

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090120\
 Data File : VN063165.D
 Acq On : 1 Sep 2020 19:17
 Operator : JC/MD
 Sample : L3850-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 02 04:05:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	366240	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	706242	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	703612	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	284488	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	286509	47.86	ug/l	0.00
Spiked Amount			Recovery	=	95.72%	
35) Dibromofluoromethane	7.55	113	222724	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	10.06	98	900633	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
62) 4-Bromofluorobenzene	12.38	95	318361	52.19	ug/l	0.00
Spiked Amount			Recovery	=	104.38%	

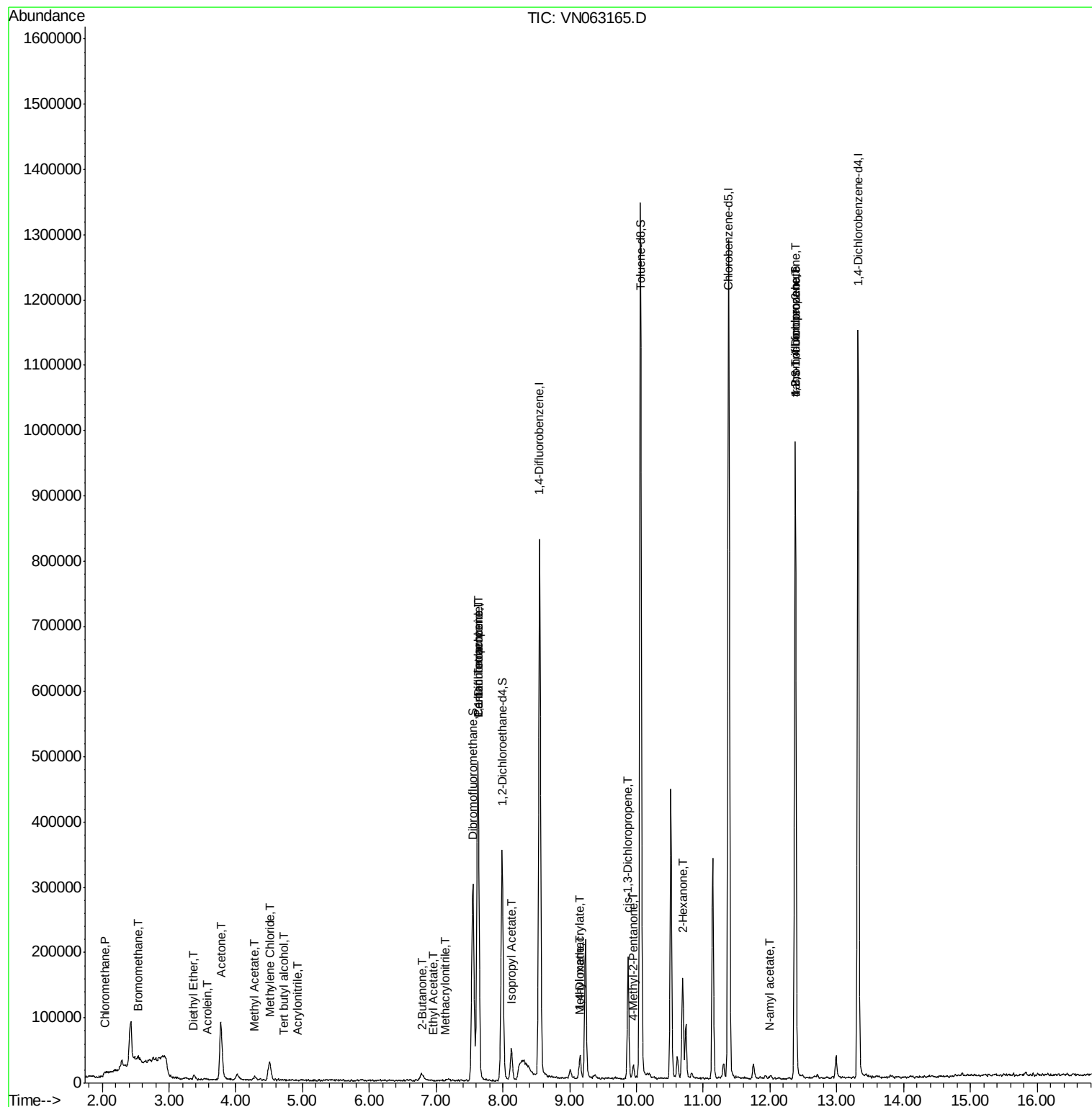
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2628	0.500	ug/l	93
5) Bromomethane	2.54	94	2225	0.456	ug/l #	51
7) Trichlorofluoromethane	2.96	101	32	Below Cal	#	28
8) Diethyl Ether	3.38	74	3723	1.341	ug/l	83
11) Tert butyl alcohol	4.72	59	282	0.384	ug/l #	72
13) Acrolein	3.57	56	38	15.896	ug/l #	1
15) Acrylonitrile	4.93	53	319	2.557	ug/l #	63
16) Acetone	3.77	43	152685	89.713	ug/l	98
18) Methyl Acetate	4.28	43	7672	1.758	ug/l #	69
20) Methylene Chloride	4.50	84	19034	3.520	ug/l #	87
25) 2-Butanone	6.80	43	9096	3.452	ug/l #	86
31) Cyclohexane	7.62	56	11405	Below Cal	#	34
36) 1,1-Dichloropropene	7.63	75	33670	4.959	ug/l #	52
37) Ethyl Acetate	6.96	43	300	0.427	ug/l #	1
38) Carbon Tetrachloride	7.63	117	40508	5.883	ug/l #	14
41) Methacrylonitrile	7.13	41	615	0.215	ug/l #	47
43) Isopropyl Acetate	8.13	43	58728	5.304	ug/l #	89
48) Methyl methacrylate	9.14	41	1738	0.348	ug/l #	45
49) 1,4-Dioxane	9.16	88	232	3.005	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	13290	2.209	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	32628	3.787	ug/l #	61
59) 2-Hexanone	10.69	43	120976	28.609	ug/l #	26
74) N-amyl acetate	12.01	43	3365	0.372	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	186889	33.435	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	186889	80.812	ug/l #	10

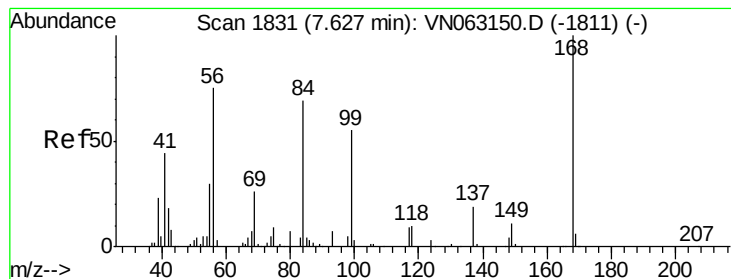
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 01 04:21:28 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

Instrument :

MSVOA_N

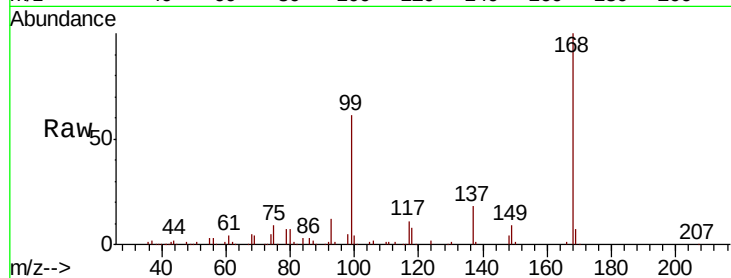
ClientSampleId :

Tot Ion:168 Resp: 366240

Ion Ratio Lower Upper

168 100

99 61.3 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): VN063165.D

Ion 98.90 (98.60 to 99.60): VN063165.D

7.63

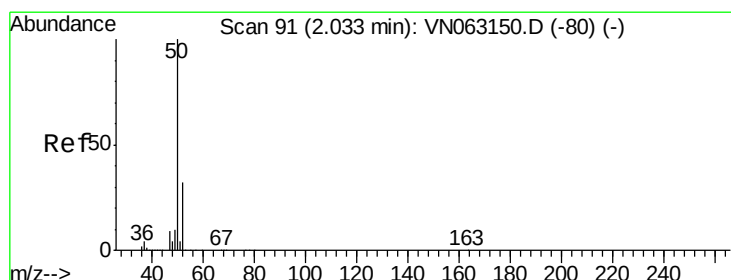
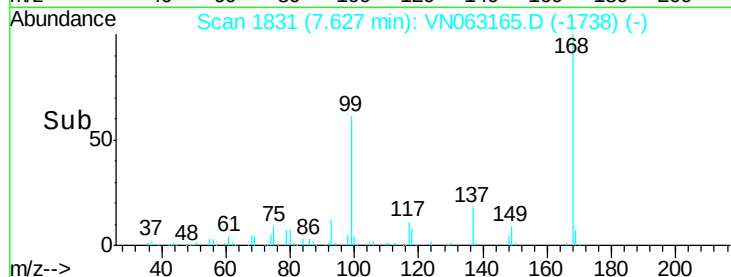
150000

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: 0.500 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063165.D

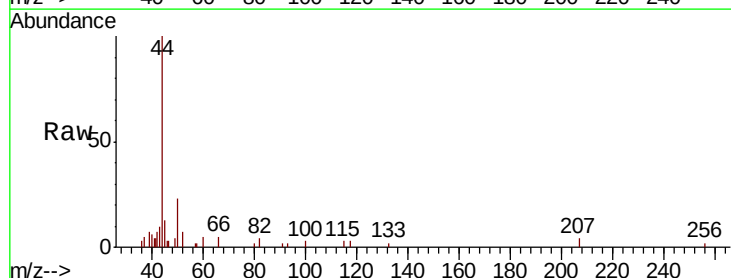
Acq: 1 Sep 2020 19:17

Tgt Ion: 50 Resp: 2628

Ion Ratio Lower Upper

50 100

52 28.4 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VN063165.D

Ion 51.90 (51.60 to 52.60): VN063165.D

2.04

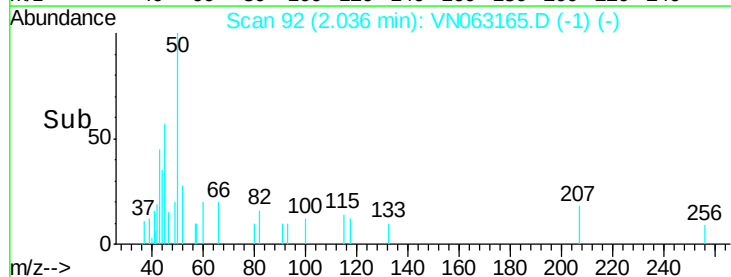
1500

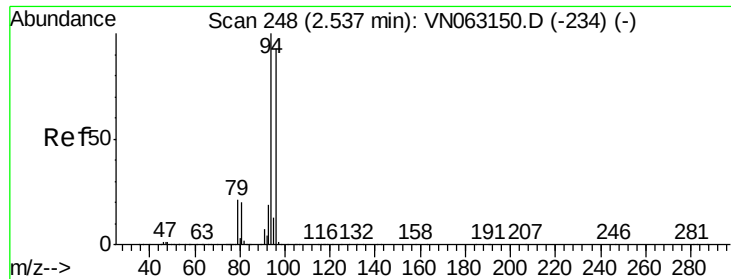
1000

500

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.456 ug/l

RT: 2.54 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

Instrument :

