

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063845.D
 Acq On : 3 Oct 2020 1:56
 Operator : JC/MD
 Sample : L3872-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-03-093020

Quant Time: Oct 05 04:23:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	204704	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	395030	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	407857	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	163178	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	184797	54.64	ug/l	0.00
Spiked Amount			Recovery	=	109.28%	
35) Dibromofluoromethane	7.55	113	132962	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
50) Toluene-d8	10.06	98	502317	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
62) 4-Bromofluorobenzene	12.38	95	196411	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	

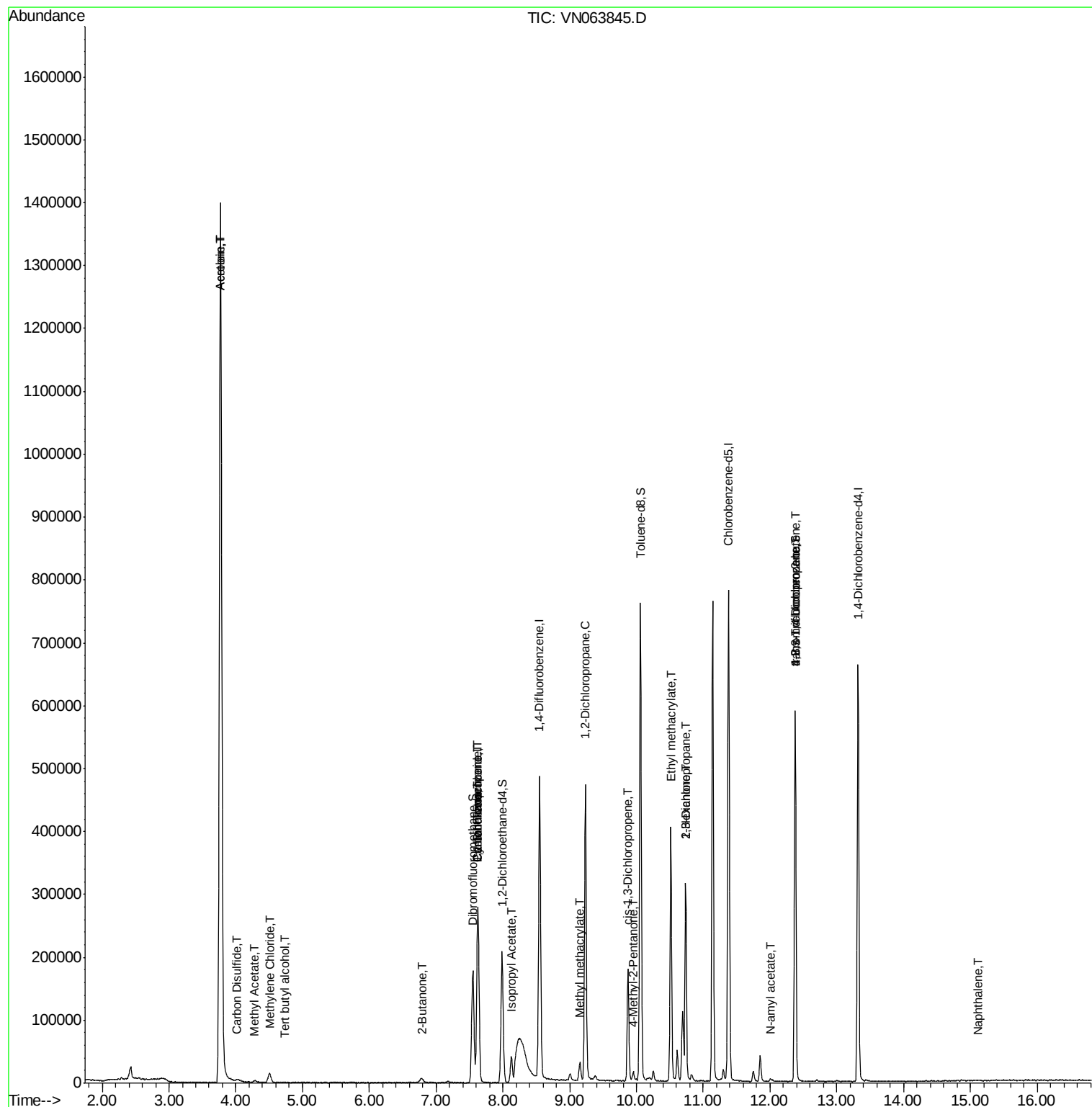
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	182	0.487	ug/l #	71
13) Acrolein	3.76	56	135	0.589	ug/l #	14
16) Acetone	3.77	43	2354333	2261.513	ug/l	98
17) Carbon Disulfide	4.01	76	545	0.797	ug/l #	76
18) Methyl Acetate	4.27	43	1234	0.457	ug/l #	71
20) Methylene Chloride	4.50	84	4815	2.113	ug/l	94
25) 2-Butanone	6.80	43	2896	1.962	ug/l	91
31) Cyclohexane	7.62	56	5387	1.372	ug/l #	21
36) 1,1-Dichloropropene	7.63	75	19092	4.771	ug/l #	51
38) Carbon Tetrachloride	7.62	117	22892	5.101	ug/l #	16
43) Isopropyl Acetate	8.13	43	48954	7.464	ug/l	98
45) 1,2-Dichloropropane	9.24	63	646	0.209	ug/l #	44
48) Methyl methacrylate	9.14	41	4831	1.491	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	8990	2.336	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	26666	5.419	ug/l #	72
56) Ethyl methacrylate	10.52	69	2501	0.622	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3264	0.680	ug/l #	43
59) 2-Hexanone	10.74	43	48968	17.127	ug/l #	57
74) N-amyl acetate	12.01	43	3680	2.852	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	112066	31.155	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	112066	89.730	ug/l #	6
95) Naphthalene	15.11	128	166	1.943	ug/l #	69

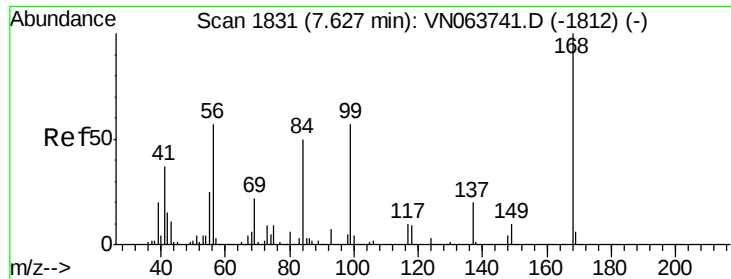
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN063845.D

Acq: 3 Oct 2020 1:56

Instrument :

MSVOA_N

ClientSampleId :

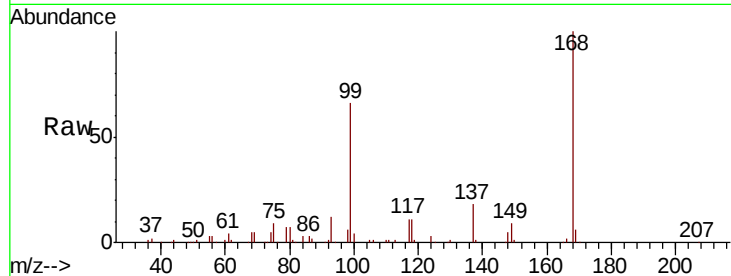
BU-03-093020

Tot Ion:168 Resp: 204704

Ion Ratio Lower Upper

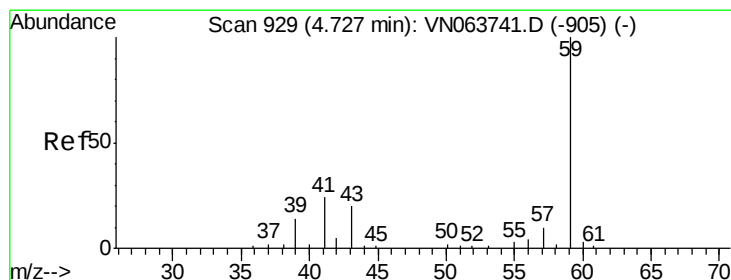
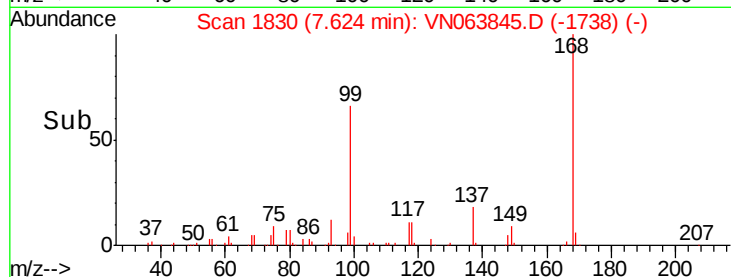
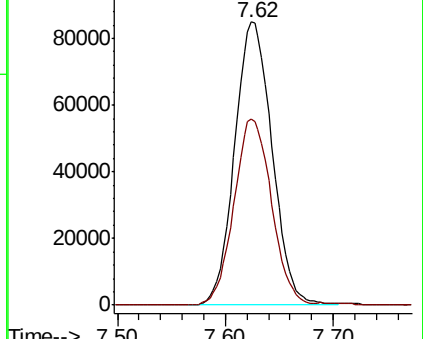
168 100

99 65.9 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.487 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.01 min

Lab File: VN063845.D

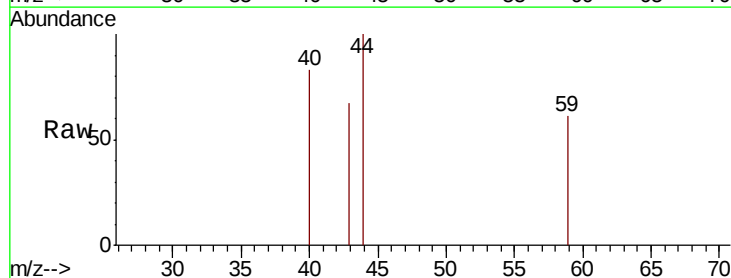
Acq: 3 Oct 2020 1:56

Tgt Ion: 59 Resp: 182

Ion Ratio Lower Upper

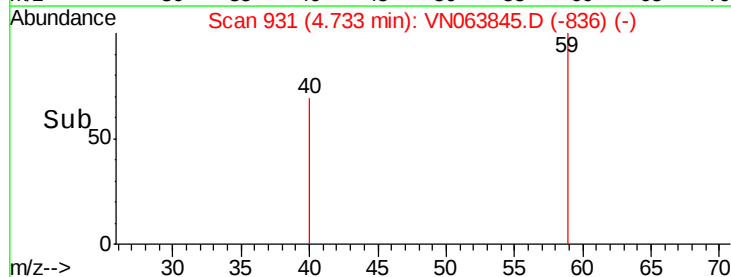
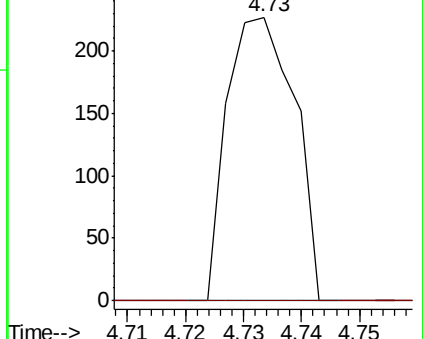
59 100

