

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121420\
 Data File : VX019998.D
 Acq On : 14 Dec 2020 19:45
 Operator : JC/MD
 Sample : L5052-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-4254-121020

Quant Time: Dec 15 00:26:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	318545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	530312	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	493037	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	214447	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	203492	48.61	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.22%	
35) Dibromofluoromethane		5.46	113	164433	47.98	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.96%	
50) Toluene-d8		8.70	98	643423	49.17	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.34%	
62) 4-Bromofluorobenzene		11.12	95	231268	46.44	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.88%	

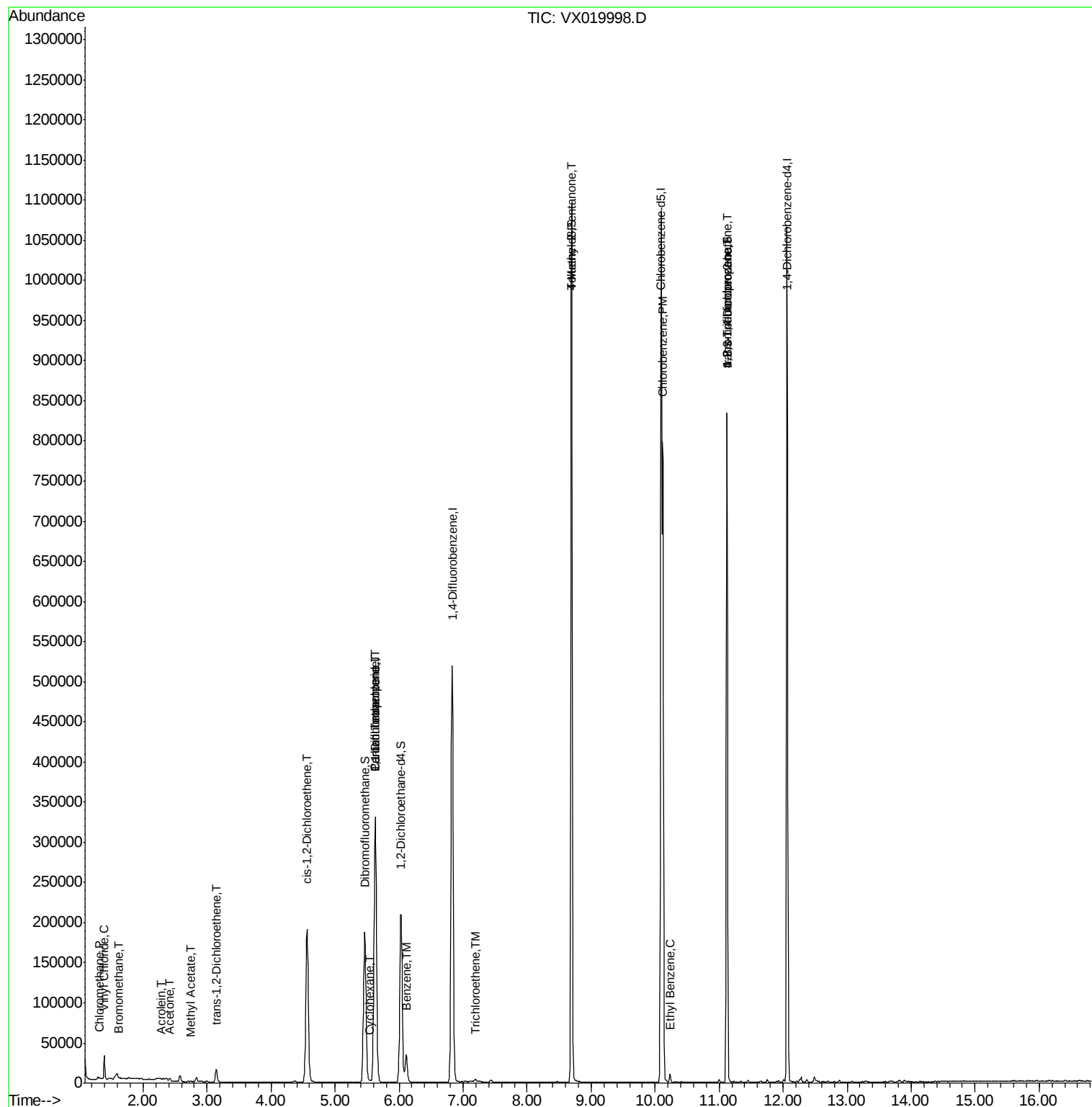
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1080	0.315	ug/l	94
4) Vinyl Chloride	1.39	62	16116	4.456	ug/l	95
5) Bromomethane	1.63	94	293	0.244	ug/l #	60
11) Tert butyl alcohol	3.01	59	1289	Below Cal	#	73
13) Acrolein	2.28	56	104	0.225	ug/l #	14
16) Acetone	2.42	43	3770	2.396	ug/l	99
18) Methyl Acetate	2.75	43	1472	0.382	ug/l	91
20) Methylene Chloride	2.83	84	2466	Below Cal		96
21) trans-1,2-Dichloroethene	3.14	96	6129	1.801	ug/l	99
27) cis-1,2-Dichloroethene	4.56	96	123005	30.891	ug/l	91
31) Cyclohexane	5.54	56	1564	0.300	ug/l #	76
36) 1,1-Dichloropropene	5.62	75	24681	5.150	ug/l #	49
38) Carbon Tetrachloride	5.63	117	31043	6.615	ug/l #	17
40) Benzene	6.11	78	40515	2.768	ug/l	99
44) Trichloroethene	7.19	130	840	0.219	ug/l	89
51) 4-Methyl-2-Pentanone	8.70	43	2507	0.522	ug/l #	1
65) Chlorobenzene	10.12	112	352414	35.878	ug/l	99
67) Ethyl Benzene	10.23	91	5477	0.314	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	111658	23.215	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	111658	67.111	ug/l #	12

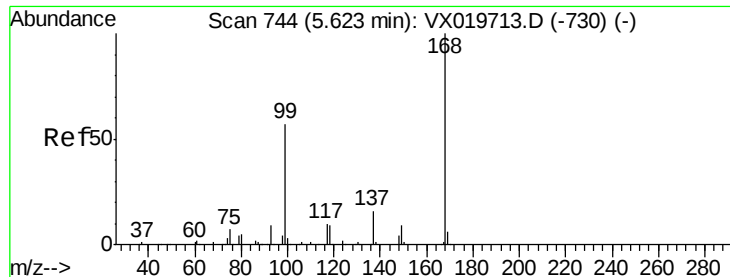
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

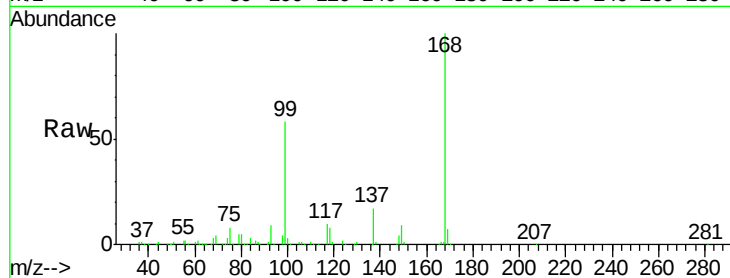
TU032-32-4254-121020

Tgt Ion:168 Resp: 318545

Ion Ratio Lower Upper

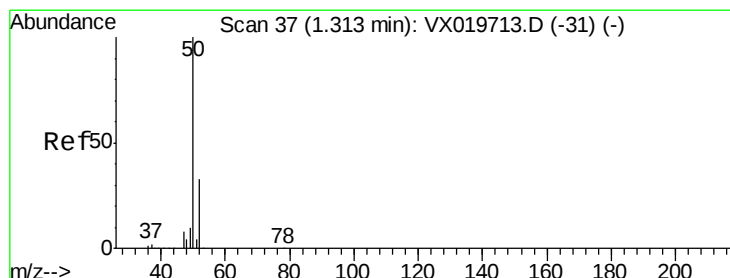
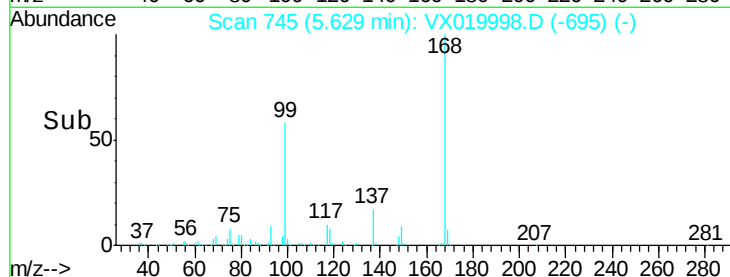
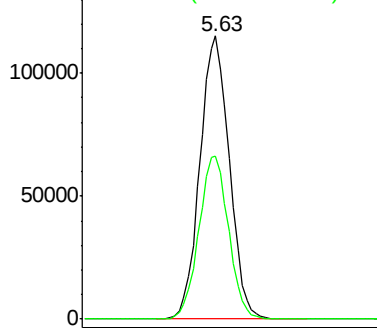
168 100

99 57.6 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.315 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019998.D

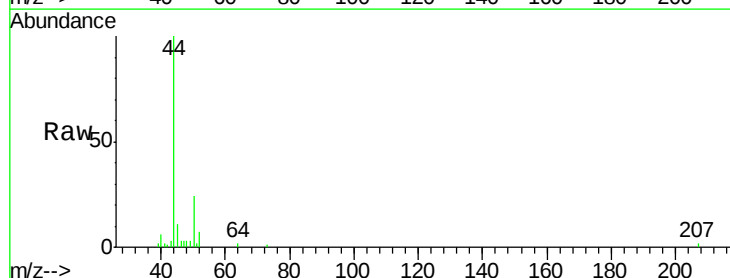
Acq: 14 Dec 2020 19:45

Tgt Ion: 50 Resp: 1080

Ion Ratio Lower Upper

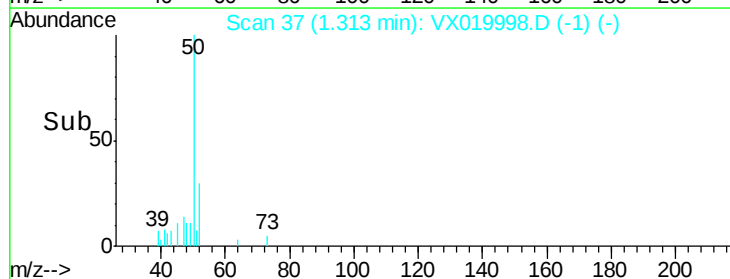
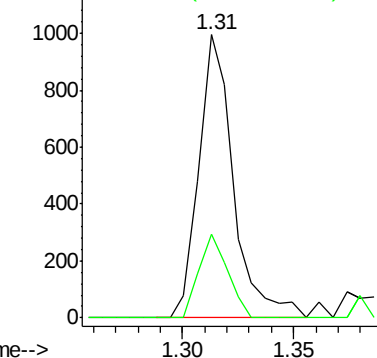
50 100

