

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070120\
 Data File : VN062319.D
 Acq On : 2 Jul 2020 3:56
 Operator : JC/MD
 Sample : PB129873ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129873ZHE#05

Quant Time: Jul 02 06:59:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

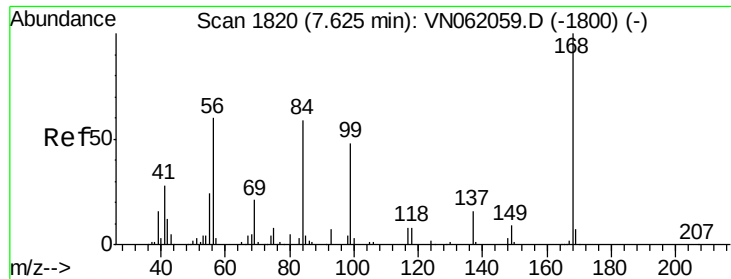
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	195114	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	414463	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	406496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	141700	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	162044	59.18	ug/l	0.00
Spiked Amount 50.000			Recovery =	118.36%		
35) Dibromofluoromethane	7.55	113	129879	48.85	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.70%		
50) Toluene-d8	10.06	98	544801	51.26	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.52%		
62) 4-Bromofluorobenzene	12.38	95	173543	48.33	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.66%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	280	Below Cal	#	41
11) Tert butyl alcohol	4.73	59	254	0.646	ug/l #	72
16) Acetone	3.78	43	12124	10.221	ug/l	97
18) Methyl Acetate	4.28	43	3807	1.749	ug/l #	85
20) Methylene Chloride	4.50	84	7741	2.875	ug/l	97
25) 2-Butanone	6.79	43	1367	1.021	ug/l	92
29) Tetrahydrofuran	7.16	42	469	0.535	ug/l #	66
31) Cyclohexane	7.62	56	5248	1.387	ug/l #	28
36) 1,1-Dichloropropene	7.63	75	18366	4.409	ug/l #	48
38) Carbon Tetrachloride	7.62	117	20475	5.213	ug/l #	16
43) Isopropyl Acetate	8.13	43	71296	12.678	ug/l	97
45) 1,2-Dichloropropane	9.24	63	1648	0.526	ug/l #	43
48) Methyl methacrylate	9.14	41	4201	1.666	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	6803	2.071	ug/l	100
54) cis-1,3-Dichloropropene	9.88	75	33685	6.706	ug/l #	68
56) Ethyl methacrylate	10.51	69	1800	0.443	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6236	1.190	ug/l #	42
59) 2-Hexanone	10.74	43	82879	34.933	ug/l #	49
71) Bromoform	12.38	173	1477	0.673	ug/l #	1
74) N-amyl acetate	12.00	43	3232	4.090	ug/l #	40
76) 1,2,3-Trichloropropane	12.38	75	90643	27.173	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6215	0.699	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.38	75	90643	79.356	ug/l #	13

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

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Acq On : 2 Jul 2020 3:56
Operator : JC/MD
Sample : PB129873ZHE#05
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 41 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Instrument :

MSVOA_N

ClientSampleId :

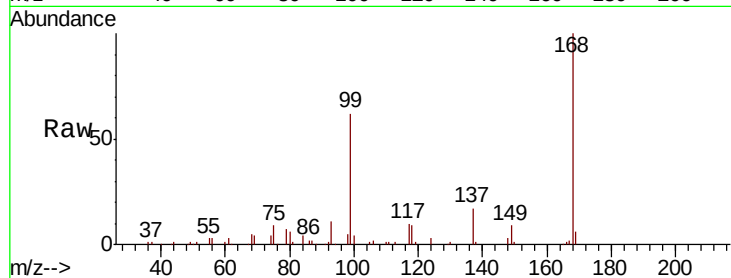
PB129873ZHE#05

Tot Ion:168 Resp: 195114

Ion Ratio Lower Upper

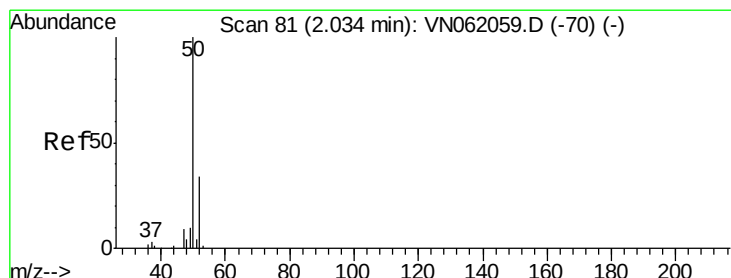
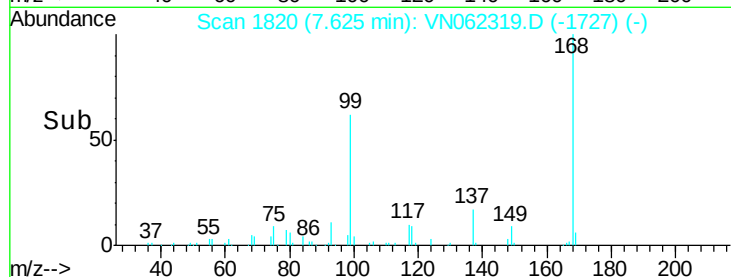
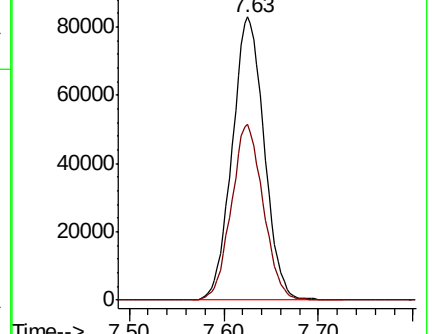
168 100

99 61.9 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062319.D

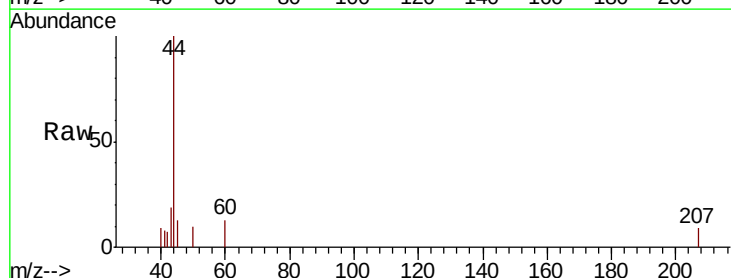
Acq: 2 Jul 2020 3:56

Tgt Ion: 50 Resp: 280

Ion Ratio Lower Upper

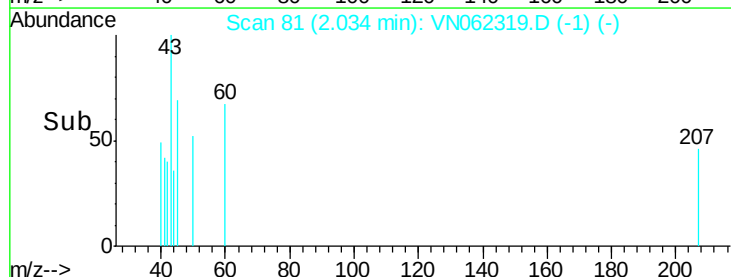
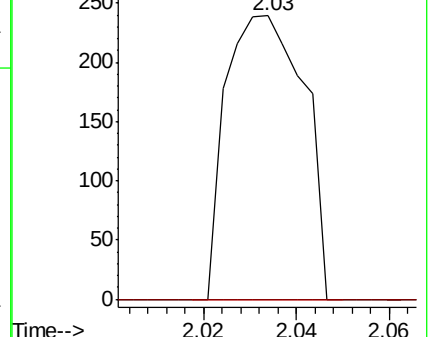
50 100

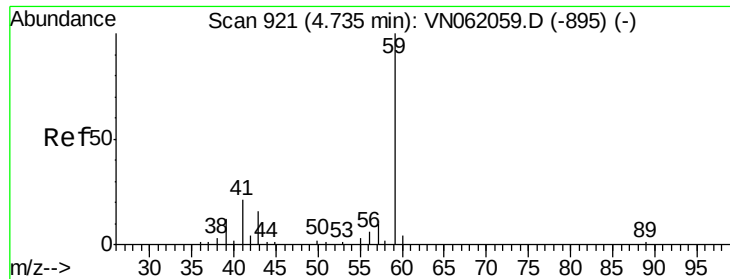
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

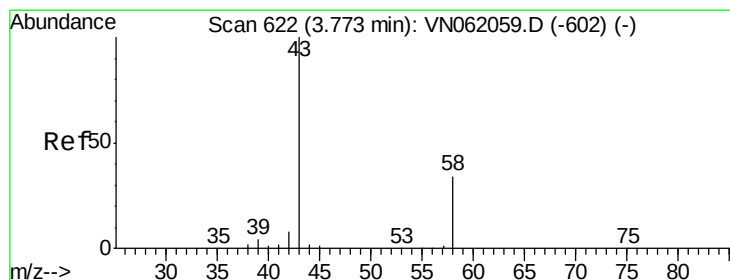
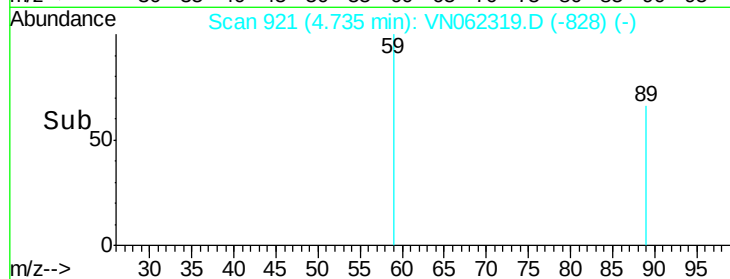
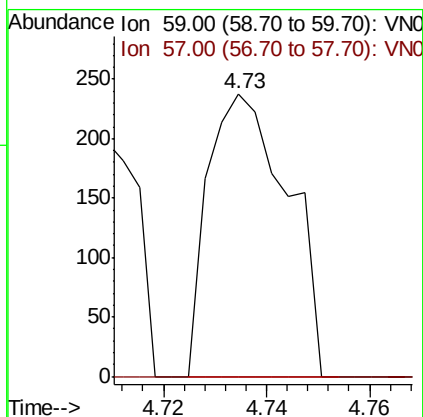
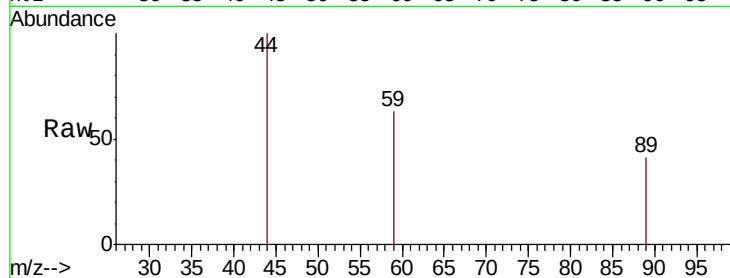




#11
Tert butyl alcohol
Concen: 0.646 ug/l
RT: 4.73 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN062319.D
Acq: 2 Jul 2020 3:56

