

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072720\
 Data File : VN062609.D
 Acq On : 27 Jul 2020 19:32
 Operator : JC/MD
 Sample : PB130485ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130485ZHE#06

Quant Time: Jul 28 06:25:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	142420	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	258608	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	256532	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	107929	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	120436	54.44	ug/l	0.00
Spiked Amount			Recovery	=	108.88%	
35) Dibromofluoromethane	7.55	113	84627	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
50) Toluene-d8	10.06	98	333238	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.38	95	127702	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	

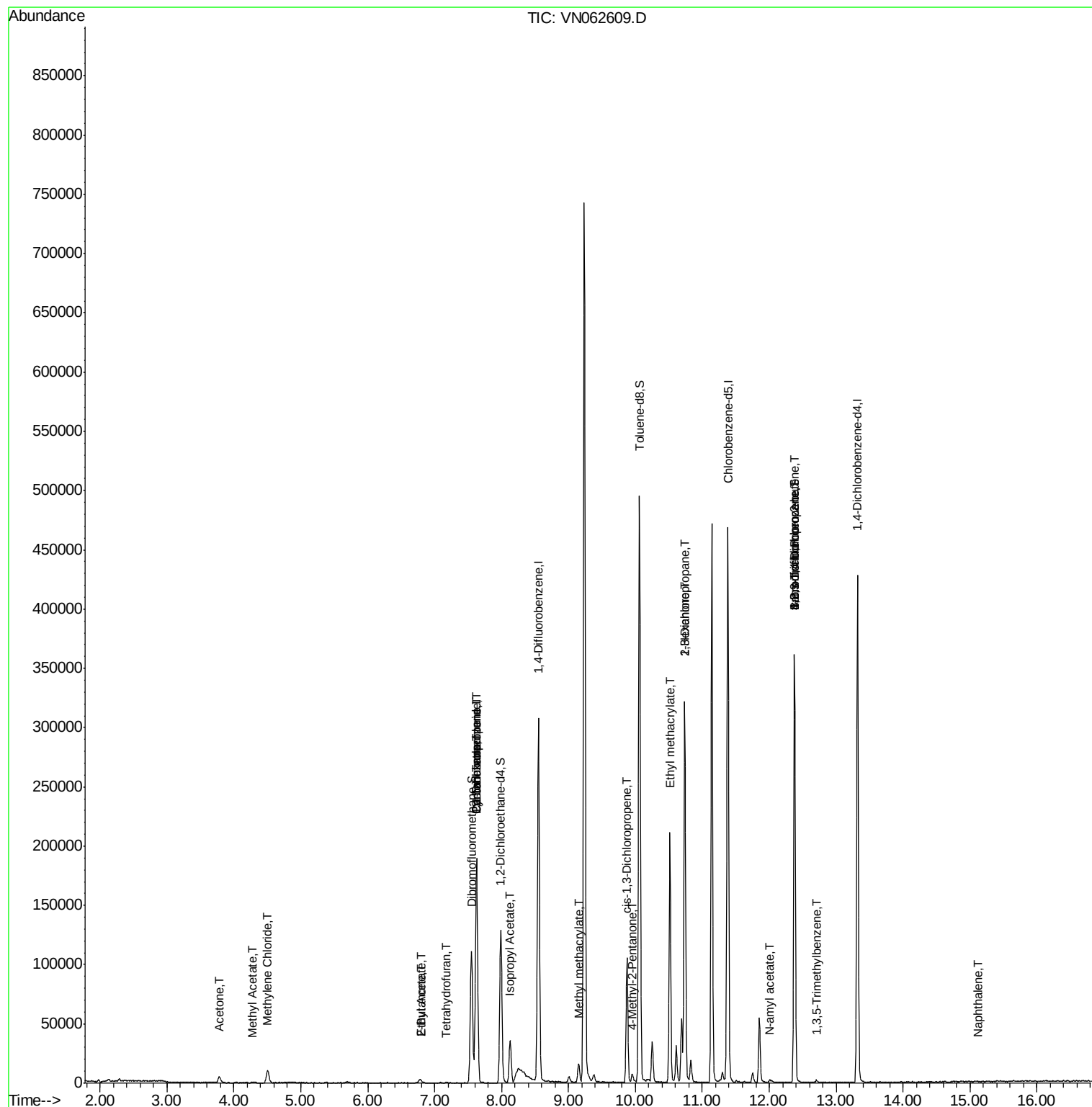
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	9612	11.545	ug/l	97
18) Methyl Acetate	4.29	43	1706	0.809	ug/l #	59
20) Methylene Chloride	4.51	84	7622	3.817	ug/l	91
25) 2-Butanone	6.81	43	1915	1.510	ug/l	96
29) Tetrahydrofuran	7.17	42	207	0.241	ug/l #	38
31) Cyclohexane	7.62	56	3309	1.015	ug/l #	9
36) 1,1-Dichloropropene	7.63	75	12573	4.561	ug/l #	50
37) Ethyl Acetate	6.81	43	1915	0.644	ug/l #	69
38) Carbon Tetrachloride	7.63	117	15859	5.985	ug/l #	17
43) Isopropyl Acetate	8.13	43	42104	8.790	ug/l #	91
48) Methyl methacrylate	9.15	41	2330	1.023	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	5287	1.845	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	17869	5.099	ug/l #	66
56) Ethyl methacrylate	10.52	69	859	2.015	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3274	0.951	ug/l #	42
59) 2-Hexanone	10.74	43	48358	24.518	ug/l #	53
71) Bromoform	12.37	173	522	0.344	ug/l #	1
74) N-amyl acetate	12.01	43	1014	0.266	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	72279	26.310	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	1744	0.246	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.38	75	72279	73.242	ug/l #	12
95) Naphthalene	15.11	128	134	3.787	ug/l #	69

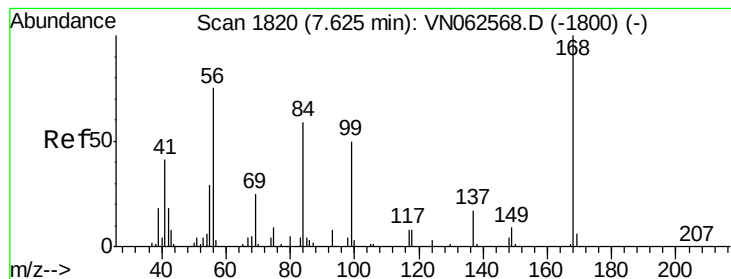
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062609.D

Acq: 27 Jul 2020 19:32

Instrument :

MSVOA_N

ClientSampleId :

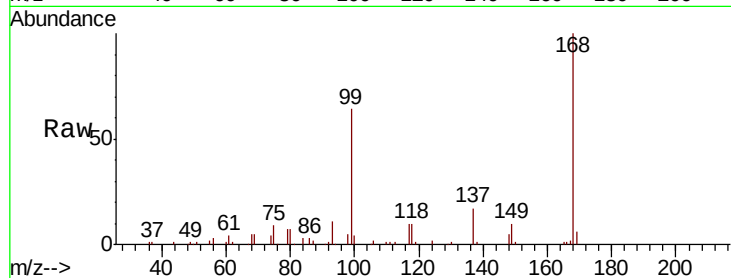
PB130485ZHE#06

Tot Ion:168 Resp: 142420

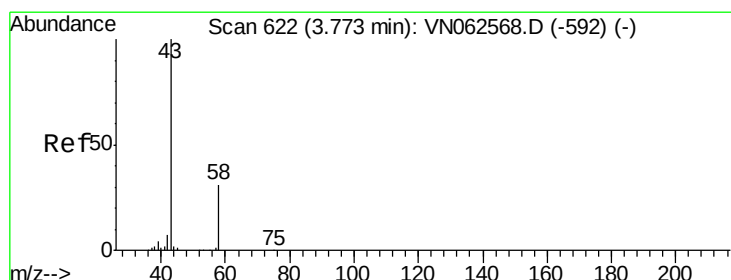
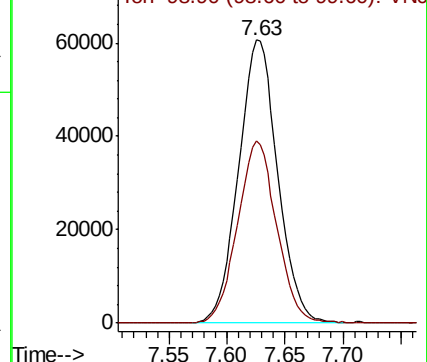
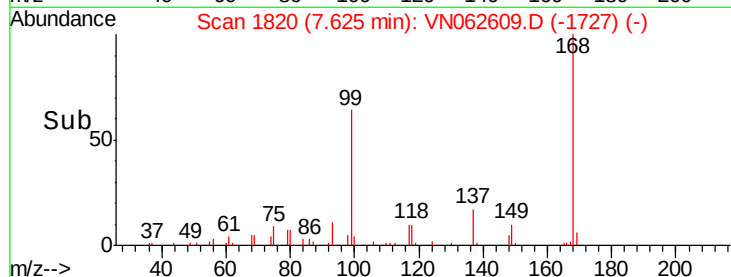
Ion Ratio Lower Upper

168 100

99 64.2 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VN062609.D (-1727) (-)



#16

Acetone

Concen: 11.545 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062609.D

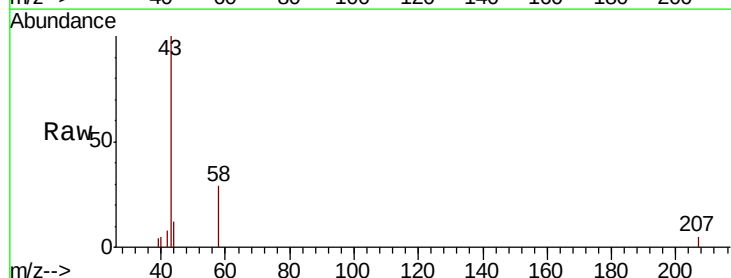
Acq: 27 Jul 2020 19:32

Tgt Ion: 43 Resp: 9612

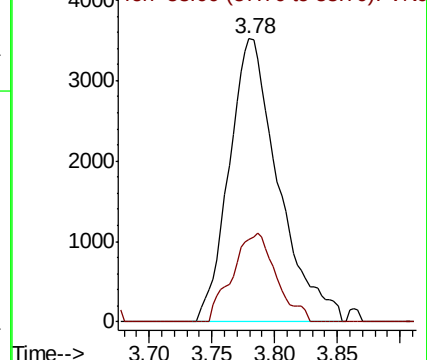
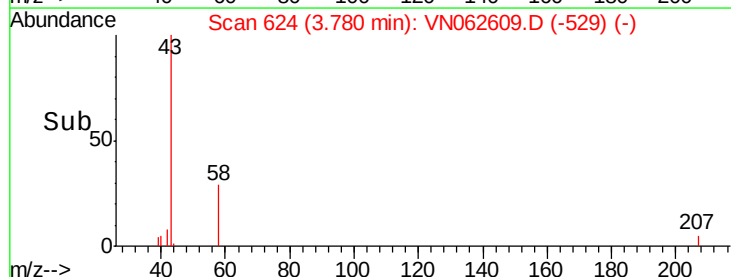
Ion Ratio Lower Upper

