

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102120\
 Data File : VN064242.D
 Acq On : 22 Oct 2020 3:02
 Operator : JC/MD
 Sample : PB132513ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#07

Quant Time: Oct 22 03:58:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 21 12:48:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	273972	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	474552	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	489998	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	222617	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	208898	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
35) Dibromofluoromethane	7.55	113	157220	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	10.06	98	603283	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
62) 4-Bromofluorobenzene	12.38	95	268750	57.92	ug/l	0.00
Spiked Amount			Recovery	=	115.84%	

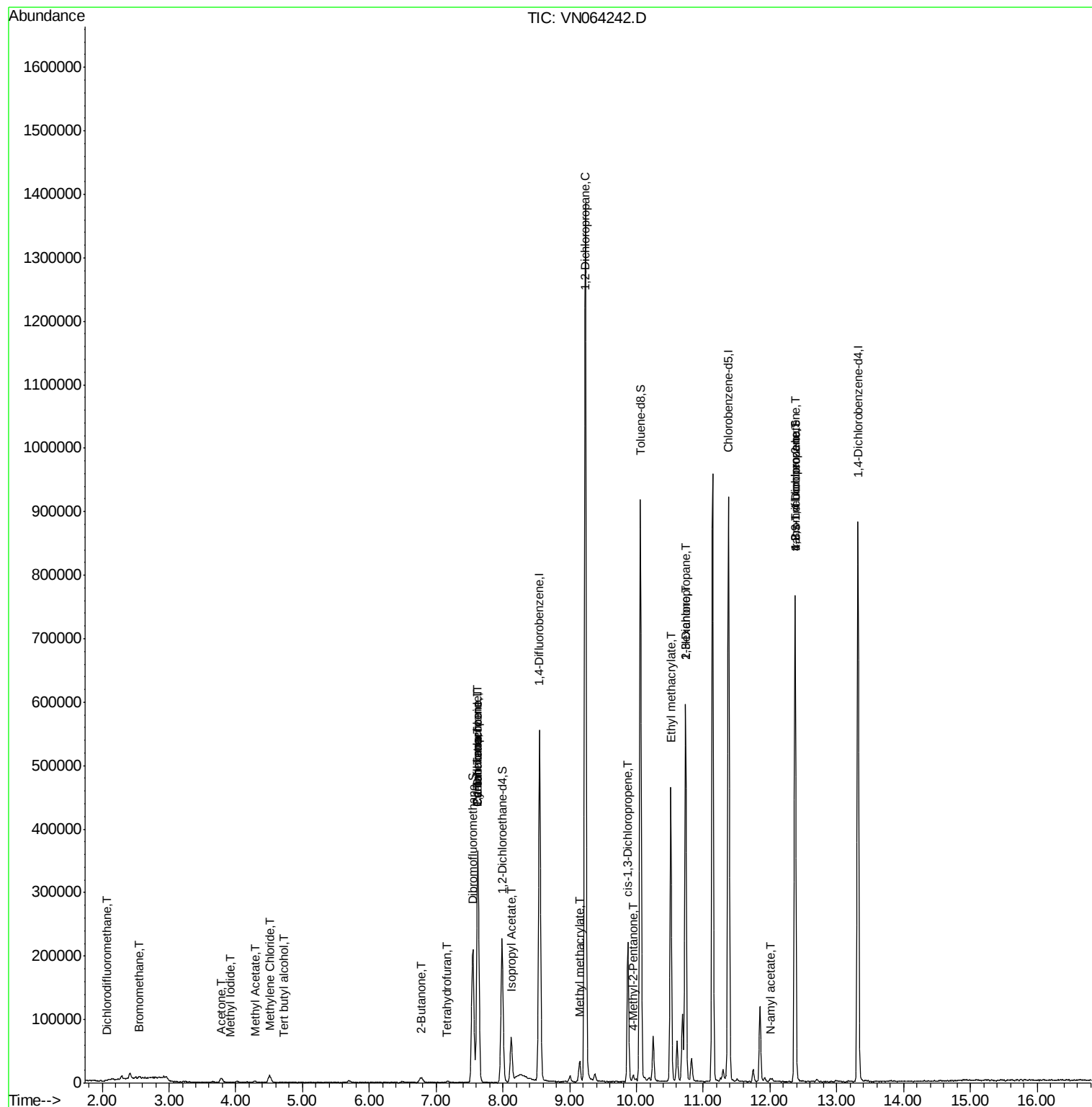
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.07	85	61	0.803	ug/l #	41
5) Bromomethane	2.54	94	611	0.299	ug/l #	62
10) Methyl Iodide	3.91	142	993	0.262	ug/l #	52
11) Tert butyl alcohol	4.72	59	243	0.446	ug/l #	70
16) Acetone	3.78	43	10463	8.988	ug/l	98
18) Methyl Acetate	4.28	43	3355	1.131	ug/l #	72
20) Methylene Chloride	4.50	84	4748	1.530	ug/l #	91
25) 2-Butanone	6.79	43	2767	1.496	ug/l	92
29) Tetrahydrofuran	7.18	42	891	0.805	ug/l #	82
31) Cyclohexane	7.62	56	6963	1.444	ug/l #	42
36) 1,1-Dichloropropene	7.63	75	23762	5.023	ug/l #	49
38) Carbon Tetrachloride	7.62	117	30395	5.647	ug/l #	15
43) Isopropyl Acetate	8.13	43	90398	11.292	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	1673	0.480	ug/l #	45
48) Methyl methacrylate	9.14	41	5240	1.253	ug/l #	17
51) 4-Methyl-2-Pentanone	9.96	43	6810	1.592	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	35906	5.935	ug/l #	59
56) Ethyl methacrylate	10.51	69	1110	0.227	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5960	1.087	ug/l #	42
59) 2-Hexanone	10.74	43	97822	31.307	ug/l #	53
74) N-amyl acetate	12.00	43	4116	0.561	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	149399	31.834	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	149399	80.371	ug/l #	9

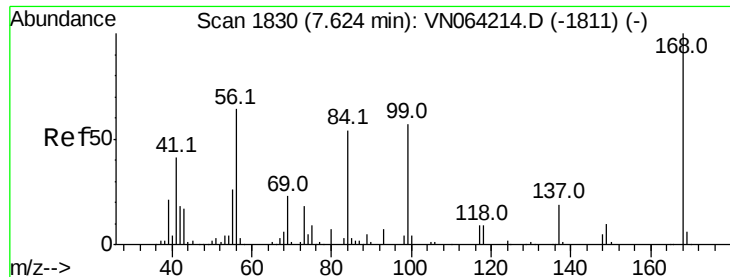
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 22 03:58:48 2020
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Quant Title : SW846 8260
QLast Update : Wed Oct 21 12:48:40 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: VN064242.D

Acq: 22 Oct 2020 3:02

Instrument :

MSVOA_N

ClientSampleId :

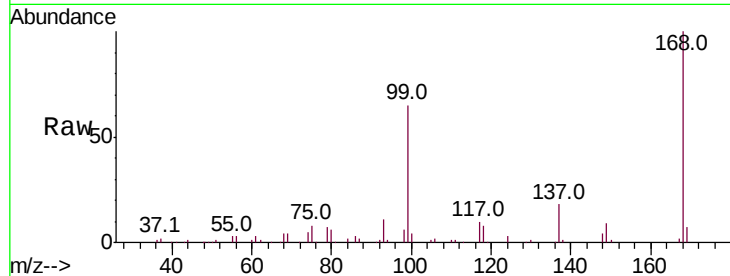
PB132513ZHE#07

Tot Ion:168 Resp: 273972

Ion Ratio Lower Upper

168 100

99 65.1 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): VN064214.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN064214.D (-1811) (-)

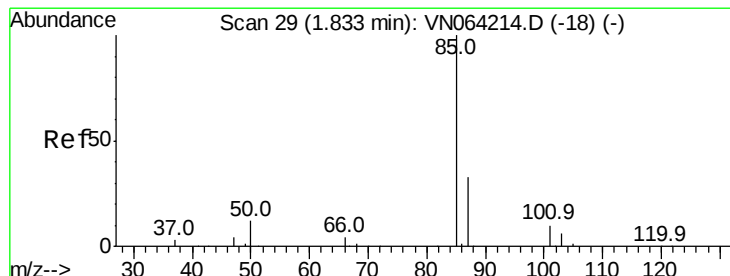
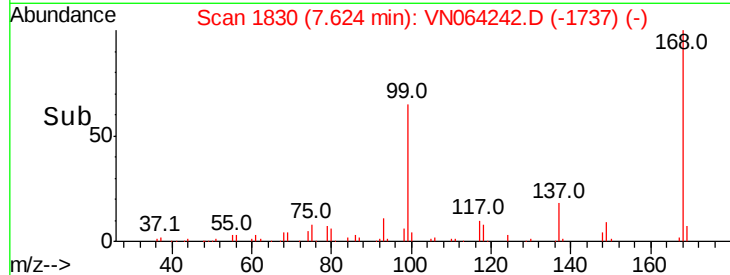
7.62

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.803 ug/l

RT: 2.07 min Scan# 102

Delta R.T. 0.23 min

Lab File: VN064242.D

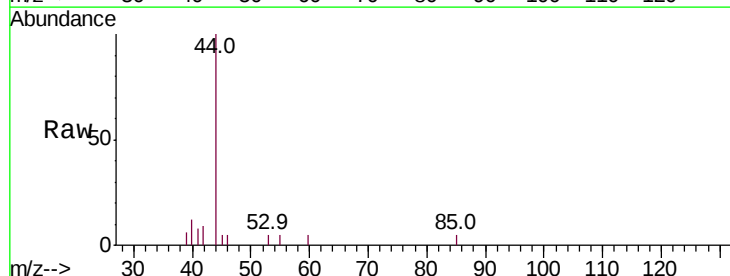
Acq: 22 Oct 2020 3:02

Tgt Ion: 85 Resp: 61

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VN064214.D (-18) (-)

Ion 86.90 (86.60 to 87.60): VN064214.D (-18) (-)

2.07

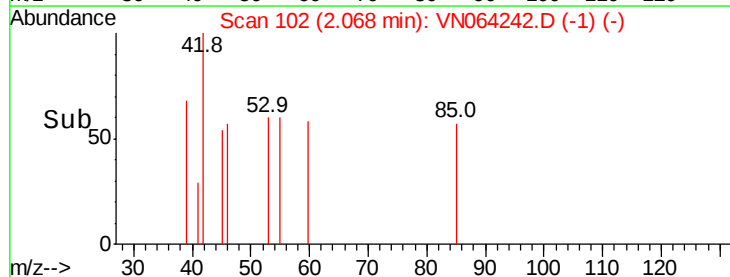
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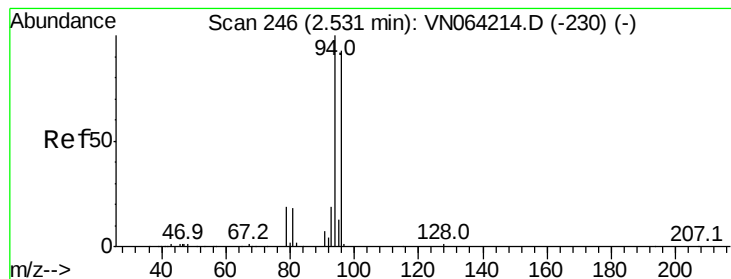
100

