

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120919\
 Data File : VL034482.D
 Acq On : 10 Dec 2019 2:47
 Operator : SY/AP
 Sample : K6181-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-2

Manual Integrations
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Quant Time: Dec 11 11:47:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 14:15:35 2019
 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	5.67	49	847673	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1723616	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1717461	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1479486	10.24	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	30676	0.200	ppbv	89
3) Chlorodifluoromethane	2.96	51	299803	2.835	ppbv	98
4) Chloromethane	3.11	50	31192	0.500	ppbv #	86
9) Propene	2.98	41	252342	5.374	ppbv	92
10) Heptane	8.15	43	191955	1.584	ppbv	99
11) Trichlorofluoromethane	3.93	101	47565m	0.312	ppbv	
13) Ethanol	3.59	45	734289	56.139	ppbv	97
15) Acetone	3.83	43	879492	7.246	ppbv #	83
19) Isopropyl Alcohol	3.96	45	207397	2.666	ppbv #	1
20) Methylene Chloride	4.33	84	199390	4.632	ppbv	91
26) Hexane	5.69	57	423633	4.552	ppbv #	42
30) Cyclohexane	7.16	84	64200m	0.912	ppbv	
34) 2-Butanone	5.25	43	190881	1.345	ppbv	98
35) Carbon Tetrachloride	7.03	117	8563m	0.058	ppbv	
36) Benzene	6.91	78	616427	3.578	ppbv	96
38) Trichloroethene	7.87	130	45631	0.645	ppbv	89
41) Tetrahydrofuran	6.07	42	34063	0.428	ppbv	98
44) 2,2,4-Trimethylpentane	7.90	57	516761	1.641	ppbv #	84
52) Tetrachloroethene	11.27	164	16307m	0.219	ppbv	
53) Toluene	9.84	91	1752635	8.955	ppbv	99
58) Ethyl Benzene	12.76	91	506616	1.901	ppbv	94
59) m/p-Xylene	13.01	91	1436160	6.234	ppbv	100
60) o-Xylene	13.74	91	437500	1.921	ppbv	97
72) 4-Ethyltoluene	15.90	105	110459	0.420	ppbv	98
73) 1,3,5-Trimethylbenzene	16.06	105	92861	0.360	ppbv	88
74) 1,2,4-Trimethylbenzene	16.82	105	320108	1.170	ppbv #	66

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

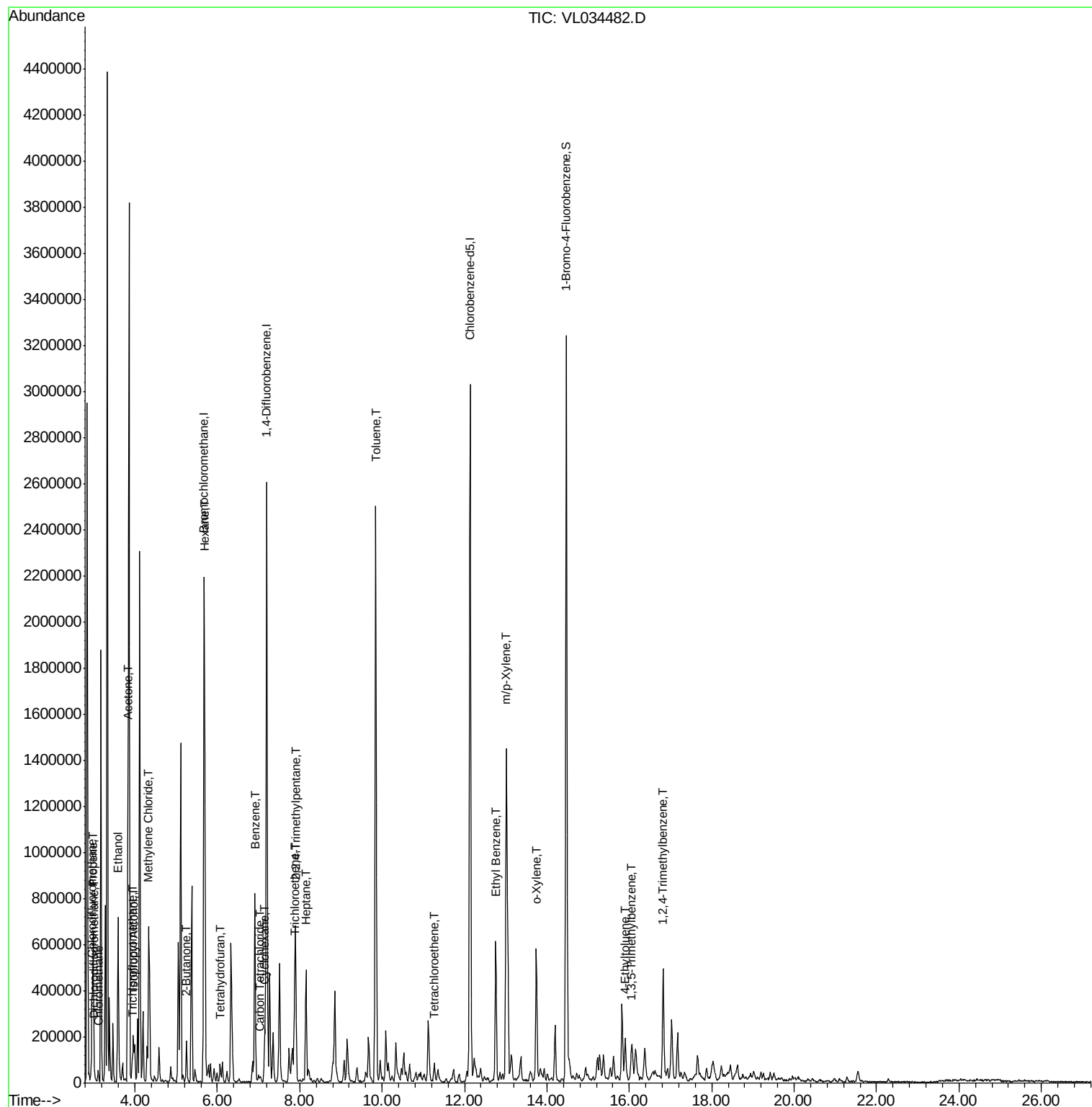
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120919\
Data File : VL034482.D
Acq On : 10 Dec 2019 2:47
Operator : SY/AP
Sample : K6181-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

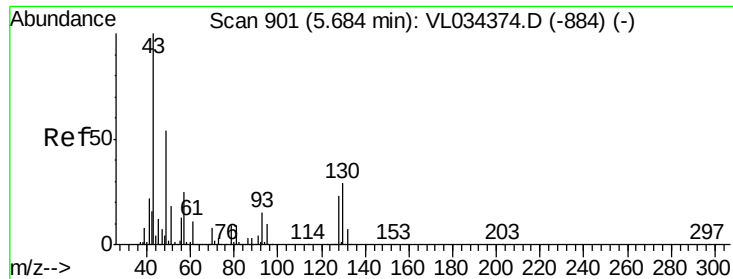
Instrument :
MSVOA_L
ClientSampleId :
1A-2

Manual Integrations
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Quant Time: Dec 11 11:47:34 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





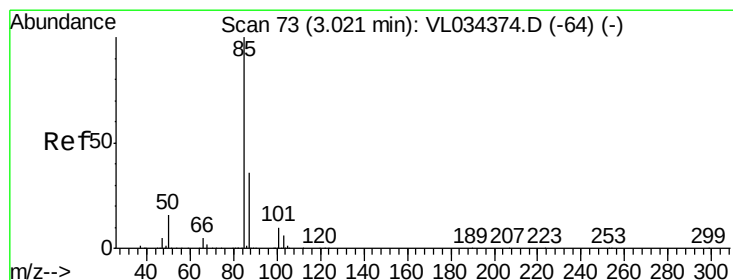
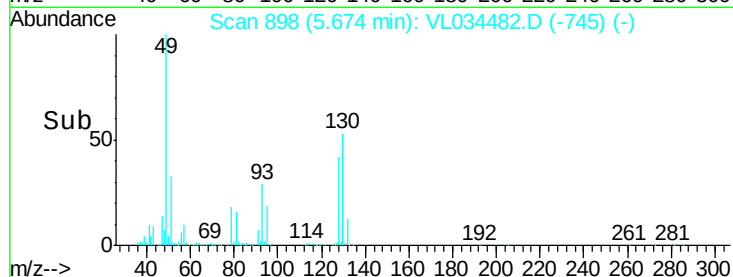
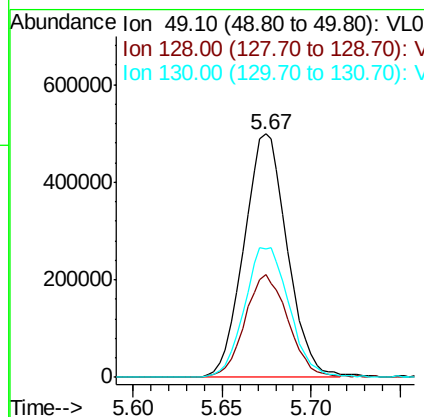
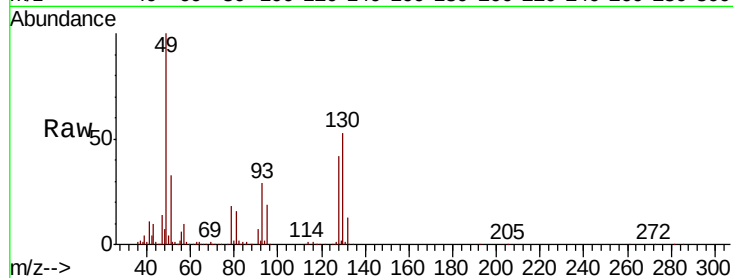
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampled :
1A-2

Tot Ion	Ratio	Lower	Upper
49	100		
128	42.5	21.8	65.3
130	55.7	28.0	84.0

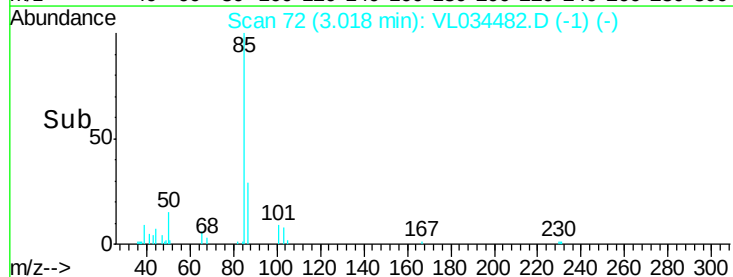
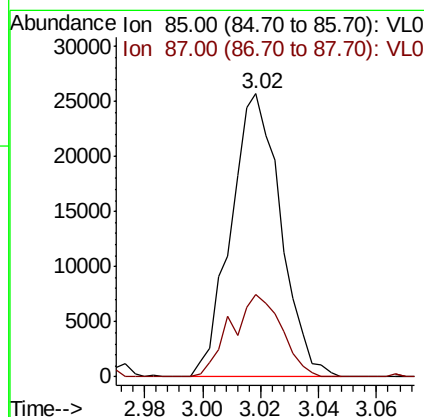
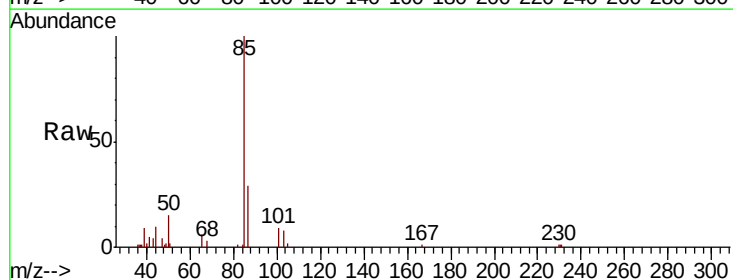
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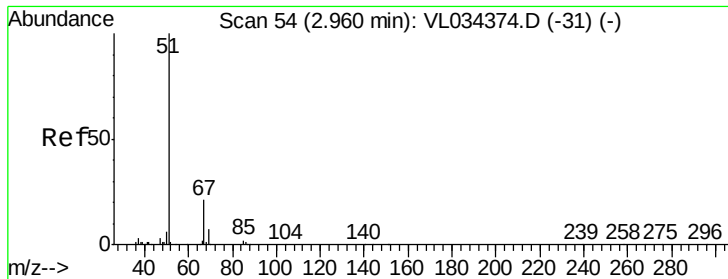
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#2
Dichlorodifluoromethane
Concen: 0.200 ppbv
RT: 3.02 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion	Ratio	Lower	Upper
85	100		
87	29.3	28.5	42.7





