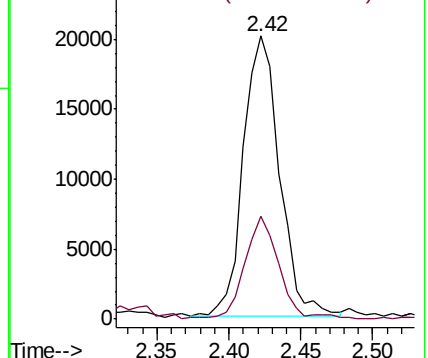
43 100

58 36.4 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.412 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX018199.D

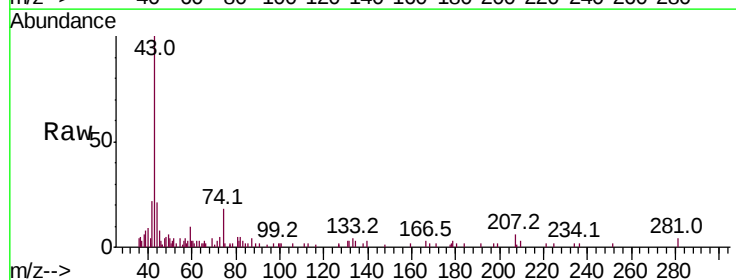
Acq: 01 Sep 2020 17:57

Tgt Ion: 43 Resp: 7713

Ion Ratio Lower Upper

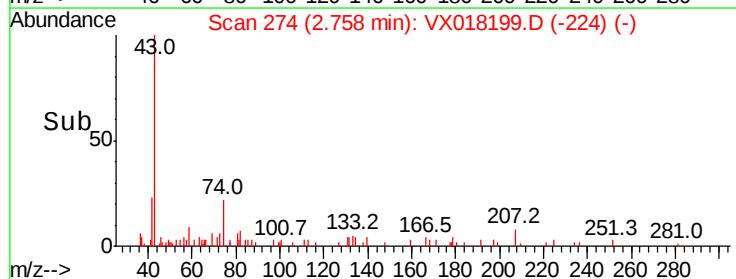
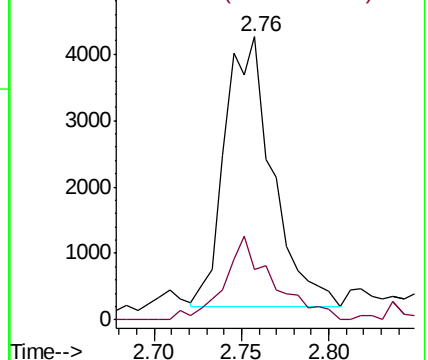
43 100

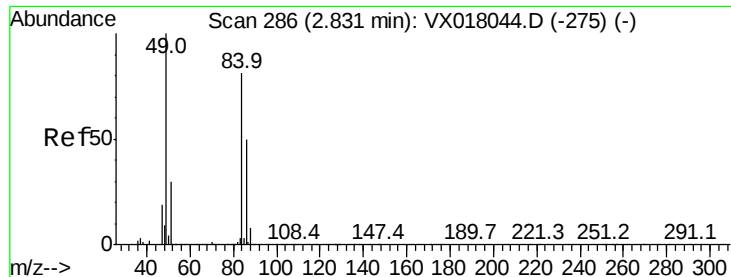
74 31.7 18.2 27.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

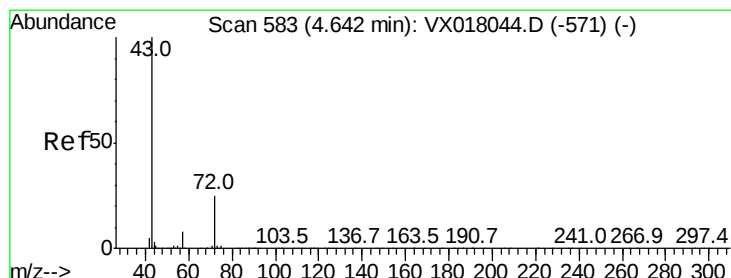
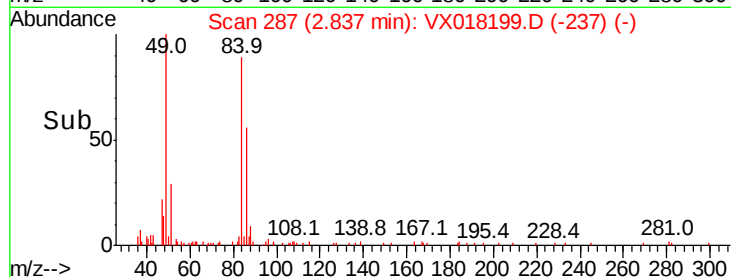
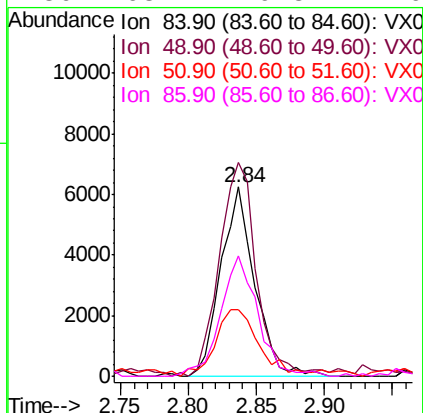
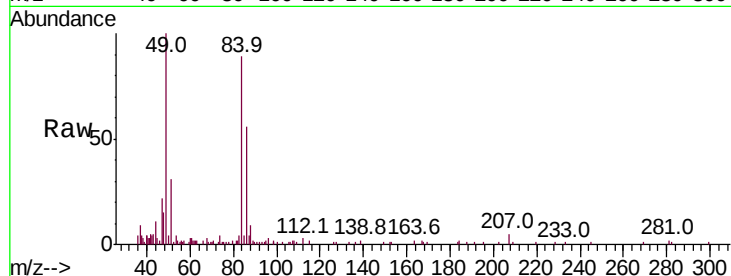




#20
Methvlene Chloride
Concen: 1.194 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018199.D
Acq: 01 Sep 2020 17:57

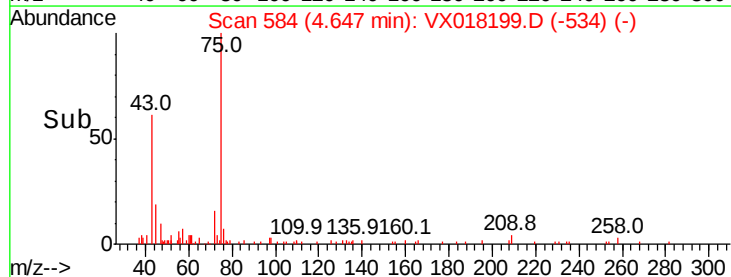
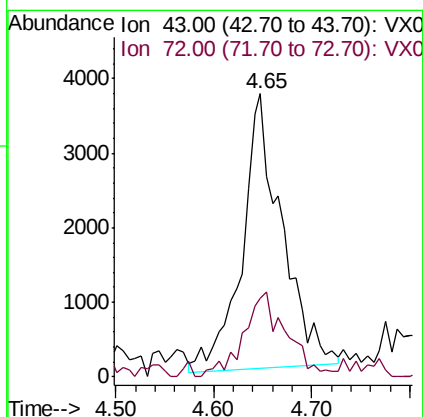
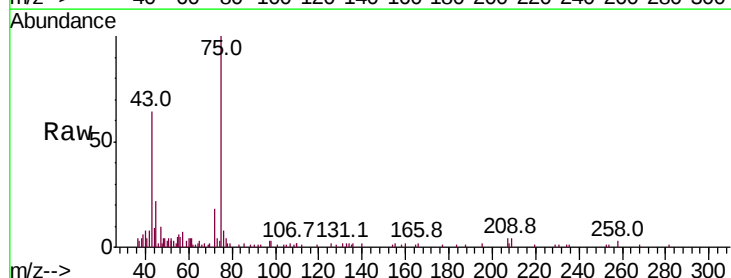
Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#15