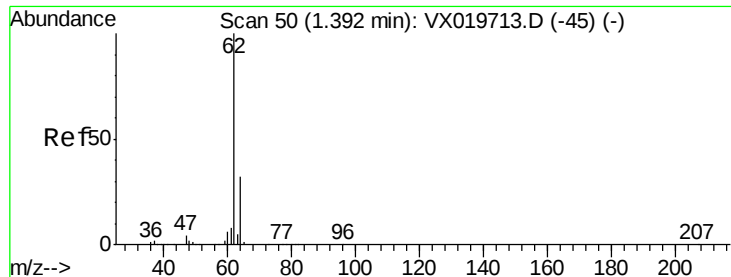
52 29.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 4.456 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

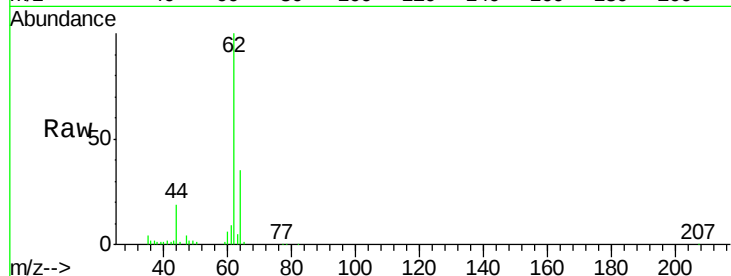
TU032-32-4254-121020

Tgt Ion: 62 Resp: 16116

Ion Ratio Lower Upper

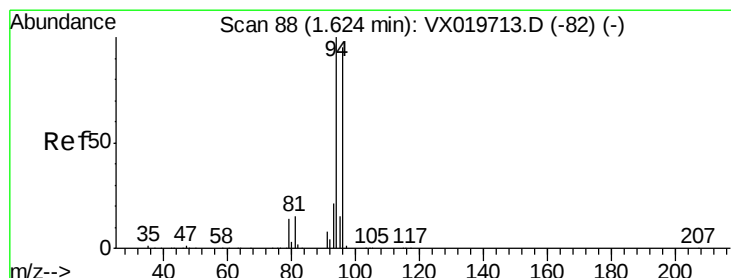
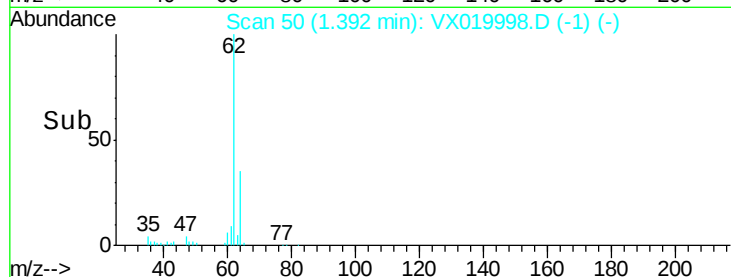
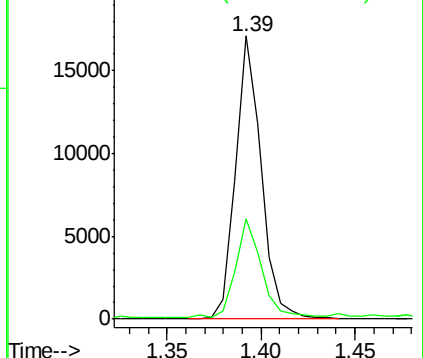
62 100

64 34.7 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.244 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019998.D

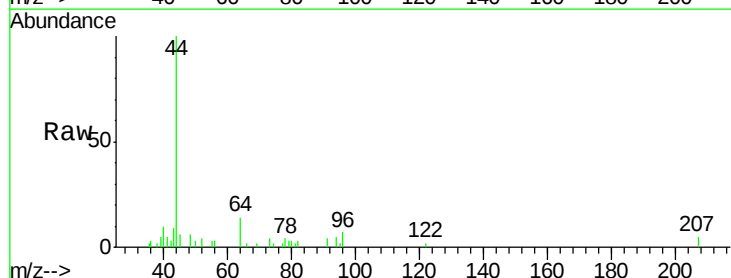
Acq: 14 Dec 2020 19:45

Tgt Ion: 94 Resp: 293

Ion Ratio Lower Upper

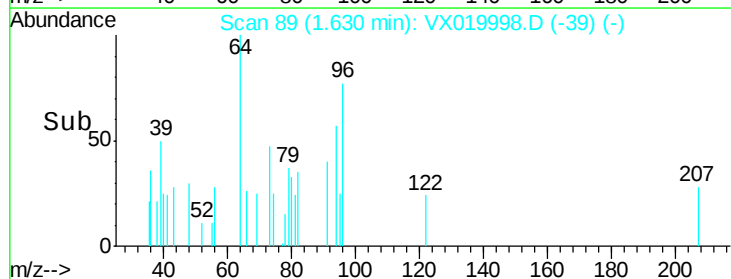
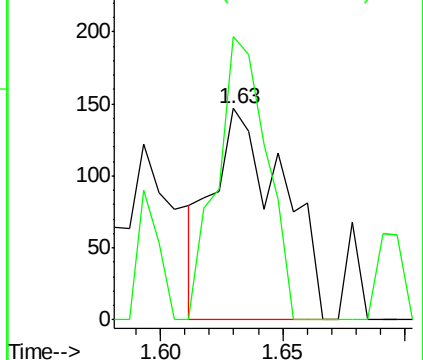
94 100

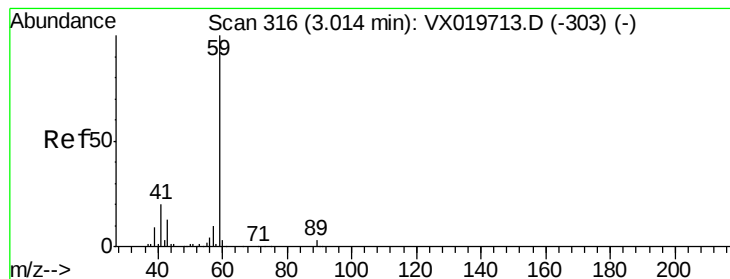
96 134.0 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



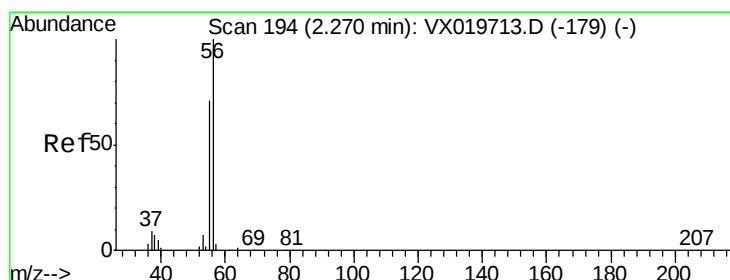
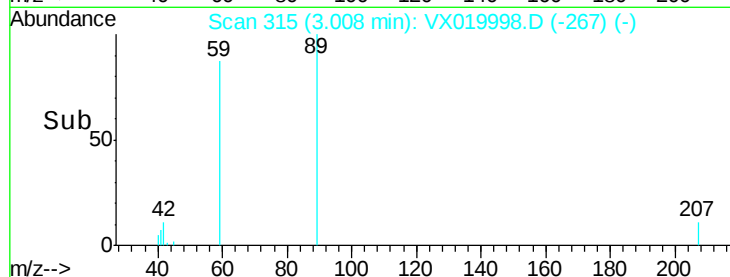
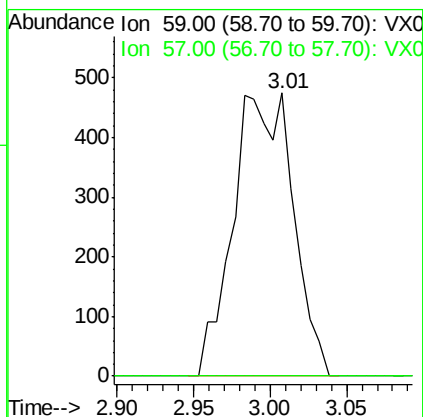
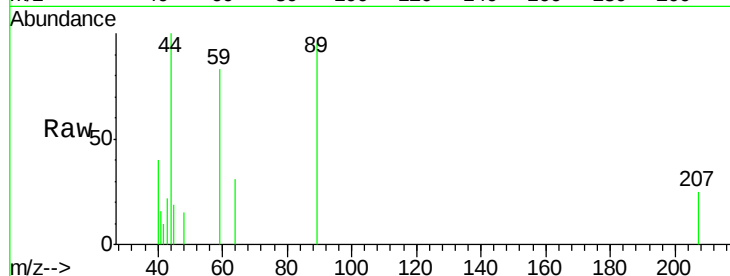


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX019998.D
 Acq: 14 Dec 2020 19:45