#3

Chlorodifluoromethane

Concen: 2.835 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.00 min

Lab File: VL034482.D

Acq: 10 Dec 2019 2:47

Instrument :

MSVOA_L

ClientSampled :

1A-2

Tot Ion: 51 Resp: 299803

Ion Ratio Lower Upper

51 100

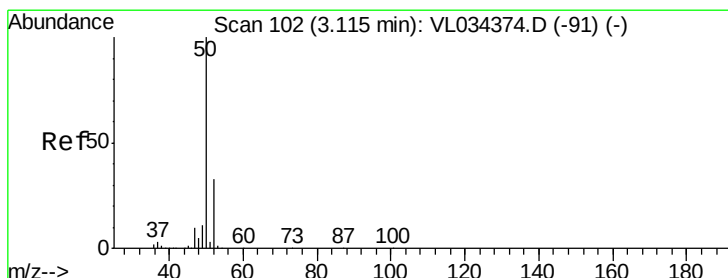
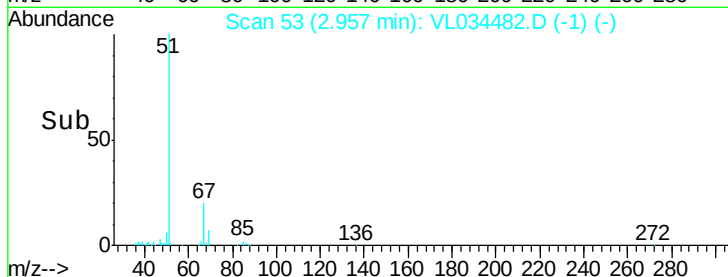
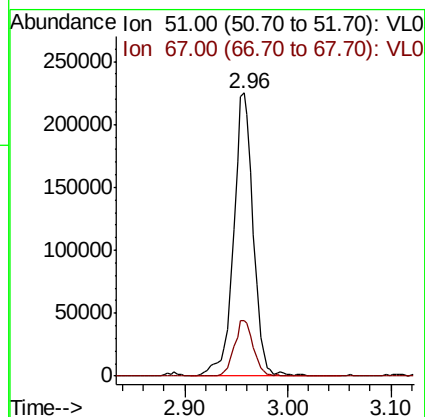
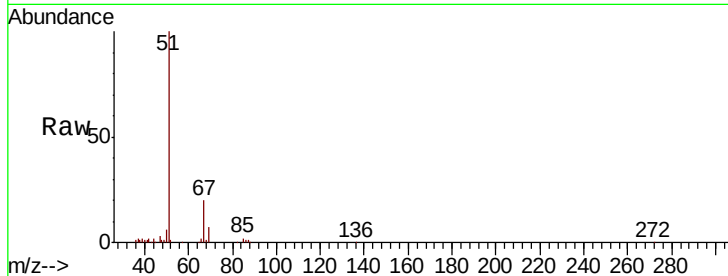
67 19.1 16.2 24.2

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#4

Chloromethane

Concen: 0.500 ppbv

RT: 3.11 min Scan# 100

Delta R.T. -0.01 min

Lab File: VL034482.D

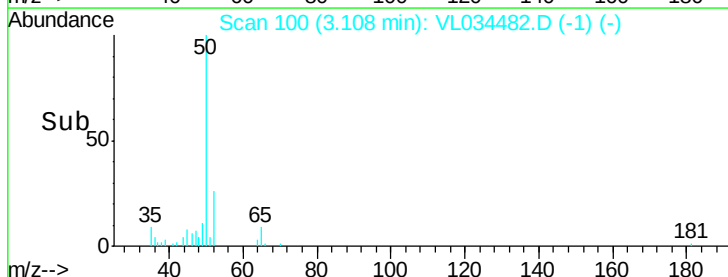
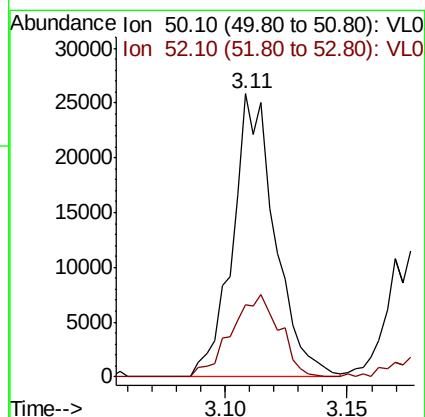
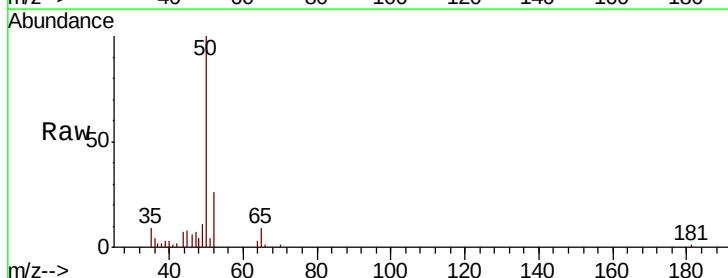
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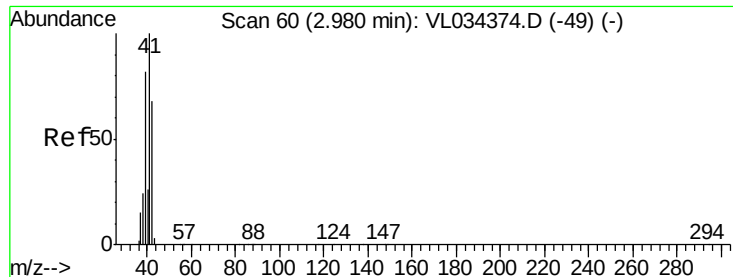
Tgt Ion: 50 Resp: 31192

Ion Ratio Lower Upper

50 100

52 25.5 26.8 40.2#





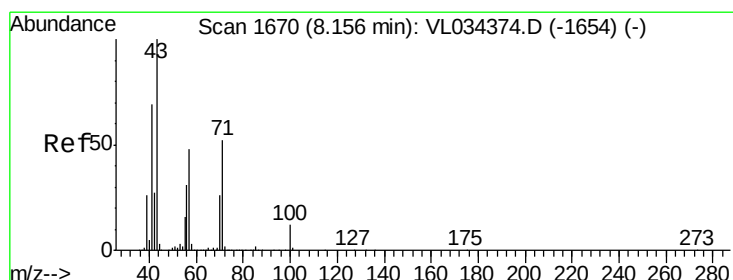
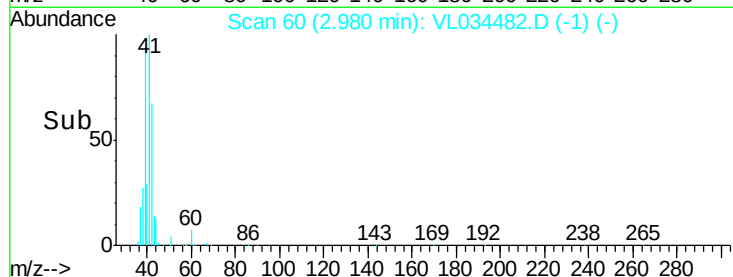
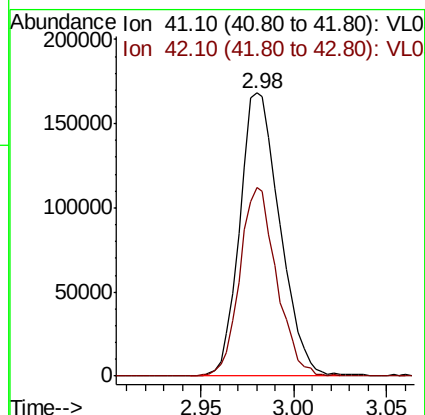
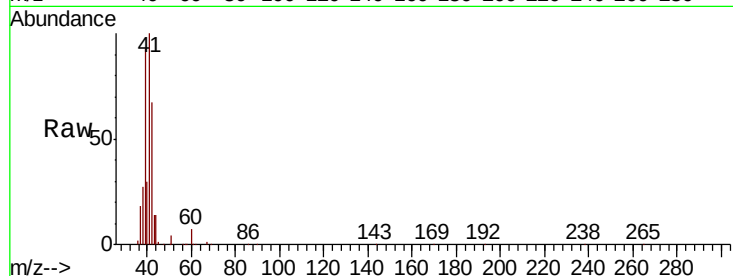
#9
 Propene
 Concen: 5.374 ppbv
 RT: 2.98 min Scan# 60
 Delta R.T. 0.00 min
 Lab File: VL034482.D
 Acq: 10 Dec 2019 2:47

