

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100520\
 Data File : VN063875.D
 Acq On : 5 Oct 2020 16:56
 Operator : JC/MD
 Sample : PB132063ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#07

Quant Time: Oct 06 01:39:40 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	7.63	168	229587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	432983	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	447571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	174047	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	201335	53.08	ug/l	0.00
Spiked Amount			Recovery	=	106.16%	
35) Dibromofluoromethane	7.55	113	146017	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
50) Toluene-d8	10.06	98	561783	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
62) 4-Bromofluorobenzene	12.38	95	213683	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	10418	8.923	ug/l	92
17) Carbon Disulfide	4.02	76	203	0.733	ug/l #	76
18) Methyl Acetate	4.28	43	1211	0.399	ug/l #	88
20) Methylene Chloride	4.51	84	10267	3.930	ug/l	91
25) 2-Butanone	6.80	43	1255	0.758	ug/l #	71
29) Tetrahydrofuran	7.17	42	797	0.718	ug/l #	53
31) Cyclohexane	7.63	56	6223	1.413	ug/l #	15
36) 1,1-Dichloropropene	7.63	75	20942	4.774	ug/l #	50
38) Carbon Tetrachloride	7.63	117	26378	5.363	ug/l #	14
41) Methacrylonitrile	7.16	41	388	0.200	ug/l #	1
43) Isopropyl Acetate	8.13	43	86880	12.086	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1786	0.528	ug/l #	44
48) Methyl methacrylate	9.15	41	5142	1.448	ug/l #	12
49) 1,4-Dioxane	9.23	88	64	1.268	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9212	2.184	ug/l	97
52) Toluene	10.13	92	1701	0.219	ug/l	85
54) cis-1,3-Dichloropropene	9.87	75	34074	6.318	ug/l #	66
56) Ethyl methacrylate	10.51	69	2349	0.533	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6077	1.156	ug/l #	43
59) 2-Hexanone	10.74	43	103129	32.909	ug/l #	54
74) N-amyl acetate	12.01	43	2844	2.677	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	122250	31.864	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6136	0.576	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.38	75	122250	91.772	ug/l #	6

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

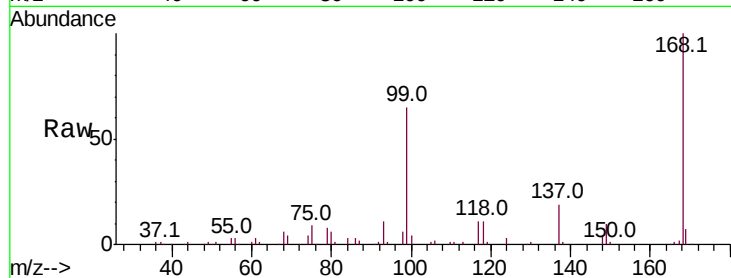
PB132063ZHE#07

Tot Ion:168 Resp: 229587

Ion Ratio Lower Upper

168 100

99 65.2 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): VN063741.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN063741.D (-1812) (-)

7.63

100000

80000

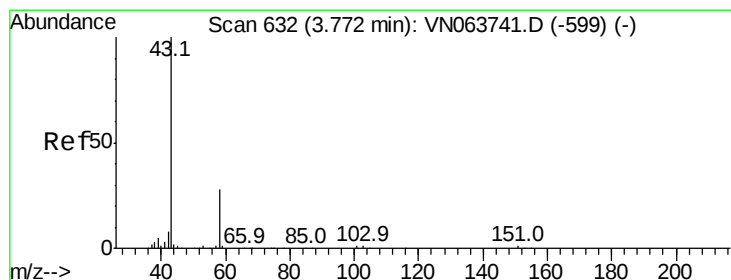
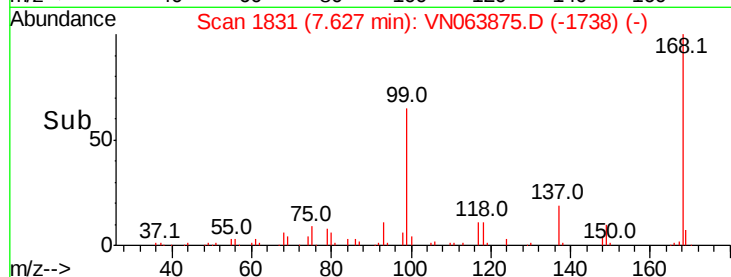
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 8.923 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063875.D

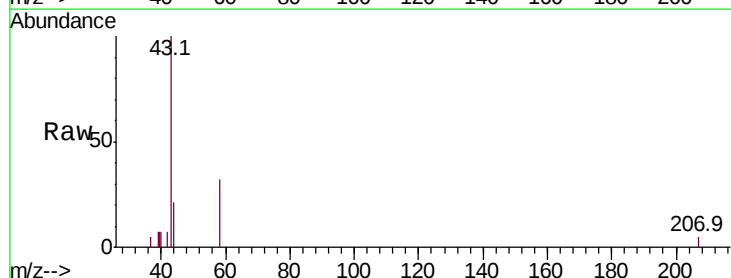
Acq: 5 Oct 2020 16:56

Tgt Ion: 43 Resp: 10418

Ion Ratio Lower Upper

43 100

58 32.1 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN063741.D (-599) (-)

3.78

4000

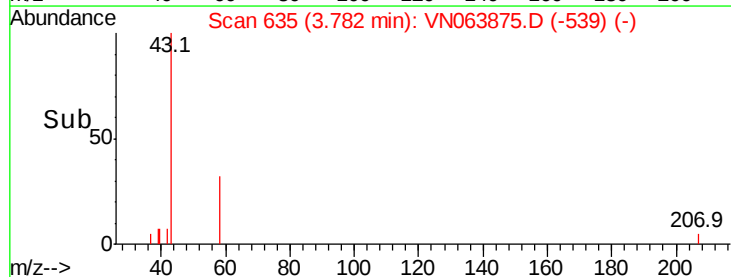
3000

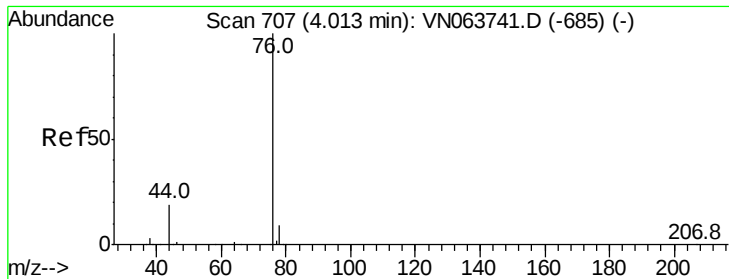
2000

1000

0

Time--> 3.70 3.75 3.80 3.85





#17

Carbon Disulfide

Concen: 0.733 ug/l

RT: 4.02 min Scan# 709

Delta R.T. 0.01 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

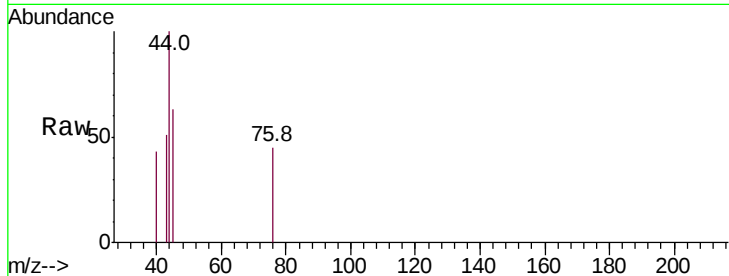
PB132063ZHE#07

Tot Ion: 76 Resp: 203

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

4.02

250

200

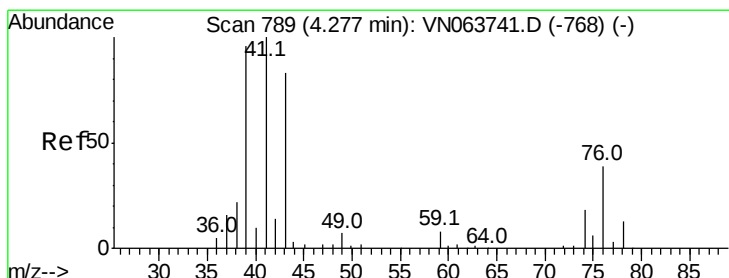
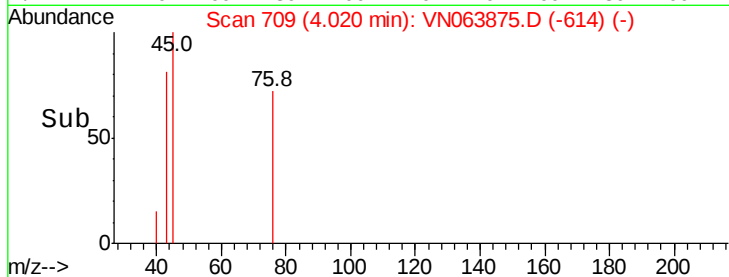
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 0.399 ug/l

