

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037420.D
 Acq On : 12 Aug 2021 19:24
 Operator : SY/AP
 Sample : M3239-01REDL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1REDL

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Quant Time: Aug 13 12:21:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 2021
 QLast Update : Fri Aug 13 01:37:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1323882	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3941411	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3377098	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2421427	10.00	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	26076	0.100	ppbv #	89
9) Propene	3.02	41	20334m	0.233	ppbv	
10) Heptane	8.13	43	48857m	0.230	ppbv	
13) Ethanol	3.63	45	37531m	4.028	ppbv	
15) Acetone	3.86	43	336115m	2.394	ppbv	
17) tert-Butyl alcohol	4.34	59	10665m	0.080	ppbv	
20) Methylene Chloride	4.35	84	466799	6.288	ppbv	98
26) Hexane	5.69	57	401108	2.323	ppbv #	48
29) Chloroform	5.75	83	33634	0.138	ppbv	93
32) 1,1,1-Trichloroethane	6.51	97	9280m	0.038	ppbv	
34) 2-Butanone	5.27	43	63904m	0.393	ppbv	
51) 2-Hexanone	10.16	43	39584m	0.411	ppbv	
52) Tetrachloroethene	11.22	164	7996m	0.057	ppbv	
53) Toluene	9.81	91	237725	0.627	ppbv	99
59) m/p-Xylene	12.97	91	67880m	0.169	ppbv	
60) o-Xylene	13.70	91	45675m	0.122	ppbv	
61) Styrene	13.52	104	22155m	0.117	ppbv	
72) 4-Ethyltoluene	15.84	105	47238m	0.109	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	56041m	0.137	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	204634	0.487	ppbv #	67

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

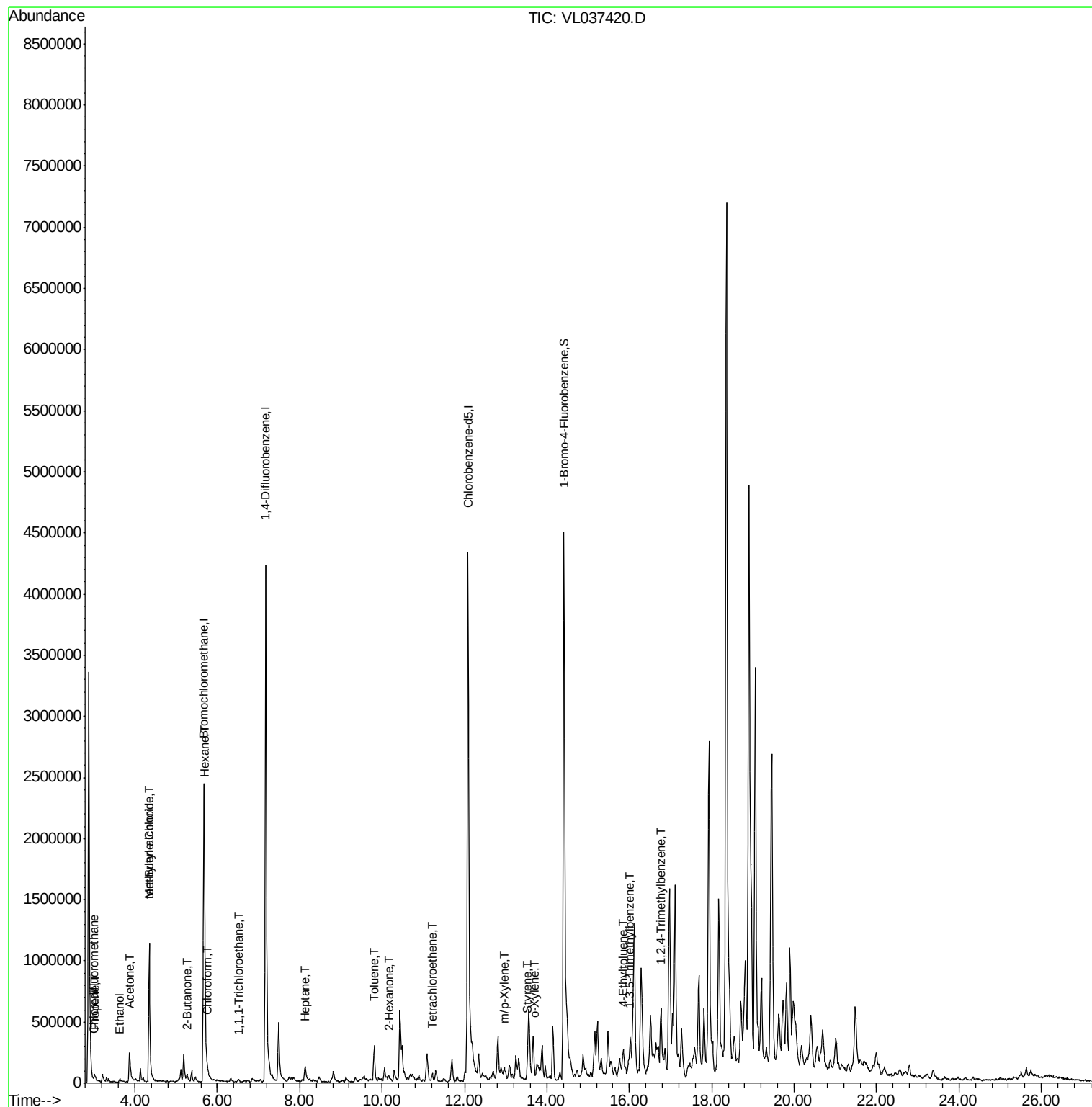
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081221\
Data File : VL037420.D
Acq On : 12 Aug 2021 19:24
Operator : SY/AP
Sample : M3239-01REDL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

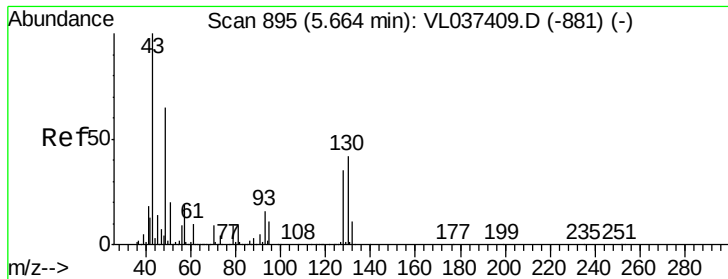
Instrument :
MSVOA_L
ClientSampleId :
SV1REDL

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Quant Time: Aug 13 12:21:25 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 13 01:37:35 2021
Response via : Initial Calibration





#1

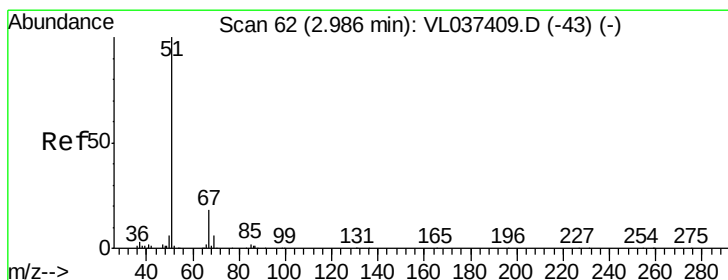
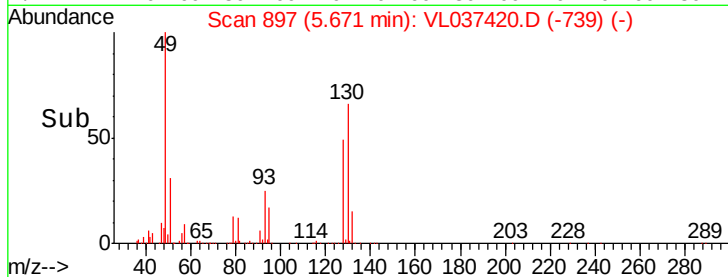
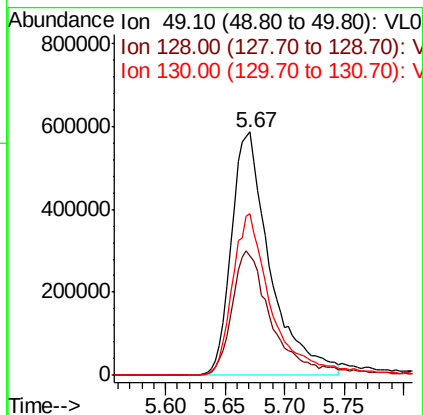
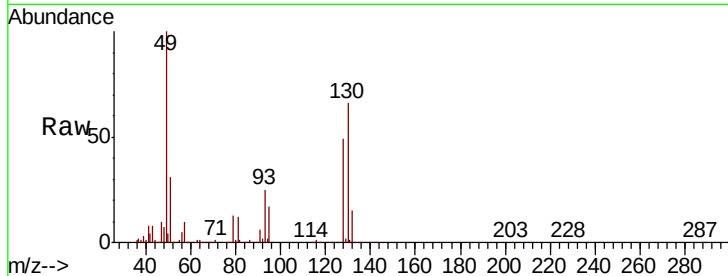
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. 0.01 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1REDL

