

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019800.D
 Acq On : 10 Dec 2020 01:05
 Operator : JC/MD
 Sample : L4993-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5031-120720

Quant Time: Dec 10 06:44:42 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	332149	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	545629	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	492878	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	218330	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	206606	47.33	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.66%	
35) Dibromofluoromethane		5.46	113	166676	47.27	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.54%	
50) Toluene-d8		8.70	98	655437	48.69	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.38%	
62) 4-Bromofluorobenzene		11.12	95	232158	45.31	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.62%	

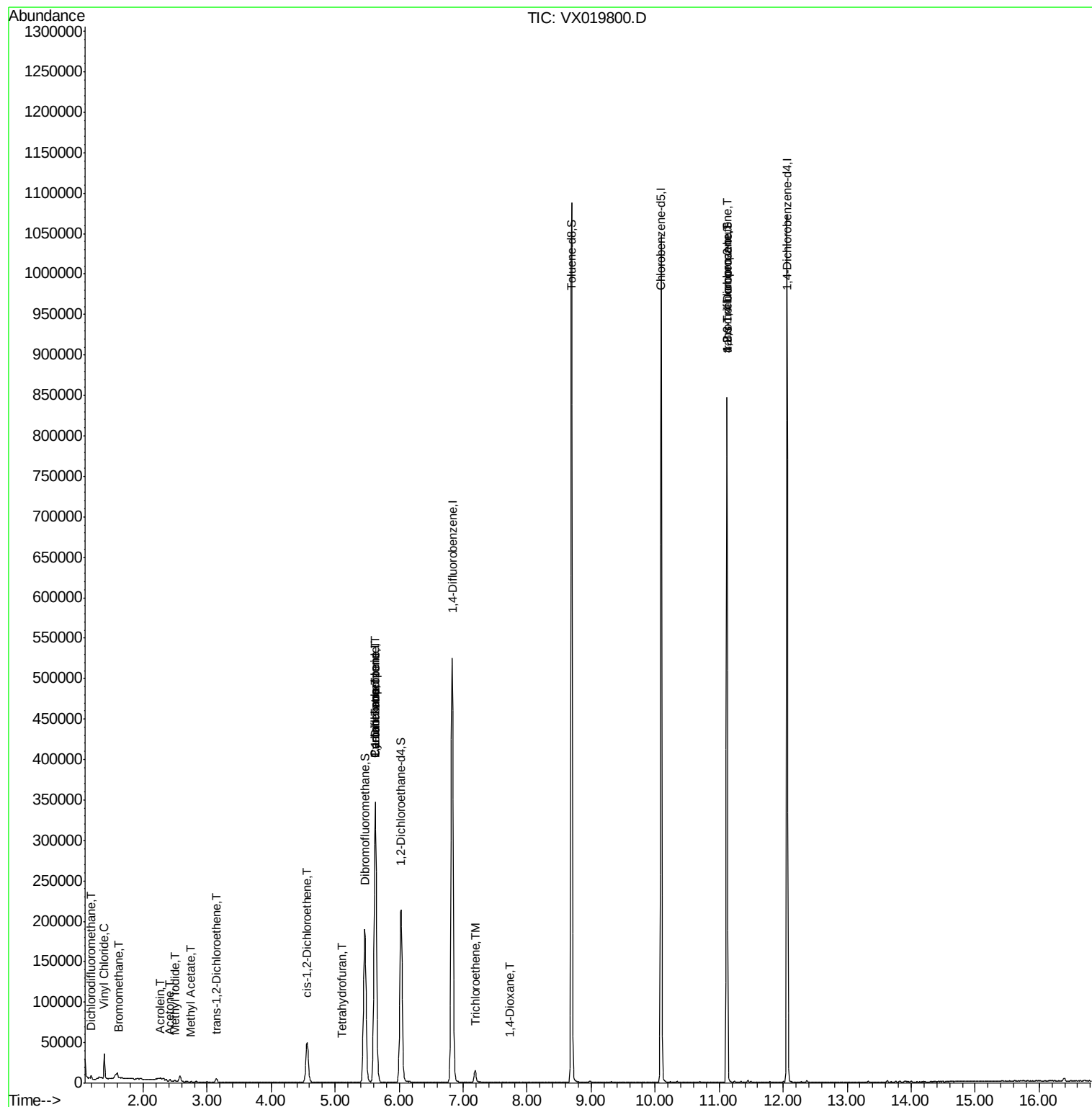
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	1472	0.484	ug/l	89
4) Vinyl Chloride	1.39	62	17891	4.744	ug/l	98
5) Bromomethane	1.63	94	1061	0.847	ug/l	96
10) Methyl Iodide	2.50	142	1841	0.415	ug/l	94
11) Tert butyl alcohol	3.00	59	681	Below Cal	#	73
13) Acrolein	2.28	56	103	0.214	ug/l #	14
16) Acetone	2.42	43	1556	0.948	ug/l #	80
18) Methyl Acetate	2.74	43	827	0.206	ug/l #	74
20) Methylene Chloride	2.83	84	336	Below Cal	#	72
21) trans-1,2-Dichloroethene	3.14	96	1839	0.518	ug/l	90
27) cis-1,2-Dichloroethene	4.56	96	33199	7.996	ug/l	88
29) Tetrahydrofuran	5.10	42	452	0.278	ug/l #	37
31) Cyclohexane	5.62	56	6445	1.187	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24276	4.924	ug/l #	49
38) Carbon Tetrachloride	5.62	117	32547	6.741	ug/l #	16
44) Trichloroethene	7.19	130	5065	1.282	ug/l	99
49) 1,4-Dioxane	7.73	88	20	0.207	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	112524	22.979	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	112524	66.429	ug/l #	12

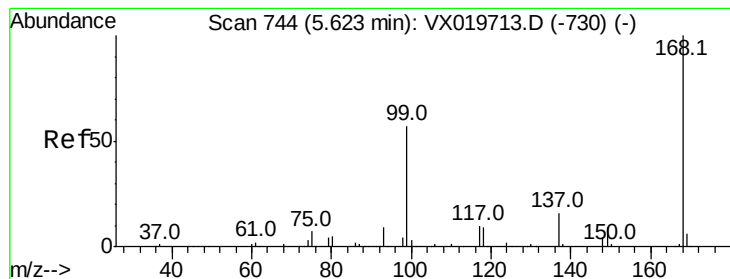
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX120920\
Data File : VX019800.D
Acq On : 10 Dec 2020 01:05
Operator : JC/MD
Sample : L4993-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5031-120720

Quant Time: Dec 10 06:44:42 2020
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: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :

MSVOA_X

ClientSampleId :

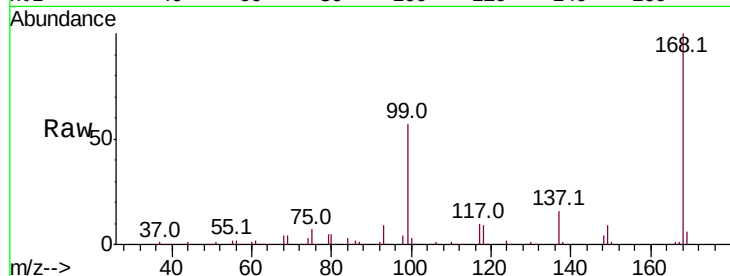
TU032-32-5031-120720

Tot Ion:168 Resp: 332149

Ion Ratio Lower Upper

168 100

99 57.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

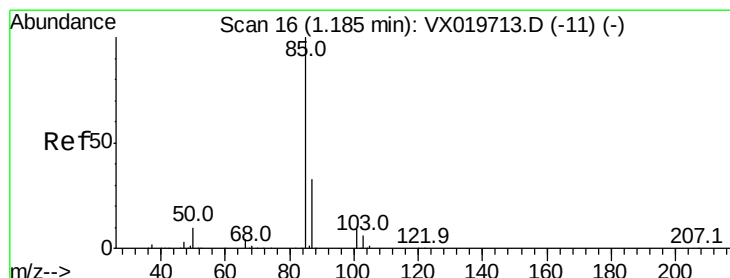
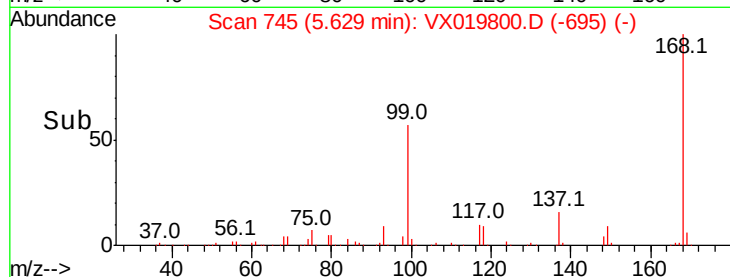
5.63

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.484 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019800.D

