

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019324.D
 Acq On : 05 Nov 2020 19:03
 Operator : JC/MD
 Sample : L4624-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 32733

Quant Time: Nov 06 08:04:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	267207	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	467732	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	455732	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	240158	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	189493	54.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.98%	
35) Dibromofluoromethane	5.47	113	148569	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	
50) Toluene-d8	8.70	98	582492	52.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.18%	
62) 4-Bromofluorobenzene	11.12	95	243221	57.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.98%	

Target Compounds

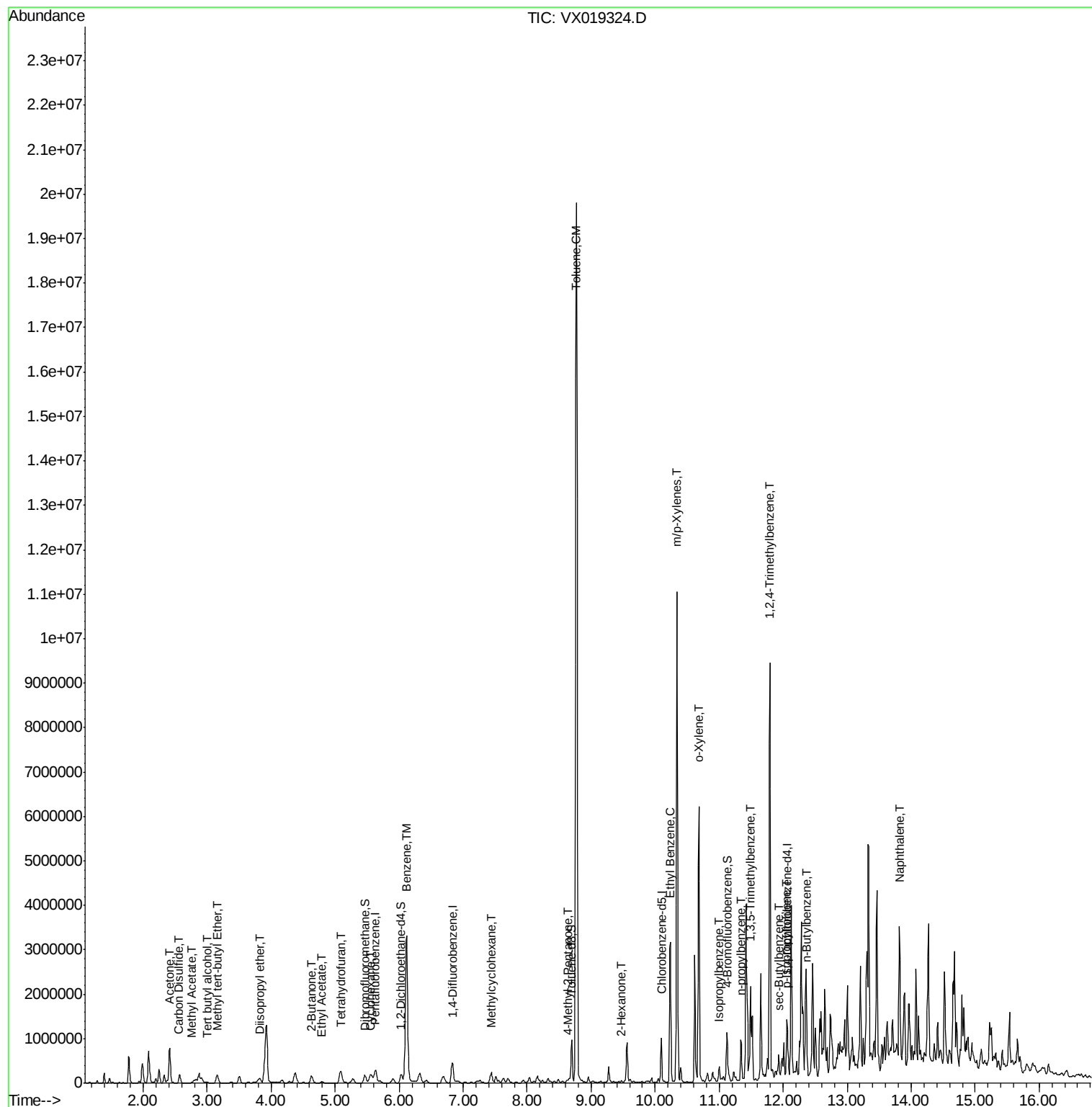
						Qvalue
11) Tert butyl alcohol	3.00	59	20659	30.353	ug/l #	72
16) Acetone	2.42	43	821545	691.070	ug/l	100
17) Carbon Disulfide	2.55	76	3218	1.189	ug/l #	95
18) Methyl Acetate	2.75	43	6690	2.314	ug/l #	86
19) Methyl tert-butyl Ether	3.17	73	78455	8.743	ug/l #	1
22) Diisopropyl ether	3.82	45	95234	12.178	ug/l #	83
25) 2-Butanone	4.63	43	264306	141.072	ug/l	97
29) Tetrahydrofuran	5.09	42	220870	187.067	ug/l	95
31) Cyclohexane	5.55	56	138511	31.798	ug/l	95
37) Ethyl Acetate	4.79	43	53830	13.423	ug/l	100
39) Methylcyclohexane	7.44	83	105011	20.333	ug/l	92
40) Benzene	6.12	78	4030896	329.155	ug/l	99
51) 4-Methyl-2-Pentanone	8.62	43	37721	9.774	ug/l	97
52) Toluene	8.77	92	8397944	1064.743	ug/l	88
59) 2-Hexanone	9.47	43	23867	8.124	ug/l	94
67) Ethyl Benzene	10.24	91	1891587	113.964	ug/l	96
68) m/p-Xylenes	10.34	106	2580211	414.190	ug/l	100
69) o-Xylene	10.68	106	1298588	219.776	ug/l	99
73) Isopropylbenzene	11.00	105	148189	8.717	ug/l	99
78) n-propylbenzene	11.34	91	571359	29.443	ug/l	98
80) 1,3,5-Trimethylbenzene	11.49	105	893093	62.188	ug/l	100
84) 1,2,4-Trimethylbenzene	11.79	105	3923795	270.636	ug/l	100
85) sec-Butylbenzene	11.93	105	157195	9.531	ug/l	87
86) p-Isopropyltoluene	12.05	119	108469	7.126	ug/l	99
89) n-Butylbenzene	12.37	91	383632	26.812	ug/l #	43
95) Naphthalene	13.82	128	1837065	102.926	ug/l	99

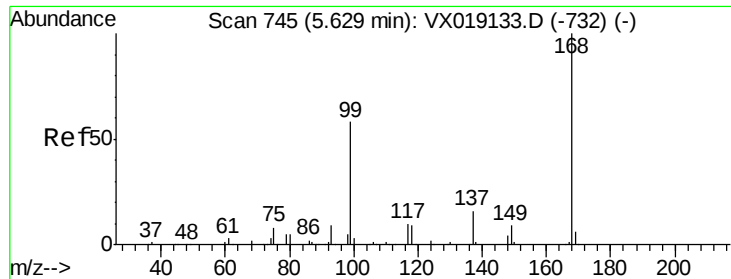
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 27 13:55:07 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

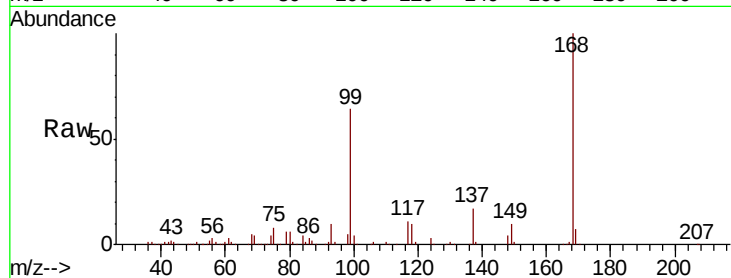
32733

Tot Ion:168 Resp: 267207

Ion Ratio Lower Upper

168 100

99 64.0 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

60000

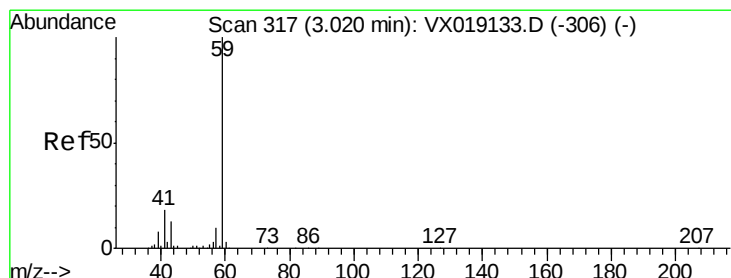
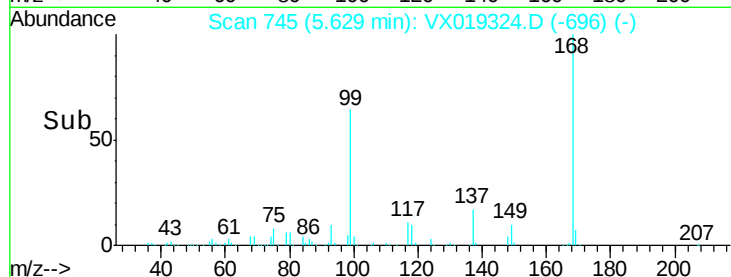
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 30.353 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX019324.D

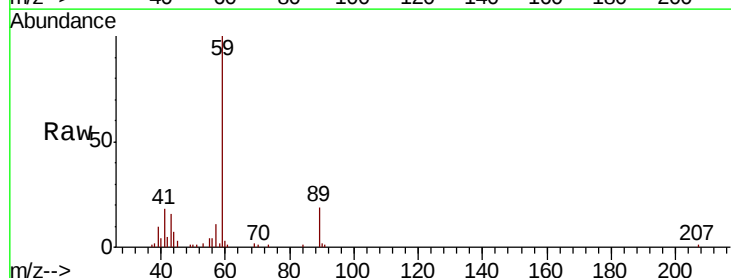
Acq: 05 Nov 2020 19:03

Tgt Ion: 59 Resp: 20659

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

50000

40000

30000

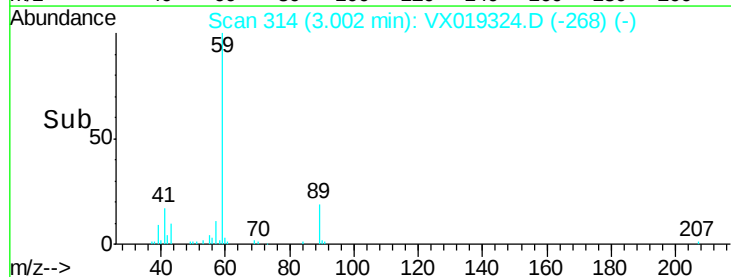
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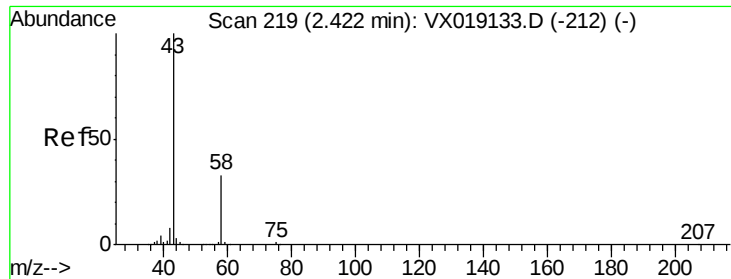
10000

0

Time-->

2.90 3.00 3.10





#16

Acetone

Concen: 691.070 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

Instrument :

MSVOA_X

ClientSampled :

