

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037433.D
 Acq On : 13 Aug 2021 4:06
 Operator : SY/AP
 Sample : M3211-03REDL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3REDL

Manual Integrations
 APPROVED

apatel
 8/13/2021 3:03:23 PM

Quant Time: Aug 13 12:17:08 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	5.66	49	1279968	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3802294	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3162475	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2260931	9.97	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	470	0.002	ppbv	93
4) Chloromethane	3.14	50	1353	0.015	ppbv #	64
5) Vinyl Chloride	3.25	62	250	0.003	ppbv #	43
6) Bromomethane	3.47	94	379	0.007	ppbv #	40
7) Chloroethane	3.56	64	100	0.003	ppbv #	40
8) Dichlorotetrafluoroethane	3.03	85	319	0.001	ppbv	94
9) Propene	3.02	41	231078m	2.738	ppbv	
10) Heptane	8.12	43	86816m	0.423	ppbv	
11) Trichlorofluoromethane	3.95	101	2154	0.010	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.49	101	468	0.003	ppbv #	11
13) Ethanol	3.62	45	104272m	11.576	ppbv	
14) Bromoethene	3.74	108	254	0.004	ppbv #	41
15) Acetone	3.85	43	1249529m	9.205	ppbv	
18) 1,1-Dichloroethene	4.29	96	147	0.002	ppbv #	1
19) Isopropyl Alcohol	3.98	45	96389m	1.220	ppbv	
20) Methylene Chloride	4.34	84	566818	7.897	ppbv	96
22) trans-1,2-Dichloroethene	4.89	96	463	0.007	ppbv #	1
24) 1,1-Dichloroethane	5.02	63	497	0.003	ppbv #	89
26) Hexane	5.68	57	739005	4.426	ppbv #	47
27) Carbon Disulfide	4.55	76	11969m	0.085	ppbv	
28) Methyl tert-Butyl Ether	5.03	73	443	0.002	ppbv #	52
29) Chloroform	5.83	83	150	0.001	ppbv	91
30) Cyclohexane	7.13	84	1760	0.013	ppbv #	1
31) cis-1,2-Dichloroethene	5.54	61	640	0.004	ppbv #	22
32) 1,1,1-Trichloroethane	6.51	97	342	0.001	ppbv #	1
34) 2-Butanone	5.25	43	307442	1.958	ppbv #	90
35) Carbon Tetrachloride	7.02	117	419	0.002	ppbv #	45
36) Benzene	6.89	78	7417	0.023	ppbv #	77
37) 1,2-Dichloroethane	6.29	62	365	0.002	ppbv #	80
38) Trichloroethene	7.83	130	455	0.003	ppbv #	2
40) 1,4-Dioxane	7.82	88	133	0.004	ppbv #	100
41) Tetrahydrofuran	6.05	42	535084	7.422	ppbv	98
42) Bromodichloromethane	7.78	83	662	0.003	ppbv #	27
43) Methyl Methacrylate	8.02	69	253	0.002	ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	3386	0.006	ppbv #	1
45) t-1,3-Dichloropropene	9.29	75	251	0.003	ppbv #	1
46) cis-1,3-Dichloropropene	8.70	75	104	0.001	ppbv #	45
47) 1,1,2-Trichloroethane	9.46	97	579	0.004	ppbv #	14
48) Dibromochloromethane	9.87	129	216	0.001	ppbv	93
49) Bromoform	13.03	173	104	0.001	ppbv #	27
50) 4-Methyl-2-Pentanone	8.77	43	25929m	0.131	ppbv	

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Manual Integrations
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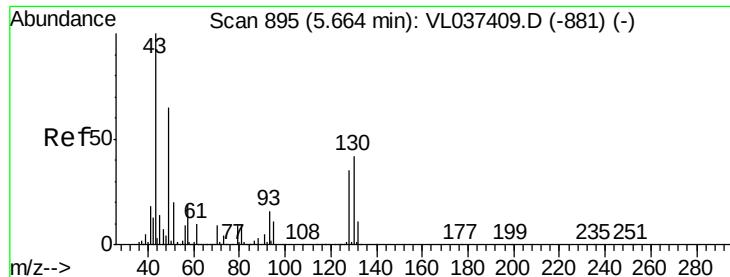
apatel
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Quant Time: Aug 13 12:17:08 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 2021
 QLast Update : Fri Aug 13 01:37:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

51) 2-Hexanone	10.14	43	1806	0.019	ppbv #	28
52) Tetrachloroethene	11.22	164	37502	0.278	ppbv	95
53) Toluene	9.80	91	51210m	0.140	ppbv	
54) 1,2-Dibromoethane	10.60	107	184	0.001	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.12	131	329	0.003	ppbv #	6
57) Chlorobenzene	12.14	112	776	0.003	ppbv #	42
58) Ethyl Benzene	12.99	91	9301	0.022	ppbv	93
61) Styrene	13.51	104	1266	0.007	ppbv #	1
62) Isopropylbenzene	14.66	105	1611	0.003	ppbv #	1
63) 1,1,2,2-Tetrachloroethane	13.67	83	205	0.001	ppbv #	24
64) n-propylbenzene	15.55	120	579	0.005	ppbv #	1
65) tert-Butylbenzene	16.73	119	608	0.001	ppbv #	20
66) Benzyl Chloride	16.97	91	361	0.017	ppbv #	65
67) sec-Butylbenzene	17.28	105	701	0.001	ppbv #	1
69) p-Isopropyltoluene	17.64	119	1808	0.004	ppbv #	1
70) n-Butylbenzene	18.54	91	583	0.001	ppbv #	1
71) 2-Chlorotoluene	15.37	91	267	0.001	ppbv	80
72) 4-Ethyltoluene	15.82	105	2008	0.005	ppbv #	54
73) 1,3,5-Trimethylbenzene	15.99	105	3177	0.008	ppbv #	71
74) 1,2,4-Trimethylbenzene	16.75	105	6461	0.016	ppbv #	43
75) 1,3-Dichlorobenzene	16.98	146	2823	0.012	ppbv #	1
76) 1,4-Dichlorobenzene	17.12	146	497	0.002	ppbv #	22
77) 1,2-Dichlorobenzene	17.80	146	149	0.001	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.37	225	249	0.001	ppbv #	46
79) Naphthalene	22.17	128	634	0.003	ppbv #	69
80) Naphthalene,2-methyl-	24.87	142	211	0.005	ppbv #	18
81) 1,2,4-Trichlorobenzene	21.92	180	309	0.002	ppbv #	1