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-4254-121020

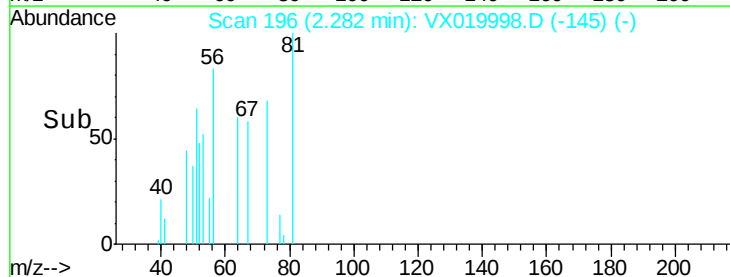
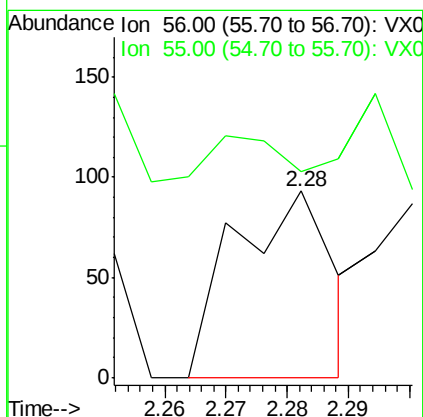
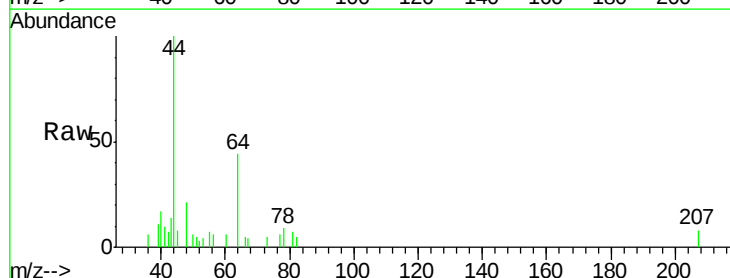
Tgt Ion: 59 Resp: 1289
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

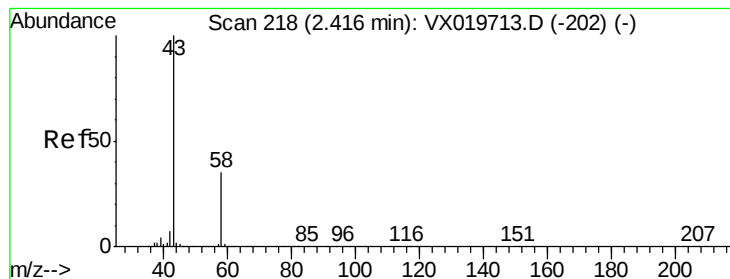


#13

Acrolein
 Concen: 0.225 ug/l
 RT: 2.28 min Scan# 196
 Delta R.T. 0.01 min
 Lab File: VX019998.D
 Acq: 14 Dec 2020 19:45

Tgt Ion: 56 Resp: 104
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.4 84.6#





#16

Acetone

Concen: 2.396 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

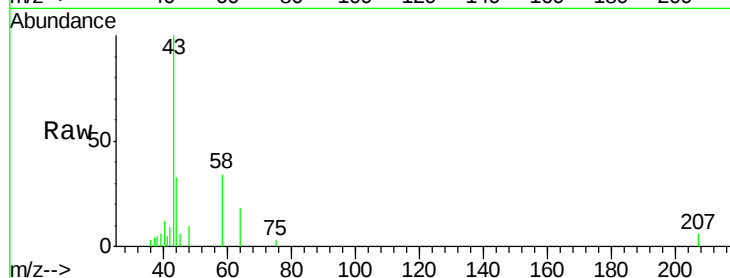
TU032-32-4254-121020

Tgt Ion: 43 Resp: 3770

Ion Ratio Lower Upper

43 100

58 35.4 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

2500

2000

1500

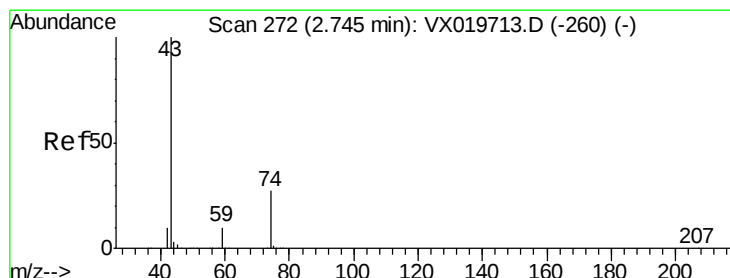
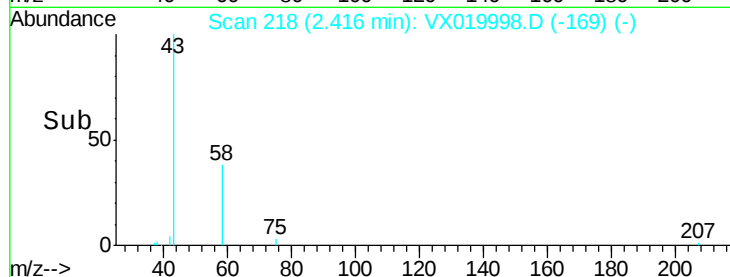
1000

500

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.382 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019998.D

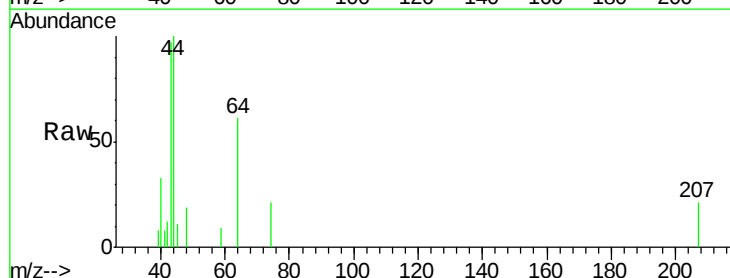
Acq: 14 Dec 2020 19:45

Tgt Ion: 43 Resp: 1472

Ion Ratio Lower Upper

43 100

74 22.6 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

600

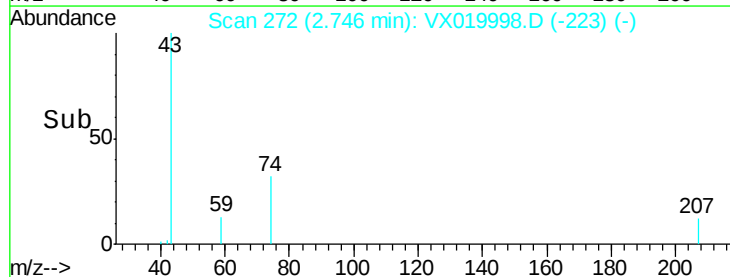
400

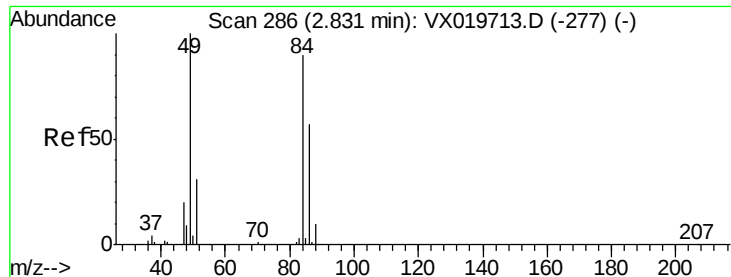
200

0

Time-->

2.70 2.75 2.80

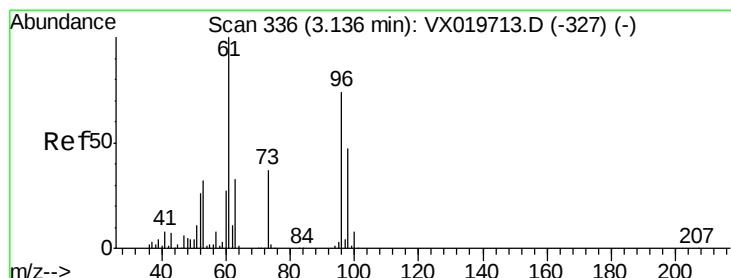
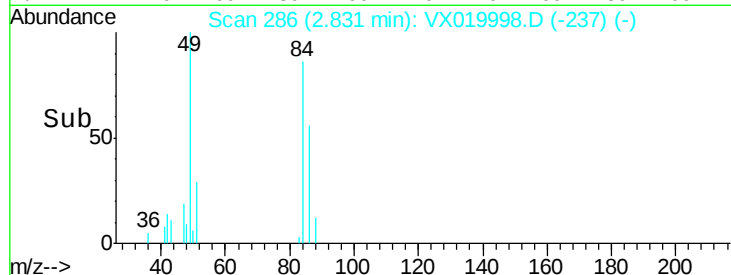
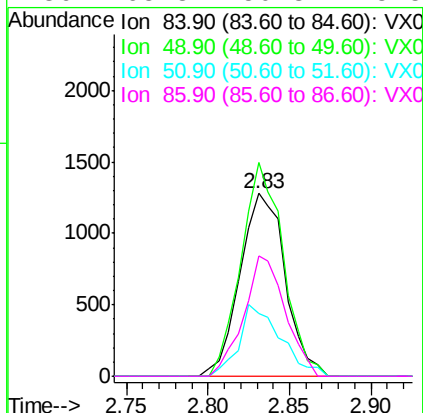
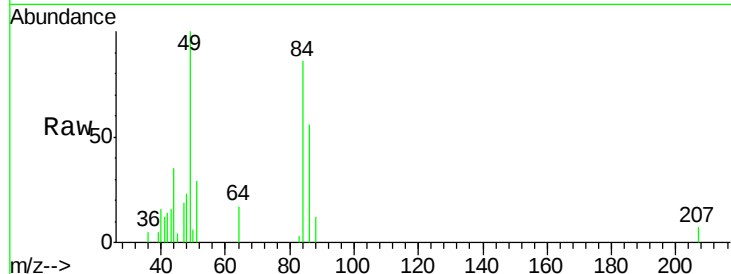




#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019998.D
Acq: 14 Dec 2020 19:45

