

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070220\
 Data File : VX017148.D
 Acq On : 02 Jul 2020 15:09
 Operator : JC/SP
 Sample : L3200-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE-(JULY)

Quant Time: Jul 03 00:49:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 09:03:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	39905	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	216396	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	192298	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	85549	27.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	91.80%
60) 4-Bromofluorobenzene	11.12	95	90564	28.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.13%
63) Toluene-d8	8.70	98	243890	28.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.90%

Target Compounds

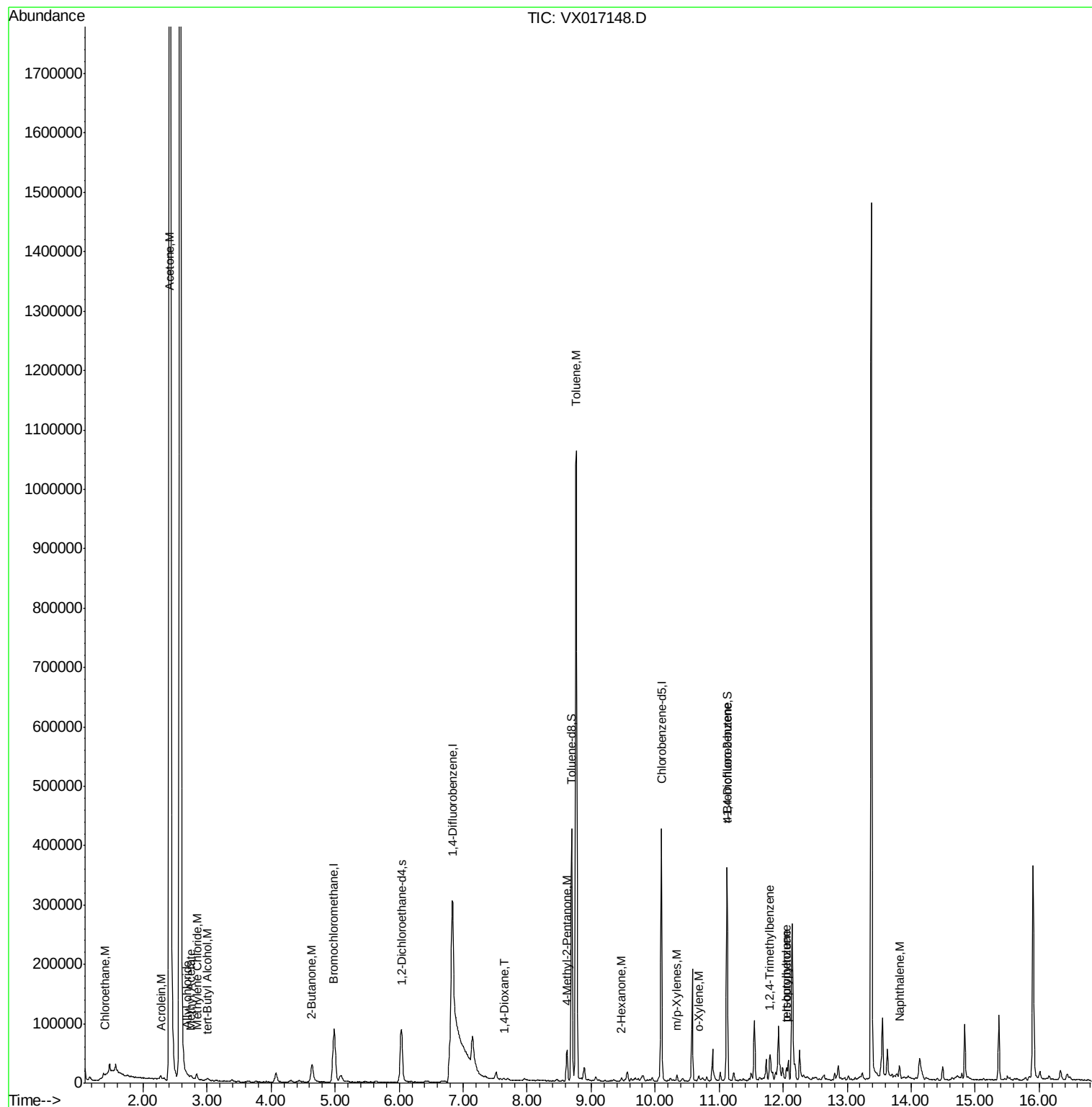
					Ovalue	
6) Chloroethane	1.40	64	16193	9.356	ug/l #	51
12) Methyl Acetate	2.75	43	4379	1.520	ug/l	95
13) Acrolein	2.28	56	196	0.431	ug/l	98
15) Acetone	2.42	58	2089145	5914.948	ug/l	98
17) Allyl chloride	2.68	41	1103	0.258	ug/l #	69
18) Methylene Chloride	2.84	84	3989	1.450	ug/l	97
23) tert-Butyl Alcohol	3.01	59	3077	5.090	ug/l #	99
30) 2-Butanone	4.64	43	51722	28.148	ug/l	99
45) 1,4-Dioxane	7.63	88	39	0.616	ug/l #	1
58) 4-Methyl-2-Pentanone	8.62	43	29545	8.341	ug/l	97
59) 2-Hexanone	9.47	43	2443	0.924	ug/l #	90
62) Toluene	8.77	91	689266	65.533	ug/l	99
67) m/p-Xylenes	10.34	106	2245	0.510	ug/l	90
68) o-Xylene	10.68	106	1105	0.261	ug/l	85
77) t-1,4-Dichloro-2-butene	11.12	75	45567	33.257	ug/l #	12
79) tert-butylbenzene	12.05	119	6683	0.725	ug/l	63
80) 1,2,4-Trimethylbenzene	11.79	105	10739	1.112	ug/l	41
82) p-Isopropyltoluene	12.05	119	6683	0.663	ug/l	97
91) Naphthalene	13.82	128	2373	0.221	ug/l #	94

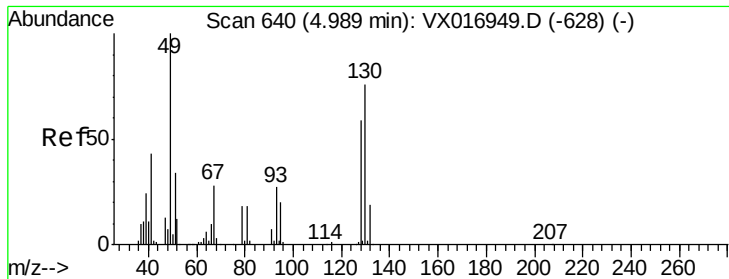
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. -0.01 min

Lab File: VX017148.D

Acq: 02 Jul 2020 15:09

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE-(JULY)

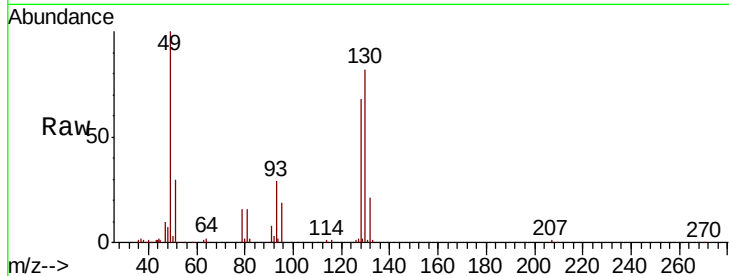
Tot Ion:128 Resp: 39905

Ion Ratio Lower Upper

128 100

49 148.5 0.0 428.0

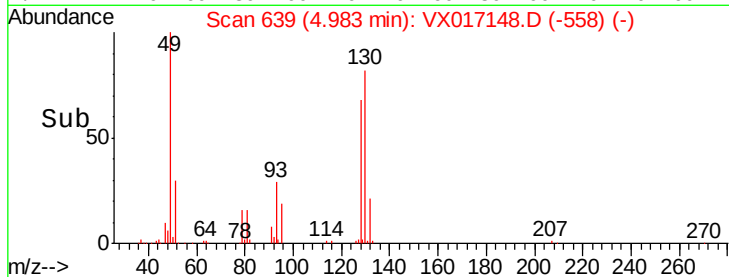
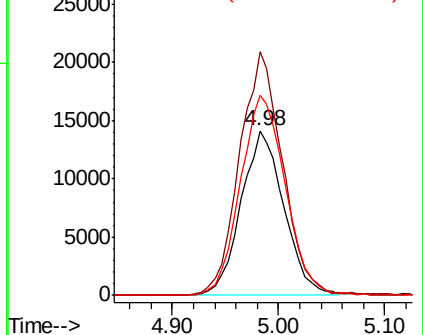
130 127.6 0.0 318.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#6

Chloroethane

Concen: 9.356 ug/l

RT: 1.40 min Scan# 52

Delta R.T. -0.31 min

Lab File: VX017148.D

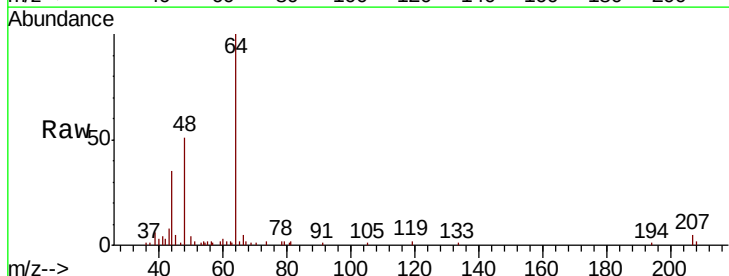
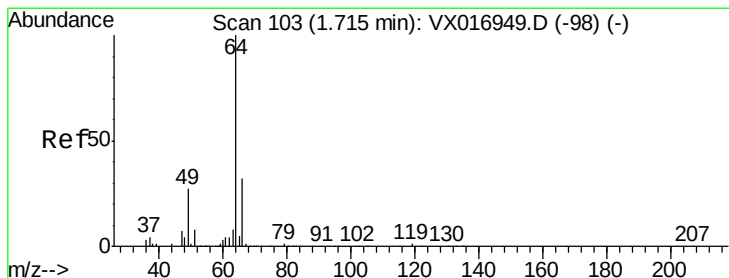
Acq: 02 Jul 2020 15:09