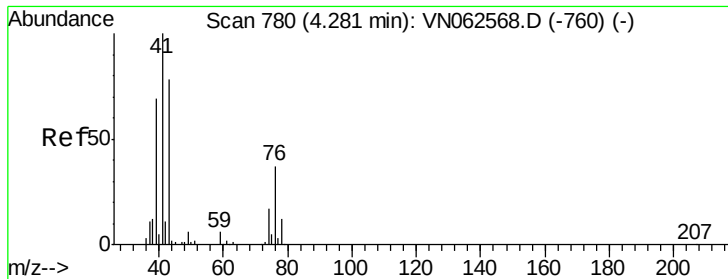
43 100

58 28.9 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN062609.D (-529) (-)

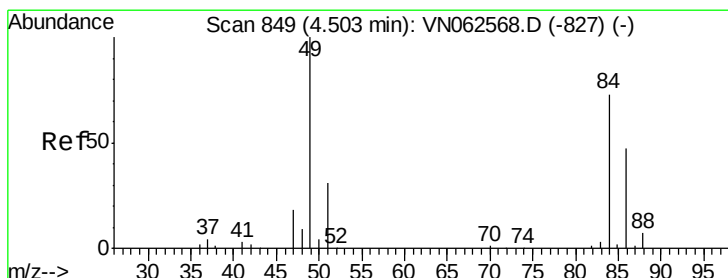
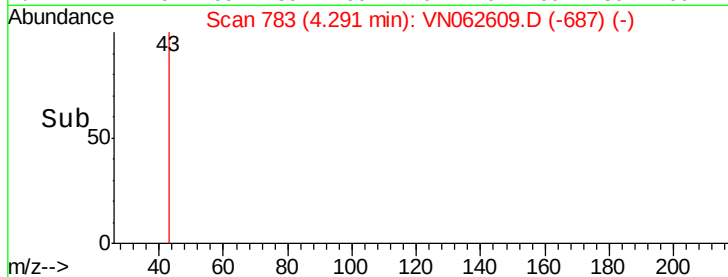
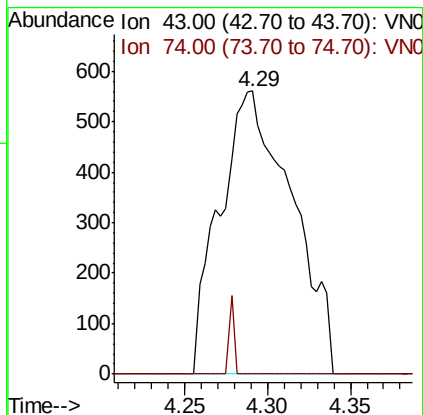
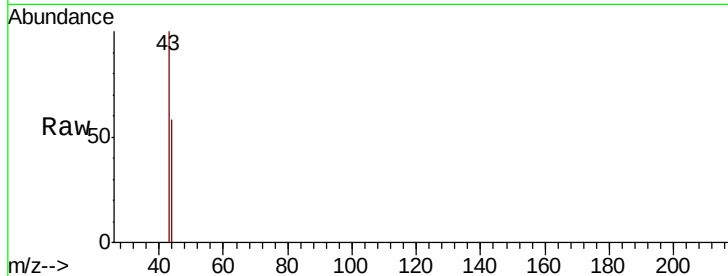




#18
Methvl Acetate
Concen: 0.809 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

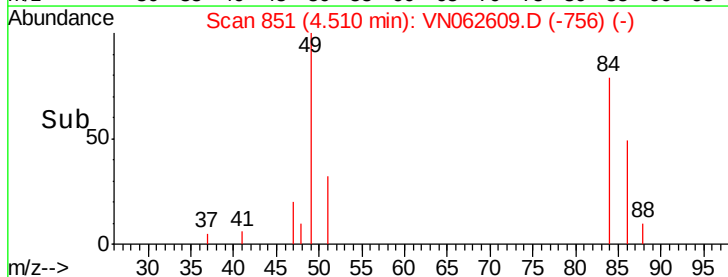
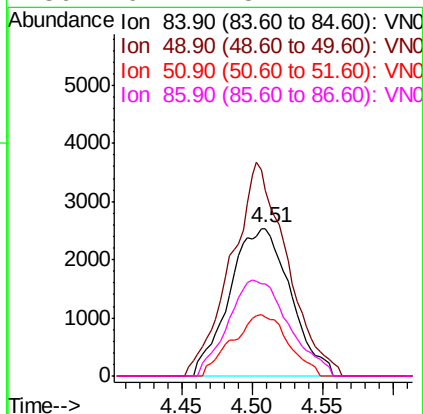
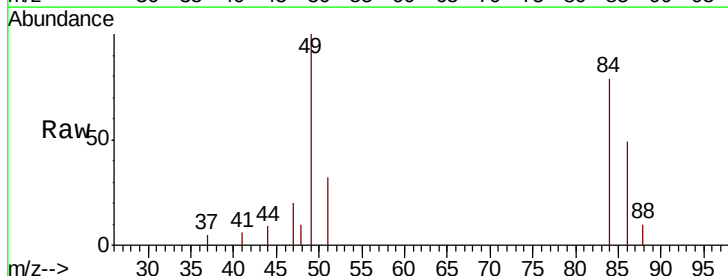
Instrument :
MSVOA_N
ClientSampleId :
PB130485ZHE#06

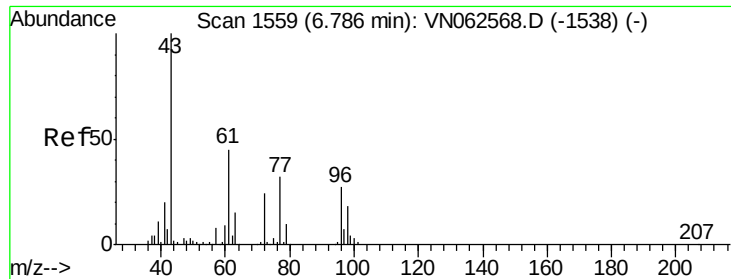
Tot Ion: 43 Resp: 1706
Ion Ratio Lower Upper
43 100
74 1.8 16.6 24.8#



#20
Methylene Chloride
Concen: 3.817 ug/l
RT: 4.51 min Scan# 851
Delta R.T. 0.01 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Tgt Ion: 84 Resp: 7622
Ion Ratio Lower Upper
84 100
49 120.1 109.4 164.0
51 40.1 33.6 50.4
86 62.4 51.4 77.2

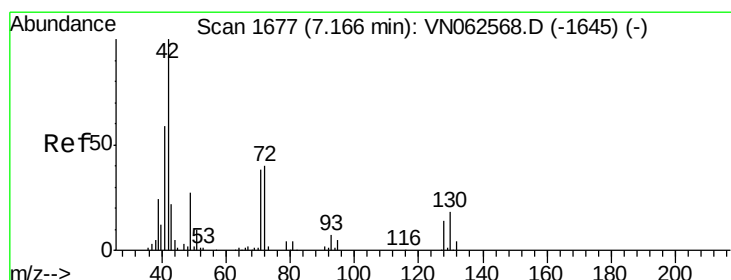
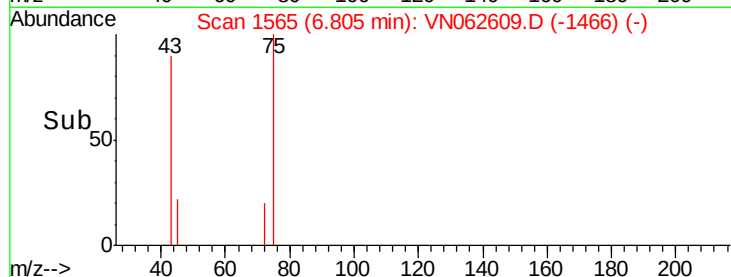
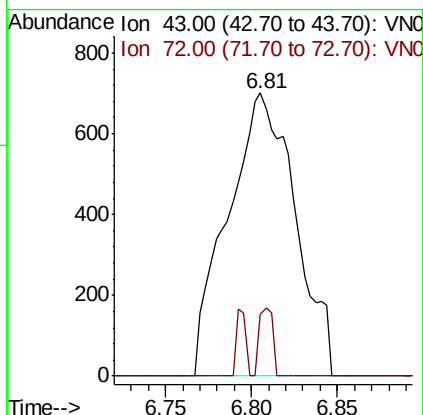
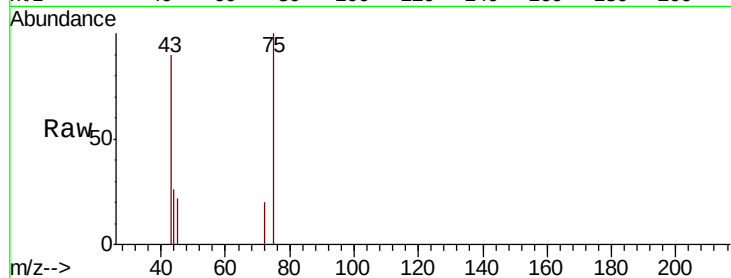




#25
2-Butanone
Concen: 1.510 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.02 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

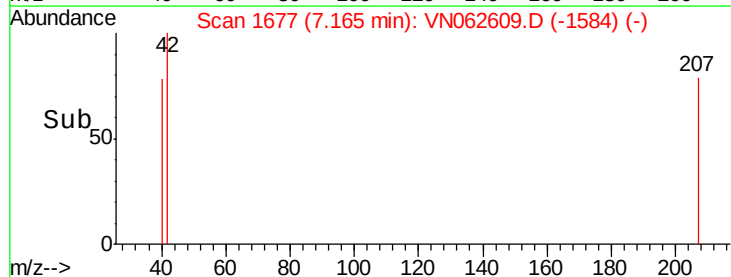
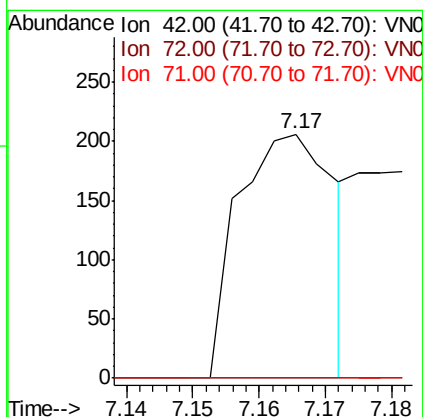
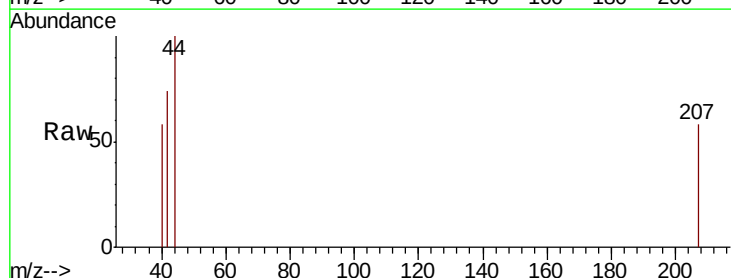
Instrument :
MSVOA_N
ClientSampleId :
PB130485ZHE#06