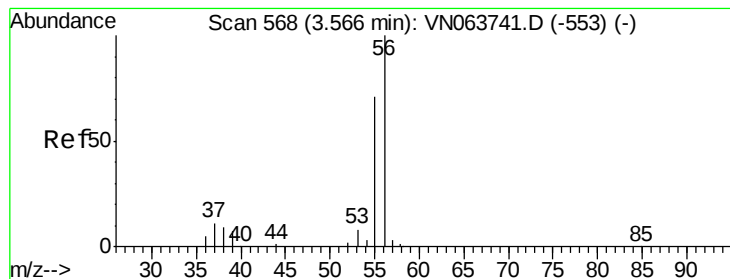
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 0.589 ug/l

RT: 3.76 min Scan# 627

Delta R.T. 0.19 min

Lab File: VN063845.D

Acq: 3 Oct 2020 1:56

Instrument :

MSVOA_N

ClientSampled :

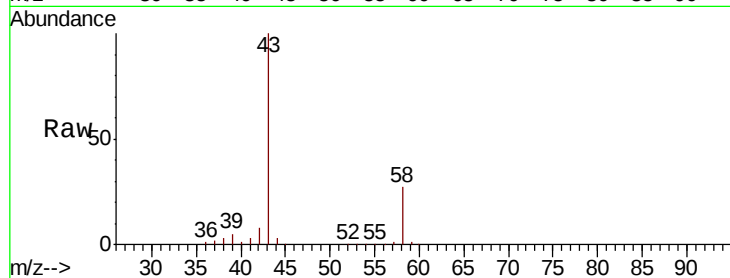
BU-03-093020

Tot Ion: 56 Resp: 135

Ion Ratio Lower Upper

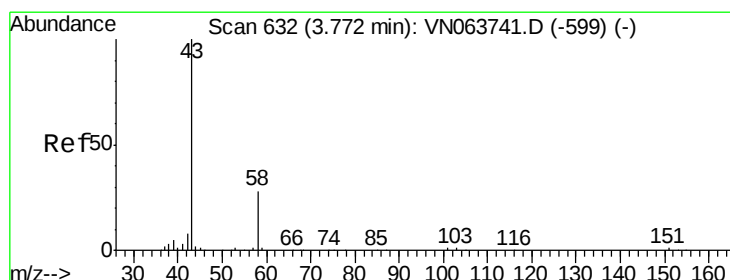
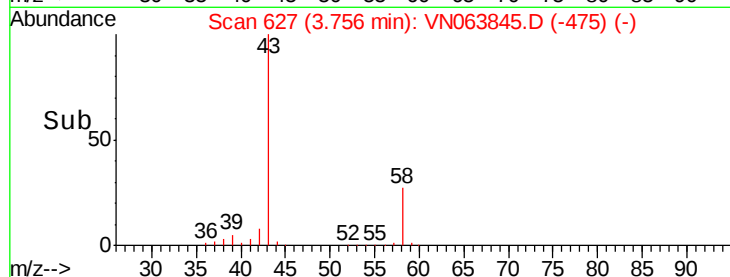
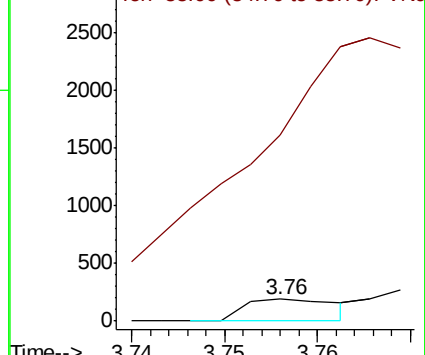
56 100

55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 2261.513 ug/l

RT: 3.77 min Scan# 632

Delta R.T. 0.00 min

Lab File: VN063845.D

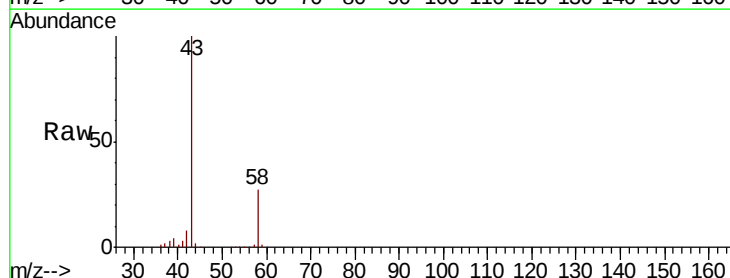
Acq: 3 Oct 2020 1:56

Tgt Ion: 43 Resp: 2354333

Ion Ratio Lower Upper

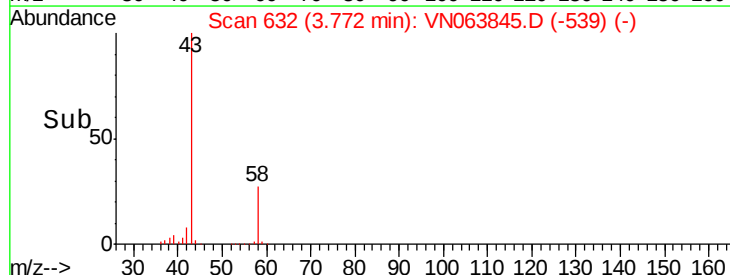
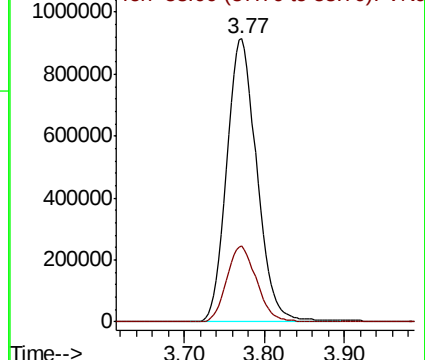
43 100

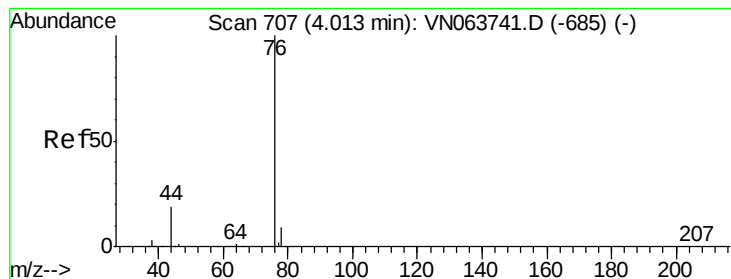
58 26.6 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.797 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN063845.D

Acq: 3 Oct 2020 1:56

Instrument :

MSVOA_N

ClientSampleId :

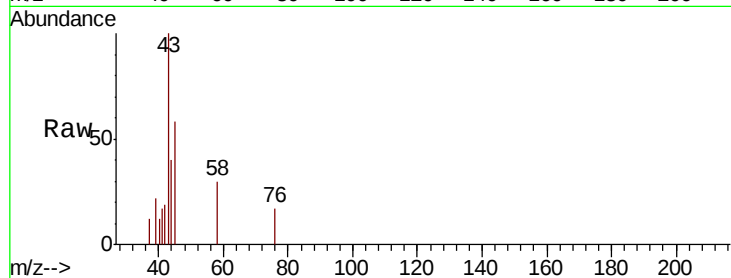
BU-03-093020

Tot Ion: 76 Resp: 545

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.01

300

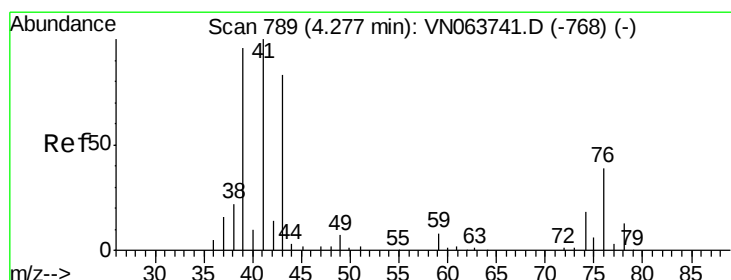
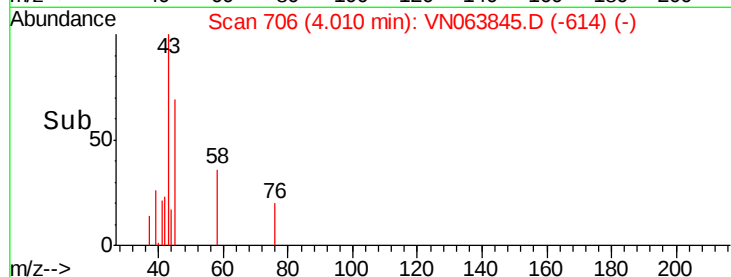
200