50

0

Time--> 2.06 2.07 2.08





#5

Bromomethane

Concen: 0.299 ug/l

RT: 2.54 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN064242.D

Acq: 22 Oct 2020 3:02

Instrument :

MSVOA_N

ClientSampleId :

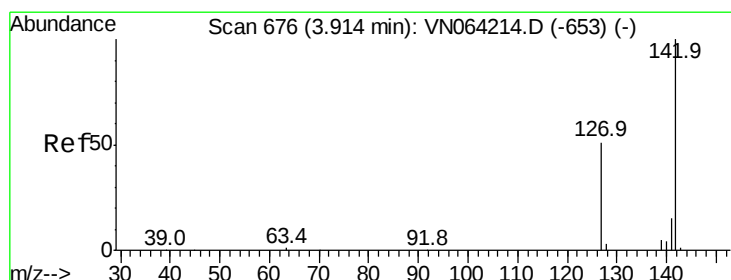
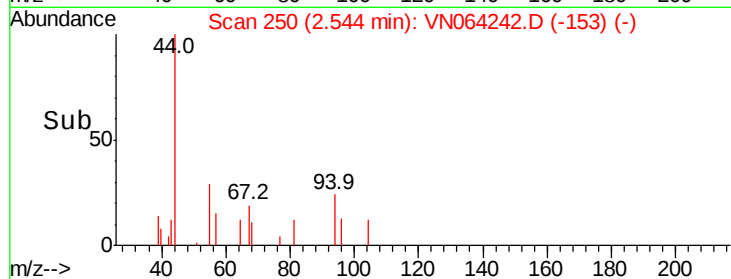
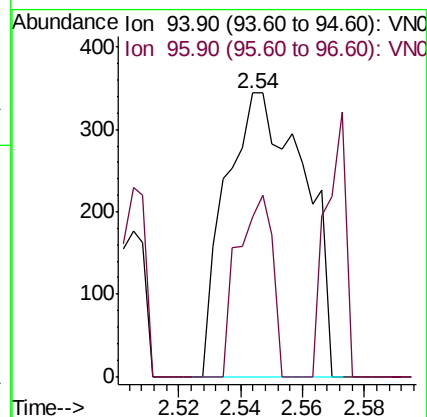
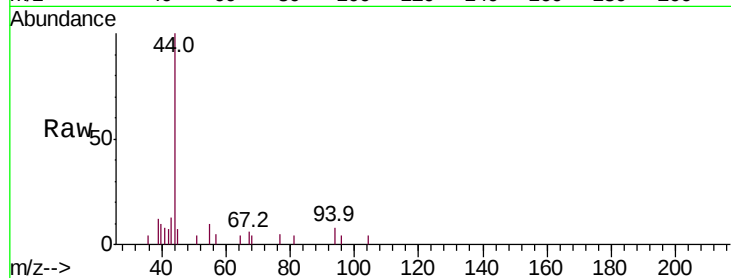
PB132513ZHE#07

Tot Ion: 94 Resp: 611

Ion Ratio Lower Upper

94 100

96 56.4 74.2 111.4#



#10

Methyl Iodide

Concen: 0.262 ug/l

RT: 3.91 min Scan# 675

Delta R.T. -0.00 min

Lab File: VN064242.D

Acq: 22 Oct 2020 3:02

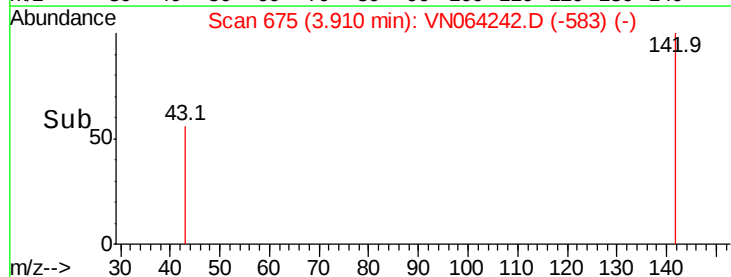
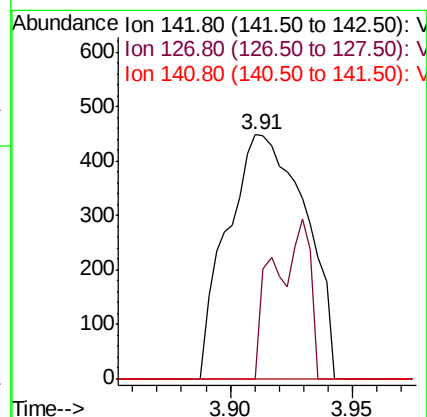
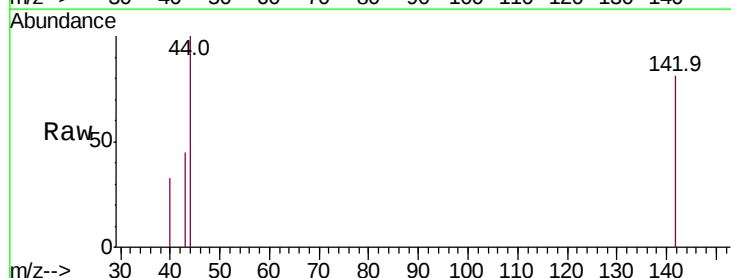
Tgt Ion: 142 Resp: 993

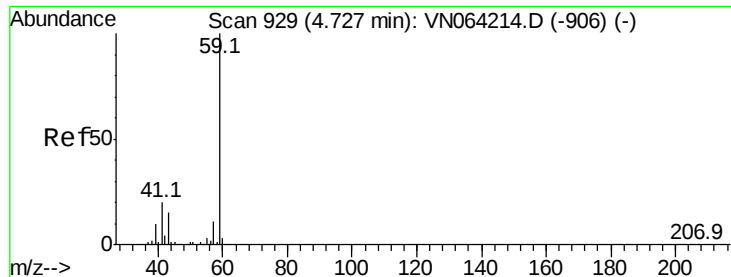
Ion Ratio Lower Upper

142 100

127 15.2 41.0 61.6#

141 0.0 11.3 16.9#





#11

Tert butyl alcohol

Concen: 0.446 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN064242.D

Acq: 22 Oct 2020 3:02

Instrument :

MSVOA_N

ClientSampleId :

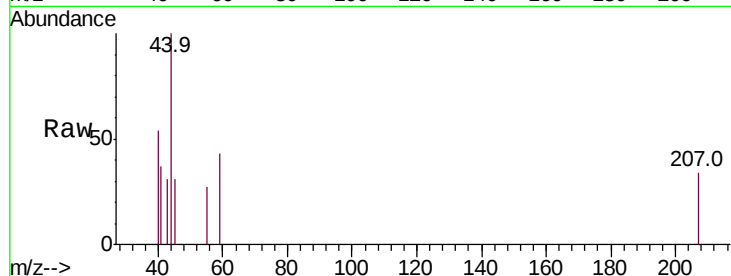
PB132513ZHE#07

Tot Ion: 59 Resp: 243

Ion Ratio Lower Upper

59 100

57 0.0 9.2 13.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.72

250

200

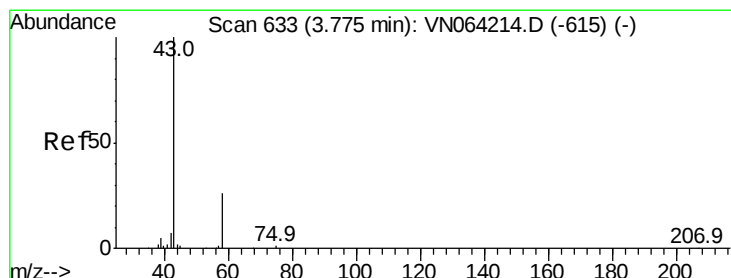
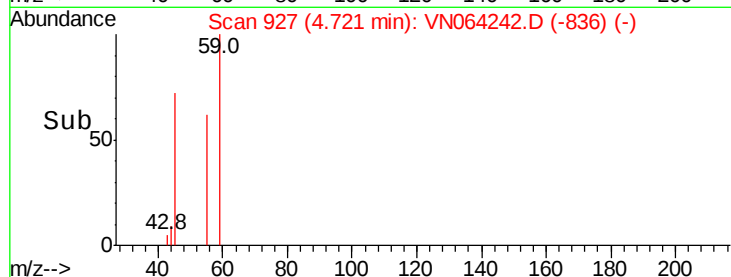
150

