

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034413.D
 Acq On : 25 Nov 2019 19:40
 Operator : SY/AP
 Sample : K5971-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 7

Manual Integrations
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 12/2/2019 10:03:58 AM

Quant Time: Nov 29 12:10:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 1
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	904105	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1829443	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1775073	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1524856	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	92772	0.567	ppbv	98
3) Chlorodifluoromethane	2.96	51	38661m	0.343	ppbv	
4) Chloromethane	3.11	50	30840m	0.464	ppbv	
9) Propene	3.00	41	36223m	0.723	ppbv	
11) Trichlorofluoromethane	3.94	101	35061	0.215	ppbv	89
13) Ethanol	3.59	45	736124	52.766	ppbv	96
15) Acetone	3.84	43	648653	5.010	ppbv	98
19) Isopropyl Alcohol	3.96	45	866369m	10.440	ppbv	
20) Methylene Chloride	4.34	84	81518	1.776	ppbv	96
26) Hexane	5.70	57	93594	0.943	ppbv #	47
29) Chloroform	5.76	83	22147m	0.138	ppbv	
30) Cyclohexane	7.15	84	9630m	0.128	ppbv	
34) 2-Butanone	5.25	43	54212	0.360	ppbv	98
35) Carbon Tetrachloride	7.04	117	9711m	0.062	ppbv	
36) Benzene	6.91	78	37152	0.203	ppbv #	92
44) 2,2,4-Trimethylpentane	7.89	57	32509m	0.097	ppbv	
52) Tetrachloroethene	11.27	164	5005m	0.063	ppbv	
53) Toluene	9.84	91	357735	1.722	ppbv	98
59) m/p-Xylene	13.02	91	40865m	0.172	ppbv	

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

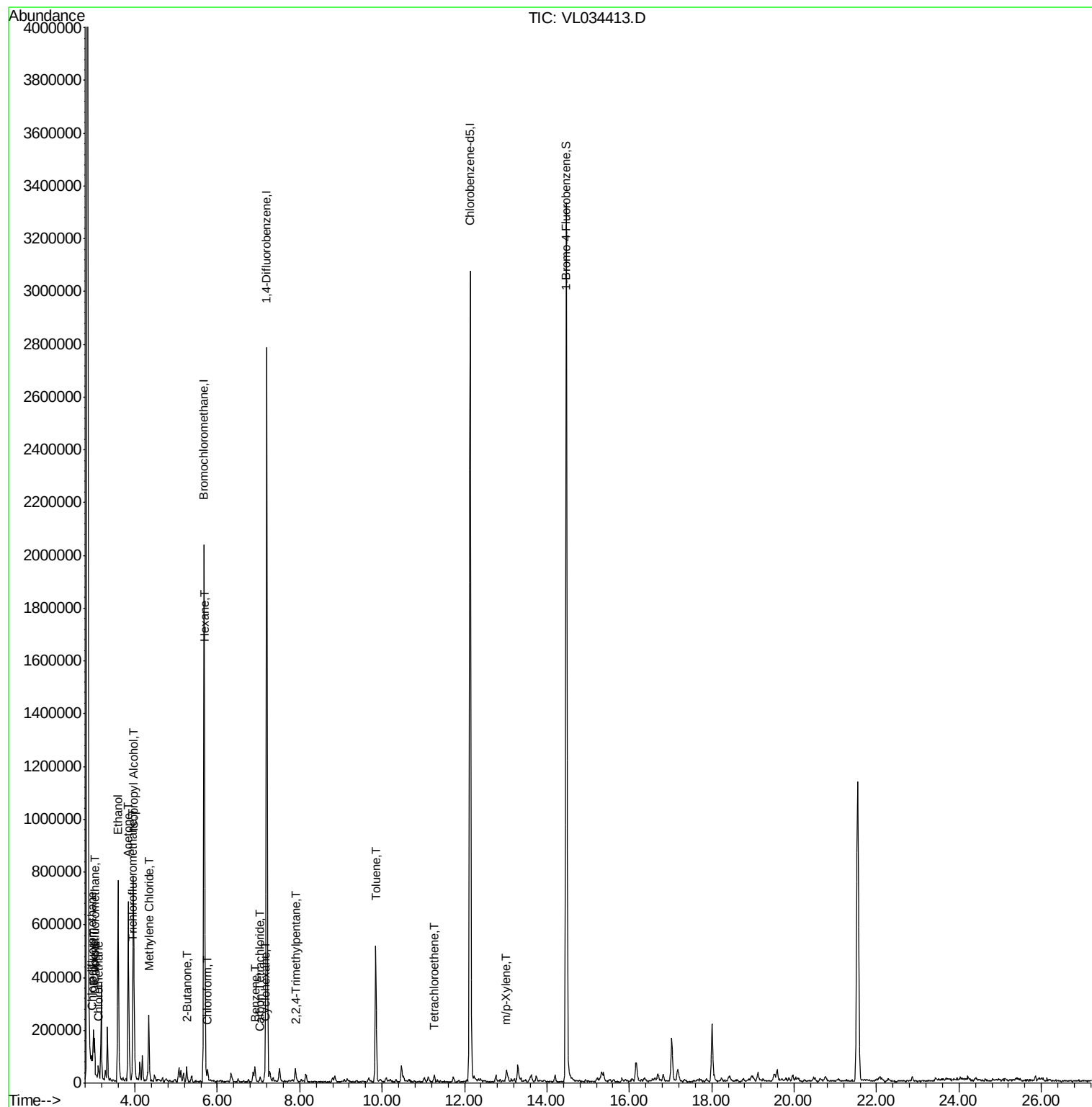
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112519\
Data File : VL034413.D
Acq On : 25 Nov 2019 19:40
Operator : SY/AP
Sample : K5971-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

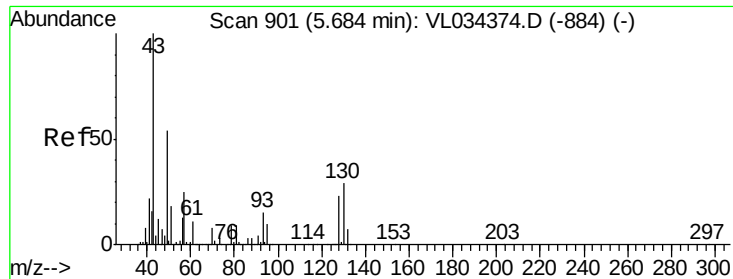
Instrument :
MSVOA_L
ClientSampleId :
7

Manual Integrations
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Quant Time: Nov 29 12:10:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL034413.D

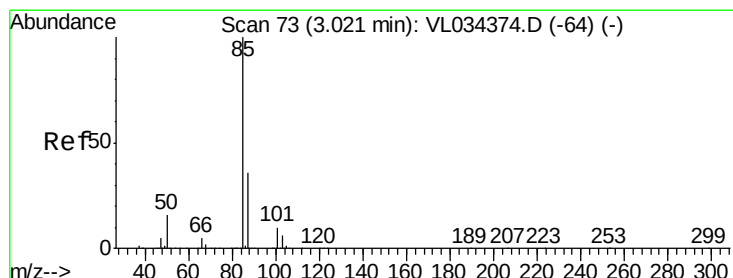
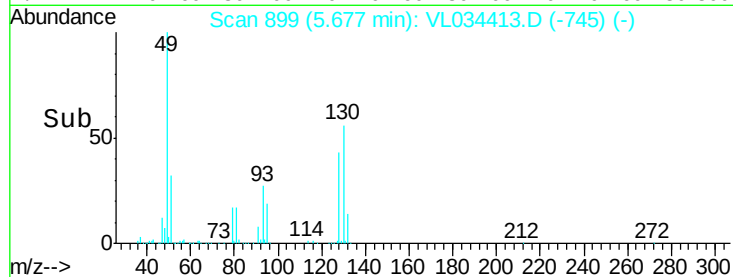
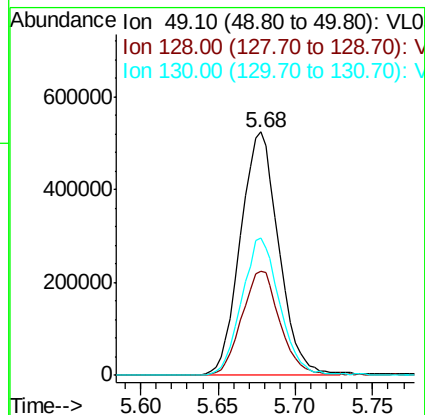
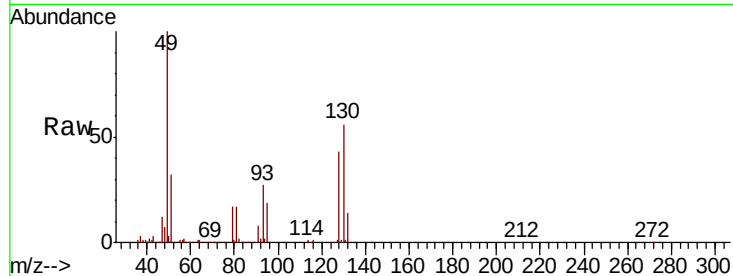
Acq: 25 Nov 2019 19:40