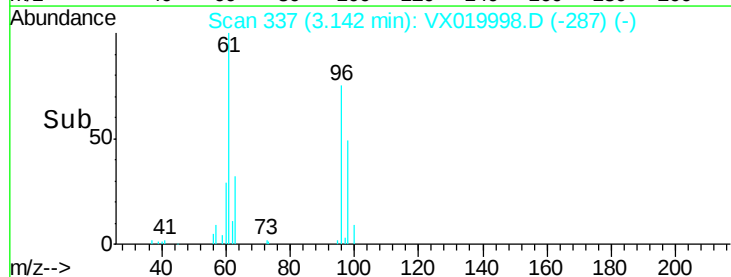
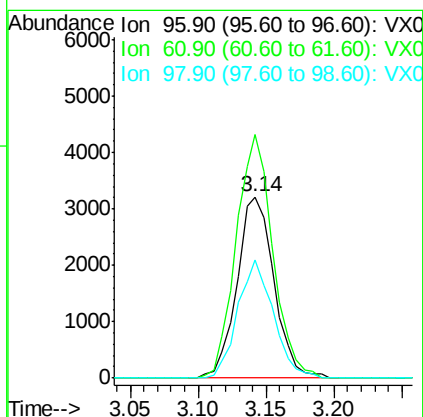
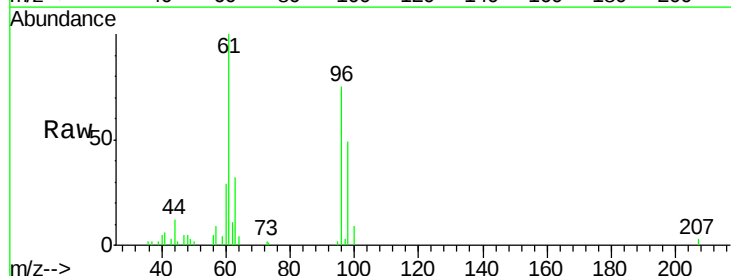
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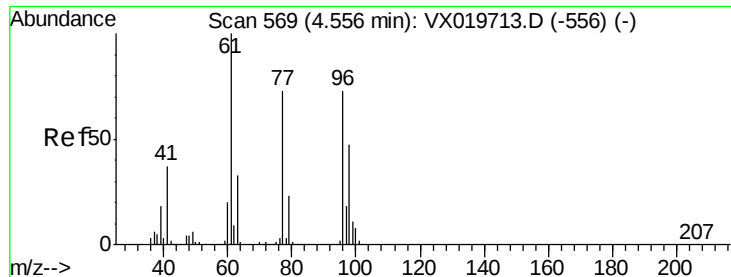
Tgt Ion:	84	Resp:	2466
Ion	Ratio	Lower	Upper
84	100		
49	116.9	88.6	132.8
51	34.3	27.0	40.6
86	65.8	50.3	75.5



#21
trans-1,2-Dichloroethene
Concen: 1.801 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX019998.D
Acq: 14 Dec 2020 19:45

Tgt Ion:	96	Resp:	6129
Ion	Ratio	Lower	Upper
96	100		
61	134.2	107.7	161.5
98	65.2	50.4	75.6



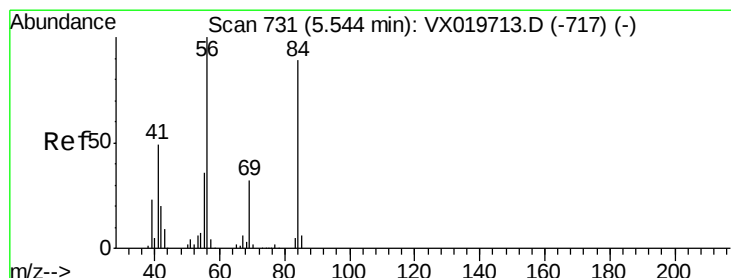
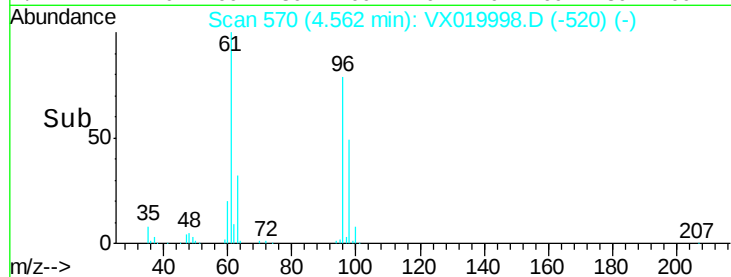
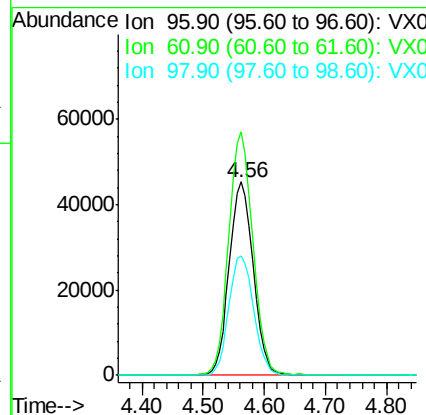
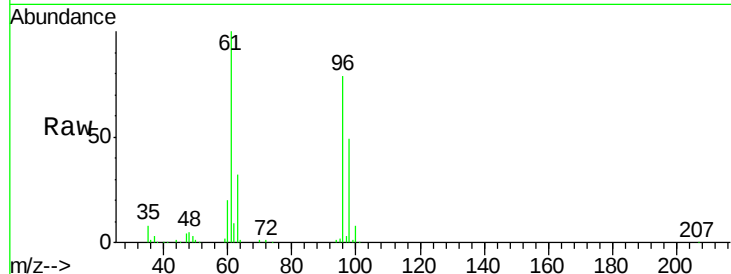


#27

cis-1,2-Dichloroethene
Concen: 30.891 ug/l
RT: 4.56 min Scan# 570
Delta R.T. 0.01 min
Lab File: VX019998.D
Acq: 14 Dec 2020 19:45

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-4254-121020

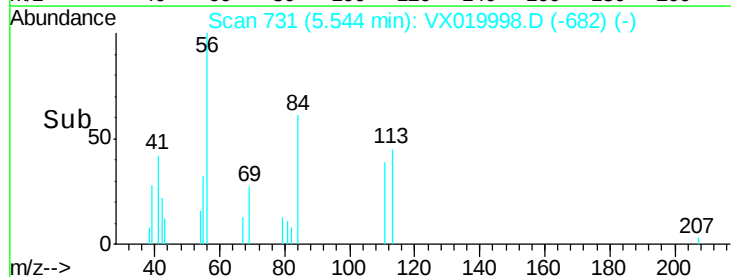
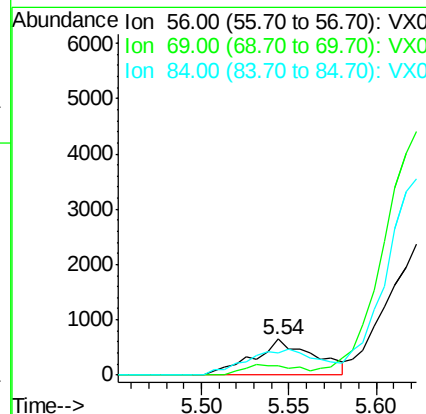
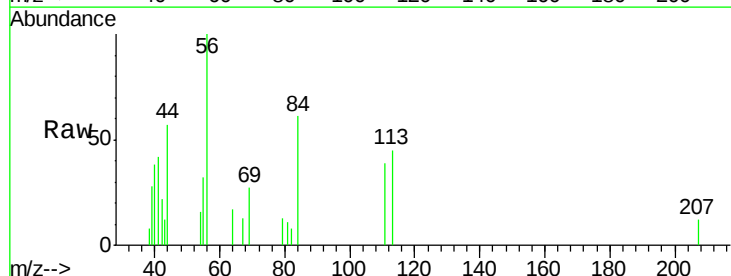
Tgt Ion	Ratio	Lower	Upper
96	100		
61	126.6	0.0	285.6
98	63.7	0.0	129.6

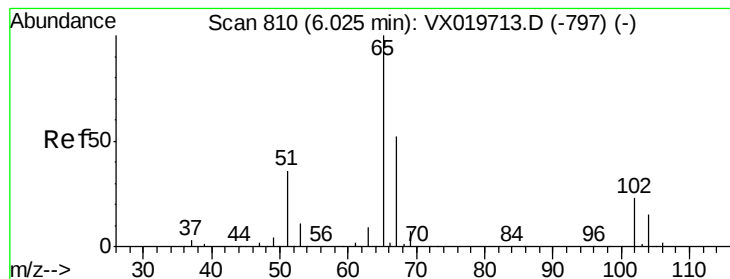


#31

Cyclohexane
Concen: 0.300 ug/l
RT: 5.54 min Scan# 731
Delta R.T. 0.00 min
Lab File: VX019998.D
Acq: 14 Dec 2020 19:45

Tgt Ion	Ratio	Lower	Upper
56	100		
69	26.8	25.3	37.9
84	61.0	71.4	107.0#





#33

1,2-Dichloroethane-d4

Concen: 48.605 ug/l

RT: 6.03 min Scan# 810

Delta R.T. 0.00 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

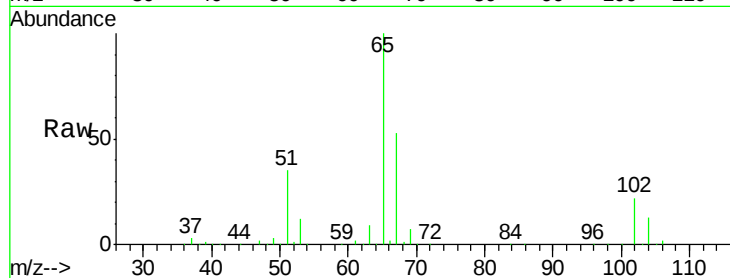
TU032-32-4254-121020

Tgt Ion: 65 Resp: 203492

Ion Ratio Lower Upper

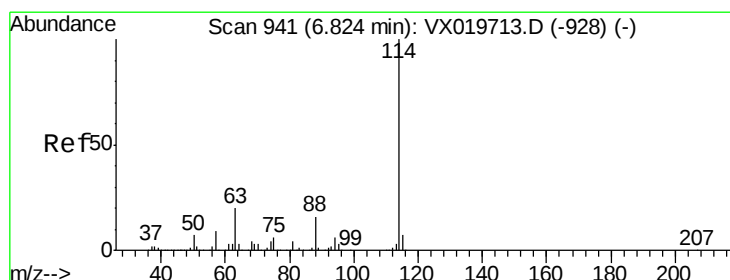
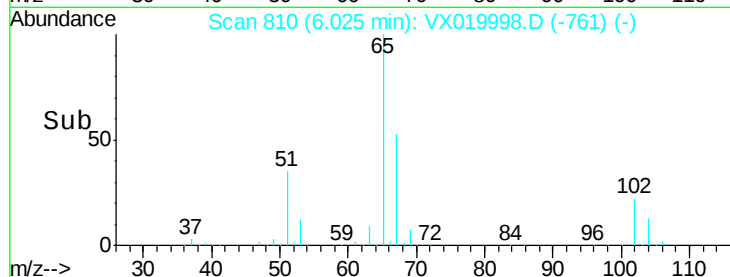
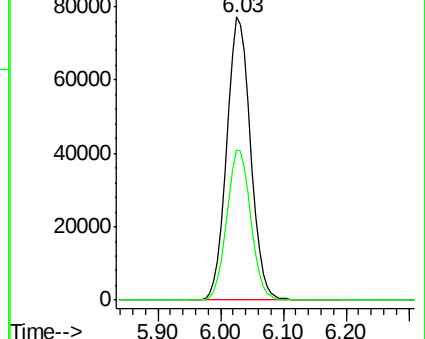
65 100