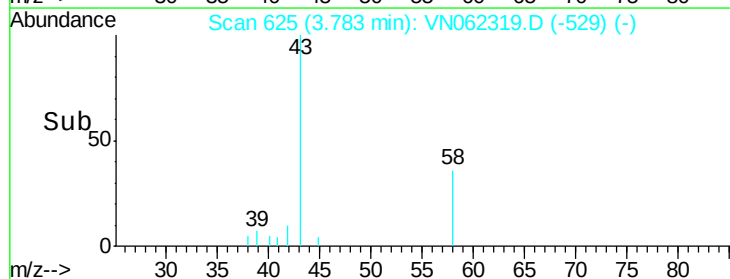
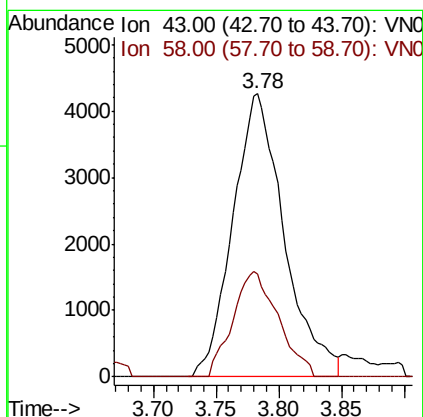
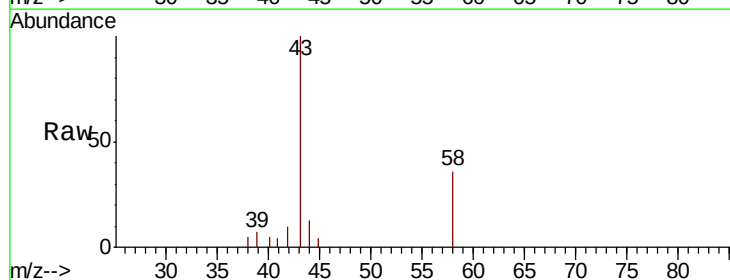
Instrument :
MSVOA_N
ClientSampleId :
PB129873ZHE#05

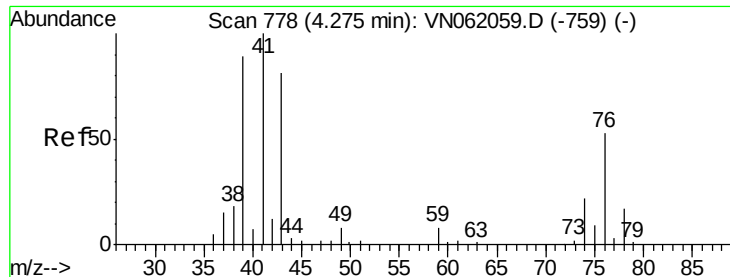
Tot Ion: 59 Resp: 254
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 10.221 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.01 min
Lab File: VN062319.D
Acq: 2 Jul 2020 3:56

Tgt Ion: 43 Resp: 12124
Ion Ratio Lower Upper
43 100
58 36.3 27.5 41.3





#18

Methyl Acetate

Concen: 1.749 ug/l

RT: 4.28 min Scan# 780

Delta R.T. 0.01 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Instrument :

MSVOA_N

ClientSampleId :

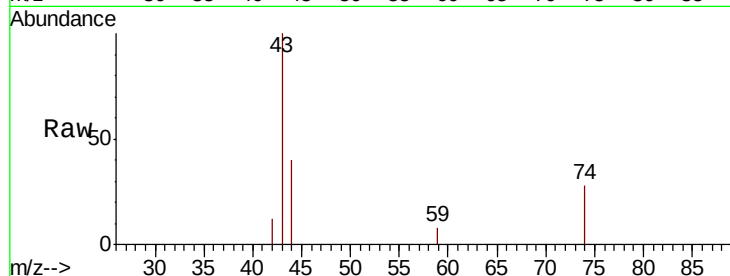
PB129873ZHE#05

Tot Ion: 43 Resp: 3807

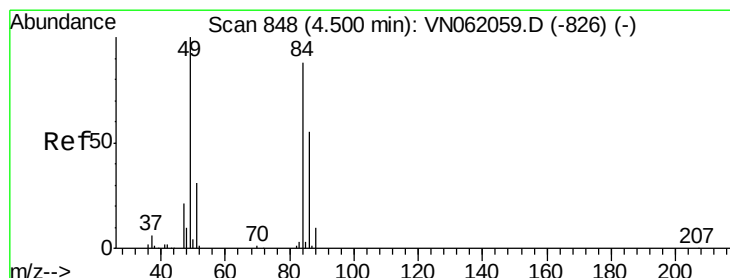
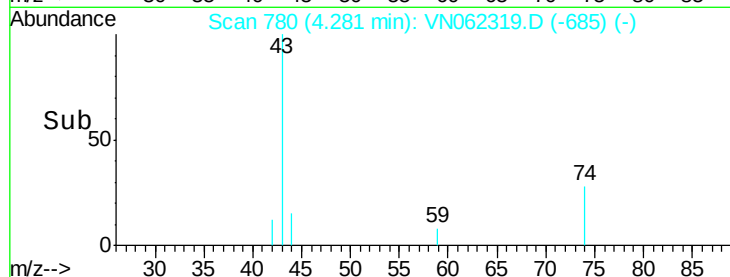
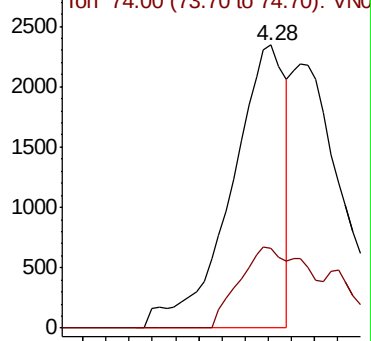
Ion Ratio Lower Upper

43 100

74 36.3 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062319.D (-685) (-)



#20

Methylene Chloride

Concen: 2.875 ug/l

RT: 4.50 min Scan# 849

Delta R.T. 0.00 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Tgt Ion: 84 Resp: 7741

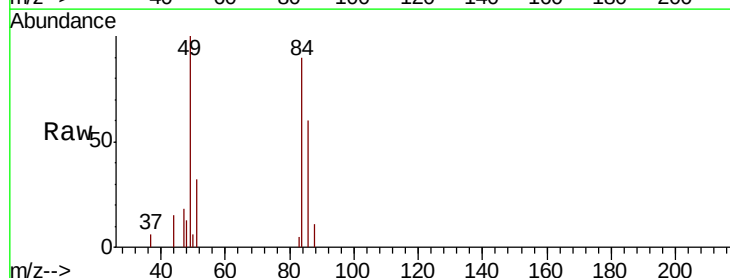
Ion Ratio Lower Upper

84 100

49 111.2 90.6 136.0

51 35.5 27.8 41.8

86 66.4 50.1 75.1



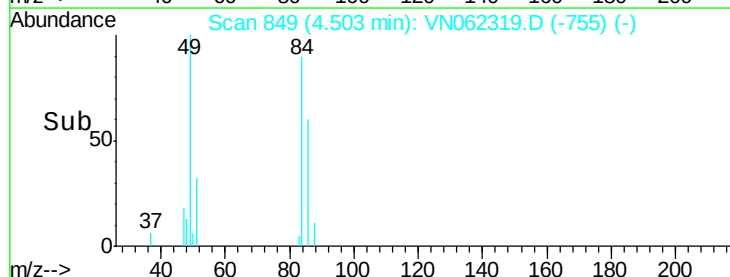
Abundance Ion 83.90 (83.60 to 84.60): VN062319.D (-755) (-)

Ion 48.90 (48.60 to 49.60): VN062319.D (-755) (-)

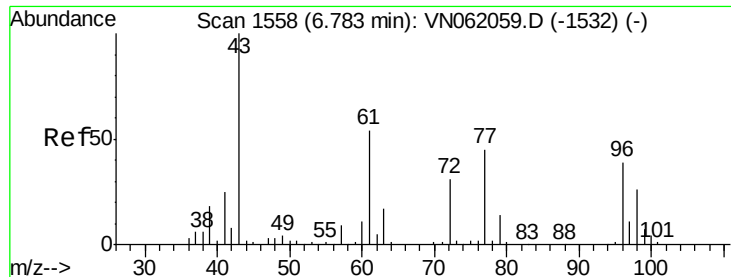
Ion 50.90 (50.60 to 51.60): VN062319.D (-755) (-)

Ion 85.90 (85.60 to 86.60): VN062319.D (-755) (-)

Time-->



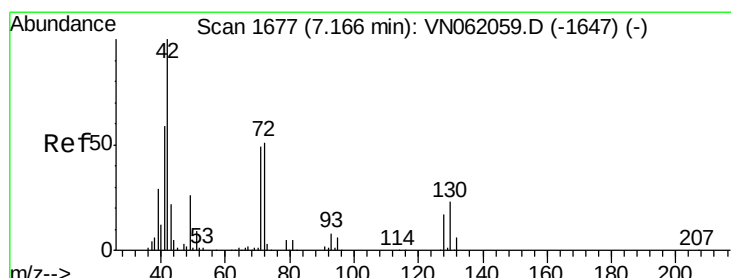
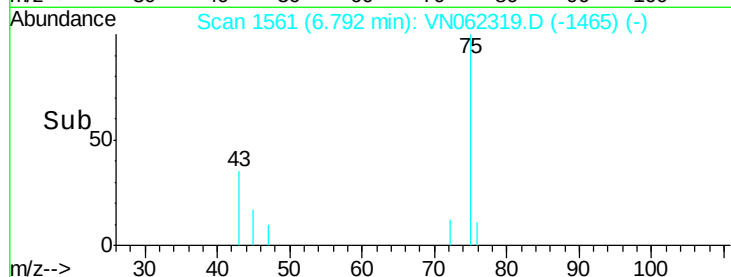
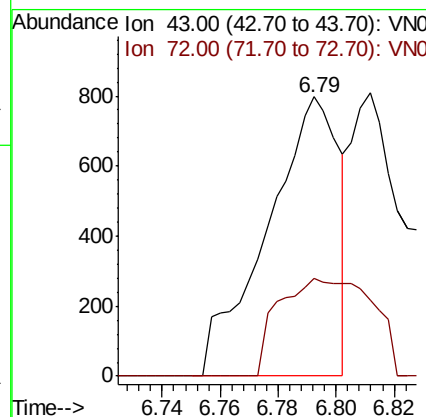
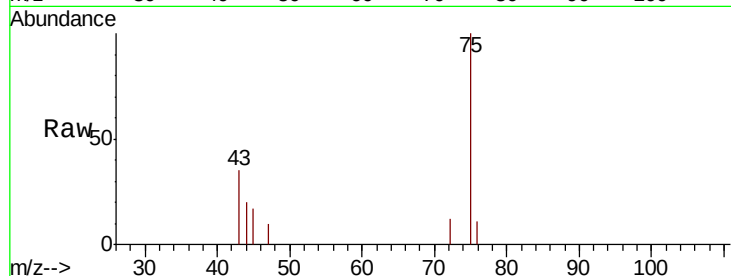
Time-->