Tot Ion	Ratio	Lower	Upper
49	100		
128	54.7	27.9	83.6
130	69.5	34.6	103.8

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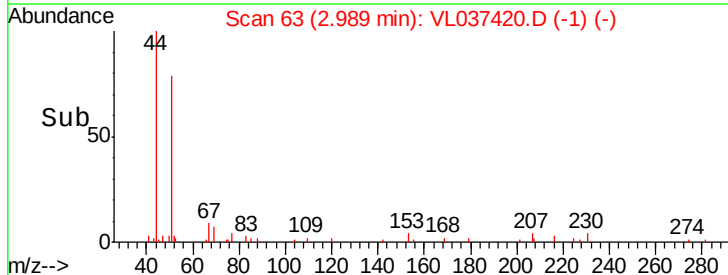
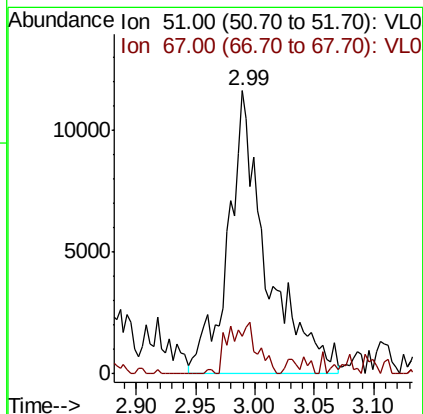
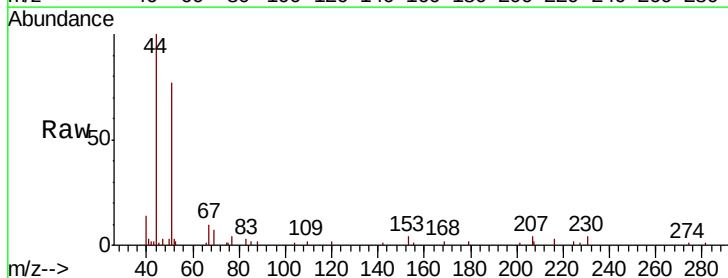
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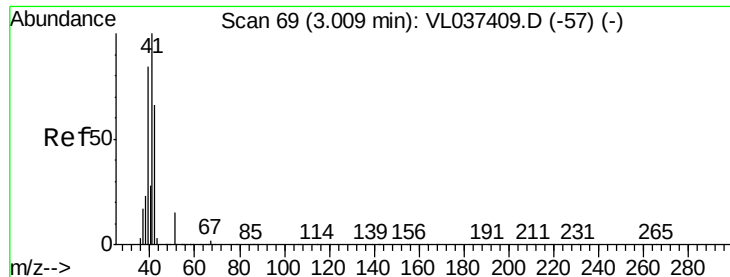


#3

Chlorodifluoromethane
 Concen: 0.100 ppbv
 RT: 2.99 min Scan# 63
 Delta R.T. 0.00 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Tgt Ion	Ratio	Lower	Upper
51	100		
67	13.5	14.7	22.1#





#9

Propene

Concen: 0.233 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037420.D

Acq: 12 Aug 2021 19:24

Instrument :

MSVOA_L

ClientSampleId :

SV1REDL

Tot Ion: 41 Resp: 20334

Ion Ratio Lower Upper

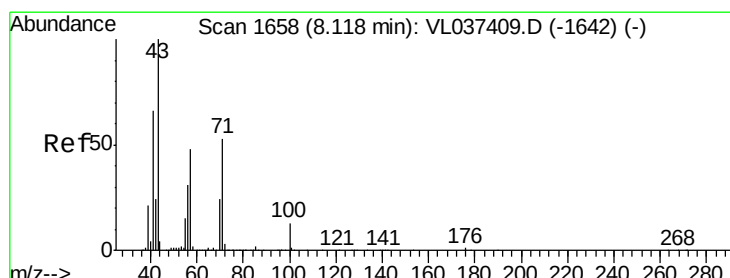
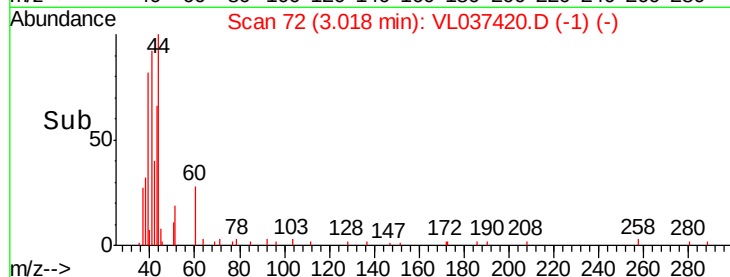
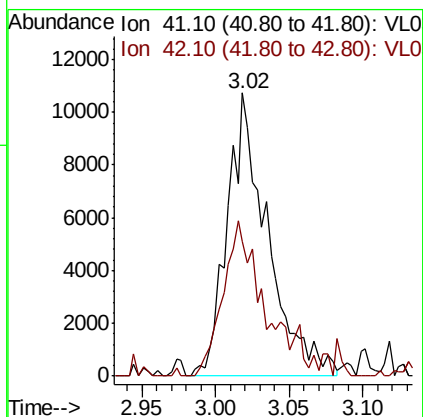
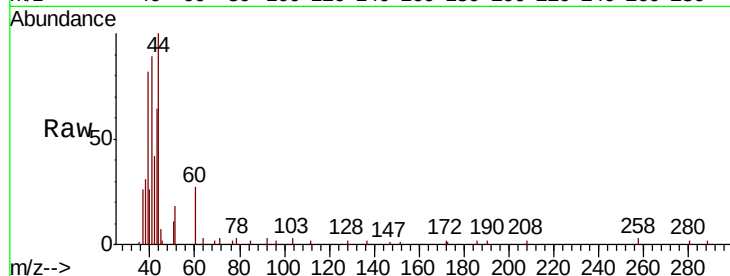
41 100

42 21.7 53.8 80.8#

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#10

Heptane

Concen: 0.230 ppbv m

RT: 8.13 min Scan# 1661

Delta R.T. 0.01 min

Lab File: VL037420.D

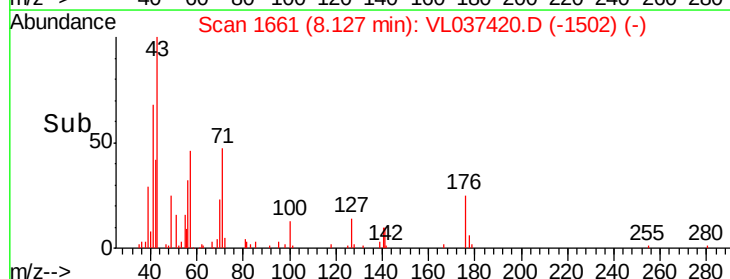
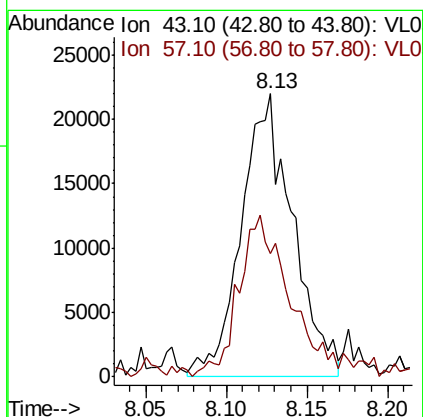
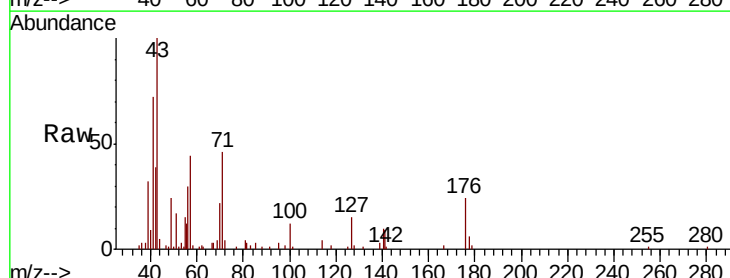
Acq: 12 Aug 2021 19:24

