

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102120\
 Data File : VN064243.D
 Acq On : 22 Oct 2020 3:26
 Operator : JC/MD
 Sample : PB132513ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#08

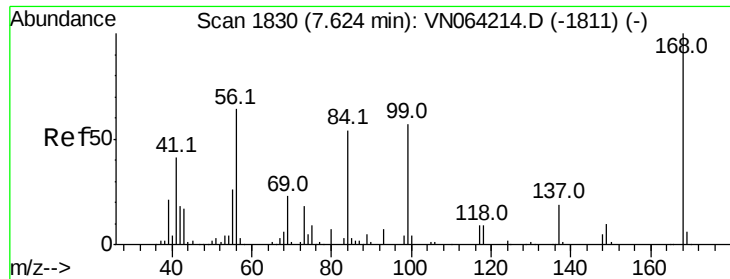
Quant Time: Oct 22 03:59:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 21 12:48:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	257134	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	454364	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	457448	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	210986	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	198056	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
35) Dibromofluoromethane	7.55	113	153134	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
50) Toluene-d8	10.06	98	578179	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
62) 4-Bromofluorobenzene	12.37	95	253132	56.98	ug/l	0.00
Spiked Amount			Recovery	=	113.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	260	0.509	ug/l #	70
13) Acrolein	3.58	56	128	0.399	ug/l #	49
16) Acetone	3.78	43	9900	9.061	ug/l	95
18) Methyl Acetate	4.29	43	3190	1.146	ug/l	91
20) Methylene Chloride	4.51	84	7870	2.701	ug/l #	92
25) 2-Butanone	6.79	43	5644	3.251	ug/l	94
29) Tetrahydrofuran	7.16	42	1080	1.040	ug/l #	40
31) Cyclohexane	7.62	56	3886	0.858	ug/l #	30
36) 1,1-Dichloropropene	7.63	75	22877	5.050	ug/l #	50
38) Carbon Tetrachloride	7.62	117	27671	5.369	ug/l #	15
43) Isopropyl Acetate	8.13	43	92543	12.074	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	1978	0.593	ug/l #	45
48) Methyl methacrylate	9.14	41	5492	1.372	ug/l #	17
49) 1,4-Dioxane	9.23	88	106	2.263	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	7798	1.904	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	36769	6.348	ug/l #	56
56) Ethyl methacrylate	10.51	69	1051	0.225	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5368	1.023	ug/l #	42
59) 2-Hexanone	10.74	43	95354	31.873	ug/l #	53
74) N-amyl acetate	12.01	43	5417	0.779	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	134051	30.138	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	134051	76.089	ug/l #	9

(#) = 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: VN064243.D

Acq: 22 Oct 2020 3:26

Instrument :

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ClientSampleId :

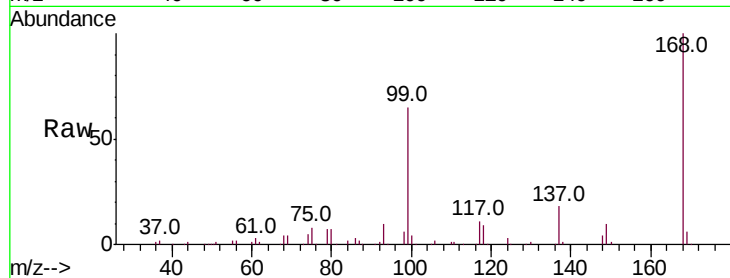
PB132513ZHE#08

Tot Ion:168 Resp: 257134

Ion Ratio Lower Upper

168 100

99 64.9 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

120000

100000

80000

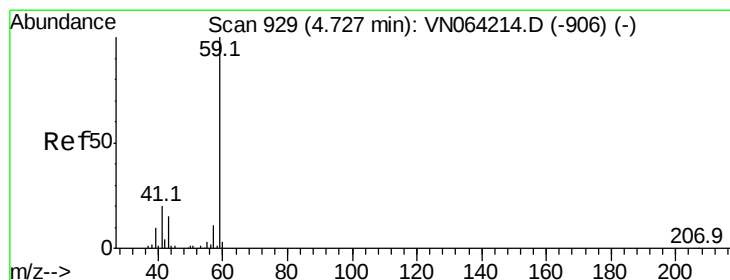
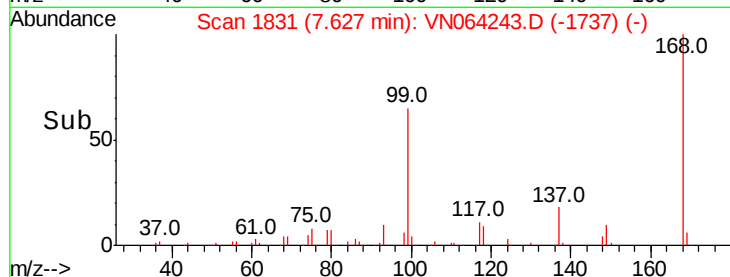
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.509 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.00 min

Lab File: VN064243.D

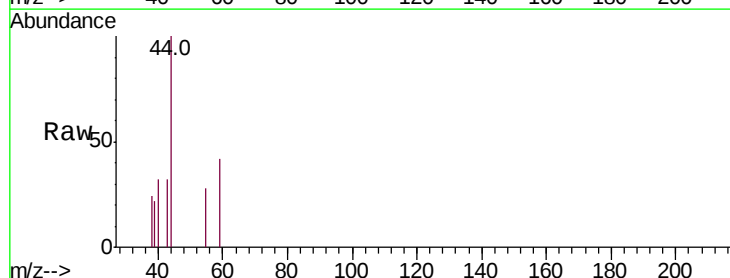
Acq: 22 Oct 2020 3:26

Tgt Ion: 59 Resp: 260

Ion Ratio Lower Upper

59 100

57 0.0 9.2 13.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.72

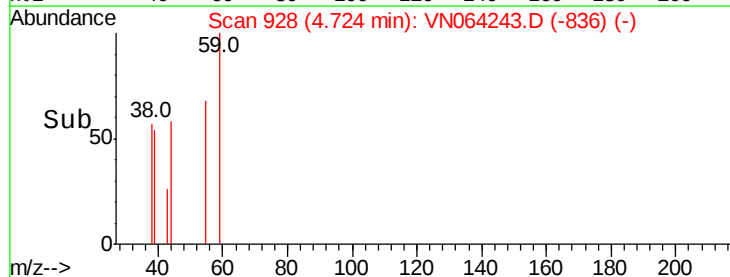
300

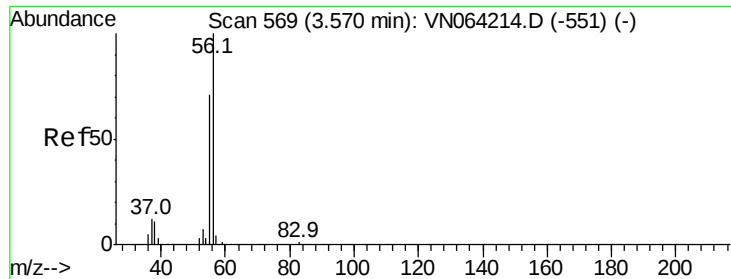
200

100

0

Time--> 4.71 4.72 4.73 4.74





#13

Acrolein

Concen: 0.399 ug/l

RT: 3.58 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Instrument :

MSVOA_N

ClientSampleId :

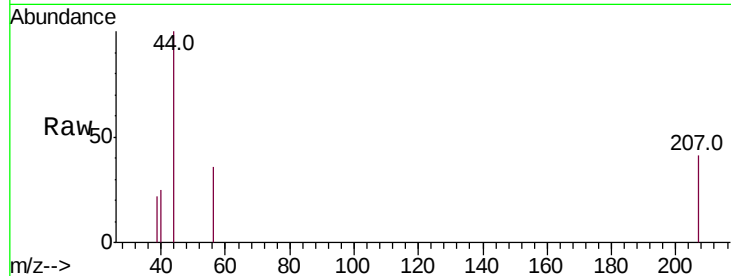
PB132513ZHE#08

Tot Ion: 56 Resp: 128

Ion Ratio Lower Upper

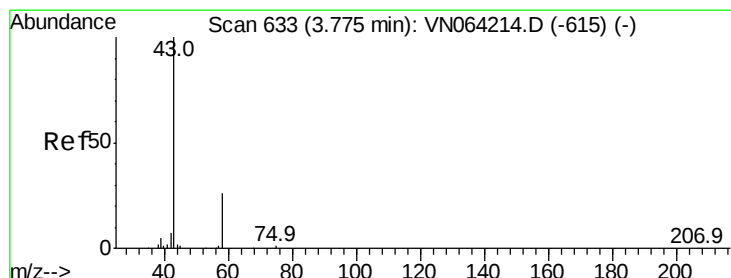
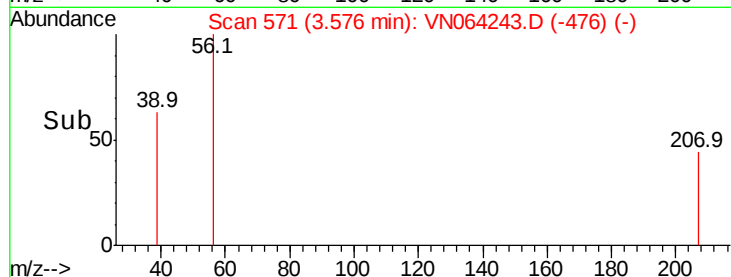
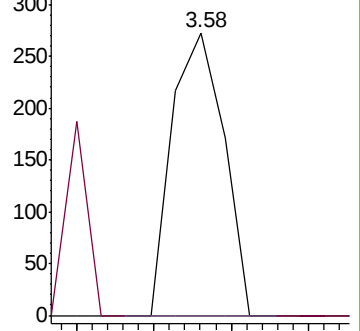
56 100

55 28.1 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 9.061 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN064243.D