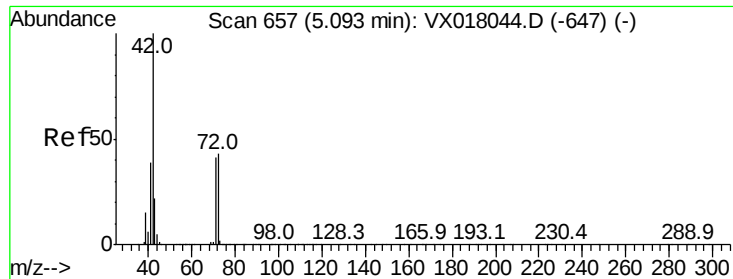
Tot Ion:	84	Resp:	10800
Ion	Ratio	Lower	Upper
84	100		
49	112.9	98.6	148.0
51	32.8	29.6	44.4
86	63.4	49.8	74.6



#25
2-Butanone
Concen: 2.814 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX018199.D
Acq: 01 Sep 2020 17:57

Tgt Ion:	43	Resp:	10465
Ion	Ratio	Lower	Upper
43	100		
72	26.8	19.8	29.6





#29

Tetrahydrofuran

Concen: 1.333 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#15

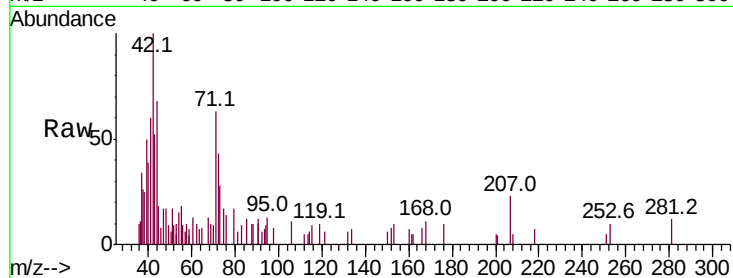
Tot Ion: 42 Resp: 3157

Ion Ratio Lower Upper

42 100

72 34.2 34.2 51.4

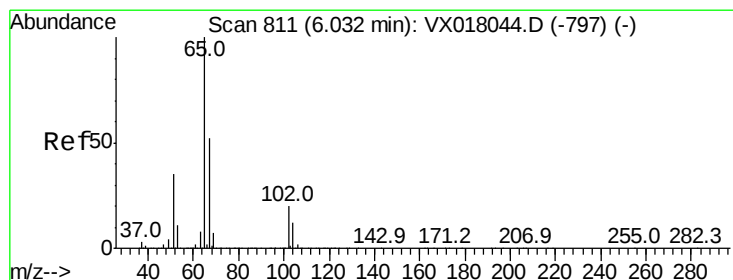
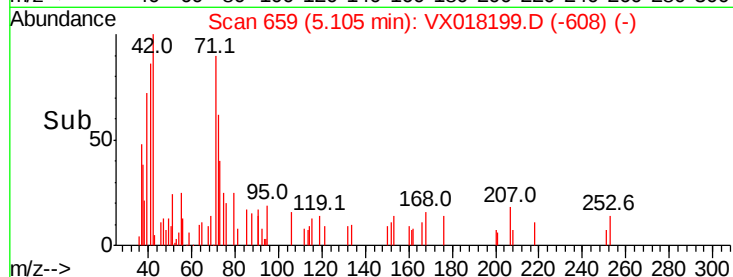
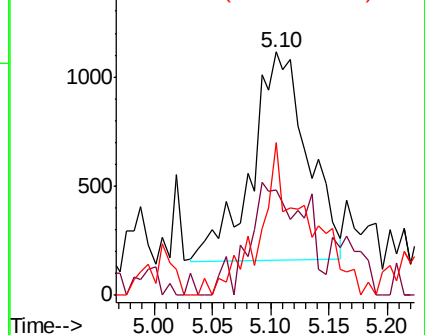
71 63.9 32.1 48.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.790 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX018199.D

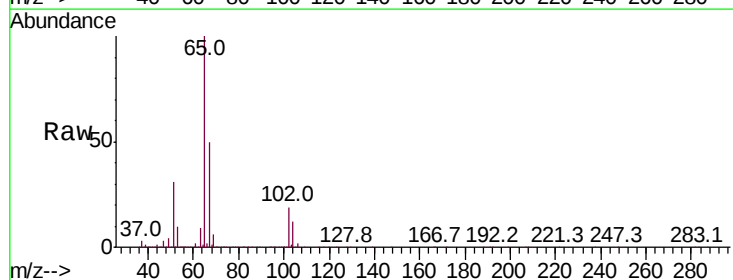
Acq: 01 Sep 2020 17:57

Tgt Ion: 65 Resp: 312417

Ion Ratio Lower Upper

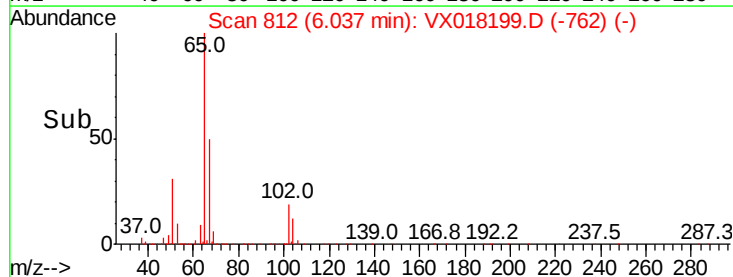
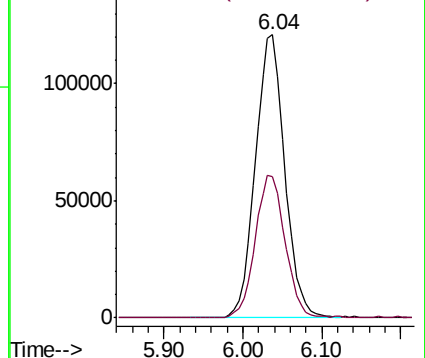
65 100

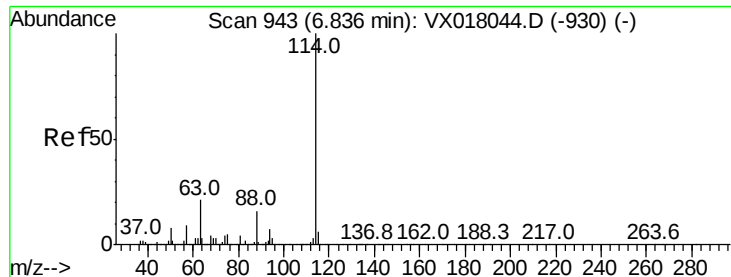
67 51.5 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

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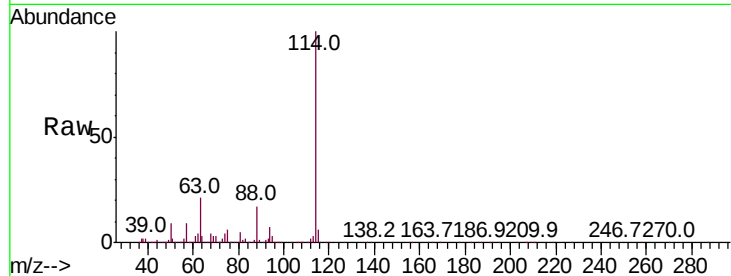
Tot Ion:114 Resp: 689748