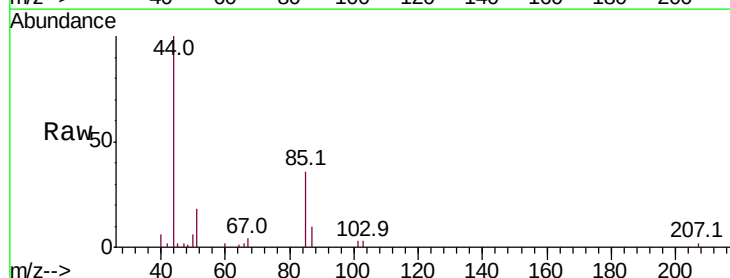
Acq: 10 Dec 2020 01:05

Tgt Ion: 85 Resp: 1472

Ion Ratio Lower Upper

85 100

87 26.7 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

2000 Ion 86.90 (86.60 to 87.60): VX0

1.18

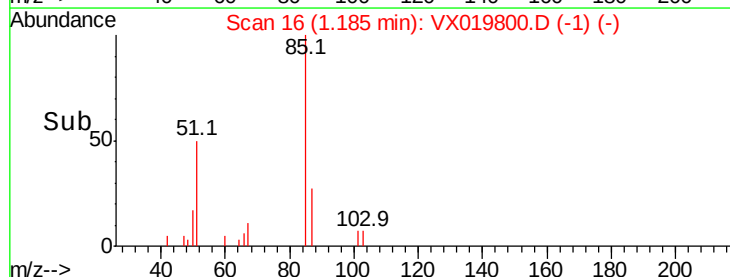
1500

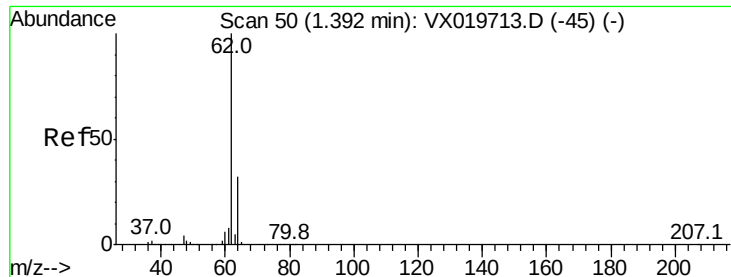
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 4.744 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :

MSVOA_X

ClientSampleId :

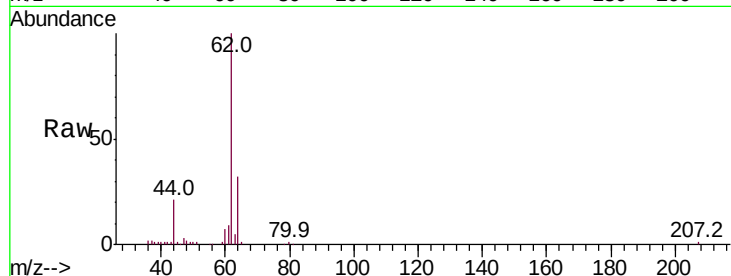
TU032-32-5031-120720

Tot Ion: 62 Resp: 17891

Ion Ratio Lower Upper

62 100

64 31.1 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

20000

15000

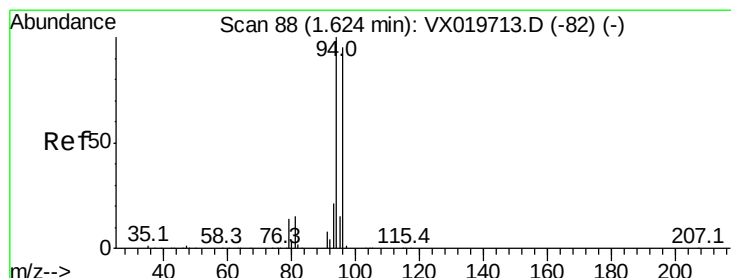
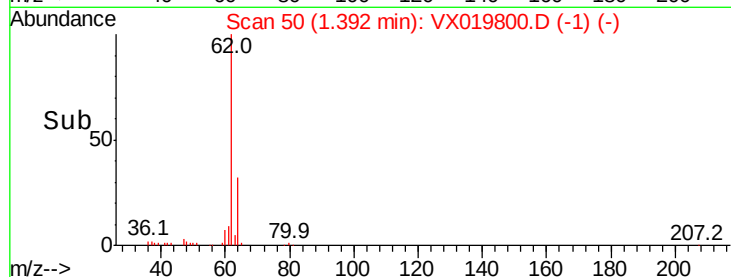
10000

5000

0

1.35 1.40 1.45

Time-->



#5

Bromomethane

Concen: 0.847 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019800.D

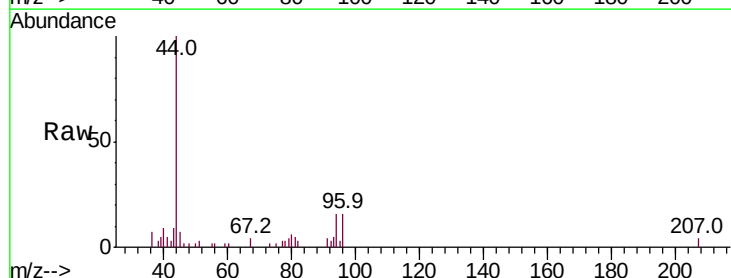
Acq: 10 Dec 2020 01:05

Tgt Ion: 94 Resp: 1061

Ion Ratio Lower Upper

94 100

96 98.9 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

500

400

300

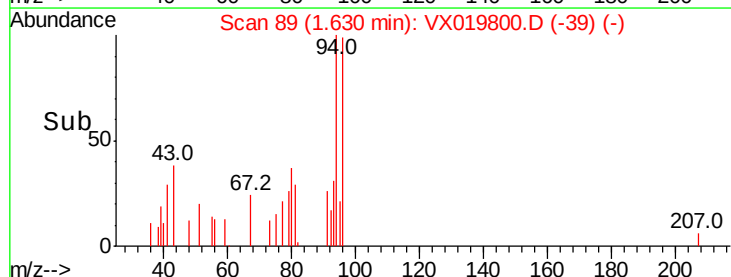
200

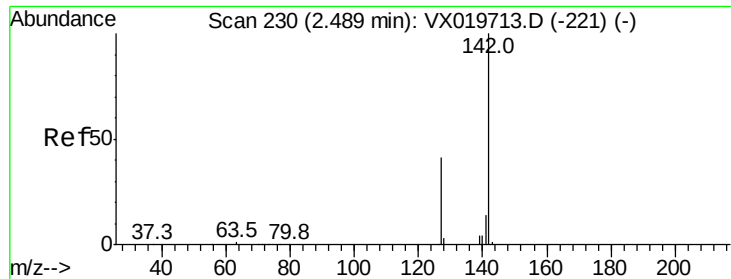
100

0

1.55 1.60 1.65 1.70 1.75

Time-->





#10

Methyl Iodide

Concen: 0.415 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5031-120720

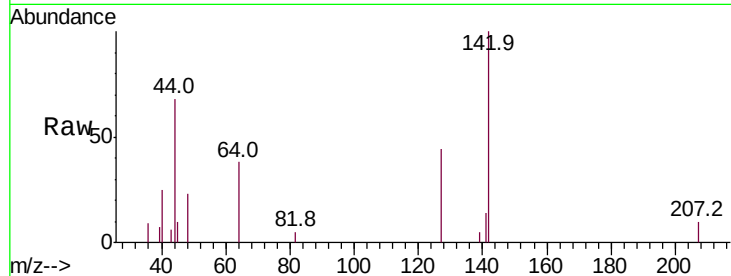
Tot Ion:142 Resp: 1841

Ion Ratio Lower Upper

142 100

127 46.1 33.3 49.9

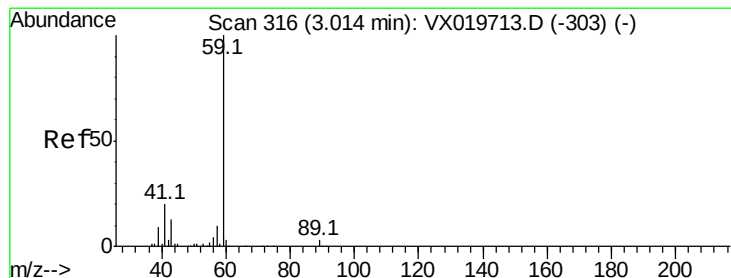
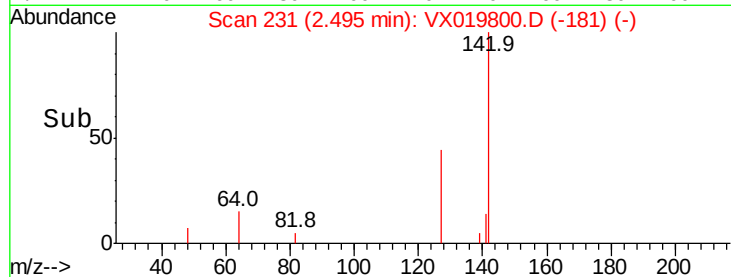
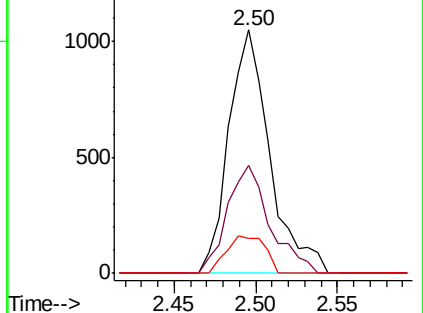
141 14.4 11.4 17.0



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.00 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX019800.D