100

0

3.98 4.00 4.02 4.04

Time-->



#18

Methyl Acetate

Concen: 0.457 ug/l

RT: 4.27 min Scan# 788

Delta R.T. -0.00 min

Lab File: VN063845.D

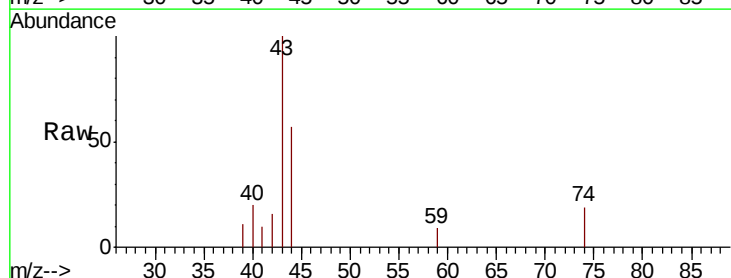
Acq: 3 Oct 2020 1:56

Tgt Ion: 43 Resp: 1234

Ion Ratio Lower Upper

43 100

74 35.7 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.27

2000

1500

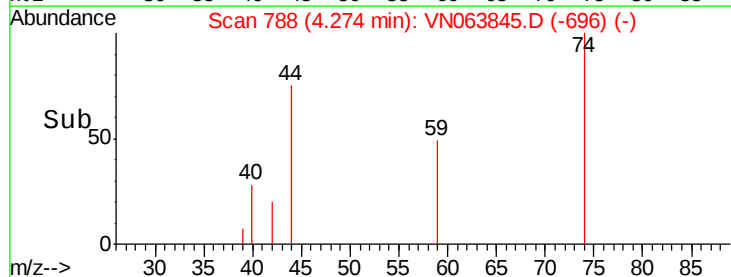
1000

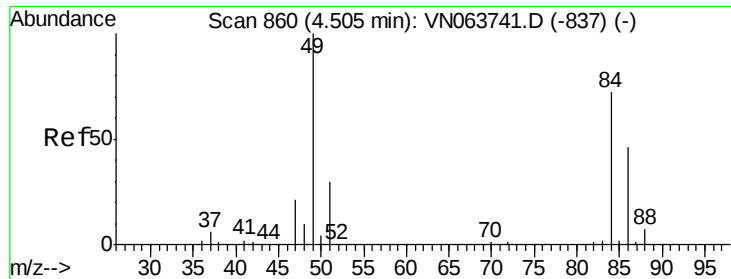
500

0

4.24 4.26 4.28

Time-->

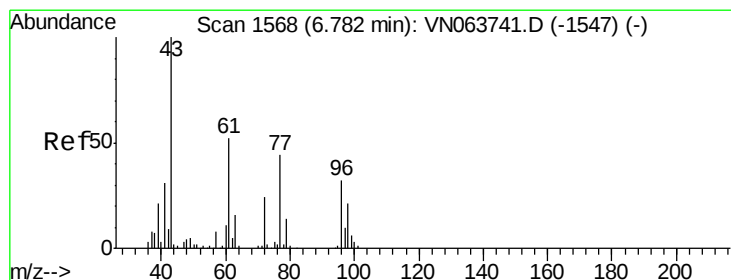
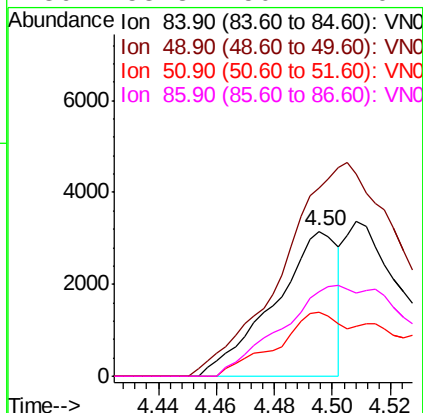
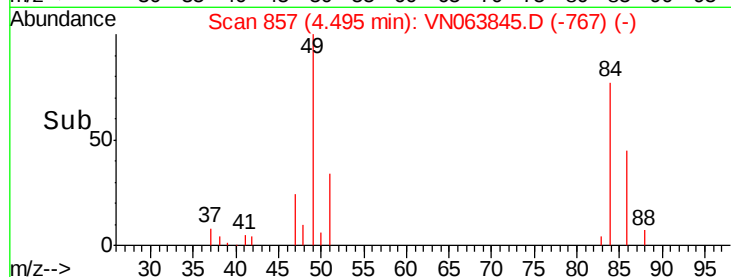
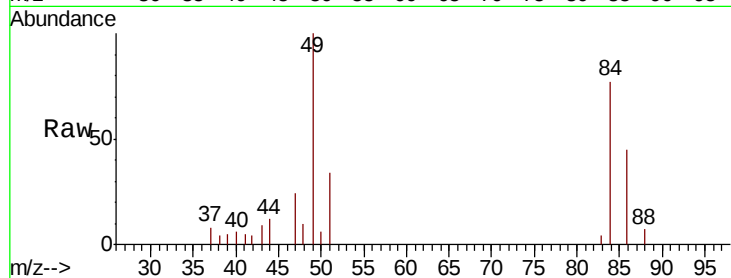




#20
Methvlene Chloride
Concen: 2.113 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

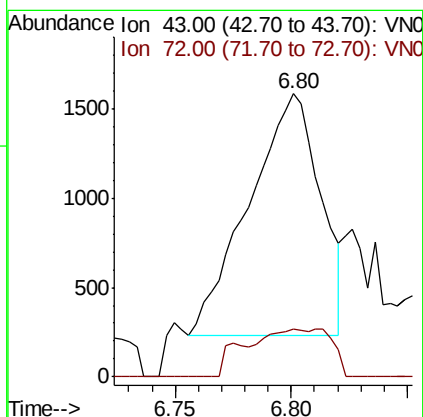
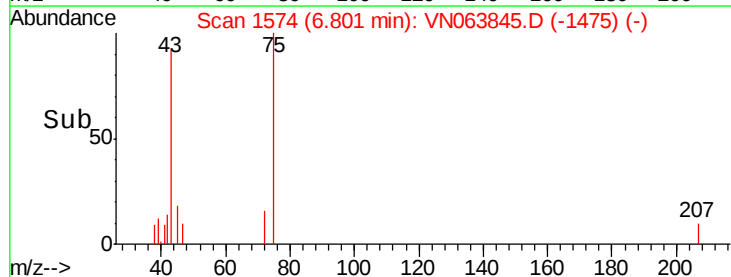
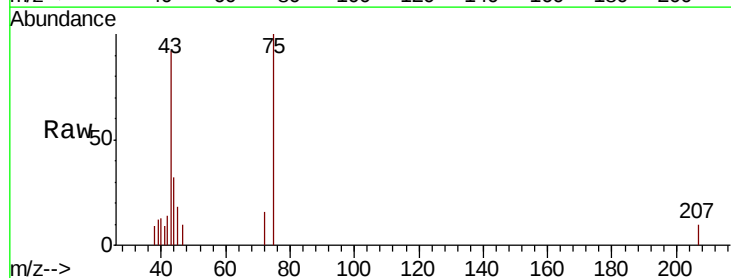
Instrument :
MSVOA_N
ClientSampleId :
BU-03-093020

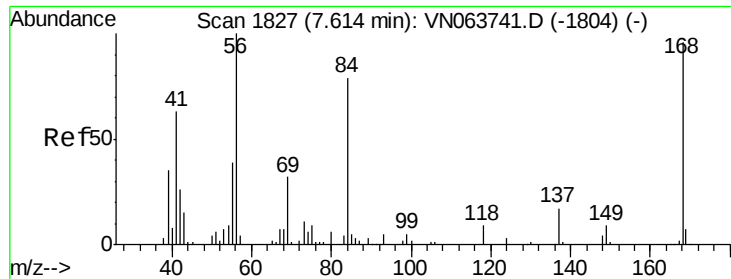
Tot Ion: 84	Resp: 4815
Ion Ratio	Lower Upper
84 100	
49 130.2	110.4 165.6
51 44.3	33.3 49.9
86 58.3	50.7 76.1



#25
2-Butanone
Concen: 1.962 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

Tgt Ion: 43	Resp: 2896
Ion Ratio	Lower Upper
43 100	
72 19.7	19.3 28.9

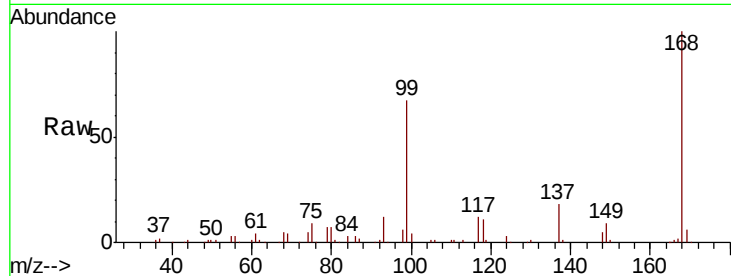




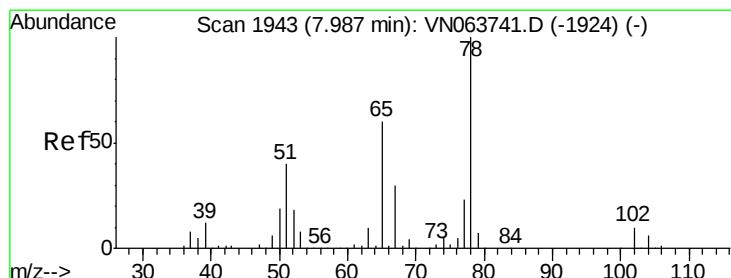
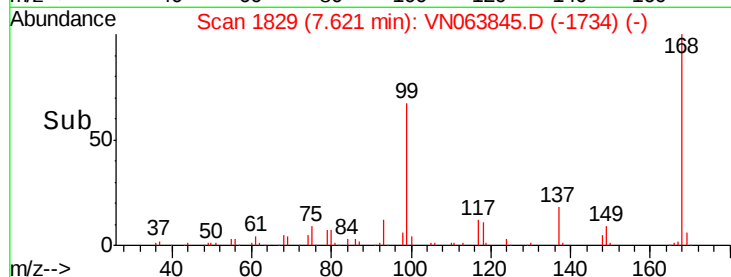
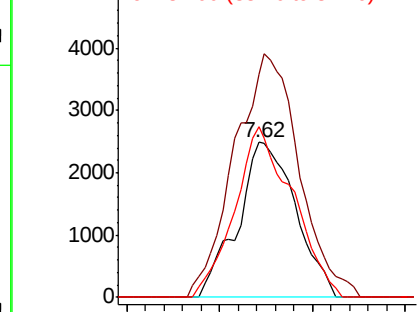
#31
Cyclohexane
Concen: 1.372 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

Instrument :
MSVOA_N
ClientSampleId :
BU-03-093020

Tot Ion: 56 Resp: 5387
Ion Ratio Lower Upper
56 100
69 136.1 25.4 38.2#
84 109.7 63.3 94.9#

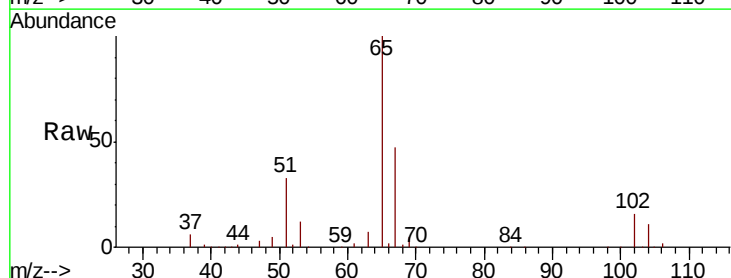


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

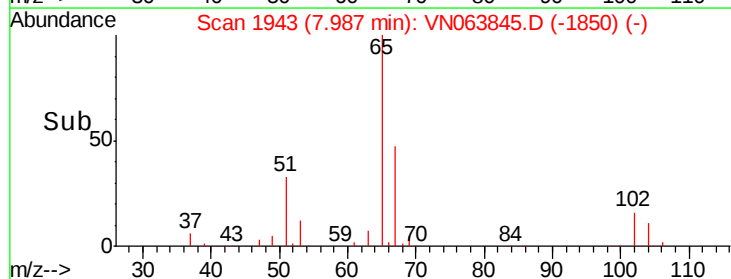
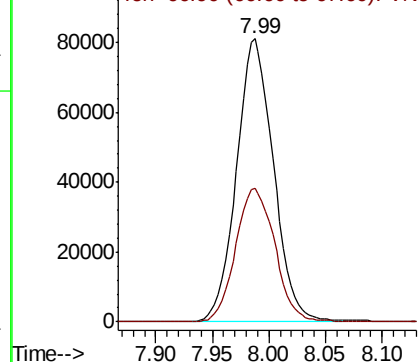