Instrument :
MSVOA_L
ClientSampled :
7

Tot Ion:	49	Resp:	904105
Ion	Ratio	Lower	Upper
49	100		
128	43.3	21.8	65.3
130	56.0	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.567 ppbv

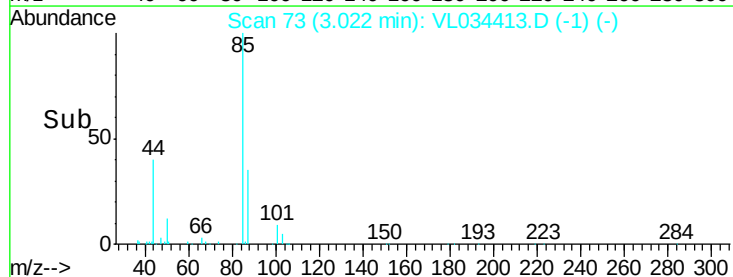
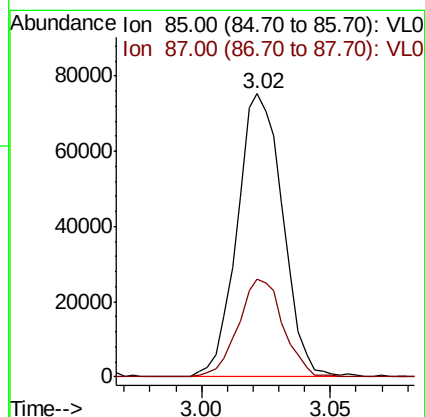
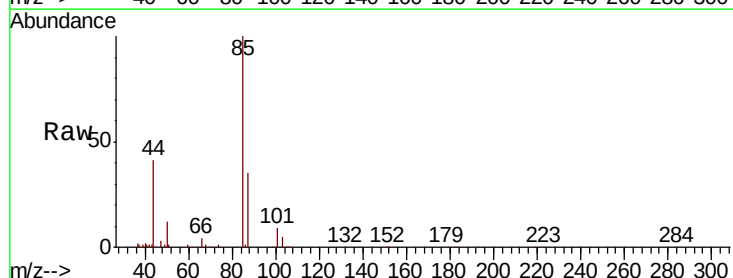
RT: 3.02 min Scan# 73

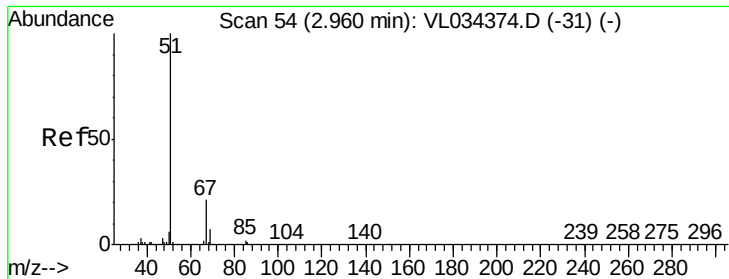
Delta R.T. 0.00 min

Lab File: VL034413.D

Acq: 25 Nov 2019 19:40

Tgt Ion:	85	Resp:	92772
Ion	Ratio	Lower	Upper
85	100		
87	34.7	28.5	42.7





#3

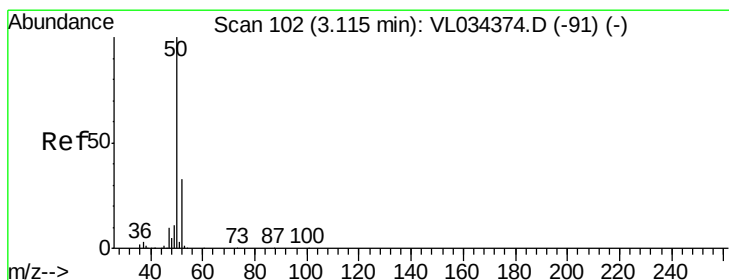
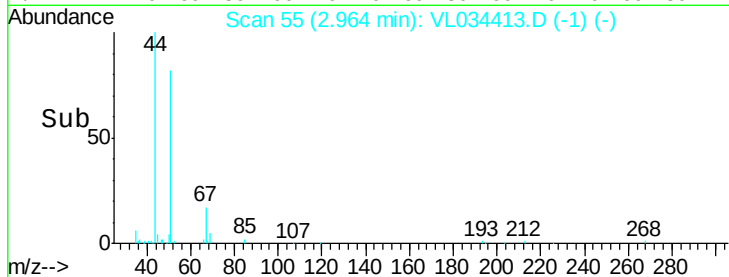
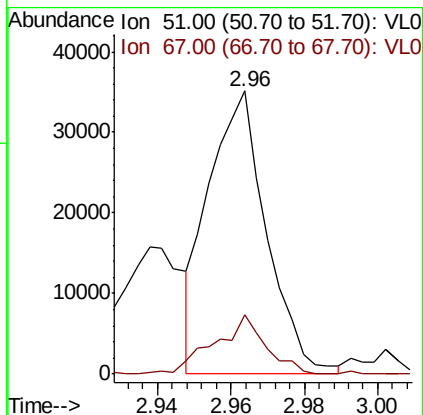
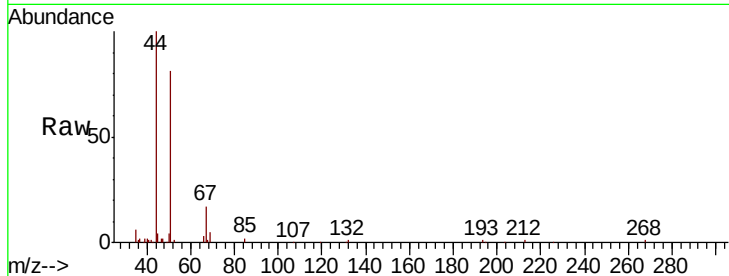
Chlorodifluoromethane
 Concen: 0.343 ppbv m
 RT: 2.96 min Scan# 55
 Delta R.T. 0.00 min
 Lab File: VL034413.D
 Acq: 25 Nov 2019 19:40

Instrument :
 MSVOA_L
 ClientSampleId :
 7

Tot Ion	Ratio	Lower	Upper
51	100		
67	18.8	16.2	24.2

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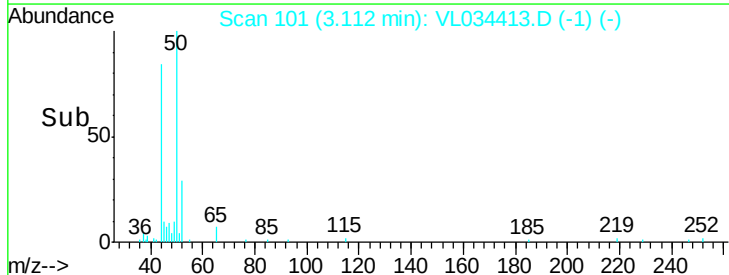
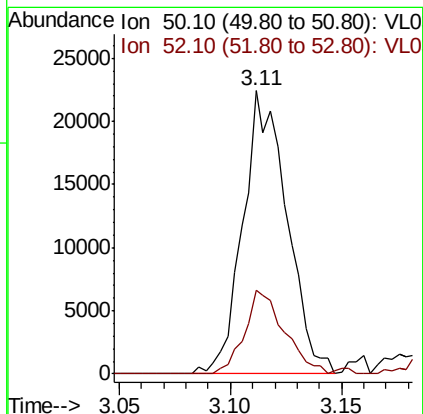
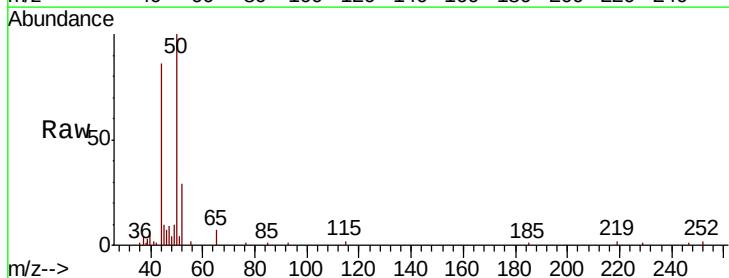
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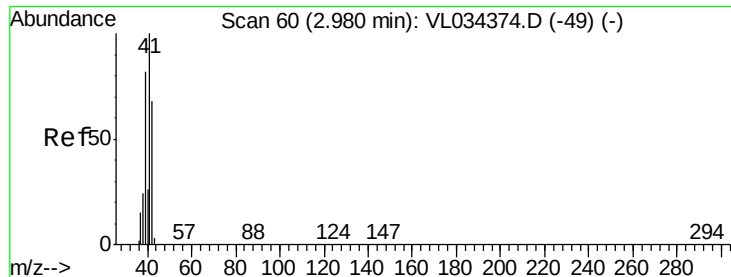