Tgt Ion: 64 Resp: 16193

Ion Ratio Lower Upper

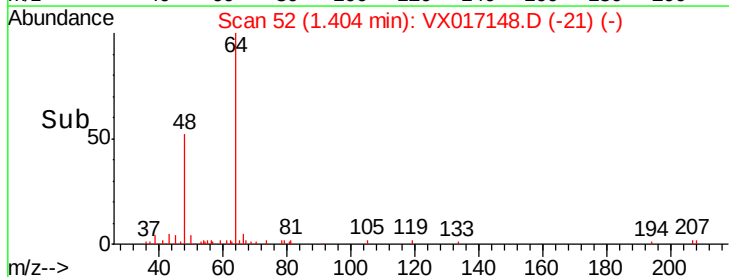
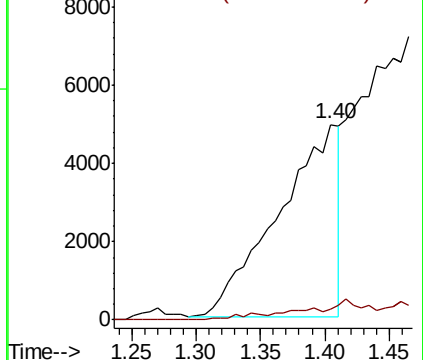
64 100

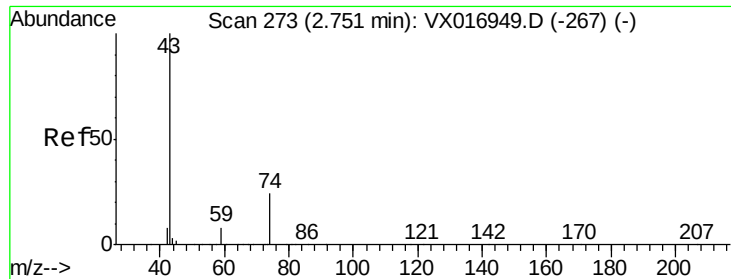
66 5.3 26.1 39.1#



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0

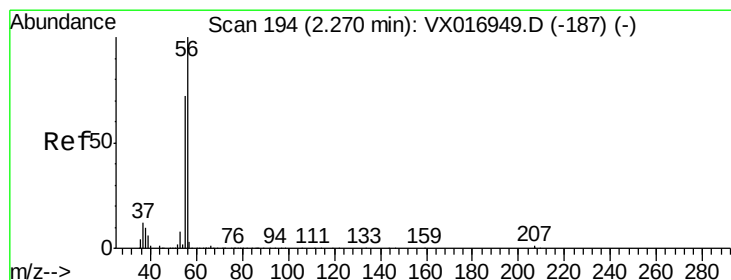
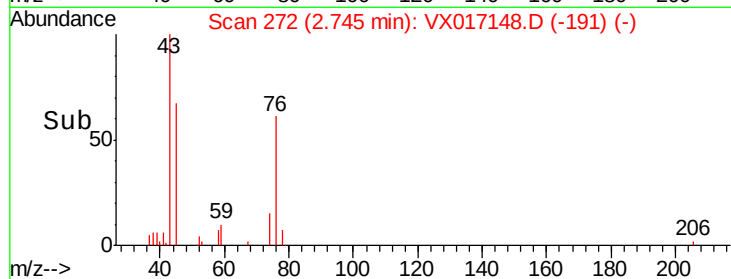
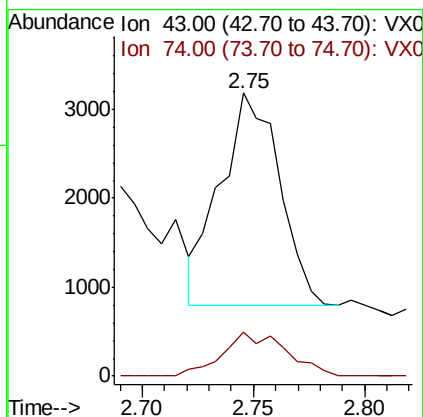
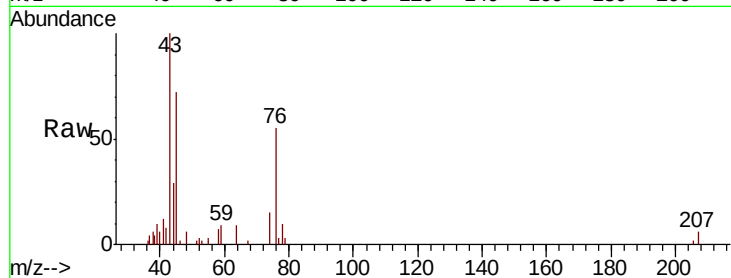




#12
Methyl Acetate
Concen: 1.520 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

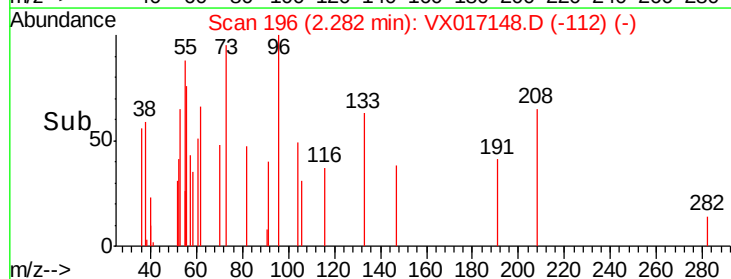
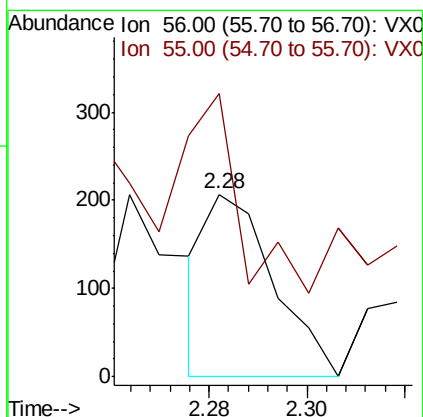
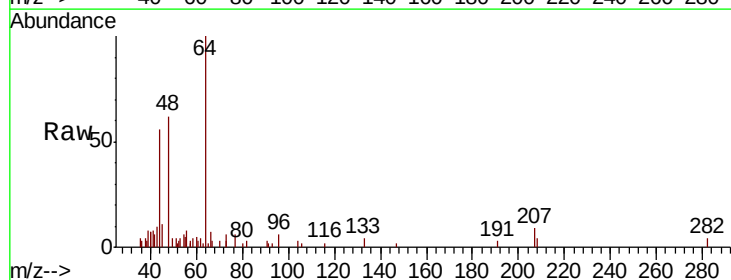
Instrument :
MSVOA_X
ClientSampleId :
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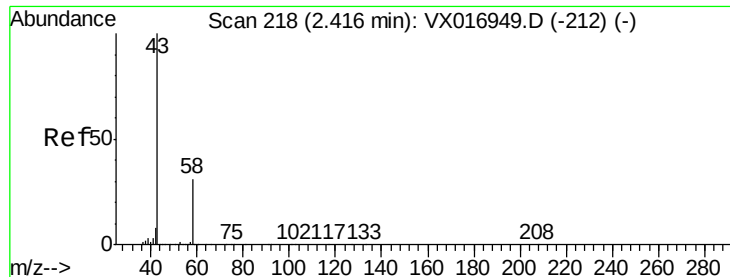
Tot Ion: 43 Resp: 4379
Ion Ratio Lower Upper
43 100
74 21.5 19.1 28.7



#13
Acrolein
Concen: 0.431 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

Tgt Ion: 56 Resp: 196
Ion Ratio Lower Upper
56 100
55 71.9 56.2 84.4





#15

Acetone

Concen: 5914.948 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX017148.D

Acq: 02 Jul 2020 15:09

Instrument :

MSVOA_X

ClientSampleId :

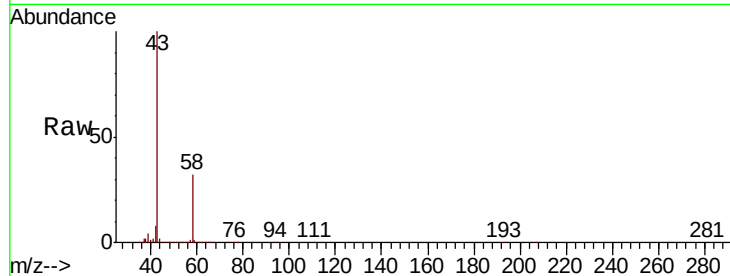
002-35TH-AVE-(JULY)

