

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010220\
 Data File : VL034546.D
 Acq On : 2 Jan 2020 14:41
 Operator : SY/AP
 Sample : K6473-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MJ-1

Manual Integrations
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Quant Time: Jan 03 05:41:55 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

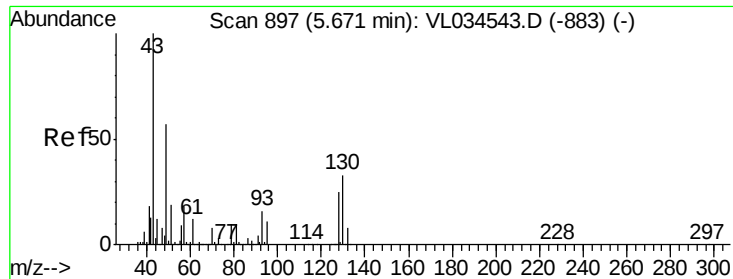
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	855779	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1725556	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1665641	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1420346	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	38648	0.286	ppbv	97
3) Chlorodifluoromethane	2.95	51	85942m	0.843	ppbv	
4) Chloromethane	3.11	50	27650	0.457	ppbv	97
9) Propene	2.99	41	144938m	3.687	ppbv	
11) Trichlorofluoromethane	3.93	101	37768	0.242	ppbv	98
13) Ethanol	3.60	45	6710483	615.225	ppbv	96
15) Acetone	3.83	43	905181	7.248	ppbv	98
17) tert-Butyl alcohol	4.31	59	33645m	0.336	ppbv	
19) Isopropyl Alcohol	3.97	45	537083	6.643	ppbv #	97
20) Methylene Chloride	4.33	84	38095	0.775	ppbv #	83
29) Chloroform	5.75	83	23694m	0.167	ppbv	
34) 2-Butanone	5.24	43	130268	1.056	ppbv	98
35) Carbon Tetrachloride	7.03	117	11021m	0.070	ppbv	
36) Benzene	6.91	78	28714m	0.191	ppbv	
41) Tetrahydrofuran	6.06	42	20554m	0.325	ppbv	
52) Tetrachloroethene	11.26	164	45723m	0.779	ppbv	
53) Toluene	9.83	91	132064	0.799	ppbv	96

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL034546.D

Acq: 2 Jan 2020 14:41

Instrument :

MSVOA_L

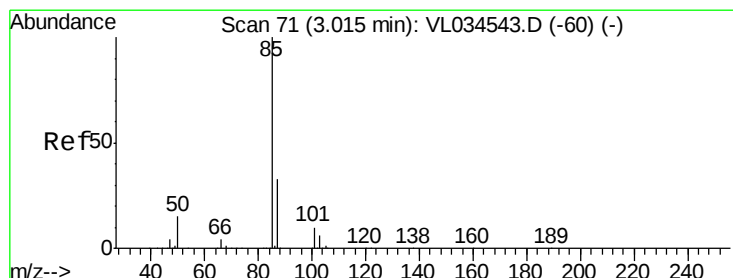
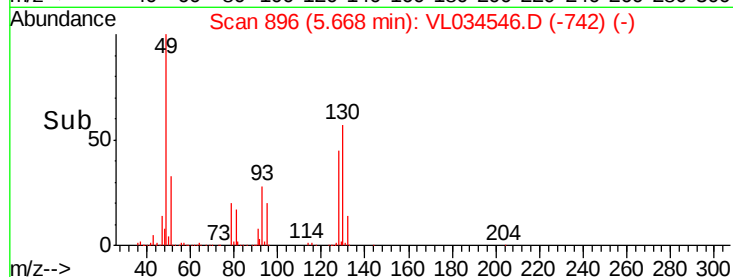
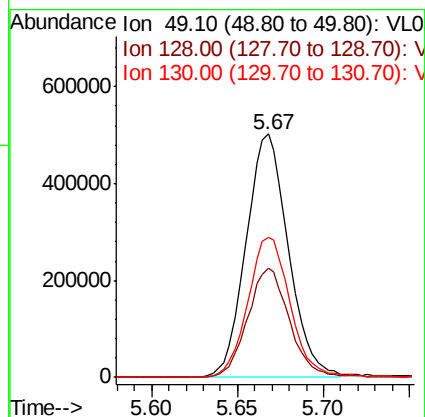
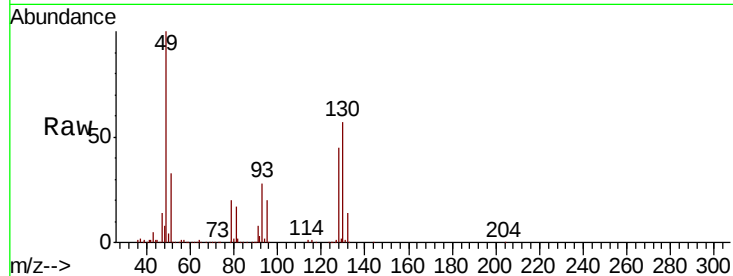
ClientSampled :

MJ-1

Tot Ion:	49	Resp:	855779
Ion	Ratio	Lower	Upper
49	100		
128	44.7	22.4	67.2
130	58.2	28.3	85.0

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#2

Dichlorodifluoromethane

Concen: 0.286 ppbv

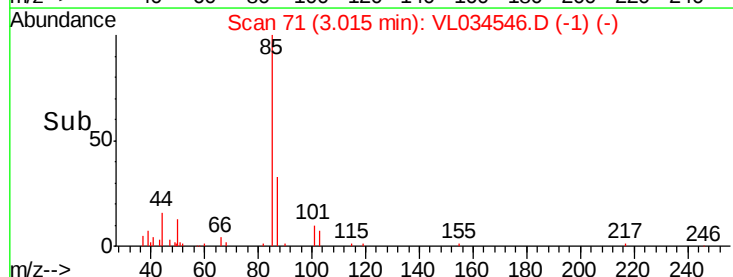
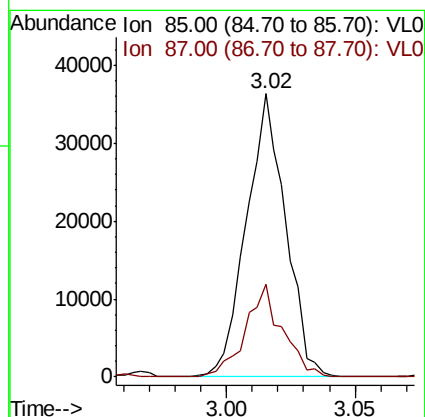
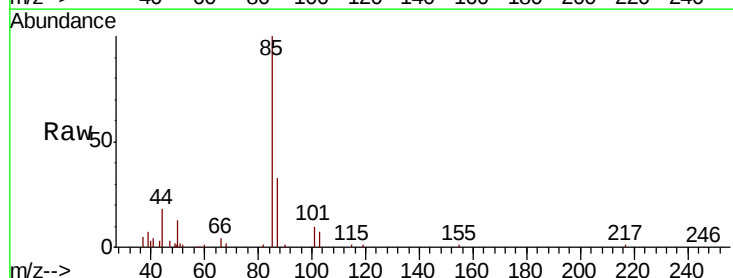
RT: 3.02 min Scan# 71