MSVOA_N

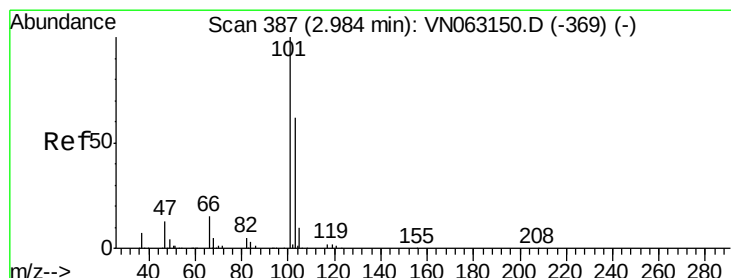
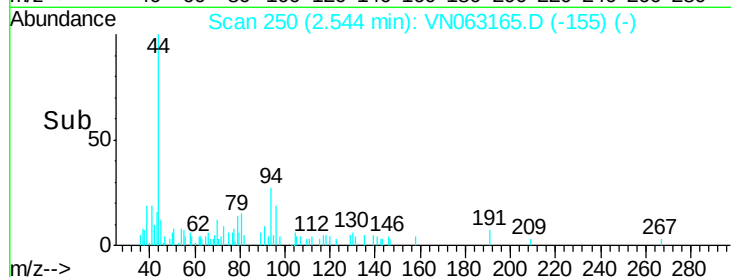
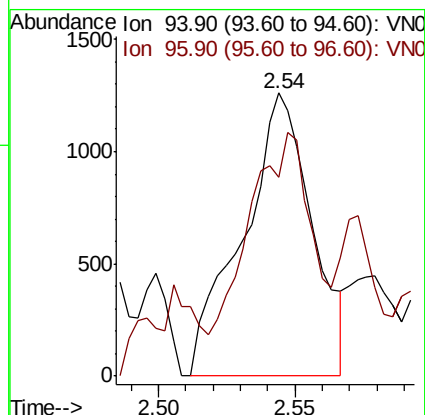
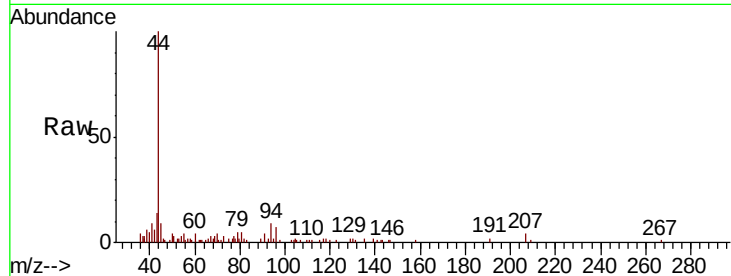
ClientSampleId :

Tot Ion: 94 Resp: 2225

Ion Ratio Lower Upper

94 100

96 45.8 74.4 111.6#



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.96 min Scan# 378

Delta R.T. -0.03 min

Lab File: VN063165.D

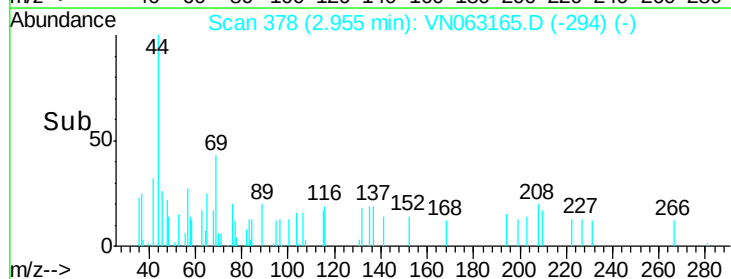
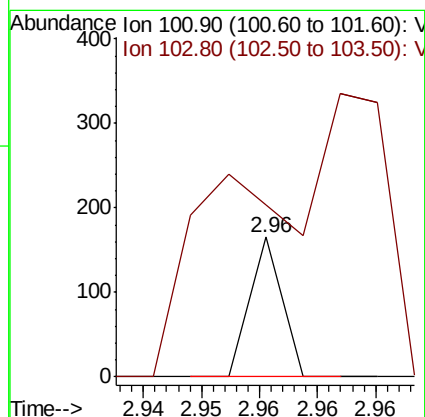
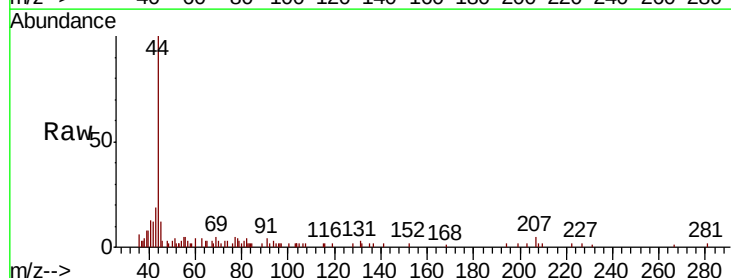
Acq: 1 Sep 2020 19:17

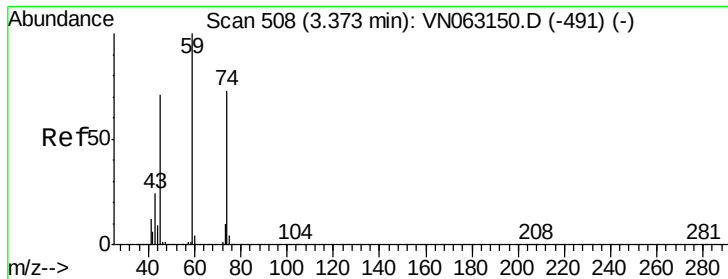
Tgt Ion: 101 Resp: 32

Ion Ratio Lower Upper

101 100

103 6.7 49.7 74.5#





#8

Diethyl Ether

Concen: 1.341 ug/l

RT: 3.38 min Scan# 510

Delta R.T. 0.01 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

Instrument :

MSVOA_N

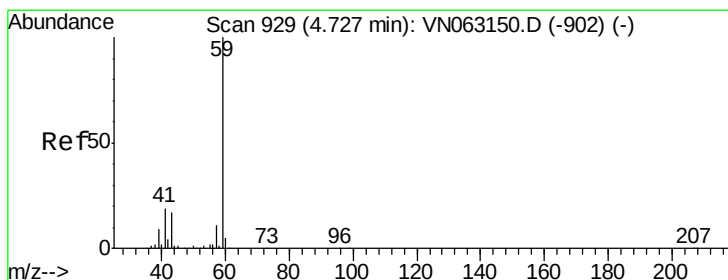
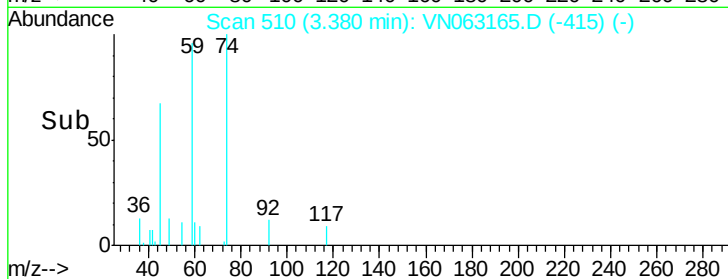
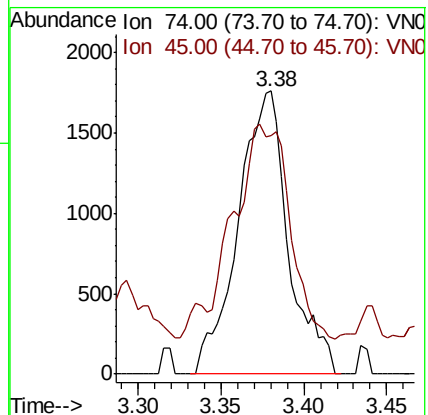
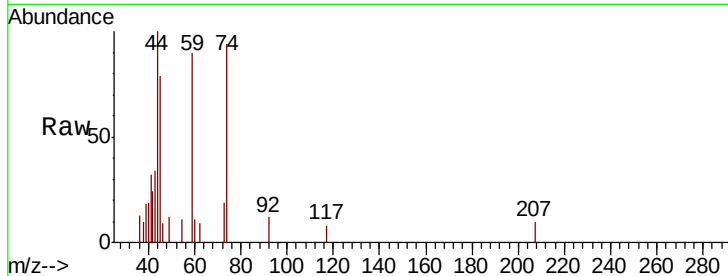
ClientSampleId :

Tot Ion: 74 Resp: 3723

Ion Ratio Lower Upper

74 100

45 82.5 49.5 148.5



#11

Tert butyl alcohol

Concen: 0.384 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063165.D

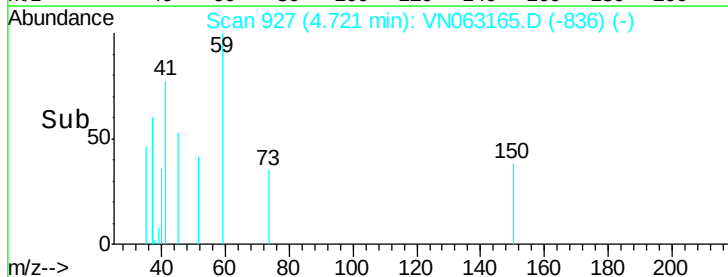
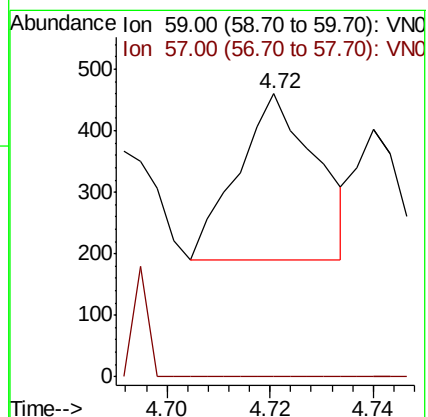
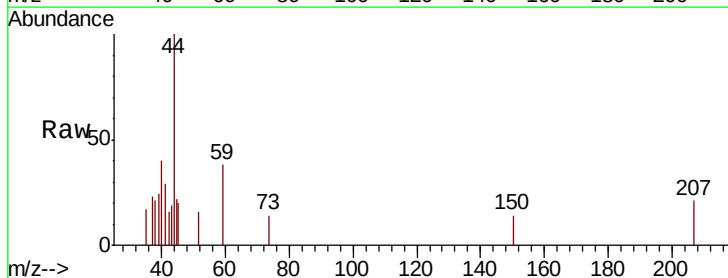
Acq: 1 Sep 2020 19:17

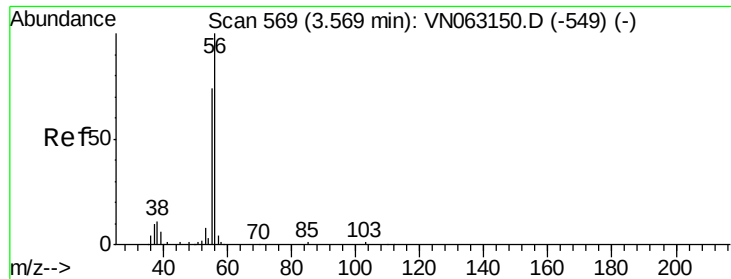
Tgt Ion: 59 Resp: 282

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#





#13

Acrolein

Concen: 15.896 ug/l

RT: 3.57 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

Instrument :

MSVOA_N

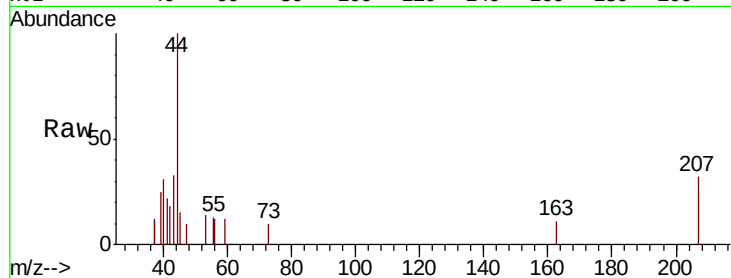
ClientSampled :