67 53.4 0.0 105.4



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: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

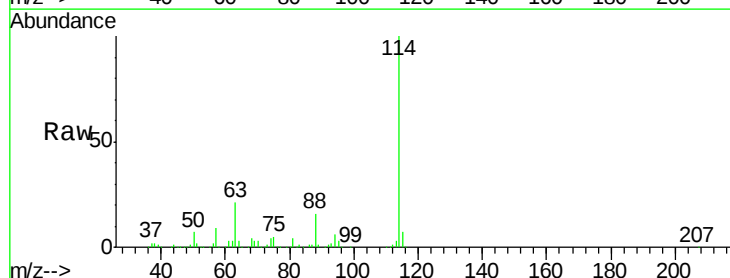
Tgt Ion: 114 Resp: 530312

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

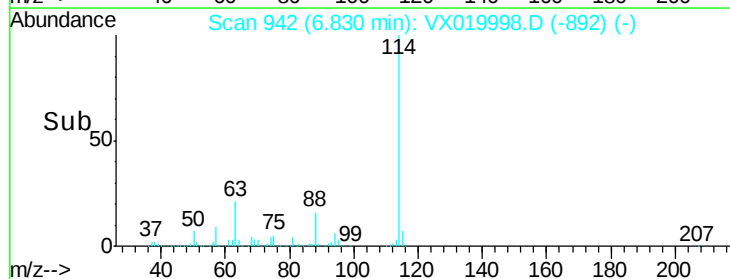
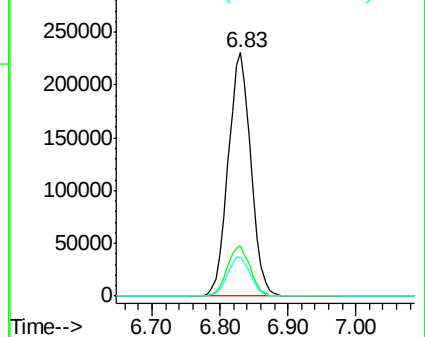
88 16.0 0.0 32.8

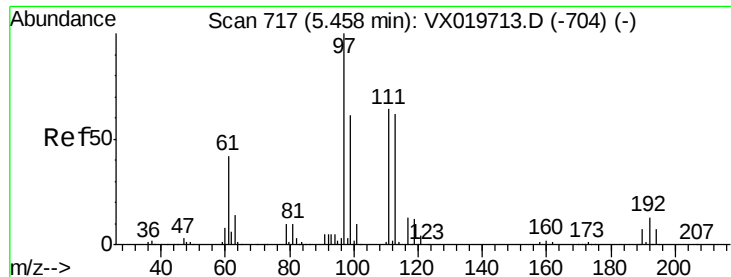


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.977 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-4254-121020

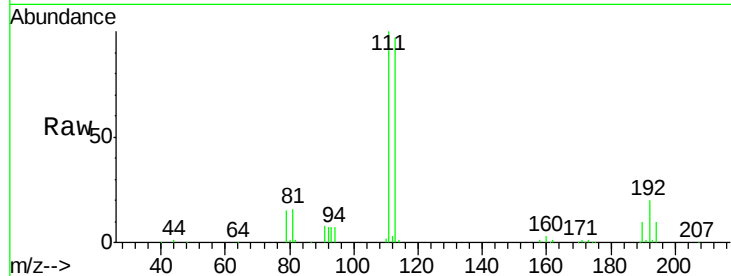
Tgt Ion:113 Resp: 164433

Ion Ratio Lower Upper

113 100

111 103.3 81.9 122.9

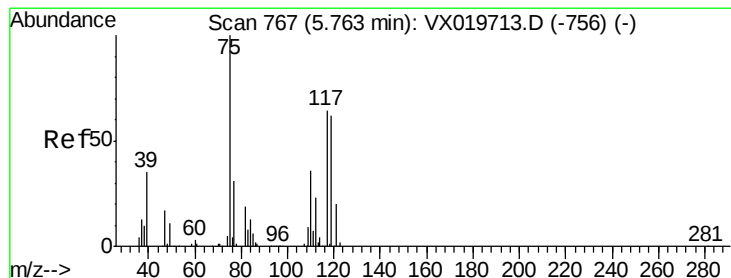
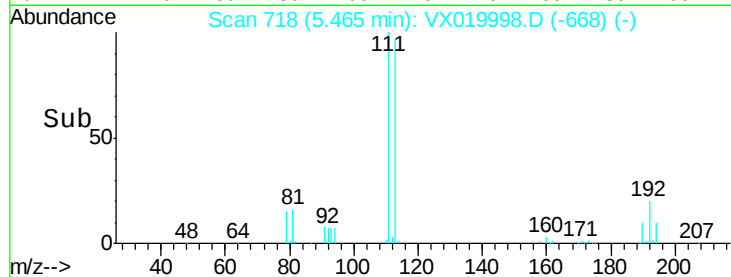
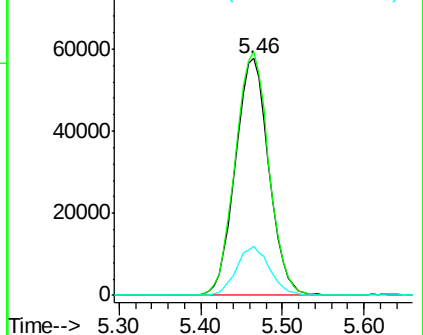
192 20.4 16.7 25.1



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: 5.150 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

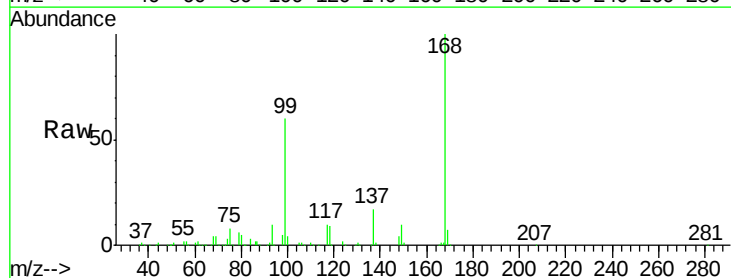
Tgt Ion: 75 Resp: 24681

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.4#

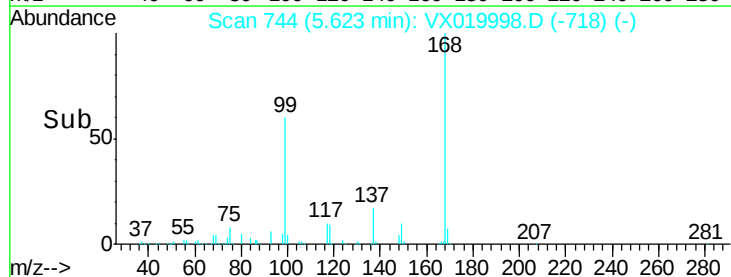
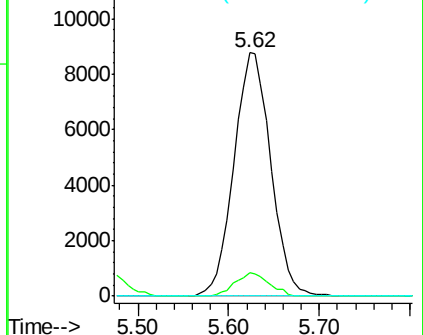
77 0.0 25.3 37.9#

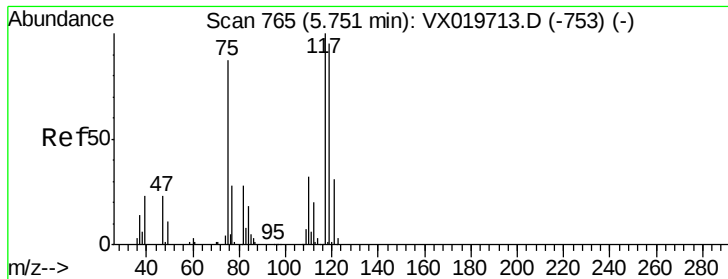


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.615 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-4254-121020