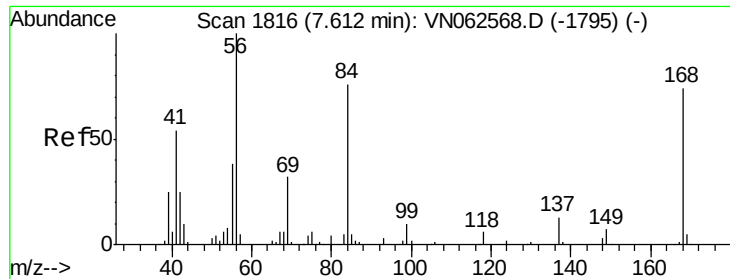
Tot Ion: 43 Resp: 1915
Ion Ratio Lower Upper
43 100
72 21.8 19.0 28.6



#29
Tetrahydrofuran
Concen: 0.241 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. -0.00 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Tgt Ion: 42 Resp: 207
Ion Ratio Lower Upper
42 100
72 0.0 30.7 46.1#
71 0.0 29.1 43.7#

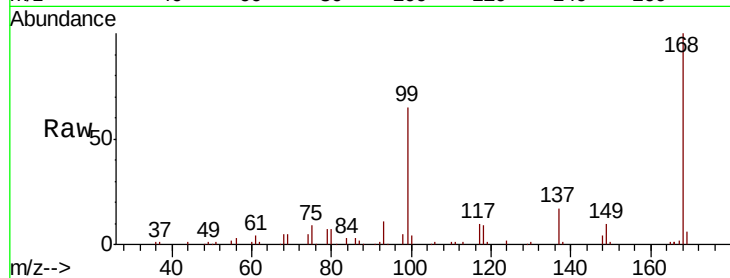




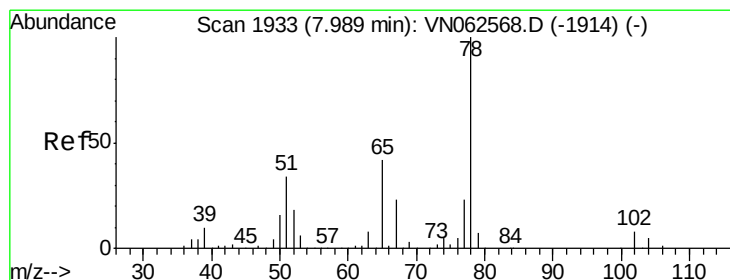
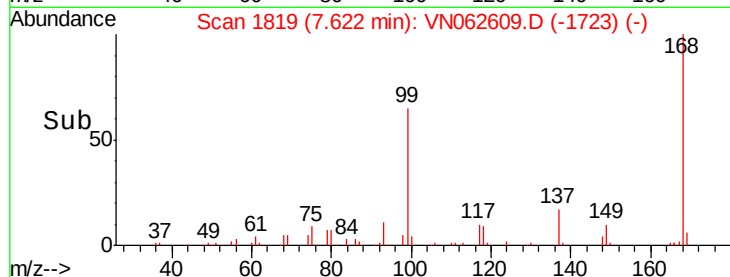
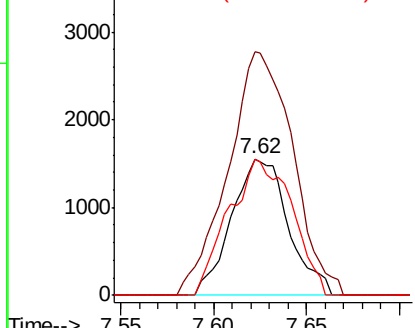
#31
Cyclohexane
Concen: 1.015 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Instrument :
MSVOA_N
ClientSampleId :
PB130485ZHE#06

Tot Ion: 56 Resp: 3309
Ion Ratio Lower Upper
56 100
69 167.2 25.3 37.9#
84 100.1 61.0 91.4#

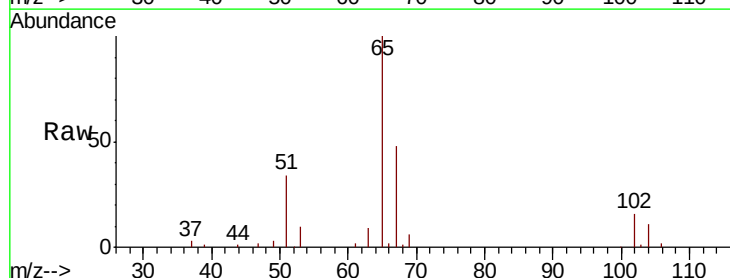


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

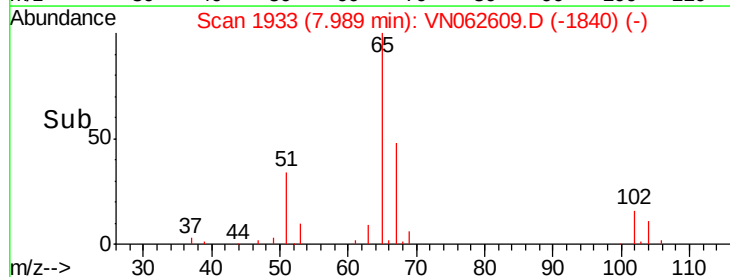
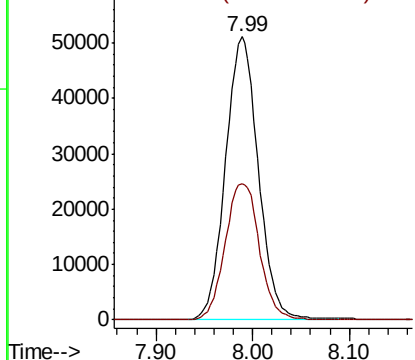


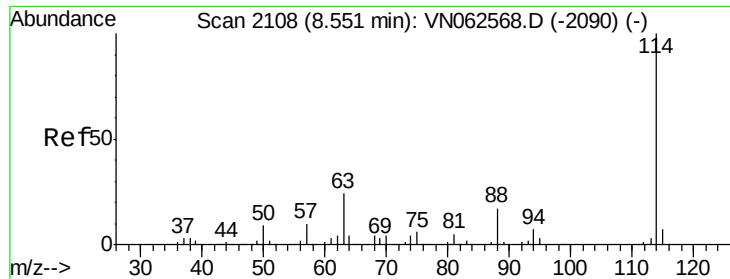
#33
1,2-Dichloroethane-d4
Concen: 54.436 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Tgt Ion: 65 Resp: 120436
Ion Ratio Lower Upper
65 100
67 50.3 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

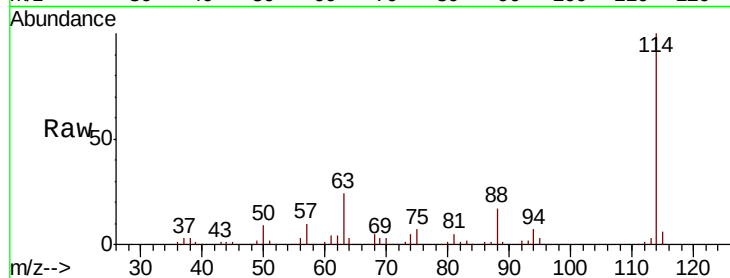




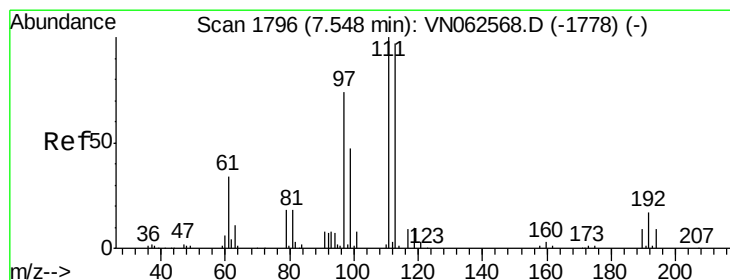
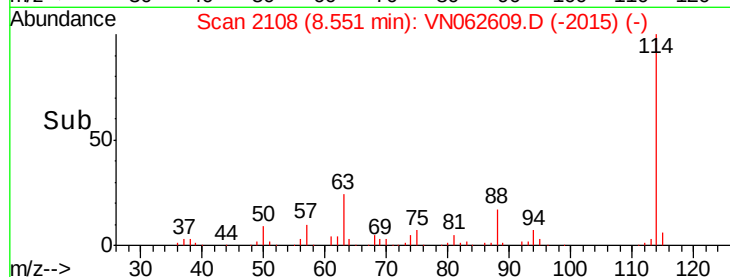
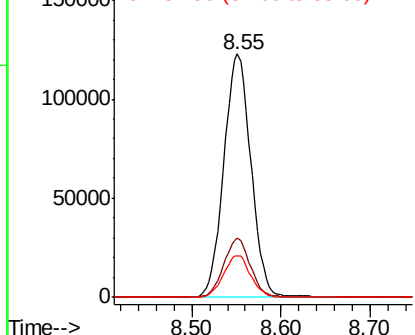
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Instrument :
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PB130485ZHE#06

Tot Ion:114 Resp: 258608
Ion Ratio Lower Upper
114 100
63 24.1 0.0 48.4
88 17.2 0.0 33.8

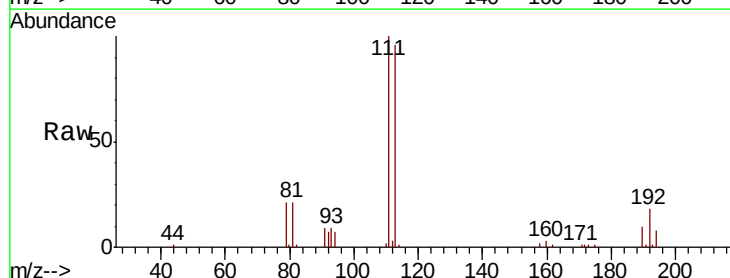


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

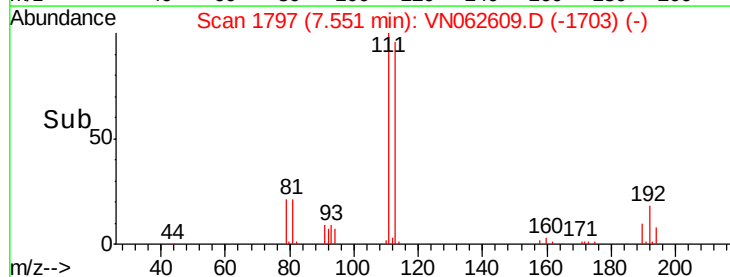
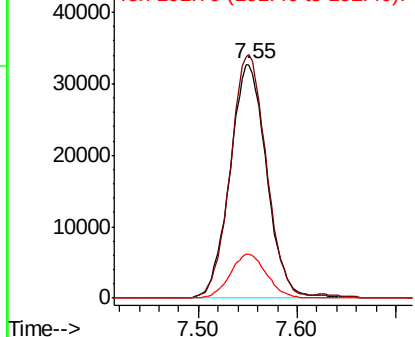


