

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100520\
 Data File : VN063872.D
 Acq On : 5 Oct 2020 15:45
 Operator : JC/MD
 Sample : PB132063ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#04

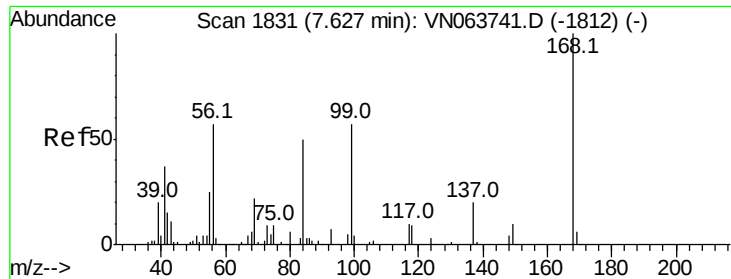
Quant Time: Oct 06 01:39:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	226649	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	429860	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	444591	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	179634	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	200702	53.60	ug/l	0.00
Spiked Amount			Recovery	=	107.20%	
35) Dibromofluoromethane	7.55	113	142407	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	
50) Toluene-d8	10.06	98	552248	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
62) 4-Bromofluorobenzene	12.38	95	215354	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	11503	9.980	ug/l	100
17) Carbon Disulfide	4.01	76	278	0.745	ug/l #	76
18) Methyl Acetate	4.28	43	841	0.281	ug/l	91
20) Methylene Chloride	4.51	84	11671	4.510	ug/l	89
25) 2-Butanone	6.80	43	2385	1.459	ug/l #	51
29) Tetrahydrofuran	7.16	42	727	0.663	ug/l #	58
31) Cyclohexane	7.62	56	6330	1.456	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	20743	4.763	ug/l #	52
38) Carbon Tetrachloride	7.62	117	24257	4.967	ug/l #	14
41) Methacrylonitrile	7.16	41	413	0.215	ug/l #	41
43) Isopropyl Acetate	8.13	43	81893	11.475	ug/l	97
45) 1,2-Dichloropropane	9.23	63	1380	0.411	ug/l #	44
48) Methyl methacrylate	9.14	41	5350	1.517	ug/l #	12
49) 1,4-Dioxane	9.23	88	188	3.752	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	8430	2.013	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	31917	5.961	ug/l #	68
56) Ethyl methacrylate	10.52	69	2062	0.471	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5747	1.101	ug/l #	43
59) 2-Hexanone	10.74	43	95531	30.706	ug/l #	53
71) Bromoform	12.38	173	650	0.243	ug/l #	1
74) N-amyl acetate	12.00	43	1311	2.422	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	121492	30.681	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2610	0.237	ug/l	82
81) trans-1,4-Dichloro-2-buten	12.38	75	121492	88.366	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: VN063872.D

Acq: 5 Oct 2020 15:45

Instrument :

MSVOA_N

ClientSampleId :

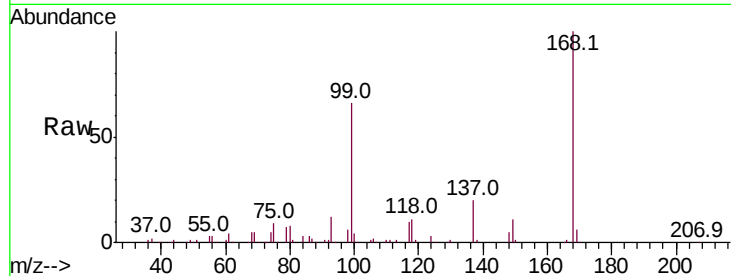
PB132063ZHE#04

Tot Ion:168 Resp: 226649

Ion Ratio Lower Upper

168 100

99 66.5 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

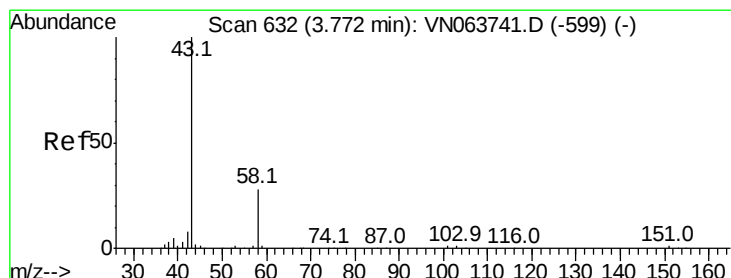
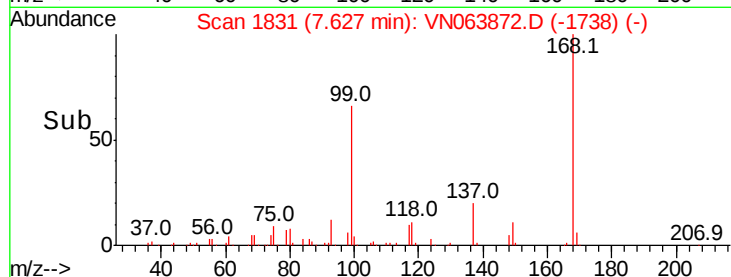
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 9.980 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063872.D

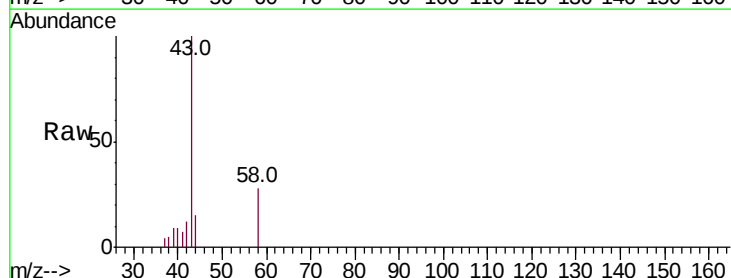
Acq: 5 Oct 2020 15:45

Tgt Ion: 43 Resp: 11503

Ion Ratio Lower Upper

43 100

58 27.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.78

4000

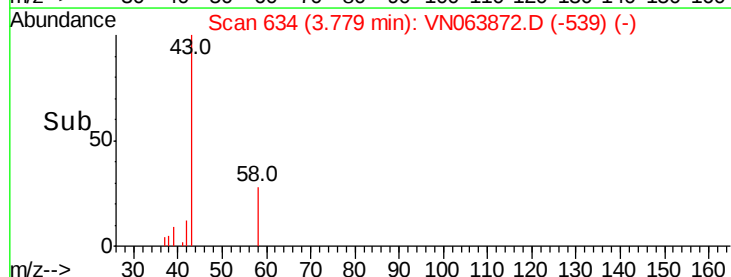
3000

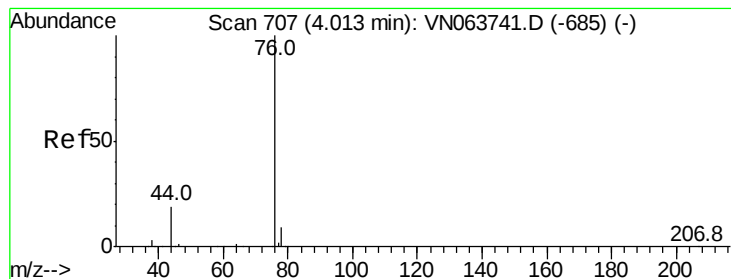
2000

1000

0

Time--> 3.70 3.75 3.80 3.85





#17

Carbon Disulfide

Concen: 0.745 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

Instrument :

MSVOA_N

ClientSampleId :

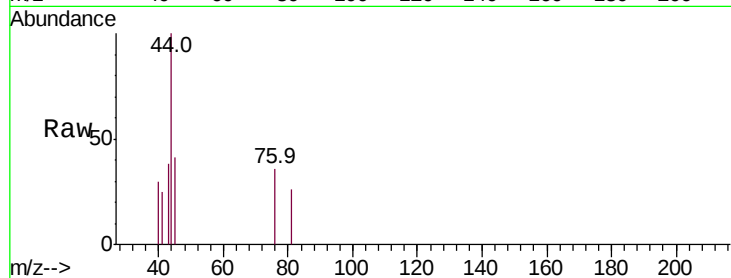
PB132063ZHE#04

Tot Ion: 76 Resp: 278

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.01

250

200

150

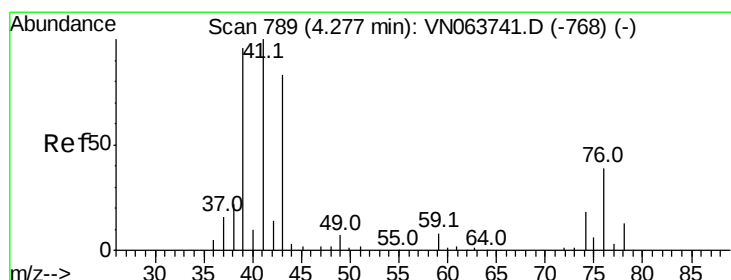
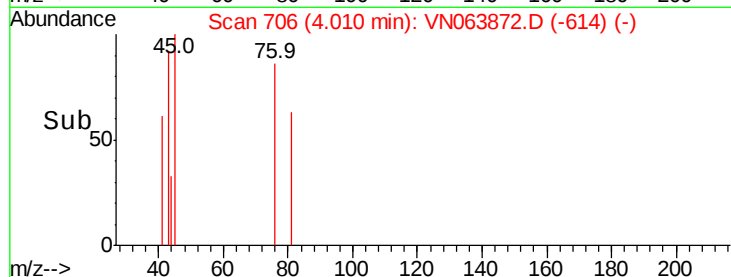
100

