

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034529.D
 Acq On : 31 Dec 2019 2:27
 Operator : SY/AP
 Sample : K6470-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 27-1

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Quant Time: Jan 01 12:57:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 3
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	884069	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1815433	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1781790	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1503480	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	88189	0.633	ppbv	99
3) Chlorodifluoromethane	2.95	51	49373m	0.469	ppbv	
4) Chloromethane	3.11	50	42395	0.678	ppbv	88
9) Propene	2.99	41	95651m	2.355	ppbv	
10) Heptane	8.15	43	34713m	0.331	ppbv	
11) Trichlorofluoromethane	3.93	101	39117	0.242	ppbv	84
13) Ethanol	3.59	45	344852	30.605	ppbv	98
15) Acetone	3.83	43	1145482m	8.878	ppbv	
19) Isopropyl Alcohol	3.96	45	120948m	1.448	ppbv	
20) Methylene Chloride	4.33	84	27683	0.545	ppbv	84
26) Hexane	5.69	57	74000	0.872	ppbv #	44
30) Cyclohexane	7.15	84	20580m	0.326	ppbv	
34) 2-Butanone	5.25	43	73774	0.569	ppbv	97
35) Carbon Tetrachloride	7.04	117	10857m	0.066	ppbv	
36) Benzene	6.91	78	102943	0.651	ppbv #	90
44) 2,2,4-Trimethylpentane	7.89	57	152472	0.521	ppbv #	82
52) Tetrachloroethene	11.28	164	3129m	0.051	ppbv	
53) Toluene	9.85	91	196915m	1.133	ppbv	
58) Ethyl Benzene	12.75	91	36709m	0.153	ppbv	
59) m/p-Xylene	13.02	91	123687m	0.589	ppbv	
60) o-Xylene	13.74	91	31885m	0.151	ppbv	
74) 1,2,4-Trimethylbenzene	16.82	105	27375	0.111	ppbv #	71

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

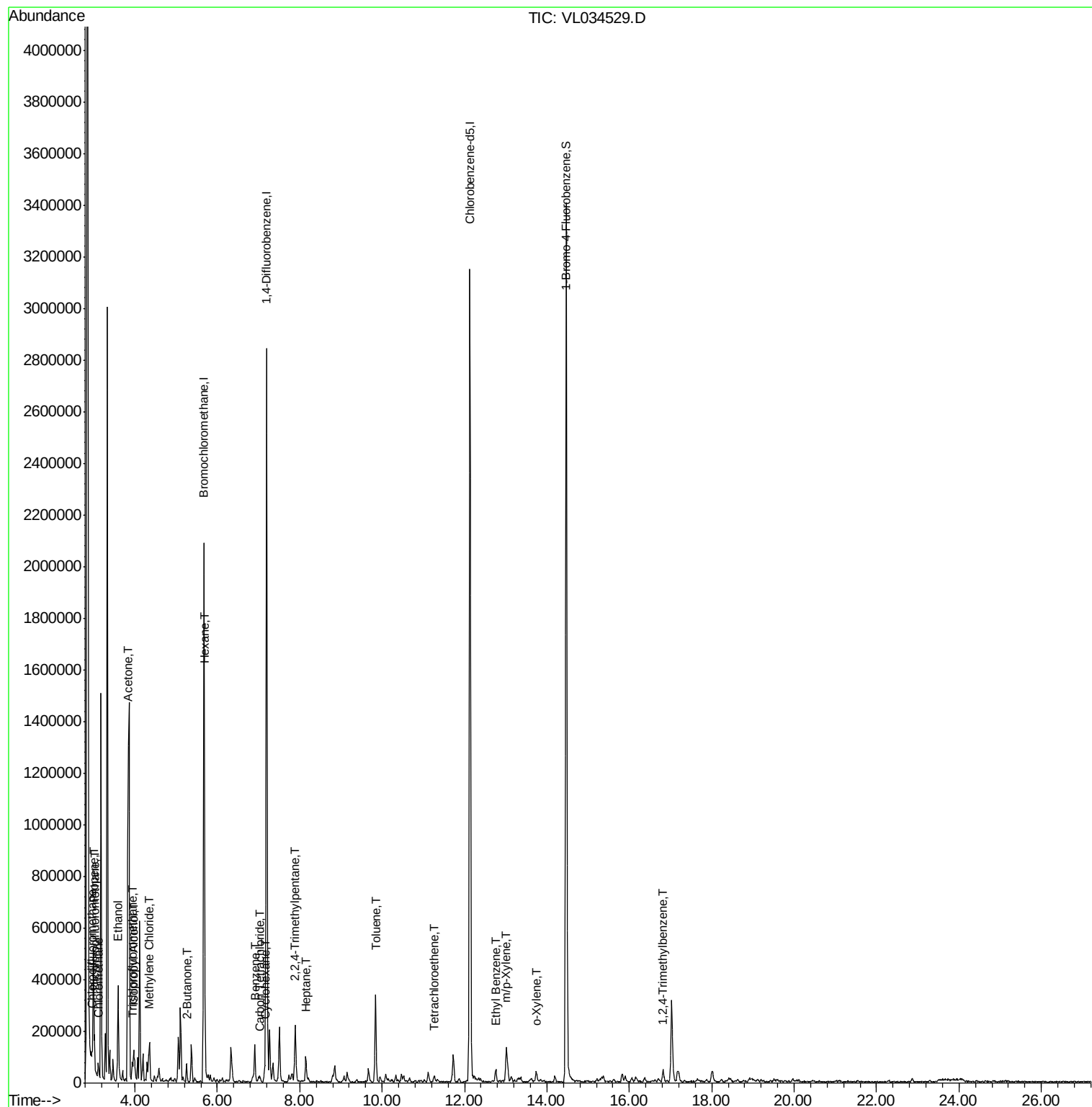
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL123019\
Data File : VL034529.D
Acq On : 31 Dec 2019 2:27
Operator : SY/AP
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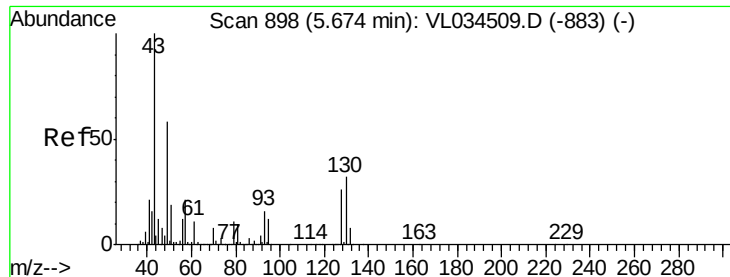
Instrument :
MSVOA_L
ClientSampleId :
27-1

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Quant Time: Jan 01 12:57:43 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034529.D

Acq: 31 Dec 2019 2:27

Instrument :

MSVOA_L

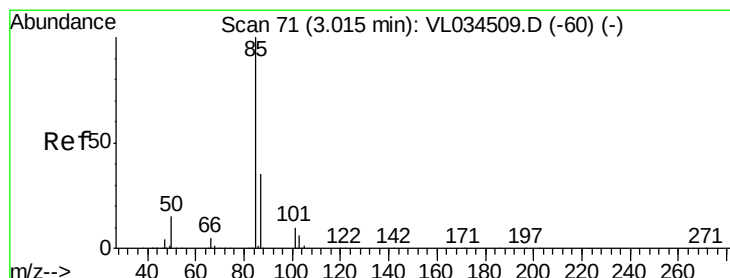
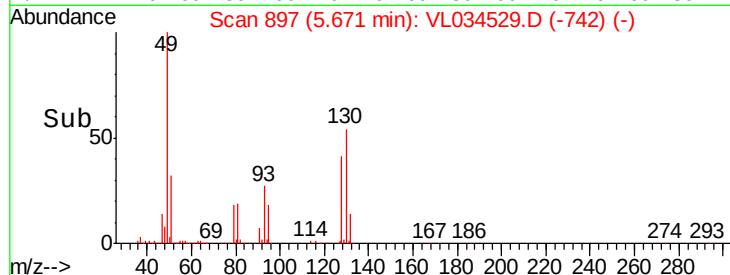
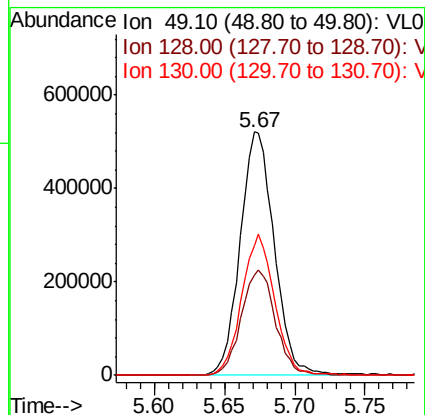
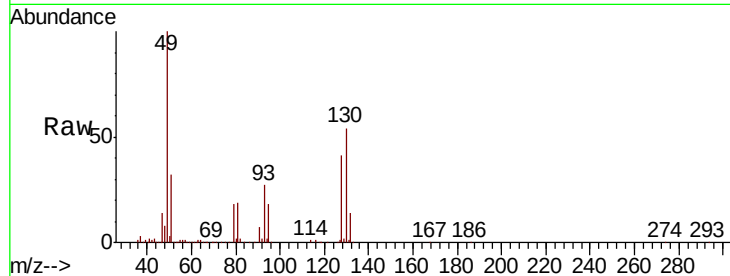
ClientSampled :

27-1

Tot Ion:	49	Resp:	884069
Ion	Ratio	Lower	Upper
49	100		
128	43.4	22.4	67.2
130	56.4	28.3	85.0

