

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070220\
 Data File : VX017145.D
 Acq On : 02 Jul 2020 14:01
 Operator : JC/SP
 Sample : L3194-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 03 00:48:30 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	4.99	128	40498	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	199111	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	191575	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	88546	28.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.63%
60) 4-Bromofluorobenzene	11.12	95	84998	26.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.67%
63) Toluene-d8	8.70	98	237158	28.08	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	93.60%

Target Compounds

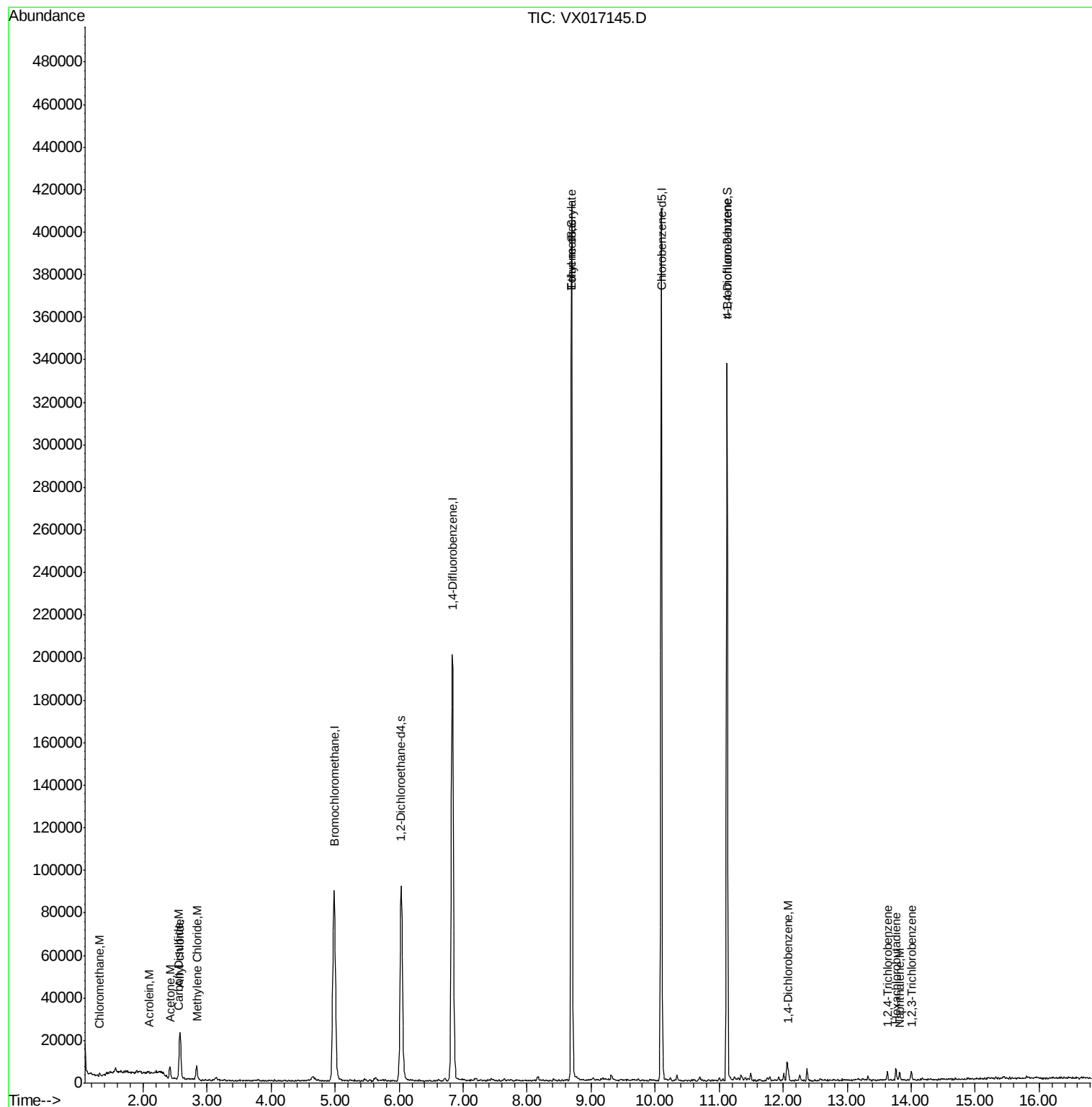
					Ovalue
3) Chloromethane	1.32	50	1053	0.394 ug/l	89
13) Acrolein	2.09	56	93	0.202 ug/l	92
15) Acetone	2.42	58	1765	4.924 ug/l	84
16) Carbon Disulfide	2.56	76	2142	0.294 ug/l #	68
17) Allyl chloride	2.57	41	2275	0.524 ug/l	86
18) Methylene Chloride	2.84	84	2926	1.048 ug/l	86
51) Ethyl methacrylate	8.70	69	1043	0.287 ug/l	92
77) t-1,4-Dichloro-2-butene	11.12	75	41997	30.767 ug/l #	12
84) 1,4-Dichlorobenzene	12.08	146	1177	0.227 ug/l	93
89) 1,2,4-Trichlorobenzene	13.63	180	1159	0.355 ug/l	97
90) Hexachlorobutadiene	13.76	225	767	0.618 ug/l	94
91) Naphthalene	13.82	128	2177	0.204 ug/l #	91
92) 1,2,3-Trichlorobenzene	14.01	180	1036	0.325 ug/l	93

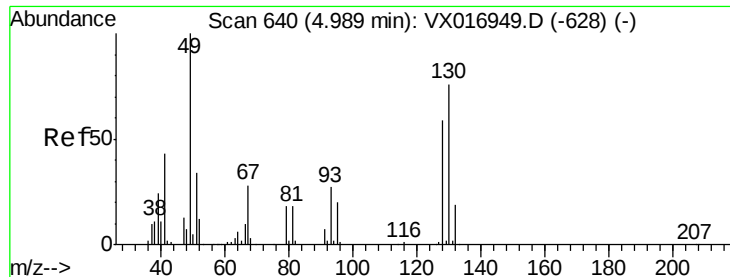
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jul 03 00:48:30 2020
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.99 min Scan# 640

Delta R.T. -0.00 min

Lab File: VX017145.D

Acq: 02 Jul 2020 14:01

Instrument :

MSVOA_X

ClientSampled :