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.6

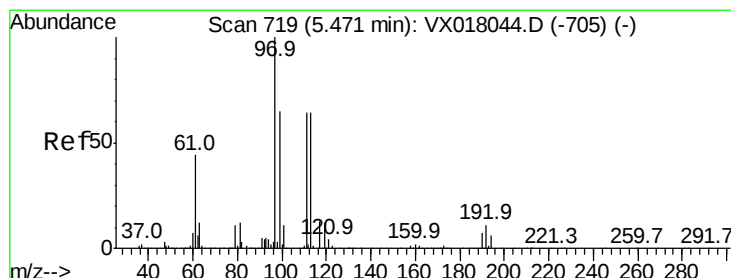
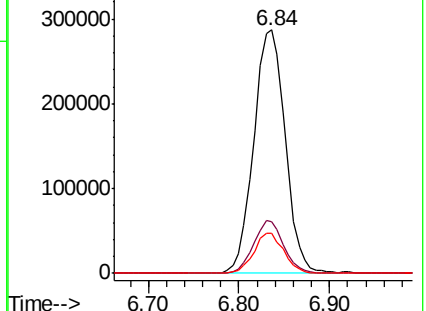
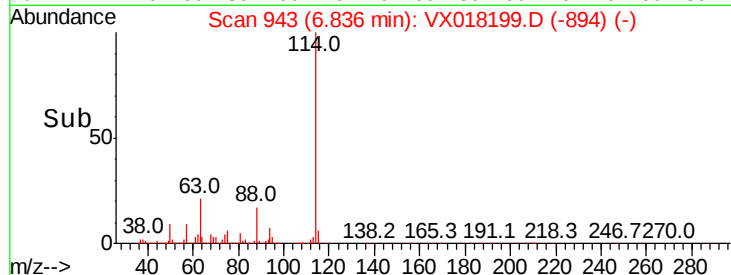
88 16.6 0.0 31.8



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



#35

Dibromofluoromethane

Concen: 51.106 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

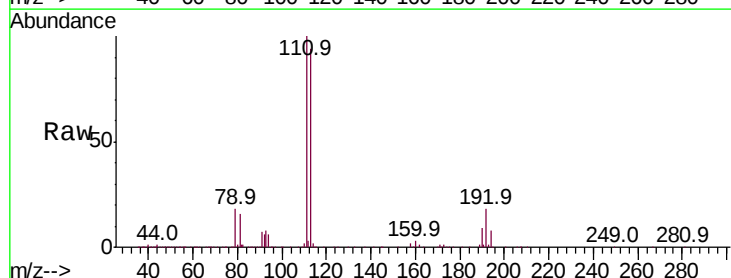
Tgt Ion:113 Resp: 240070

Ion Ratio Lower Upper

113 100

111 104.8 81.6 122.4

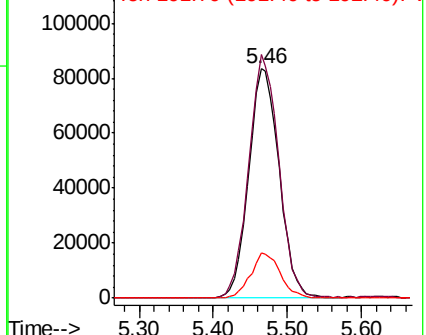
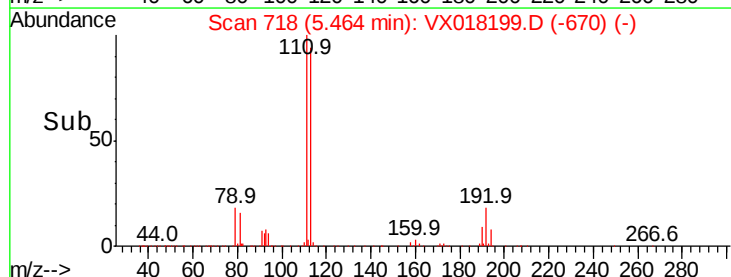
192 19.1 15.8 23.8

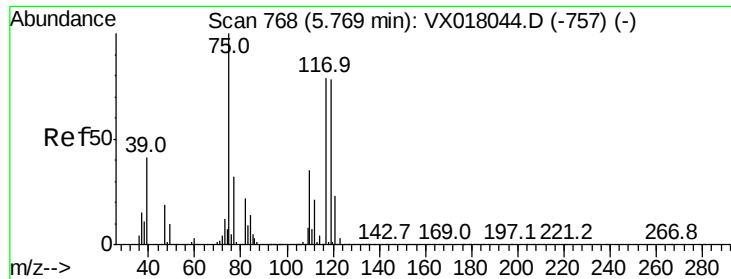


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.186 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

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ClientSampleId :

PB131314ZHE#15

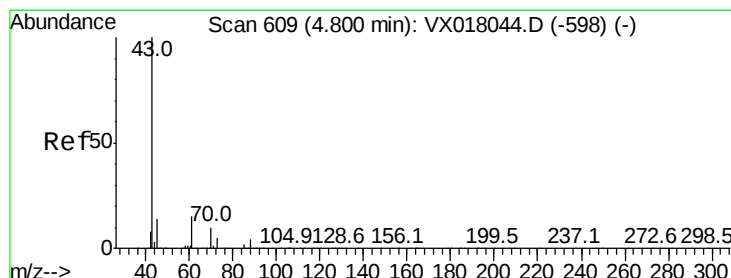
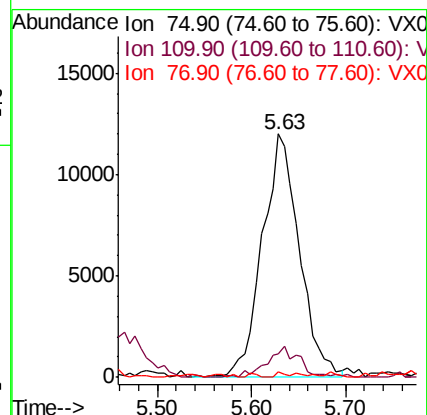
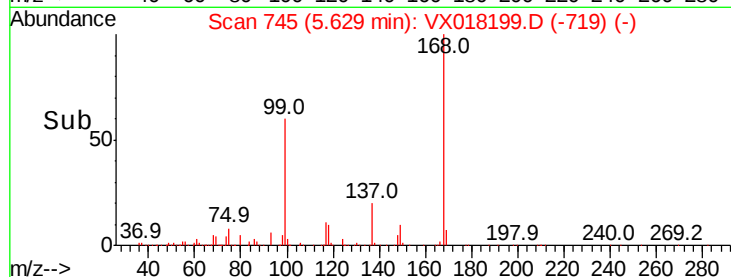
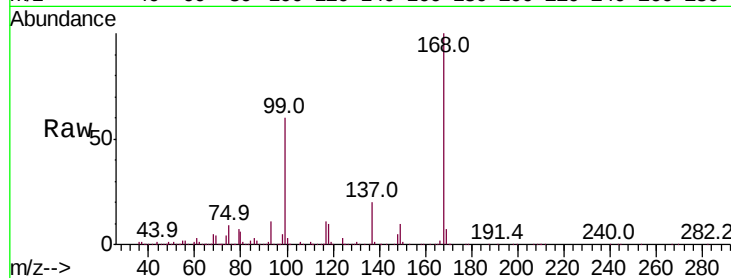
Tot Ion: 75 Resp: 32995