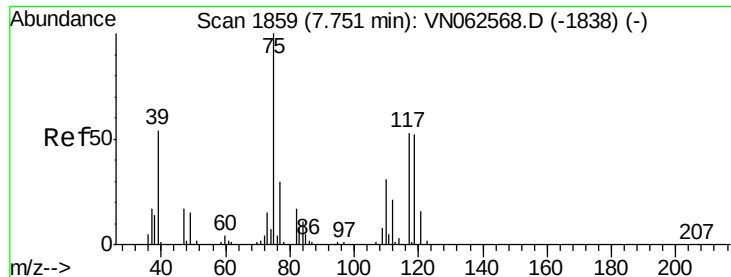
#35
Dibromofluoromethane
Concen: 49.819 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Tgt Ion:113 Resp: 84627
Ion Ratio Lower Upper
113 100
111 102.0 82.7 124.1
192 18.6 14.8 22.2



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

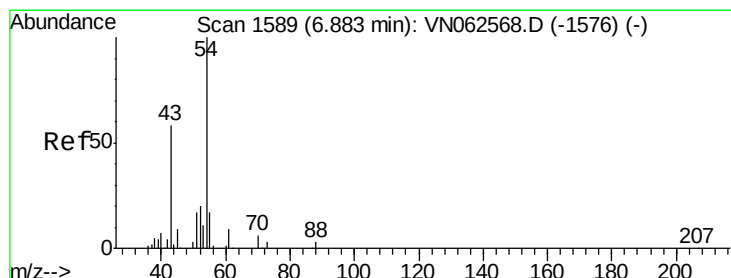
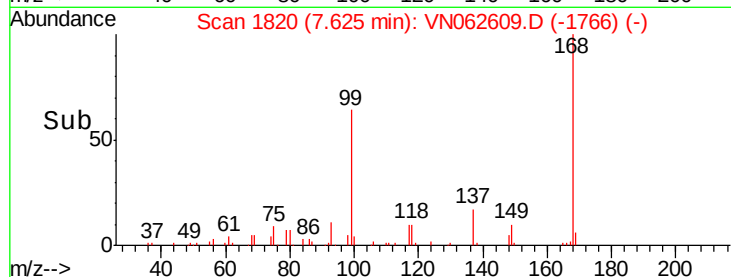
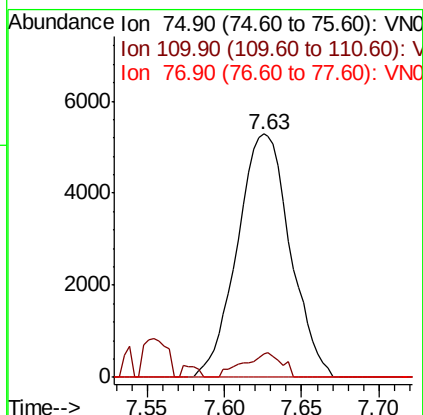
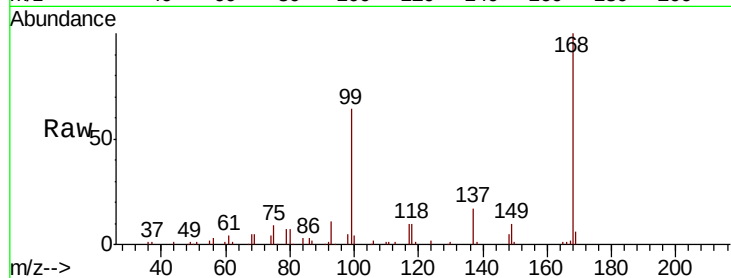




#36
 1,1-Dichloropropene
 Concen: 4.561 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062609.D
 Acq: 27 Jul 2020 19:32

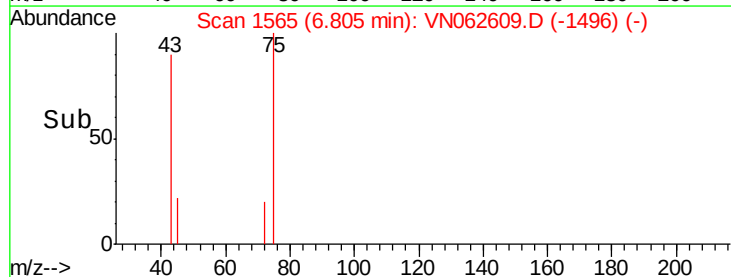
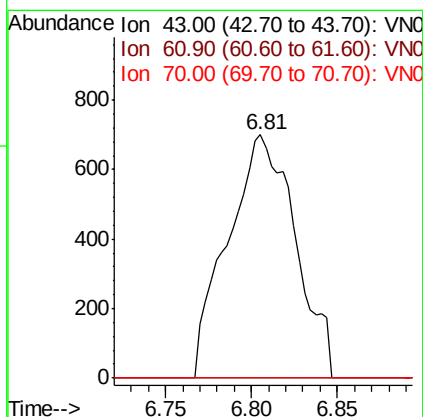
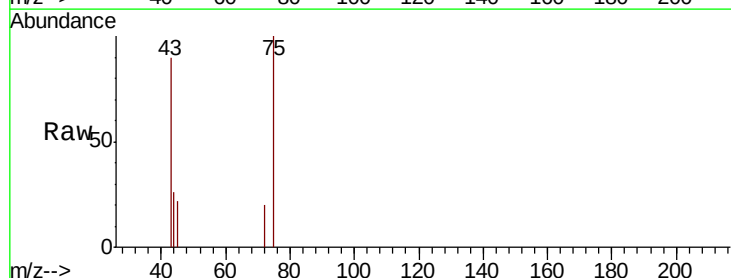
Instrument :
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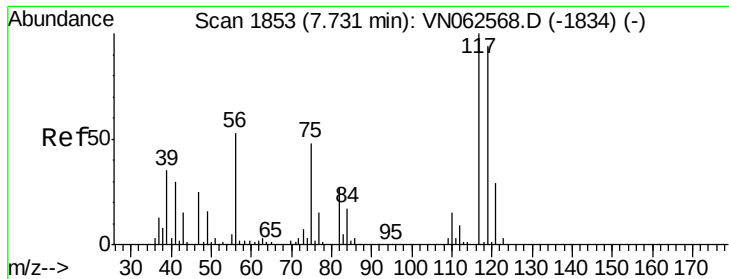
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.3	16.0	48.0#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 0.644 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.08 min
 Lab File: VN062609.D
 Acq: 27 Jul 2020 19:32

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	7.7	11.5#

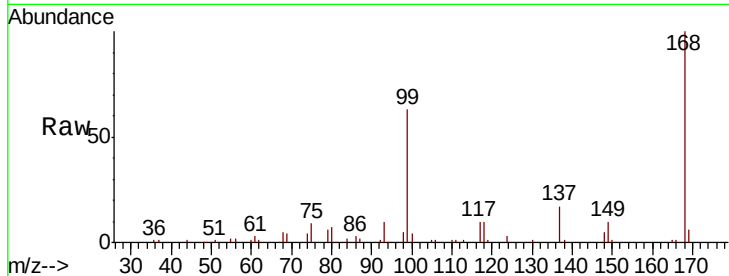




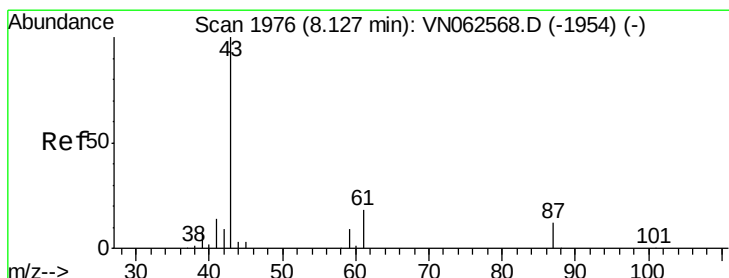
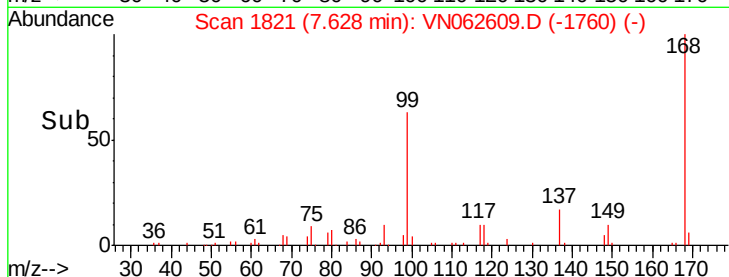
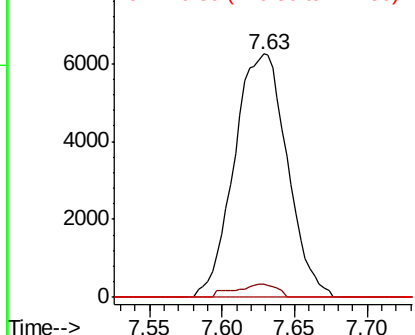
#38
Carbon Tetrachloride
Concen: 5.985 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.10 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Instrument :
MSVOA_N
ClientSampleId :
PB130485ZHE#06

Tot Ion:117 Resp: 15859
Ion Ratio Lower Upper
117 100
119 5.3 74.8 112.2#
121 0.0 23.0 34.6#