Tot Ion: 58 Resp: 2089145

Ion Ratio Lower Upper

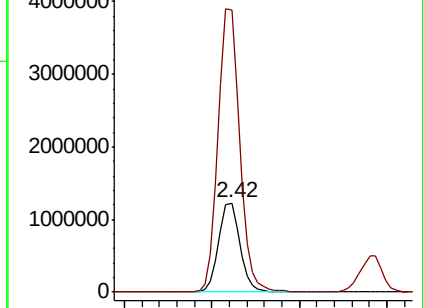
58 100

43 316.9 257.6 386.4

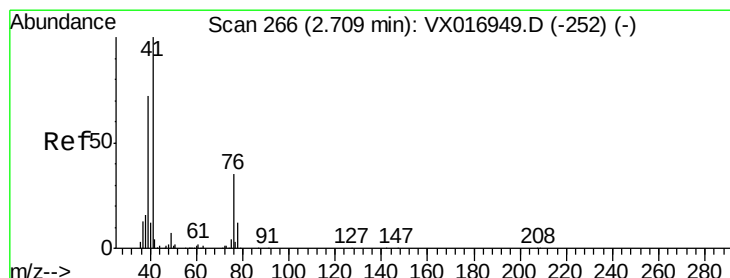
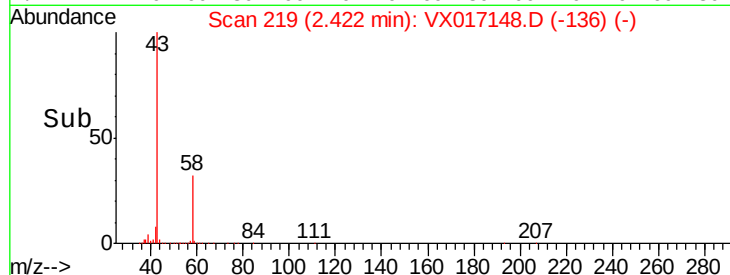


Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



Time--> 2.30 2.40 2.50 2.60



#17

Allyl chloride

Concen: 0.258 ug/l

RT: 2.68 min Scan# 262

Delta R.T. -0.02 min

Lab File: VX017148.D

Acq: 02 Jul 2020 15:09

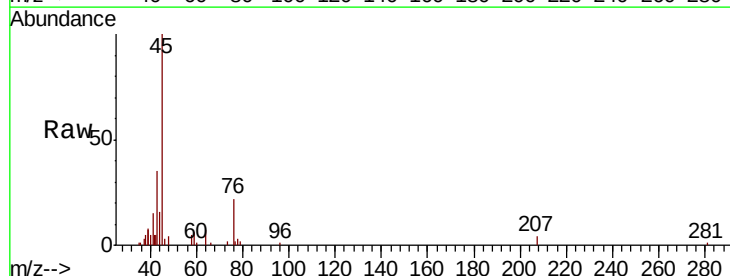
Tgt Ion: 41 Resp: 1103

Ion Ratio Lower Upper

41 100

39 85.2 35.9 107.8

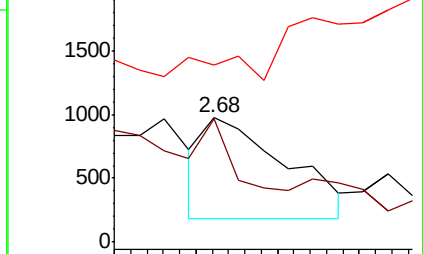
76 0.0 17.6 52.8#



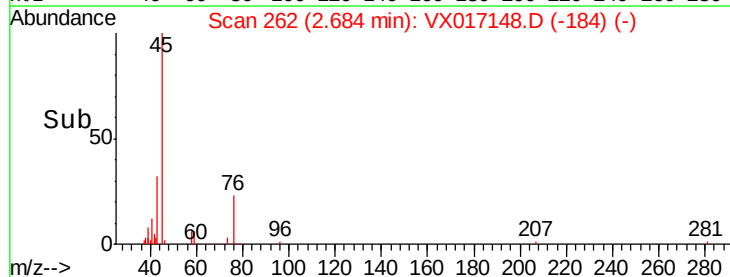
Abundance Ion 41.00 (40.70 to 41.70): VX0

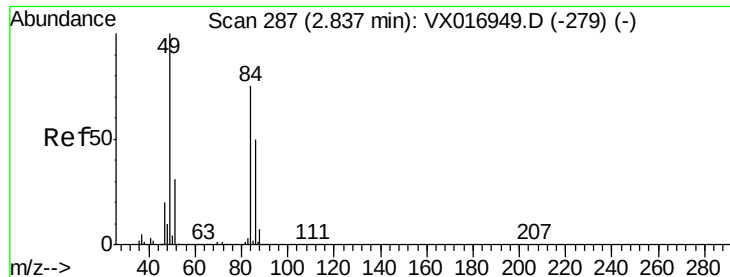
Ion 39.00 (38.70 to 39.70): VX0

Ion 76.00 (75.70 to 76.70): VX0



Time--> 2.66 2.68 2.70 2.72

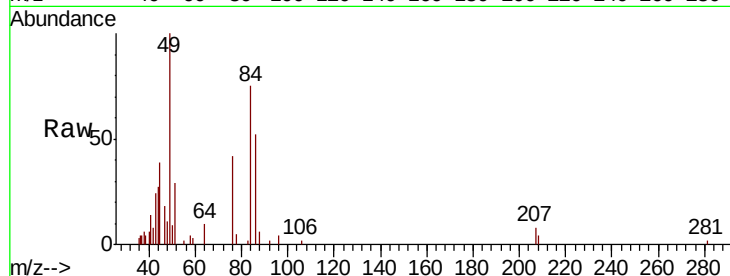




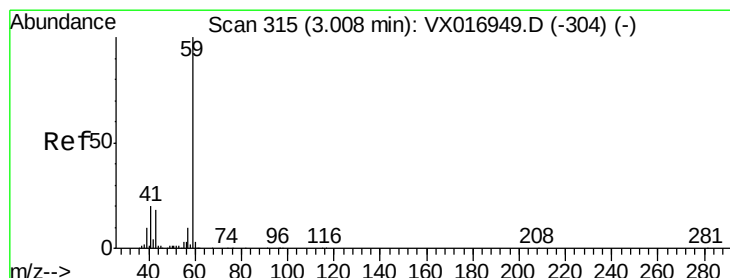
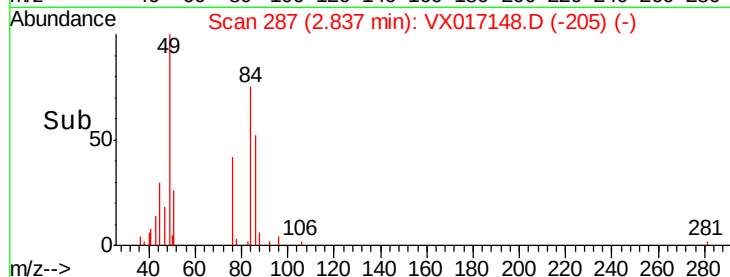
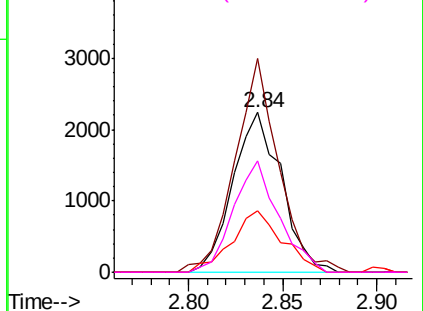
#18
Methylene Chloride
Concen: 1.450 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JULY)

Tot Ion: 84 Resp: 3989
Ion Ratio Lower Upper
84 100
49 131.0 106.6 159.8
51 38.7 32.7 49.1
86 70.2 53.0 79.6

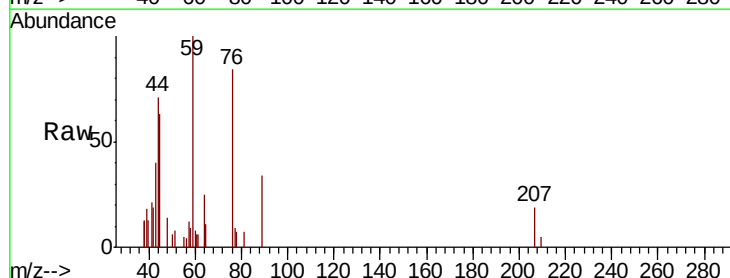


Abundance Ion 84.00 (83.70 to 84.70): VX0
Ion 49.00 (48.70 to 49.70): VX0
Ion 51.00 (50.70 to 51.70): VX0
Ion 86.00 (85.70 to 86.70): VX0

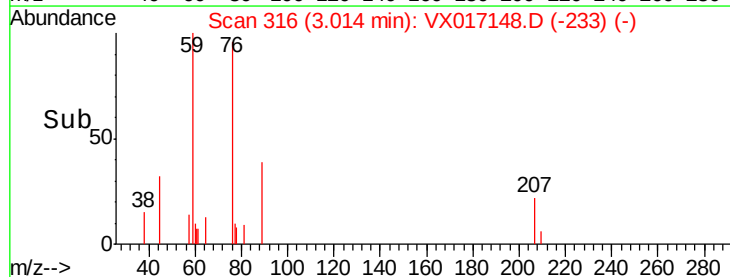
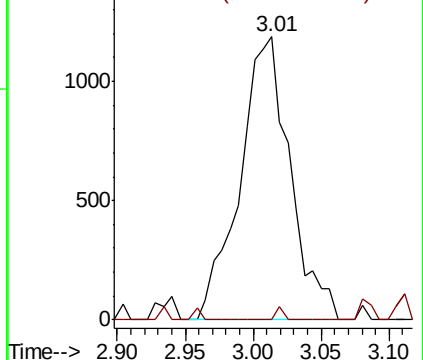


