

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
 Data File : VL037396.D
 Acq On : 11 Aug 2021 19:14
 Operator : SY/AP
 Sample : M3157-05DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-EFFLUENTDUP

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 8/12/2021 10:17:12 AM

Quant Time: Aug 12 05:55:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 11 2021
 QLast Update : Wed Aug 11 09:01:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1052923	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3231058	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2808182	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	1964225	9.38	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	30585	0.161	ppbv	100
3) Chlorodifluoromethane	2.98	51	330550m	1.688	ppbv	
4) Chloromethane	3.14	50	17151m	0.238	ppbv	
9) Propene	3.02	41	20504m	0.308	ppbv	
11) Trichlorofluoromethane	3.95	101	75387m	0.471	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.48	101	10967m	0.096	ppbv	
13) Ethanol	3.61	45	124560	15.482	ppbv	87
15) Acetone	3.85	43	368994m	3.678	ppbv	
19) Isopropyl Alcohol	3.98	45	112606m	1.950	ppbv	
20) Methylene Chloride	4.35	84	706744	12.974	ppbv	96
22) trans-1,2-Dichloroethene	4.89	96	7504m	0.154	ppbv	
26) Hexane	5.68	57	543732	4.180	ppbv #	45
29) Chloroform	5.75	83	80282	0.430	ppbv #	77
31) cis-1,2-Dichloroethene	5.55	61	432086	3.707	ppbv	95
32) 1,1,1-Trichloroethane	6.51	97	76812m	0.425	ppbv	
34) 2-Butanone	5.25	43	67257	0.548	ppbv #	84
35) Carbon Tetrachloride	7.01	117	8535m	0.047	ppbv	
36) Benzene	6.89	78	74834m	0.292	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	96131	0.225	ppbv #	80
52) Tetrachloroethene	11.23	164	26330m	0.252	ppbv	
53) Toluene	9.81	91	335744	1.129	ppbv	99
59) m/p-Xylene	12.96	91	90351m	0.280	ppbv	

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

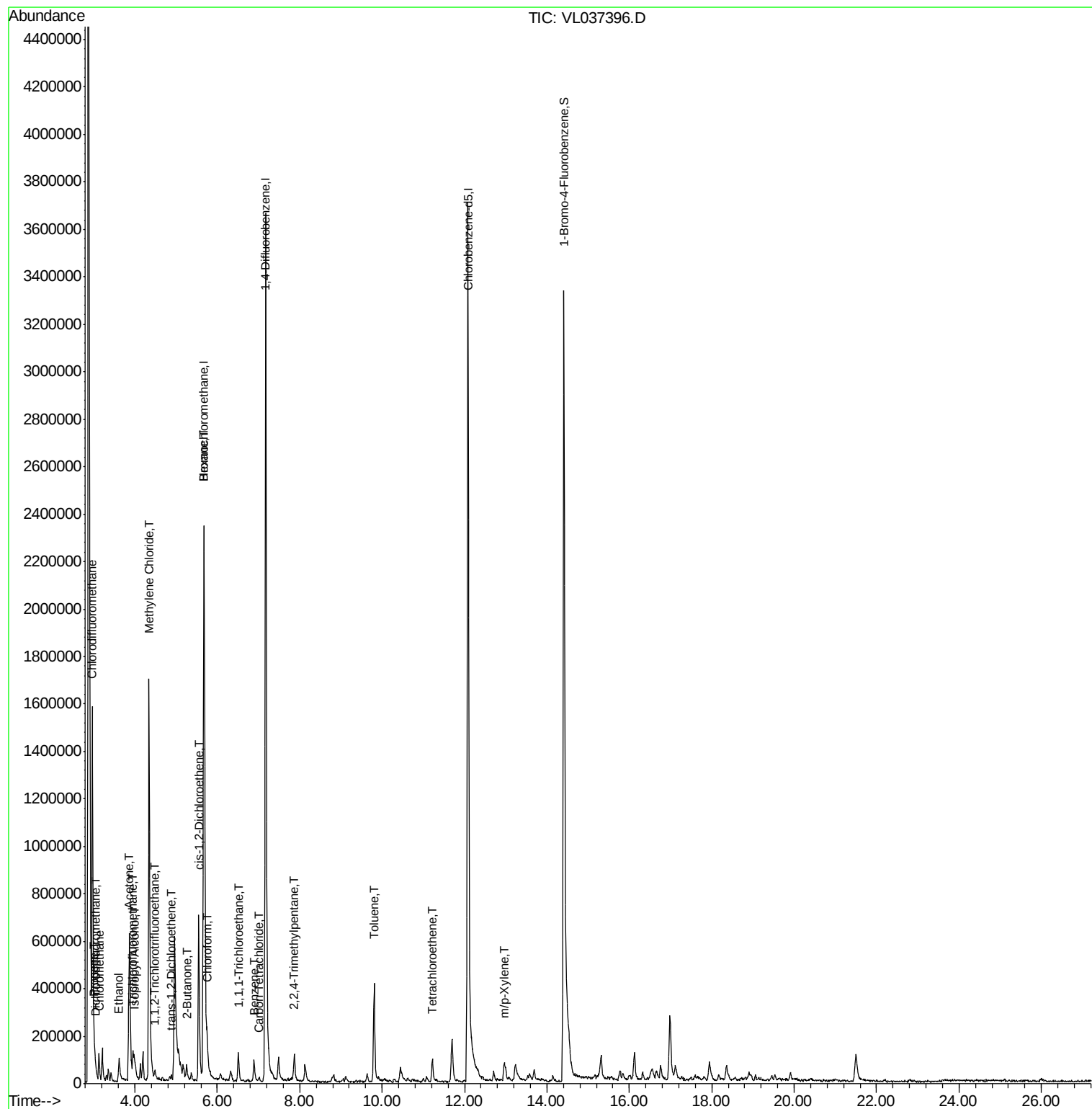
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081121\
Data File : VL037396.D
Acq On : 11 Aug 2021 19:14
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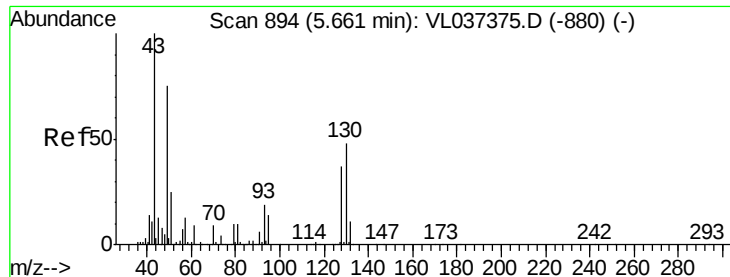
Instrument :
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Quant Time: Aug 12 05:55:20 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 11 09:01:07 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL037396.D

Acq: 11 Aug 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENTDUP

Tot Ion: 49 Resp: 1052923

Ion Ratio Lower Upper

49 100

128 56.5 28.1 84.4

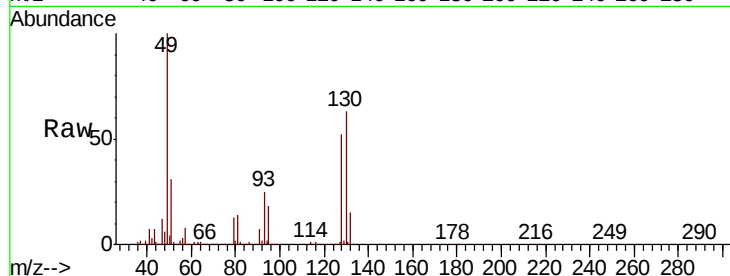
130 72.7 34.3 102.8

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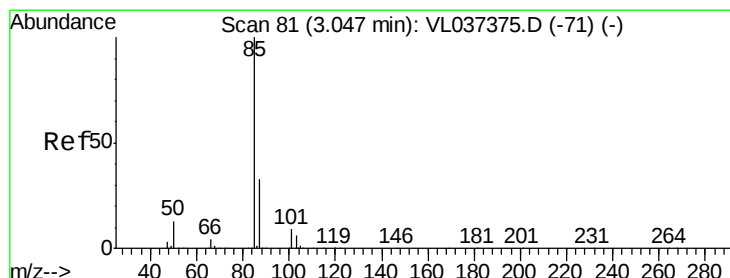
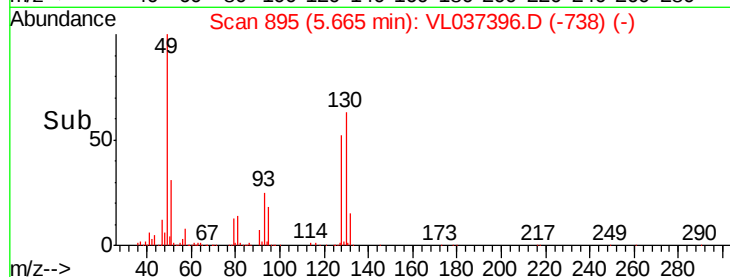
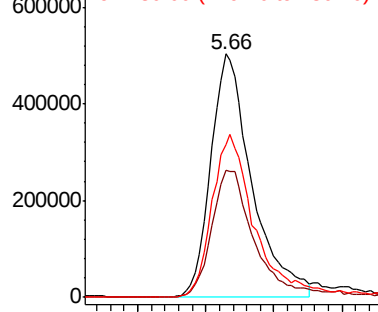
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.161 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL037396.D