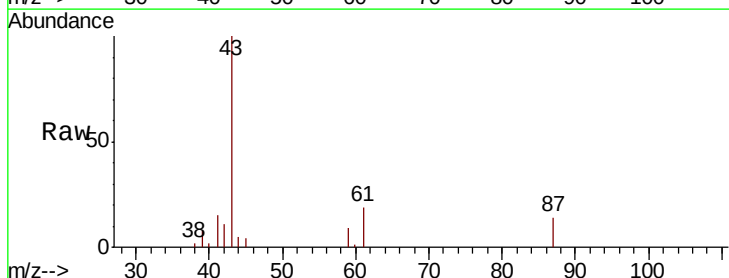


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

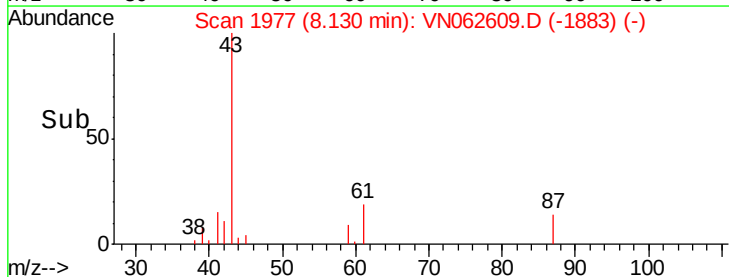
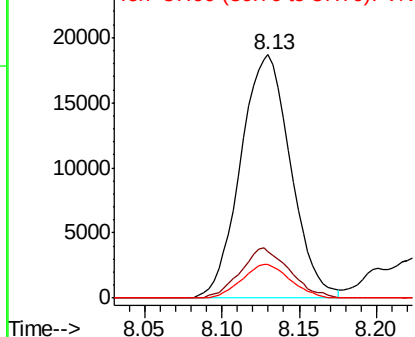


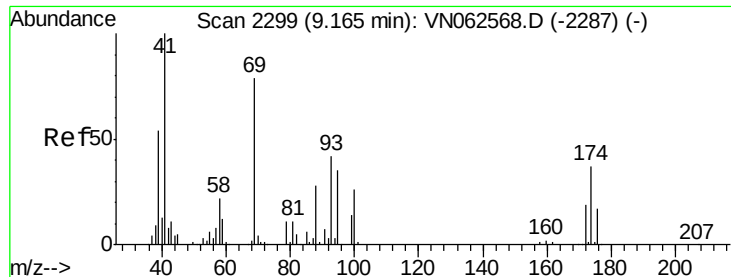
#43
Isopropyl Acetate
Concen: 8.790 ug/l
RT: 8.13 min Scan# 1977
Delta R.T. 0.00 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Tgt Ion: 43 Resp: 42104
Ion Ratio Lower Upper
43 100
61 20.0 20.8 31.2#
87 13.2 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

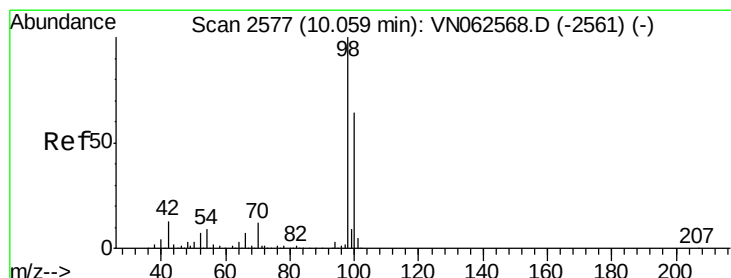
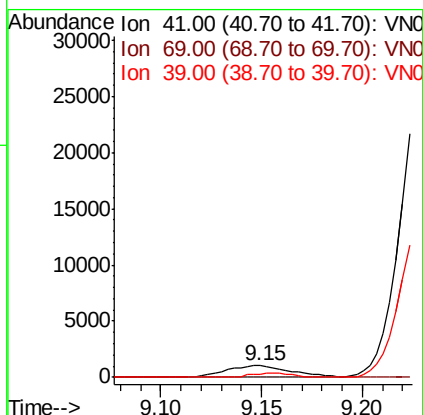
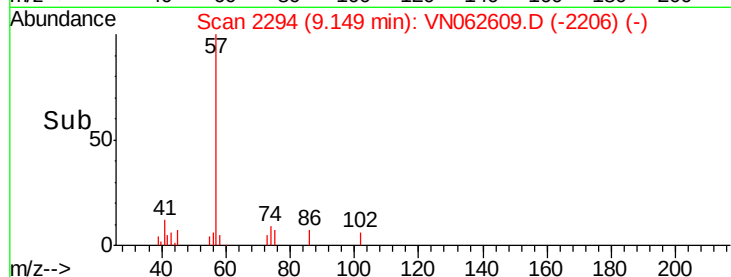
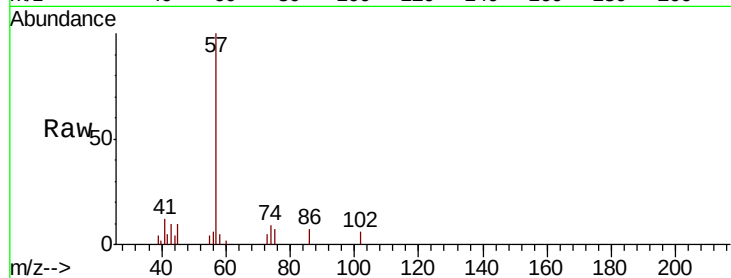




#48
Methvl methacrylate
Concen: 1.023 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

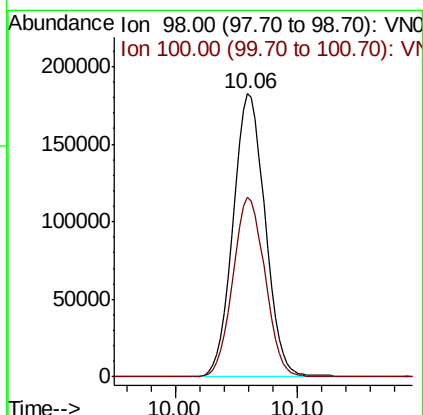
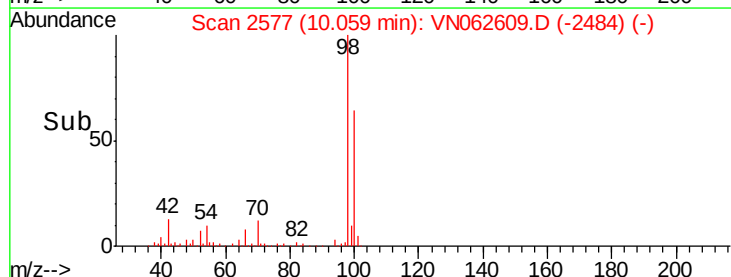
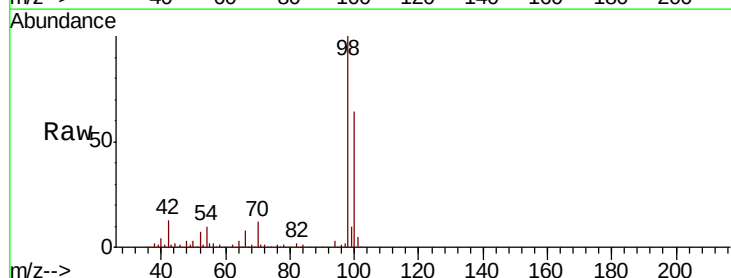
Instrument :
MSVOA_N
ClientSampleId :
PB130485ZHE#06

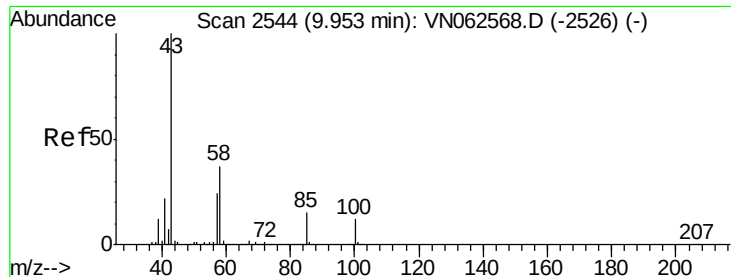
Tot Ion: 41 Resp: 2330
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 49.167 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Tgt Ion: 98 Resp: 333238
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 1.845 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN062609.D

Acq: 27 Jul 2020 19:32

Instrument :

MSVOA_N

ClientSampleId :

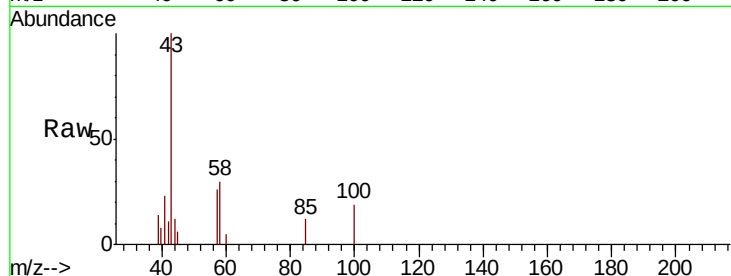
PB130485ZHE#06

Tot Ion: 43 Resp: 5287

Ion Ratio Lower Upper

43 100

58 35.5 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN062568.D (-2526) (-)

Ion 58.00 (57.70 to 58.70): VN062568.D (-2526) (-)

6000

5000

4000

3000

2000

1000

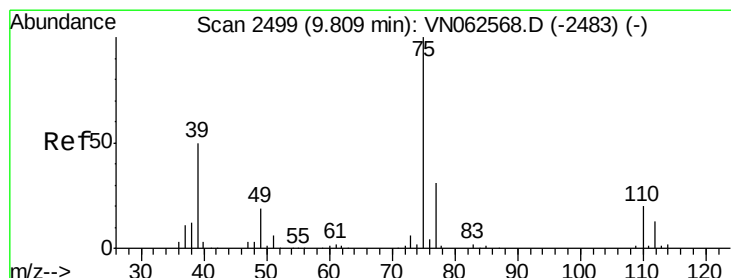
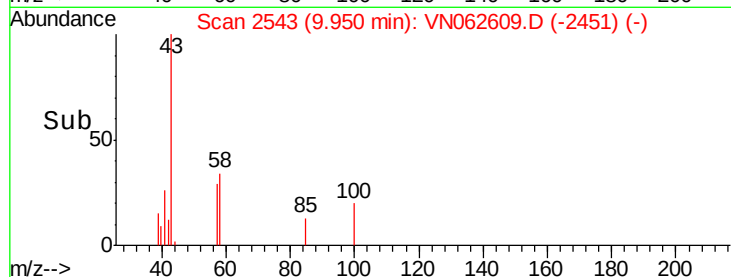
0

9.90

9.95

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.099 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062609.D

Acq: 27 Jul 2020 19:32

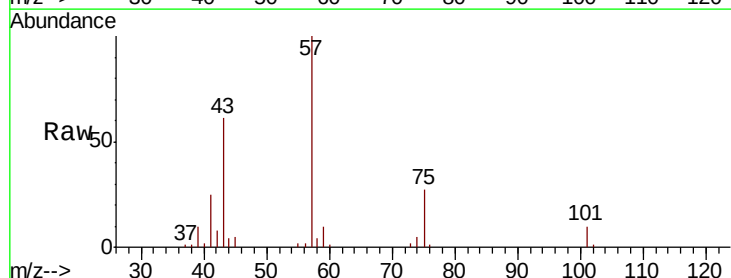
Tgt Ion: 75 Resp: 17869

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 35.8 39.8 59.8#



Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-2483) (-)