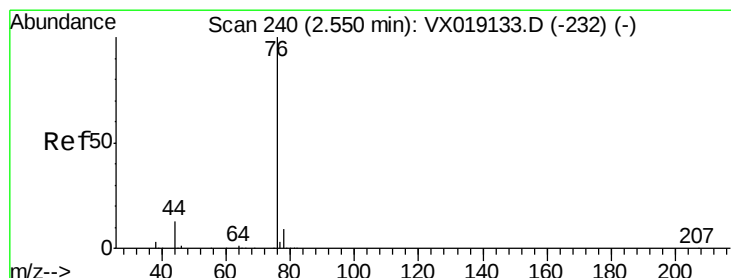
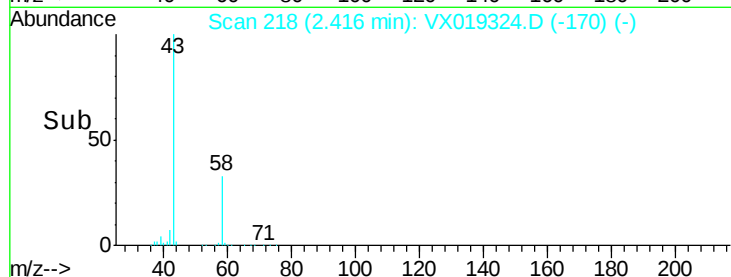
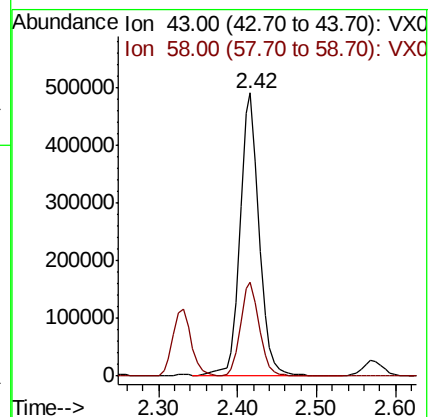
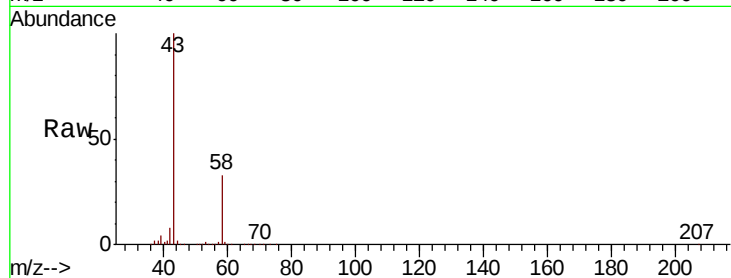
32733

Tot Ion: 43 Resp: 821545

Ion Ratio Lower Upper

43 100

58 33.0 26.3 39.5



#17

Carbon Disulfide

Concen: 1.189 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019324.D

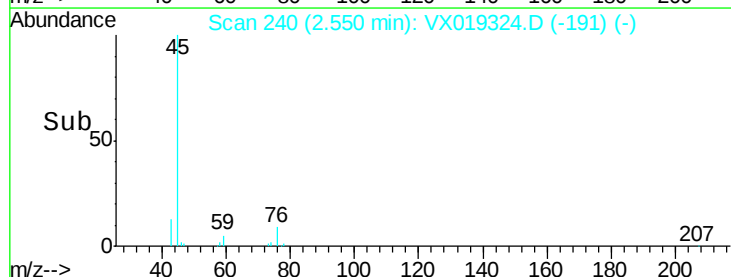
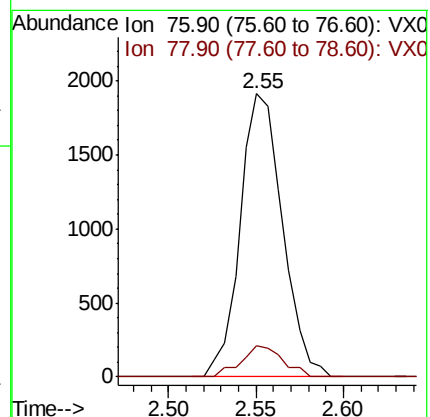
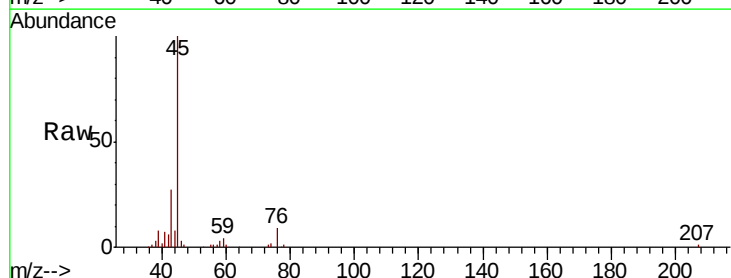
Acq: 05 Nov 2020 19:03

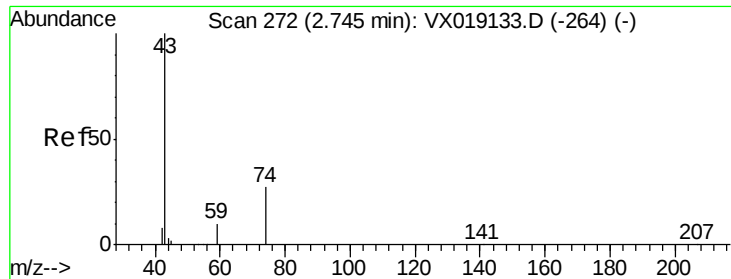
Tgt Ion: 76 Resp: 3218

Ion Ratio Lower Upper

76 100

78 10.9 7.3 10.9#

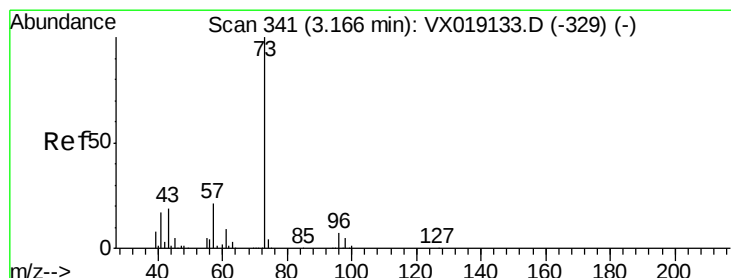
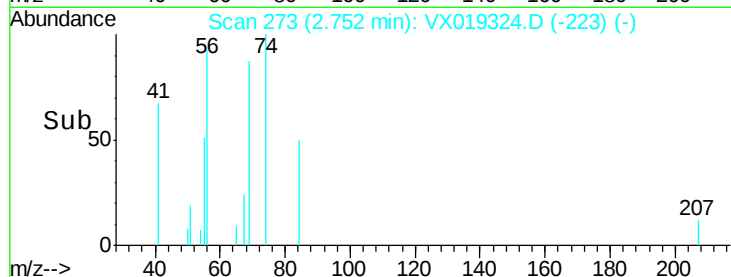
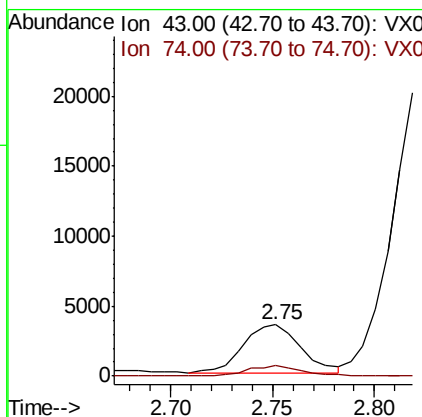
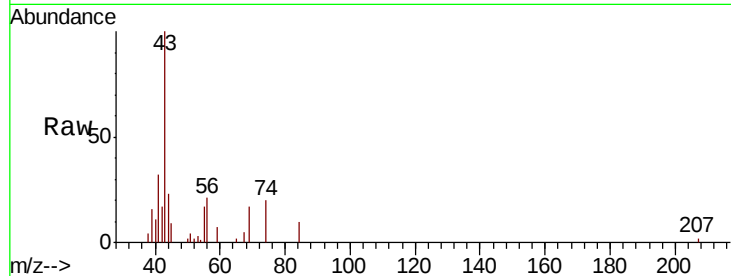




#18
Methyl Acetate
Concen: 2.314 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

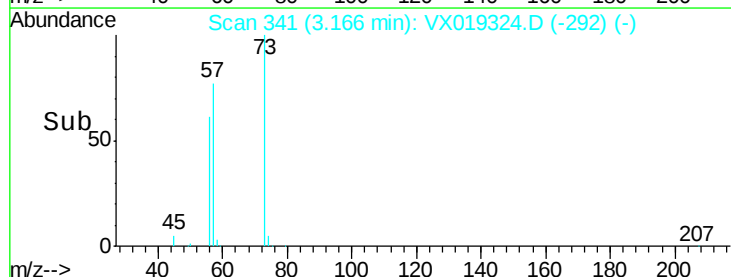
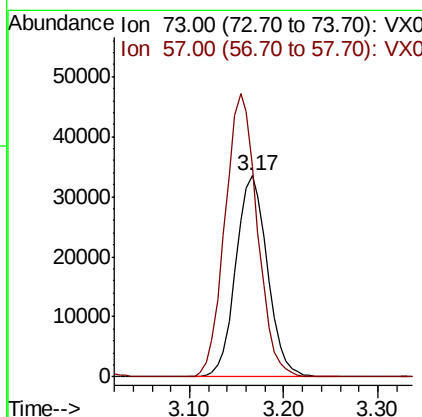
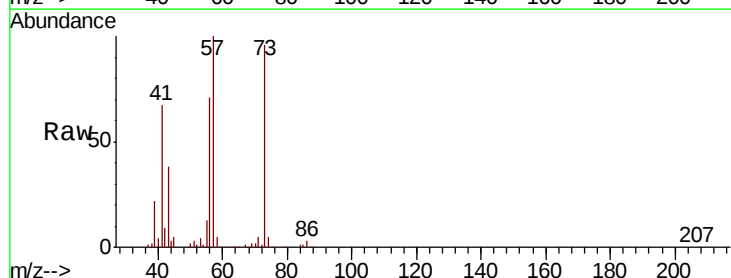
Instrument :
MSVOA_X
ClientSampled :
32733

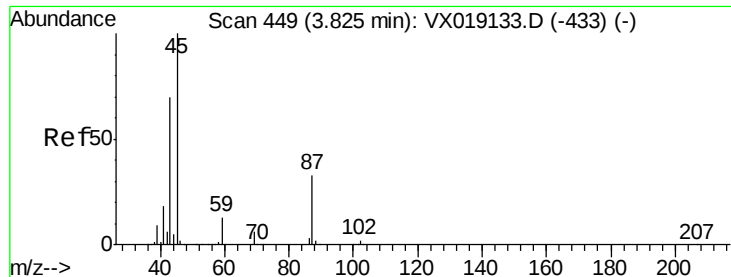
Tot Ion: 43 Resp: 6690
Ion Ratio Lower Upper
43 100
74 20.9 22.6 33.8#



#19
Methyl tert-butyl Ether
Concen: 8.743 ug/l
RT: 3.17 min Scan# 341
Delta R.T. 0.00 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

Tgt Ion: 73 Resp: 78455
Ion Ratio Lower Upper
73 100
57 104.3 16.6 25.0#





#22

Diisopropyl ether

Concen: 12.178 ug/l

RT: 3.82 min Scan# 449

Delta R.T. 0.00 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

32733

Tot Ion: 45 Resp: 95234

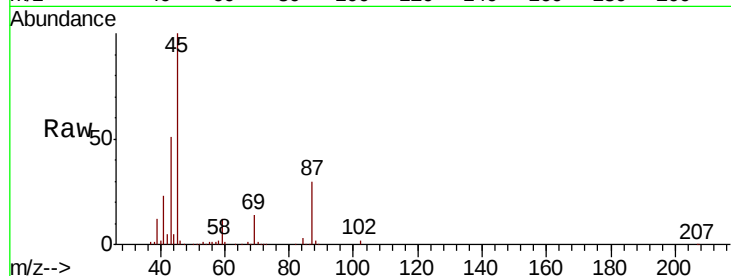
Ion Ratio Lower Upper

45 100

43 49.4 56.2 84.4#

87 30.3 26.2 39.2

59 11.5 10.1 15.1

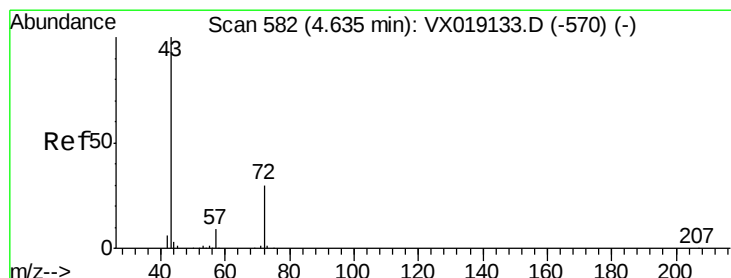
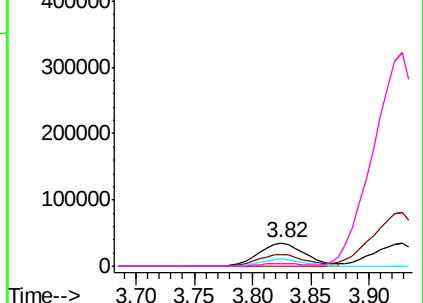
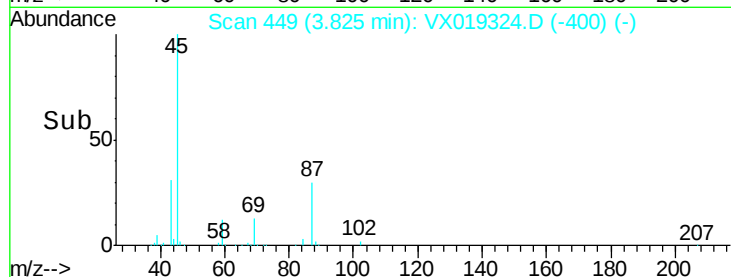


Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0



#25

2-Butanone

Concen: 141.072 ug/l

RT: 4.63 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX019324.D

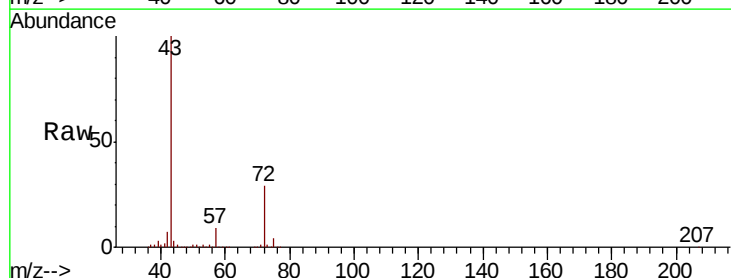
Acq: 05 Nov 2020 19:03

Tgt Ion: 43 Resp: 264306

Ion Ratio Lower Upper

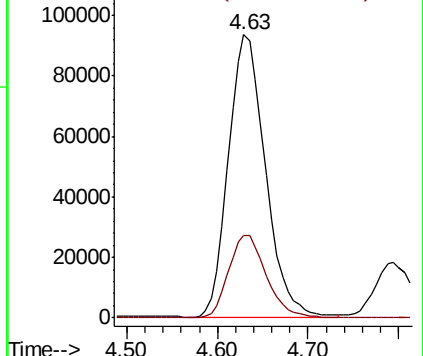
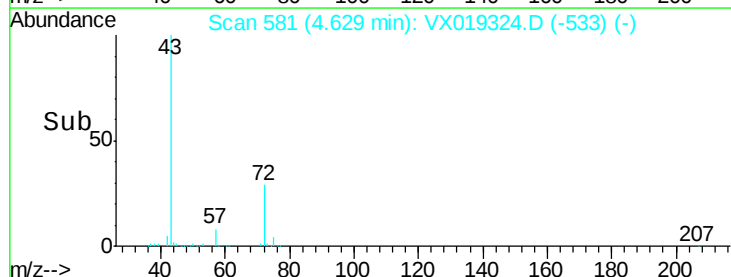
43 100

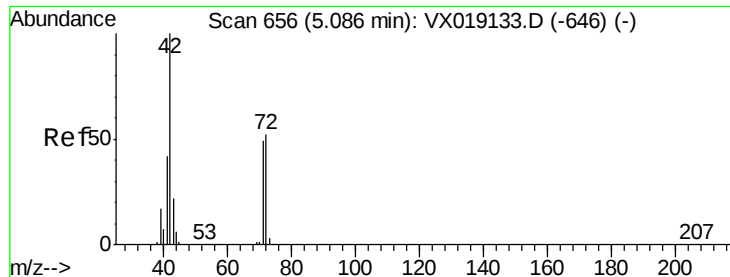
72 29.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

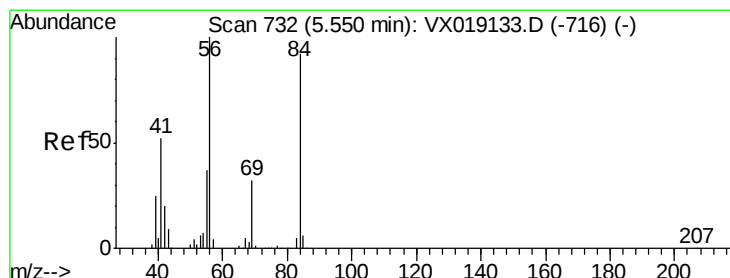
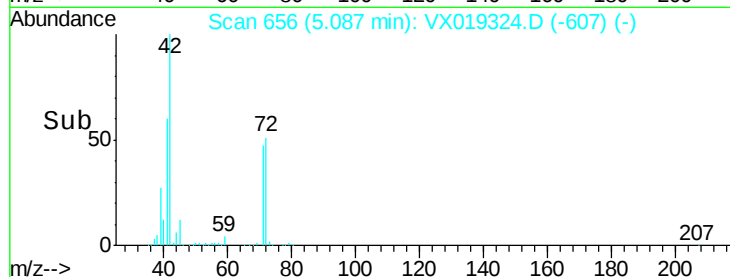
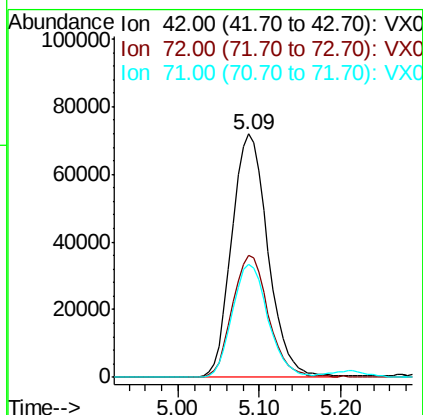
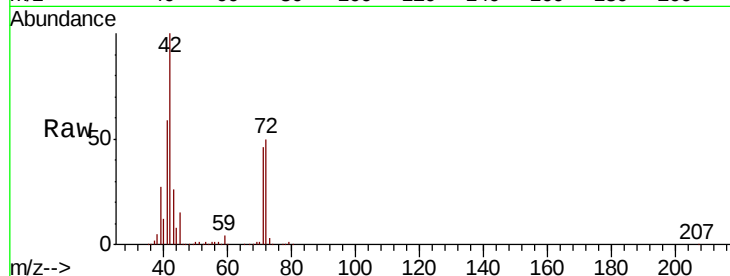




#29
Tetrahydrofuran
Concen: 187.067 ug/l
RT: 5.09 min Scan# 656
Delta R.T. 0.00 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

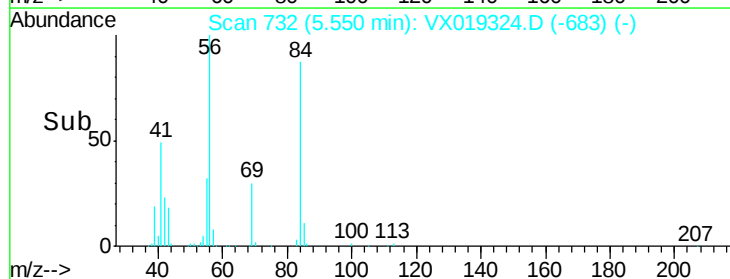
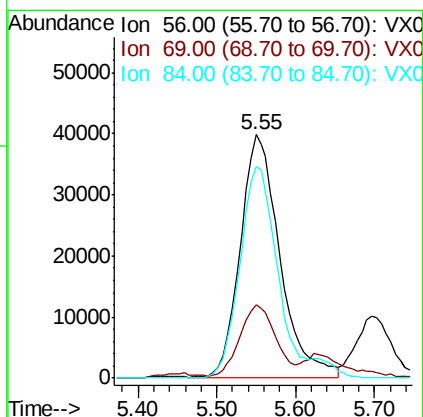
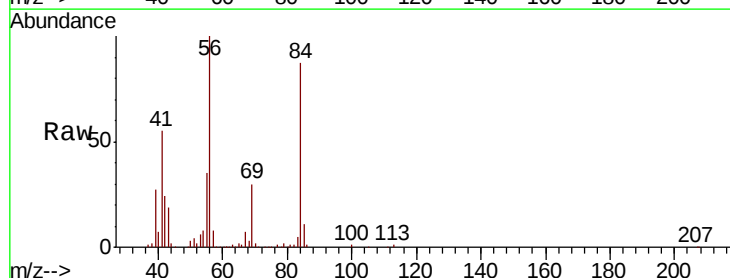
Instrument :
MSVOA_X
ClientSampleID :
32733

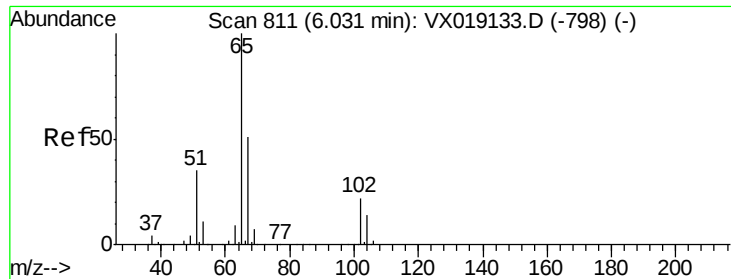
Tot Ion:	42	Resp:	220870
Ion	Ratio	Lower	Upper
42	100		
72	49.9	42.6	63.8
71	46.0	39.7	59.5



#31
Cyclohexane
Concen: 31.798 ug/l
RT: 5.55 min Scan# 732
Delta R.T. 0.00 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

Tgt Ion:	56	Resp:	138511
Ion	Ratio	Lower	Upper
56	100		
69	29.0	25.9	38.9
84	87.0	73.4	110.2





#33

1,2-Dichloroethane-d4

Concen: 54.990 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

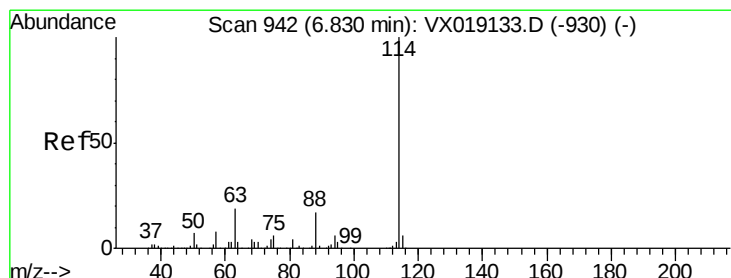
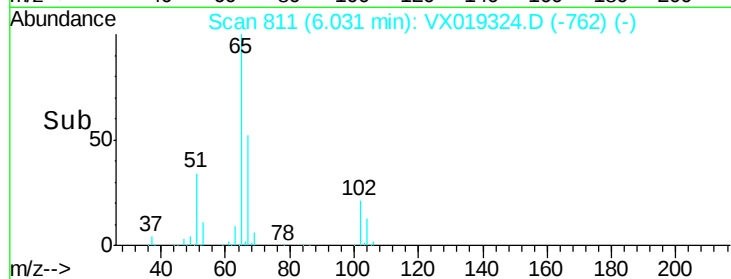
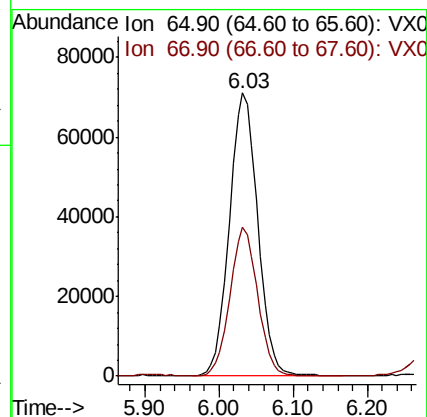
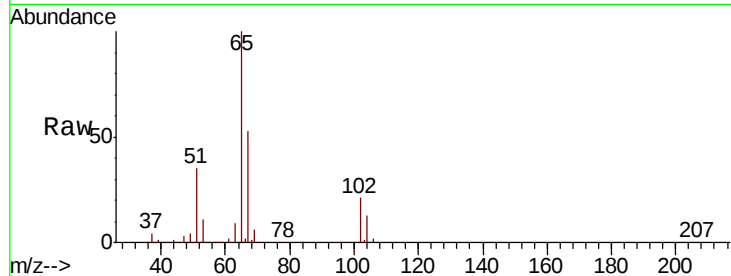
32733