#25
2-Butanone
Concen: 1.021 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN062319.D
Acq: 2 Jul 2020 3:56

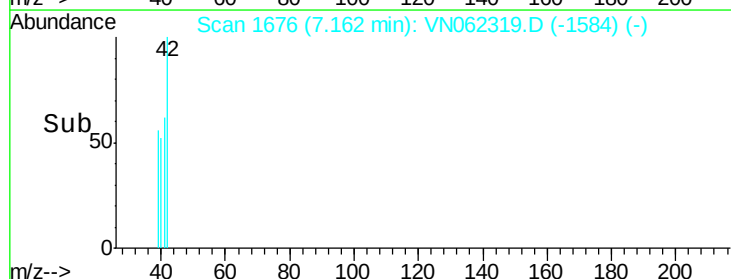
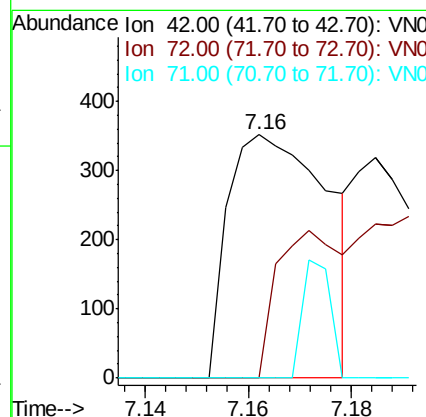
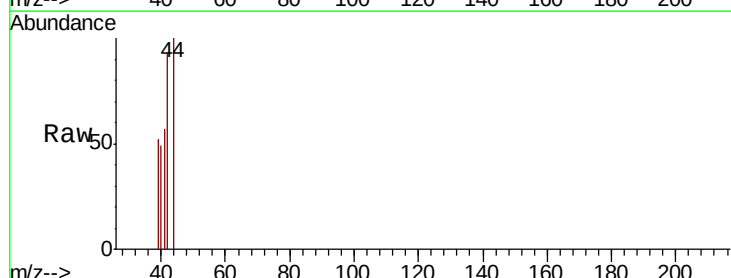
Instrument :
MSVOA_N
ClientSampleId :
PB129873ZHE#05

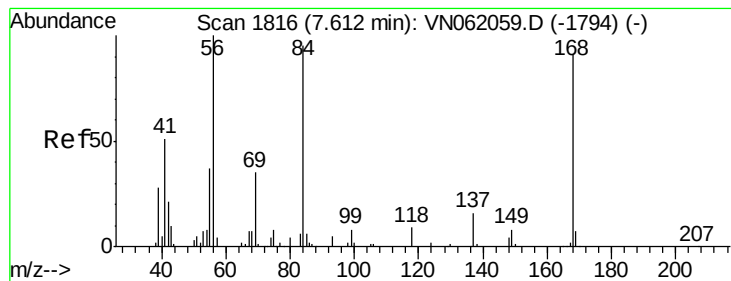
Tot Ion: 43 Resp: 1367
Ion Ratio Lower Upper
43 100
72 35.3 24.8 37.2



#29
Tetrahydrofuran
Concen: 0.535 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. -0.00 min
Lab File: VN062319.D
Acq: 2 Jul 2020 3:56

Tgt Ion: 42 Resp: 469
Ion Ratio Lower Upper
42 100
72 38.6 41.1 61.7#
71 13.4 38.2 57.4#





#31

Cyclohexane

Concen: 1.387 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Instrument :

MSVOA_N

ClientSampleId :

PB129873ZHE#05

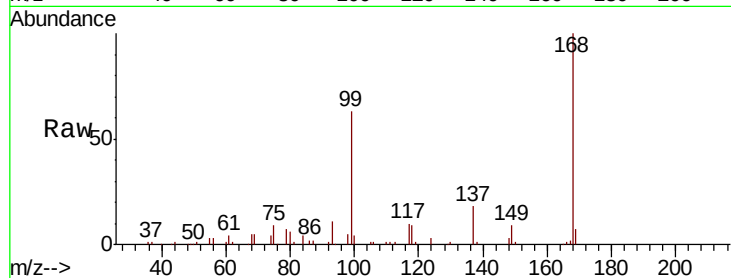
Tot Ion: 56 Resp: 5248

Ion Ratio Lower Upper

56 100

69 149.5 28.0 42.0#

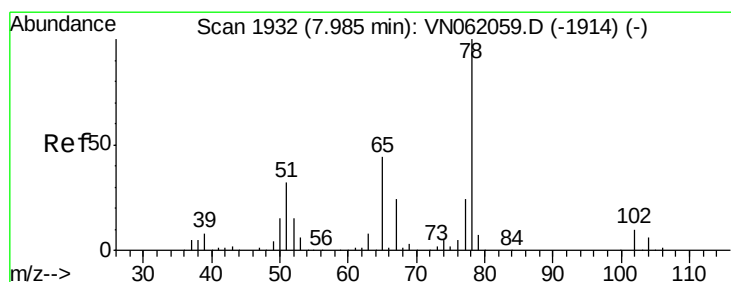
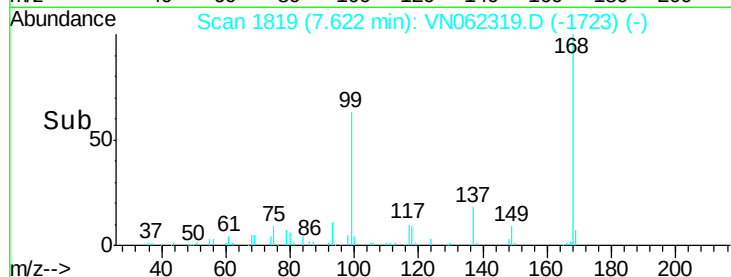
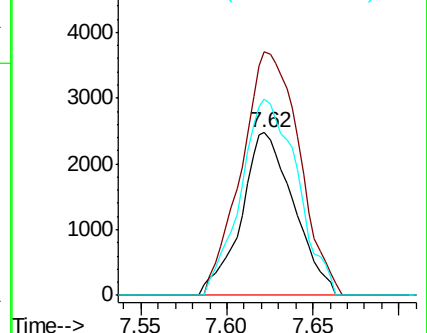
84 120.6 76.1 114.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 59.181 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062319.D

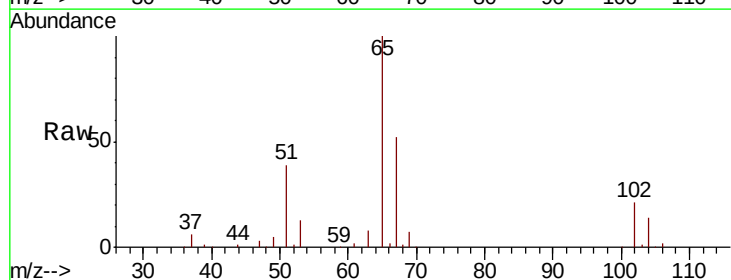
Acq: 2 Jul 2020 3:56

Tgt Ion: 65 Resp: 162044

Ion Ratio Lower Upper

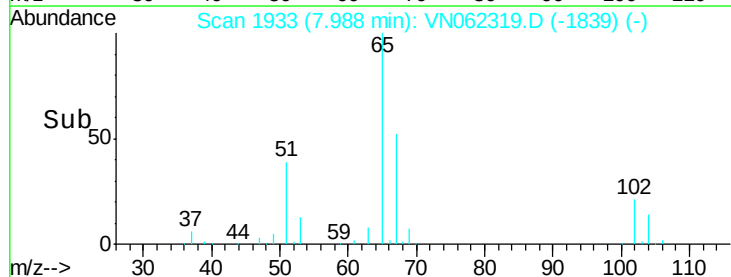
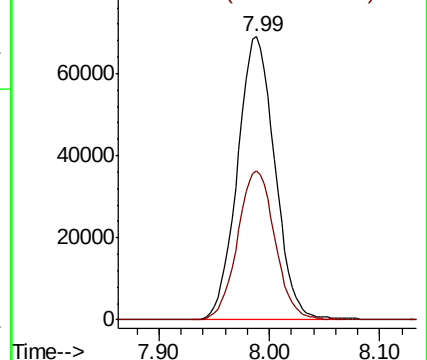
65 100

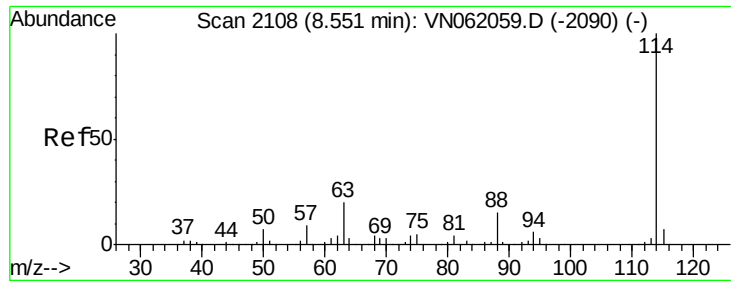
67 52.3 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

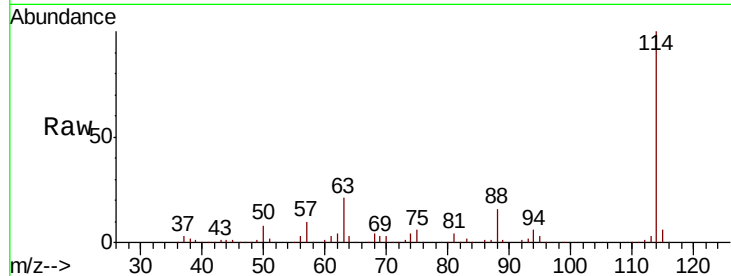




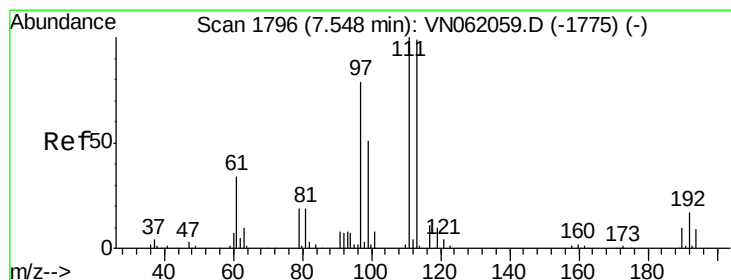
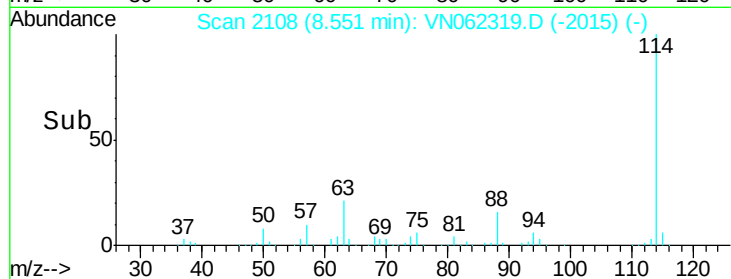
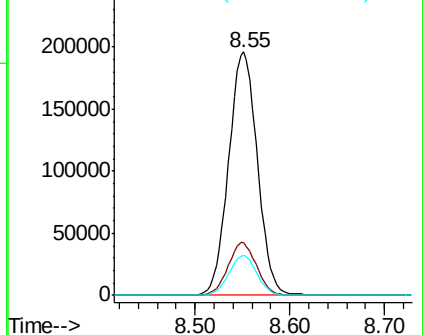
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062319.D
 Acq: 2 Jul 2020 3:56