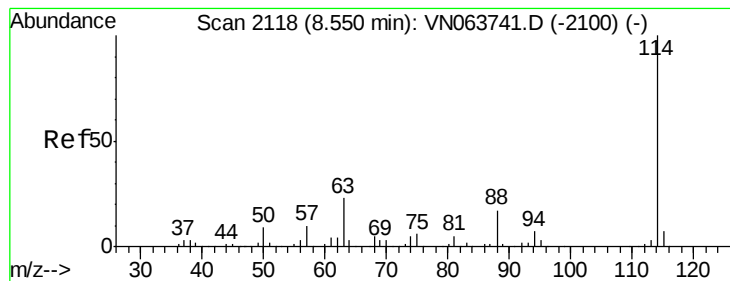
#33
1,2-Dichloroethane-d4
Concen: 54.644 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

Tgt Ion: 65 Resp: 184797
Ion Ratio Lower Upper
65 100
67 50.0 0.0 99.6



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: VN063845.D

Acq: 3 Oct 2020 1:56

Instrument :

MSVOA_N

ClientSampleId :

BU-03-093020

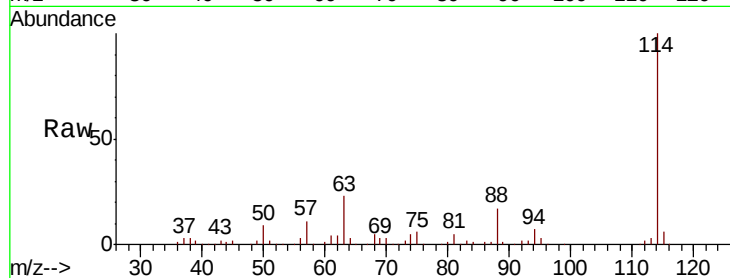
Tot Ion:114 Resp: 395030

Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.0

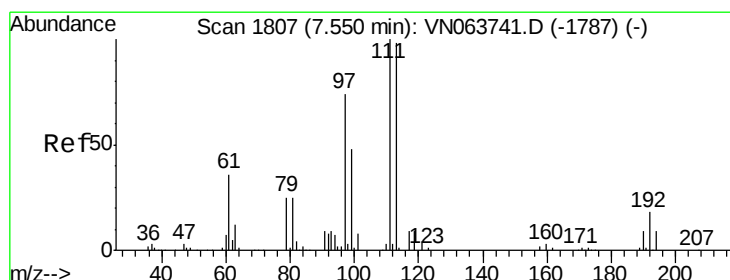
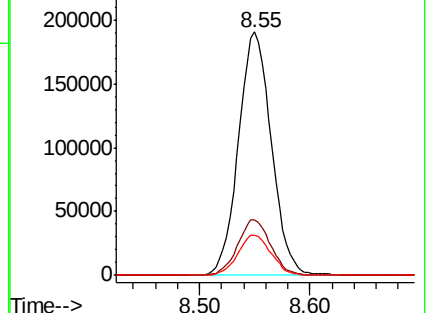
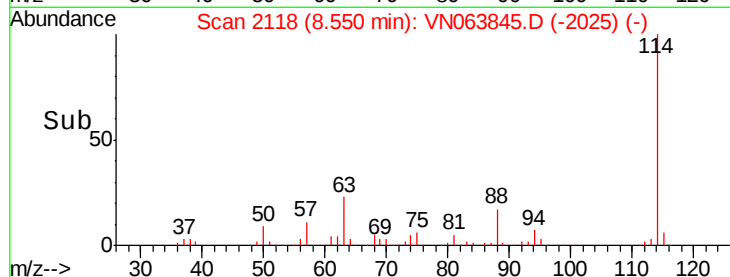
88 16.7 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 48.508 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063845.D

Acq: 3 Oct 2020 1:56

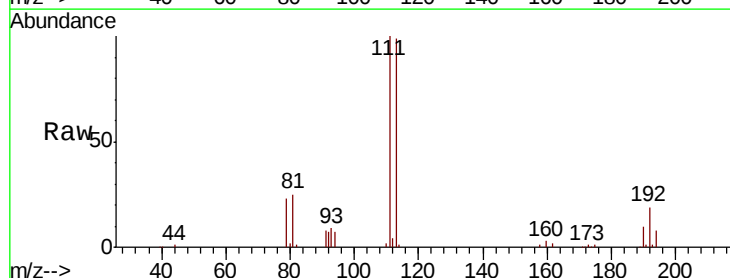
Tgt Ion:113 Resp: 132962

Ion Ratio Lower Upper

113 100

111 100.5 81.8 122.8

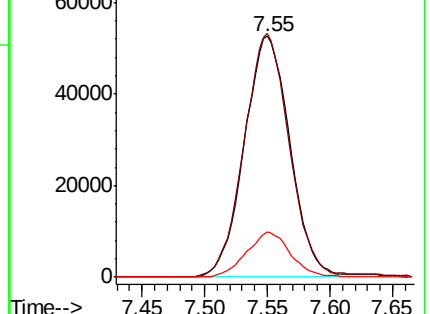
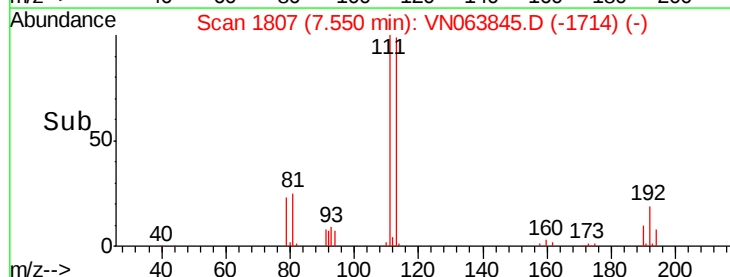
192 17.9 14.2 21.2

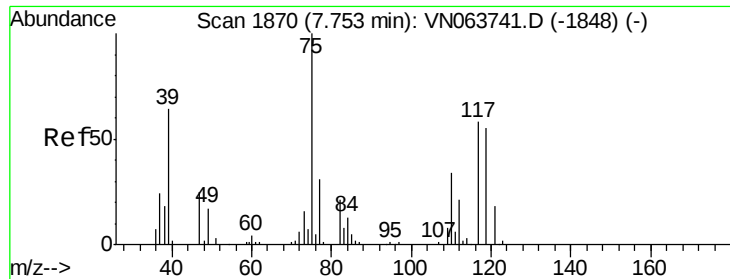


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

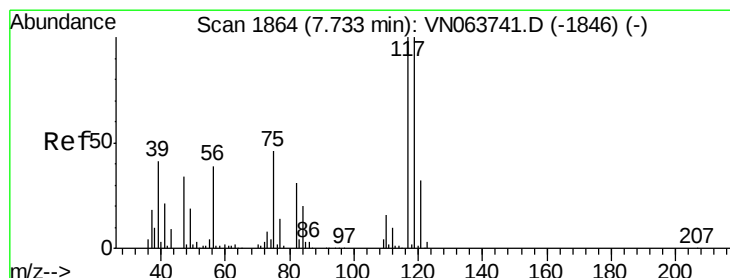
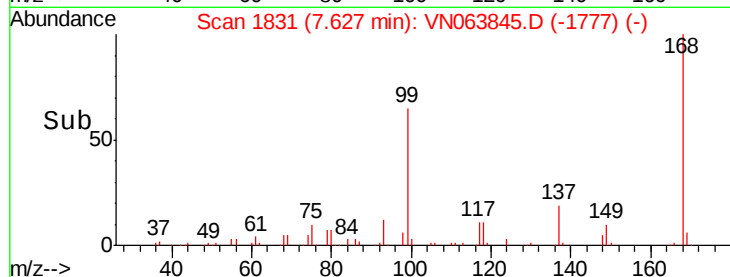
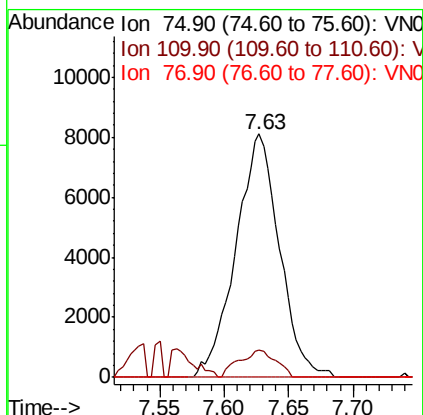
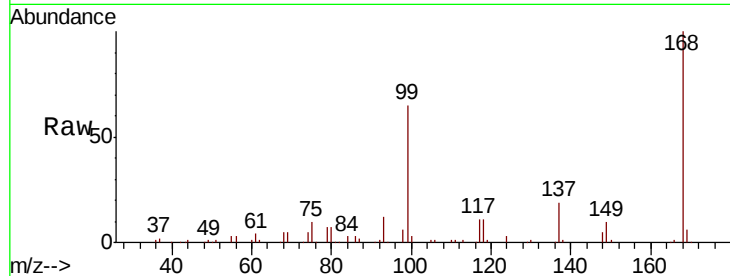




#36
 1,1-Dichloropropene
 Concen: 4.771 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063845.D
 Acq: 3 Oct 2020 1:56

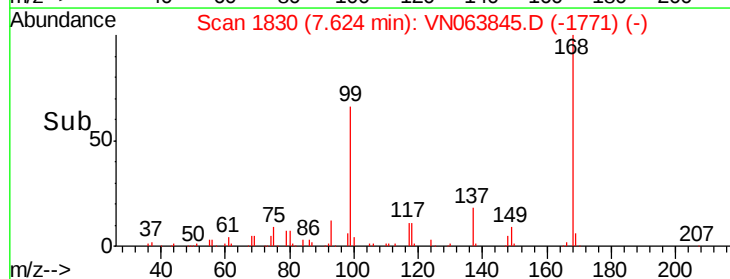
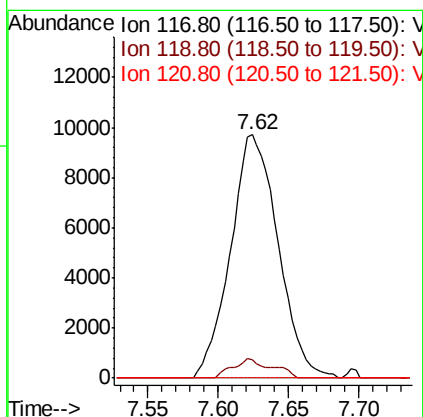
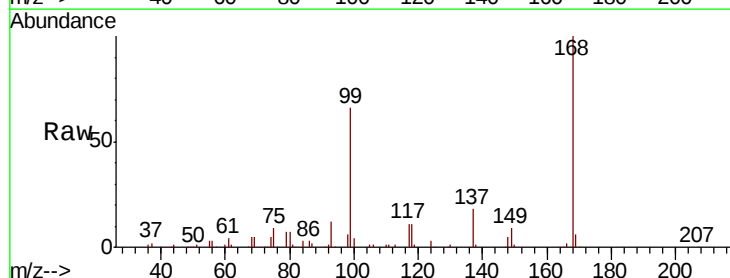
Instrument :
 MSVOA_N
 ClientSampleId :
 BU-03-093020