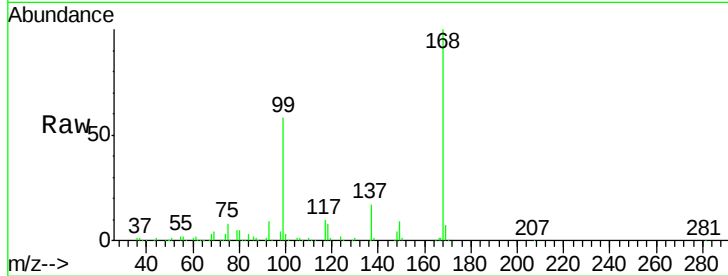
Tgt Ion:117 Resp: 31043

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

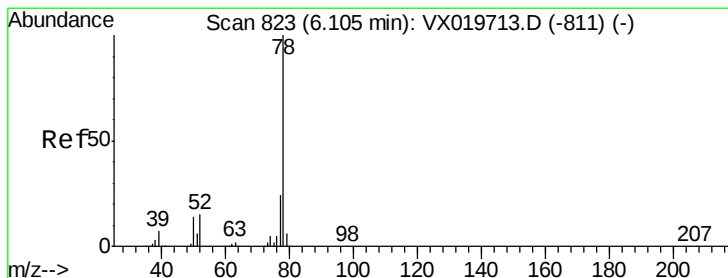
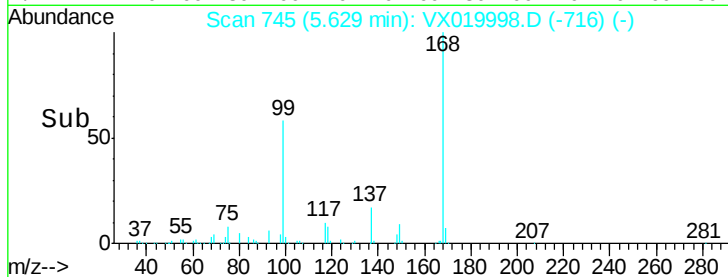
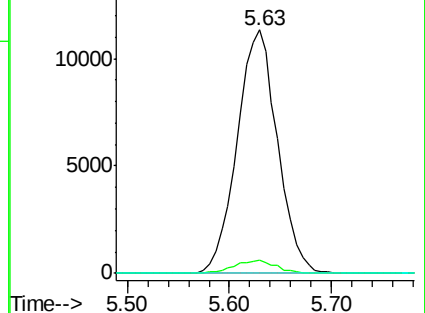
121 0.0 24.8 37.2#



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



#40

Benzene

Concen: 2.768 ug/l

RT: 6.11 min Scan# 824

Delta R.T. 0.01 min

Lab File: VX019998.D

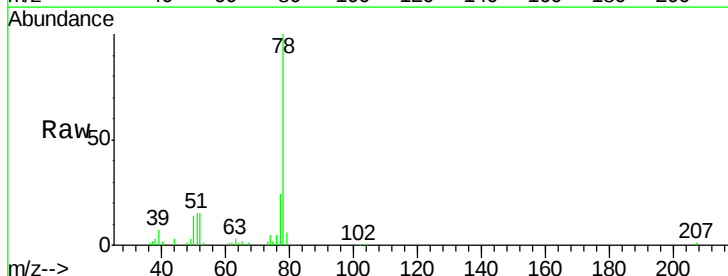
Acq: 14 Dec 2020 19:45

Tgt Ion: 78 Resp: 40515

Ion Ratio Lower Upper

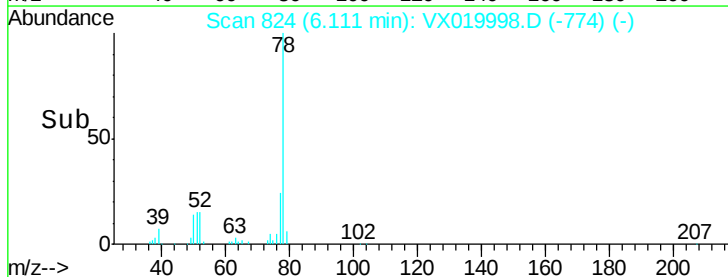
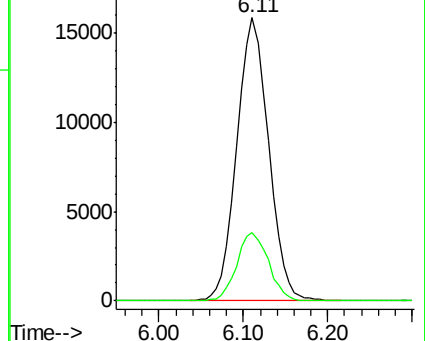
78 100

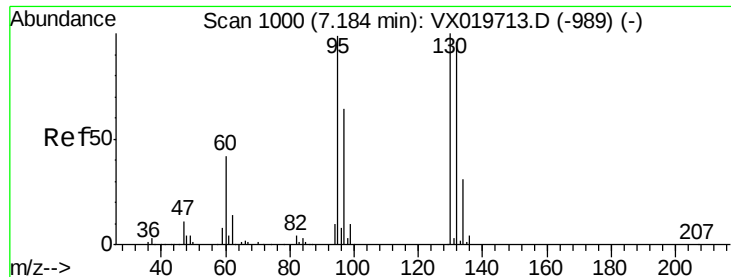
77 24.1 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.219 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

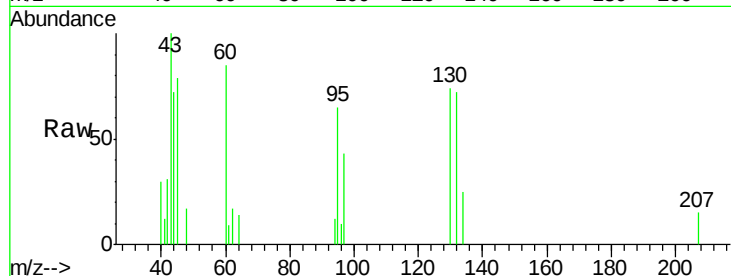
TU032-32-4254-121020

Tgt Ion:130 Resp: 840

Ion Ratio Lower Upper

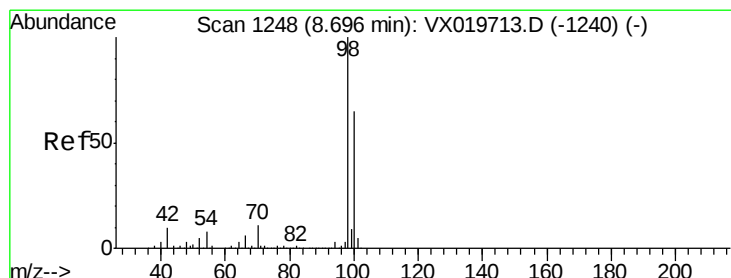
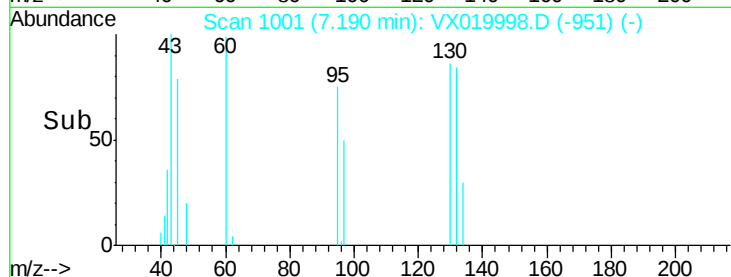
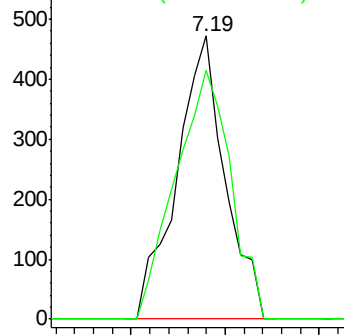
130 100

95 87.9 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.174 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019998.D

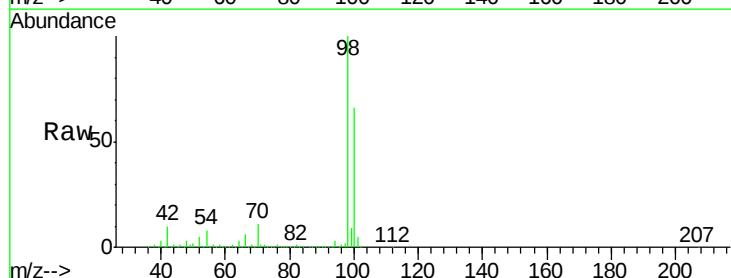
Acq: 14 Dec 2020 19:45

Tgt Ion: 98 Resp: 643423

Ion Ratio Lower Upper

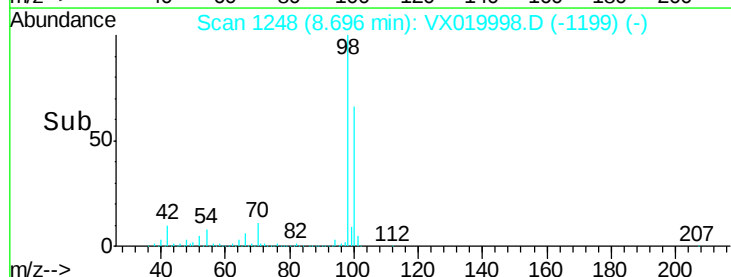
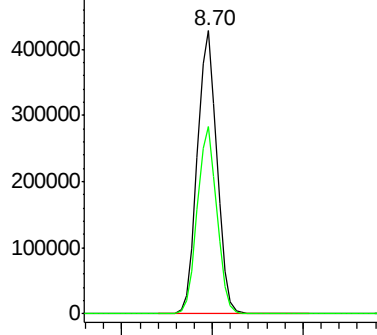
98 100

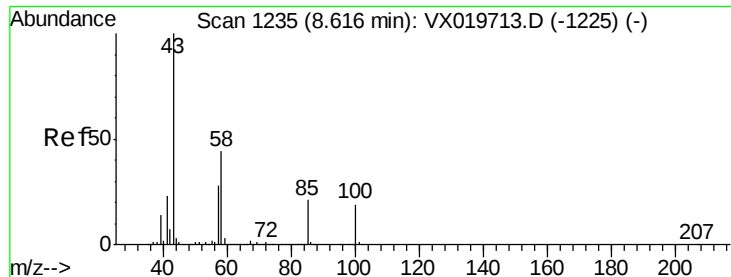
100 65.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