50

0

4.00 4.02 4.04

Time-->



#18

Methyl Acetate

Concen: 0.281 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN063872.D

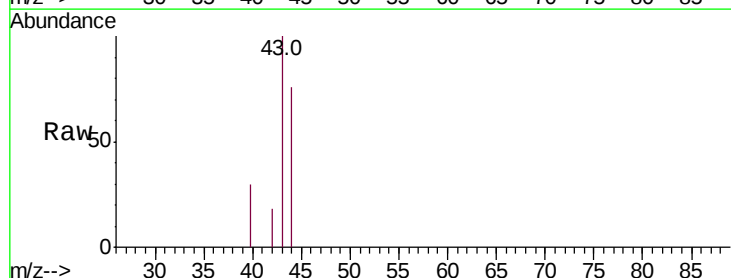
Acq: 5 Oct 2020 15:45

Tgt Ion: 43 Resp: 841

Ion Ratio Lower Upper

43 100

74 26.2 17.4 26.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.28

1200

1000

800

600

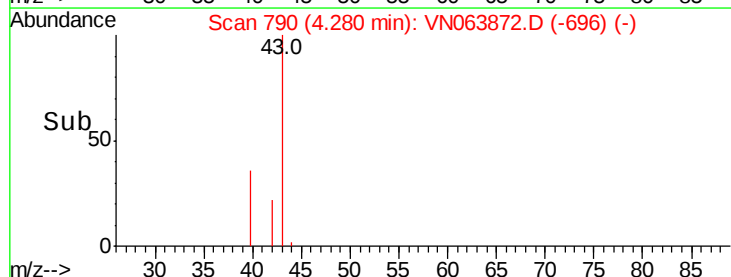
400

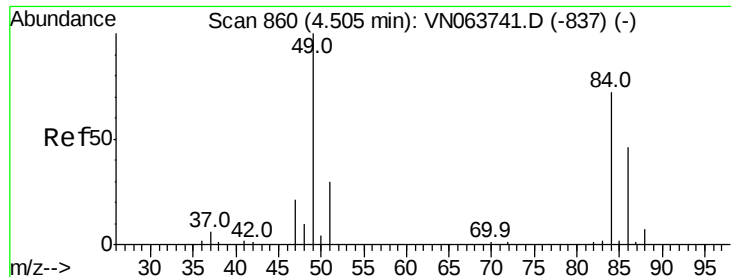
200

0

4.24 4.26 4.28

Time-->

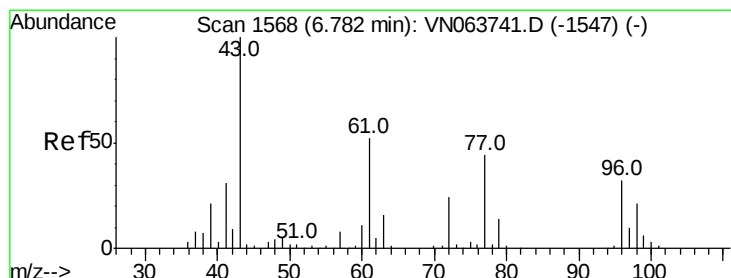
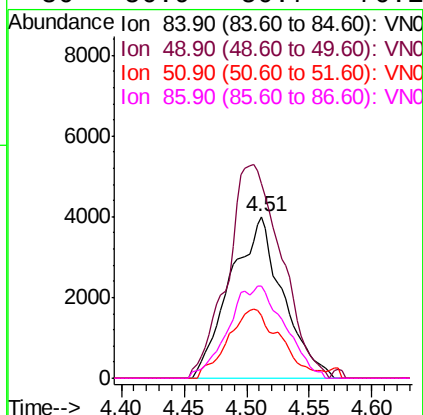
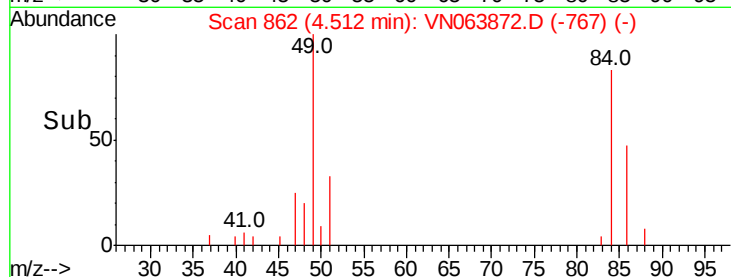
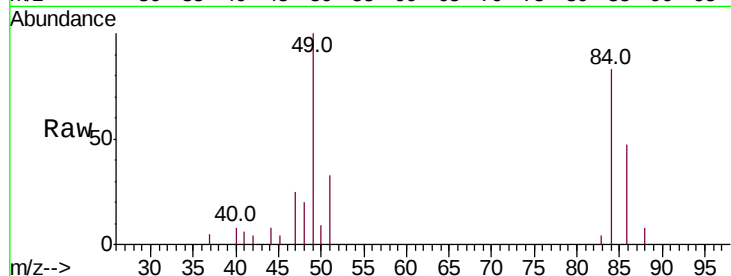




#20
Methvlene Chloride
Concen: 4.510 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063872.D
Acq: 5 Oct 2020 15:45

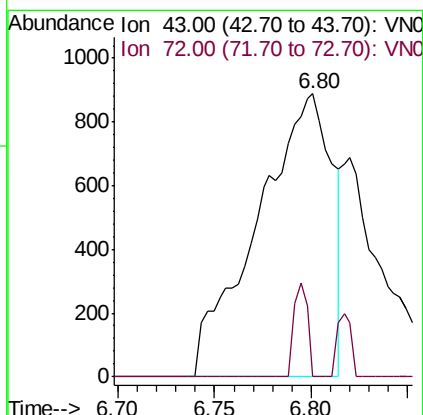
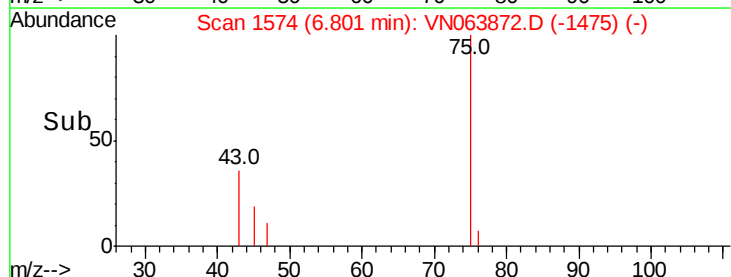
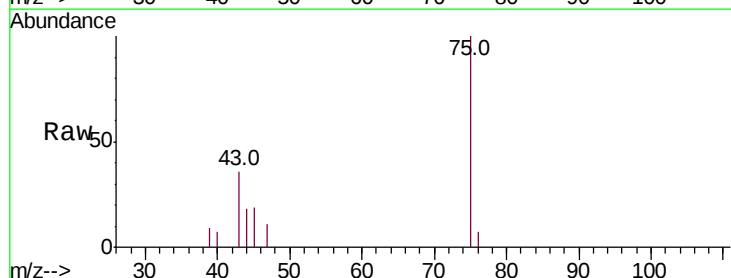
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#04

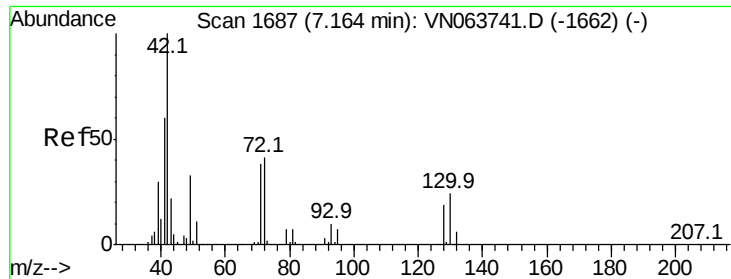
Tot Ion: 84 Resp: 11671
Ion Ratio Lower Upper
84 100
49 120.5 110.4 165.6
51 39.2 33.3 49.9
86 56.9 50.7 76.1



#25
2-Butanone
Concen: 1.459 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063872.D
Acq: 5 Oct 2020 15:45

Tgt Ion: 43 Resp: 2385
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#

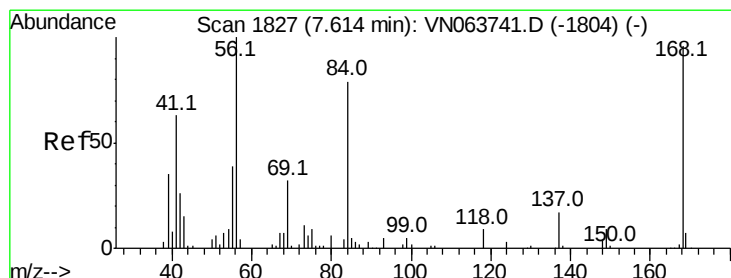
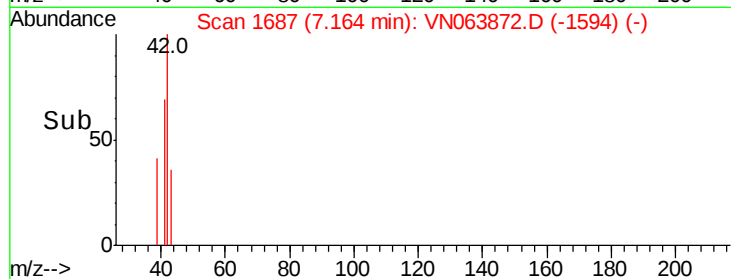
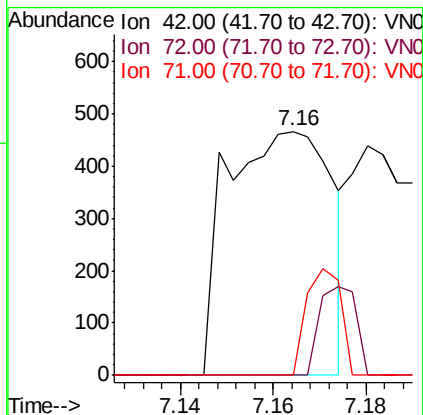
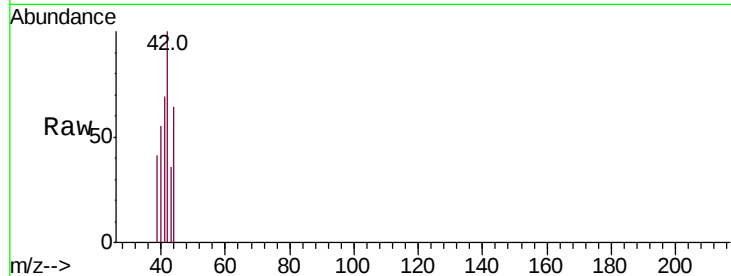




#29
Tetrahydrofuran
Concen: 0.663 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN063872.D
Acq: 5 Oct 2020 15:45

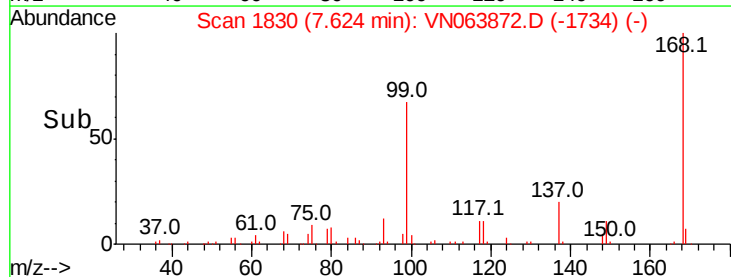
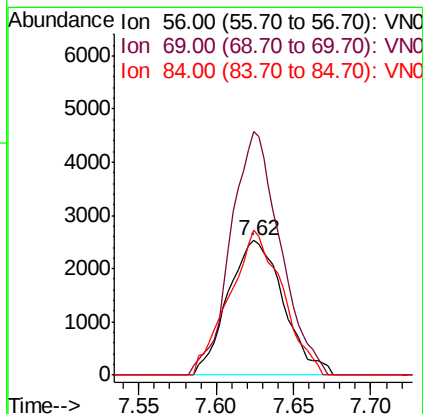
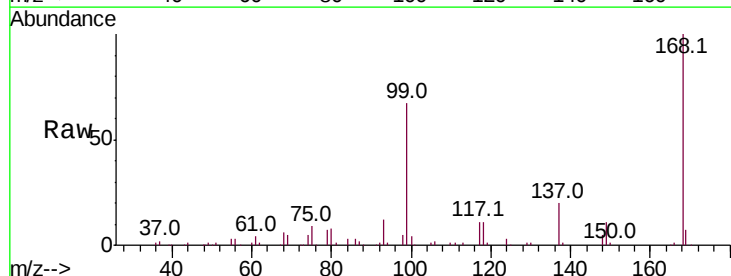
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#04