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



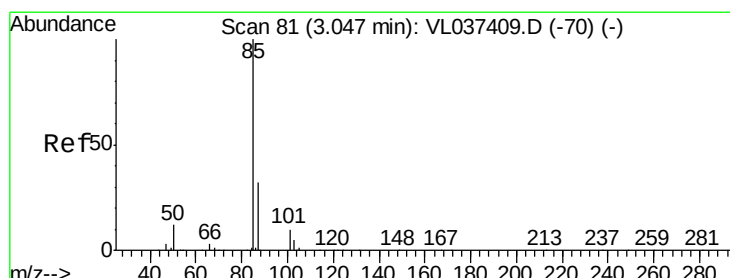
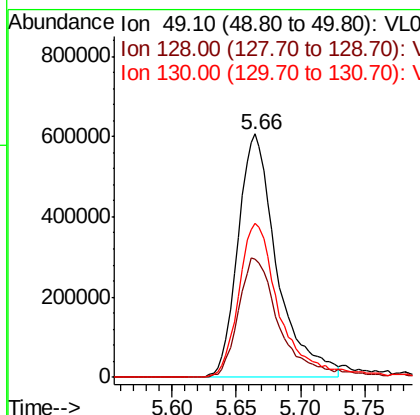
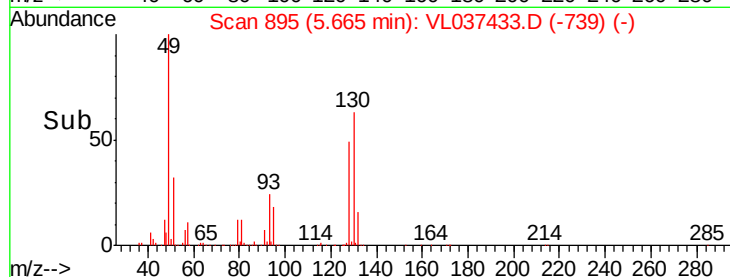
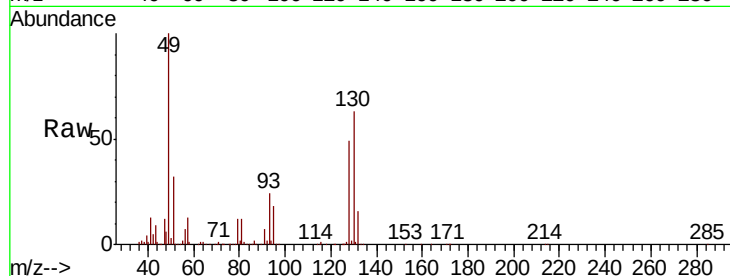
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampleId :
SVP-3REDL

Tot Ion: 49 Resp: 1279968
Ion Ratio Lower Upper
49 100
128 53.3 27.9 83.6
130 68.2 34.6 103.8

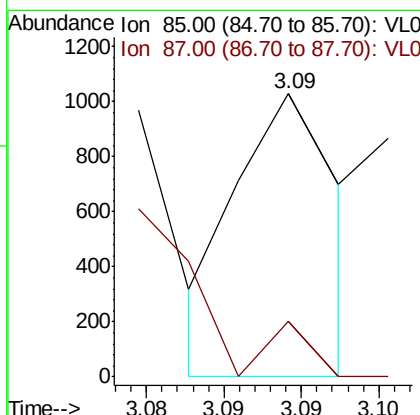
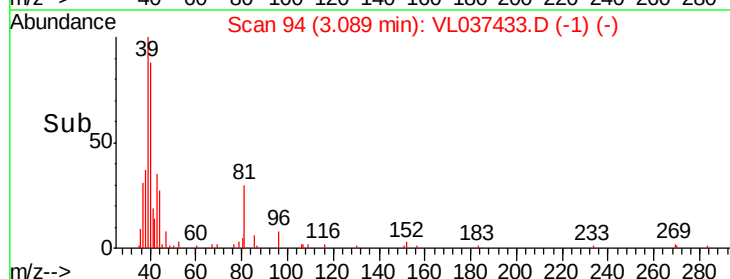
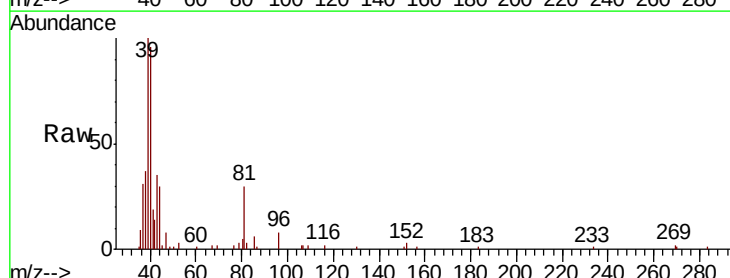
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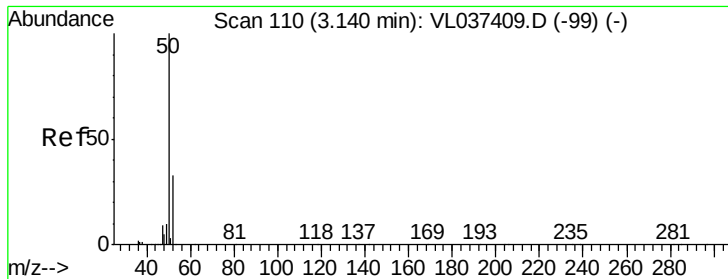
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#2
Dichlorodifluoromethane
Concen: 0.002 ppbv
RT: 3.09 min Scan# 94
Delta R.T. 0.04 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tgt Ion: 85 Resp: 470
Ion Ratio Lower Upper
85 100
87 28.3 25.7 38.5