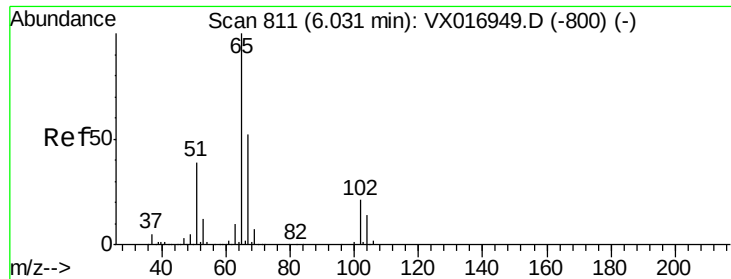
#23
tert-Butyl Alcohol
Concen: 5.090 ug/l
RT: 3.01 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

Tgt Ion: 59 Resp: 3077
Ion Ratio Lower Upper
59 100
52 1.7 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 27.543 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017148.D

Acq: 02 Jul 2020 15:09

Instrument :

MSVOA_X

ClientSampleId :

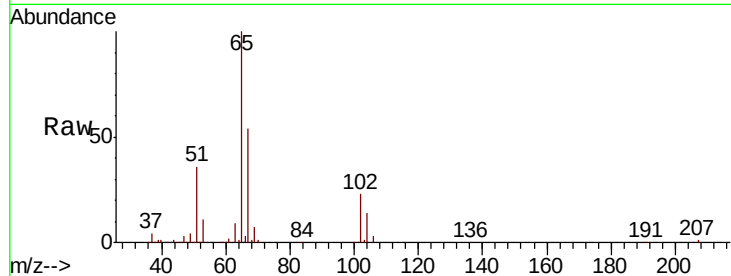
002-35TH-AVE-(JULY)

Tot Ion: 65 Resp: 85549

Ion Ratio Lower Upper

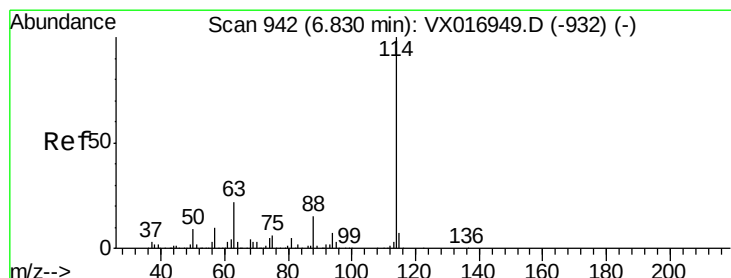
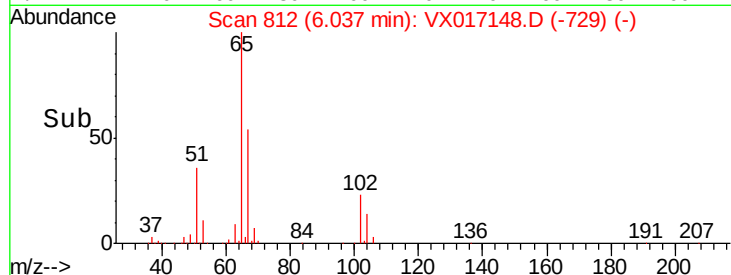
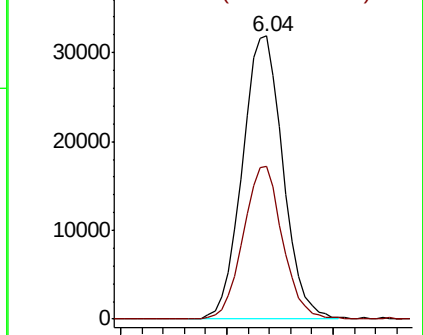
65 100

67 52.0 41.5 62.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017148.D

Acq: 02 Jul 2020 15:09

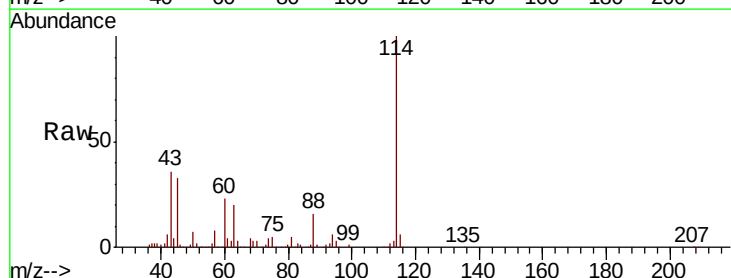
Tgt Ion: 114 Resp: 216396

Ion Ratio Lower Upper

114 100

63 19.7 17.4 26.2

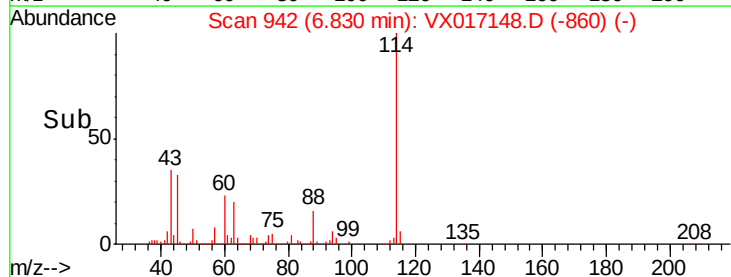
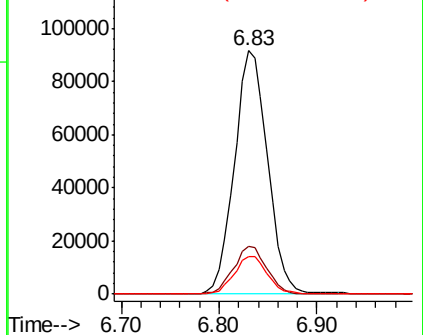
88 15.5 13.0 19.6

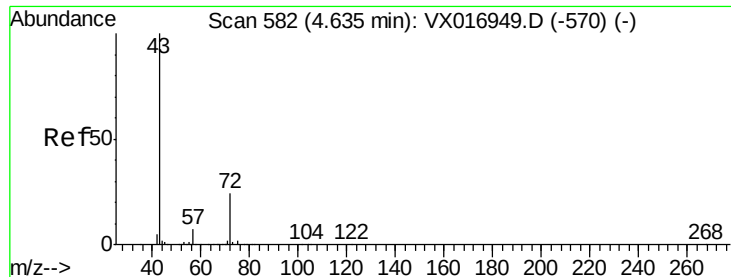


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

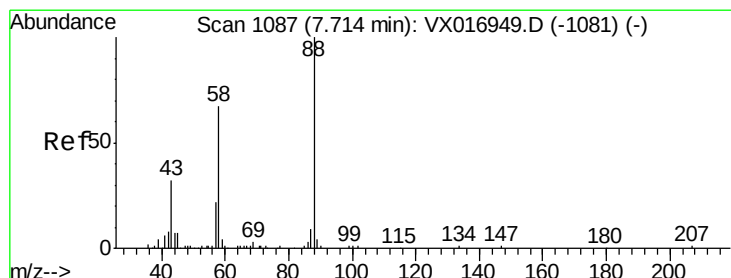
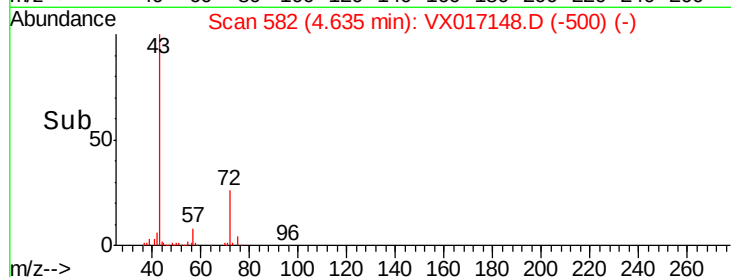
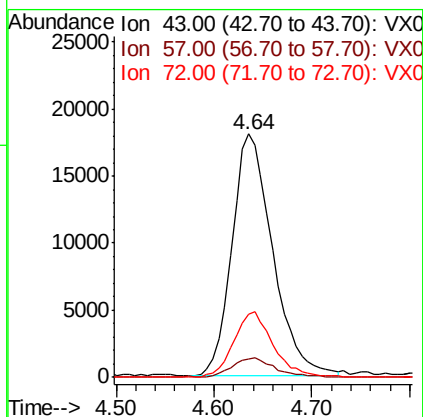
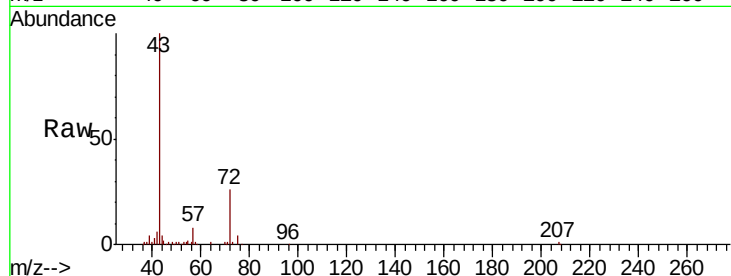




#30
2-Butanone
Concen: 28.148 ug/l
RT: 4.64 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