RT: 4.28 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN063875.D

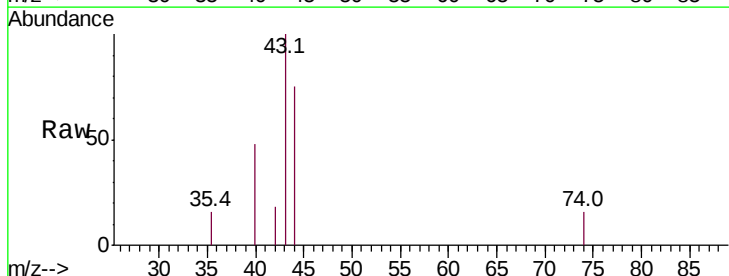
Acq: 5 Oct 2020 16:56

Tgt Ion: 43 Resp: 1211

Ion Ratio Lower Upper

43 100

74 16.2 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

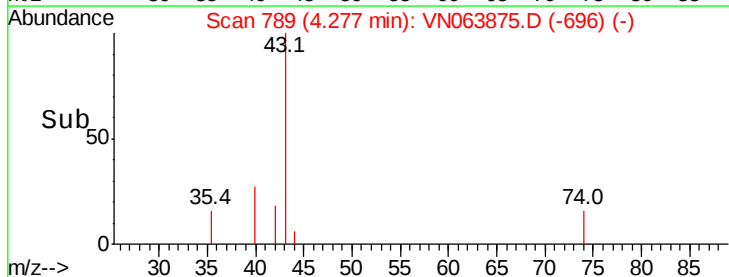
1500

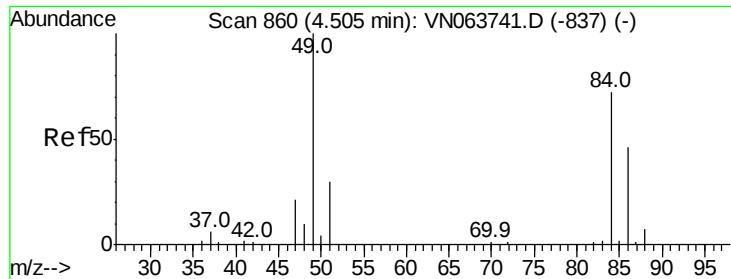
1000

500

0

Time-->

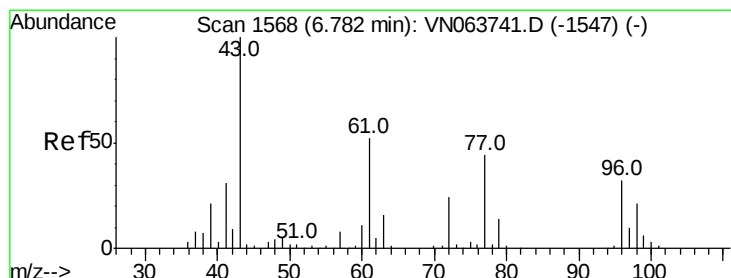
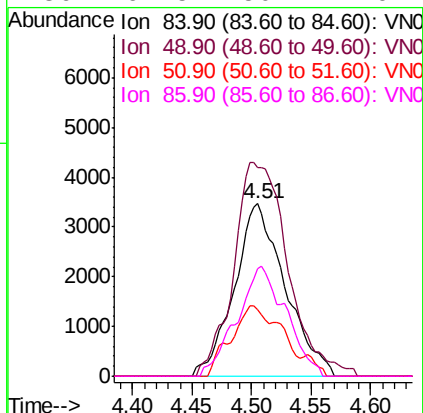
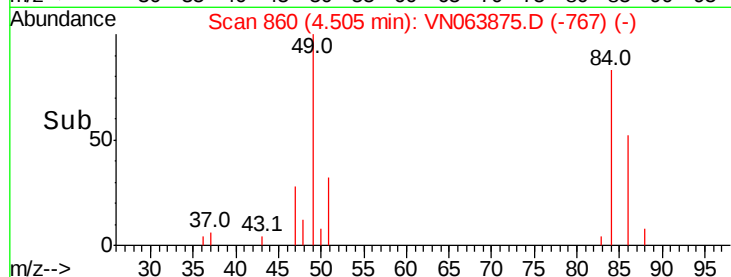
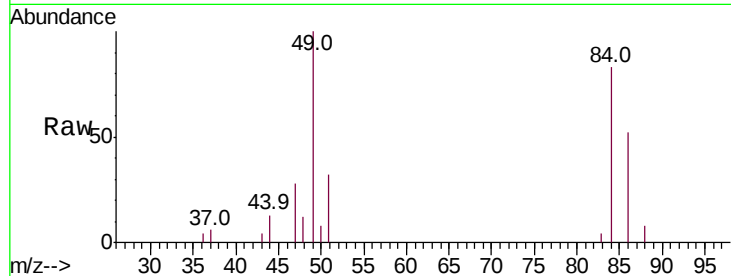




#20
Methvlene Chloride
Concen: 3.930 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063875.D
Acq: 5 Oct 2020 16:56

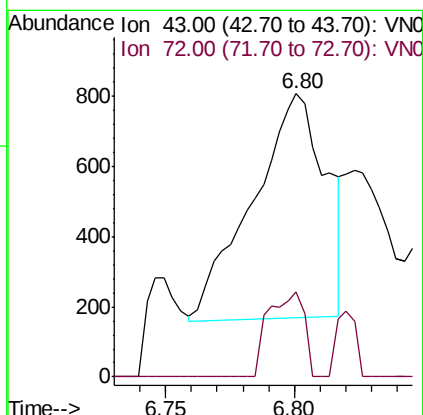
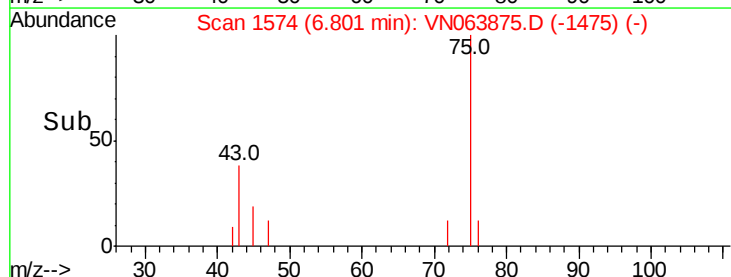
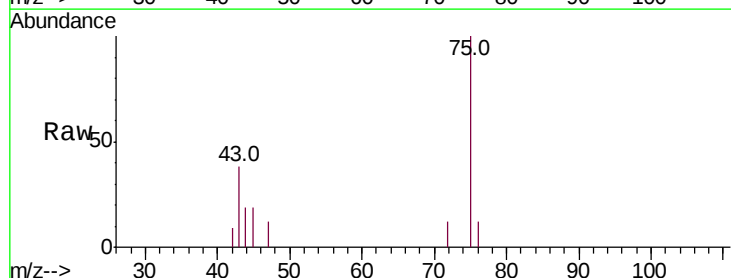
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#07

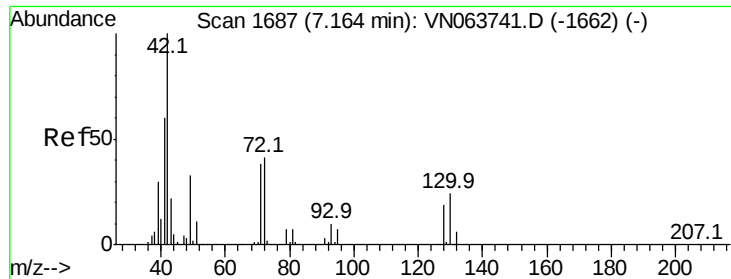
Tot Ion:	84	Resp:	10267
Ion	Ratio	Lower	Upper
84	100		
49	121.0	110.4	165.6
51	38.4	33.3	49.9
86	62.5	50.7	76.1



#25
2-Butanone
Concen: 0.758 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063875.D
Acq: 5 Oct 2020 16:56

Tgt Ion:	43	Resp:	1255
Ion	Ratio	Lower	Upper
43	100		
72	38.5	19.3	28.9#





#29

Tetrahydrofuran

Concen: 0.718 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#07

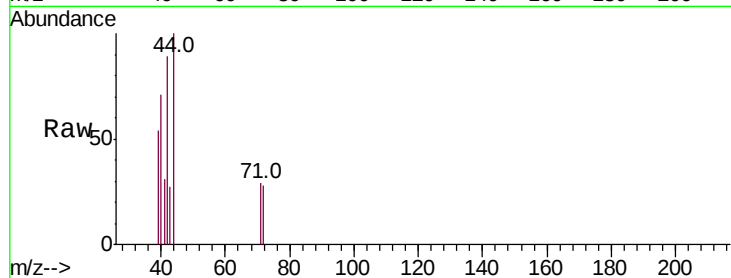
Tot Ion: 42 Resp: 797

Ion Ratio Lower Upper

42 100

72 7.9 32.8 49.2#

71 13.2 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

600

400

200

0

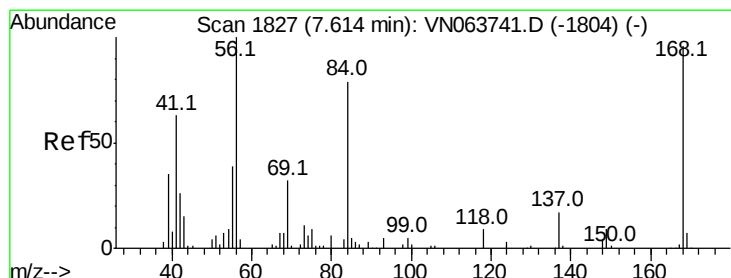
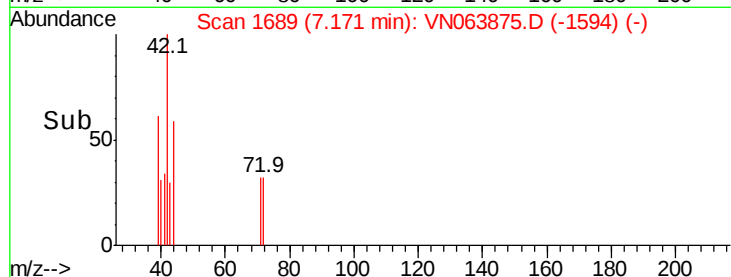
7.14