Tot Ion: 56 Resp: 38

Ion Ratio Lower Upper

56 100

55 731.6 55.4 83.0#

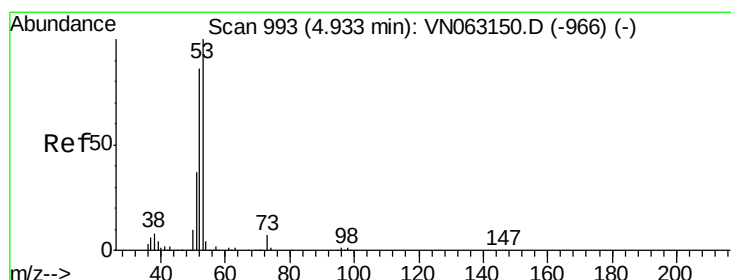
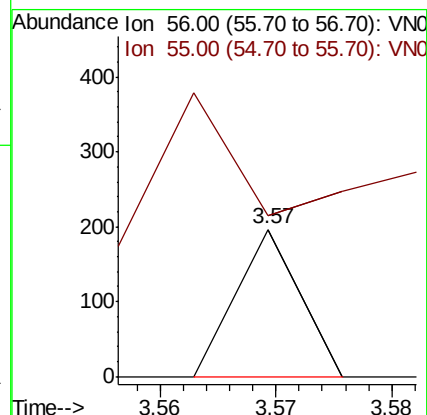
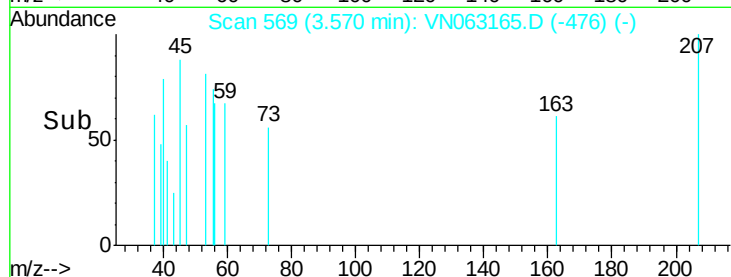


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.57

Time-->



#15

Acrylonitrile

Concen: 2.557 ug/l

RT: 4.93 min Scan# 992

Delta R.T. -0.00 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

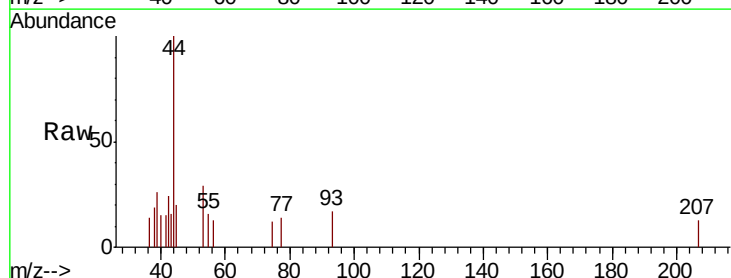
Tgt Ion: 53 Resp: 319

Ion Ratio Lower Upper

53 100

52 40.1 67.2 100.8#

51 45.1 30.2 45.4



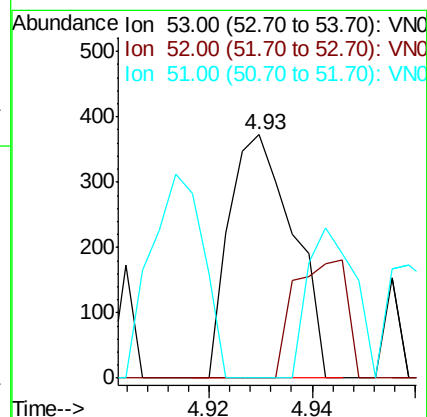
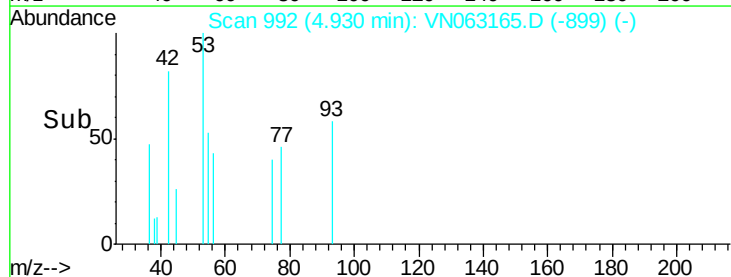
Abundance Ion 53.00 (52.70 to 53.70): VN0

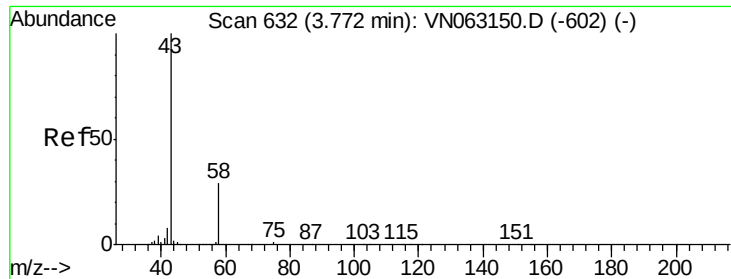
Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

4.93

Time-->

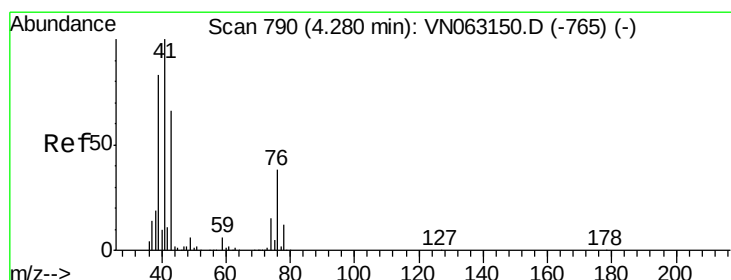
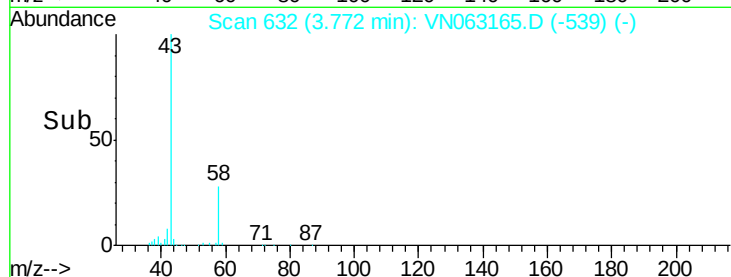
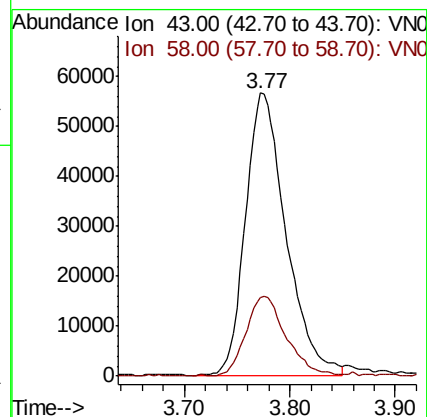
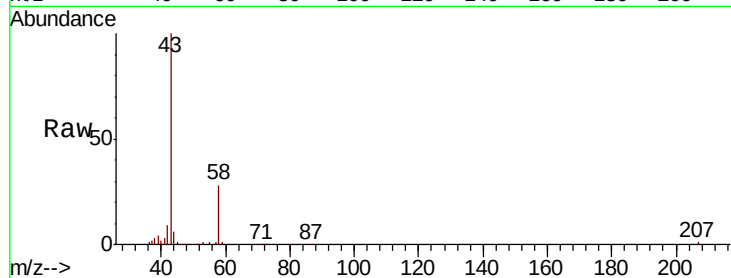




#16
Acetone
Concen: 89.713 ug/l
RT: 3.77 min Scan# 632
Delta R.T. 0.00 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

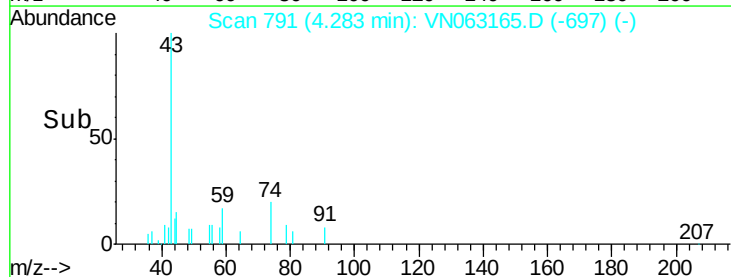
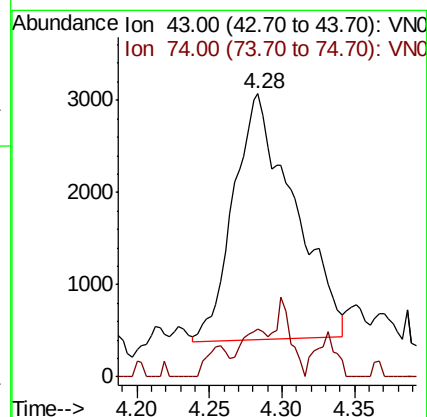
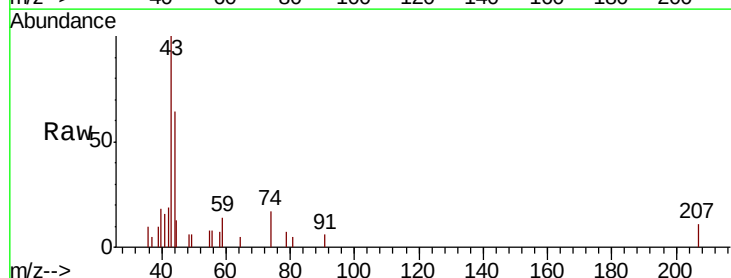
Instrument :
MSVOA_N
ClientSampleId :

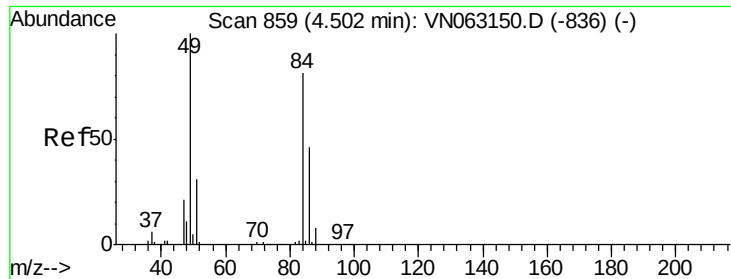
Tot Ion: 43 Resp: 152685
Ion Ratio Lower Upper
43 100
58 27.7 23.1 34.7



#18
Methyl Acetate
Concen: 1.758 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

Tgt Ion: 43 Resp: 7672
Ion Ratio Lower Upper
43 100
74 8.5 19.0 28.6#

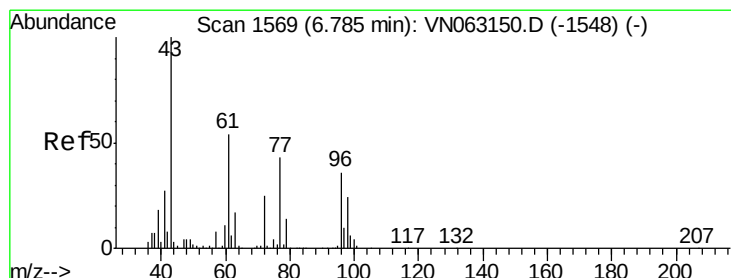
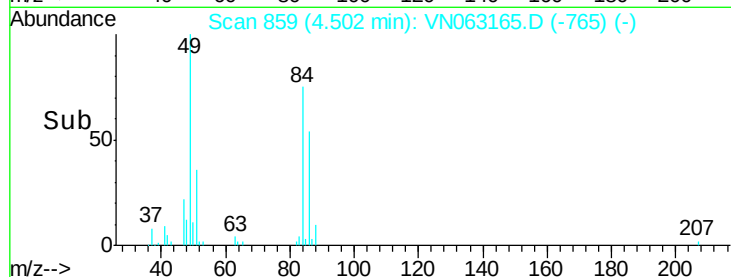
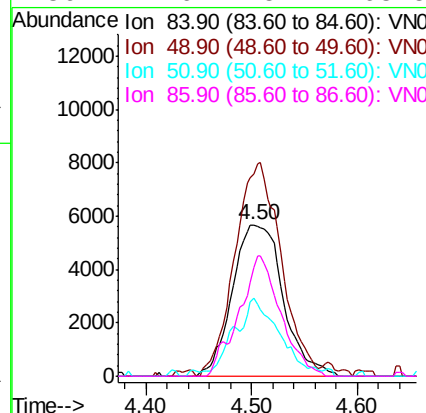
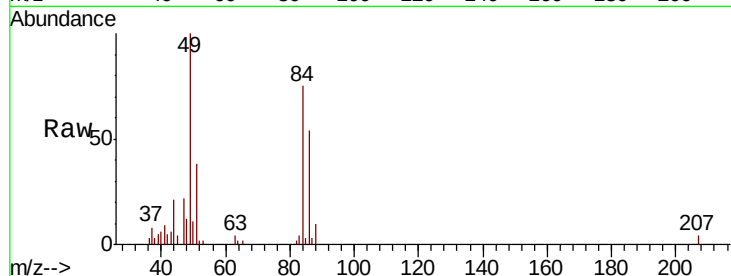