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#2

Dichlorodifluoromethane

Concen: 0.633 ppbv

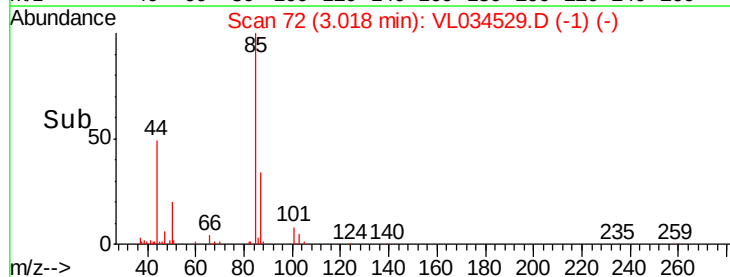
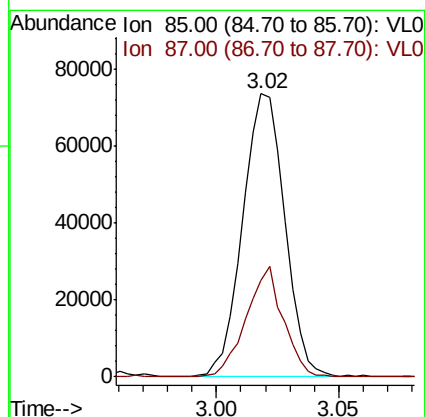
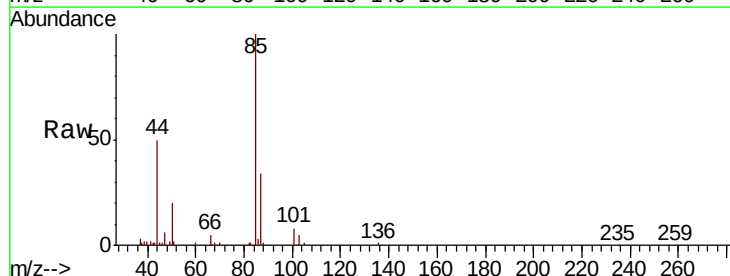
RT: 3.02 min Scan# 72

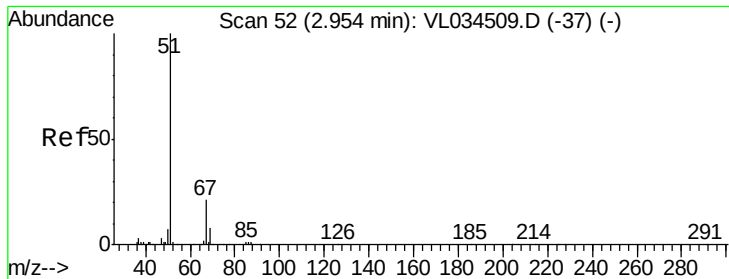
Delta R.T. 0.00 min

Lab File: VL034529.D

Acq: 31 Dec 2019 2:27

Tgt Ion:	85	Resp:	88189
Ion	Ratio	Lower	Upper
85	100		
87	34.3	27.9	41.9





#3

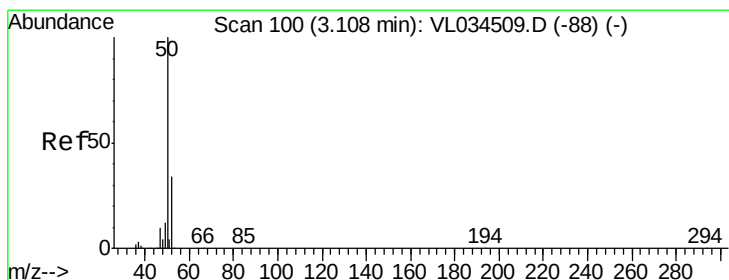
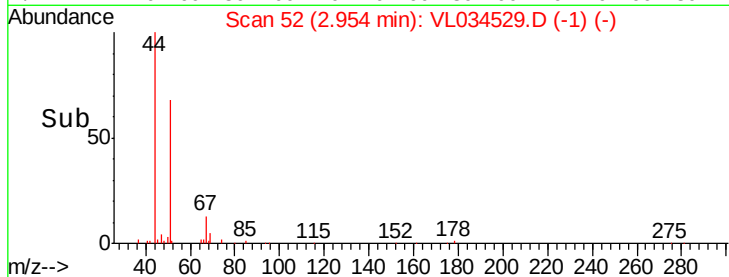
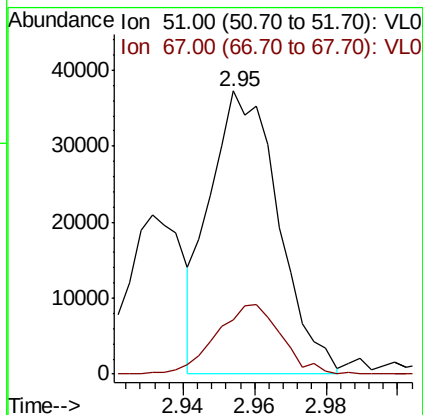
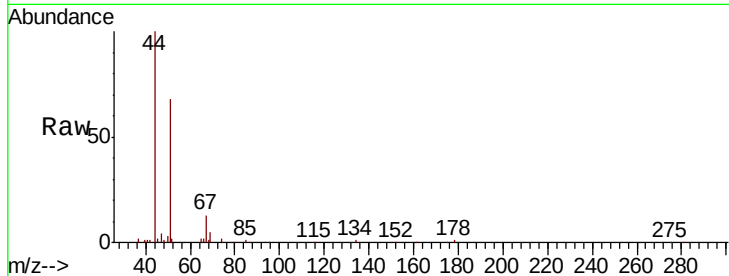
Chlorodifluoromethane
 Concen: 0.469 ppbv
 RT: 2.95 min Scan# 52
 Delta R.T. 0.00 min
 Lab File: VL034529.D
 Acq: 31 Dec 2019 2:27

Instrument :
 MSVOA_L
 ClientSampled :
 27-1

Tot Ion	Ratio	Lower	Upper
51	100		
67	23.5	16.8	25.2

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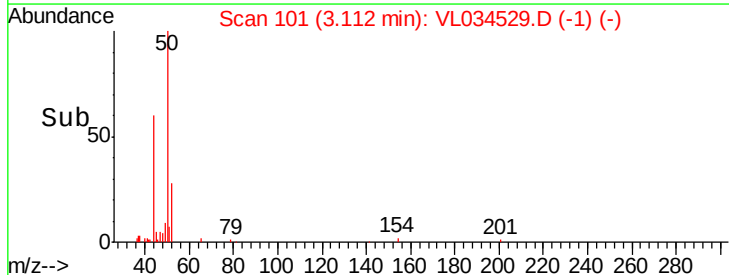
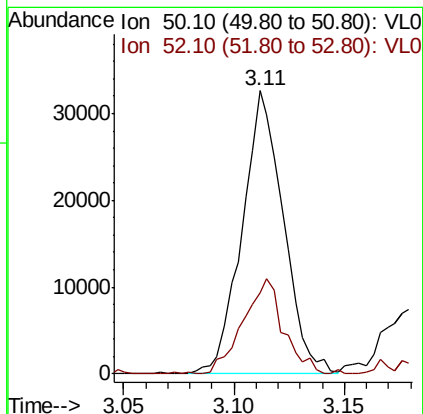
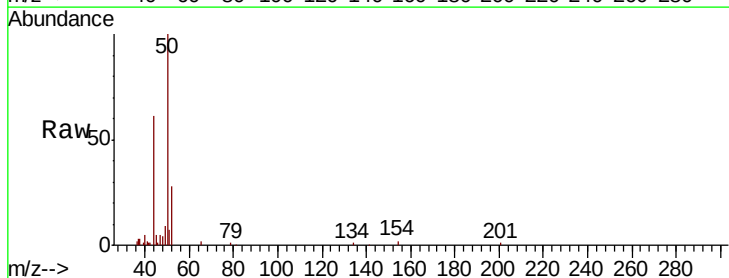
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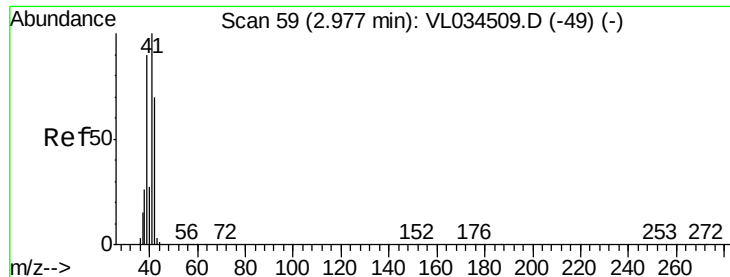


#4

Chloromethane
 Concen: 0.678 ppbv
 RT: 3.11 min Scan# 101
 Delta R.T. 0.00 min
 Lab File: VL034529.D
 Acq: 31 Dec 2019 2:27

Tgt Ion	Ratio	Lower	Upper
50	100		
52	27.7	27.6	41.4





#9

Propene

Concen: 2.355 ppbv m

RT: 2.99 min Scan# 64

Delta R.T. 0.02 min

Lab File: VL034529.D

Acq: 31 Dec 2019 2:27

Instrument :

MSVOA_L

ClientSampled :

