

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN063020\
 Data File : VN062242.D
 Acq On : 30 Jun 2020 16:14
 Operator : JC/MD
 Sample : L3127-06 200X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20200625

Quant Time: Jul 01 03:36:21 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	189482	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	364248	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	335929	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	115614	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	145031	54.54	ug/l	0.00
Spiked Amount			Recovery	=	109.08%	
35) Dibromofluoromethane	7.55	113	119839	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
50) Toluene-d8	10.06	98	461881	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	12.38	95	142243	45.07	ug/l	0.00
Spiked Amount			Recovery	=	90.14%	

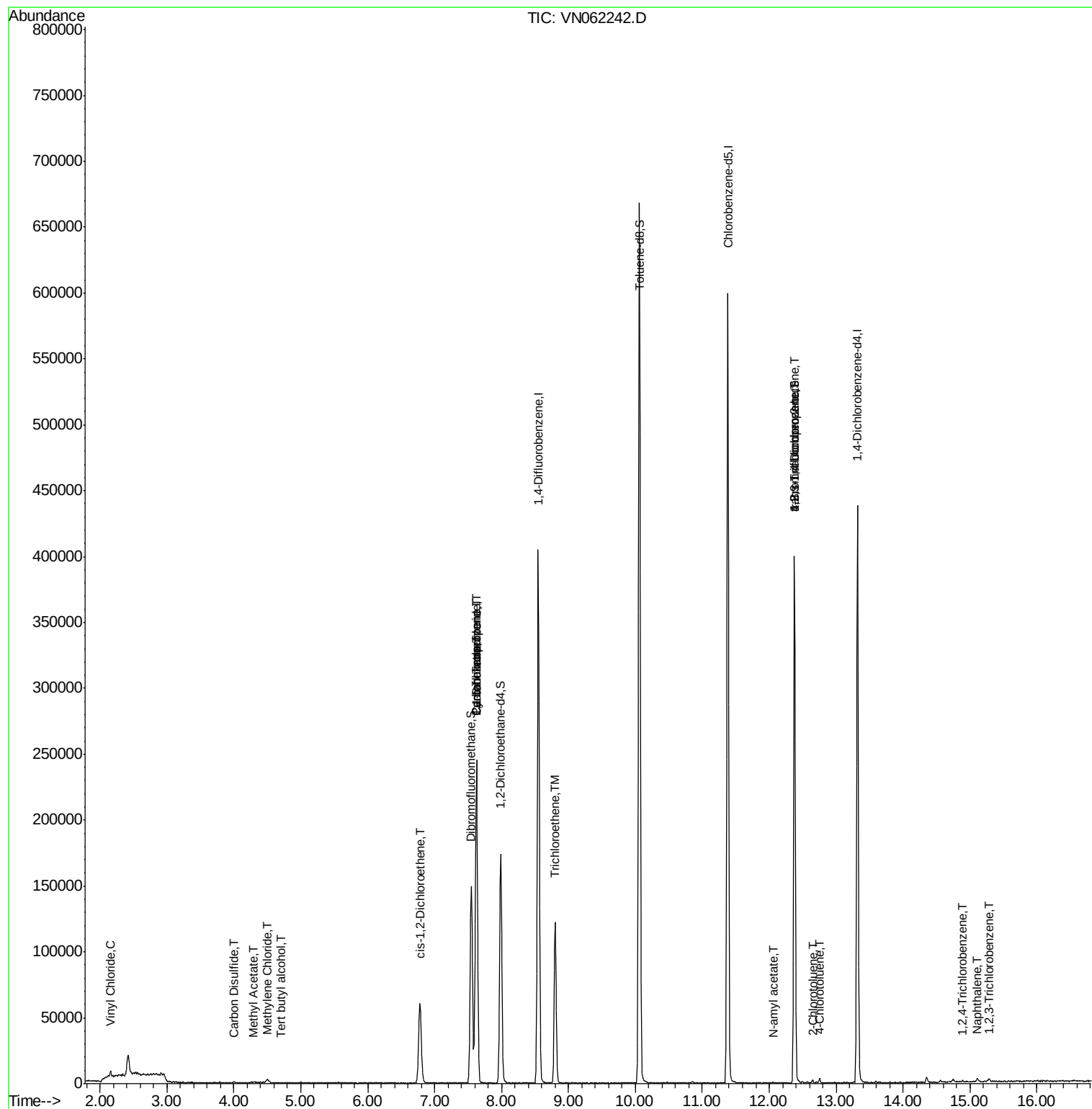
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	266	Below Cal	#	64
4) Vinyl Chloride	2.16	62	3341	0.991	ug/l	93
11) Tert butyl alcohol	4.71	59	105	0.275	ug/l #	72
16) Acetone	3.80	43	637	Below Cal	#	40
17) Carbon Disulfide	4.00	76	1260	0.252	ug/l #	75
18) Methyl Acetate	4.29	43	1122	0.531	ug/l #	46
20) Methylene Chloride	4.50	84	2019	0.613	ug/l #	82
27) cis-1,2-Dichloroethene	6.78	96	39003	13.984	ug/l	93
31) Cyclohexane	7.62	56	5056	1.376	ug/l #	28
36) 1,1-Dichloropropene	7.62	75	16701	4.562	ug/l #	46
38) Carbon Tetrachloride	7.63	117	19654	5.694	ug/l #	16
44) Trichloroethene	8.80	130	45108	16.024	ug/l	99
74) N-amyl acetate	12.06	43	251	3.414	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	72981	26.815	ug/l #	100
79) 2-Chlorotoluene	12.65	91	1830	0.296	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.38	75	72981	78.310	ug/l #	13
82) 4-Chlorotoluene	12.75	91	2760	0.431	ug/l	79
93) 1,2,4-Trichlorobenzene	14.89	180	747	0.452	ug/l #	82
95) Naphthalene	15.11	128	3369	4.557	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.29	180	803	0.475	ug/l	93

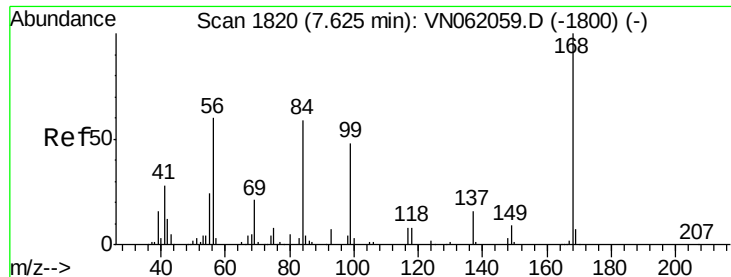
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

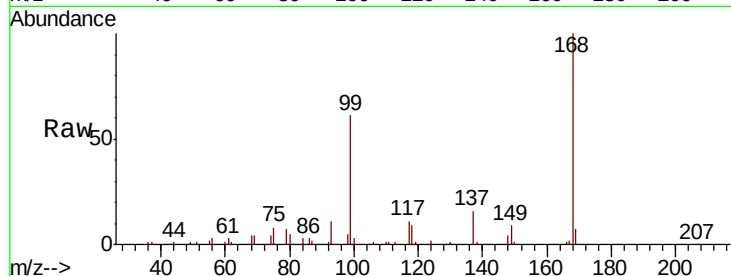
DUP01-20200625

Tot Ion:168 Resp: 189482

Ion Ratio Lower Upper

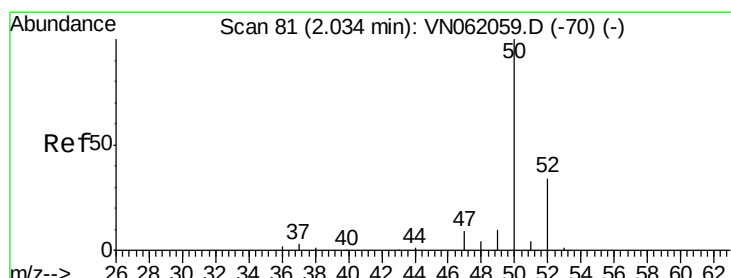
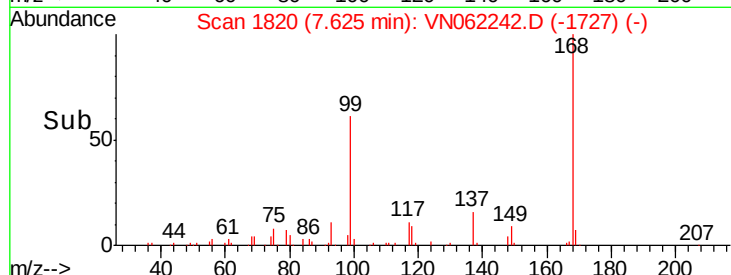
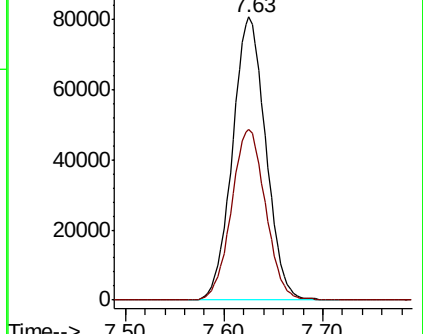
168 100

