

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037207.D
 Acq On : 17 Jun 2021 18:39
 Operator : SY/AP
 Sample : M2742-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

MMDadoda
 6/21/2021 12:58:24 PM

Quant Time: Jun 19 17:23:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 17 17:23:38 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1451913	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4164211	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3723954	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	2828243	10.02	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	76496	0.303	ppbv	92
4) Chloromethane	3.14	50	82076	0.872	ppbv	100
9) Propene	3.02	41	73618	0.816	ppbv #	74
11) Trichlorofluoromethane	3.96	101	57044	0.212	ppbv	98
13) Ethanol	3.61	45	1230606	88.127	ppbv	48
15) Acetone	3.85	43	1221088	7.458	ppbv	96
19) Isopropyl Alcohol	3.98	45	456947	4.608	ppbv #	96
20) Methylene Chloride	4.35	84	1775739	18.116	ppbv	98
26) Hexane	5.69	57	1947304	10.870	ppbv #	47
29) Chloroform	5.76	83	87129m	0.315	ppbv	
30) Cyclohexane	7.18	84	20382m	0.137	ppbv	
34) 2-Butanone	5.26	43	100957	0.623	ppbv	96
35) Carbon Tetrachloride	7.02	117	19803m	0.071	ppbv	
36) Benzene	6.90	78	34260	0.102	ppbv #	81
44) 2,2,4-Trimethylpentane	7.87	57	88061	0.155	ppbv #	79
52) Tetrachloroethene	11.22	164	8884m	0.057	ppbv	
53) Toluene	9.81	91	198080	0.492	ppbv	99
59) m/p-Xylene	12.97	91	149412m	0.344	ppbv	
60) o-Xylene	13.70	91	51209	0.124	ppbv	97
69) p-Isopropyltoluene	17.65	119	125214m	0.213	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	83923	0.179	ppbv #	70
76) 1,4-Dichlorobenzene	17.14	146	29229m	0.103	ppbv	

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

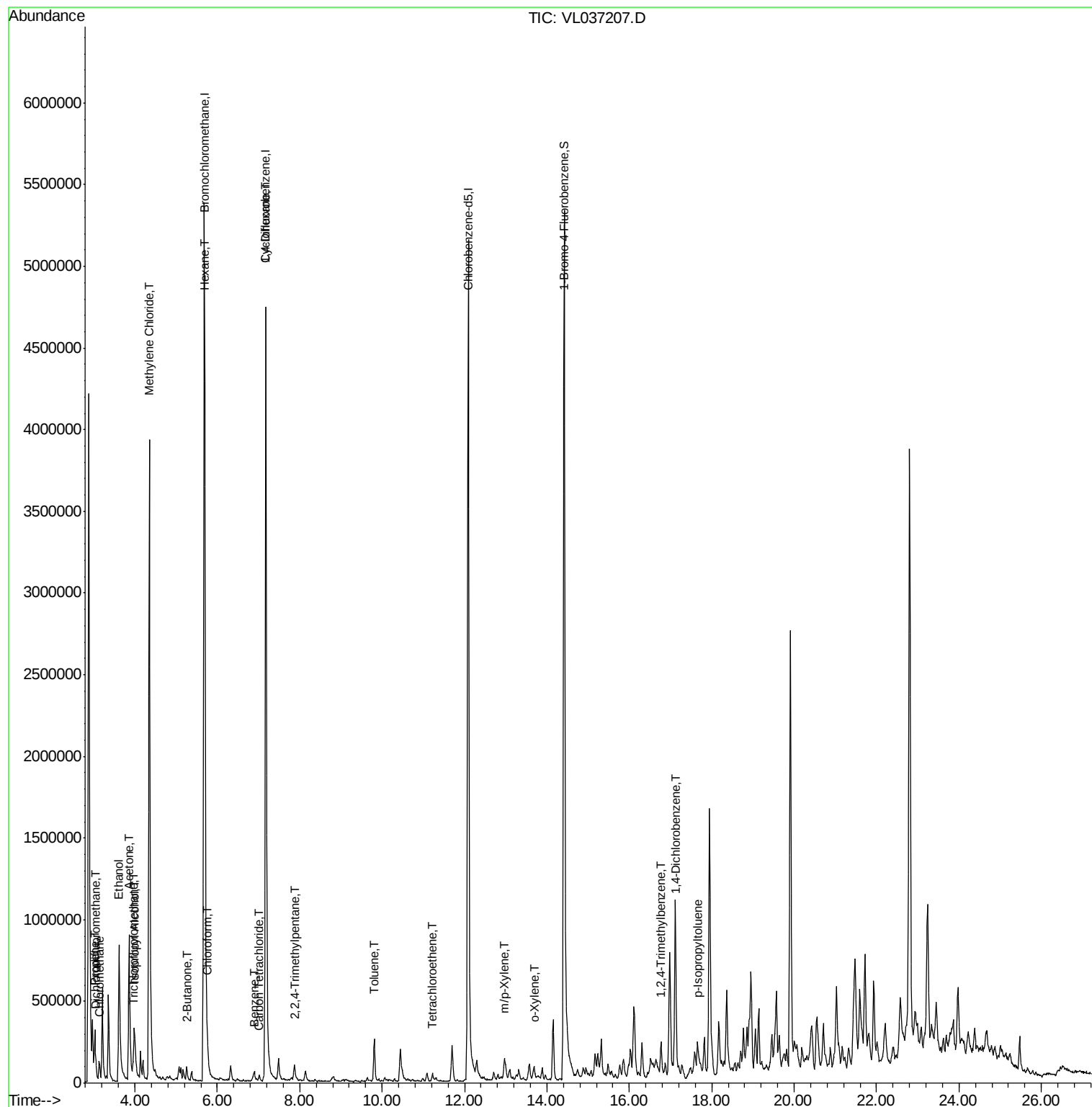
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061721\
Data File : VL037207.D
Acq On : 17 Jun 2021 18:39
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

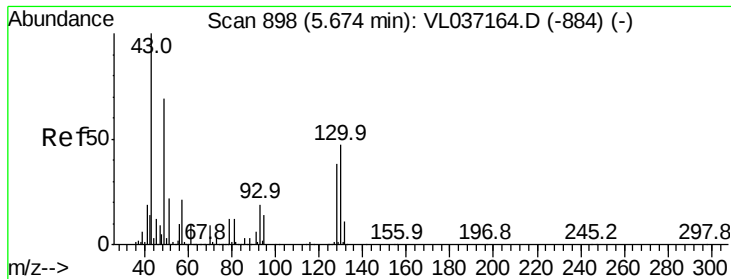
Instrument :
MSVOA_L
ClientSampleId :
IA2

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Quant Time: Jun 19 17:23:38 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 49 Resp: 1451913

Ion Ratio Lower Upper

49 100

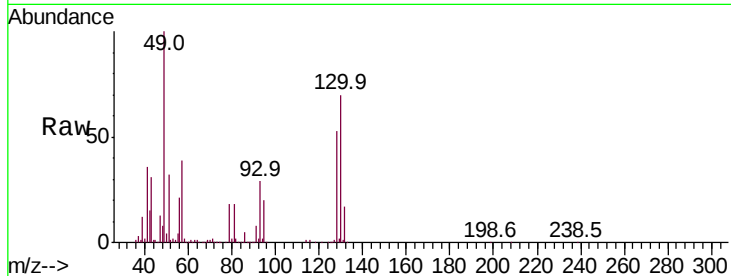
128 54.9 29.3 88.0

130 71.1 35.9 107.8

Manual Integrations
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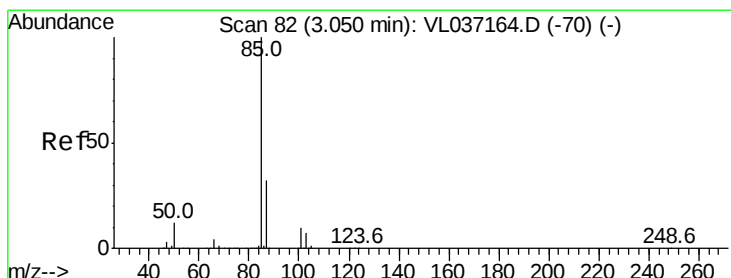
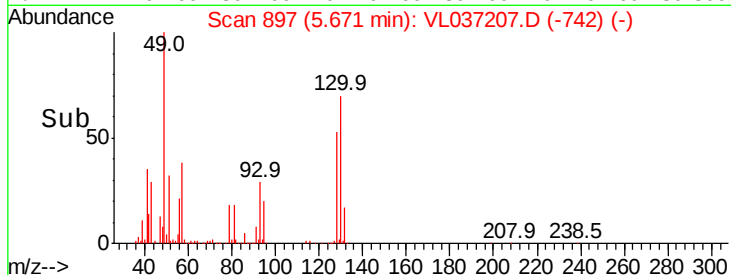
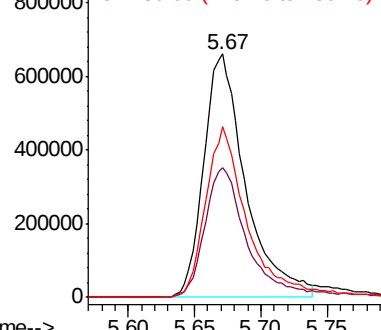
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.303 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037207.D