7.16

7.18

7.20

Time-->



#31

Cyclohexane

Concen: 1.413 ug/l

RT: 7.63 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

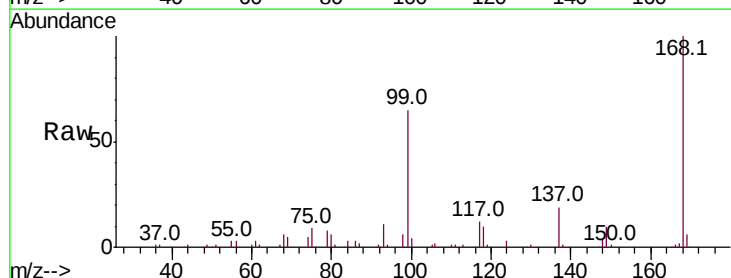
Tgt Ion: 56 Resp: 6223

Ion Ratio Lower Upper

56 100

69 160.3 25.4 38.2#

84 101.8 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

6000

5000

4000

3000

2000

1000

0

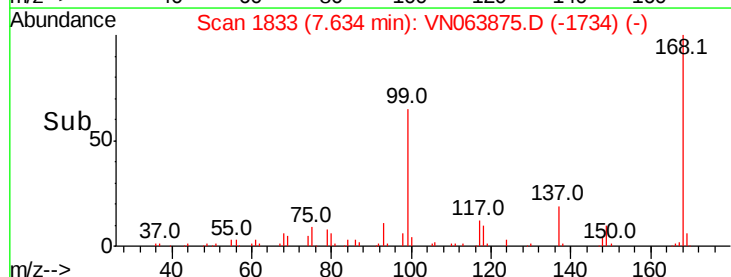
7.55

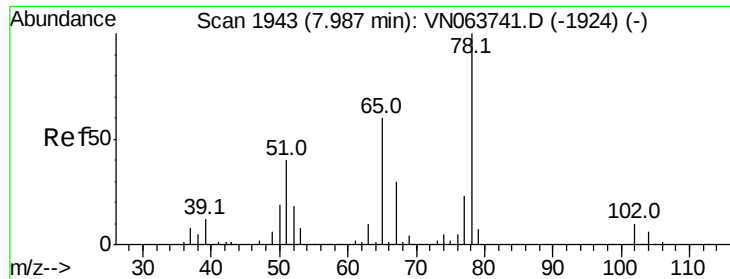
7.60

7.65

7.70

Time-->

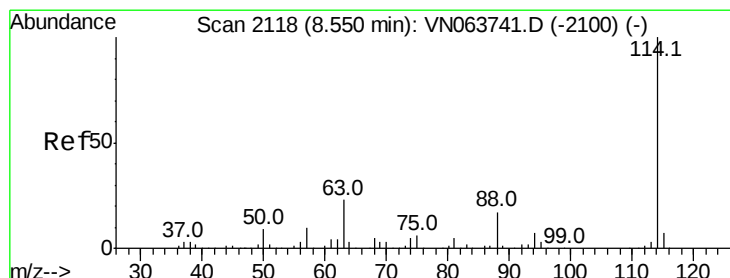
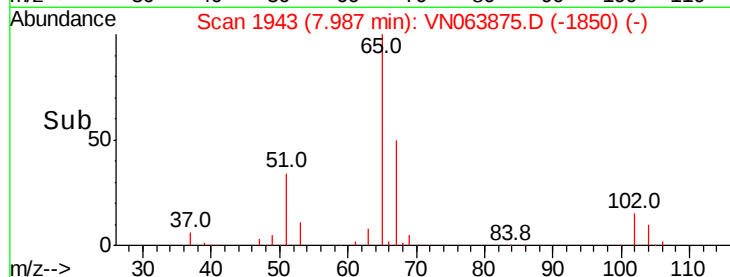
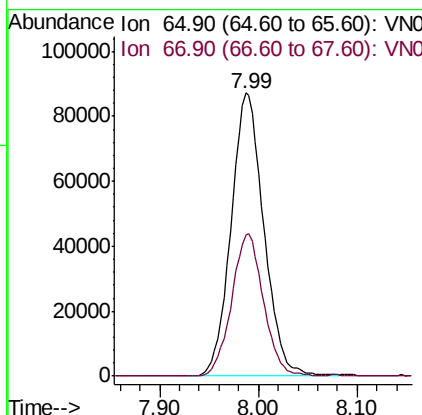
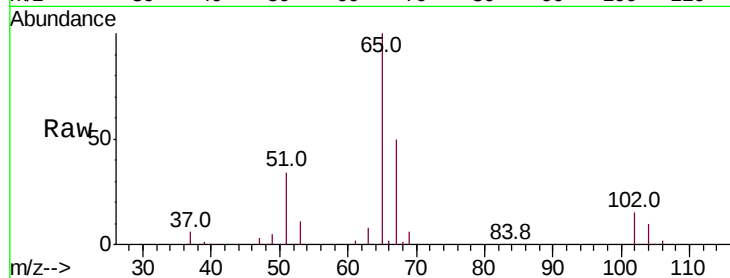




#33
 1,2-Dichloroethane-d4
 Concen: 53.082 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN063875.D
 Acq: 5 Oct 2020 16:56

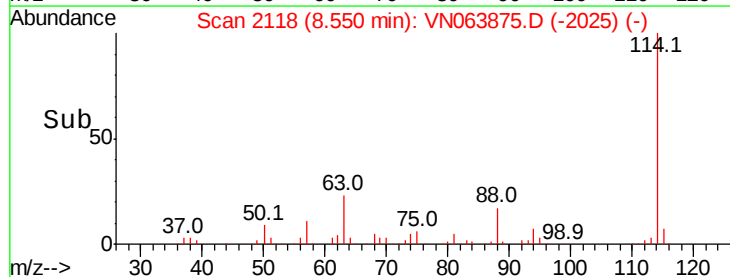
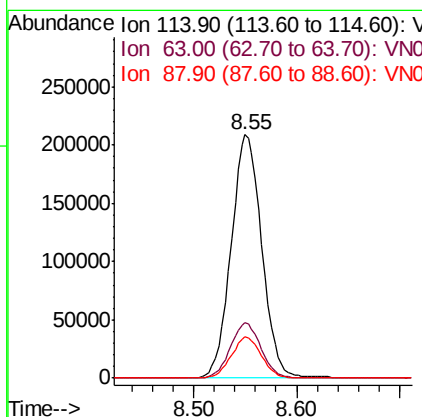
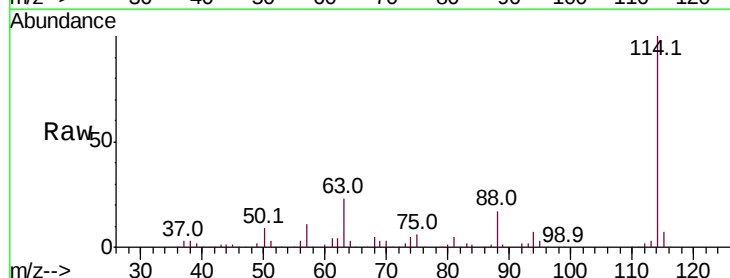
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#07

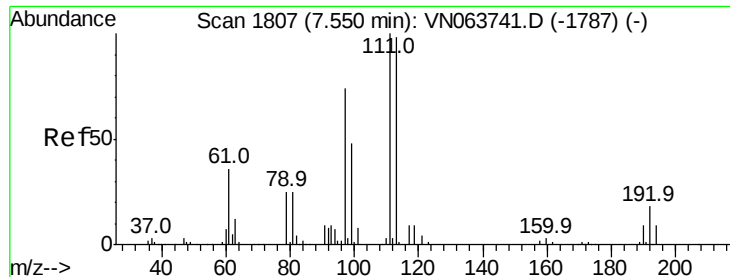
Tot Ion: 65 Resp: 201335
 Ion Ratio Lower Upper
 65 100
 67 48.9 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063875.D
 Acq: 5 Oct 2020 16:56

Tgt Ion: 114 Resp: 432983
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 45.0
 88 16.9 0.0 34.0

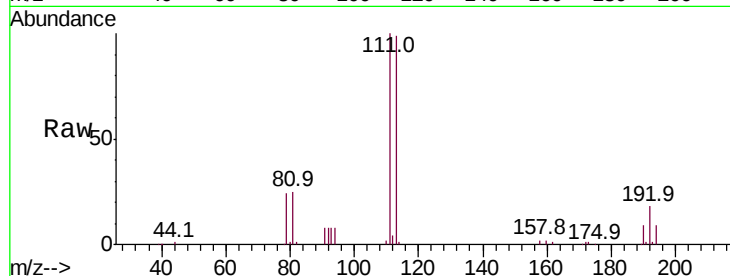




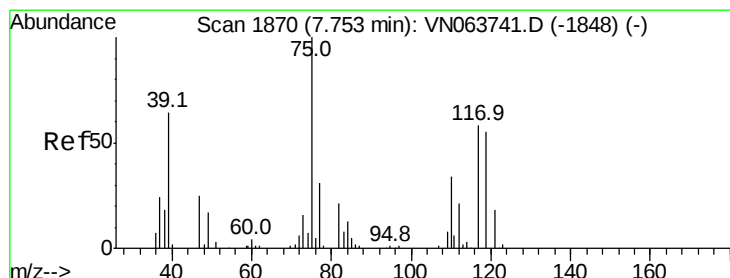
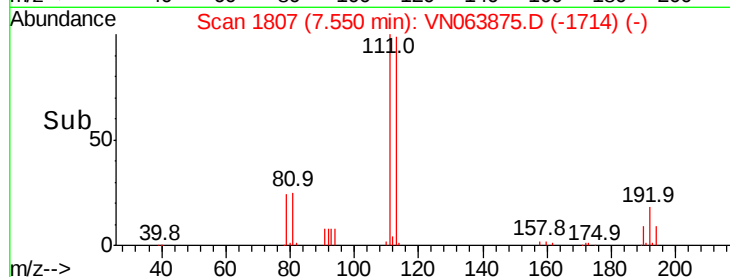
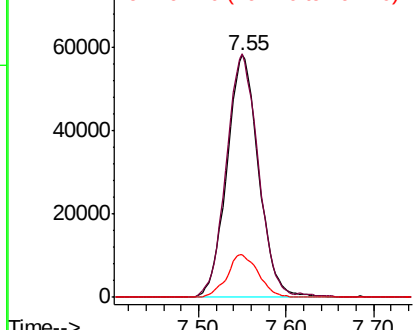
#35
 Dibromofluoromethane
 Concen: 48.602 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063875.D
 Acq: 5 Oct 2020 16:56

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#07

Tot Ion:113 Resp: 146017
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.8 122.8
 192 17.5 14.2 21.2

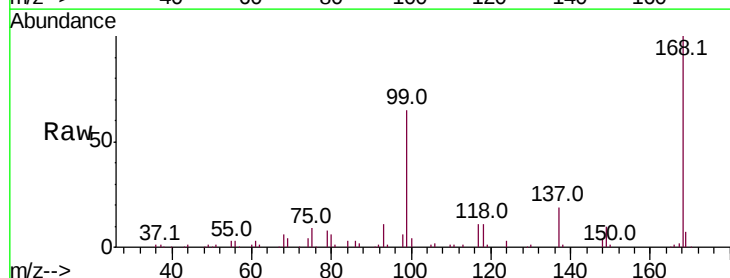


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

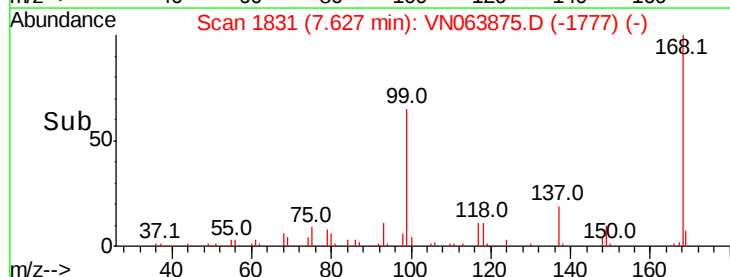
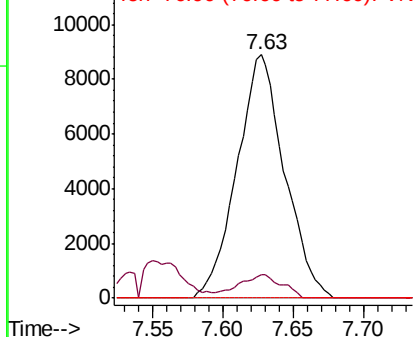


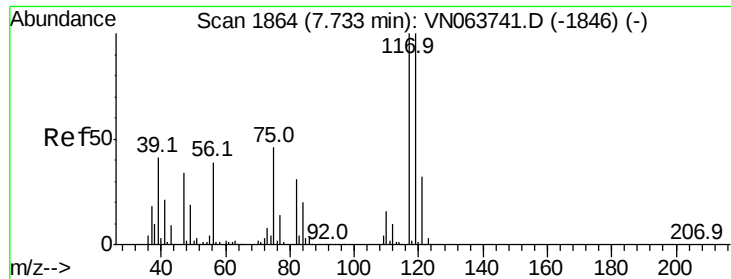
#36
 1,1-Dichloropropene
 Concen: 4.774 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063875.D
 Acq: 5 Oct 2020 16:56