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Tot Ion: 41 Resp: 95651

Ion Ratio Lower Upper

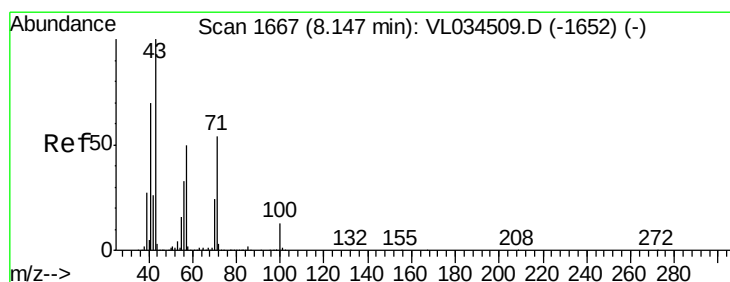
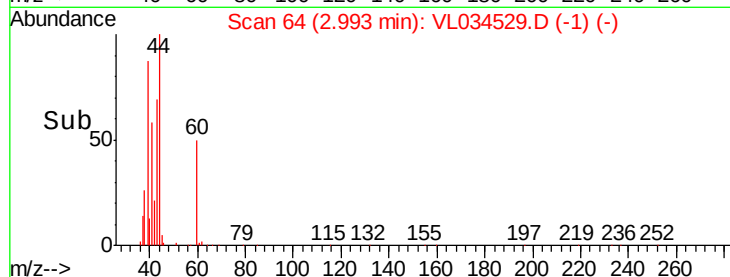
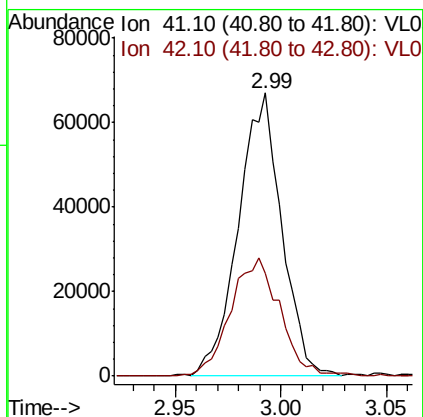
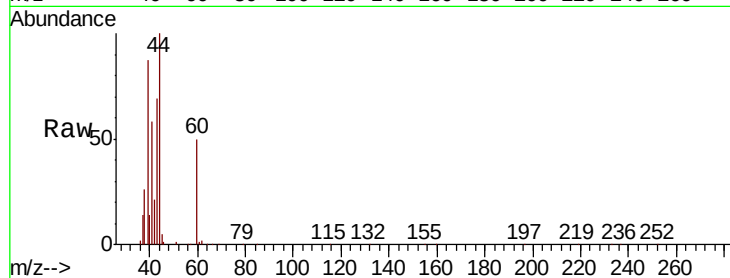
41 100

42 265.6 55.8 83.6#

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#10

Heptane

Concen: 0.331 ppbv m

RT: 8.15 min Scan# 1669

Delta R.T. 0.01 min

Lab File: VL034529.D

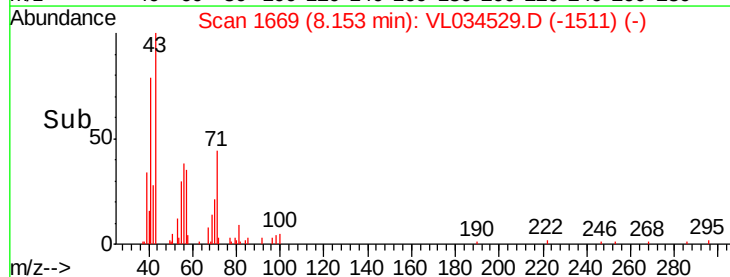
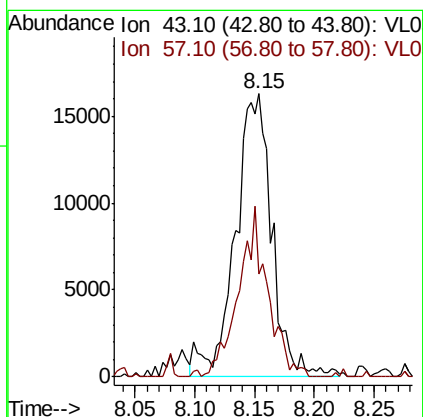
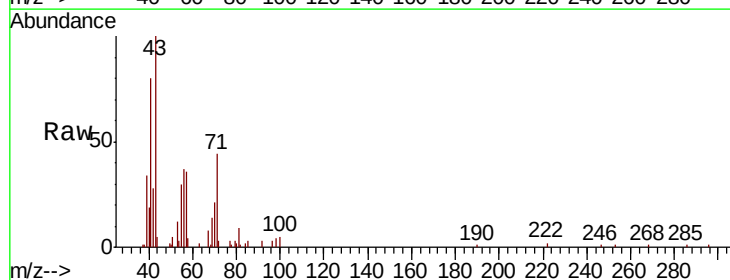
Acq: 31 Dec 2019 2:27

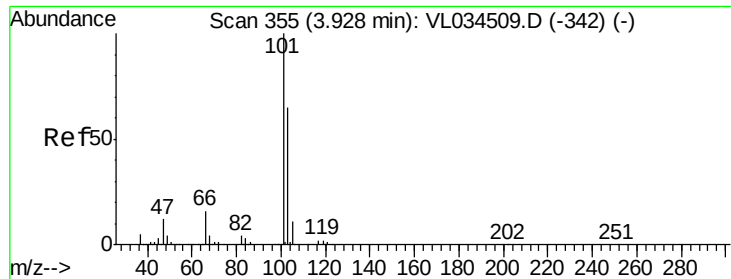
Tgt Ion: 43 Resp: 34713

Ion Ratio Lower Upper

43 100

57 0.0 41.0 61.6#





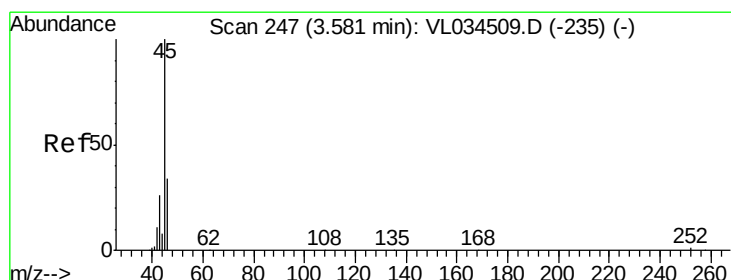
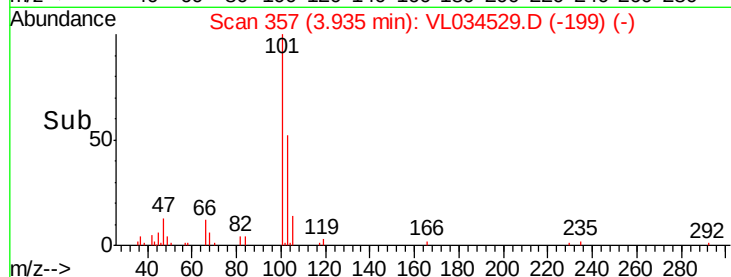
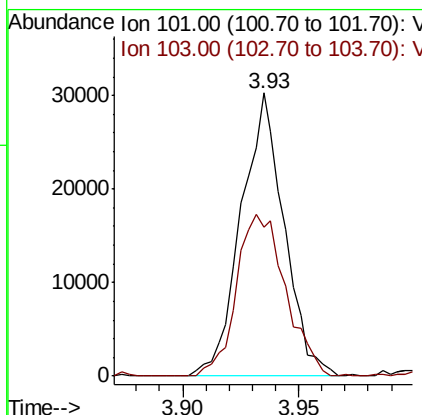
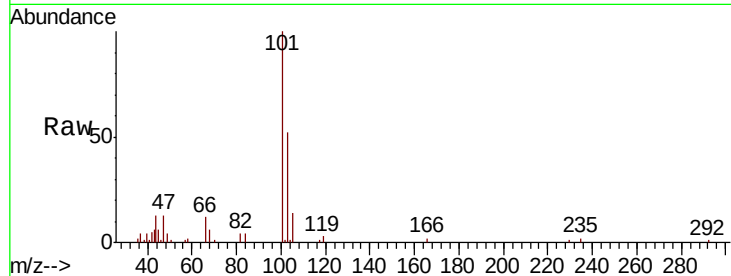
#11
 Trichlorofluoromethane
 Concen: 0.242 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. 0.01 min
 Lab File: VL034529.D
 Acq: 31 Dec 2019 2:27

Instrument :
 MSVOA_L
 ClientSampled :
 27-1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		39117		
103	52.4	52.1	78.1		

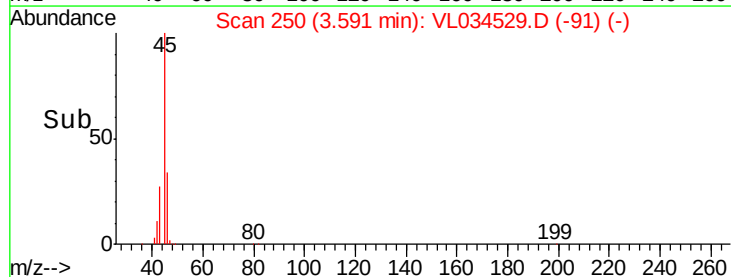
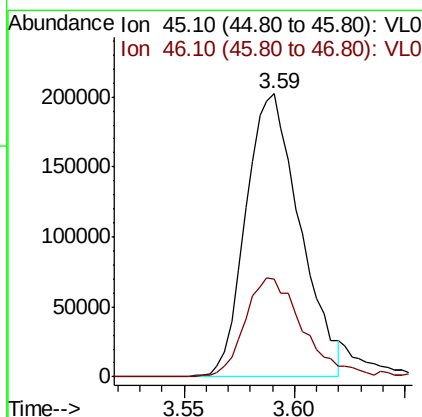
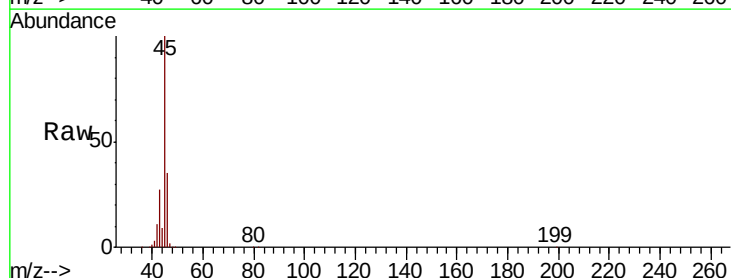
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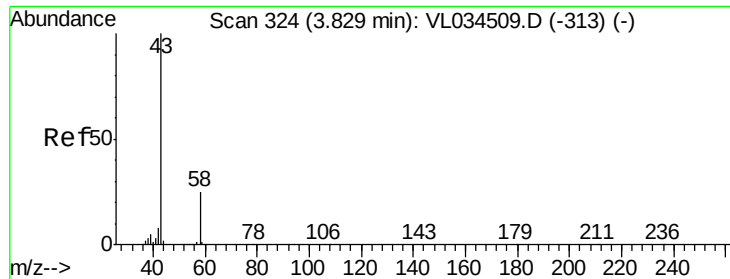
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#13
 Ethanol
 Concen: 30.605 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. 0.01 min
 Lab File: VL034529.D
 Acq: 31 Dec 2019 2:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		344852		
46	38.4	14.9	59.7		