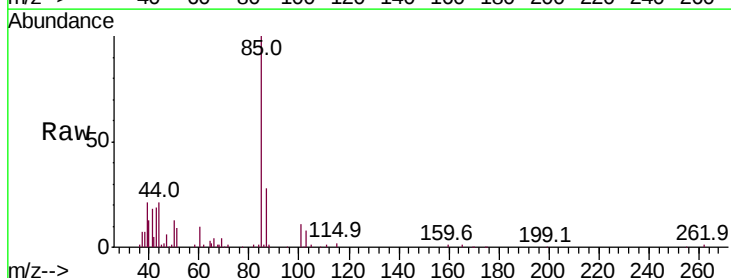
Acq: 17 Jun 2021 18:39

Tgt Ion: 85 Resp: 76496

Ion Ratio Lower Upper

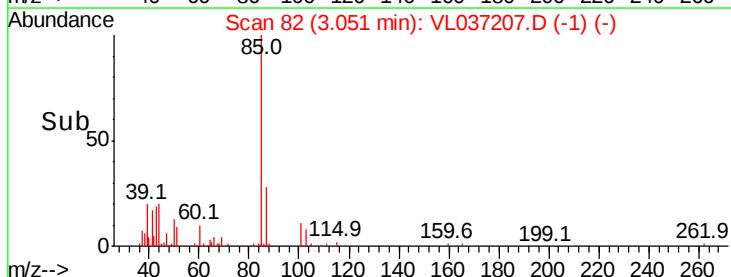
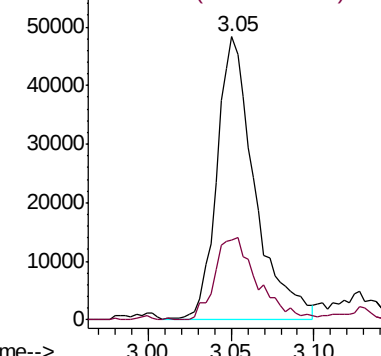
85 100

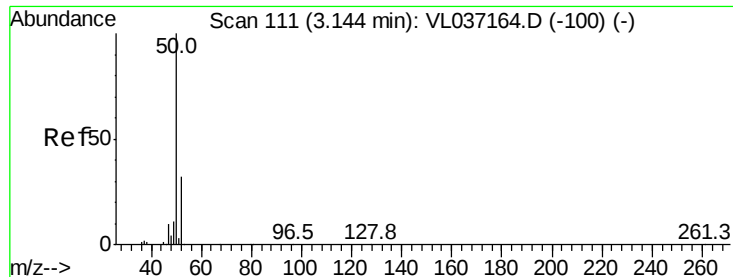
87 27.6 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.872 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 50 Resp: 82076

Ion Ratio Lower Upper

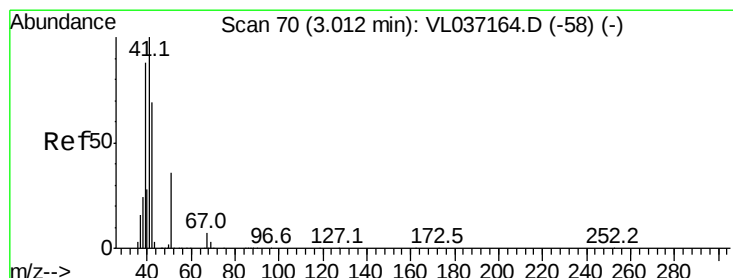
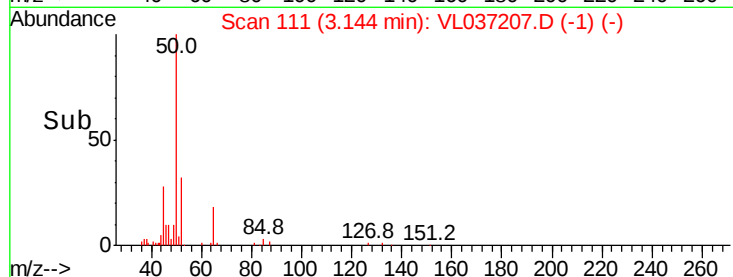
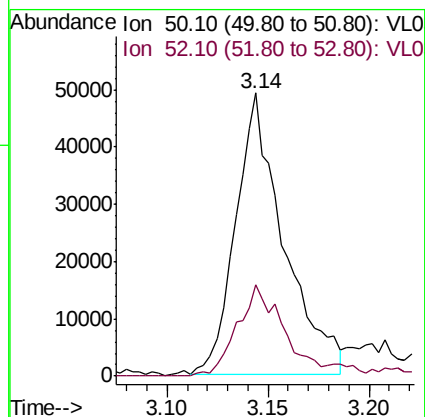
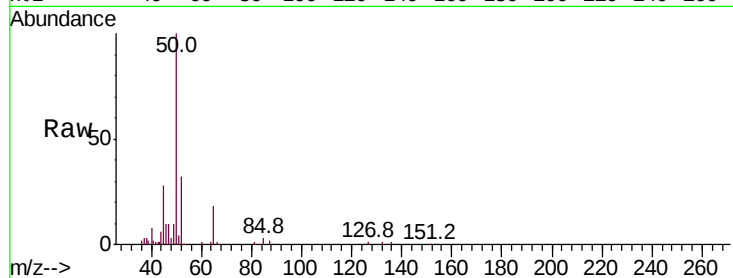
50 100

52 32.4 25.8 38.8

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#9

Propene

Concen: 0.816 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL037207.D

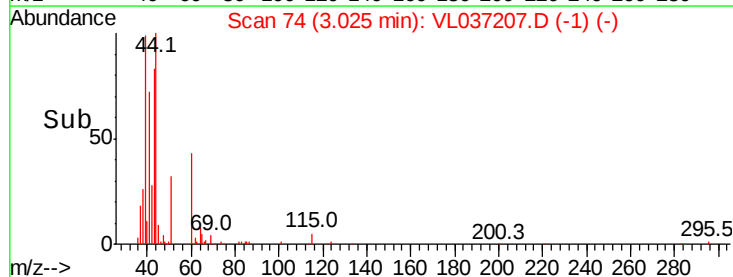
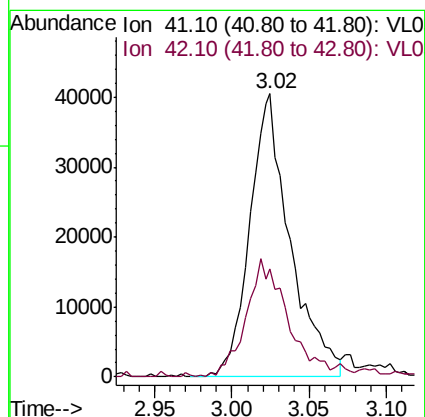
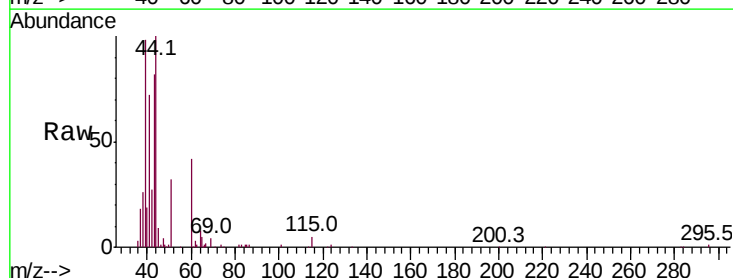
Acq: 17 Jun 2021 18:39

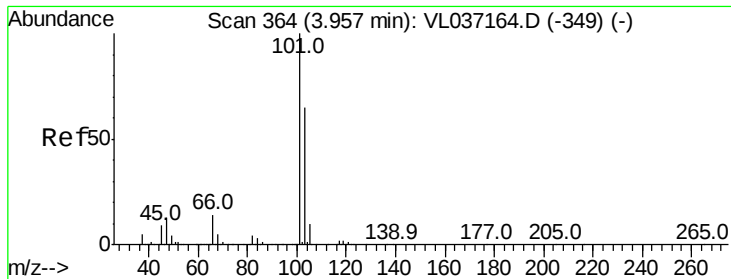
Tgt Ion: 41 Resp: 73618

Ion Ratio Lower Upper

41 100

42 47.0 54.5 81.7#





#11

Trichlorofluoromethane

Concen: 0.212 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion:101 Resp: 57044

Ion Ratio Lower Upper

101 100

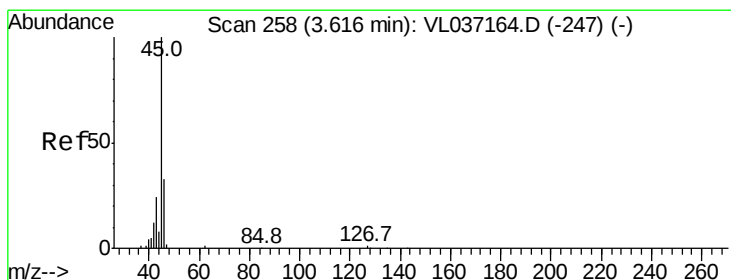
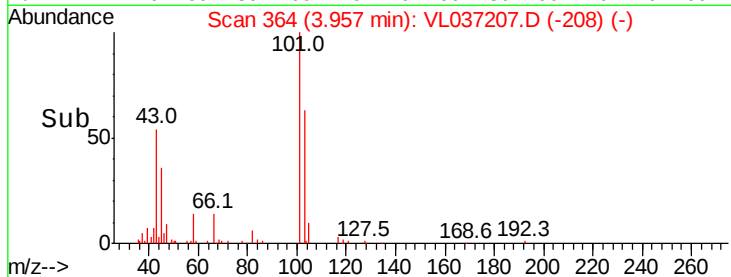
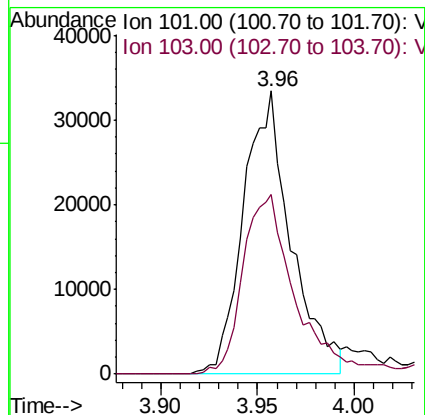
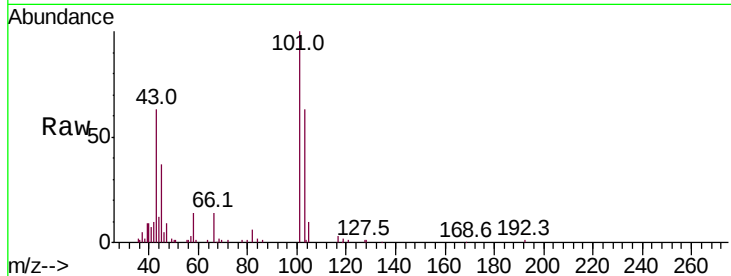
103 63.4 52.2 78.4