#4

Chloromethane

Concen: 0.015 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

ClientSampleId :

SVP-3REDL

Tot Ion: 50 Resp: 1353

Ion Ratio Lower Upper

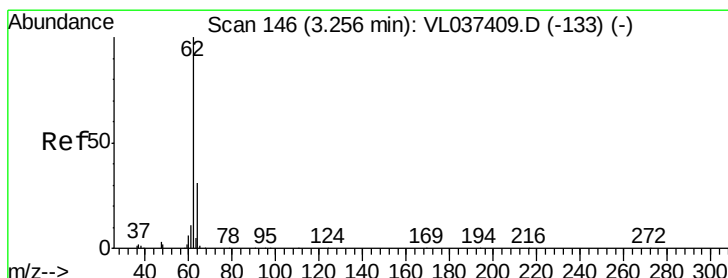
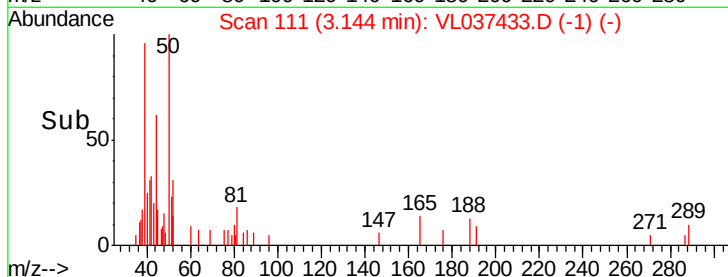
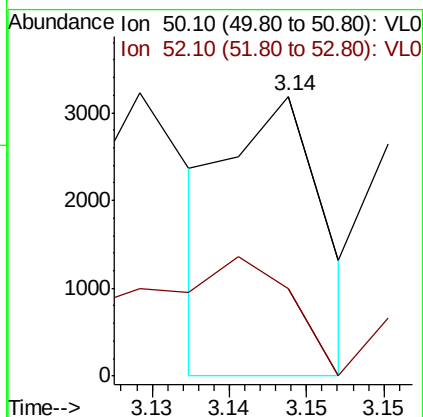
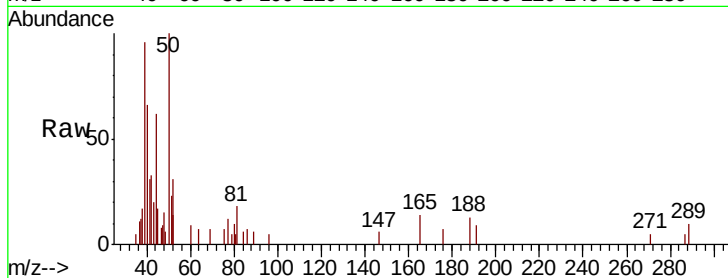
50 100

52 53.2 26.2 39.4#

Manual Integrations
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#5

Vinyl Chloride

Concen: 0.003 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL037433.D

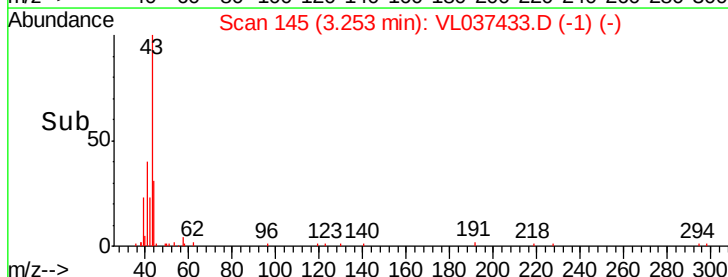
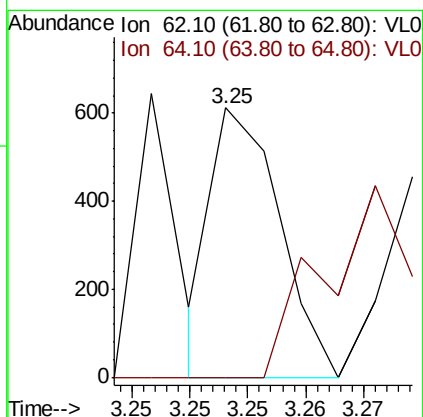
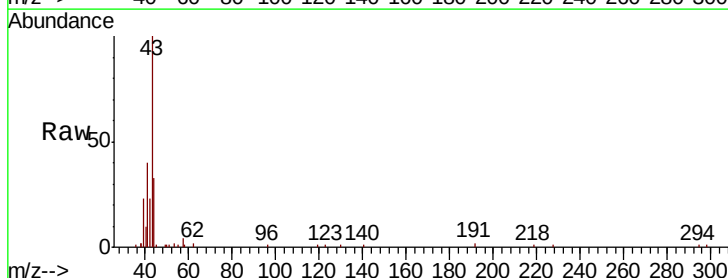
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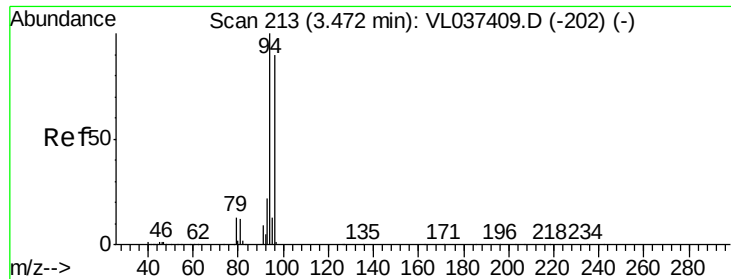
Tgt Ion: 62 Resp: 250