Ion 76.90 (76.60 to 77.60): VN062568.D (-2483) (-)

Ion 39.00 (38.70 to 39.70): VN062568.D (-2483) (-)

10000

5000

0

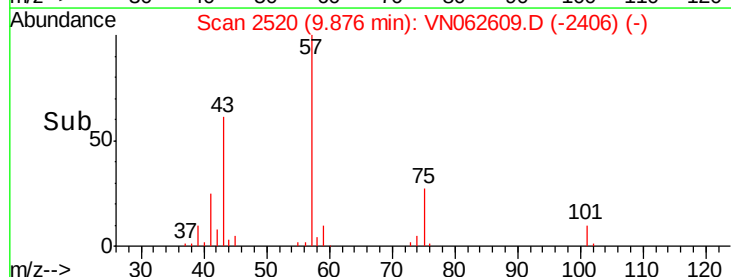
9.80

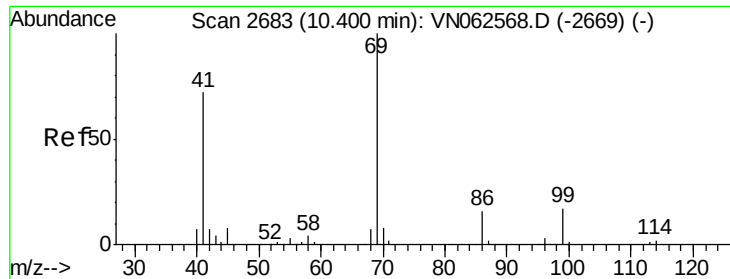
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 2.015 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062609.D

Acq: 27 Jul 2020 19:32

Instrument :

MSVOA_N

ClientSampleId :

PB130485ZHE#06

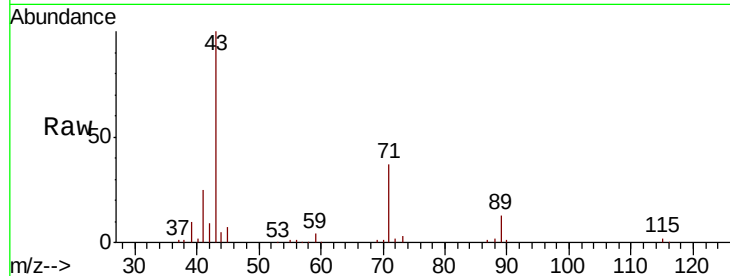
Tot Ion: 69 Resp: 859

Ion Ratio Lower Upper

69 100

41 4604.8 57.2 85.8#

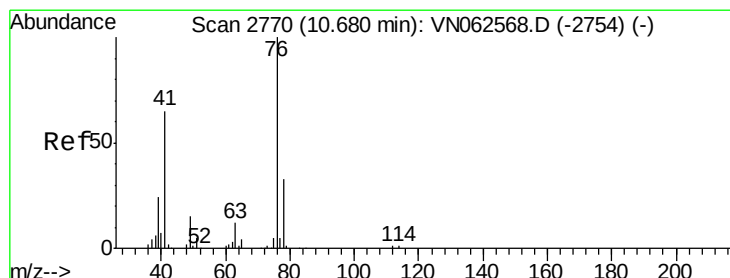
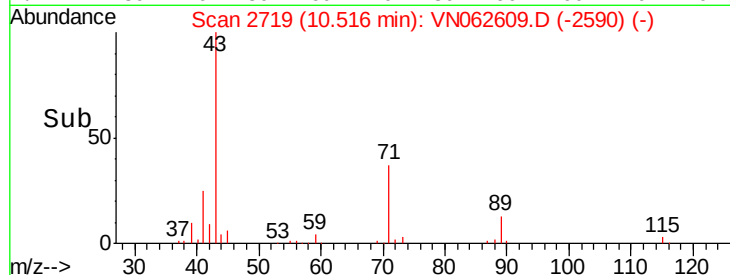
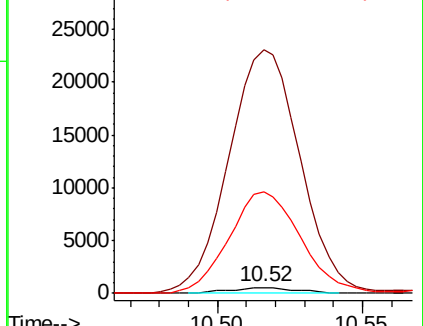
39 1918.6 28.6 43.0#



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: 0.951 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062609.D

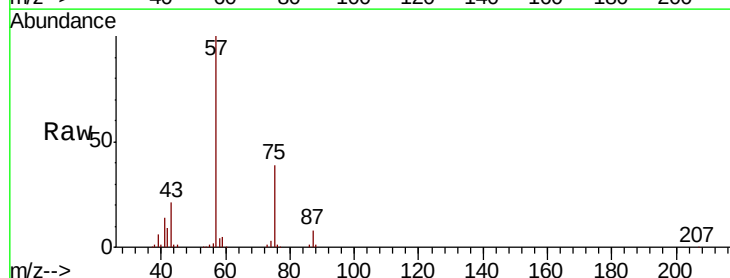
Acq: 27 Jul 2020 19:32

Tgt Ion: 76 Resp: 3274

Ion Ratio Lower Upper

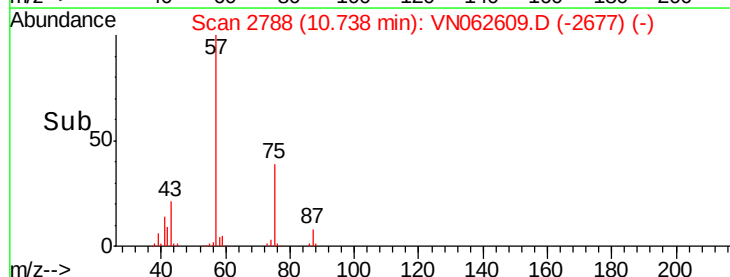
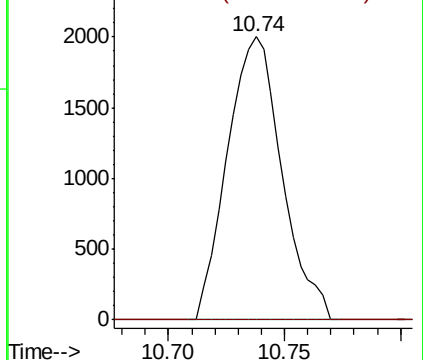
76 100

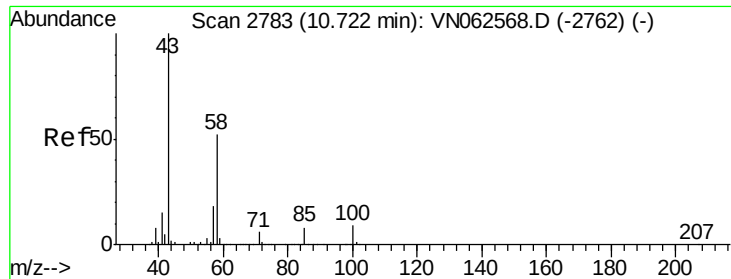
78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

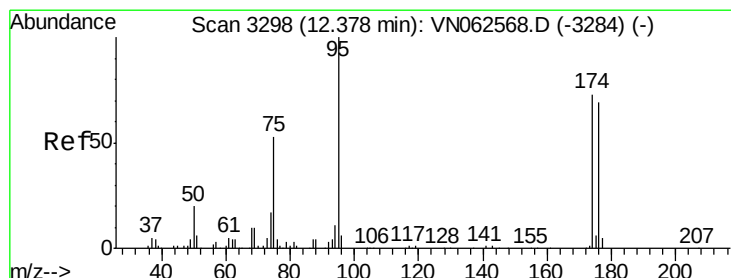
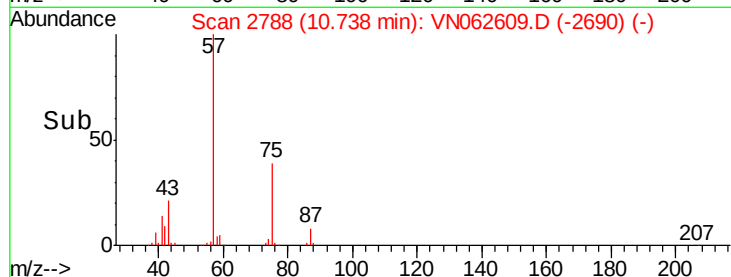
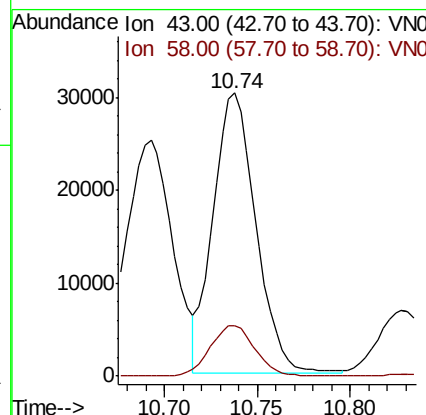
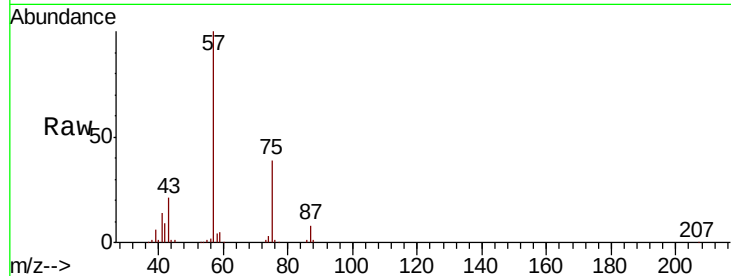




#59
2-Hexanone
Concen: 24.518 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

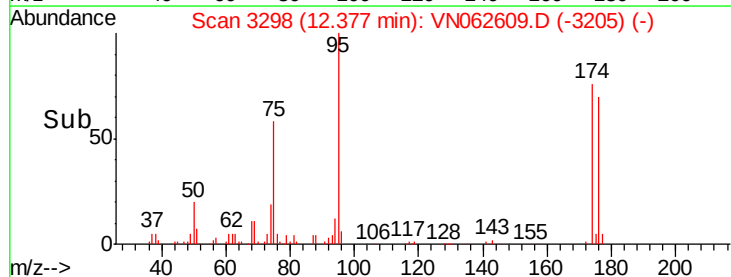
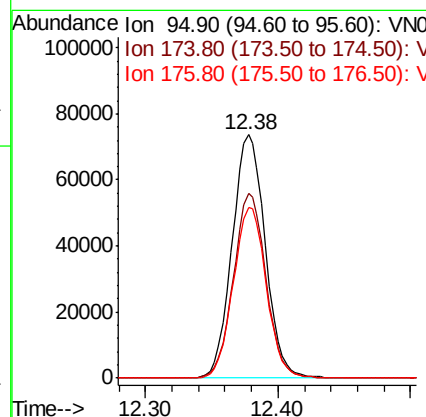
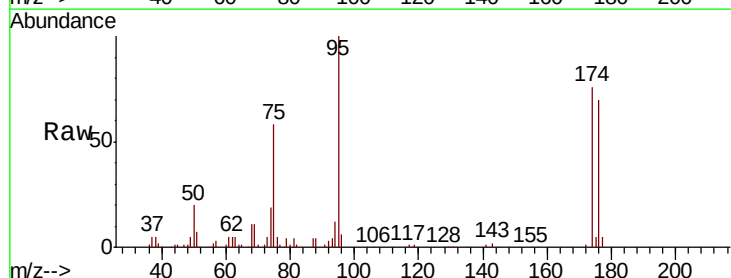
Instrument :
MSVOA_N
ClientSampleId :
PB130485ZHE#06