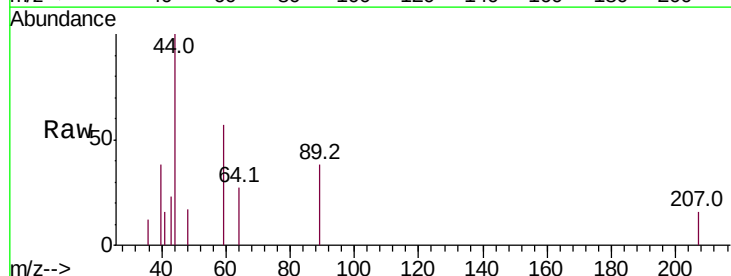
Acq: 10 Dec 2020 01:05

Tgt Ion: 59 Resp: 681

Ion Ratio Lower Upper

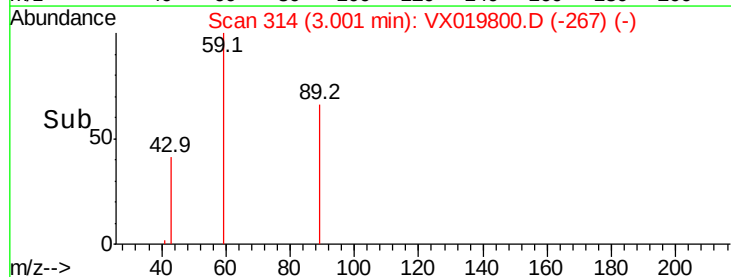
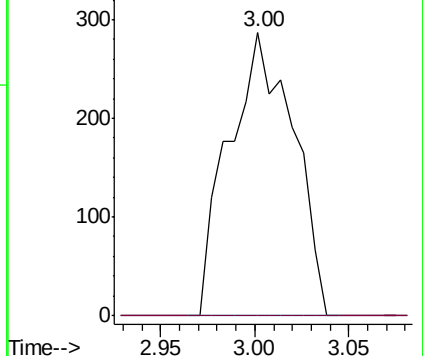
59 100

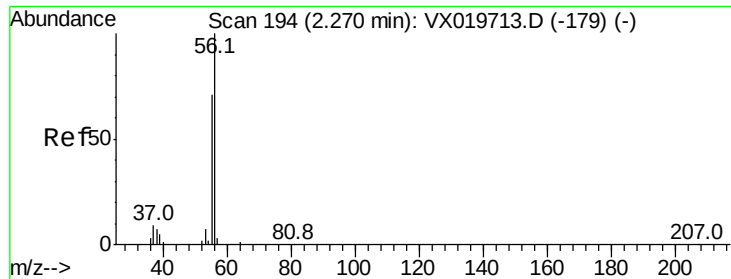
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.214 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :

MSVOA_X

ClientSampleId :

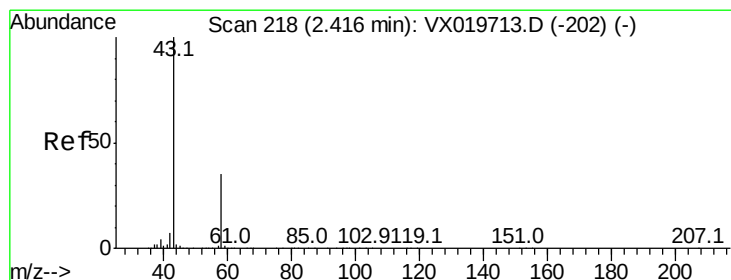
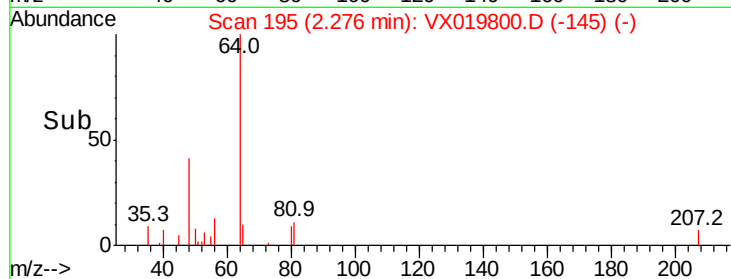
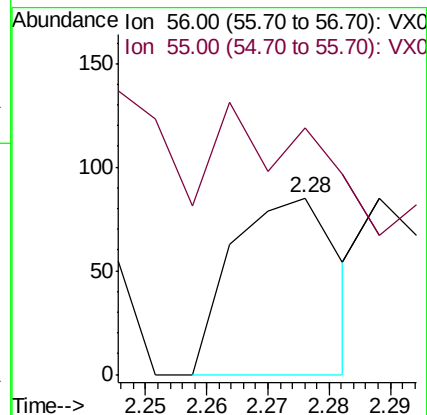
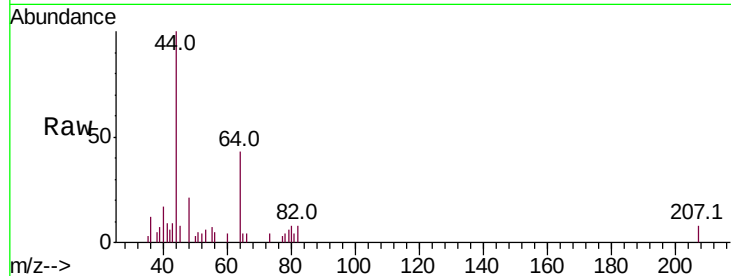
TU032-32-5031-120720

Tot Ion: 56 Resp: 103

Ion Ratio Lower Upper

56 100

55 0.0 56.4 84.6#



#16

Acetone

Concen: 0.948 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019800.D

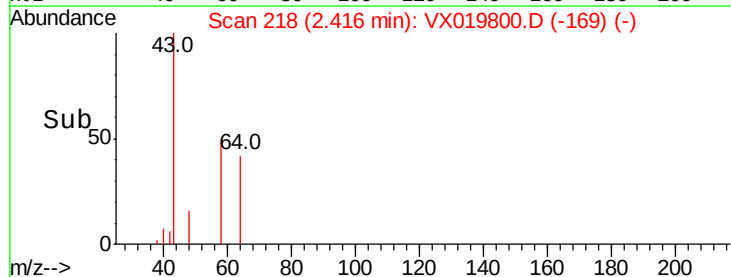
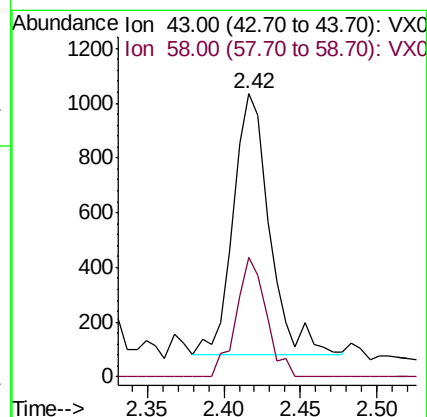
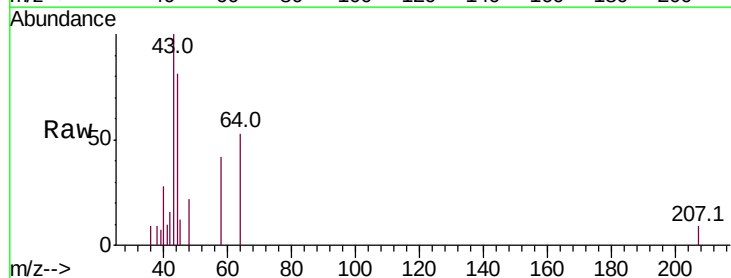
Acq: 10 Dec 2020 01:05

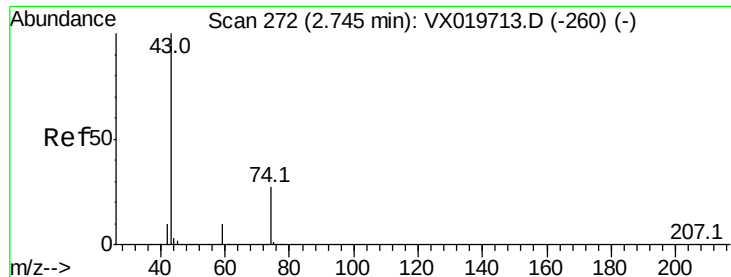
Tgt Ion: 43 Resp: 1556

Ion Ratio Lower Upper

43 100

58 46.2 27.8 41.8#

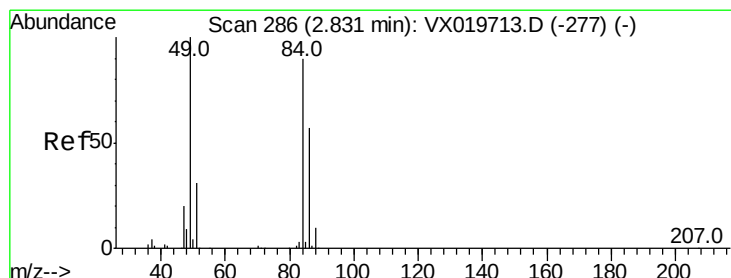
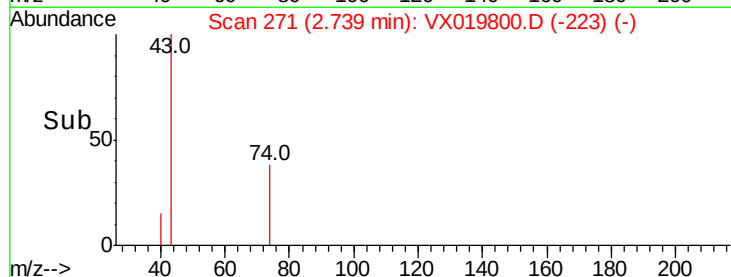
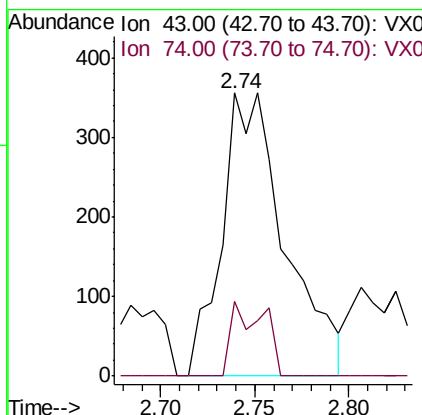
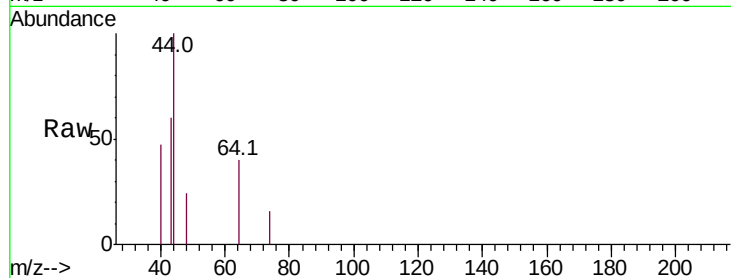