#4

Chloromethane
 Concen: 0.464 ppbv m
 RT: 3.11 min Scan# 101
 Delta R.T. -0.00 min
 Lab File: VL034413.D
 Acq: 25 Nov 2019 19:40

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.4	26.8	40.2





#9

Propene

Concen: 0.723 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. 0.02 min

Lab File: VL034413.D

Acq: 25 Nov 2019 19:40

Instrument :

MSVOA_L

ClientSampled :

7

Tot Ion: 41 Resp: 36223

Ion Ratio Lower Upper

41 100

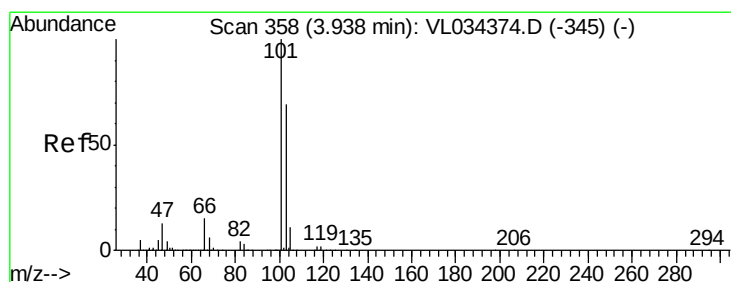
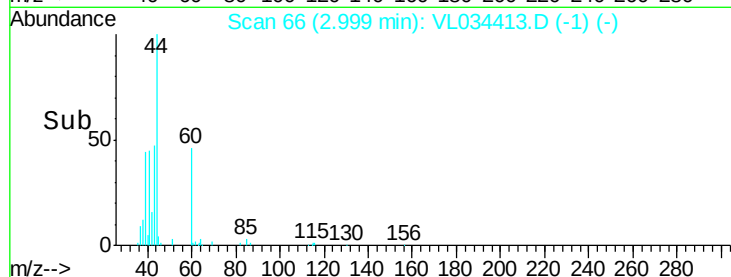
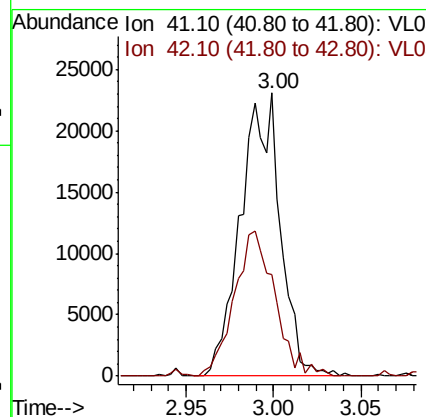
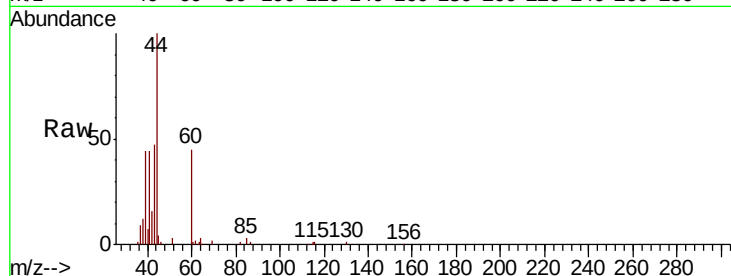
42 53.4 54.6 82.0#

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#11

Trichlorofluoromethane

Concen: 0.215 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.00 min

Lab File: VL034413.D

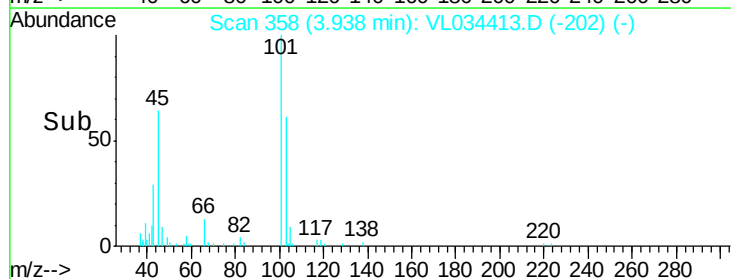
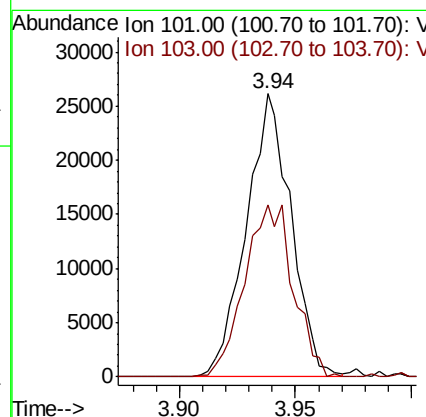
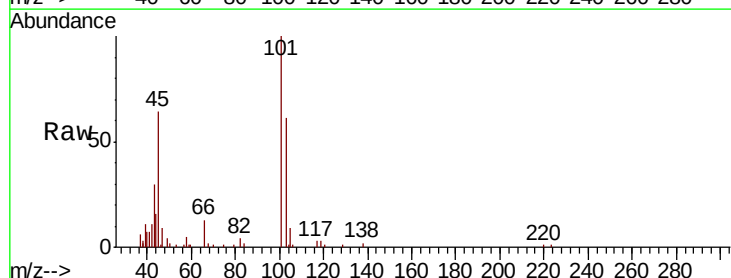
Acq: 25 Nov 2019 19:40

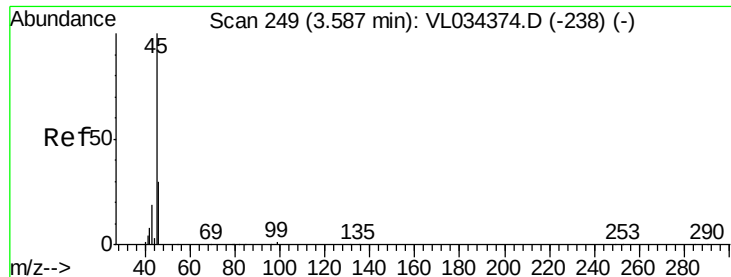
Tgt Ion: 101 Resp: 35061

Ion Ratio Lower Upper

101 100

103 60.6 55.4 83.0





#13

Ethanol

Concen: 52.766 ppbv

RT: 3.59 min Scan# 250

Delta R.T. 0.00 min

Lab File: VL034413.D

Acq: 25 Nov 2019 19:40

Instrument :

MSVOA_L

ClientSampled :

7

Tot Ion: 45 Resp: 736124

Ion Ratio Lower Upper

45 100

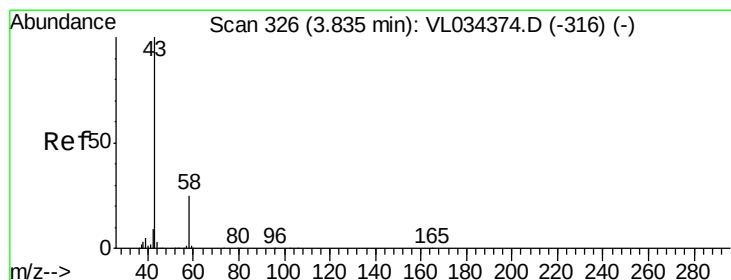
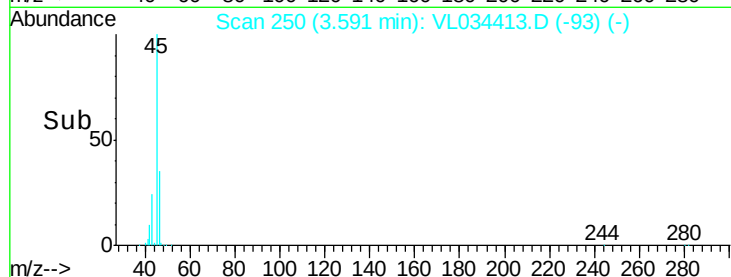
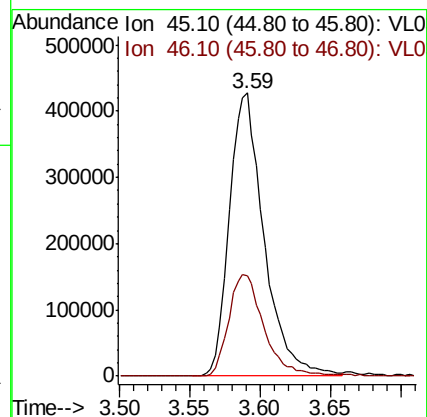
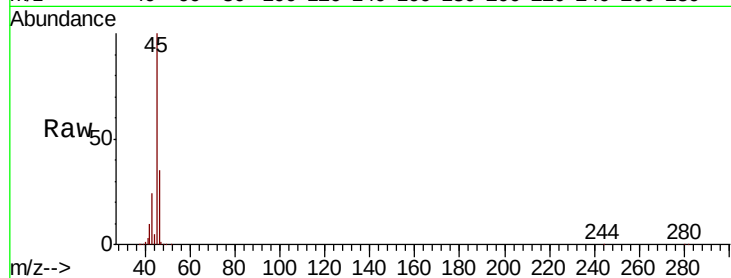
46 36.9 13.8 55.4