100

50

0

Time-->



#16

Acetone

Concen: 8.988 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064242.D

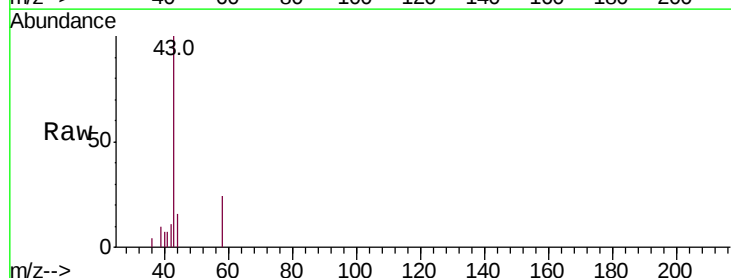
Acq: 22 Oct 2020 3:02

Tgt Ion: 43 Resp: 10463

Ion Ratio Lower Upper

43 100

58 25.0 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

5000

4000

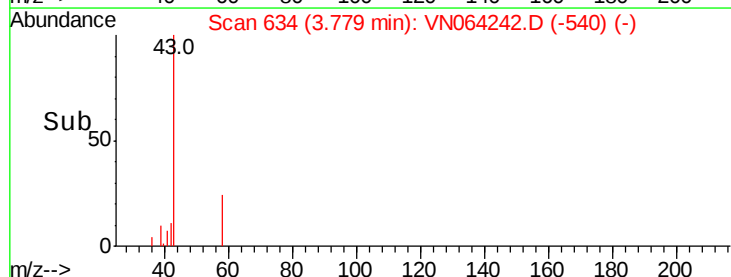
3000

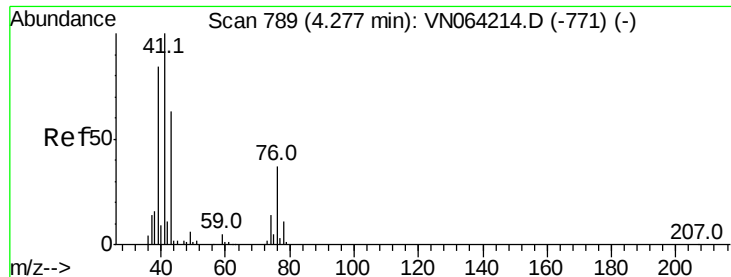
2000

1000

0

Time-->

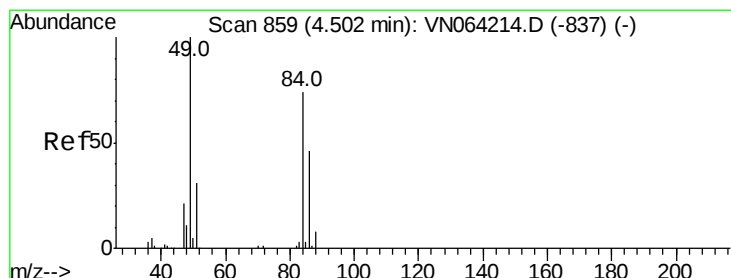
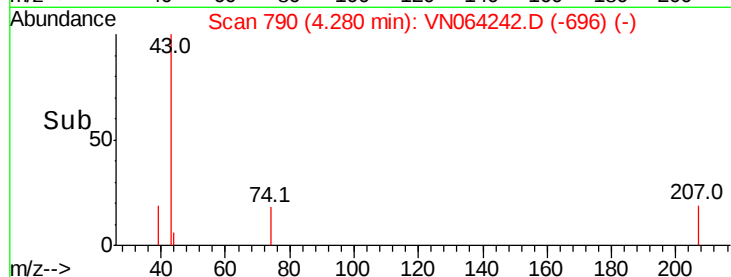
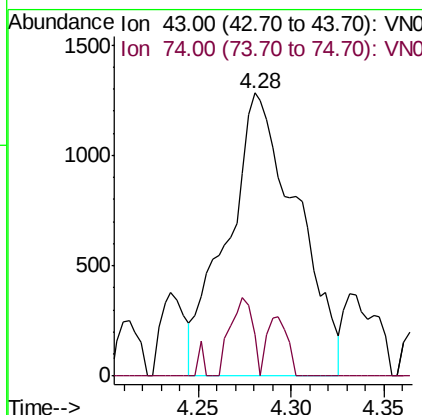
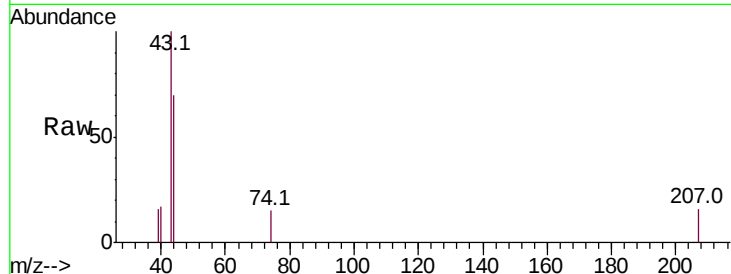




#18
Methyl Acetate
Concen: 1.131 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN064242.D
Acq: 22 Oct 2020 3:02

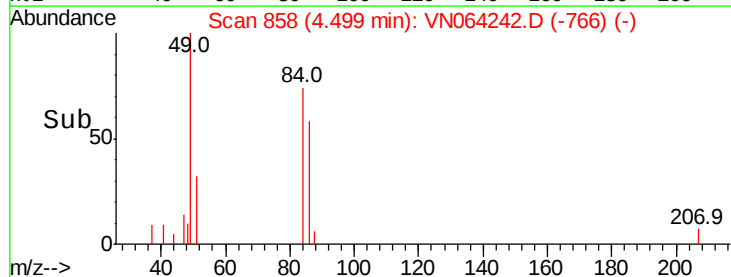
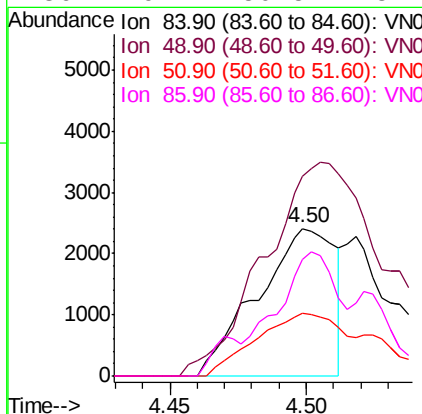
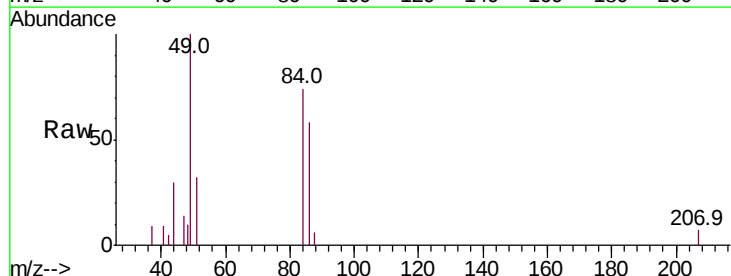
Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#07

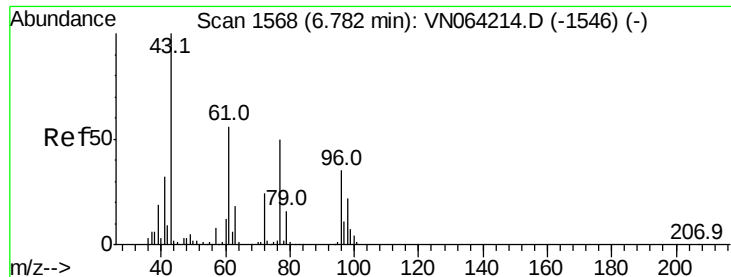
Tot Ion: 43 Resp: 3355
Ion Ratio Lower Upper
43 100
74 8.9 17.9 26.9#



#20
Methylene Chloride
Concen: 1.530 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.00 min
Lab File: VN064242.D
Acq: 22 Oct 2020 3:02

Tgt Ion: 84 Resp: 4748
Ion Ratio Lower Upper
84 100
49 128.3 108.5 162.7
51 42.9 33.8 50.8
86 79.4 50.5 75.7#





#25

2-Butanone

Concen: 1.496 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN064242.D

Acq: 22 Oct 2020 3:02

Instrument :

MSVOA_N

ClientSampleId :

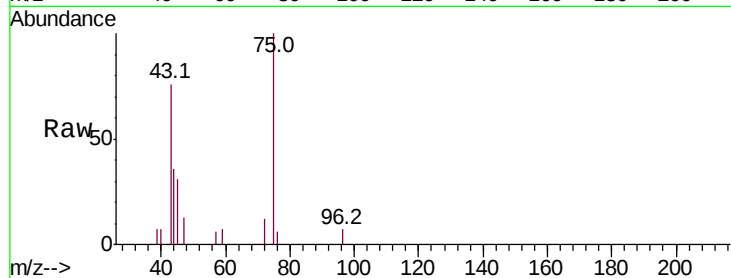
PB132513ZHE#07

Tot Ion: 43 Resp: 2767

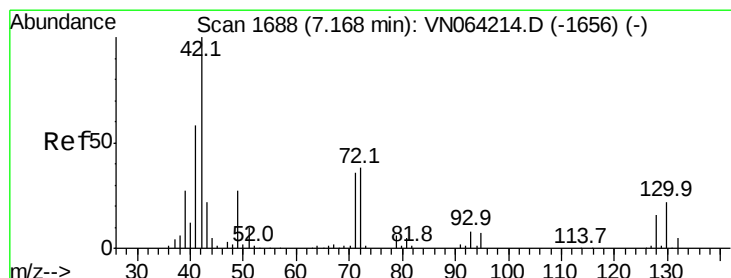
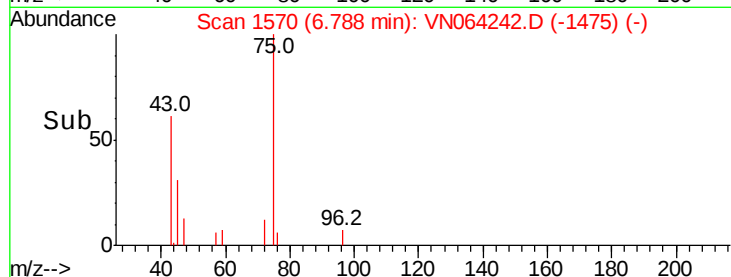
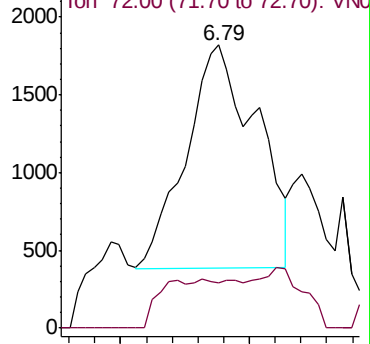
Ion Ratio Lower Upper

43 100

72 20.3 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VN064214.D (-1546) (-)



#29

Tetrahydrofuran

Concen: 0.805 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN064242.D

Acq: 22 Oct 2020 3:02

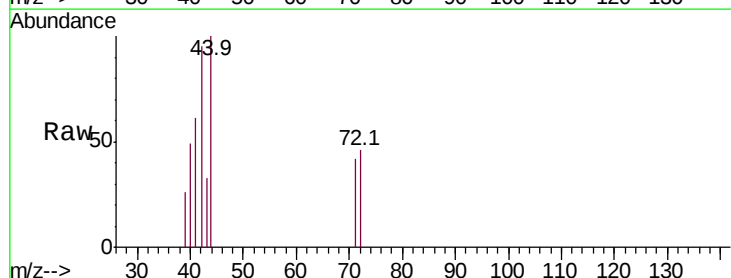
Tgt Ion: 42 Resp: 891

Ion Ratio Lower Upper

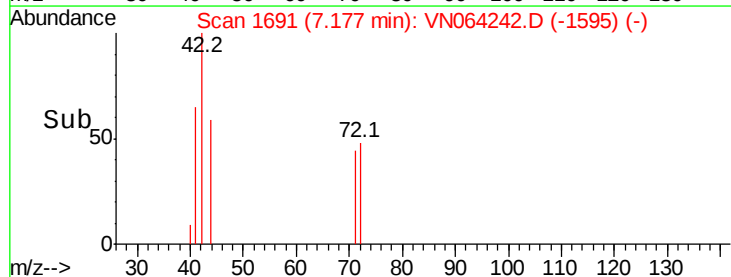
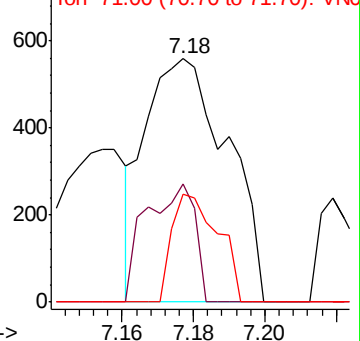
42 100

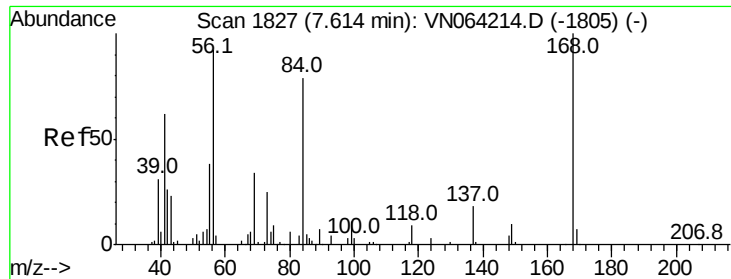
72 28.7 30.8 46.2#

71 24.9 29.0 43.6#



Abundance Ion 42.00 (41.70 to 42.70): VN064214.D (-1656) (-)