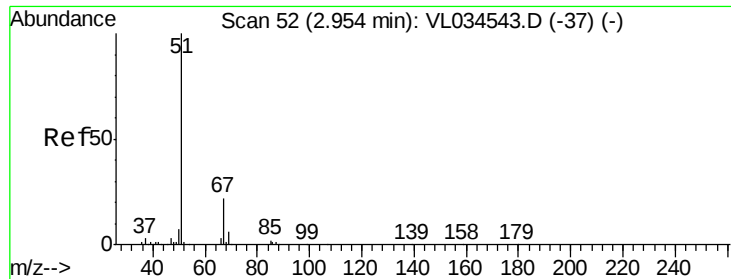
Delta R.T. 0.00 min

Lab File: VL034546.D

Acq: 2 Jan 2020 14:41

Tgt Ion:	85	Resp:	38648
Ion	Ratio	Lower	Upper
85	100		
87	32.9	27.9	41.9





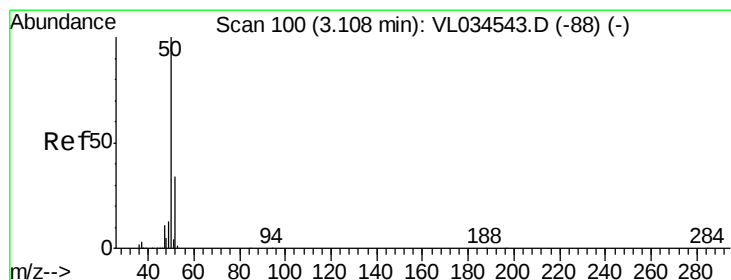
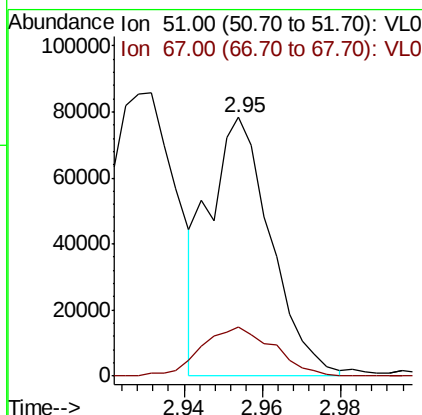
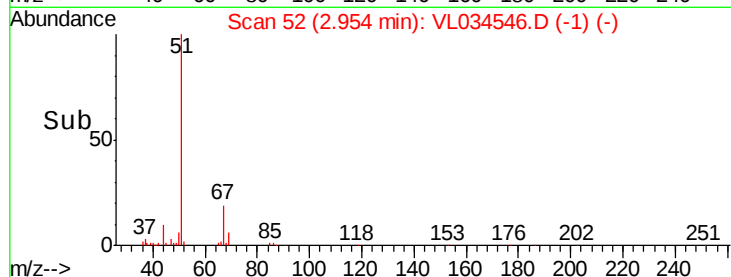
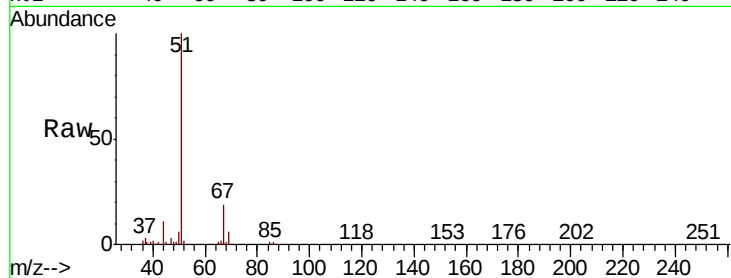
#3
Chlorodifluoromethane
Concen: 0.843 ppbv
RT: 2.95 min Scan# 52
Delta R.T. 0.00 min
Lab File: VL034546.D
Acq: 2 Jan 2020 14:41

Instrument :
MSVOA_L
ClientSampled :
MJ-1

Tot Ion	Ratio	Lower	Upper
51	100		
67	22.5	16.8	25.2

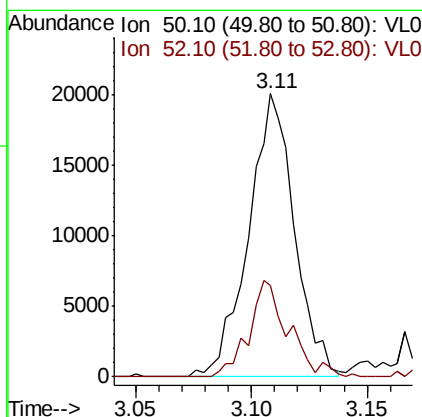
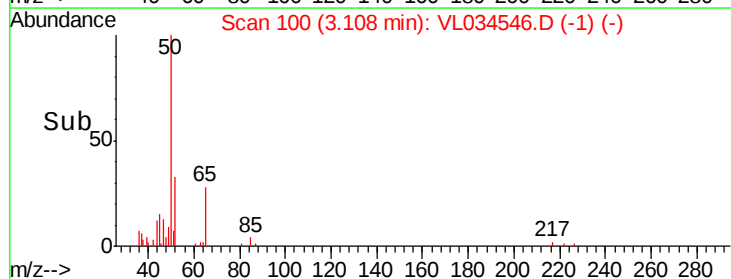
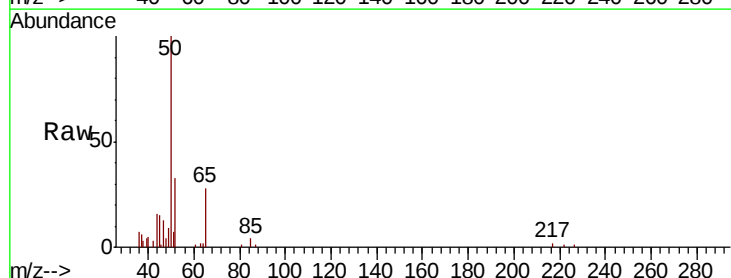
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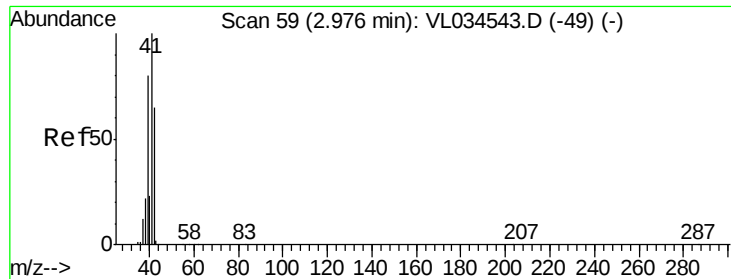
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#4
Chloromethane
Concen: 0.457 ppbv
RT: 3.11 min Scan# 100
Delta R.T. 0.00 min
Lab File: VL034546.D
Acq: 2 Jan 2020 14:41

Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.5	27.6	41.4





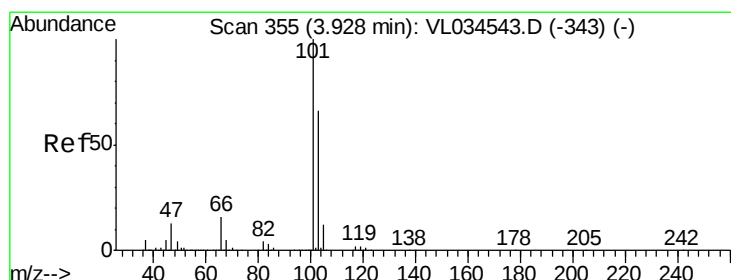
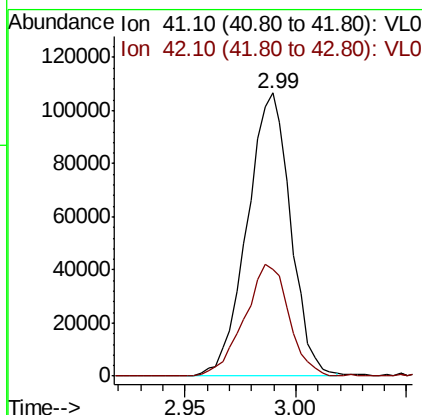
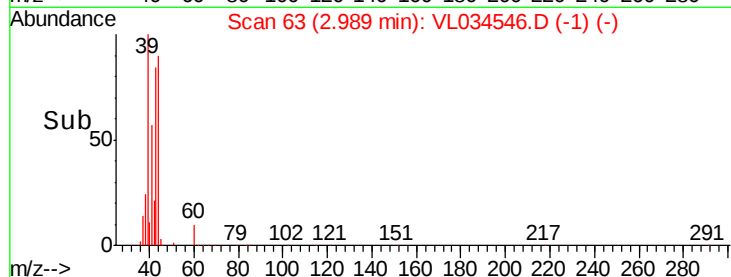
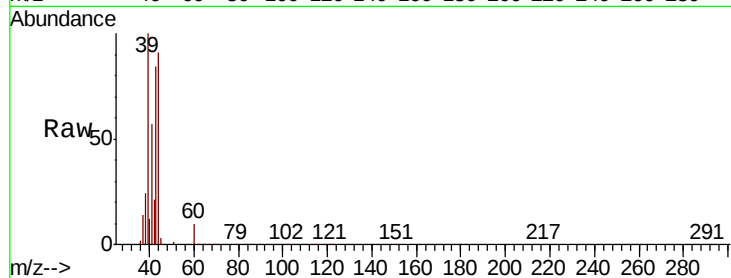
#9
 Propene
 Concen: 3.687 ppbv m
 RT: 2.99 min Scan# 63
 Delta R.T. 0.01 min
 Lab File: VL034546.D
 Acq: 2 Jan 2020 14:41

Instrument :
 MSVOA_L
 ClientSampled :
 MJ-1

Tot Ion: 41 Resp: 144938
 Ion Ratio Lower Upper
 41 100
 42 52.8 55.8 83.6#

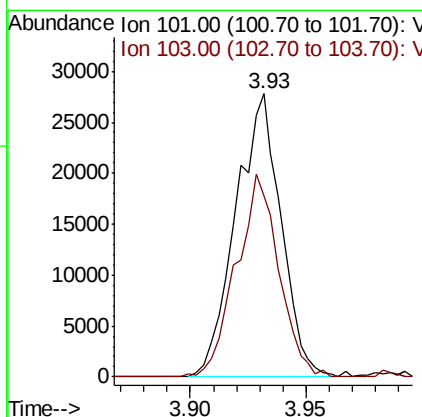
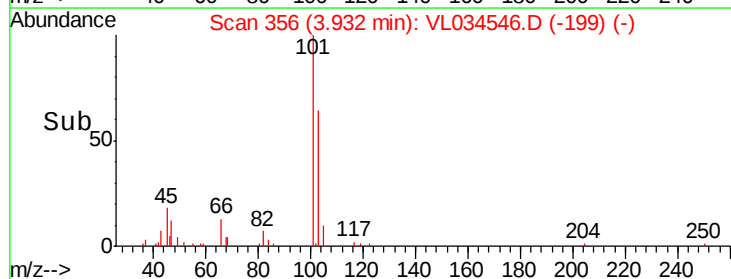
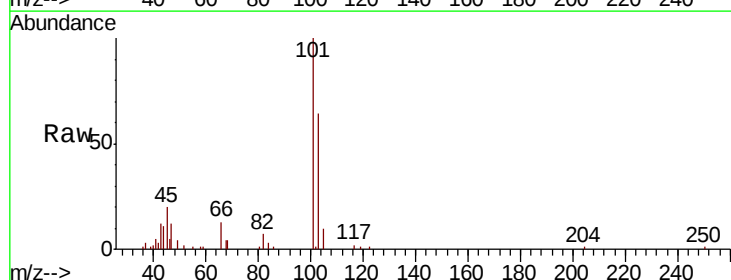
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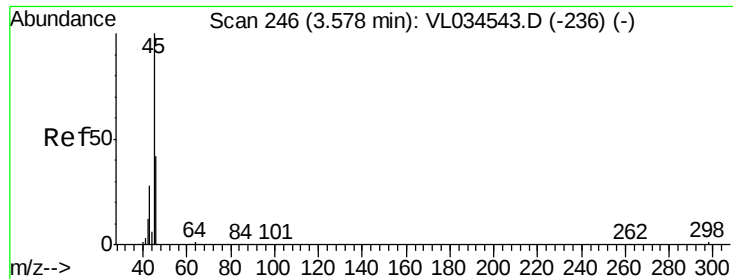
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#11
 Trichlorofluoromethane
 Concen: 0.242 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.00 min
 Lab File: VL034546.D
 Acq: 2 Jan 2020 14:41

Tgt Ion: 101 Resp: 37768
 Ion Ratio Lower Upper
 101 100
 103 63.8 52.1 78.1





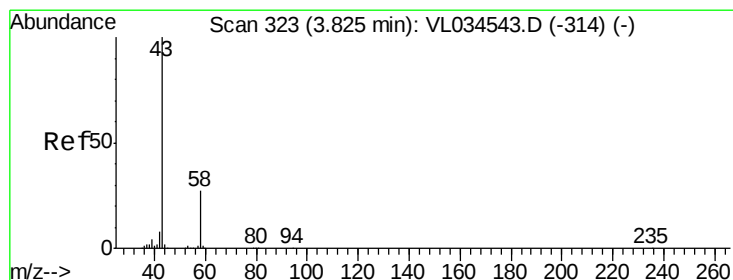
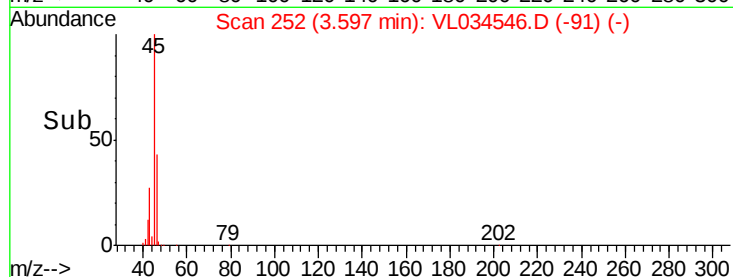
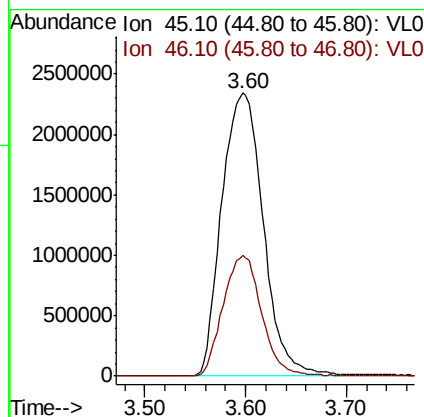
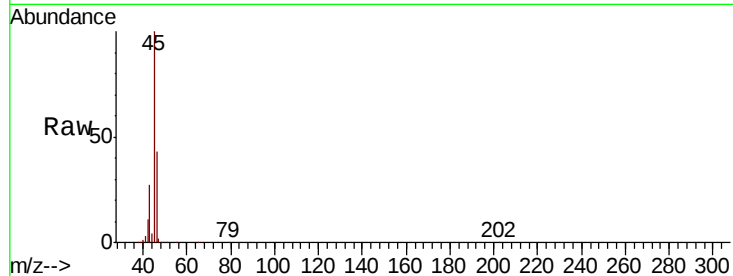
#13
Ethanol
Concen: 615.225 ppbv
RT: 3.60 min Scan# 252
Delta R.T. 0.02 min
Lab File: VL034546.D
Acq: 2 Jan 2020 14:41