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#13

Ethanol

Concen: 88.127 ppbv

RT: 3.61 min Scan# 257

Delta R.T. -0.00 min

Lab File: VL037207.D

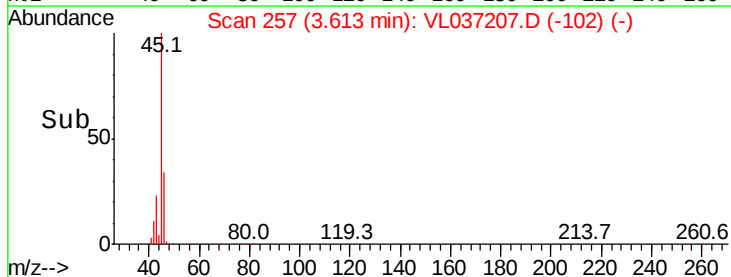
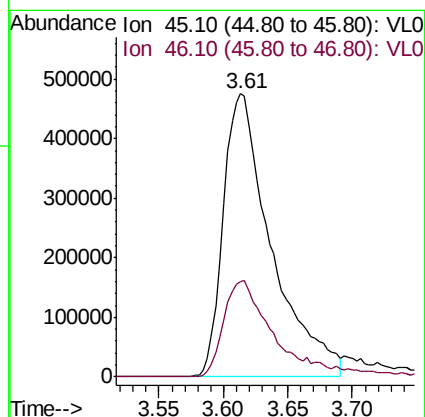
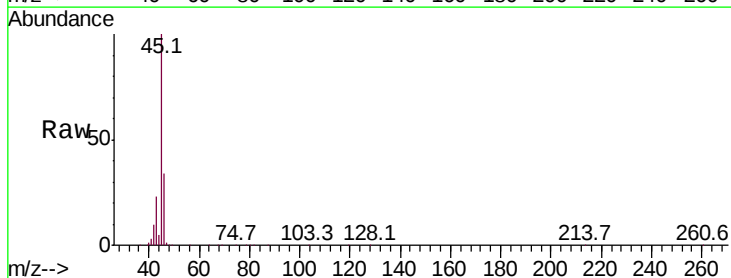
Acq: 17 Jun 2021 18:39

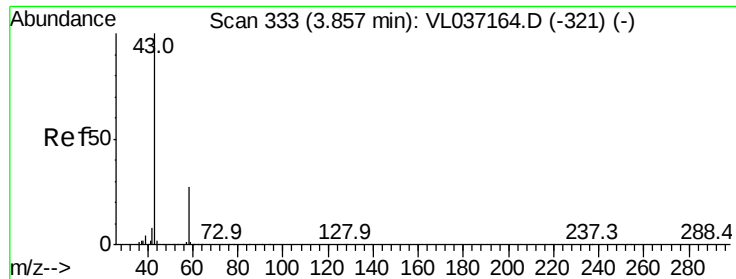
Tgt Ion: 45 Resp: 1230606

Ion Ratio Lower Upper

45 100

46 38.0 34.2 137.0





#15

Acetone

Concen: 7.458 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 43 Resp: 1221088

Ion Ratio Lower Upper

43 100

58 27.3

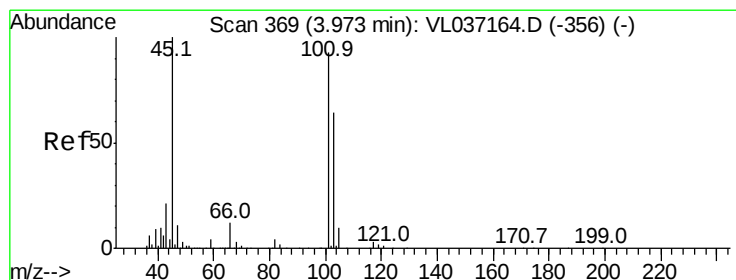
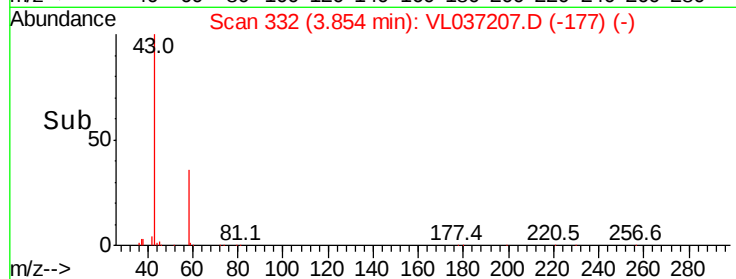
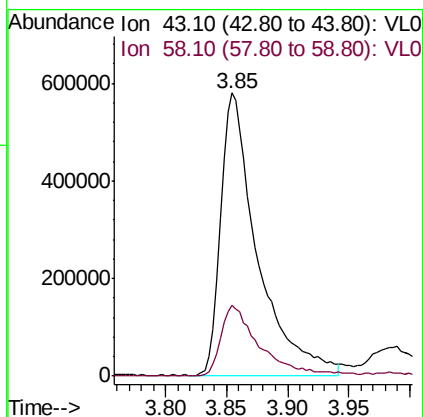
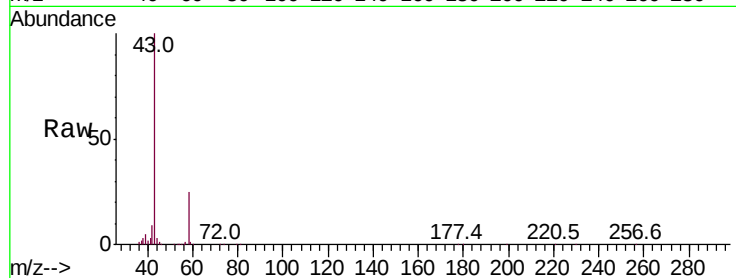
23.7

35.5

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#19

Isopropyl Alcohol

Concen: 4.608 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Tgt Ion: 45 Resp: 456947

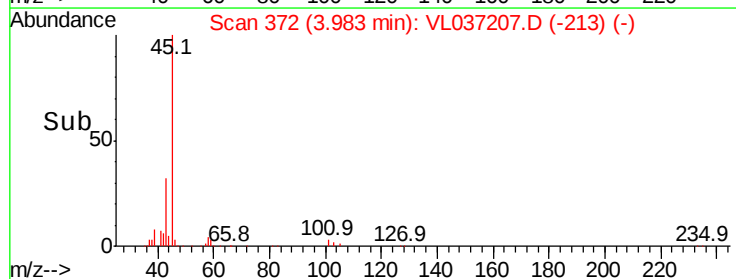
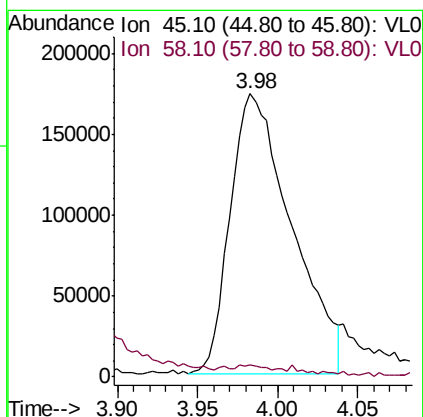
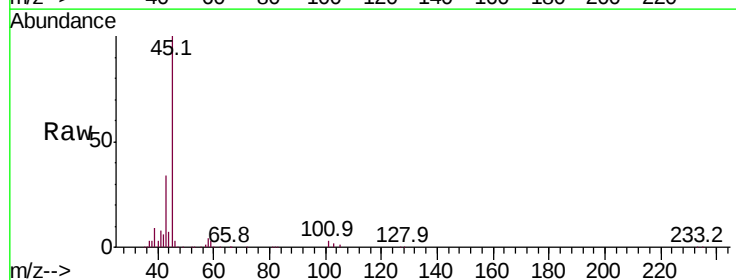
Ion Ratio Lower Upper