Tgt Ion: 75 Resp: 20942
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.9 50.6#
 77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.363 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#07

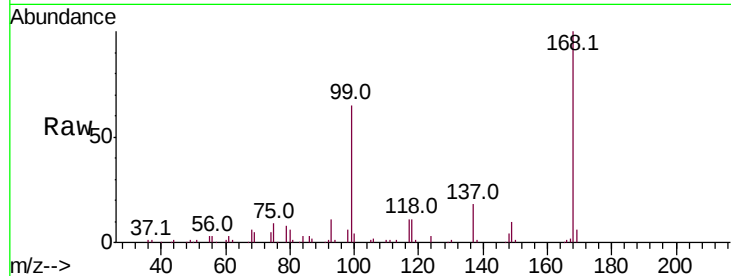
Tot Ion:117 Resp: 26378

Ion Ratio Lower Upper

117 100

119 5.5 80.1 120.1#

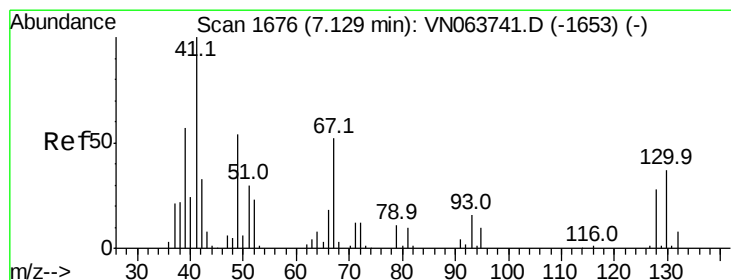
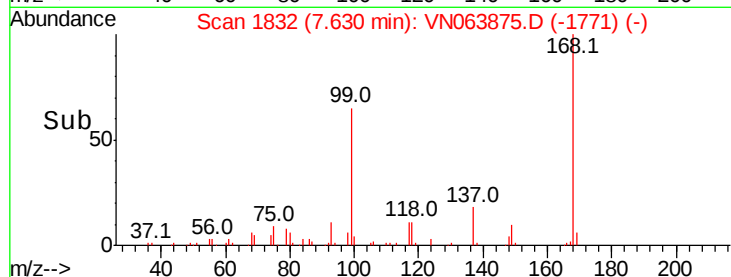
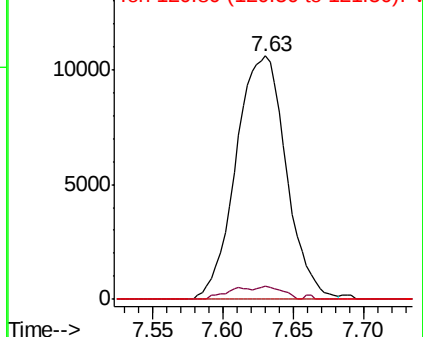
121 0.0 25.7 38.5#



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: 0.200 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. 0.04 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

Tgt Ion: 41 Resp: 388

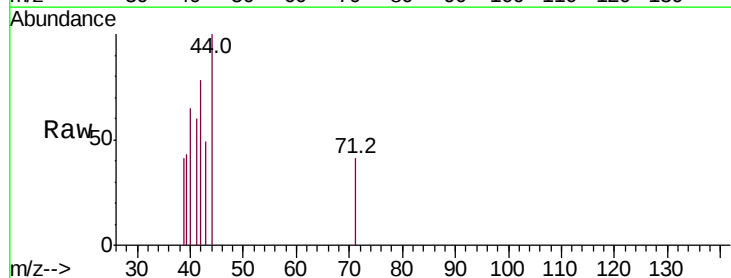
Ion Ratio Lower Upper

41 100

39 171.1 42.5 63.7#

67 0.0 57.4 86.2#

52 0.0 26.9 40.3#

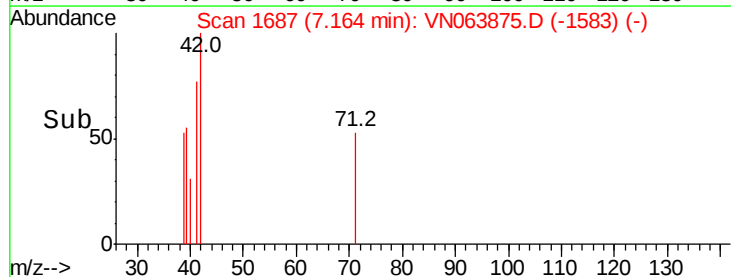
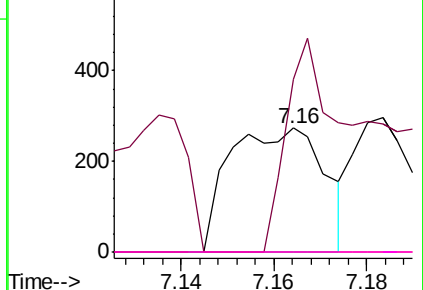


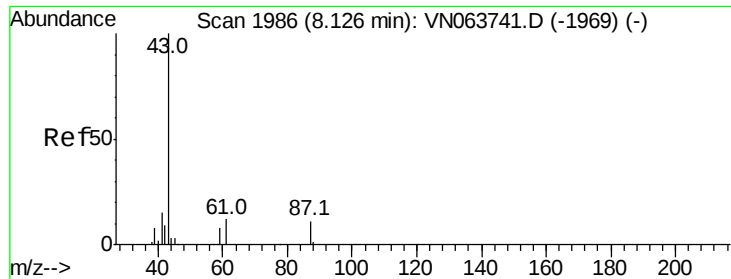
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V



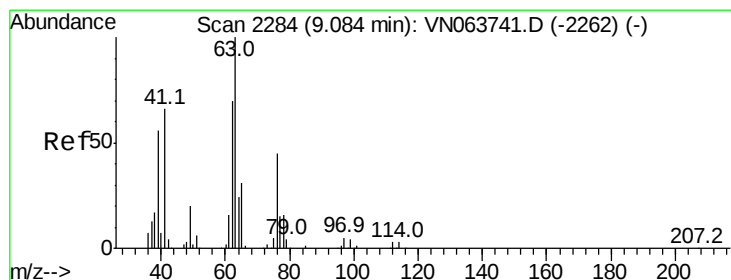
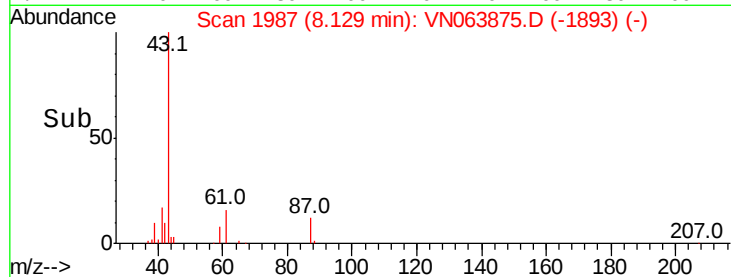
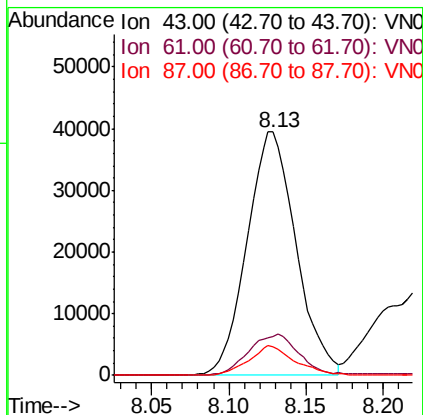
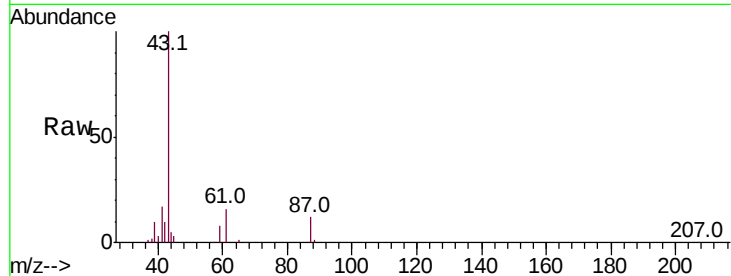


#43

Isopropyl Acetate
 Concen: 12.086 ug/l
 RT: 8.13 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN063875.D
 Acq: 5 Oct 2020 16:56

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#07

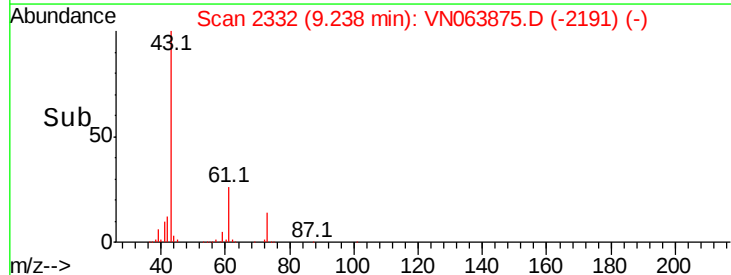
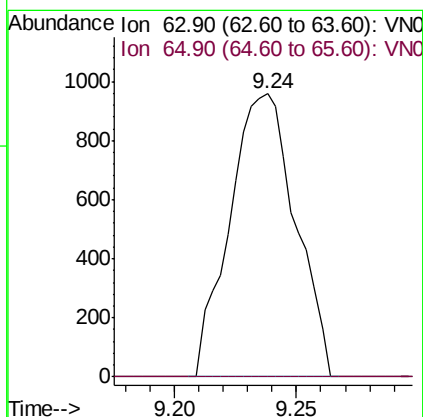
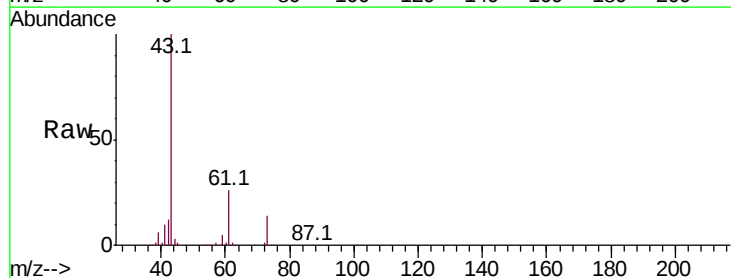
Tot Ion	43	61	87
Resp	86880		
Ratio	100	17.4	11.4
Lower		14.2	9.0
Upper		21.4	13.6