Instrument :
MSVOA_L
ClientSampled :
MJ-1

Tot Ion: 45 Resp: 6710483
Ion Ratio Lower Upper
45 100
46 39.9 14.9 59.7

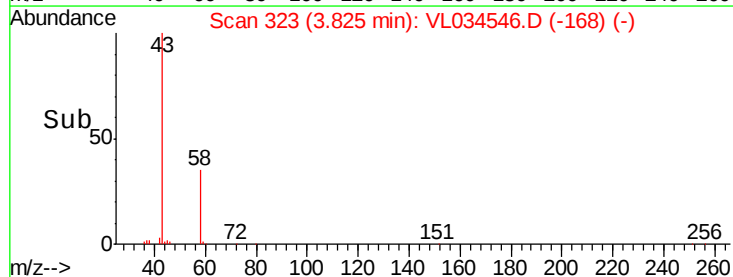
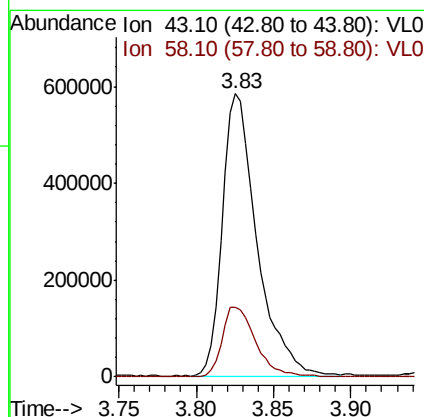
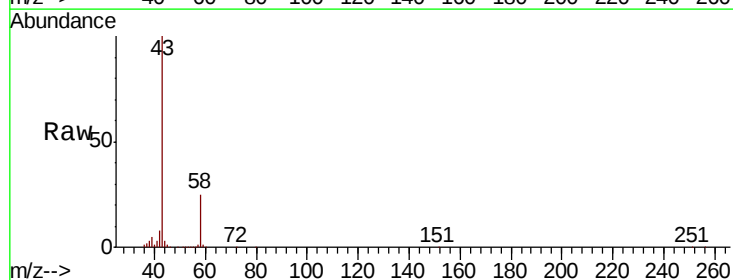
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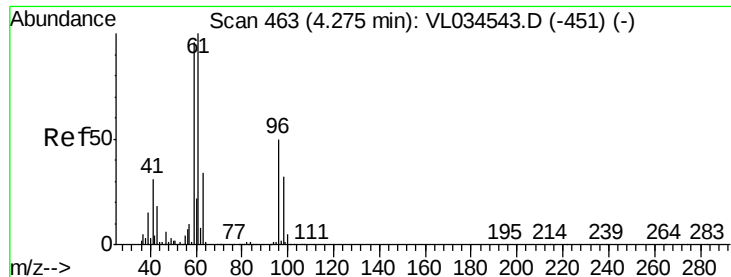
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#15
Acetone
Concen: 7.248 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.00 min
Lab File: VL034546.D
Acq: 2 Jan 2020 14:41

Tgt Ion: 43 Resp: 905181
Ion Ratio Lower Upper
43 100
58 24.2 20.4 30.6





#17

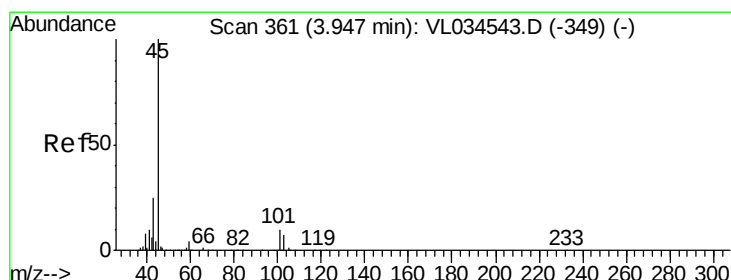
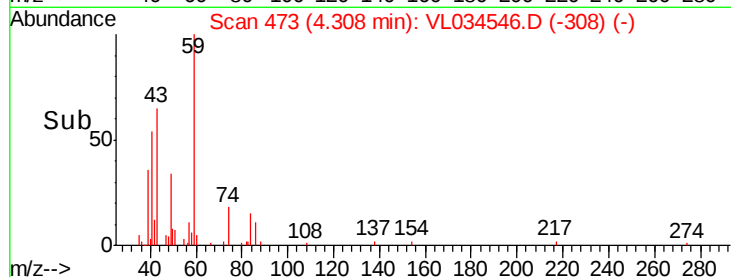
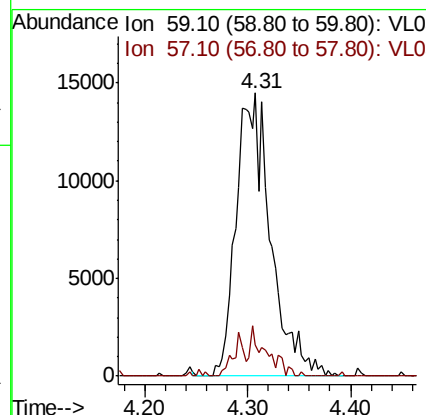
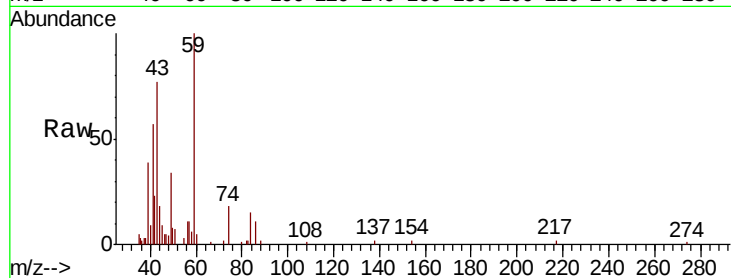
tert-Butyl alcohol
Concen: 0.336 ppbv m
RT: 4.31 min Scan# 473
Delta R.T. 0.03 min
Lab File: VL034546.D
Acq: 2 Jan 2020 14:41

Instrument :
MSVOA_L
ClientSampled :
MJ-1

Tot Ion: 59 Resp: 33645
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

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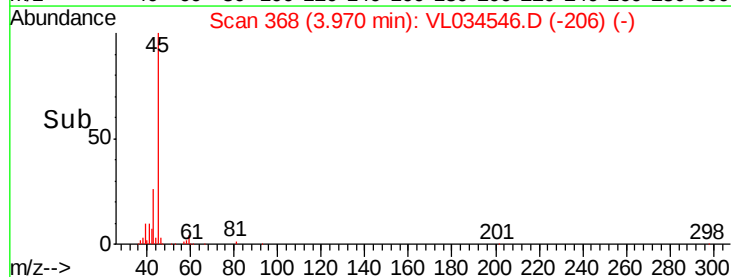
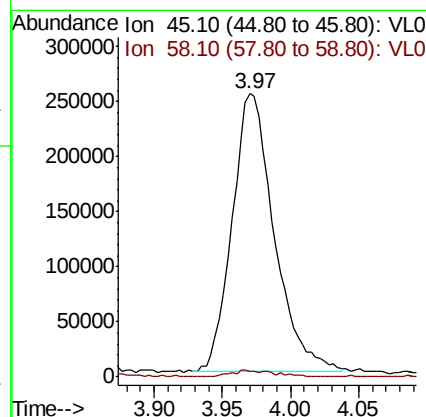
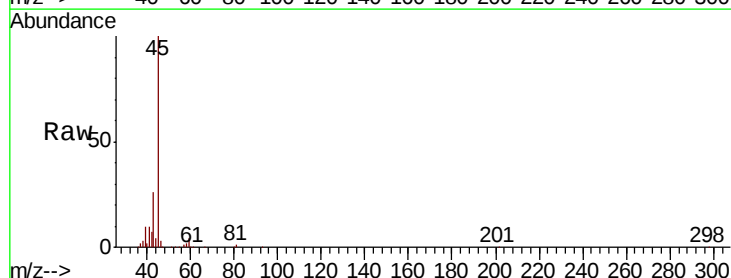
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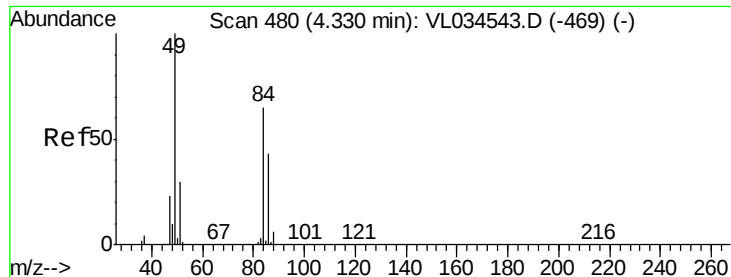