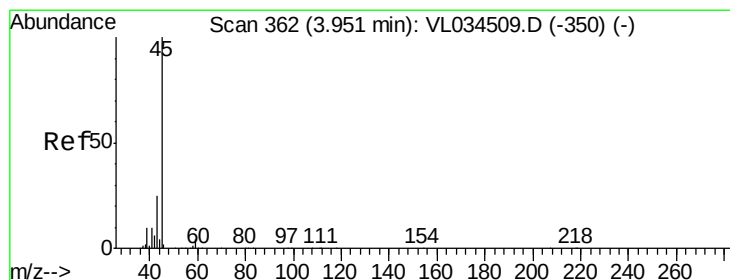
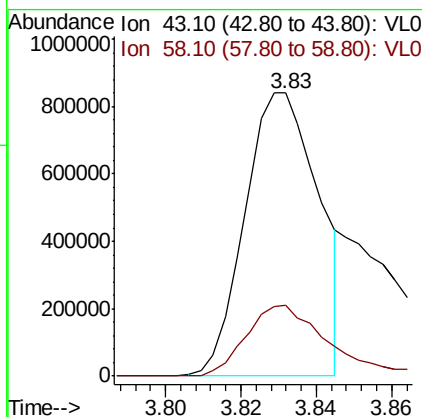
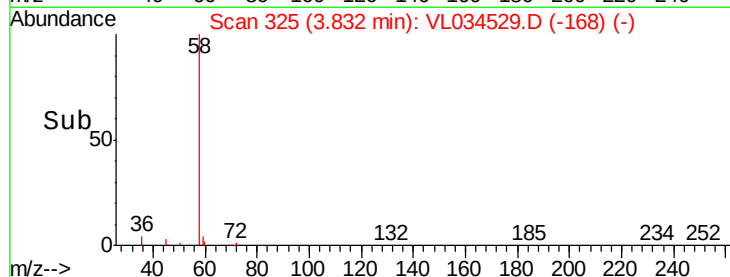
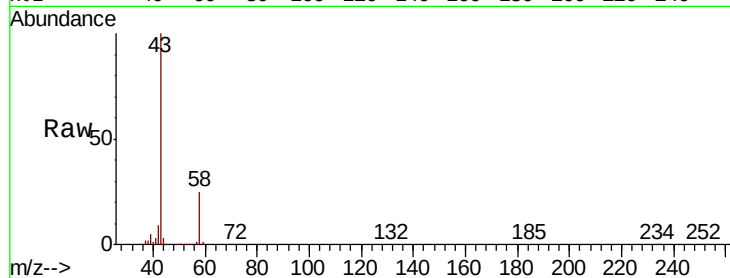
#15
Acetone
Concen: 8.878 ppbv m
RT: 3.83 min Scan# 325
Delta R.T. 0.00 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Instrument :
MSVOA_L
ClientSampled :
27-1

Tot Ion: 43 Resp: 1145482
Ion Ratio Lower Upper
43 100
58 28.6 20.4 30.6

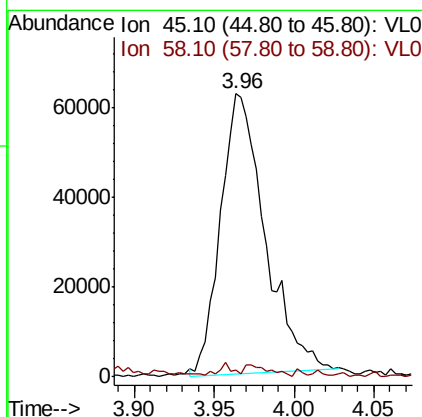
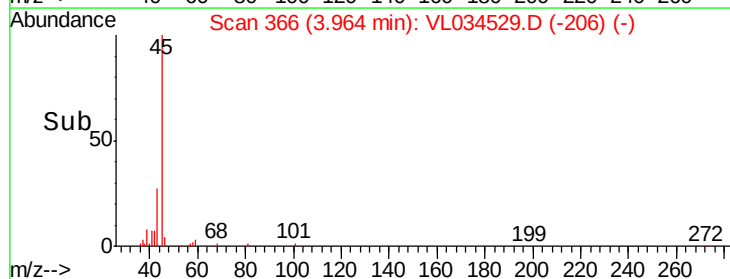
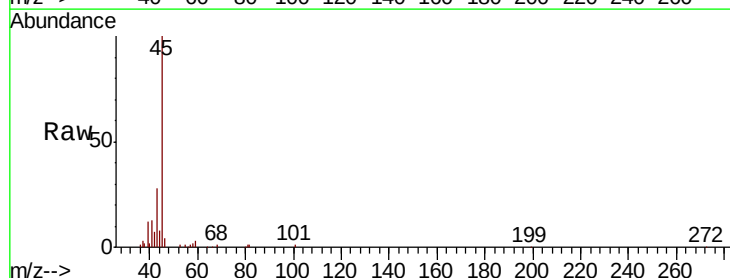
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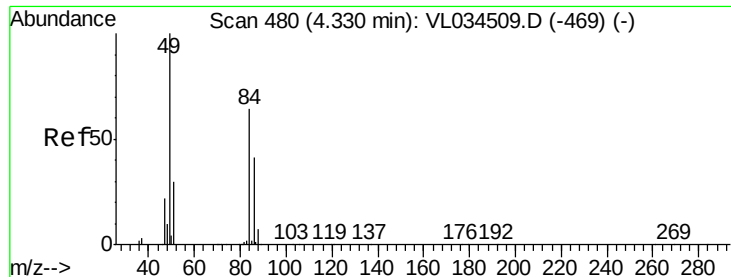
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#19
Isopropyl Alcohol
Concen: 1.448 ppbv m
RT: 3.96 min Scan# 366
Delta R.T. 0.01 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Tgt Ion: 45 Resp: 120948
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.0#





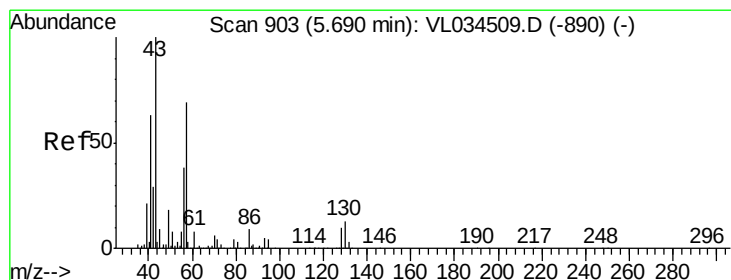
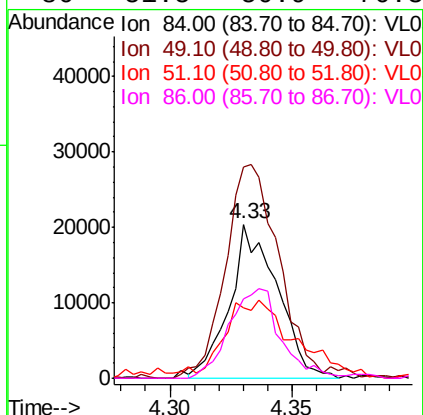
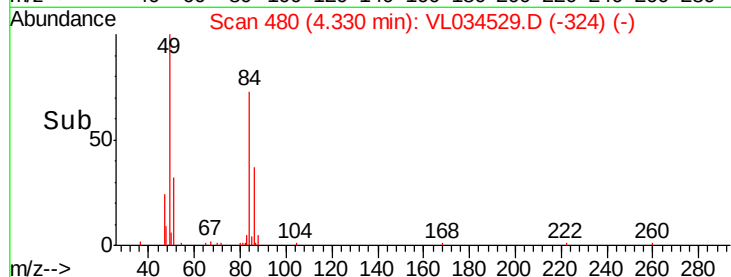
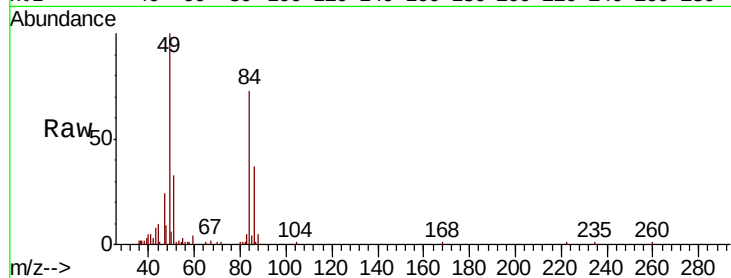
#20
Methylene Chloride
Concen: 0.545 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Instrument :
MSVOA_L
ClientSampled :
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Tot Ion:	84	Resp:	27683
Ion	Ratio	Lower	Upper
84	100		
49	132.3	124.4	186.6
51	38.8	37.0	55.6
86	51.5	50.9	76.3