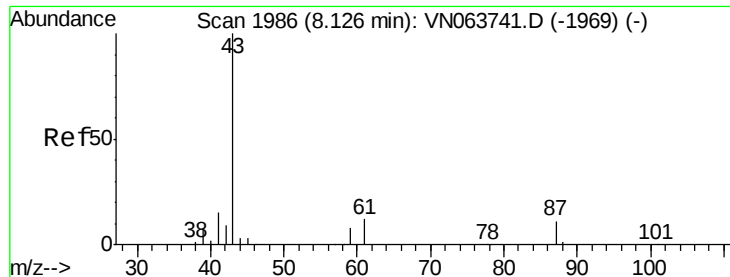
Tot Ion: 75 Resp: 19092
 Ion Ratio Lower Upper
 75 100
 110 9.3 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.101 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063845.D
 Acq: 3 Oct 2020 1:56

Tgt Ion: 117 Resp: 22892
 Ion Ratio Lower Upper
 117 100
 119 7.8 80.1 120.1#
 121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 7.464 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063845.D

Acq: 3 Oct 2020 1:56

Instrument :

MSVOA_N

ClientSampleId :

BU-03-093020

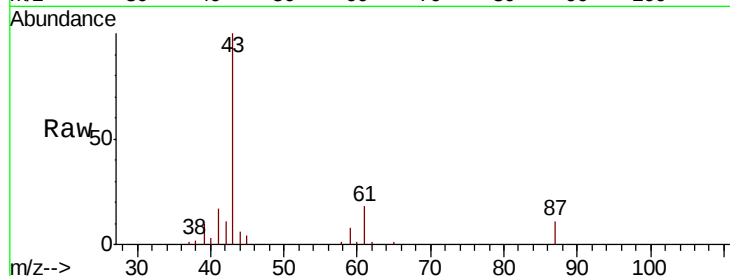
Tot Ion: 43 Resp: 48954

Ion Ratio Lower Upper

43 100

61 19.0 14.2 21.4

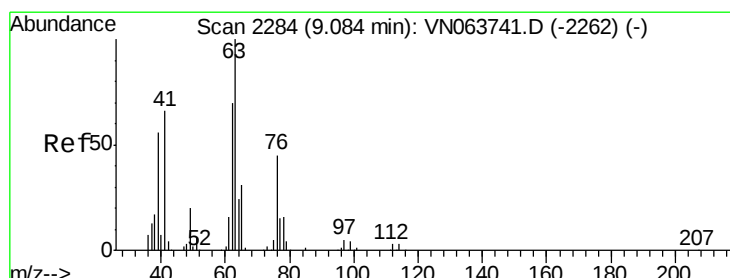
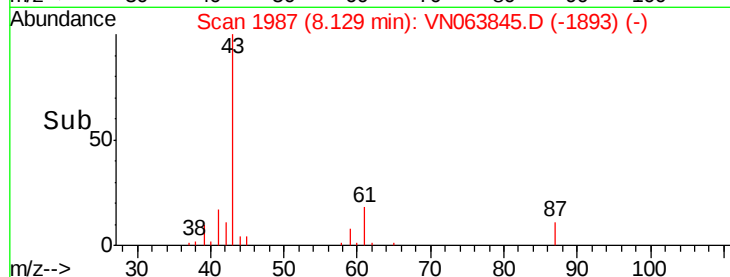
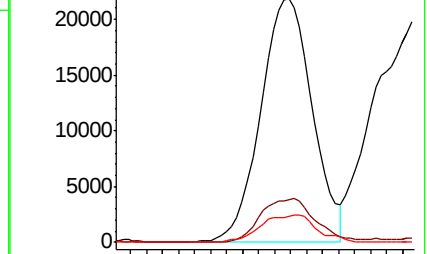
87 12.0 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063845.D (-1986) (-)

Ion 61.00 (60.70 to 61.70): VN063845.D (-1986) (-)

Ion 87.00 (86.70 to 87.70): VN063845.D (-1986) (-)



#45

1,2-Dichloropropane

Concen: 0.209 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.16 min

Lab File: VN063845.D

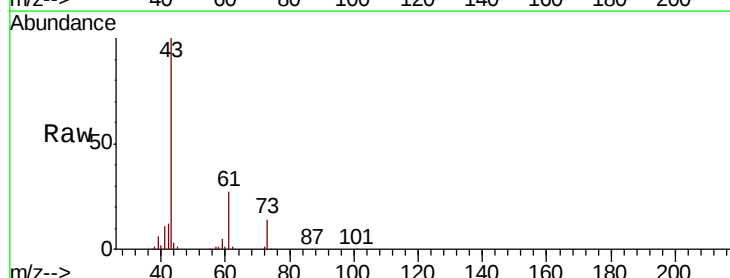
Acq: 3 Oct 2020 1:56

Tgt Ion: 63 Resp: 646

Ion Ratio Lower Upper

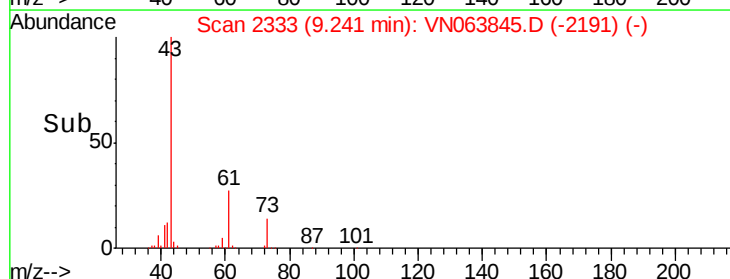
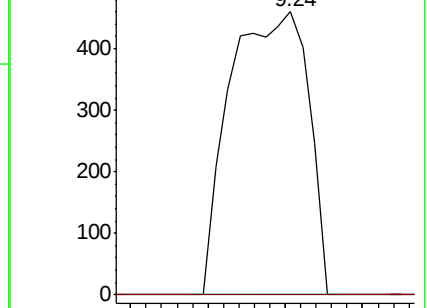
63 100

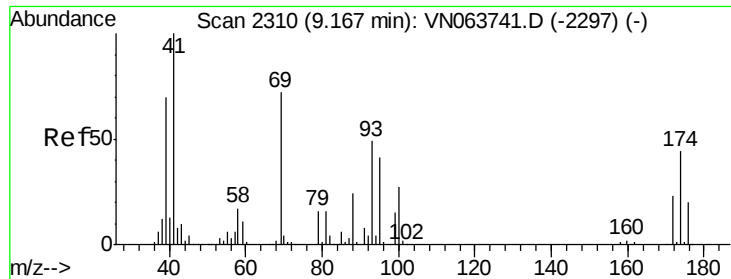
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN063845.D (-2333) (-)

Ion 64.90 (64.60 to 65.60): VN063845.D (-2333) (-)

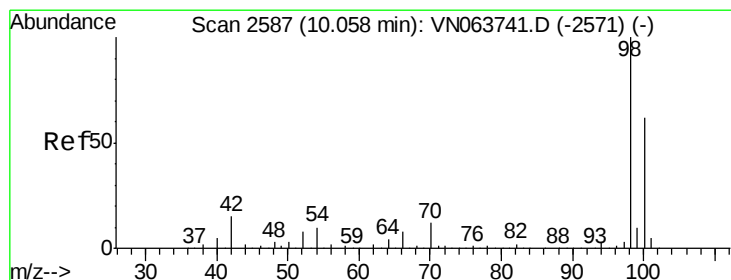
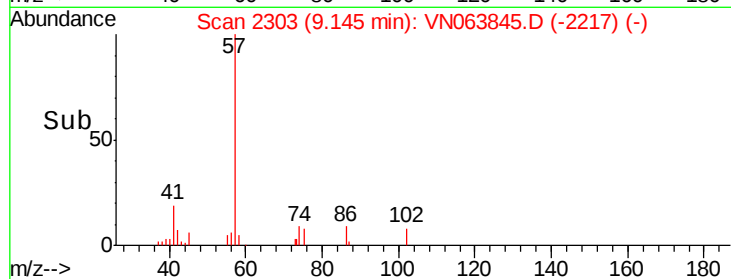
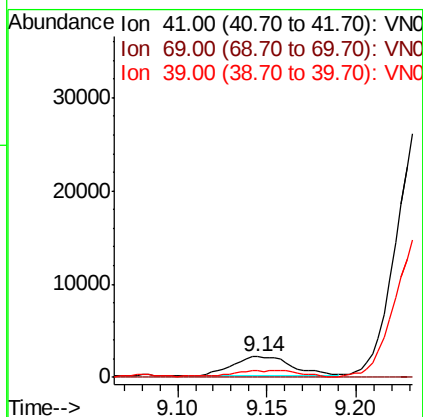
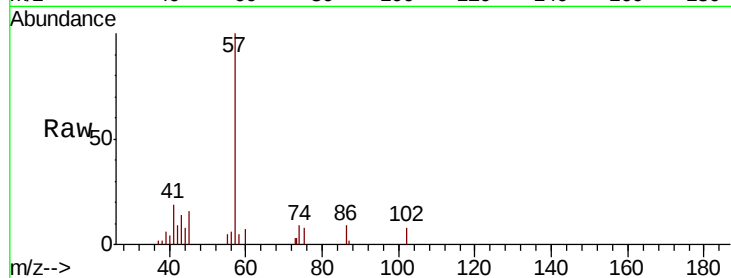




#48
Methvl methacrylate
Concen: 1.491 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

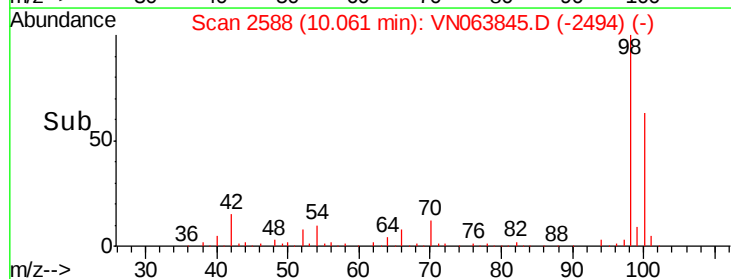
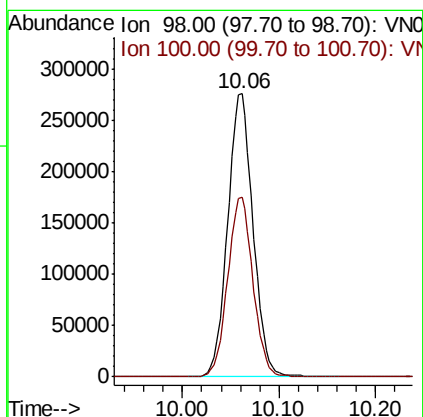
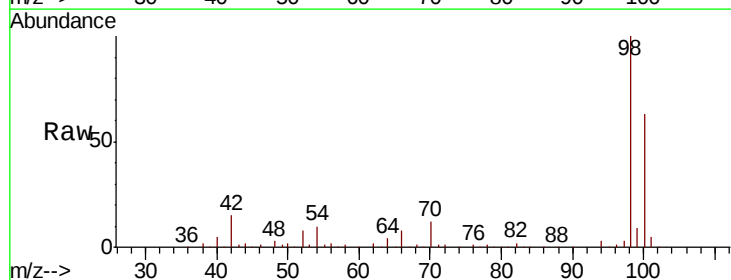
Instrument :
MSVOA_N
ClientSampleId :
BU-03-093020