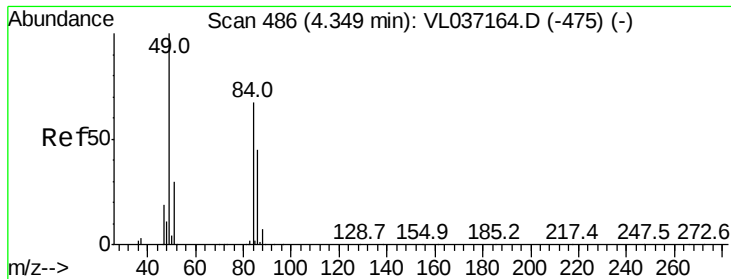
45 100

58 4.4

2.4

3.6#





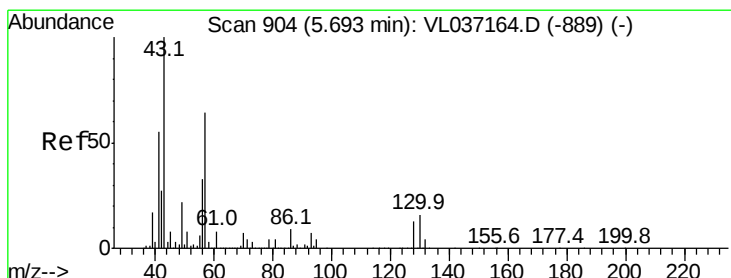
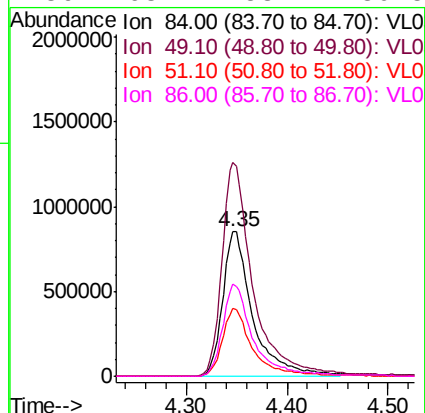
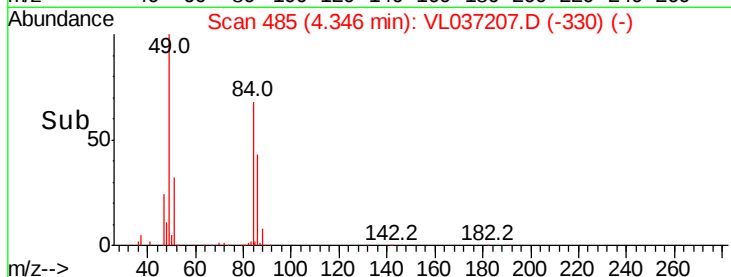
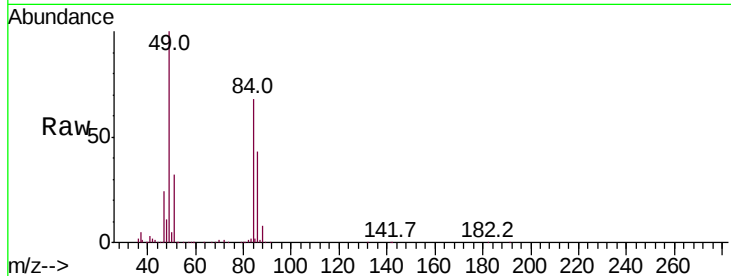
#20
Methvlene Chloride
Concen: 18.116 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.00 min
Lab File: VL037207.D
Acq: 17 Jun 2021 18:39

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion:	84	Resp:	1775739
Ion	Ratio	Lower	Upper
84	100		
49	147.9	119.7	179.5
51	47.2	36.1	54.1
86	63.7	53.7	80.5

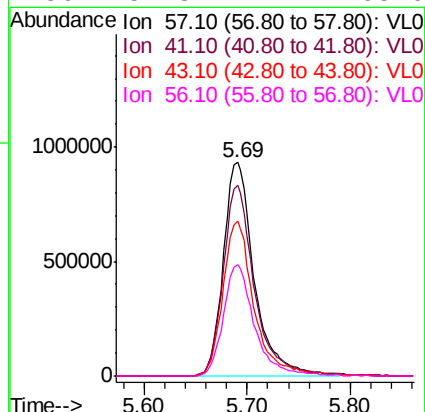
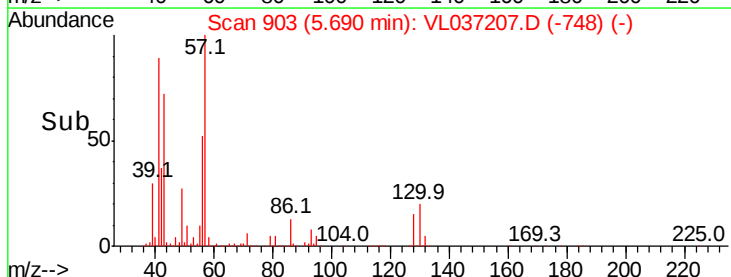
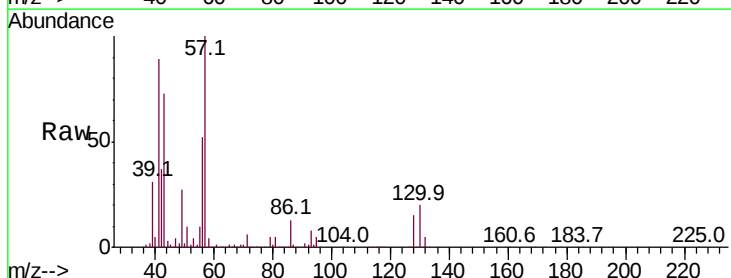
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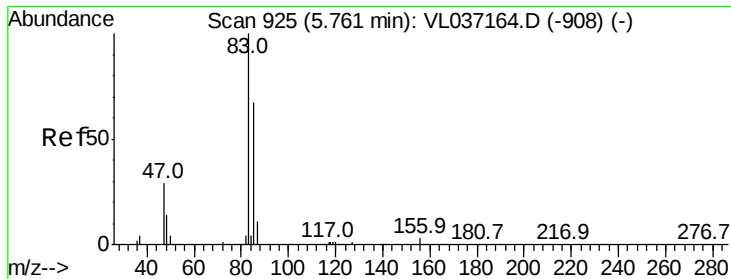
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#26
Hexane
Concen: 10.870 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL037207.D
Acq: 17 Jun 2021 18:39

Tgt Ion:	57	Resp:	1947304
Ion	Ratio	Lower	Upper
57	100		
41	91.2	73.5	110.3
43	73.8	170.7	256.1#
56	52.8	42.4	63.6





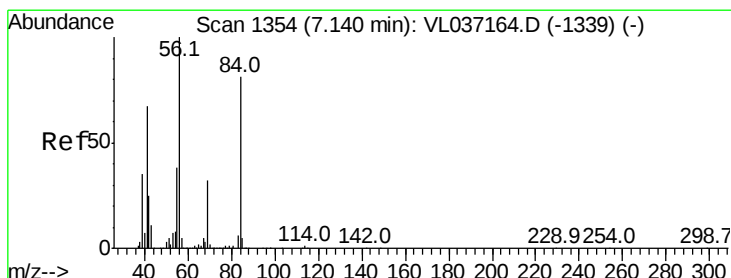
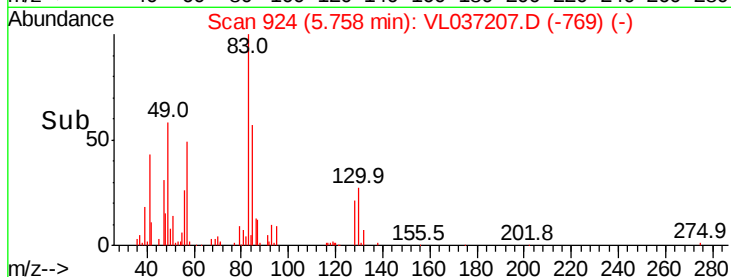
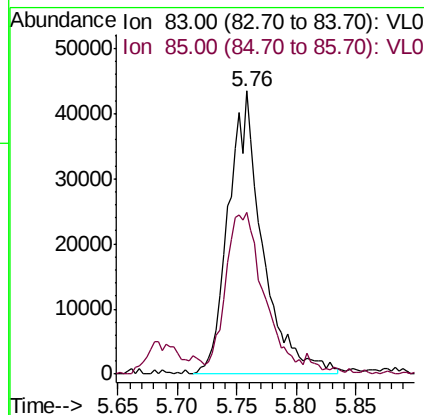
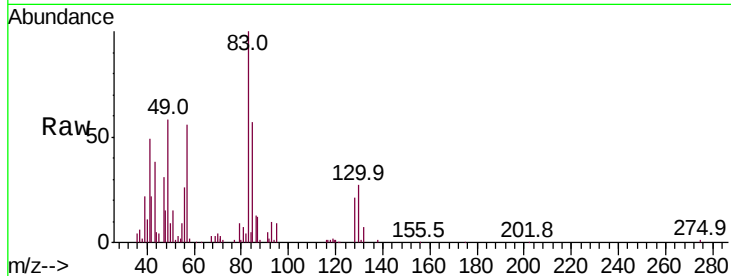
#29
Chloroform
Concen: 0.315 ppbv m
RT: 5.76 min Scan# 924
Delta R.T. -0.00 min
Lab File: VL037207.D
Acq: 17 Jun 2021 18:39

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion: 83 Resp: 87129
Ion Ratio Lower Upper
83 100
85 57.2 53.6 80.4