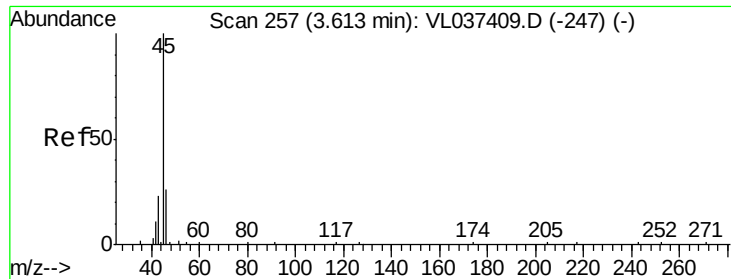
Tgt Ion: 43 Resp: 48857

Ion Ratio Lower Upper

43 100

57 59.6 40.3 60.5





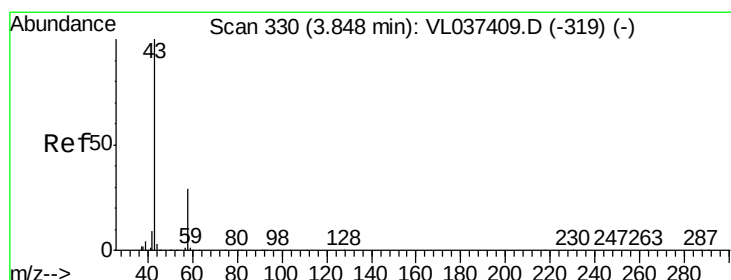
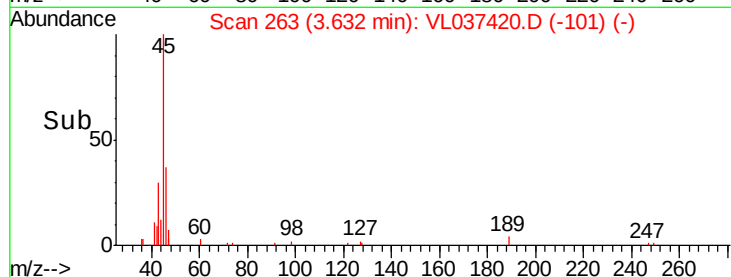
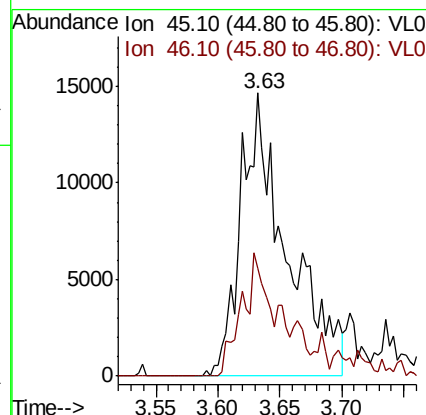
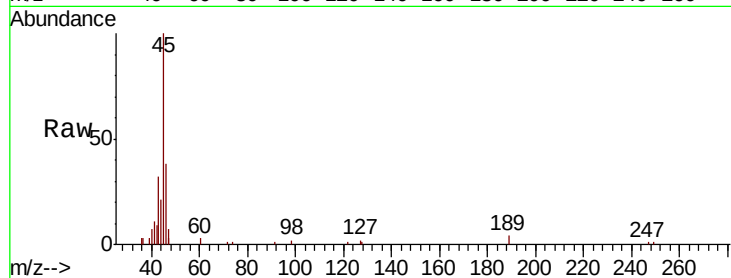
#13
Ethanol
Concen: 4.028 ppbv m
RT: 3.63 min Scan# 263
Delta R.T. 0.02 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
SV1REDL

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.0	72.2#

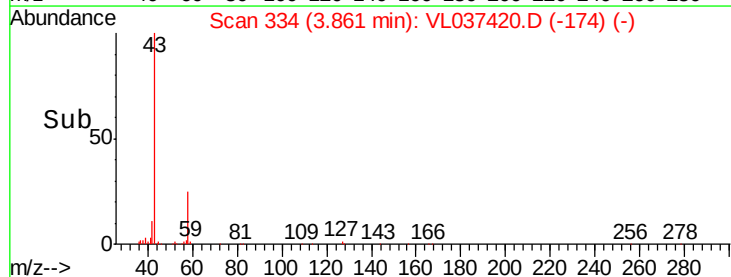
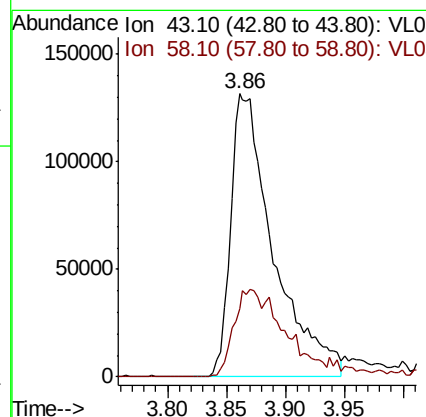
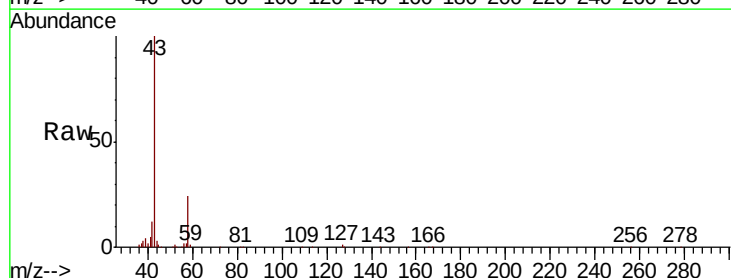
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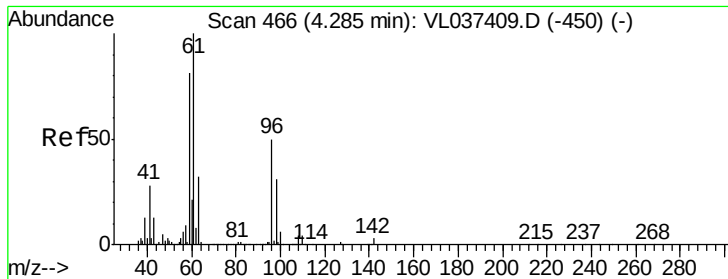
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#15
Acetone
Concen: 2.394 ppbv m
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	24.4	36.6#





#17

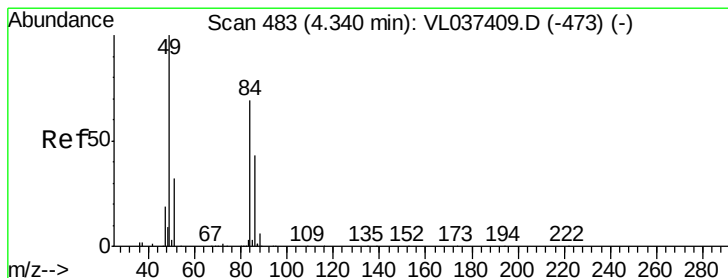
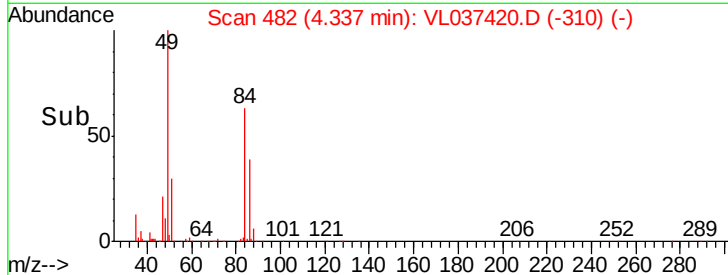
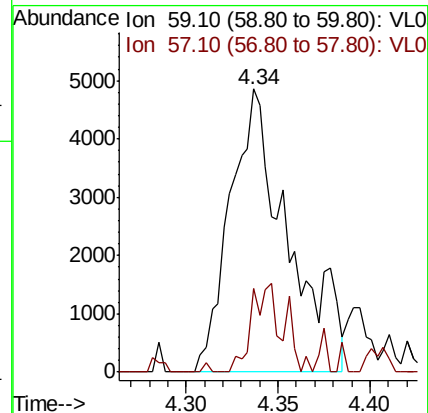
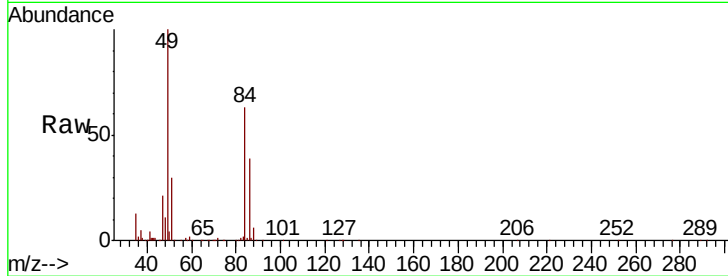
tert-Butyl alcohol
Concen: 0.080 ppbv m
RT: 4.34 min Scan# 482
Delta R.T. 0.05 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Instrument :
MSVOA_L
ClientSampled :
SV1REDL

Tot Ion	59	Resp	10665
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.5	12.7#