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#15

Acetone

Concen: 5.010 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.00 min

Lab File: VL034413.D

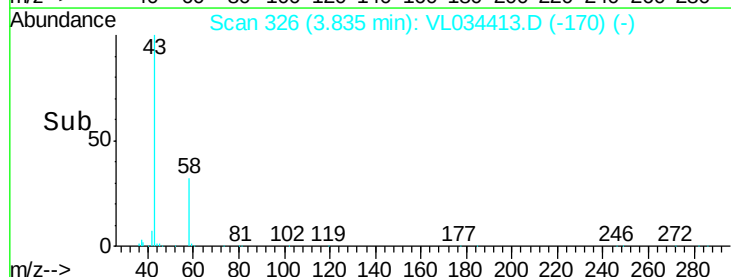
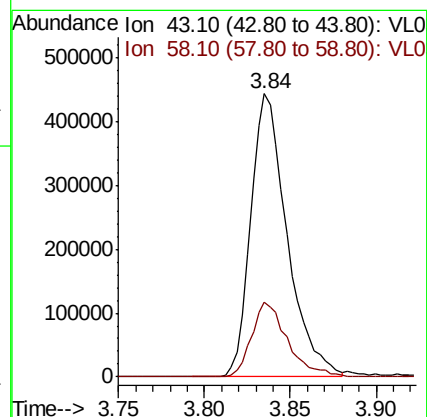
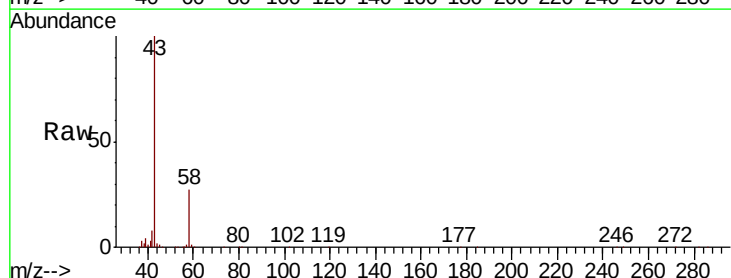
Acq: 25 Nov 2019 19:40

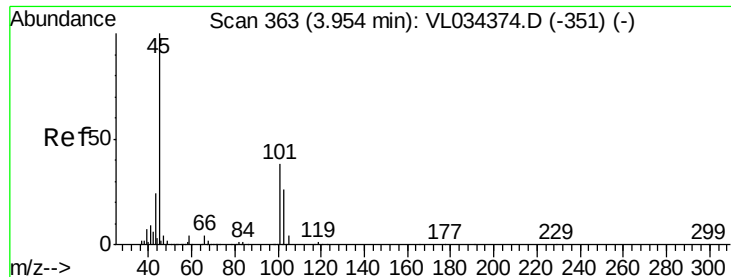
Tgt Ion: 43 Resp: 648653

Ion Ratio Lower Upper

43 100

58 26.3 20.2 30.4





#19

Isopropyl Alcohol

Concen: 10.440 ppbv m

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL034413.D

Acq: 25 Nov 2019 19:40

Instrument :

MSVOA_L

ClientSampled :

7

Tot Ion: 45 Resp: 866369

Ion Ratio Lower Upper

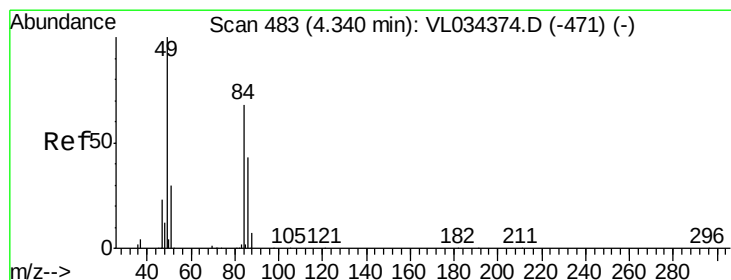
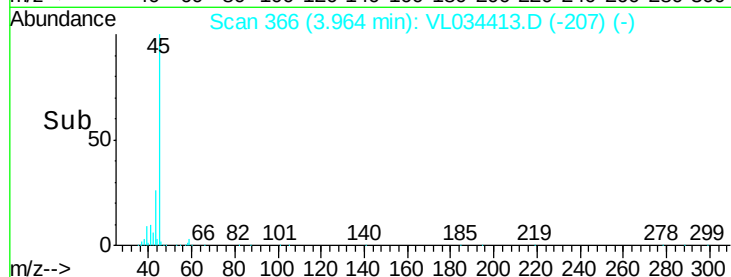
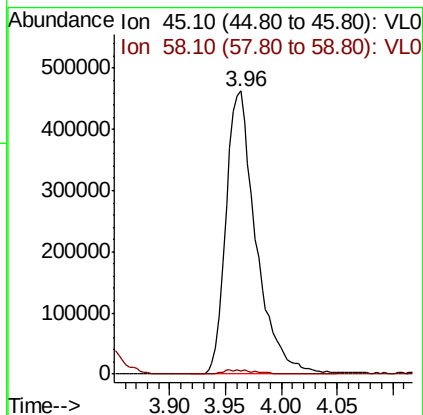
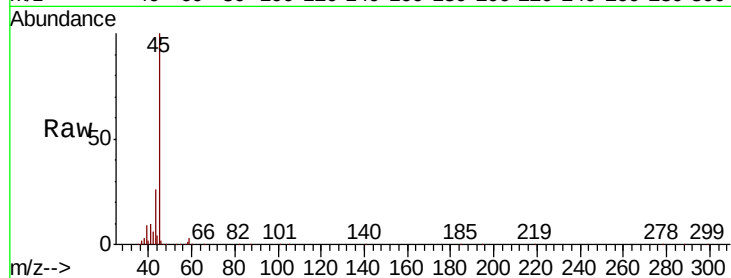
45 100

58 0.0 1.3 1.9#

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#20

Methylene Chloride

Concen: 1.776 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL034413.D

Acq: 25 Nov 2019 19:40

Tgt Ion: 84 Resp: 81518

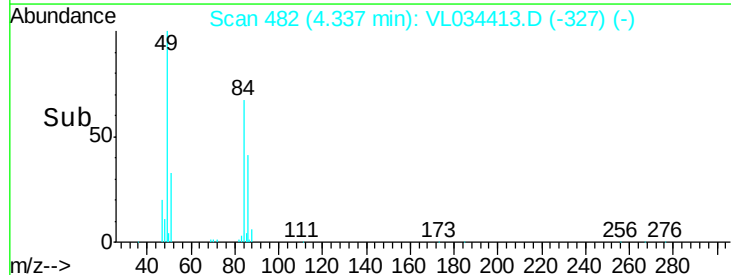
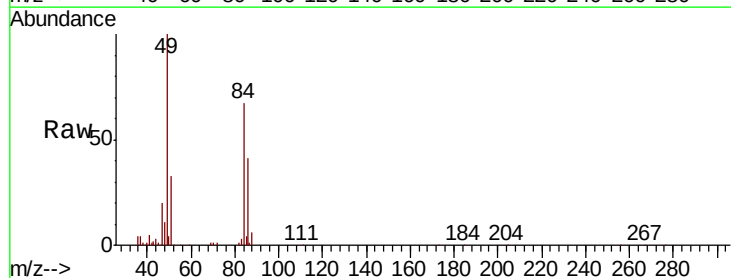
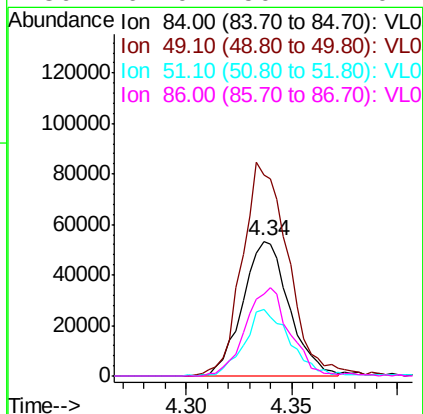
Ion Ratio Lower Upper