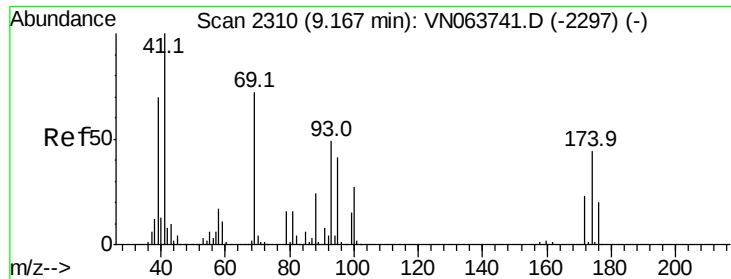


#45

1,2-Dichloropropane
 Concen: 0.528 ug/l
 RT: 9.24 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN063875.D
 Acq: 5 Oct 2020 16:56

Tgt Ion	63	65
Resp	1786	
Ratio	100	0.0
Lower		24.7
Upper		37.1#

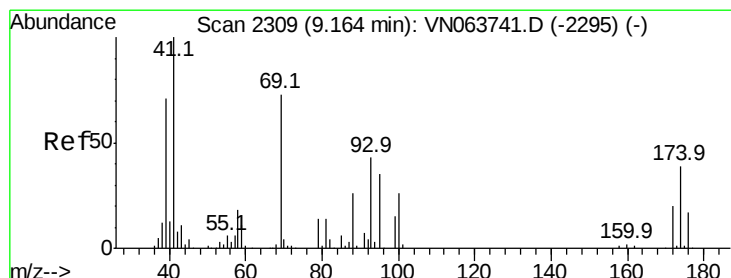
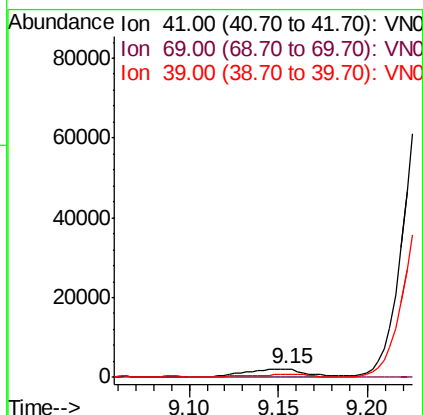
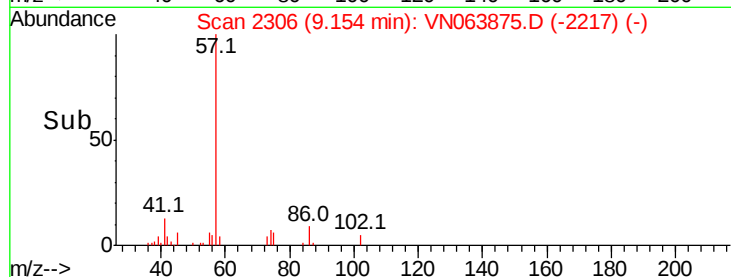
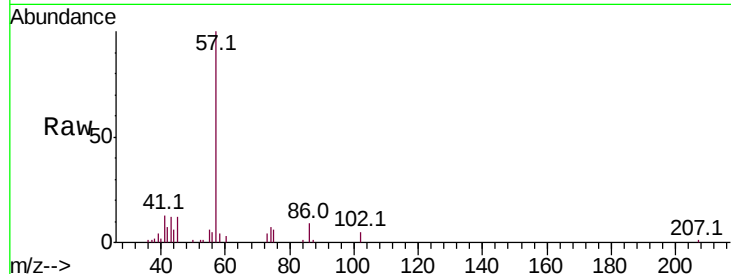




#48
Methvl methacrylate
Concen: 1.448 ug/l
RT: 9.15 min Scan# 2306
Delta R.T. -0.01 min
Lab File: VN063875.D
Acq: 5 Oct 2020 16:56

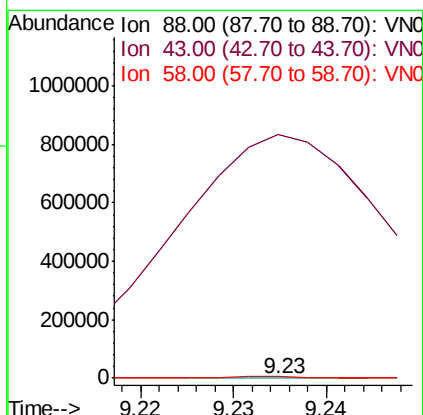
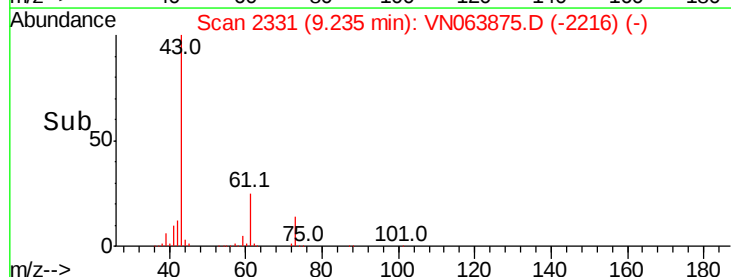
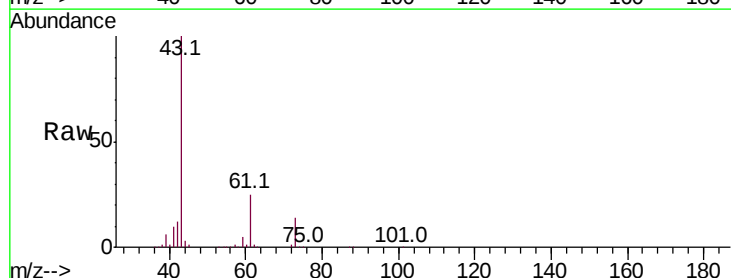
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#07

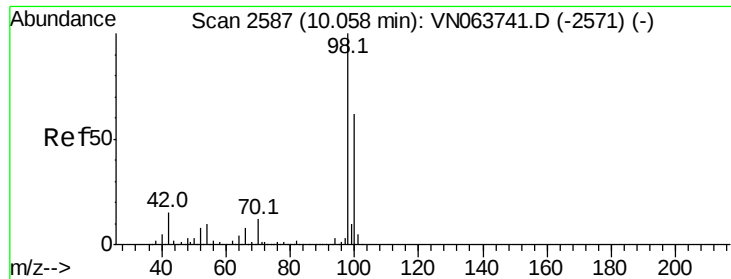
Tot Ion: 41 Resp: 5142
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#



#49
1,4-Dioxane
Concen: 1.268 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN063875.D
Acq: 5 Oct 2020 16:56

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 2371620.3 33.1 49.7#
58 11053.1 58.9 88.3#

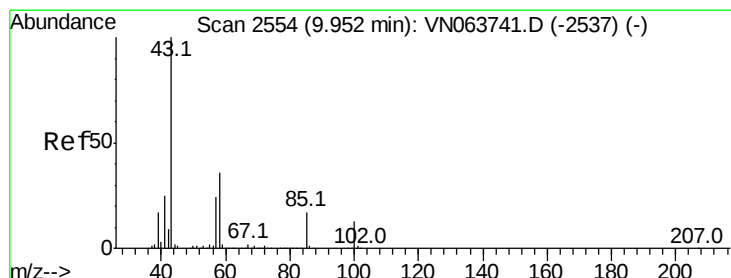
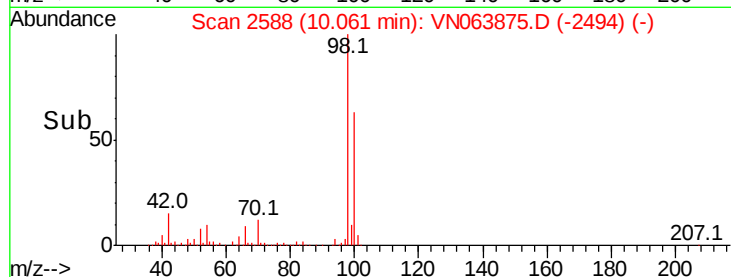
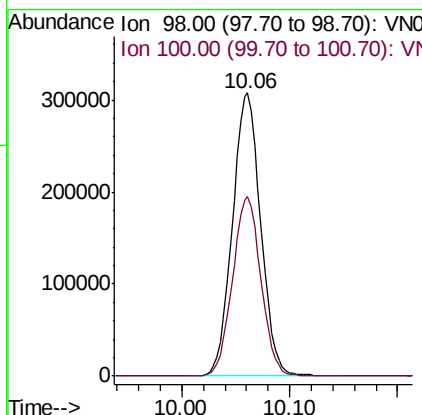
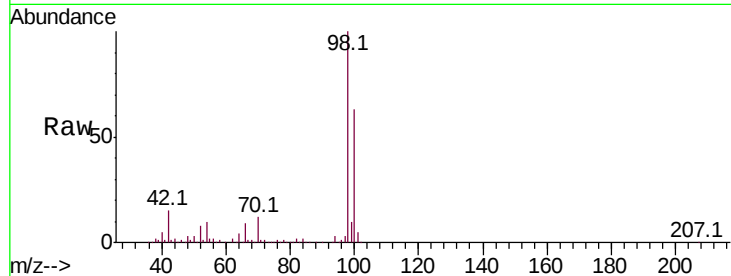




#50
Toluene-d8
Concen: 49.326 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063875.D
Acq: 5 Oct 2020 16:56

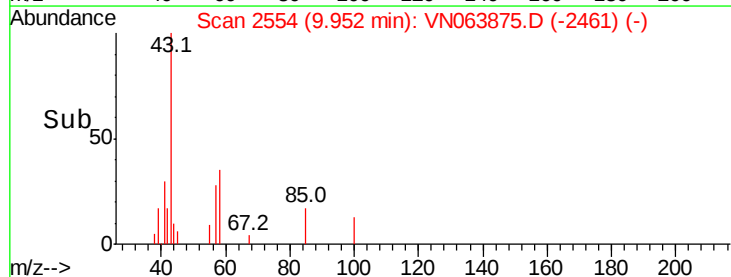
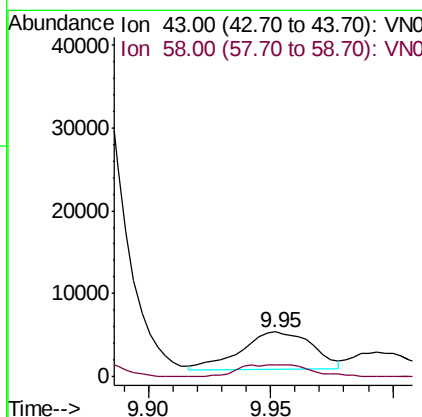
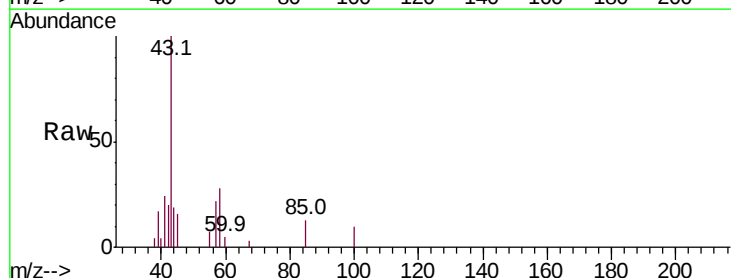
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#07