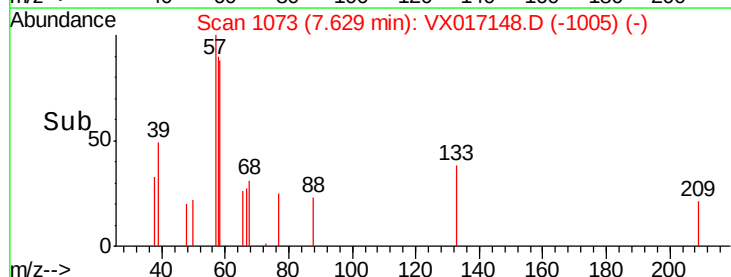
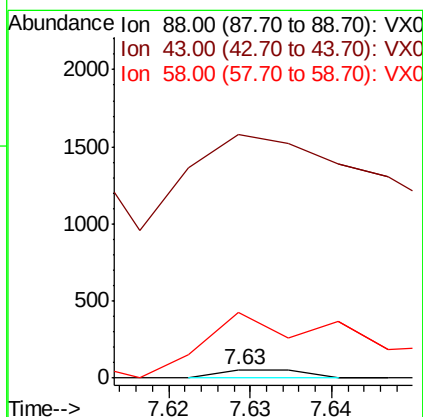
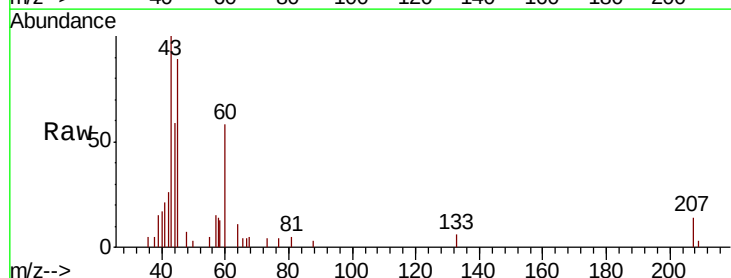
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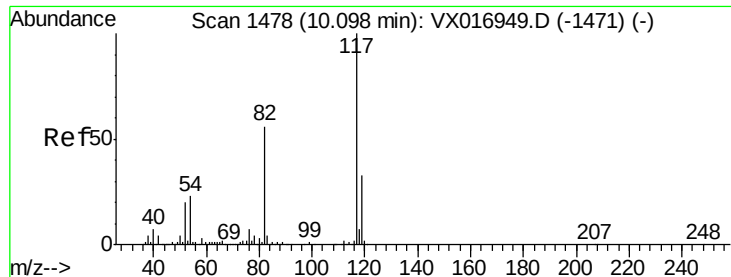
Tot Ion: 43 Resp: 51722
Ion Ratio Lower Upper
43 100
57 8.5 6.2 9.4
72 26.3 20.6 31.0



#45
1,4-Dioxane
Concen: 0.616 ug/l
RT: 7.63 min Scan# 1073
Delta R.T. -0.09 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

Tgt Ion: 88 Resp: 39
Ion Ratio Lower Upper
88 100
43 2389.7 28.9 43.3#
58 1310.3 56.7 85.1#

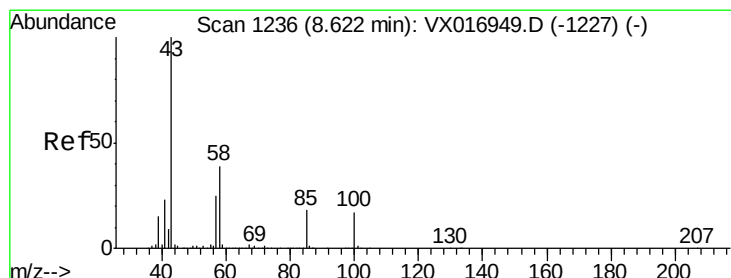
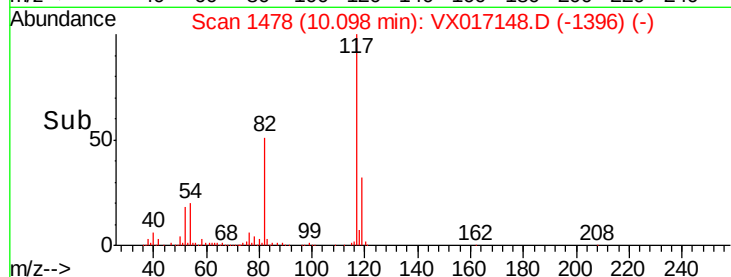
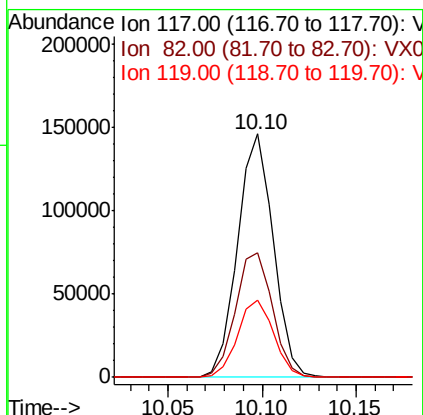
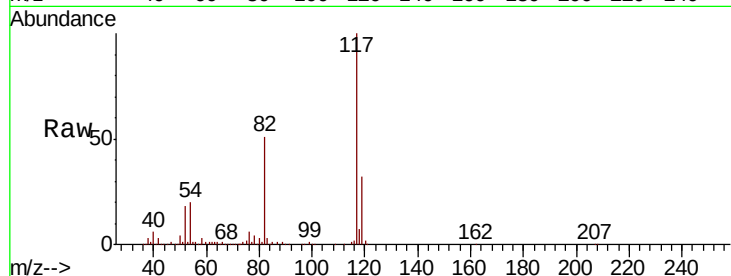




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

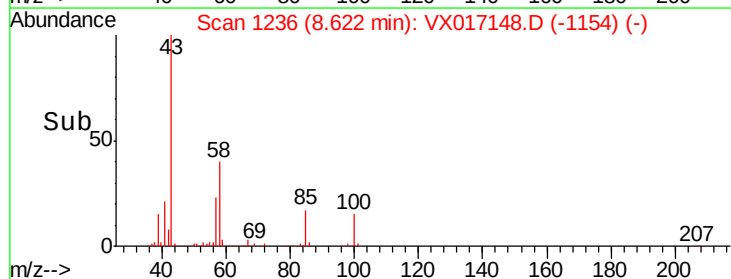
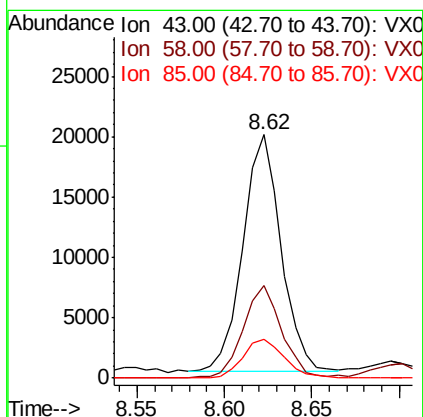
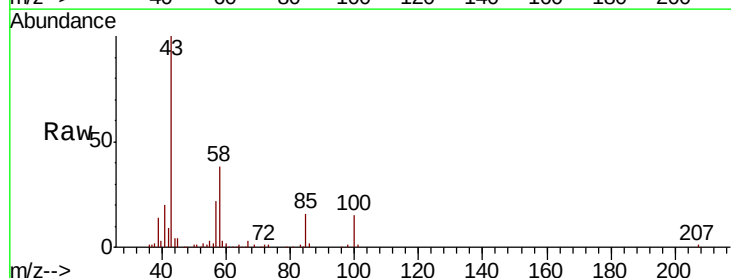
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JULY)

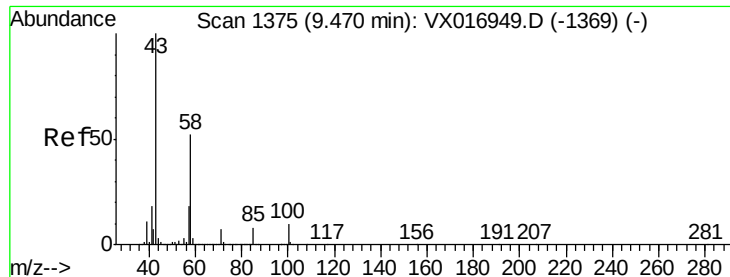
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	44.9	67.3
119	32.2	25.8	38.8



#58
4-Methyl-2-Pentanone
Concen: 8.341 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.7	30.4	45.6
85	18.0	13.5	20.3