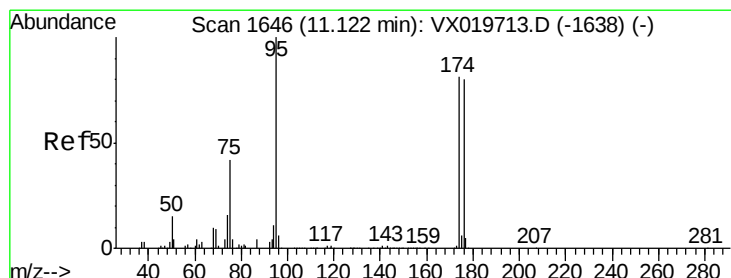
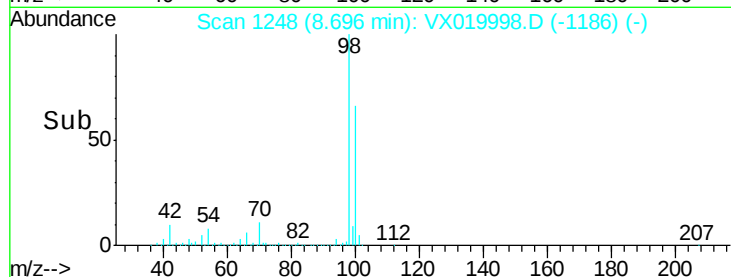
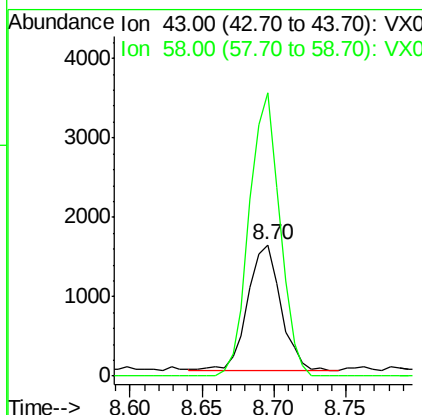
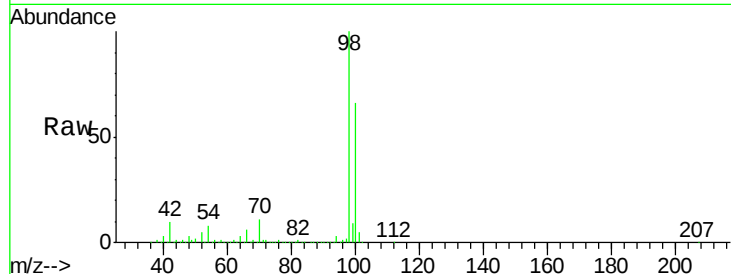




#51
 4-Methyl-2-Pentanone
 Concen: 0.522 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. 0.08 min
 Lab File: VX019998.D
 Acq: 14 Dec 2020 19:45

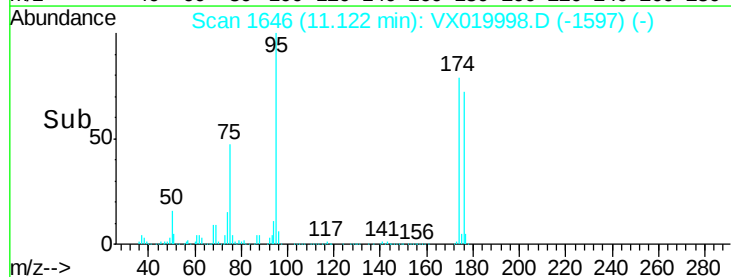
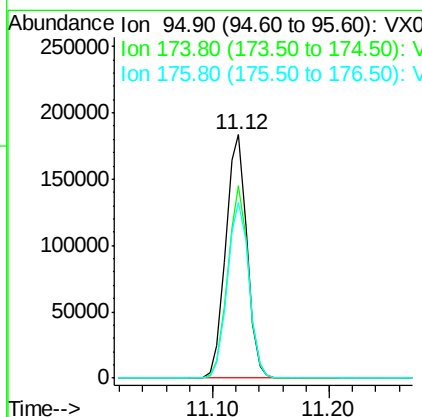
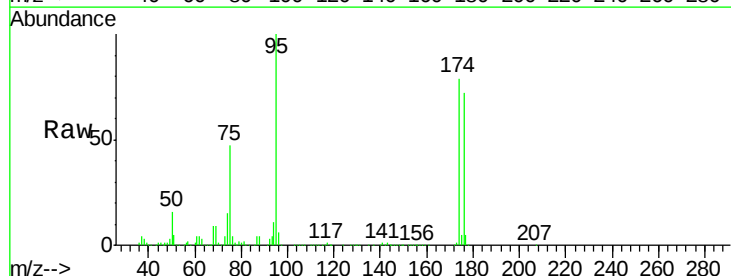
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-4254-121020

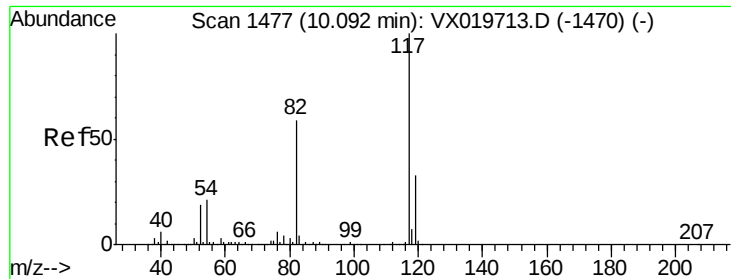
Tgt Ion: 43 Resp: 2507
 Ion Ratio Lower Upper
 43 100
 58 208.1 35.4 53.0#



#62
 4-Bromofluorobenzene
 Concen: 46.438 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.00 min
 Lab File: VX019998.D
 Acq: 14 Dec 2020 19:45

Tgt Ion: 95 Resp: 231268
 Ion Ratio Lower Upper
 95 100
 174 77.6 0.0 154.6
 176 74.0 0.0 155.8

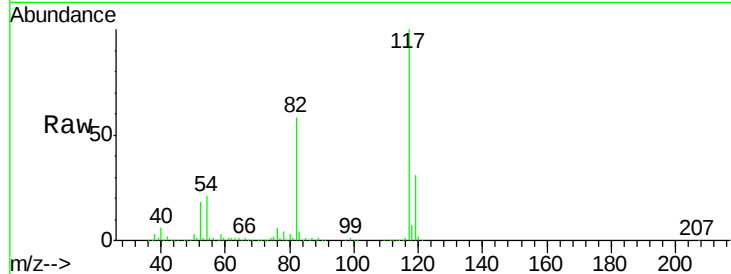




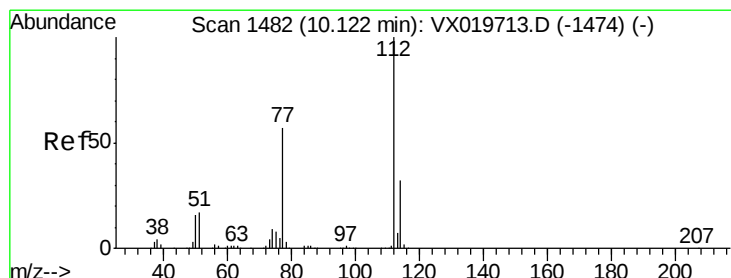
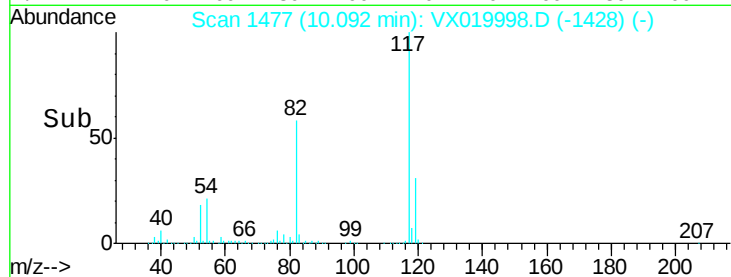
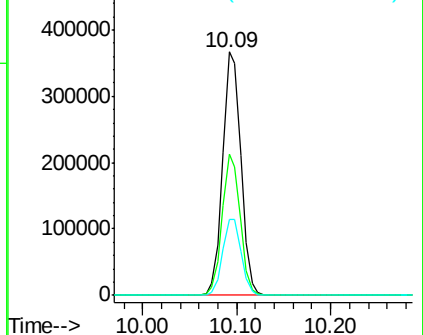
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VX019998.D
Acq: 14 Dec 2020 19:45

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-4254-121020

Tgt Ion:117 Resp: 493037
Ion Ratio Lower Upper
117 100
82 58.2 47.4 71.2
119 31.2 26.6 39.8

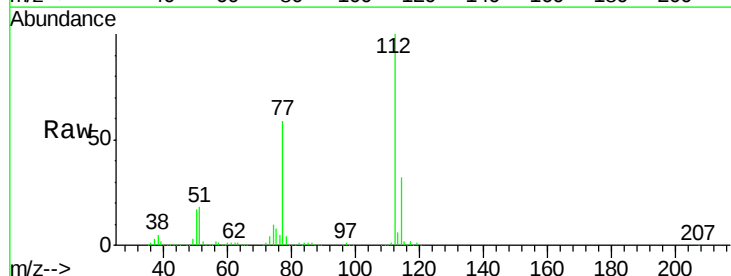


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

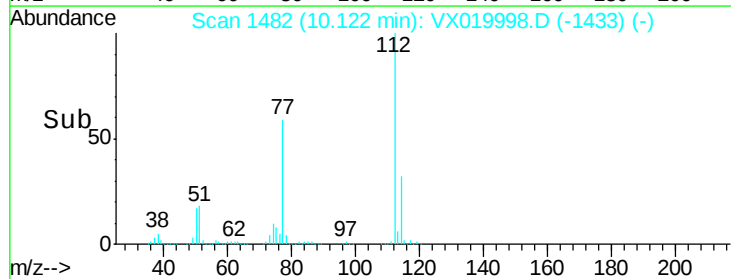
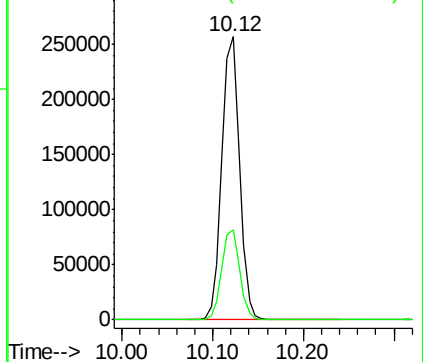