#20
Methvlene Chloride
Concen: 3.520 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

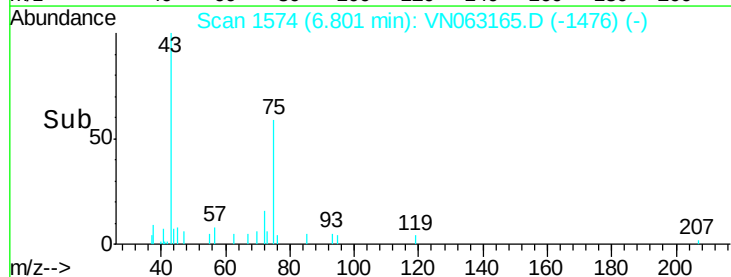
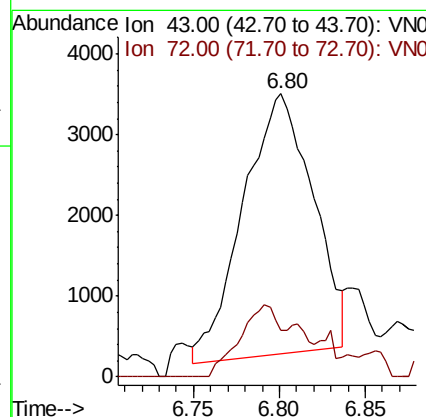
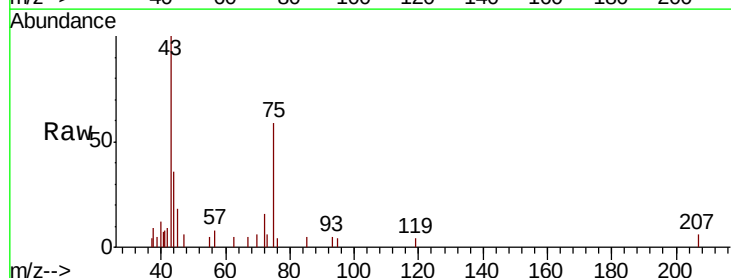
Instrument :
MSVOA_N
ClientSampled :

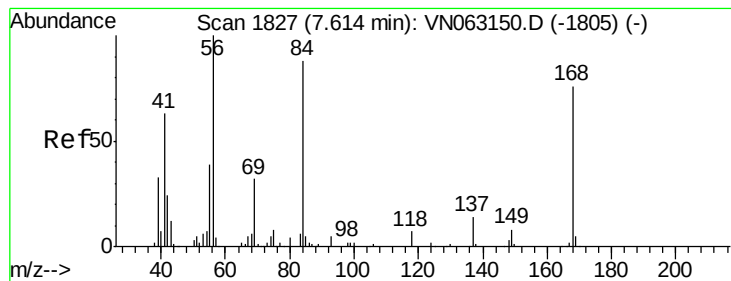
Tot Ion: 84 Resp: 19034
Ion Ratio Lower Upper
84 100
49 130.2 98.4 147.6
51 51.2 30.4 45.6#
86 71.6 45.7 68.5#



#25
2-Butanone
Concen: 3.452 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

Tgt Ion: 43 Resp: 9096
Ion Ratio Lower Upper
43 100
72 18.5 20.2 30.4#





#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

Instrument :
MSVOA_N
ClientSampled :

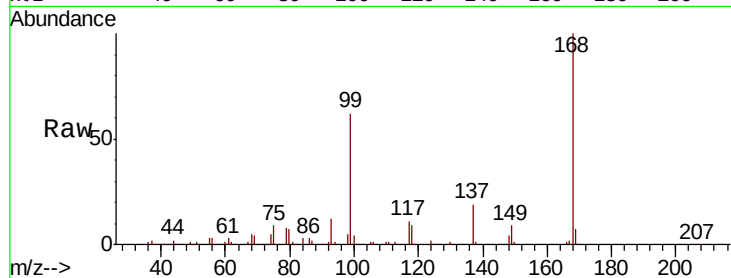
Tot Ion: 56 Resp: 11405

Ion Ratio Lower Upper

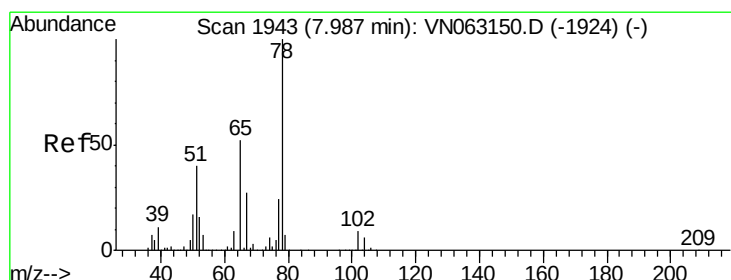
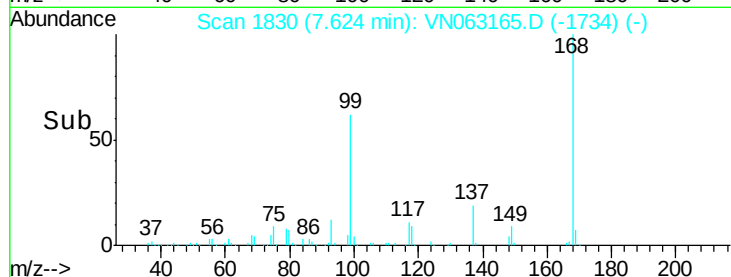
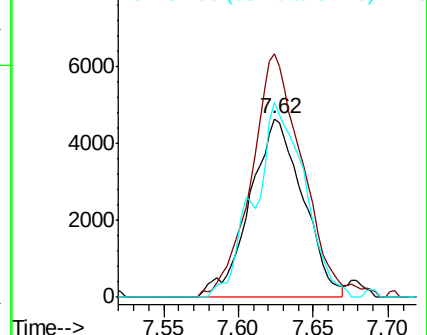
56 100

69 136.2 25.4 38.0#

84 108.7 70.2 105.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 47.856 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063165.D

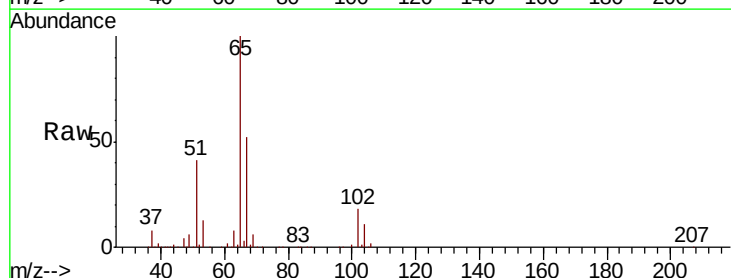
Acq: 1 Sep 2020 19:17

Tgt Ion: 65 Resp: 286509

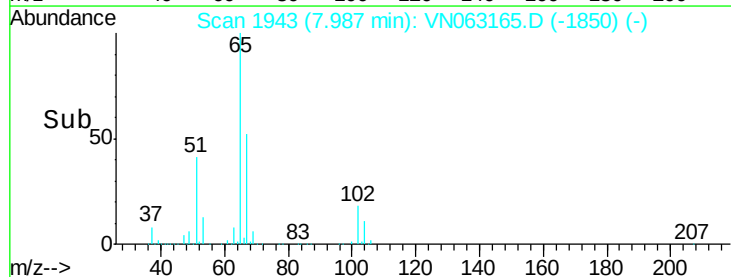
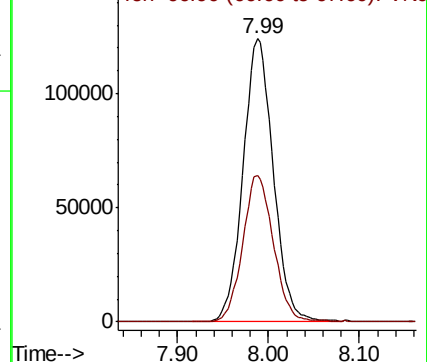
Ion Ratio Lower Upper

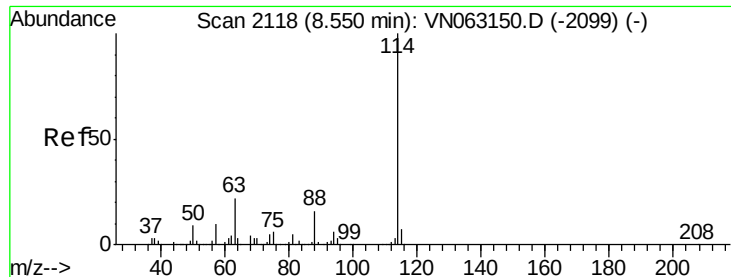
65 100

67 52.3 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

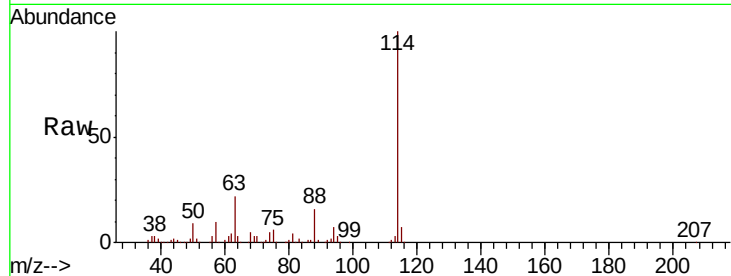




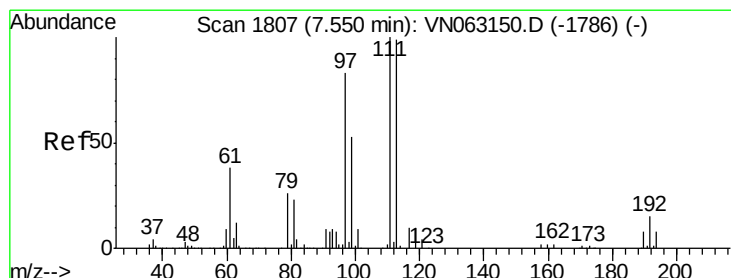
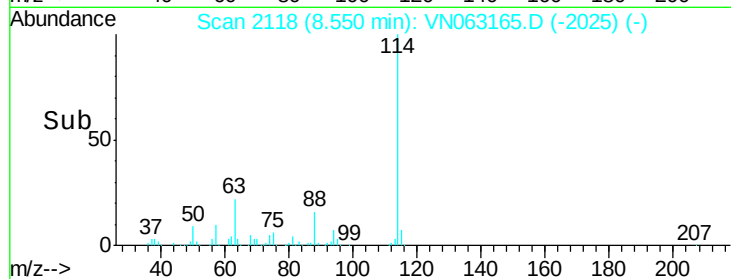
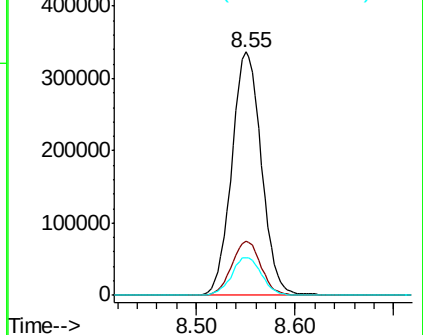
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 706242
Ion Ratio Lower Upper
114 100
63 22.1 0.0 43.0
88 15.7 0.0 31.6