Tot Ion: 65 Resp: 189493

Ion Ratio Lower Upper

65 100

67 51.0 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

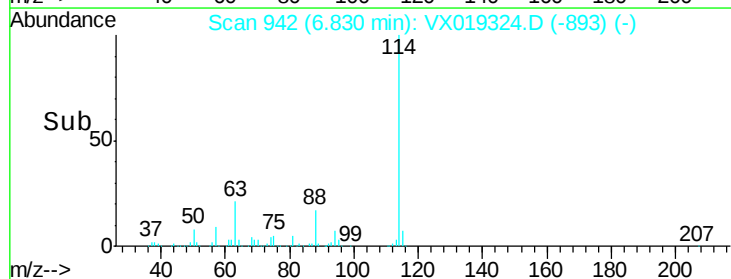
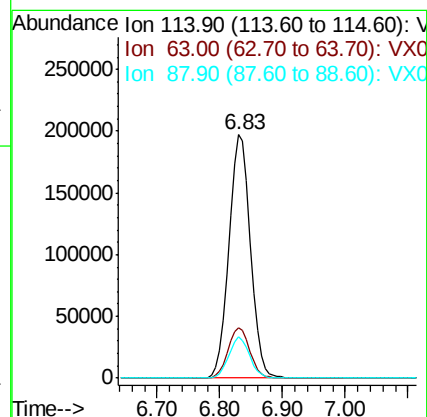
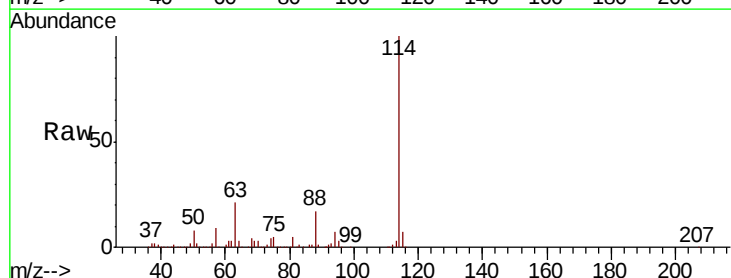
Tgt Ion: 114 Resp: 467732

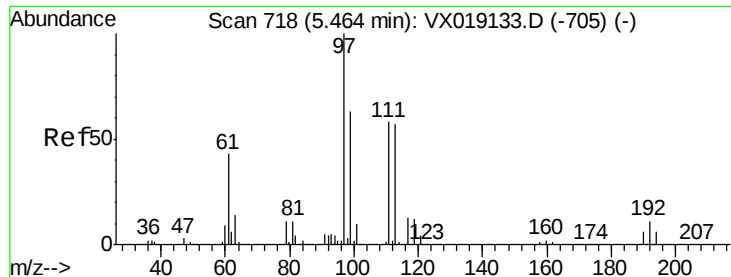
Ion Ratio Lower Upper

114 100

63 20.8 0.0 38.8

88 16.9 0.0 34.2

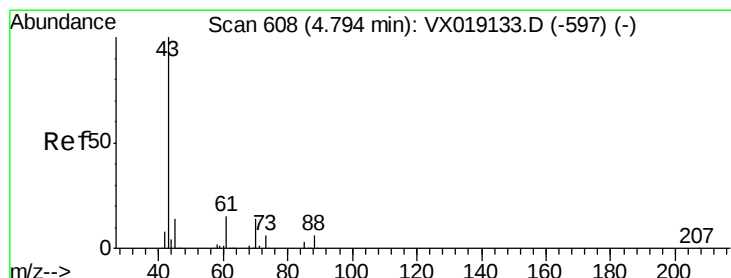
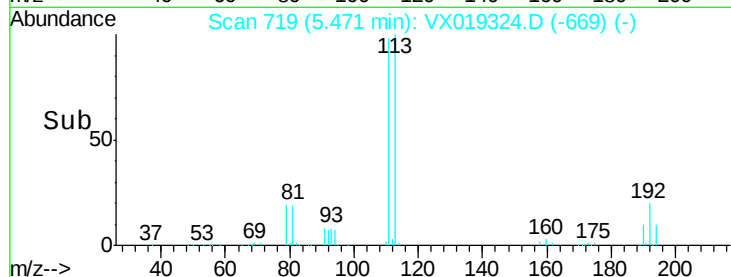
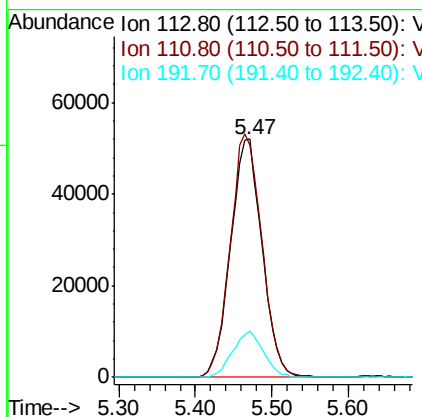
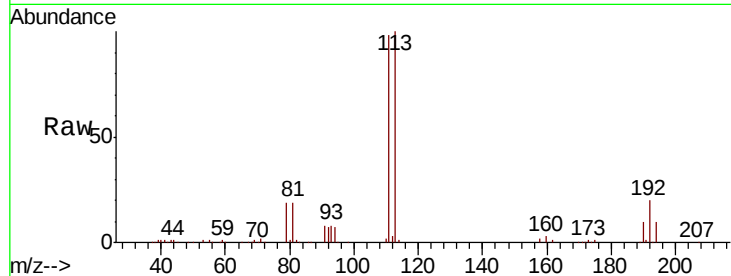




#35
 Dibromofluoromethane
 Concen: 50.568 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX019324.D
 Acq: 05 Nov 2020 19:03

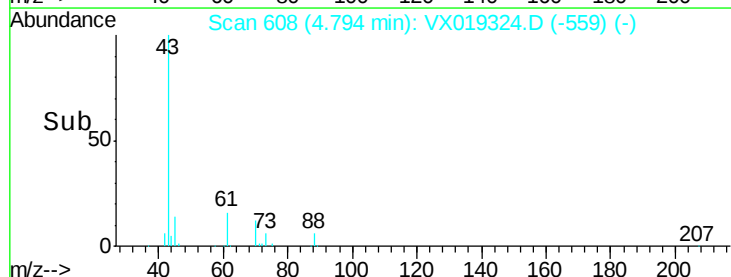
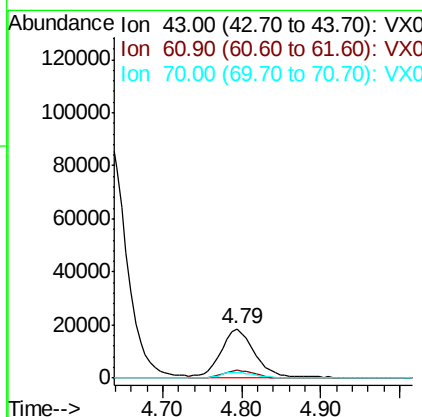
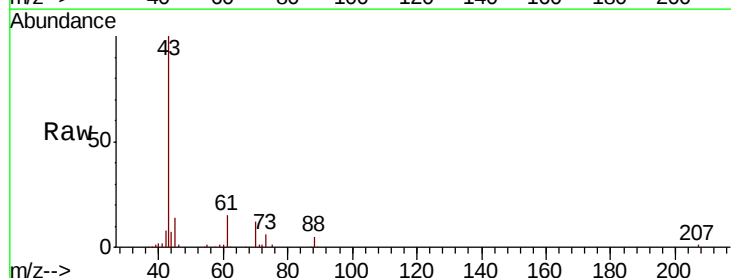
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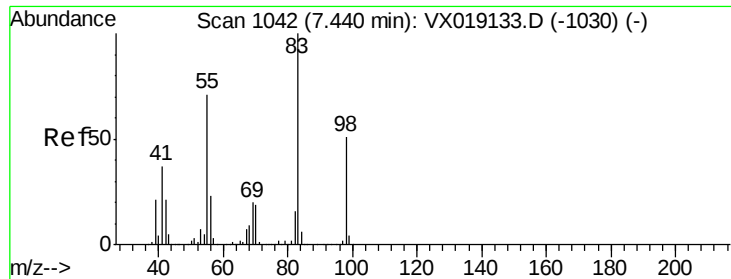
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.3	123.5
192	19.1	16.2	24.2



#37
 Ethyl Acetate
 Concen: 13.423 ug/l
 RT: 4.79 min Scan# 608
 Delta R.T. 0.00 min
 Lab File: VX019324.D
 Acq: 05 Nov 2020 19:03

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.6	12.5	18.7
70	13.1	10.5	15.7

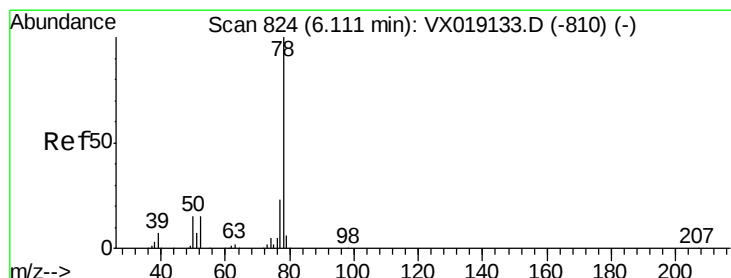
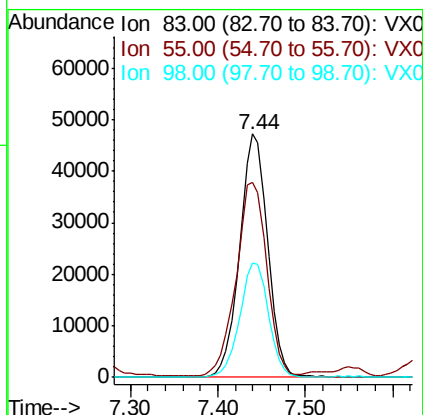
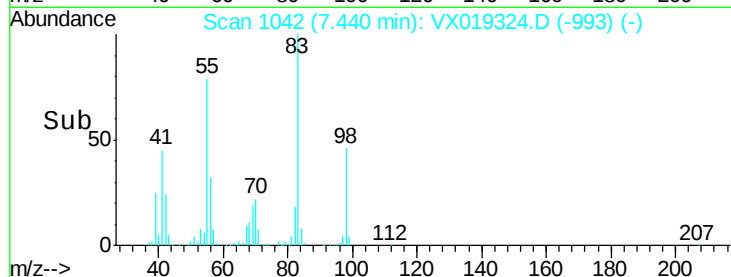
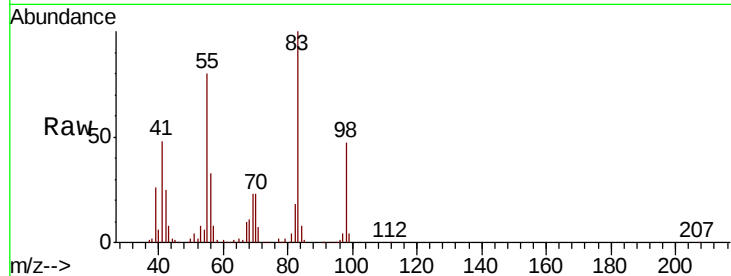




#39
Methvlcvclohexane
Concen: 20.333 ug/l
RT: 7.44 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

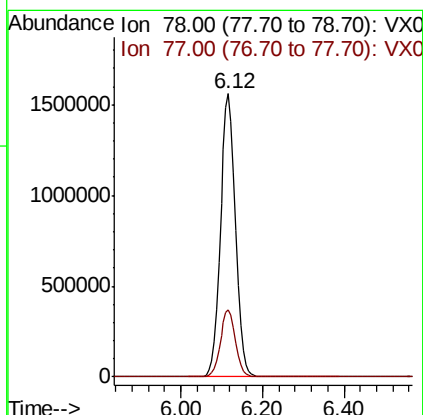
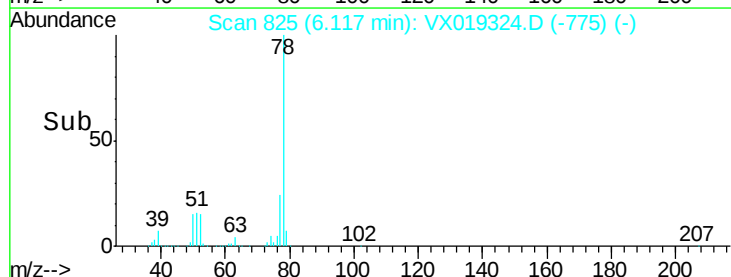
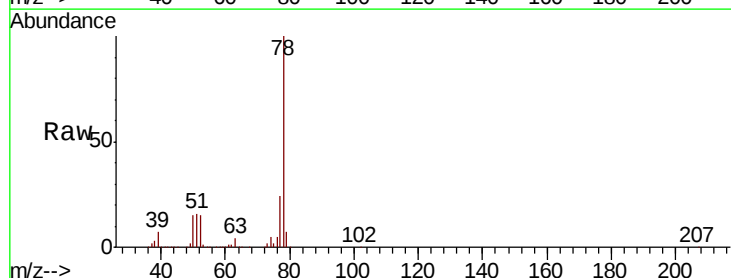
Instrument :
MSVOA_X
ClientSampled :
32733