Instrument :
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 ClientSampleId :
 PB129873ZHE#05

Tot Ion:114 Resp: 414463
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 39.2
 88 16.3 0.0 30.8

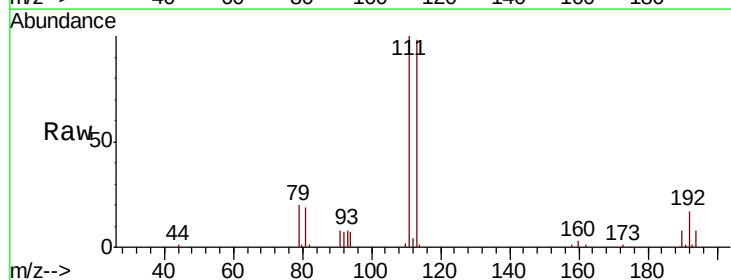


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

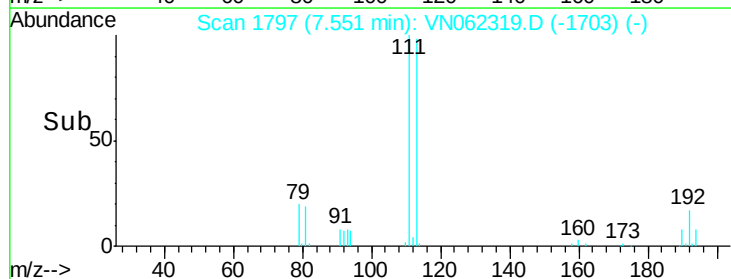
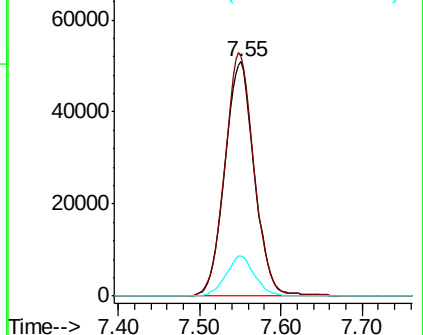


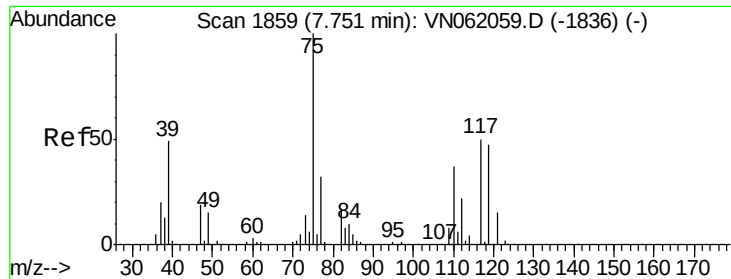
#35
 Dibromofluoromethane
 Concen: 48.845 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062319.D
 Acq: 2 Jul 2020 3:56

Tgt Ion:113 Resp: 129879
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.2 123.4
 192 16.6 14.0 21.0



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

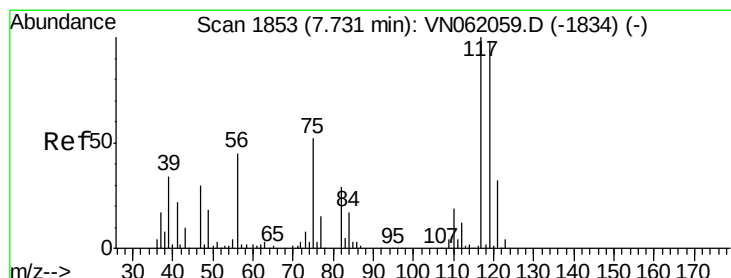
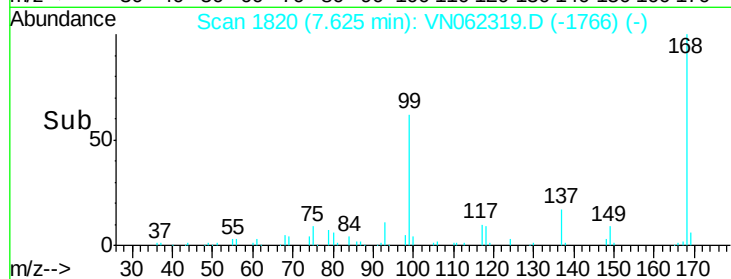
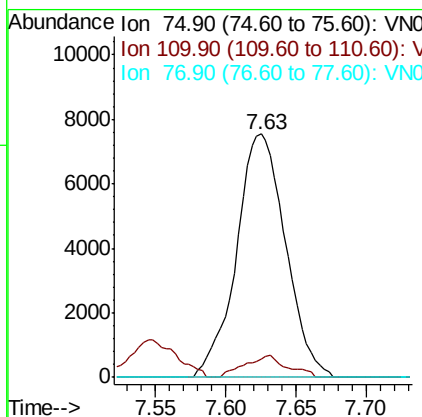
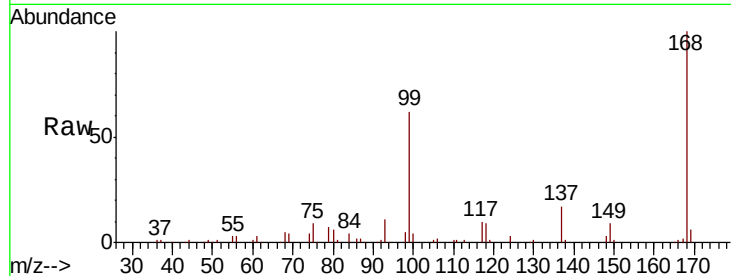




#36
 1,1-Dichloropropene
 Concen: 4.409 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062319.D
 Acq: 2 Jul 2020 3:56

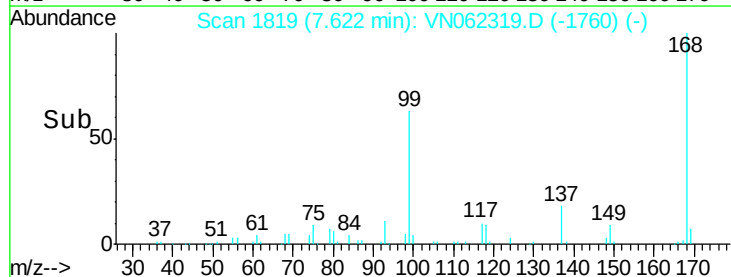
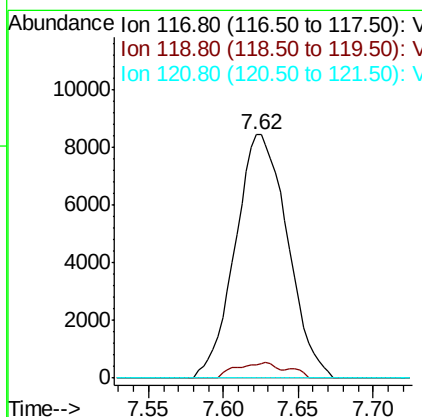
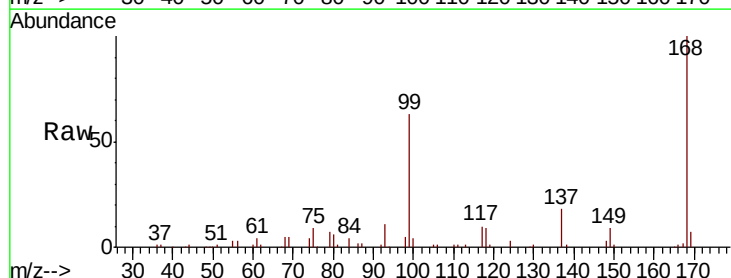
Instrument :
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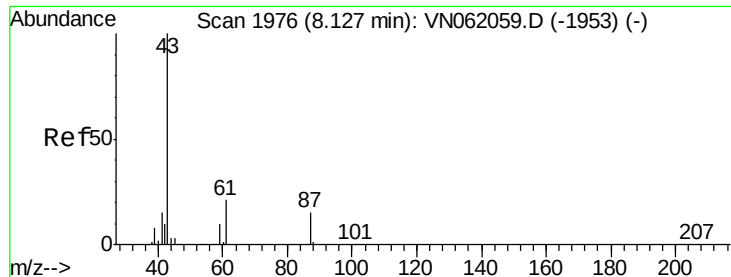
Tot Ion	75	Resp	18366
Ion Ratio	Lower	Upper	
75	100		
110	7.7	17.9	53.8#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.213 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN062319.D
 Acq: 2 Jul 2020 3:56

Tgt Ion	117	Resp	20475
Ion Ratio	Lower	Upper	
117	100		
119	5.6	78.2	117.2#
121	0.0	25.8	38.6#





#43

Isopropyl Acetate

Concen: 12.678 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Instrument :

MSVOA_N

ClientSampleId :

PB129873ZHE#05

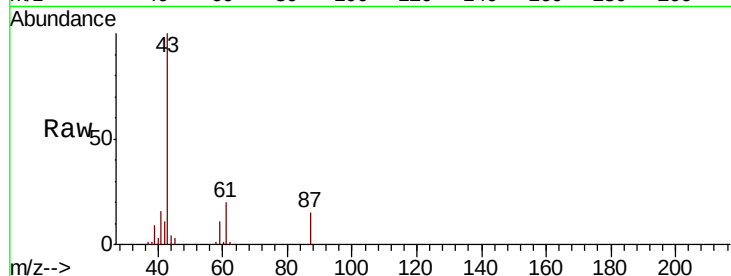
Tot Ion: 43 Resp: 71296

Ion Ratio Lower Upper

43 100

61 19.7 17.2 25.8

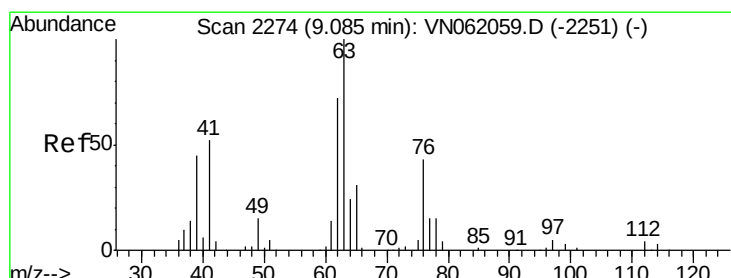
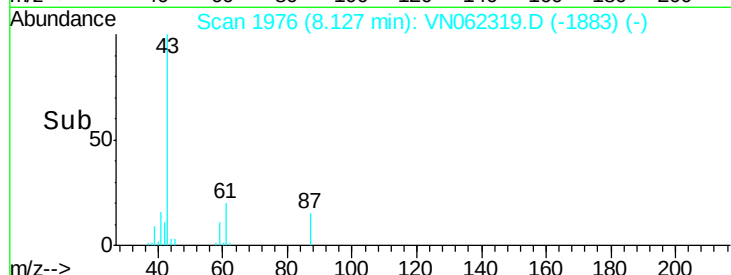
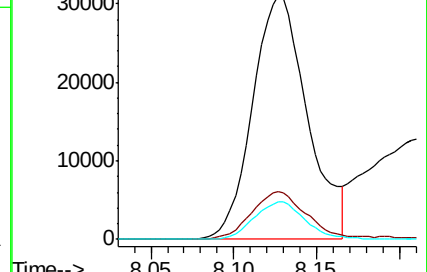
87 14.2 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VN062319.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN062319.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN062319.D (-1883) (-)