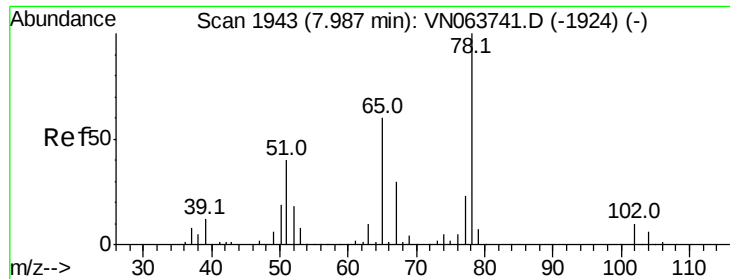
Tot Ion: 42 Resp: 727
Ion Ratio Lower Upper
42 100
72 12.8 32.8 49.2#
71 14.4 30.6 45.8#



#31
Cyclohexane
Concen: 1.456 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063872.D
Acq: 5 Oct 2020 15:45

Tgt Ion: 56 Resp: 6330
Ion Ratio Lower Upper
56 100
69 180.6 25.4 38.2#
84 107.7 63.3 94.9#





#33

1,2-Dichloroethane-d4

Concen: 53.601 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

Instrument :

MSVOA_N

ClientSampleId :

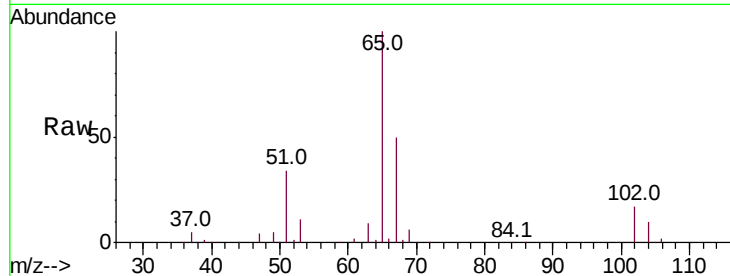
PB132063ZHE#04

Tot Ion: 65 Resp: 200702

Ion Ratio Lower Upper

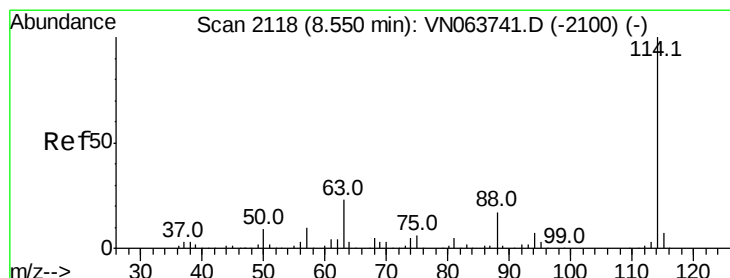
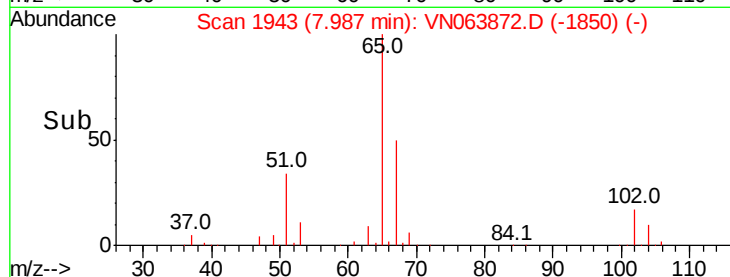
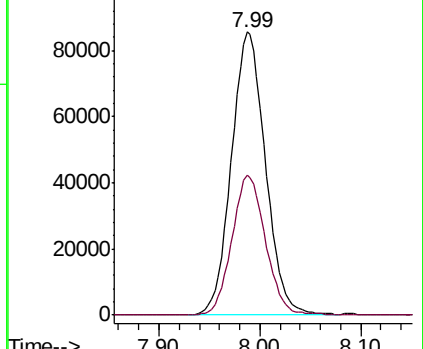
65 100

67 48.8 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063872.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063872.D (-1850) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

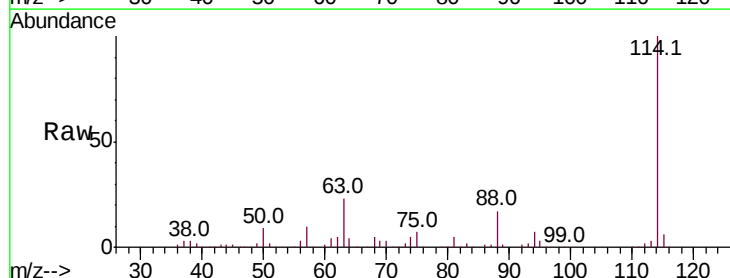
Tgt Ion: 114 Resp: 429860

Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.0

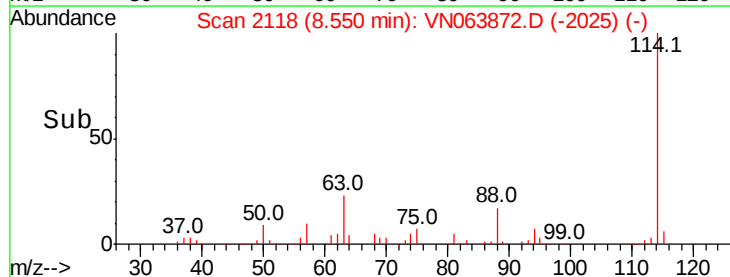
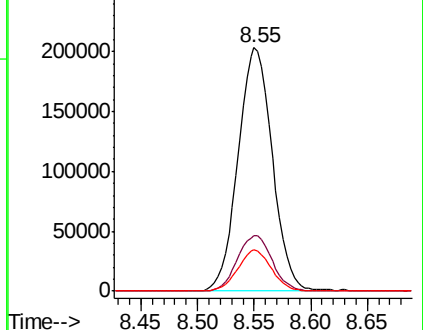
88 16.9 0.0 34.0

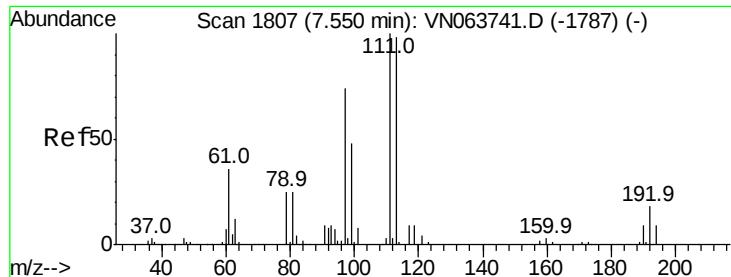


Abundance Ion 113.90 (113.60 to 114.60): VN063872.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN063872.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN063872.D (-2025) (-)

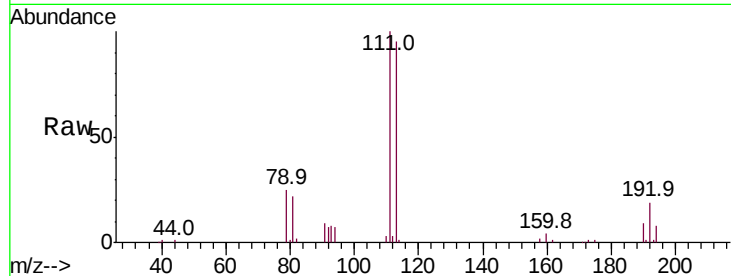




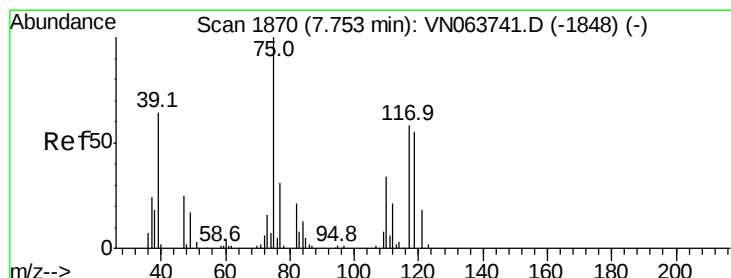
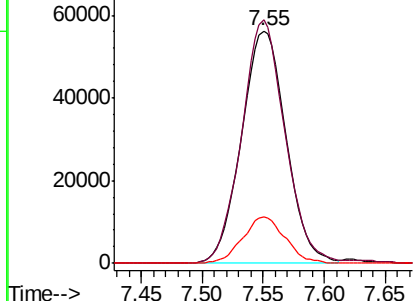
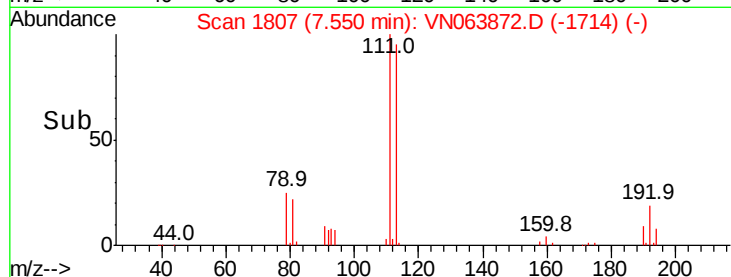
#35
 Dibromofluoromethane
 Concen: 47.744 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063872.D
 Acq: 5 Oct 2020 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#04

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.8	122.8
192	19.1	14.2	21.2

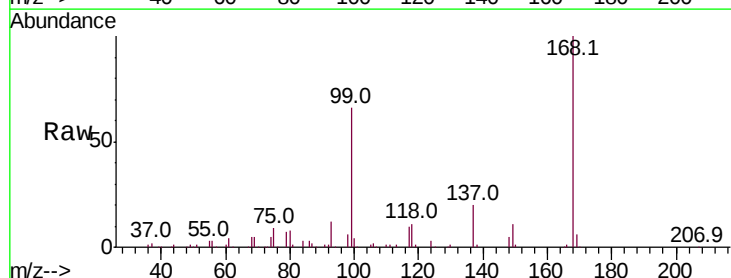


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

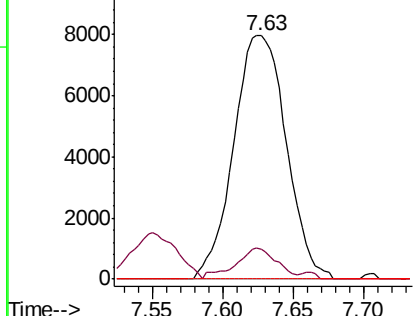
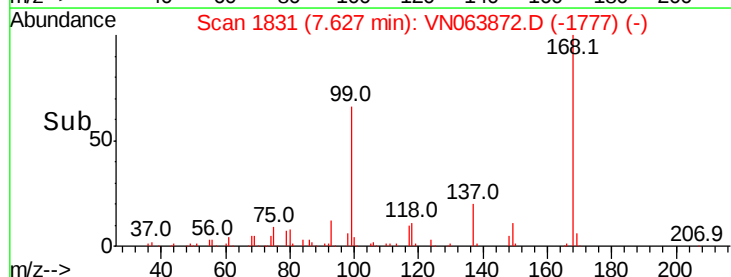