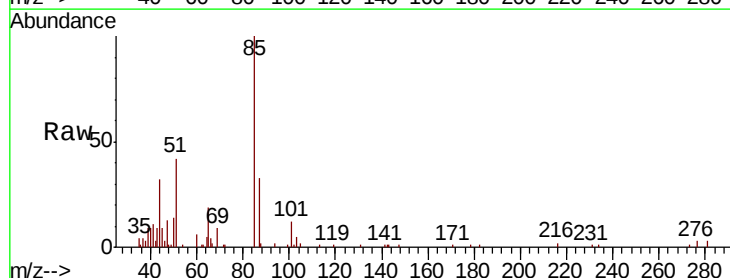
Acq: 11 Aug 2021 19:14

Tgt Ion: 85 Resp: 30585

Ion Ratio Lower Upper

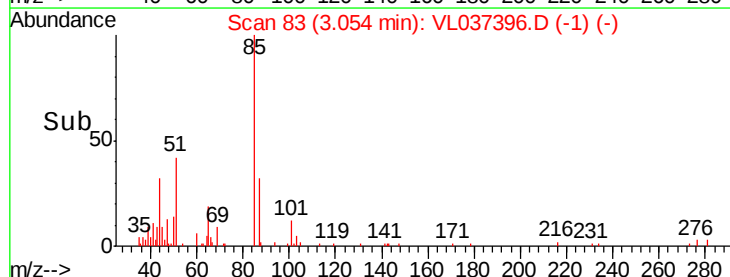
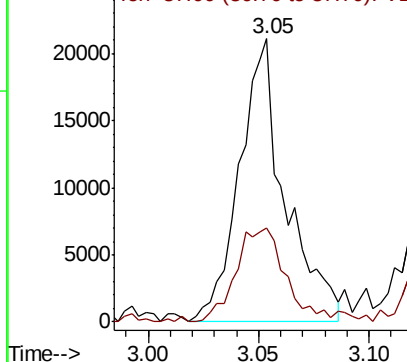
85 100

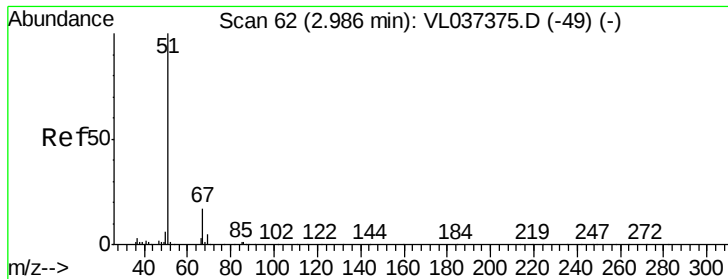
87 33.3 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.688 ppbv m

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL037396.D

Acq: 11 Aug 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENTDUP

Tot Ion: 51 Resp: 330550

Ion Ratio Lower Upper

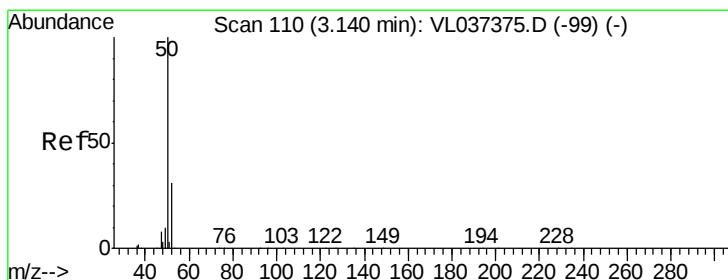
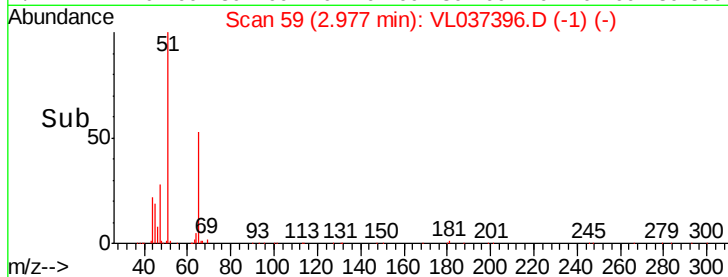
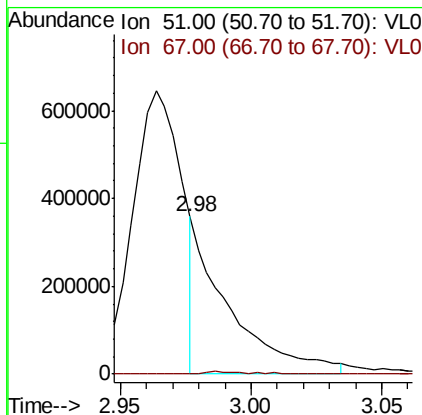
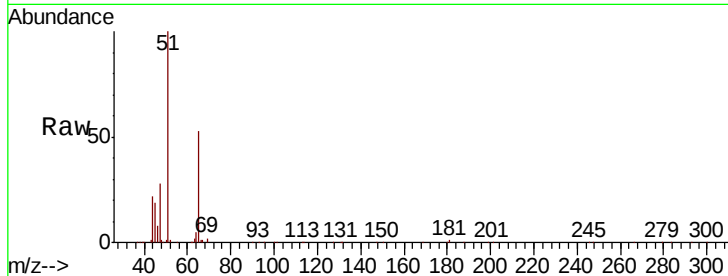
51 100

67 3.0 14.3 21.5#

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#4

Chloromethane

Concen: 0.238 ppbv m

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL037396.D

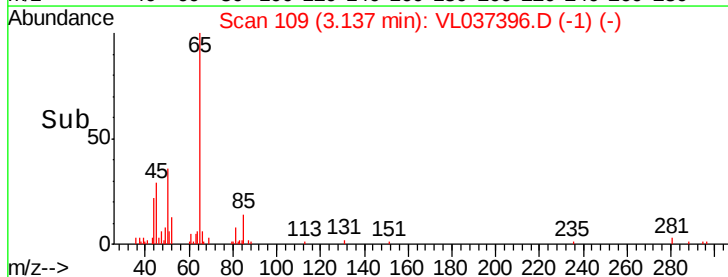
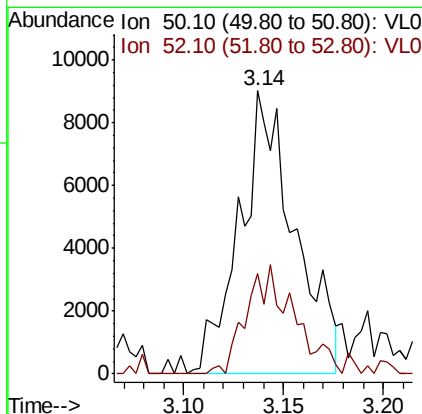
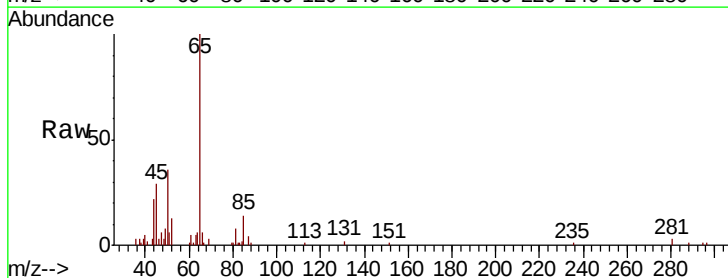
Acq: 11 Aug 2021 19:14

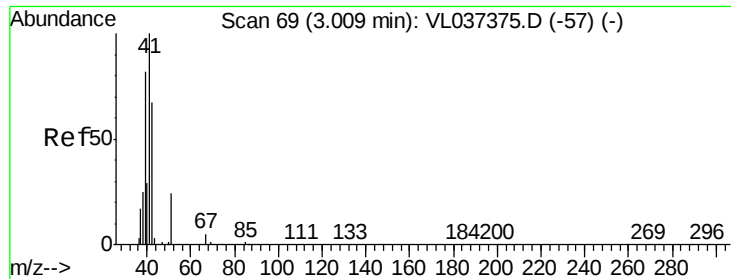
Tgt Ion: 50 Resp: 17151

Ion Ratio Lower Upper

50 100

52 35.5 25.0 37.4





#9

Propene

Concen: 0.308 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL037396.D

Acq: 11 Aug 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENTDUP

Tot Ion: 41 Resp: 20504

Ion Ratio Lower Upper

41 100

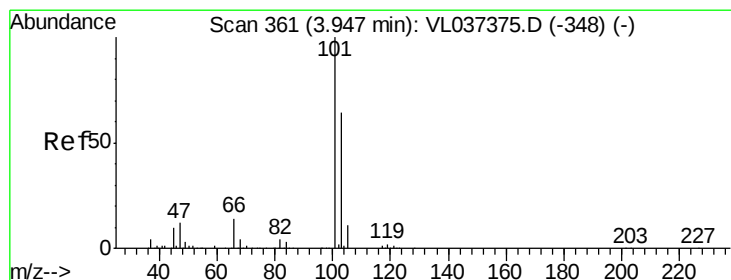
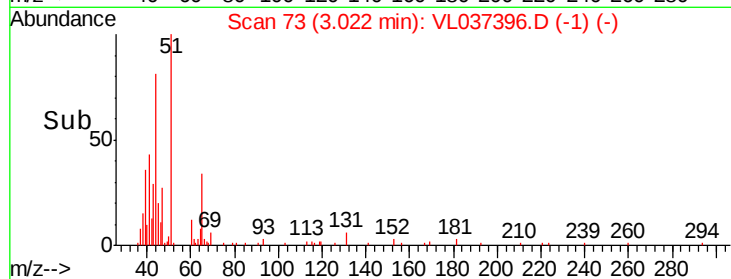
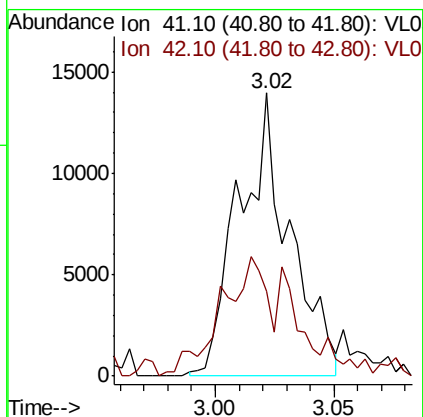
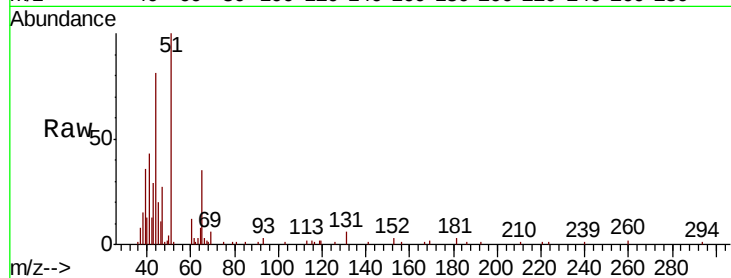
42 0.0 55.5 83.3#