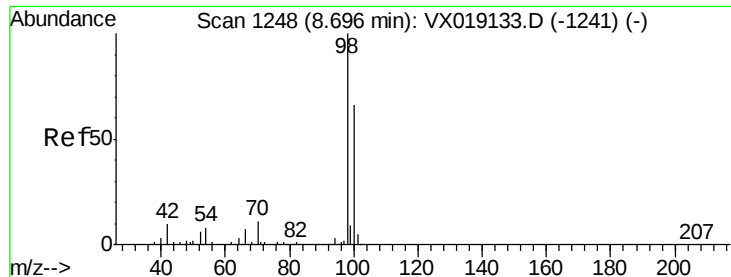
Tot Ion: 83 Resp: 105011
Ion Ratio Lower Upper
83 100
55 79.7 57.0 85.6
98 47.0 40.5 60.7



#40
Benzene
Concen: 329.155 ug/l
RT: 6.12 min Scan# 825
Delta R.T. 0.01 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

Tgt Ion: 78 Resp: 4030896
Ion Ratio Lower Upper
78 100
77 23.8 18.7 28.1





#50

Toluene-d8

Concen: 52.594 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

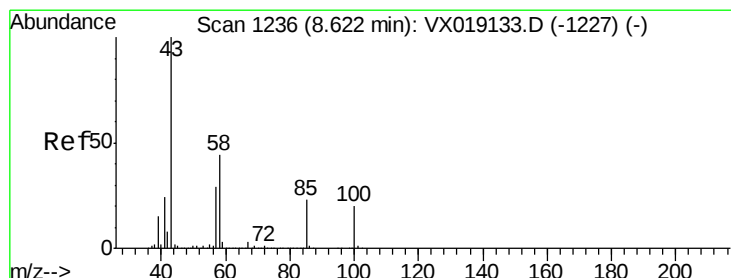
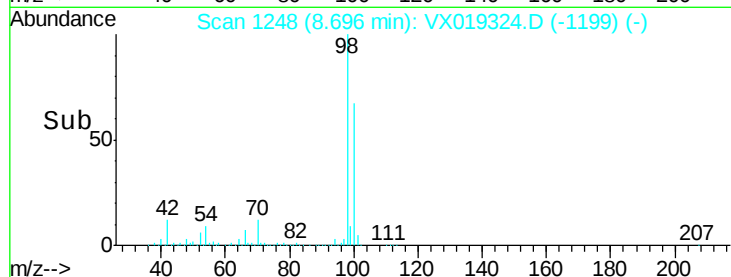
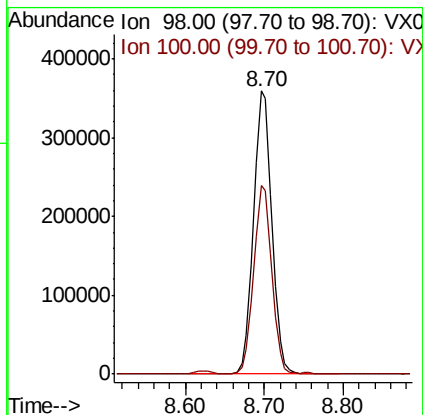
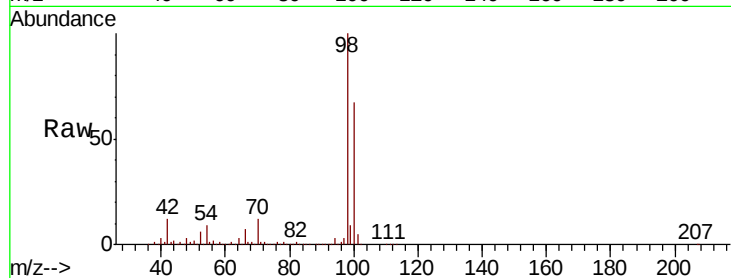
32733

Tot Ion: 98 Resp: 582492

Ion Ratio Lower Upper

98 100

100 65.6 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 9.774 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VX019324.D

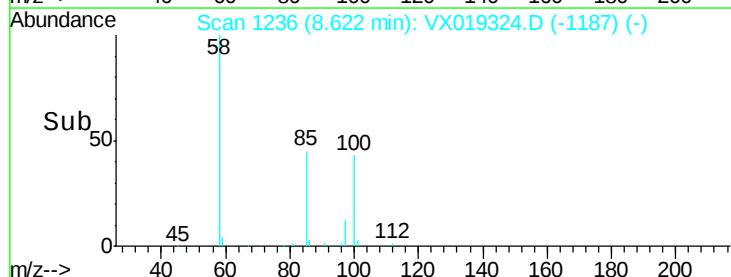
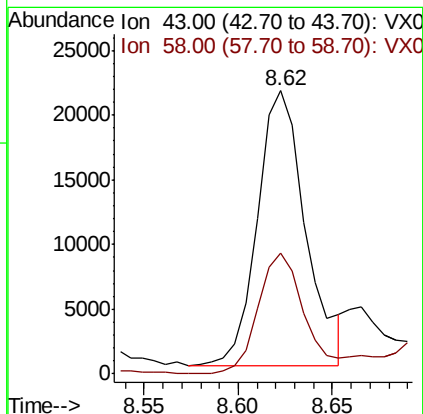
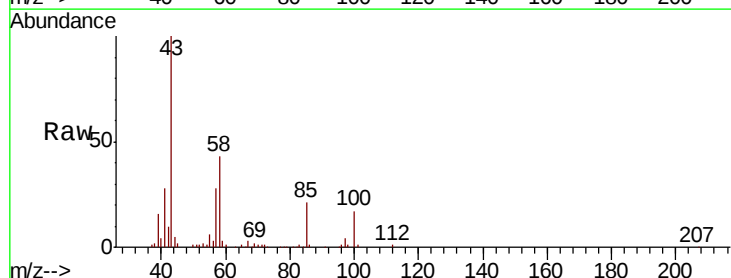
Acq: 05 Nov 2020 19:03

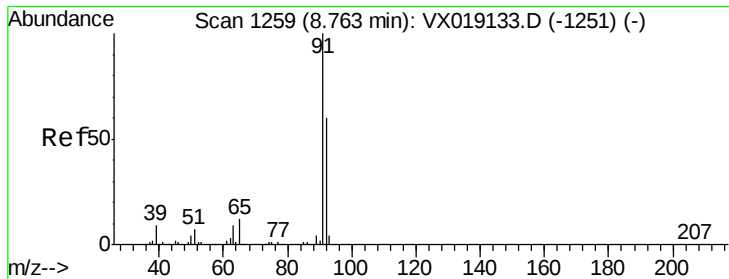
Tgt Ion: 43 Resp: 37721

Ion Ratio Lower Upper

43 100

58 41.5 35.0 52.4





#52

Toluene

Concen: 1064.743 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

Instrument :

MSVOA_X

ClientSampled :

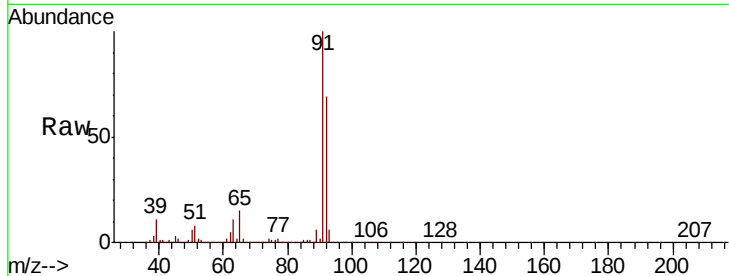
32733

Tot Ion: 92 Resp: 8397944

Ion Ratio Lower Upper

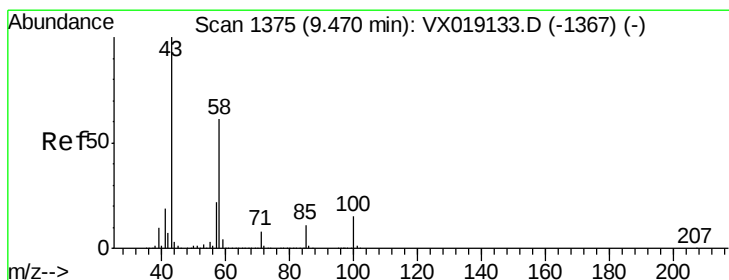
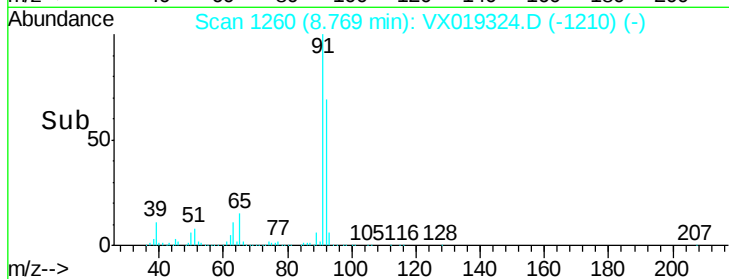
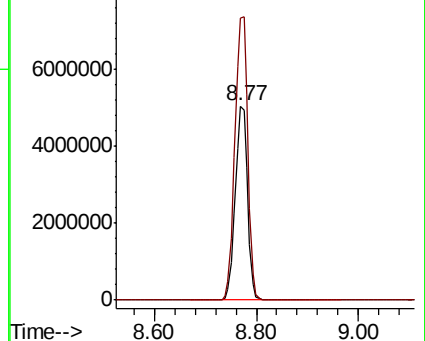
92 100

91 154.4 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 8.124 ug/l

RT: 9.47 min Scan# 1375

Delta R.T. 0.00 min

Lab File: VX019324.D

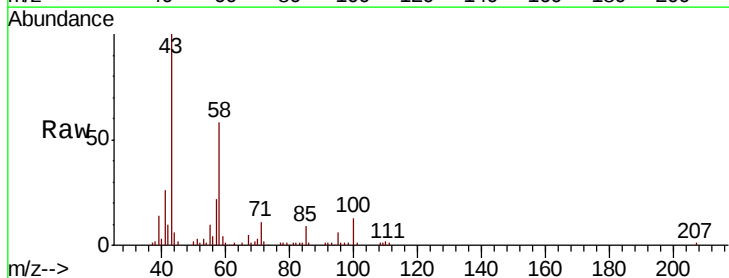
Acq: 05 Nov 2020 19:03

Tgt Ion: 43 Resp: 23867

Ion Ratio Lower Upper

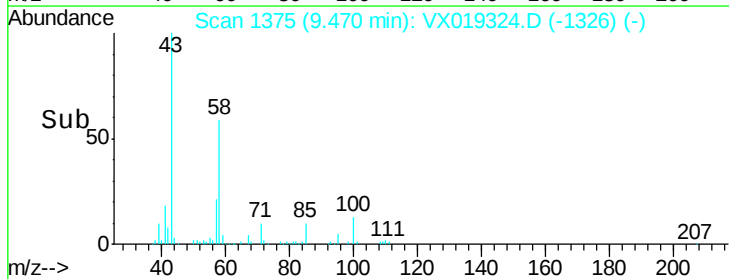
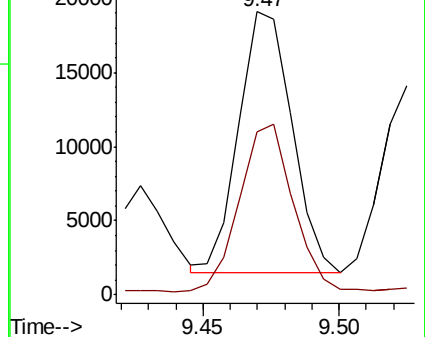
43 100

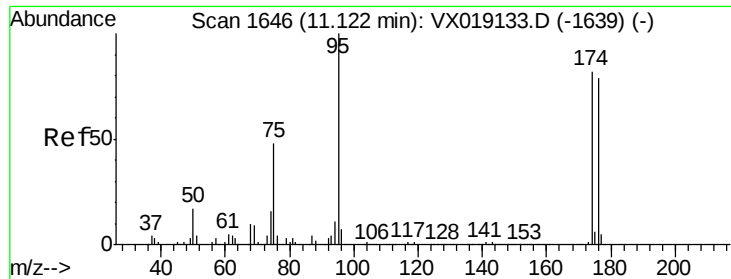
58 65.6 30.5 91.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 57.989 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