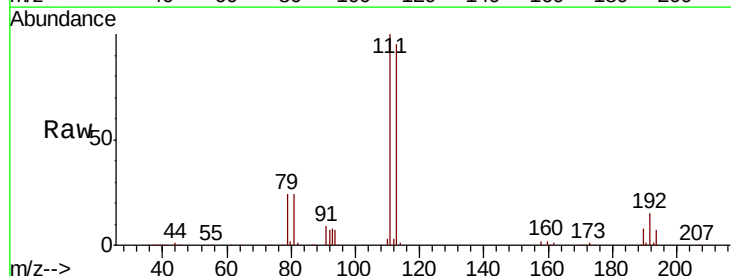


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

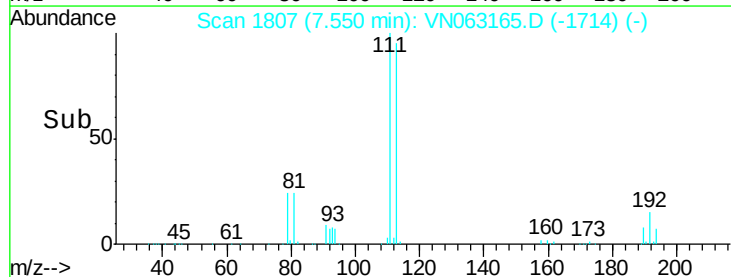
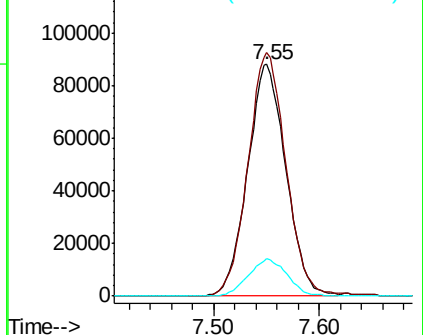


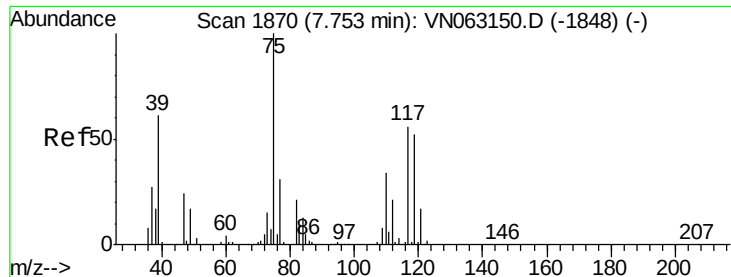
#35
Dibromofluoromethane
Concen: 49.157 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

Tgt Ion:113 Resp: 222724
Ion Ratio Lower Upper
113 100
111 104.7 80.7 121.1
192 16.3 12.6 19.0



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

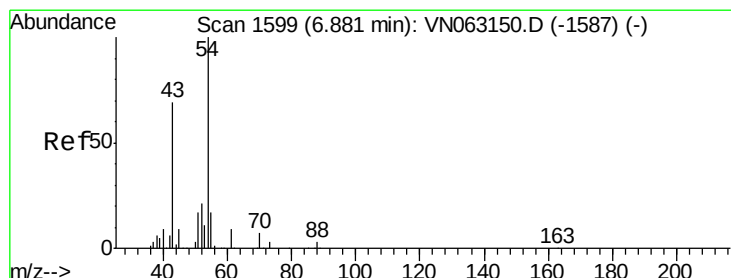
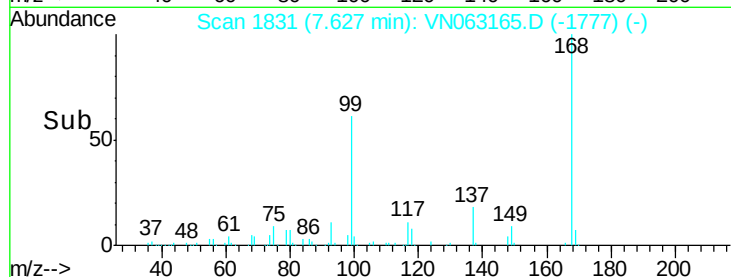
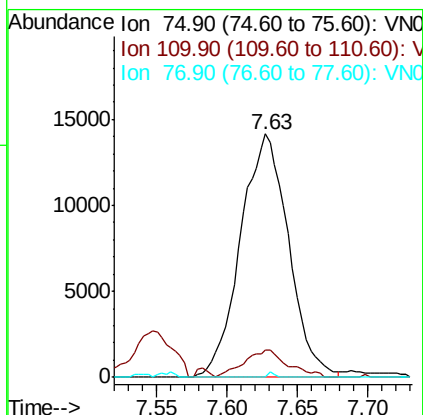
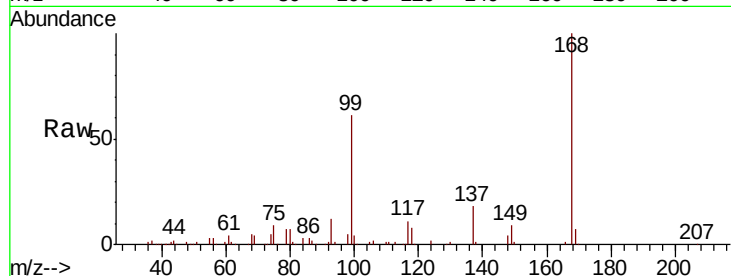




#36
 1,1-Dichloropropene
 Concen: 4.959 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063165.D
 Acq: 1 Sep 2020 19:17

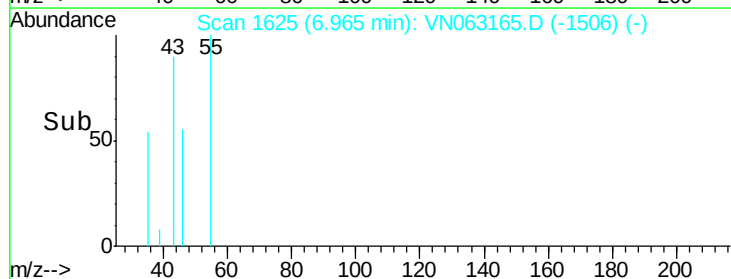
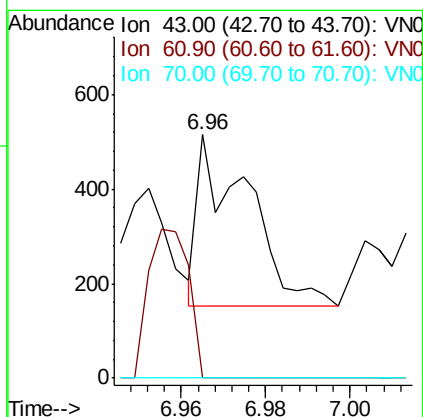
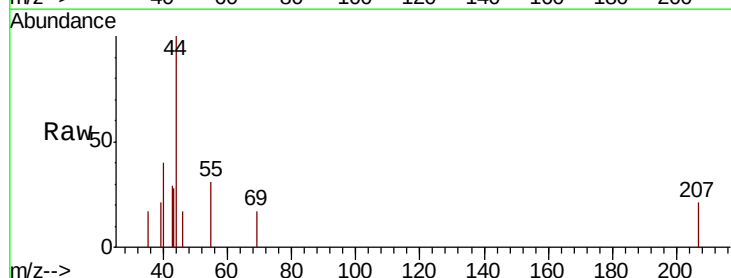
Instrument :
 MSVOA_N
 ClientSampled :

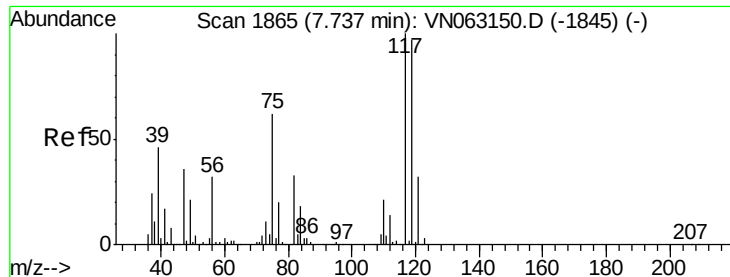
Tot Ion: 75 Resp: 33670
 Ion Ratio Lower Upper
 75 100
 110 10.2 16.6 49.8#
 77 0.3 25.4 38.2#



#37
 Ethyl Acetate
 Concen: 0.427 ug/l
 RT: 6.96 min Scan# 1625
 Delta R.T. 0.08 min
 Lab File: VN063165.D
 Acq: 1 Sep 2020 19:17

Tgt Ion: 43 Resp: 300
 Ion Ratio Lower Upper
 43 100
 61 70.3 10.2 15.4#
 70 0.0 3.0 4.6#





#38

Carbon Tetrachloride

Concen: 5.883 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

Instrument :

MSVOA_N

ClientSampled :

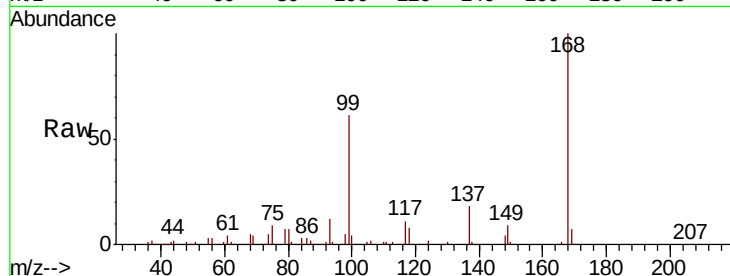
Tot Ion:117 Resp: 40508

Ion Ratio Lower Upper

117 100

119 3.6 77.2 115.8#

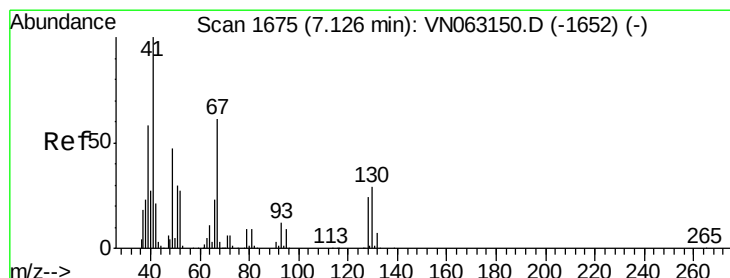
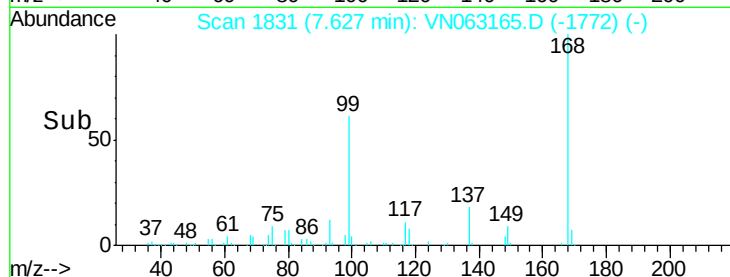
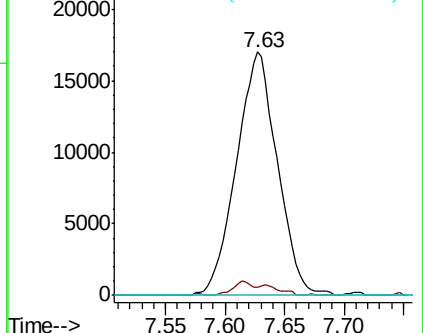
121 0.0 25.6 38.4#