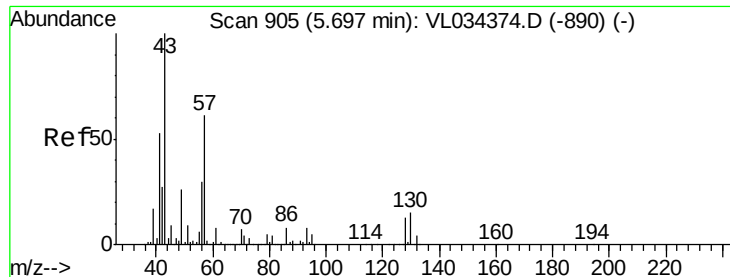
84 100

49 149.7 116.8 175.2

51 48.8 35.6 53.4

86 61.0 50.7 76.1





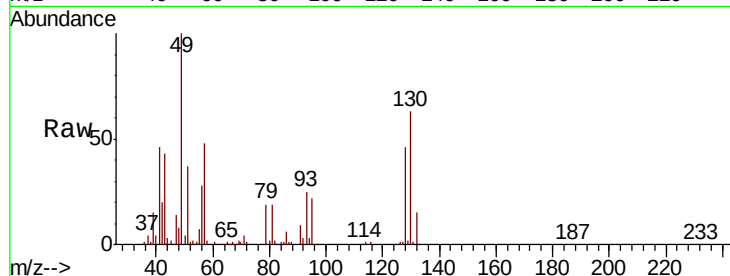
#26
Hexane
Concen: 0.943 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL034413.D
Acq: 25 Nov 2019 19:40

Instrument :
MSVOA_L
ClientSampleId :
7

Tot Ion	Ratio	Lower	Upper
57	100		
41	97.1	75.0	112.4
43	95.9	186.6	279.8#
56	57.8	41.5	62.3

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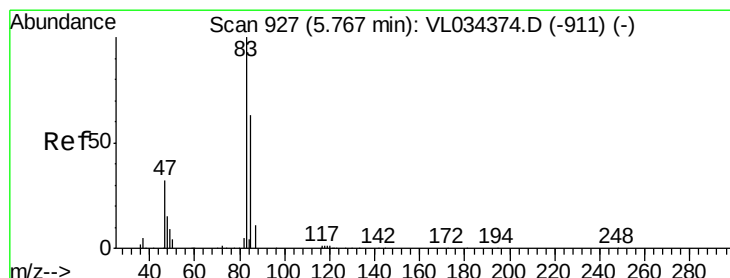
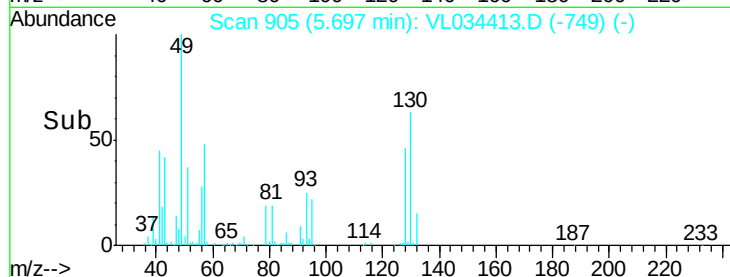
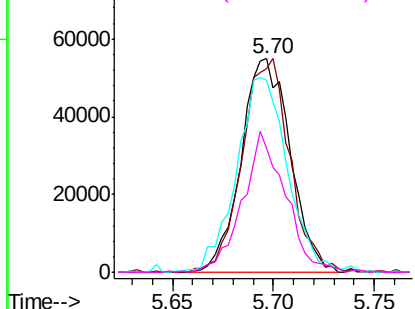
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

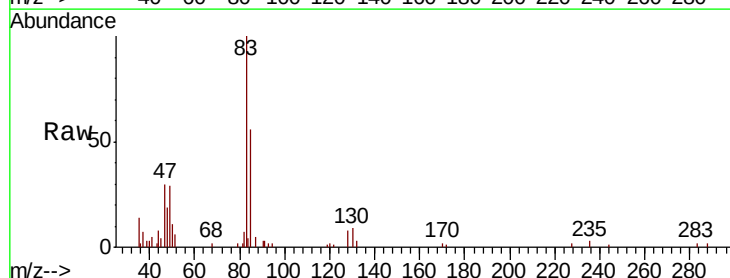
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.138 ppbv m
RT: 5.76 min Scan# 925
Delta R.T. -0.01 min
Lab File: VL034413.D
Acq: 25 Nov 2019 19:40

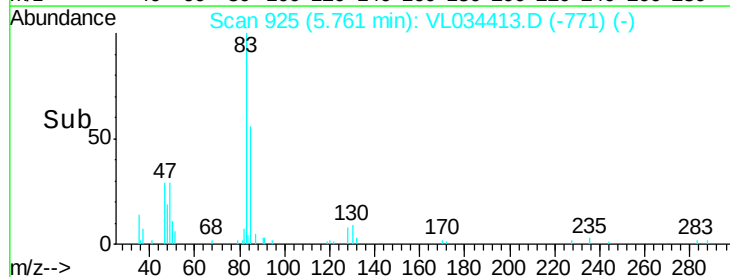
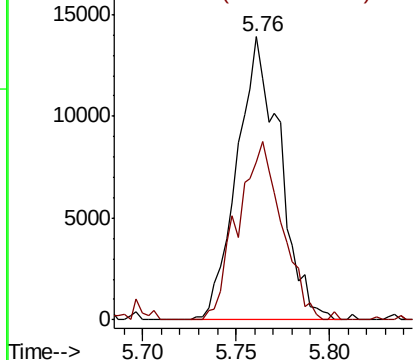
Tgt Ion	Ratio	Lower	Upper
83	100		
85	55.8	50.4	75.6

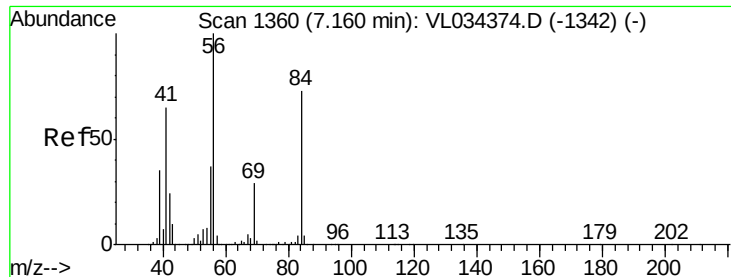


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





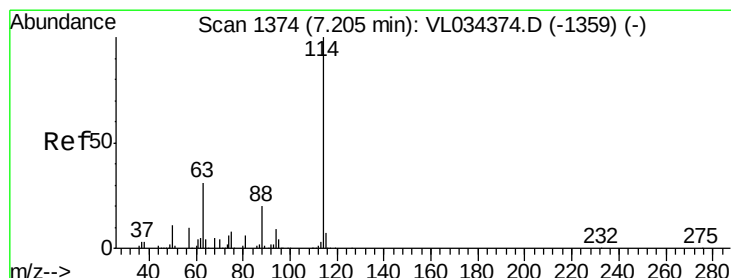
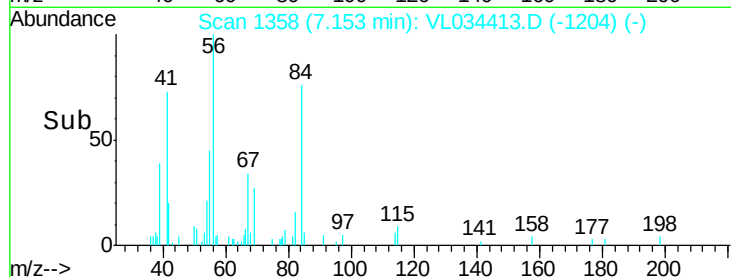
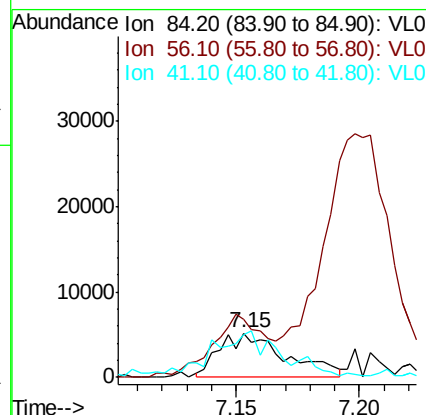
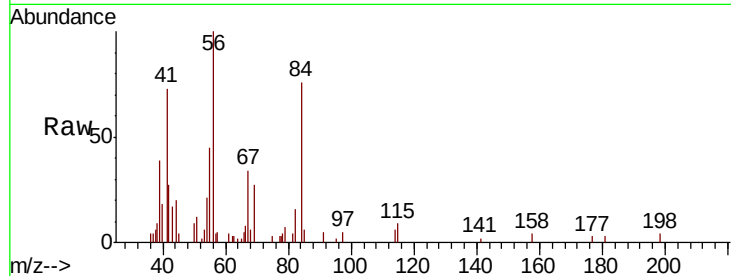
#30
Cyclohexane
Concen: 0.128 ppbv m
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL034413.D
Acq: 25 Nov 2019 19:40