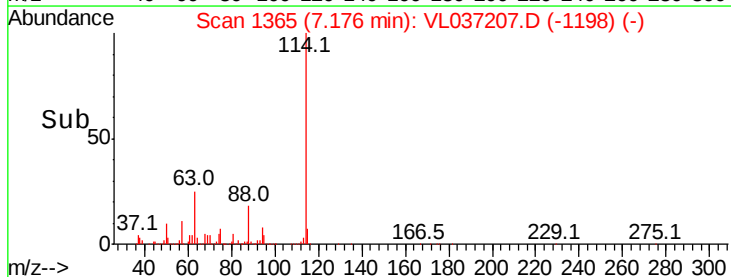
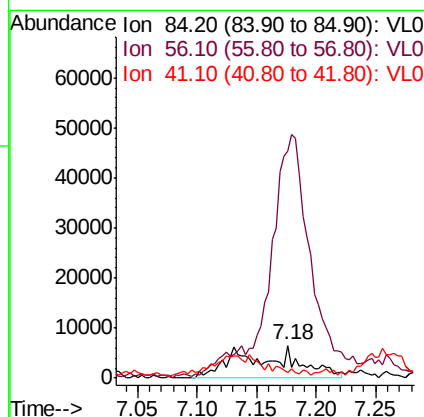
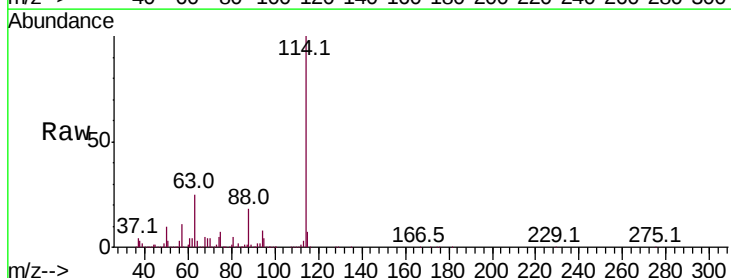
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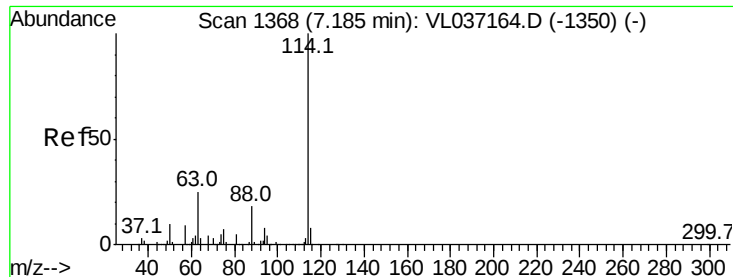
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#30
Cyclohexane
Concen: 0.137 ppbv m
RT: 7.18 min Scan# 1365
Delta R.T. 0.04 min
Lab File: VL037207.D
Acq: 17 Jun 2021 18:39

Tgt Ion: 84 Resp: 20382
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 66.8 69.0 103.6#





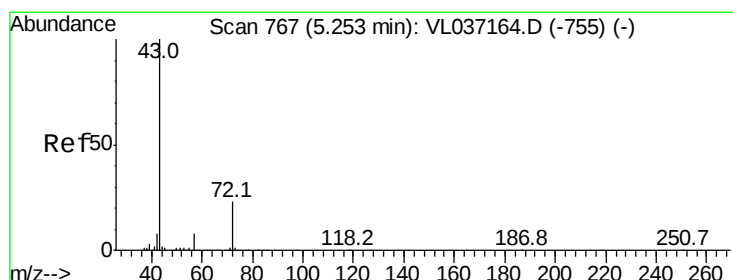
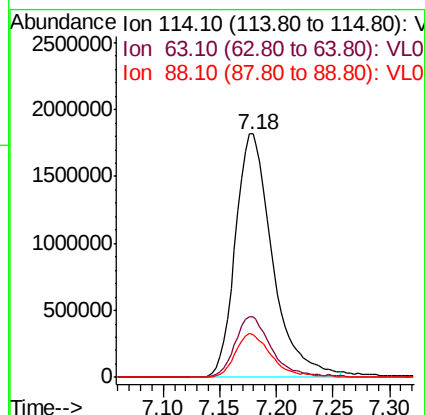
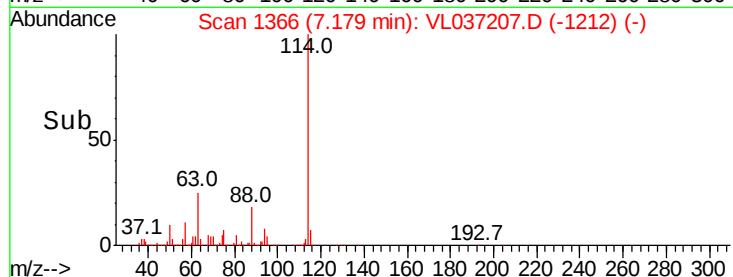
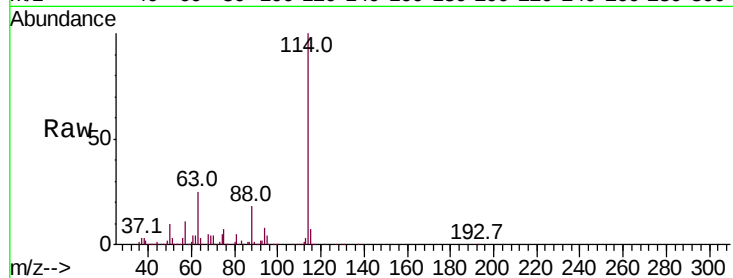
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL037207.D
 Acq: 17 Jun 2021 18:39

Instrument :
 MSVOA_L
 ClientSampled :
 IA2

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.0	19.6	29.4
88	17.9	14.2	21.2

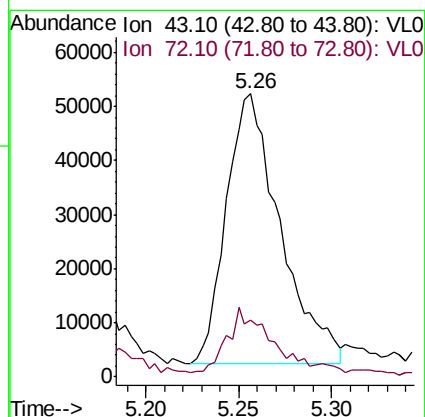
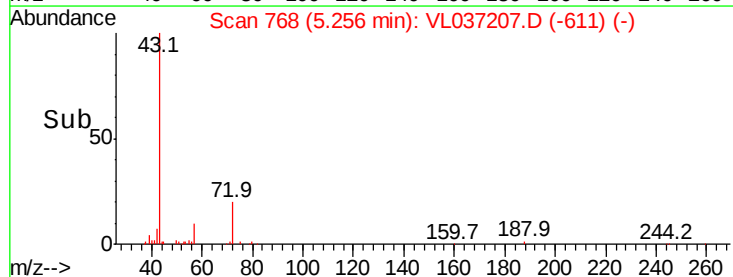
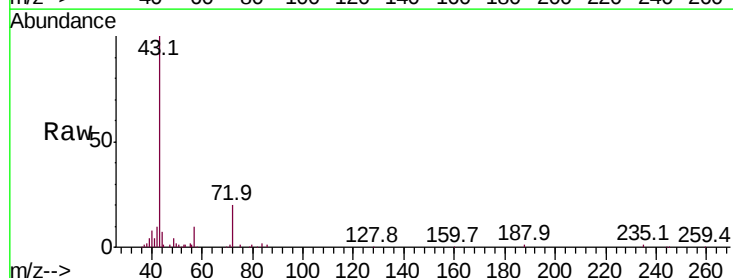
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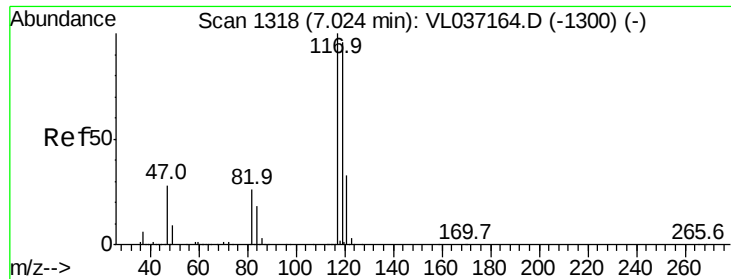
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#34
 2-Butanone
 Concen: 0.623 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.00 min
 Lab File: VL037207.D
 Acq: 17 Jun 2021 18:39

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.7	18.9	28.3





#35

Carbon Tetrachloride

Concen: 0.071 ppbv m

RT: 7.02 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Instrument :

MSVOA_L

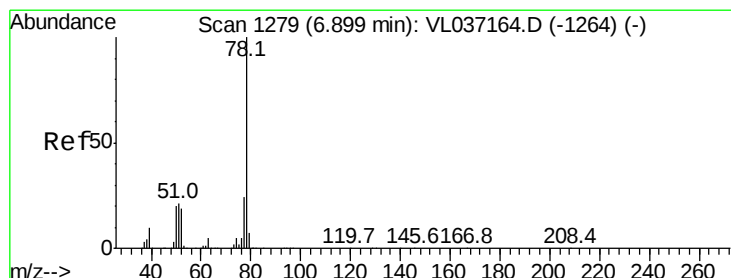
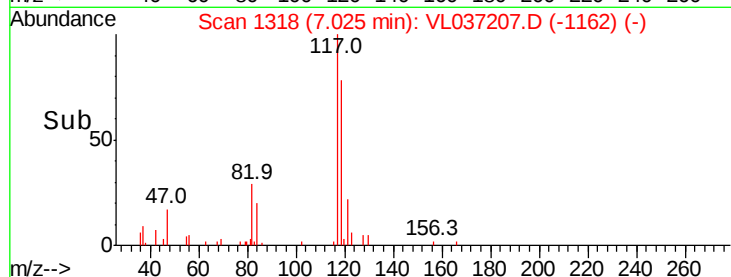
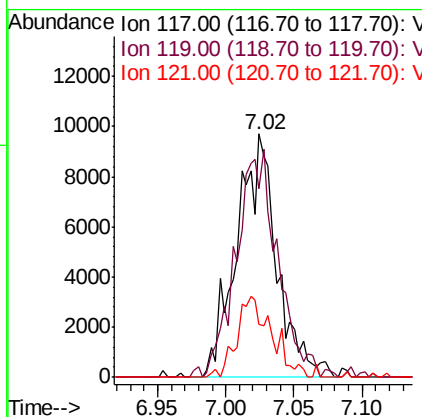
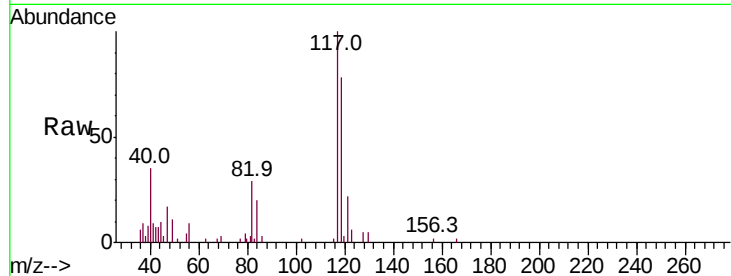
ClientSampled :