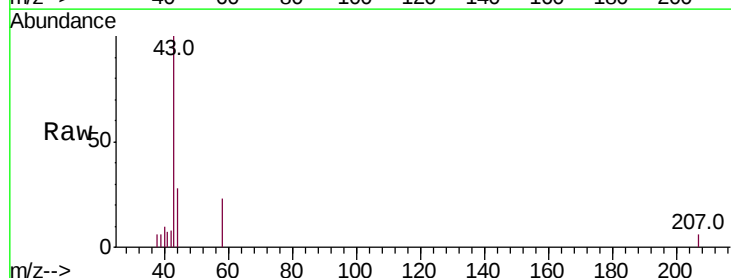
Acq: 22 Oct 2020 3:26

Tgt Ion: 43 Resp: 9900

Ion Ratio Lower Upper

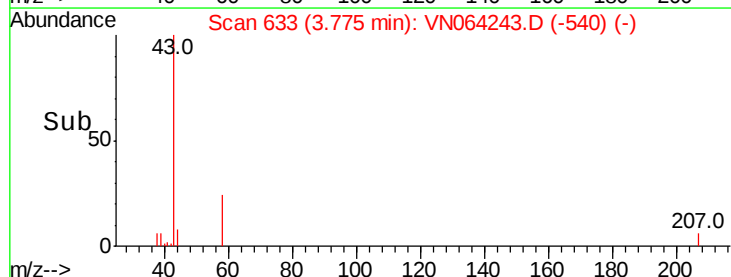
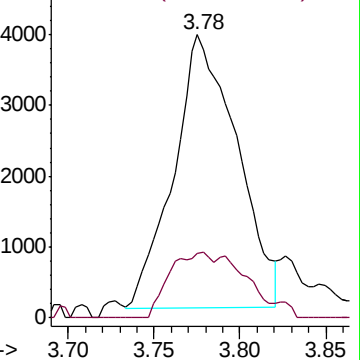
43 100

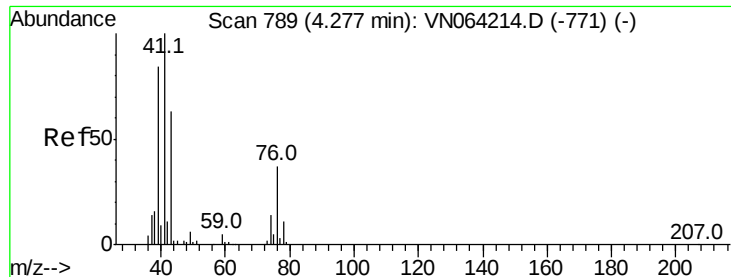
58 23.6 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

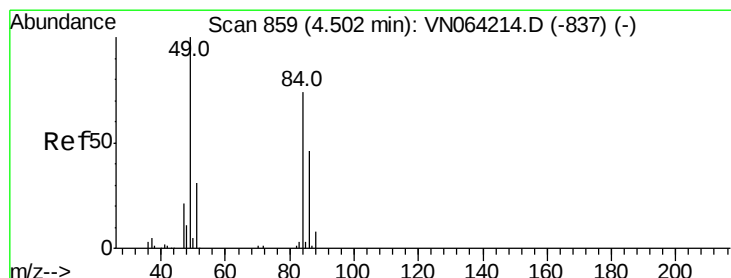
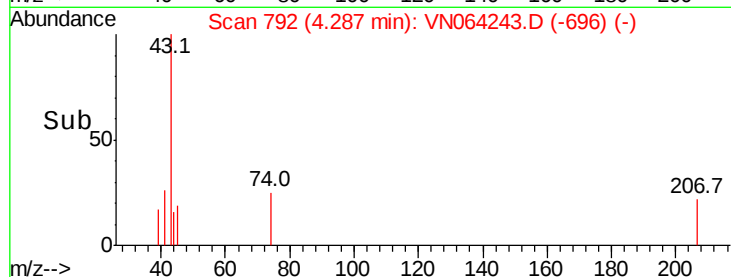
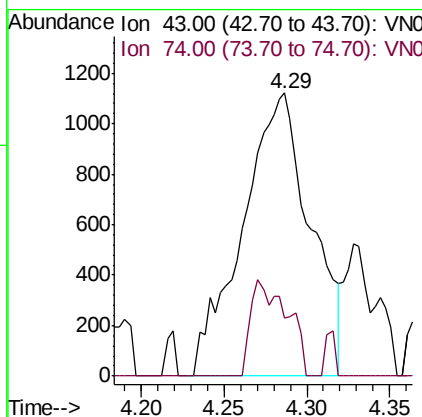
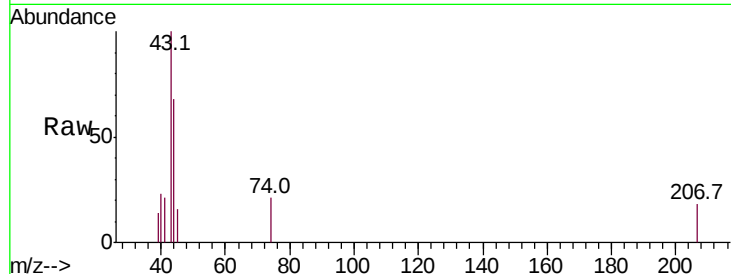




#18
Methyl Acetate
Concen: 1.146 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN064243.D
Acq: 22 Oct 2020 3:26

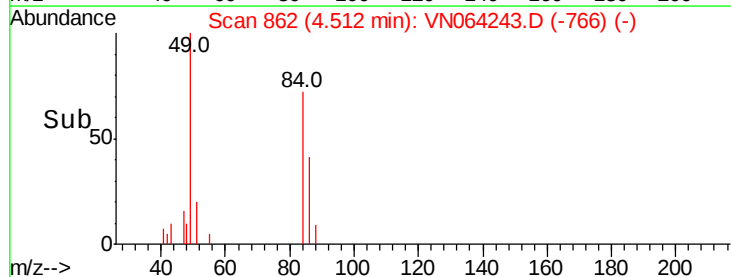
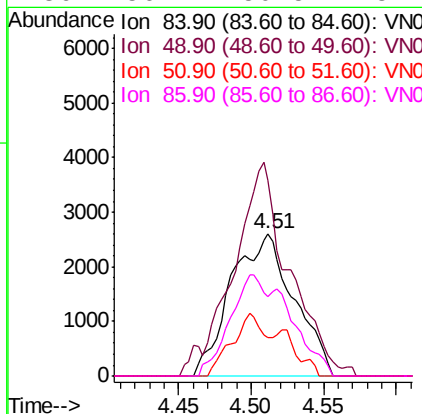
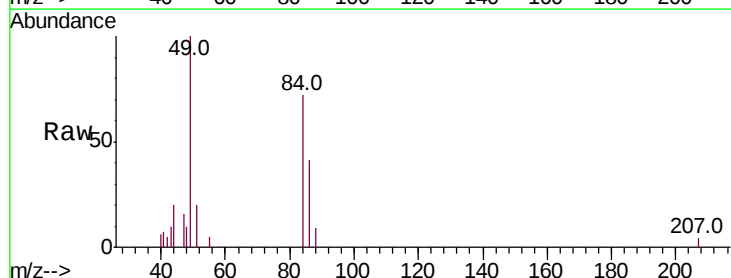
Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#08

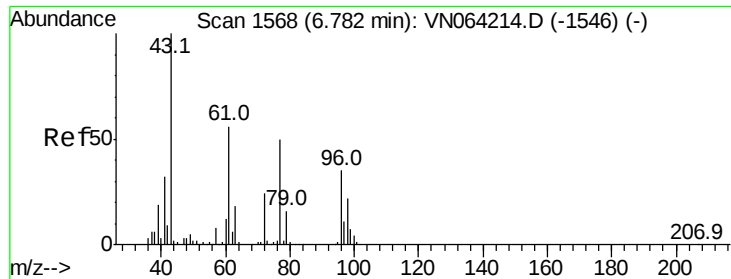
Tot Ion: 43 Resp: 3190
Ion Ratio Lower Upper
43 100
74 18.1 17.9 26.9



#20
Methylene Chloride
Concen: 2.701 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN064243.D
Acq: 22 Oct 2020 3:26

Tgt Ion: 84 Resp: 7870
Ion Ratio Lower Upper
84 100
49 131.5 108.5 162.7
51 27.2 33.8 50.8#
86 56.1 50.5 75.7

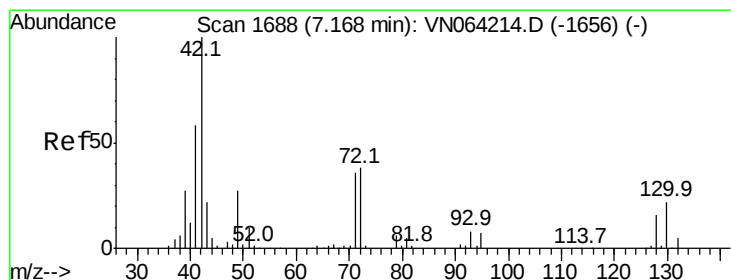
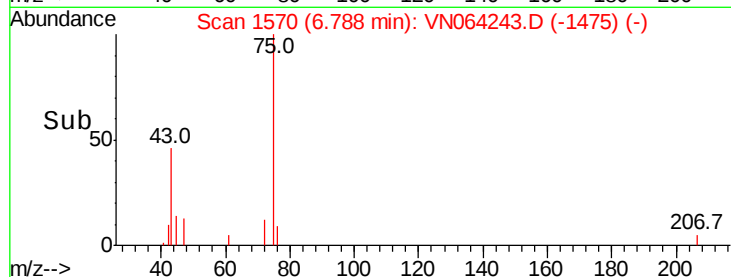
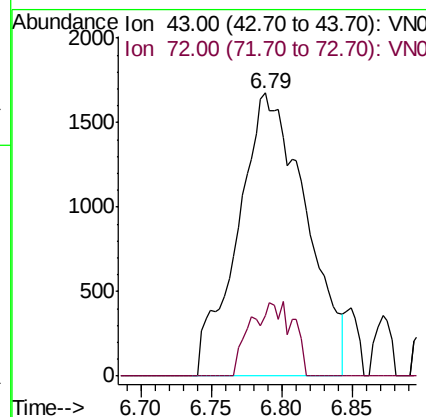
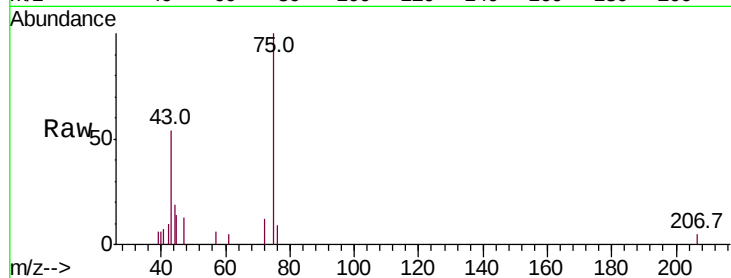