Instrument :
MSVOA_L
ClientSampled :
7

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	112.6	169.0#
41	0.0	73.4	110.2#

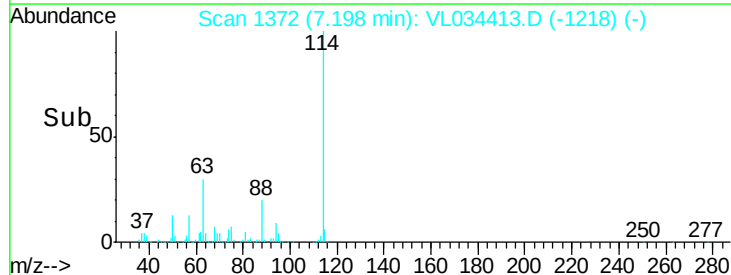
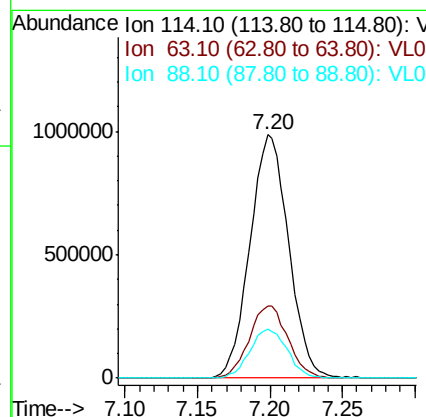
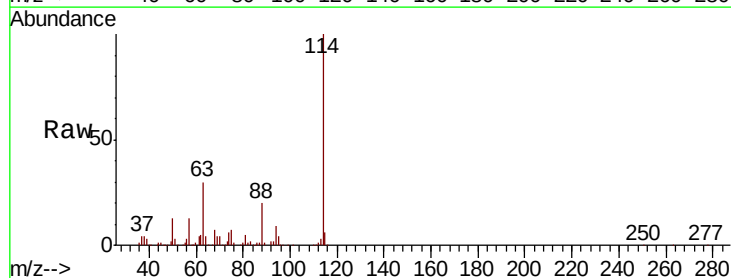
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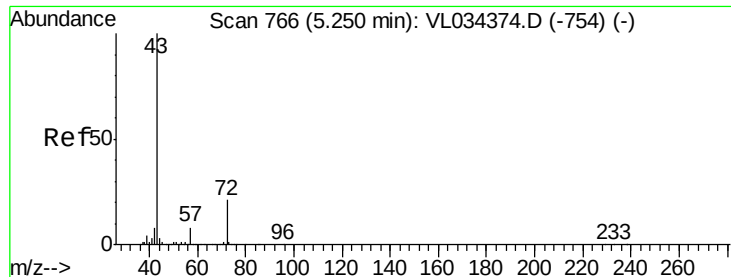
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034413.D
Acq: 25 Nov 2019 19:40

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.8	24.2	36.4
88	19.7	15.9	23.9





#34

2-Butanone

Concen: 0.360 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL034413.D

Acq: 25 Nov 2019 19:40

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 43 Resp: 54212

Ion Ratio Lower Upper

43 100

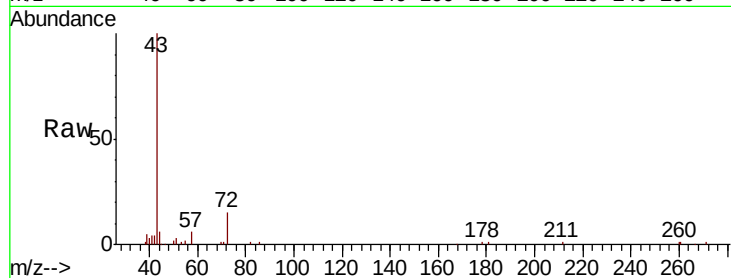
72 22.0 17.0 25.6

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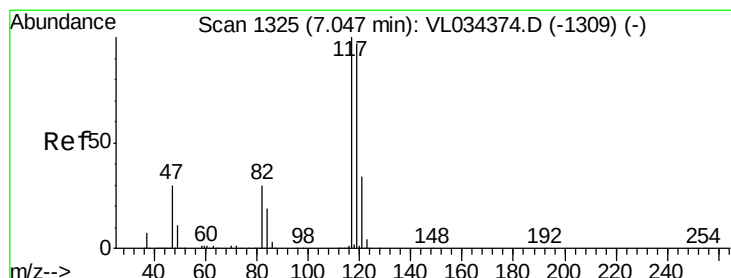
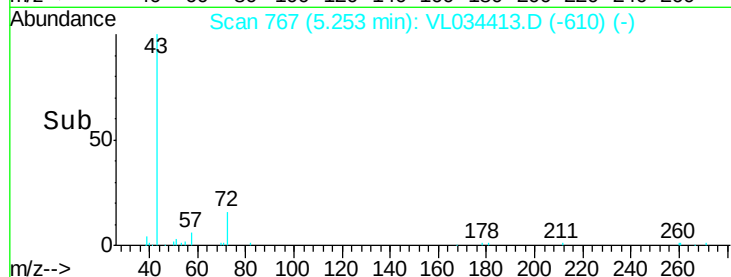
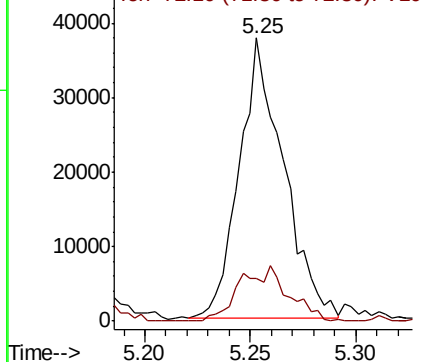
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.062 ppbv m

RT: 7.04 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VL034413.D

Acq: 25 Nov 2019 19:40

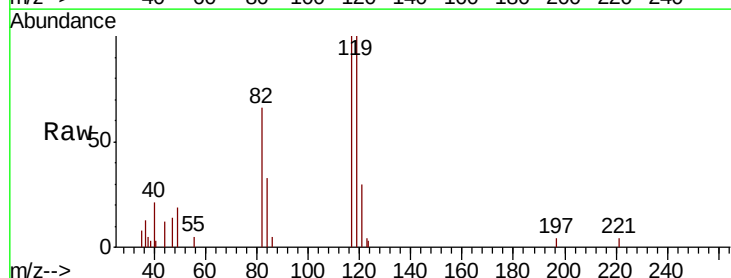
Tgt Ion: 117 Resp: 9711

Ion Ratio Lower Upper

117 100

119 100.0 77.3 115.9

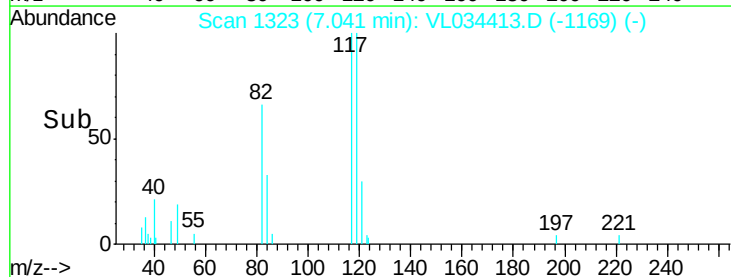
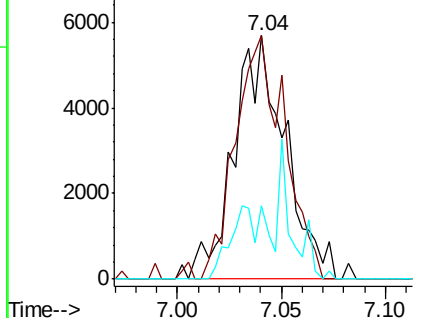
121 30.3 27.4 41.2

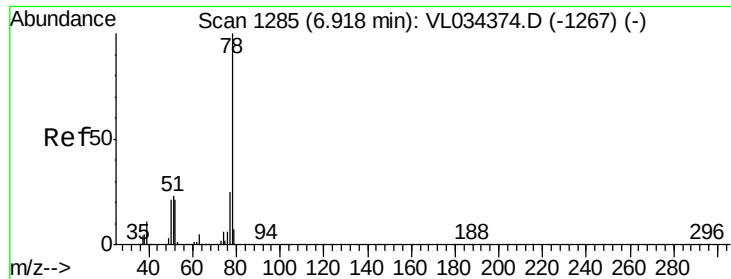


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.203 ppbv

RT: 6.91 min Scan# 1283

Delta R.T. -0.01 min

Lab File: VL034413.D

Acq: 25 Nov 2019 19:40

Instrument :