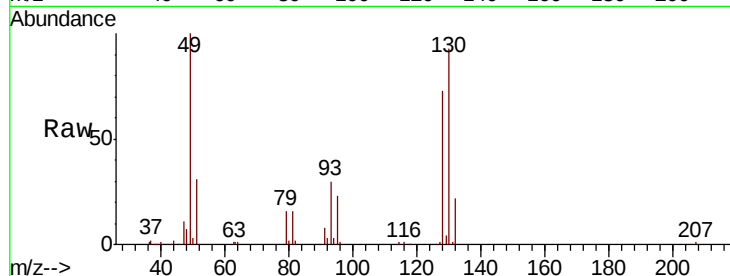
Tot Ion:128 Resp: 40498

Ion Ratio Lower Upper

128 100

49 145.1 0.0 428.0

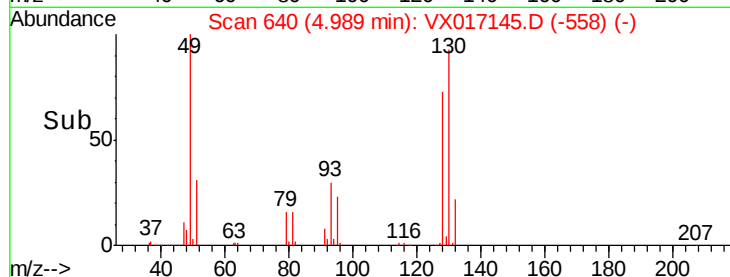
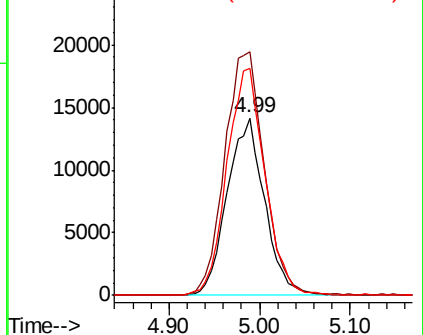
130 130.0 0.0 318.0



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



#3

Chloromethane

Concen: 0.394 ug/l

RT: 1.32 min Scan# 38

Delta R.T. -0.00 min

Lab File: VX017145.D

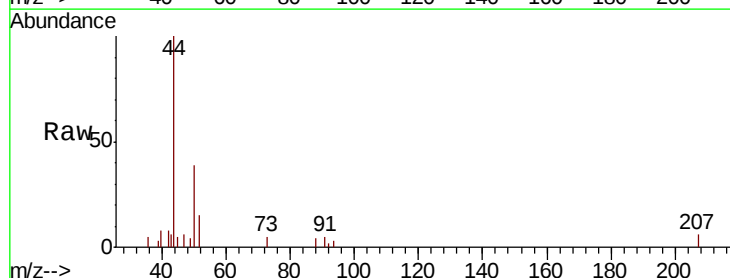
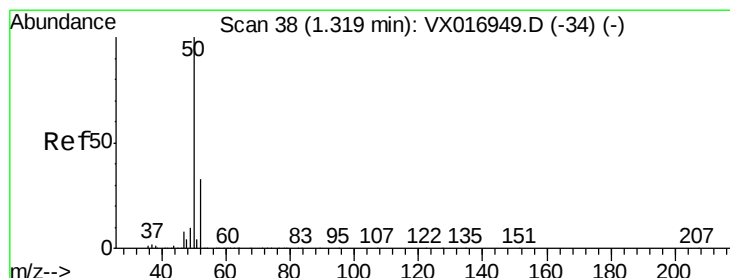
Acq: 02 Jul 2020 14:01

Tgt Ion: 50 Resp: 1053

Ion Ratio Lower Upper

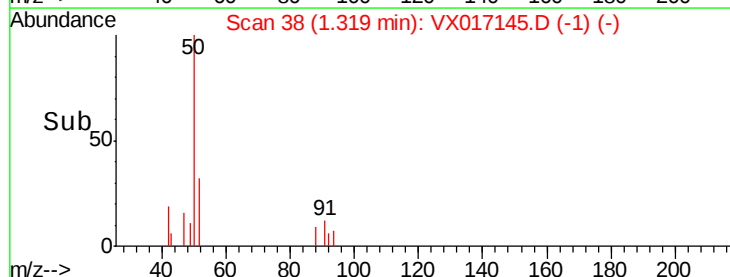
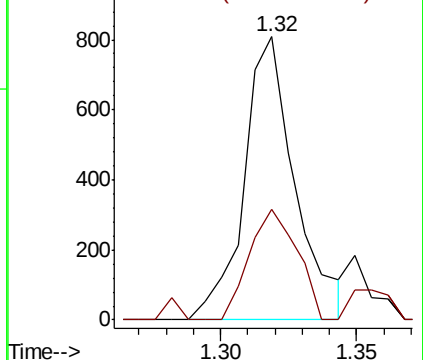
50 100

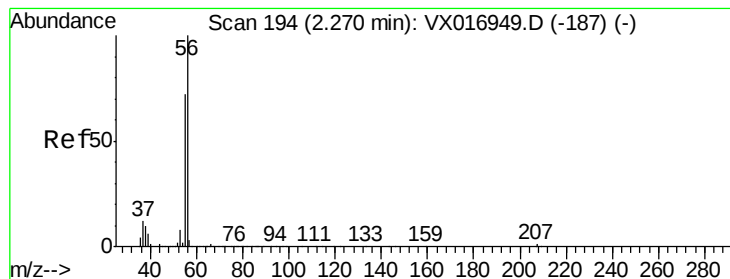
52 39.1 26.5 39.7



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#13

Acrolein

Concen: 0.202 ug/l

RT: 2.09 min Scan# 164

Delta R.T. -0.18 min

Lab File: VX017145.D

Acq: 02 Jul 2020 14:01

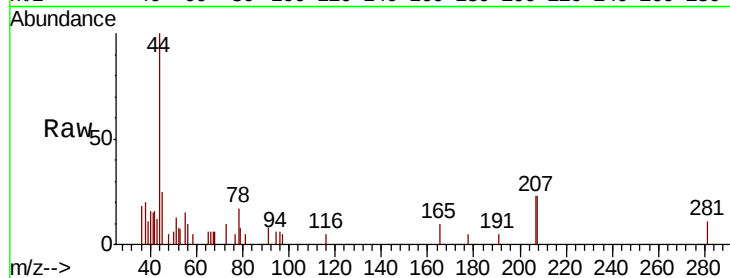
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 93

Ion Ratio Lower Upper

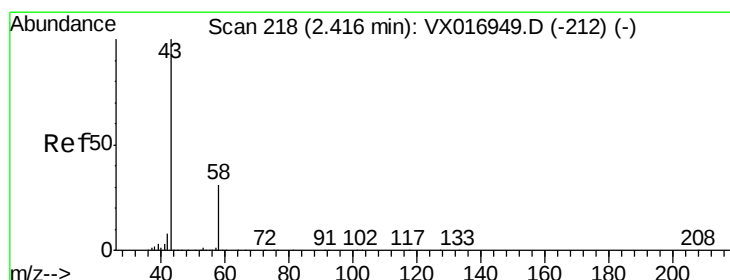
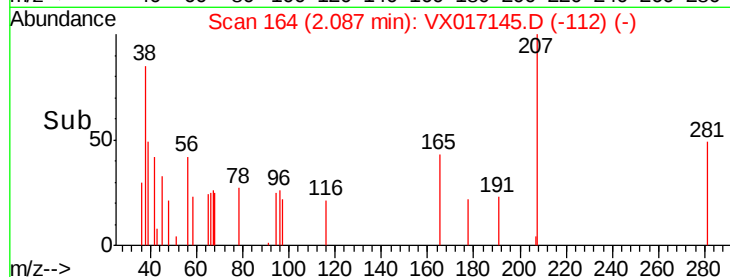
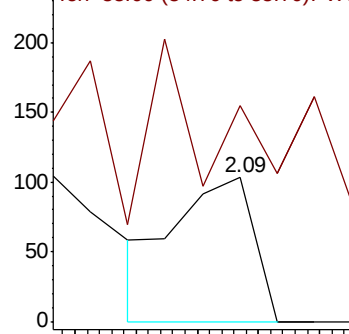
56 100