#25
2-Butanone
Concen: 3.251 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN064243.D
Acq: 22 Oct 2020 3:26

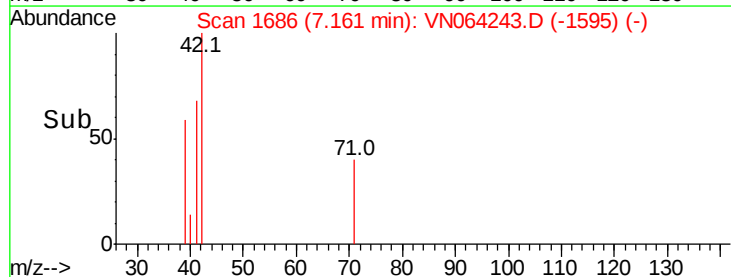
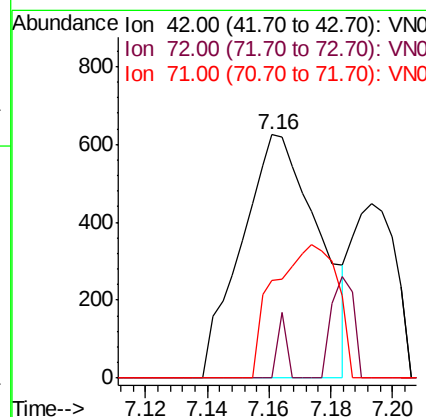
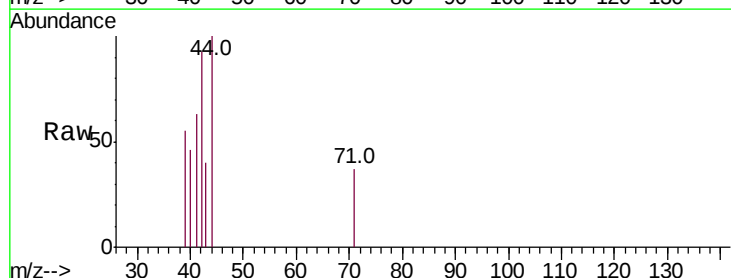
Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#08

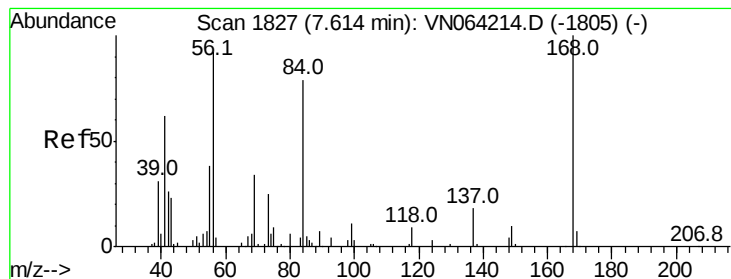
Tot Ion: 43 Resp: 5644
Ion Ratio Lower Upper
43 100
72 21.4 19.4 29.0



#29
Tetrahydrofuran
Concen: 1.040 ug/l
RT: 7.16 min Scan# 1686
Delta R.T. -0.01 min
Lab File: VN064243.D
Acq: 22 Oct 2020 3:26

Tgt Ion: 42 Resp: 1080
Ion Ratio Lower Upper
42 100
72 3.1 30.8 46.2#
71 0.0 29.0 43.6#





#31

Cyclohexane

Concen: 0.858 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#08

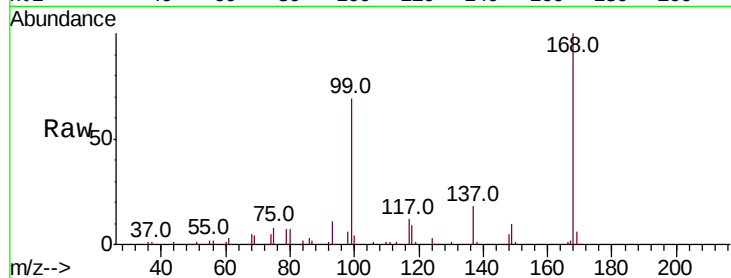
Tot Ion: 56 Resp: 3886

Ion Ratio Lower Upper

56 100

69 172.9 29.8 44.6#

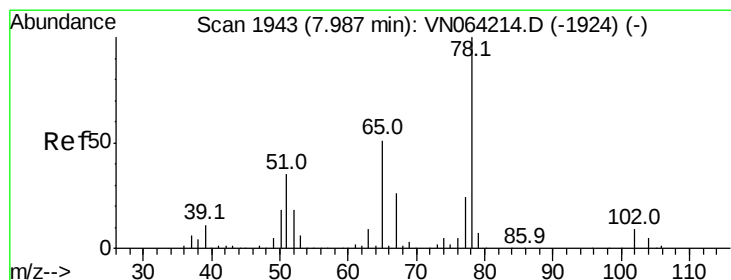
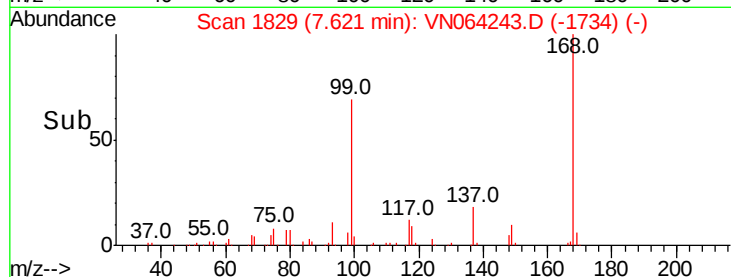
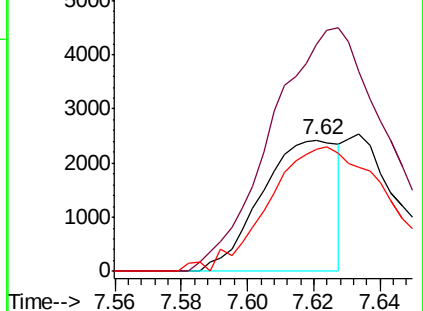
84 86.0 68.1 102.1



Abundance Ion 56.00 (55.70 to 56.70): VN064214.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN064214.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN064214.D (-1805) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.866 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN064243.D

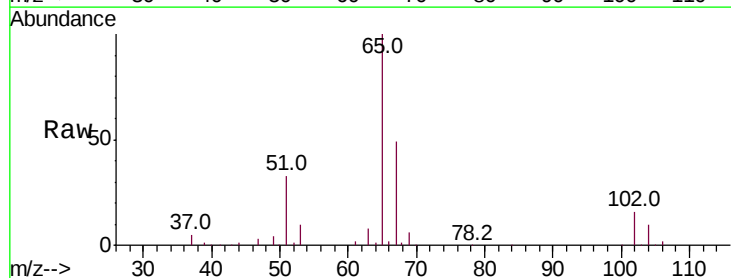
Acq: 22 Oct 2020 3:26

Tgt Ion: 65 Resp: 198056

Ion Ratio Lower Upper

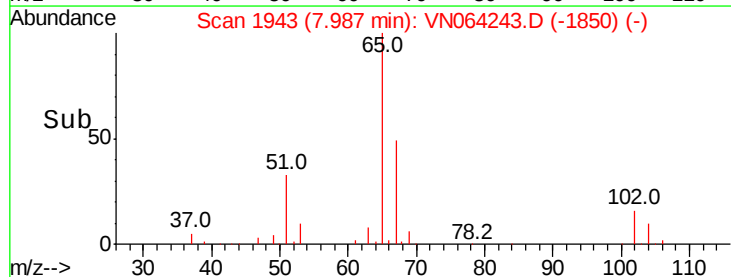
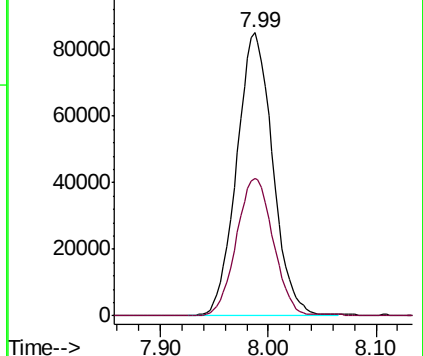
65 100

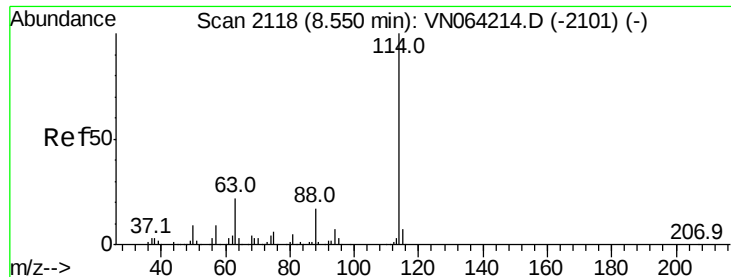
67 49.7 0.0 100.2



Abundance Ion 64.90 (64.60 to 65.60): VN064214.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN064214.D (-1924) (-)