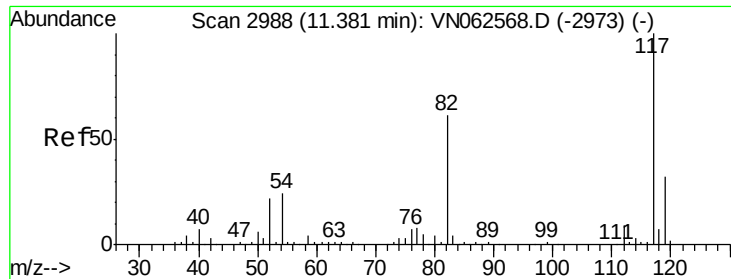
Tot Ion: 43 Resp: 48358
Ion Ratio Lower Upper
43 100
58 18.8 26.0 78.0#



#62
4-Bromofluorobenzene
Concen: 51.530 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Tgt Ion: 95 Resp: 127702
Ion Ratio Lower Upper
95 100
174 74.3 0.0 144.6
176 70.2 0.0 139.4

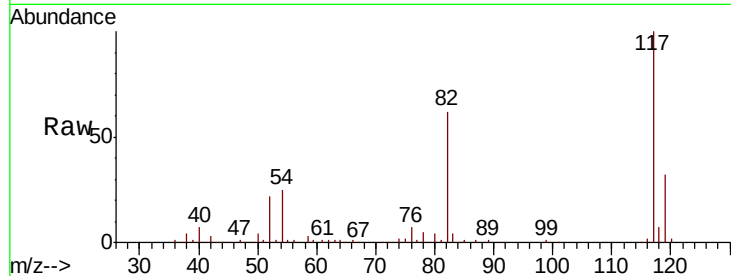




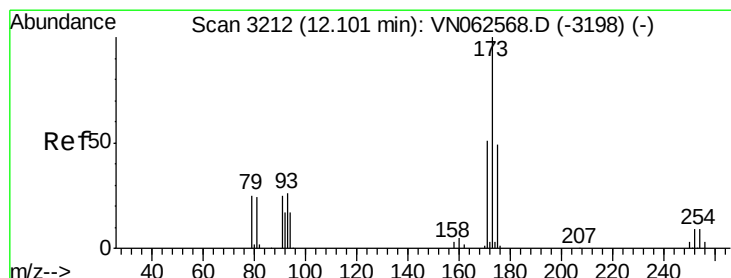
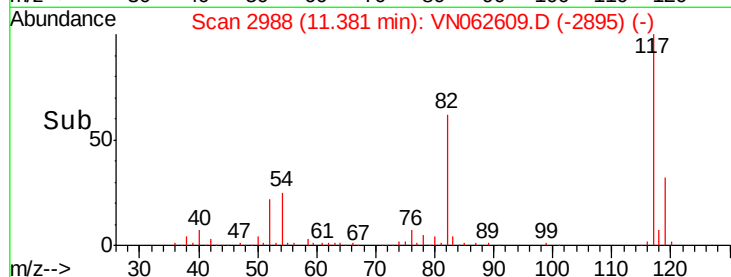
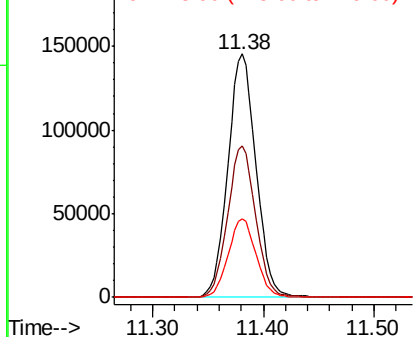
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Instrument :
MSVOA_N
ClientSampleId :
PB130485ZHE#06

Tot Ion:117 Resp: 256532
Ion Ratio Lower Upper
117 100
82 62.4 49.0 73.6
119 32.4 25.4 38.2

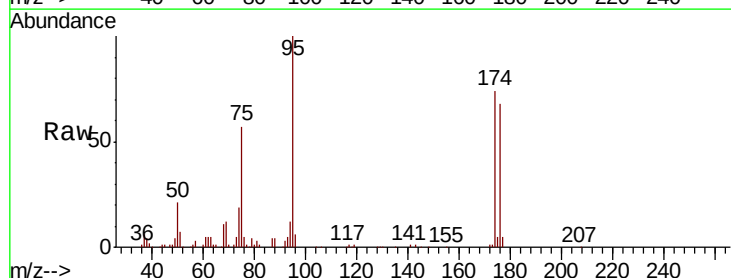


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

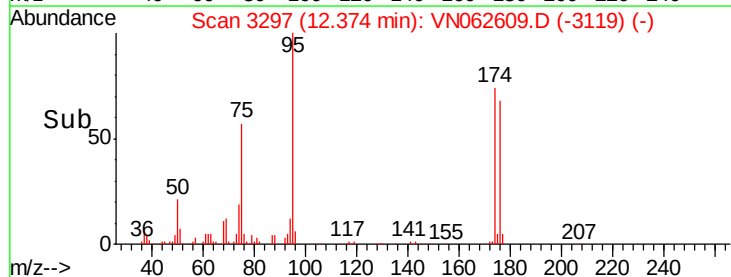
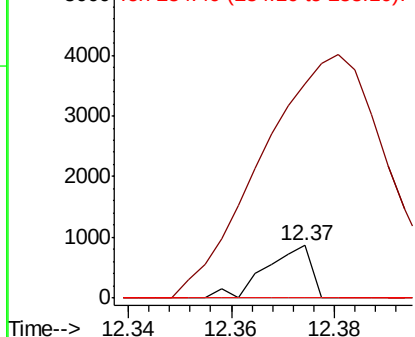


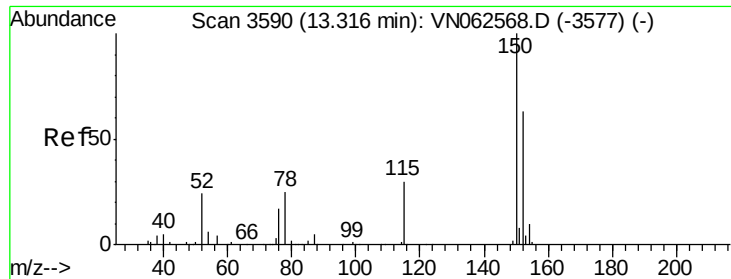
#71
Bromoform
Concen: 0.344 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062609.D
Acq: 27 Jul 2020 19:32

Tgt Ion:173 Resp: 522
Ion Ratio Lower Upper
173 100
175 1091.4 24.1 72.2#
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# 3591

Delta R.T. 0.00 min

Lab File: VN062609.D

Acq: 27 Jul 2020 19:32

Instrument :

MSVOA_N

ClientSampleId :

PB130485ZHE#06

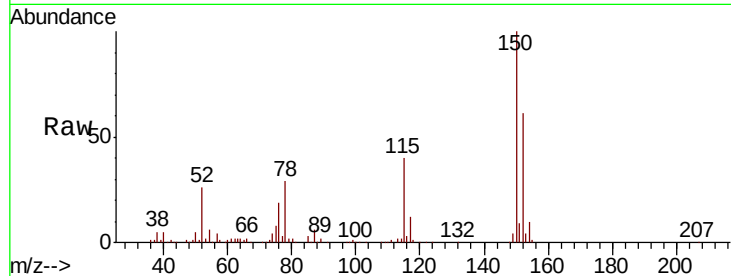
Tot Ion:152 Resp: 107929

Ion Ratio Lower Upper

152 100

115 64.8 31.8 95.4

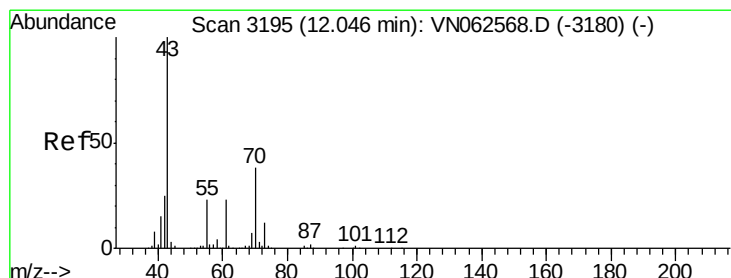
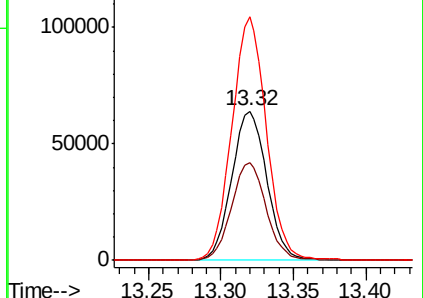
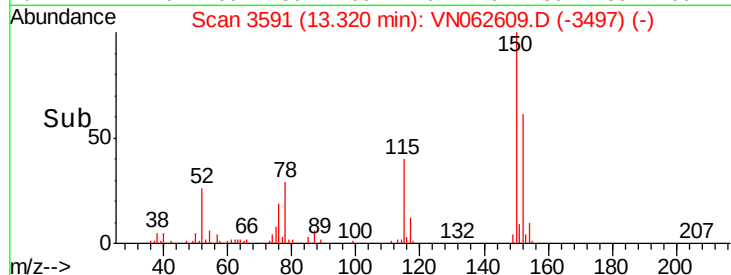
150 160.3 0.0 351.4



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: 0.266 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062609.D

Acq: 27 Jul 2020 19:32

Tgt Ion: 43 Resp: 1014

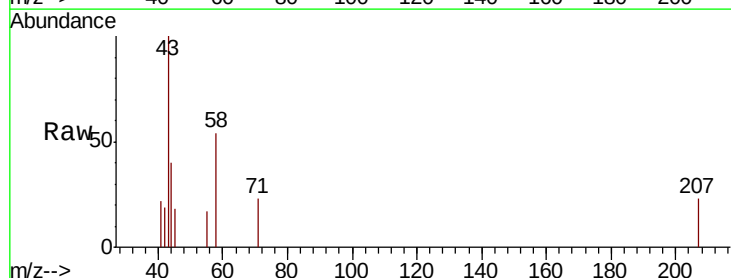
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 5.8 19.0 28.6#