55 63.4 56.2 84.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acetone

Concen: 4.924 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX017145.D

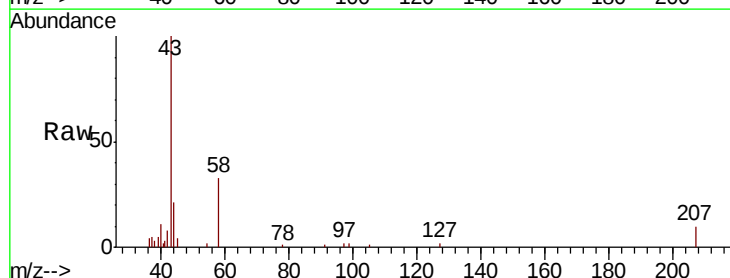
Acq: 02 Jul 2020 14:01

Tgt Ion: 58 Resp: 1765

Ion Ratio Lower Upper

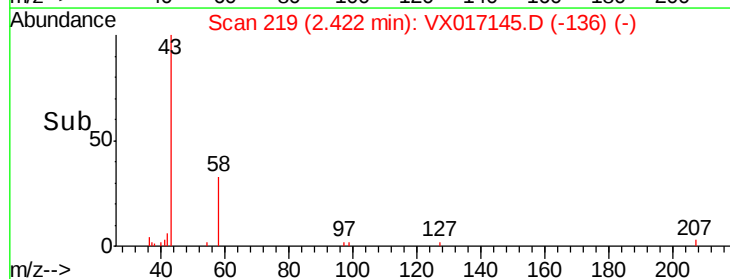
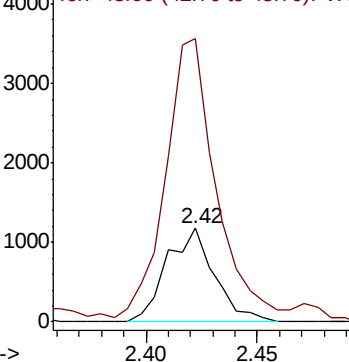
58 100

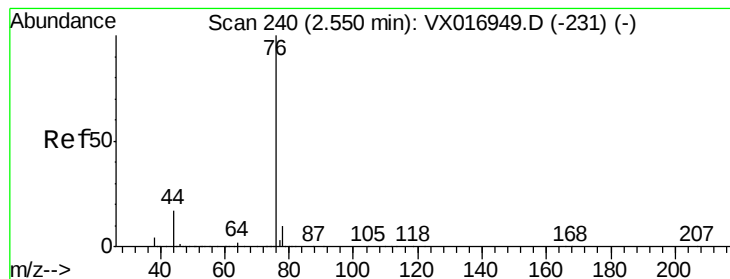
43 289.8 257.6 386.4



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#16

Carbon Disulfide

Concen: 0.294 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017145.D

Acq: 02 Jul 2020 14:01

Instrument :

MSVOA_X

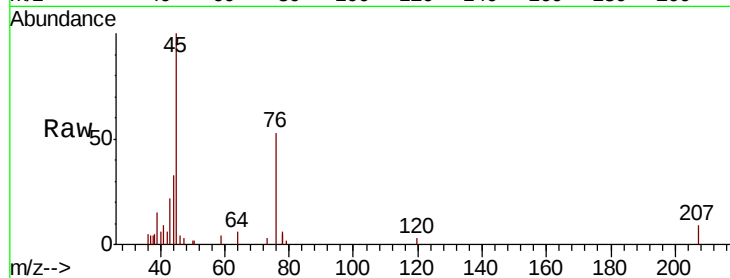
ClientSampleId :

Tot Ion: 76 Resp: 2142

Ion Ratio Lower Upper

76 100

78 21.4 7.6 11.4#



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

2.56

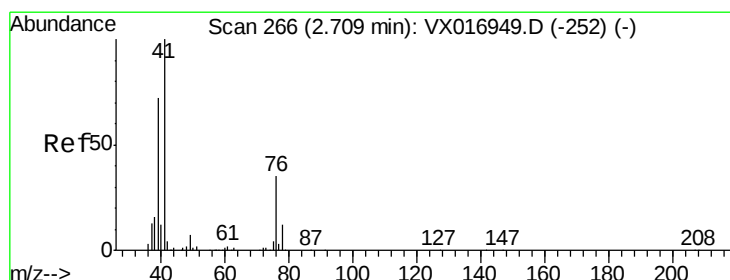
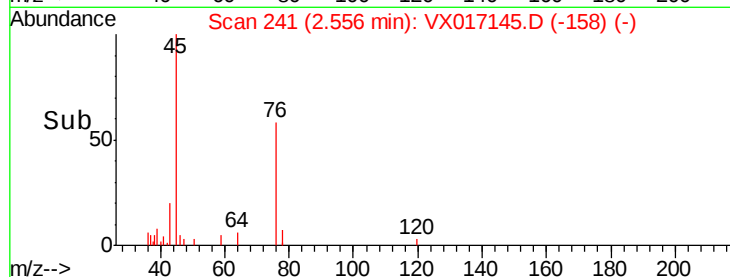
1500