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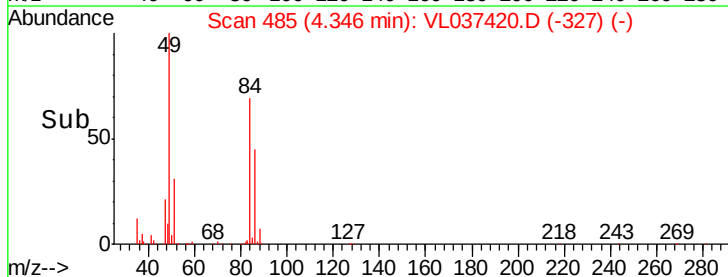
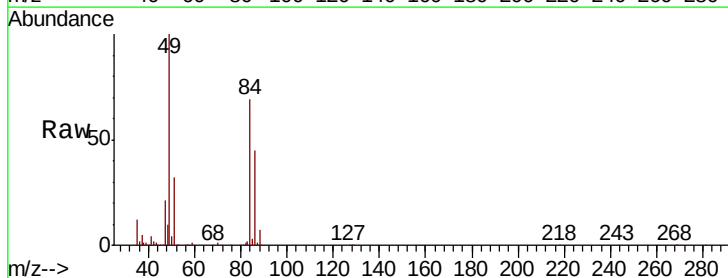
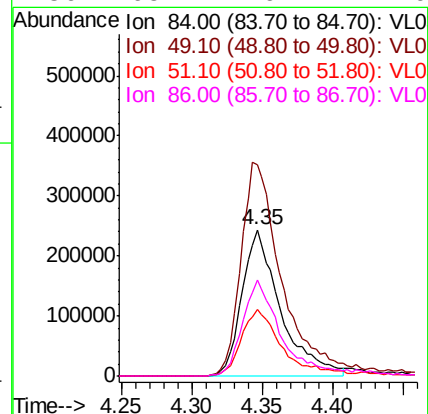
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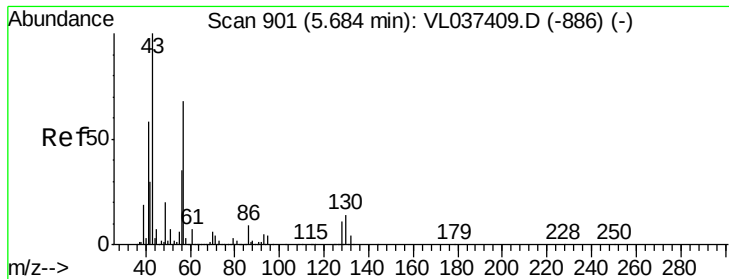


#20

Methylene Chloride
Concen: 6.288 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Tgt Ion	84	Resp	466799
Ion	Ratio	Lower	Upper
84	100		
49	144.1	116.0	174.0
51	45.5	37.1	55.7
86	65.4	49.4	74.0





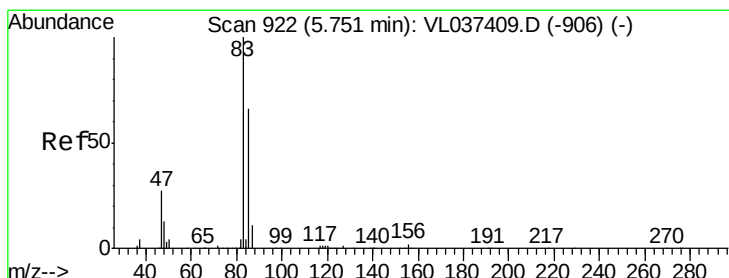
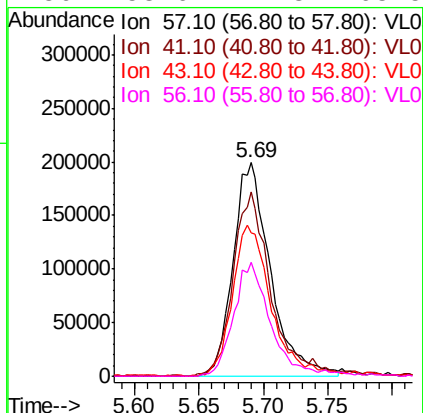
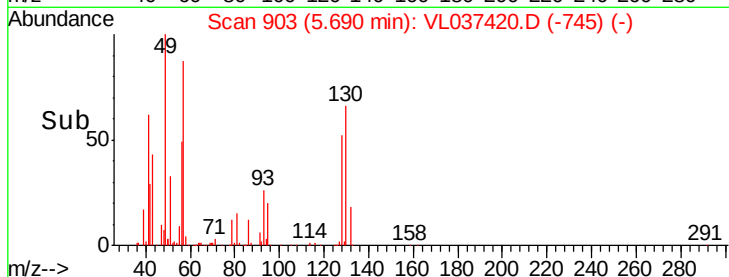
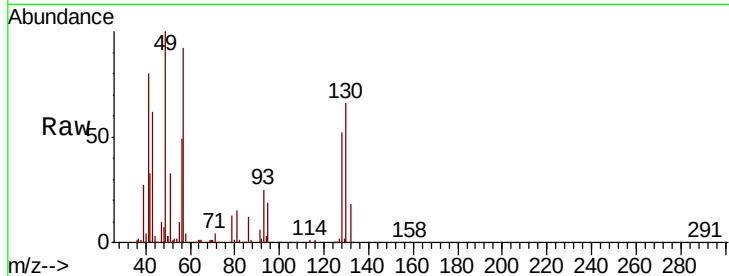
#26
Hexane
Concen: 2.323 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
SV1REDL

Tot Ion	57	Resp	401108
Ion	Ratio	Lower	Upper
57	100		
41	90.4	72.5	108.7
43	74.3	169.3	253.9#
56	53.6	42.3	63.5

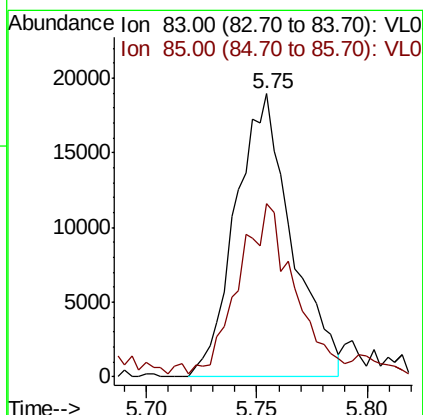
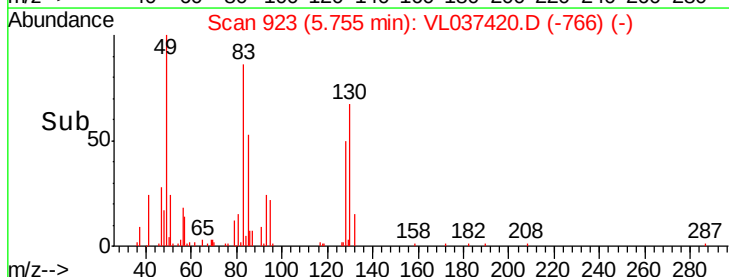
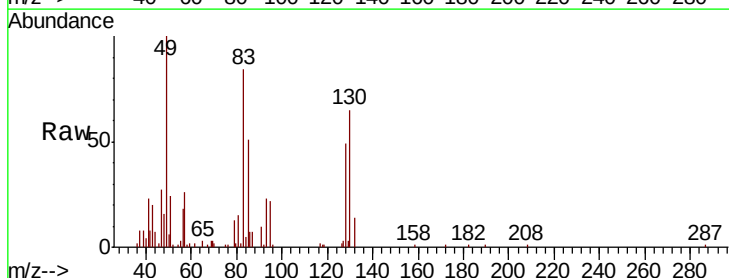
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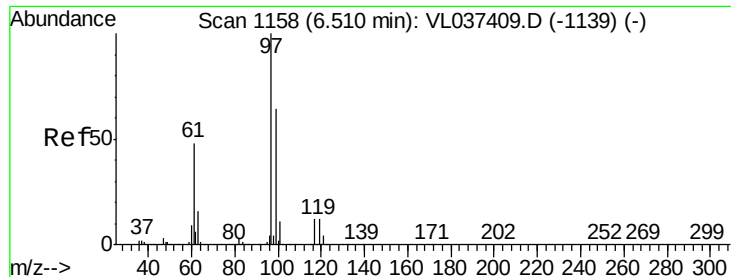
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#29
Chloroform
Concen: 0.138 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.00 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Tgt Ion	83	Resp	33634
Ion	Ratio	Lower	Upper
83	100		
85	60.1	52.4	78.6





#32

1,1,1-Trichloroethane

Concen: 0.038 ppbv m

RT: 6.51 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VL037420.D

Acq: 12 Aug 2021 19:24

Instrument :