Ion Ratio Lower Upper

62 100

64 0.0 25.0 37.6#





#6

Bromomethane

Concen: 0.007 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

ClientSampleId :

SVP-3REDL

Tot Ion: 94 Resp: 379

Ion Ratio Lower Upper

94 100

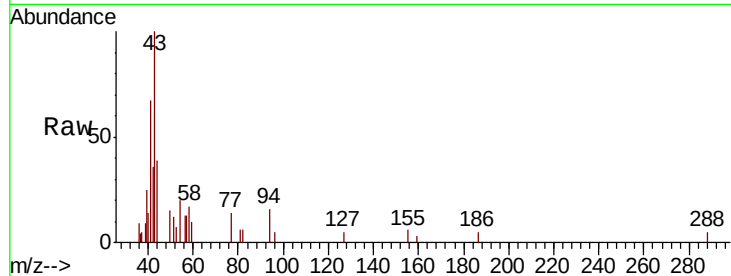
96 34.0 72.2 108.4#

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

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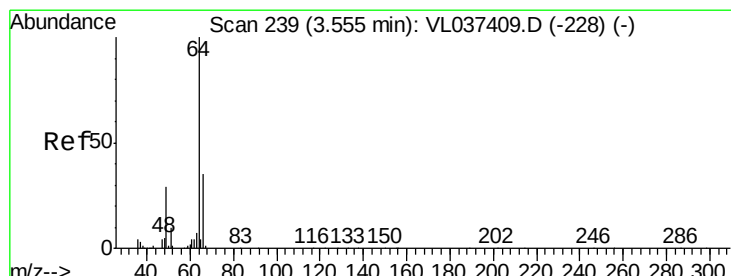
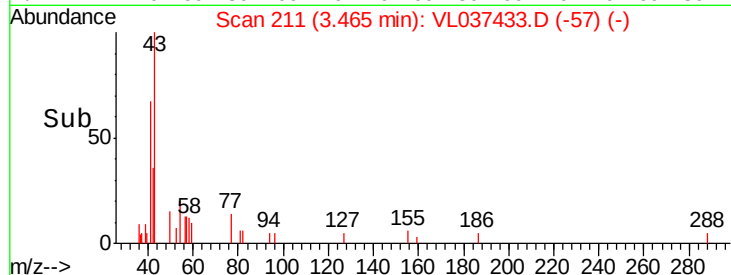
3.47

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#7

Chloroethane

Concen: 0.003 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL037433.D

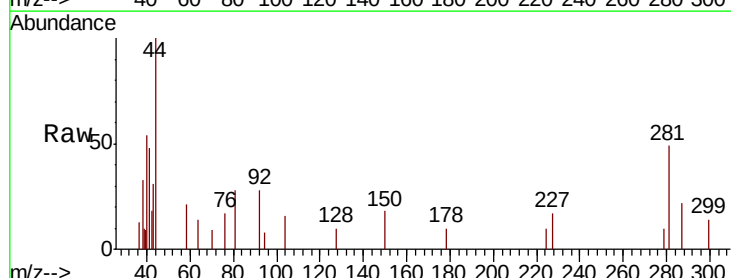
Acq: 13 Aug 2021 4:06

Tgt Ion: 64 Resp: 100

Ion Ratio Lower Upper

64 100

66 0.0 27.8 41.8#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

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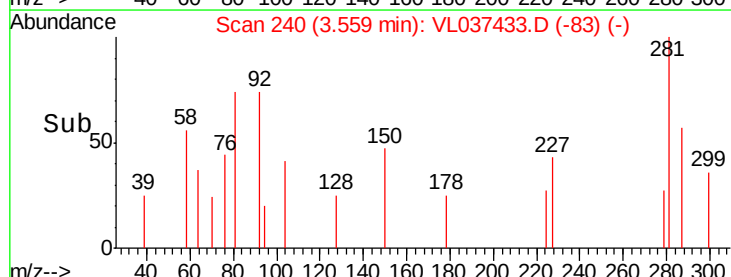
3.56

3.56

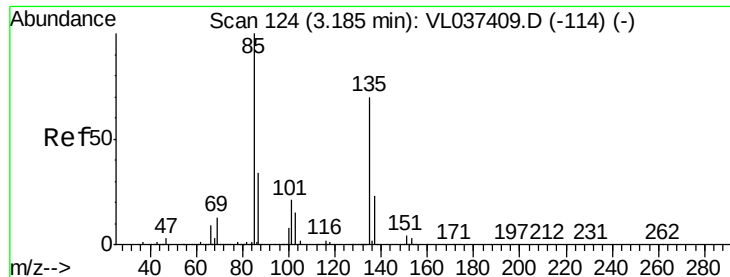
3.56

3.56

3.56



Time-->



#8

Dichlorotetrafluoroethane

Concen: 0.001 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.16 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

ClientSampleId :