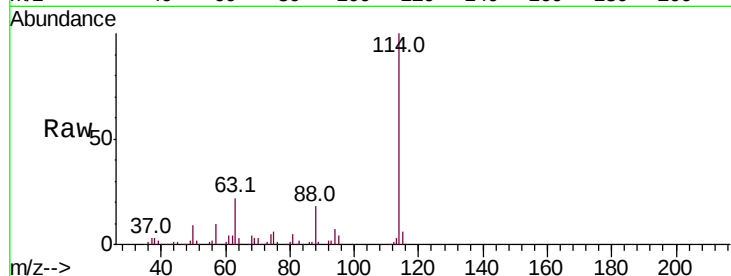




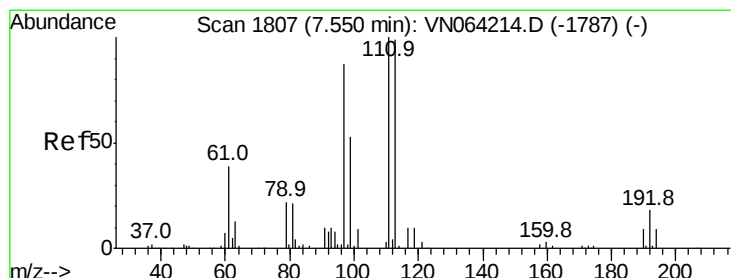
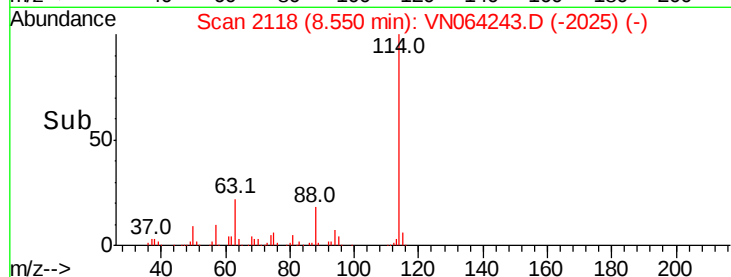
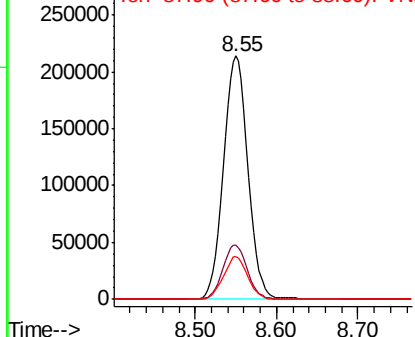
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN064243.D
Acq: 22 Oct 2020 3:26

Instrument :
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PB132513ZHE#08

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.0
88	17.7	0.0	34.2

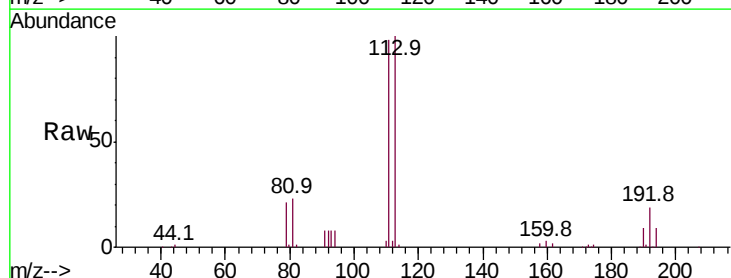


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

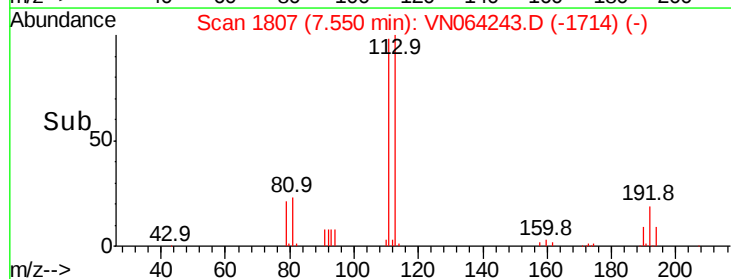
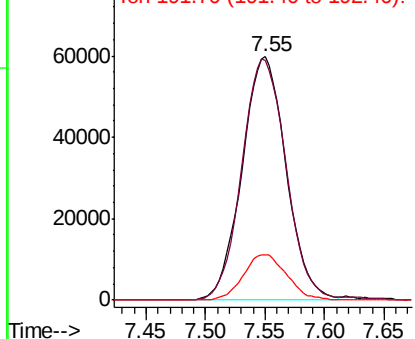


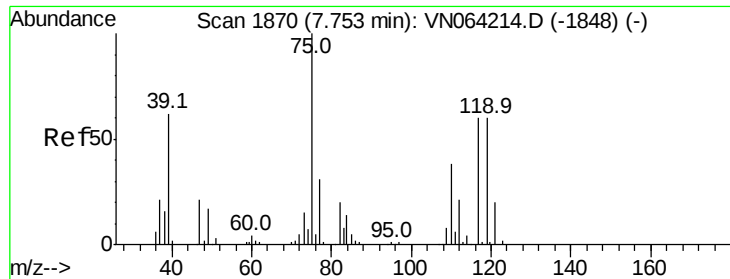
#35
Dibromofluoromethane
Concen: 50.693 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. -0.00 min
Lab File: VN064243.D
Acq: 22 Oct 2020 3:26

Tgt Ion	Ratio	Lower	Upper
113	100		
111	99.8	84.2	126.2
192	18.5	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: 5.050 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#08

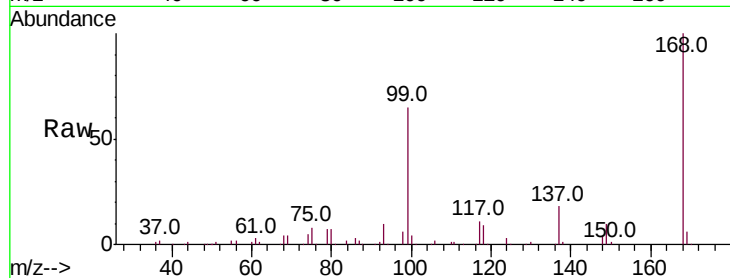
Tot Ion: 75 Resp: 22877

Ion Ratio Lower Upper

75 100

110 9.5 17.2 51.6#

77 0.0 24.9 37.3#

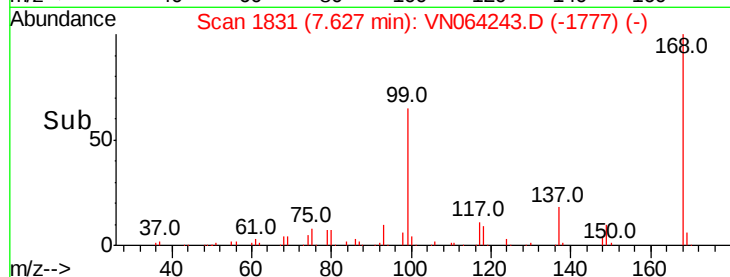


Abundance Ion 74.90 (74.60 to 75.60): VN064214.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN064214.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN064214.D (-1848) (-)

Time-->

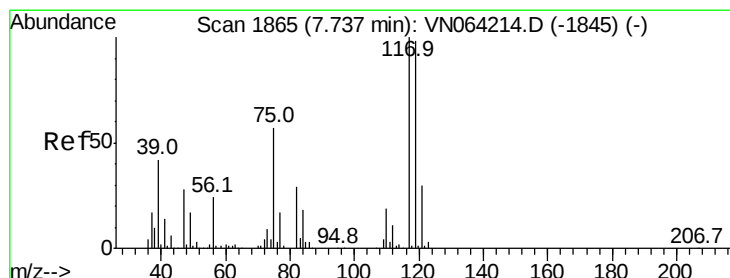


Abundance Ion 74.90 (74.60 to 75.60): VN064243.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN064243.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN064243.D (-1777) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.369 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

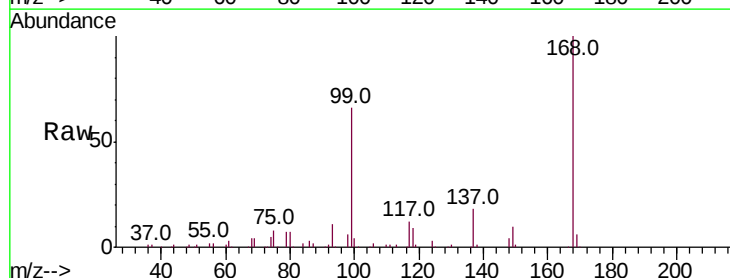
Tgt Ion: 117 Resp: 27671

Ion Ratio Lower Upper

117 100

119 4.4 78.5 117.7#

121 0.0 24.3 36.5#

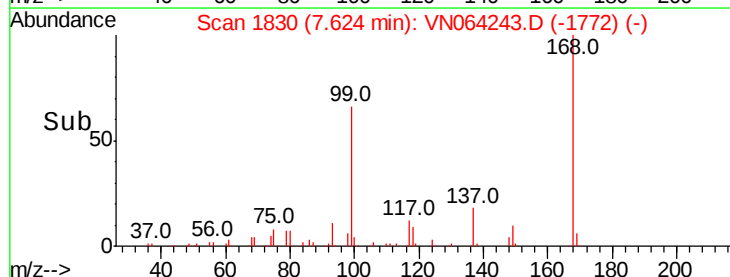


Abundance Ion 116.80 (116.50 to 117.50): VN064214.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN064214.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN064214.D (-1845) (-)

Time-->

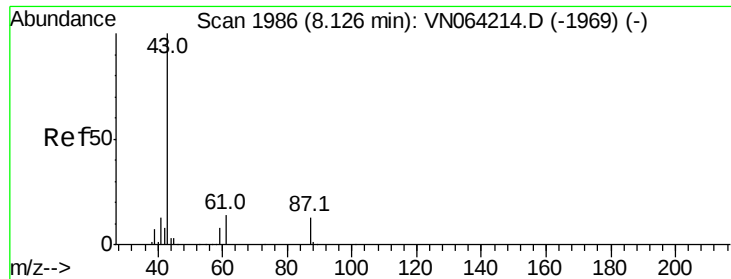


Abundance Ion 116.80 (116.50 to 117.50): VN064243.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN064243.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN064243.D (-1772) (-)