99 60.5 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062242.D

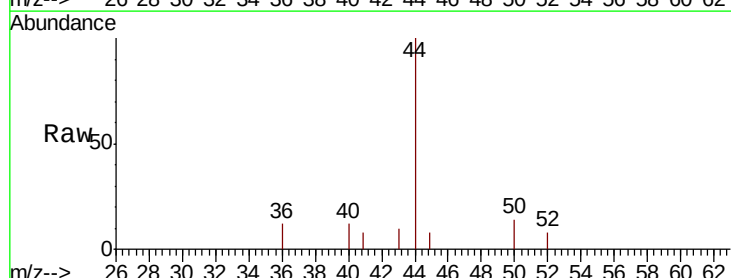
Acq: 30 Jun 2020 16:14

Tgt Ion: 50 Resp: 266

Ion Ratio Lower Upper

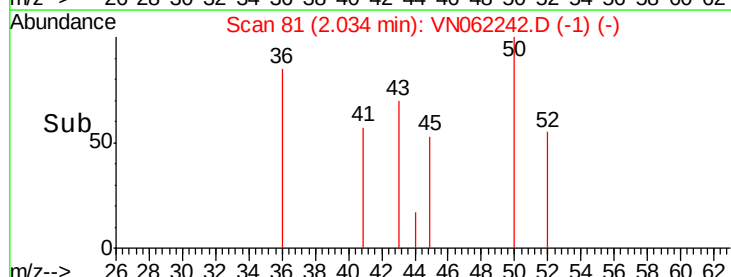
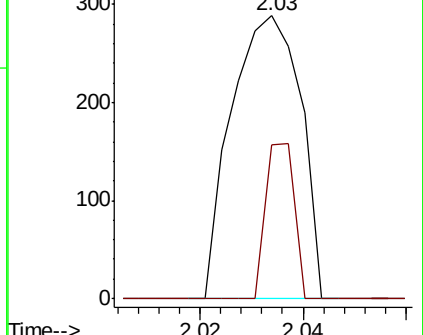
50 100

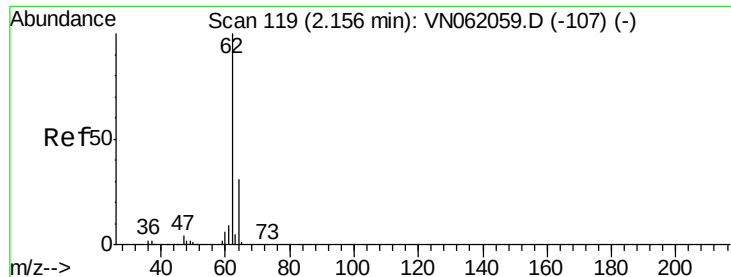
52 54.5 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#4

Vinyl Chloride

Concen: 0.991 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

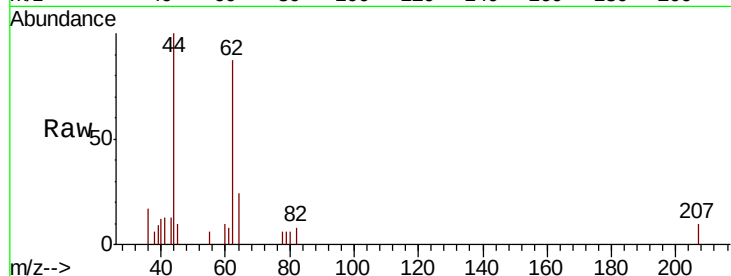
DUP01-20200625

Tot Ion: 62 Resp: 3341

Ion Ratio Lower Upper

62 100

64 27.3 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.16

2500

2000

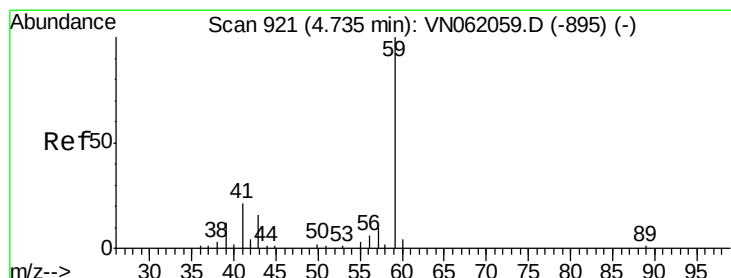
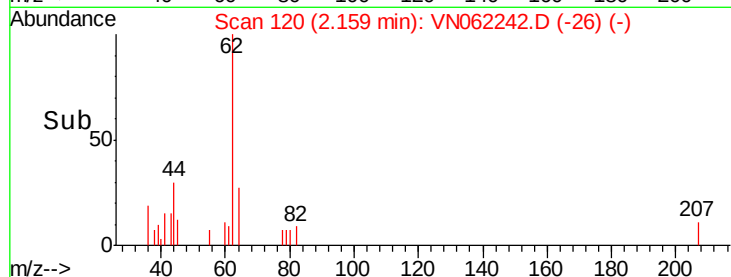
1500

1000

500

0

Time--> 2.10 2.15 2.20



#11

Tert butyl alcohol

Concen: 0.275 ug/l

RT: 4.71 min Scan# 912

Delta R.T. -0.03 min

Lab File: VN062242.D

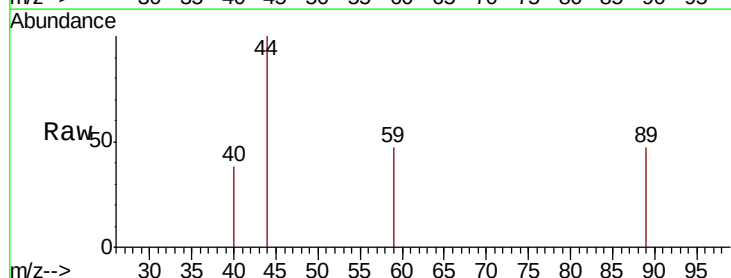
Acq: 30 Jun 2020 16:14

Tgt Ion: 59 Resp: 105

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.71

200

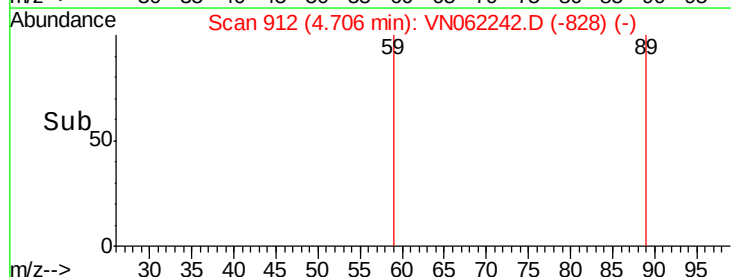
150

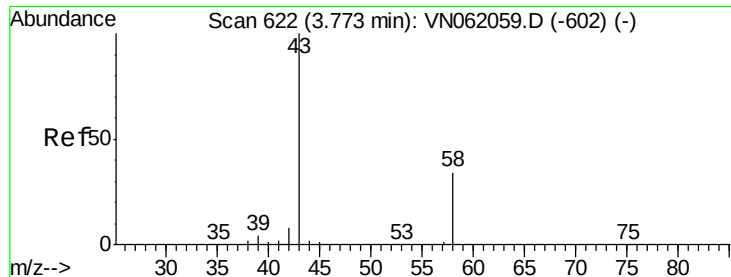
100

50

0

Time--> 4.69 4.70 4.71 4.72





#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

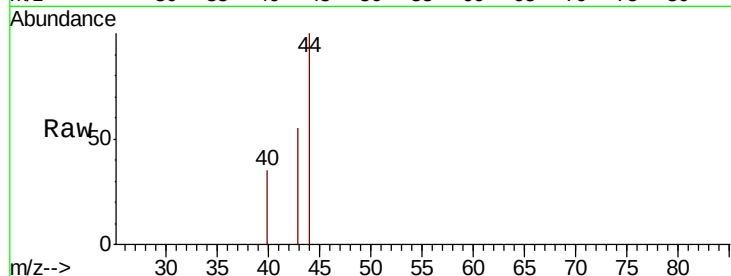
DUP01-20200625

Tot Ion: 43 Resp: 637

Ion Ratio Lower Upper

43 100

58 0.0 27.5 41.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-602) (-)

Ion 58.00 (57.70 to 58.70): VN062059.D (-602) (-)

3.80

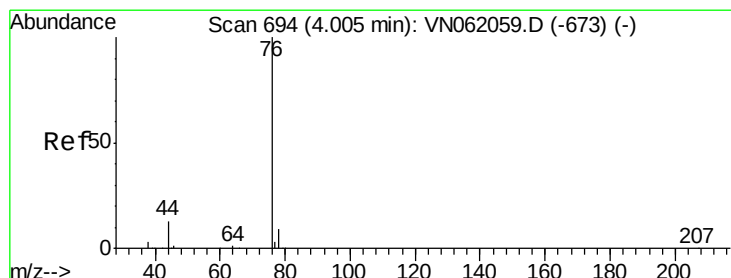
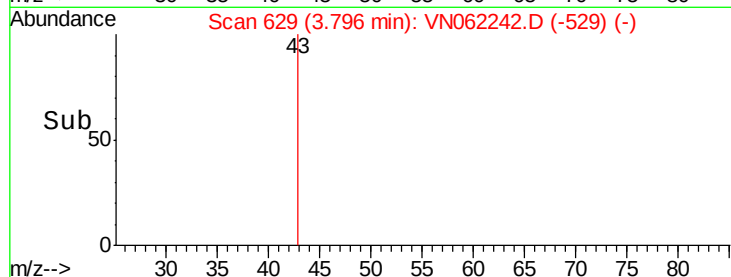
300

200

100

0

Time-->



#17

Carbon Disulfide

Concen: 0.252 ug/l

RT: 4.00 min Scan# 693

Delta R.T. -0.00 min

Lab File: VN062242.D

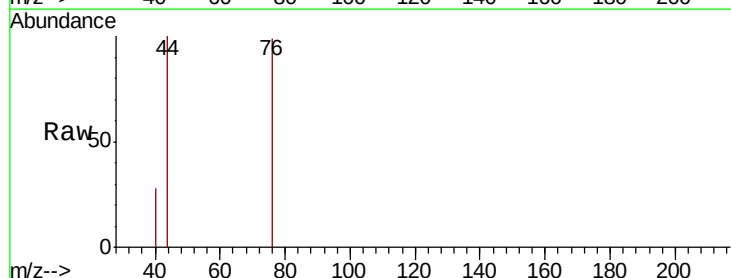
Acq: 30 Jun 2020 16:14

Tgt Ion: 76 Resp: 1260

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062059.D (-673) (-)

Ion 77.90 (77.60 to 78.60): VN062059.D (-673) (-)