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



#41

Methacrylonitrile

Concen: 0.215 ug/l

RT: 7.13 min Scan# 1677

Delta R.T. 0.01 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

Tgt Ion: 41 Resp: 615

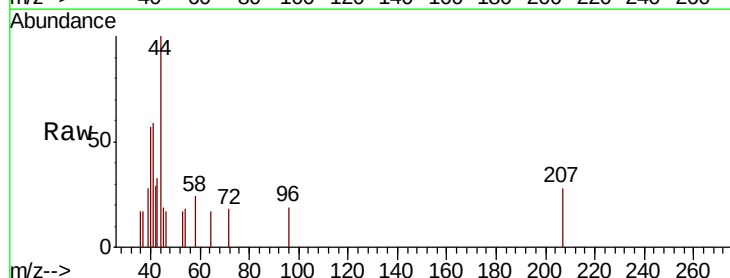
Ion Ratio Lower Upper

41 100

39 52.4 46.6 70.0

67 5.9 62.6 94.0#

52 0.0 28.0 42.0#

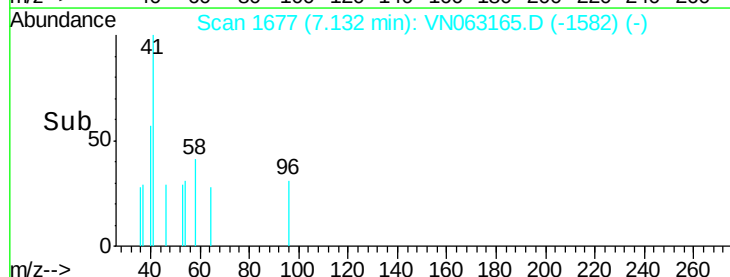
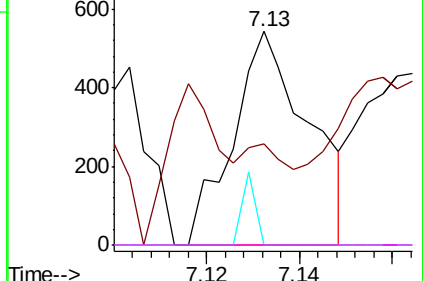


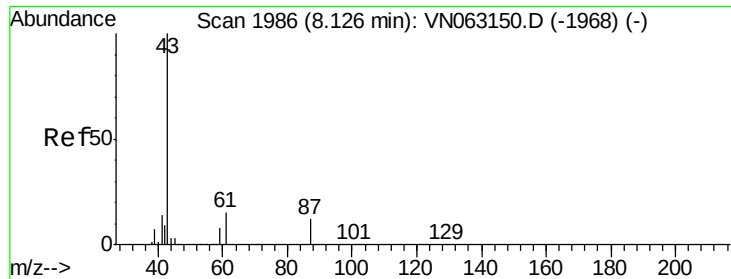
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 5.304 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

Instrument :

MSVOA_N

ClientSampleId :

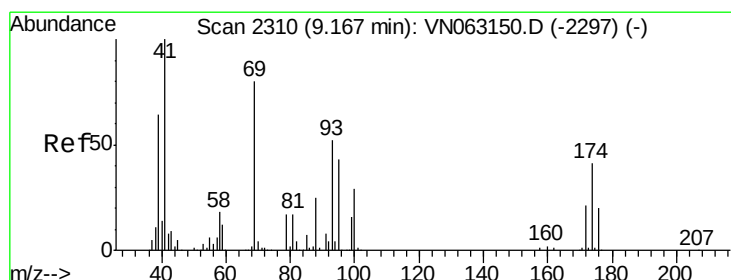
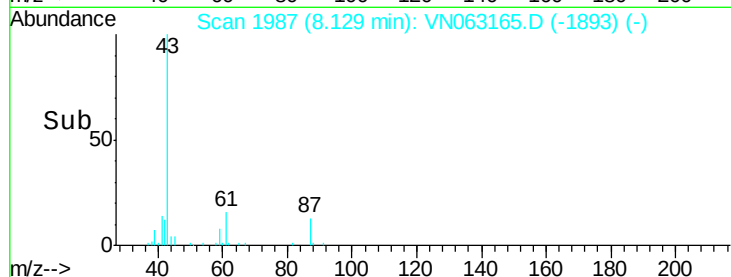
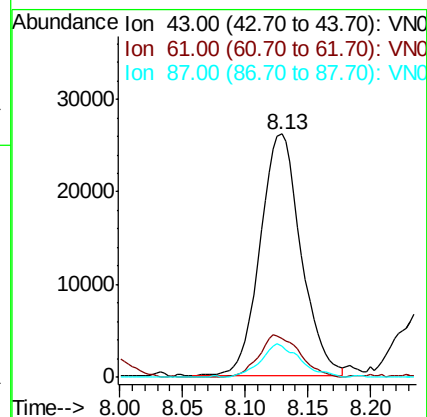
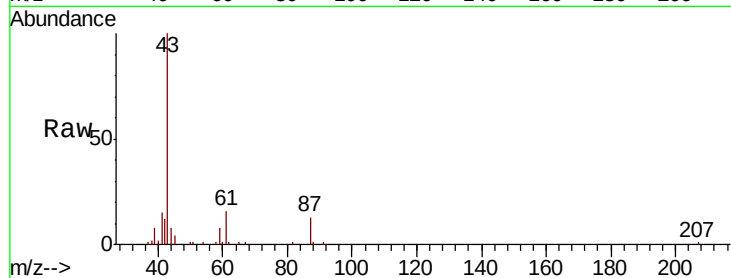
Tot Ion: 43 Resp: 58728

Ion Ratio Lower Upper

43 100

61 17.7 20.2 30.4#

87 13.6 9.8 14.6



#48

Methyl methacrylate

Concen: 0.348 ug/l

RT: 9.14 min Scan# 2301

Delta R.T. -0.03 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

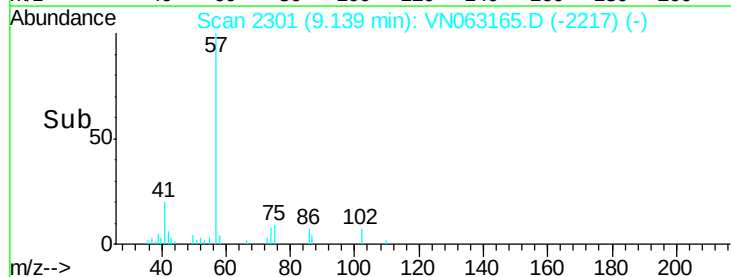
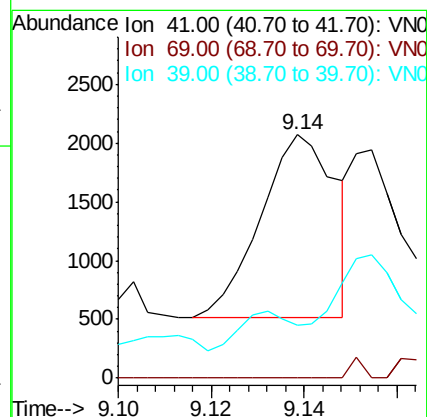
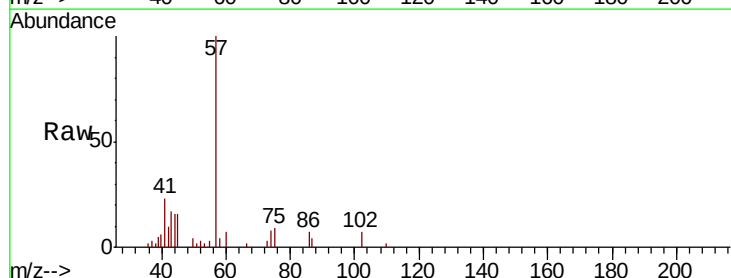
Tgt Ion: 41 Resp: 1738

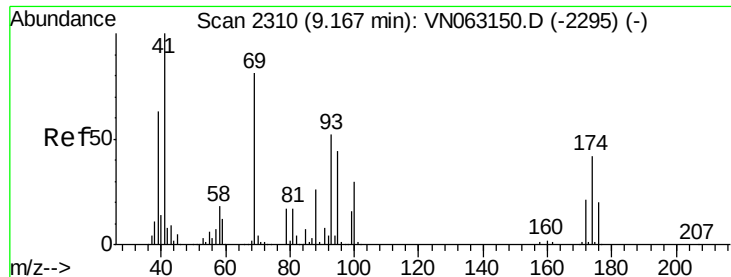
Ion Ratio Lower Upper

41 100

69 2.0 65.9 98.9#

39 56.2 52.0 78.0

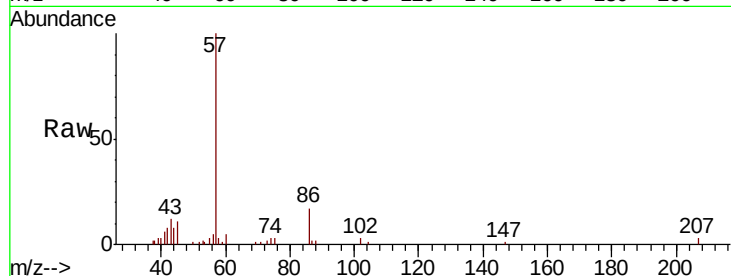




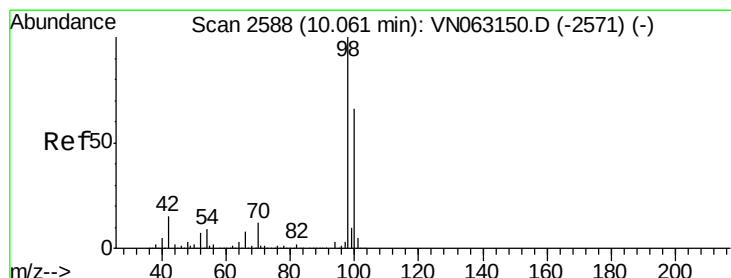
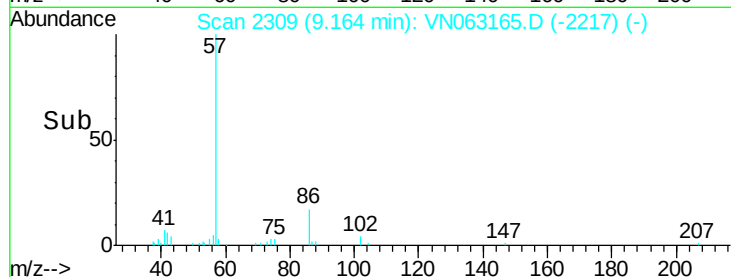
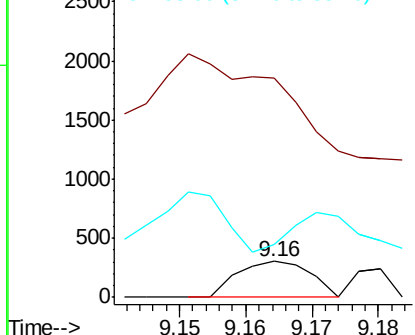
#49
1,4-Dioxane
Concen: 3.005 ug/l
RT: 9.16 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 88 Resp: 232
Ion Ratio Lower Upper
88 100
43 0.0 28.6 42.8#
58 397.4 53.2 79.8#

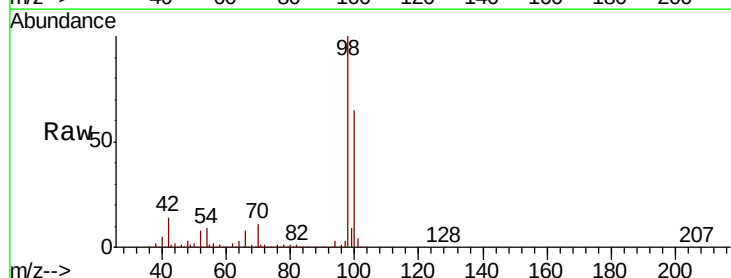


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

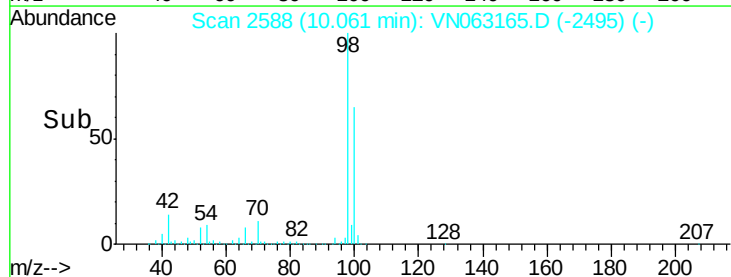
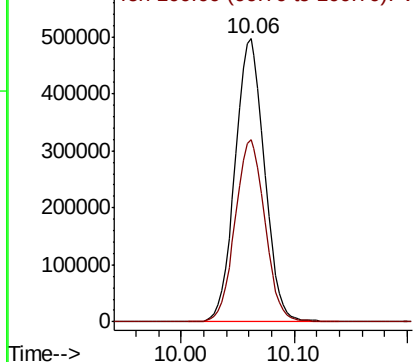