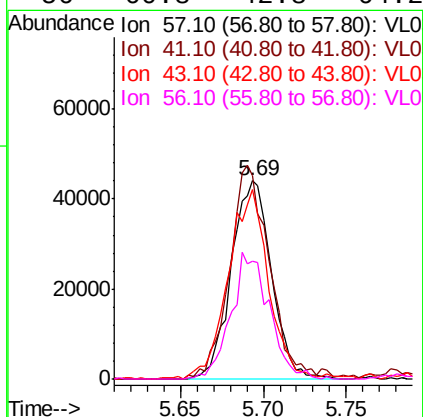
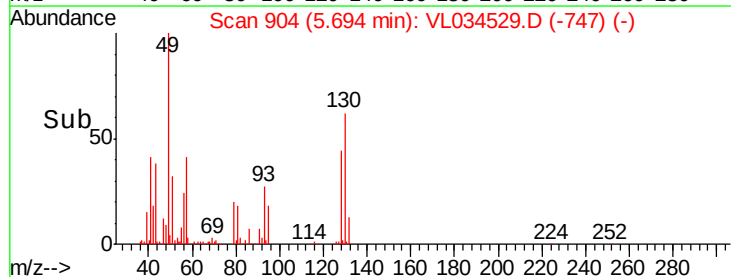
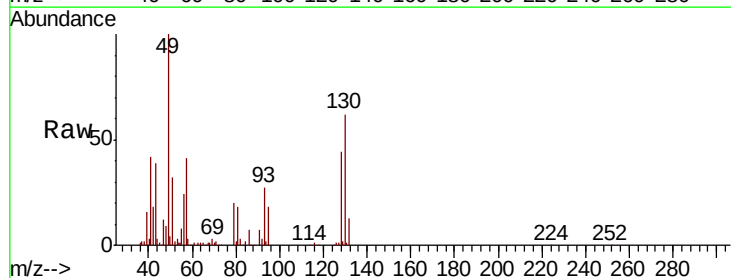
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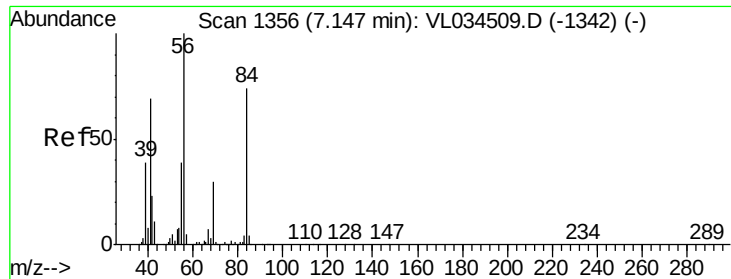
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#26
Hexane
Concen: 0.872 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.00 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Tgt Ion:	57	Resp:	74000
Ion	Ratio	Lower	Upper
57	100		
41	108.7	75.3	112.9
43	96.9	189.4	284.2#
56	60.8	42.8	64.2





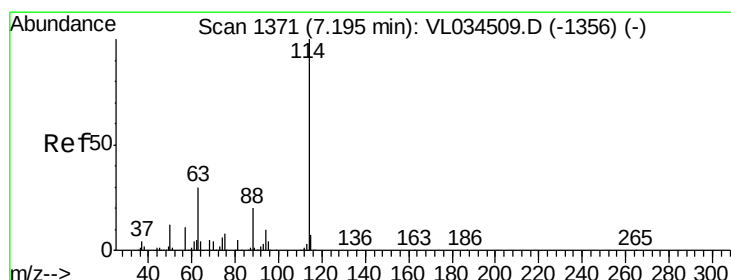
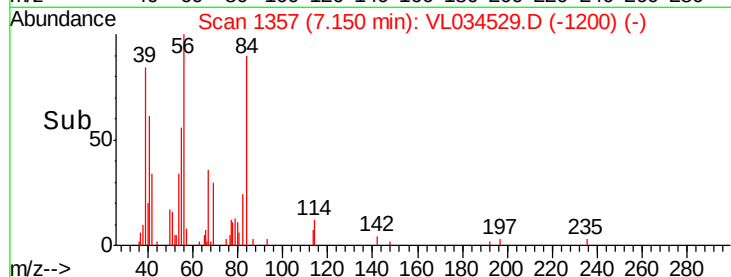
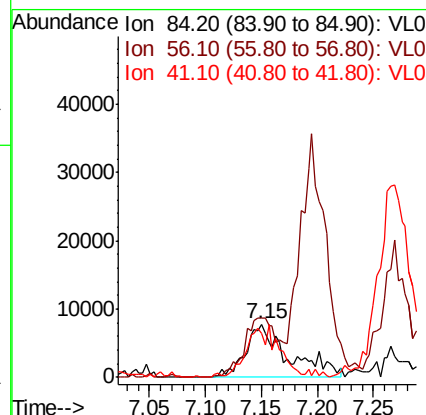
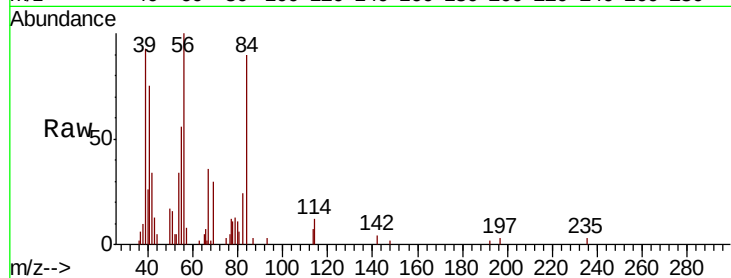
#30
Cyclohexane
Concen: 0.326 ppbv m
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Instrument :
MSVOA_L
ClientSampleId :
27-1

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	112.7	169.1#
41	0.0	73.0	109.4#

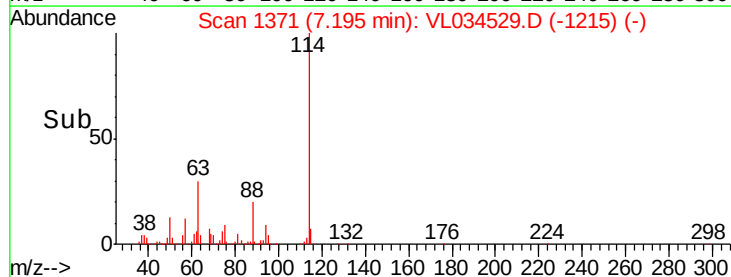
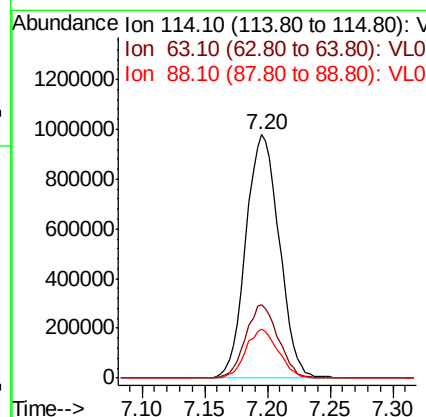
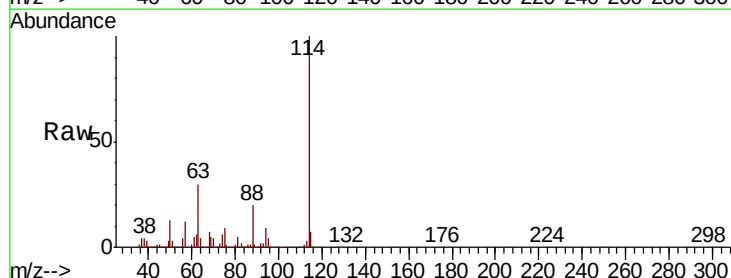
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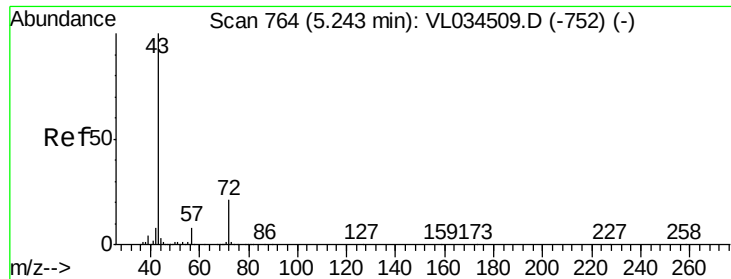
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.5	24.1	36.1
88	19.5	15.7	23.5





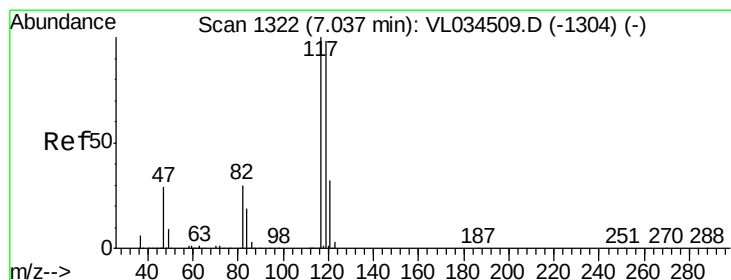
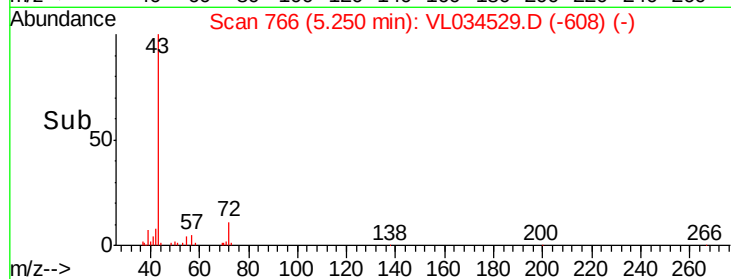
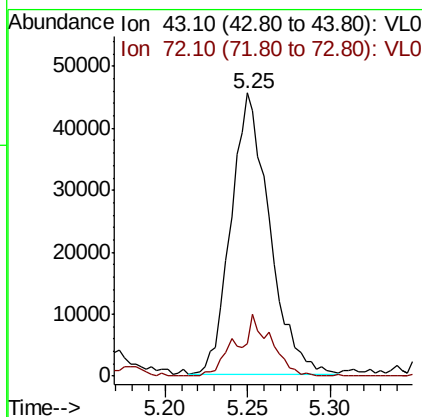
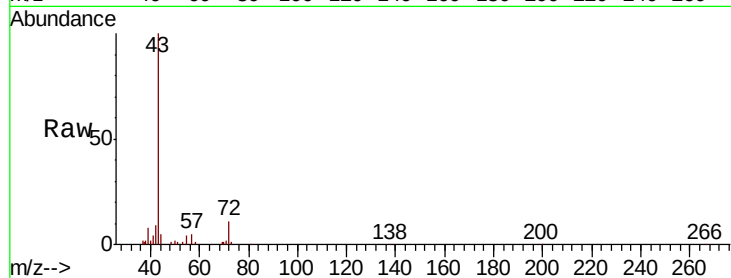
#34
2-Butanone
Concen: 0.569 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.01 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Instrument :
MSVOA_L
ClientSampled :
27-1