Instrument :
 MSVOA_L
 ClientSampled :
 1A-2

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
42	61.5	54.6	82.0	

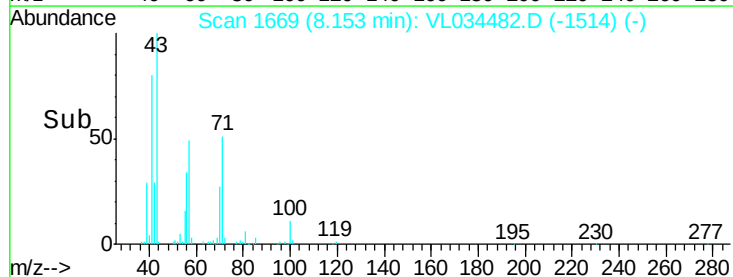
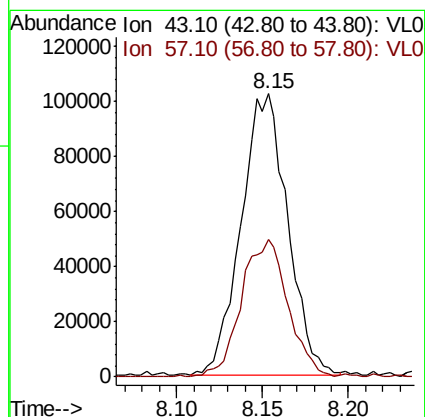
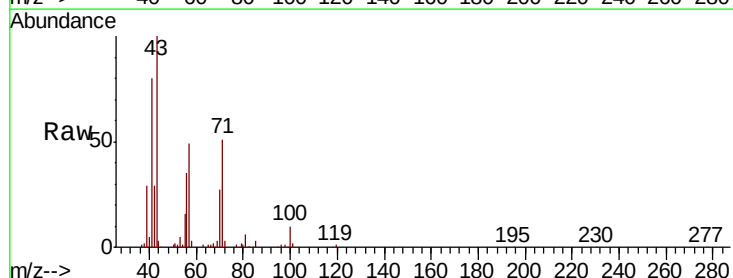
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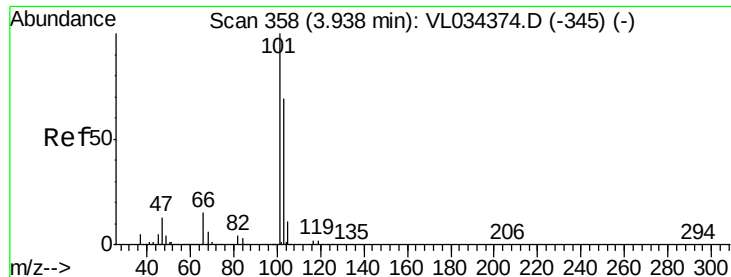
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#10
 Heptane
 Concen: 1.584 ppbv
 RT: 8.15 min Scan# 1669
 Delta R.T. -0.00 min
 Lab File: VL034482.D
 Acq: 10 Dec 2019 2:47

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
57	49.4	40.2	60.2	





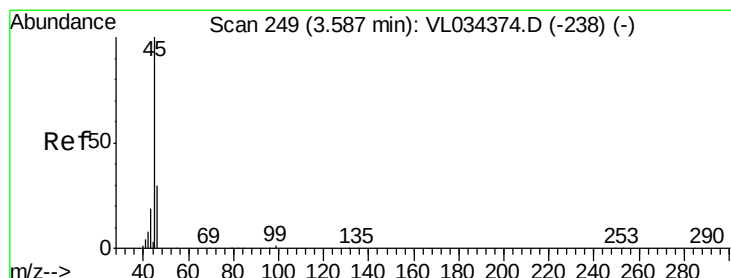
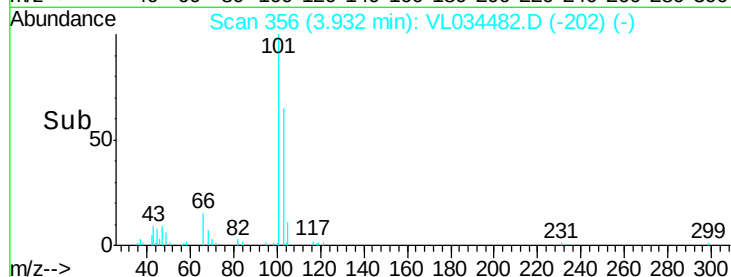
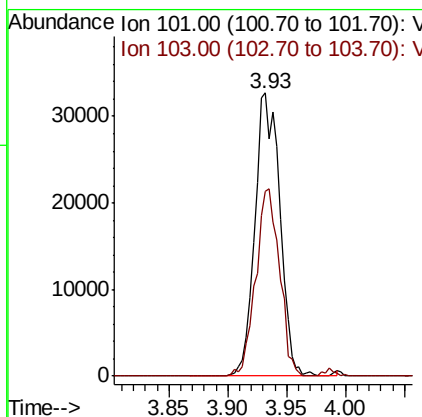
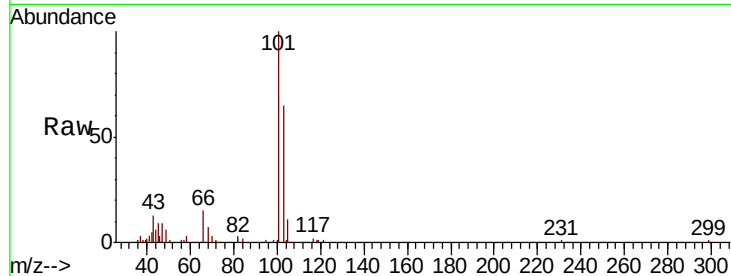
#11
Trichlorofluoromethane
Concen: 0.312 ppbv m
RT: 3.93 min Scan# 356
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampled :
1A-2

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.1	55.4	83.0

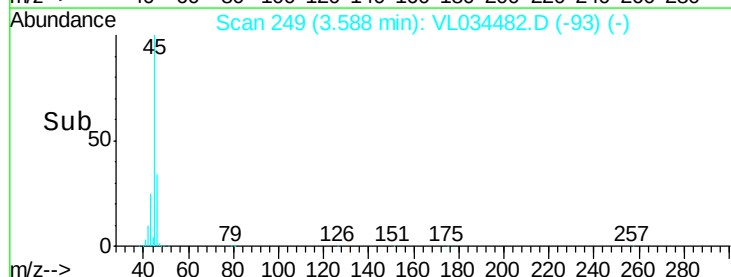
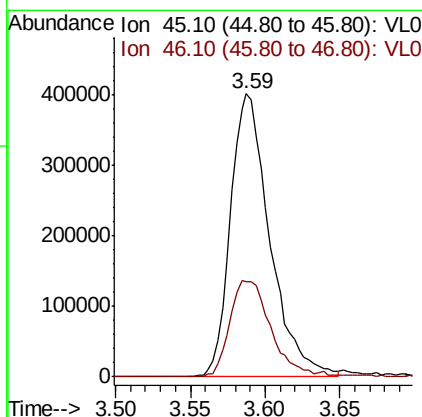
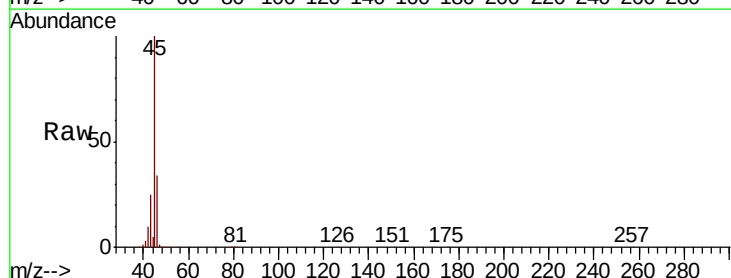
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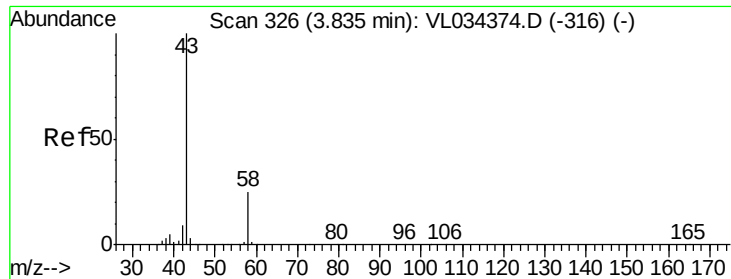
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#13
Ethanol
Concen: 56.139 ppbv
RT: 3.59 min Scan# 249
Delta R.T. 0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.3	13.8	55.4





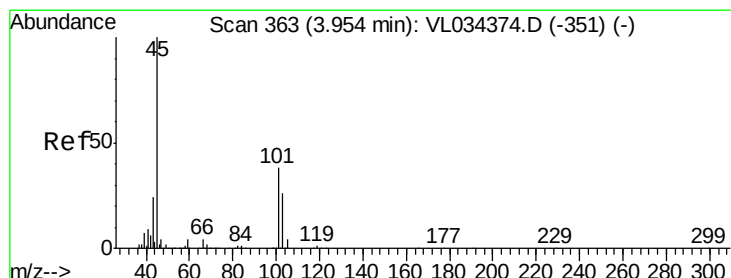
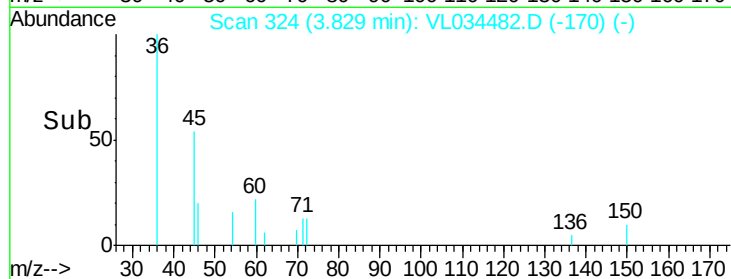
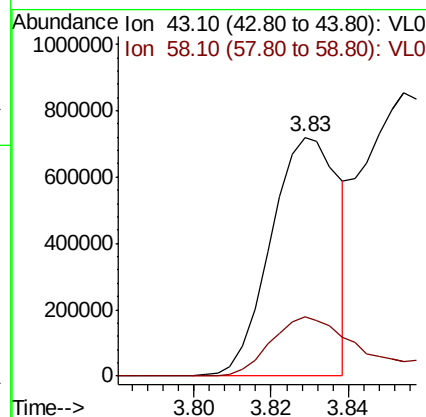
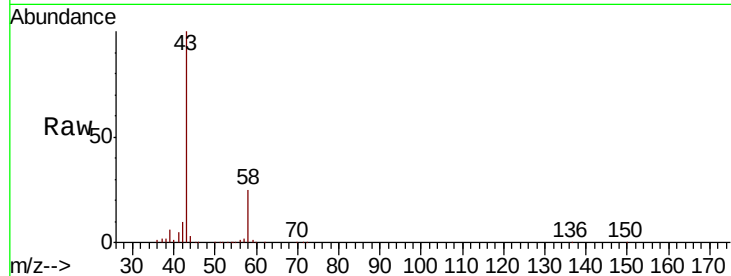
#15
Acetone
Concen: 7.246 ppbv
RT: 3.83 min Scan# 324
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tot Ion: 43 Resp: 879492
Ion Ratio Lower Upper
43 100
58 34.1 20.2 30.4#