MSVOA_L

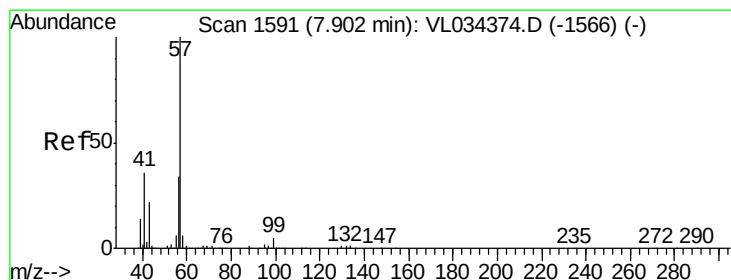
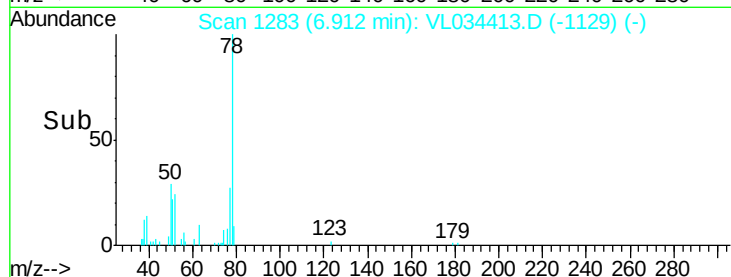
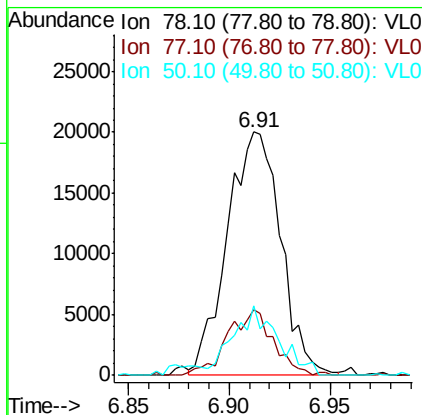
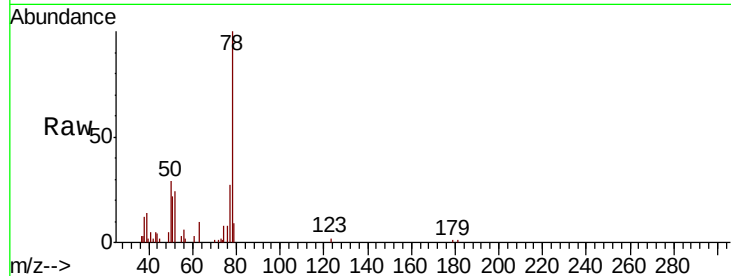
ClientSampled :

7

Tot Ion:	78	Resp:	37152
Ion	Ratio	Lower	Upper
78	100		
77	26.0	20.2	30.4
50	28.9	17.1	25.7#

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#44

2,2,4-Trimethylpentane

Concen: 0.097 ppbv m

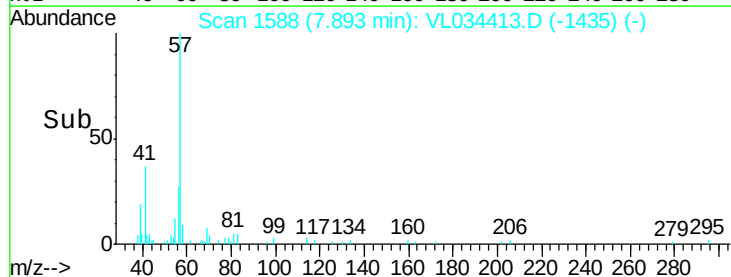
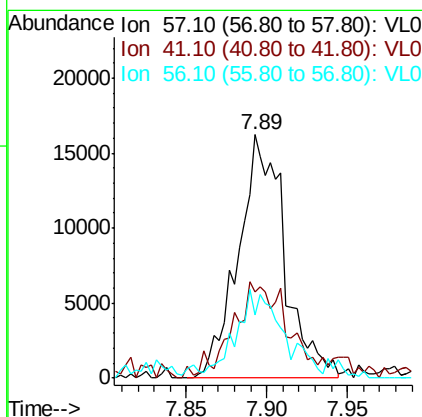
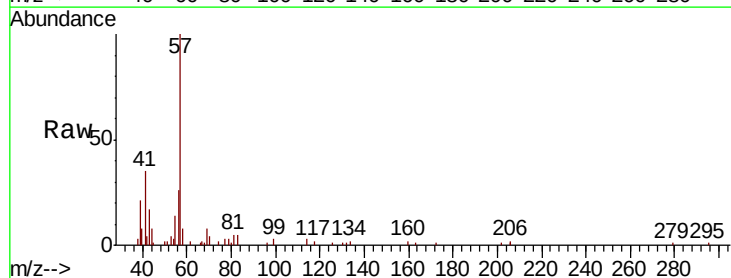
RT: 7.89 min Scan# 1588

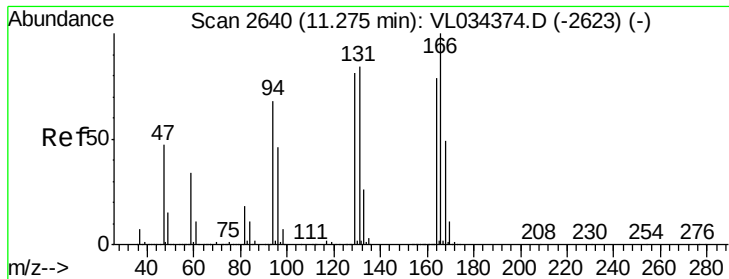
Delta R.T. -0.01 min

Lab File: VL034413.D

Acq: 25 Nov 2019 19:40

Tgt Ion:	57	Resp:	32509
Ion	Ratio	Lower	Upper
57	100		
41	52.6	28.6	42.8#
56	40.7	25.3	37.9#





#52

Tetrachloroethene

Concen: 0.063 ppbv m

RT: 11.27 min Scan# 2639

Delta R.T. -0.00 min

Lab File: VL034413.D

Acq: 25 Nov 2019 19:40

Instrument :

MSVOA_L

ClientSampled :

7

Tot Ion:164 Resp: 5005

Ion Ratio Lower Upper

164 100

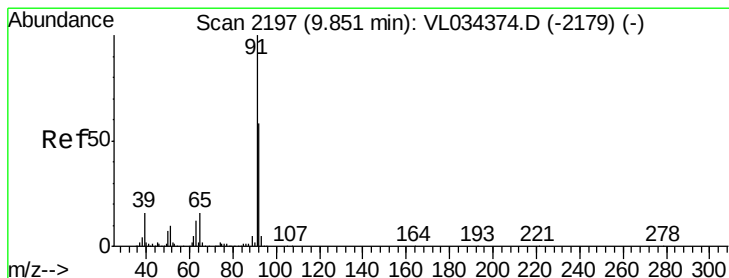
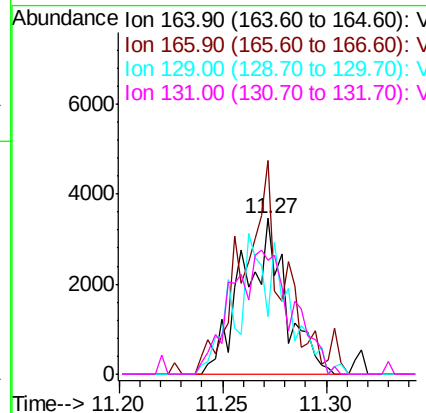
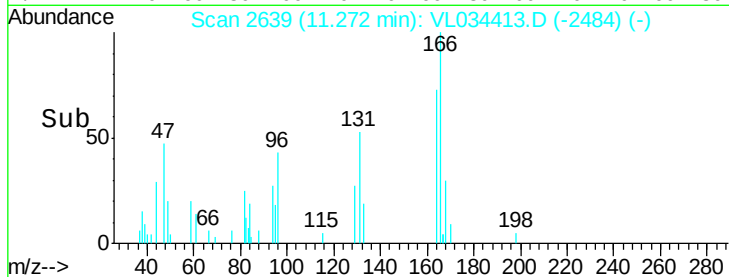
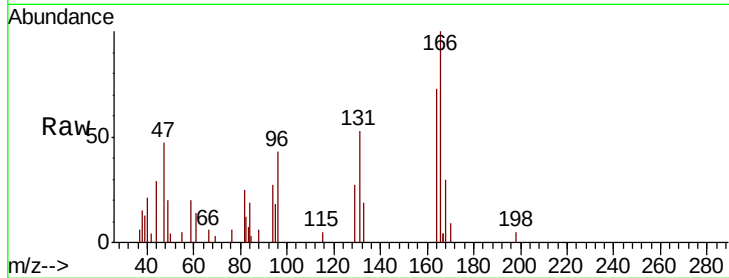
166 137.1 101.7 152.5