Ion Ratio Lower Upper

75 100

110 11.4 18.0 54.0#

77 0.5 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.416 ug/l

RT: 4.65 min Scan# 584

Delta R.T. -0.15 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

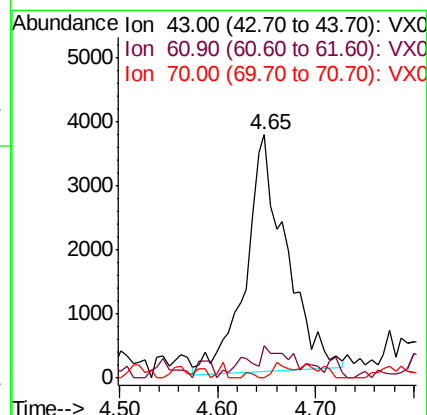
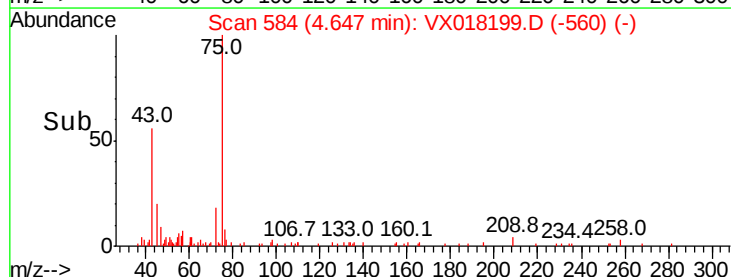
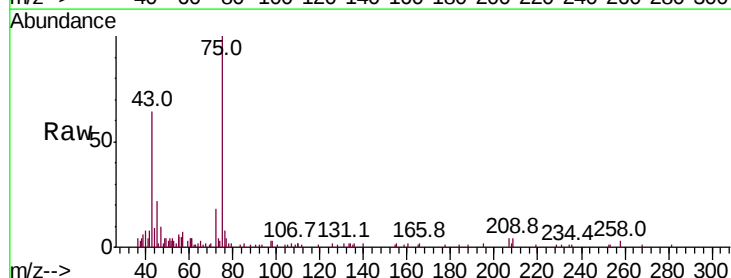
Tgt Ion: 43 Resp: 10465

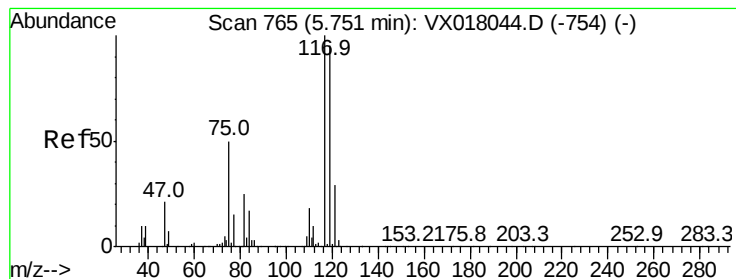
Ion Ratio Lower Upper

43 100

61 9.6 11.3 16.9#

70 2.6 8.2 12.4#





#38

Carbon Tetrachloride

Concen: 6.115 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#15

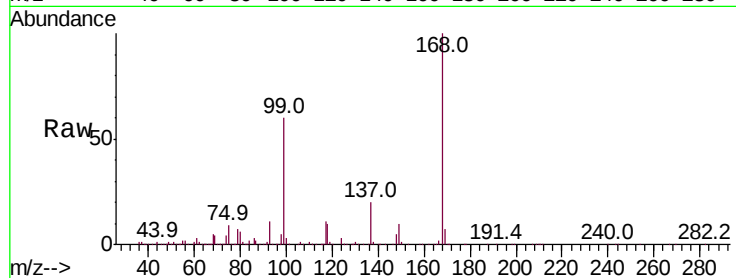
Tot Ion:117 Resp: 43839

Ion Ratio Lower Upper

117 100

119 7.4 75.8 113.6#

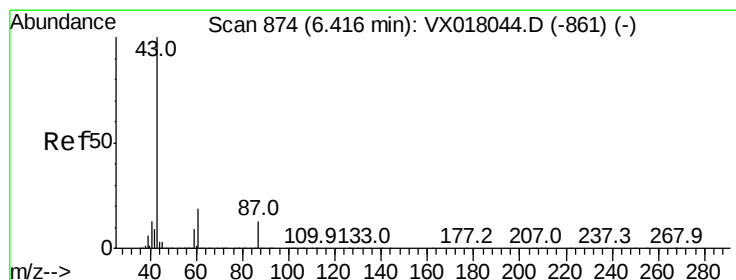
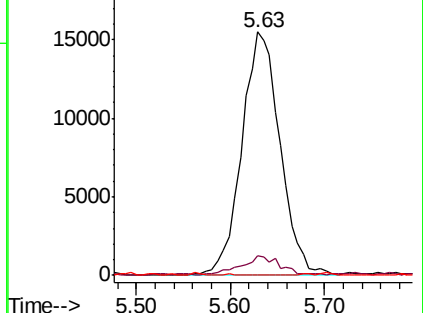
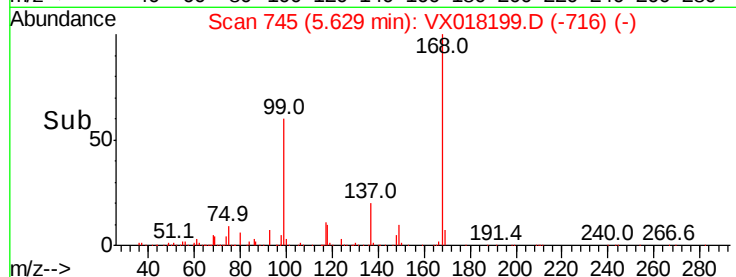
121 0.0 23.4 35.0#



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: 10.537 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

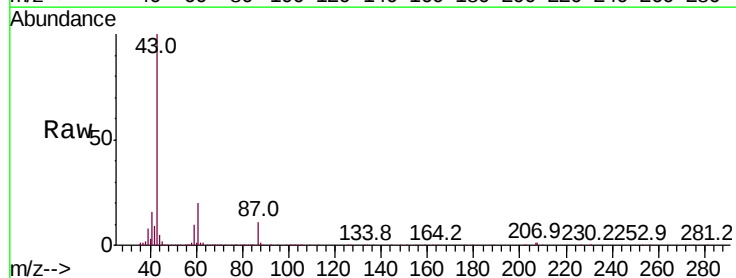
Tgt Ion: 43 Resp: 125748

Ion Ratio Lower Upper

43 100

61 19.1 15.7 23.5

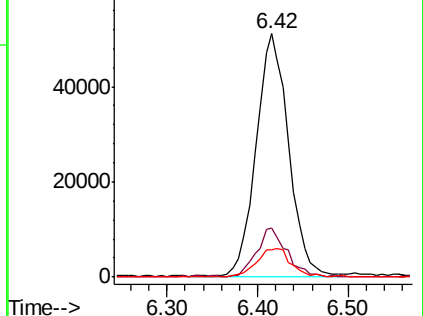
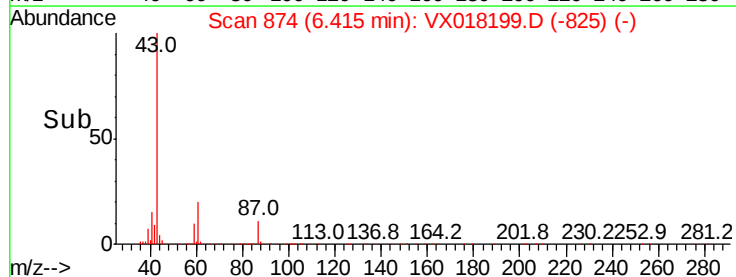
87 12.3 10.3 15.5

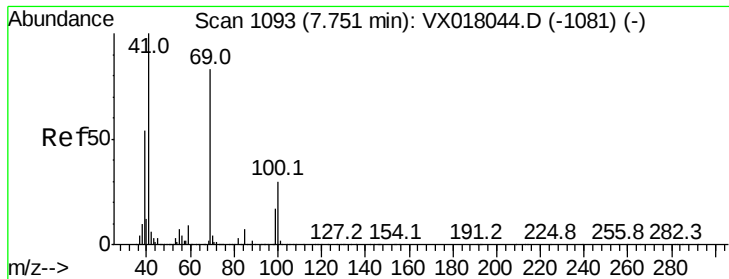


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 35.705 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#15