IA2

Tot Ion	Ratio	Lower	Upper
117	100		
119	77.6	76.6	114.8
121	22.0	26.4	39.6#

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#36

Benzene

Concen: 0.102 ppbv

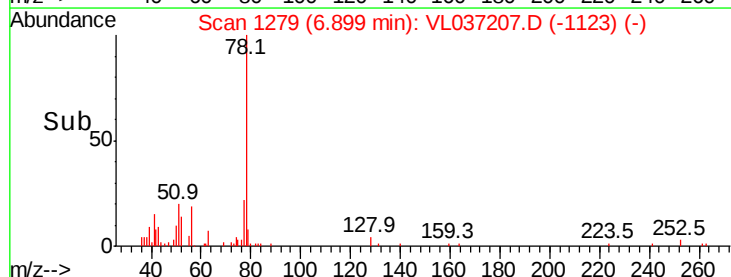
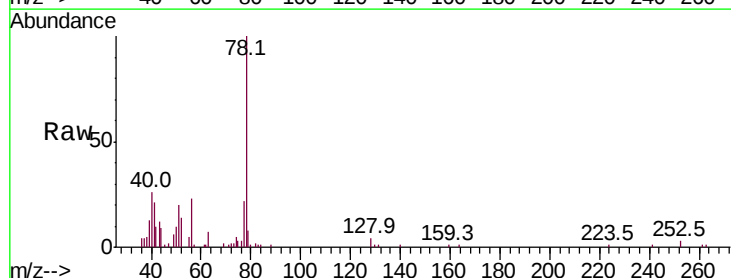
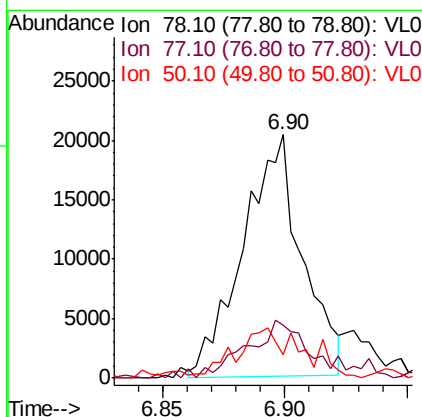
RT: 6.90 min Scan# 1279

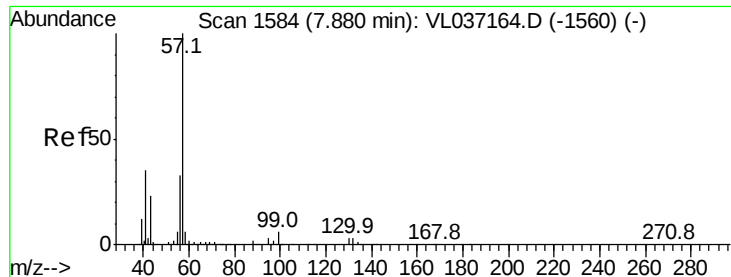
Delta R.T. 0.00 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.3	19.0	28.6#
50	6.4	15.7	23.5#





#44

2,2,4-Trimethylpentane

Concen: 0.155 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. -0.01 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 57 Resp: 88061

Ion Ratio Lower Upper

57 100

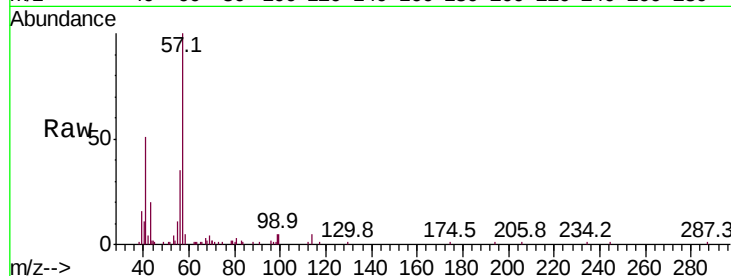
41 48.0 27.6 41.4#

56 41.6 25.3 37.9#

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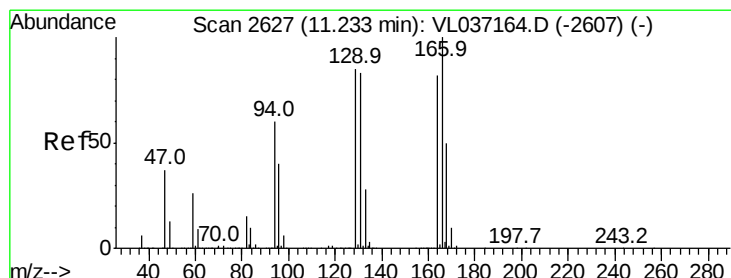
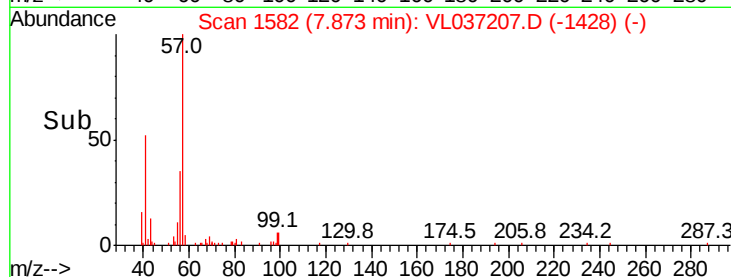
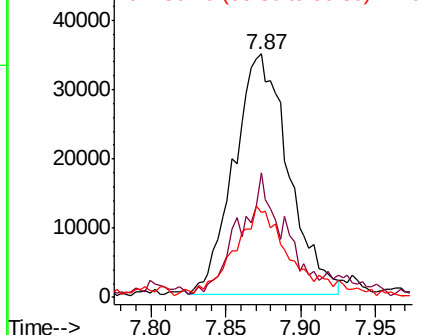
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Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 0.057 ppbv m

RT: 11.22 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Tgt Ion:164 Resp: 8884

Ion Ratio Lower Upper

164 100

166 113.7 97.6 146.4

129 68.8 82.9 124.3#

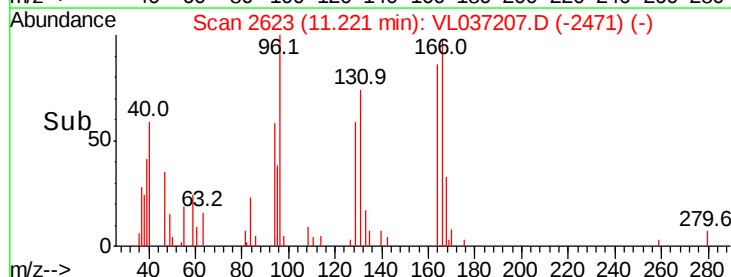
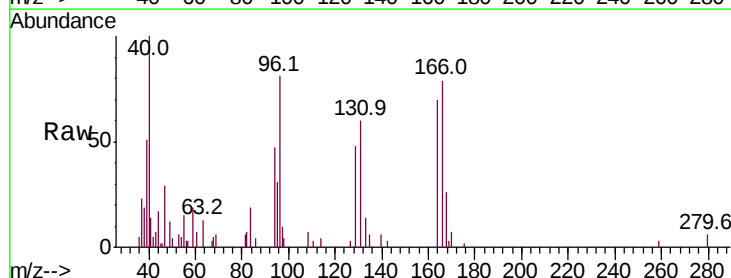
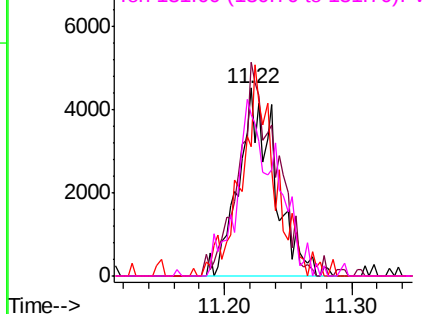
131 86.0 80.6 120.8

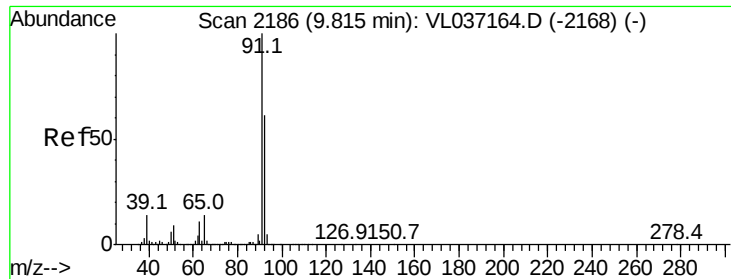
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.492 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.01 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 91 Resp: 198080