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#11

Trichlorofluoromethane

Concen: 0.471 ppbv m

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL037396.D

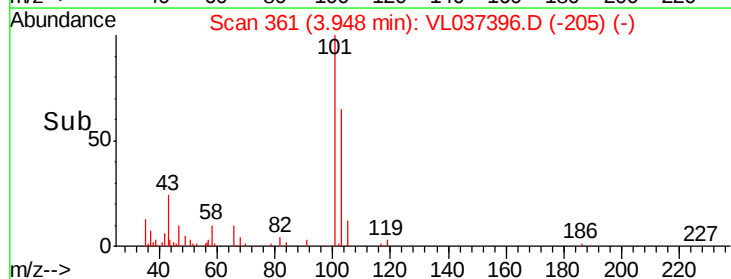
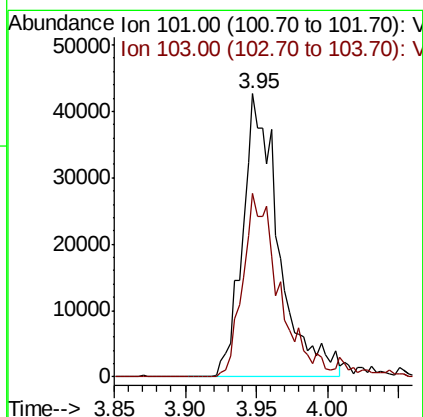
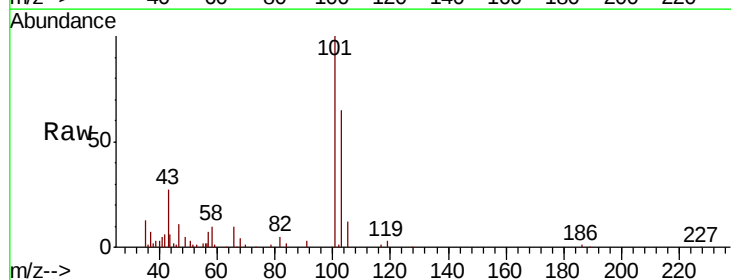
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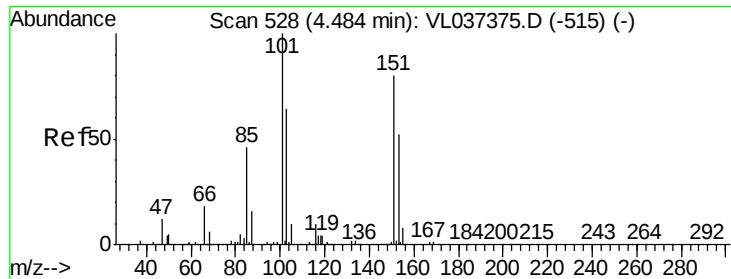
Tgt Ion: 101 Resp: 75387

Ion Ratio Lower Upper

101 100

103 65.1 51.2 76.8





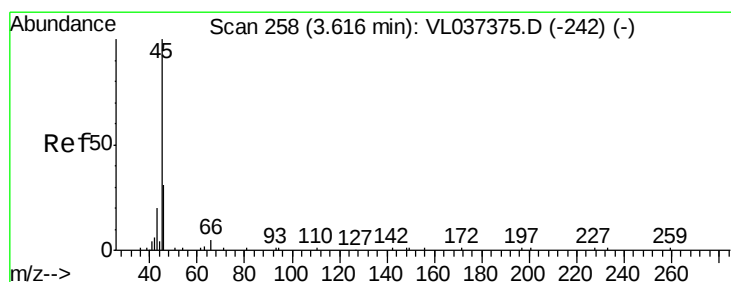
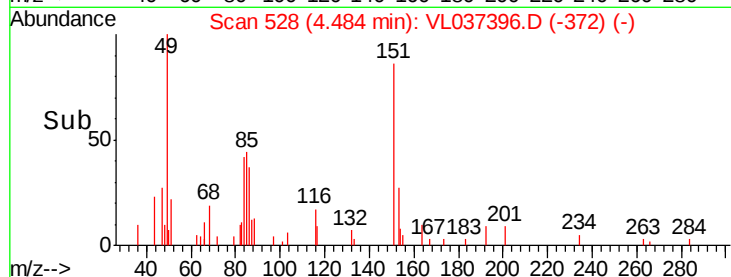
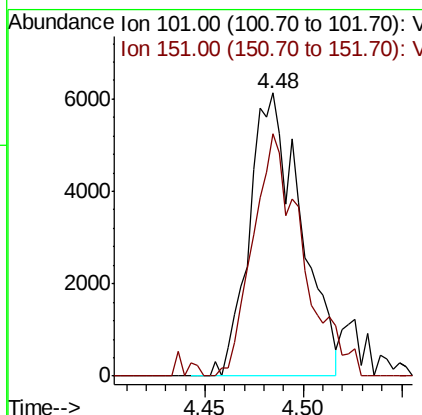
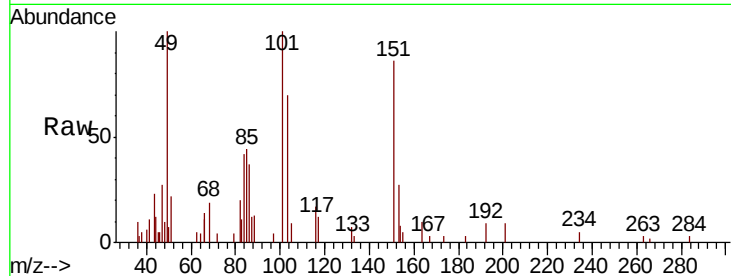
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.096 ppbv m
 RT: 4.48 min Scan# 528
 Delta R.T. 0.00 min
 Lab File: VL037396.D
 Acq: 11 Aug 2021 19:14

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-EFFLUENTDUP

Tot Ion	Ratio	Resp	Lower	Upper
101	100	10967		
151	84.6	64.9	97.3	

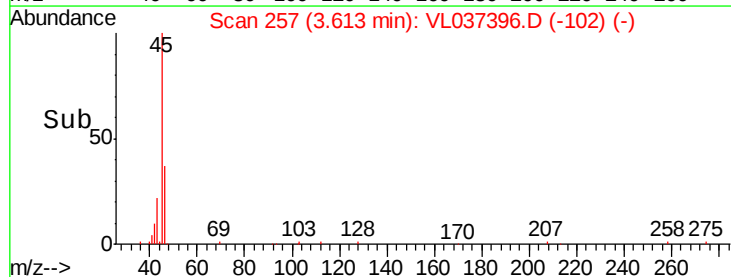
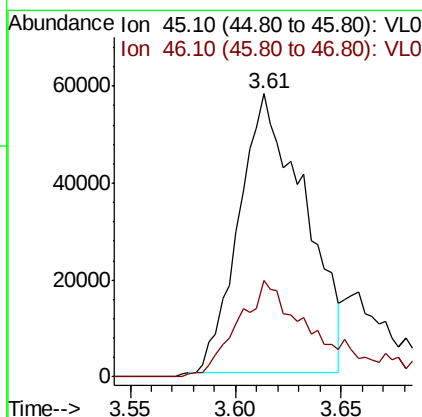
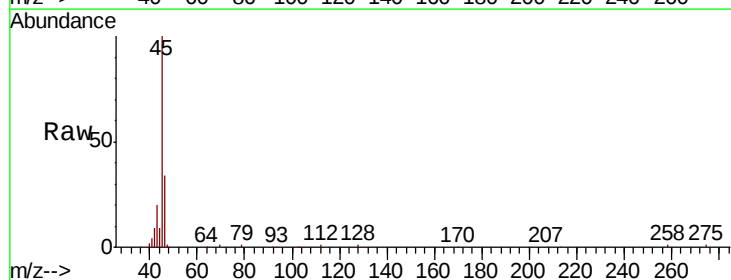
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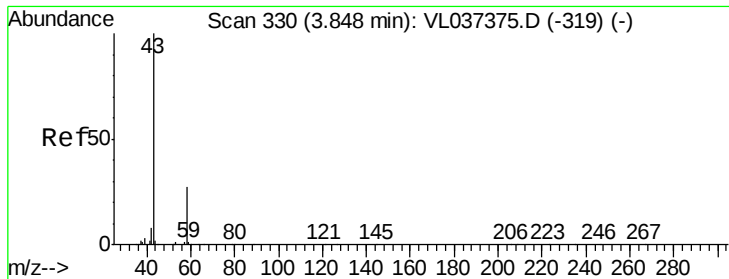
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#13
 Ethanol
 Concen: 15.482 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. -0.00 min
 Lab File: VL037396.D
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Tgt Ion	Ratio	Resp	Lower	Upper
45	100	124560		
46	47.5	15.8	63.4	