61 0.0 18.4 27.6#

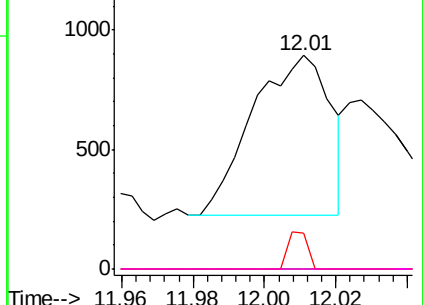
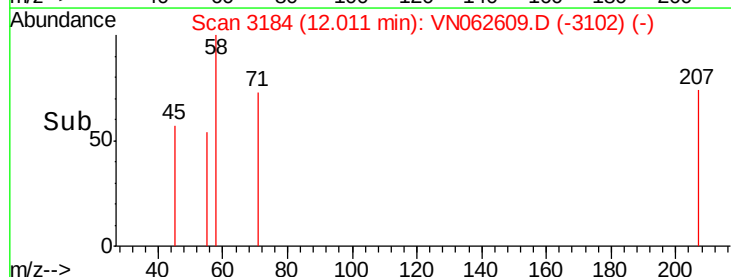


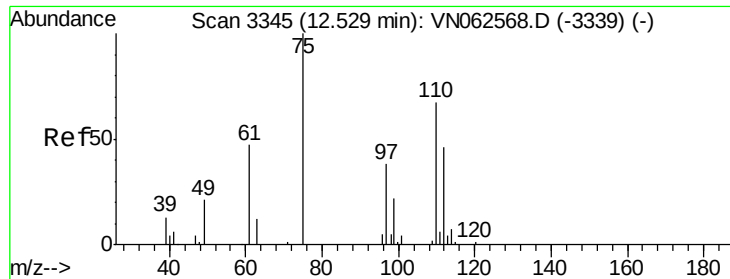
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 26.310 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062609.D

Acq: 27 Jul 2020 19:32

Instrument :

MSVOA_N

ClientSampleId :

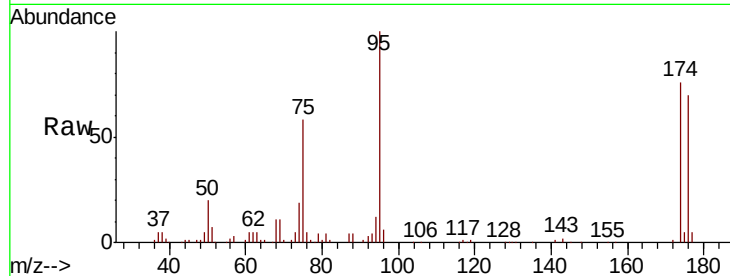
PB130485ZHE#06

Tot Ion: 75 Resp: 72279

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-3339) (-)

Ion 77.00 (76.70 to 77.70): VN062568.D (-3339) (-)

12.38

40000

30000

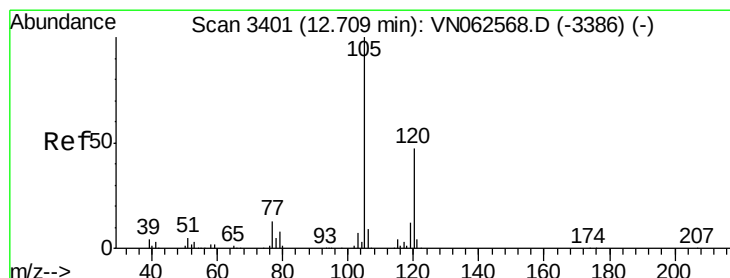
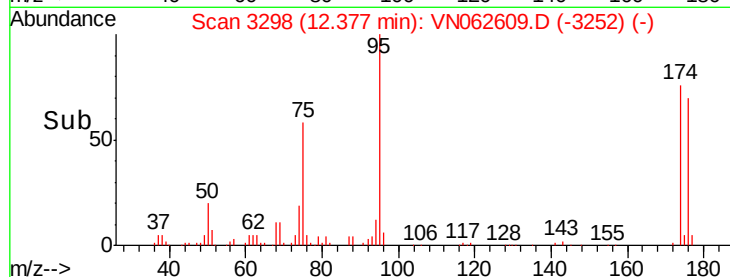
20000

10000

0

Time-->

12.30 12.35 12.40 12.45



#80

1,3,5-Trimethylbenzene

Concen: 0.246 ug/l

RT: 12.71 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN062609.D

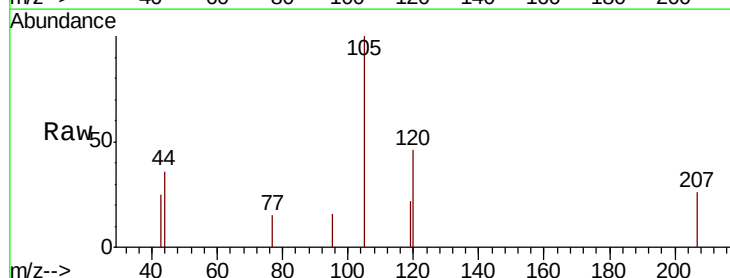
Acq: 27 Jul 2020 19:32

Tgt Ion: 105 Resp: 1744

Ion Ratio Lower Upper

105 100

120 48.9 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): VN062568.D (-3386) (-)

Ion 120.00 (119.70 to 120.70): VN062568.D (-3386) (-)

12.71

1000

800

600

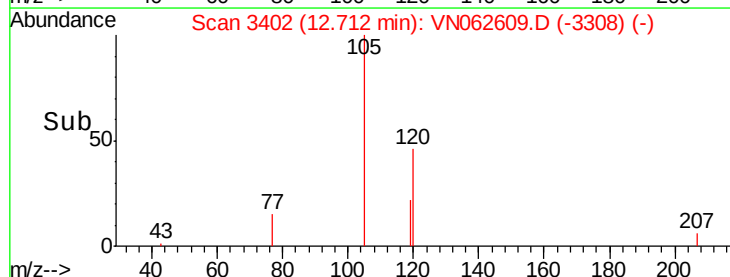
400

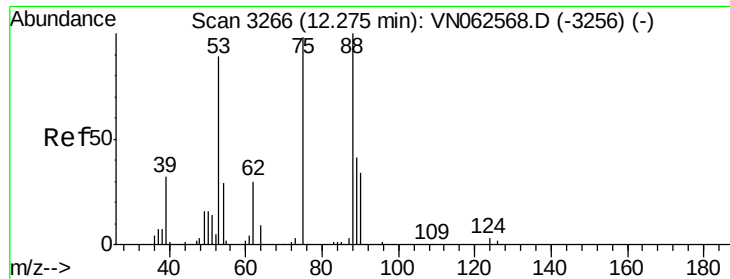
200

0

Time-->

12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 73.242 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062609.D

Acq: 27 Jul 2020 19:32

Instrument :

MSVOA_N

ClientSampleId :

PB130485ZHE#06

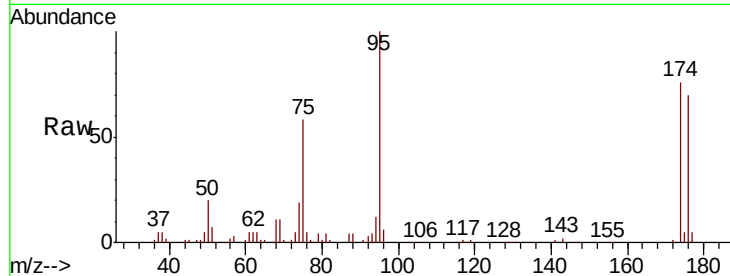
Tot Ion: 75 Resp: 72279

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

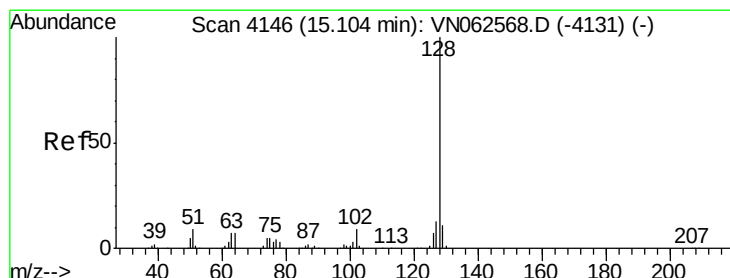
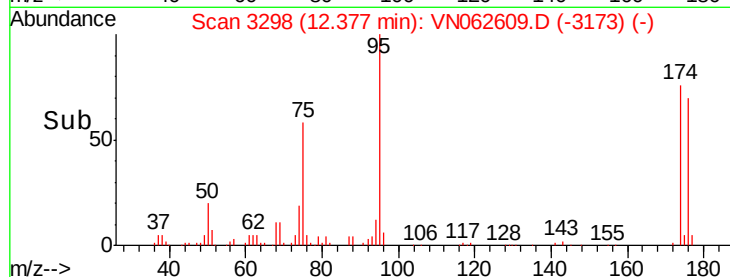
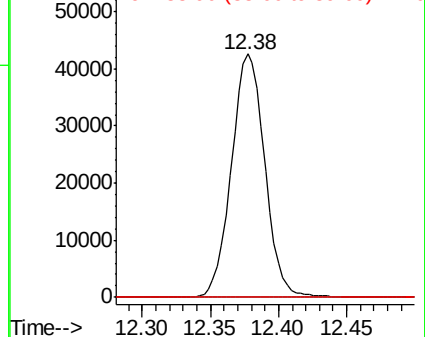
89 0.0 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN062568.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN062568.D (-3256) (-)



#95

Naphthalene

Concen: 3.787 ug/l

RT: 15.11 min Scan# 4149

Delta R.T. 0.01 min

Lab File: VN062609.D

Acq: 27 Jul 2020 19:32

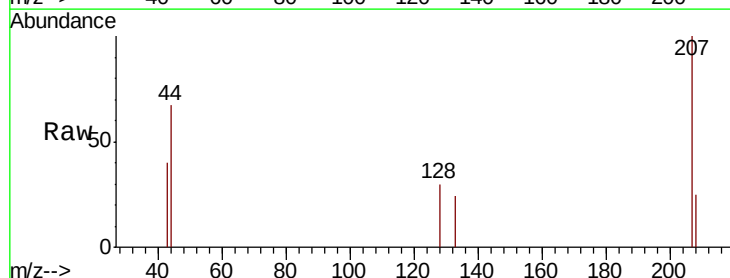
Tgt Ion: 128 Resp: 134

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN062568.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN062568.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN062568.D (-4131) (-)