Time-->



#43

Isopropyl Acetate

Concen: 12.074 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#08

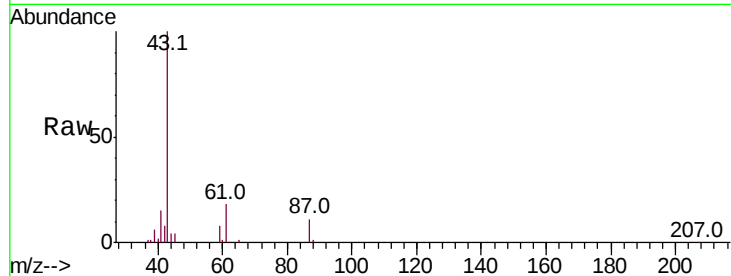
Tot Ion: 43 Resp: 92543

Ion Ratio Lower Upper

43 100

61 16.9 19.6 29.4#

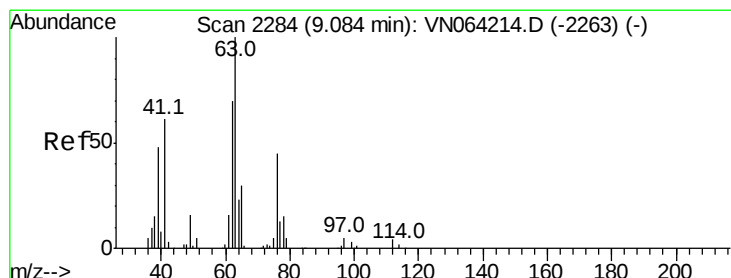
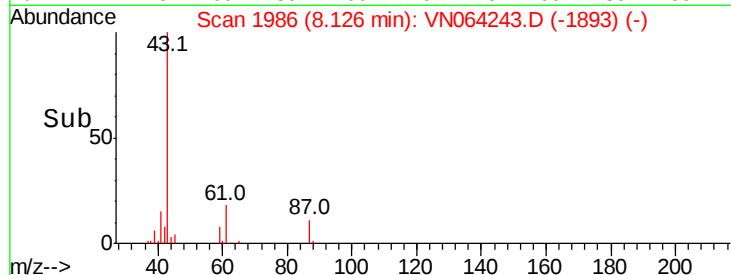
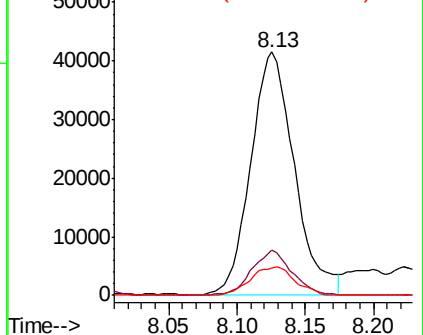
87 11.8 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.593 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN064243.D

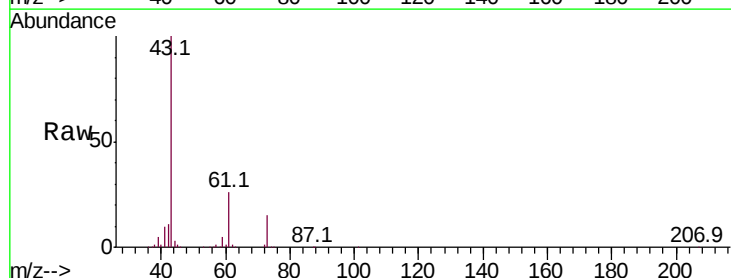
Acq: 22 Oct 2020 3:26

Tgt Ion: 63 Resp: 1978

Ion Ratio Lower Upper

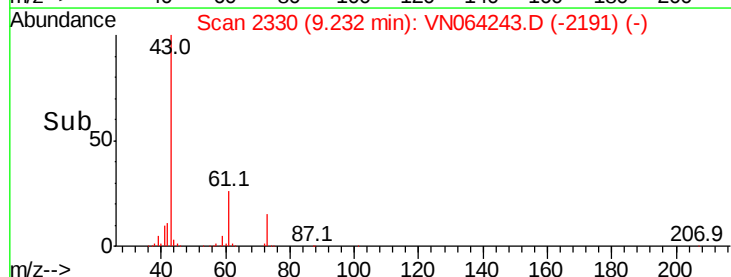
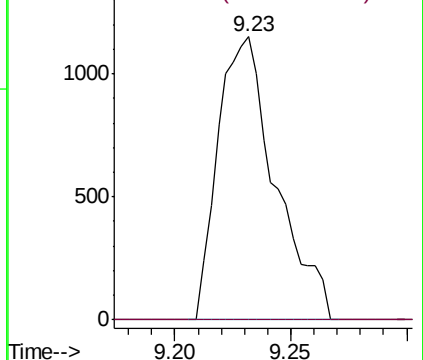
63 100

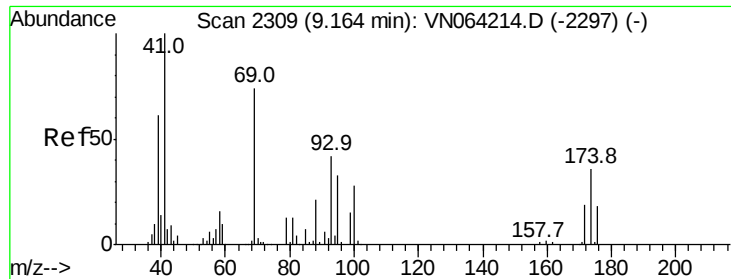
65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

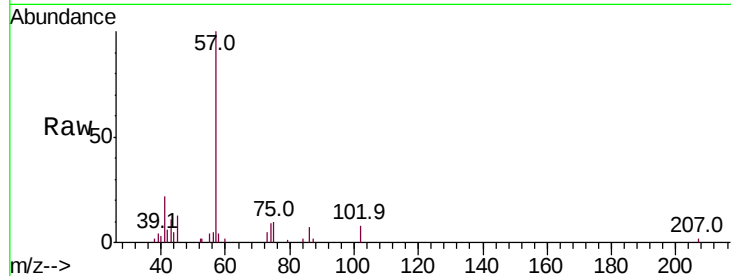




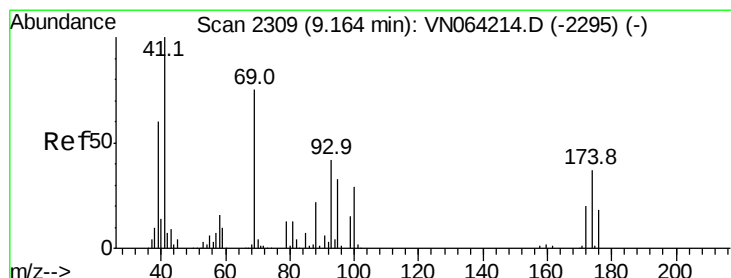
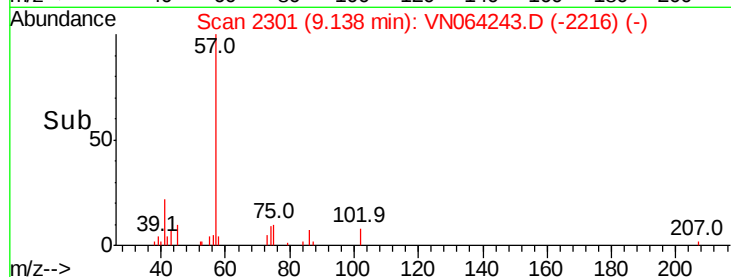
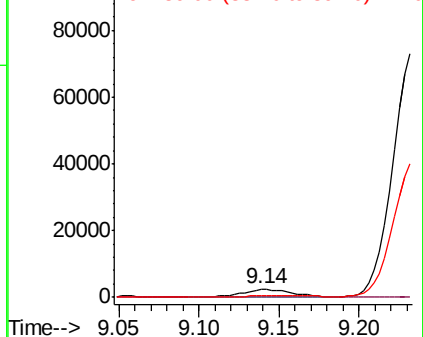
#48
Methvl methacrylate
Concen: 1.372 ug/l
RT: 9.14 min Scan# 2301
Delta R.T. -0.03 min
Lab File: VN064243.D
Acq: 22 Oct 2020 3:26

Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#08

Tot Ion: 41 Resp: 5492
Ion Ratio Lower Upper
41 100
69 0.0 57.3 85.9#
39 0.0 48.6 73.0#

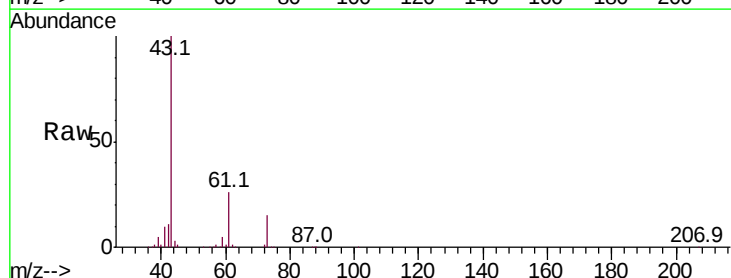


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

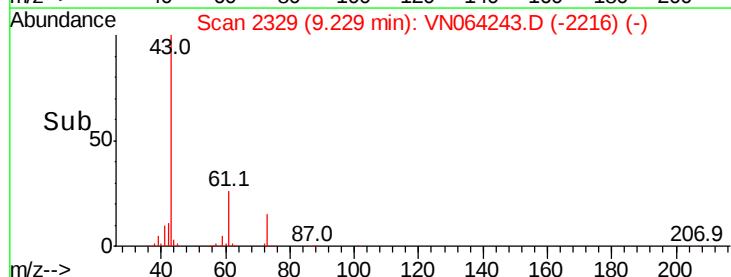
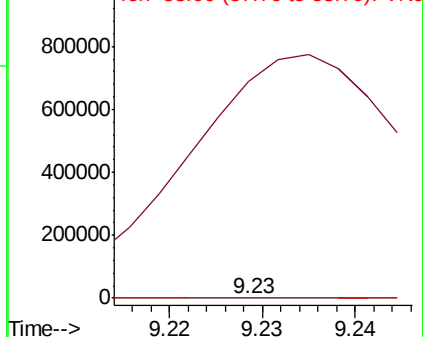


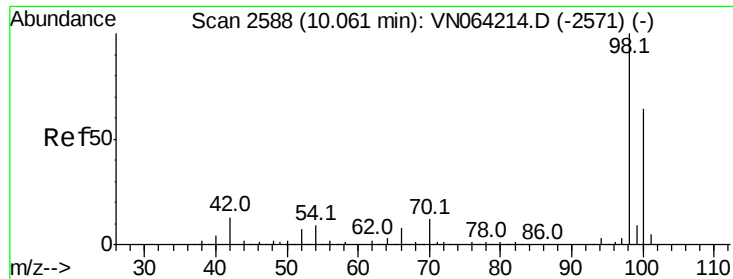
#49
1,4-Dioxane
Concen: 2.263 ug/l
RT: 9.23 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN064243.D
Acq: 22 Oct 2020 3:26