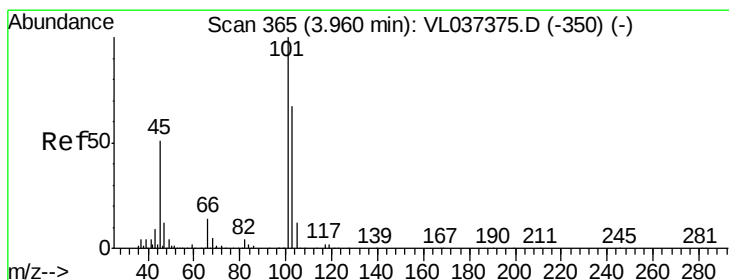
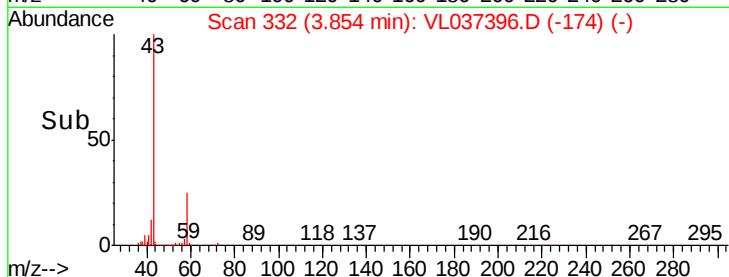
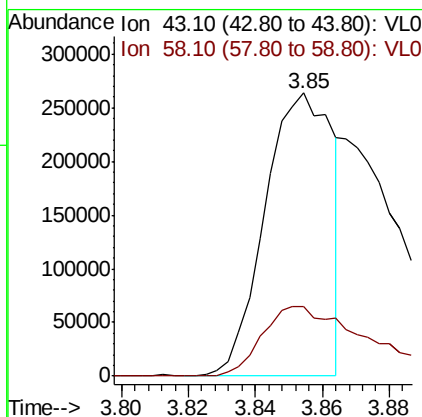
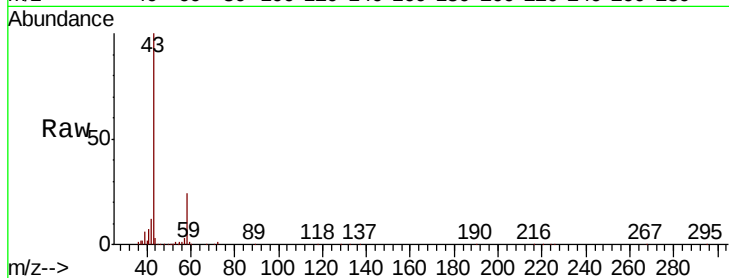
#15
Acetone
Concen: 3.678 ppbv m
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENTDUP

Tot Ion	43	Resp	368994
Ion Ratio	100	Lower	Upper
43	100		
58	44.3	24.6	37.0#

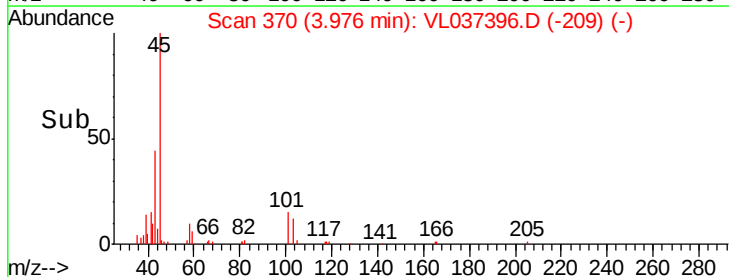
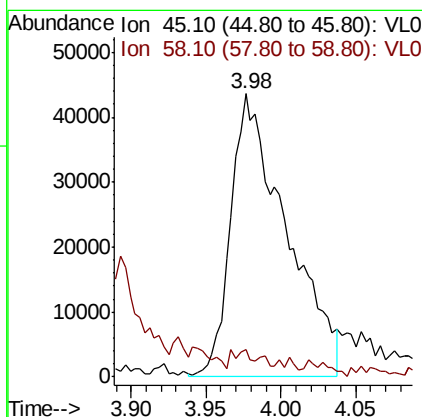
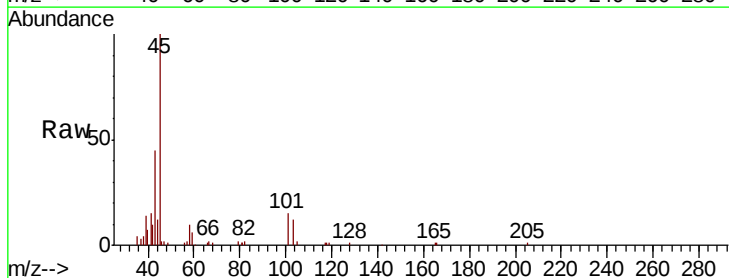
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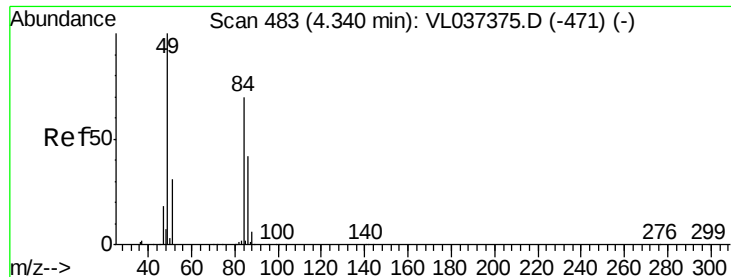
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#19
Isopropyl Alcohol
Concen: 1.950 ppbv m
RT: 3.98 min Scan# 370
Delta R.T. 0.02 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Tgt Ion	45	Resp	112606
Ion Ratio	100	Lower	Upper
45	100		
58	4.5	38.7	58.1#





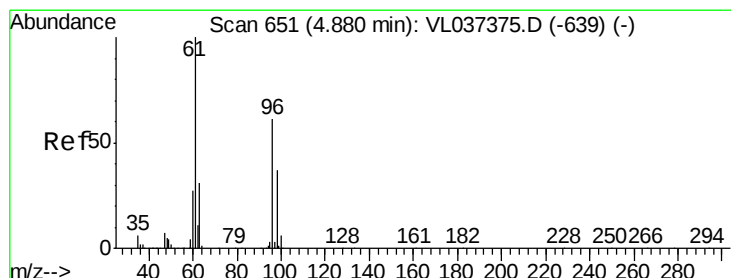
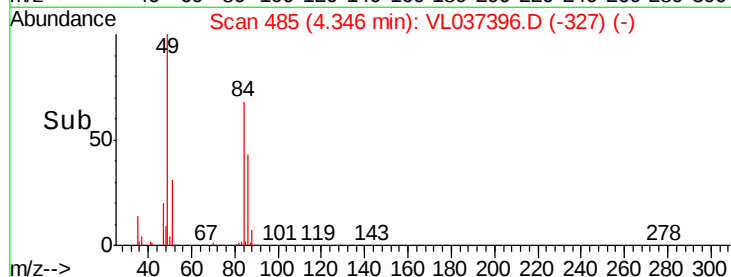
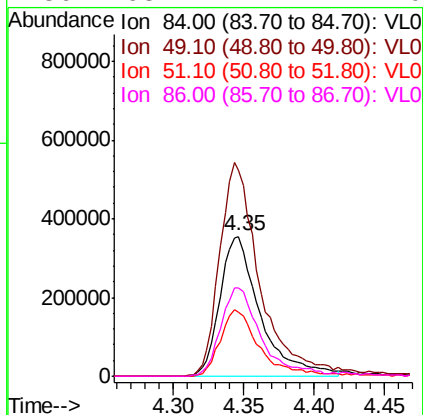
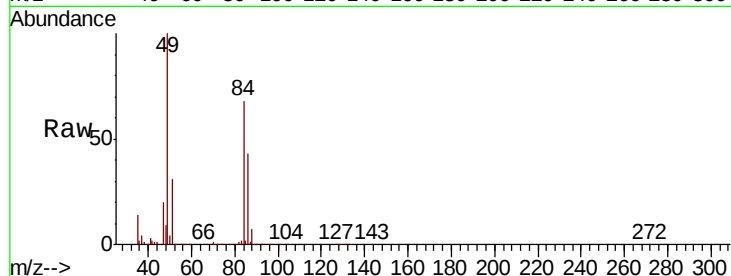
#20
Methvlene Chloride
Concen: 12.974 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENTDUP

Tot Ion	Ratio	Lower	Upper
84	100		
49	147.1	113.8	170.6
51	45.2	34.7	52.1
86	63.2	47.4	71.0