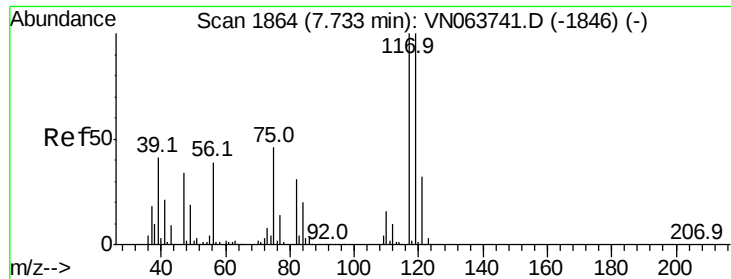
#36
 1,1-Dichloropropene
 Concen: 4.763 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063872.D
 Acq: 5 Oct 2020 15:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	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: 4.967 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#04

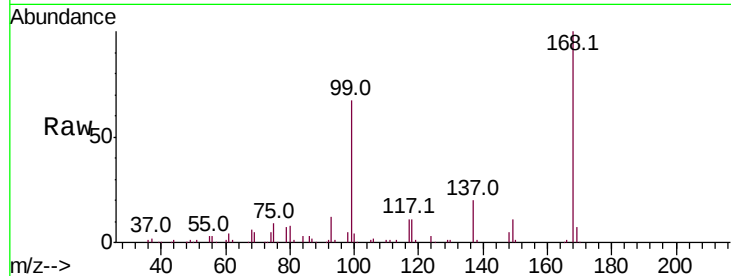
Tot Ion:117 Resp: 24257

Ion Ratio Lower Upper

117 100

119 5.3 80.1 120.1#

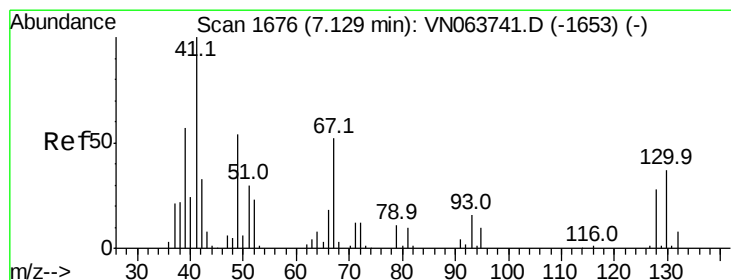
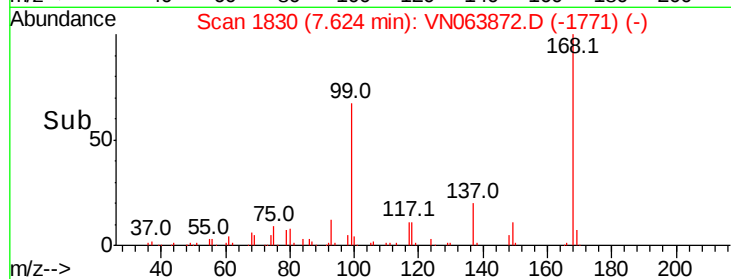
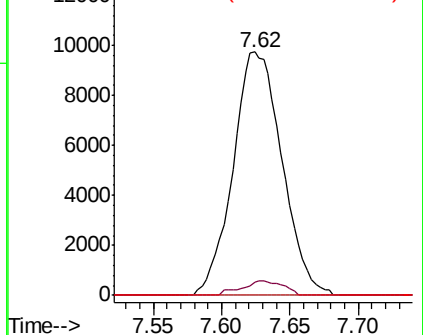
121 0.0 25.7 38.5#



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: 0.215 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. 0.03 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

Tgt Ion: 41 Resp: 413

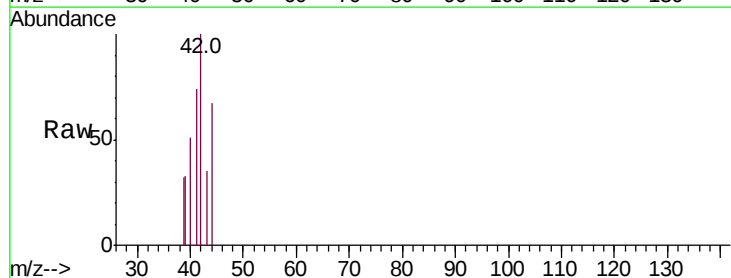
Ion Ratio Lower Upper

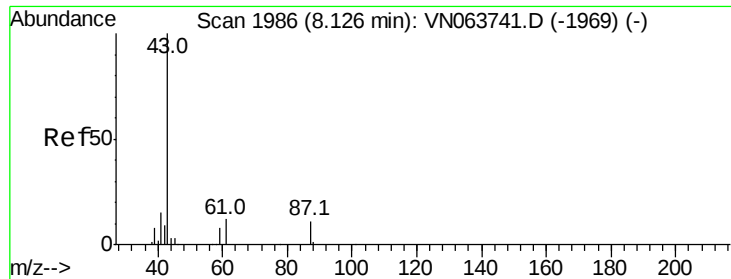
41 100

39 69.7 42.5 63.7#

67 0.0 57.4 86.2#

52 0.0 26.9 40.3#



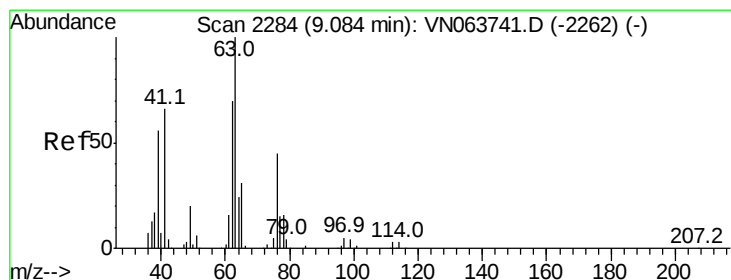
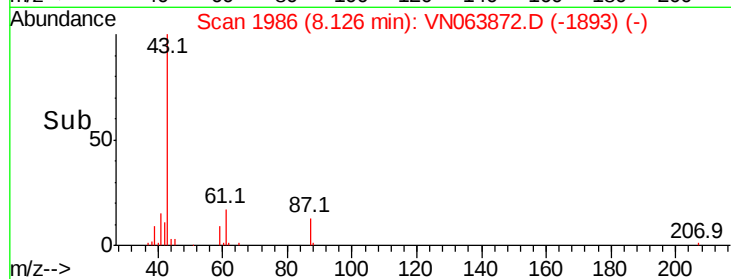
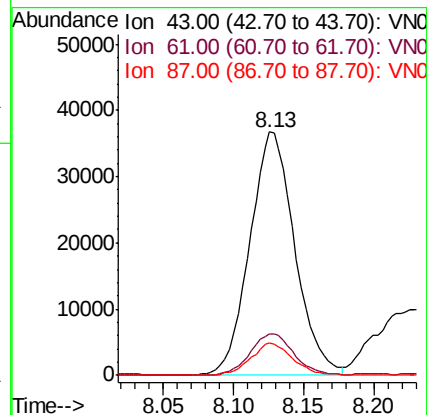
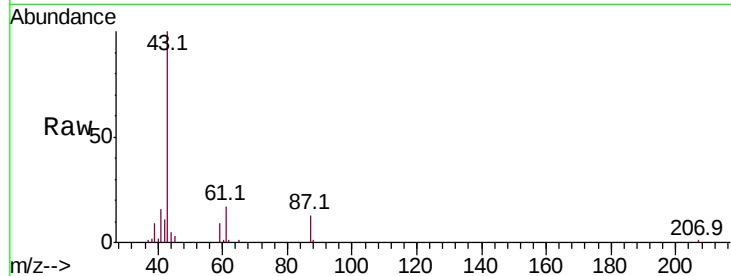


#43

Isopropyl Acetate
 Concen: 11.475 ug/l
 RT: 8.13 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VN063872.D
 Acq: 5 Oct 2020 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#04

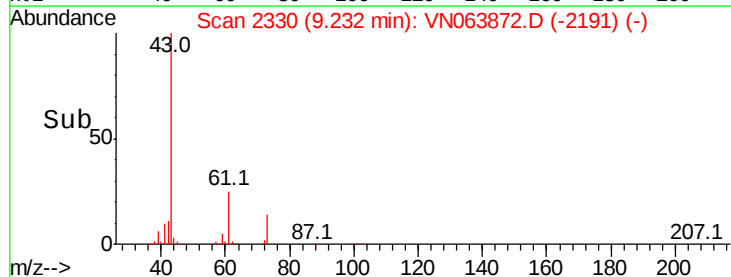
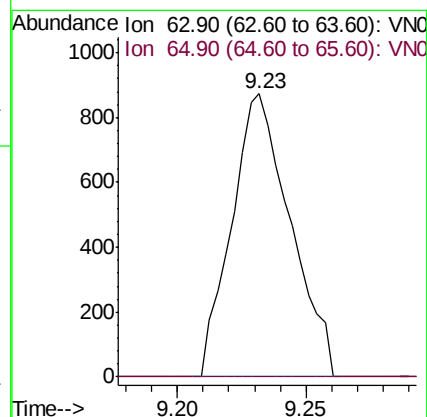
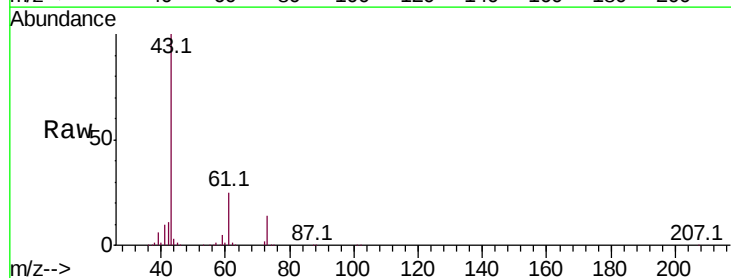
Tot Ion	Ratio	Lower	Upper
43	100		
61	16.6	14.2	21.4
87	12.3	9.0	13.6