Tot Ion	43	Resp	73774
Ion Ratio	100	Lower	Upper
43	100	17.0	25.4
72	19.6		

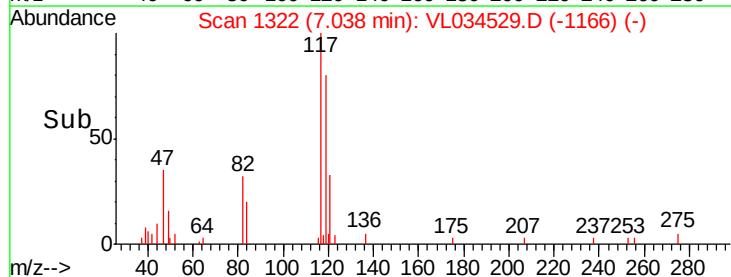
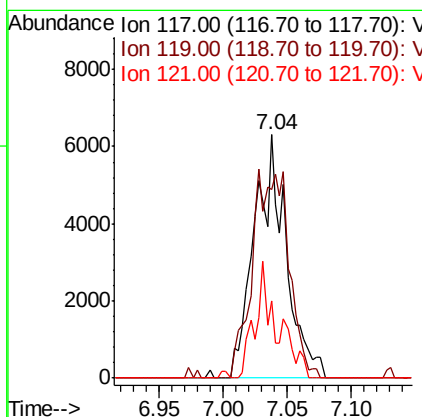
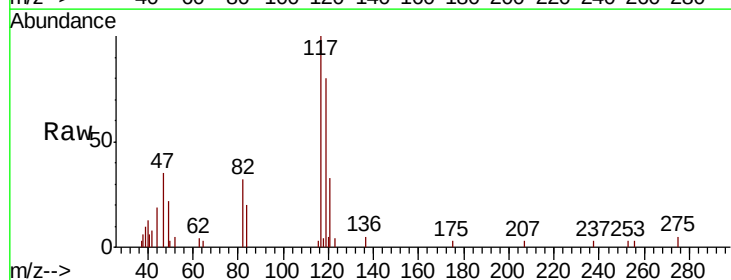
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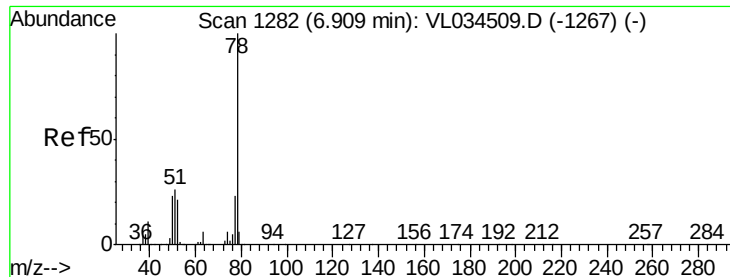
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#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.04 min Scan# 1322
Delta R.T. 0.00 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Tgt Ion	117	Resp	10857
Ion Ratio	100	Lower	Upper
117	100	78.7	118.1
119	80.4	25.9	38.9
121	33.1		





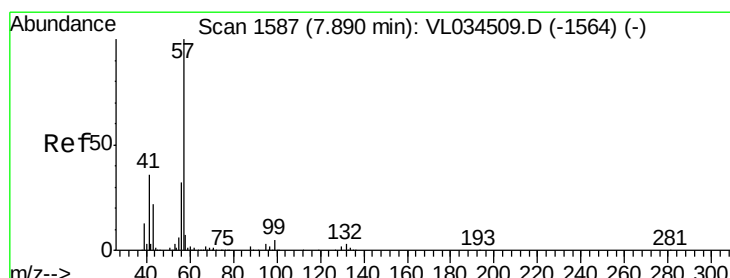
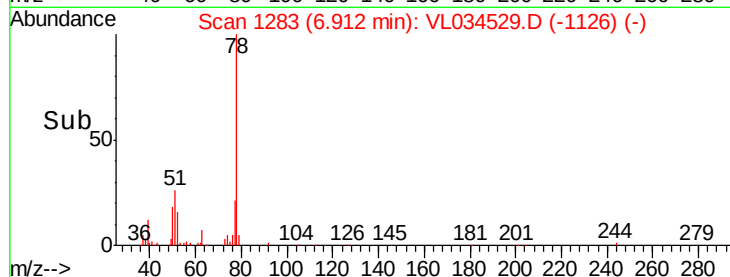
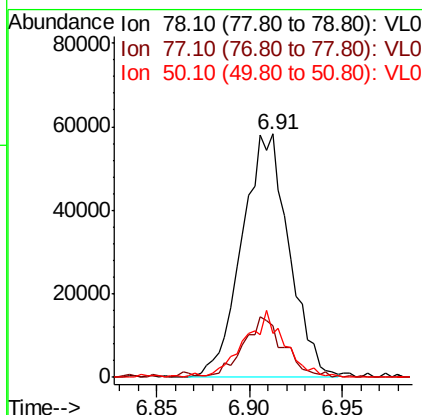
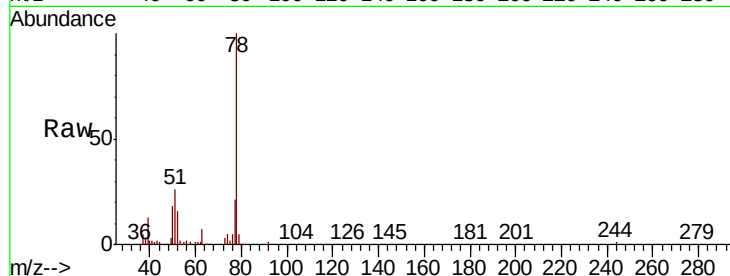
#36
Benzene
Concen: 0.651 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Instrument :
MSVOA_L
ClientSampled :
27-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.2	18.6	28.0
50	17.3	18.8	28.2#

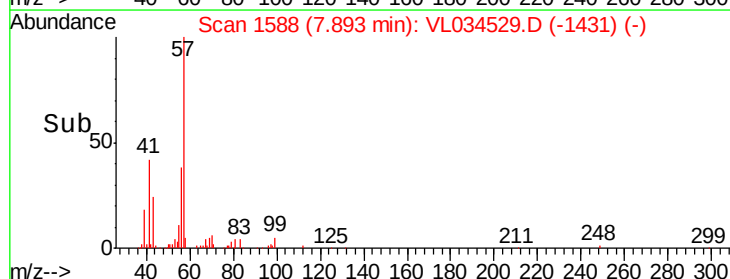
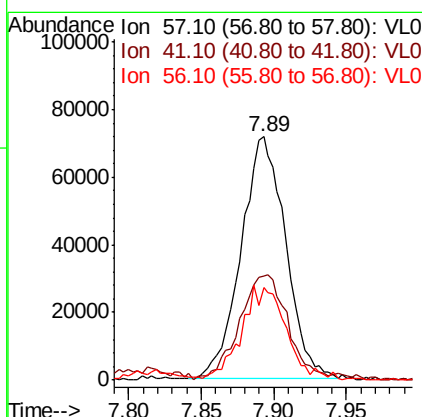
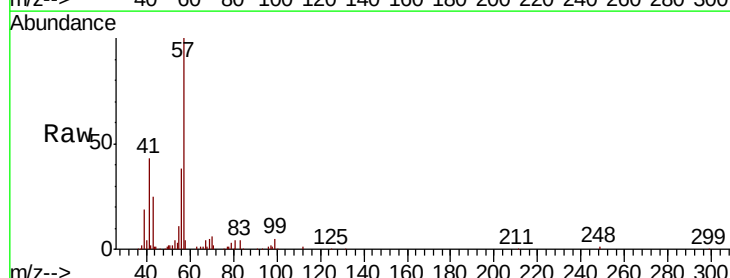
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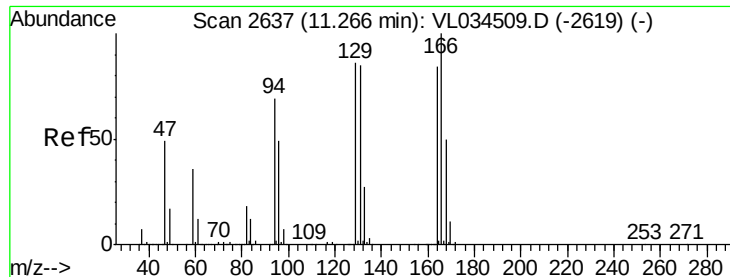
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#44
2,2,4-Trimethylpentane
Concen: 0.521 ppbv
RT: 7.89 min Scan# 1588
Delta R.T. 0.00 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	48.7	29.0	43.4#
56	39.4	24.9	37.3#





#52

Tetrachloroethene

Concen: 0.051 ppbv m

RT: 11.28 min Scan# 2640

Delta R.T. 0.01 min

Lab File: VL034529.D

Acq: 31 Dec 2019 2:27

Instrument :

MSVOA_L

ClientSampled :