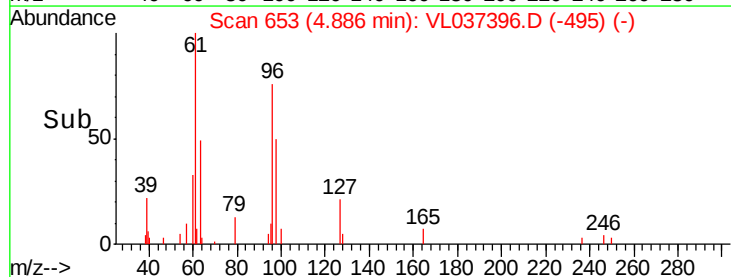
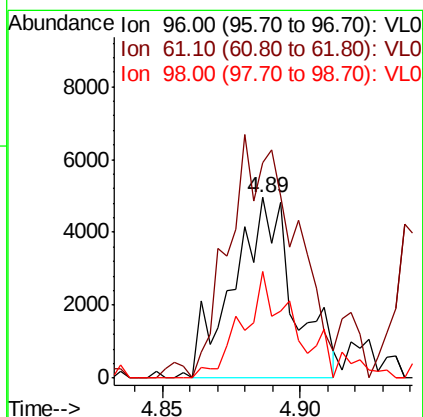
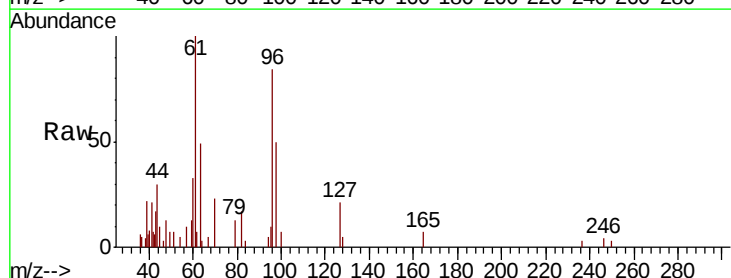
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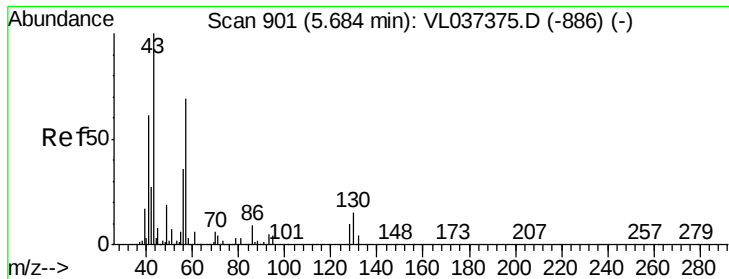
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#22
trans-1,2-Dichloroethene
Concen: 0.154 ppbv m
RT: 4.89 min Scan# 653
Delta R.T. 0.01 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	118.9	132.2	198.4#
98	59.1	48.7	73.1





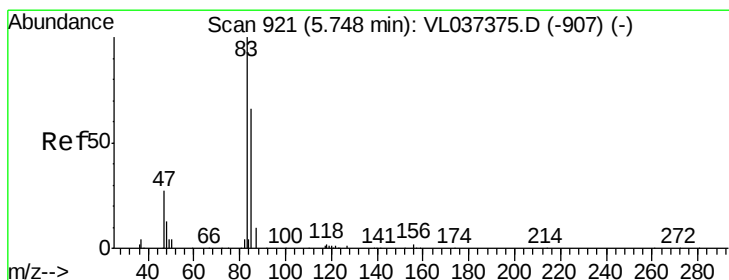
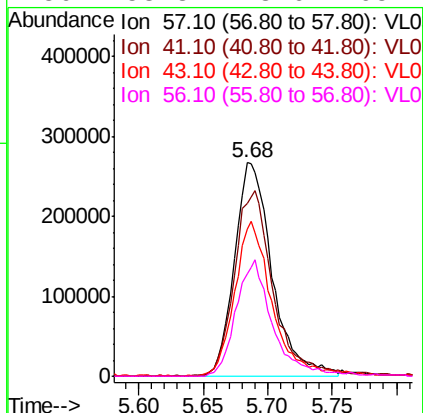
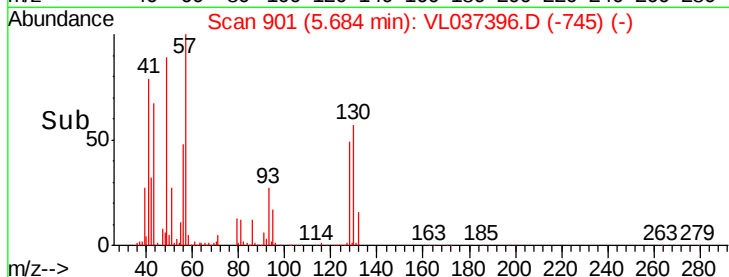
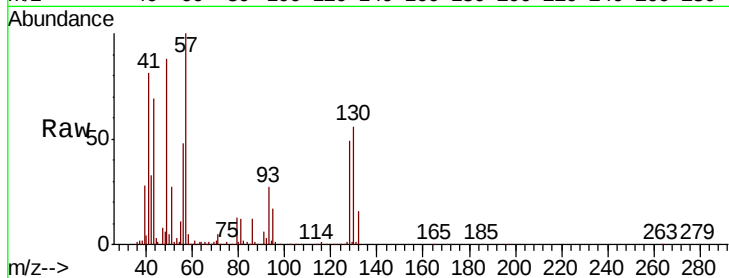
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Hexane
Concen: 4.180 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENTDUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	91.0	73.4	110.0
43	72.0	174.4	261.6#
56	53.3	43.6	65.4

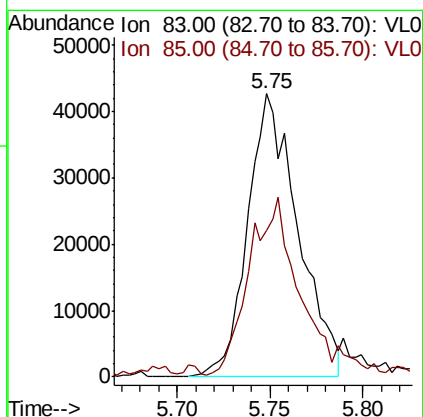
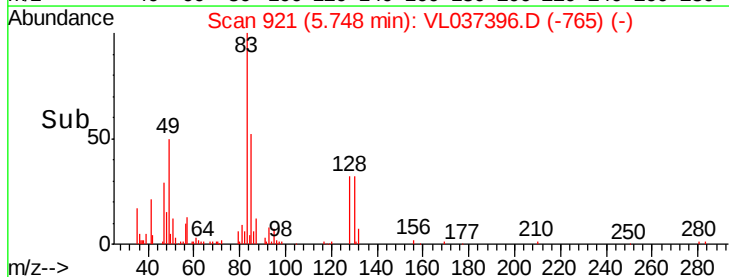
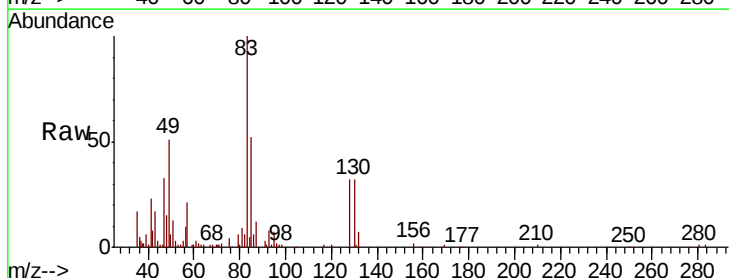
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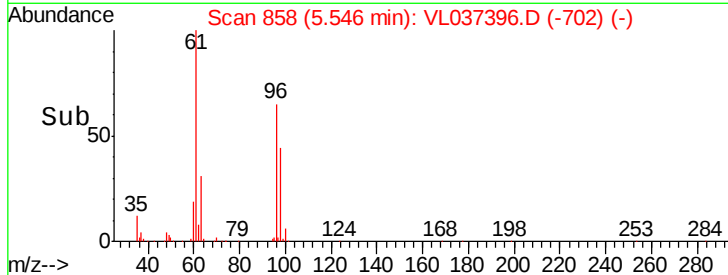
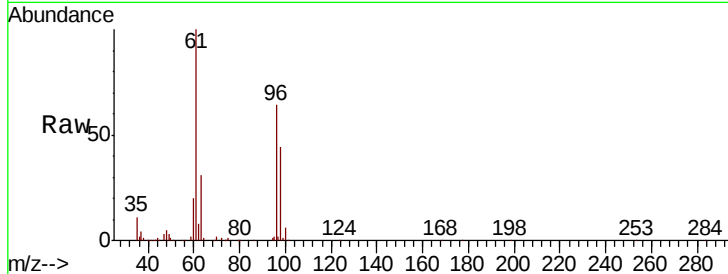
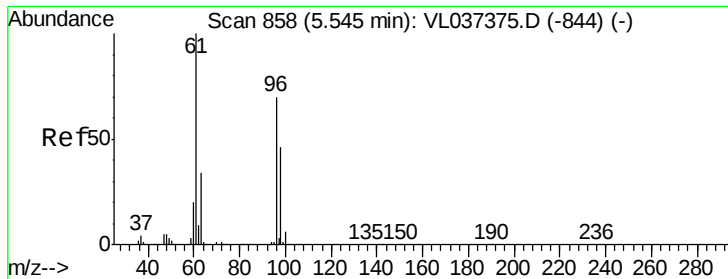
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#29
Chloroform
Concen: 0.430 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	47.7	52.8	79.2#