#45

1,2-Dichloropropane

Concen: 0.526 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062319.D

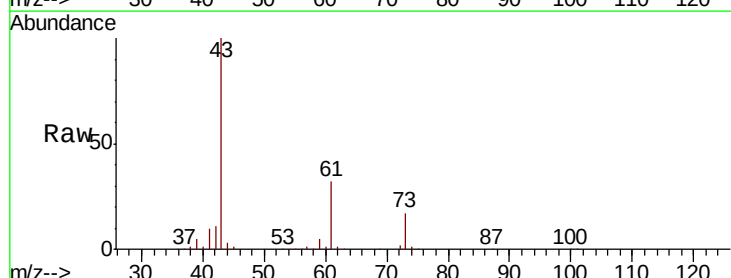
Acq: 2 Jul 2020 3:56

Tgt Ion: 63 Resp: 1648

Ion Ratio Lower Upper

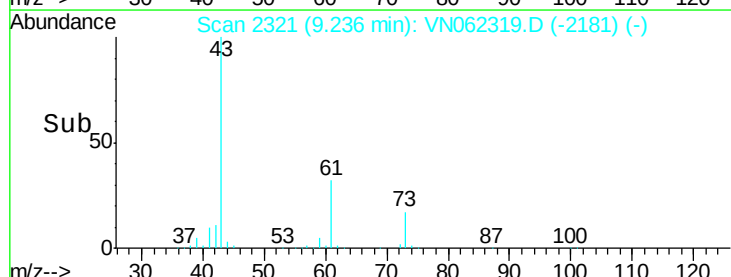
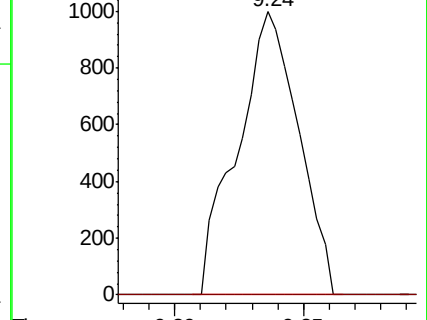
63 100

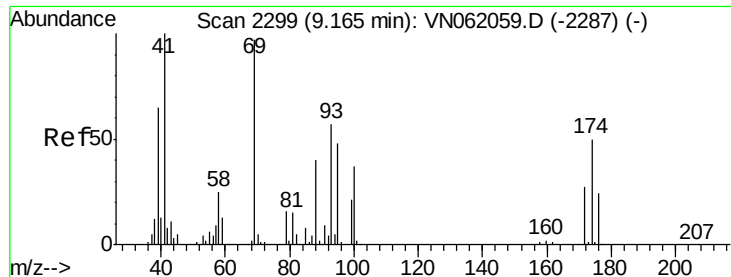
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN062319.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062319.D (-2181) (-)

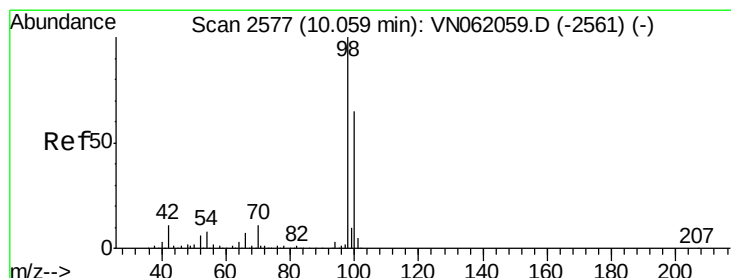
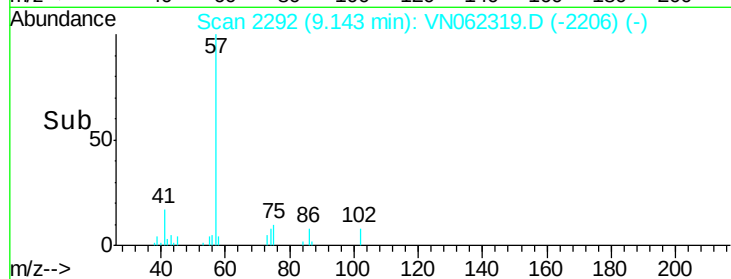
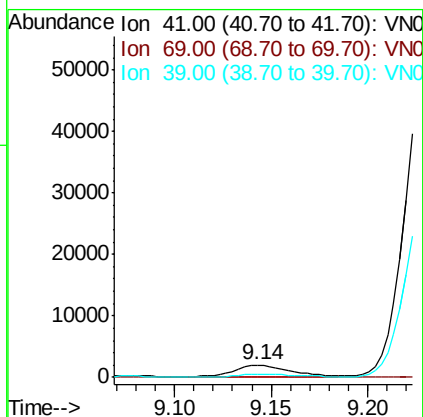
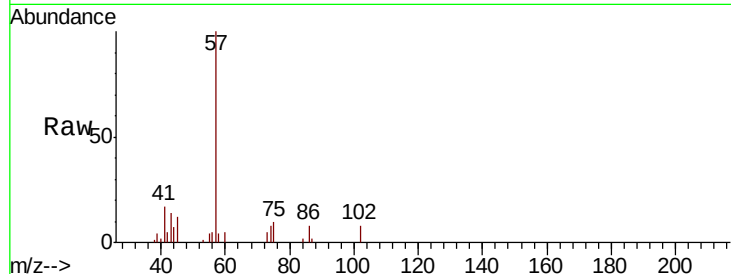




#48
Methvl methacrylate
Concen: 1.666 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN062319.D
Acq: 2 Jul 2020 3:56

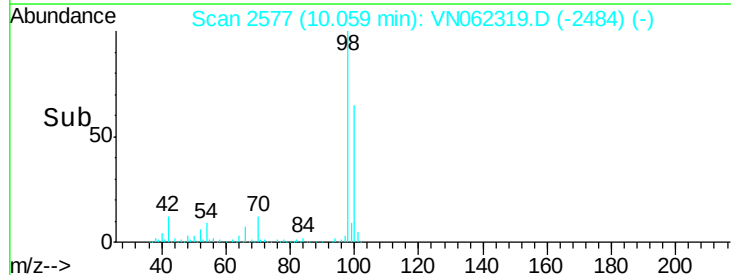
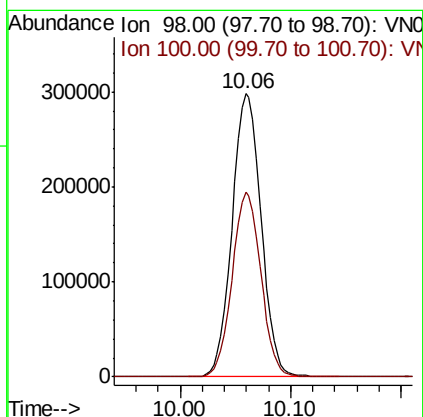
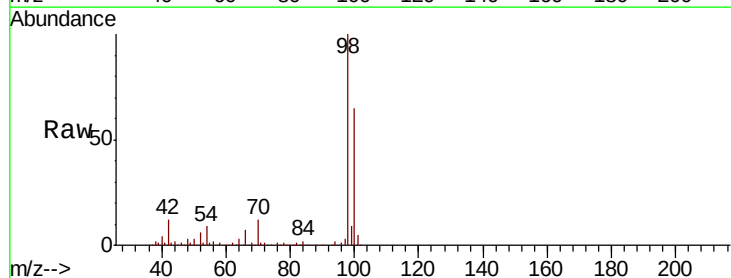
Instrument :
MSVOA_N
ClientSampleId :
PB129873ZHE#05

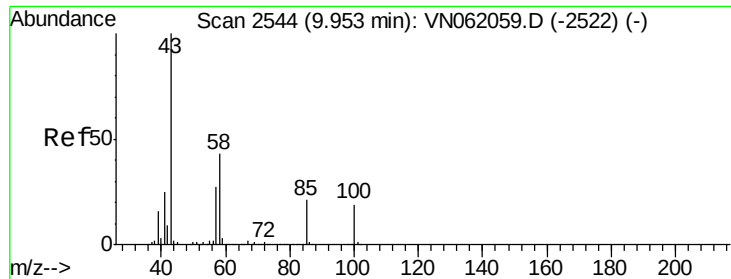
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	80.7	121.1#
39	0.0	54.5	81.7#



#50
Toluene-d8
Concen: 51.257 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062319.D
Acq: 2 Jul 2020 3:56

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 2.071 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Instrument :

MSVOA_N

ClientSampleId :

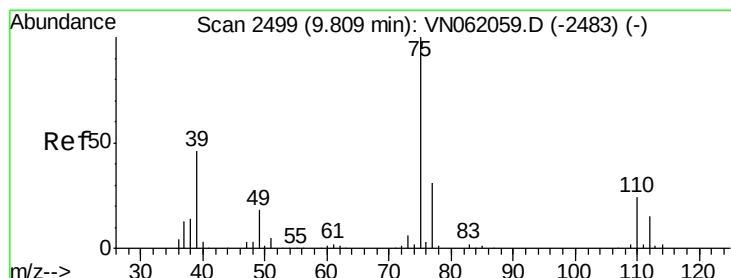
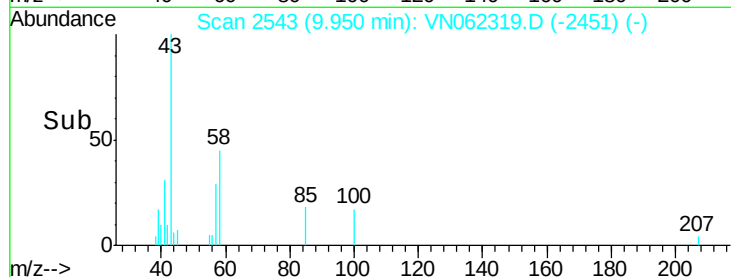
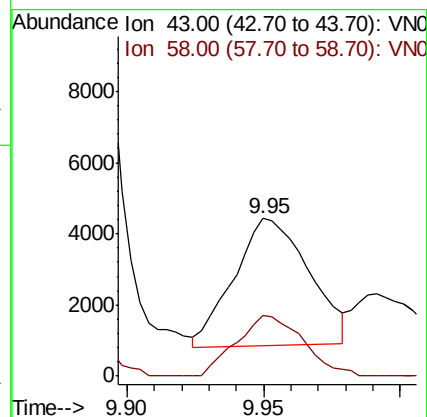
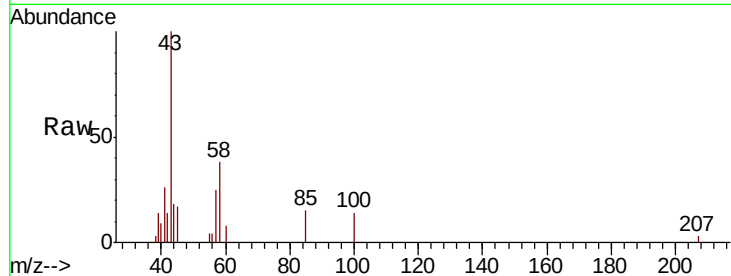
PB129873ZHE#05