1000

500

0

Time--> 2.50 2.55 2.60



#17

Allyl chloride

Concen: 0.524 ug/l

RT: 2.57 min Scan# 244

Delta R.T. -0.13 min

Lab File: VX017145.D

Acq: 02 Jul 2020 14:01

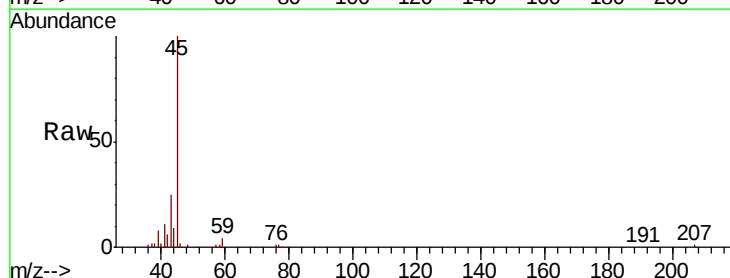
Tgt Ion: 41 Resp: 2275

Ion Ratio Lower Upper

41 100

39 78.6 35.9 107.8

76 19.8 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

2.57

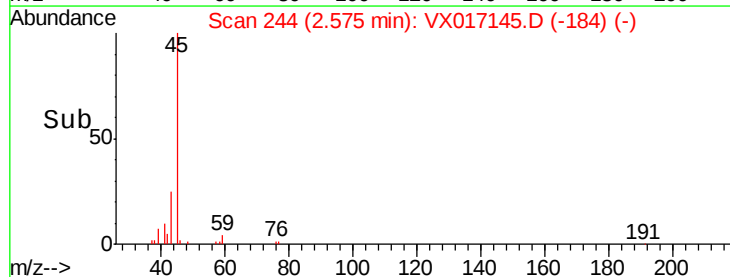
1500

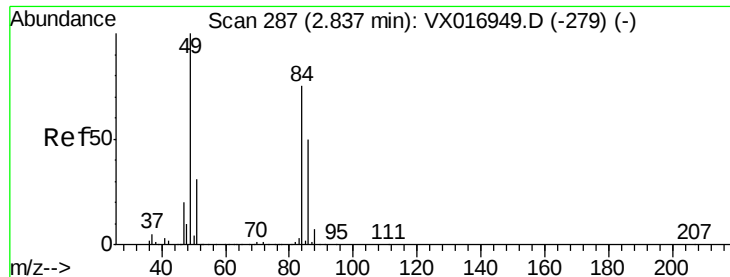
1000

500

0

Time--> 2.50 2.55 2.60

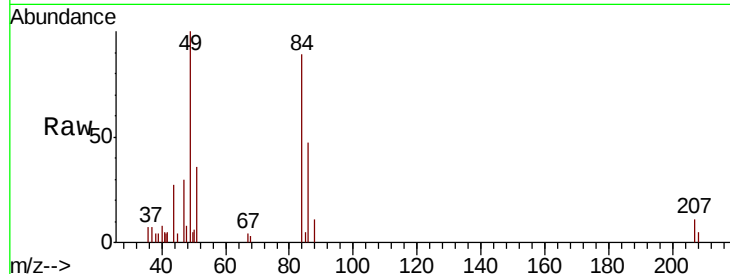




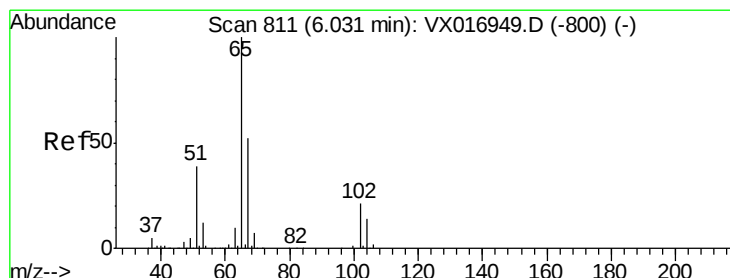
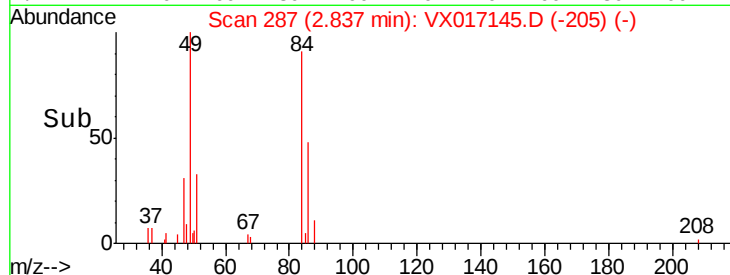
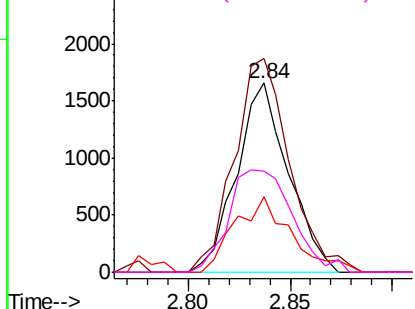
#18
Methylene Chloride
Concen: 1.048 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX017145.D
Acq: 02 Jul 2020 14:01

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 84 Resp: 2926
Ion Ratio Lower Upper
84 100
49 112.9 106.6 159.8
51 40.2 32.7 49.1
86 53.2 53.0 79.6

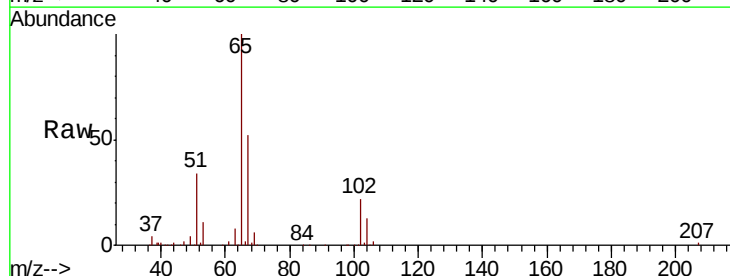


Abundance Ion 84.00 (83.70 to 84.70): VX0
Ion 49.00 (48.70 to 49.70): VX0
Ion 51.00 (50.70 to 51.70): VX0
Ion 86.00 (85.70 to 86.70): VX0

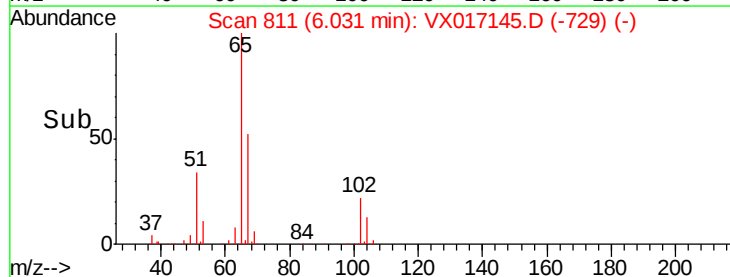
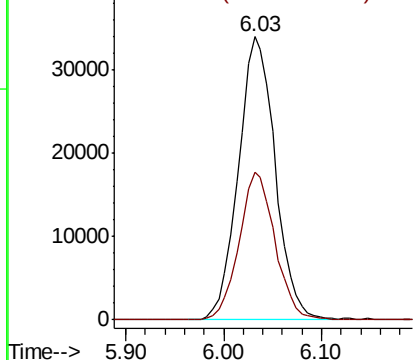


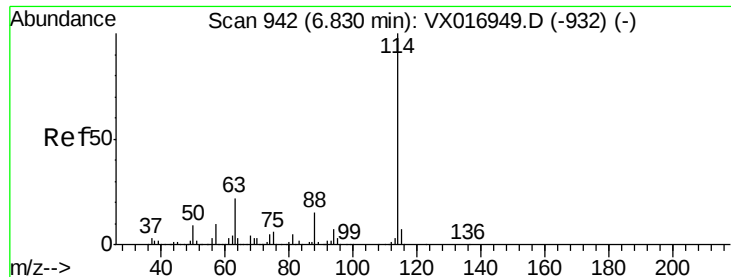
#27
1,2-Dichloroethane-d4
Concen: 28.091 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017145.D
Acq: 02 Jul 2020 14:01