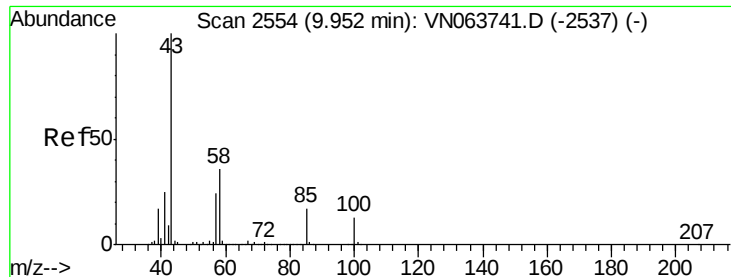
Tot Ion: 41 Resp: 4831
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#



#50
Toluene-d8
Concen: 48.342 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

Tgt Ion: 98 Resp: 502317
Ion Ratio Lower Upper
98 100
100 63.2 49.8 74.6





#51

4-Methyl-2-Pentanone

Concen: 2.336 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063845.D

Acq: 3 Oct 2020 1:56

Instrument :

MSVOA_N

ClientSampleId :

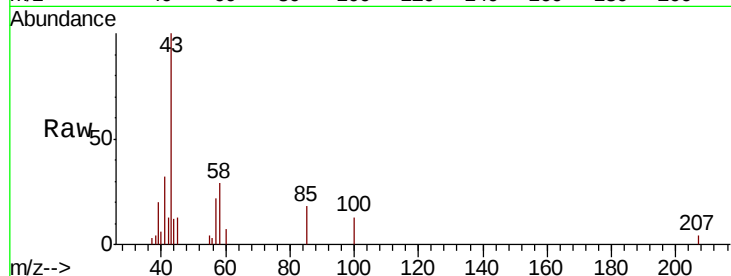
BU-03-093020

Tot Ion: 43 Resp: 8990

Ion Ratio Lower Upper

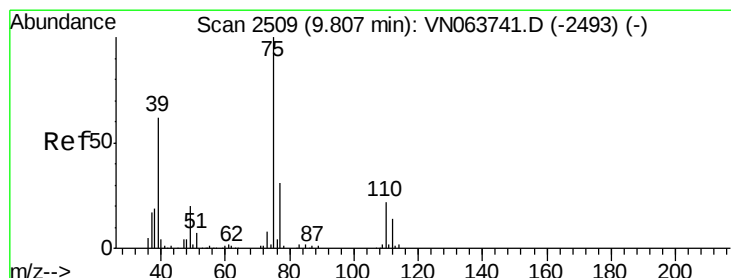
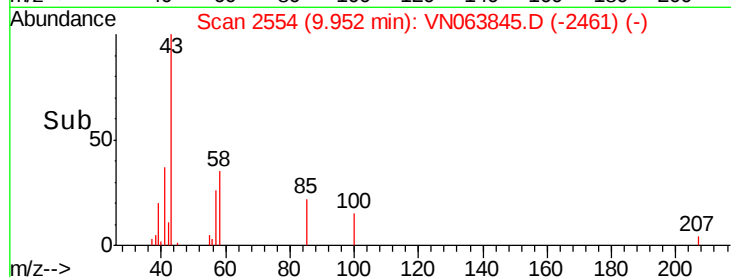
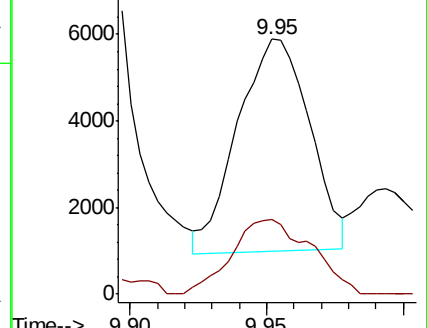
43 100

58 38.7 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063741.D (-2537) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.419 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063845.D

Acq: 3 Oct 2020 1:56

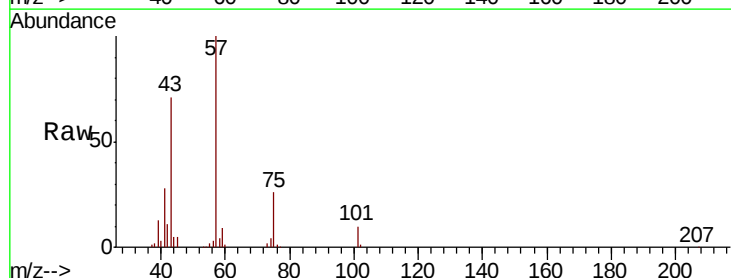
Tgt Ion: 75 Resp: 26666

Ion Ratio Lower Upper

75 100

77 1.3 24.6 36.8#

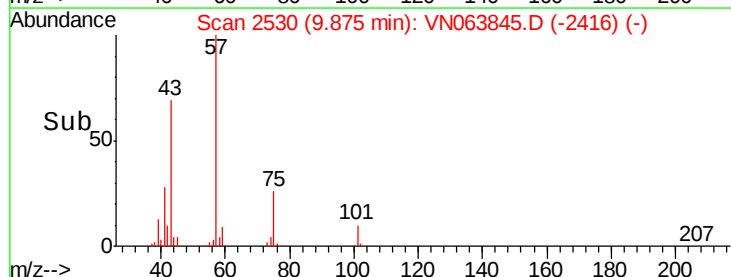
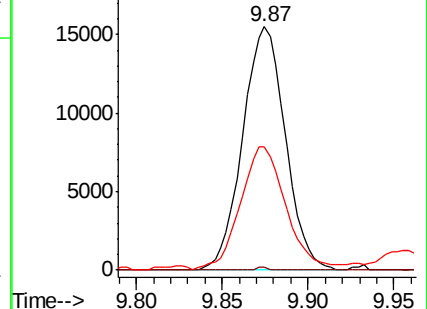
39 50.8 49.7 74.5

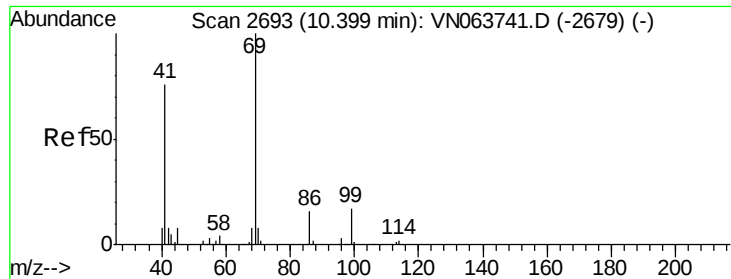


Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN063741.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063741.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.622 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063845.D

Acq: 3 Oct 2020 1:56

Instrument :

MSVOA_N

ClientSampleId :

BU-03-093020

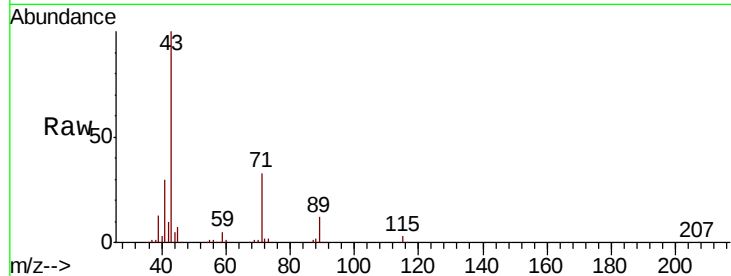
Tot Ion: 69 Resp: 2501

Ion Ratio Lower Upper

69 100

41 3491.8 61.1 91.7#

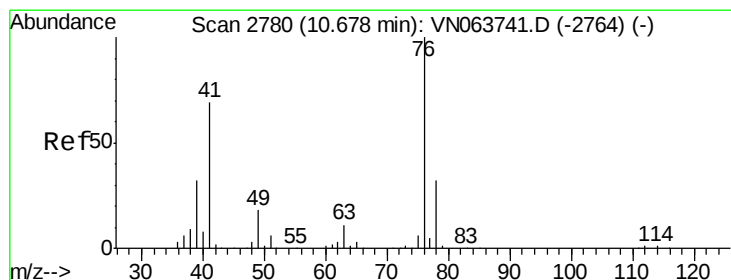
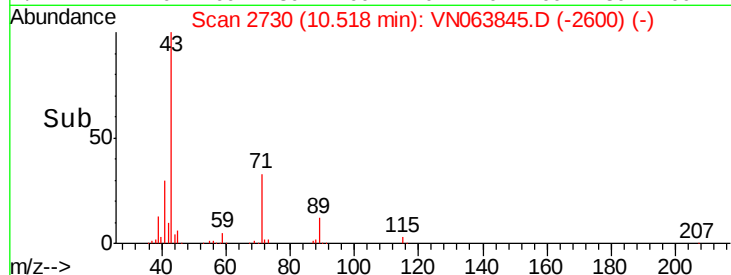
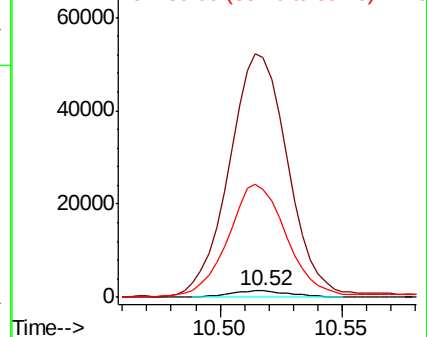
39 1633.1 42.2 63.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.680 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063845.D