#18
Methyl Acetate
Concen: 0.206 ug/l
RT: 2.74 min Scan# 271
Delta R.T. -0.01 min
Lab File: VX019800.D
Acq: 10 Dec 2020 01:05

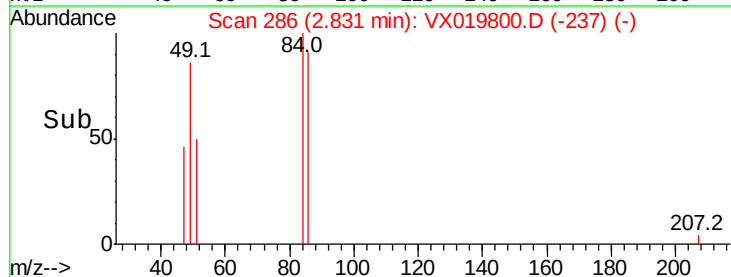
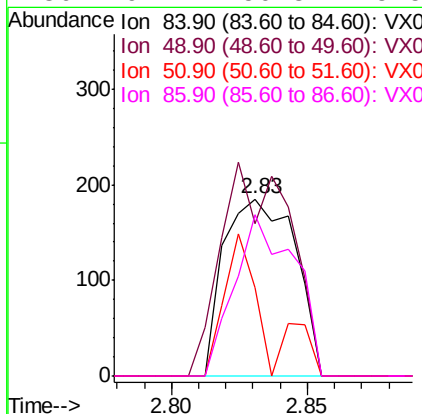
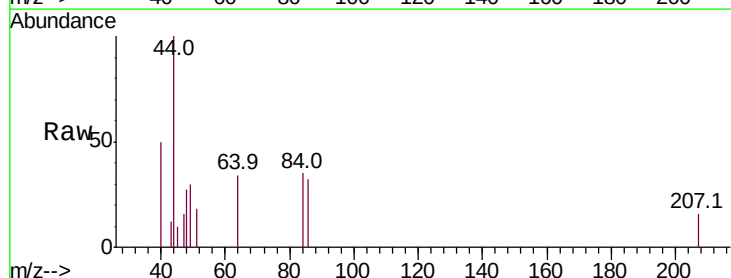
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5031-120720

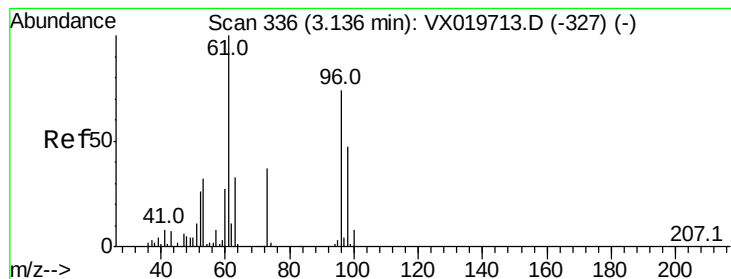
Tot Ion: 43 Resp: 827
Ion Ratio Lower Upper
43 100
74 13.7 21.9 32.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019800.D
Acq: 10 Dec 2020 01:05

Tgt Ion: 84 Resp: 336
Ion Ratio Lower Upper
84 100
49 85.9 88.6 132.8#
51 50.3 27.0 40.6#
86 91.4 50.3 75.5#





#21

trans-1,2-Dichloroethene

Concen: 0.518 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.01 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5031-120720

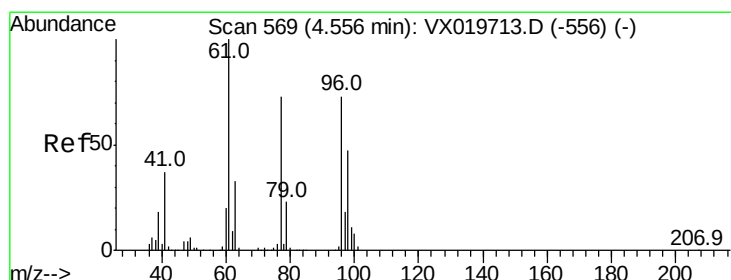
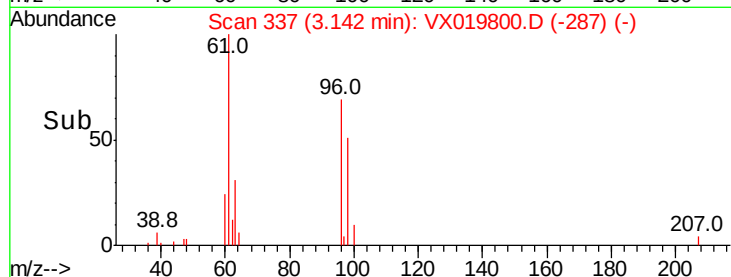
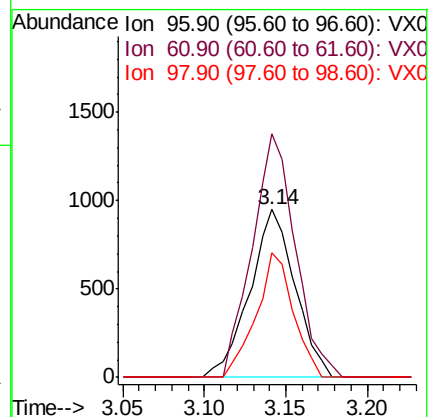
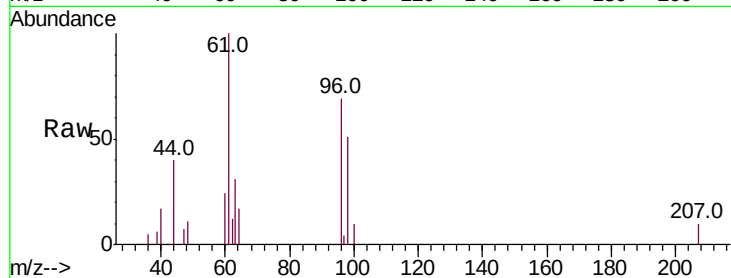
Tot Ion: 96 Resp: 1839

Ion Ratio Lower Upper

96 100

61 144.9 107.7 161.5

98 74.1 50.4 75.6



#27

cis-1,2-Dichloroethene

Concen: 7.996 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

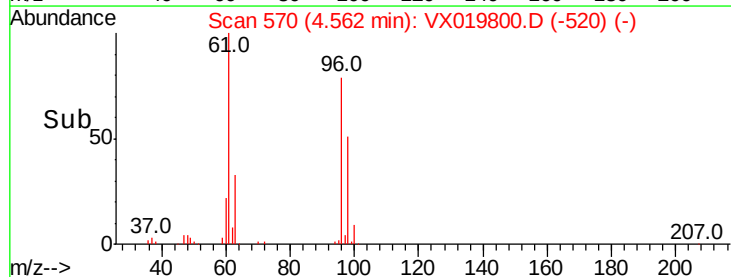
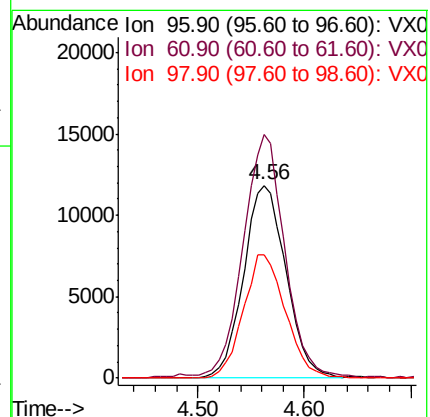
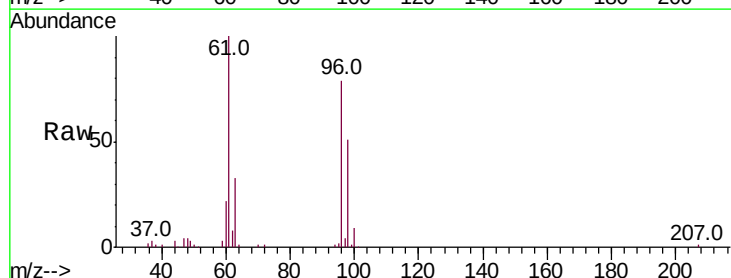
Tgt Ion: 96 Resp: 33199