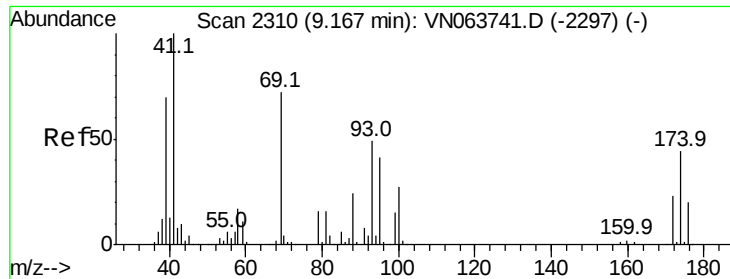


#45

1,2-Dichloropropane
 Concen: 0.411 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN063872.D
 Acq: 5 Oct 2020 15:45

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





#48

Methyl methacrylate

Concen: 1.517 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

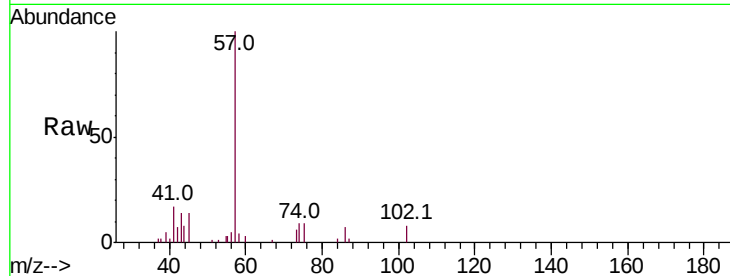
Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#04

Tot Ion: 41 Resp: 5350

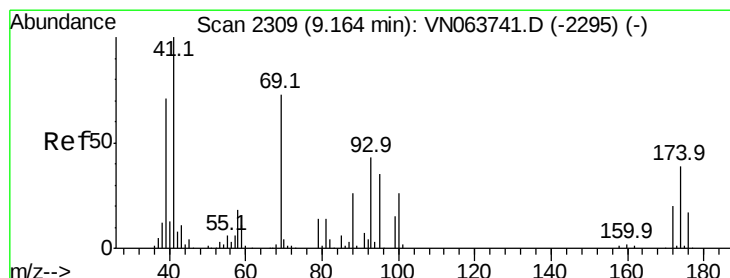
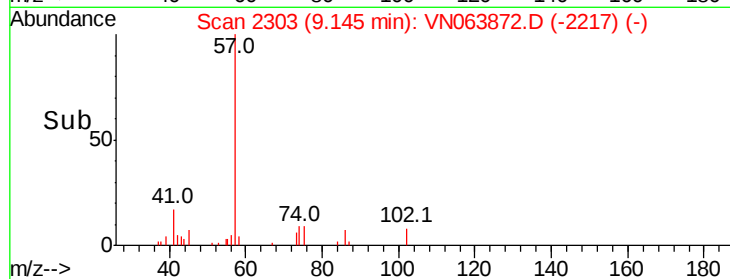
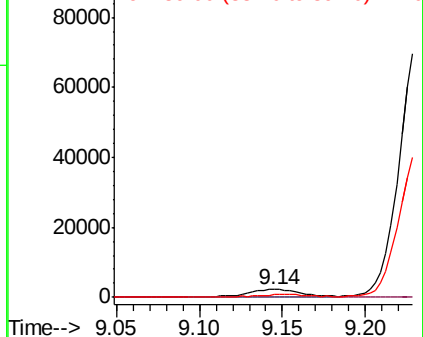
Ion	Ratio	Lower	Upper
41	100		
69	0.0	60.9	91.3#
39	0.0	57.5	86.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO



#49

1,4-Dioxane

Concen: 3.752 ug/l

RT: 9.23 min Scan# 2329

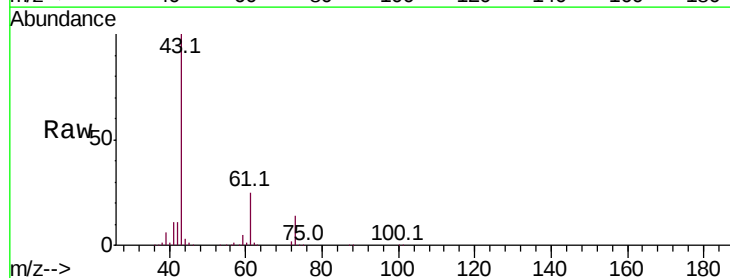
Delta R.T. 0.06 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

Tgt Ion: 88 Resp: 188

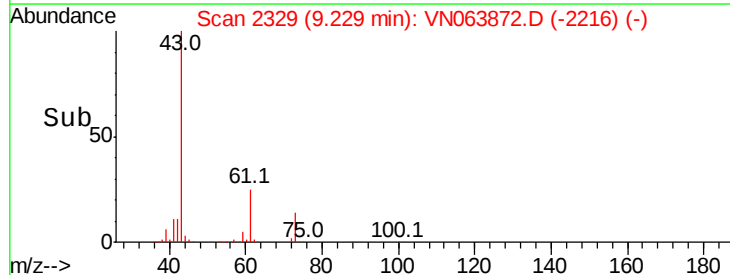
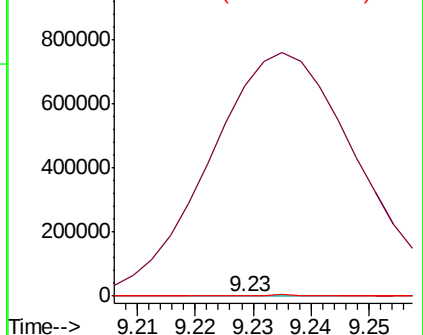
Ion	Ratio	Lower	Upper
88	100		
43	739151.6	33.1	49.7#
58	3396.3	58.9	88.3#

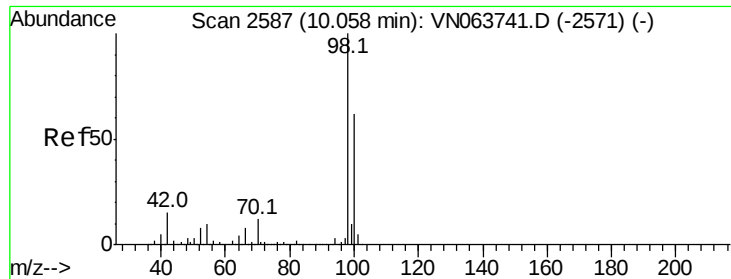


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

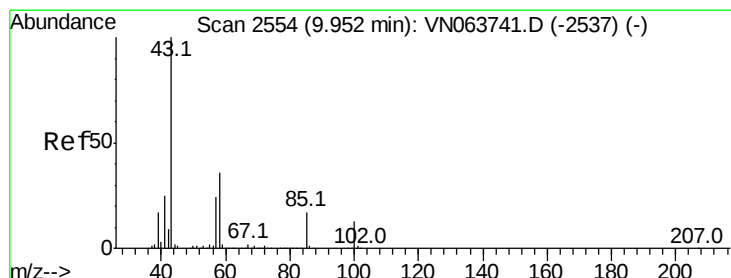
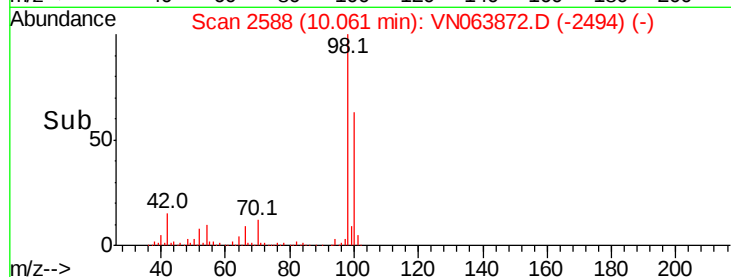
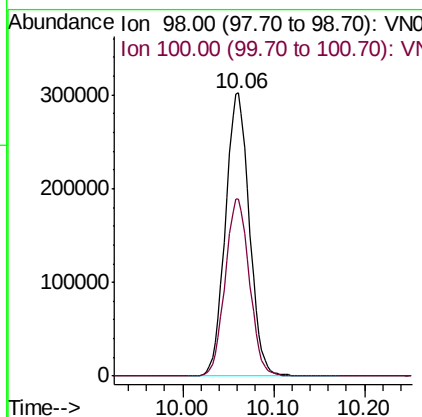
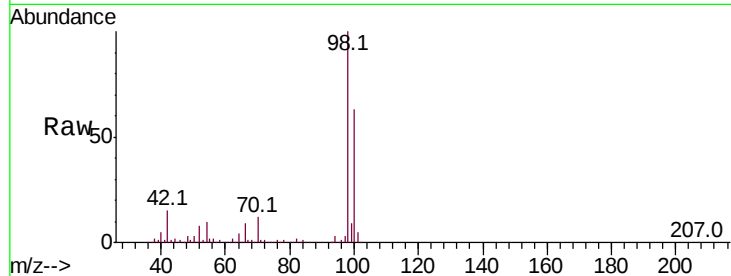




#50
Toluene-d8
Concen: 48.841 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN063872.D
Acq: 5 Oct 2020 15:45

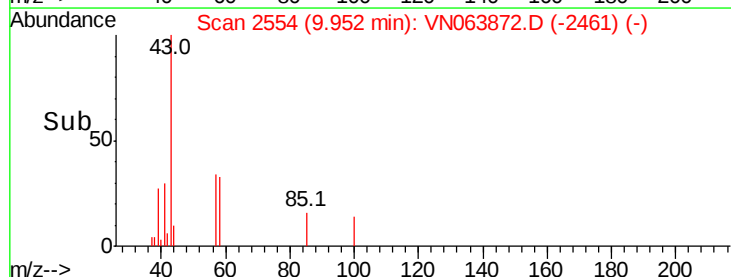
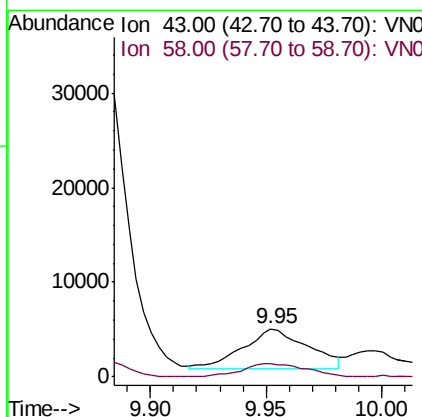
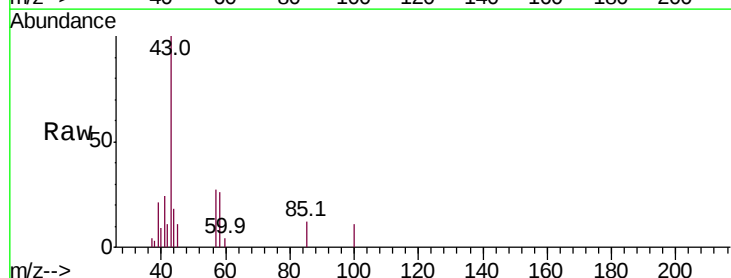
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#04