Tot Ion: 43 Resp: 6803

Ion Ratio Lower Upper

43 100

58 42.6 34.2 51.2



#54

cis-1,3-Dichloropropene

Concen: 6.706 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

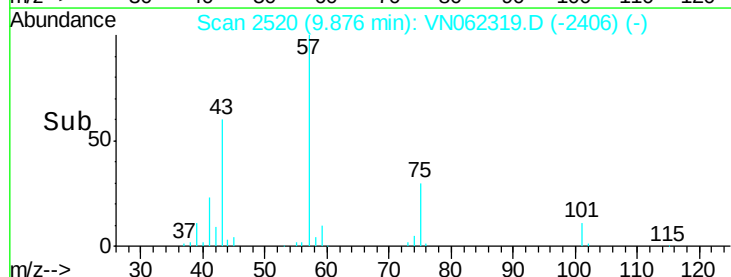
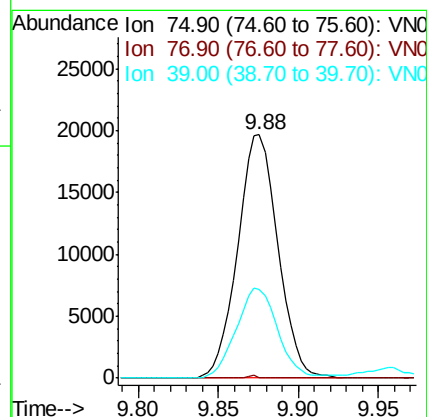
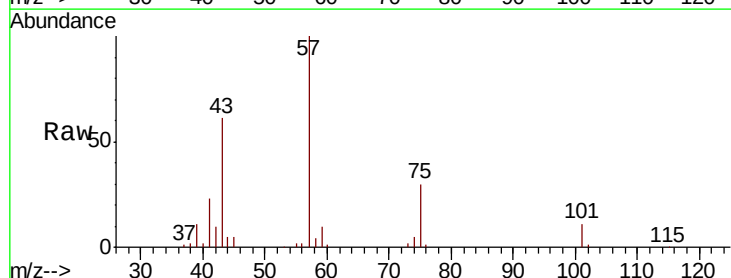
Tgt Ion: 75 Resp: 33685

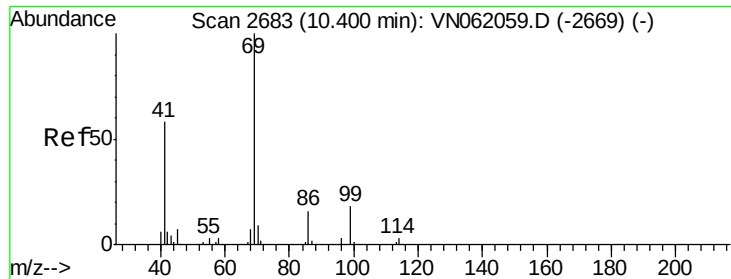
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 36.6 36.9 55.3#





#56

Ethyl methacrylate

Concen: 0.443 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Instrument :

MSVOA_N

ClientSampleId :

PB129873ZHE#05

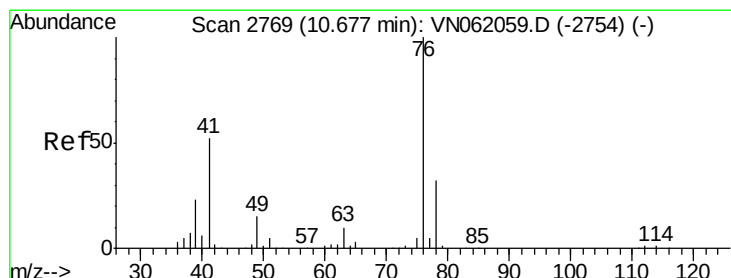
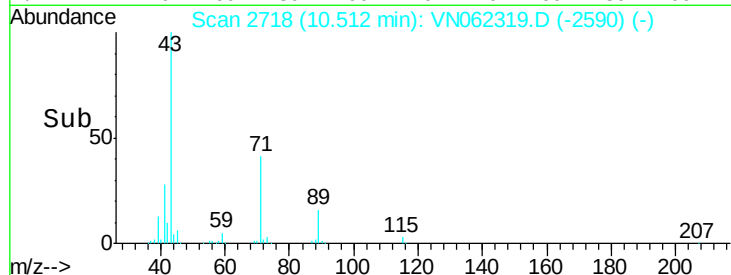
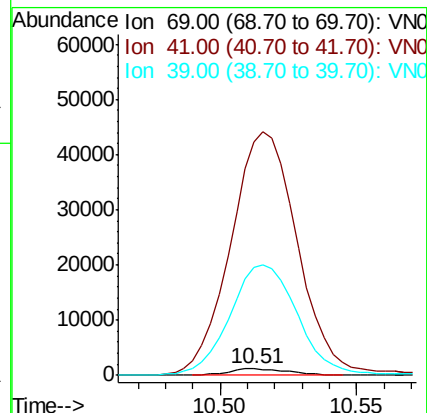
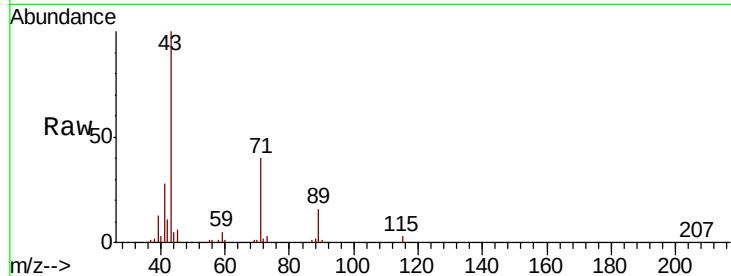
Tot Ion: 69 Resp: 1800

Ion Ratio Lower Upper

69 100

41 4214.3 46.6 70.0#

39 1922.2 31.0 46.4#



#57

1,3-Dichloropropane

Concen: 1.190 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062319.D

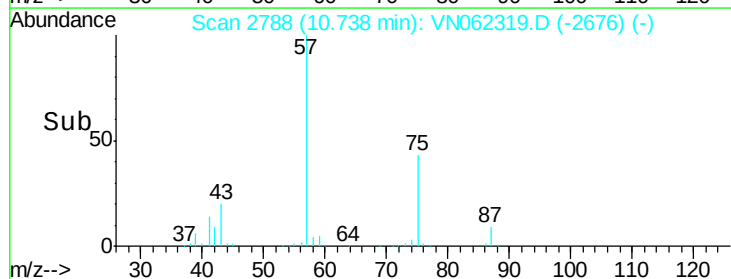
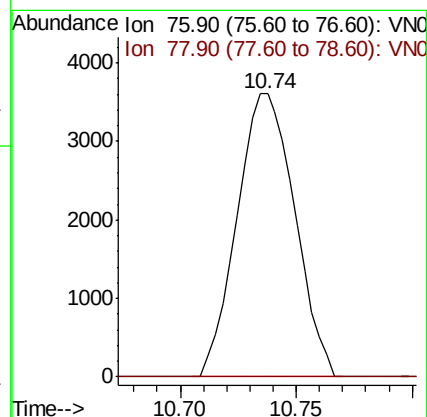
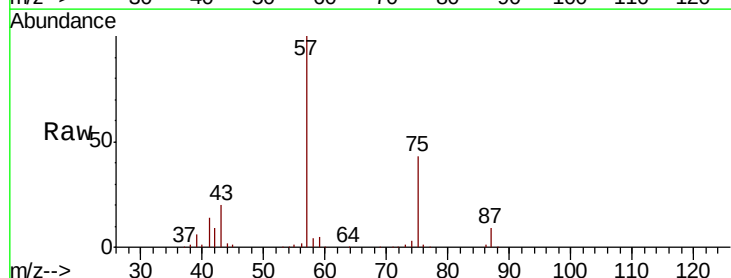
Acq: 2 Jul 2020 3:56

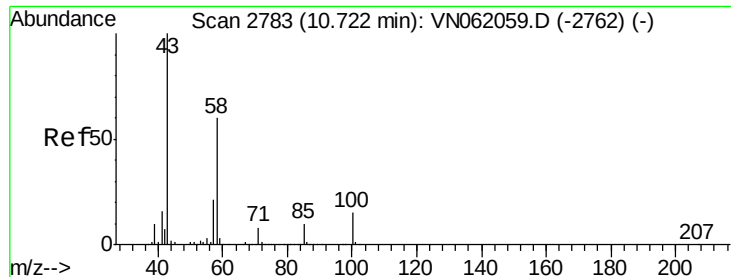
Tgt Ion: 76 Resp: 6236

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

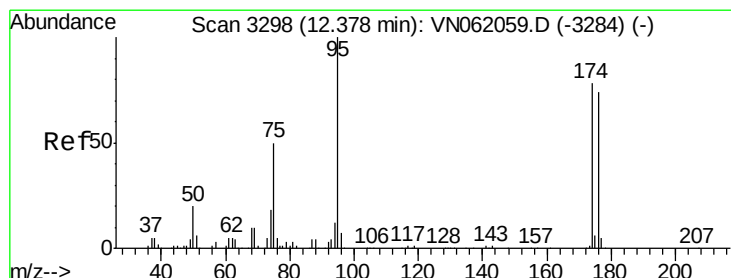
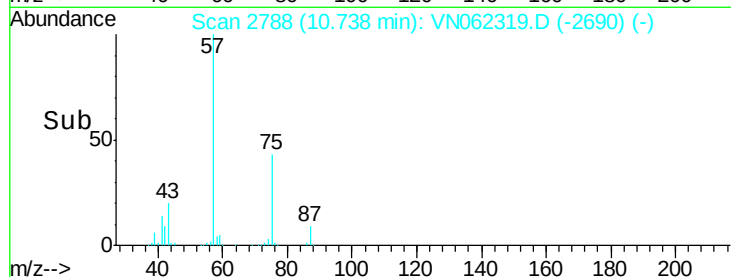
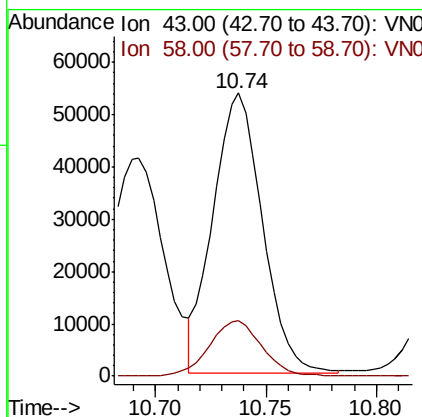
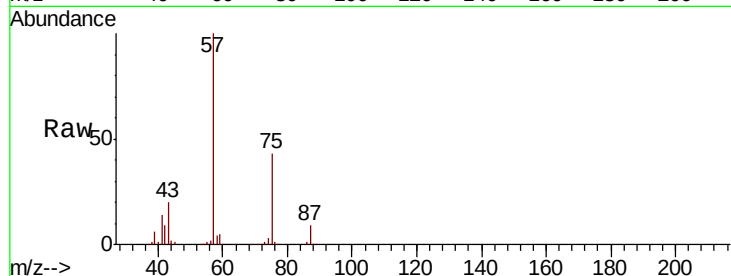