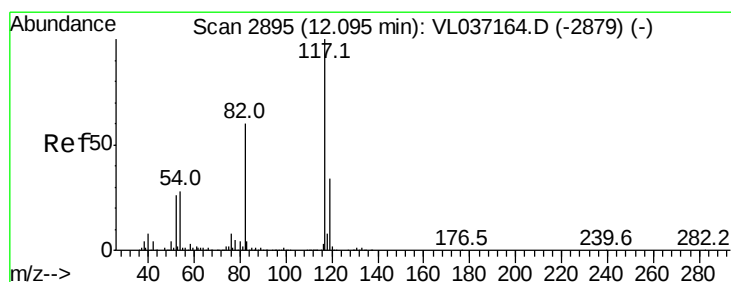
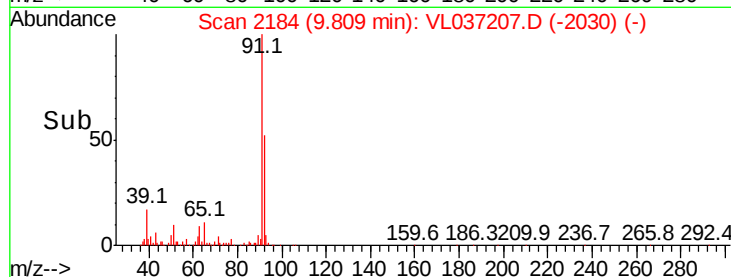
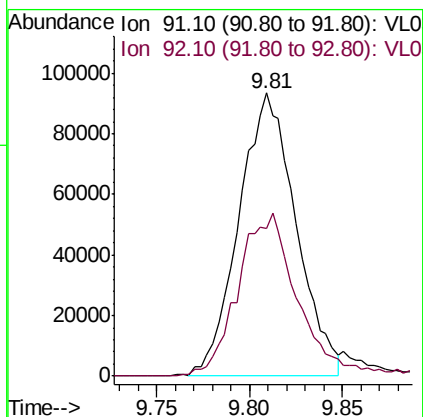
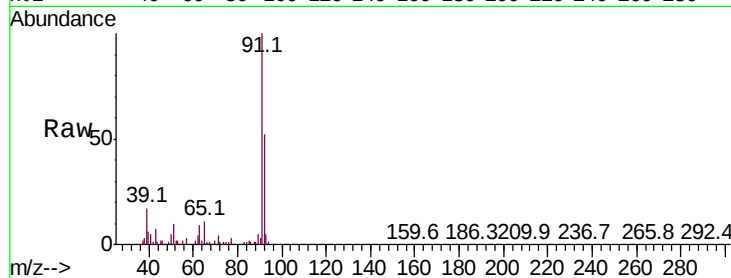
Ion Ratio Lower Upper

91 100

92 61.5 48.3 72.5

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

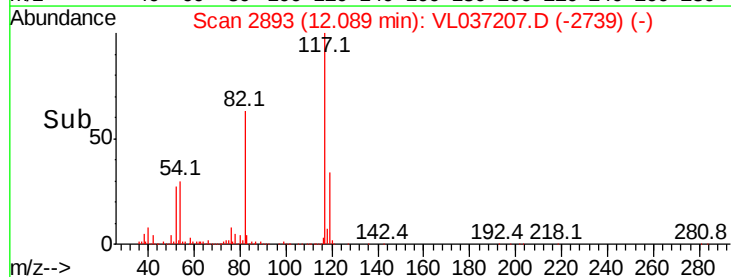
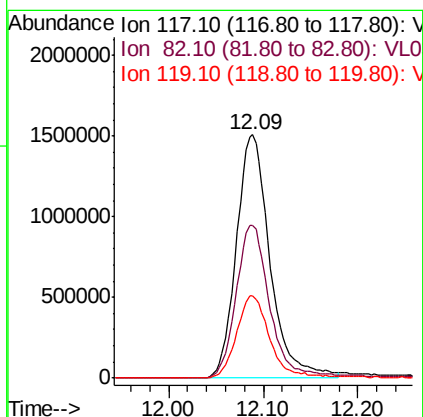
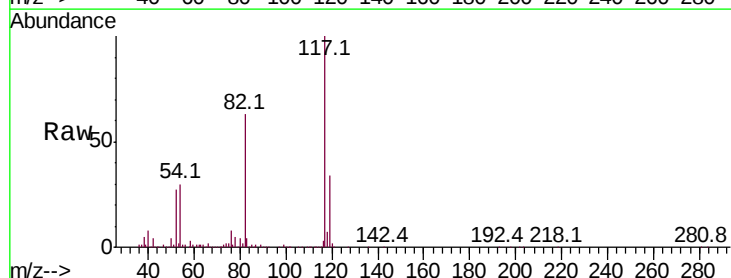
Tgt Ion: 117 Resp: 3723954

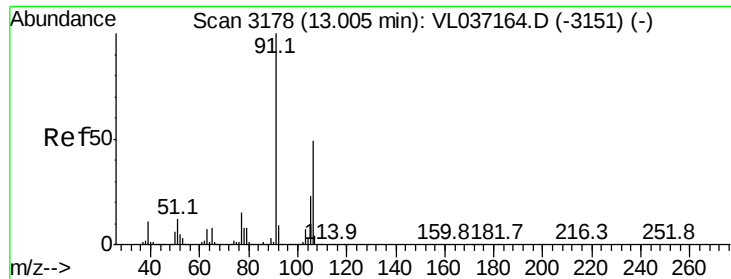
Ion Ratio Lower Upper

117 100

82 64.6 51.7 77.5

119 33.8 47.6 71.4#





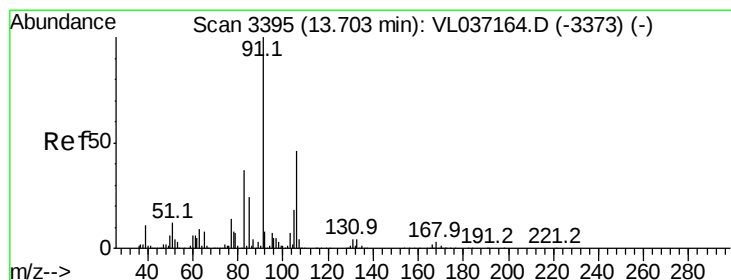
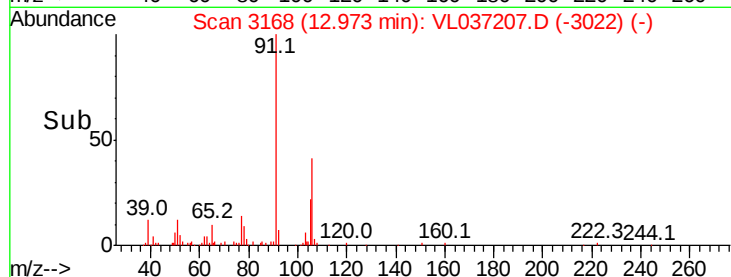
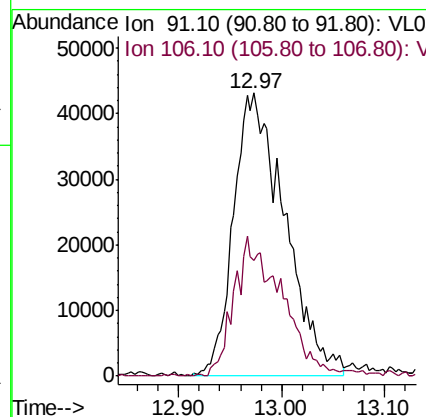
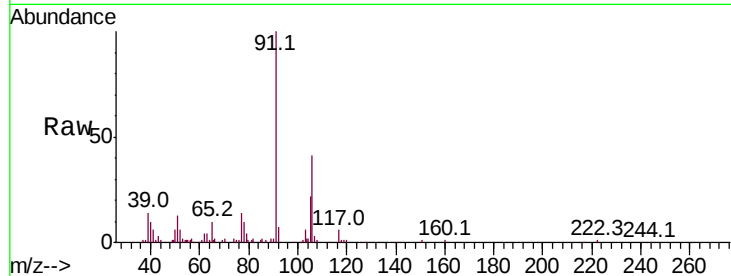
#59
m/p-Xylene
Concen: 0.344 ppbv m
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL037207.D
Acq: 17 Jun 2021 18:39

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	91	106	Ratio	Lower	Upper
149412	100	0.0		37.0	55.4#

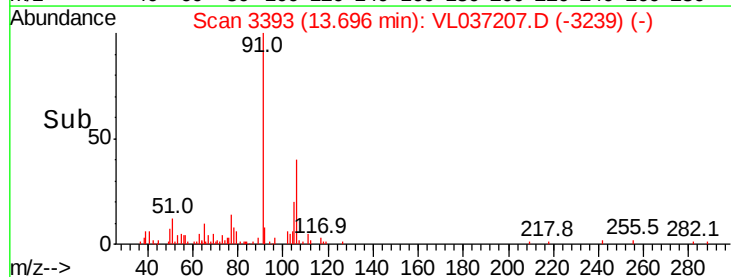
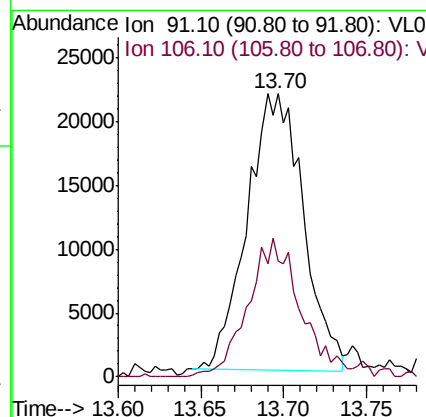
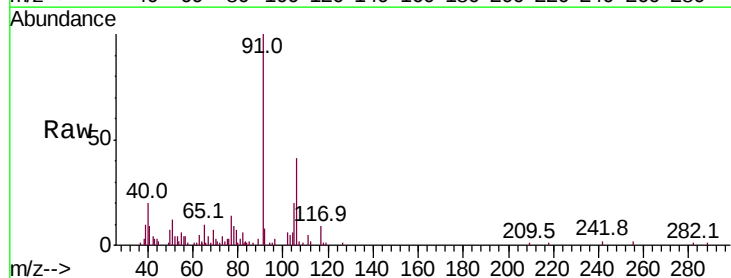
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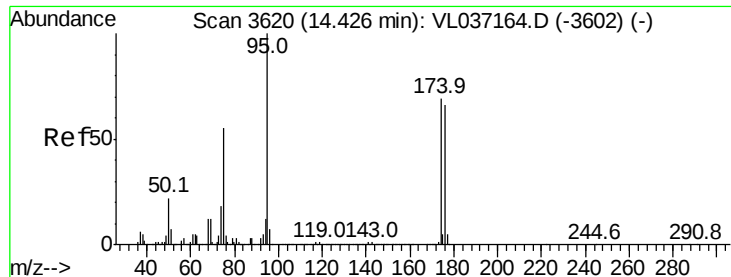
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#60
o-Xylene
Concen: 0.124 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL037207.D
Acq: 17 Jun 2021 18:39