27-1

Tot Ion:164 Resp: 3129

Ion Ratio Lower Upper

164 100

166 65.6 95.7 143.5#

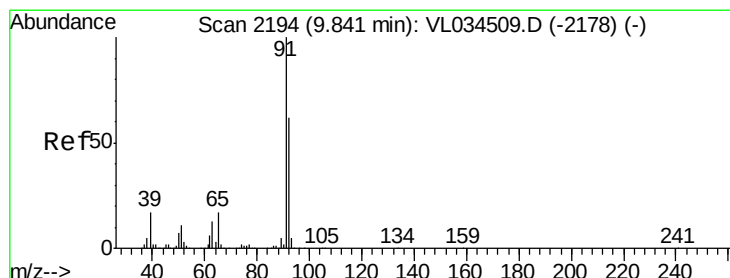
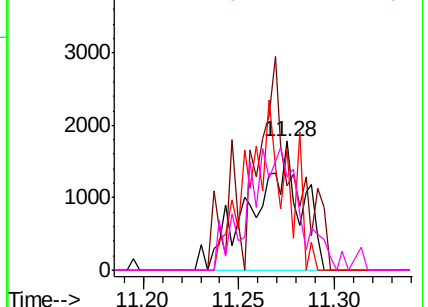
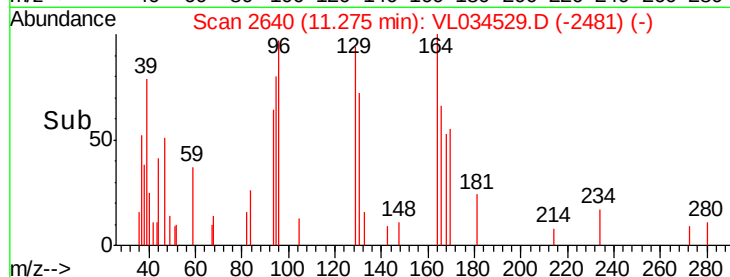
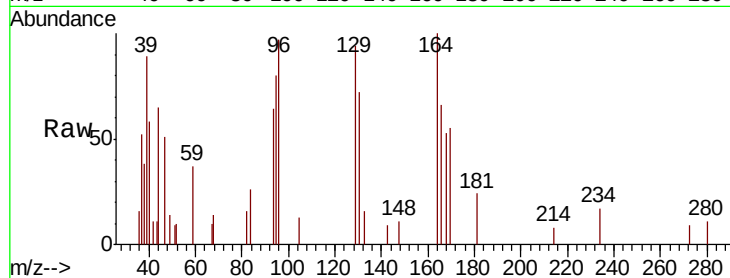
129 94.2 82.2 123.2

131 71.9 81.3 121.9#

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#53

Toluene

Concen: 1.133 ppbv m

RT: 9.85 min Scan# 2196

Delta R.T. 0.01 min

Lab File: VL034529.D

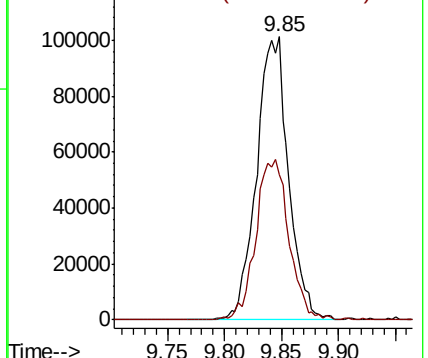
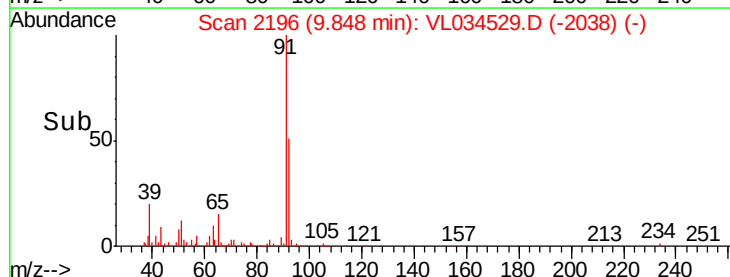
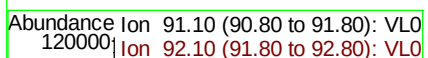
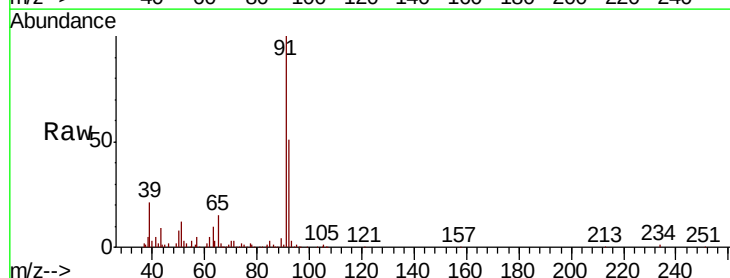
Acq: 31 Dec 2019 2:27

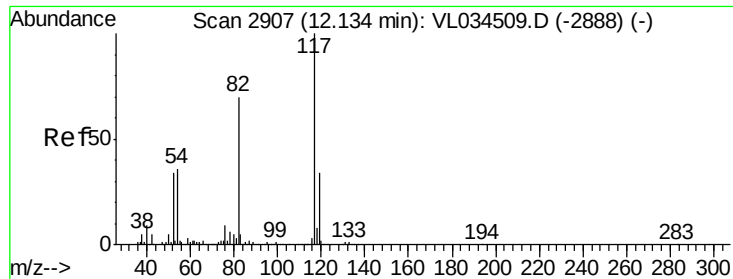
Tgt Ion: 91 Resp: 196915

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#





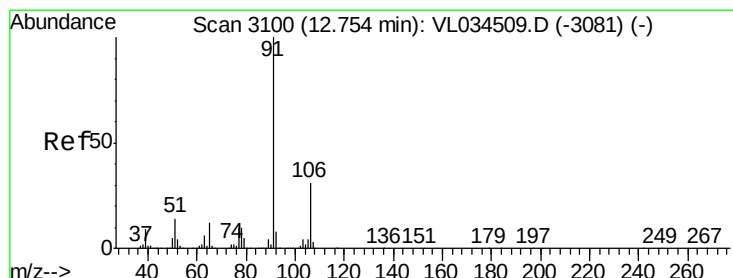
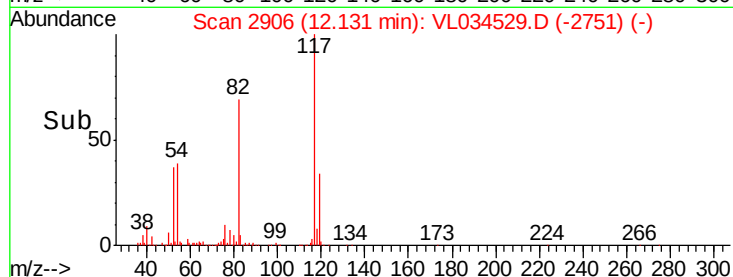
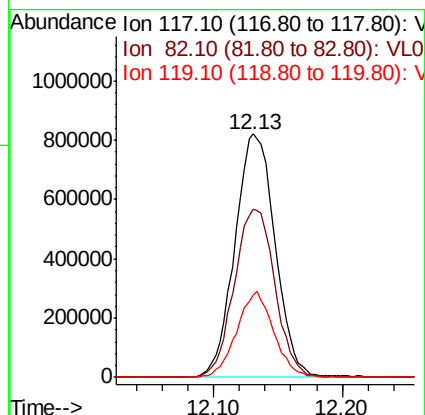
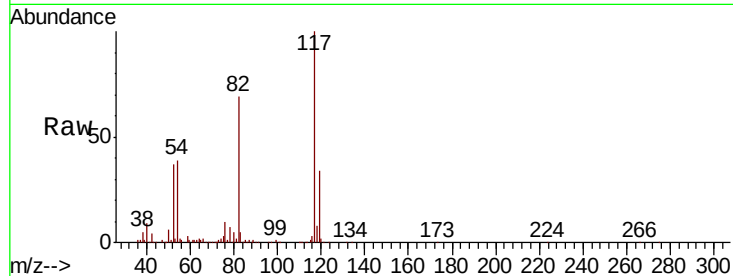
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Instrument :
MSVOA_L
ClientSampled :
27-1

Tot Ion:117 Resp: 1781790
Ion Ratio Lower Upper
117 100
82 70.1 56.2 84.4
119 32.5 27.1 40.7

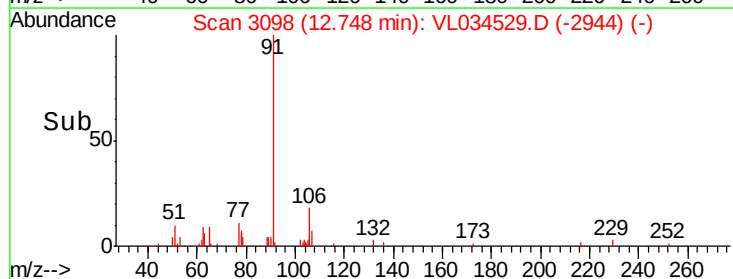
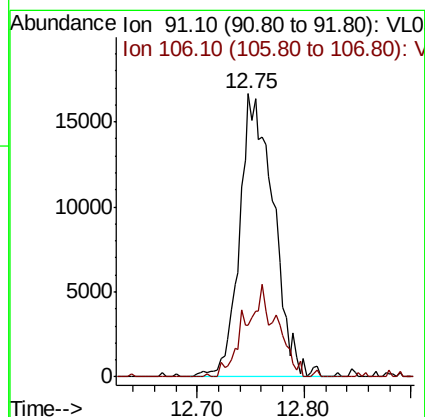
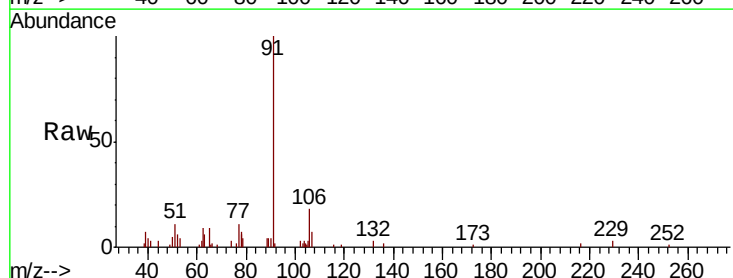
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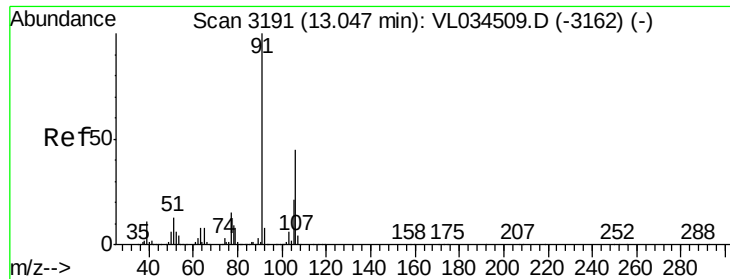
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#58
Ethyl Benzene
Concen: 0.153 ppbv m
RT: 12.75 min Scan# 3098
Delta R.T. -0.01 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Tgt Ion: 91 Resp: 36709
Ion Ratio Lower Upper
91 100
106 18.3 24.6 36.8#