129 36.9 82.6 123.8#

131 73.0 85.2 127.8#

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#53

Toluene

Concen: 1.722 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL034413.D

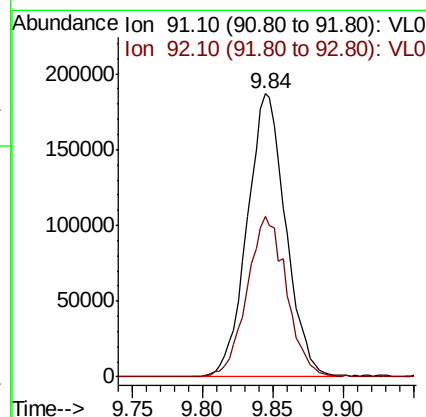
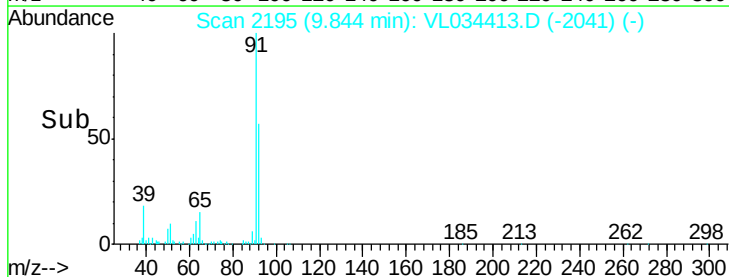
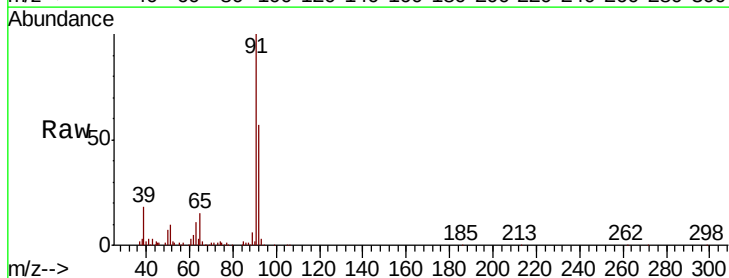
Acq: 25 Nov 2019 19:40

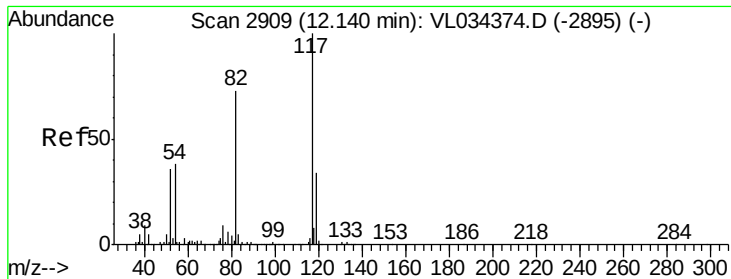
Tgt Ion: 91 Resp: 357735

Ion Ratio Lower Upper

91 100

92 58.1 47.9 71.9





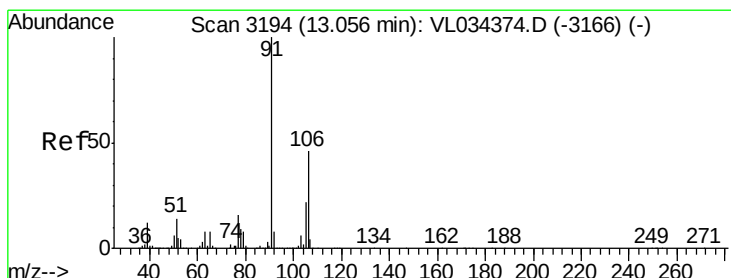
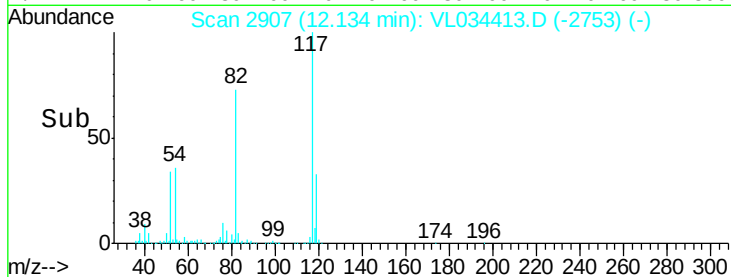
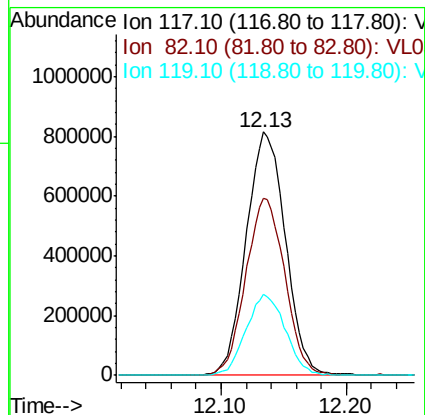
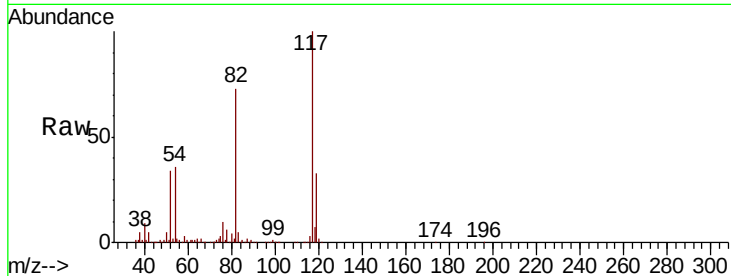
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034413.D
Acq: 25 Nov 2019 19:40

Instrument :
MSVOA_L
ClientSampled :
7

Tot Ion:117 Resp: 1775073
Ion Ratio Lower Upper
117 100
82 72.4 57.5 86.3
119 33.4 25.4 38.2

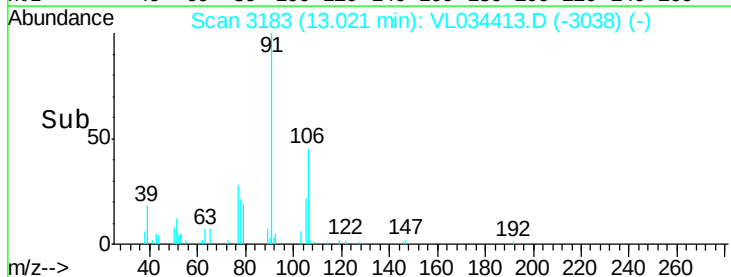
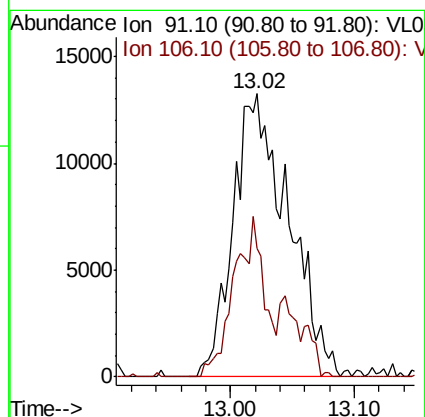
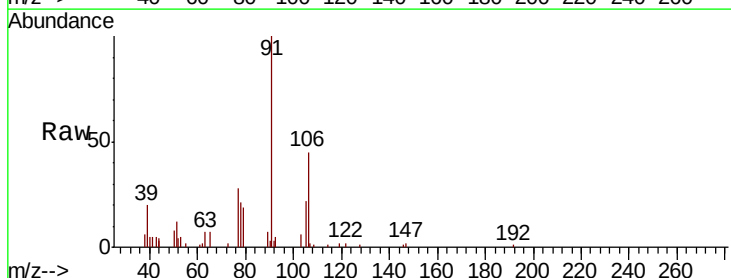
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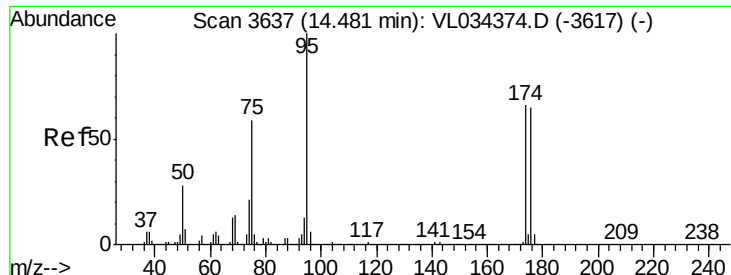
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#59
m/p-Xylene
Concen: 0.172 ppbv m
RT: 13.02 min Scan# 3183
Delta R.T. -0.04 min
Lab File: VL034413.D
Acq: 25 Nov 2019 19:40

Tgt Ion: 91 Resp: 40865
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.211 ppbv
 RT: 14.47 min Scan# 3634
 Delta R.T. -0.01 min
 Lab File: VL034413.D
 Acq: 25 Nov 2019 19:40

Instrument :
 MSVOA_L
 ClientSampleId :
 7

Tot Ion: 95 Resp: 1524856
 Ion Ratio Lower Upper
 95 100
 174 65.5 52.2 78.2
 175 4.7 3.8 5.8

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