#19

Isopropyl Alcohol
Concen: 6.643 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.02 min
Lab File: VL034546.D
Acq: 2 Jan 2020 14:41

Tgt Ion: 45 Resp: 537083
Ion Ratio Lower Upper
45 100
58 2.7 1.4 2.0#





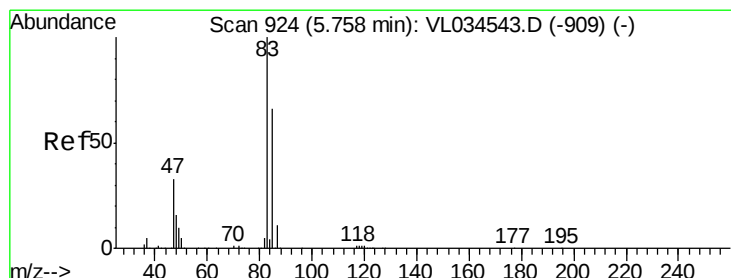
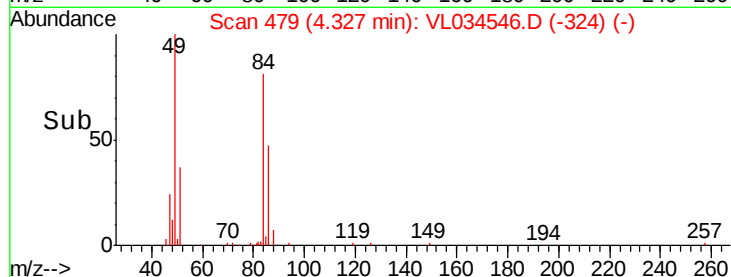
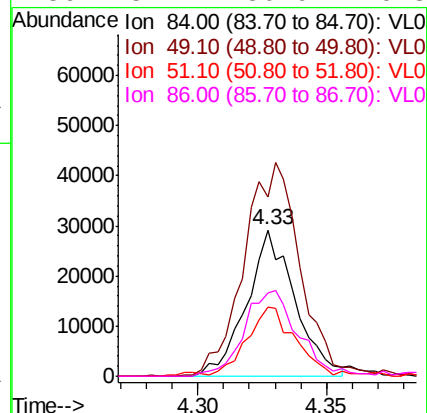
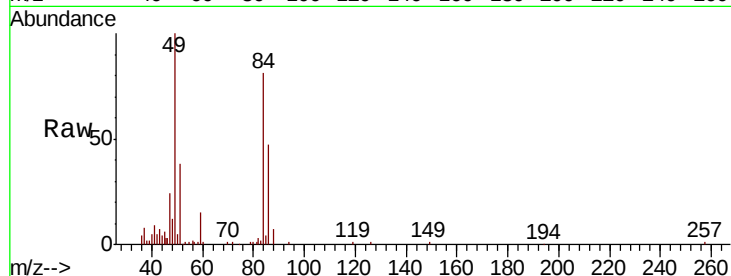
#20
Methvlene Chloride
Concen: 0.775 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL034546.D
Acq: 2 Jan 2020 14:41

Instrument :
MSVOA_L
ClientSampled :
MJ-1

Tot Ion:	84	Resp:	38095
Ion	Ratio	Lower	Upper
84	100		
49	122.4	124.4	186.6#
51	44.7	37.0	55.6
86	57.4	50.9	76.3

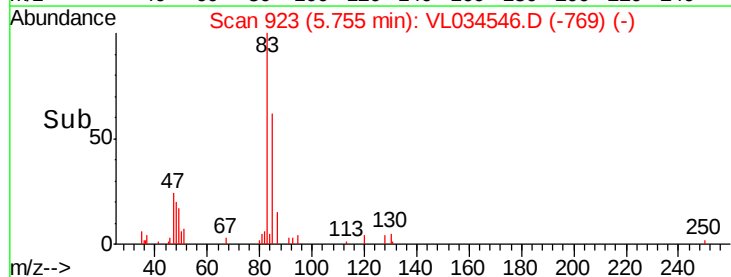
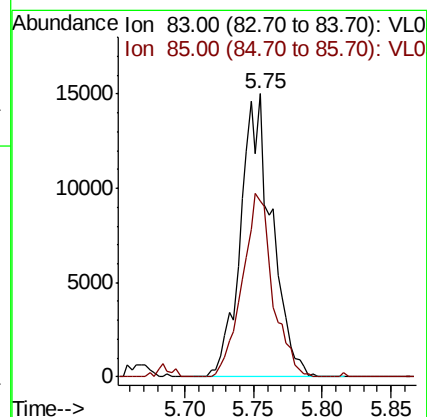
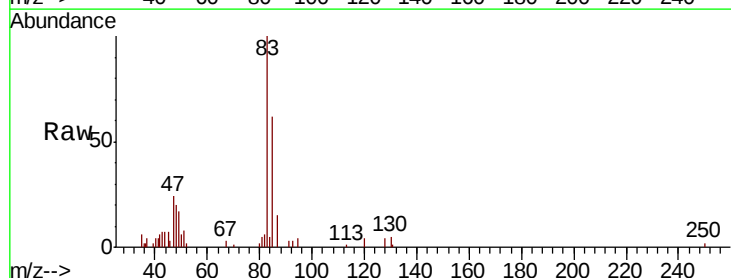
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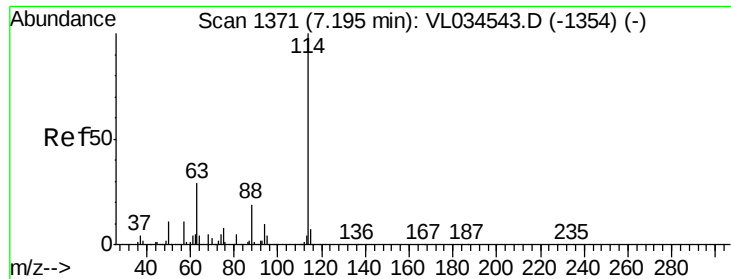
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#29
Chloroform
Concen: 0.167 ppbv m
RT: 5.75 min Scan# 923
Delta R.T. -0.01 min
Lab File: VL034546.D
Acq: 2 Jan 2020 14:41