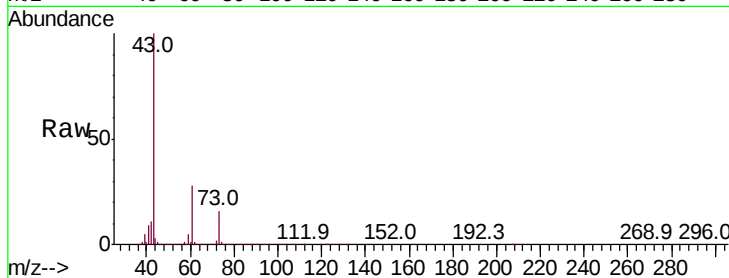
Tot Ion: 41 Resp: 212127

Ion Ratio Lower Upper

41 100

69 0.4 65.5 98.3#

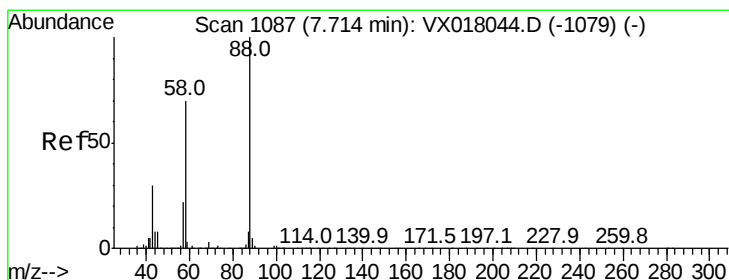
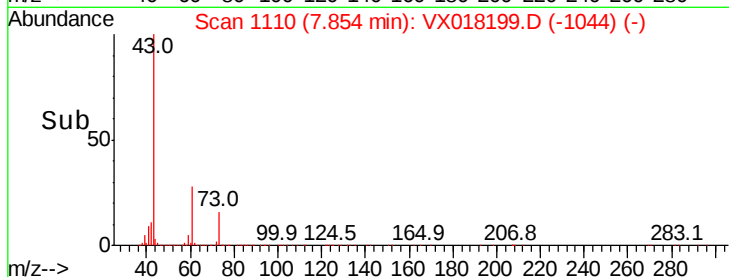
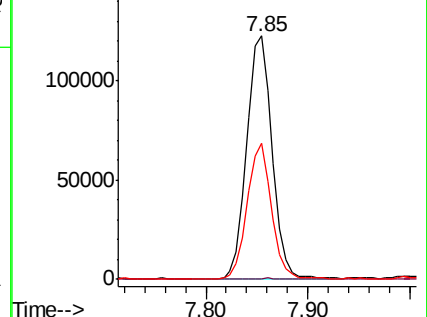
39 53.5 44.5 66.7



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: 3.828 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

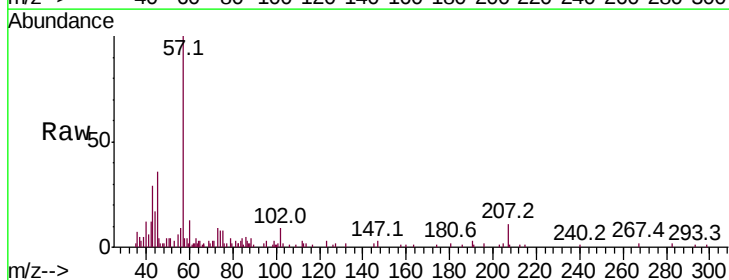
Tgt Ion: 88 Resp: 412

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

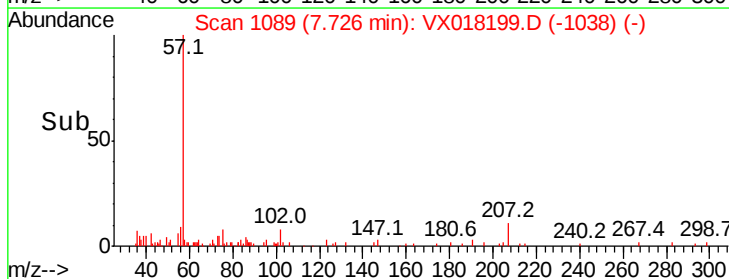
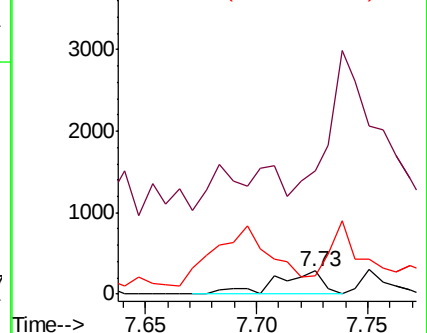
58 0.0 56.4 84.6#

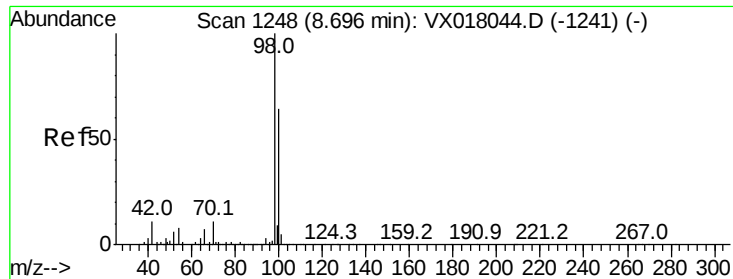


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.893 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

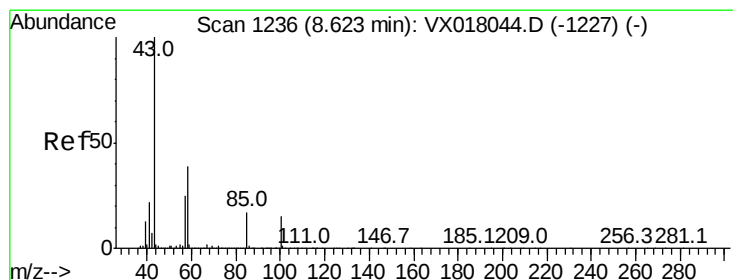
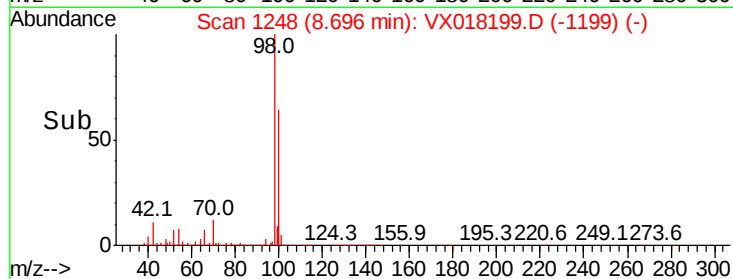
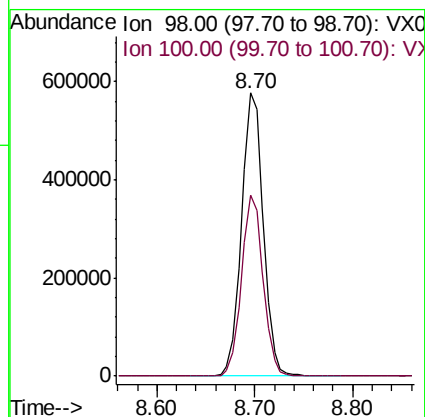
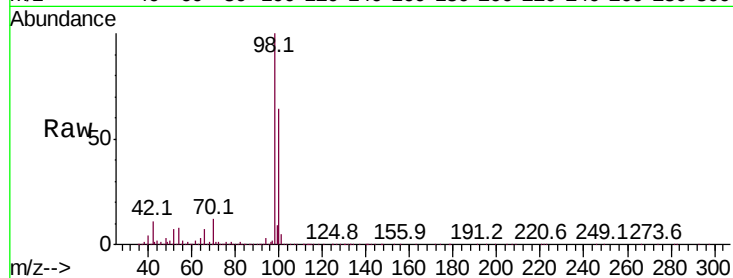
PB131314ZHE#15

Tot Ion: 98 Resp: 890437

Ion Ratio Lower Upper

98 100

100 63.4 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 17.654 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX018199.D