Tgt Ion: 88 Resp: 106
Ion Ratio Lower Upper
88 100
43 1326989.6 34.6 52.0#
58 4916.0 59.0 88.6#



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





#50

Toluene-d8

Concen: 52.763 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Instrument :

MSVOA_N

ClientSampleId :

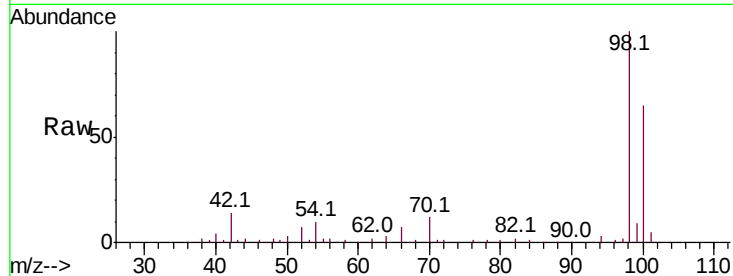
PB132513ZHE#08

Tot Ion: 98 Resp: 578179

Ion Ratio Lower Upper

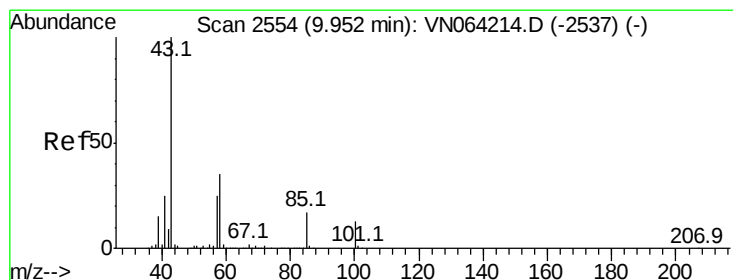
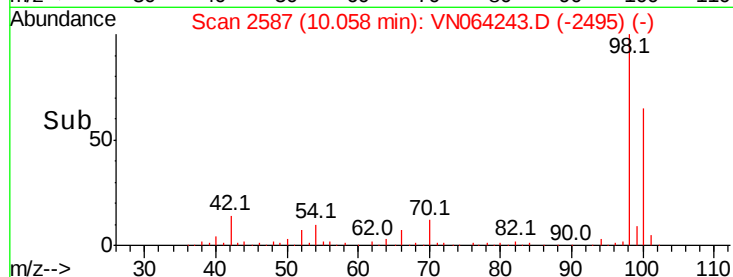
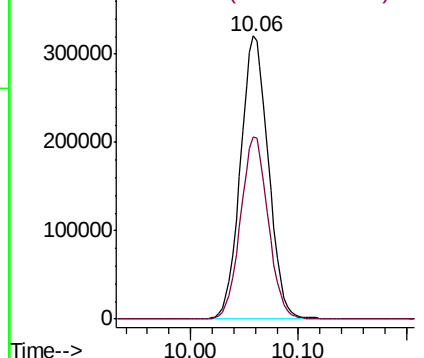
98 100

100 63.8 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.904 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064243.D

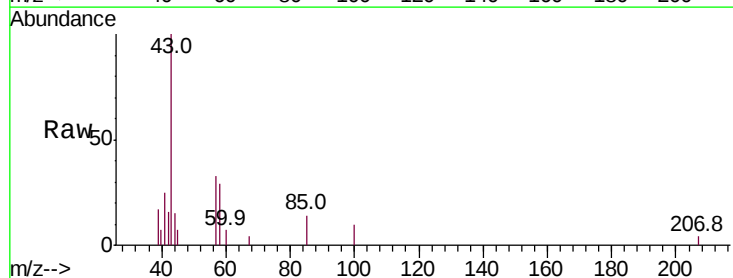
Acq: 22 Oct 2020 3:26

Tgt Ion: 43 Resp: 7798

Ion Ratio Lower Upper

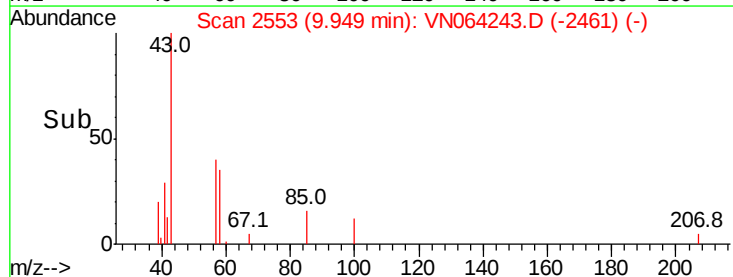
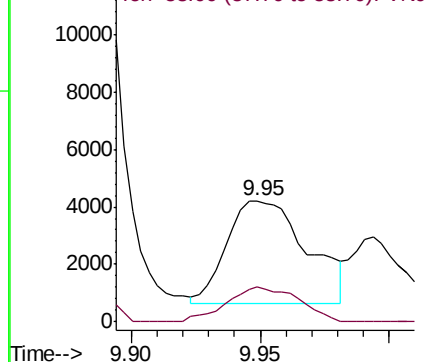
43 100

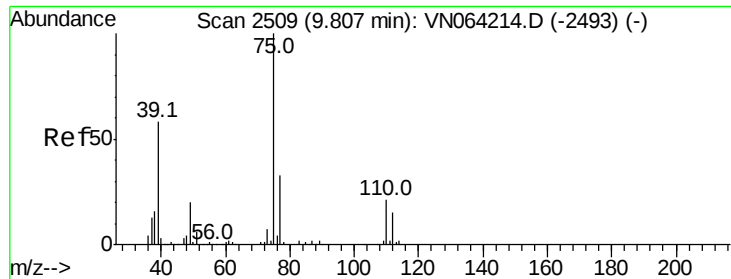
58 30.6 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 6.348 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#08

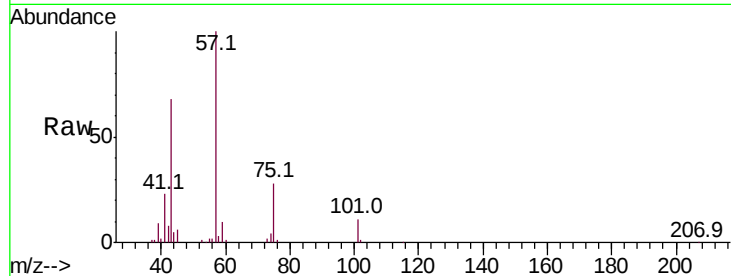
Tot Ion: 75 Resp: 36769

Ion Ratio Lower Upper

75 100

77 0.0 26.6 39.8#

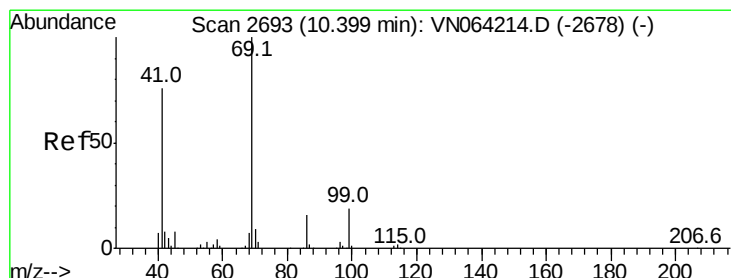
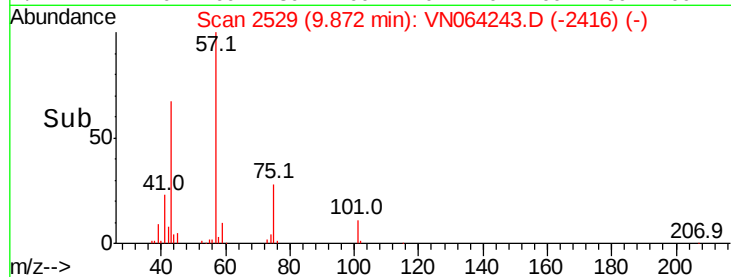
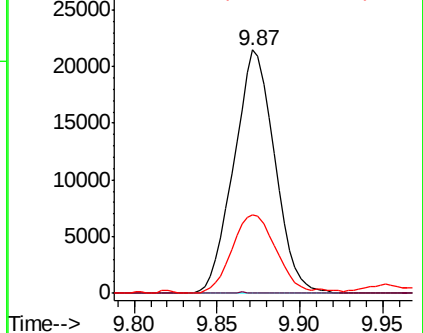
39 32.1 46.7 70.1#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 76.90 (76.60 to 77.60): VNC

Ion 39.00 (38.70 to 39.70): VNC



#56

Ethyl methacrylate

Concen: 0.225 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

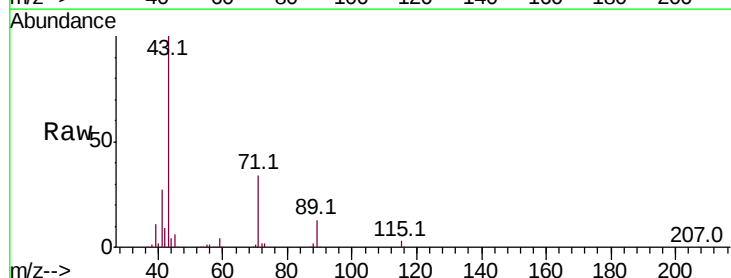
Tgt Ion: 69 Resp: 1051

Ion Ratio Lower Upper

69 100

41 8695.6 61.4 92.2#

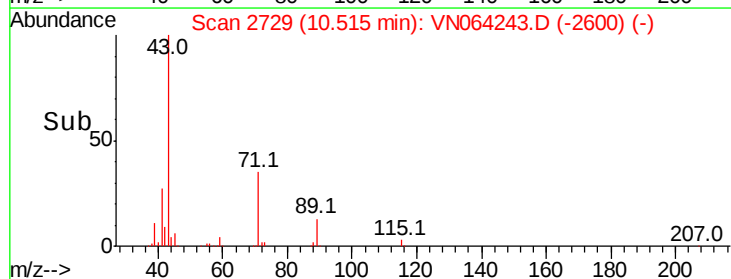
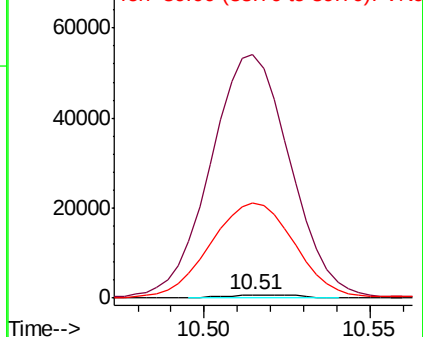
39 3594.9 36.0 54.0#