4.00

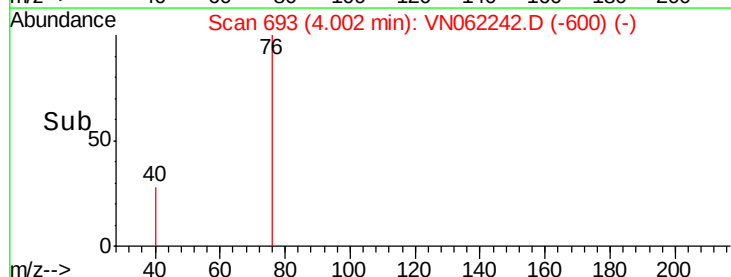
600

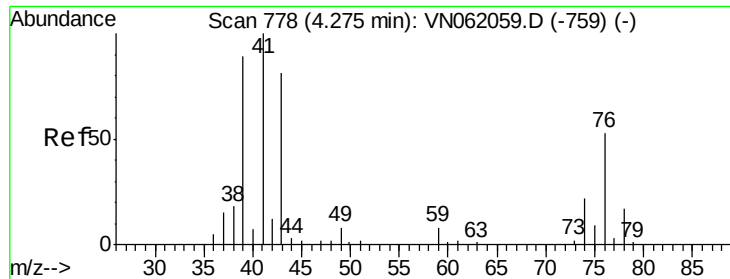
400

200

0

Time-->

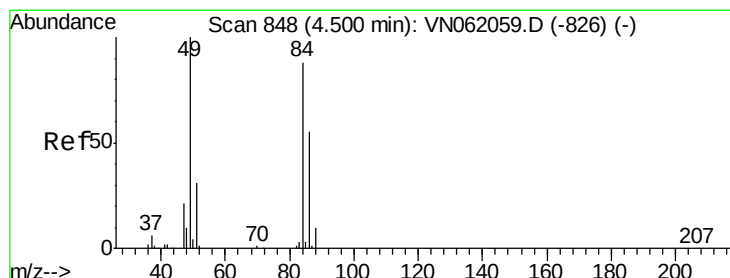
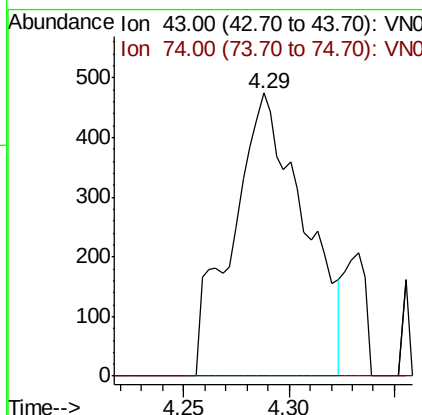
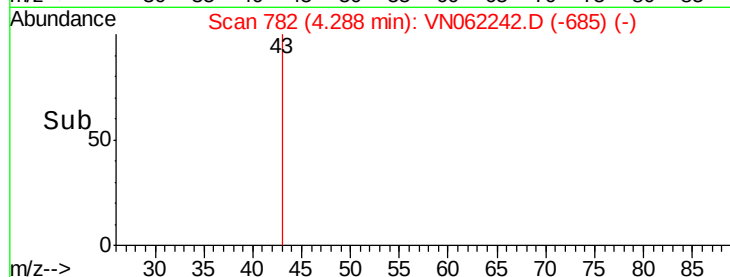
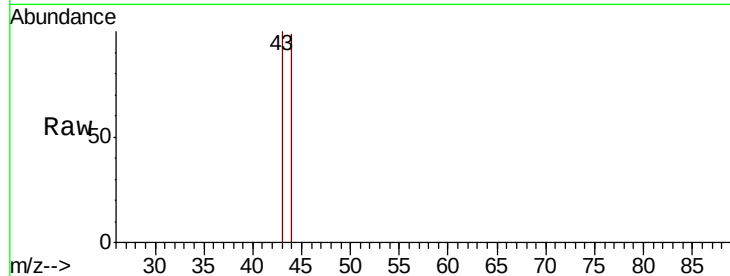




#18
Methvl Acetate
Concen: 0.531 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062242.D
Acq: 30 Jun 2020 16:14

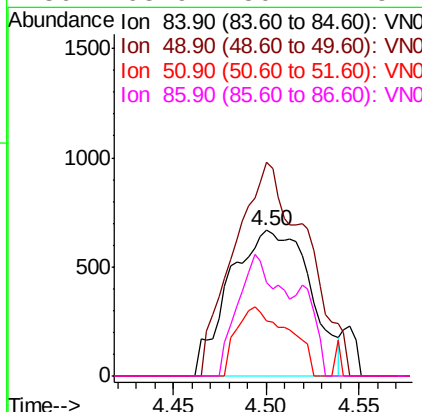
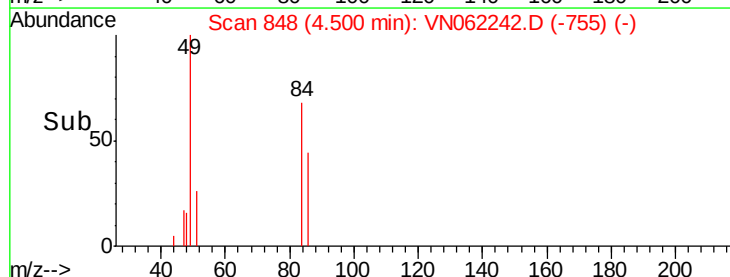
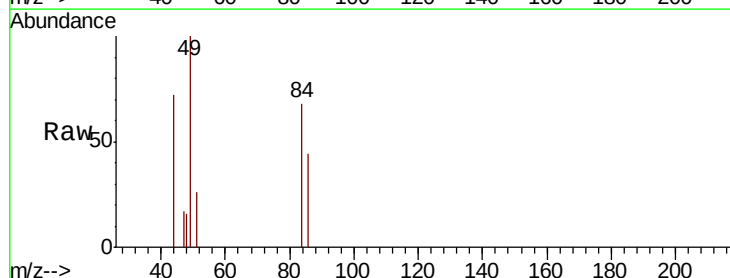
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20200625

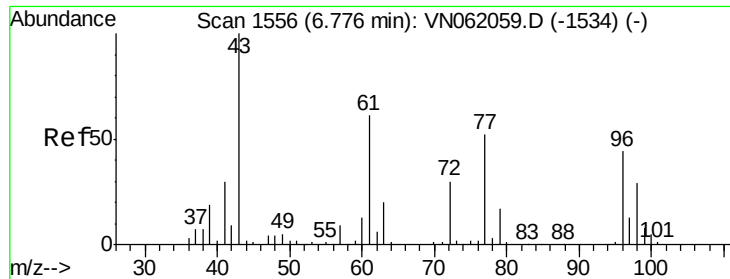
Tot Ion: 43 Resp: 1122
Ion Ratio Lower Upper
43 100
74 0.0 22.9 34.3#



#20
Methylene Chloride
Concen: 0.613 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062242.D
Acq: 30 Jun 2020 16:14

Tgt Ion: 84 Resp: 2019
Ion Ratio Lower Upper
84 100
49 146.6 90.6 136.0#
51 37.9 27.8 41.8
86 63.9 50.1 75.1





#27

cis-1,2-Dichloroethene

Concen: 13.984 ug/l

RT: 6.78 min Scan# 1556

Delta R.T. 0.00 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200625

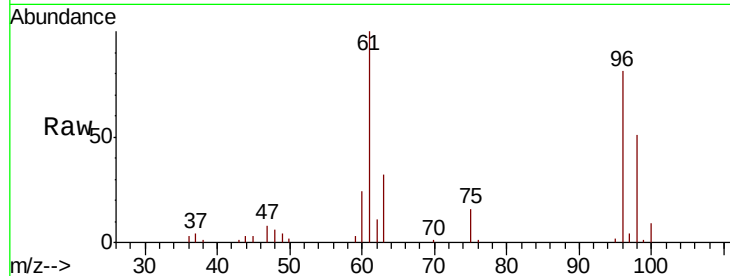
Tot Ion: 96 Resp: 39003

Ion Ratio Lower Upper

96 100

61 127.9 0.0 280.4

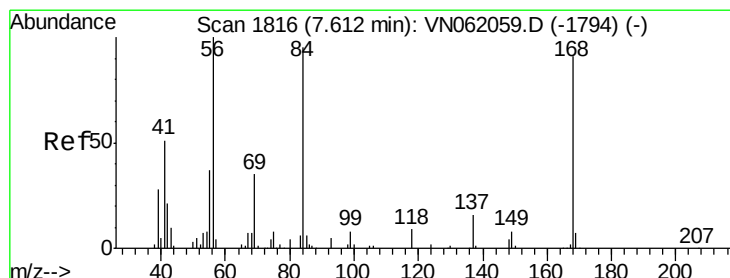
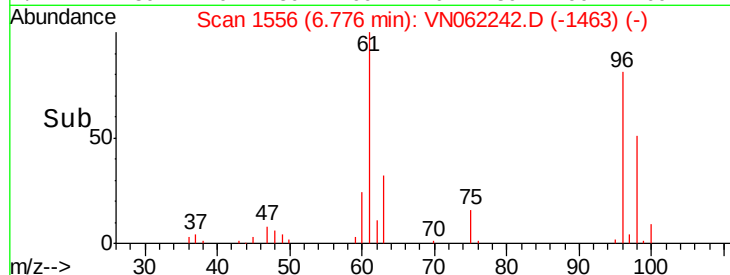
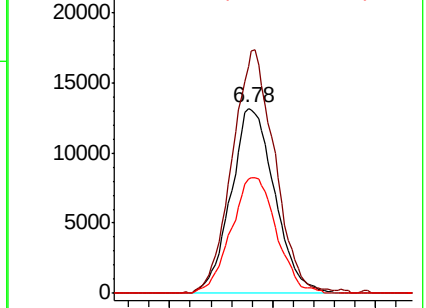
98 64.5 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VN062059.D (-1534) (-)

Ion 60.90 (60.60 to 61.60): VN062059.D (-1534) (-)