32733

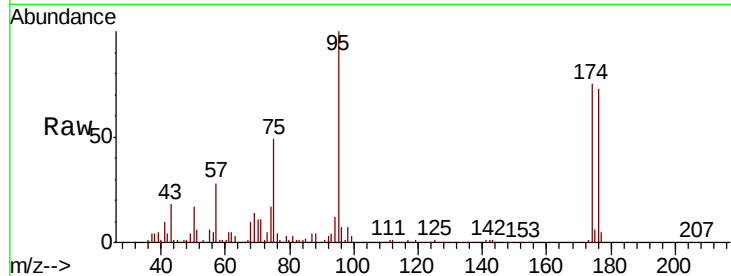
Tot Ion: 95 Resp: 243221

Ion Ratio Lower Upper

95 100

174 73.8 0.0 156.0

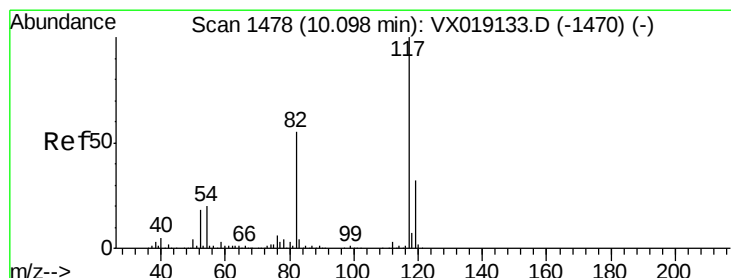
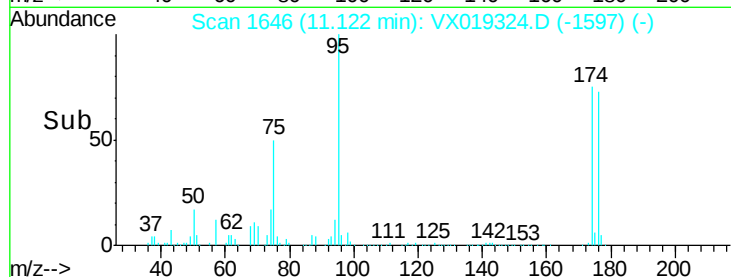
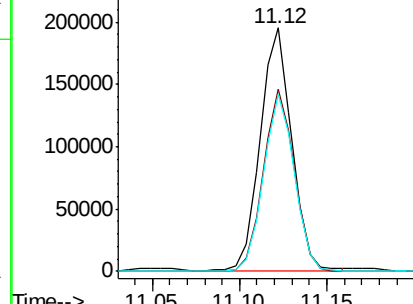
176 71.7 0.0 149.8



Abundance Ion 94.90 (94.60 to 95.60): VX019324.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX019324.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX019324.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

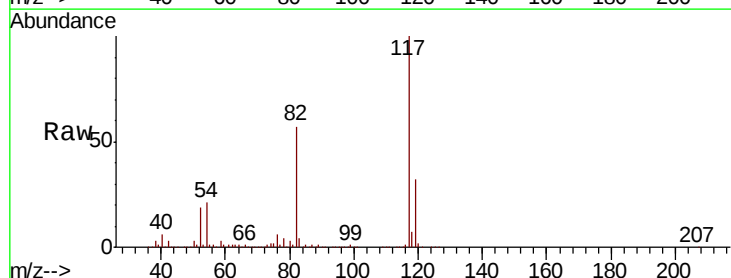
Tgt Ion: 117 Resp: 455732

Ion Ratio Lower Upper

117 100

82 57.2 43.6 65.4

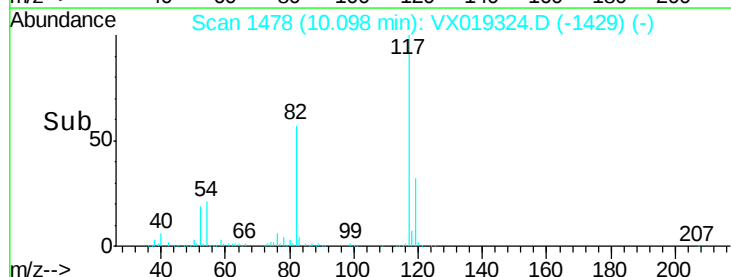
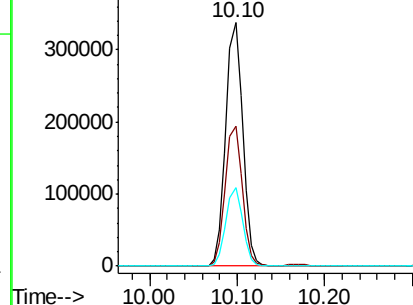
119 32.2 25.5 38.3

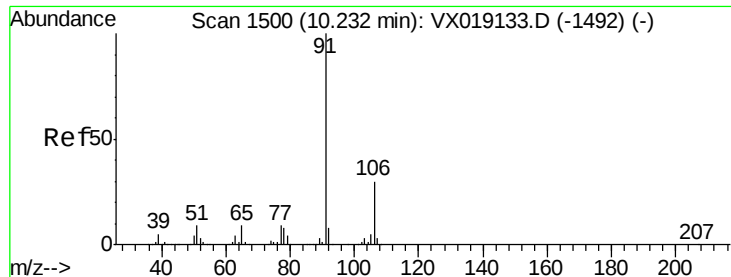


Abundance Ion 116.90 (116.60 to 117.60): VX019324.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019324.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019324.D (-1470) (-)

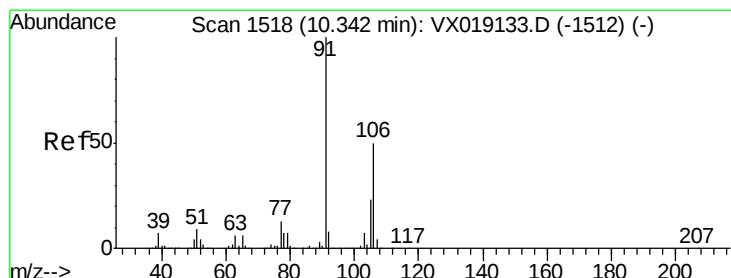
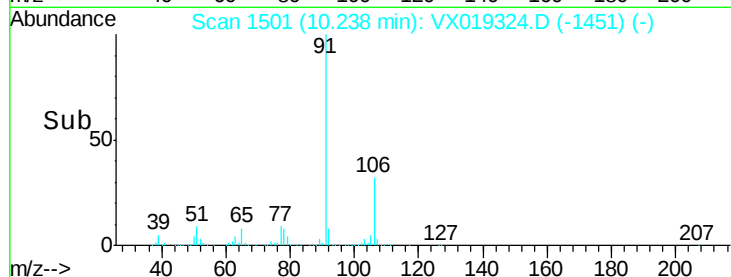
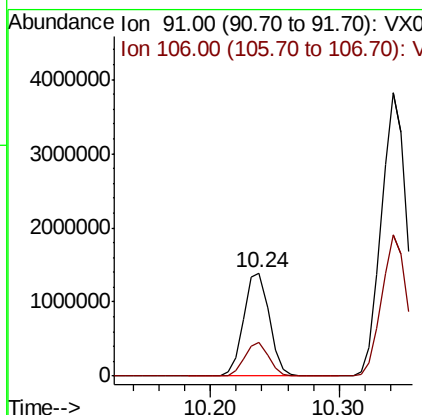
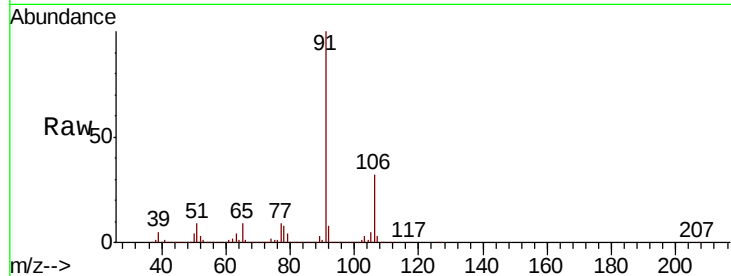




#67
Ethyl Benzene
Concen: 113.964 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. 0.01 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

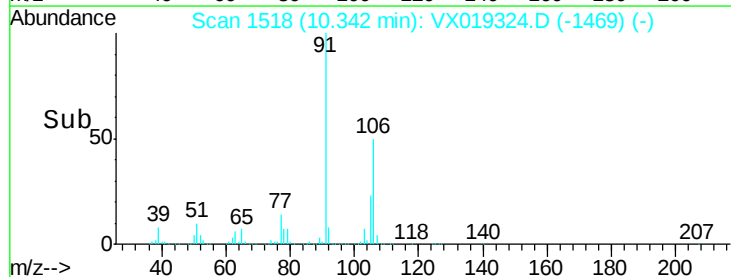
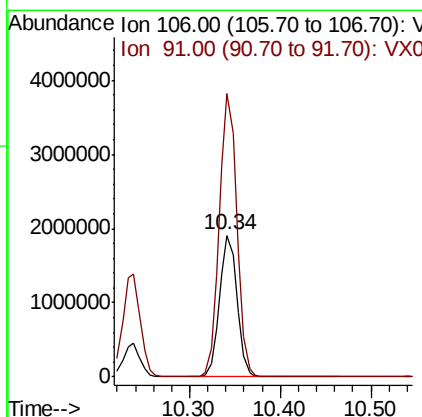
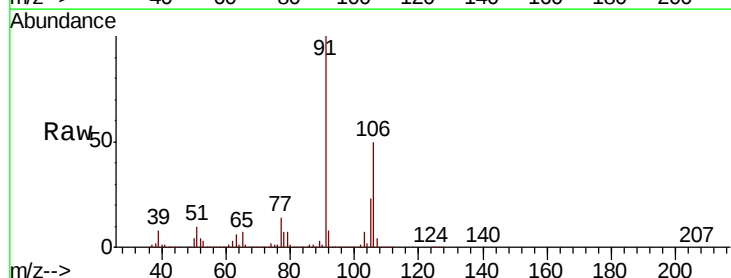
Instrument :
MSVOA_X
ClientSampled :
32733

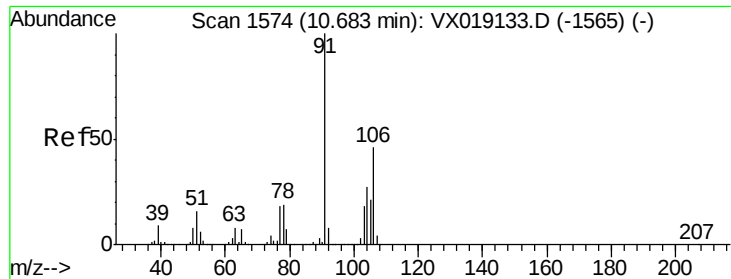
Tot Ion: 91 Resp: 1891587
Ion Ratio Lower Upper
91 100
106 32.3 24.3 36.5



#68
m/p-Xylenes
Concen: 414.190 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. 0.00 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