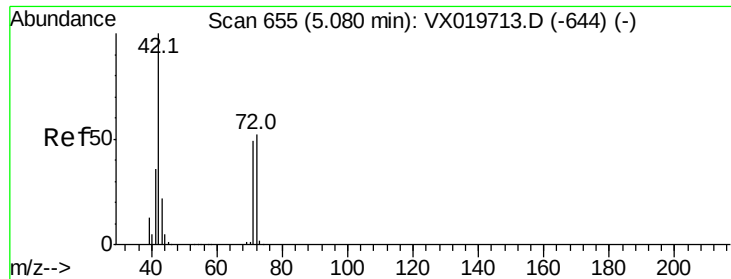
Ion Ratio Lower Upper

96 100

61 122.6 0.0 285.6

98 63.4 0.0 129.6

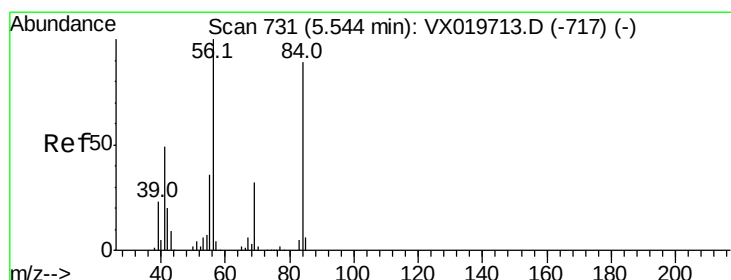
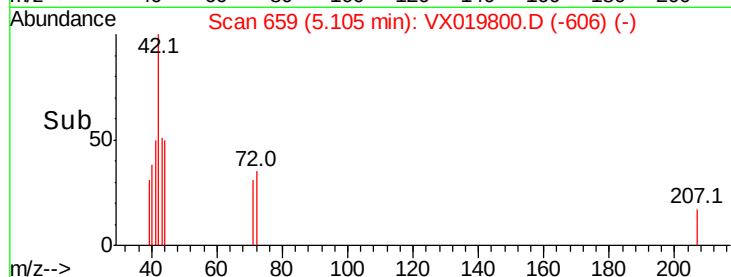
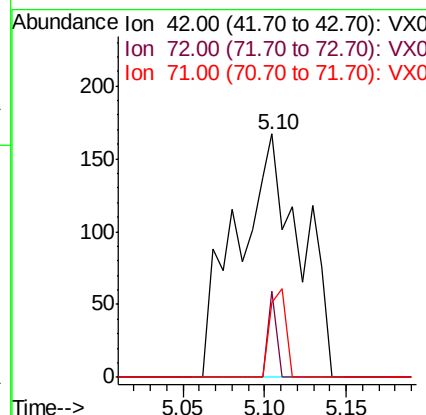
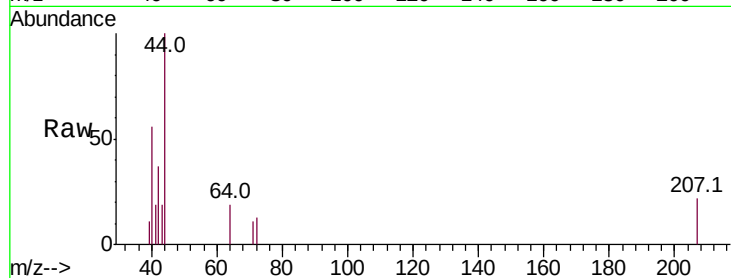




#29
Tetrahydrofuran
Concen: 0.278 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019800.D
Acq: 10 Dec 2020 01:05

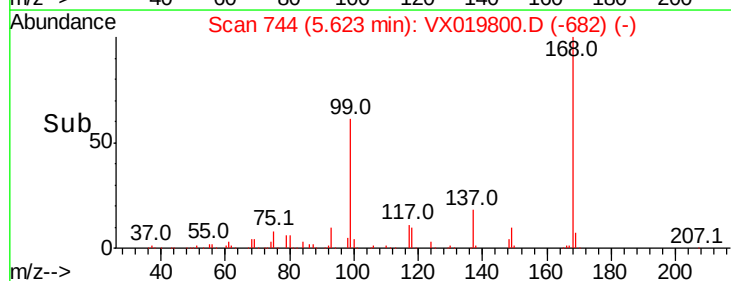
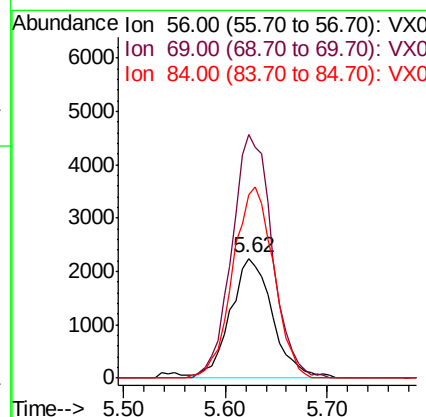
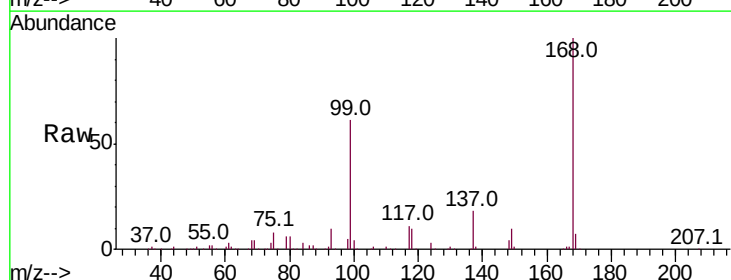
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5031-120720

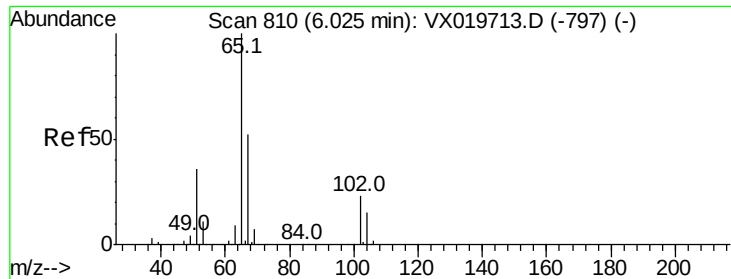
Tot Ion: 42 Resp: 452
Ion Ratio Lower Upper
42 100
72 4.9 41.7 62.5#
71 9.1 38.4 57.6#



#31
Cyclohexane
Concen: 1.187 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019800.D
Acq: 10 Dec 2020 01:05

Tgt Ion: 56 Resp: 6445
Ion Ratio Lower Upper
56 100
69 203.1 25.3 37.9#
84 153.1 71.4 107.0#





#33

1,2-Dichloroethane-d4

Concen: 47.328 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

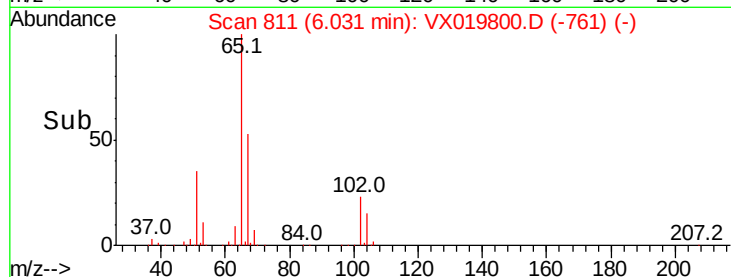
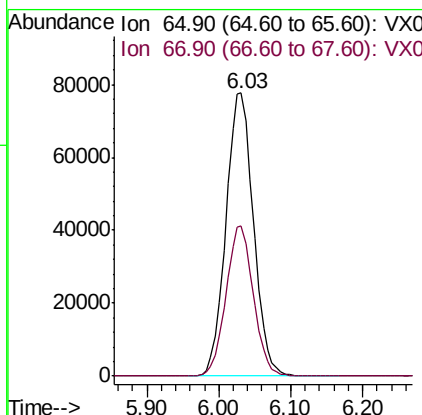
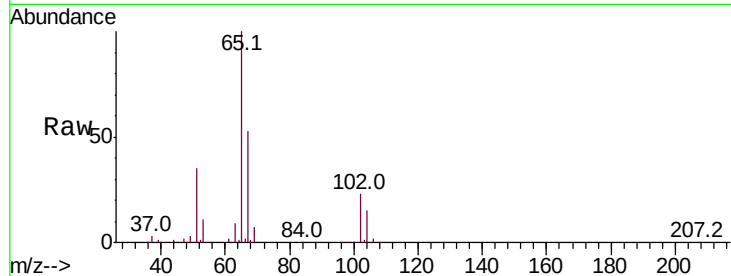
Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5031-120720

Tot Ion: 65 Resp: 206606

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	105.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

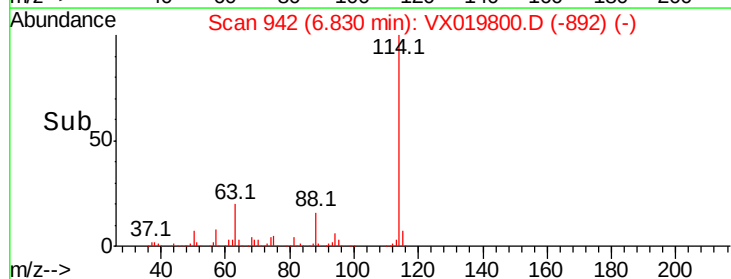
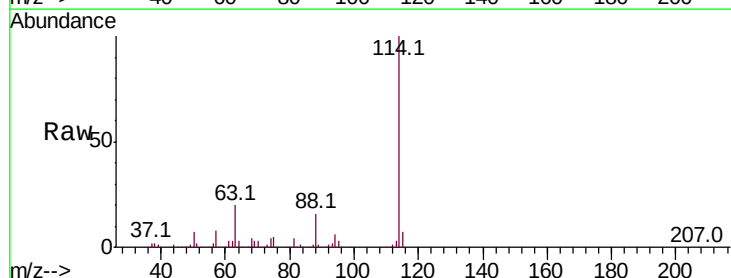
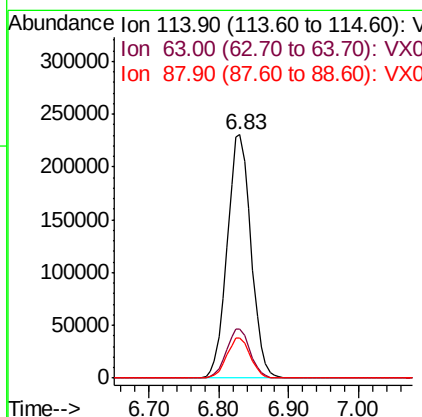
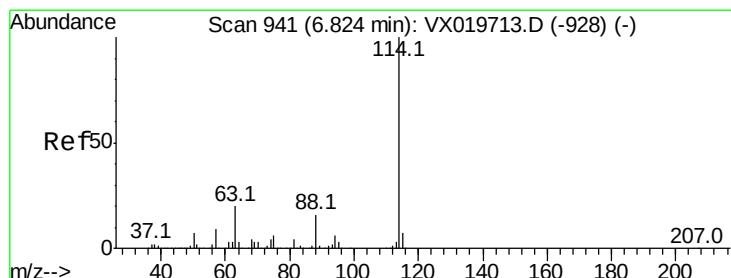
Delta R.T. 0.01 min