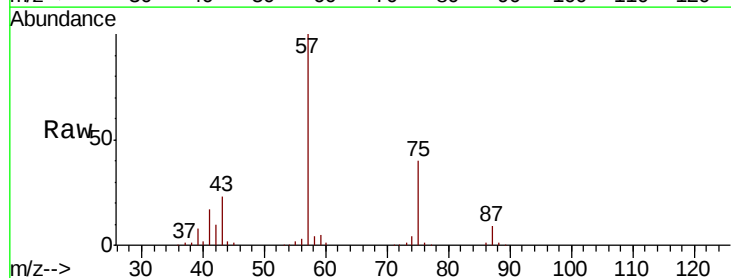
Acq: 3 Oct 2020 1:56

Tgt Ion: 76 Resp: 3264

Ion Ratio Lower Upper

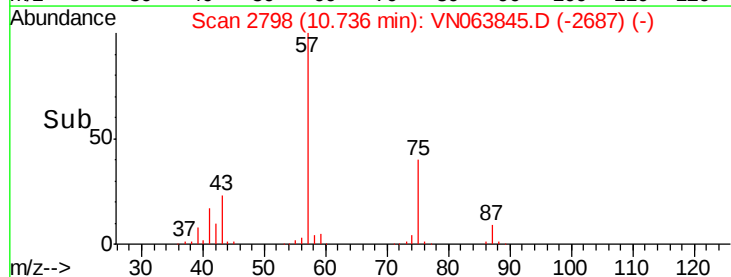
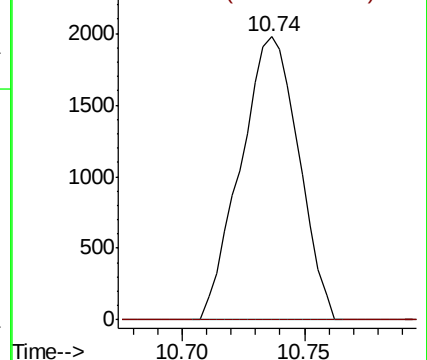
76 100

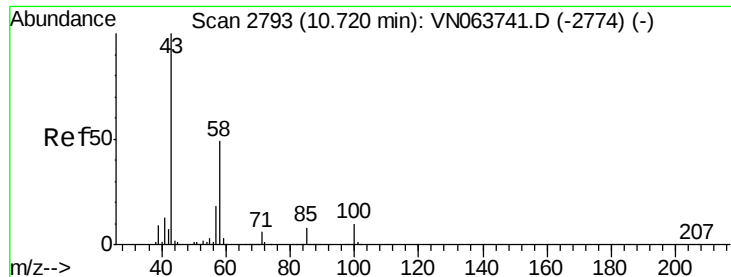
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

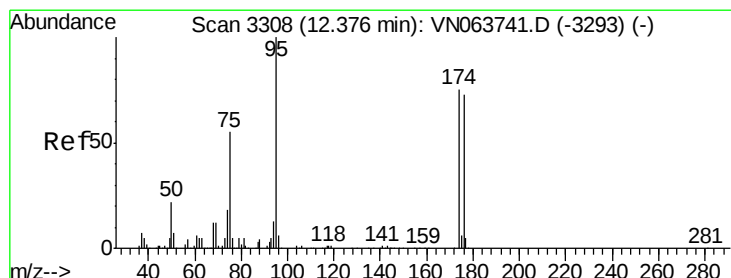
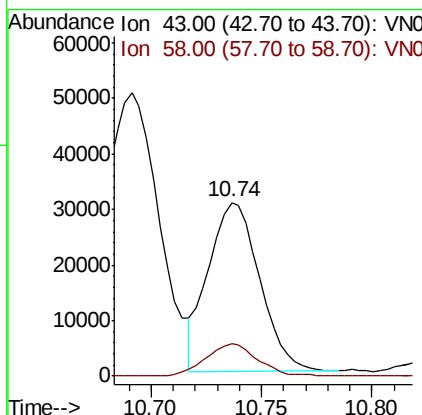
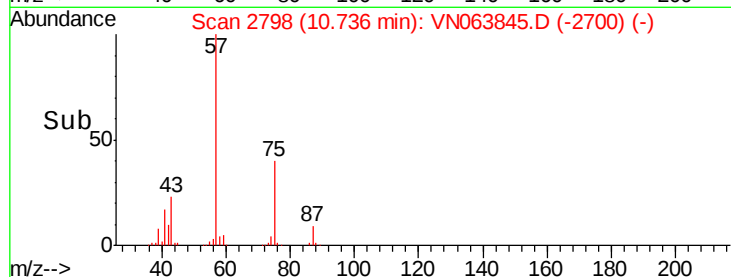
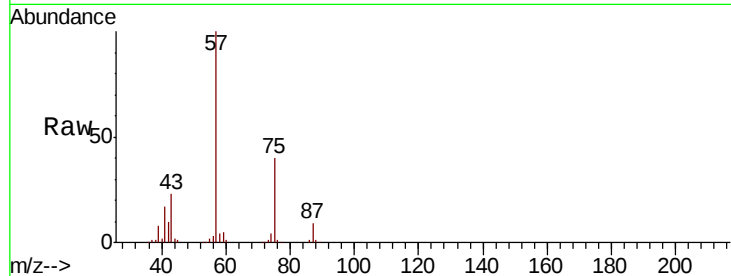




#59
2-Hexanone
Concen: 17.127 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

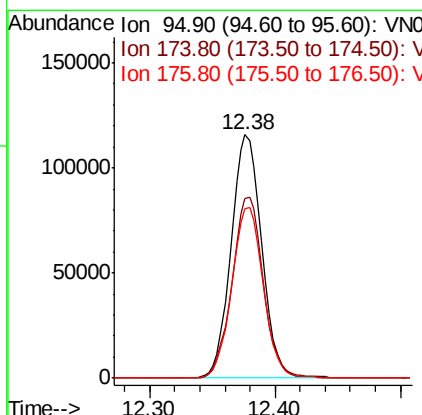
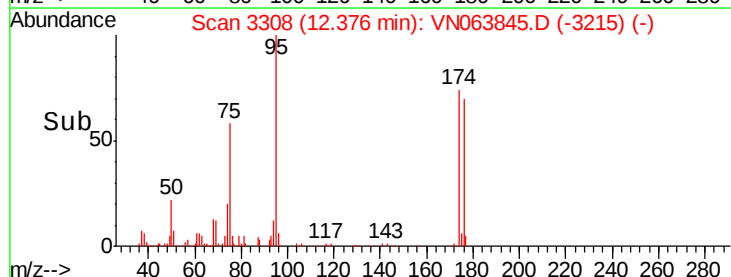
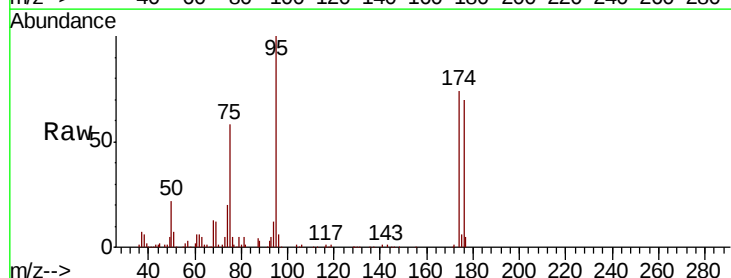
Instrument :
MSVOA_N
ClientSampleId :
BU-03-093020

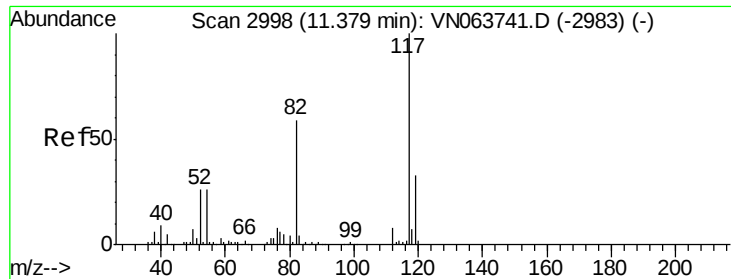
Tot Ion: 43 Resp: 48968
Ion Ratio Lower Upper
43 100
58 19.6 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 50.284 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

Tgt Ion: 95 Resp: 196411
Ion Ratio Lower Upper
95 100
174 75.9 0.0 150.6
176 72.1 0.0 145.4

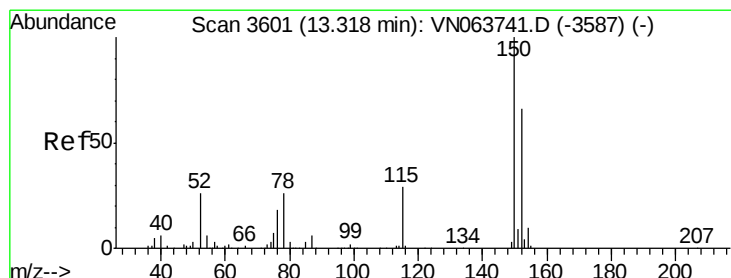
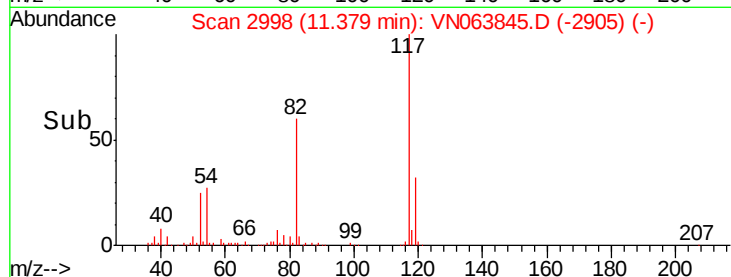
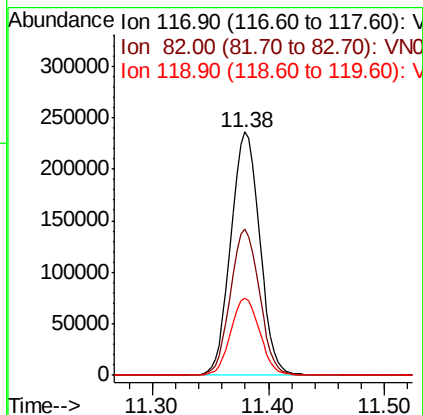
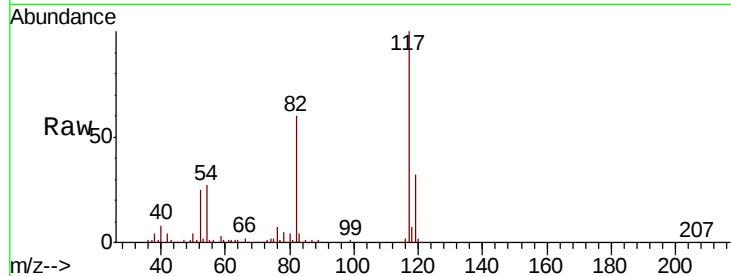