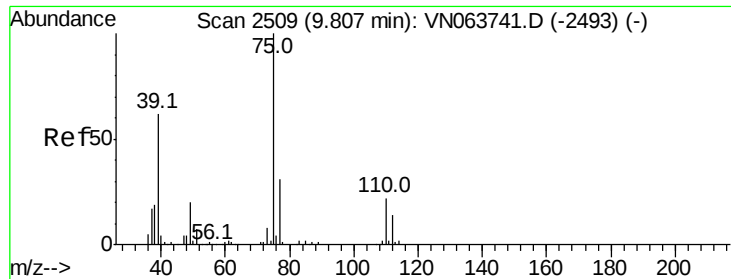
Tot Ion: 98 Resp: 552248
Ion Ratio Lower Upper
98 100
100 63.7 49.8 74.6



#51
4-Methyl-2-Pentanone
Concen: 2.013 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN063872.D
Acq: 5 Oct 2020 15:45

Tgt Ion: 43 Resp: 8430
Ion Ratio Lower Upper
43 100
58 32.1 28.4 42.6





#54

cis-1,3-Dichloropropene

Concen: 5.961 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#04

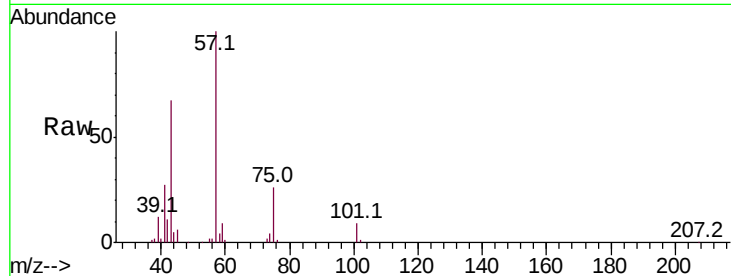
Tot Ion: 75 Resp: 31917

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

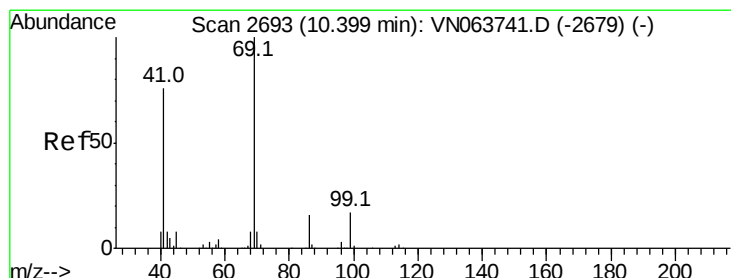
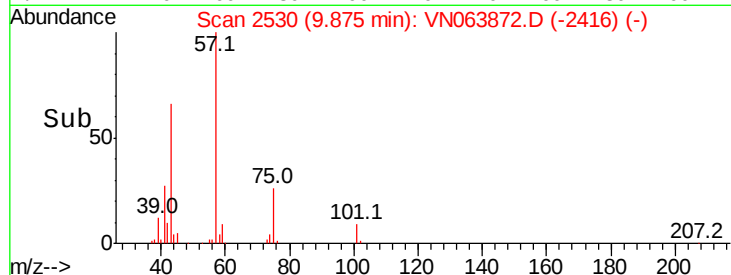
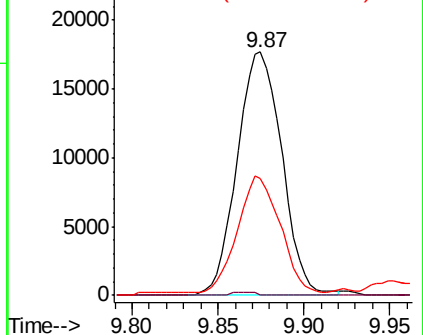
39 46.8 49.7 74.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.471 ug/l

RT: 10.52 min Scan# 2731

Delta R.T. 0.12 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

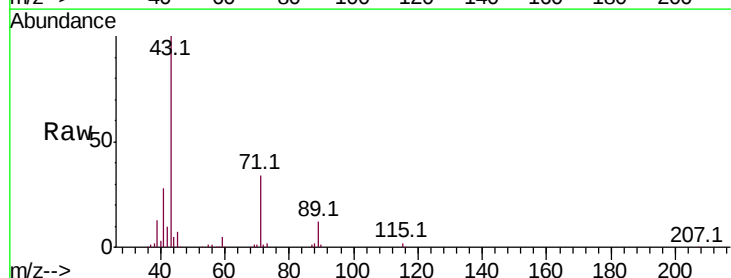
Tgt Ion: 69 Resp: 2062

Ion Ratio Lower Upper

69 100

41 4512.7 61.1 91.7#

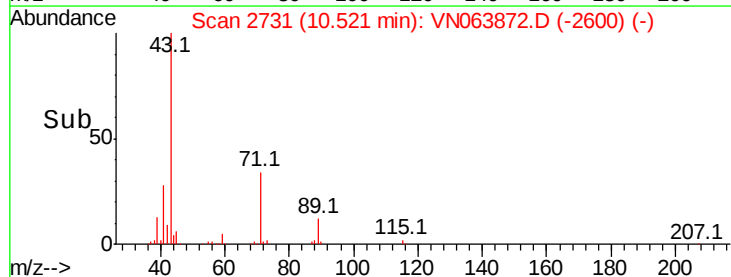
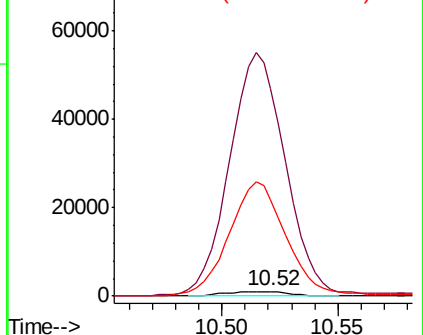
39 2147.3 42.2 63.4#

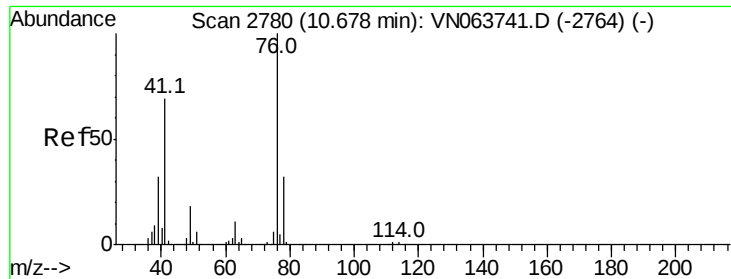


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.101 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

Instrument :

MSVOA_N

ClientSampleId :

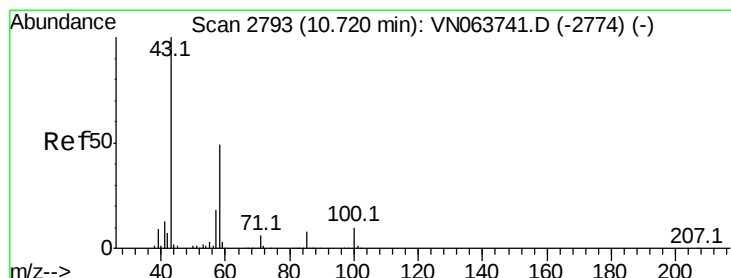
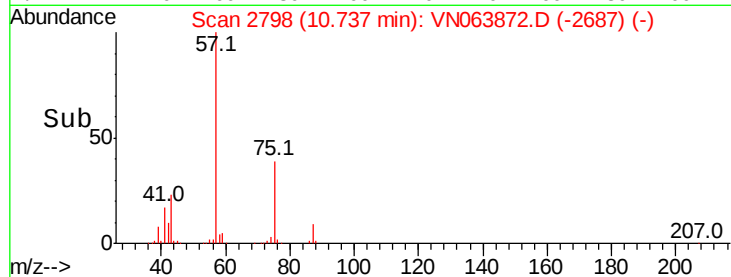
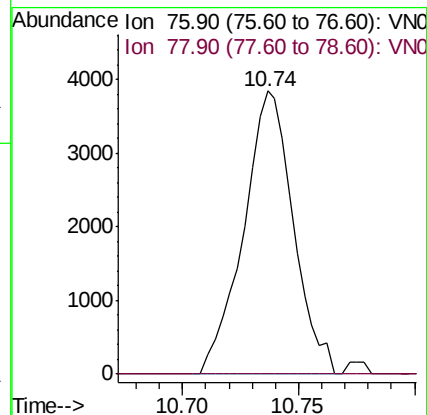
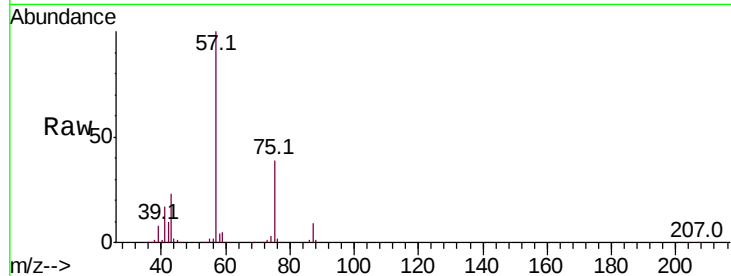
PB132063ZHE#04

Tot Ion: 76 Resp: 5747

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#



#59

2-Hexanone

Concen: 30.706 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063872.D

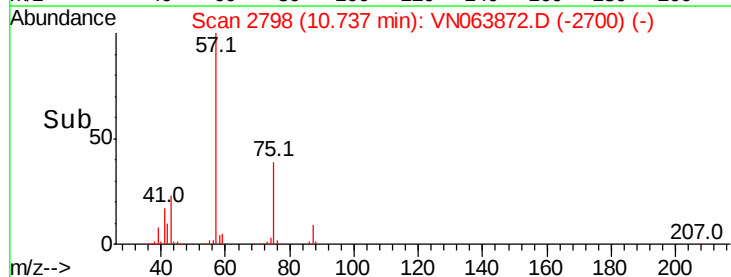
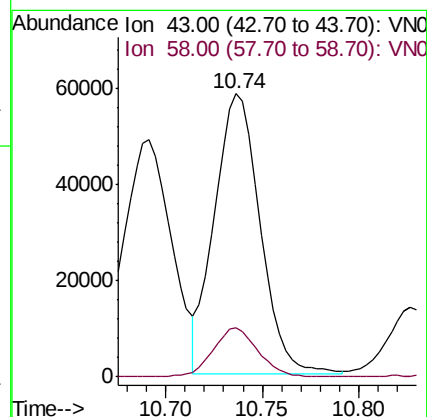
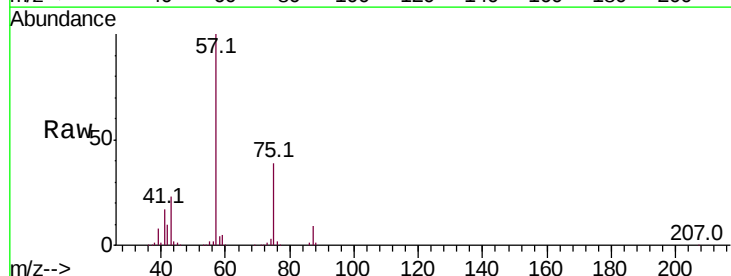
Acq: 5 Oct 2020 15:45