MSVOA_L

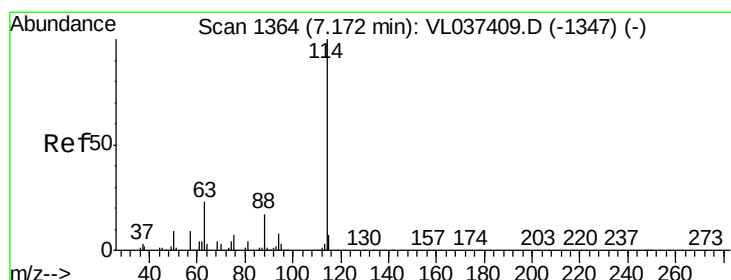
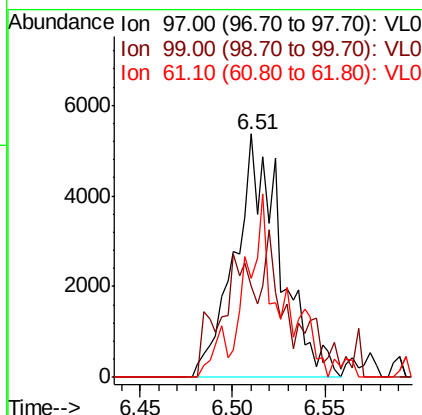
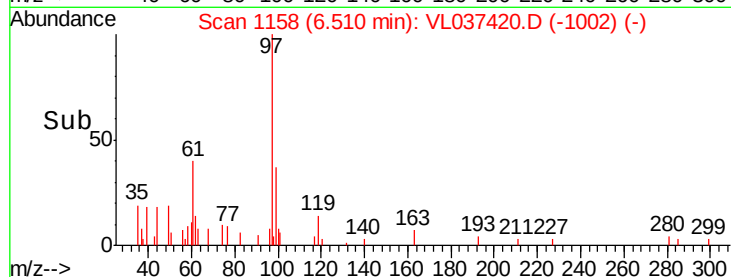
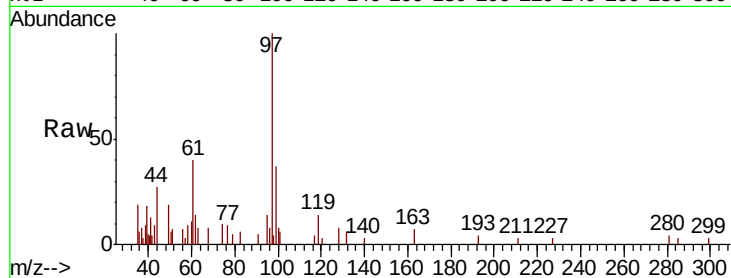
ClientSampleId :

SV1REDL

Tot Ion:	97	Resp:	9280
Ion	Ratio	Lower	Upper
97	100		
99	72.2	52.3	78.5
61	63.0	40.1	60.1#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

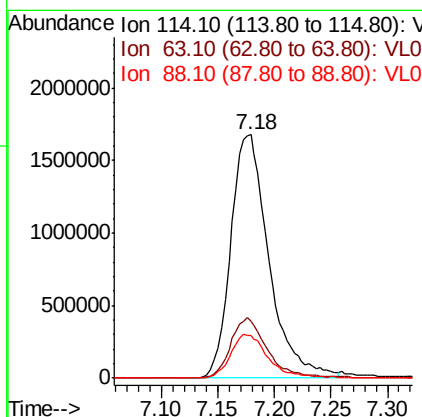
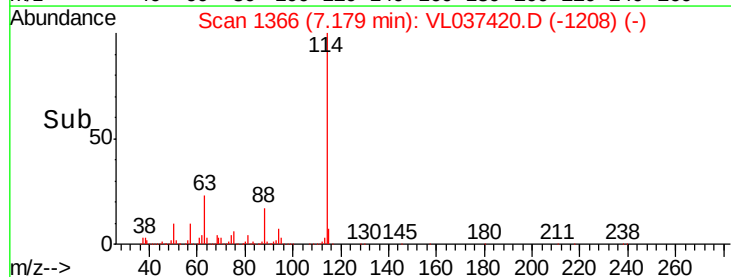
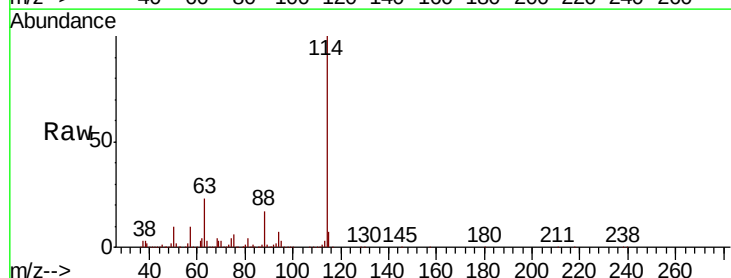
RT: 7.18 min Scan# 1366

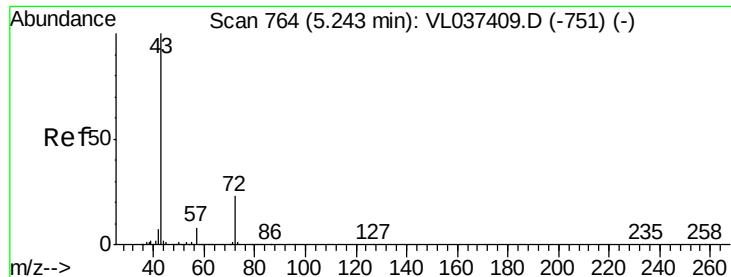
Delta R.T. 0.01 min

Lab File: VL037420.D

Acq: 12 Aug 2021 19:24

Tgt Ion:	114	Resp:	3941411
Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.4	29.2
88	18.1	14.2	21.4





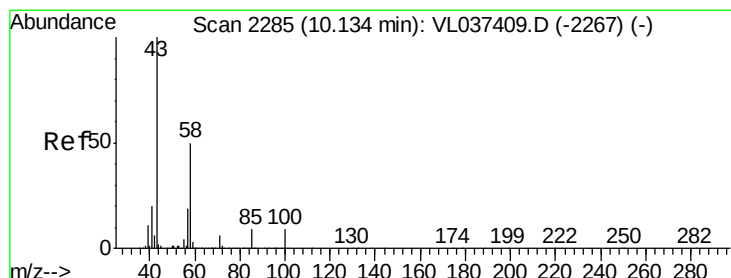
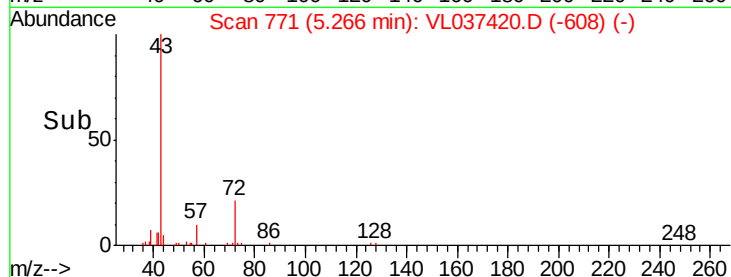
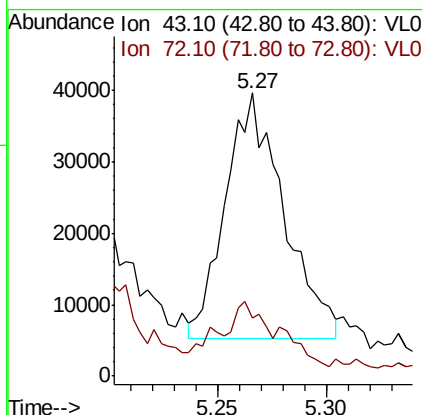
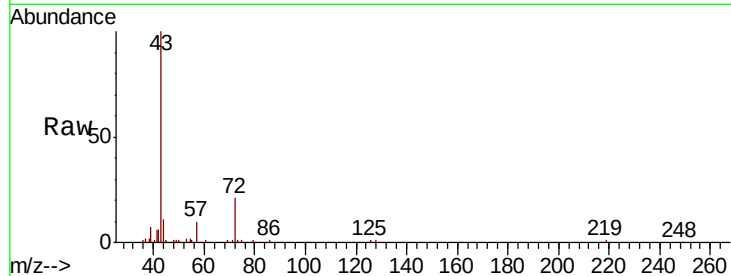
#34
 2-Butanone
 Concen: 0.393 ppbv m
 RT: 5.27 min Scan# 771
 Delta R.T. 0.02 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1REDL

Tot Ion: 43 Resp: 63904
 Ion Ratio Lower Upper
 43 100
 72 42.8 17.7 26.5#

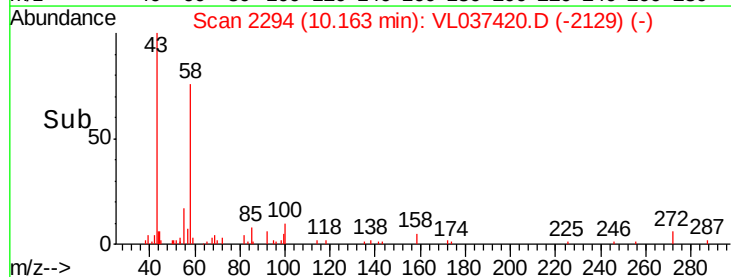
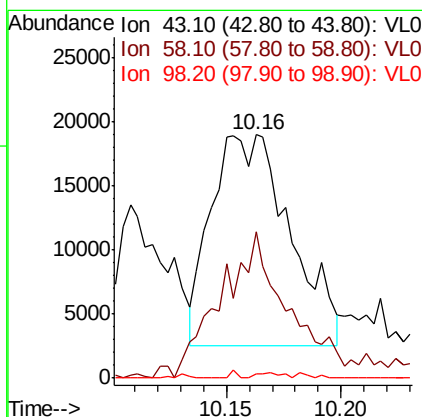
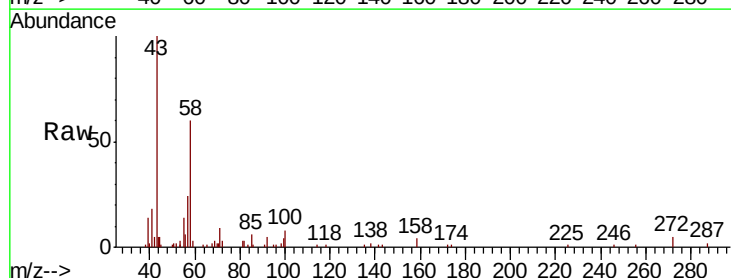
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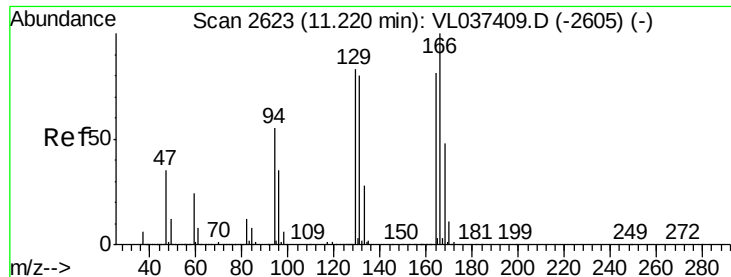
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#51
 2-Hexanone
 Concen: 0.411 ppbv m
 RT: 10.16 min Scan# 2294
 Delta R.T. 0.03 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Tgt Ion: 43 Resp: 39584
 Ion Ratio Lower Upper
 43 100
 58 0.0 39.9 59.9#
 98 0.0 0.2 0.2#