#31

cis-1,2-Dichloroethene

Concen: 3.707 ppbv

RT: 5.55 min Scan# 858

Delta R.T. 0.00 min

Lab File: VL037396.D

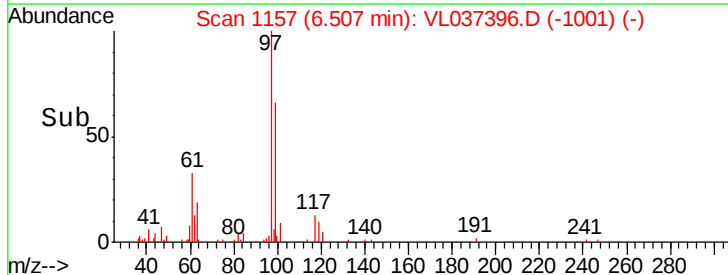
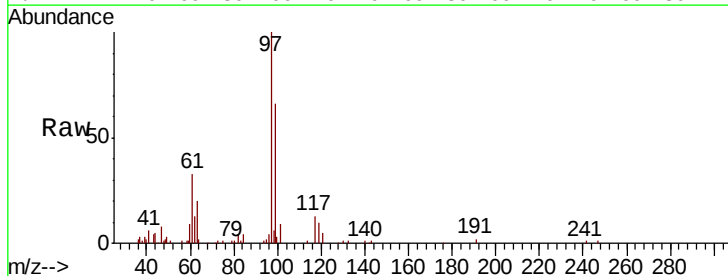
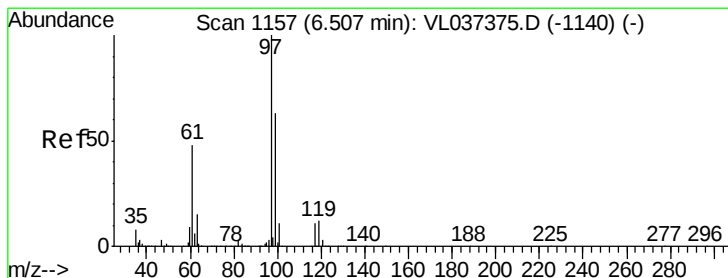
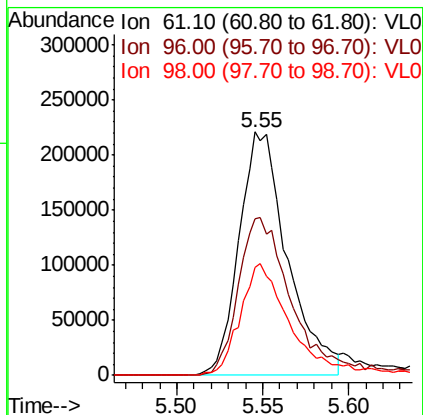
Acq: 11 Aug 2021 19:14

Tot Ion:	61	Resp:	432086
Ion Ratio	Lower	Upper	
61	100		
96	64.5	56.0	84.0
98	44.0	36.8	55.2

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENTDUP

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#32

1,1,1-Trichloroethane

Concen: 0.425 ppbv m

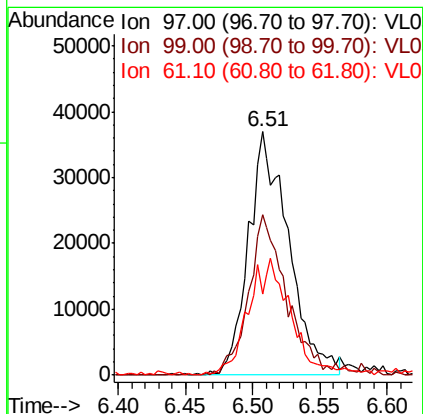
RT: 6.51 min Scan# 1157

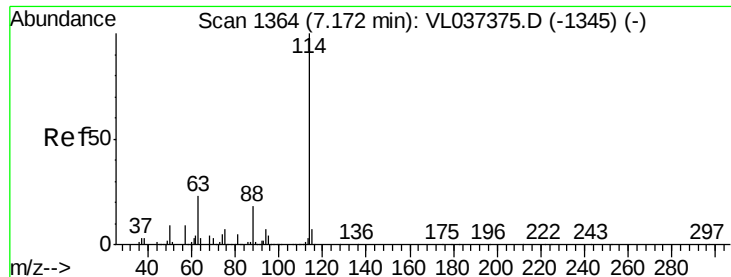
Delta R.T. 0.00 min

Lab File: VL037396.D

Acq: 11 Aug 2021 19:14

Tgt Ion:	97	Resp:	76812
Ion Ratio	Lower	Upper	
97	100		
99	65.0	52.7	79.1
61	0.0	39.9	59.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VL037396.D

Acq: 11 Aug 2021 19:14

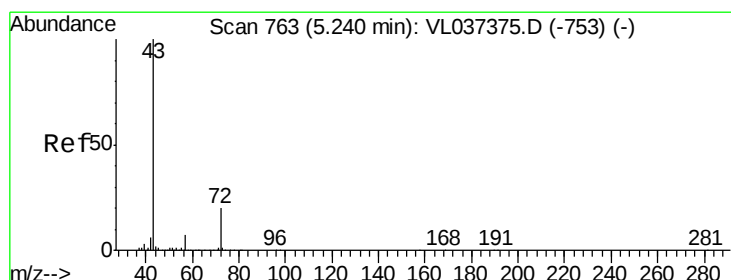
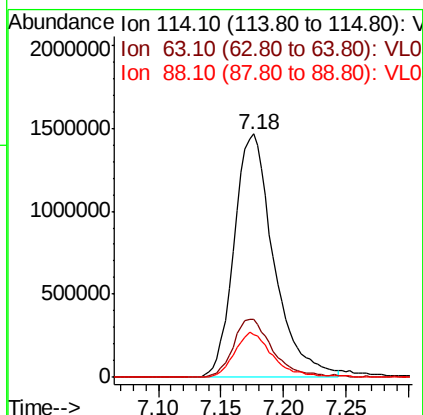
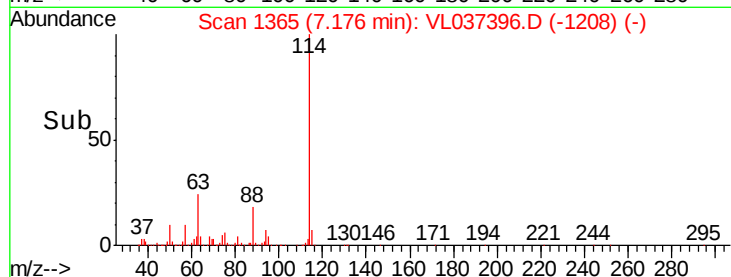
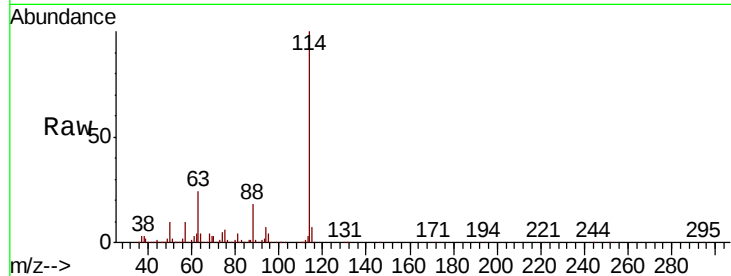
Instrument :
MSVOA_L

ClientSampleId :
SVE-EFFLUENTDUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.5	29.3
88	18.3	14.3	21.5

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#34

2-Butanone

Concen: 0.548 ppbv

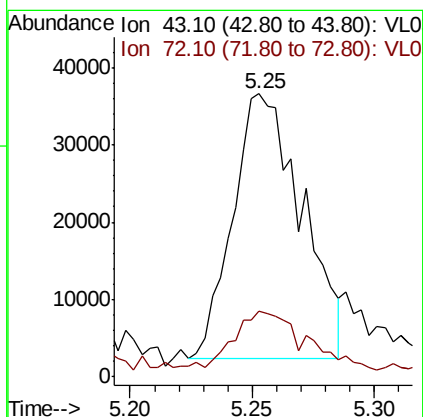
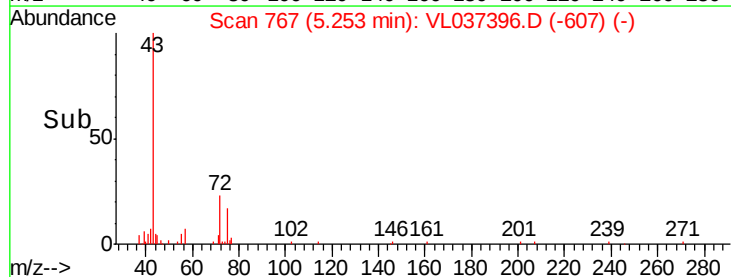
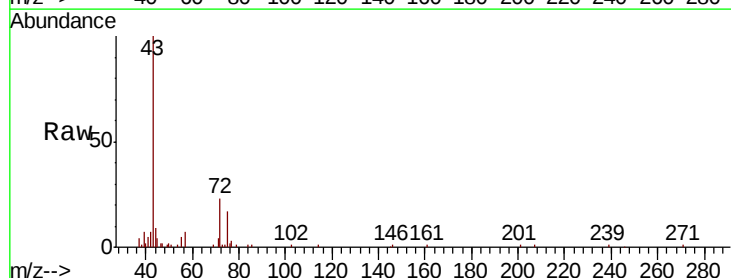
RT: 5.25 min Scan# 767

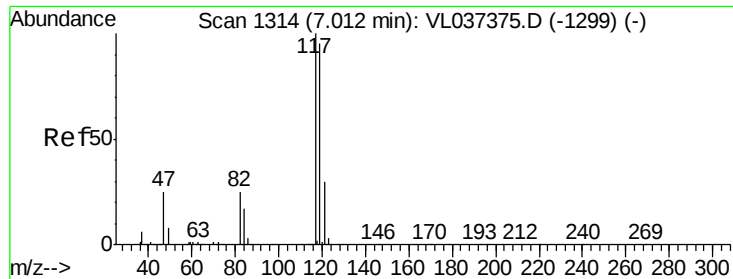
Delta R.T. 0.01 min

Lab File: VL037396.D

Acq: 11 Aug 2021 19:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	32.3	19.6	29.4