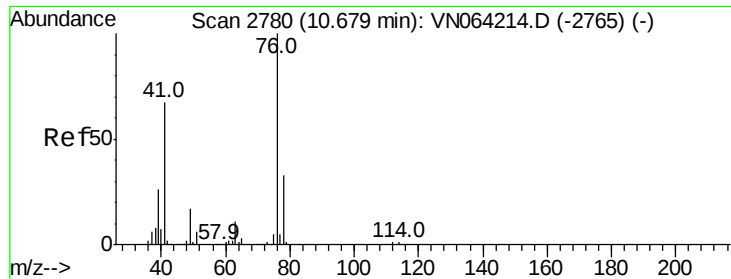


Abundance Ion 69.00 (68.70 to 69.70): VNC

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#57

1,3-Dichloropropane

Concen: 1.023 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Instrument :

MSVOA_N

ClientSampleId :

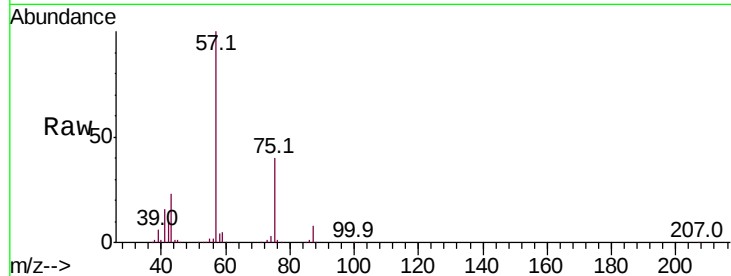
PB132513ZHE#08

Tot Ion: 76 Resp: 5368

Ion Ratio Lower Upper

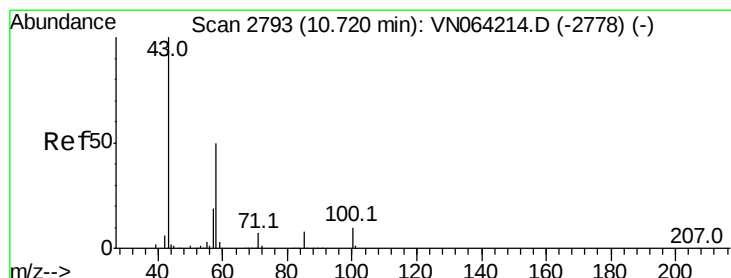
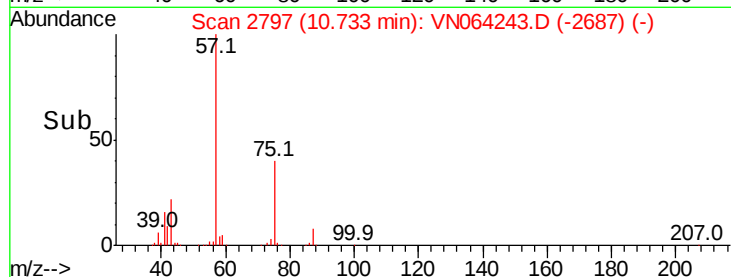
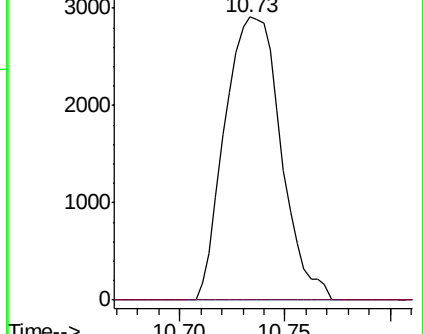
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 31.873 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064243.D

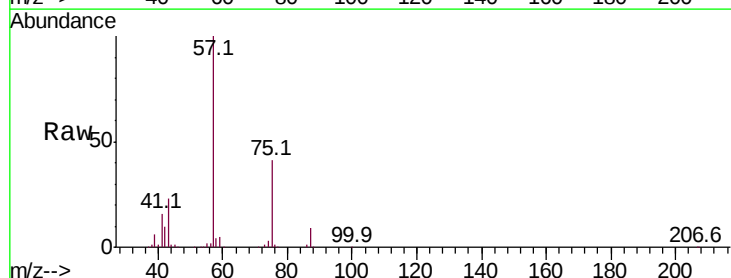
Acq: 22 Oct 2020 3:26

Tgt Ion: 43 Resp: 95354

Ion Ratio Lower Upper

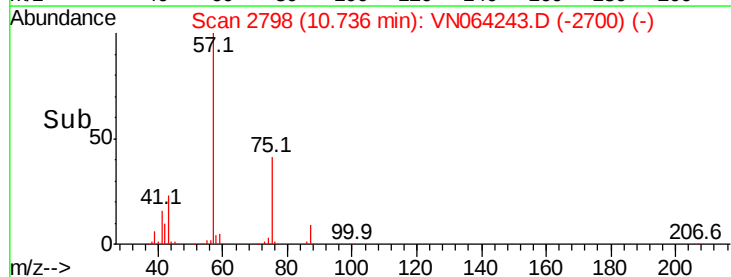
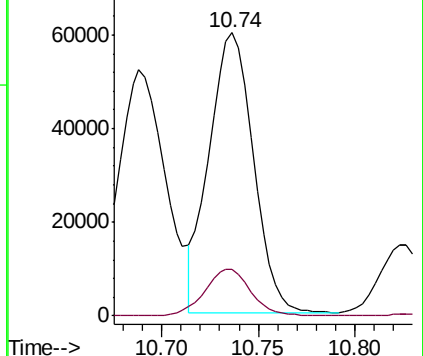
43 100

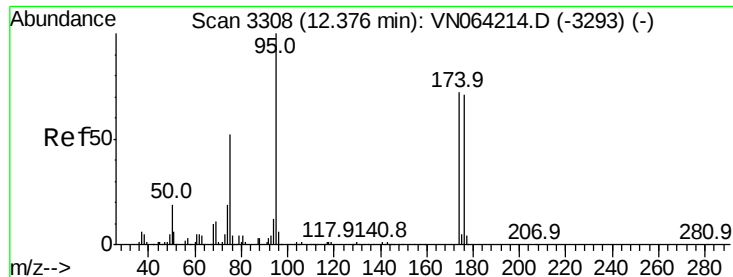
58 17.2 24.8 74.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

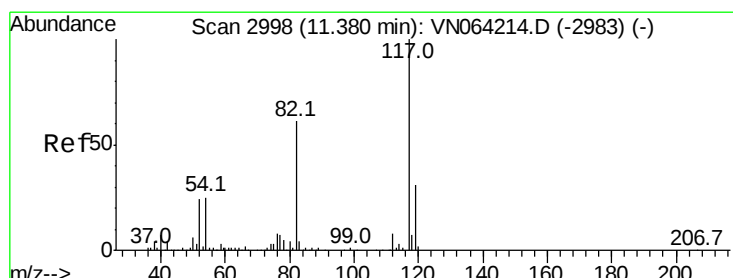
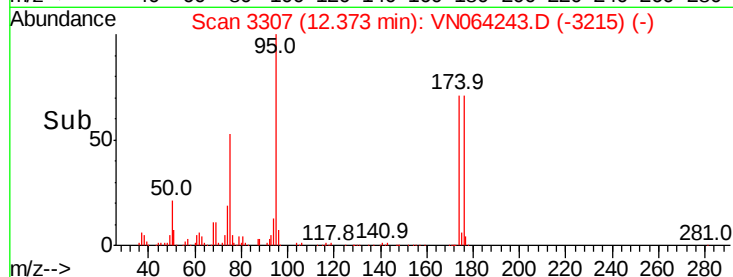
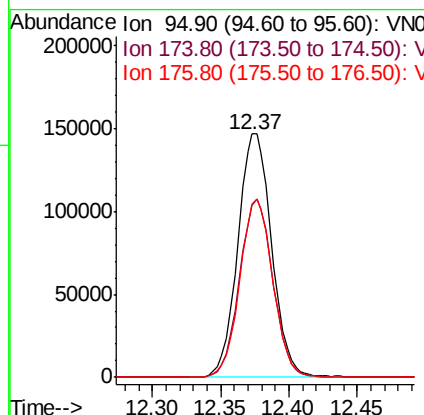
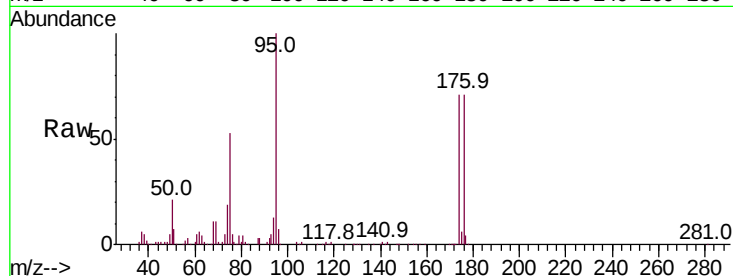




#62
4-Bromofluorobenzene
Concen: 56.982 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN064243.D
Acq: 22 Oct 2020 3:26

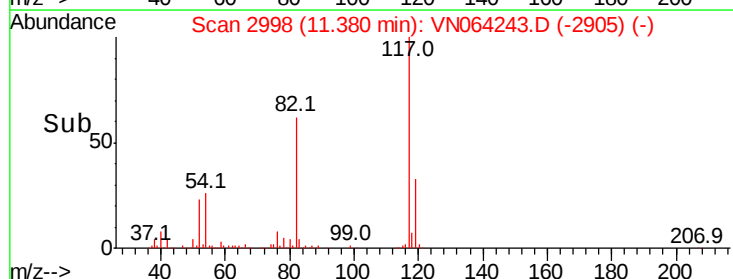
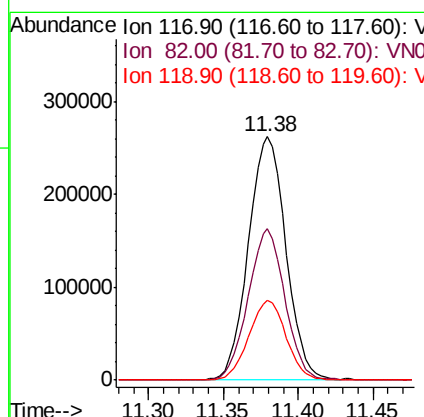
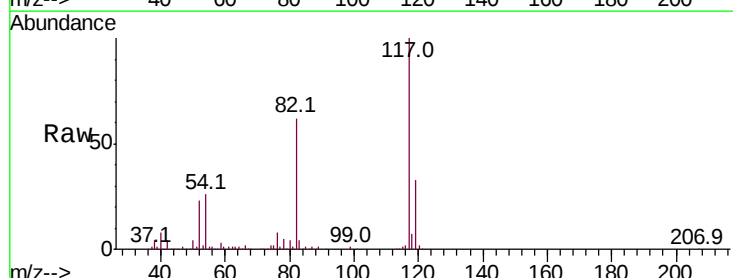
Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#08