#59
2-Hexanone
Concen: 34.933 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062319.D
Acq: 2 Jul 2020 3:56

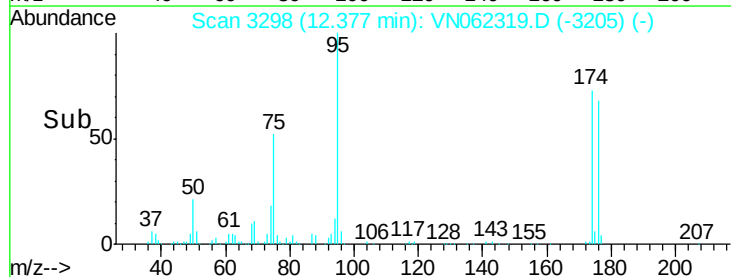
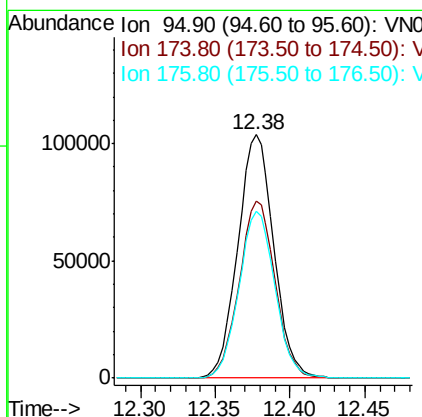
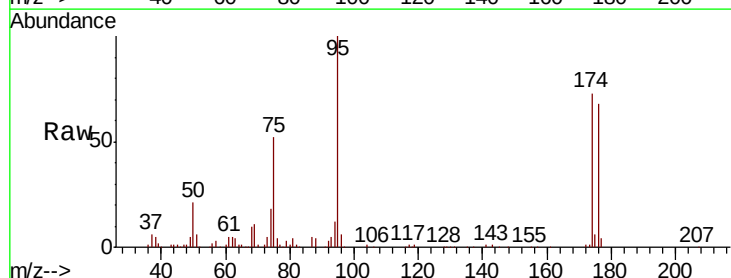
Instrument :
MSVOA_N
ClientSampleId :
PB129873ZHE#05

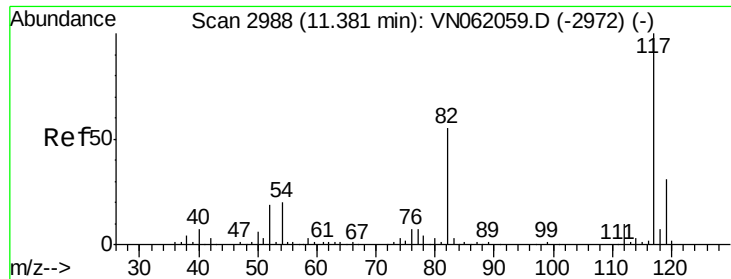
Tot Ion: 43 Resp: 82879
Ion Ratio Lower Upper
43 100
58 21.1 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 48.327 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062319.D
Acq: 2 Jul 2020 3:56

Tgt Ion: 95 Resp: 173543
Ion Ratio Lower Upper
95 100
174 72.7 0.0 154.8
176 68.7 0.0 147.4

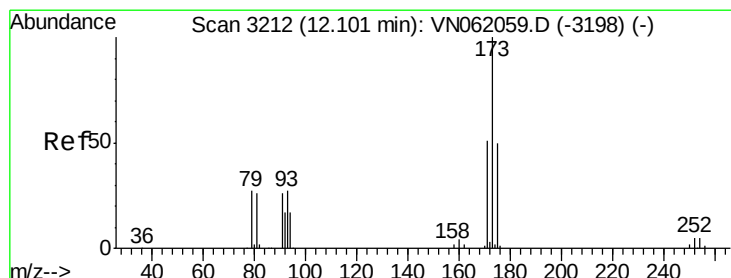
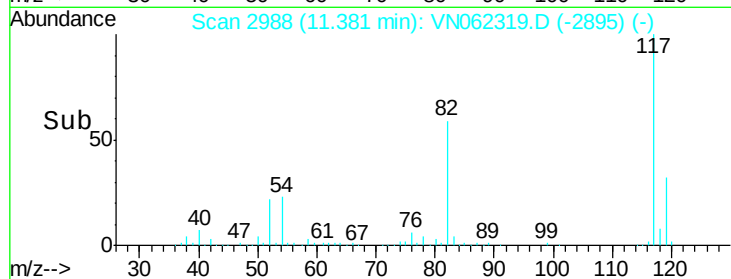
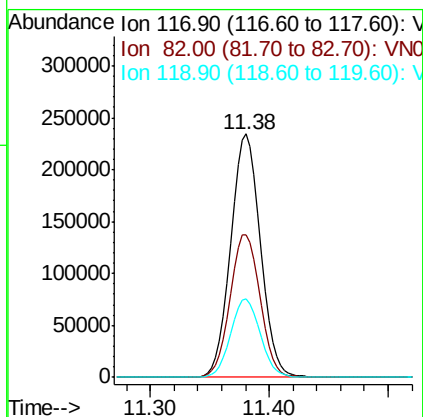
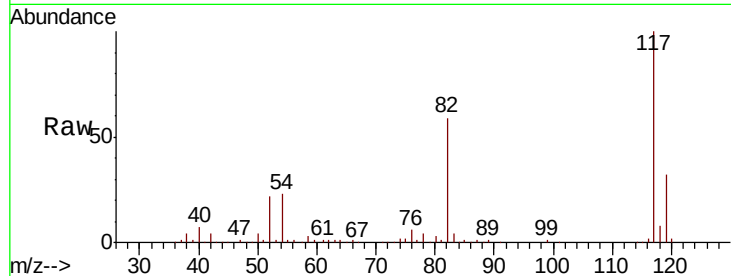




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062319.D
Acq: 2 Jul 2020 3:56

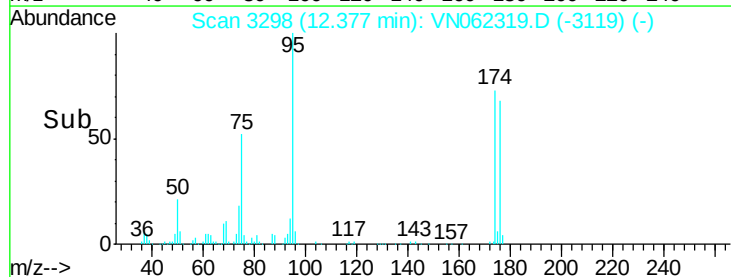
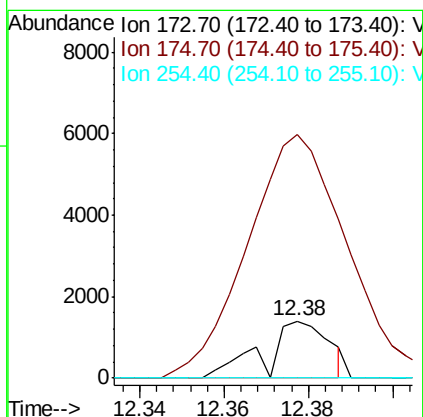
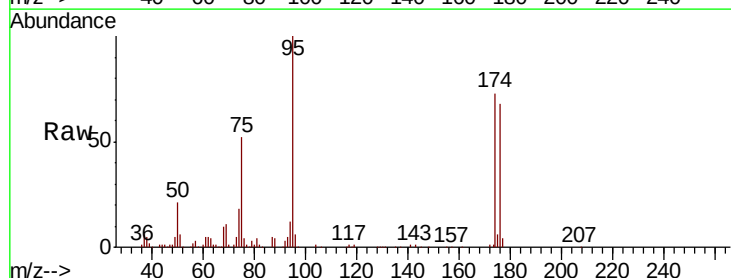
Instrument :
MSVOA_N
ClientSampleId :
PB129873ZHE#05

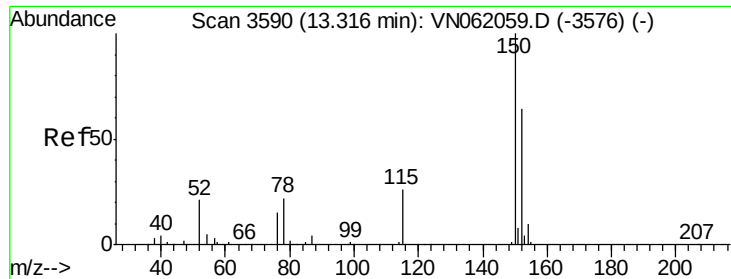
Tot Ion:117 Resp: 406496
Ion Ratio Lower Upper
117 100
82 58.7 43.8 65.8
119 32.3 25.2 37.8



#71
Bromoform
Concen: 0.673 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062319.D
Acq: 2 Jul 2020 3:56

Tgt Ion:173 Resp: 1477
Ion Ratio Lower Upper
173 100
175 552.9 24.7 74.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Instrument :

MSVOA_N

ClientSampleId :