Ion 97.90 (97.60 to 98.60): VN062059.D (-1534) (-)



#31

Cyclohexane

Concen: 1.376 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. 0.01 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

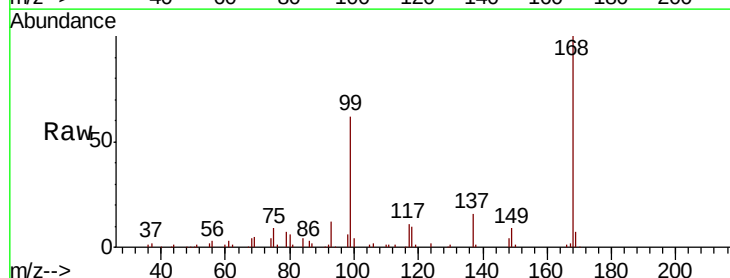
Tgt Ion: 56 Resp: 5056

Ion Ratio Lower Upper

56 100

69 153.6 28.0 42.0#

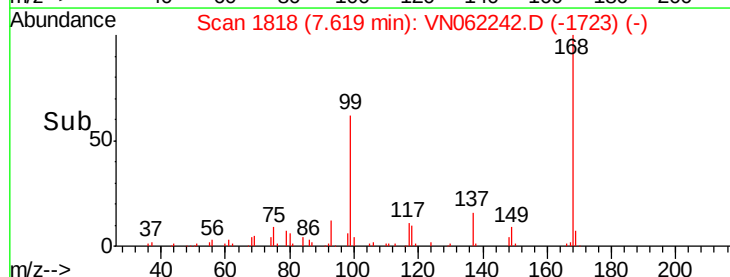
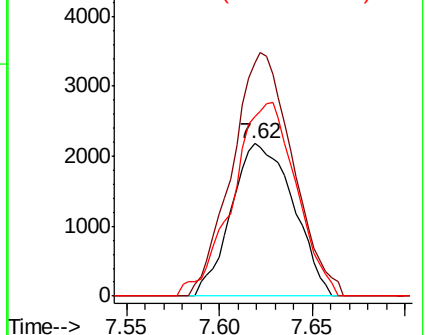
84 118.2 76.1 114.1#

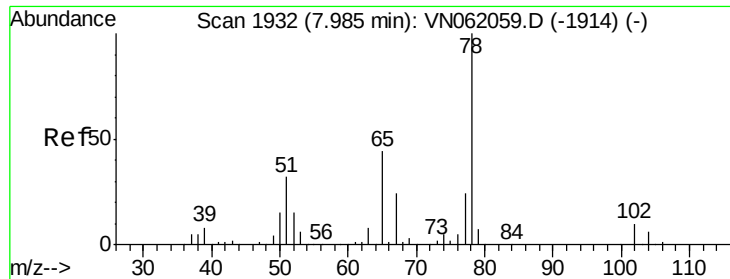


Abundance Ion 56.00 (55.70 to 56.70): VN062059.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN062059.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN062059.D (-1794) (-)

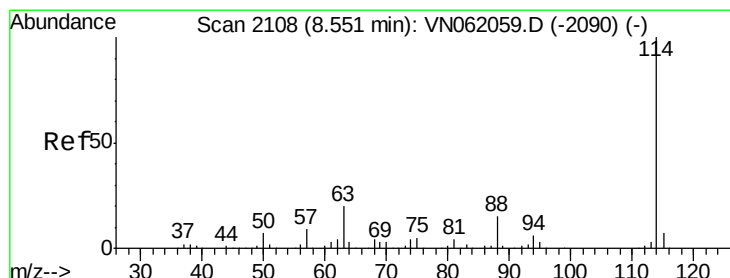
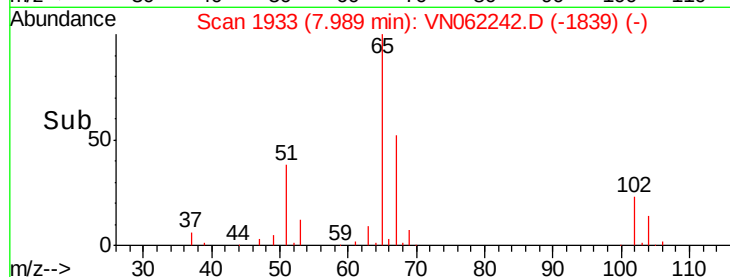
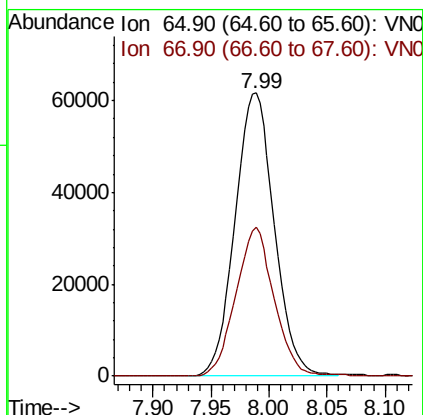
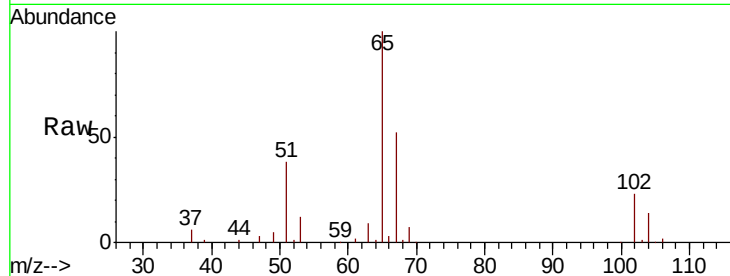




#33
 1,2-Dichloroethane-d4
 Concen: 54.542 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062242.D
 Acq: 30 Jun 2020 16:14

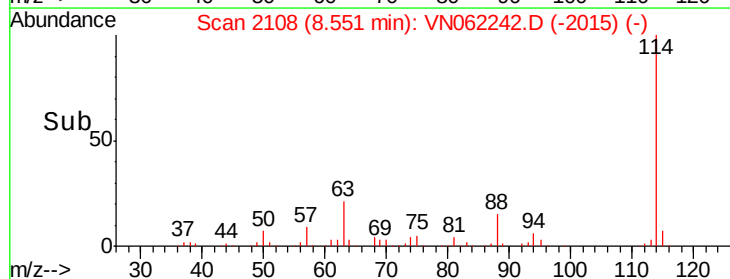
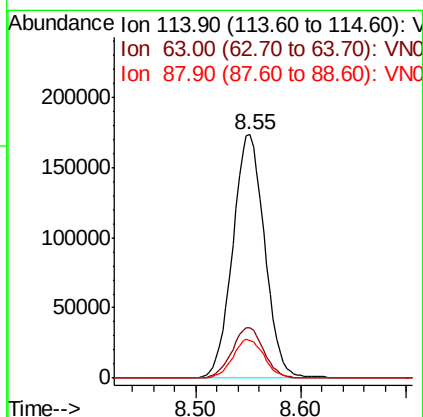
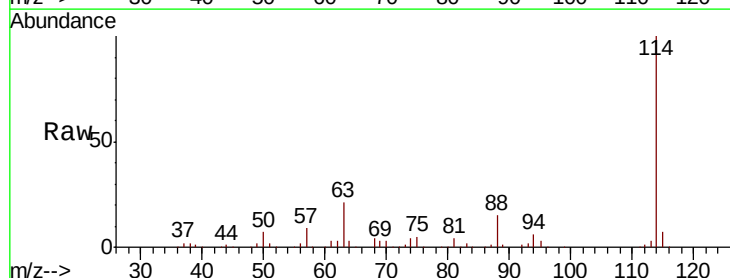
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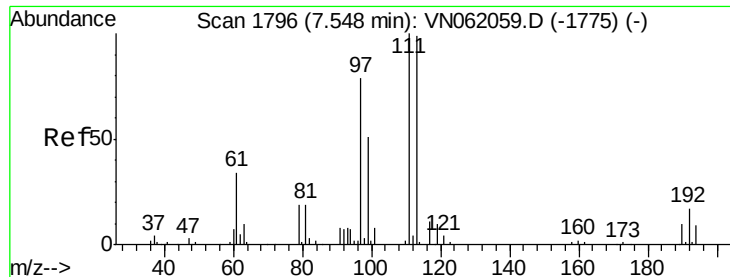
Tot Ion: 65 Resp: 145031
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062242.D
 Acq: 30 Jun 2020 16:14

Tgt Ion: 114 Resp: 364248
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 39.2
 88 15.4 0.0 30.8

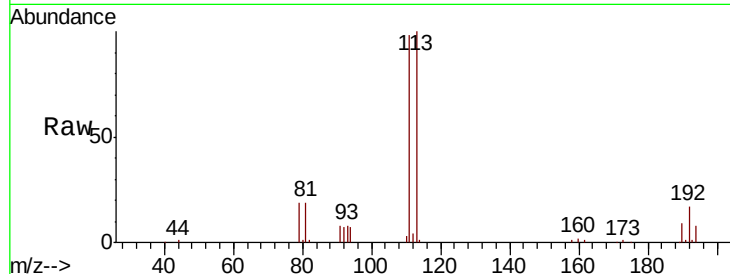




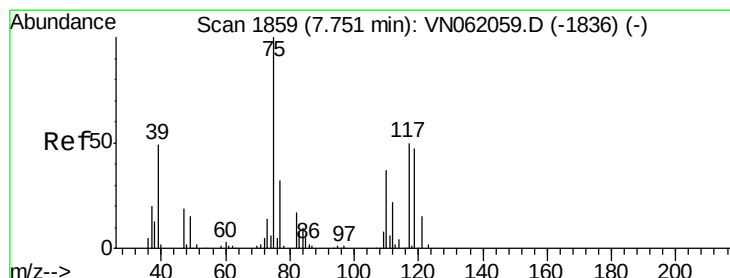
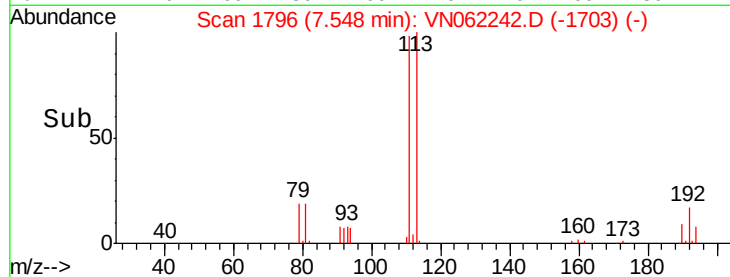
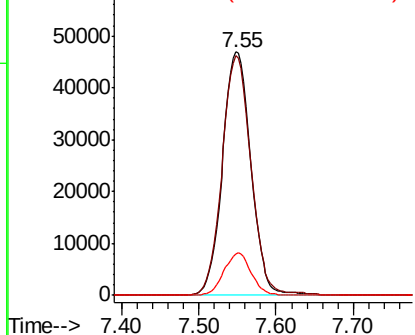
#35
 Dibromofluoromethane
 Concen: 51.283 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062242.D
 Acq: 30 Jun 2020 16:14