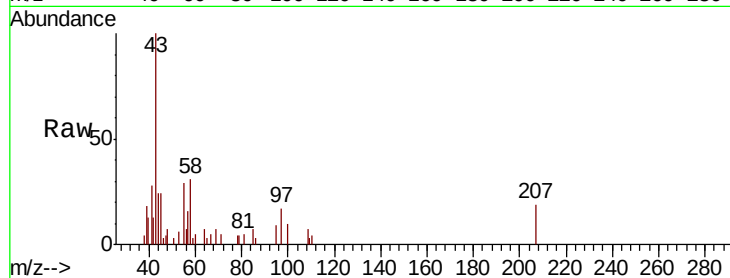




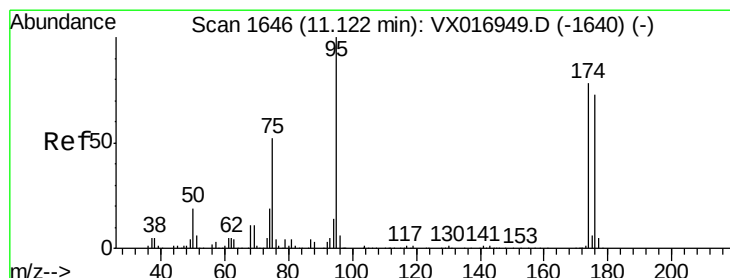
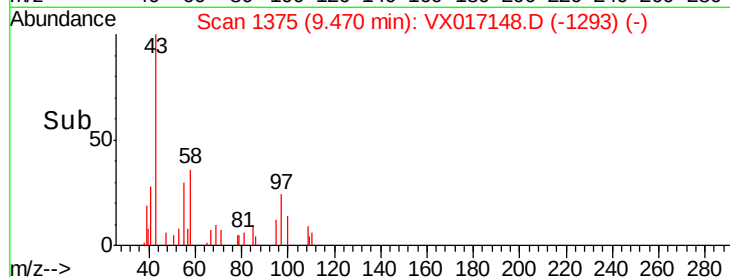
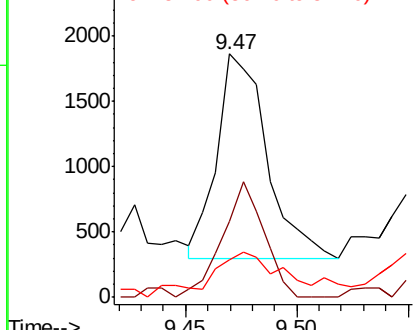
#59
2-Hexanone
Concen: 0.924 ug/l
RT: 9.47 min Scan# 1375
Delta R.T. -0.00 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JULY)

Tot Ion: 43 Resp: 2443
Ion Ratio Lower Upper
43 100
58 47.1 42.3 63.5
57 23.6 14.1 21.1#

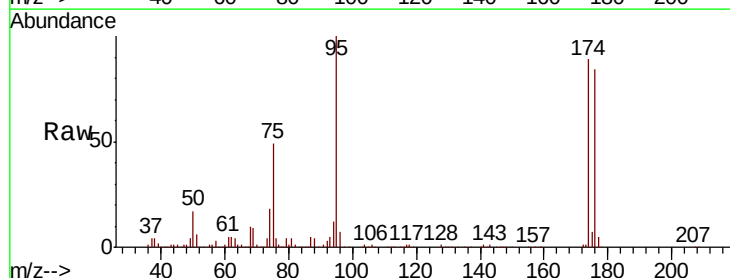


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

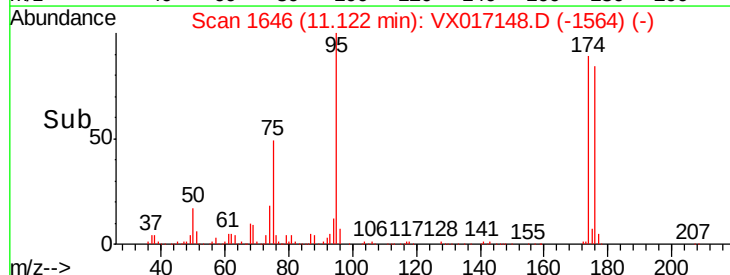
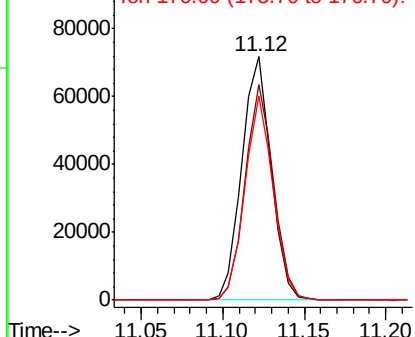


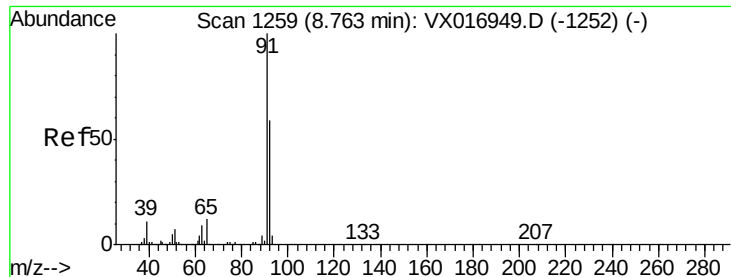
#60
4-Bromofluorobenzene
Concen: 28.240 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

Tgt Ion: 95 Resp: 90564
Ion Ratio Lower Upper
95 100
174 86.0 62.2 93.4
176 80.7 58.9 88.3



Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#62

Toluene

Concen: 65.533 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX017148.D

Acq: 02 Jul 2020 15:09

Instrument :

MSVOA_X

ClientSampleId :

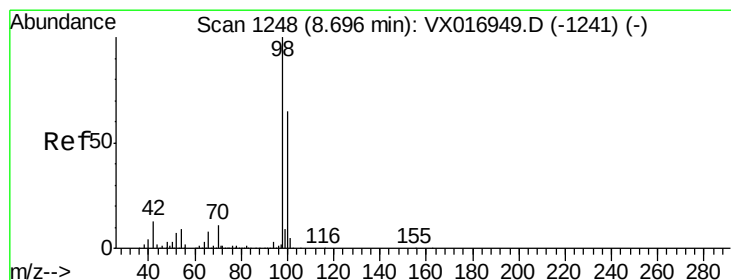
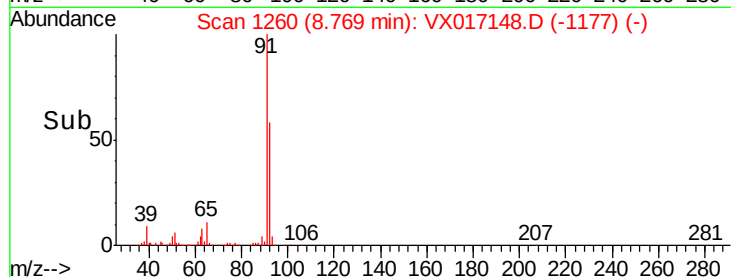
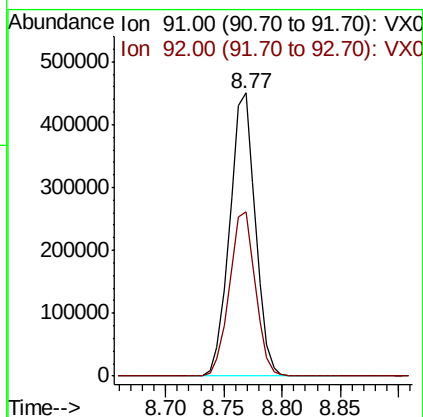
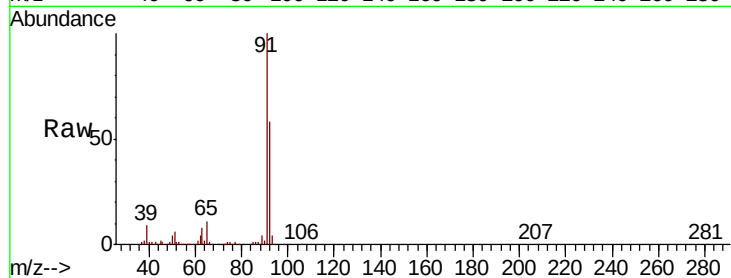
002-35TH-AVE-(JULY)

Tot Ion: 91 Resp: 689266

Ion Ratio Lower Upper

91 100

92 59.0 46.8 70.2



#63

Toluene-d8

Concen: 28.772 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017148.D

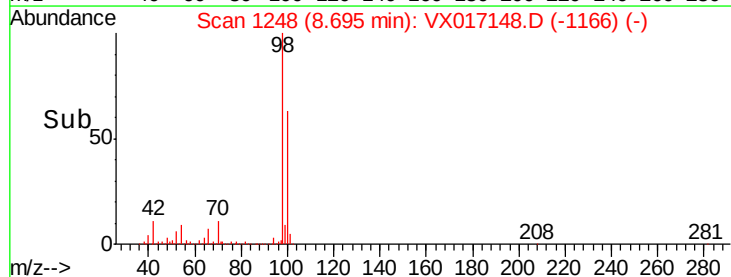
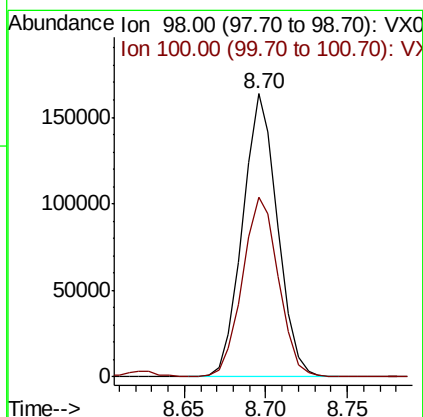
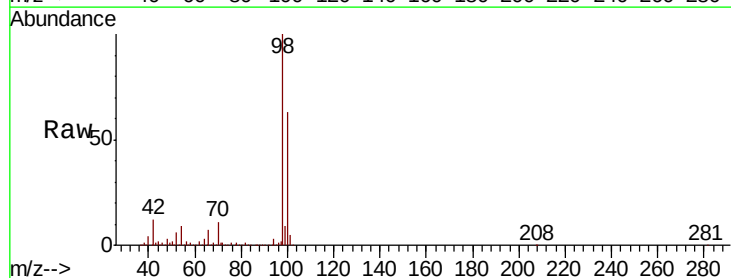
Acq: 02 Jul 2020 15:09