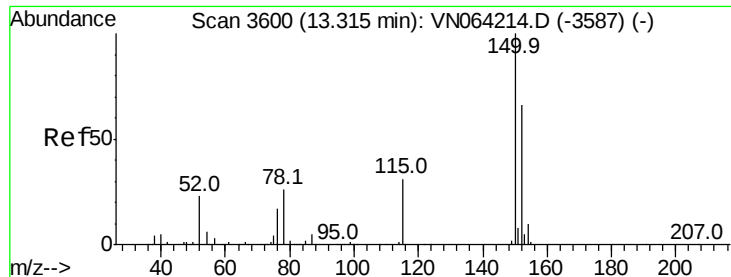
Tot Ion	95	Ratio	100	Resp	253132
Ion	95	Ratio	100	Lower	Upper
174	72.0	0.0	144.4		
176	71.0	0.0	139.2		



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064243.D
Acq: 22 Oct 2020 3:26

Tgt Ion	117	Ratio	100	Resp	457448
Ion	117	Ratio	100	Lower	Upper
82	62.0	48.8	73.2		
119	32.7	24.7	37.1		





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#08

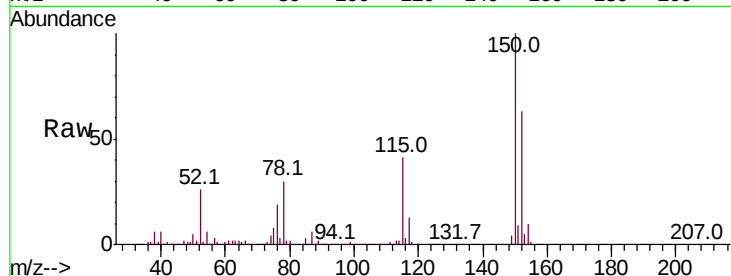
Tot Ion:152 Resp: 210986

Ion Ratio Lower Upper

152 100

115 65.1 32.0 96.2

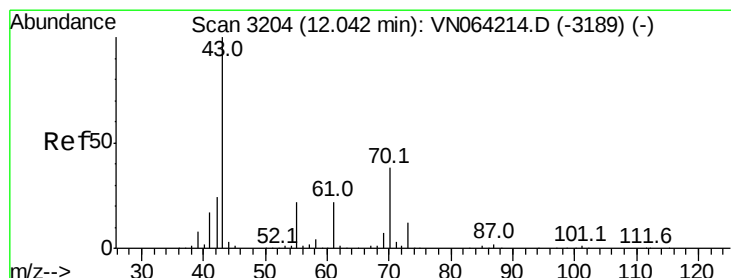
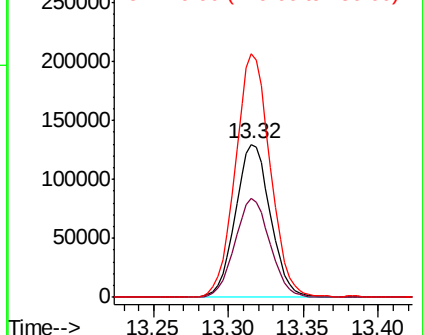
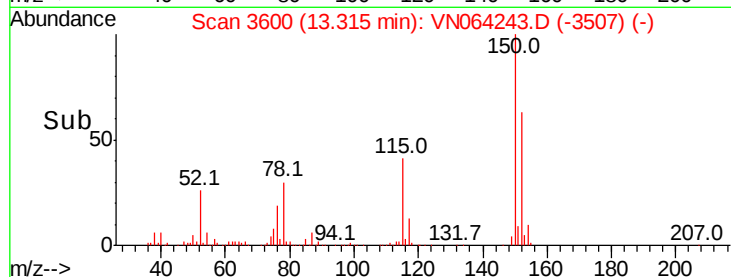
150 158.4 0.0 356.6



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-ethyl acetate

Concen: 0.779 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Tgt Ion: 43 Resp: 5417

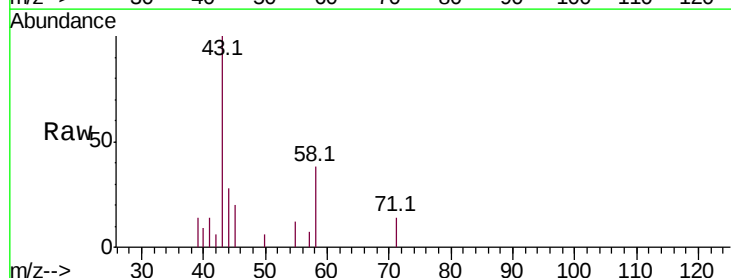
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 3.7 18.0 27.0#

61 0.0 17.4 26.2#

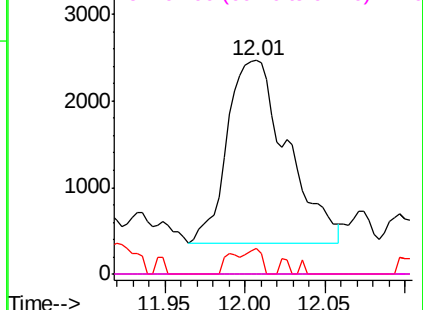
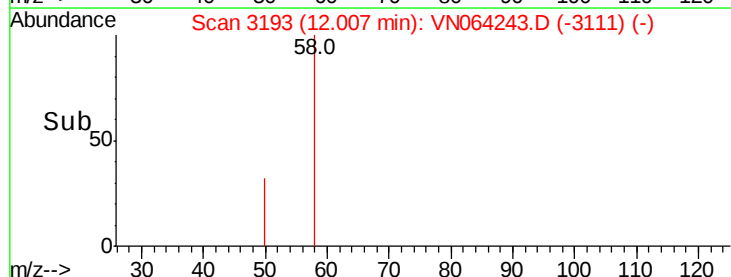


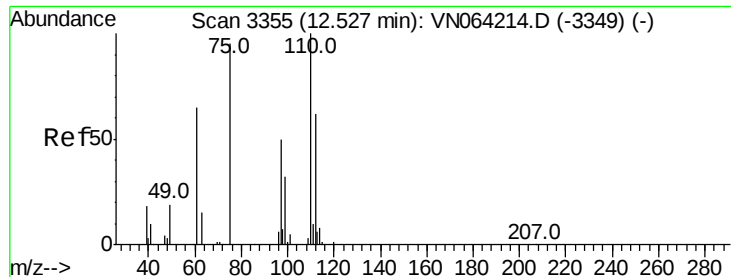
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.138 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Instrument :

MSVOA_N

ClientSampleId :

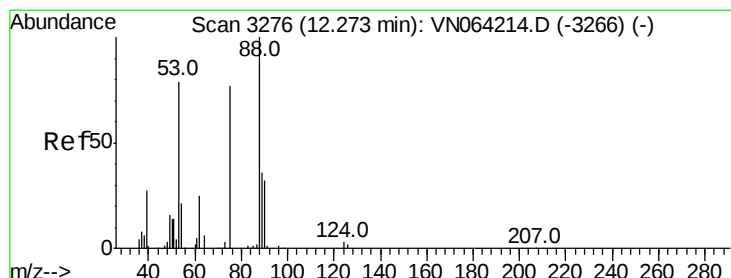
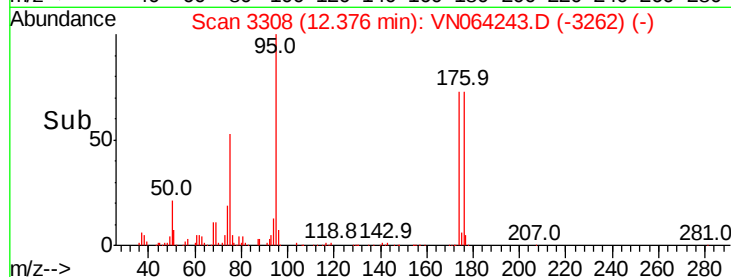
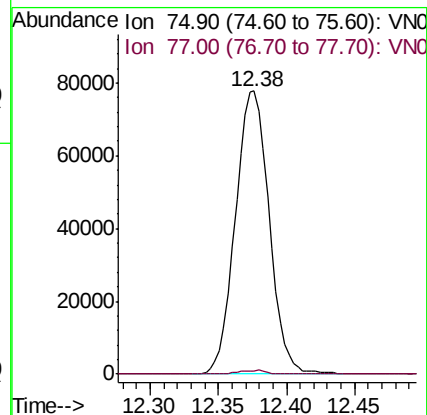
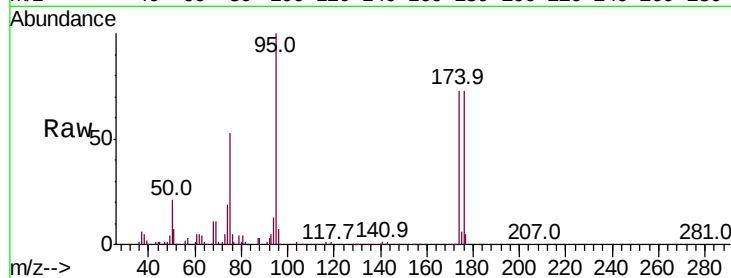
PB132513ZHE#08

Tot Ion: 75 Resp: 134051

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.089 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064243.D

Acq: 22 Oct 2020 3:26

Tgt Ion: 75 Resp: 134051

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 38.7 58.1#