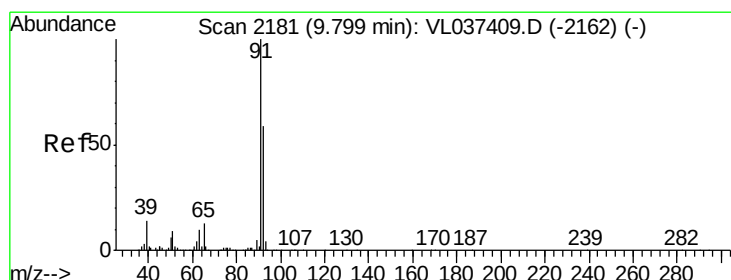
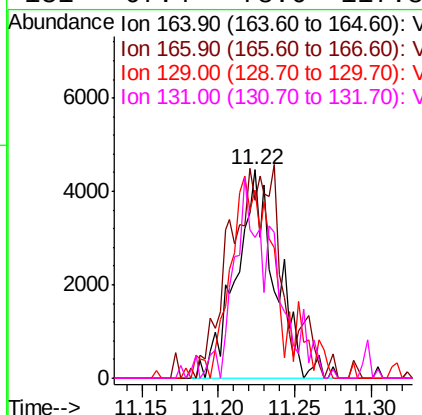
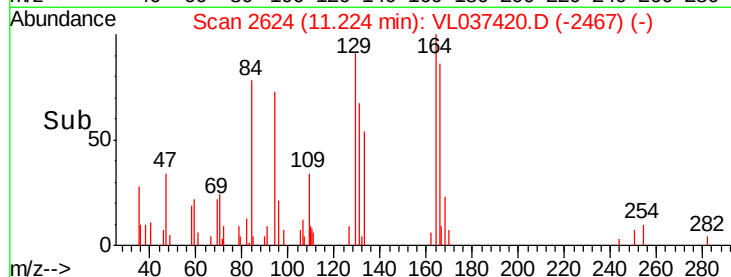
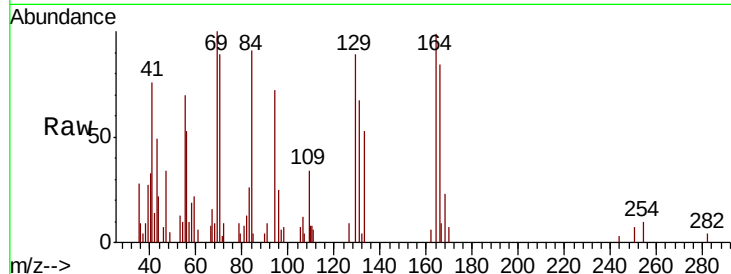
#52
Tetrachloroethene
Concen: 0.057 ppbv m
RT: 11.22 min Scan# 2624
Delta R.T. 0.00 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
SV1REDL

Tot Ion	Ratio	Lower	Upper
164	100		
166	85.5	98.6	147.8#
129	90.6	82.0	123.0
131	67.4	78.6	117.8#

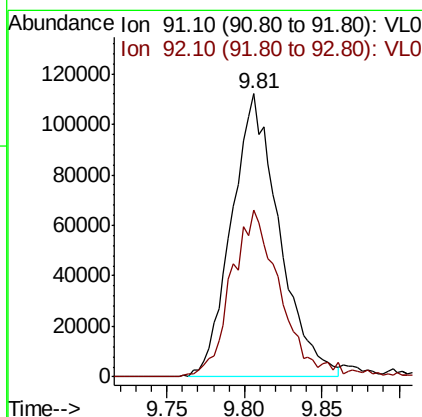
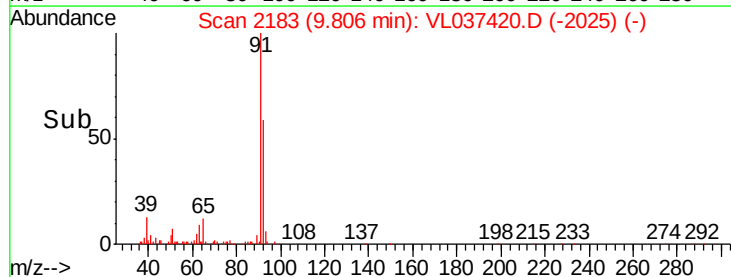
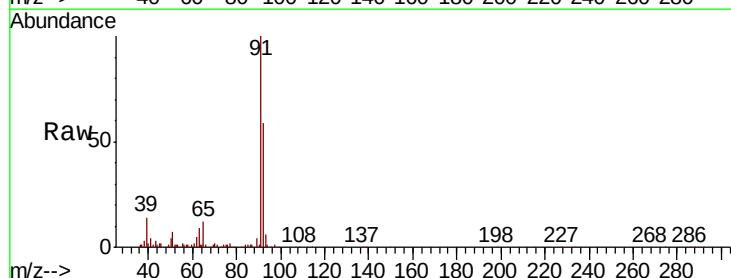
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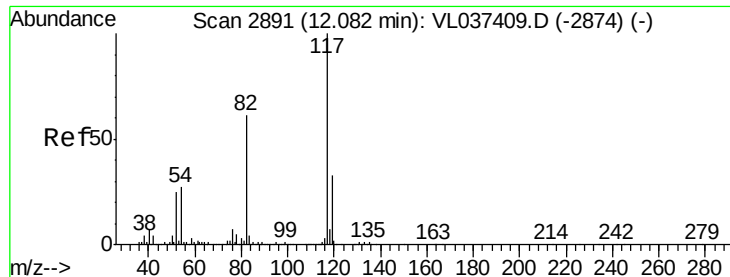
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#53
Toluene
Concen: 0.627 ppbv
RT: 9.81 min Scan# 2183
Delta R.T. 0.01 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	62.0	49.0	73.6





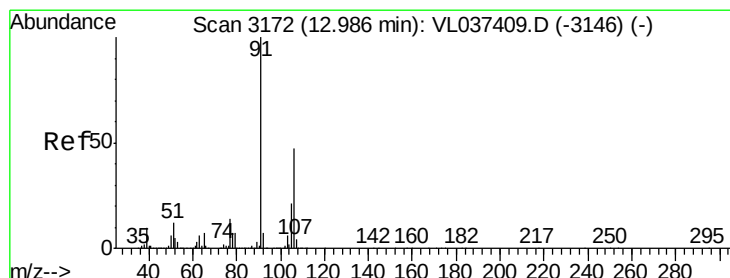
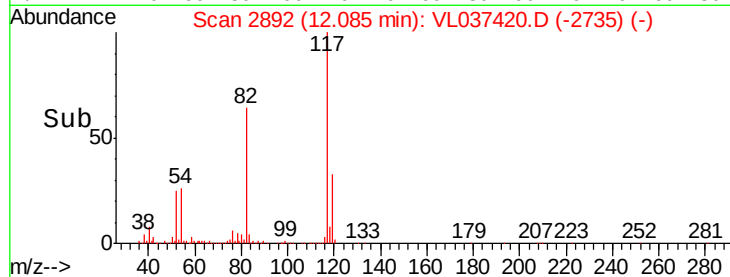
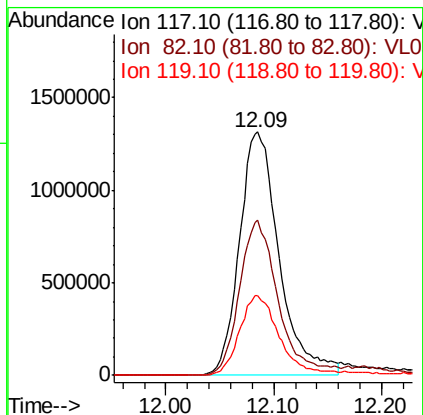
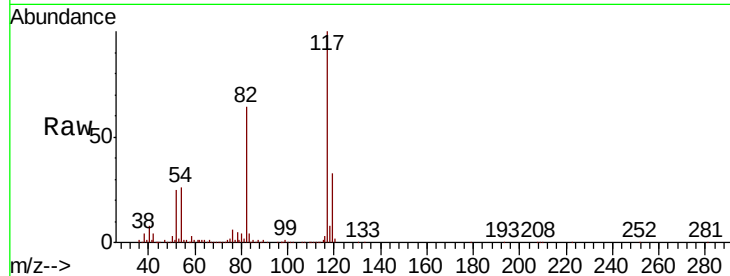
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. 0.00 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
SV1REDL