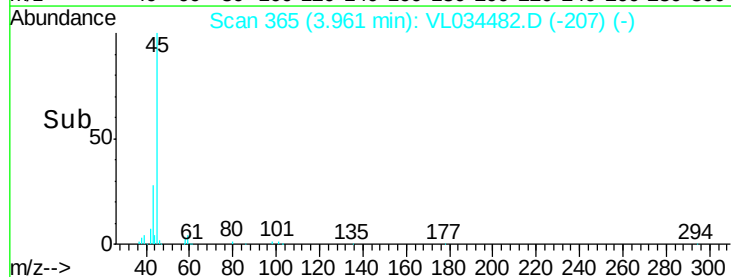
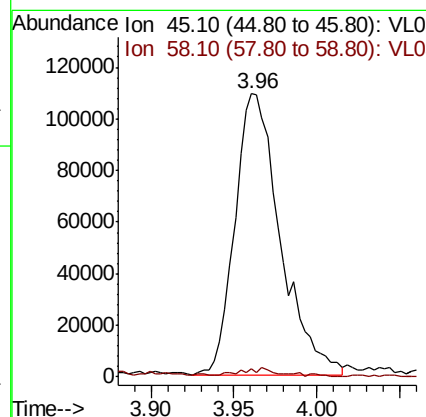
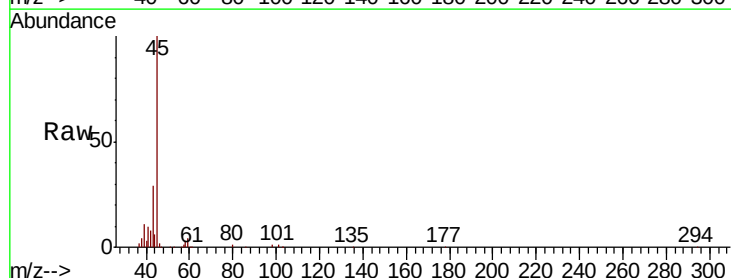
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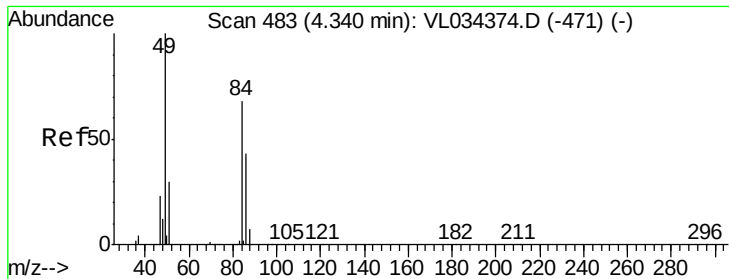
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#19
Isopropyl Alcohol
Concen: 2.666 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 45 Resp: 207397
Ion Ratio Lower Upper
45 100
58 145.8 1.3 1.9#





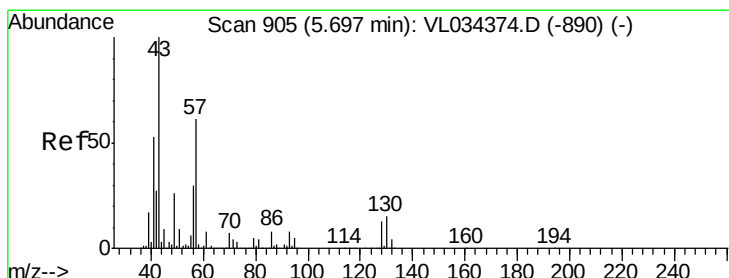
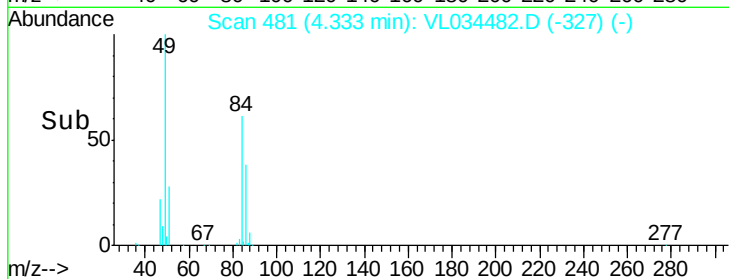
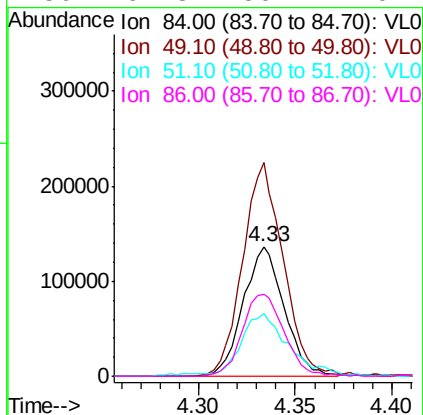
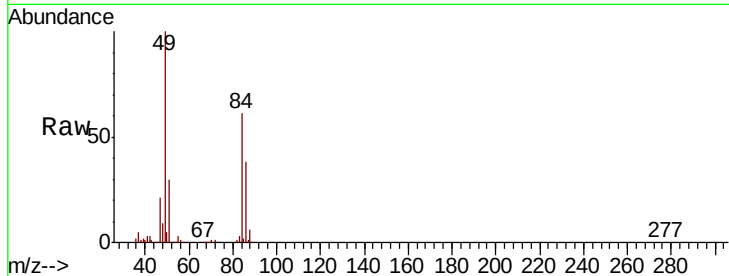
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Methvlene Chloride
Concen: 4.632 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampled :
1A-2

Tot Ion:	84	Resp:	199390
Ion	Ratio	Lower	Upper
84	100		
49	164.2	116.8	175.2
51	47.1	35.6	53.4
86	62.8	50.7	76.1

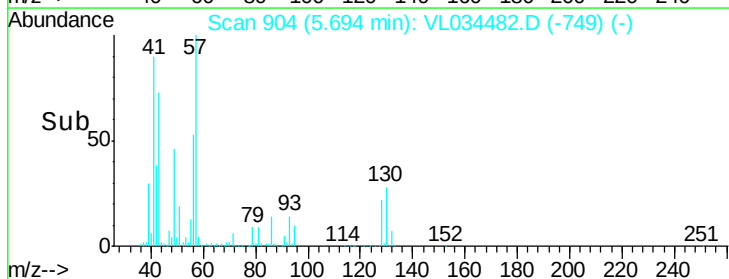
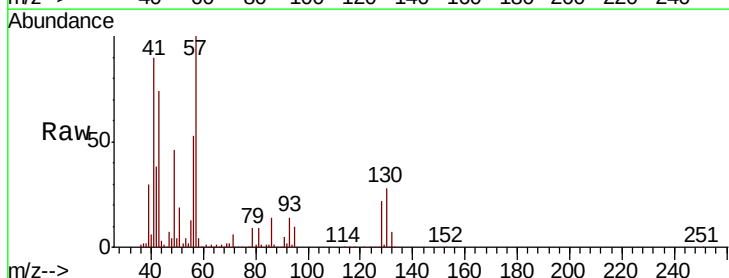
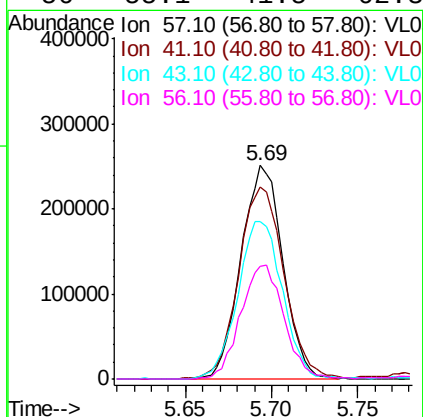
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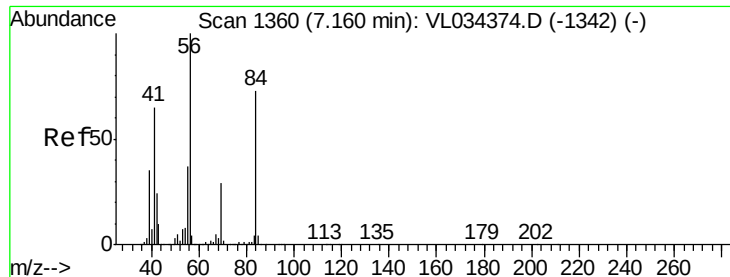
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#26
Hexane
Concen: 4.552 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion:	57	Resp:	423633
Ion	Ratio	Lower	Upper
57	100		
41	97.6	75.0	112.4
43	79.4	186.6	279.8
56	55.1	41.5	62.3





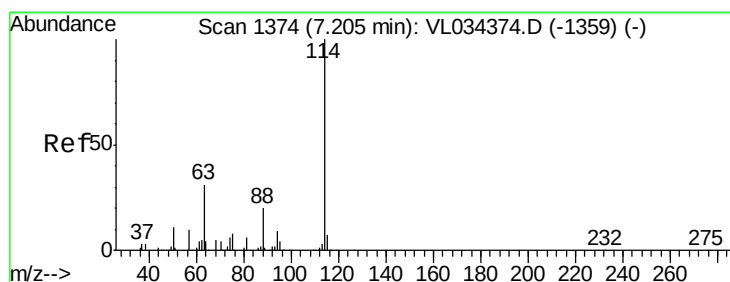
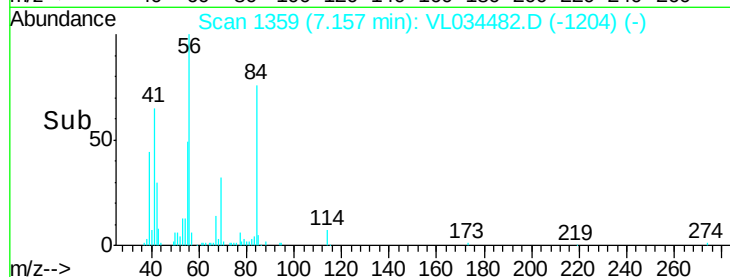
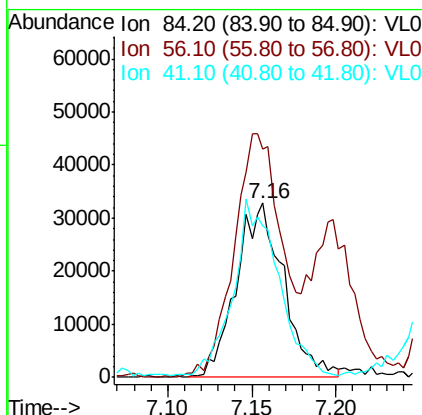
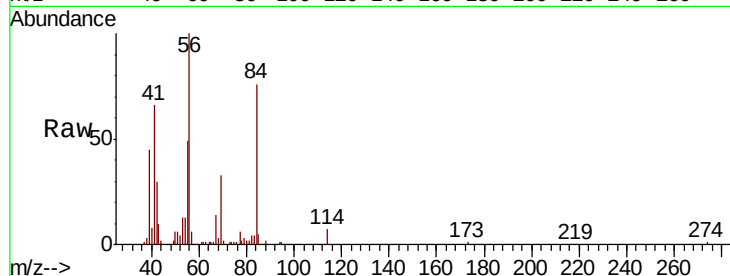
#30
Cyclohexane
Concen: 0.912 ppbv m
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampled :
1A-2