Tgt Ion:	83	Resp:	23694
Ion	Ratio	Lower	Upper
83	100		
85	62.0	51.0	76.6





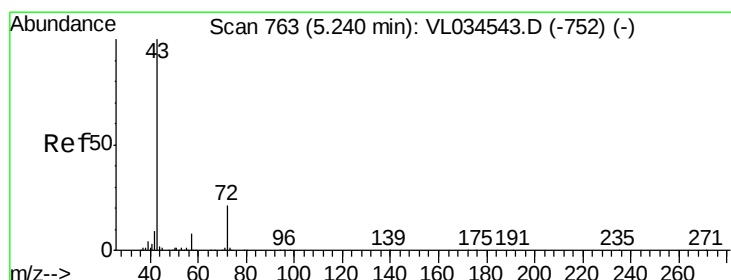
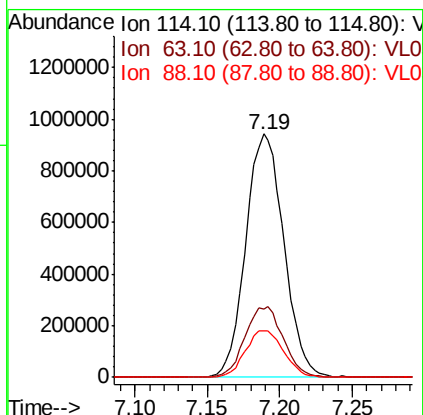
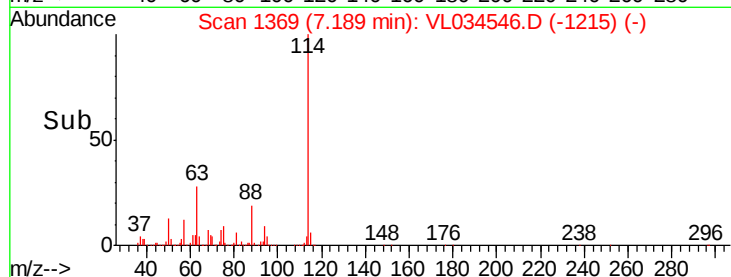
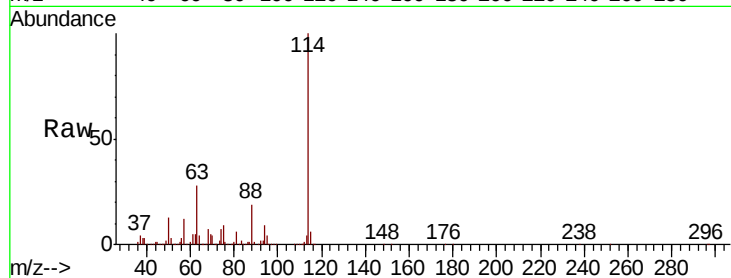
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.01 min
 Lab File: VL034546.D
 Acq: 2 Jan 2020 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 MJ-1

Tot Ion:114 Resp: 1725556
 Ion Ratio Lower Upper
 114 100
 63 29.2 24.1 36.1
 88 19.4 15.7 23.5

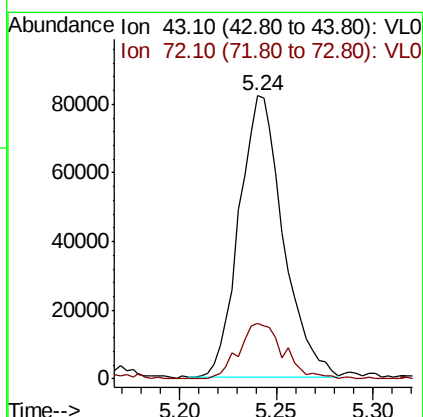
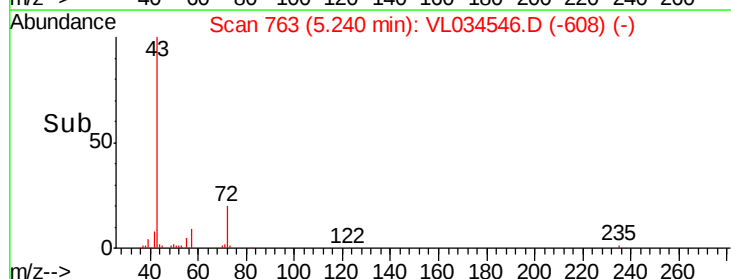
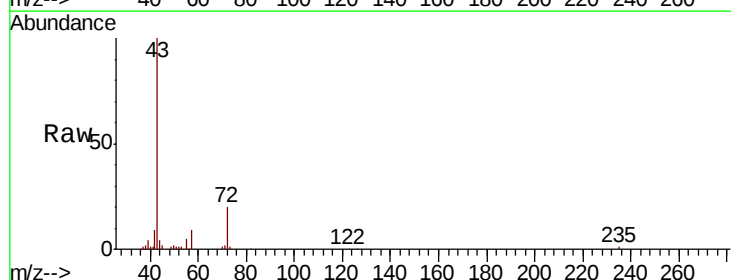
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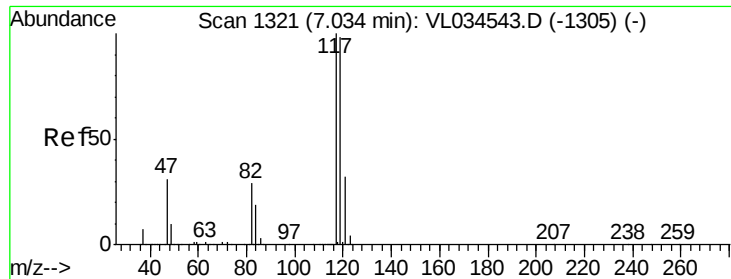
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#34
 2-Butanone
 Concen: 1.056 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.00 min
 Lab File: VL034546.D
 Acq: 2 Jan 2020 14:41

Tgt Ion: 43 Resp: 130268
 Ion Ratio Lower Upper
 43 100
 72 20.4 17.0 25.4





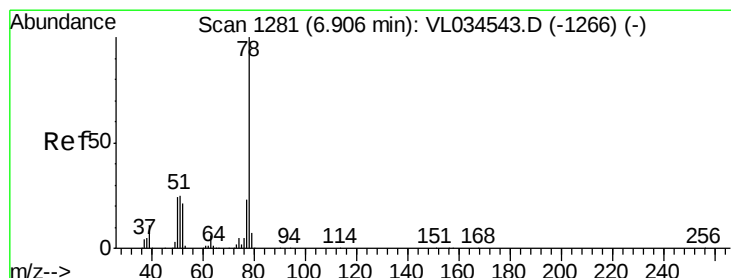
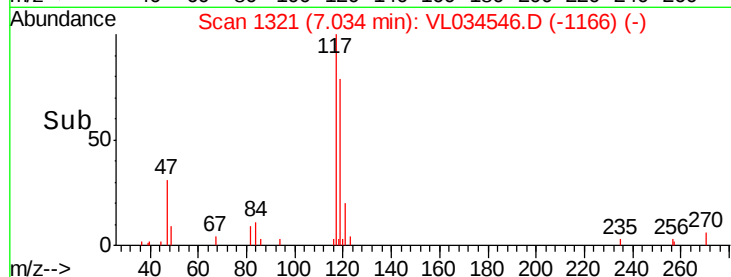
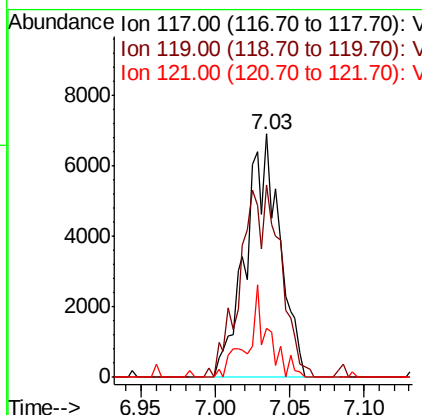
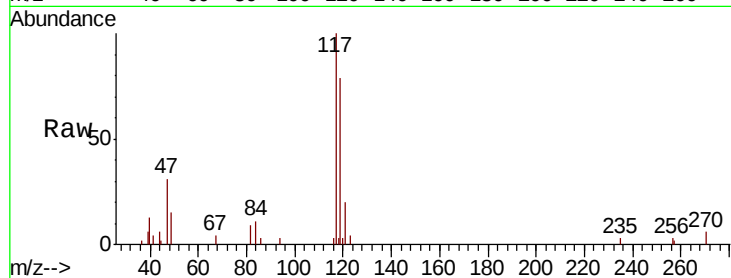
#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 7.03 min Scan# 1321
Delta R.T. -0.00 min
Lab File: VL034546.D
Acq: 2 Jan 2020 14:41