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20200625

Tot Ion	Ratio	Lower	Upper
113	100		
111	99.9	82.2	123.4
192	16.5	14.0	21.0

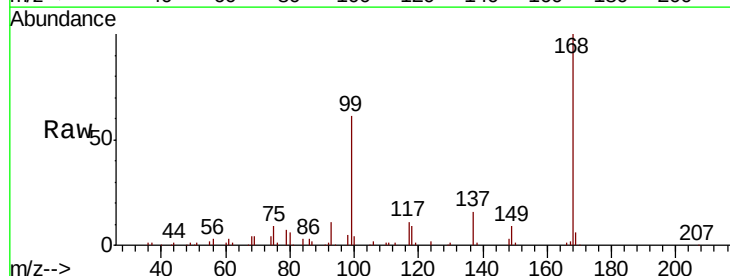


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

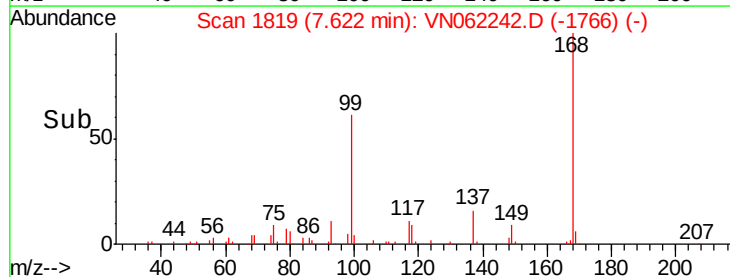
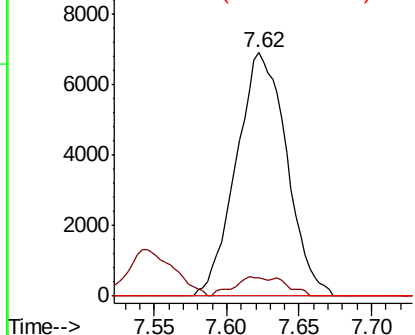


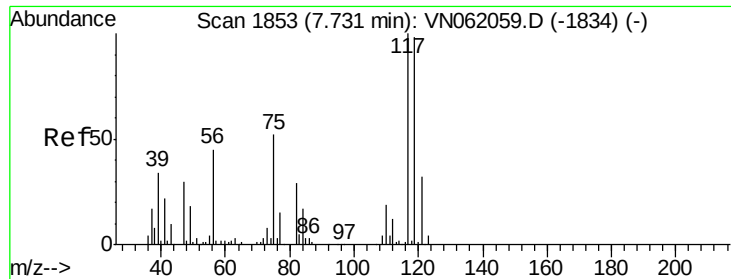
#36
 1,1-Dichloropropene
 Concen: 4.562 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062242.D
 Acq: 30 Jun 2020 16:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.0	17.9	53.8#
77	0.0	24.9	37.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 5.694 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200625

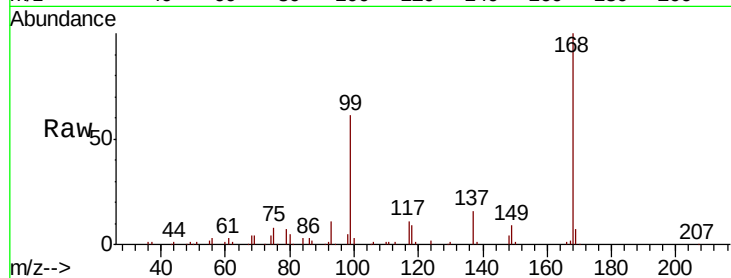
Tot Ion:117 Resp: 19654

Ion Ratio Lower Upper

117 100

119 5.6 78.2 117.2#

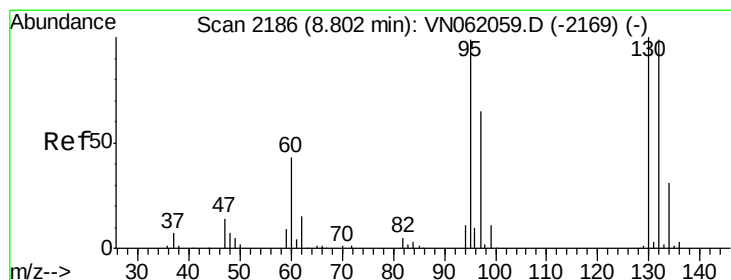
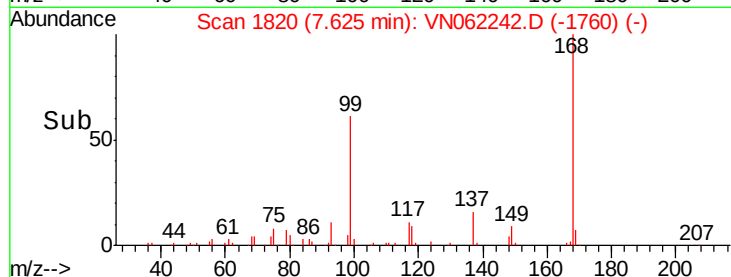
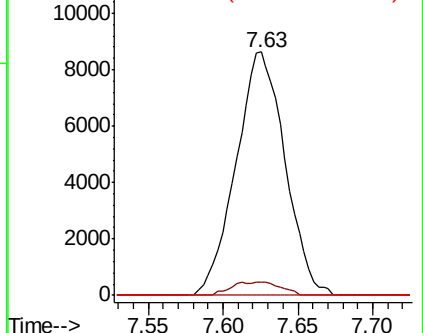
121 0.0 25.8 38.6#



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



#44

Trichloroethene

Concen: 16.024 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN062242.D

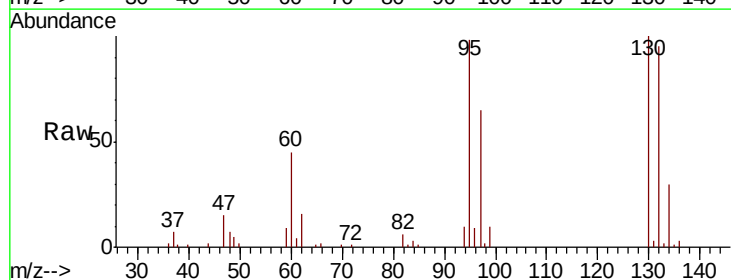
Acq: 30 Jun 2020 16:14

Tgt Ion:130 Resp: 45108

Ion Ratio Lower Upper

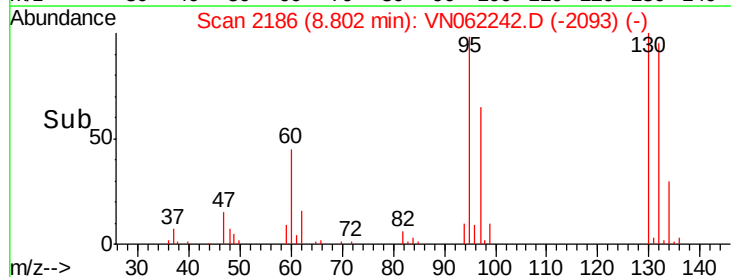
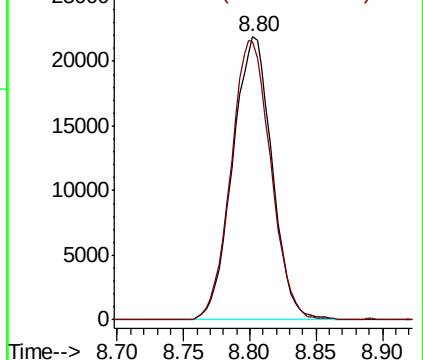
130 100

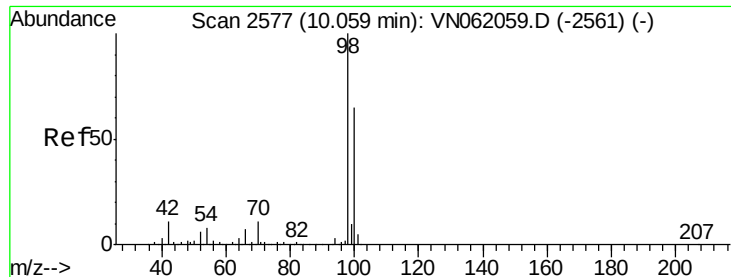
95 98.2 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 49.446 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