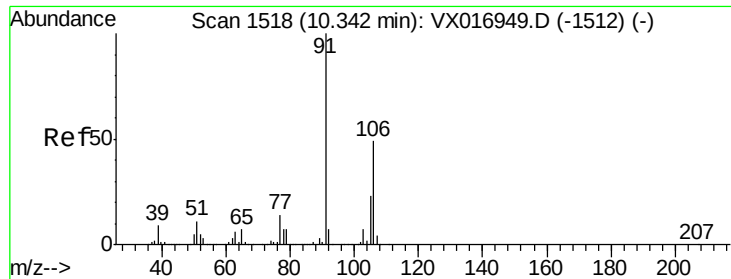
Tgt Ion: 98 Resp: 243890

Ion Ratio Lower Upper

98 100

100 65.6 52.3 78.5

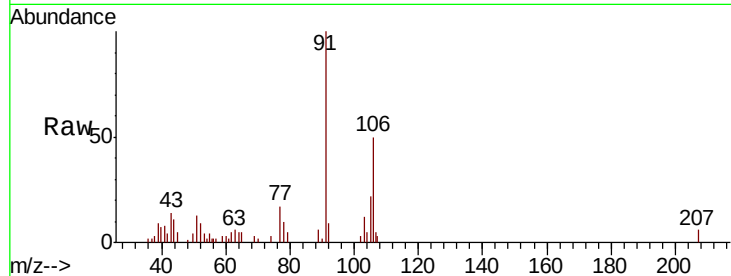




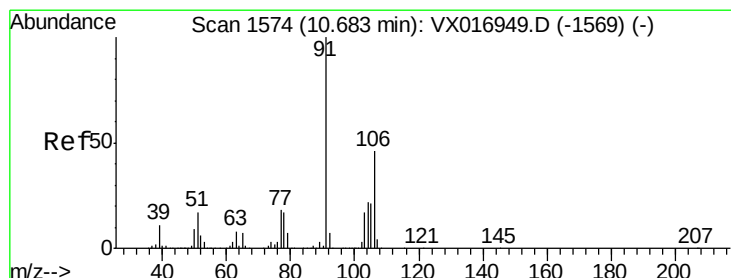
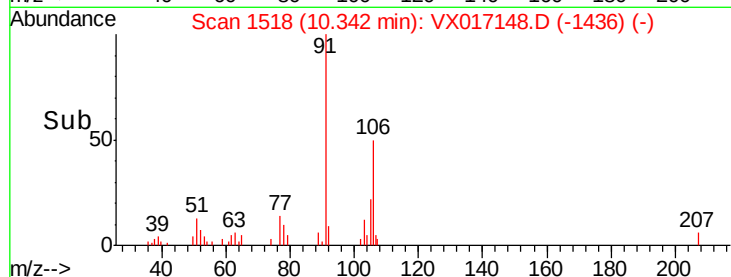
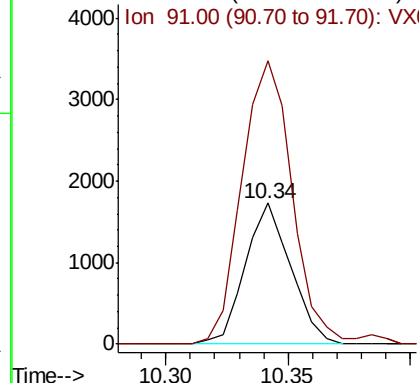
#67
m/p-Xylenes
Concen: 0.510 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JULY)

Tot Ion:106 Resp: 2245
Ion Ratio Lower Upper
106 100
91 221.1 164.5 246.7

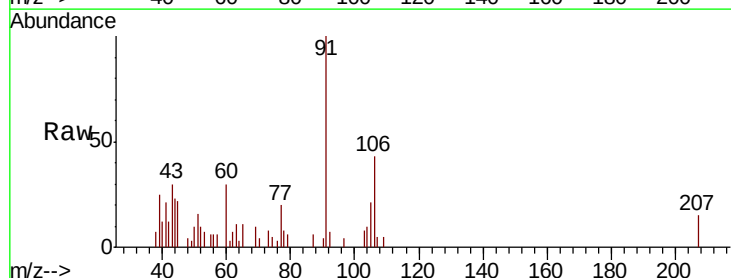


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

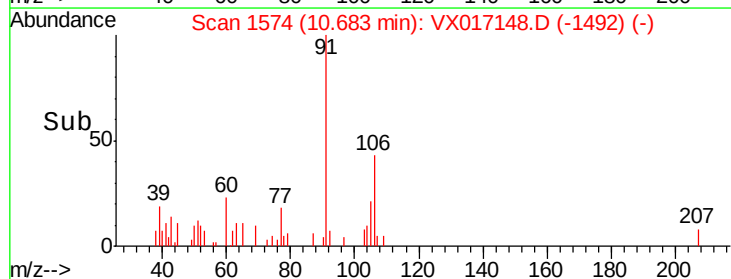
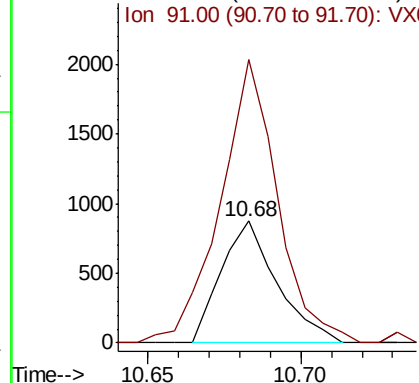


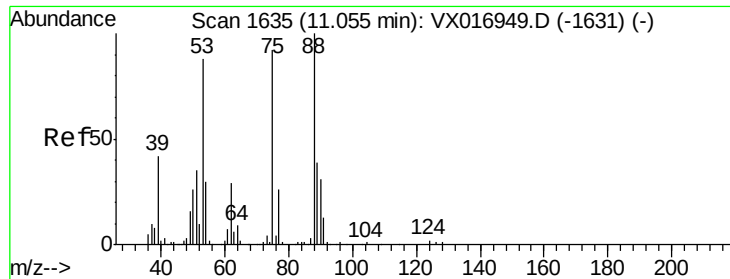
#68
o-Xylene
Concen: 0.261 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

Tgt Ion:106 Resp: 1105
Ion Ratio Lower Upper
106 100
91 238.3 107.3 321.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

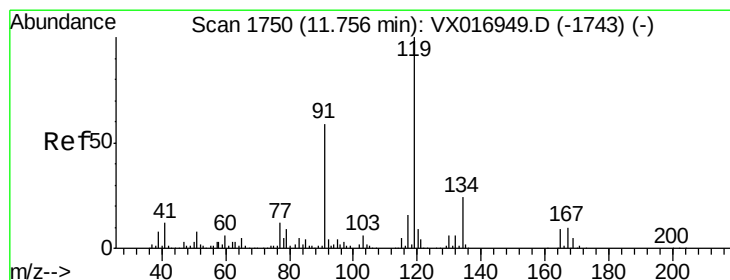
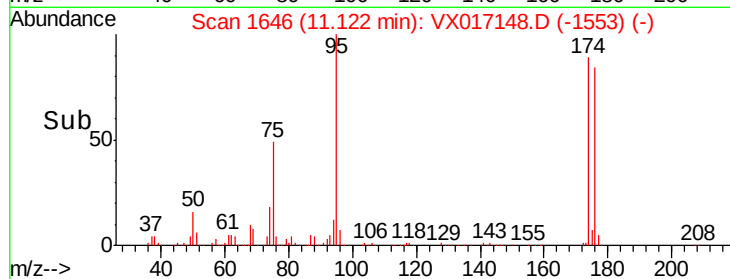
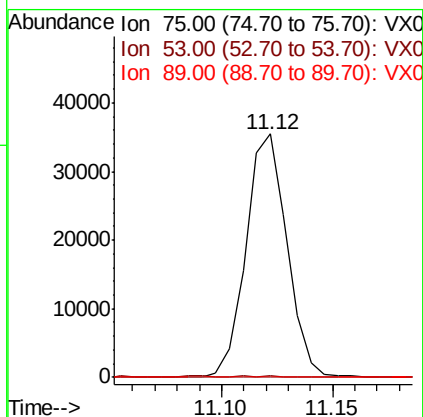
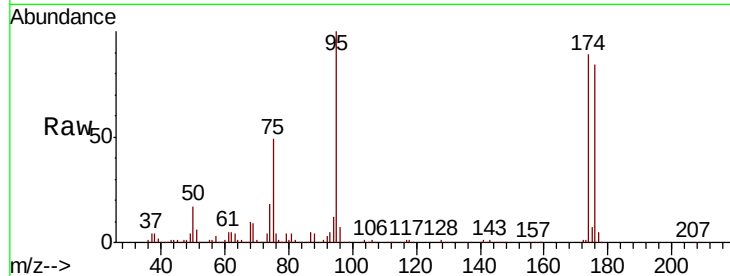




#77
t-1,4-Dichloro-2-butene
Concen: 33.257 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