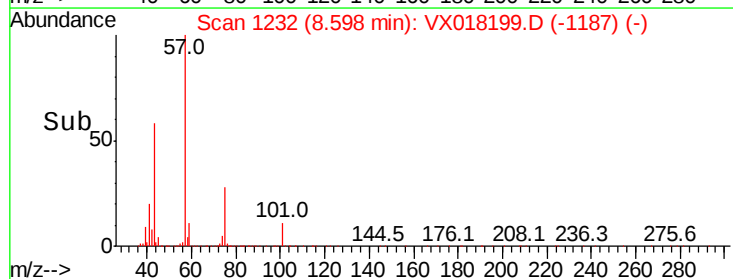
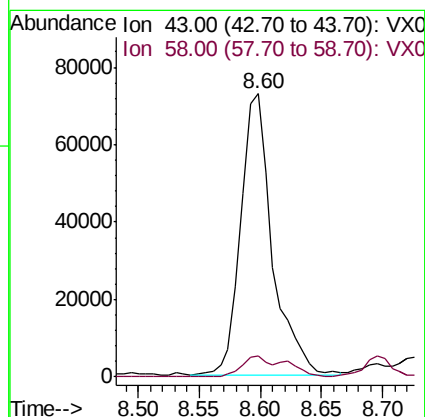
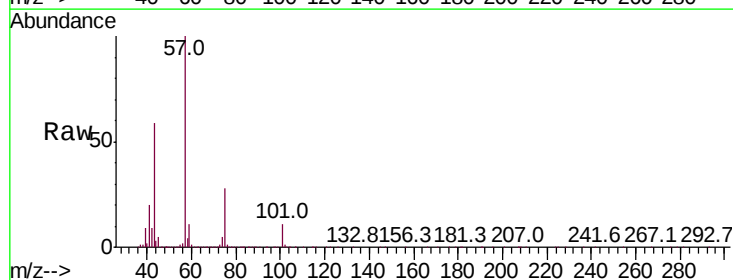
Acq: 01 Sep 2020 17:57

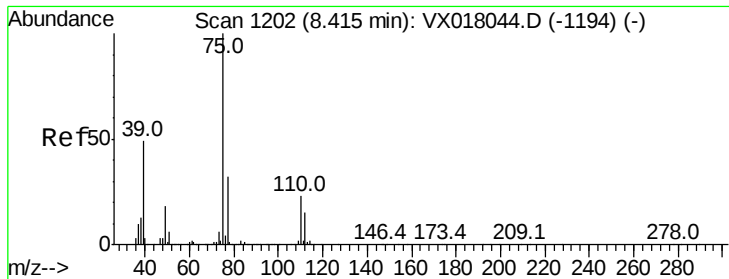
Tgt Ion: 43 Resp: 130145

Ion Ratio Lower Upper

43 100

58 6.6 30.7 46.1#





#54

cis-1,3-Dichloropropene

Concen: 6.233 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#15

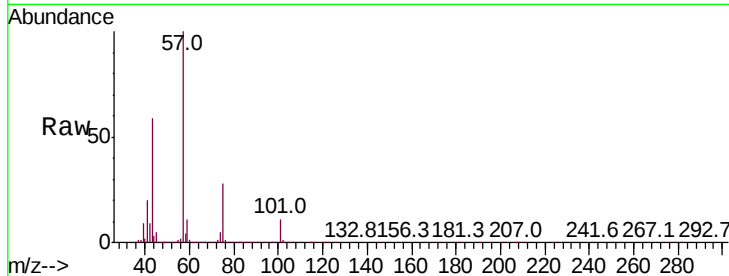
Tot Ion: 75 Resp: 51771

Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.8#

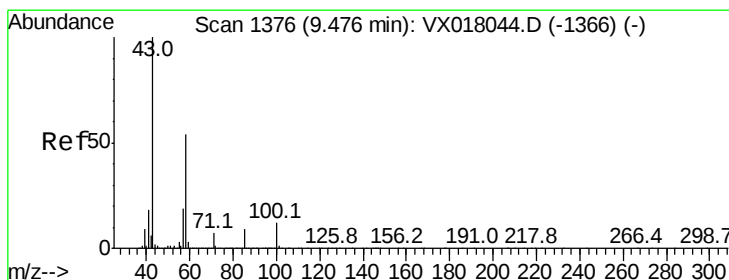
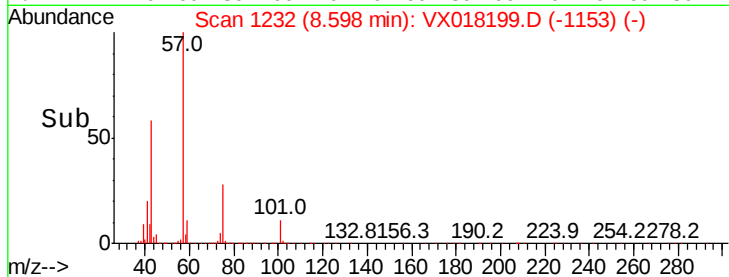
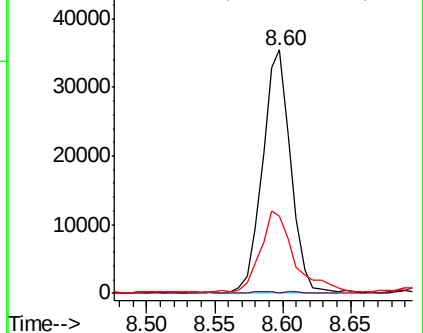
39 30.8 38.8 58.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 24.515 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX018199.D

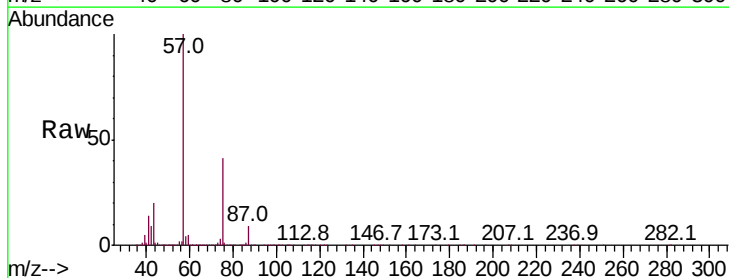
Acq: 01 Sep 2020 17:57

Tgt Ion: 43 Resp: 137423

Ion Ratio Lower Upper

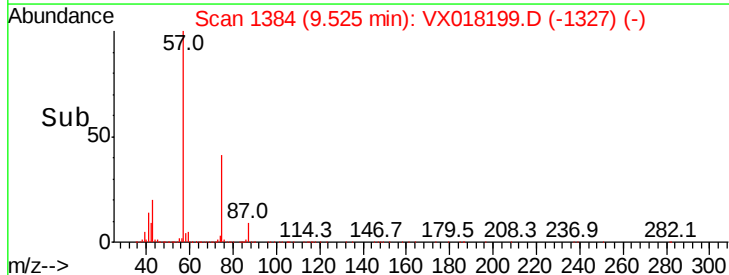
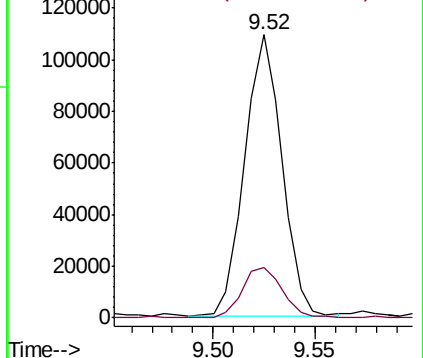
43 100

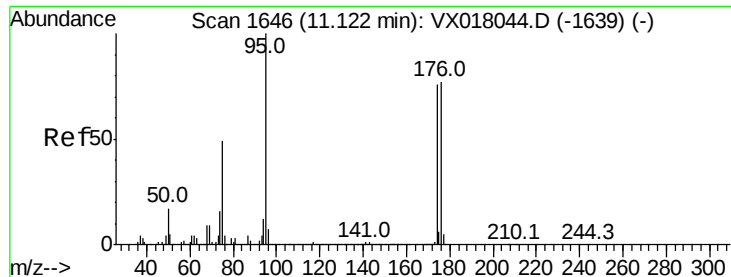
58 18.9 26.6 79.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.283 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#15