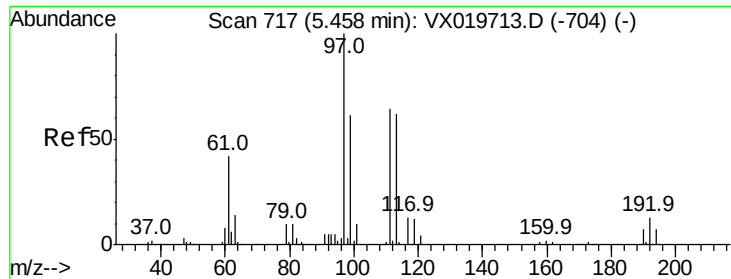
Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Tgt Ion: 114 Resp: 545629

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.8
88	16.3	0.0	32.8





#35

Dibromofluoromethane

Concen: 47.266 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5031-120720

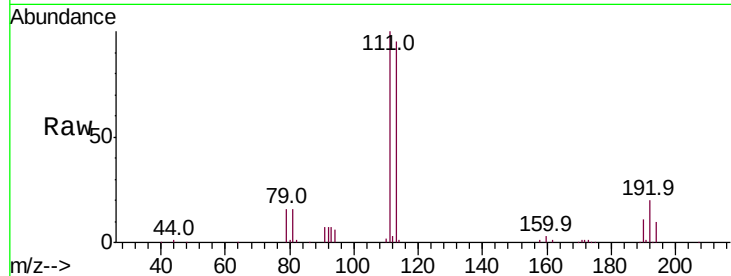
Tot Ion:113 Resp: 166676

Ion Ratio Lower Upper

113 100

111 103.2 81.9 122.9

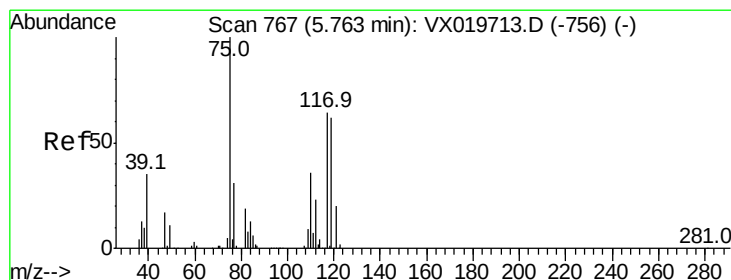
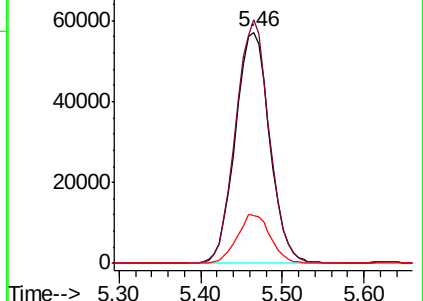
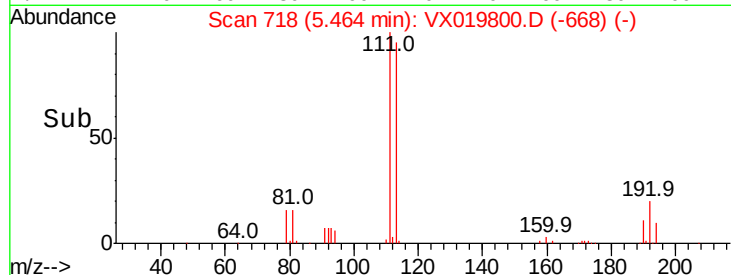
192 20.7 16.7 25.1



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: 4.924 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

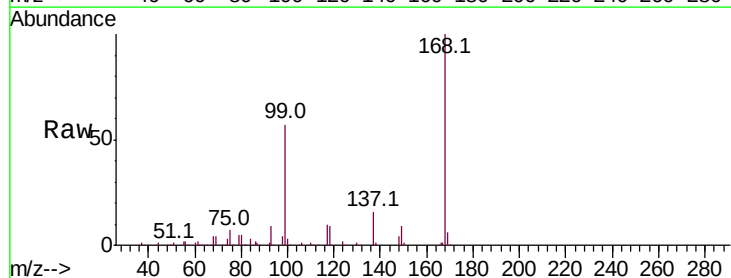
Tgt Ion: 75 Resp: 24276

Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.4#

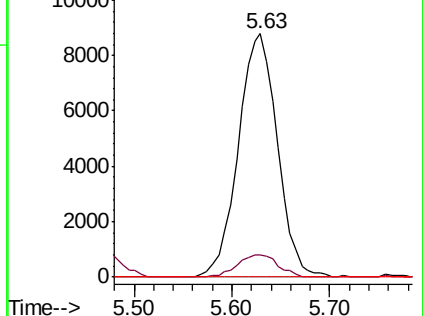
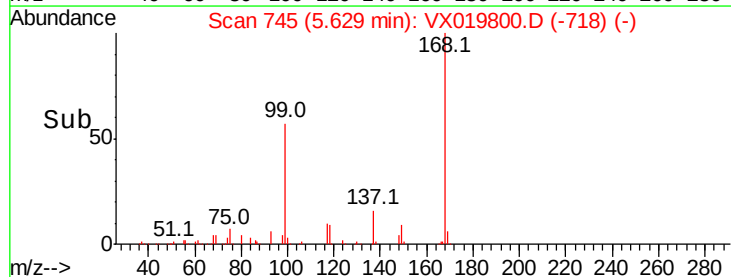
77 0.0 25.3 37.9#

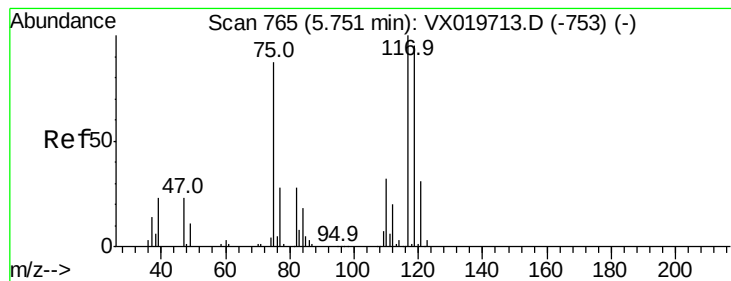


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.741 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5031-120720

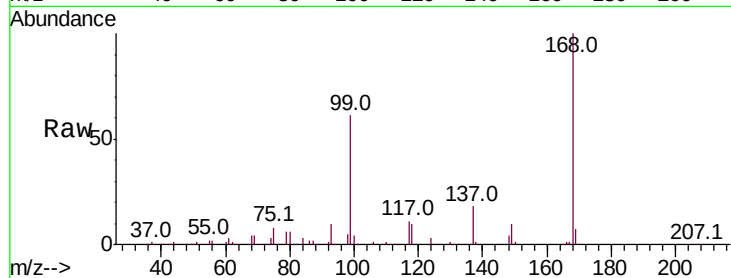
Tot Ion:117 Resp: 32547

Ion Ratio Lower Upper

117 100

119 4.2 76.2 114.2#

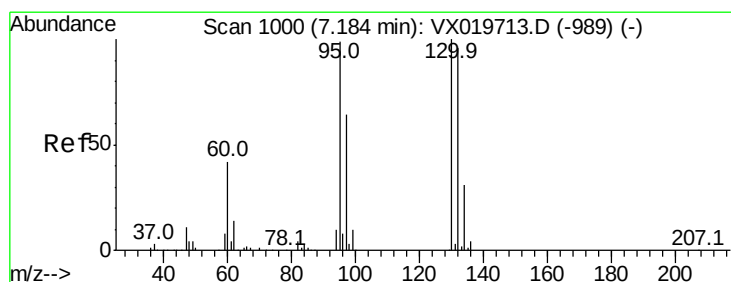
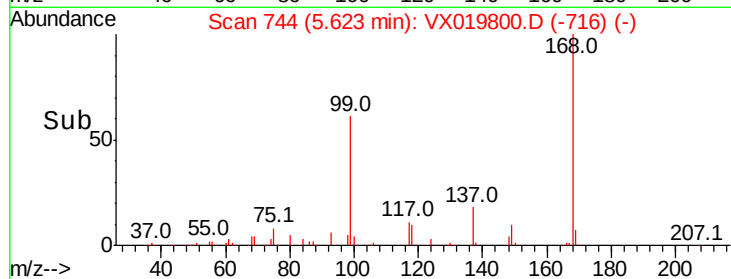
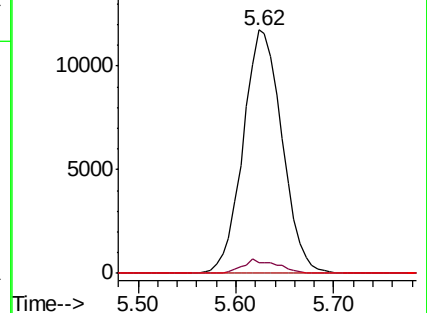
121 0.0 24.8 37.2#