Tgt Ion: 106 Resp: 2580211
Ion Ratio Lower Upper
106 100
91 201.1 161.0 241.4

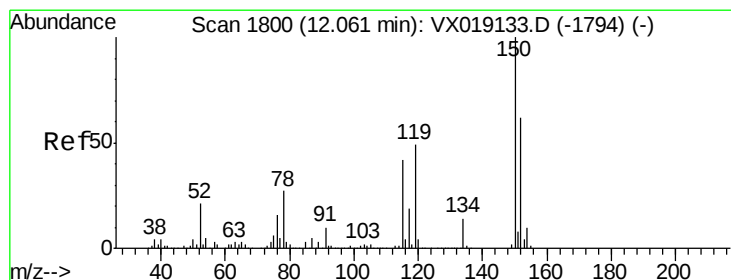
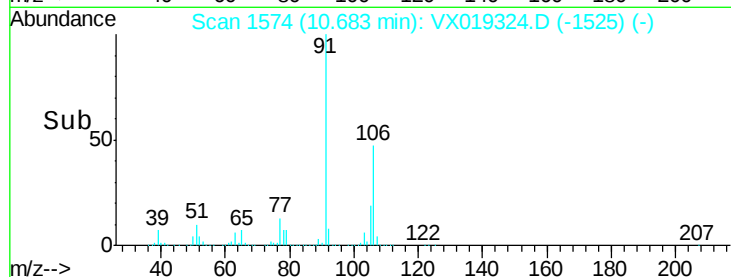
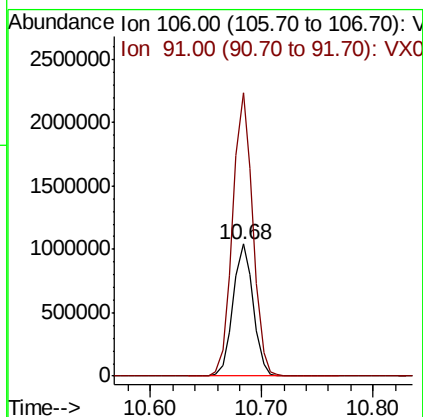
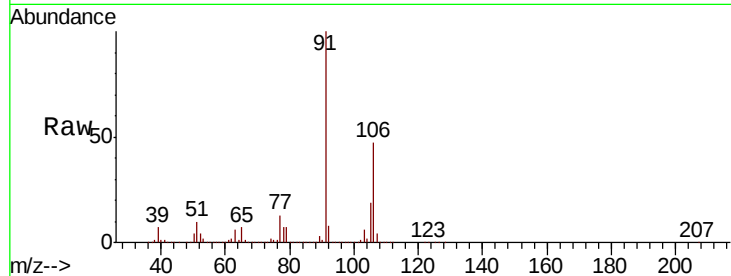




#69
o-Xylene
Concen: 219.776 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

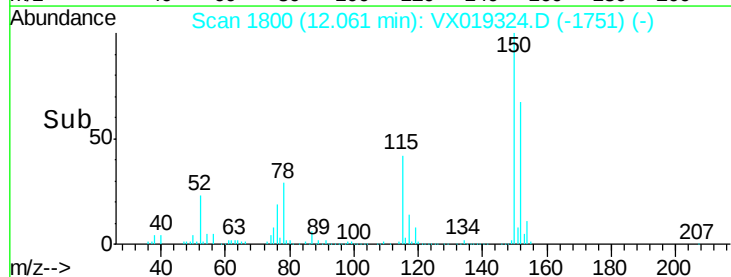
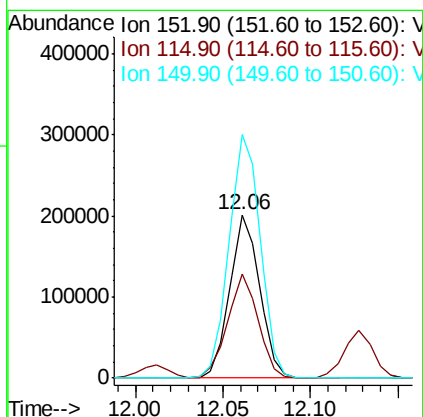
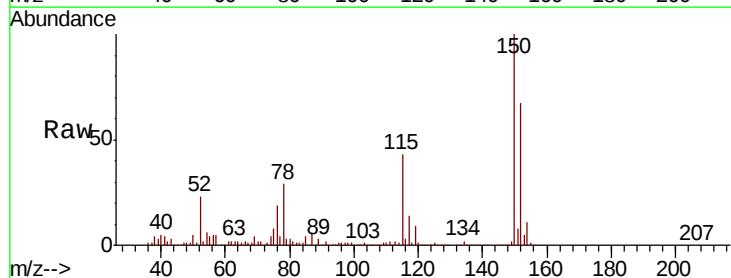
Instrument :
MSVOA_X
ClientSampled :
32733

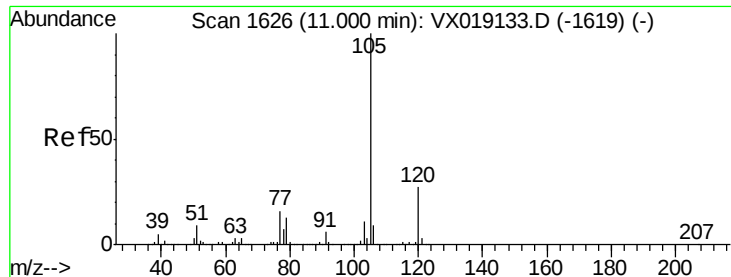
Tot Ion:106 Resp: 1298588
Ion Ratio Lower Upper
106 100
91 214.7 108.3 324.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

Tgt Ion:152 Resp: 240158
Ion Ratio Lower Upper
152 100
115 64.6 41.9 125.7
150 156.4 0.0 347.8





#73

Isopropylbenzene

Concen: 8.717 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

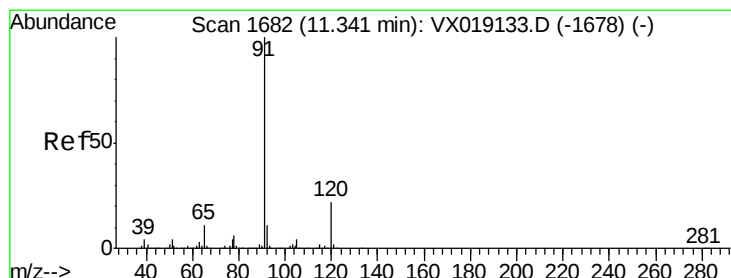
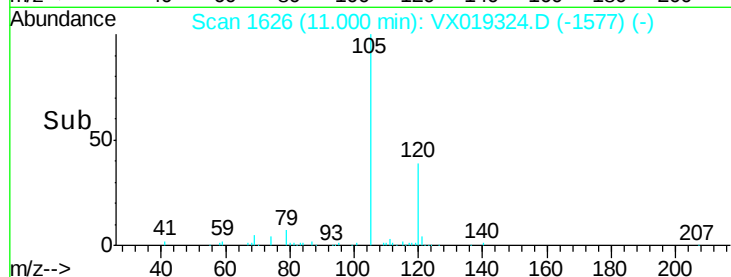
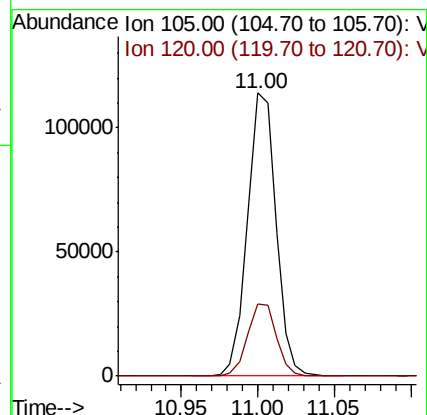
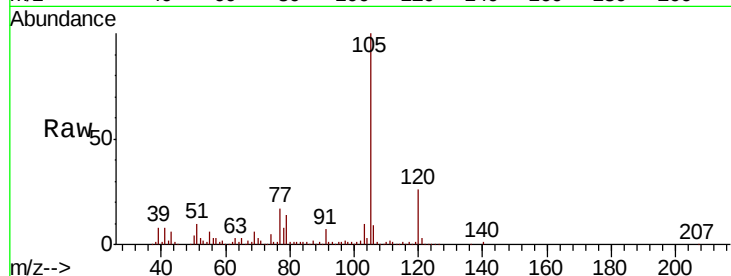
32733

Tot Ion:105 Resp: 148189

Ion Ratio Lower Upper

105 100

120 25.8 13.3 39.8



#78

n-propylbenzene

Concen: 29.443 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. 0.00 min

Lab File: VX019324.D

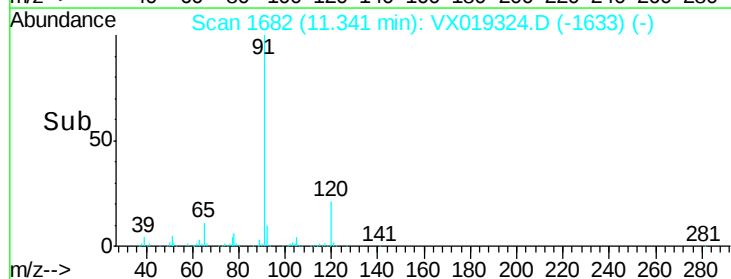
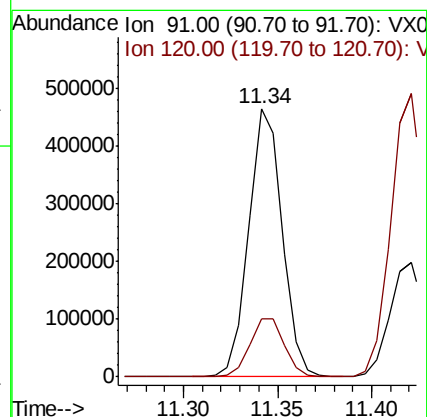
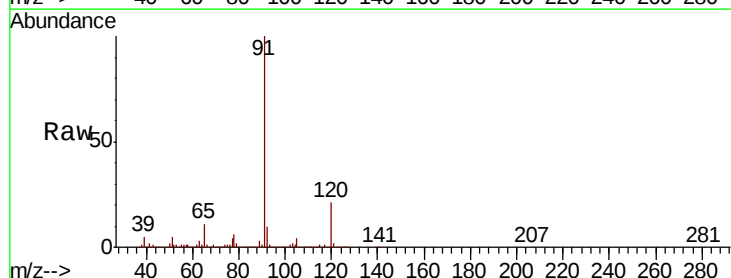
Acq: 05 Nov 2020 19:03

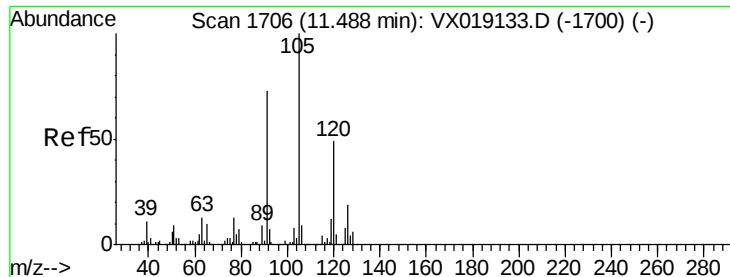
Tgt Ion: 91 Resp: 571359

Ion Ratio Lower Upper

91 100

120 22.5 11.7 35.0





#80

1,3,5-Trimethylbenzene

Concen: 62.188 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX019324.D

Acq: 05 Nov 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

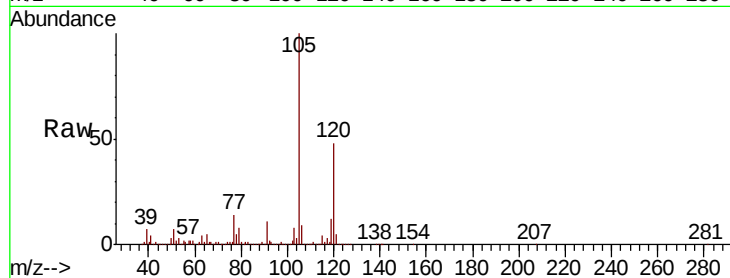
32733

Tot Ion:105 Resp: 893093

Ion Ratio Lower Upper

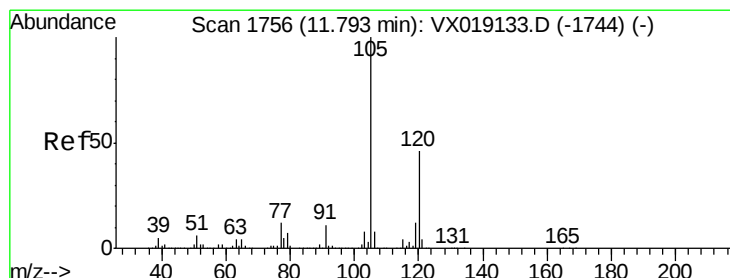
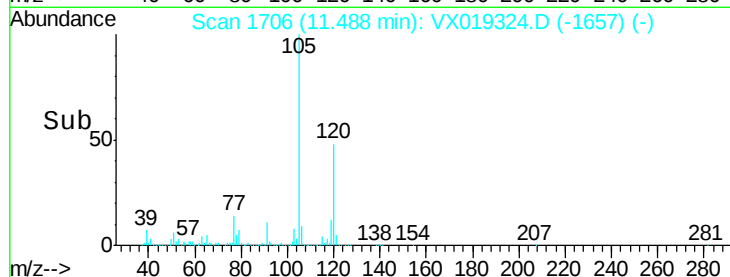
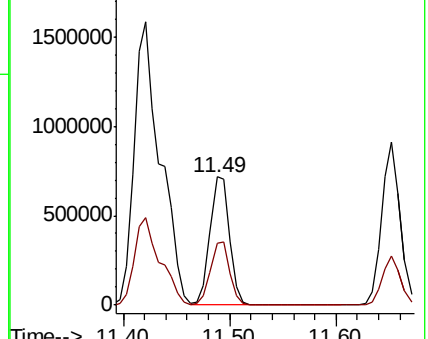
105 100