Tgt Ion	91	106	Ratio	Lower	Upper
51209	100	47.7		23.0	69.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.023 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 95 Resp: 2828243

Ion Ratio Lower Upper

95 100

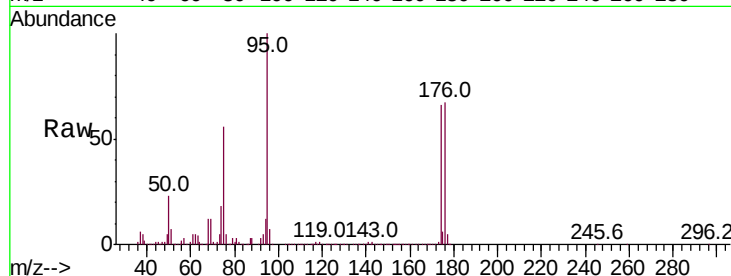
174 72.6 57.0 85.4

175 5.4 4.4 6.6

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Abundance Ion 95.10 (94.80 to 95.80): VL037207.D (-3464) (-)

Ion 174.00 (173.70 to 174.70): VL037207.D (-3464) (-)

Ion 175.00 (174.70 to 175.70): VL037207.D (-3464) (-)

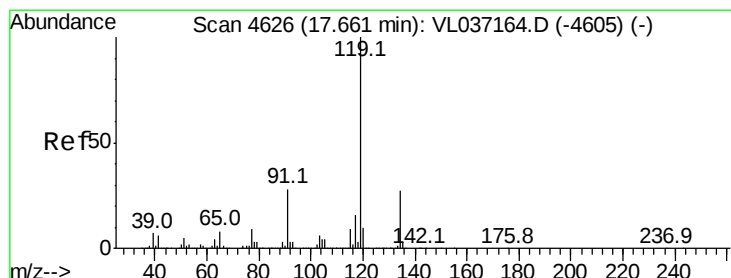
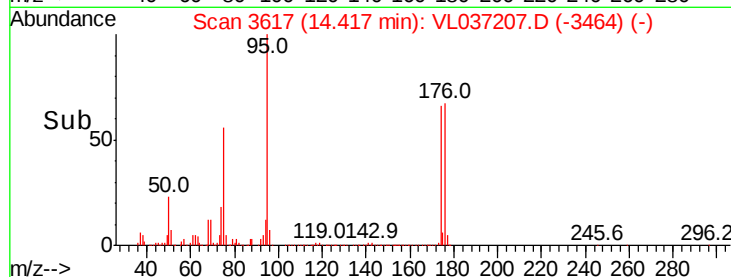
14.42

1000000

500000

0

Time-->



#69

p-Isopropyltoluene

Concen: 0.213 ppbv m

RT: 17.65 min Scan# 4624

Delta R.T. -0.01 min

Lab File: VL037207.D

Acq: 17 Jun 2021 18:39

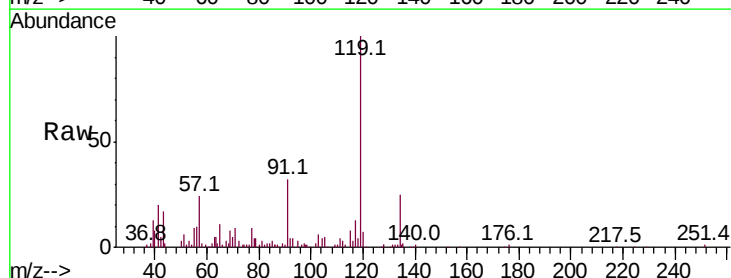
Tgt Ion: 119 Resp: 125214

Ion Ratio Lower Upper

119 100

134 24.8 20.9 31.3

91 30.2 22.6 34.0



Abundance Ion 119.10 (118.80 to 119.80): VL037207.D (-4470) (-)

Ion 134.20 (133.90 to 134.90): VL037207.D (-4470) (-)

Ion 91.10 (90.80 to 91.80): VL037207.D (-4470) (-)

17.65

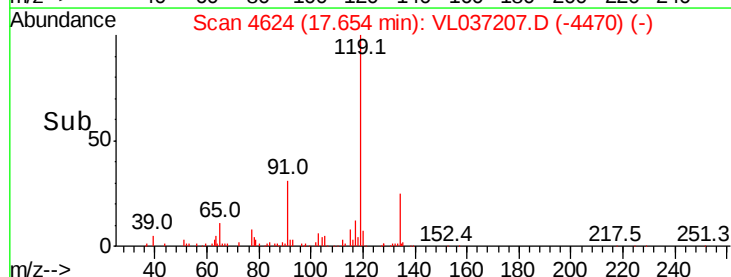
60000

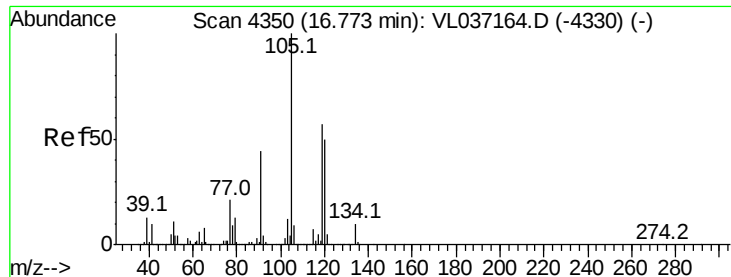
40000

20000

0

Time-->





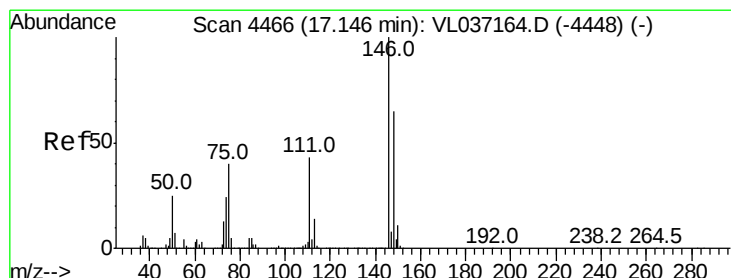
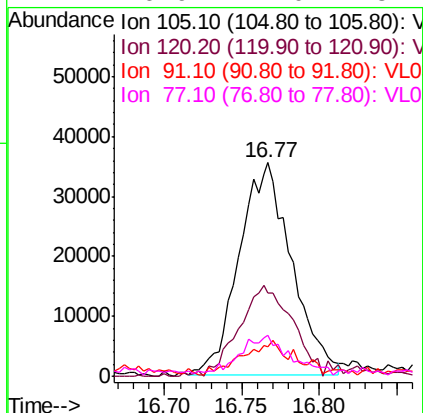
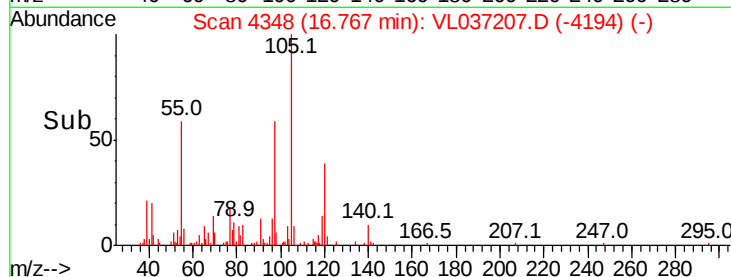
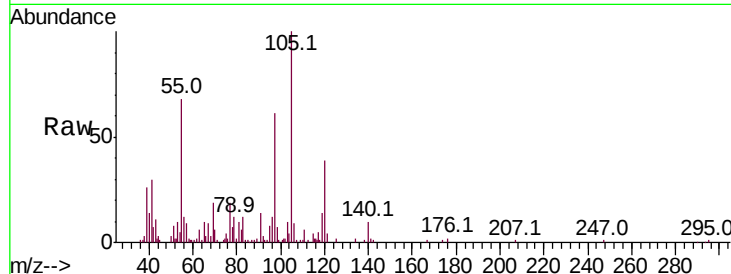
#74
 1,2,4-Trimethylbenzene
 Concen: 0.179 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL037207.D
 Acq: 17 Jun 2021 18:39

Instrument :
 MSVOA_L
 ClientSampled :
 IA2

Tot Ion	Ratio	Lower	Upper
105	100		
120	38.6	39.8	59.8#
91	10.8	37.0	55.4#
77	16.9	17.0	25.4#

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#76
 1,4-Dichlorobenzene
 Concen: 0.103 ppbv m
 RT: 17.14 min Scan# 4463
 Delta R.T. -0.01 min
 Lab File: VL037207.D
 Acq: 17 Jun 2021 18:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	87.8	22.7	68.0#
148	60.5	33.7	101.1