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



#44

Trichloroethene

Concen: 1.282 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019800.D

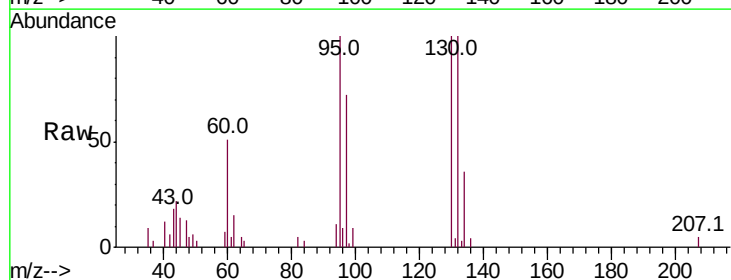
Acq: 10 Dec 2020 01:05

Tgt Ion:130 Resp: 5065

Ion Ratio Lower Upper

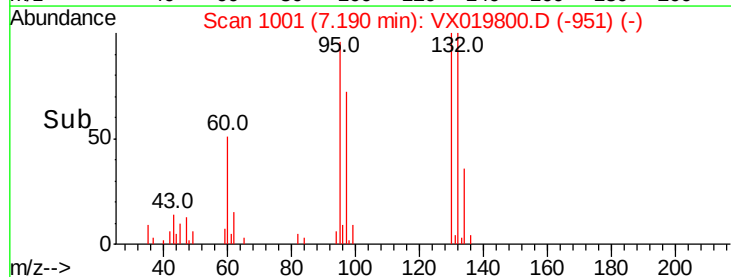
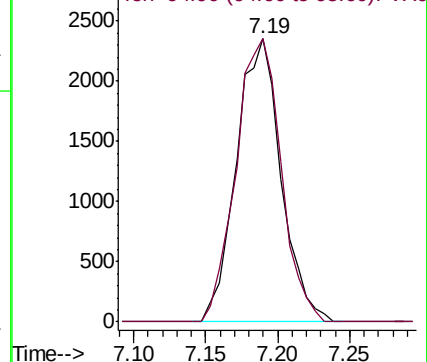
130 100

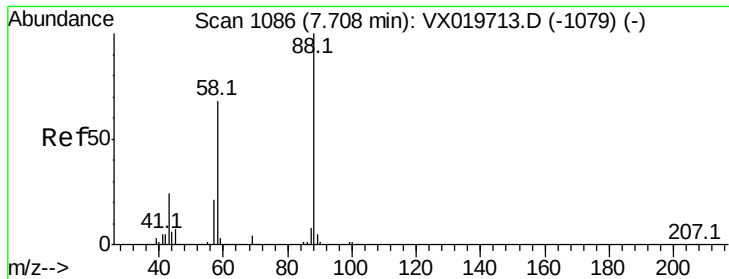
95 100.0 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 0.207 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.02 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5031-120720

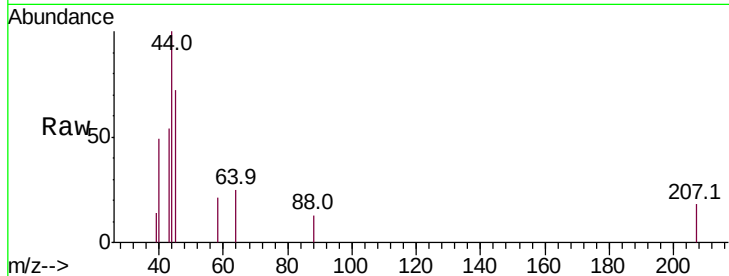
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 3870.0 23.2 34.8#

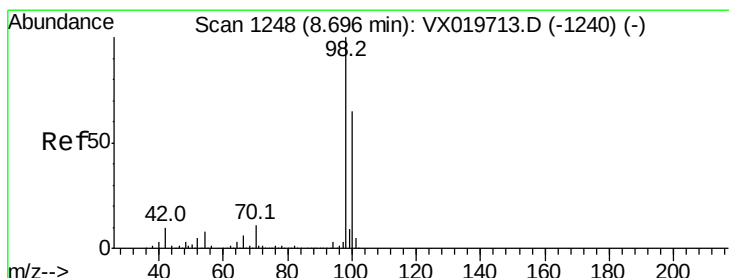
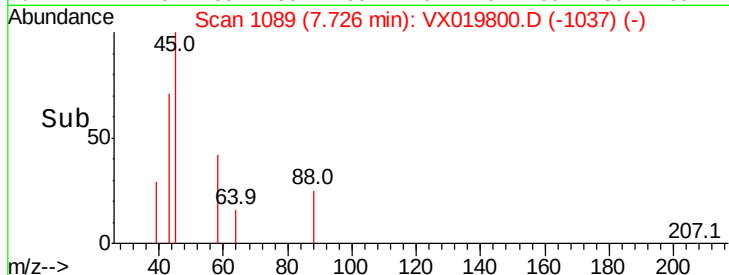
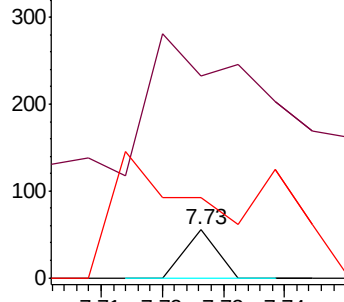
58 1055.0 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 48.686 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019800.D

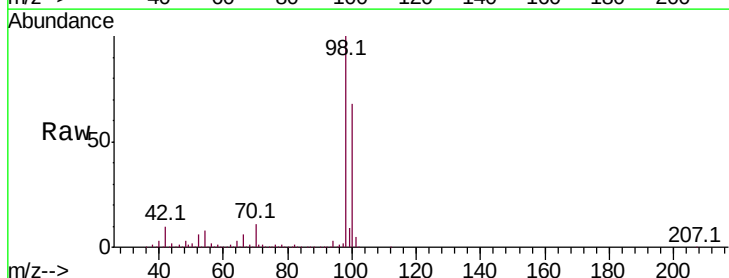
Acq: 10 Dec 2020 01:05

Tgt Ion: 98 Resp: 655437

Ion Ratio Lower Upper

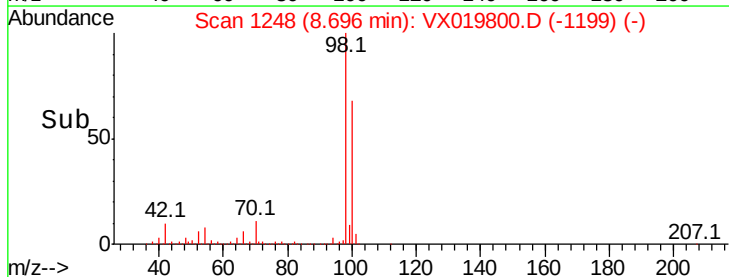
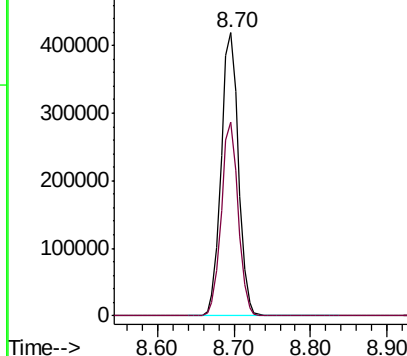
98 100

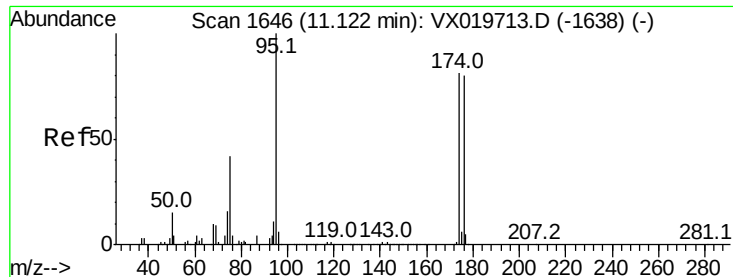
100 66.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.308 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5031-120720

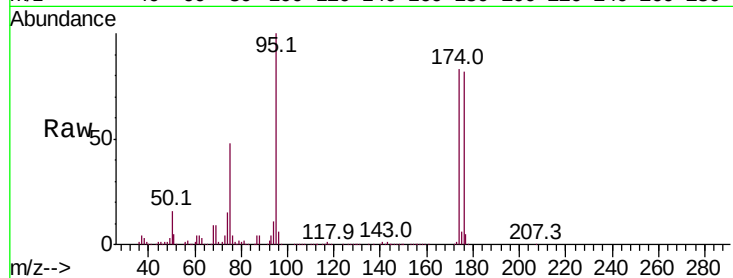
Tot Ion: 95 Resp: 232158

Ion Ratio Lower Upper

95 100

174 79.7 0.0 154.6

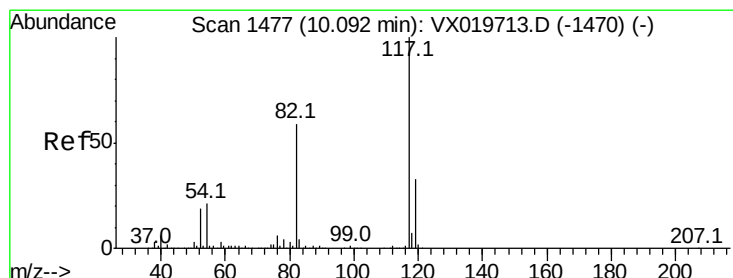
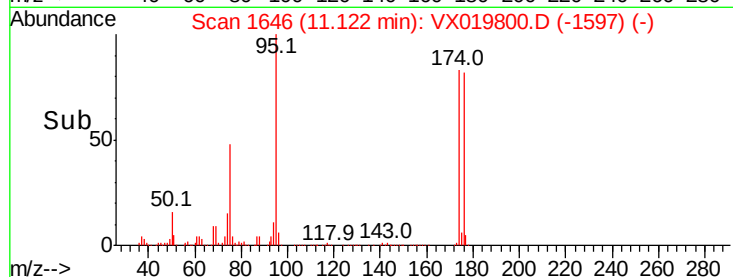
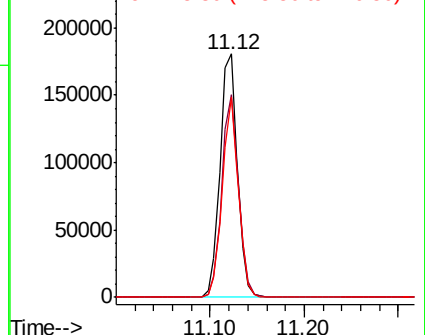
176 76.0 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