120 48.4 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 270.636 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX019324.D

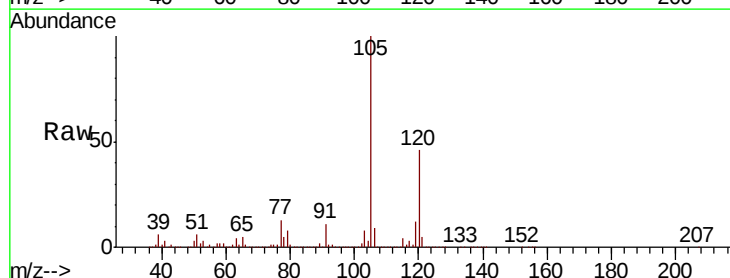
Acq: 05 Nov 2020 19:03

Tgt Ion:105 Resp: 3923795

Ion Ratio Lower Upper

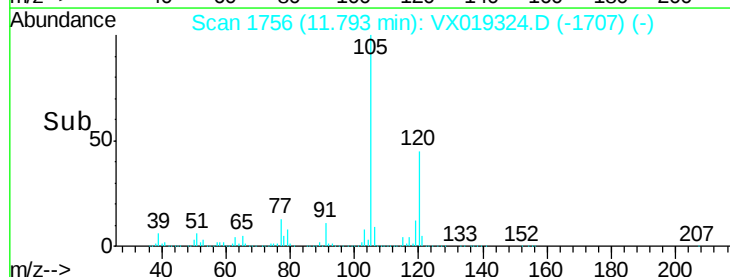
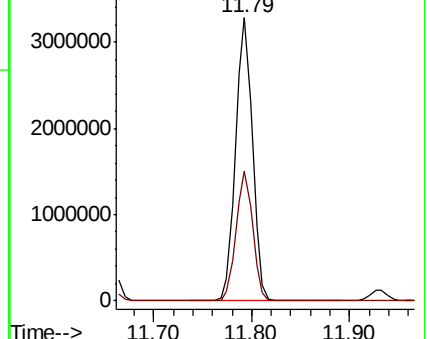
105 100

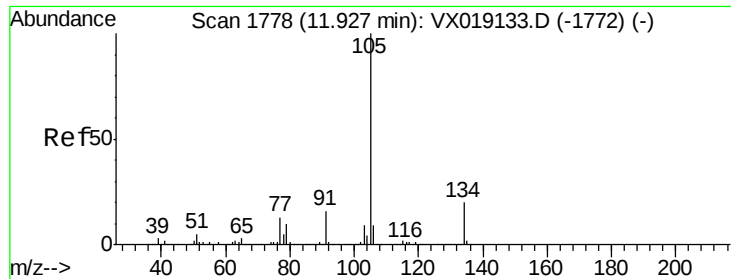
120 45.2 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

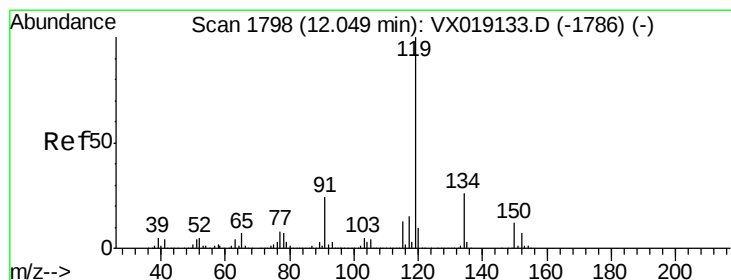
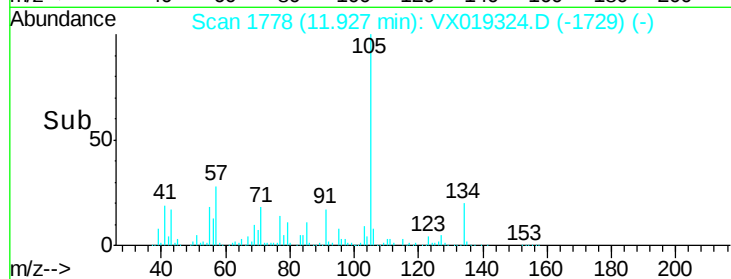
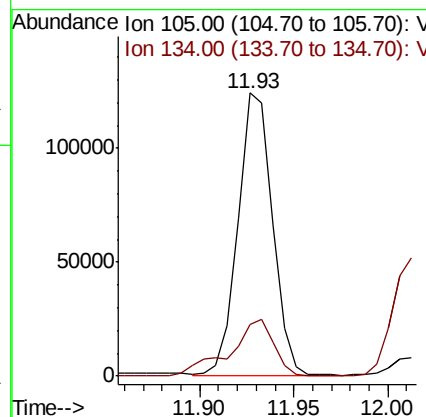
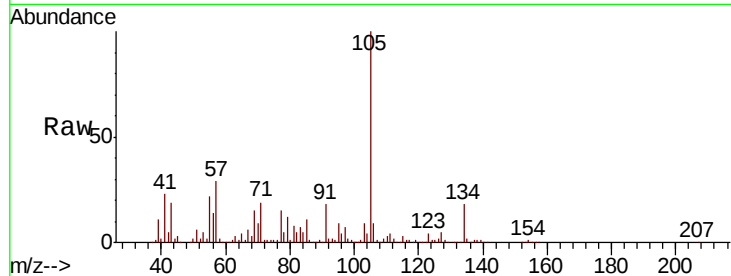




#85
 sec-Butylbenzene
 Concen: 9.531 ug/l
 RT: 11.93 min Scan# 1778
 Delta R.T. 0.00 min
 Lab File: VX019324.D
 Acq: 05 Nov 2020 19:03

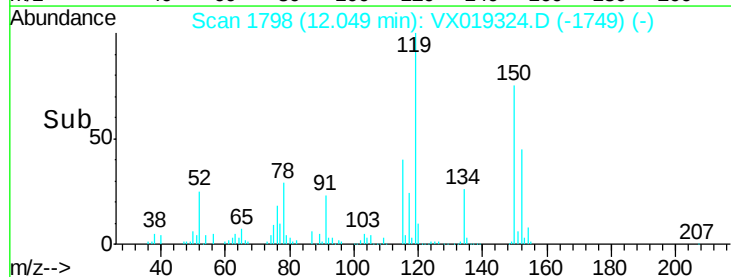
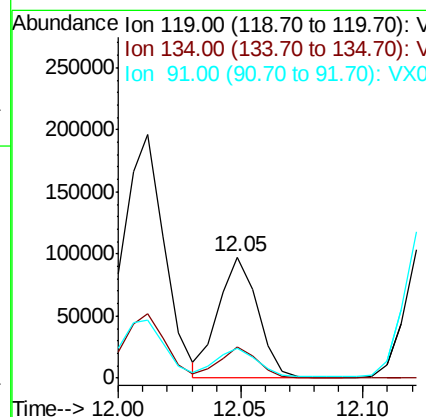
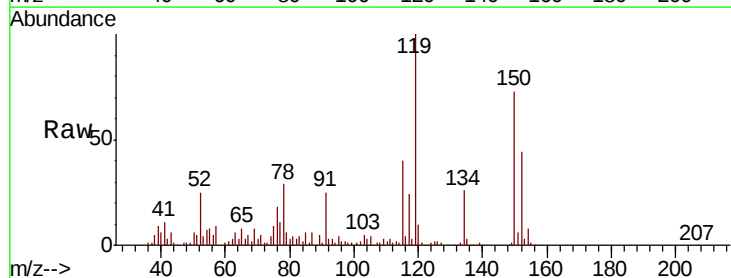
Instrument :
 MSVOA_X
 ClientSampleId :
 32733

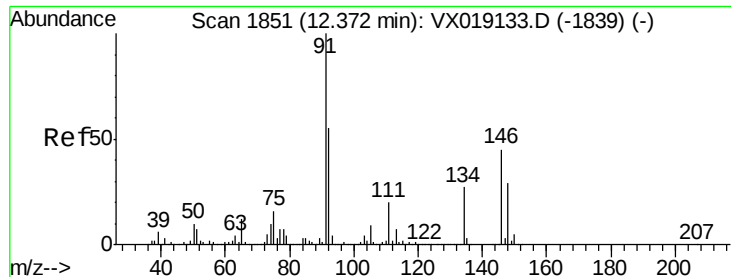
Tot Ion:105 Resp: 157195
 Ion Ratio Lower Upper
 105 100
 134 25.9 10.1 30.1



#86
 p-Isopropyltoluene
 Concen: 7.126 ug/l
 RT: 12.05 min Scan# 1798
 Delta R.T. 0.00 min
 Lab File: VX019324.D
 Acq: 05 Nov 2020 19:03

Tgt Ion:119 Resp: 108469
 Ion Ratio Lower Upper
 119 100
 134 25.7 12.9 38.7
 91 24.5 12.0 36.0

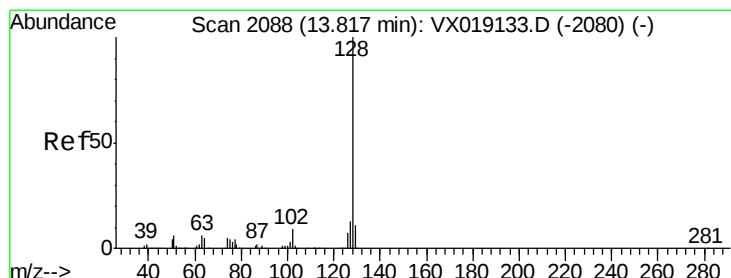
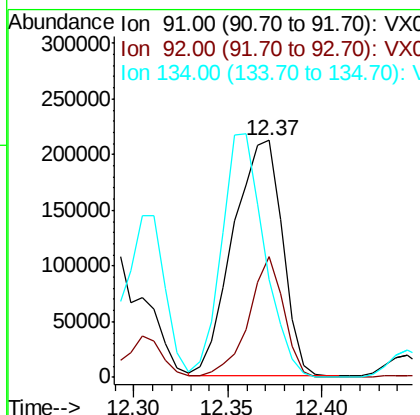
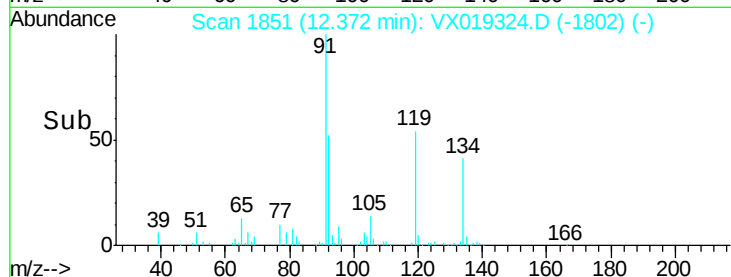
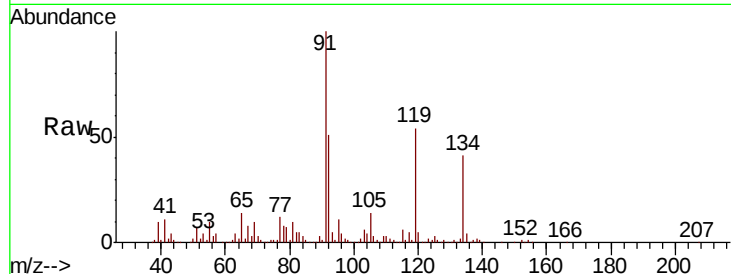




#89
n-Butylbenzene
Concen: 26.812 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. 0.00 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

Instrument :
MSVOA_X
ClientSampled :
32733

Tot Ion: 91 Resp: 383632
Ion Ratio Lower Upper
91 100
92 36.5 27.5 82.4
134 89.7 13.2 39.6#



#95
Naphthalene
Concen: 102.926 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019324.D
Acq: 05 Nov 2020 19:03

Tgt Ion: 128 Resp: 1837065
Ion Ratio Lower Upper
128 100
127 13.3 10.3 15.5
129 11.6 8.6 13.0