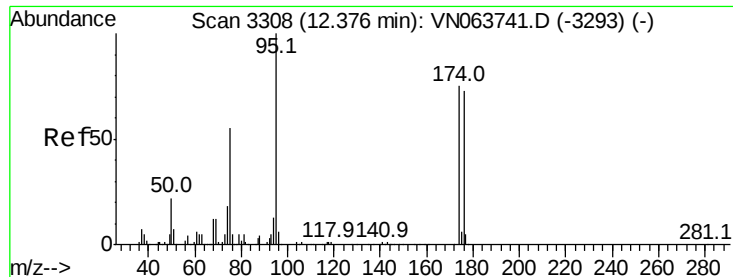
Tgt Ion: 43 Resp: 95531

Ion Ratio Lower Upper

43 100

58 17.3 24.6 73.8#





#62

4-Bromofluorobenzene

Concen: 50.666 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#04

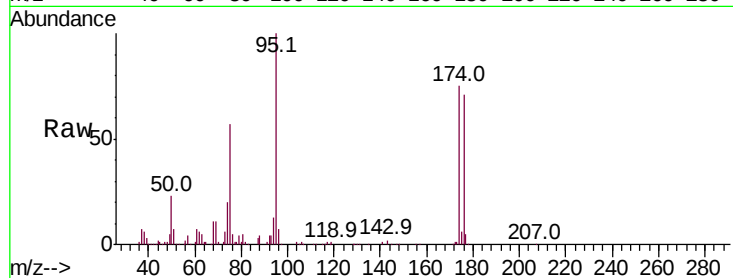
Tot Ion: 95 Resp: 215354

Ion Ratio Lower Upper

95 100

174 75.7 0.0 150.6

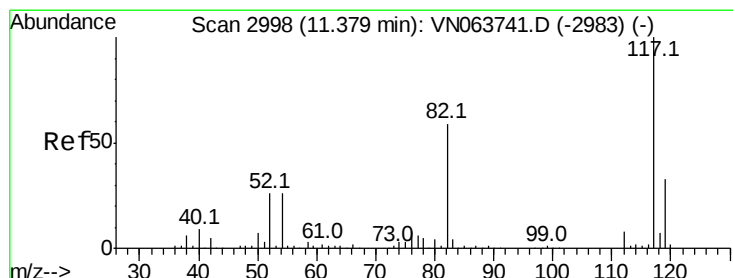
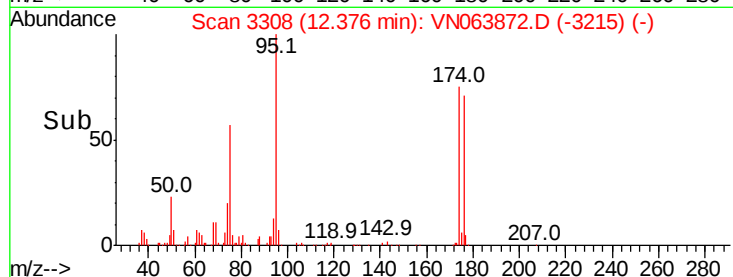
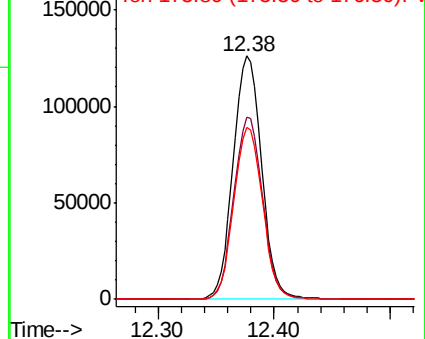
176 71.0 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN063872.D (-2905) (-)

Ion 173.80 (173.50 to 174.50): VN063872.D (-2905) (-)

Ion 175.80 (175.50 to 176.50): VN063872.D (-2905) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

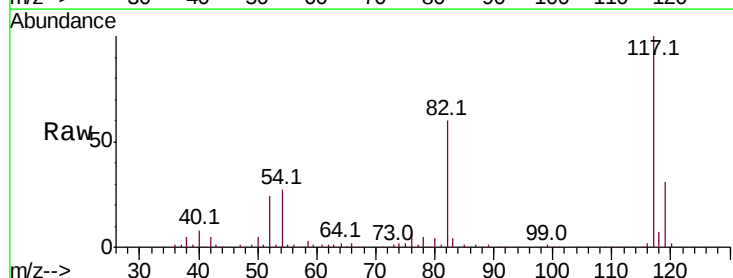
Tgt Ion: 117 Resp: 444591

Ion Ratio Lower Upper

117 100

82 60.5 47.4 71.2

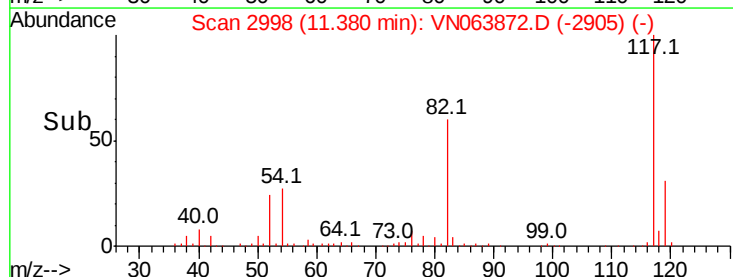
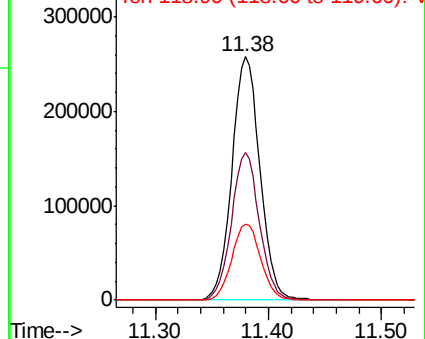
119 31.4 26.4 39.6

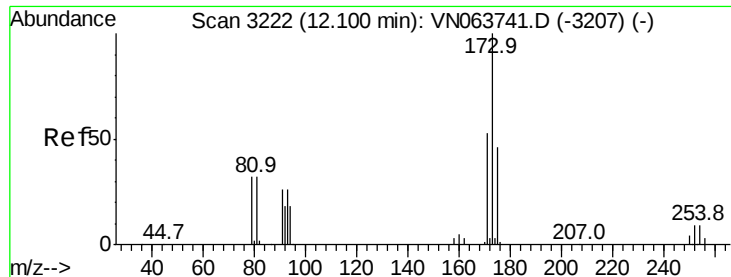


Abundance Ion 116.90 (116.60 to 117.60): VN063872.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063872.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063872.D (-2905) (-)





#71

Bromoform

Concen: 0.243 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN063872.D

Acq: 5 Oct 2020 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#04

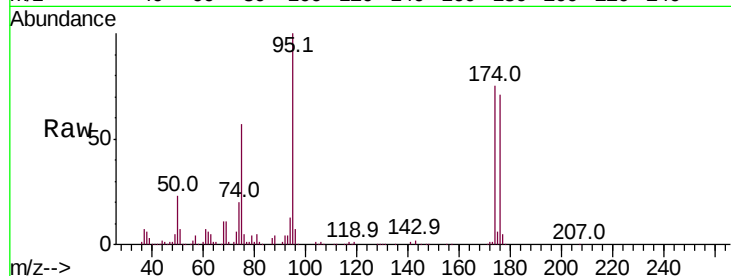
Tot Ion:173 Resp: 650

Ion Ratio Lower Upper

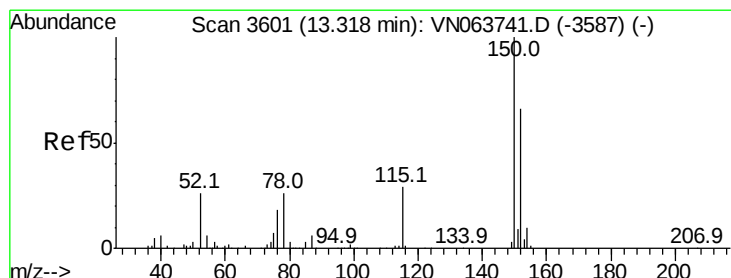
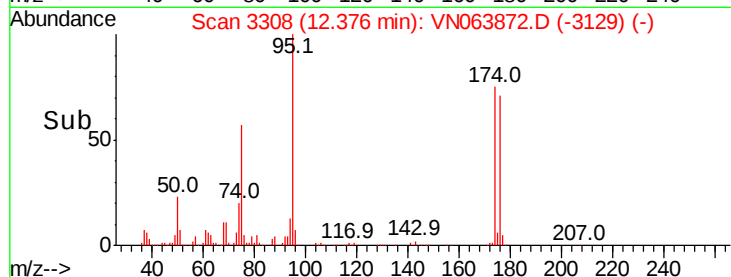
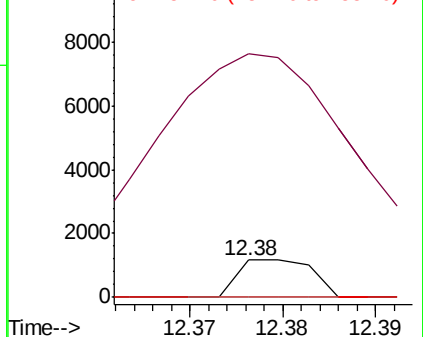
173 100

175 1605.1 23.5 70.5#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VN063872.D