SVP-3REDL

Tot Ion: 85 Resp: 319

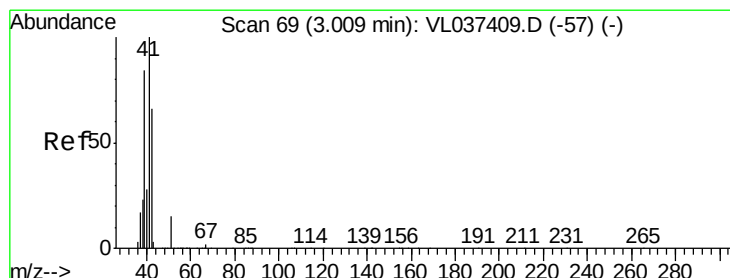
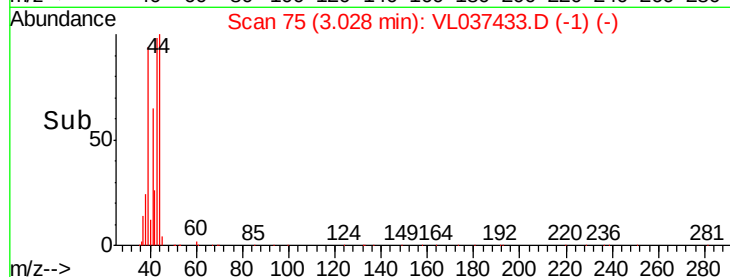
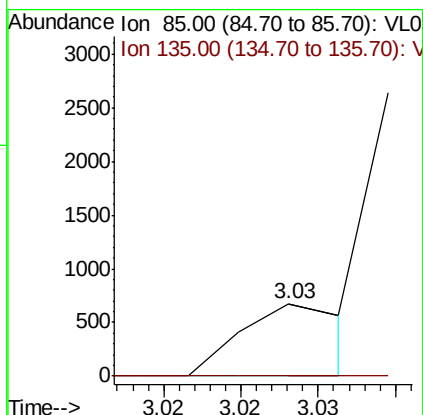
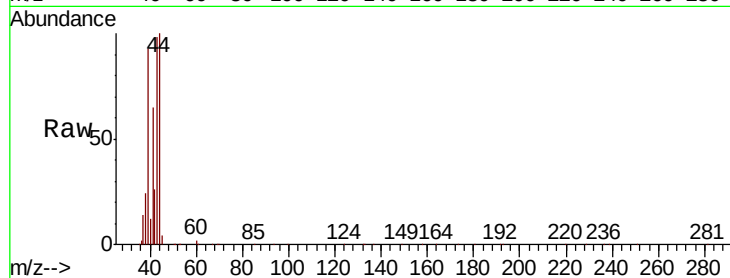
Ion Ratio Lower Upper

85 100

135 78.1 58.6 88.0

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#9

Propene

Concen: 2.738 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037433.D

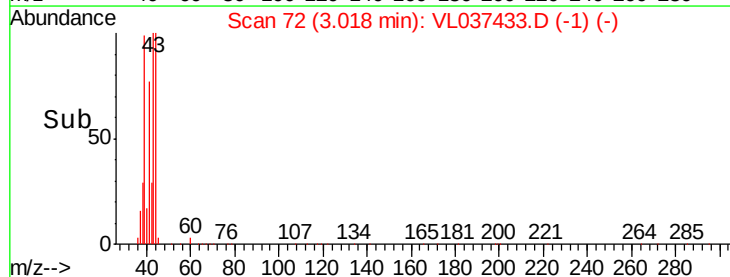
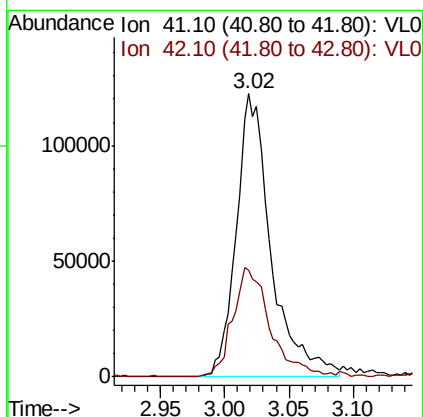
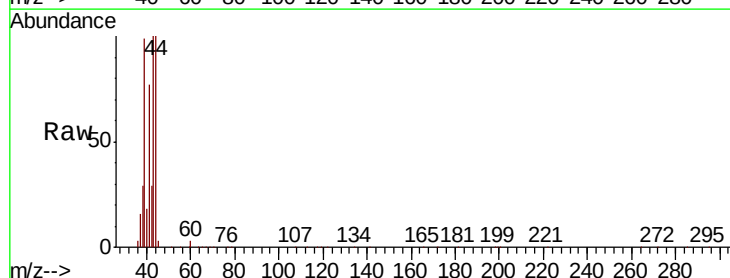
Acq: 13 Aug 2021 4:06

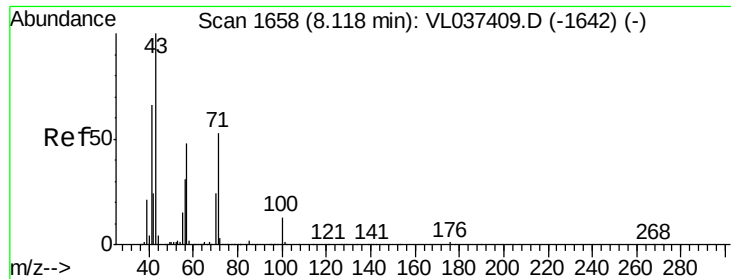
Tgt Ion: 41 Resp: 231078

Ion Ratio Lower Upper

41 100

42 114.2 53.8 80.8#





#10

Heptane

Concen: 0.423 ppbv m

RT: 8.12 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

ClientSampleId :