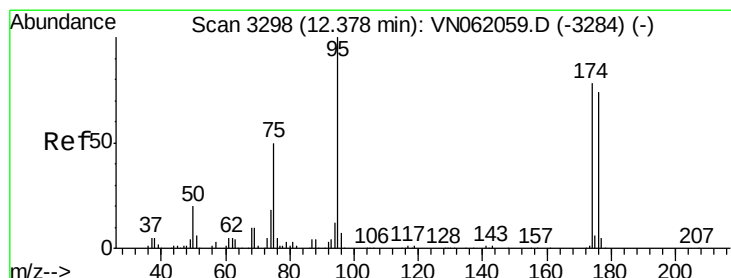
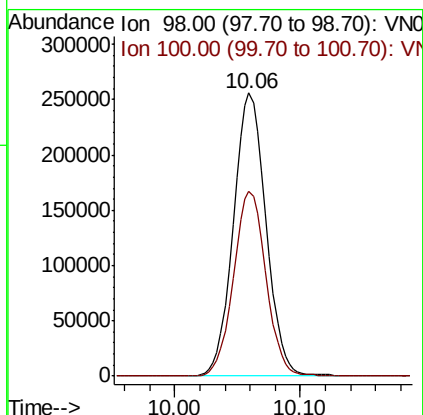
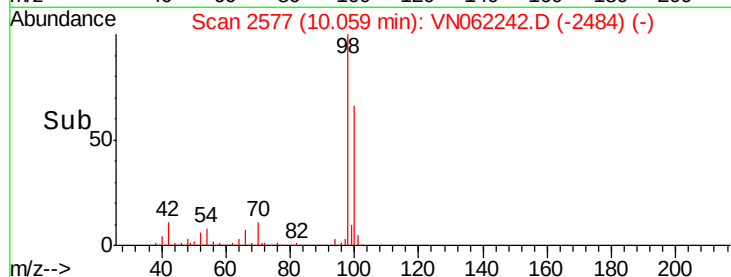
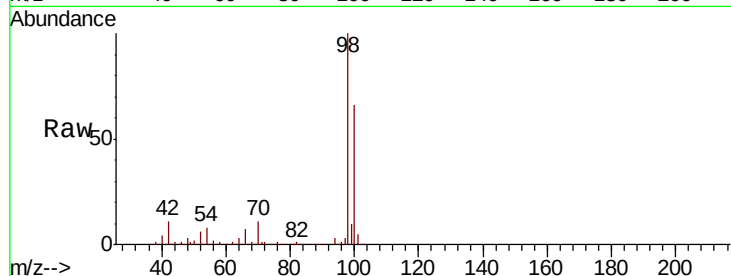
DUP01-20200625

Tot Ion: 98 Resp: 461881

Ion Ratio Lower Upper

98 100

100 65.0 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 45.071 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

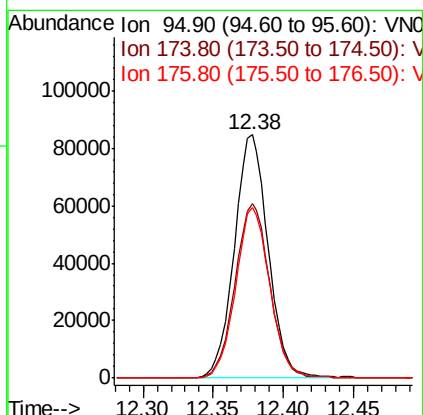
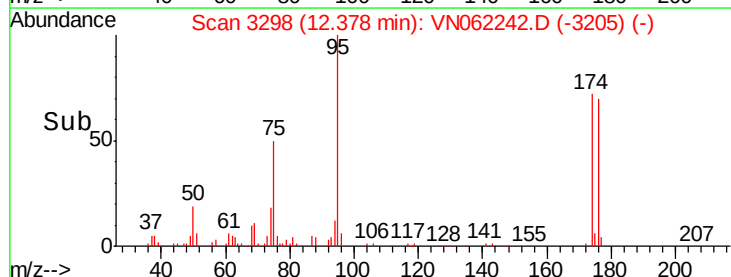
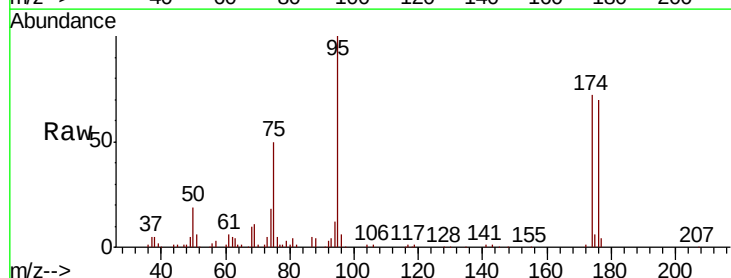
Tgt Ion: 95 Resp: 142243

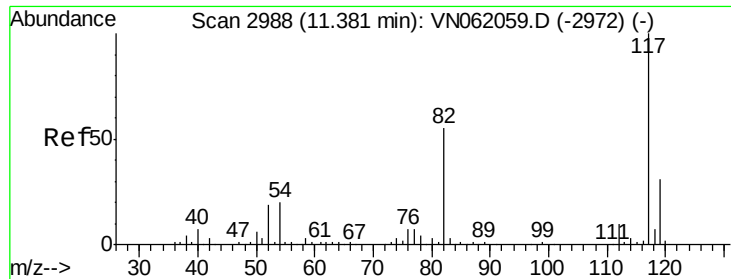
Ion Ratio Lower Upper

95 100

174 73.6 0.0 154.8

176 70.9 0.0 147.4

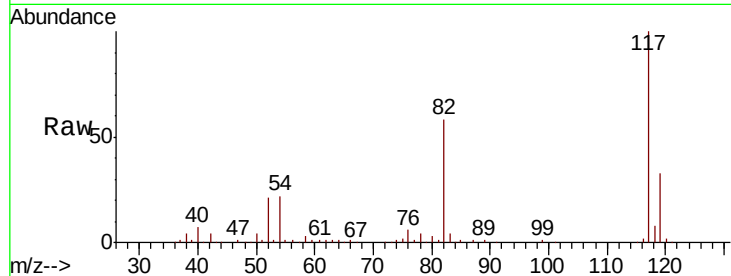




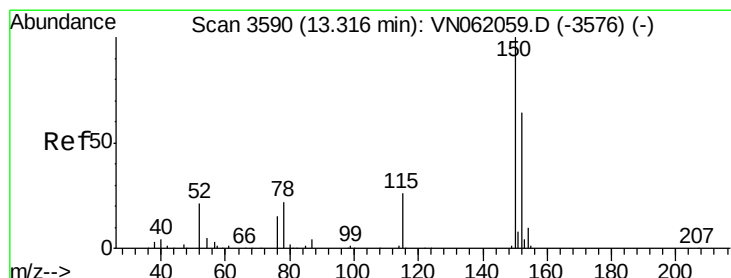
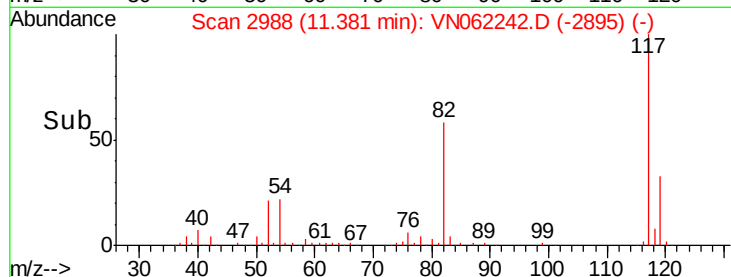
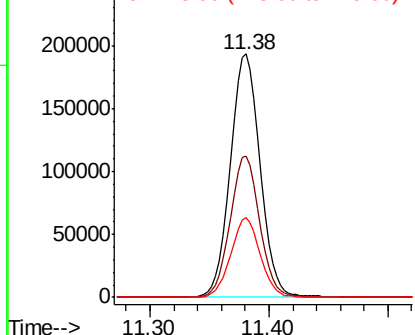
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062242.D
Acq: 30 Jun 2020 16:14

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20200625

Tot Ion:117 Resp: 335929
Ion Ratio Lower Upper
117 100
82 58.3 43.8 65.8
119 32.6 25.2 37.8

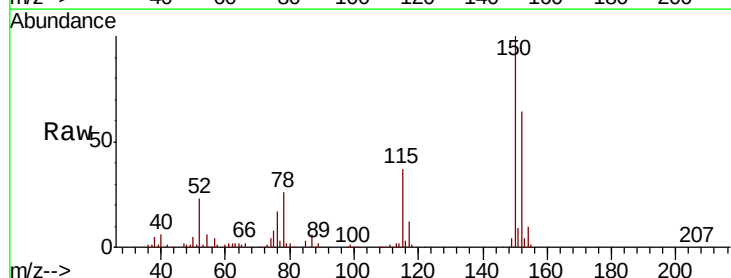


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

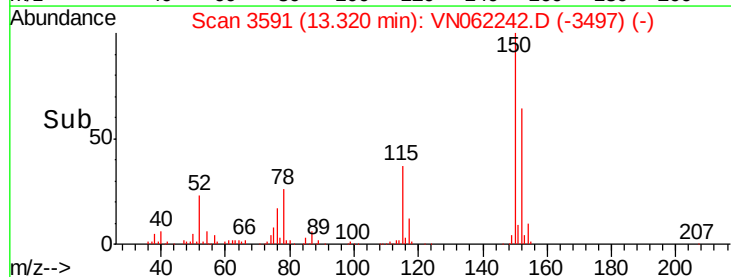
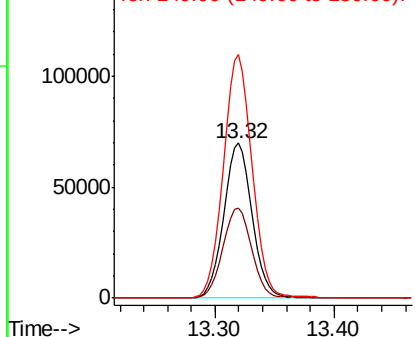


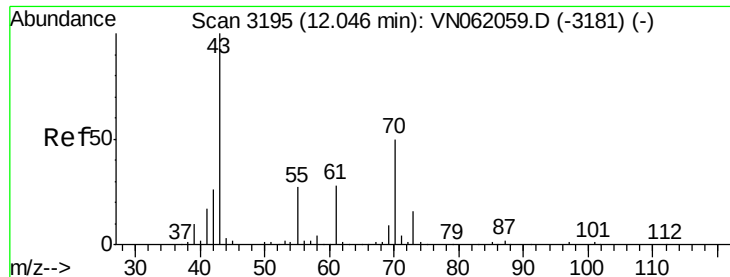
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062242.D
Acq: 30 Jun 2020 16:14