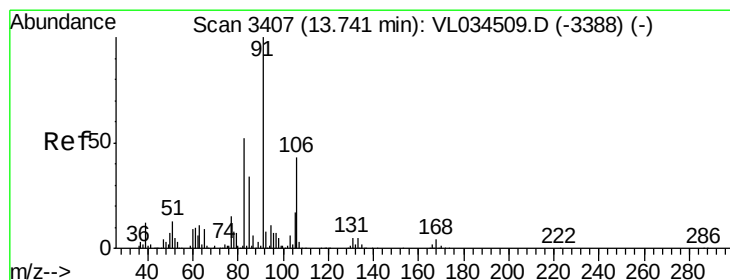
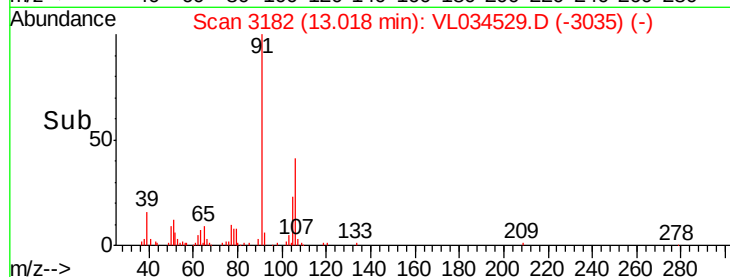
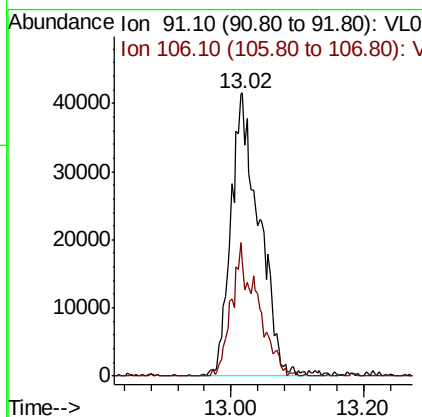
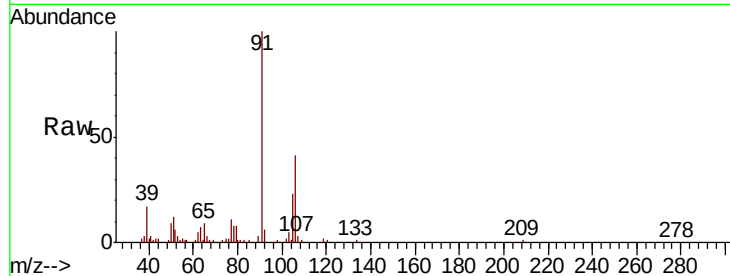
#59
m/p-Xylene
Concen: 0.589 ppbv m
RT: 13.02 min Scan# 3182
Delta R.T. -0.03 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Instrument :
MSVOA_L
ClientSampled :
27-1

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.6	53.4#

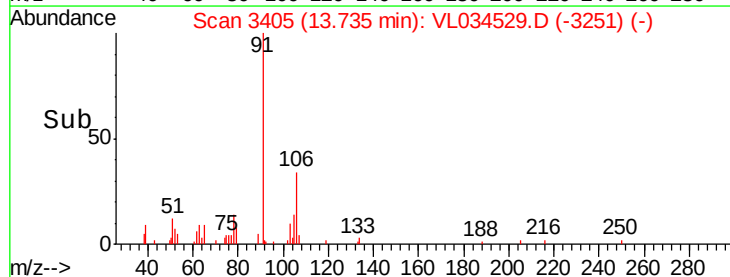
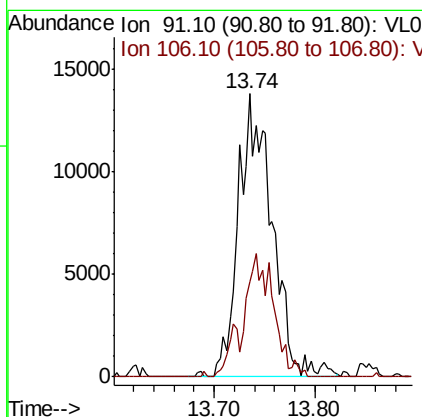
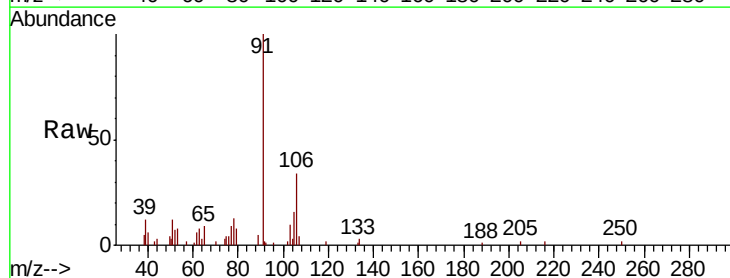
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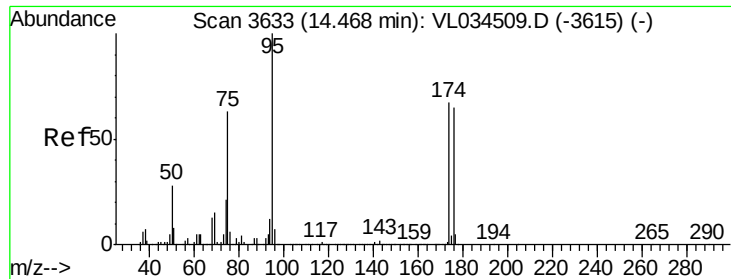
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#60
o-Xylene
Concen: 0.151 ppbv m
RT: 13.74 min Scan# 3405
Delta R.T. -0.01 min
Lab File: VL034529.D
Acq: 31 Dec 2019 2:27

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.4	64.3#





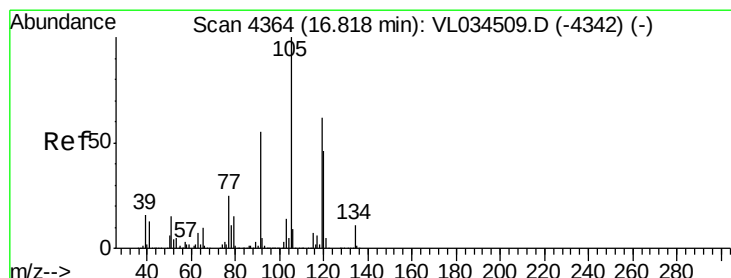
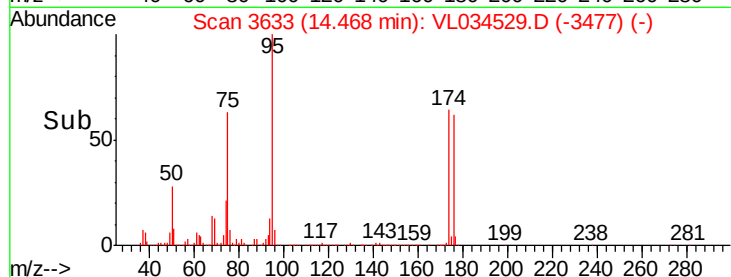
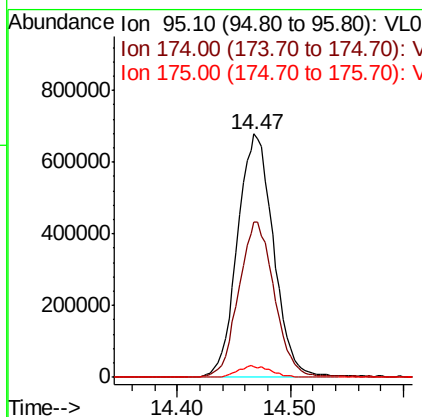
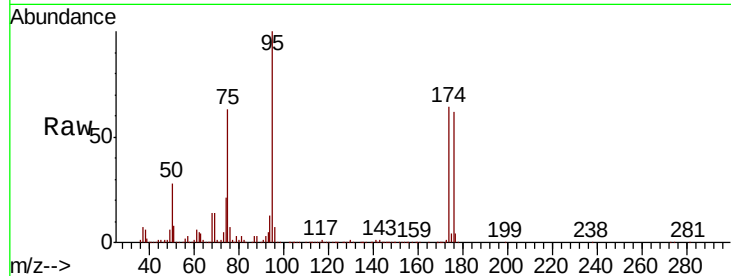
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.112 ppbv
 RT: 14.47 min Scan# 3633
 Delta R.T. 0.00 min
 Lab File: VL034529.D
 Acq: 31 Dec 2019 2:27

Instrument :
 MSVOA_L
 ClientSampled :
 27-1

Tot Ion: 95 Resp: 1503480
 Ion Ratio Lower Upper
 95 100
 174 63.5 52.4 78.6
 175 4.4 3.9 5.9

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.111 ppbv
 RT: 16.82 min Scan# 4366
 Delta R.T. 0.01 min
 Lab File: VL034529.D
 Acq: 31 Dec 2019 2:27

Tgt Ion: 105 Resp: 27375
 Ion Ratio Lower Upper
 105 100
 120 37.7 36.7 55.1
 91 18.7 44.0 66.0#
 77 17.8 19.9 29.9#