SVP-3REDL

Tot Ion: 43 Resp: 86816

Ion Ratio Lower Upper

43 100

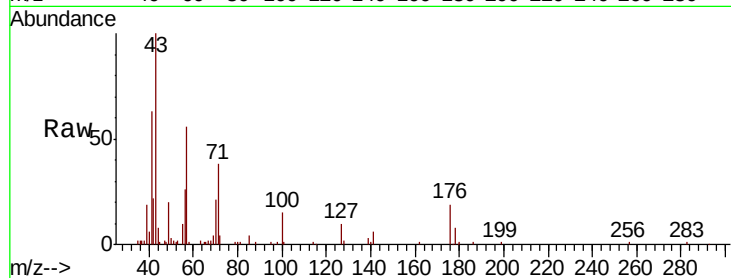
57 0.0 40.3 60.5#

Manual Integrations

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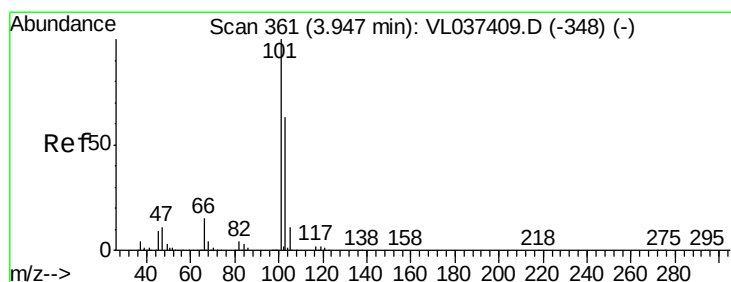
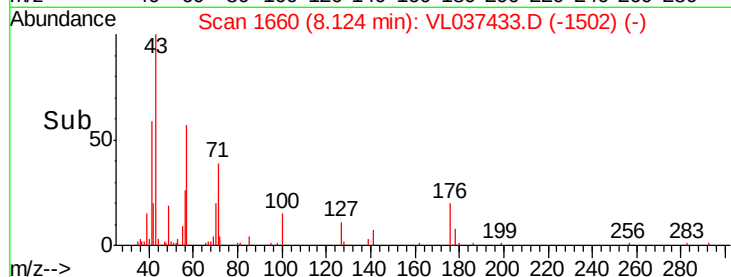
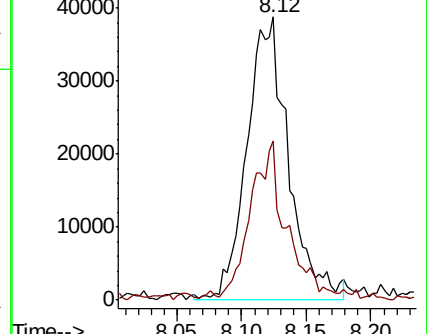
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.010 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL037433.D

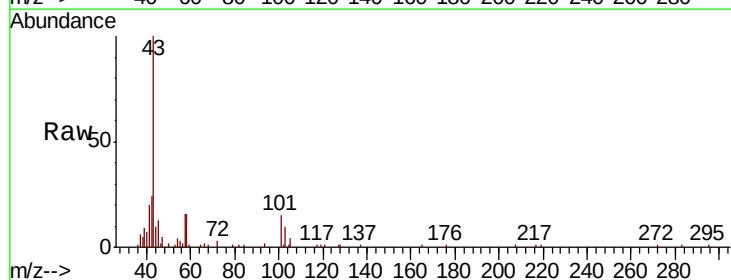
Acq: 13 Aug 2021 4:06

Tgt Ion: 101 Resp: 2154

Ion Ratio Lower Upper

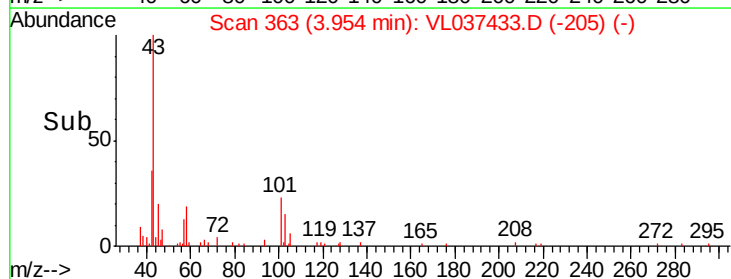
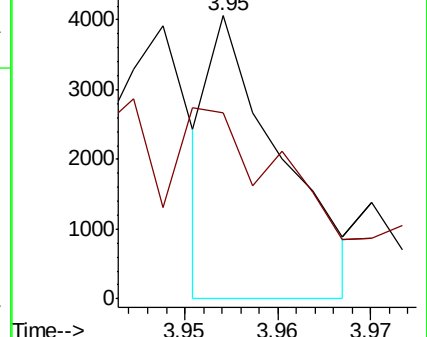
101 100

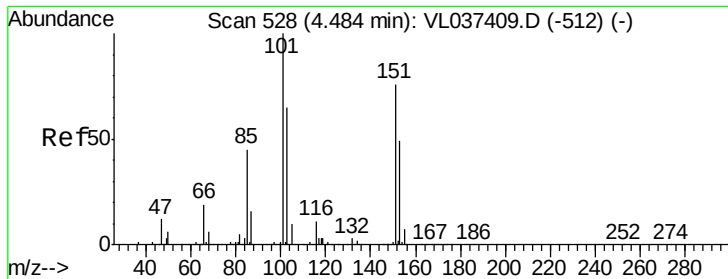
103 57.6 50.2 75.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.003 ppbv

RT: 4.49 min Scan# 529

Delta R.T. 0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

ClientSampled :