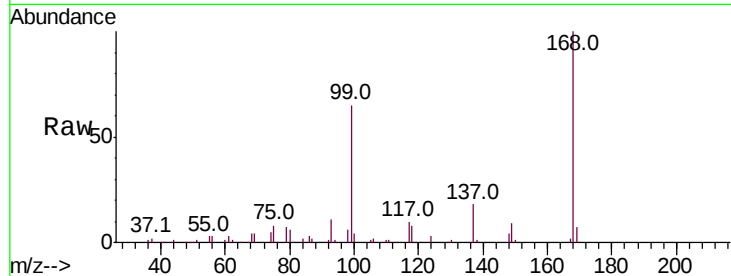




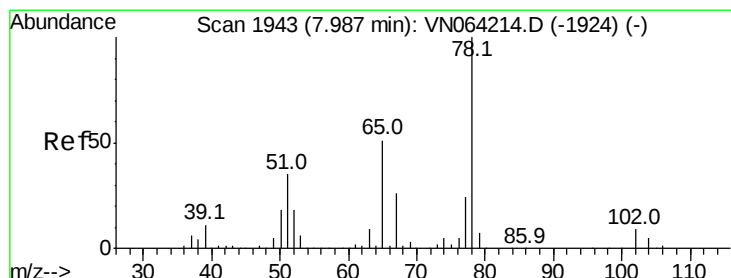
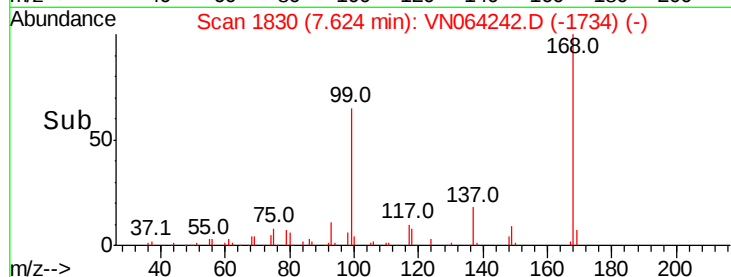
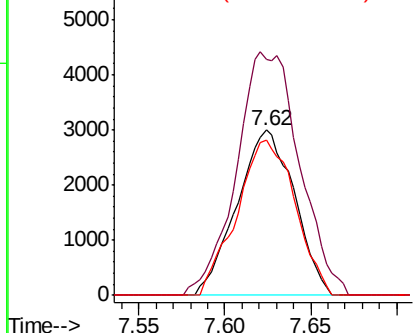
#31
Cyclohexane
Concen: 1.444 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064242.D
Acq: 22 Oct 2020 3:02

Instrument :
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ClientSampleId :
PB132513ZHE#07

Tot Ion: 56 Resp: 6963
Ion Ratio Lower Upper
56 100
69 138.1 29.8 44.6#
84 94.0 68.1 102.1

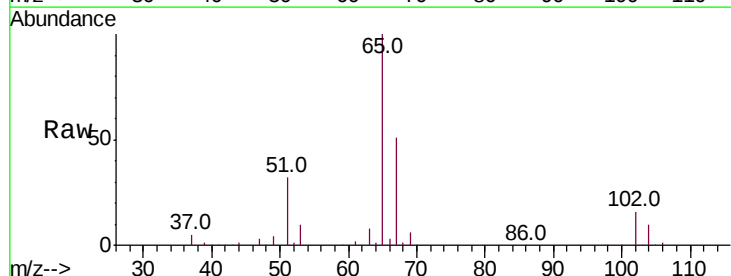


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

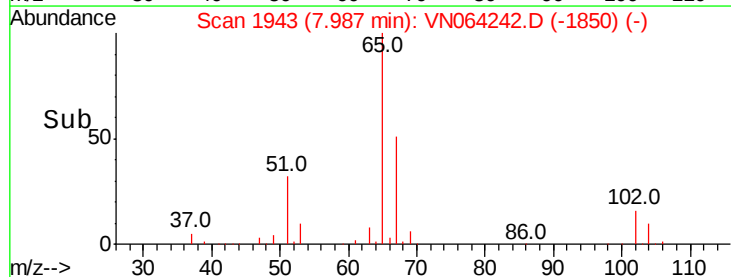
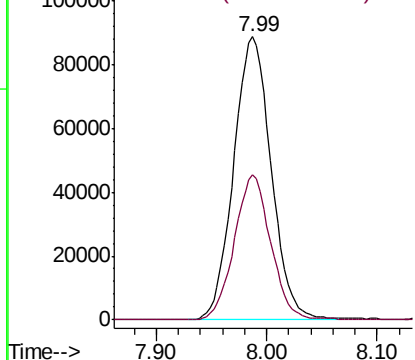


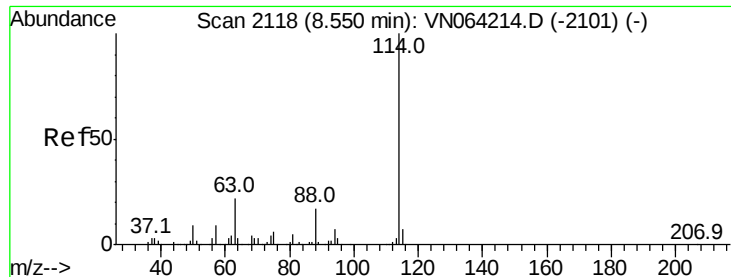
#33
1,2-Dichloroethane-d4
Concen: 51.343 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN064242.D
Acq: 22 Oct 2020 3:02

Tgt Ion: 65 Resp: 208898
Ion Ratio Lower Upper
65 100
67 49.5 0.0 100.2



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

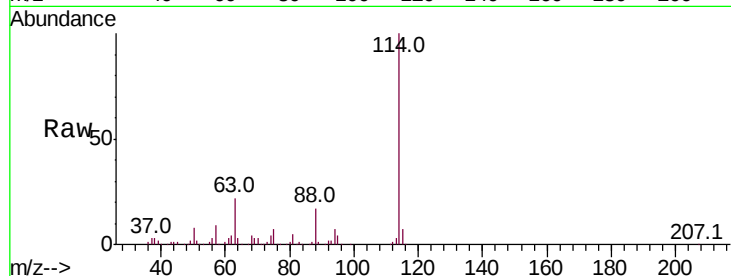




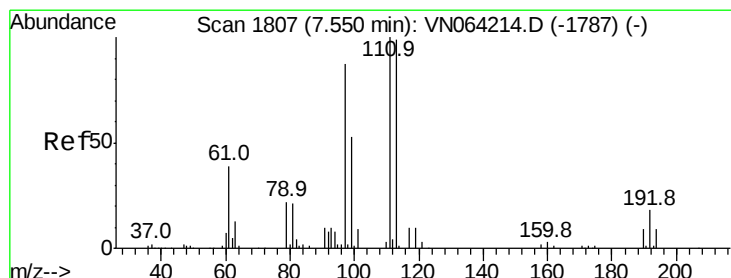
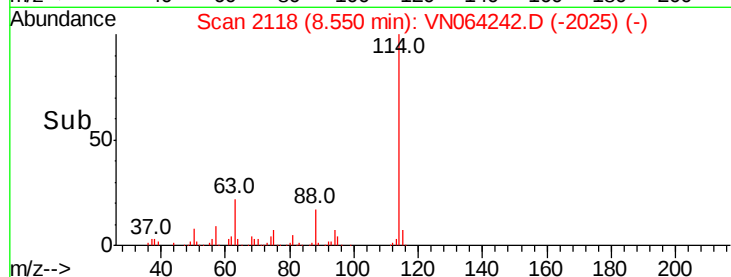
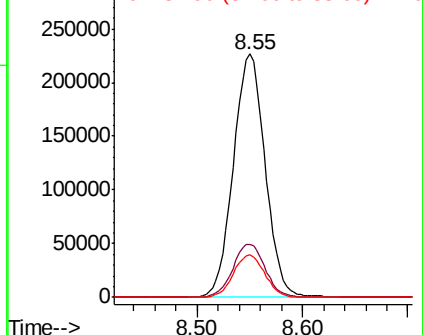
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064242.D
 Acq: 22 Oct 2020 3:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#07

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.0
88	17.3	0.0	34.2

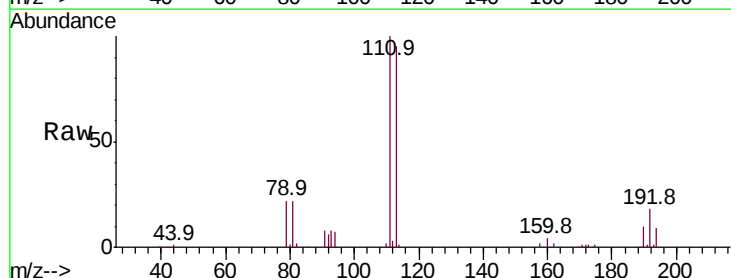


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

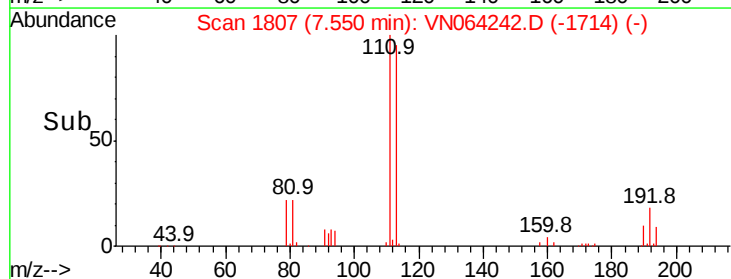
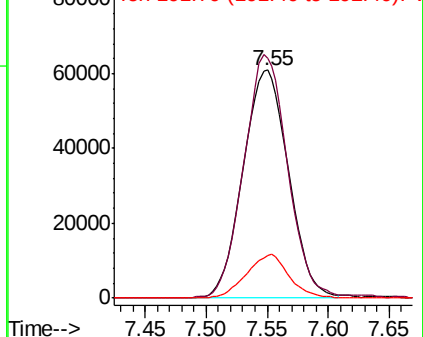


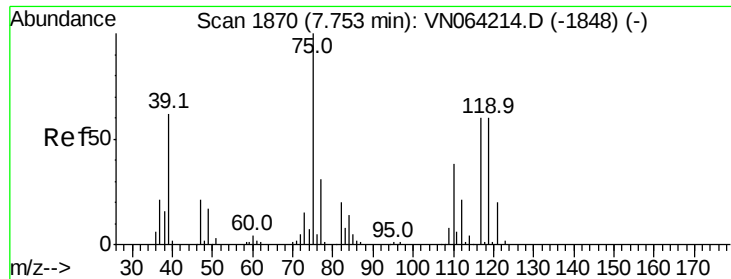
#35
 Dibromofluoromethane
 Concen: 49.831 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN064242.D
 Acq: 22 Oct 2020 3:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	84.2	126.2
192	17.9	15.2	22.8