PB129873ZHE#05

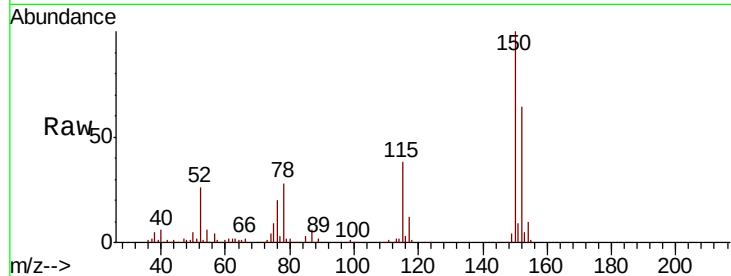
Tot Ion:152 Resp: 141700

Ion Ratio Lower Upper

152 100

115 61.2 29.5 88.5

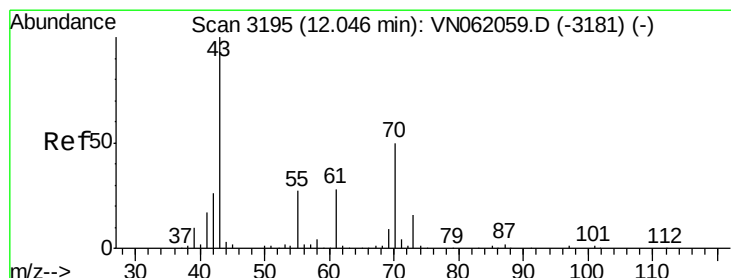
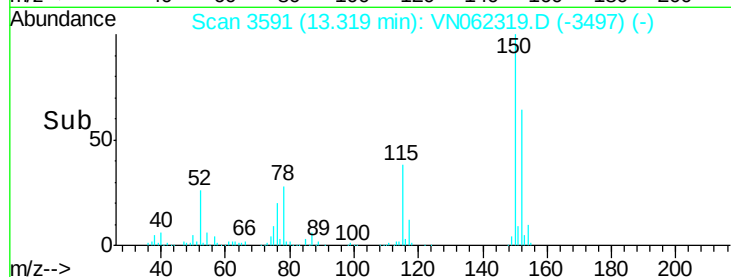
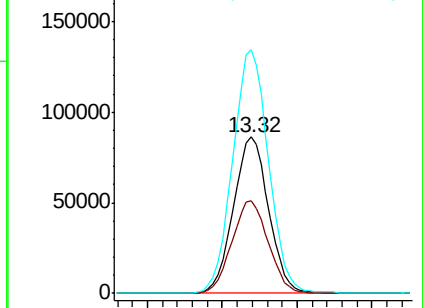
150 158.3 0.0 351.4



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: 4.090 ug/l

RT: 12.00 min Scan# 3181

Delta R.T. -0.04 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Tgt Ion: 43 Resp: 3232

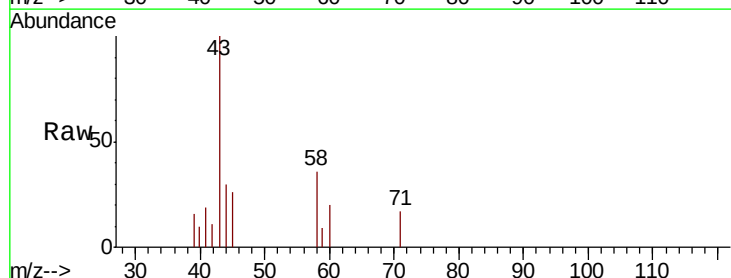
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 4.0 21.7 32.5#

61 0.0 21.3 31.9#

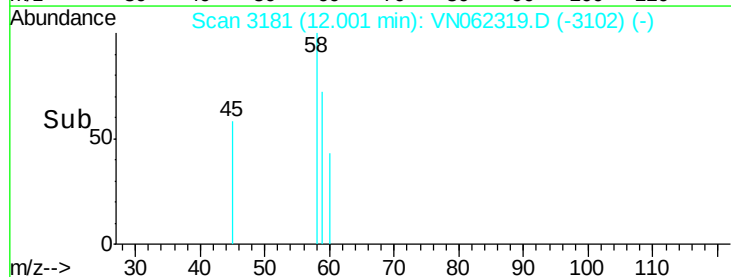
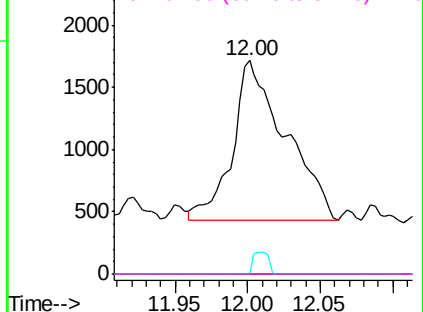


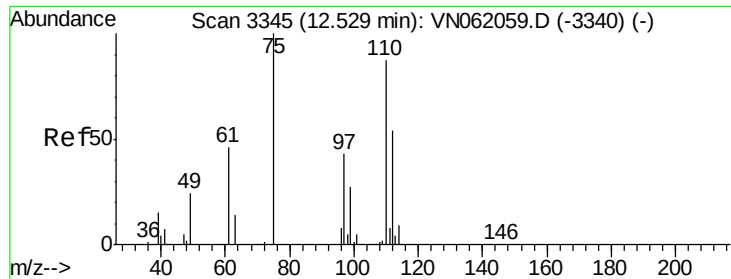
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.173 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Instrument :

MSVOA_N

ClientSampleId :

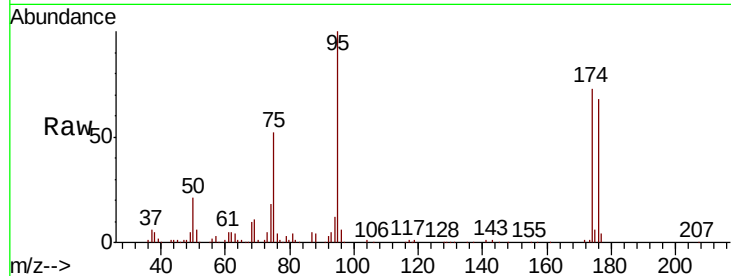
PB129873ZHE#05

Tot Ion: 75 Resp: 90643

Ion Ratio Lower Upper

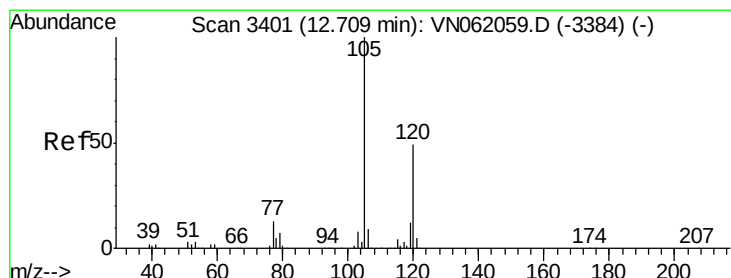
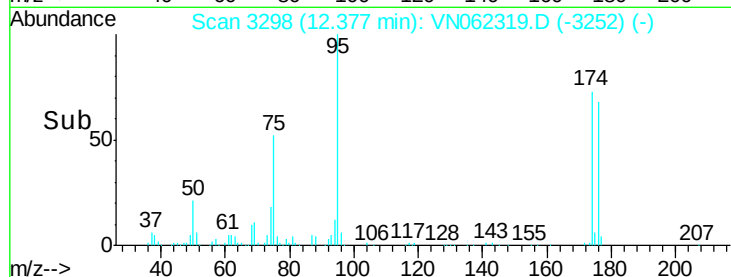
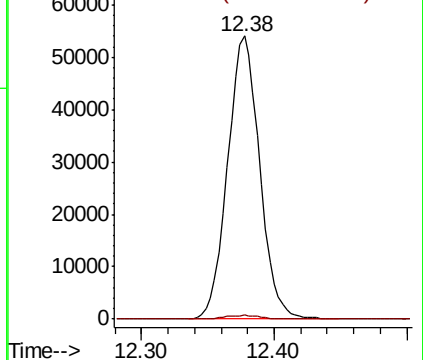
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.699 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN062319.D

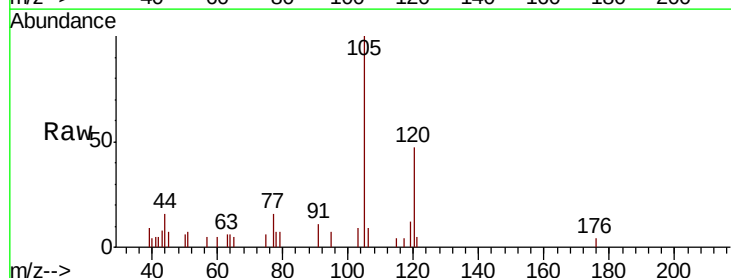
Acq: 2 Jul 2020 3:56

Tgt Ion: 105 Resp: 6215

Ion Ratio Lower Upper

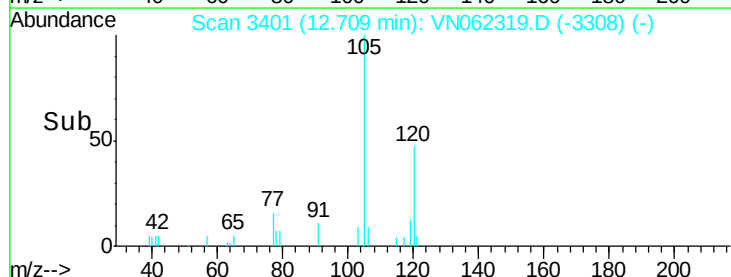
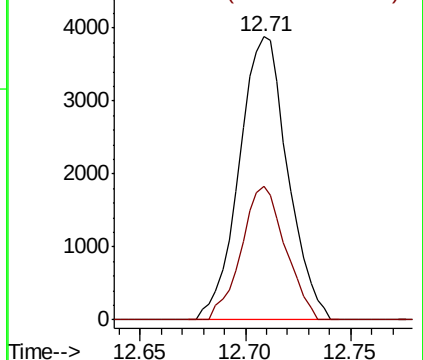
105 100

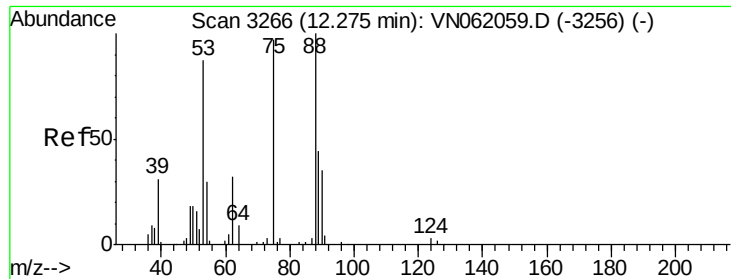
120 42.7 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 79.356 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062319.D

Acq: 2 Jul 2020 3:56

Instrument :

MSVOA_N

ClientSampleId :

PB129873ZHE#05

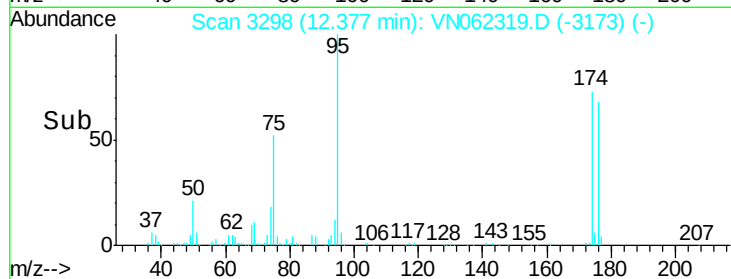
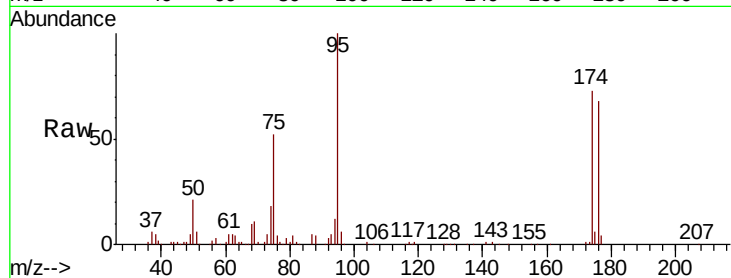
Tot Ion: 75 Resp: 90643

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