Instrument :
MSVOA_L
ClientSampled :
MJ-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	79.0	78.7	118.1
121	19.9	25.9	38.9#

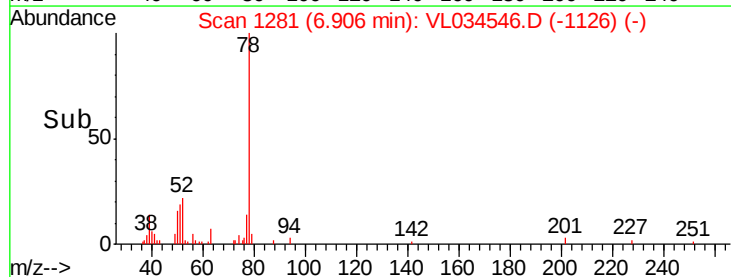
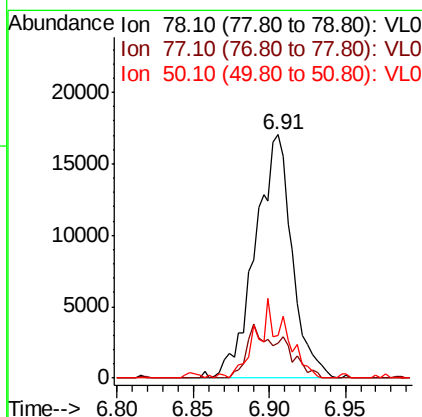
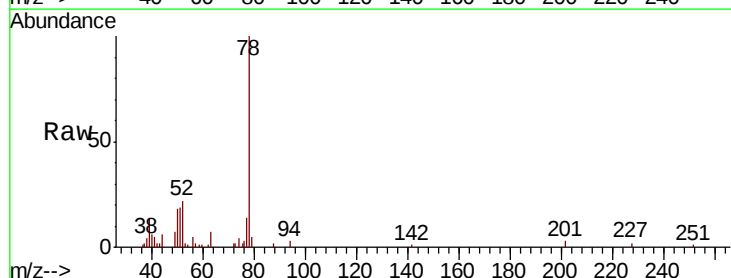
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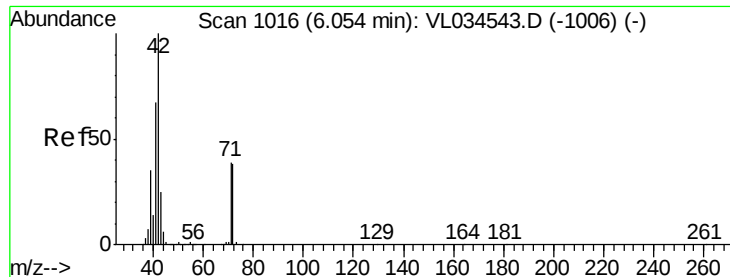
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#36
Benzene
Concen: 0.191 ppbv m
RT: 6.91 min Scan# 1281
Delta R.T. -0.00 min
Lab File: VL034546.D
Acq: 2 Jan 2020 14:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	14.2	18.6	28.0#
50	17.5	18.8	28.2#





#41

Tetrahydrofuran

Concen: 0.325 ppbv m

RT: 6.06 min Scan# 1018

Delta R.T. 0.01 min

Lab File: VL034546.D

Acq: 2 Jan 2020 14:41

Instrument :

MSVOA_L

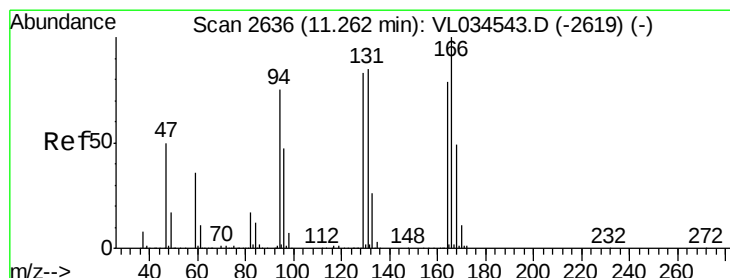
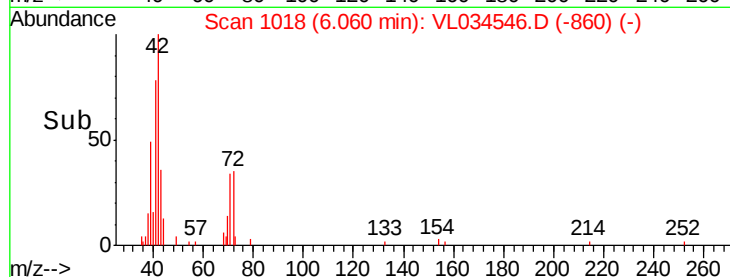
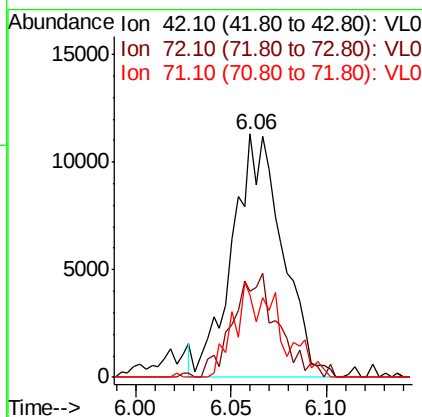
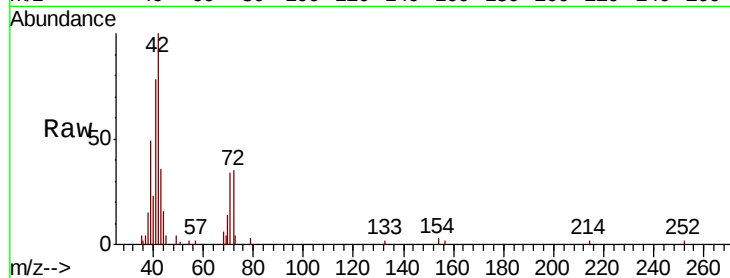
ClientSampled :

MJ-1

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.9	43.3#

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#52

Tetrachloroethene

Concen: 0.779 ppbv m

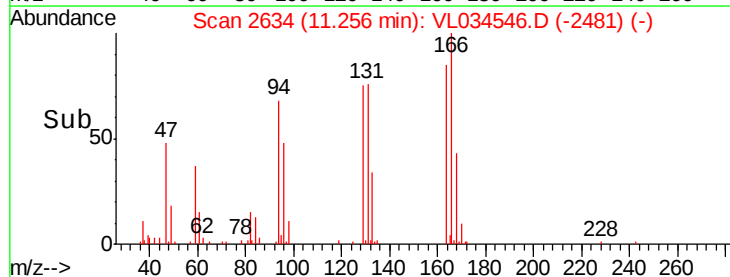
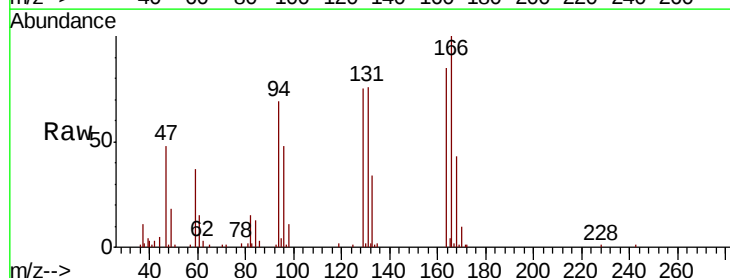
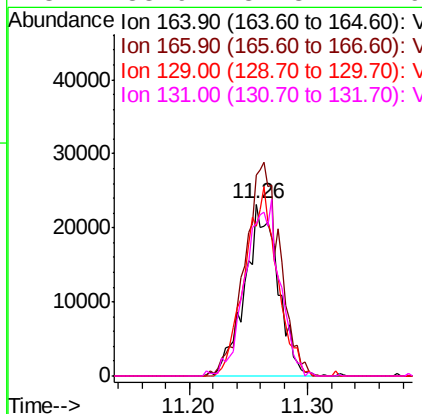
RT: 11.26 min Scan# 2634