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

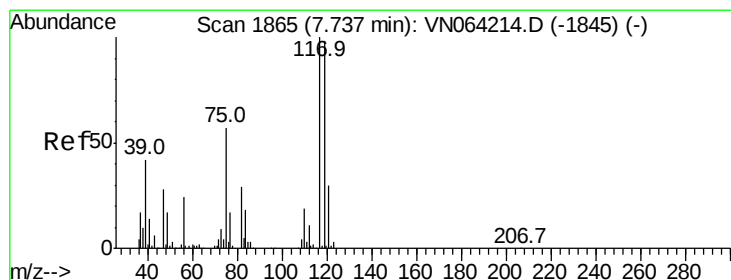
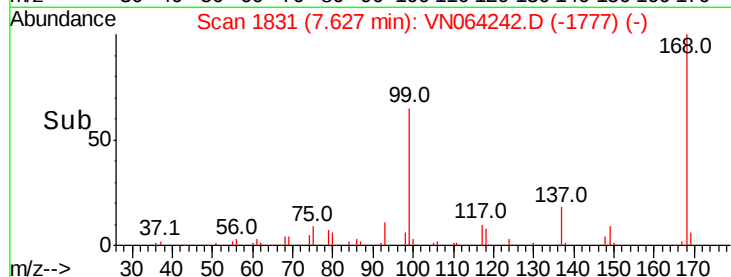
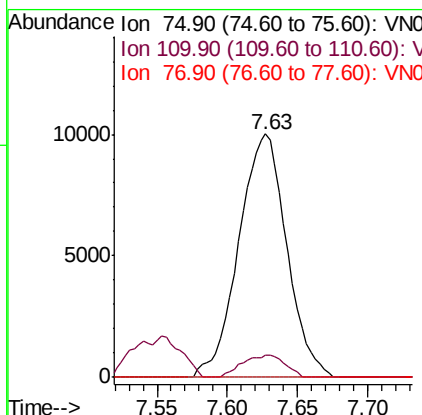
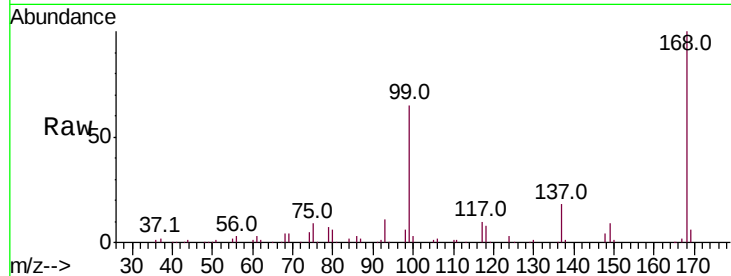




#36
 1,1-Dichloropropene
 Concen: 5.023 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064242.D
 Acq: 22 Oct 2020 3:02

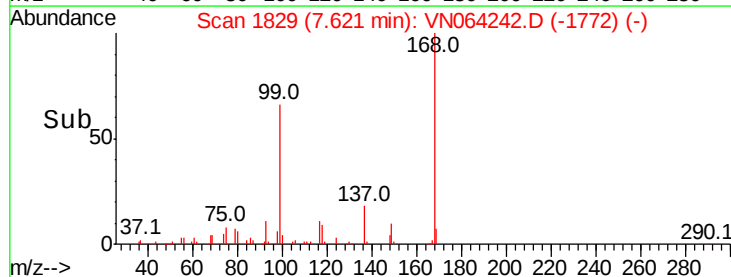
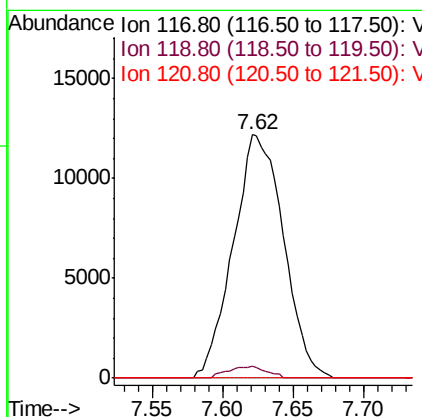
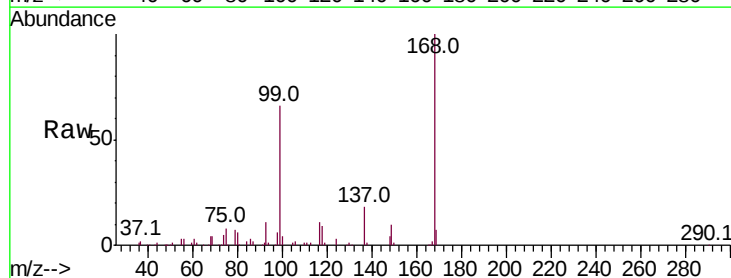
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#07

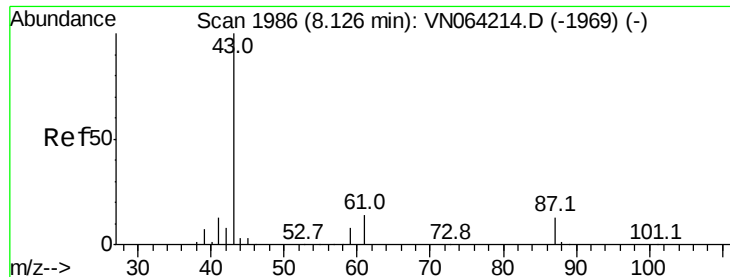
Tot Ion: 75 Resp: 23762
 Ion Ratio Lower Upper
 75 100
 110 8.1 17.2 51.6#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.647 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN064242.D
 Acq: 22 Oct 2020 3:02

Tgt Ion: 117 Resp: 30395
 Ion Ratio Lower Upper
 117 100
 119 4.7 78.5 117.7#
 121 0.0 24.3 36.5#



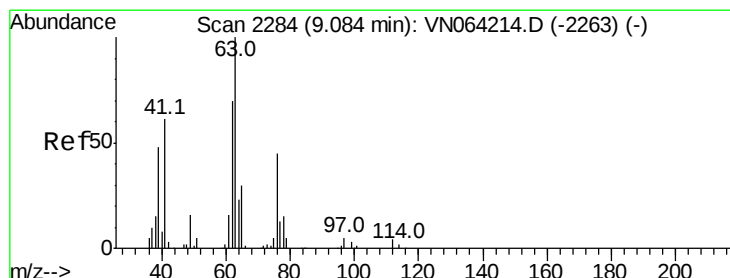
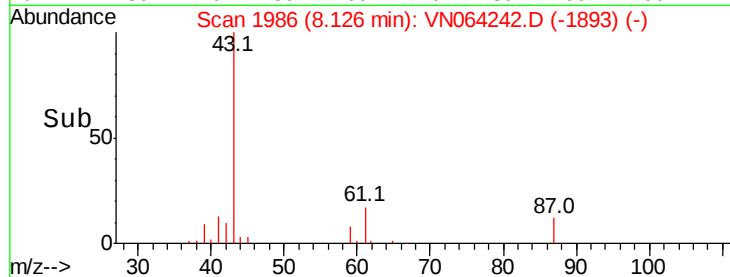
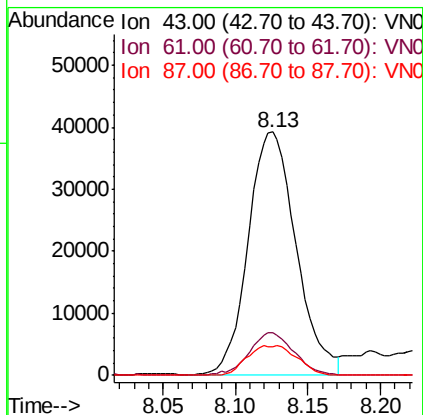
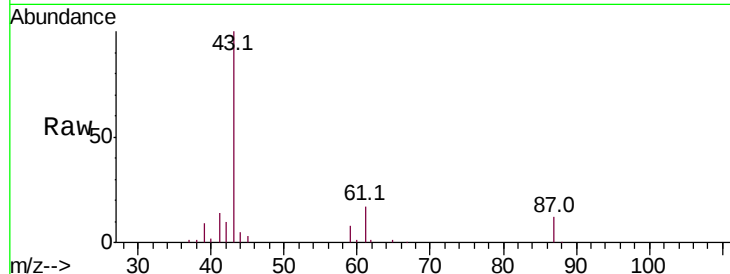


#43

Isopropyl Acetate
 Concen: 11.292 ug/l
 RT: 8.13 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VN064242.D
 Acq: 22 Oct 2020 3:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#07

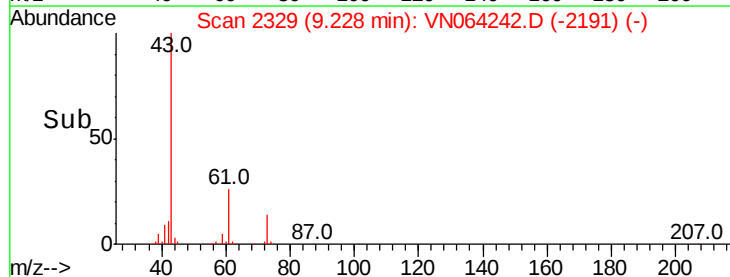
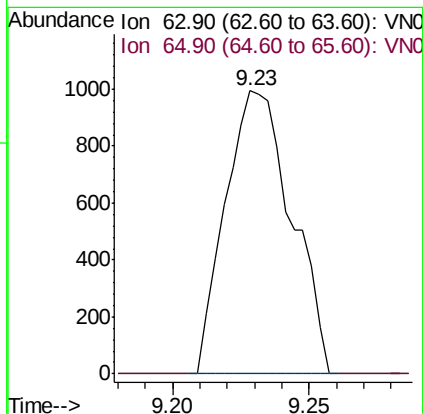
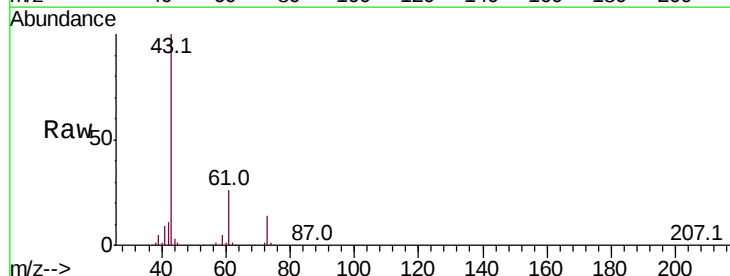
Tot Ion	43	61	87
Resp	90398		
Ratio	100	16.3	12.4
Lower		19.6	9.8
Upper		29.4#	14.6

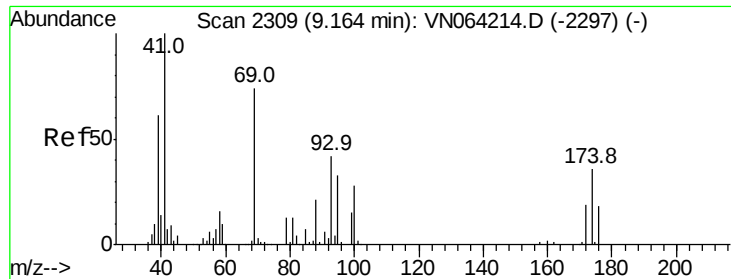


#45

1,2-Dichloropropane
 Concen: 0.480 ug/l
 RT: 9.23 min Scan# 2329
 Delta R.T. 0.14 min
 Lab File: VN064242.D
 Acq: 22 Oct 2020 3:02