Tgt Ion: 65 Resp: 88546
Ion Ratio Lower Upper
65 100
67 51.2 41.5 62.3



Abundance Ion 65.00 (64.70 to 65.70): VX0
Ion 67.00 (66.70 to 67.70): VX0

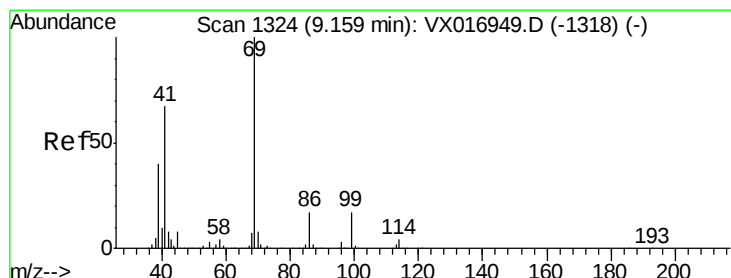
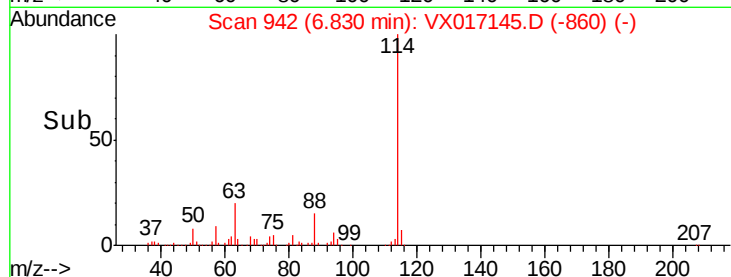
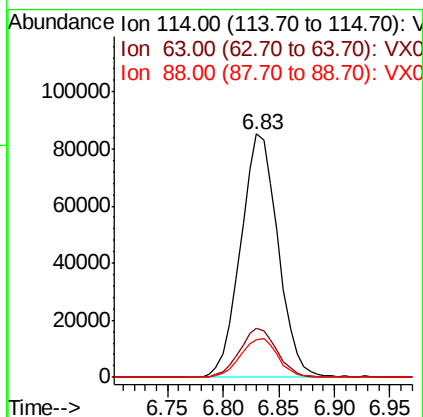
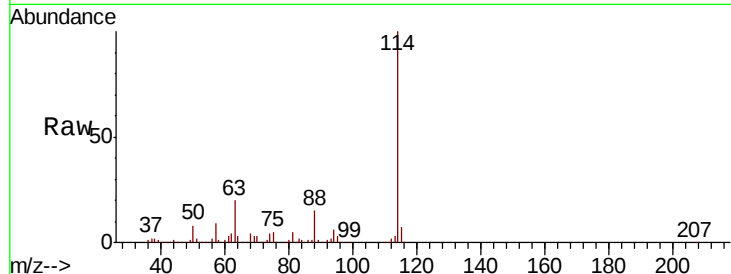




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017145.D
 Acq: 02 Jul 2020 14:01

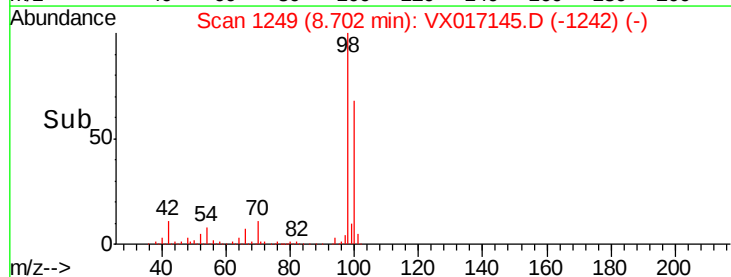
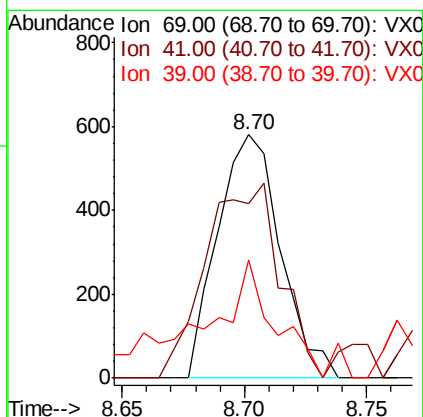
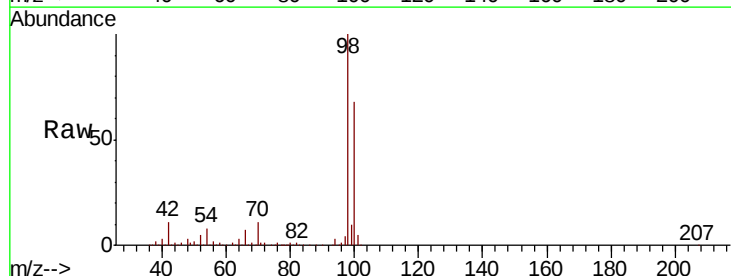
Instrument :
 MSVOA_X
 ClientSampled :

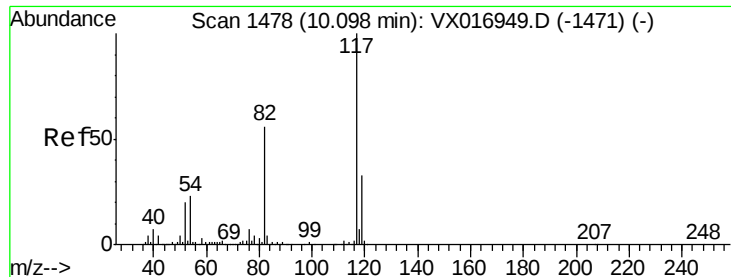
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.1	17.4	26.2
88	16.0	13.0	19.6



#51
 Ethyl methacrylate
 Concen: 0.287 ug/l
 RT: 8.70 min Scan# 1249
 Delta R.T. -0.46 min
 Lab File: VX017145.D
 Acq: 02 Jul 2020 14:01

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.3	33.7	101.1
39	33.7	19.9	59.7