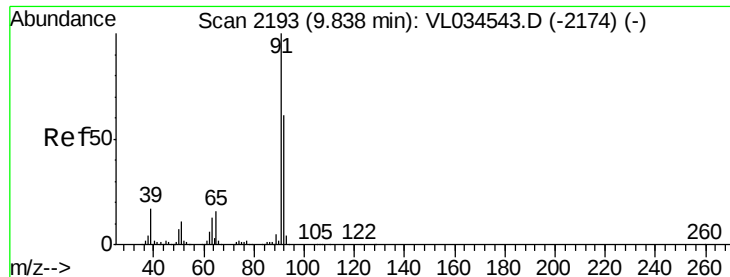
Delta R.T. -0.01 min

Lab File: VL034546.D

Acq: 2 Jan 2020 14:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	117.1	95.7	143.5
129	87.7	82.2	123.2
131	88.9	81.3	121.9





#53

Toluene

Concen: 0.799 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. -0.01 min

Lab File: VL034546.D

Acq: 2 Jan 2020 14:41

Instrument :

MSVOA_L

ClientSampled :

MJ-1

Tot Ion: 91 Resp: 132064

Ion Ratio Lower Upper

91 100

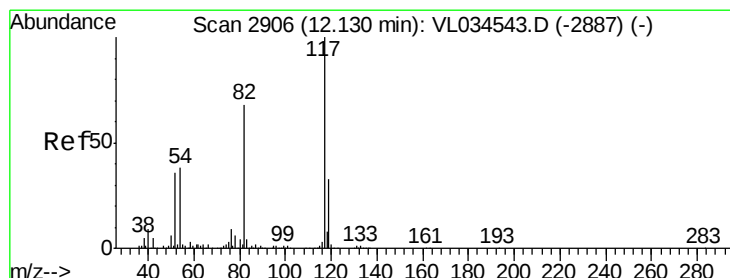
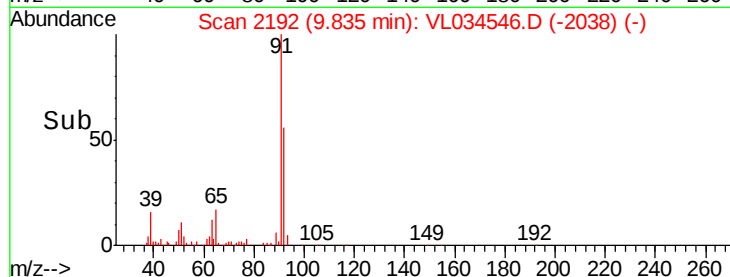
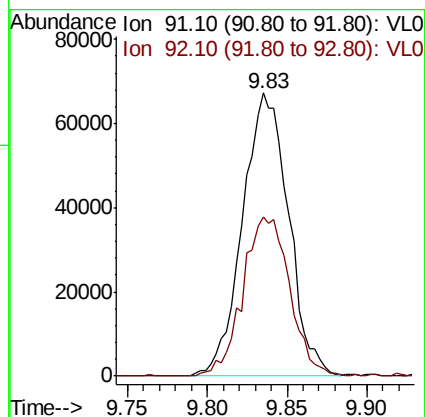
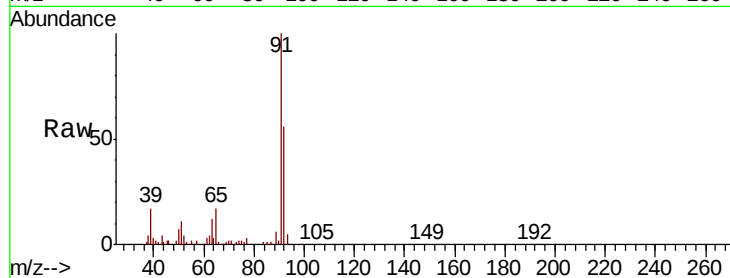
92 57.6 48.4 72.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. -0.01 min

Lab File: VL034546.D

Acq: 2 Jan 2020 14:41

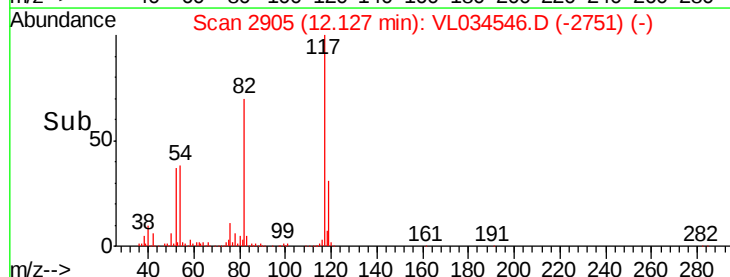
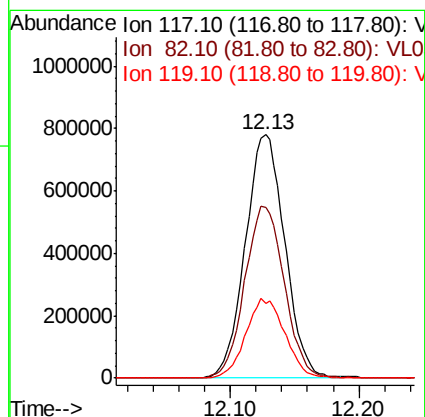
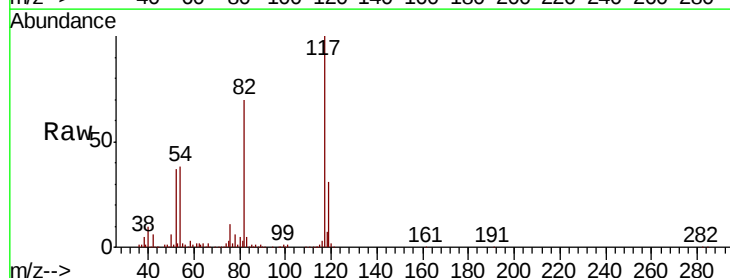
Tgt Ion: 117 Resp: 1665641

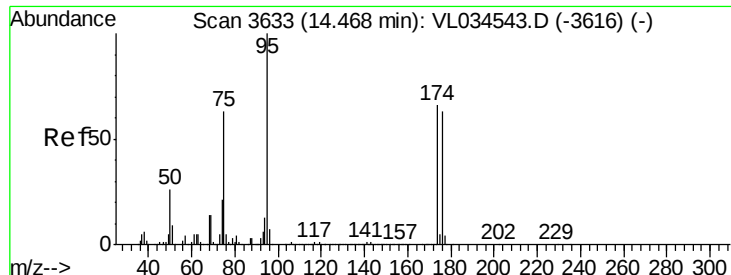
Ion Ratio Lower Upper

117 100

82 71.2 56.2 84.4

119 32.4 27.1 40.7





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.219 ppbv
 RT: 14.46 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VL034546.D
 Acq: 2 Jan 2020 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 MJ-1

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	65.1	52.4	78.6	
175	4.5	3.9	5.9	

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