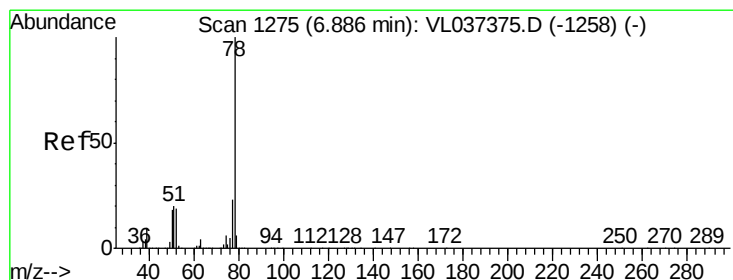
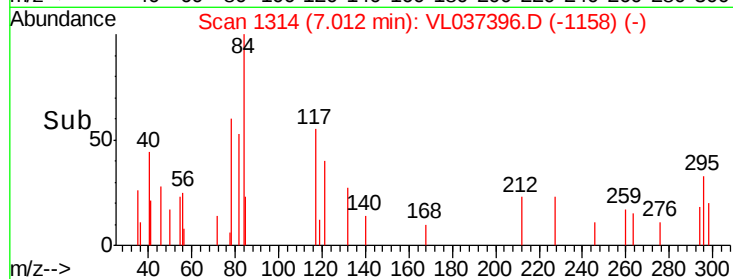
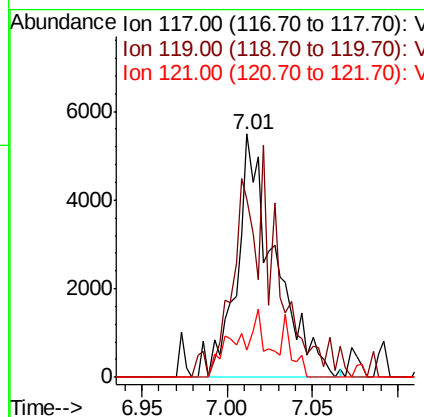
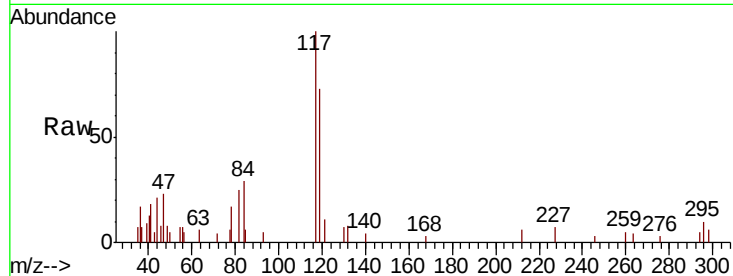
#35
Carbon Tetrachloride
Concen: 0.047 ppbv m
RT: 7.01 min Scan# 1314
Delta R.T. 0.00 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENTDUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	73.4	76.1	114.1#
121	11.4	24.4	36.6#

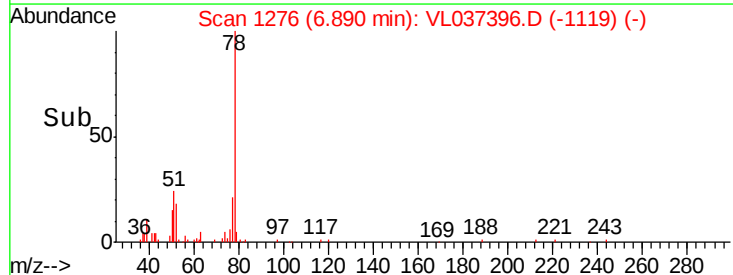
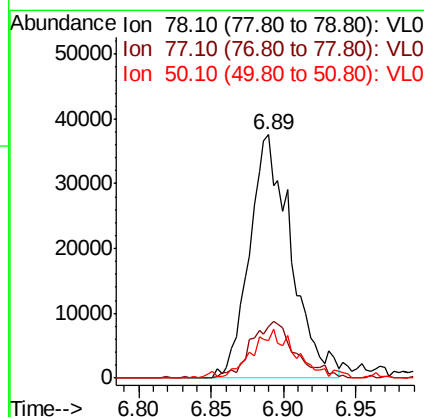
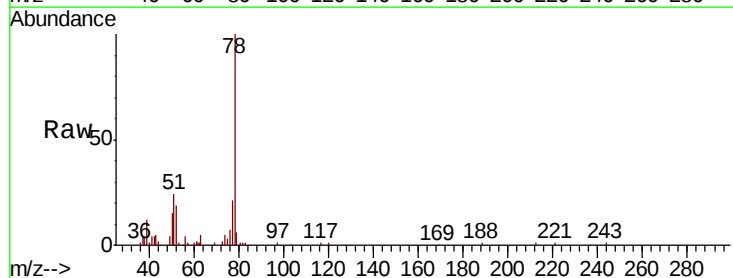
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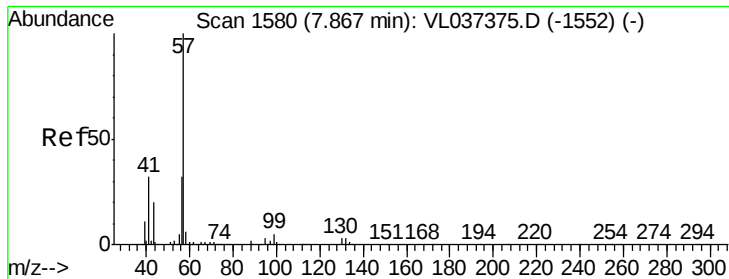
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#36
Benzene
Concen: 0.292 ppbv m
RT: 6.89 min Scan# 1276
Delta R.T. 0.00 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.2	18.6	28.0
50	15.3	14.3	21.5





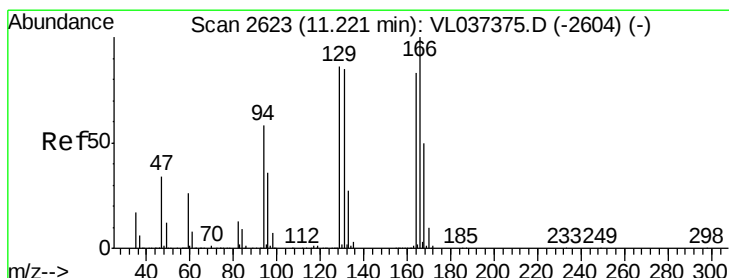
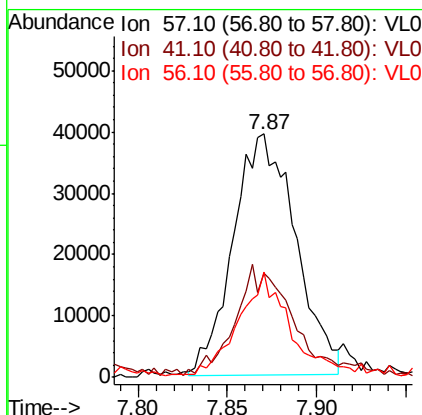
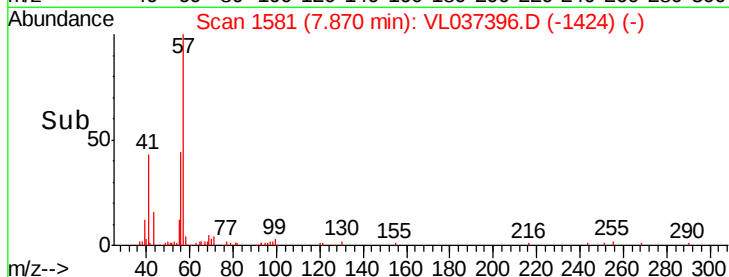
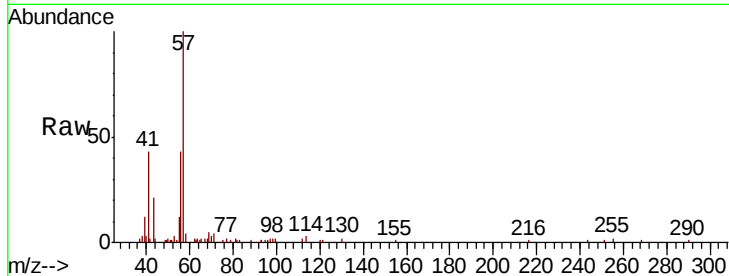
#44
2,2,4-Trimethylpentane
Concen: 0.225 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENTDUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	47.5	26.1	39.1#
56	39.0	25.1	37.7#

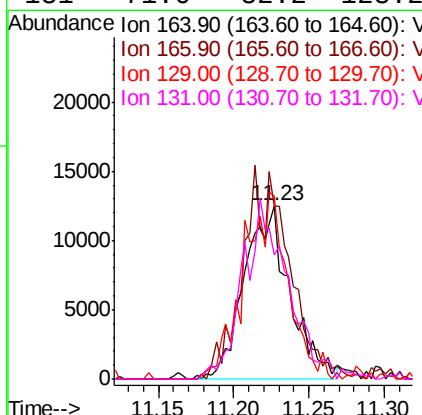
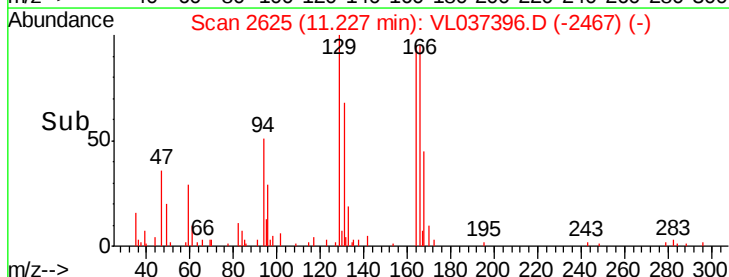
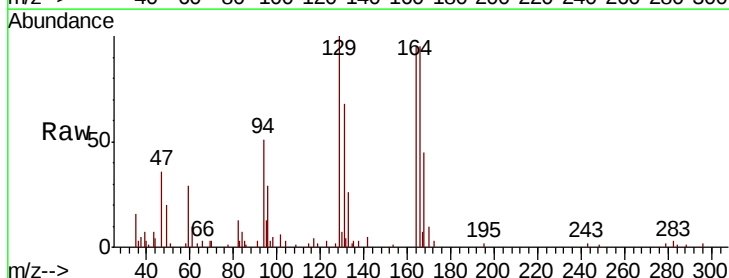
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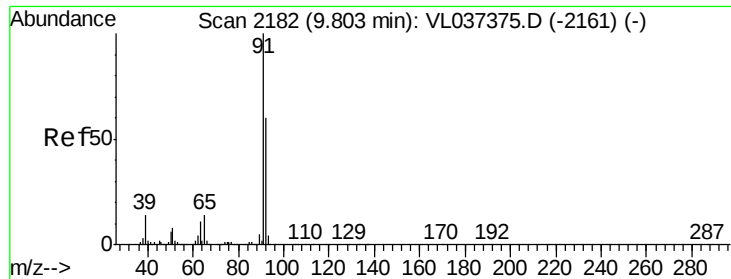
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#52
Tetrachloroethene
Concen: 0.252 ppbv m
RT: 11.23 min Scan# 2625
Delta R.T. 0.01 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	100.0	96.5	144.7
129	105.6	83.2	124.8
131	71.6	82.2	123.2#