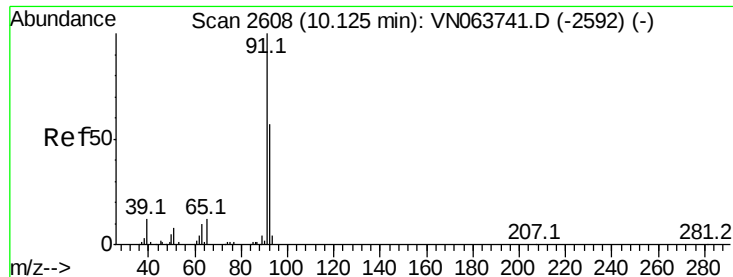
Tot Ion: 98 Resp: 561783
Ion Ratio Lower Upper
98 100
100 63.6 49.8 74.6



#51
4-Methyl-2-Pentanone
Concen: 2.184 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN063875.D
Acq: 5 Oct 2020 16:56

Tgt Ion: 43 Resp: 9212
Ion Ratio Lower Upper
43 100
58 33.5 28.4 42.6





#52

Toluene

Concen: 0.219 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

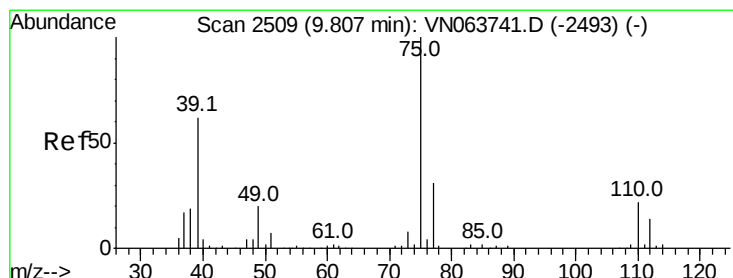
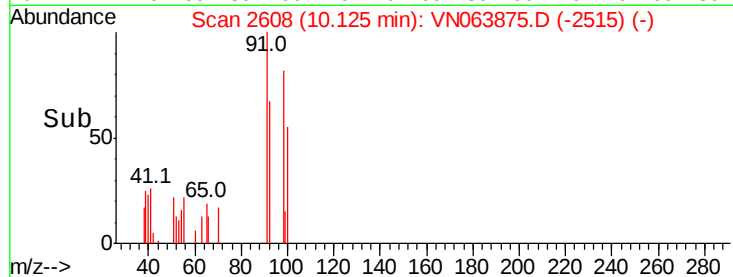
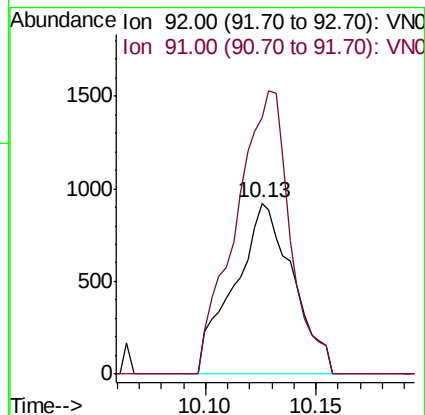
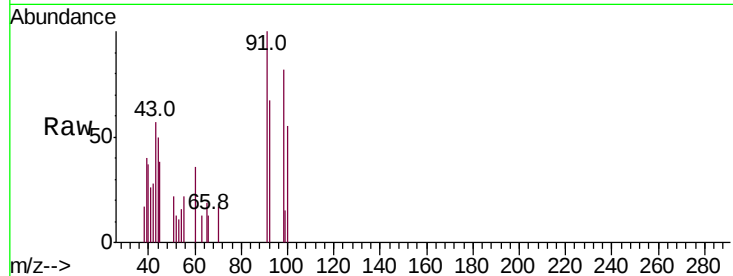
PB132063ZHE#07

Tot Ion: 92 Resp: 1701

Ion Ratio Lower Upper

92 100

91 154.4 140.6 210.8



#54

cis-1,3-Dichloropropene

Concen: 6.318 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

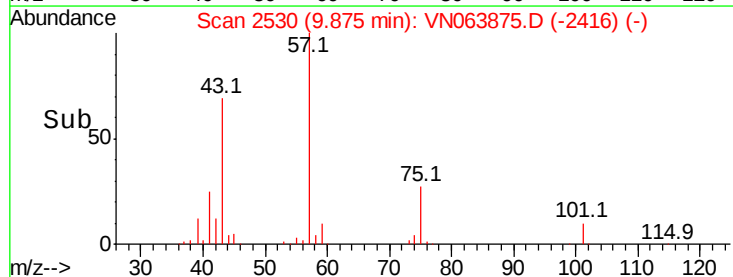
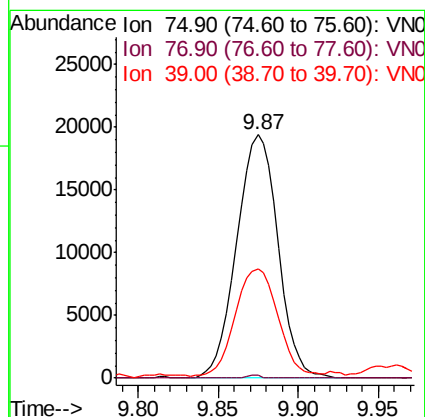
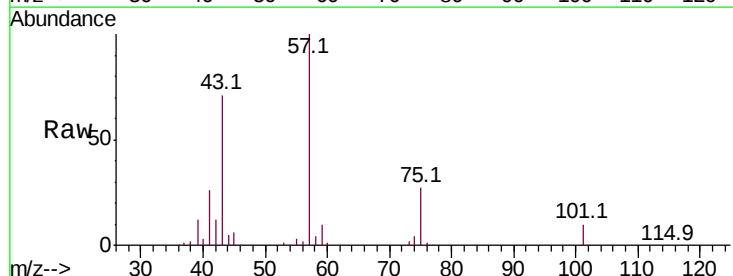
Tgt Ion: 75 Resp: 34074

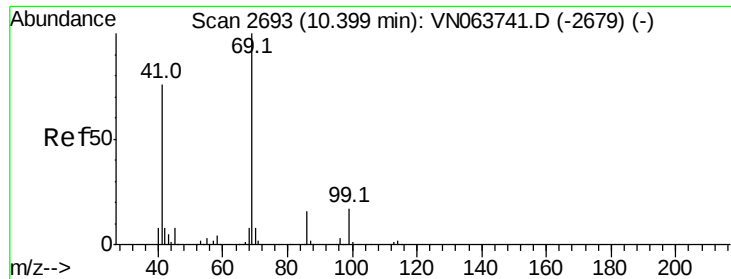
Ion Ratio Lower Upper

75 100

77 1.0 24.6 36.8#

39 44.0 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.533 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#07

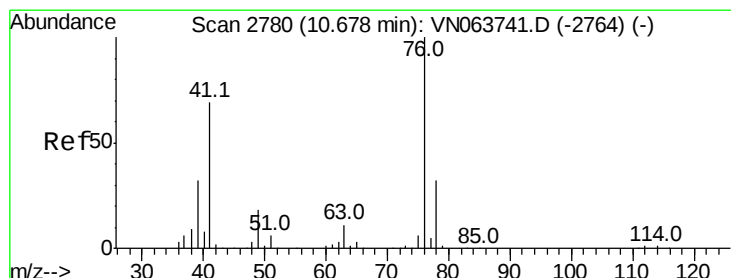
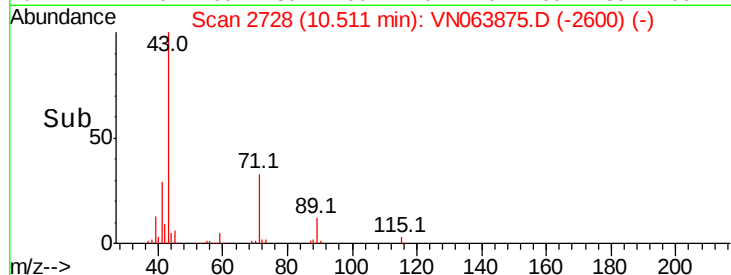
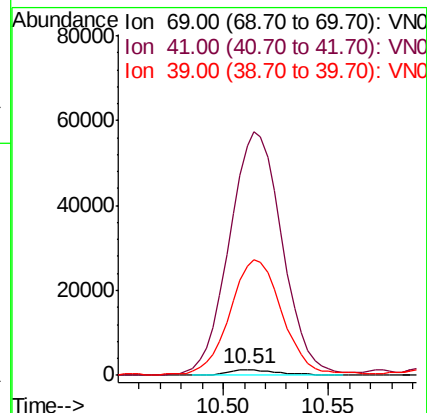
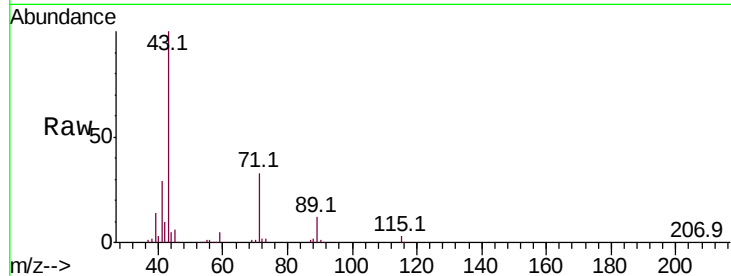
Tot Ion: 69 Resp: 2349

Ion Ratio Lower Upper

69 100

41 4263.0 61.1 91.7#

39 1975.8 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 1.156 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063875.D

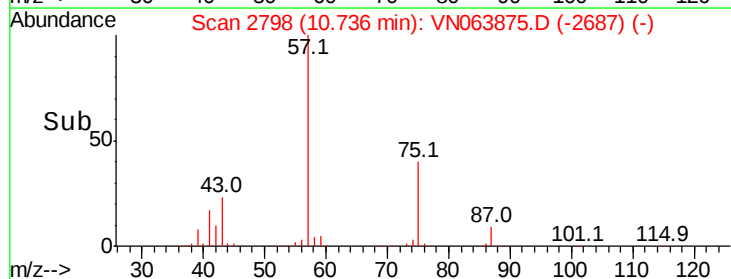
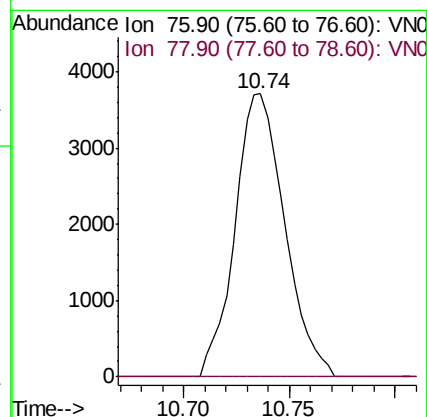
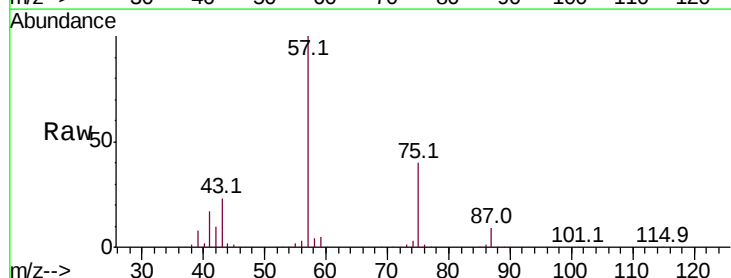
Acq: 5 Oct 2020 16:56