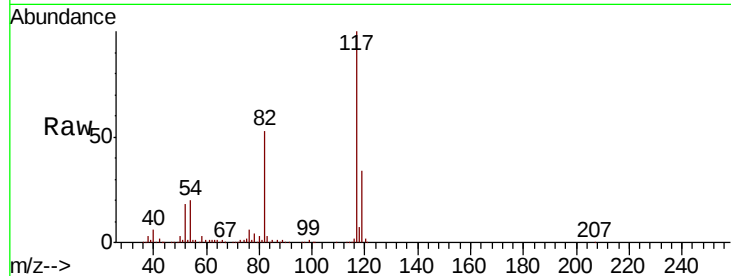




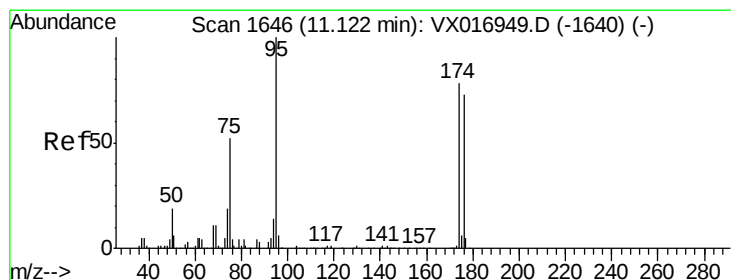
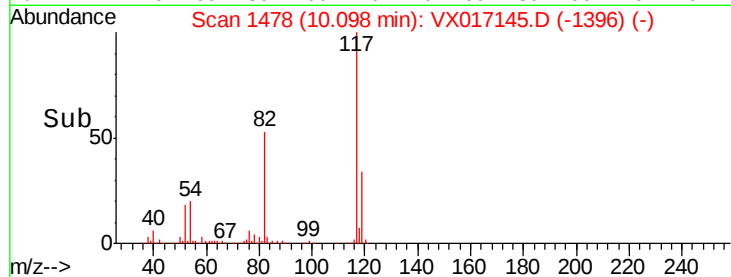
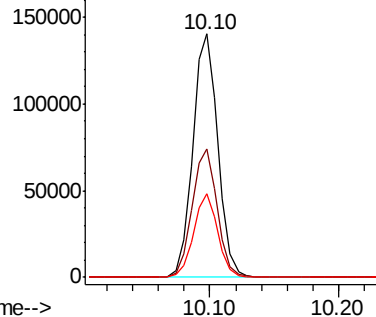
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017145.D
Acq: 02 Jul 2020 14:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	44.9	67.3
119	33.2	25.8	38.8

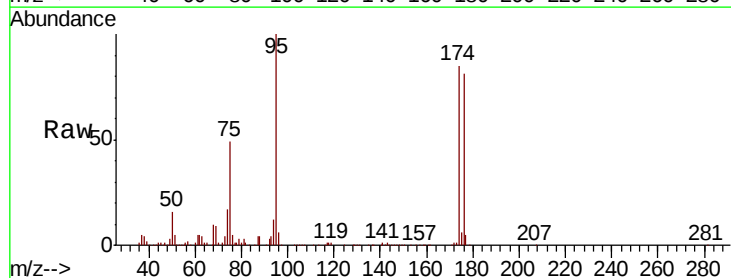


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 119.00 (118.70 to 119.70): V

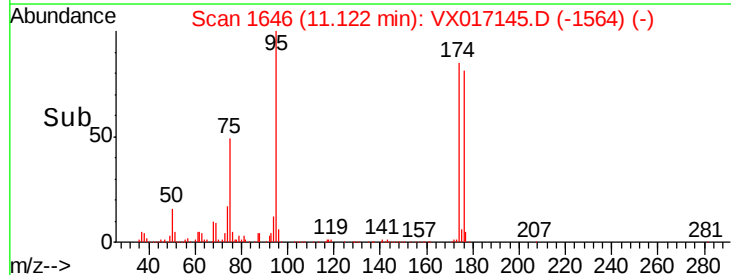
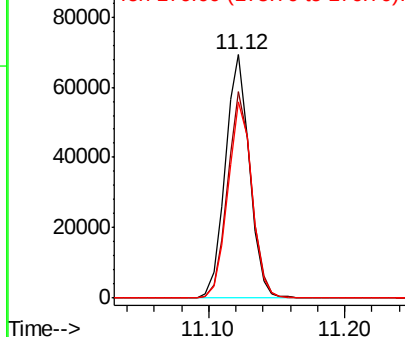


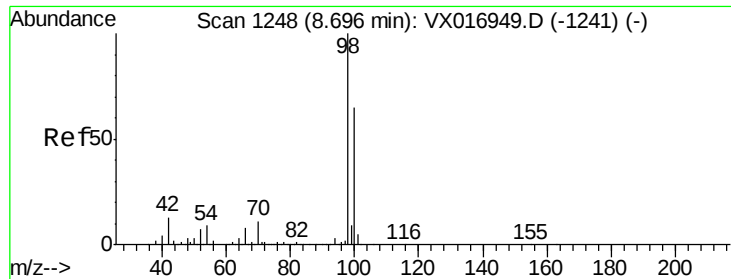
#60
4-Bromofluorobenzene
Concen: 26.604 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017145.D
Acq: 02 Jul 2020 14:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.4	62.2	93.4
176	80.5	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





#63

Toluene-d8

Concen: 28.084 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017145.D

Acq: 02 Jul 2020 14:01

Instrument :

MSVOA_X

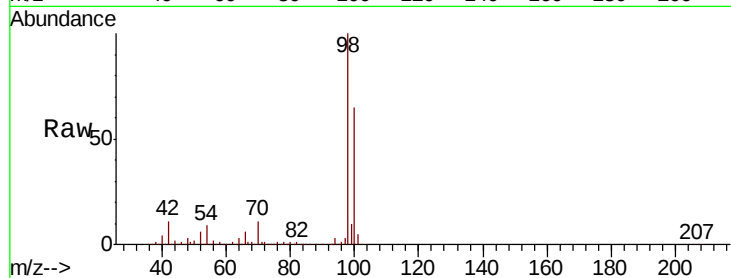
ClientSampleId :

Tot Ion: 98 Resp: 237158

Ion Ratio Lower Upper

98 100

100 66.7 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

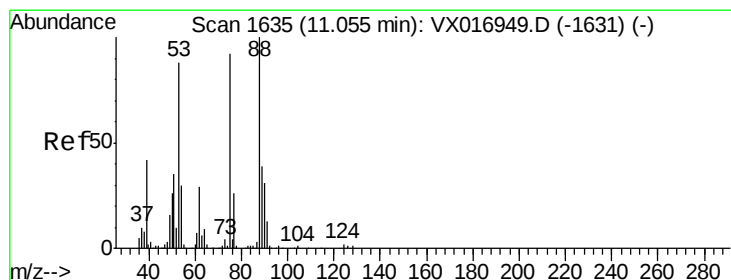
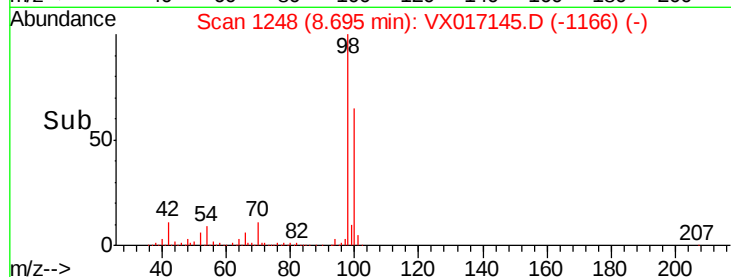
150000