Acq: 5 Oct 2020 15:45

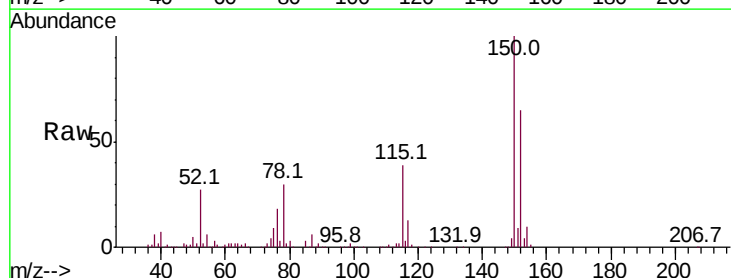
Tgt Ion:152 Resp: 179634

Ion Ratio Lower Upper

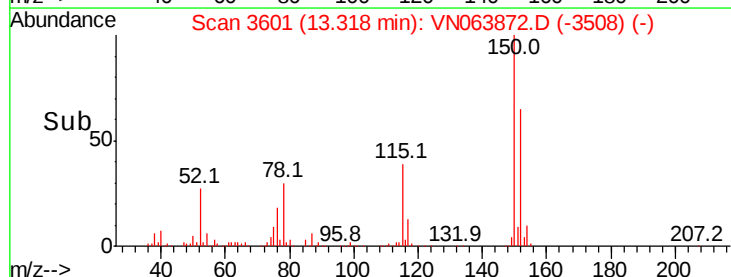
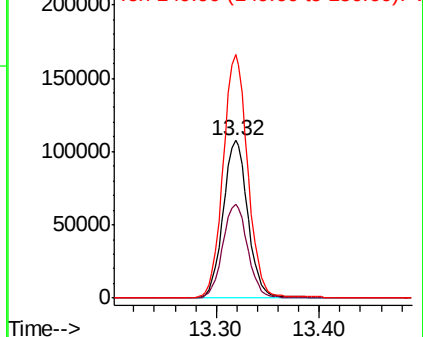
152 100

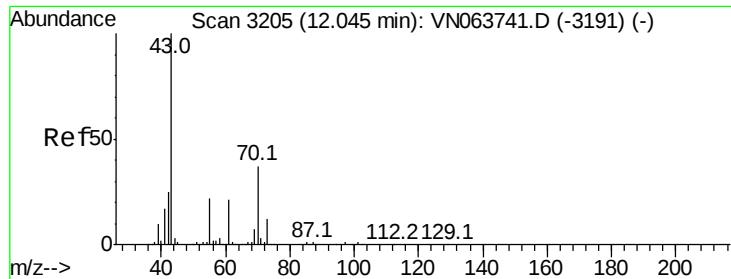
115 60.1 31.3 93.8

150 154.8 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

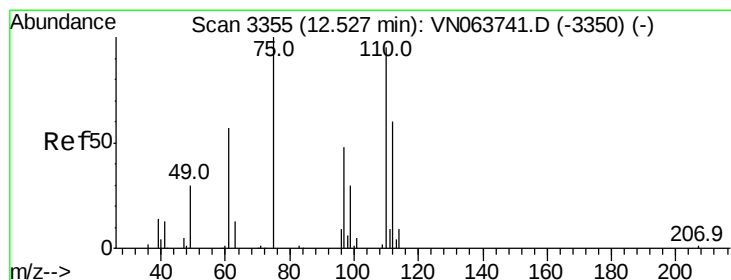
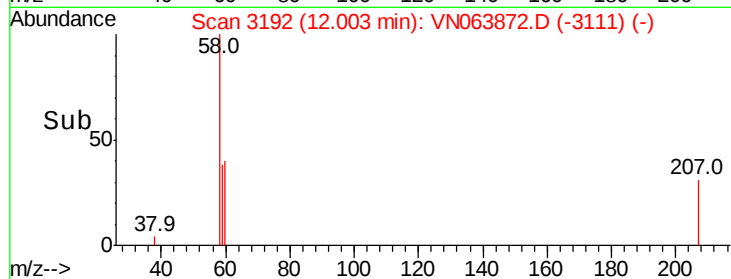
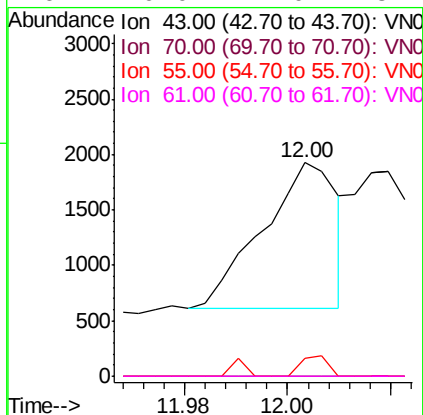
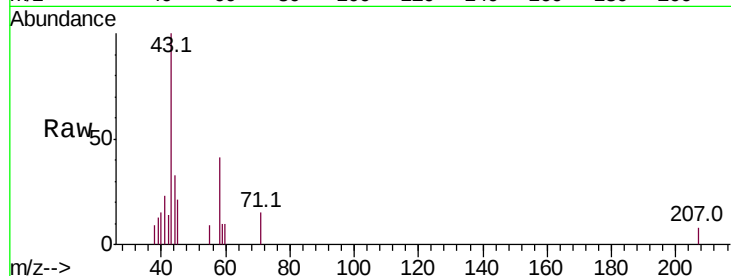




#74
N-amyl acetate
Concen: 2.422 ug/l
RT: 12.00 min Scan# 3192
Delta R.T. -0.04 min
Lab File: VN063872.D
Acq: 5 Oct 2020 15:45

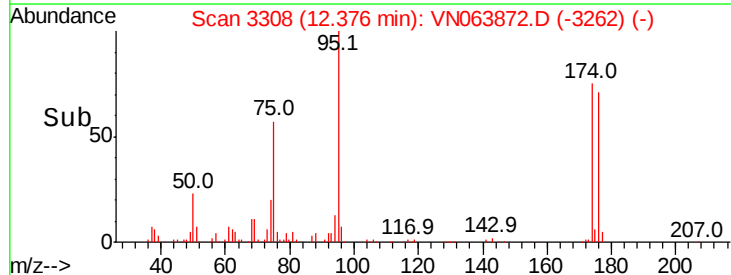
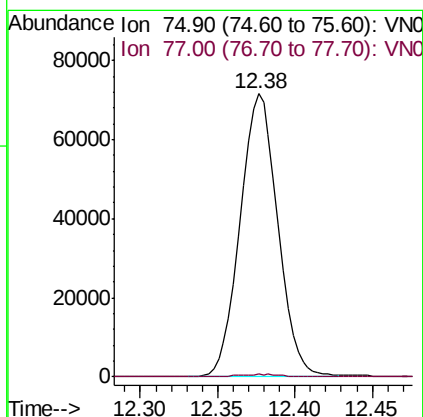
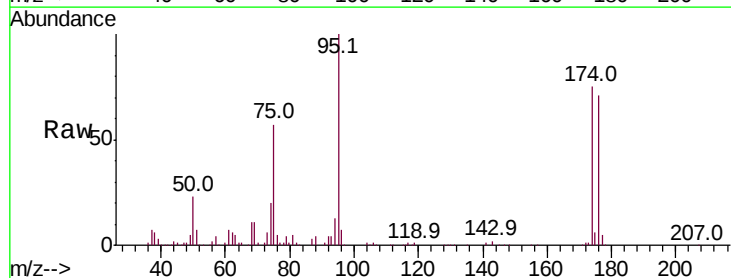
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#04

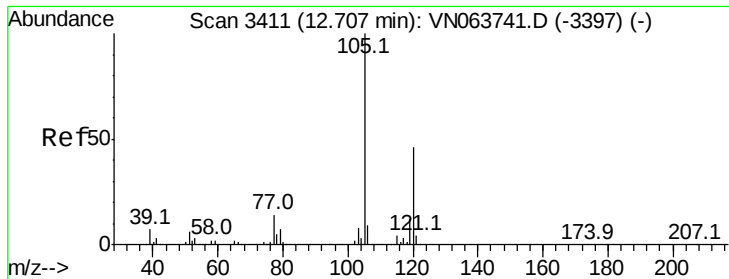
Tot Ion: 43 Resp: 1311
Ion Ratio Lower Upper
43 100
70 0.0 29.8 44.8#
55 5.1 17.9 26.9#
61 0.0 17.0 25.4#



#76
1,2,3-Trichloropropane
Concen: 30.681 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063872.D
Acq: 5 Oct 2020 15:45

Tgt Ion: 75 Resp: 121492
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#

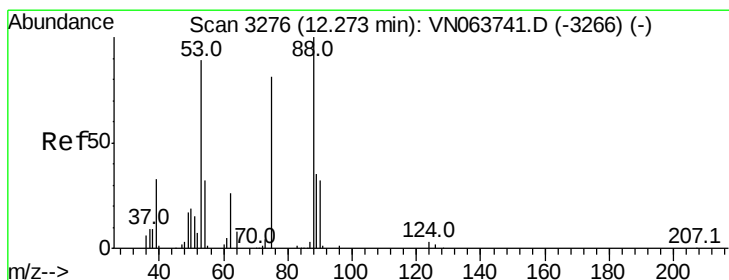
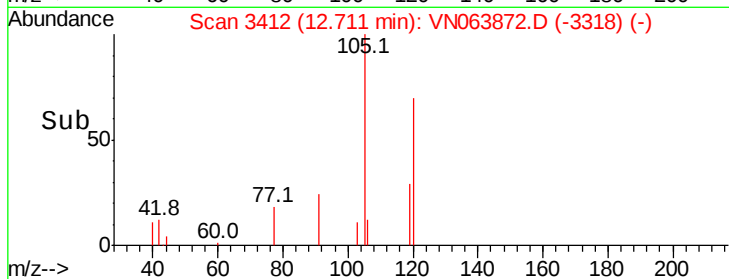
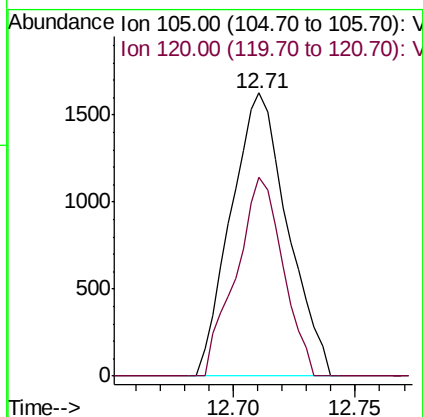
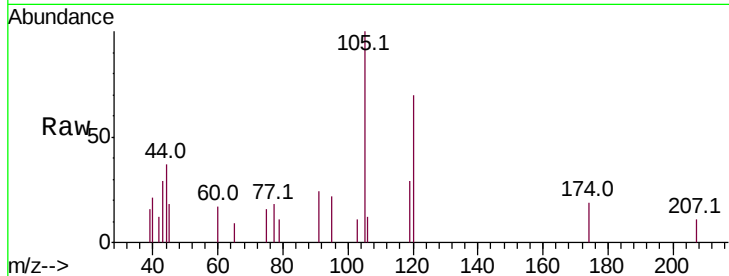




#80
 1,3,5-Trimethylbenzene
 Concen: 0.237 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN063872.D
 Acq: 5 Oct 2020 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#04

Tot Ion:105 Resp: 2610
 Ion Ratio Lower Upper
 105 100
 120 58.4 23.3 69.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.366 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063872.D
 Acq: 5 Oct 2020 15:45

Tgt Ion: 75 Resp: 121492
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.2 132.2#
 89 0.0 36.0 54.0#