Tot Ion	Ratio	Lower	Upper
84	100		
56	141.9	112.6	169.0
41	98.8	73.4	110.2

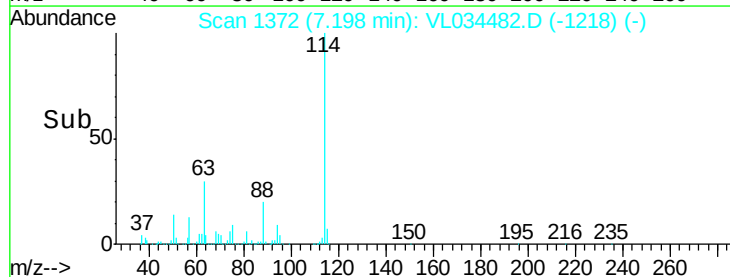
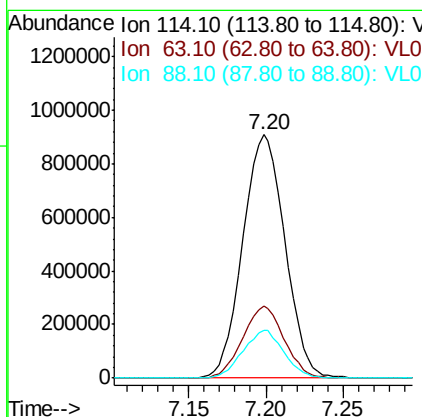
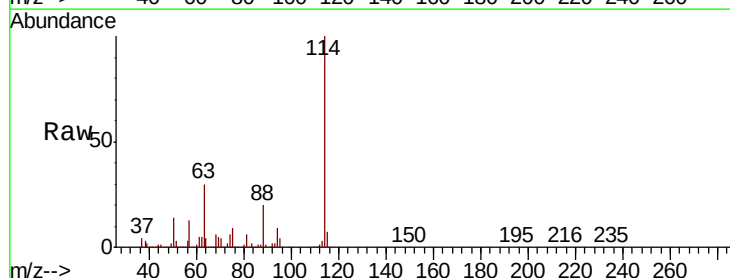
Manual Integrations
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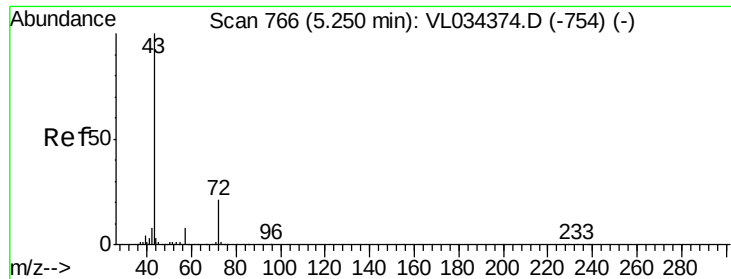
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.4	24.2	36.4
88	19.3	15.9	23.9





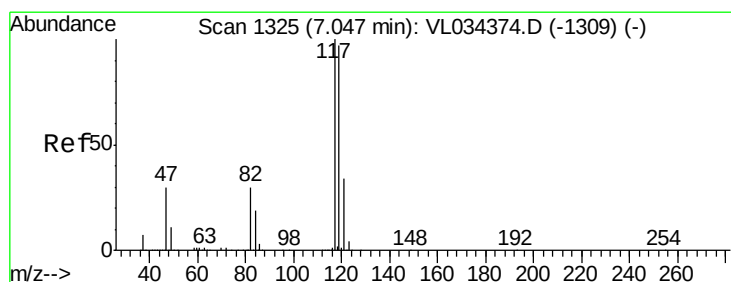
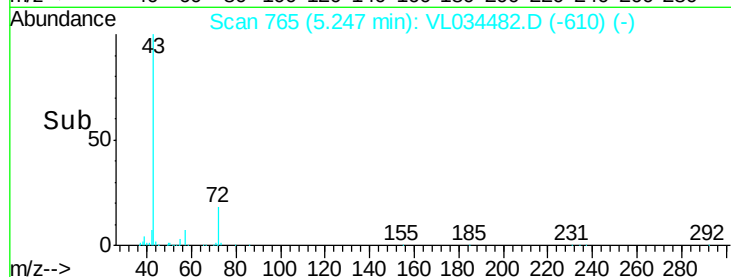
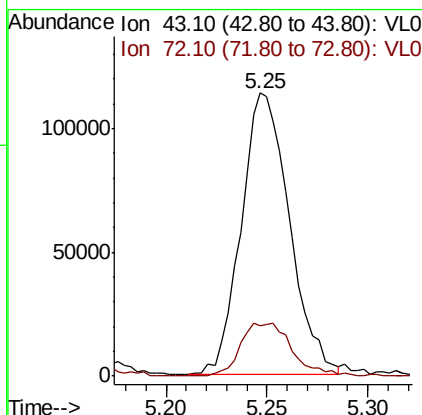
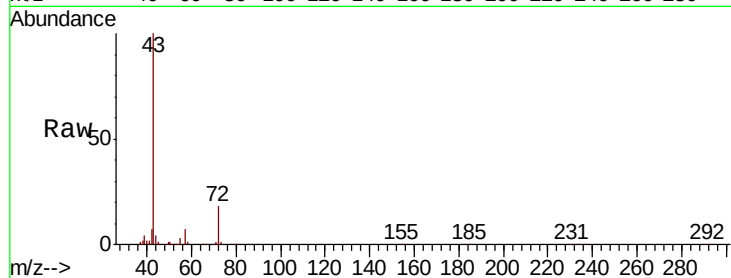
#34
2-Butanone
Concen: 1.345 ppbv
RT: 5.25 min Scan# 765
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampled :
1A-2

Tot Ion	43.10 (42.80 to 43.80): VL0	Resp	190881
Ion	Ratio	Lower	Upper
43	100		
72	20.2	17.0	25.6

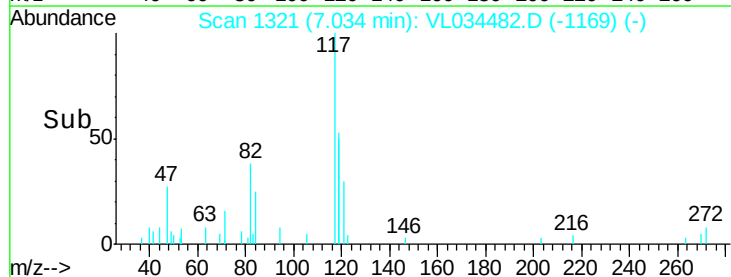
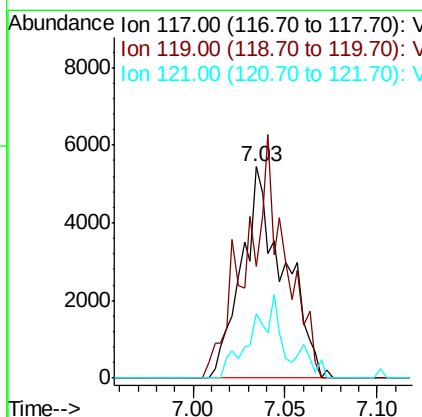
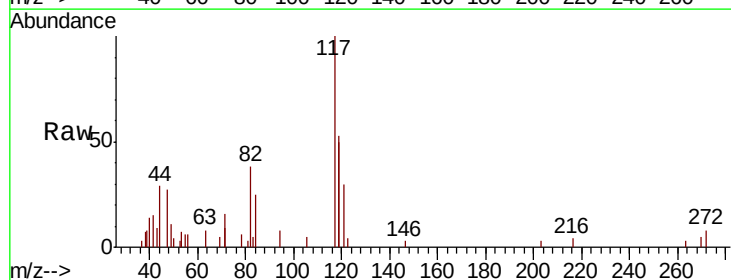
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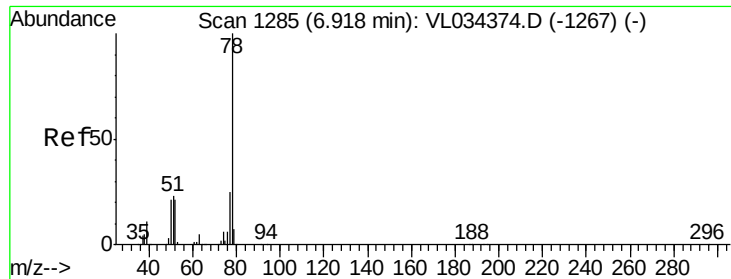
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#35
Carbon Tetrachloride
Concen: 0.058 ppbv m
RT: 7.03 min Scan# 1321
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion	117.00 (116.70 to 117.70): V	Resp	8563
Ion	Ratio	Lower	Upper
117	100		
119	53.1	77.3	115.9#
121	30.2	27.4	41.2





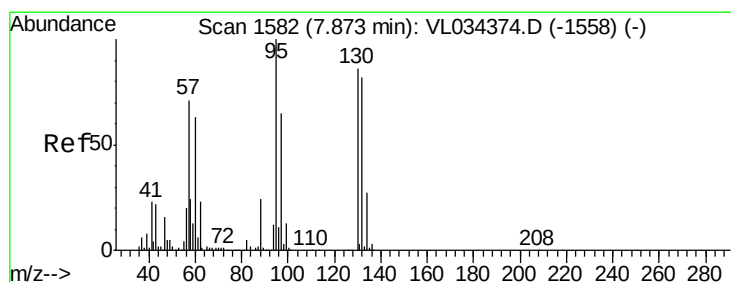
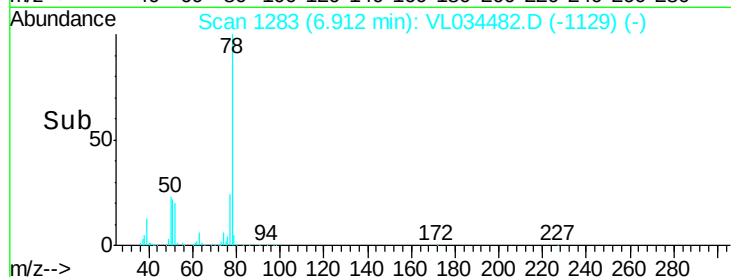
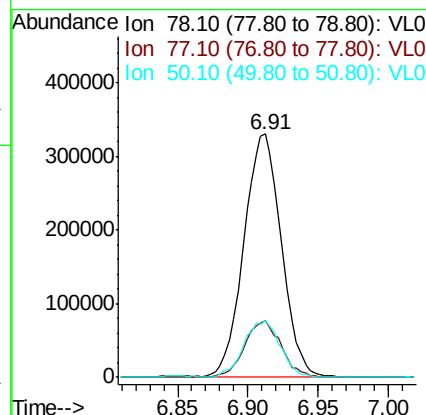
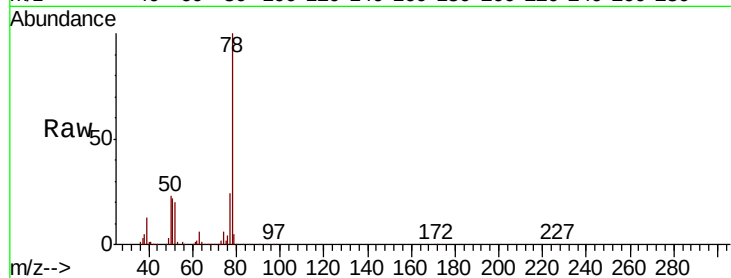
#36
Benzene
Concen: 3.578 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampled :
1A-2

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.5	20.2	30.4
50	23.4	17.1	25.7