Ion 173.80 (173.50 to 174.50): VX019713.D (-1638) (-)

Ion 175.80 (175.50 to 176.50): VX019713.D (-1638) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

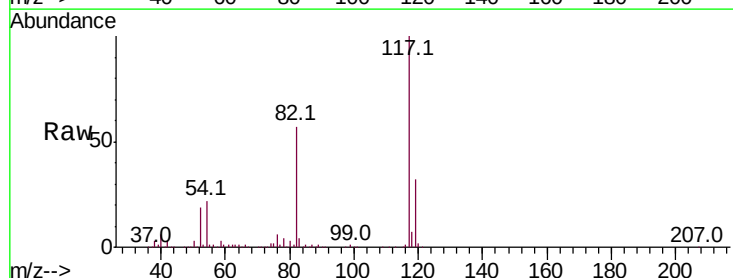
Tgt Ion: 117 Resp: 492878

Ion Ratio Lower Upper

117 100

82 57.2 47.4 71.2

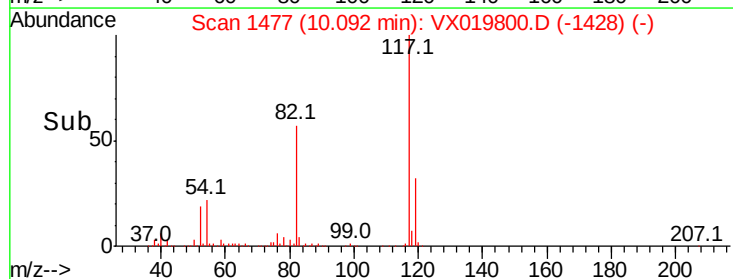
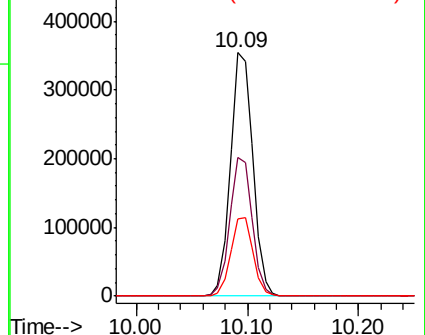
119 32.0 26.6 39.8

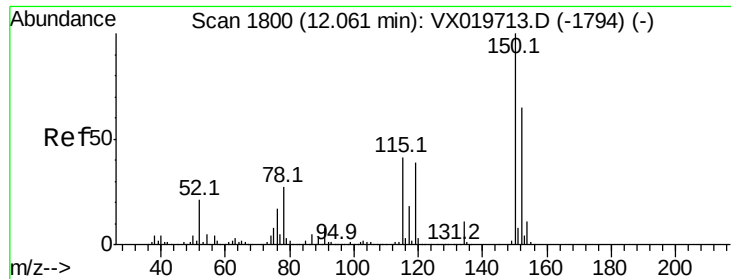


Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019713.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019713.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019800.D

Acq: 10 Dec 2020 01:05

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5031-120720

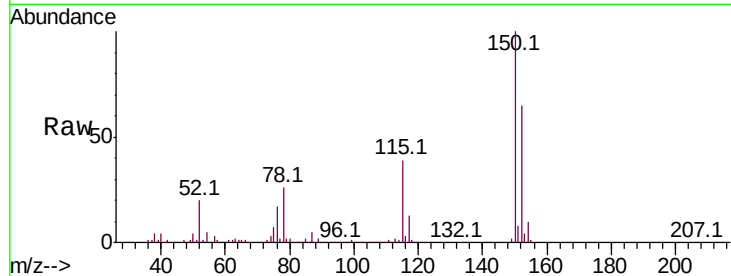
Tot Ion:152 Resp: 218330

Ion Ratio Lower Upper

152 100

115 58.9 41.1 123.3

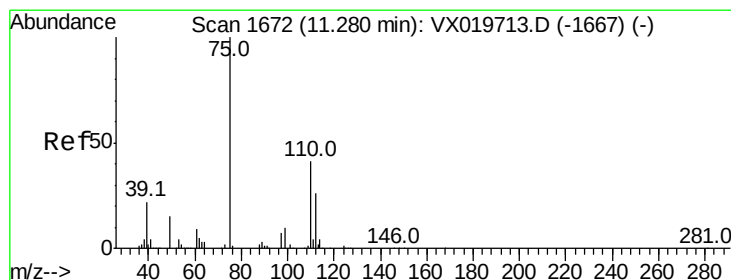
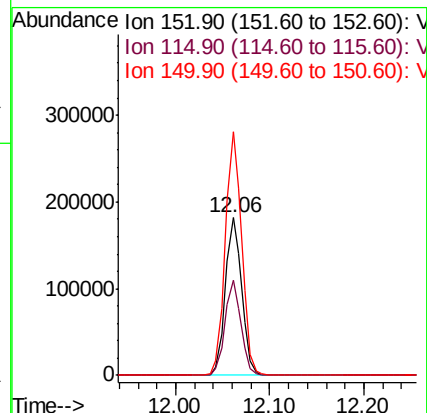
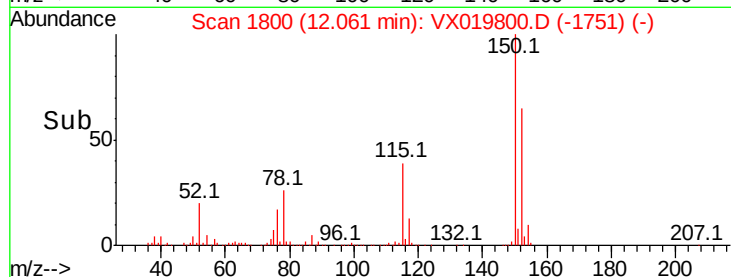
150 155.0 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.979 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019800.D

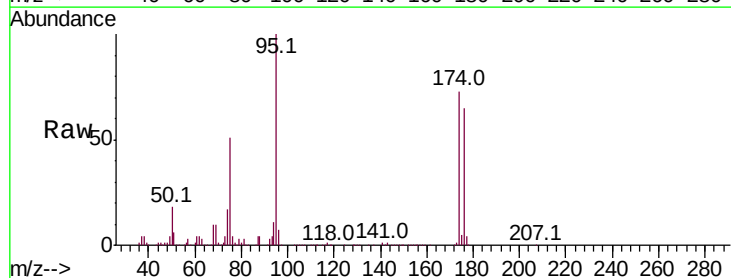
Acq: 10 Dec 2020 01:05

Tgt Ion: 75 Resp: 112524

Ion Ratio Lower Upper

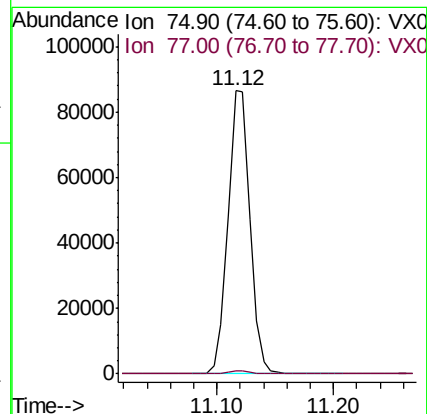
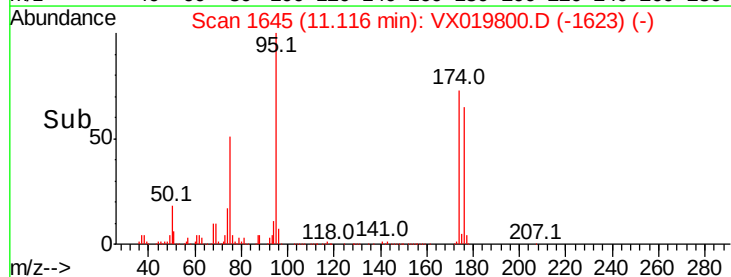
75 100

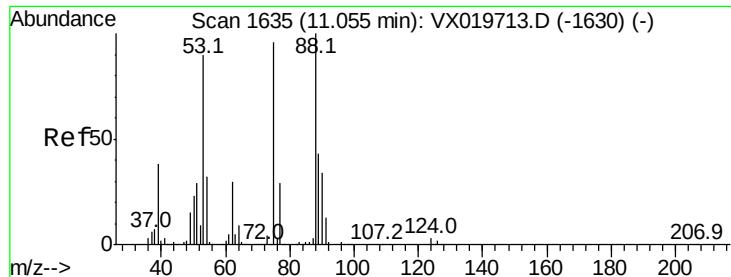
77 1.3 19.1 57.5#



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: 66.429 ug/l
 RT: 11.12 min Scan# 1645
 Delta R.T. 0.06 min
 Lab File: VX019800.D
 Acq: 10 Dec 2020 01:05

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5031-120720

Tot Ion: 75 Resp: 112524
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.5 111.7#
 89 0.0 37.9 56.9#