100000

50000

0

Time--> 8.60 8.65 8.70 8.75 8.80



#77

t-1,4-Dichloro-2-butene

Concen: 30.767 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017145.D

Acq: 02 Jul 2020 14:01

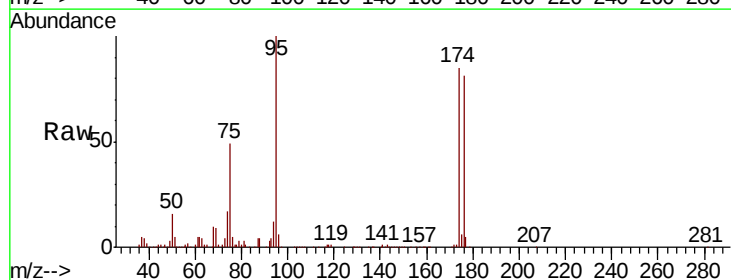
Tgt Ion: 75 Resp: 41997

Ion Ratio Lower Upper

75 100

53 0.4 47.6 142.9#

89 0.0 21.1 63.4#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

11.12

40000

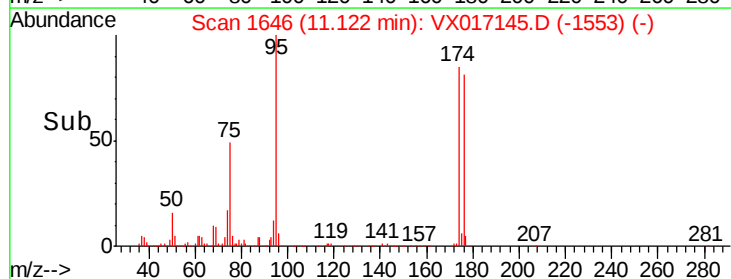
30000

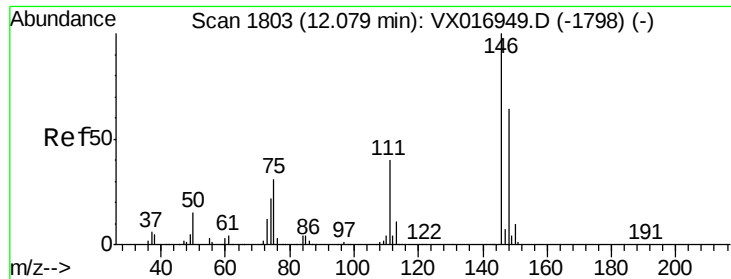
20000

10000

0

Time--> 11.10 11.15





#84

1,4-Dichlorobenzene

Concen: 0.227 ug/l

RT: 12.08 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VX017145.D

Acq: 02 Jul 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

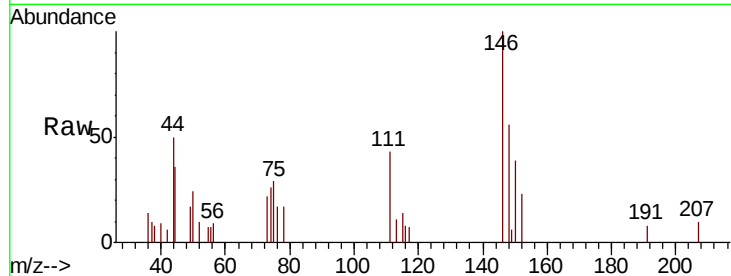
Tot Ion:146 Resp: 1177

Ion Ratio Lower Upper

146 100

111 35.8 19.4 58.2

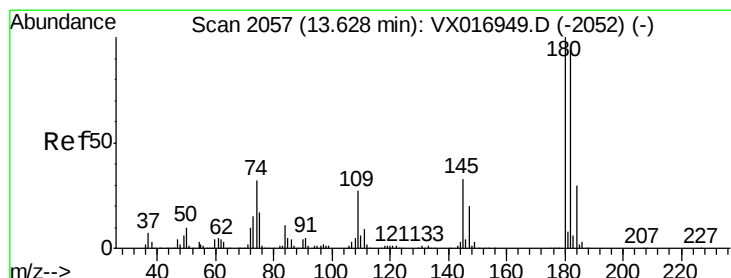
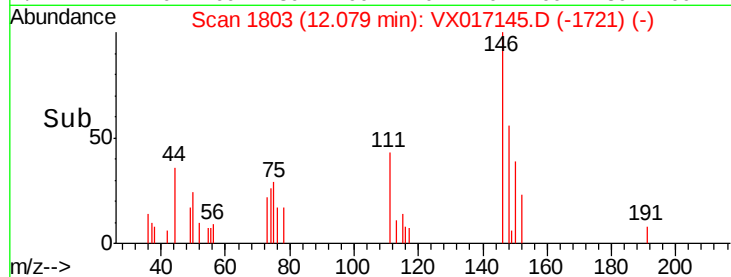
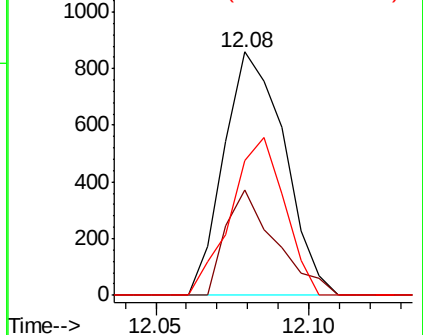
148 57.4 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#89

1,2,4-Trichlorobenzene

Concen: 0.355 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX017145.D

Acq: 02 Jul 2020 14:01

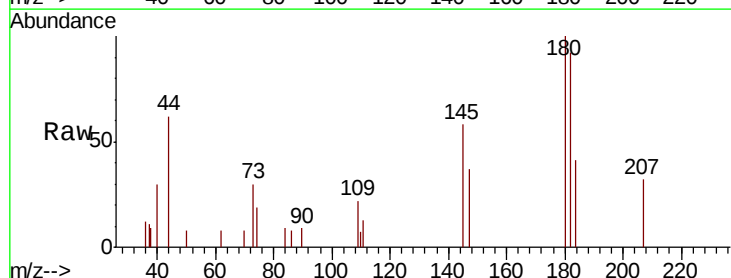
Tgt Ion:180 Resp: 1159

Ion Ratio Lower Upper

180 100

182 100.3 77.7 116.5

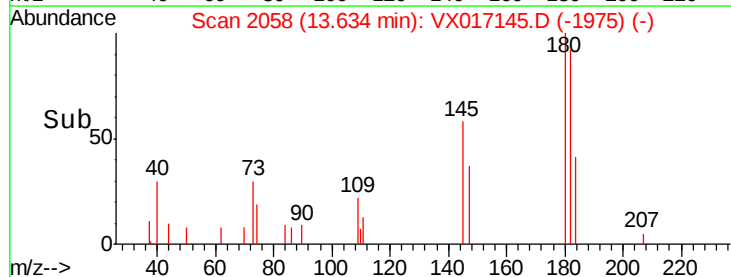
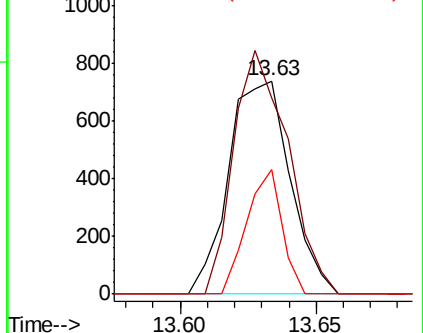
145 33.2 26.2 39.2