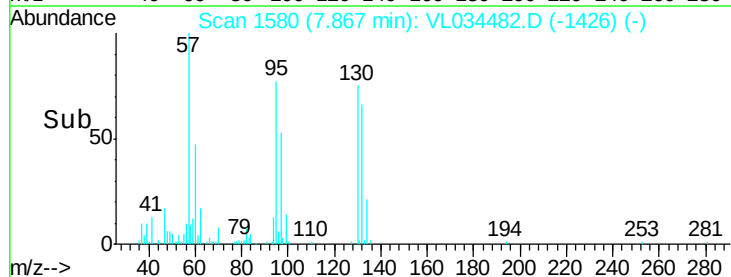
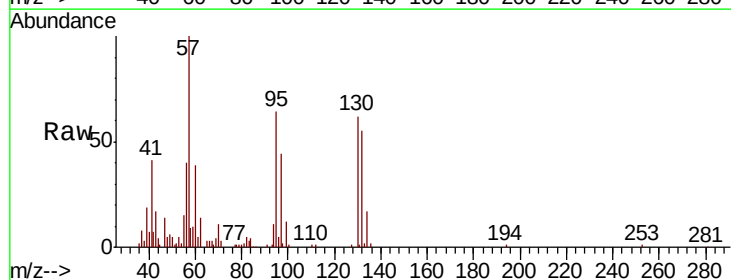
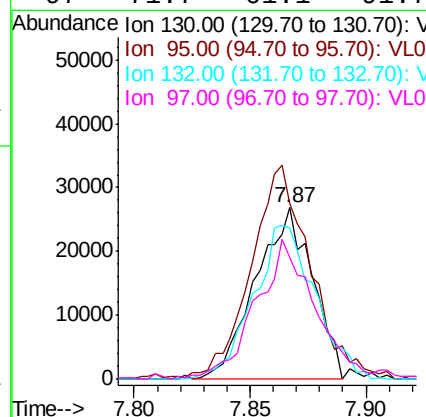
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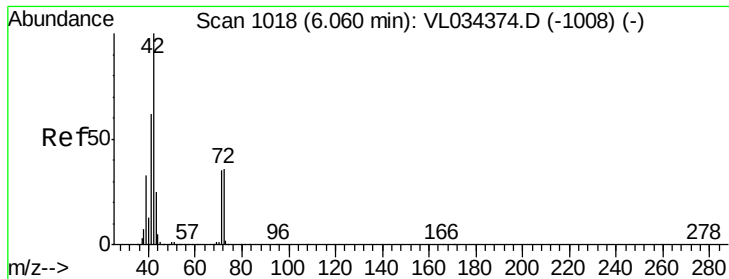
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#38
Trichloroethene
Concen: 0.645 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.1	93.4	140.0
132	87.2	76.4	114.6
97	71.7	61.1	91.7





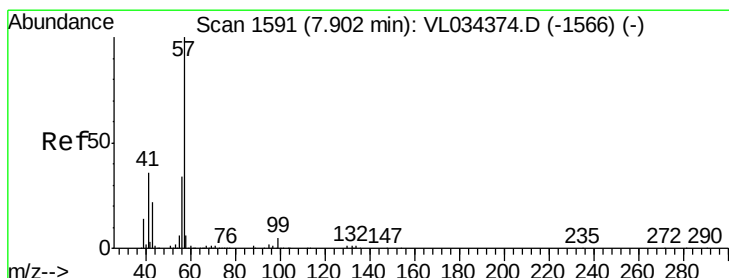
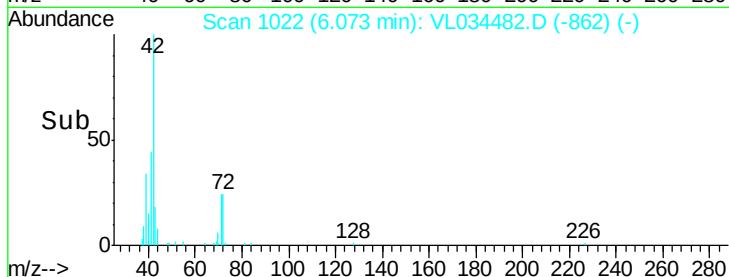
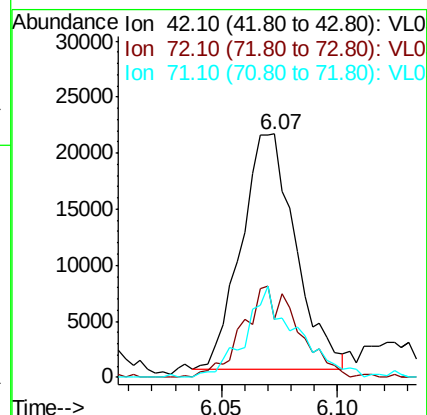
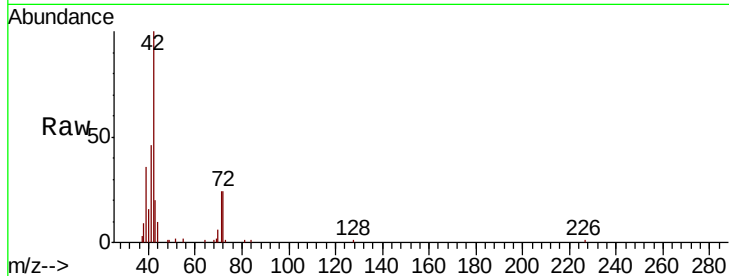
#41
Tetrahydrofuran
Concen: 0.428 ppbv
RT: 6.07 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampled :
1A-2

Tot Ion:	42	Resp:	34063
Ion Ratio	Lower	Upper	
42	100		
72	39.8	30.2	45.4
71	37.3	29.4	44.2

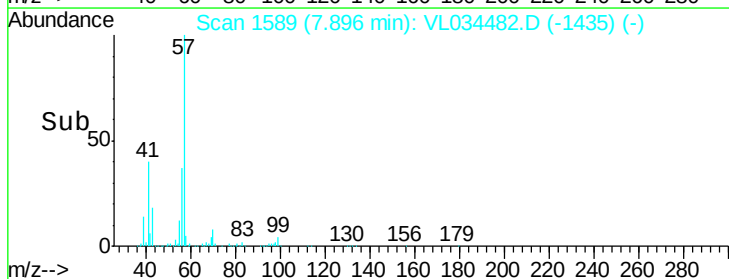
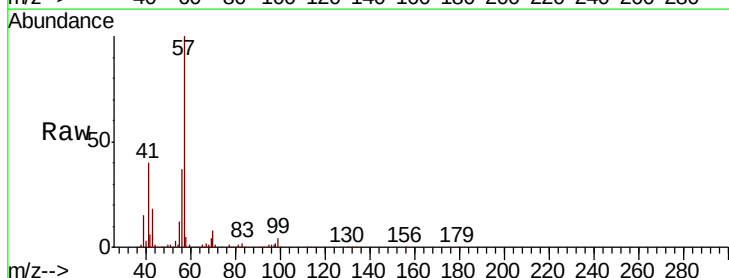
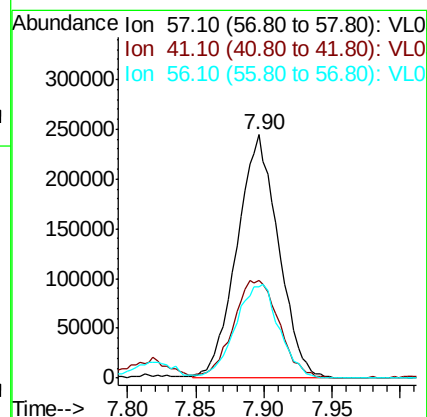
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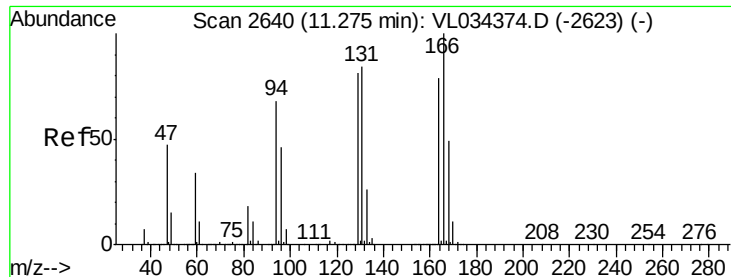
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#44
2,2,4-Trimethylpentane
Concen: 1.641 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion:	57	Resp:	516761
Ion Ratio	Lower	Upper	
57	100		
41	44.6	28.6	42.8#
56	40.8	25.3	37.9#





#52

Tetrachloroethene

Concen: 0.219 ppbv m

RT: 11.27 min Scan# 2638

Delta R.T. -0.01 min

Lab File: VL034482.D

Acq: 10 Dec 2019 2:47

Instrument :

MSVOA_L

ClientSampled :

1A-2

Tot Ion:164 Resp: 16307
Ion Ratio Lower Upper

164 100

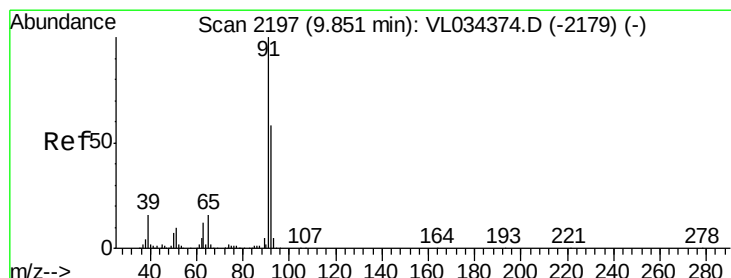
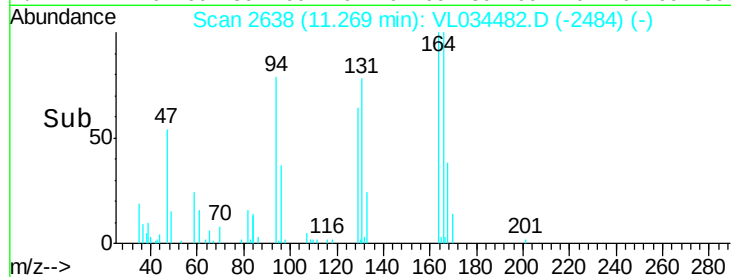
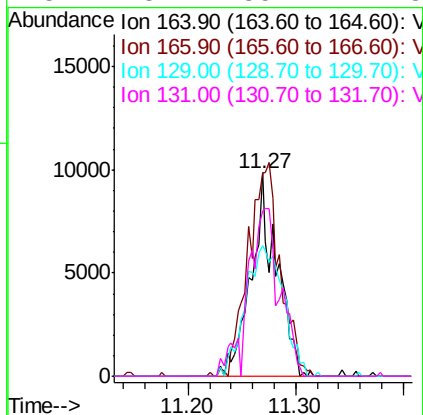
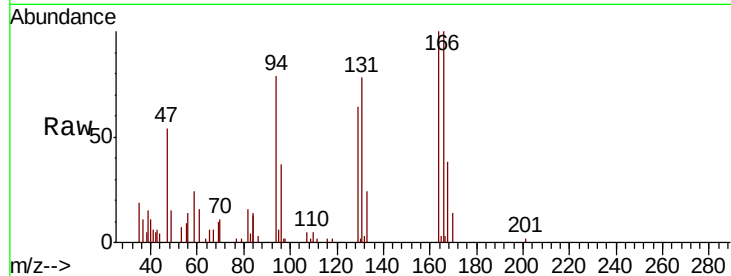
166 99.9 101.7 152.5#