#53

Toluene

Concen: 1.129 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL037396.D

Acq: 11 Aug 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENTDUP

Tot Ion: 91 Resp: 335744

Ion Ratio Lower Upper

91 100

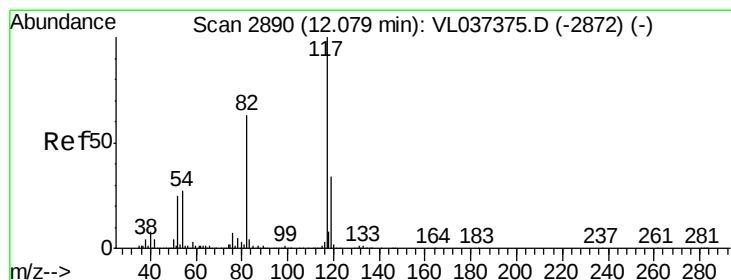
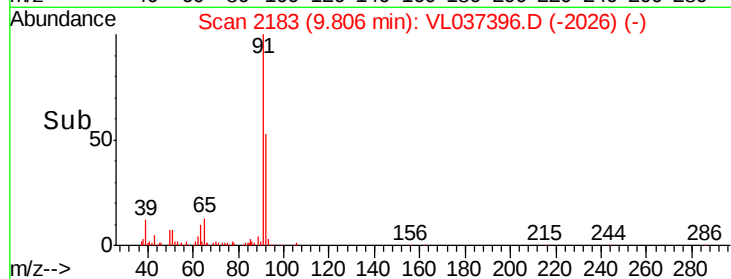
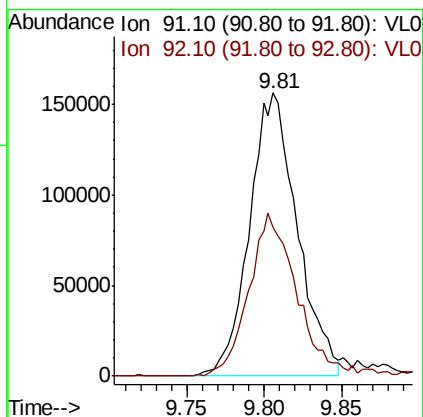
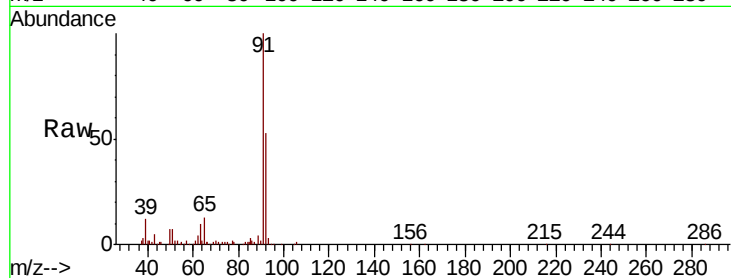
92 59.3 48.1 72.1

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.01 min

Lab File: VL037396.D

Acq: 11 Aug 2021 19:14

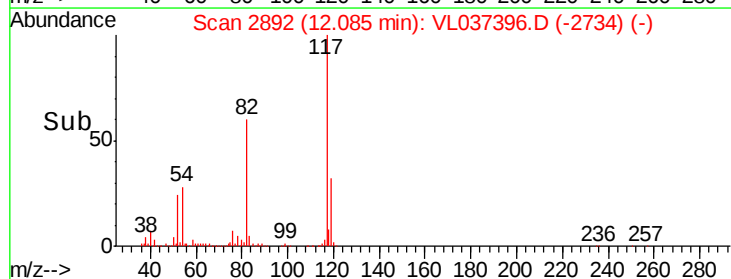
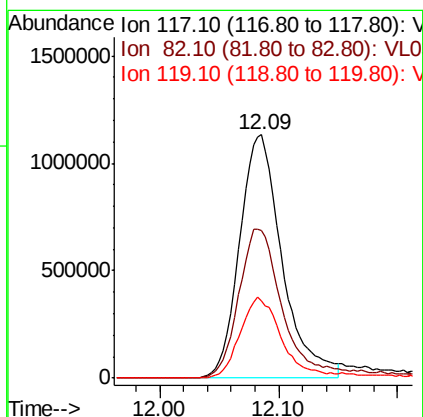
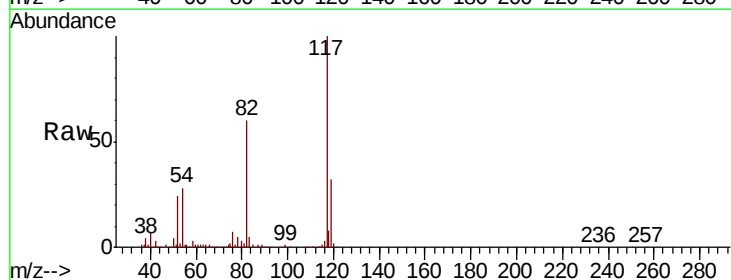
Tgt Ion: 117 Resp: 2808182

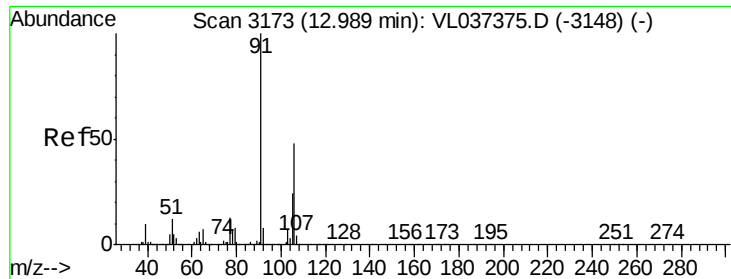
Ion Ratio Lower Upper

117 100

82 67.4 52.6 78.8

119 35.7 46.7 70.1#





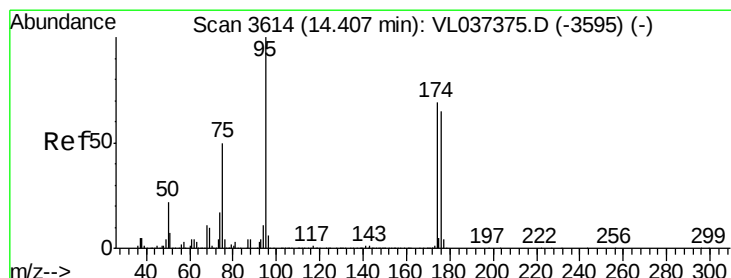
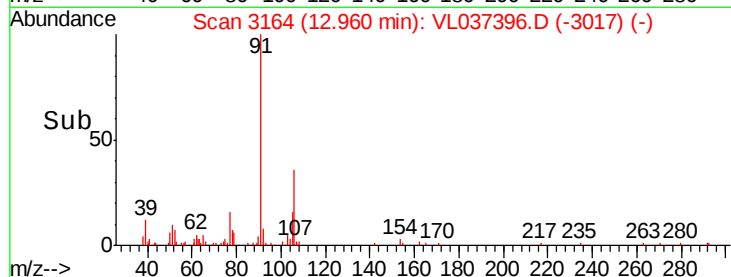
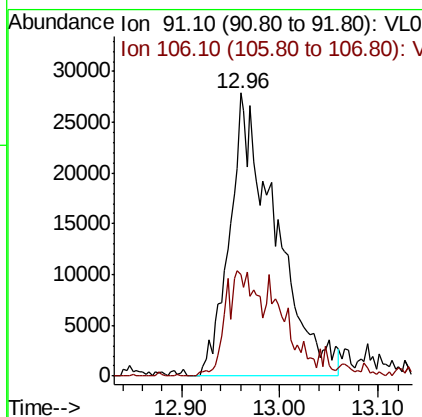
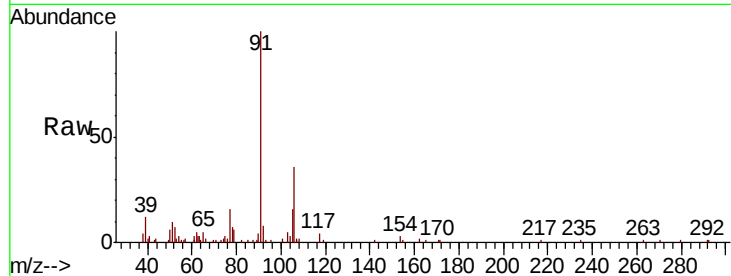
#59
m/p-Xylene
Concen: 0.280 ppbv m
RT: 12.96 min Scan# 3164
Delta R.T. -0.03 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENTDUP

Tot Ion: 91 Resp: 90351
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

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#68
1-Bromo-4-Fluorobenzene
Concen: 9.379 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. 0.00 min
Lab File: VL037396.D
Acq: 11 Aug 2021 19:14

Tgt Ion: 95 Resp: 1964225
Ion Ratio Lower Upper
95 100
174 78.1 58.3 87.5
175 5.4 4.3 6.5