Tgt Ion	63	65
Resp	1673	
Ratio	100	0.0
Lower		24.0
Upper		36.0#

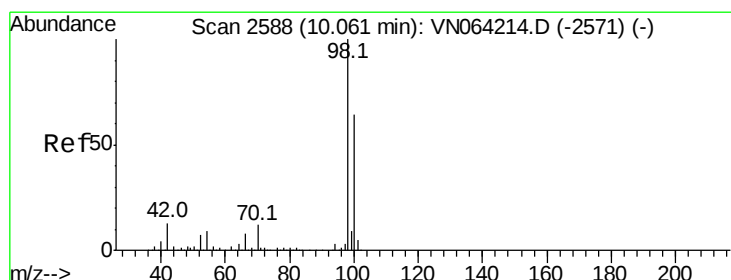
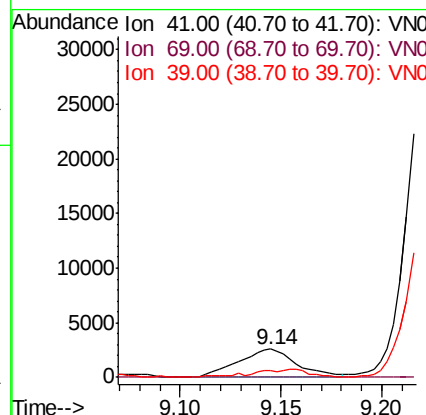
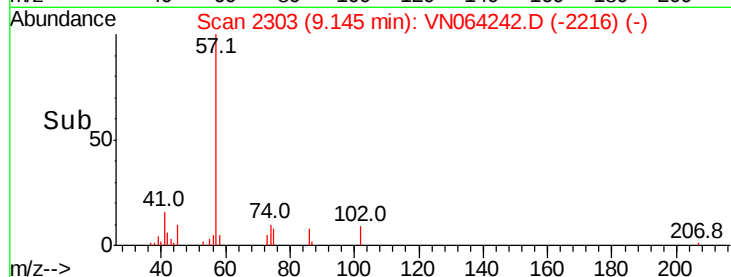
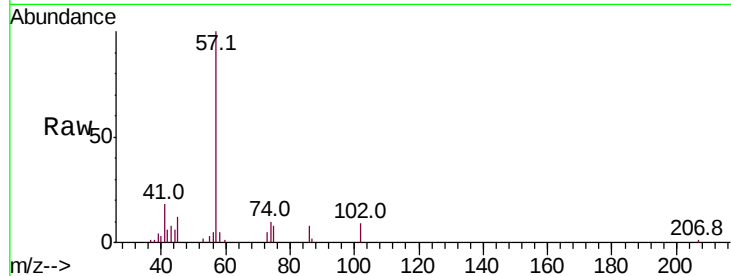




#48
Methvl methacrylate
Concen: 1.253 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064242.D
Acq: 22 Oct 2020 3:02

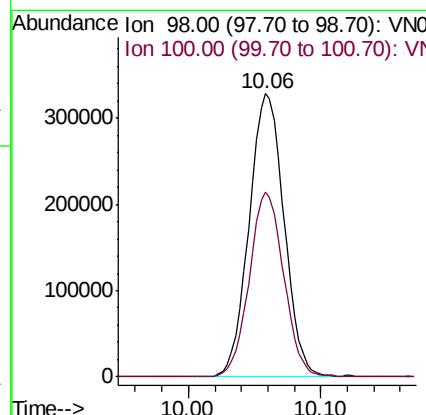
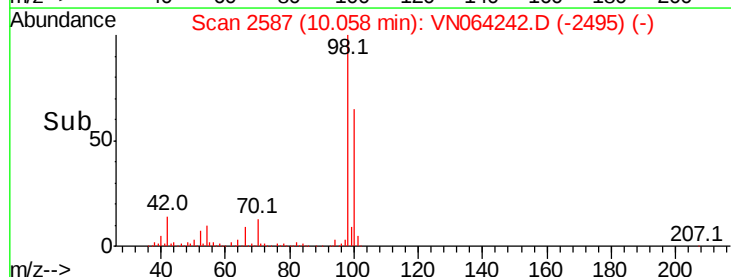
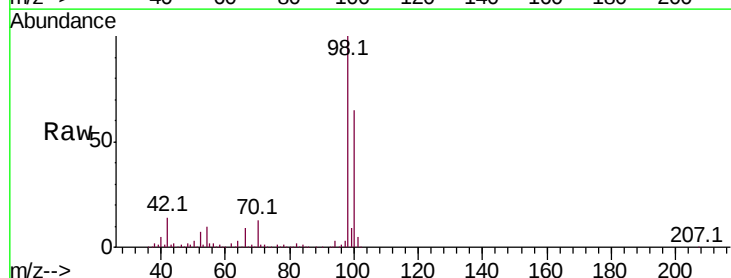
Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#07

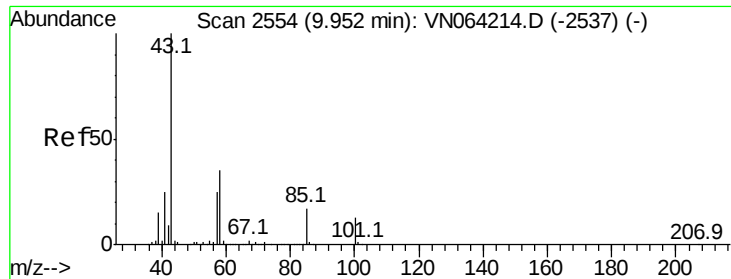
Tot Ion: 41 Resp: 5240
Ion Ratio Lower Upper
41 100
69 0.0 57.3 85.9#
39 0.0 48.6 73.0#



#50
Toluene-d8
Concen: 52.712 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN064242.D
Acq: 22 Oct 2020 3:02

Tgt Ion: 98 Resp: 603283
Ion Ratio Lower Upper
98 100
100 64.0 50.8 76.2

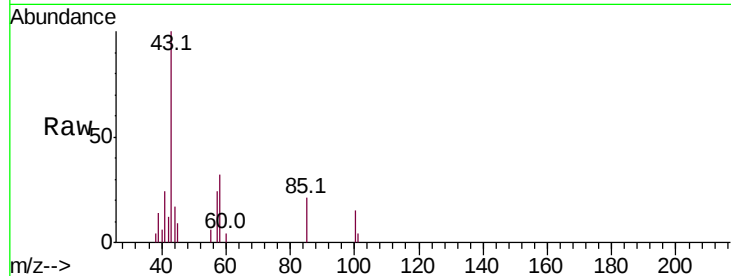




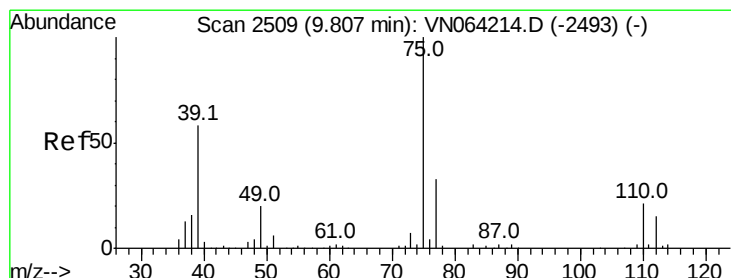
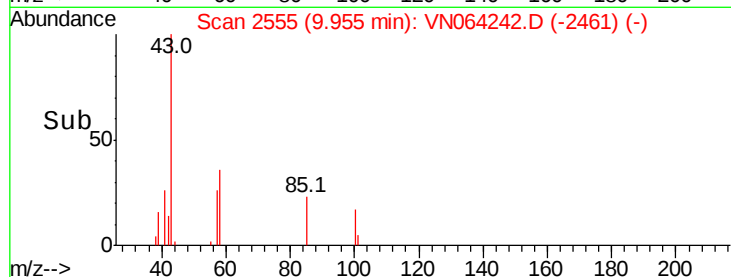
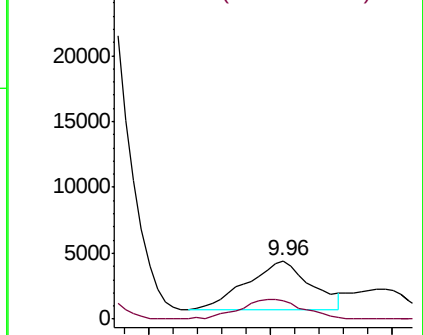
#51
 4-Methyl-2-Pentanone
 Concen: 1.592 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064242.D
 Acq: 22 Oct 2020 3:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#07

Tot Ion: 43 Resp: 6810
 Ion Ratio Lower Upper
 43 100
 58 39.5 28.6 42.8

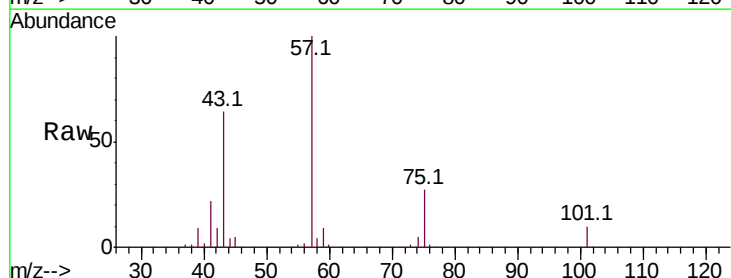


Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO

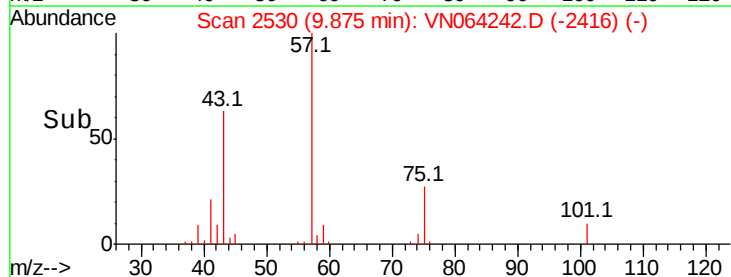
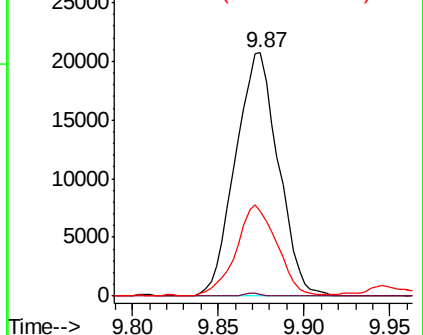


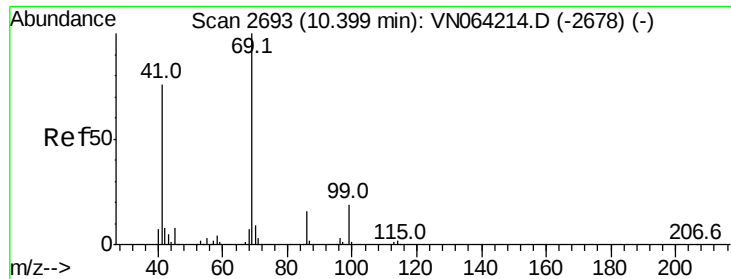
#54
 cis-1,3-Dichloropropene
 Concen: 5.935 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064242.D
 Acq: 22 Oct 2020 3:02

Tgt Ion: 75 Resp: 35906
 Ion Ratio Lower Upper
 75 100
 77 0.9 26.6 39.8#
 39 34.8 46.7 70.1#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO





#56

Ethyl methacrylate

Concen: 0.227 ug/l

RT: 10.51 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN064242.D

Acq: 22 Oct 2020 3:02

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#07

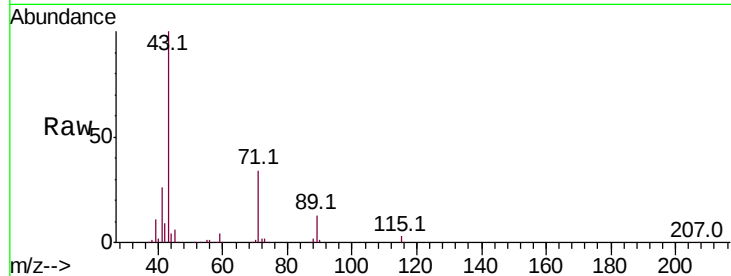
Tot Ion: 69 Resp: 1110

Ion Ratio Lower Upper

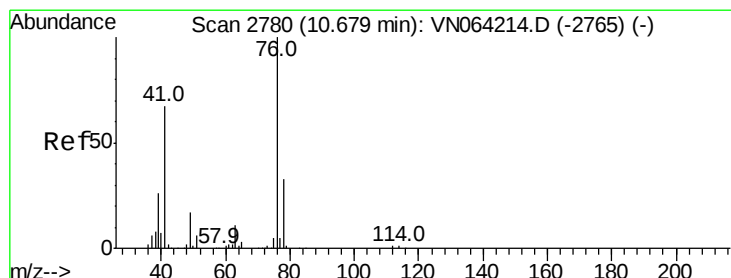
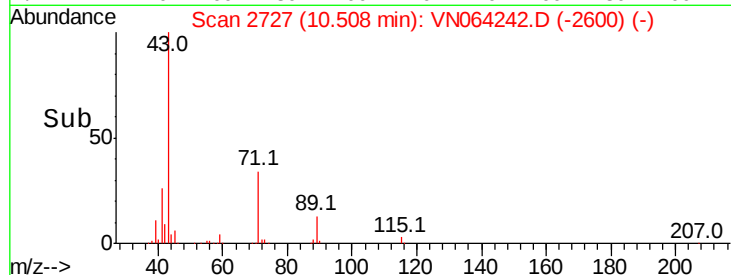
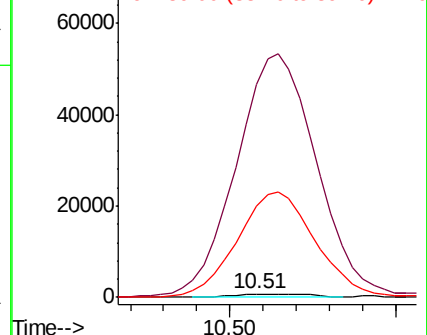
69 100

41 8188.5 61.4 92.2#

39 3416.9 36.0 54.0#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.087 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064242.D

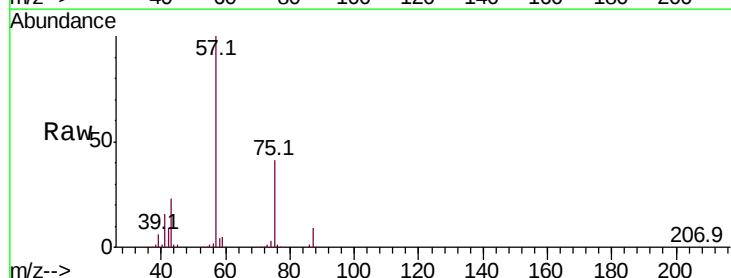
Acq: 22 Oct 2020 3:02

Tgt Ion: 76 Resp: 5960

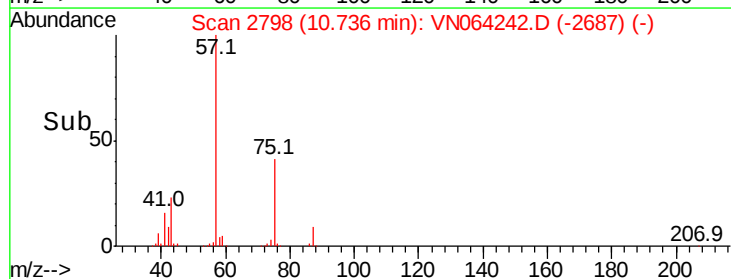
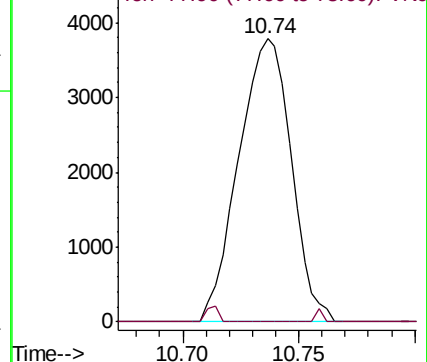
Ion Ratio Lower Upper

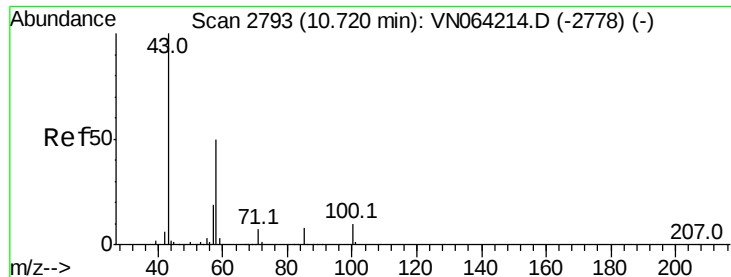
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO





#59

2-Hexanone

Concen: 31.307 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064242.D

Acq: 22 Oct 2020 3:02

Instrument :

MSVOA_N

ClientSampleId :

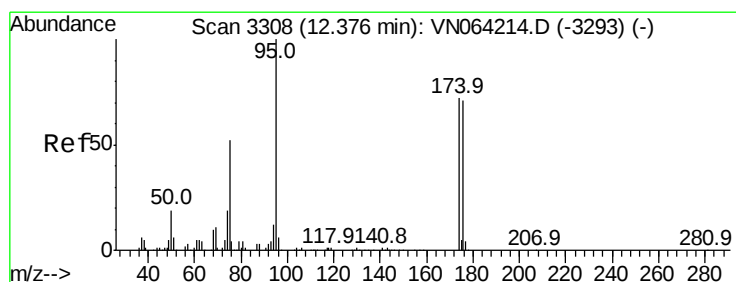
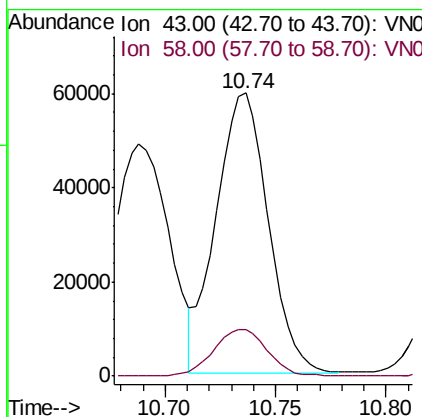
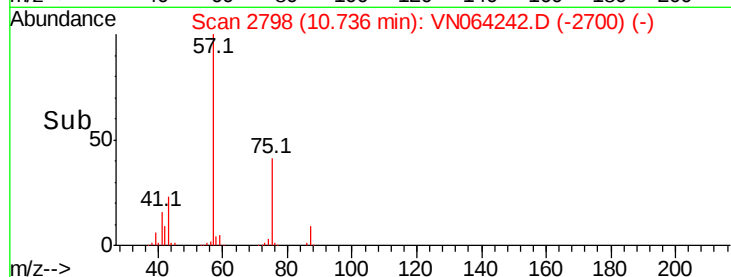
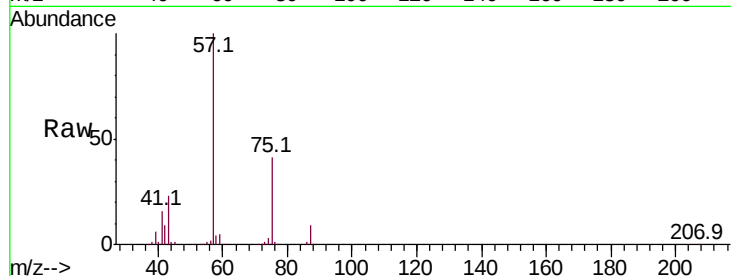
PB132513ZHE#07

Tot Ion: 43 Resp: 97822

Ion Ratio Lower Upper

43 100

58 17.4 24.8 74.3#



#62

4-Bromofluorobenzene

Concen: 57.924 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN064242.D

Acq: 22 Oct 2020 3:02

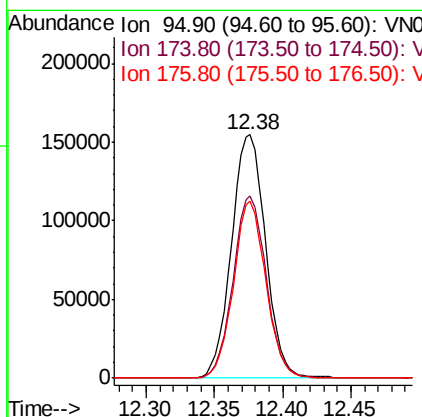
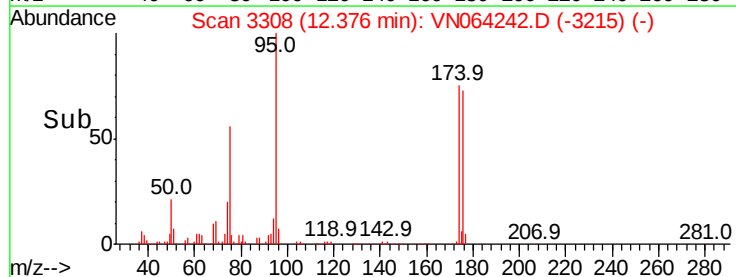
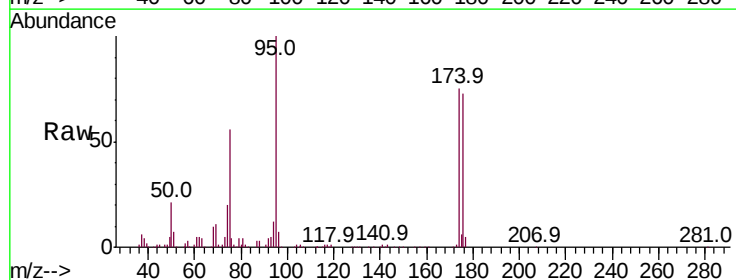
Tgt Ion: 95 Resp: 268750