129 63.9 82.6 123.8#

131 78.4 85.2 127.8#

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#53

Toluene

Concen: 8.955 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL034482.D

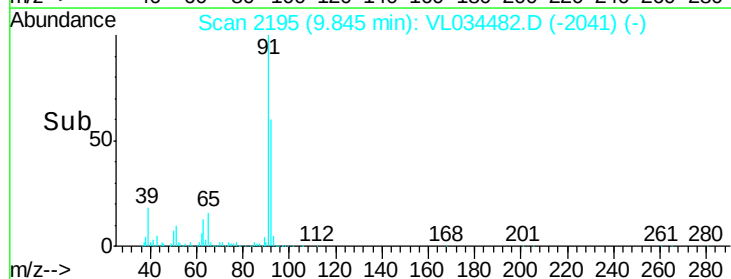
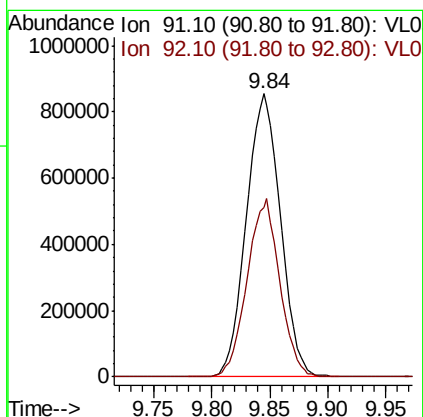
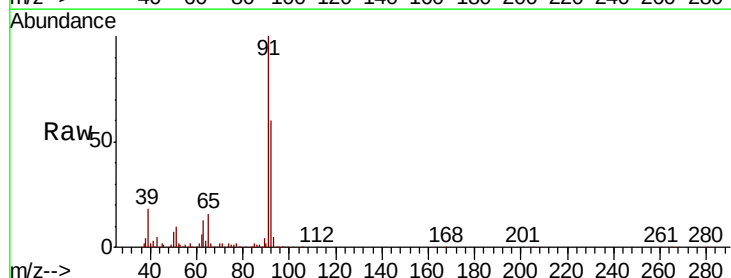
Acq: 10 Dec 2019 2:47

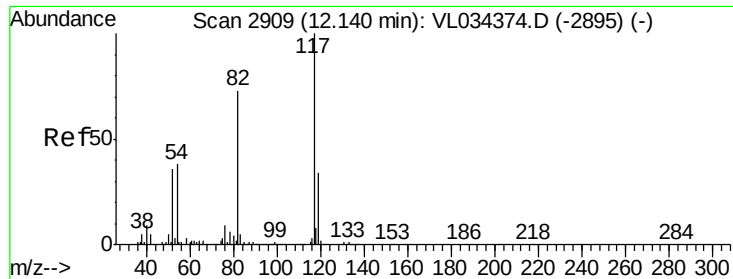
Tgt Ion: 91 Resp: 1752635

Ion Ratio Lower Upper

91 100

92 60.3 47.9 71.9





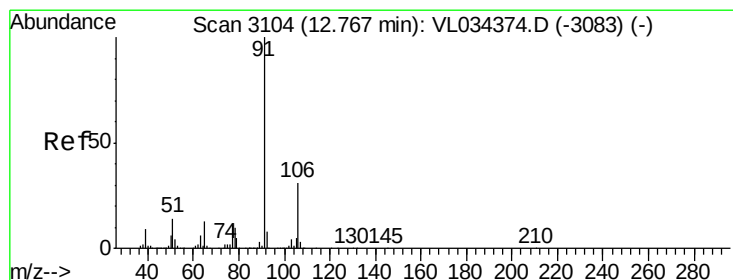
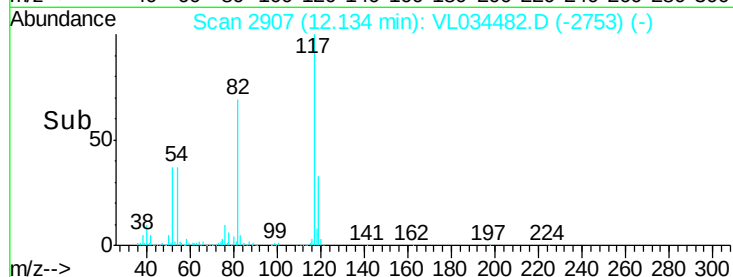
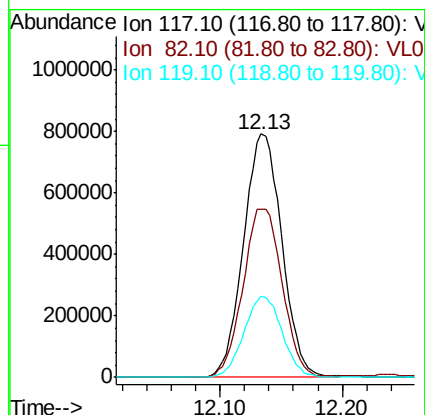
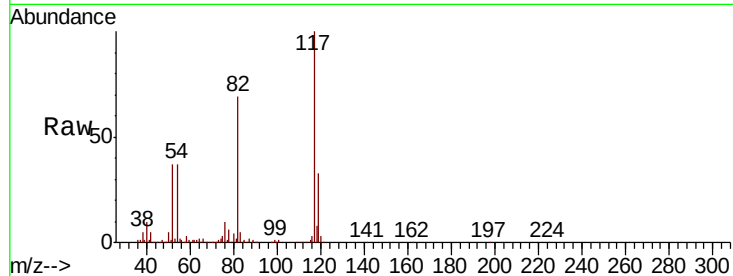
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.1	57.5	86.3
119	33.4	25.4	38.2

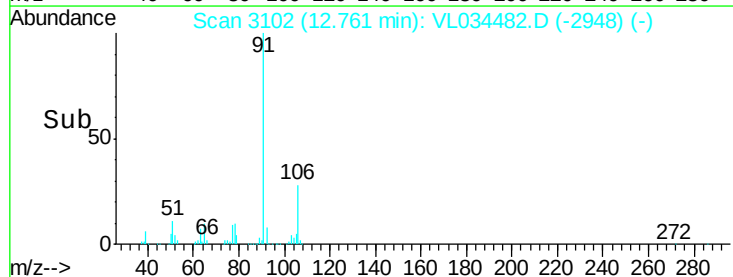
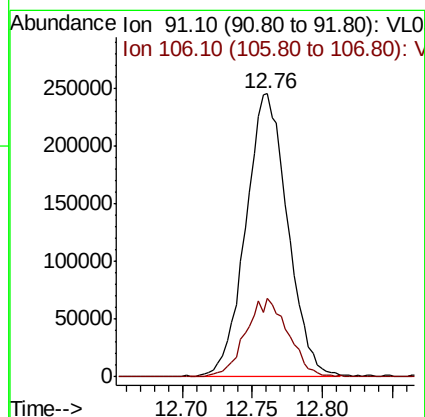
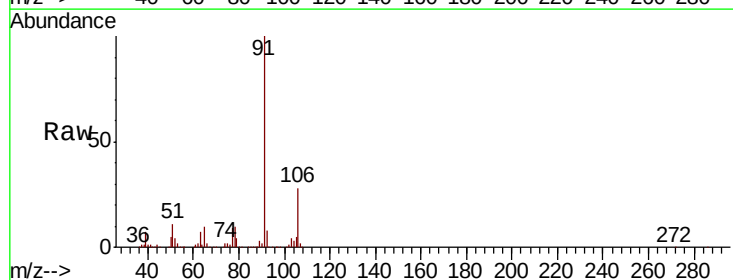
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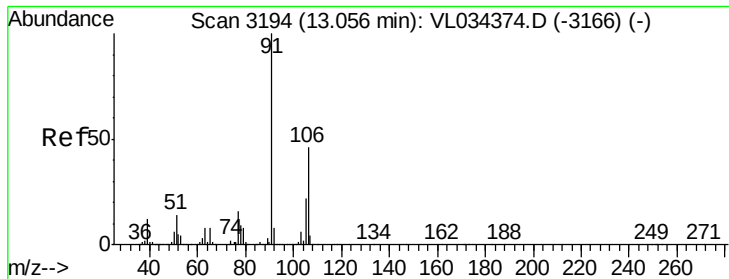
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#58
Ethyl Benzene
Concen: 1.901 ppbv
RT: 12.76 min Scan# 3102
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.0	24.8	37.2





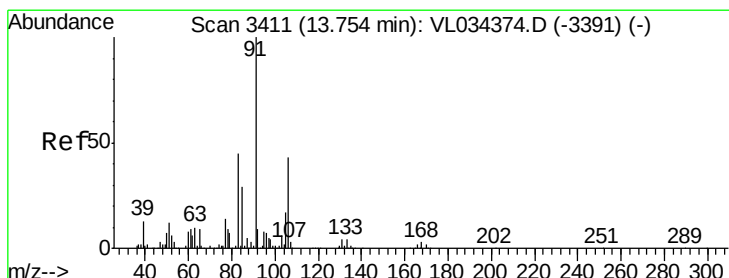
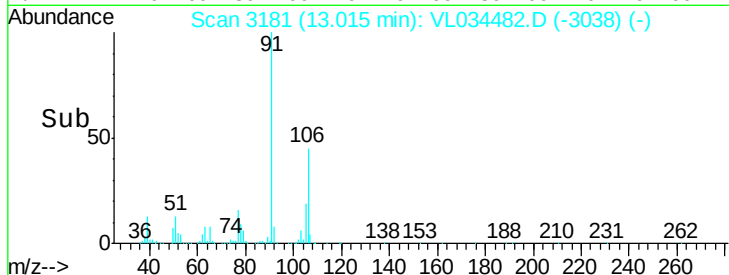
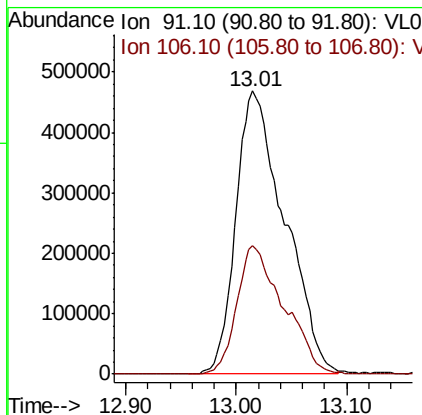
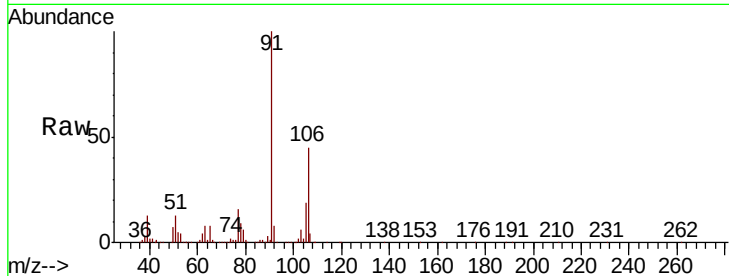
#59
m/p-Xylene
Concen: 6.234 ppbv
RT: 13.01 min Scan# 3181
Delta R.T. -0.04 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampled :
1A-2