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.1	53.1	79.7
119	34.1	28.0	42.0

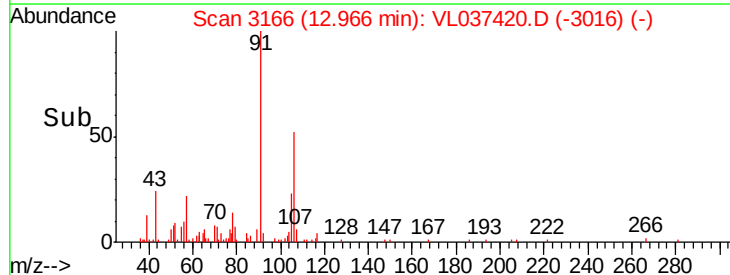
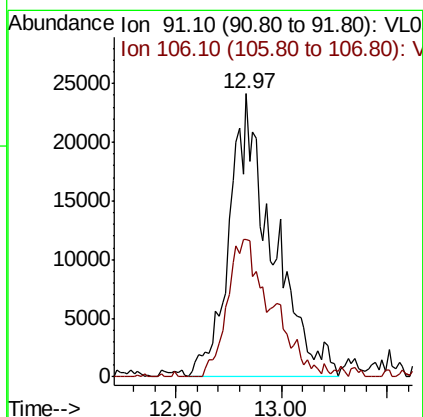
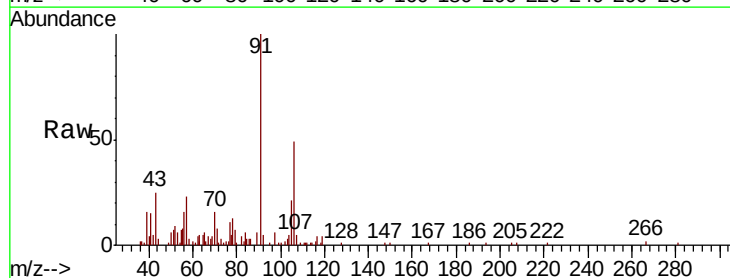
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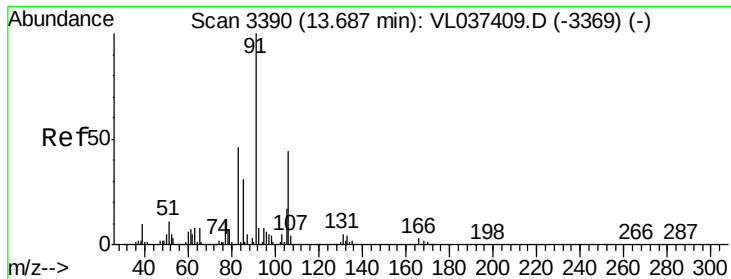
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#59
m/p-Xylene
Concen: 0.169 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.02 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.6	54.8#





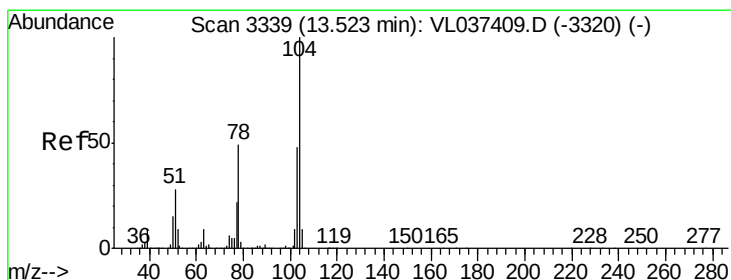
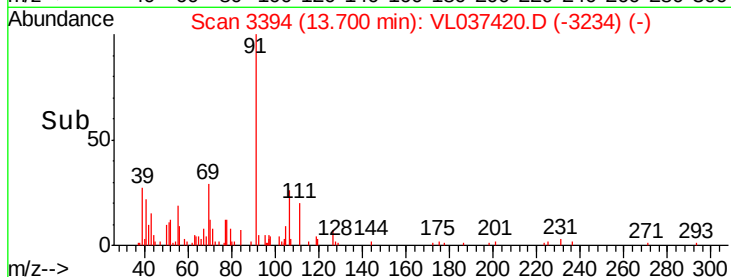
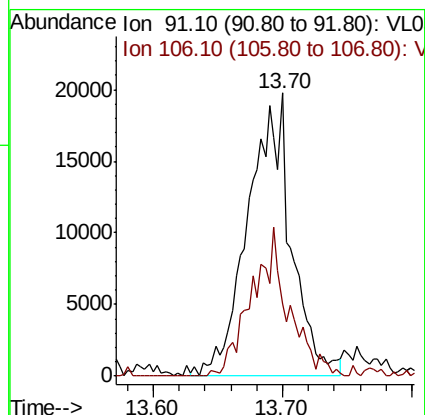
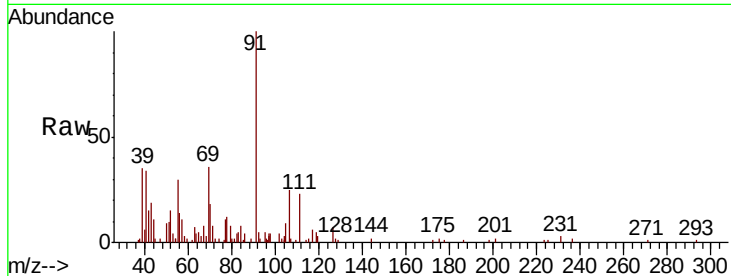
#60
o-Xylene
Concen: 0.122 ppbv m
RT: 13.70 min Scan# 3394
Delta R.T. 0.01 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Instrument :
MSVOA_L
ClientSampled :
SV1REDL

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.2	24.1	72.2

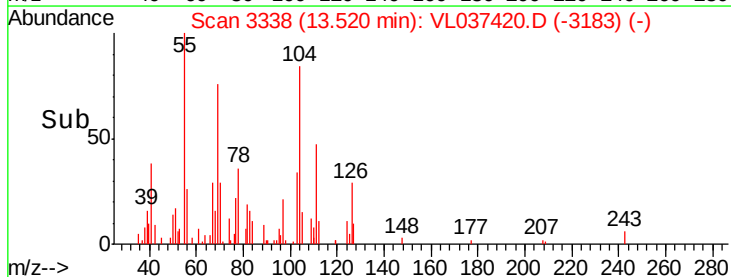
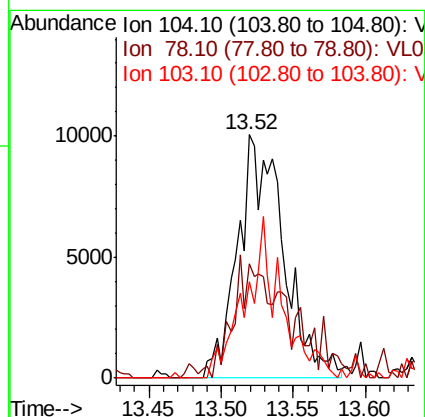
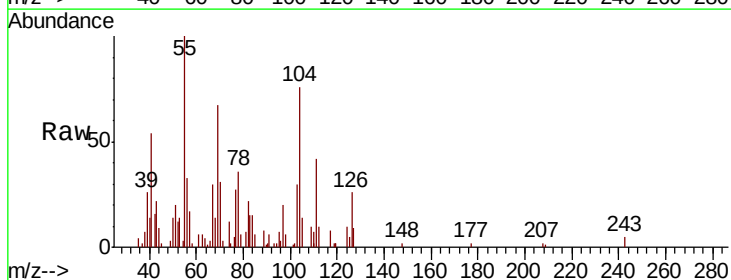
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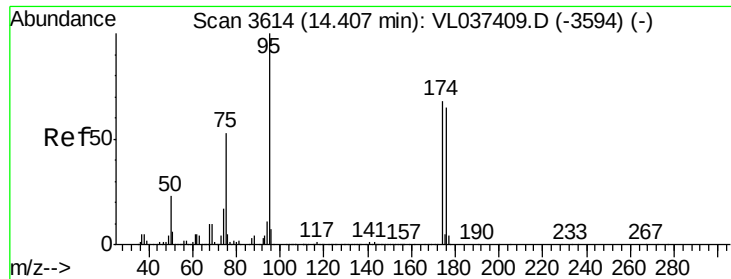
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#61
Styrene
Concen: 0.117 ppbv m
RT: 13.52 min Scan# 3338
Delta R.T. -0.00 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Tgt Ion	Ratio	Lower	Upper
104	100		
78	0.0	41.5	62.3#
103	54.2	40.2	60.2