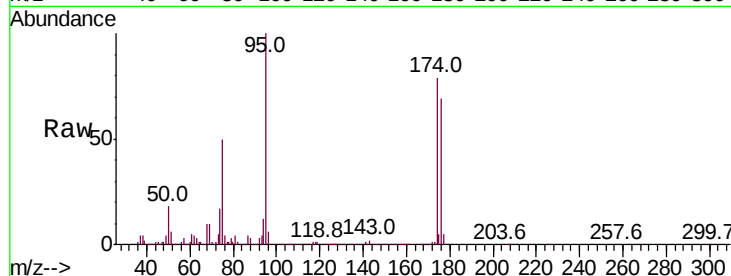
Tot Ion: 95 Resp: 318600

Ion Ratio Lower Upper

95 100

174 82.6 0.0 160.2

176 75.7 0.0 155.8

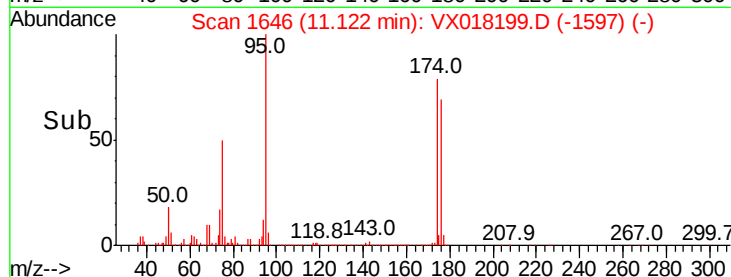


Abundance Ion 94.90 (94.60 to 95.60): VX018044.D (-1639) (-)

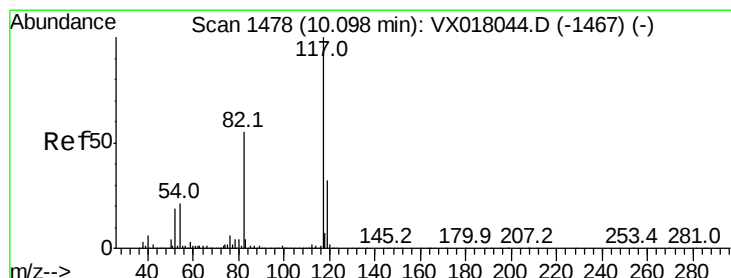
Ion 173.80 (173.50 to 174.50): VX018044.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX018044.D (-1639) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

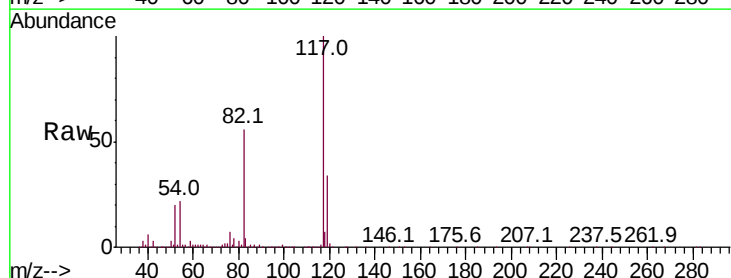
Tgt Ion: 117 Resp: 685540

Ion Ratio Lower Upper

117 100

82 56.0 44.2 66.2

119 33.8 25.7 38.5

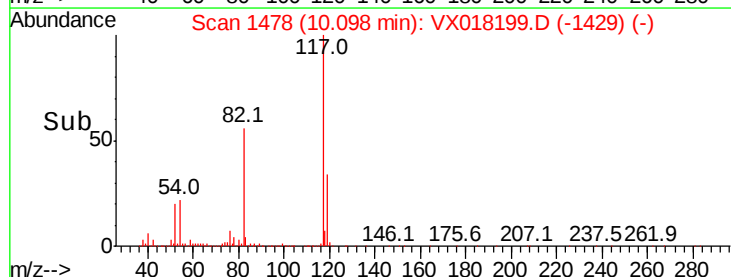


Abundance Ion 116.90 (116.60 to 117.60): VX018044.D (-1467) (-)

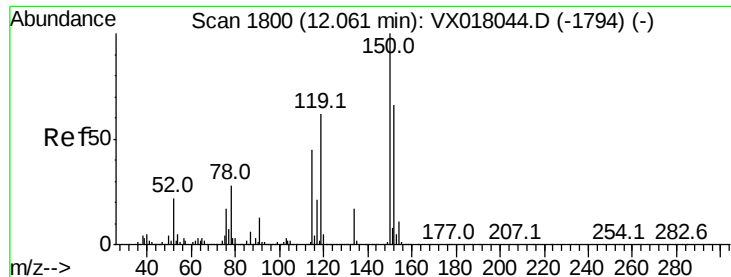
Ion 82.00 (81.70 to 82.70): VX018044.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX018044.D (-1467) (-)

Time-->



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#15

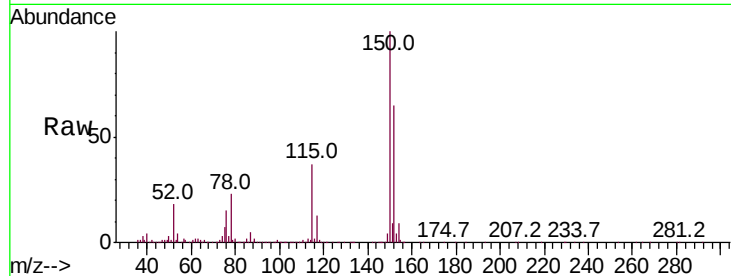
Tot Ion:152 Resp: 298362

Ion Ratio Lower Upper

152 100

115 61.0 41.5 124.5

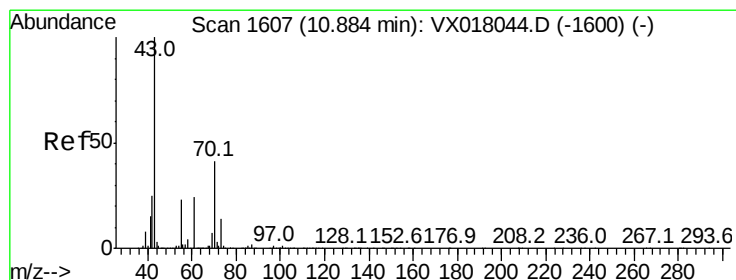
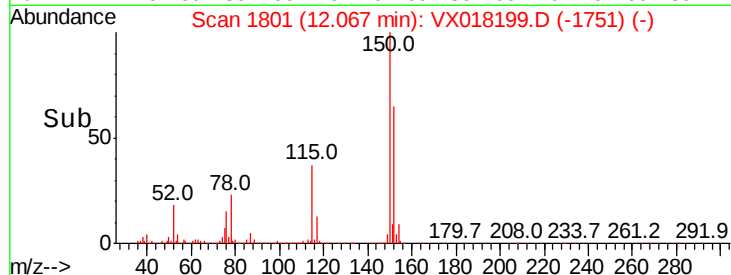
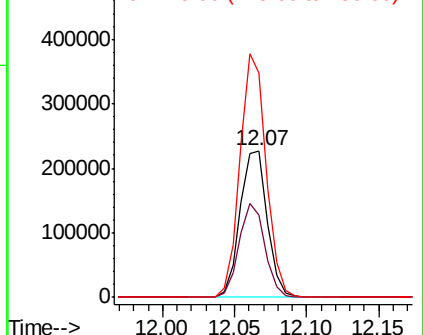
150 159.1 0.0 343.8



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



#74

N-aryl acetate

Concen: 0.629 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Tgt Ion: 43 Resp: 5878