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

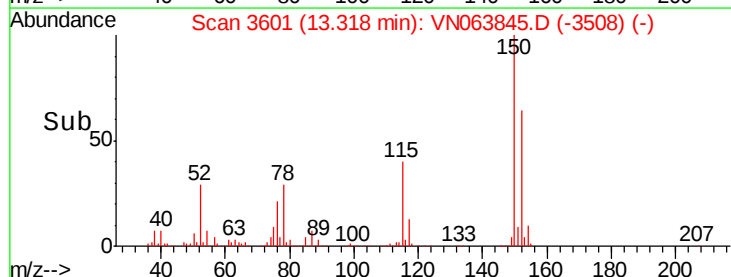
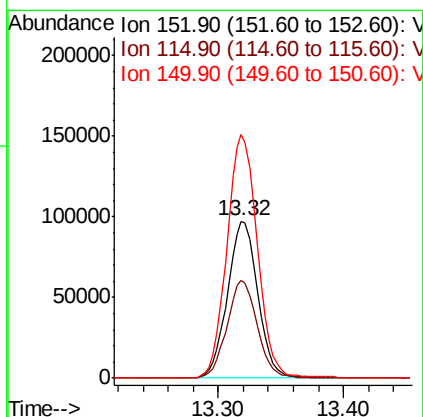
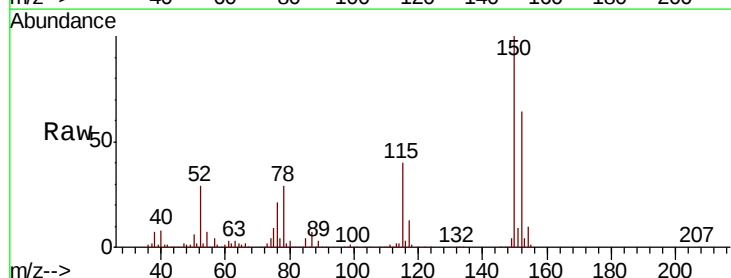
Instrument :
MSVOA_N
ClientSampleId :
BU-03-093020

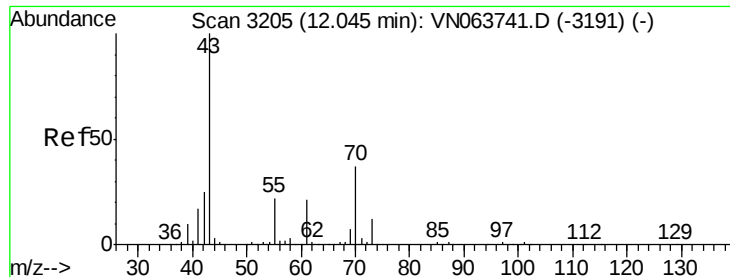
Tot Ion:117 Resp: 407857
Ion Ratio Lower Upper
117 100
82 59.9 47.4 71.2
119 31.6 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

Tgt Ion:152 Resp: 163178
Ion Ratio Lower Upper
152 100
115 62.0 31.3 93.8
150 156.2 0.0 341.8





#74

N-amvl acetate

Concen: 2.852 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063845.D

Acq: 3 Oct 2020 1:56

Instrument :

MSVOA_N

ClientSampleId :

BU-03-093020

Tot Ion: 43 Resp: 3680

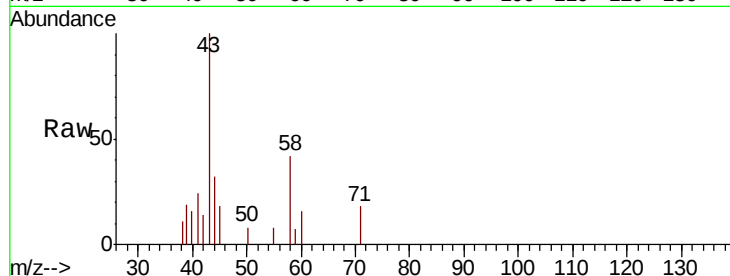
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 1.8 17.9 26.9#

61 0.0 17.0 25.4#

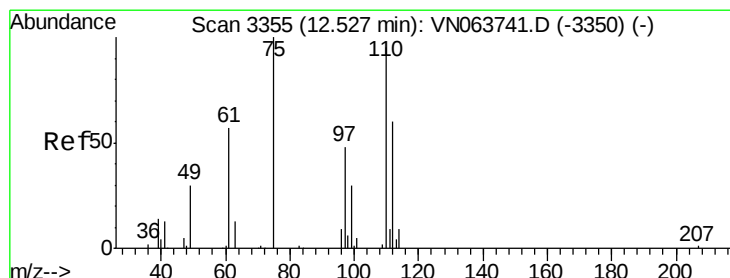
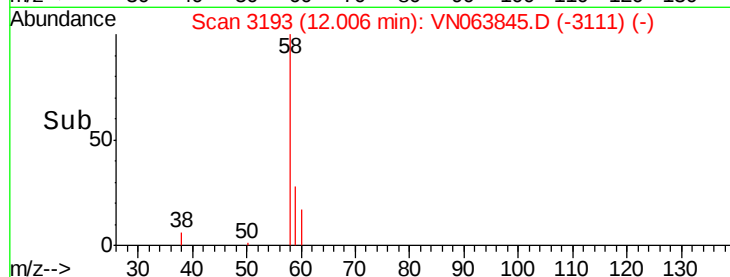
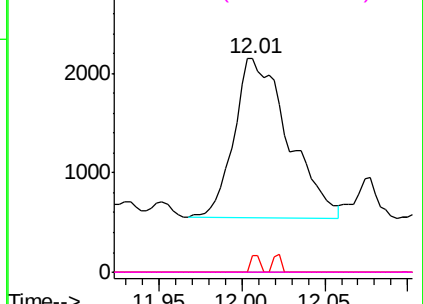


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 31.155 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063845.D

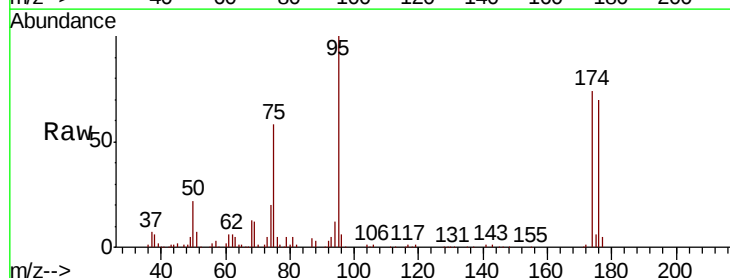
Acq: 3 Oct 2020 1:56

Tgt Ion: 75 Resp: 112066

Ion Ratio Lower Upper

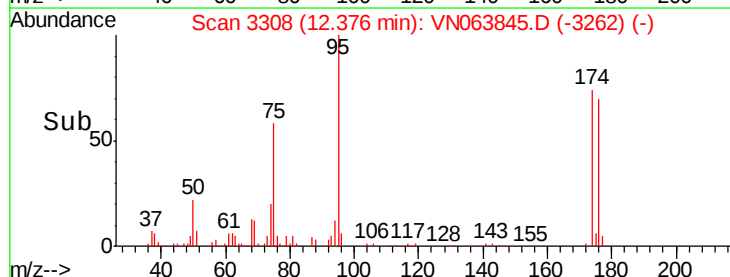
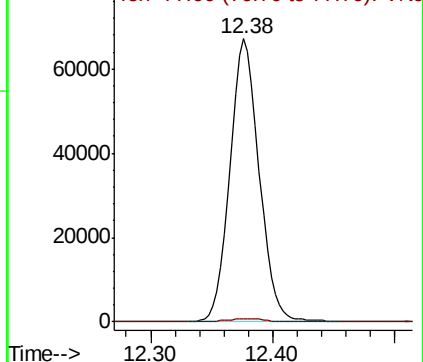
75 100

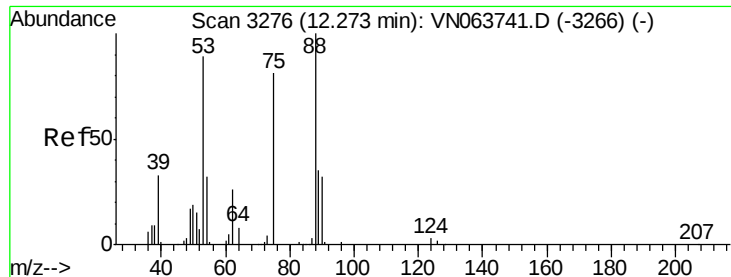
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

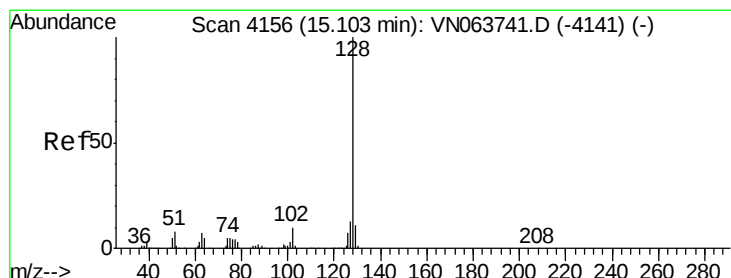
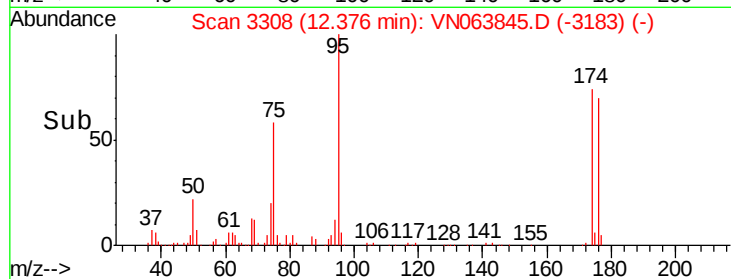
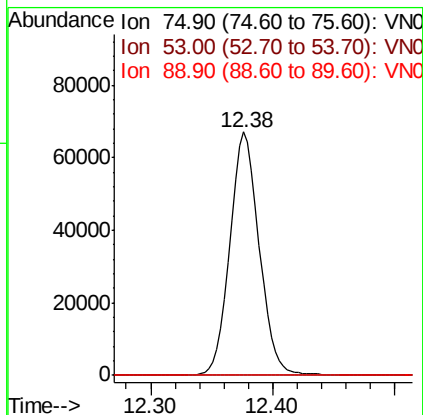
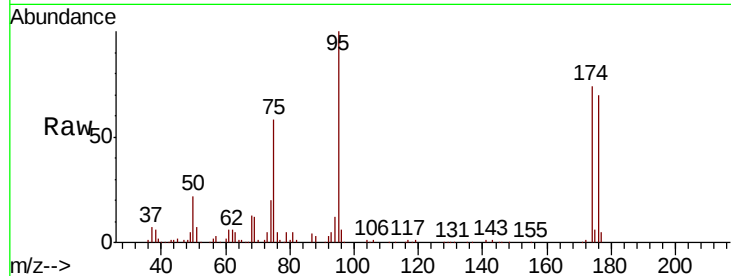




#81
trans-1,4-Dichloro-2-butene
Concen: 89.730 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

Instrument :
MSVOA_N
ClientSampled :
BU-03-093020

Tot Ion: 75 Resp: 112066
Ion Ratio Lower Upper
75 100
53 0.0 88.2 132.2#
89 0.0 36.0 54.0#



#95
Naphthalene
Concen: 1.943 ug/l
RT: 15.11 min Scan# 4158
Delta R.T. 0.01 min
Lab File: VN063845.D
Acq: 3 Oct 2020 1:56

Tgt Ion: 128 Resp: 166
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#