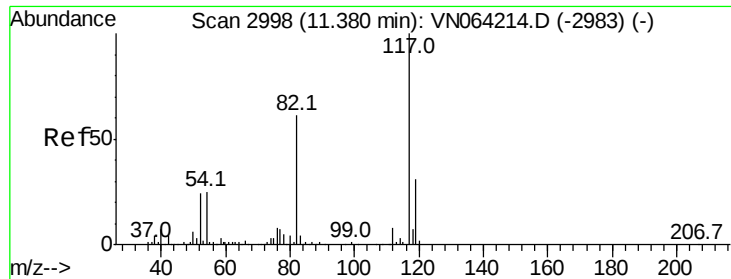
Ion Ratio Lower Upper

95 100

174 72.8 0.0 144.4

176 69.3 0.0 139.2

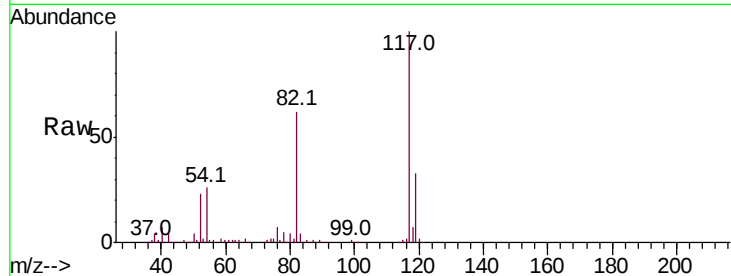




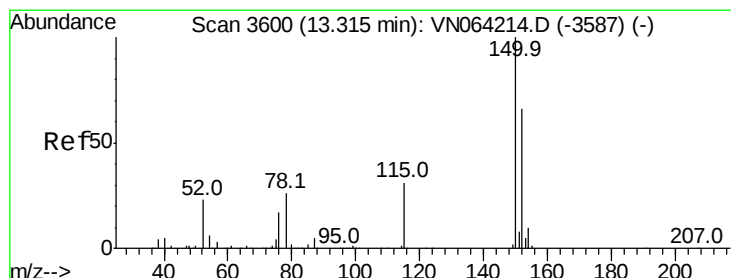
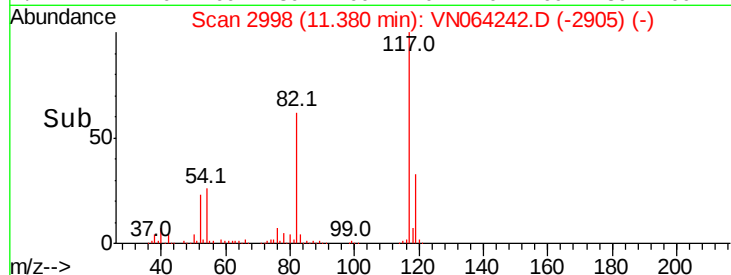
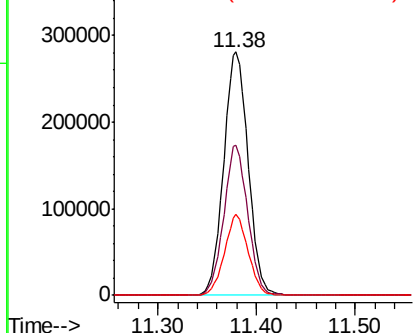
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064242.D
Acq: 22 Oct 2020 3:02

Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#07

Tot Ion:117 Resp: 489998
Ion Ratio Lower Upper
117 100
82 61.6 48.8 73.2
119 33.2 24.7 37.1

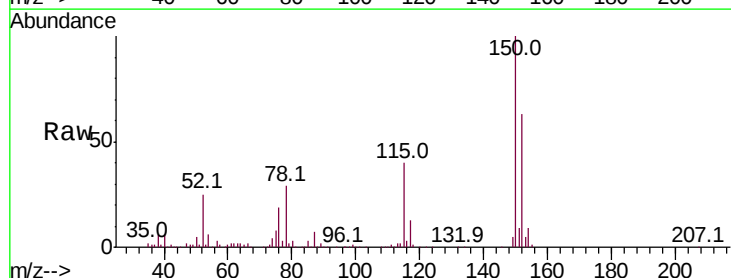


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

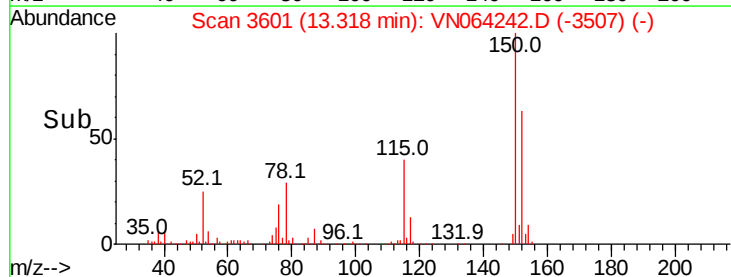
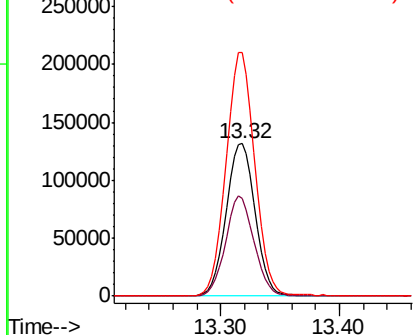


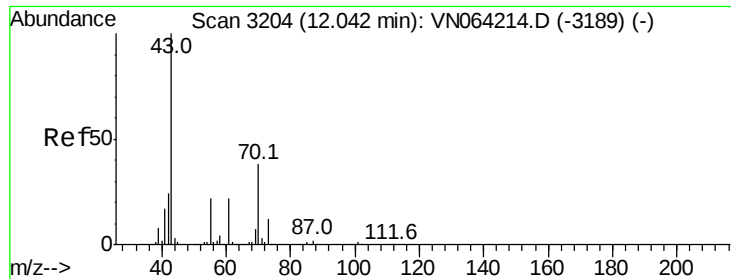
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064242.D
Acq: 22 Oct 2020 3:02

Tgt Ion:152 Resp: 222617
Ion Ratio Lower Upper
152 100
115 64.5 32.0 96.2
150 157.2 0.0 356.6



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

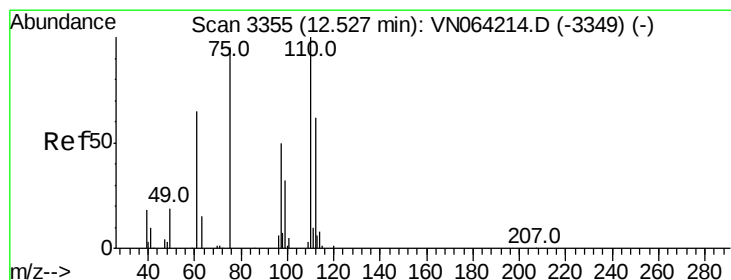
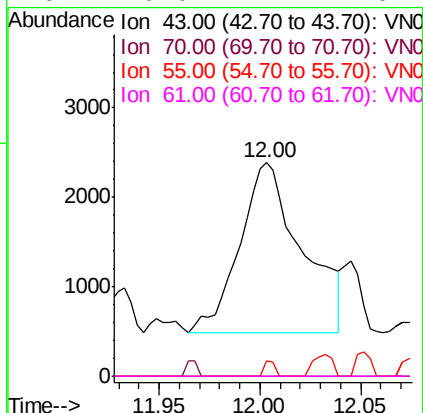
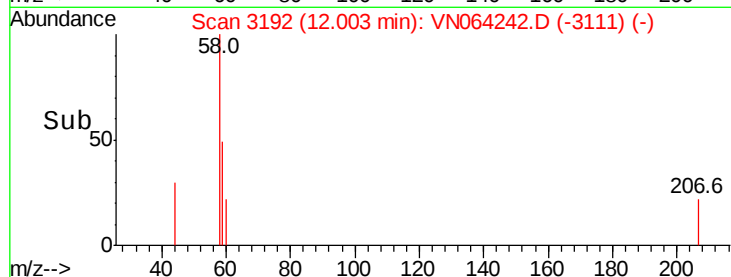
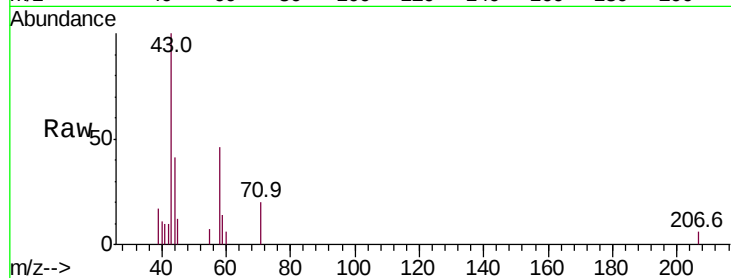




#74
N-amvl acetate
Concen: 0.561 ug/l
RT: 12.00 min Scan# 3192
Delta R.T. -0.04 min
Lab File: VN064242.D
Acq: 22 Oct 2020 3:02

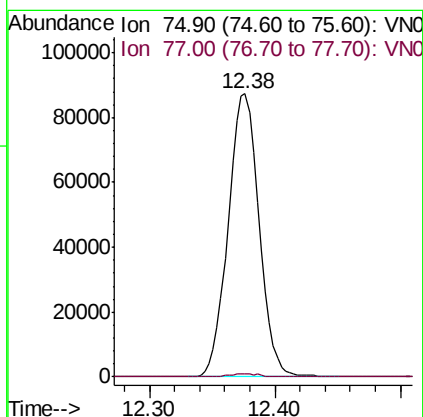
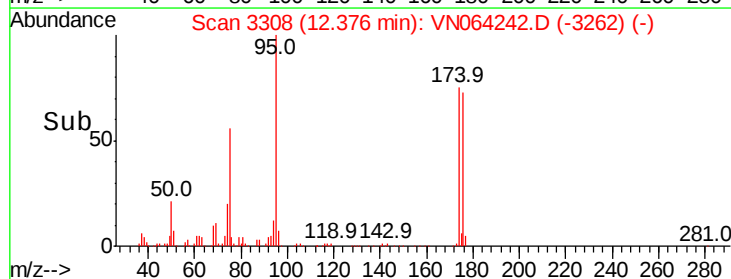
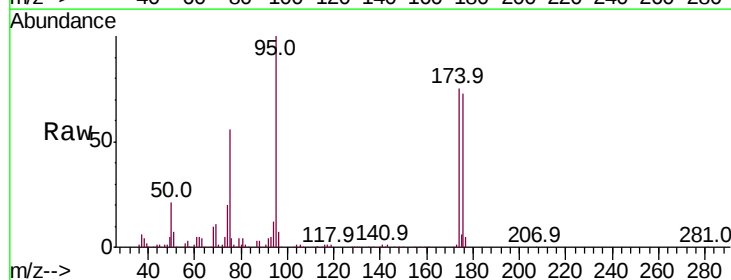
Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#07

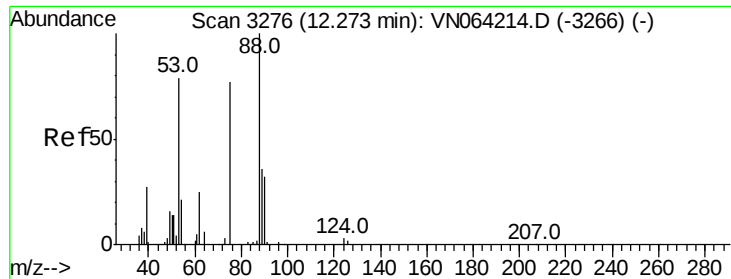
Tot Ion: 43 Resp: 4116
Ion Ratio Lower Upper
43 100
70 0.0 30.2 45.4#
55 0.0 18.0 27.0#
61 0.0 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 31.834 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064242.D
Acq: 22 Oct 2020 3:02

Tgt Ion: 75 Resp: 149399
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 80.371 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064242.D

Acq: 22 Oct 2020 3:02

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#07

Tot Ion: 75 Resp: 149399

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 38.7 58.1#