Tgt Ion:152 Resp: 115614
Ion Ratio Lower Upper
152 100
115 59.4 29.5 88.5
150 157.6 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-amvl acetate

Concen: 3.414 ug/l

RT: 12.06 min Scan# 3198

Delta R.T. 0.01 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200625

Tot Ion: 43 Resp: 251

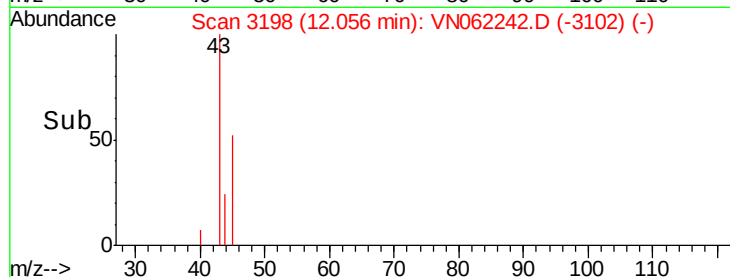
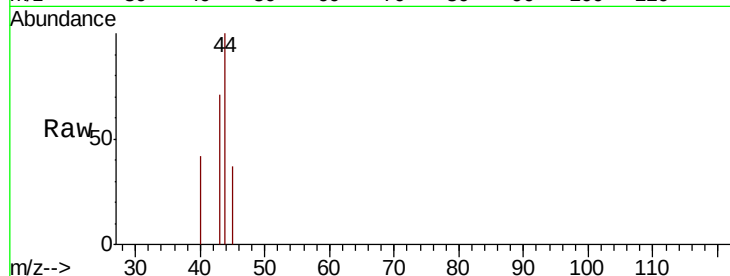
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

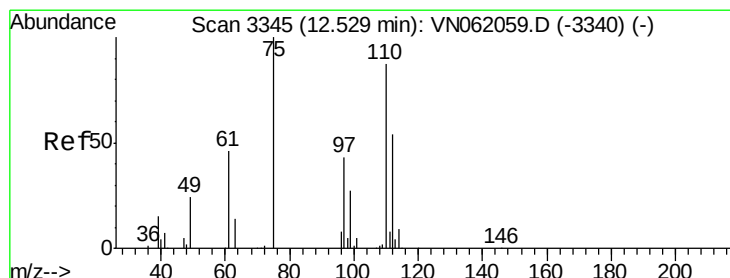
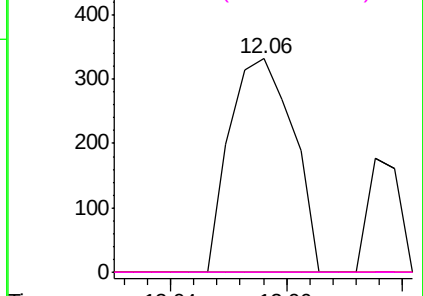


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.815 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062242.D

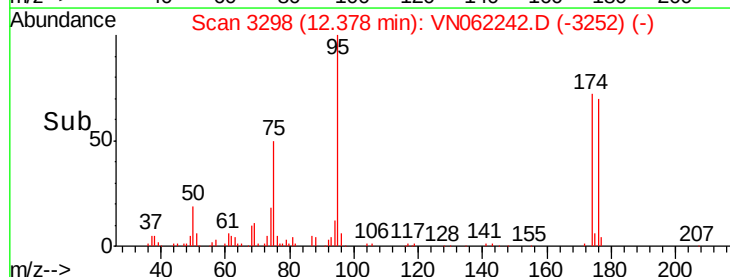
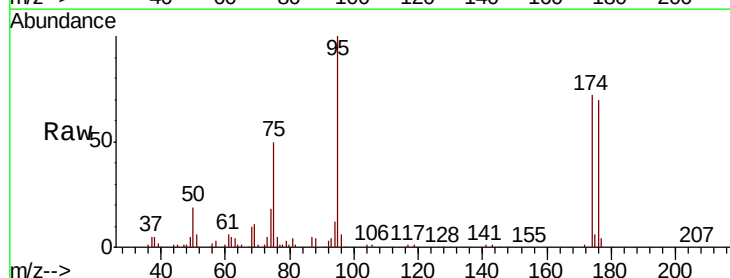
Acq: 30 Jun 2020 16:14

Tgt Ion: 75 Resp: 72981

Ion Ratio Lower Upper

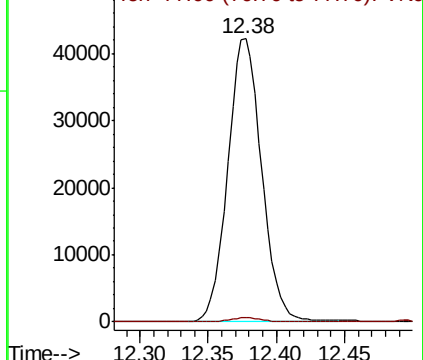
75 100

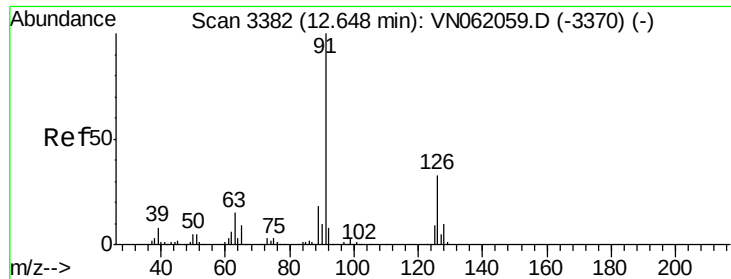
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

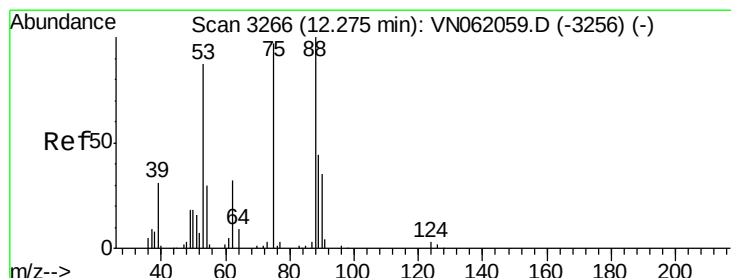
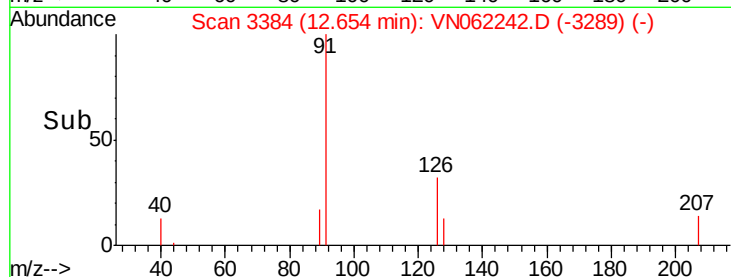
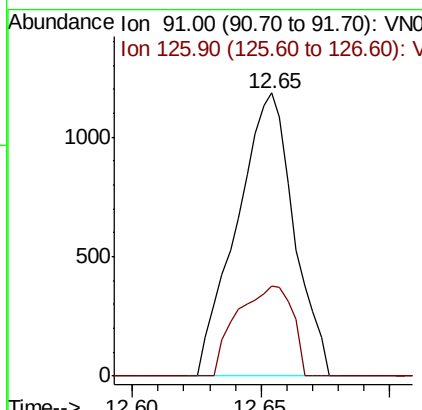
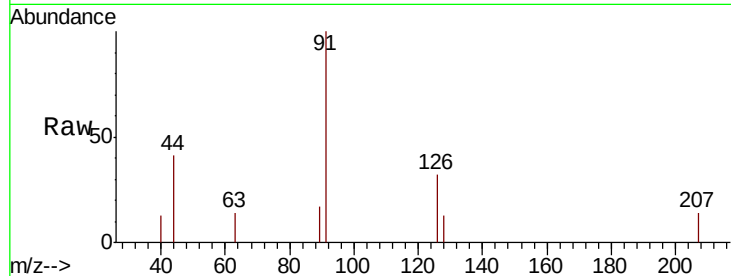




#79
 2-Chlorotoluene
 Concen: 0.296 ug/l
 RT: 12.65 min Scan# 3384
 Delta R.T. 0.01 min
 Lab File: VN062242.D
 Acq: 30 Jun 2020 16:14

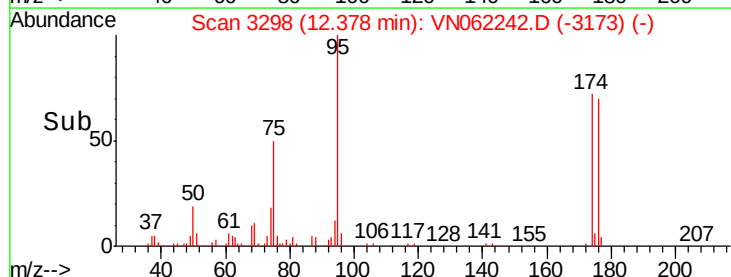
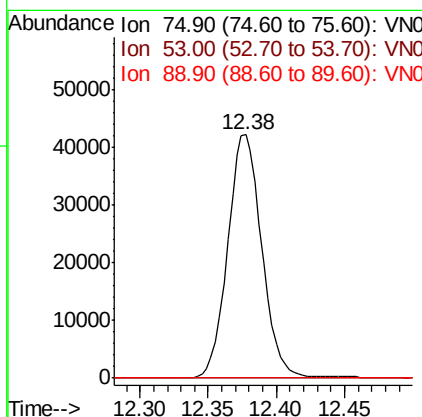
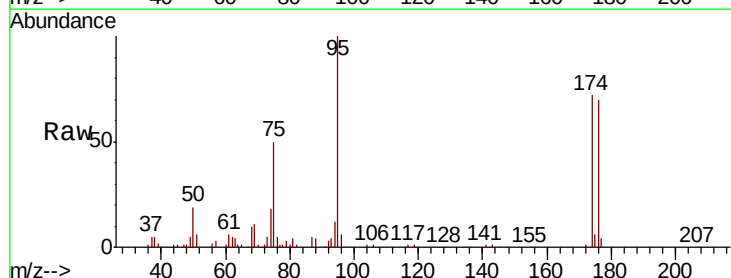
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20200625