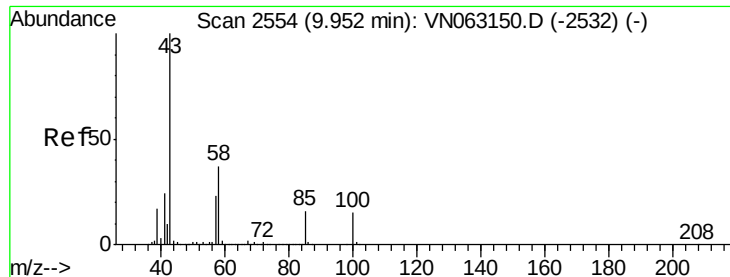
#50
Toluene-d8
Concen: 51.643 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

Tgt Ion: 98 Resp: 900633
Ion Ratio Lower Upper
98 100
100 65.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.209 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

Instrument :

MSVOA_N

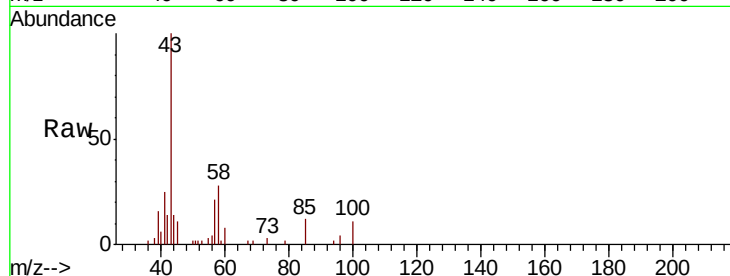
ClientSampled :

Tot Ion: 43 Resp: 13290

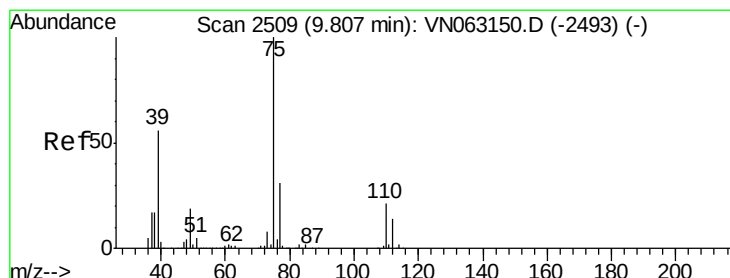
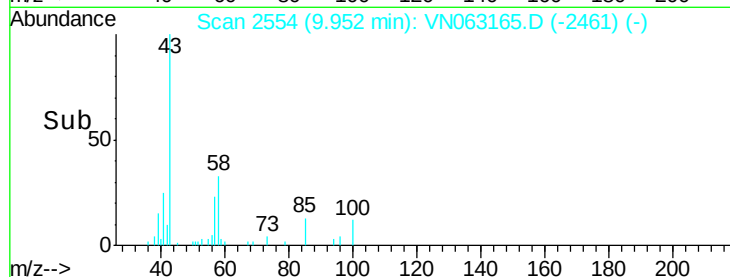
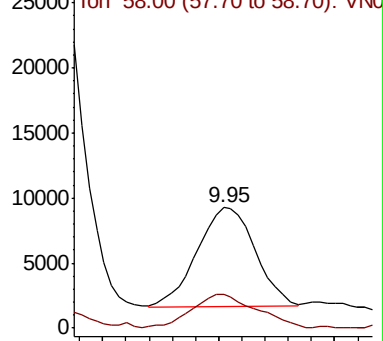
Ion Ratio Lower Upper

43 100

58 38.2 29.2 43.8



Abundance Ion 43.00 (42.70 to 43.70): VN063165.D (-2461) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.787 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

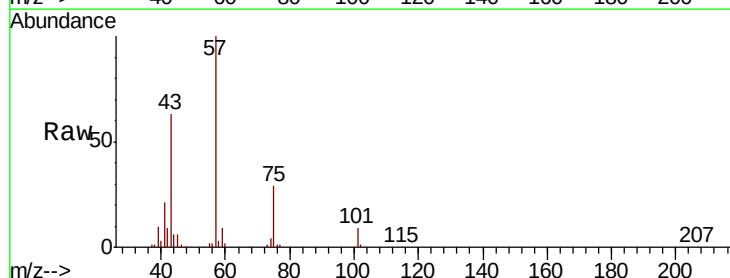
Tgt Ion: 75 Resp: 32628

Ion Ratio Lower Upper

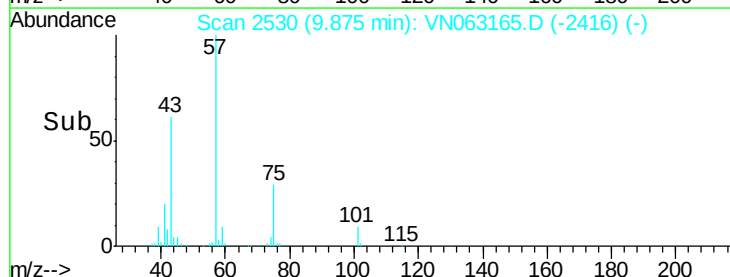
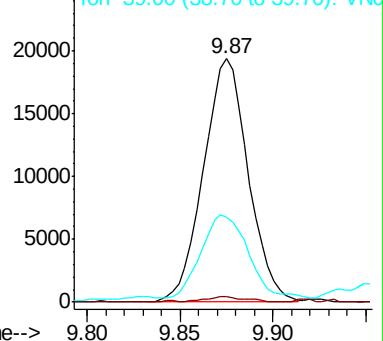
75 100

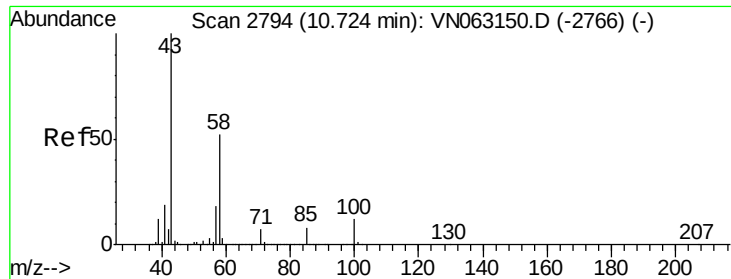
77 2.2 24.8 37.2#

39 33.0 45.0 67.6#



Abundance Ion 74.90 (74.60 to 75.60): VN063165.D (-2416) (-)

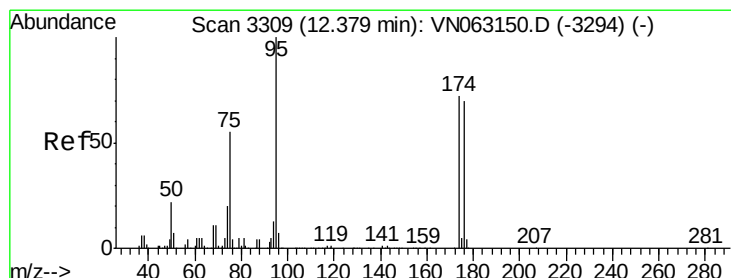
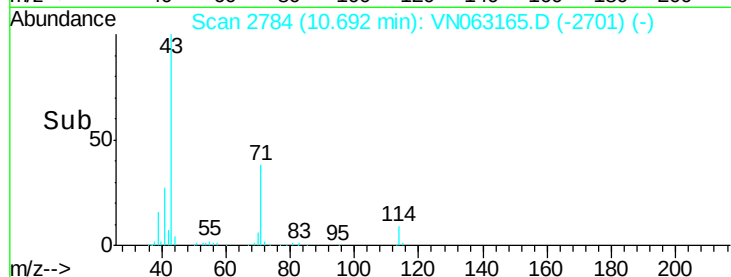
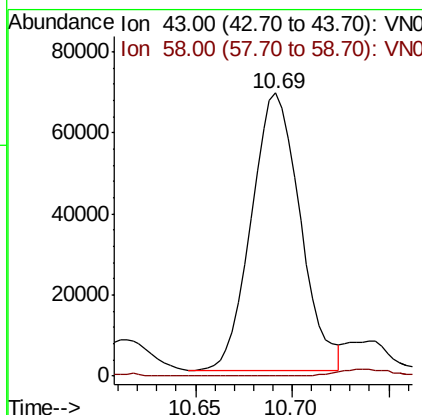
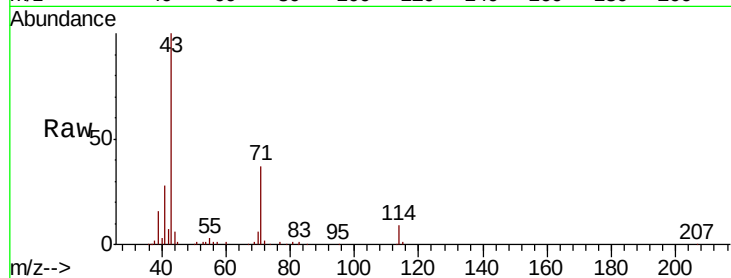




#59
2-Hexanone
Concen: 28.609 ug/l
RT: 10.69 min Scan# 2784
Delta R.T. -0.03 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

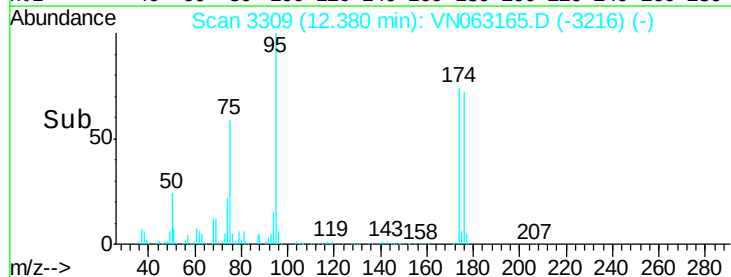
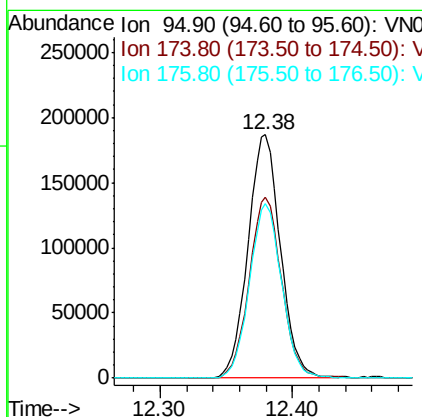
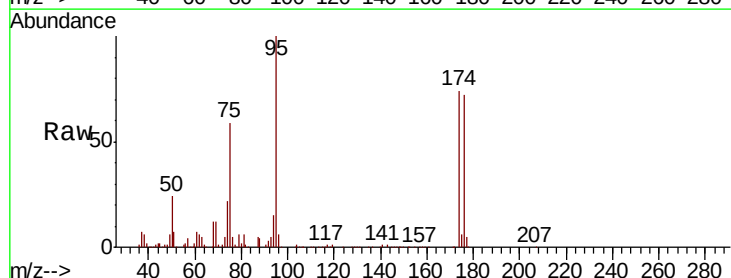
Instrument :
MSVOA_N
ClientSampled :

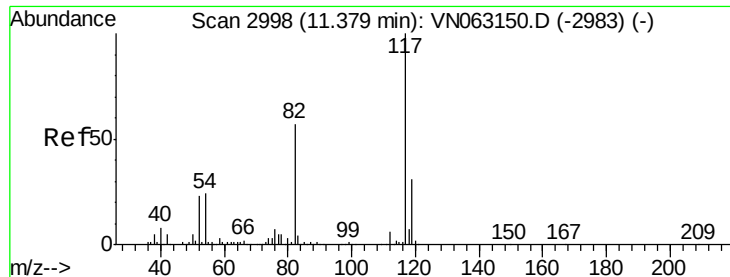
Tot Ion: 43 Resp: 120976
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 52.187 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.00 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

Tgt Ion: 95 Resp: 318361
Ion Ratio Lower Upper
95 100
174 74.1 0.0 143.8
176 71.2 0.0 138.4