Tot Ion: 91 Resp: 1436160
Ion Ratio Lower Upper
91 100
106 43.5 34.6 51.8

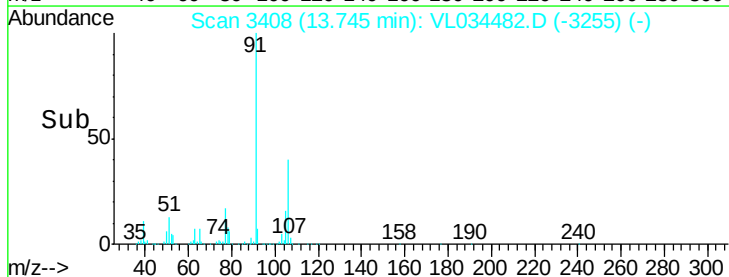
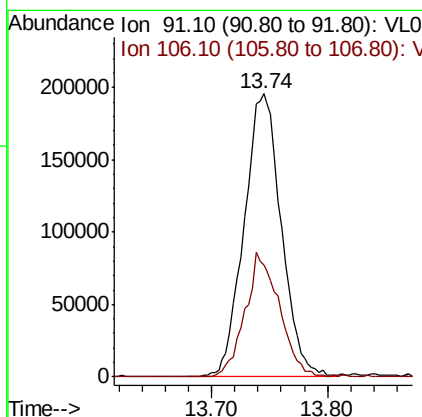
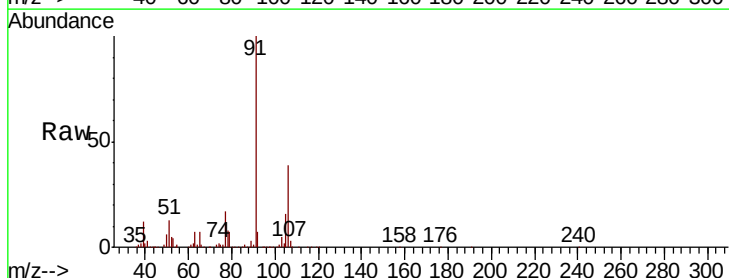
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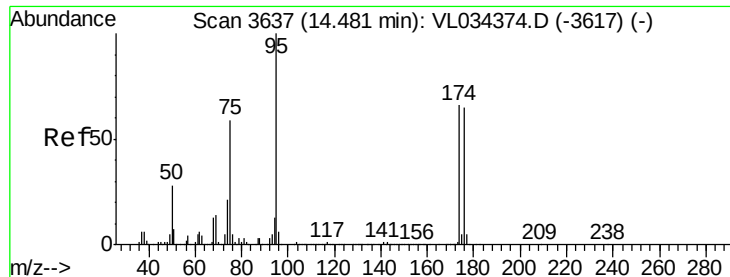
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#60
o-Xylene
Concen: 1.921 ppbv
RT: 13.74 min Scan# 3408
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 91 Resp: 437500
Ion Ratio Lower Upper
91 100
106 40.5 21.3 64.0





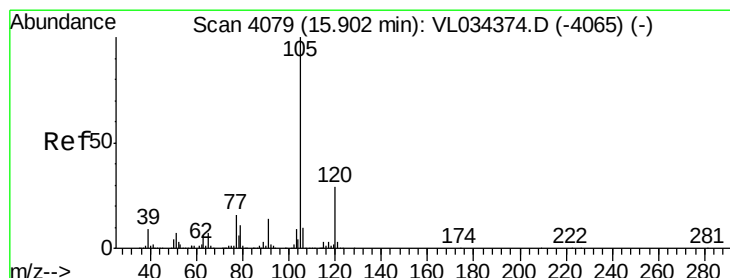
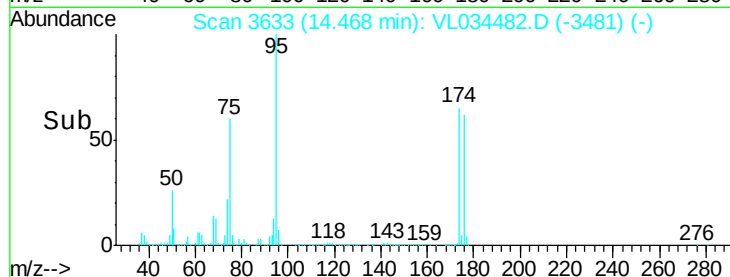
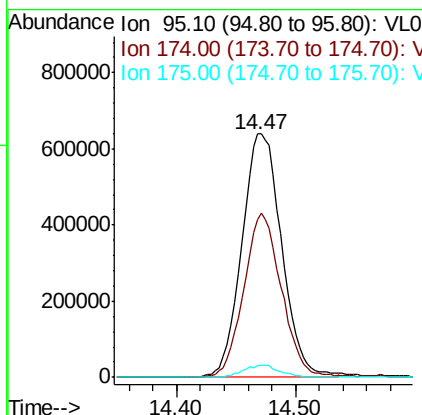
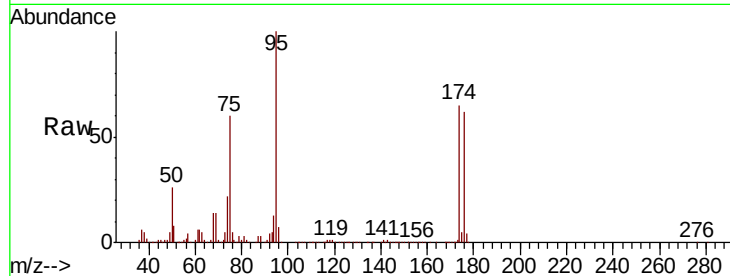
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.240 ppbv
 RT: 14.47 min Scan# 3633
 Delta R.T. -0.01 min
 Lab File: VL034482.D
 Acq: 10 Dec 2019 2:47

Instrument :
 MSVOA_L
 ClientSampled :
 1A-2

Tot Ion: 95 Resp: 1479486
 Ion Ratio Lower Upper
 95 100
 174 64.2 52.2 78.2
 175 4.6 3.8 5.8

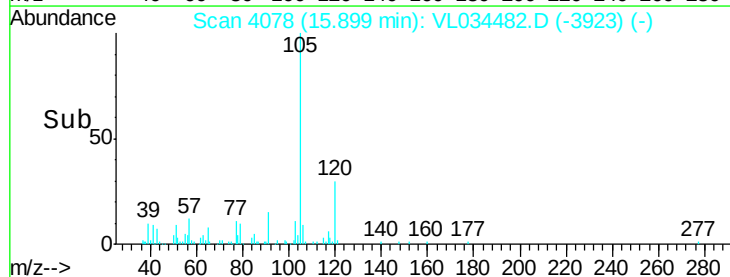
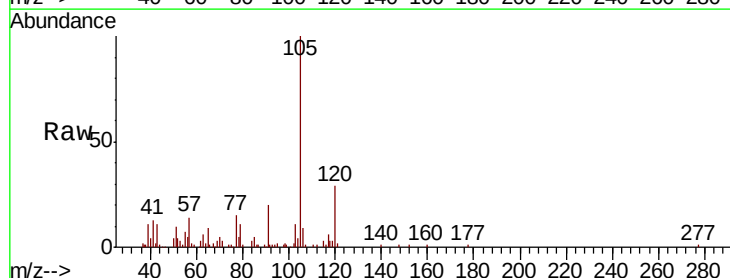
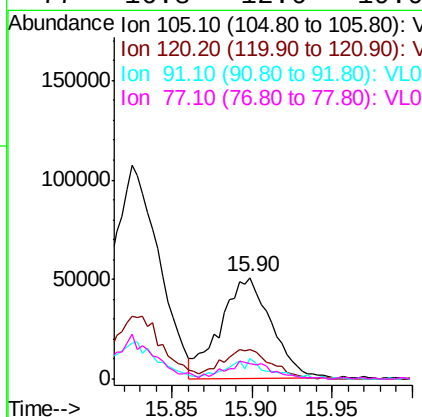
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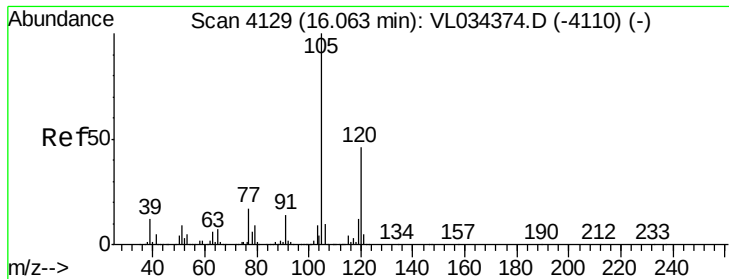
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#72
 4-Ethyltoluene
 Concen: 0.420 ppbv
 RT: 15.90 min Scan# 4078
 Delta R.T. -0.00 min
 Lab File: VL034482.D
 Acq: 10 Dec 2019 2:47

Tgt Ion: 105 Resp: 110459
 Ion Ratio Lower Upper
 105 100
 120 29.1 23.5 35.3
 91 16.6 11.4 17.0
 77 16.8 12.6 19.0





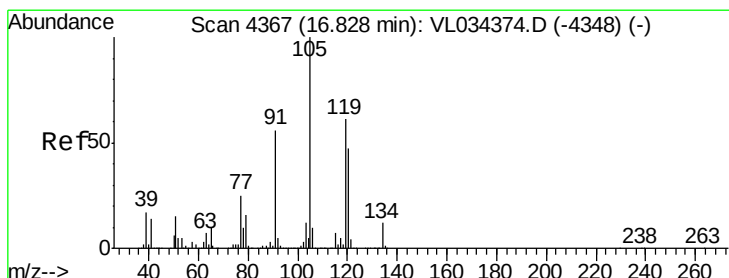
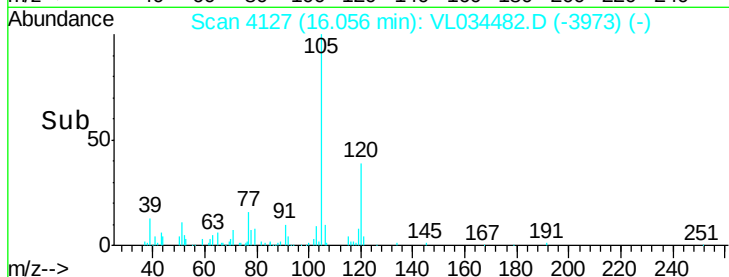
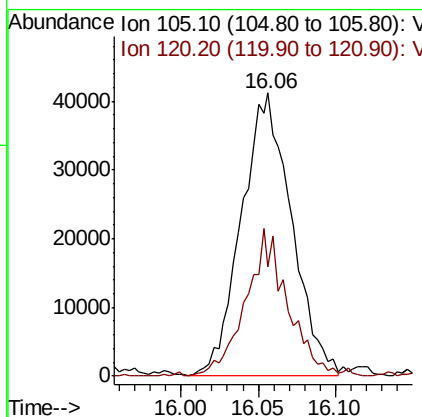
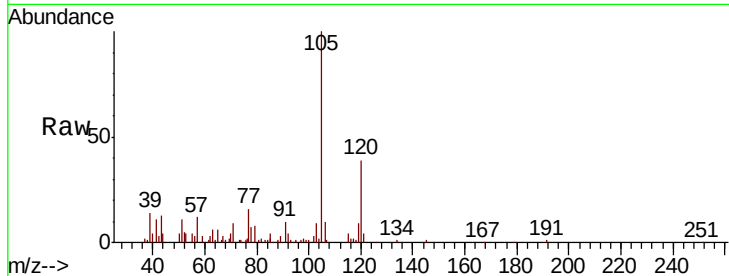
#73
 1,3,5-Trimethylbenzene
 Concen: 0.360 ppbv
 RT: 16.06 min Scan# 4127
 Delta R.T. -0.01 min
 Lab File: VL034482.D
 Acq: 10 Dec 2019 2:47

Instrument :
 MSVOA_L
 ClientSampled :
 1A-2

Tot Ion	Ratio	Lower	Upper
105	100		
120	38.2	37.1	55.7

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 1.170 ppbv
 RT: 16.82 min Scan# 4365
 Delta R.T. -0.01 min
 Lab File: VL034482.D
 Acq: 10 Dec 2019 2:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.8	37.4	56.0
91	11.3	46.3	69.5#
77	16.0	20.6	30.8#