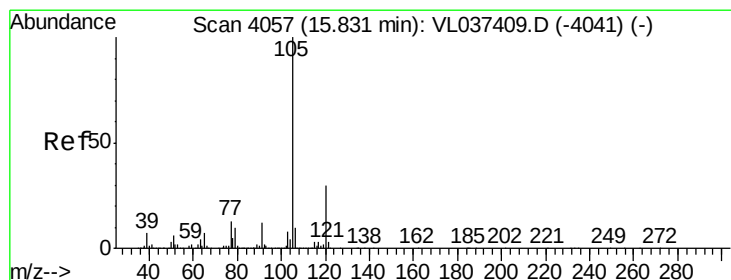
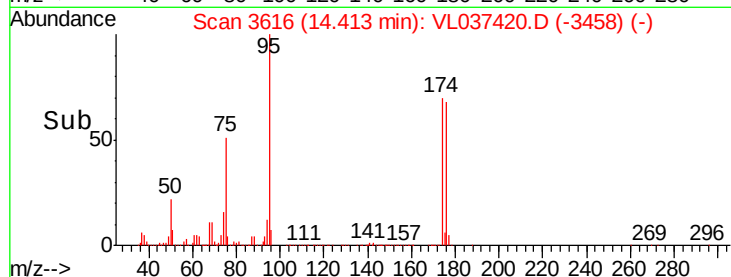
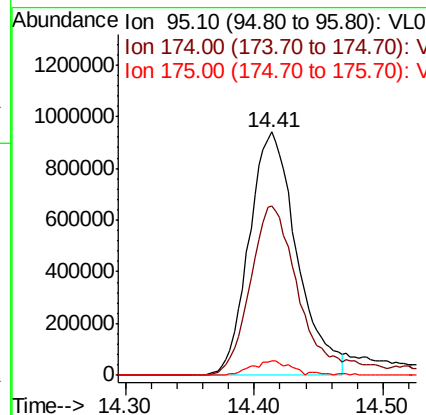
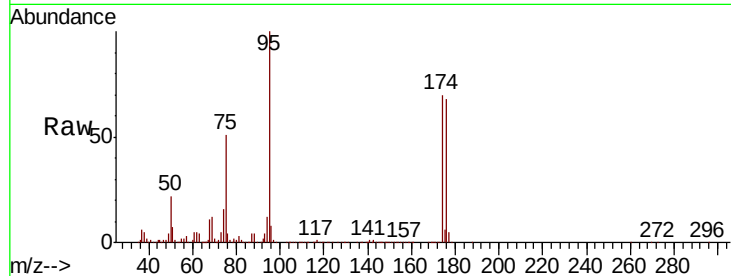
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.995 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. 0.01 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1REDL

Tot Ion: 95 Resp: 2421427
 Ion Ratio Lower Upper
 95 100
 174 78.5 59.6 89.4
 175 5.6 4.3 6.5

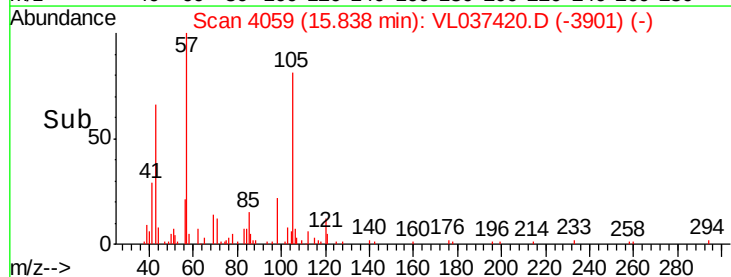
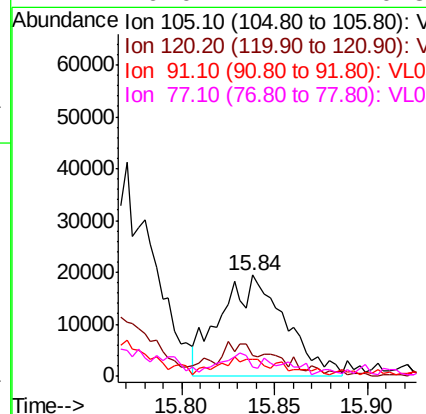
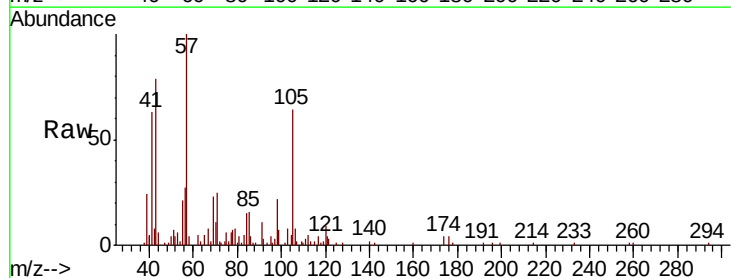
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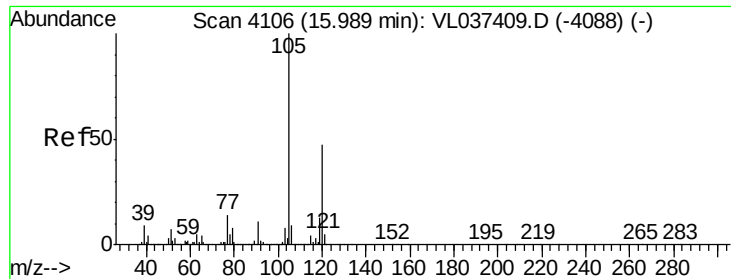
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#72
 4-Ethyltoluene
 Concen: 0.109 ppbv m
 RT: 15.84 min Scan# 4059
 Delta R.T. 0.01 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Tgt Ion: 105 Resp: 47238
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.0 37.4#
 91 0.0 11.2 16.8#
 77 0.0 11.2 16.8#





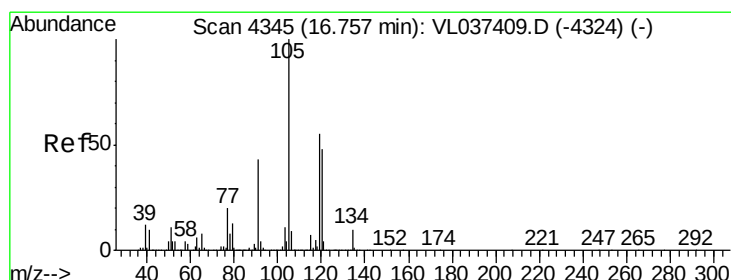
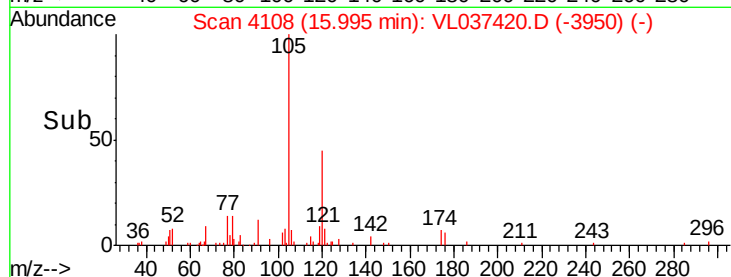
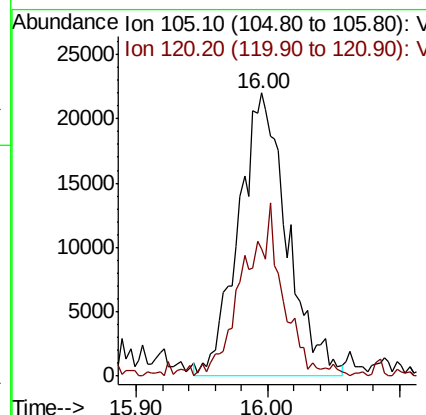
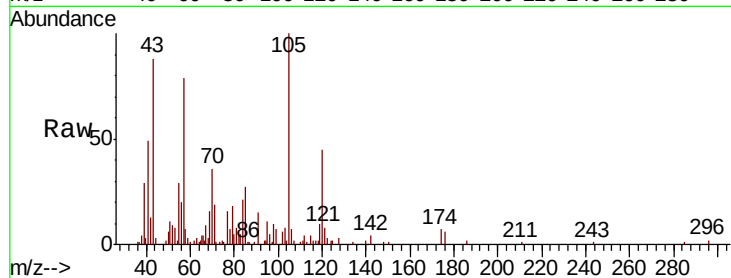
#73
 1,3,5-Trimethylbenzene
 Concen: 0.137 ppbv m
 RT: 16.00 min Scan# 4108
 Delta R.T. 0.01 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Instrument :
 MSVOA_L
 ClientSampleID :
 SV1REDL

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.8	37.4	56.0

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.487 ppbv
 RT: 16.76 min Scan# 4346
 Delta R.T. 0.00 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	34.2	38.2	57.2#
91	11.1	35.4	53.2#
77	10.2	16.2	24.2#