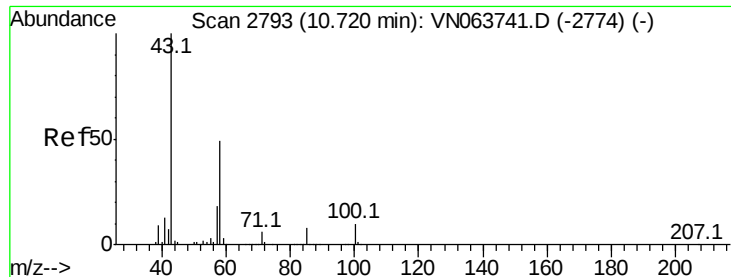
Tgt Ion: 76 Resp: 6077

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#





#59

2-Hexanone

Concen: 32.909 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

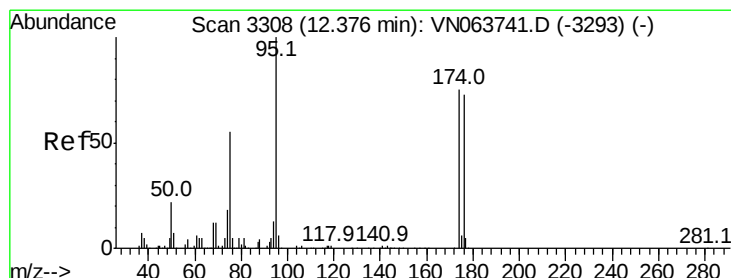
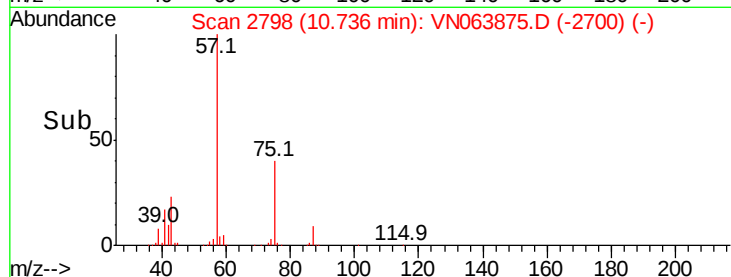
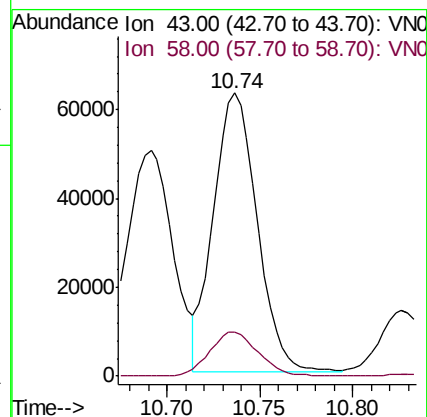
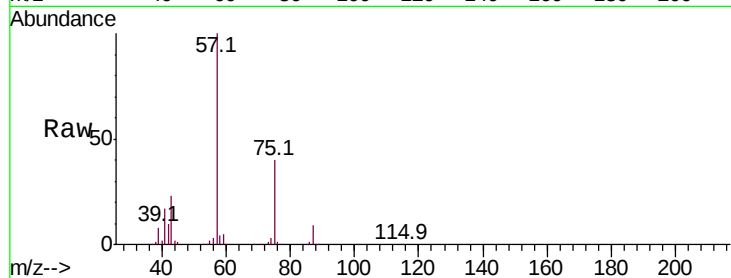
PB132063ZHE#07

Tot Ion: 43 Resp: 103129

Ion Ratio Lower Upper

43 100

58 17.5 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 49.910 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

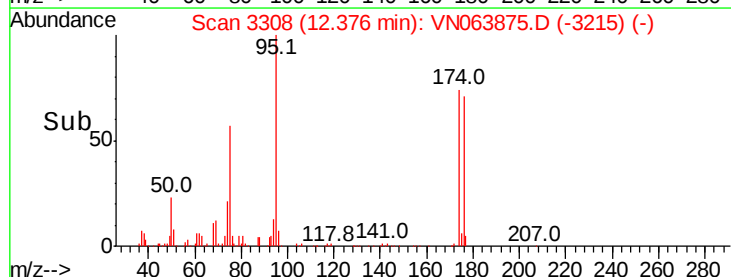
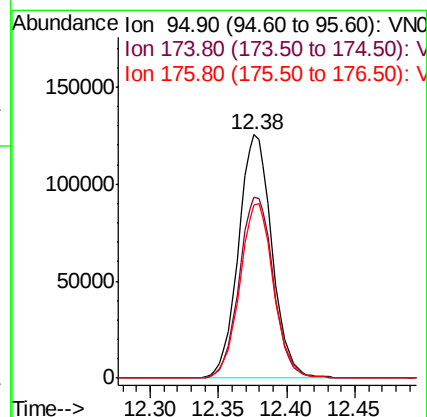
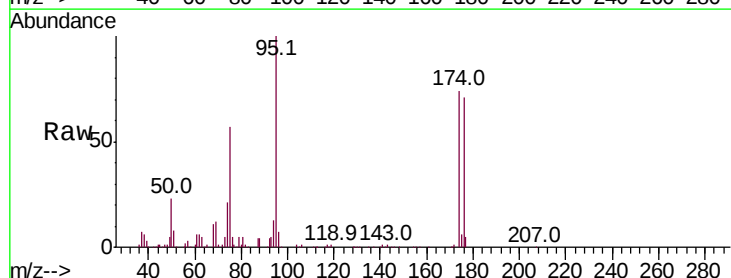
Tgt Ion: 95 Resp: 213683

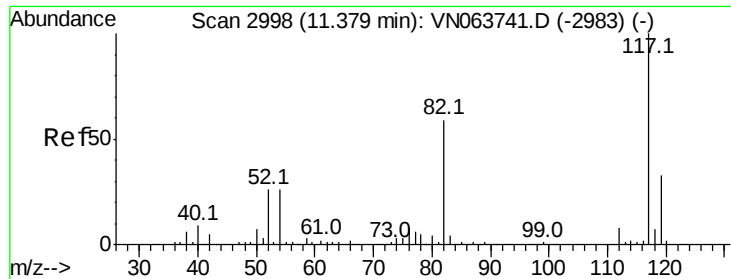
Ion Ratio Lower Upper

95 100

174 75.8 0.0 150.6

176 72.4 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: VN063875.D

Acq: 5 Oct 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#07

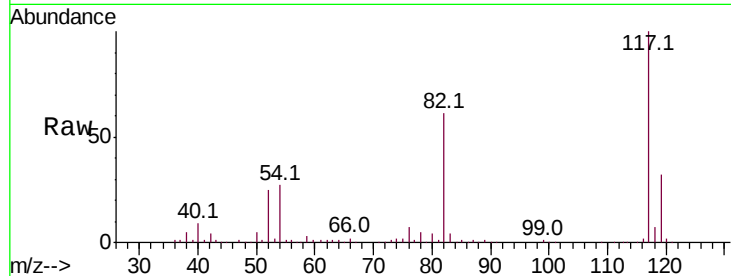
Tot Ion:117 Resp: 447571

Ion Ratio Lower Upper

117 100

82 60.8 47.4 71.2

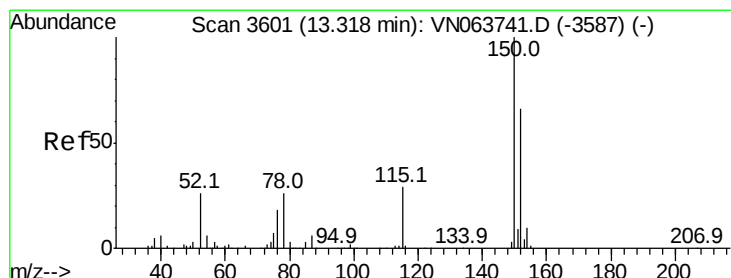
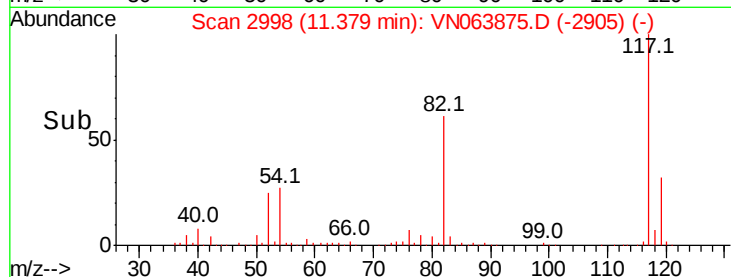
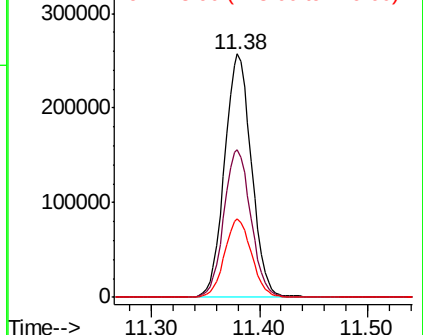
119 32.2 26.4 39.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063875.D