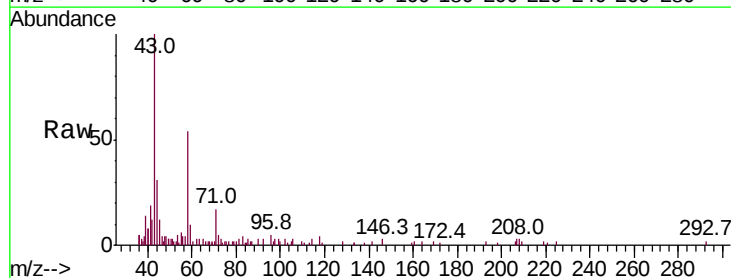
Ion Ratio Lower Upper

43 100

70 3.1 32.3 48.5#

55 14.8 18.2 27.2#

61 0.0 18.9 28.3#

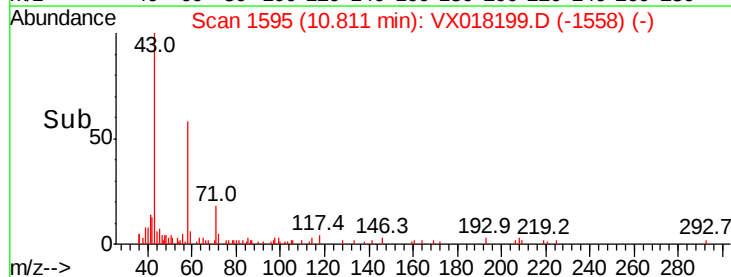
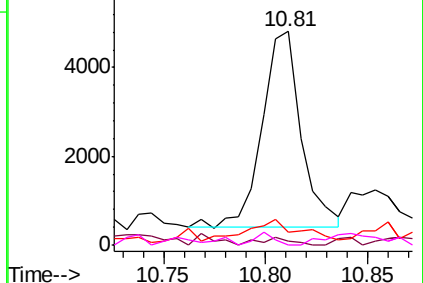


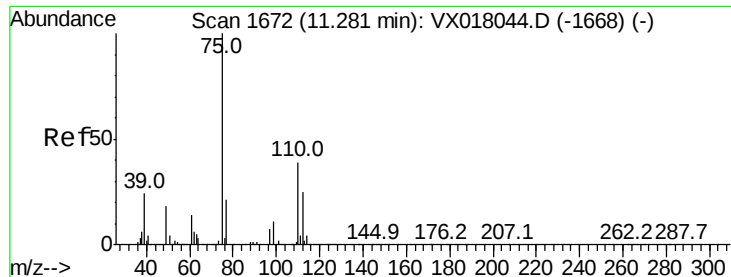
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.644 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

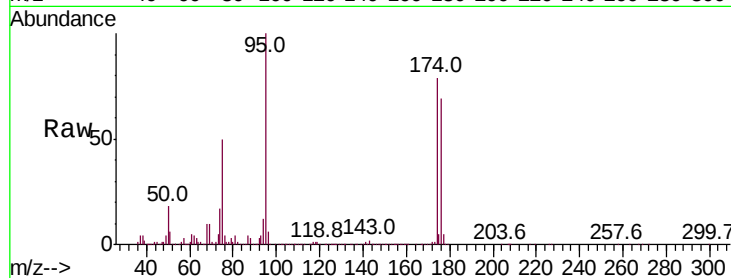
PB131314ZHE#15

Tot Ion: 75 Resp: 163565

Ion Ratio Lower Upper

75 100

77 1.5 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

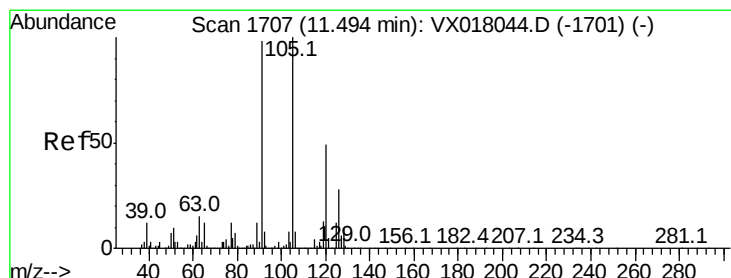
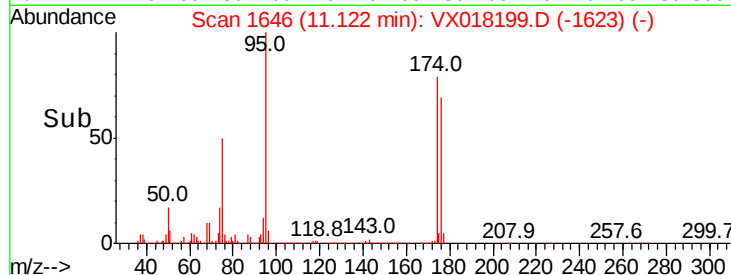
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#80

1,3,5-Trimethylbenzene

Concen: 0.766 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX018199.D

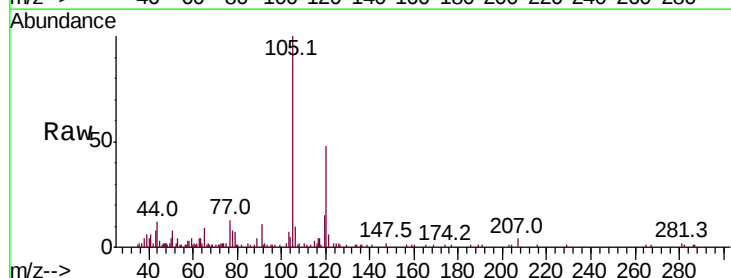
Acq: 01 Sep 2020 17:57

Tgt Ion: 105 Resp: 12380

Ion Ratio Lower Upper

105 100

120 49.7 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.49

10000

8000

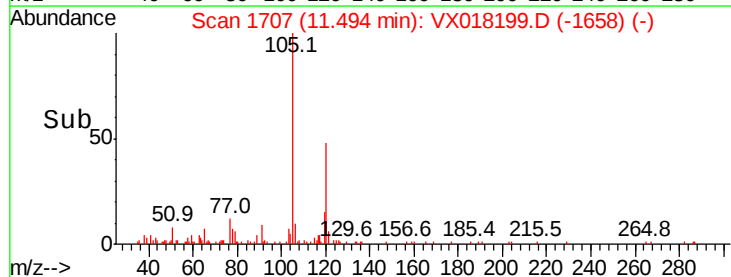
6000

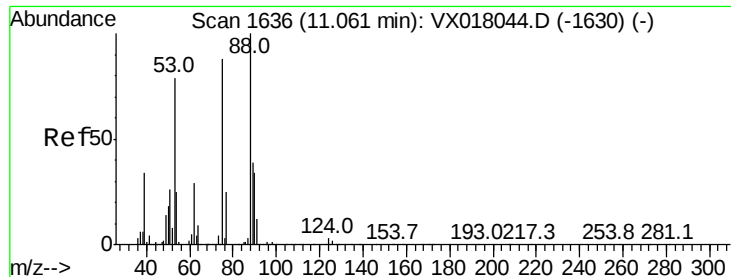
4000

2000

0

Time--> 11.40 11.50





#81

trans-1,4-Dichloro-2-butene

Concen: 66.559 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018199.D

Acq: 01 Sep 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#15

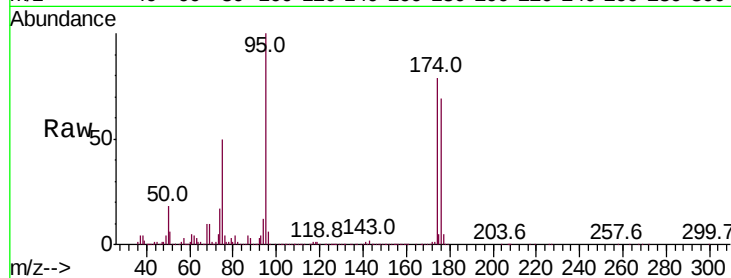
Tot Ion: 75 Resp: 163565

Ion Ratio Lower Upper

75 100

53 0.8 74.7 112.1#

89 0.2 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