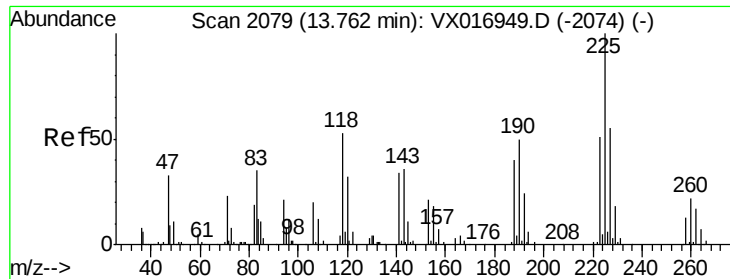


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

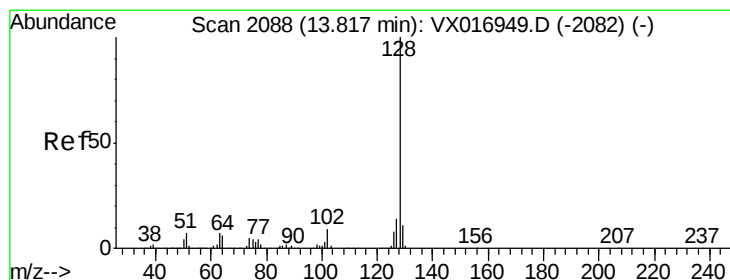
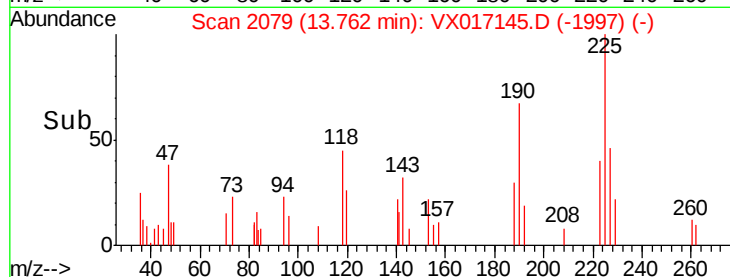
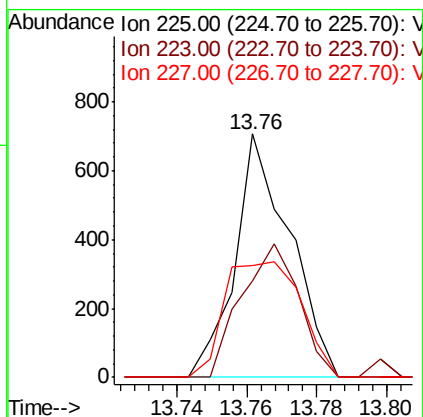
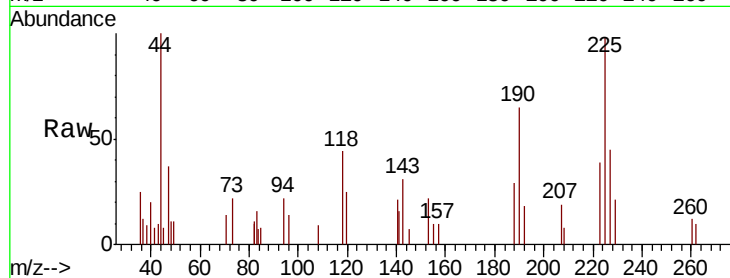




#90
Hexachlorobutadiene
Concen: 0.618 ug/l
RT: 13.76 min Scan# 2079
Delta R.T. -0.00 min
Lab File: VX017145.D
Acq: 02 Jul 2020 14:01

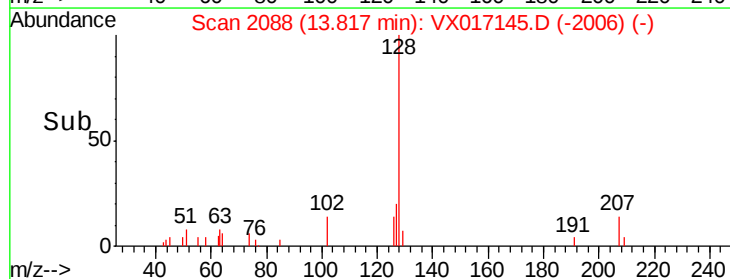
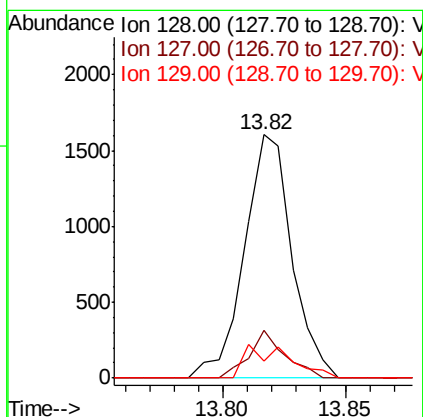
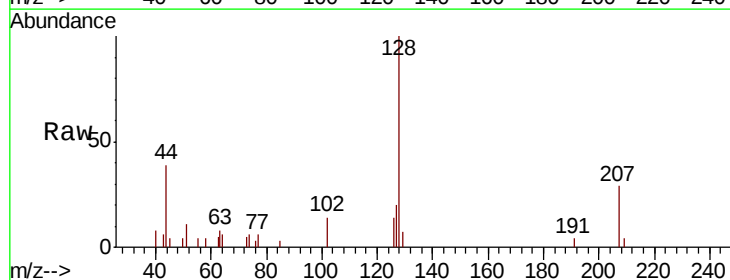
Instrument :
MSVOA_X
ClientSampleId :

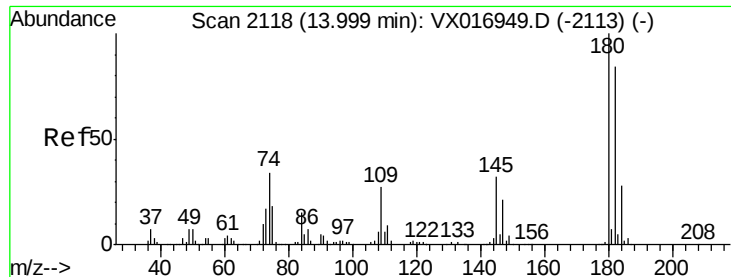
Tot Ion:225 Resp: 767
Ion Ratio Lower Upper
225 100
223 57.8 0.0 125.0
227 66.5 0.0 124.0



#91
Naphthalene
Concen: 0.204 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX017145.D
Acq: 02 Jul 2020 14:01

Tgt Ion:128 Resp: 2177
Ion Ratio Lower Upper
128 100
127 14.7 10.5 15.7
129 5.6 9.0 13.4#

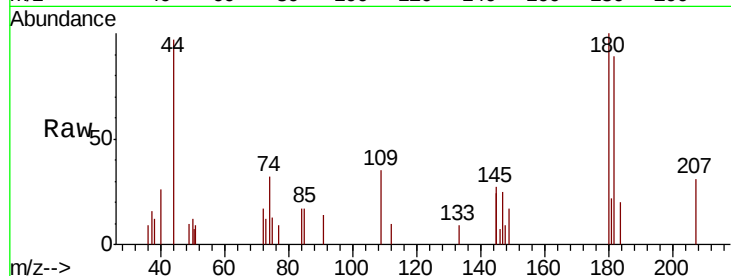




#92
 1,2,3-Trichlorobenzene
 Concen: 0.325 ug/l
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.01 min
 Lab File: VX017145.D
 Acq: 02 Jul 2020 14:01

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.7	0.0	184.8
145	39.0	0.0	68.0



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