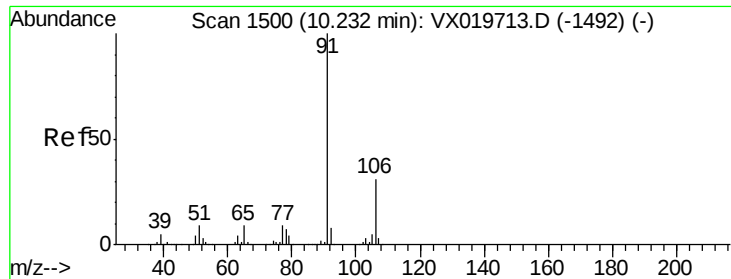
#65
Chlorobenzene
Concen: 35.878 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX019998.D
Acq: 14 Dec 2020 19:45

Tgt Ion:112 Resp: 352414
Ion Ratio Lower Upper
112 100
114 31.7 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#67

Ethyl Benzene

Concen: 0.314 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

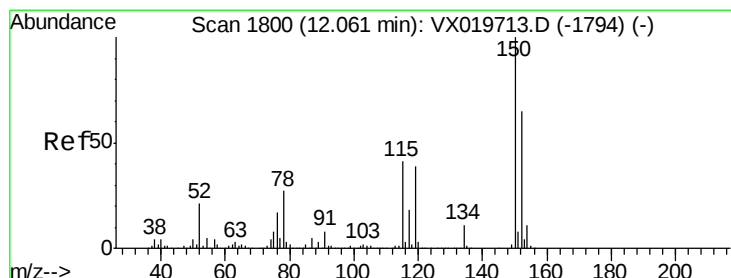
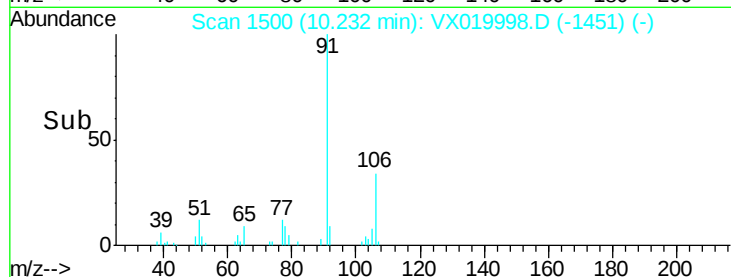
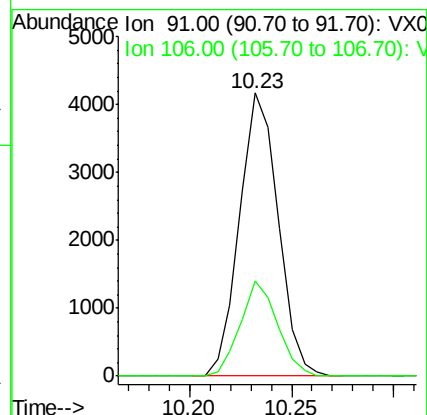
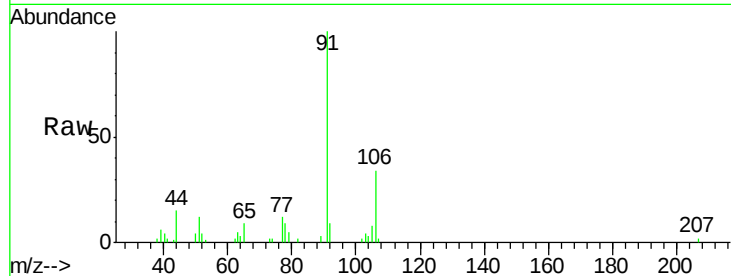
TU032-32-4254-121020

Tgt Ion: 91 Resp: 5477

Ion Ratio Lower Upper

91 100

106 33.8 24.6 37.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

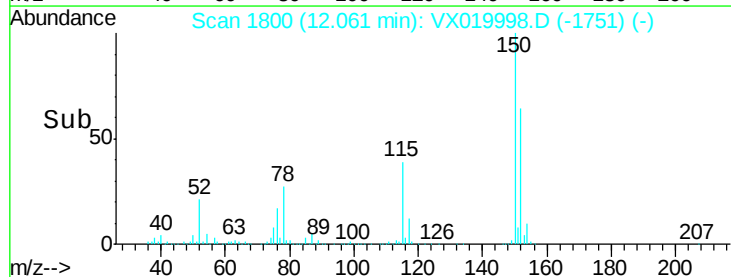
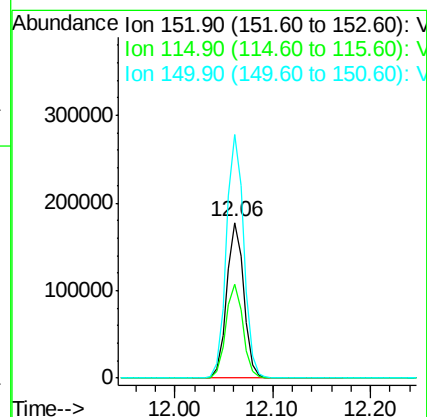
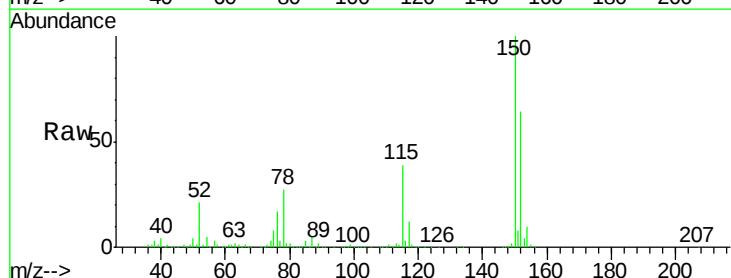
Tgt Ion: 152 Resp: 214447

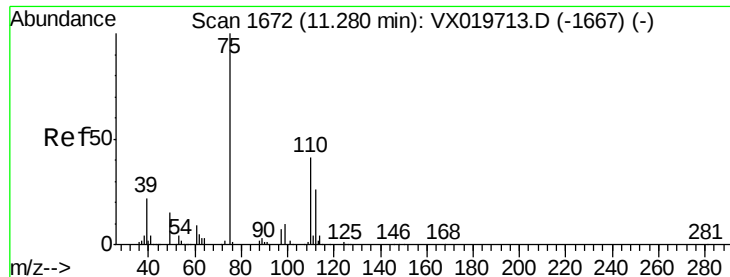
Ion Ratio Lower Upper

152 100

115 60.4 41.1 123.3

150 160.0 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 23.215 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

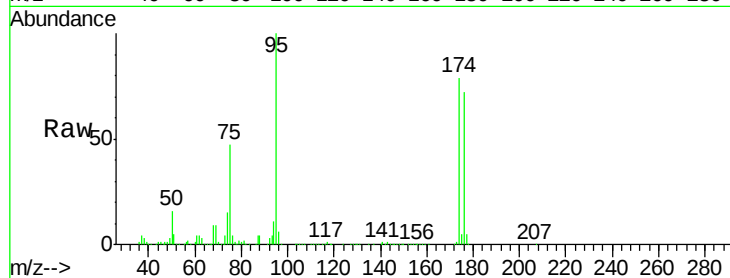
TU032-32-4254-121020

Tgt Ion: 75 Resp: 111658

Ion Ratio Lower Upper

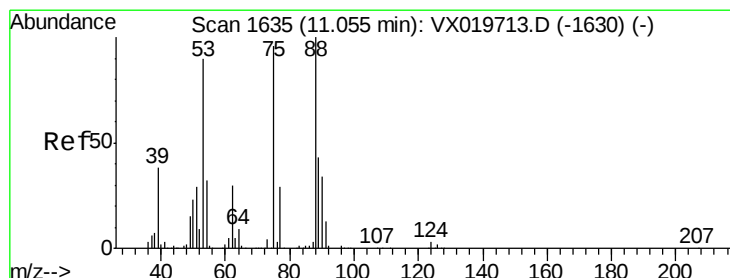
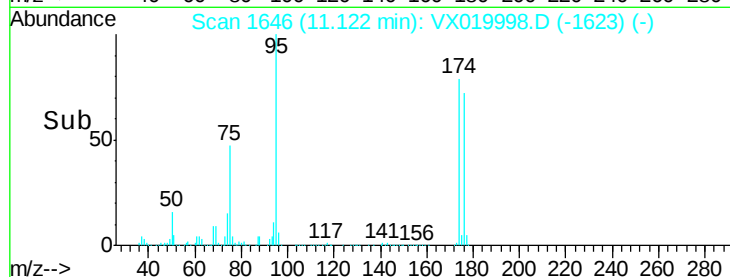
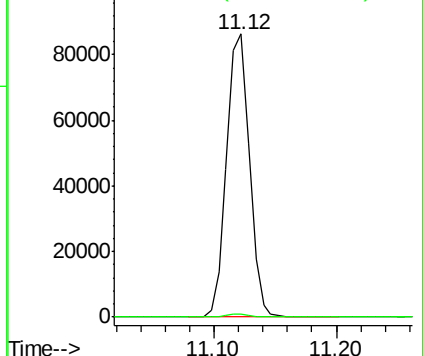
75 100

77 1.2 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 67.111 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019998.D

Acq: 14 Dec 2020 19:45

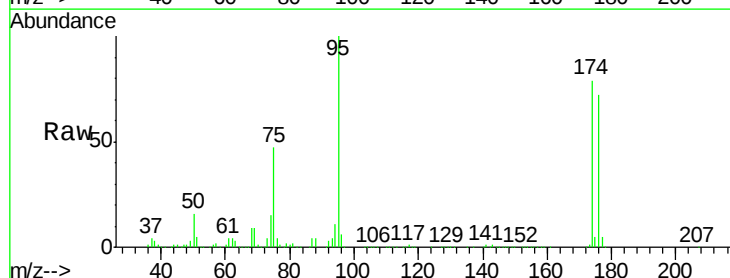
Tgt Ion: 75 Resp: 111658

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#



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