SVP-3REDL

Tot Ion: 101 Resp: 468

Ion Ratio Lower Upper

101 100

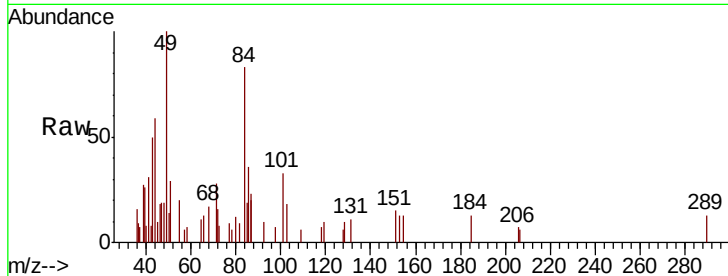
151 0.0 61.2 91.8#

Manual Integrations

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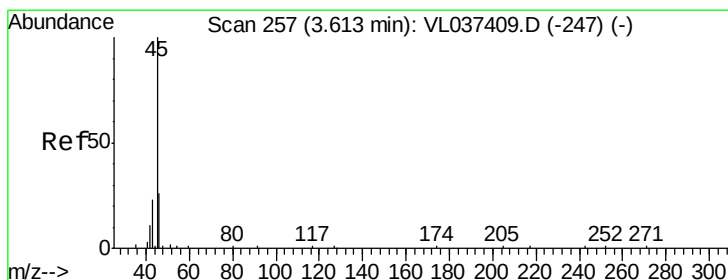
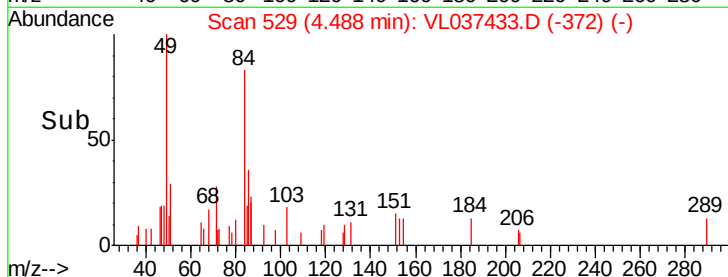
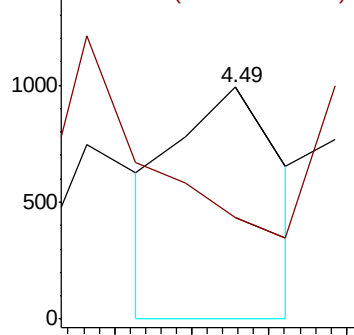
apatel

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 11.576 ppbv m

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL037433.D

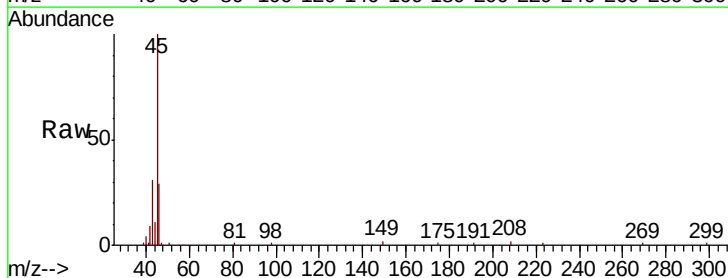
Acq: 13 Aug 2021 4:06

Tgt Ion: 45 Resp: 104272

Ion Ratio Lower Upper

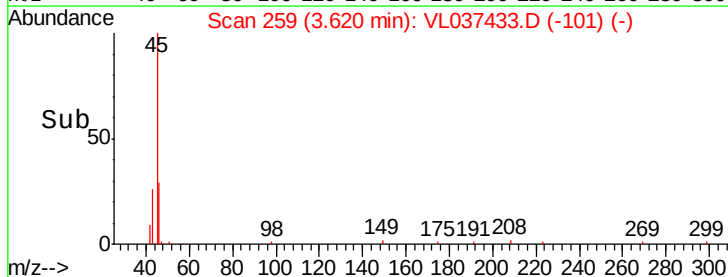
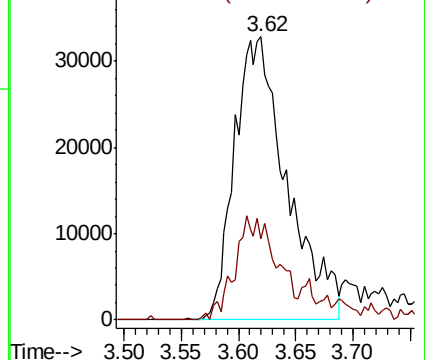
45 100

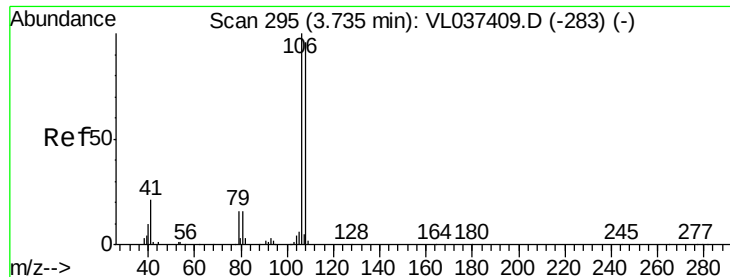
46 34.0 18.0 72.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.004 ppbv

RT: 3.74 min Scan# 295

Delta R.T. 0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

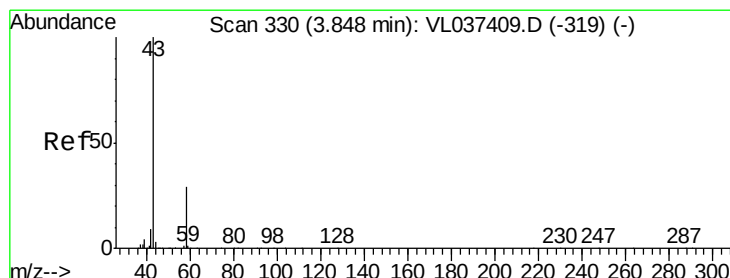
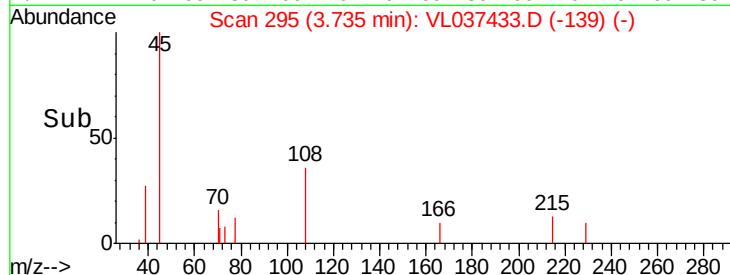
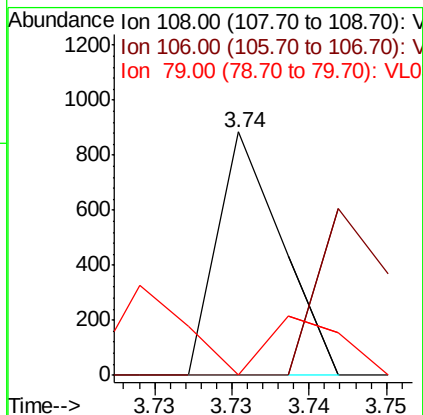
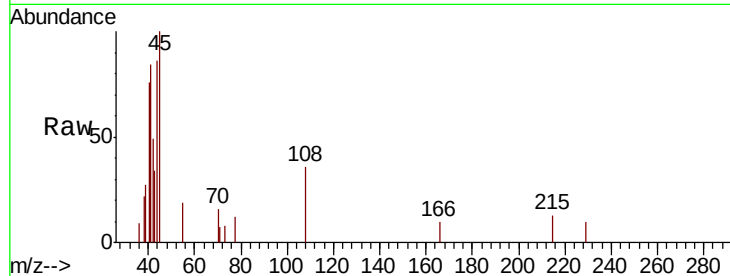
ClientSampled :