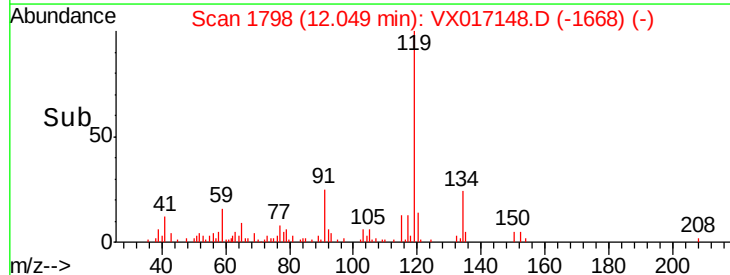
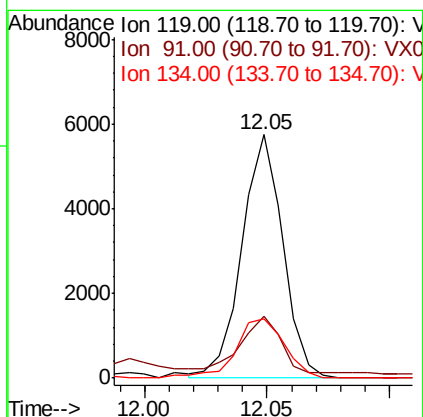
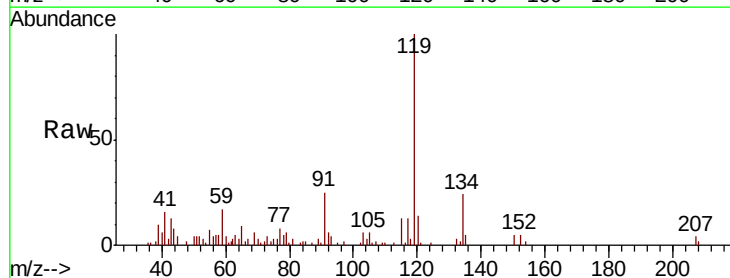
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JULY)

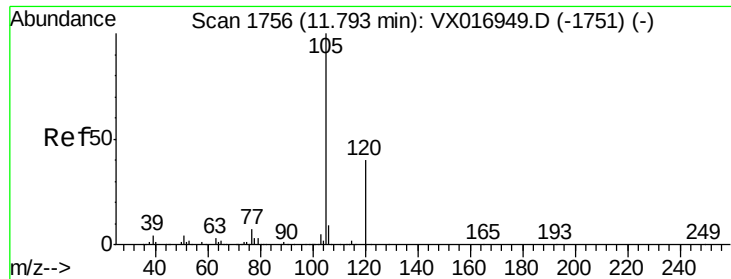
Tot Ion: 75 Resp: 45567
Ion Ratio Lower Upper
75 100
53 0.7 47.6 142.9#
89 0.2 21.1 63.4#



#79
tert-butylbenzene
Concen: 0.725 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. 0.29 min
Lab File: VX017148.D
Acq: 02 Jul 2020 15:09

Tgt Ion: 119 Resp: 6683
Ion Ratio Lower Upper
119 100
91 23.2 0.0 115.2
134 28.9 0.0 45.8

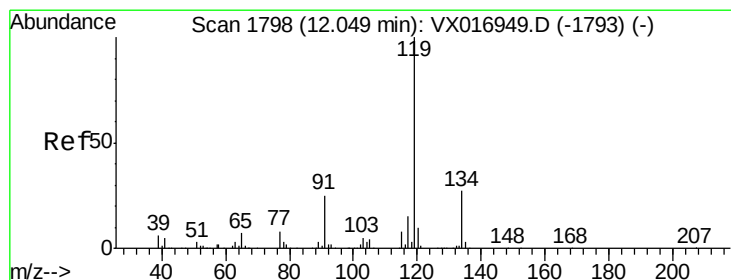
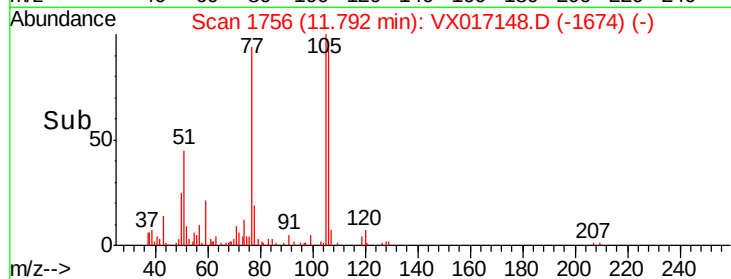
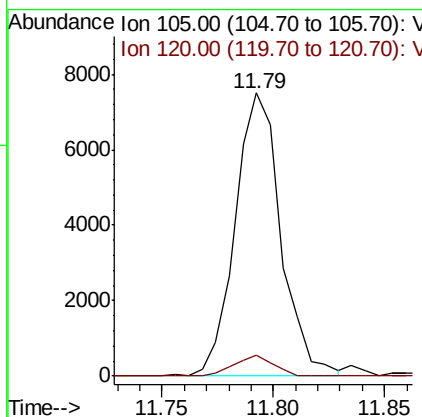
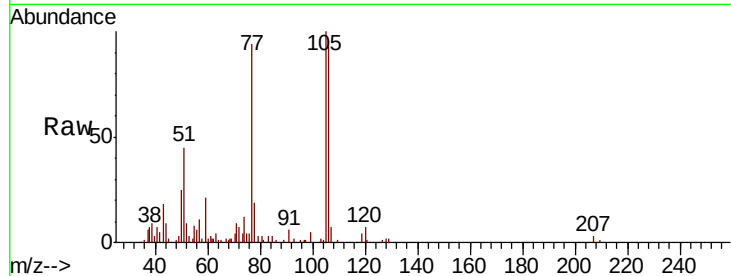




#80
 1,2,4-Trimethylbenzene
 Concen: 1.112 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX017148.D
 Acq: 02 Jul 2020 15:09

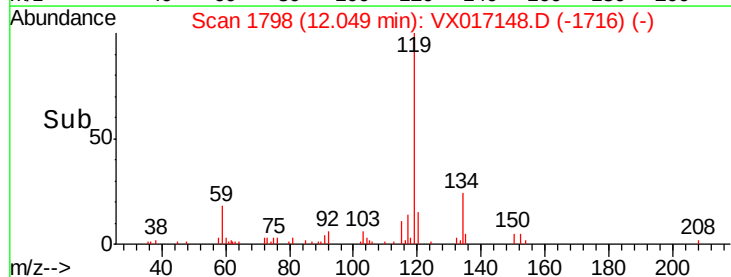
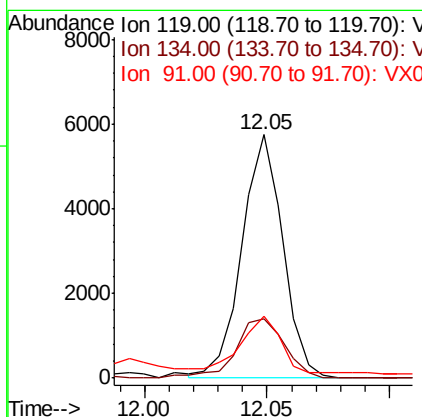
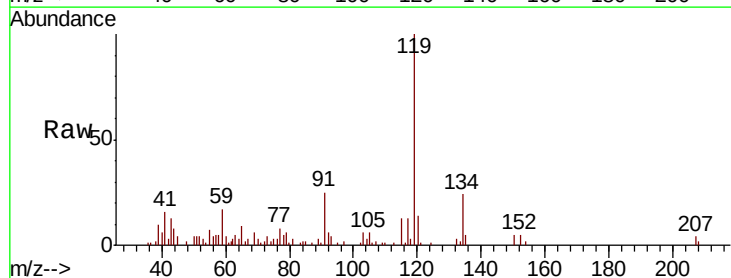
Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE-(JULY)

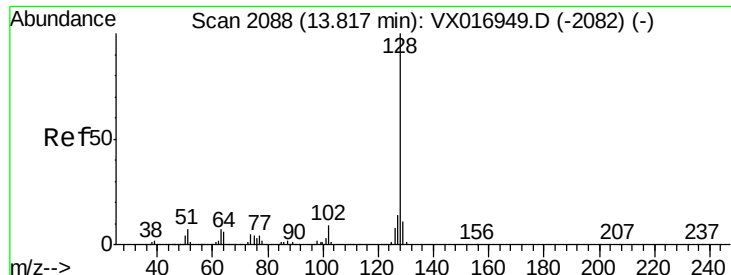
Tot Ion:105 Resp: 10739
 Ion Ratio Lower Upper
 105 100
 120 6.2 0.0 89.8



#82
 p-Isopropyltoluene
 Concen: 0.663 ug/l
 RT: 12.05 min Scan# 1798
 Delta R.T. -0.00 min
 Lab File: VX017148.D
 Acq: 02 Jul 2020 15:09

Tgt Ion:119 Resp: 6683
 Ion Ratio Lower Upper
 119 100
 134 28.9 0.0 53.0
 91 23.7 0.0 49.0





#91

Napthalene

Concen: 0.221 ug/l

RT: 13.82 min Scan# 2089

Delta R.T. 0.01 min

Lab File: VX017148.D

Acq: 02 Jul 2020 15:09

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE-(JULY)

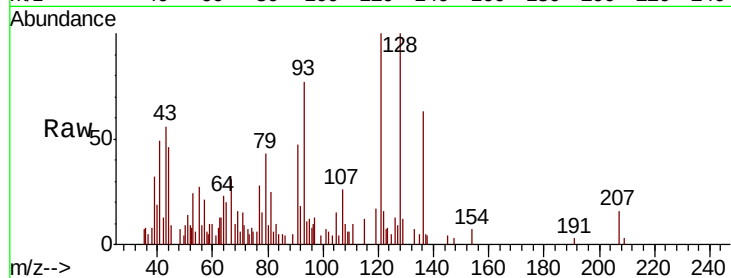
Tot Ion:128 Resp: 2373

Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

129 15.4 9.0 13.4



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