Acq: 5 Oct 2020 16:56

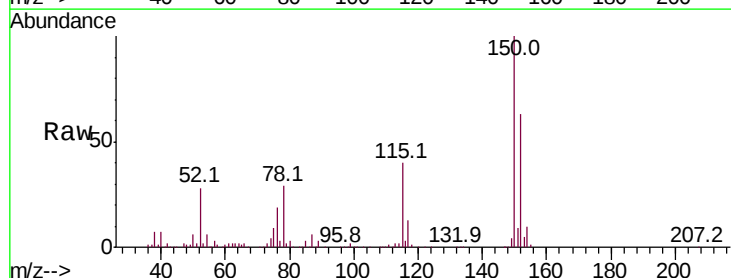
Tgt Ion:152 Resp: 174047

Ion Ratio Lower Upper

152 100

115 63.5 31.3 93.8

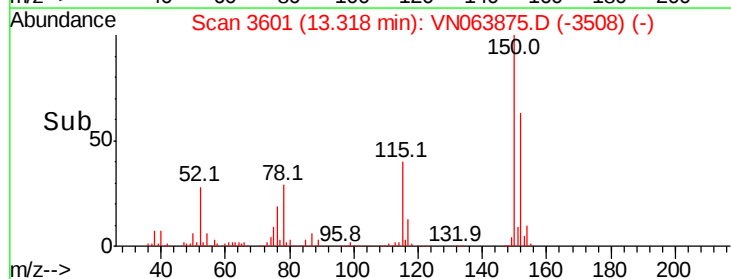
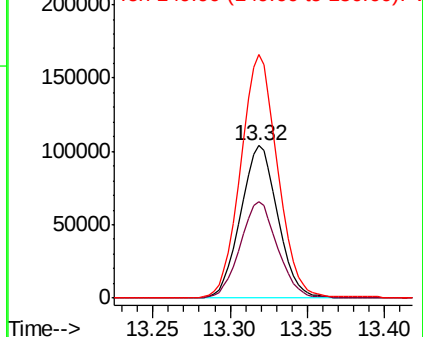
150 159.3 0.0 341.8

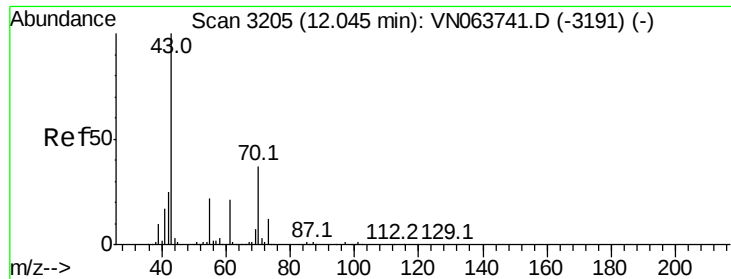


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

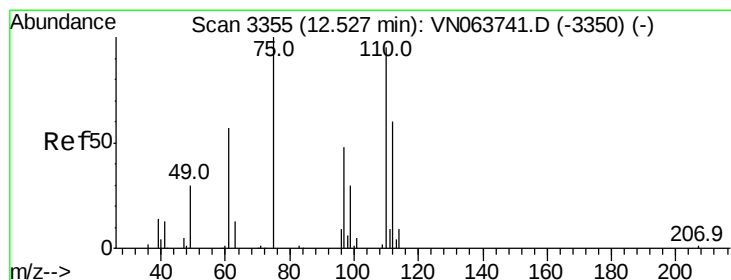
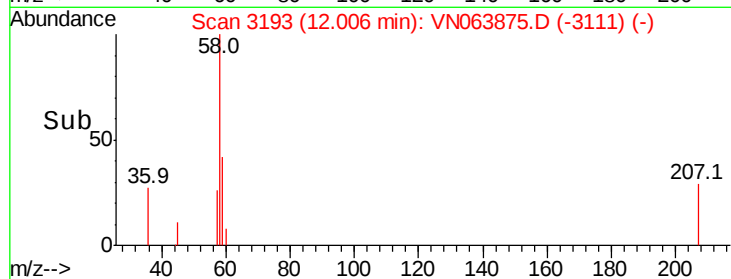
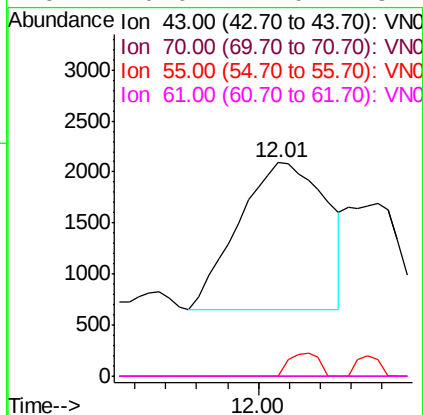
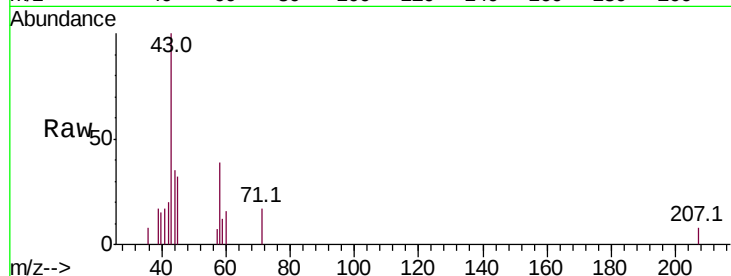




#74
N-amvl acetate
Concen: 2.677 ug/l
RT: 12.01 min Scan# 3193
Delta R.T. -0.04 min
Lab File: VN063875.D
Acq: 5 Oct 2020 16:56

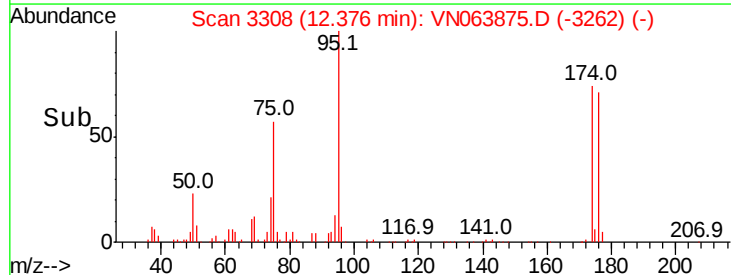
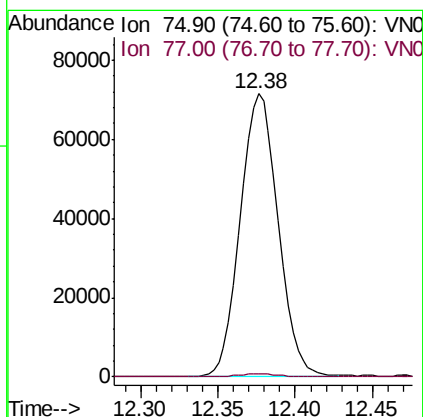
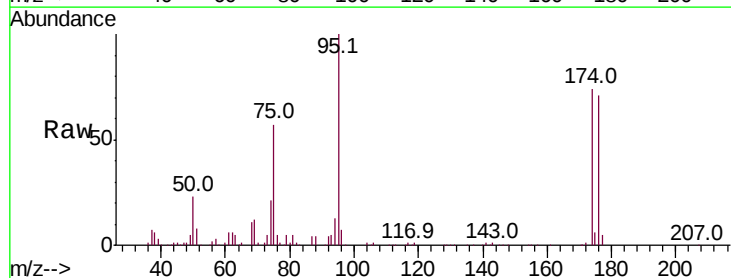
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#07

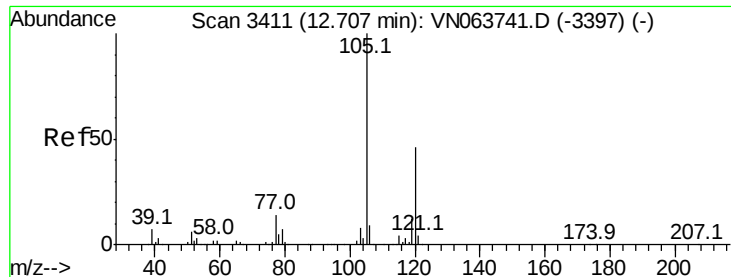
Tot Ion: 43 Resp: 2844
Ion Ratio Lower Upper
43 100
70 0.0 29.8 44.8#
55 5.5 17.9 26.9#
61 0.0 17.0 25.4#



#76
1,2,3-Trichloropropane
Concen: 31.864 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063875.D
Acq: 5 Oct 2020 16:56

Tgt Ion: 75 Resp: 122250
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

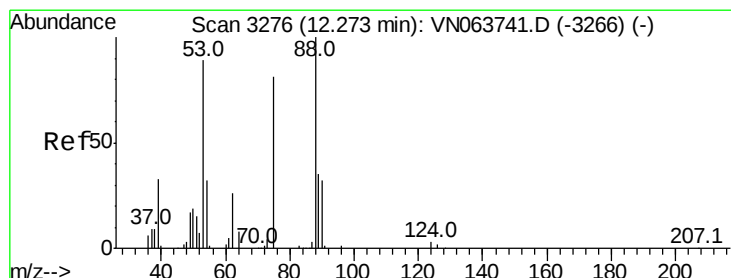
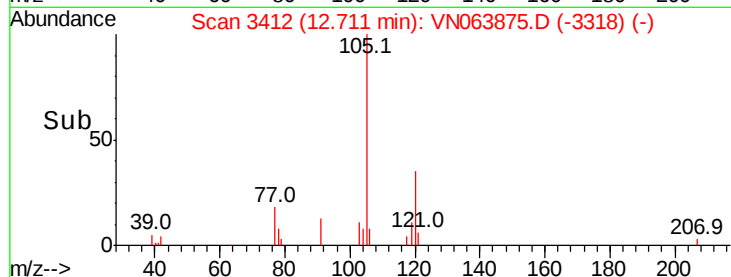
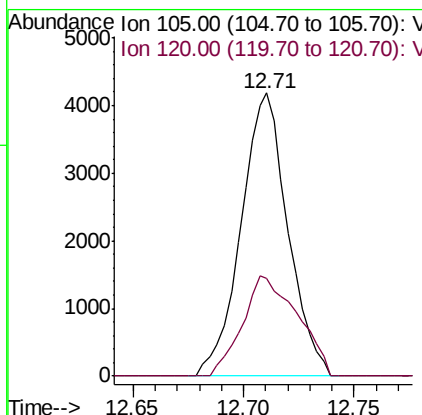
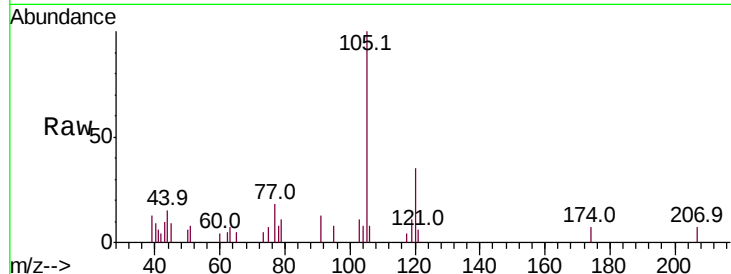




#80
 1,3,5-Trimethylbenzene
 Concen: 0.576 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN063875.D
 Acq: 5 Oct 2020 16:56

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#07

Tot Ion:105 Resp: 6136
 Ion Ratio Lower Upper
 105 100
 120 41.5 23.3 69.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 91.772 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063875.D
 Acq: 5 Oct 2020 16:56

Tgt Ion: 75 Resp: 122250
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.2 132.2#
 89 0.0 36.0 54.0#