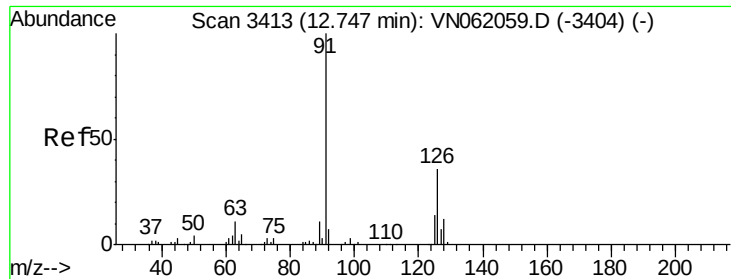
Tot Ion: 91 Resp: 1830
 Ion Ratio Lower Upper
 91 100
 126 30.8 16.9 50.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.310 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062242.D
 Acq: 30 Jun 2020 16:14

Tgt Ion: 75 Resp: 72981
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.0 108.0#
 89 0.0 36.9 55.3#





#82

4-Chlorotoluene

Concen: 0.431 ug/l

RT: 12.75 min Scan# 3414

Delta R.T. 0.00 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

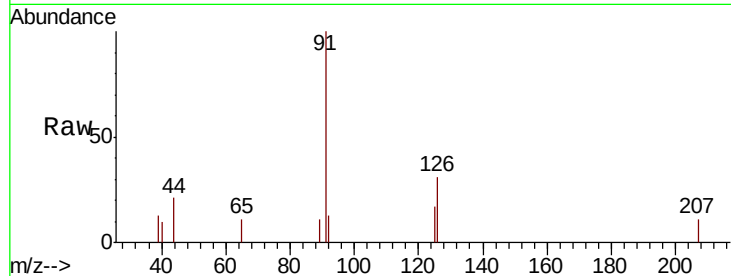
DUP01-20200625

Tot Ion: 91 Resp: 2760

Ion Ratio Lower Upper

91 100

126 21.3 16.7 50.1



Abundance Ion 91.00 (90.70 to 91.70): VN062059.D (-3404) (-)

Ion 125.90 (125.60 to 126.60): VN062059.D (-3404) (-)

12.75

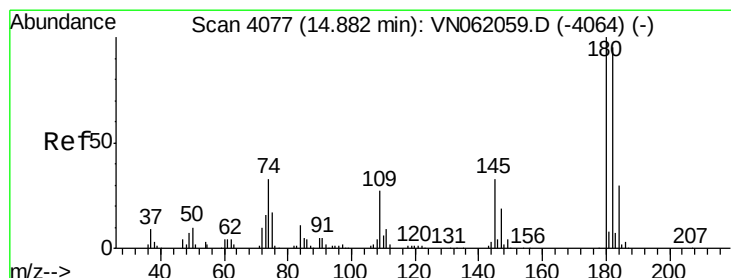
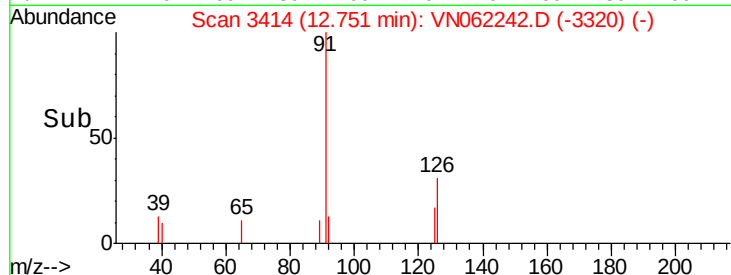
1500

1000

500

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.452 ug/l

RT: 14.89 min Scan# 4080

Delta R.T. 0.01 min

Lab File: VN062242.D

Acq: 30 Jun 2020 16:14

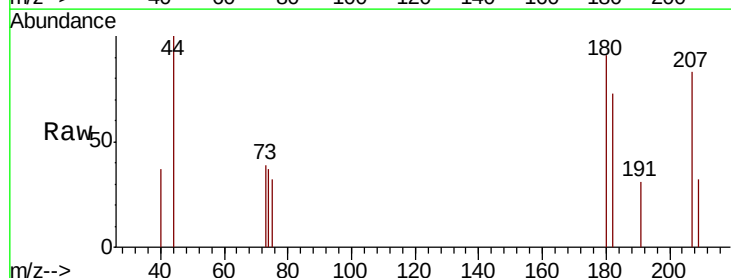
Tgt Ion: 180 Resp: 747

Ion Ratio Lower Upper

180 100

182 91.2 48.0 144.2

145 0.0 16.0 48.0#



Abundance Ion 179.80 (179.50 to 180.50): VN062059.D (-4064) (-)

Ion 181.80 (181.50 to 182.50): VN062059.D (-4064) (-)

Ion 144.80 (144.50 to 145.50): VN062059.D (-4064) (-)

14.89

600

500

400

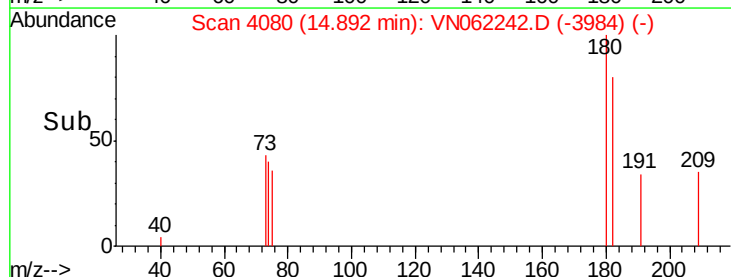
300

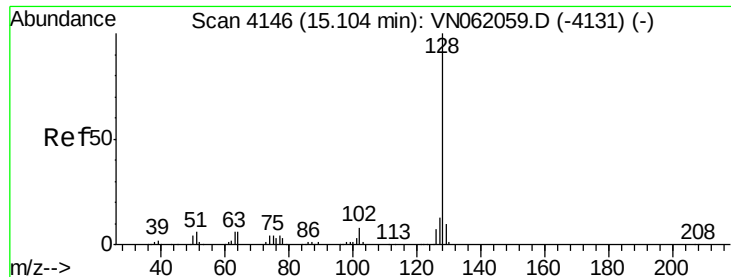
200

100

0

Time-->

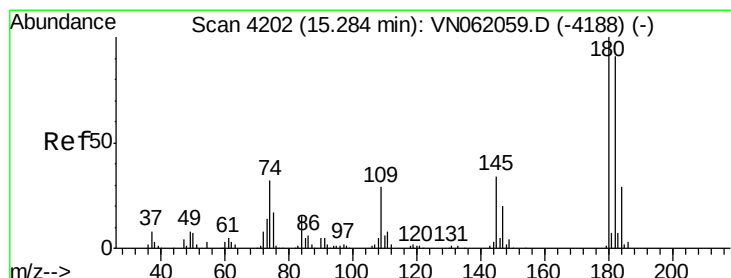
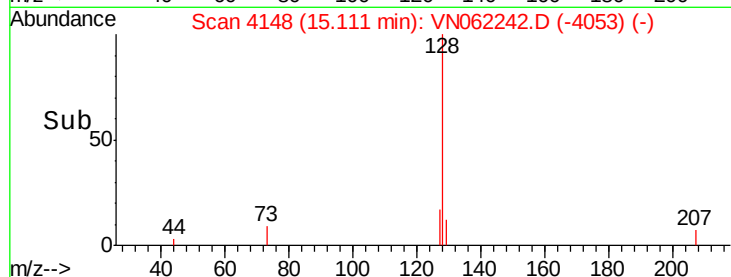
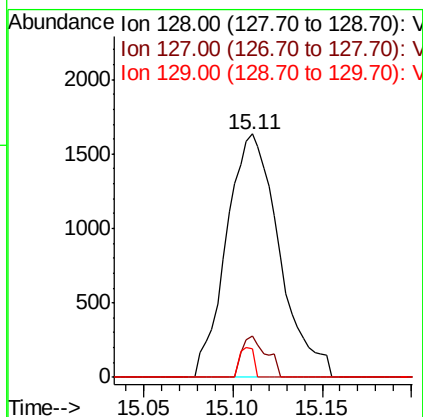
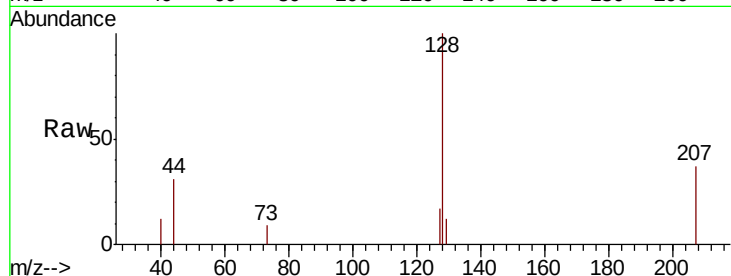




#95
Naphthalene
Concen: 4.557 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. 0.01 min
Lab File: VN062242.D
Acq: 30 Jun 2020 16:14

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20200625

Tot Ion:128 Resp: 3369
Ion Ratio Lower Upper
128 100
127 7.8 10.5 15.7#
129 3.2 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.475 ug/l
RT: 15.29 min Scan# 4204
Delta R.T. 0.01 min
Lab File: VN062242.D
Acq: 30 Jun 2020 16:14

Tgt Ion:180 Resp: 803
Ion Ratio Lower Upper
180 100
182 100.2 46.8 140.4
145 37.4 16.4 49.2