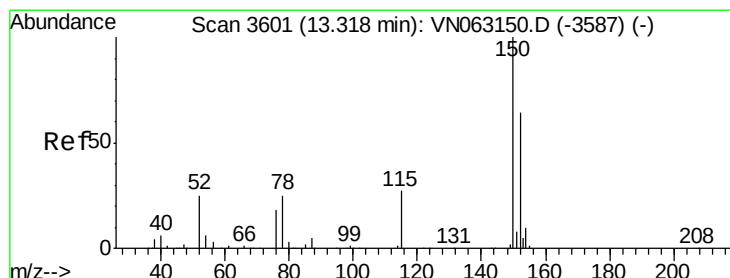
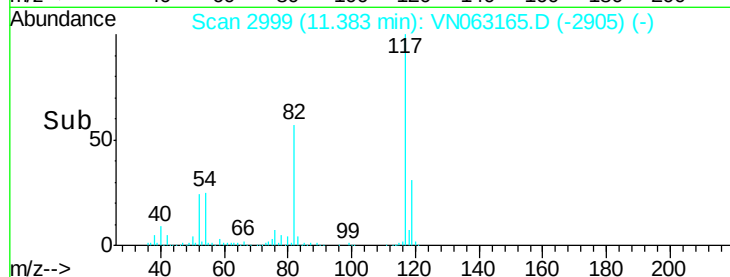
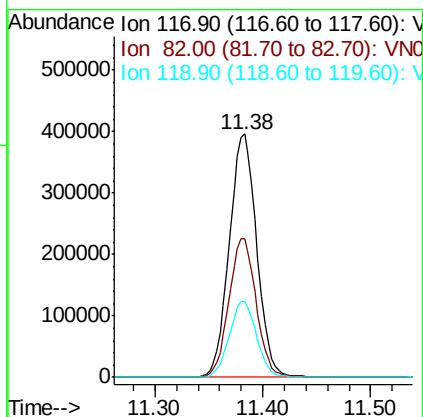
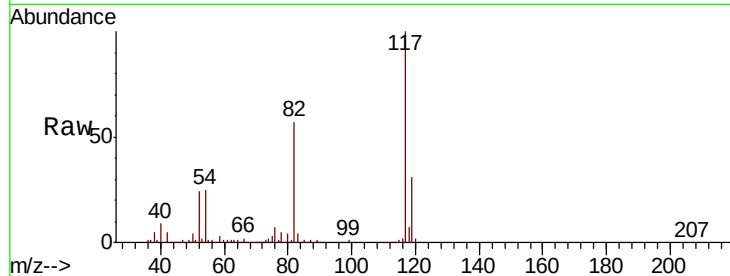




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2999
Delta R.T. 0.00 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

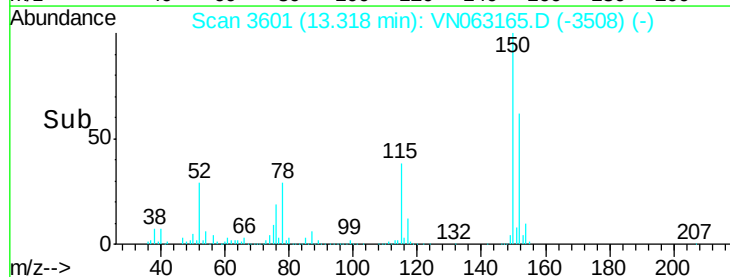
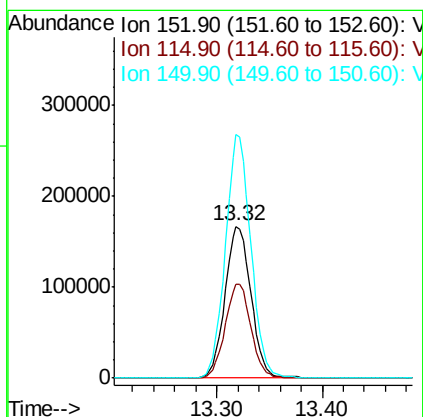
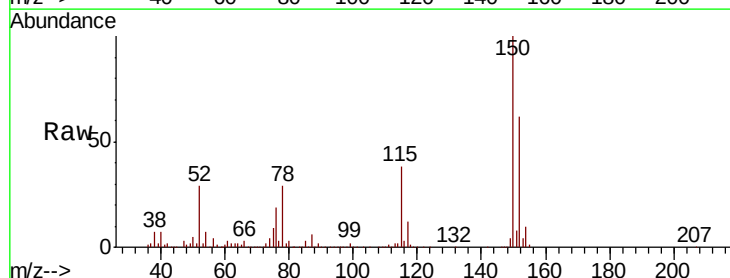
Instrument :
MSVOA_N
ClientSampled :

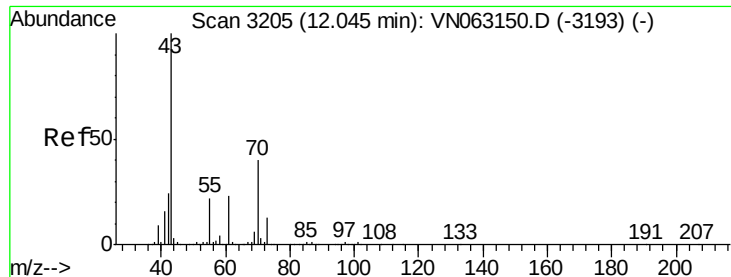
Tot Ion:117 Resp: 703612
Ion Ratio Lower Upper
117 100
82 56.7 45.4 68.0
119 31.2 24.6 37.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

Tgt Ion:152 Resp: 284488
Ion Ratio Lower Upper
152 100
115 61.5 32.0 96.2
150 156.5 0.0 353.0

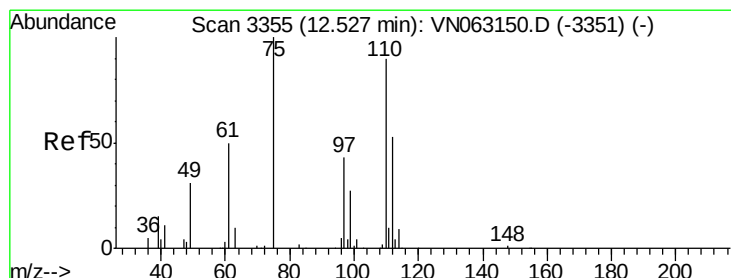
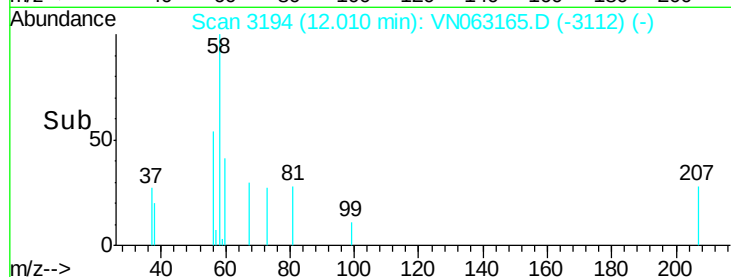
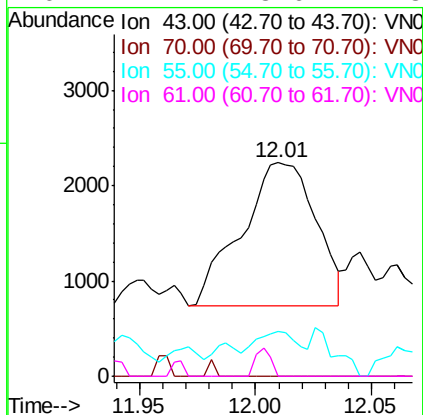
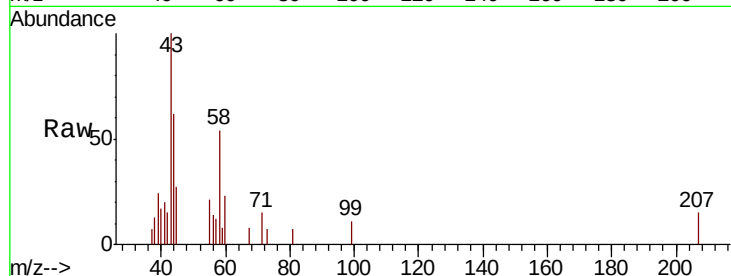




#74
N-amyl acetate
Concen: 0.372 ug/l
RT: 12.01 min Scan# 3194
Delta R.T. -0.04 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

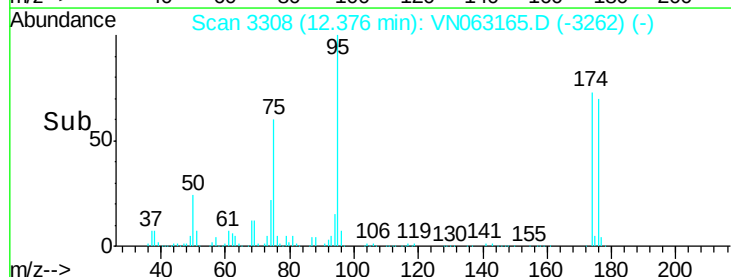
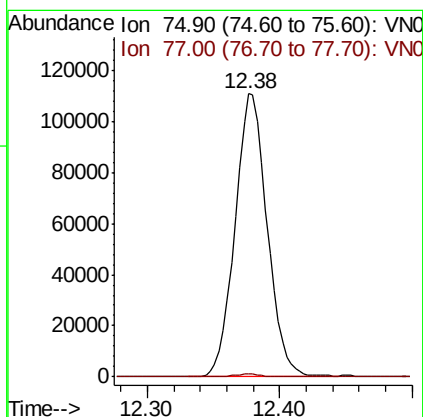
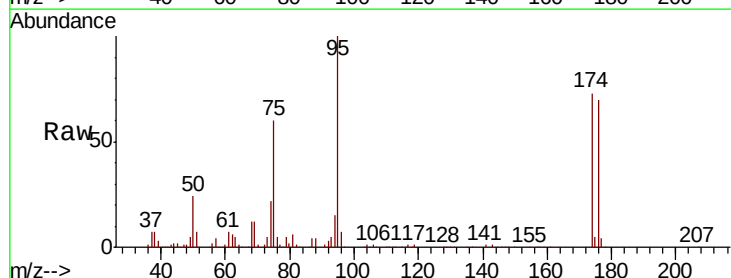
Instrument :
MSVOA_N
ClientSampleId :

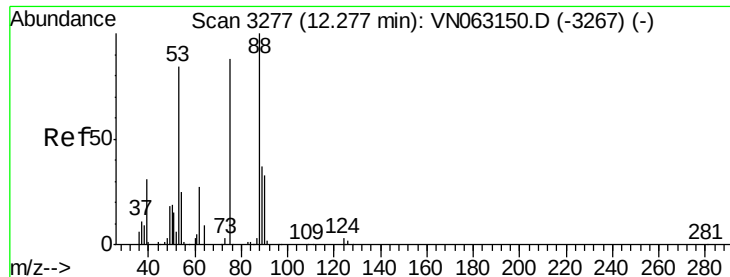
Tot Ion: 43 Resp: 3365
Ion Ratio Lower Upper
43 100
70 0.0 32.1 48.1#
55 10.3 17.4 26.0#
61 4.2 18.6 27.8#



#76
1,2,3-Trichloropropane
Concen: 33.435 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063165.D
Acq: 1 Sep 2020 19:17

Tgt Ion: 75 Resp: 186889
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 80.812 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063165.D

Acq: 1 Sep 2020 19:17

Instrument :

MSVOA_N

ClientSampleId :

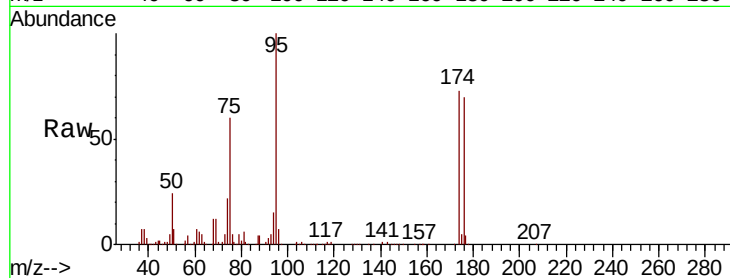
Tot Ion: 75 Resp: 186889

Ion Ratio Lower Upper

75 100

53 0.1 78.7 118.1#

89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