SVP-3REDL

Tot Ion:	108	Resp:	254
Ion Ratio	Lower	Upper	
108	100		
106	139.8	87.5	131.3#
79	128.3	13.5	20.3#

Manual Integrations
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#15

Acetone

Concen: 9.205 ppbv m

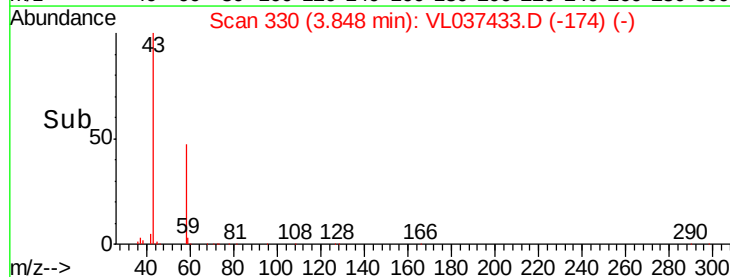
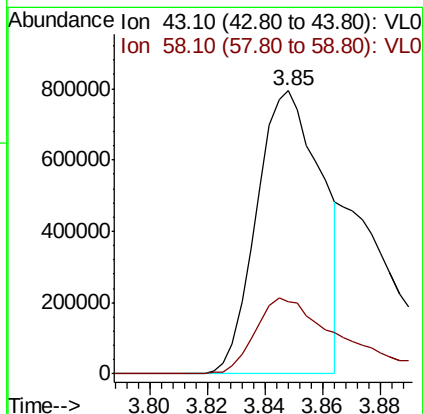
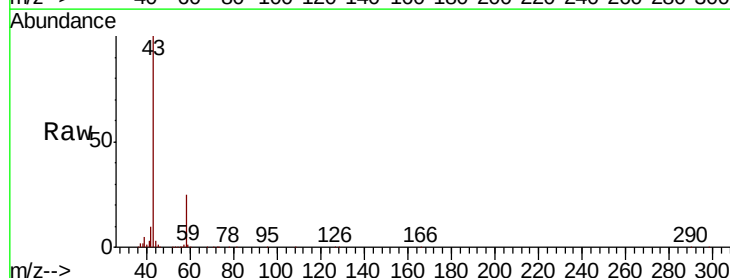
RT: 3.85 min Scan# 330

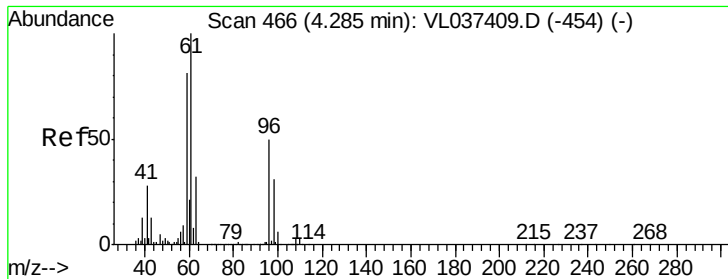
Delta R.T. 0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Tgt Ion:	43	Resp:	1249529
Ion Ratio	Lower	Upper	
43	100		
58	40.6	24.4	36.6#





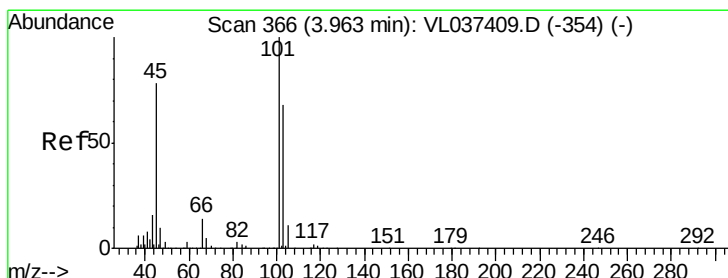
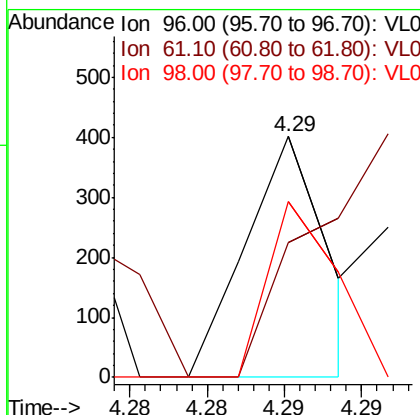
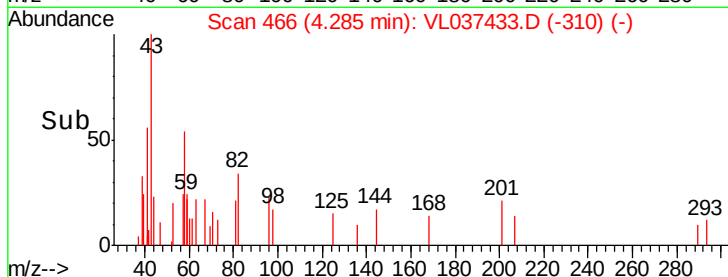
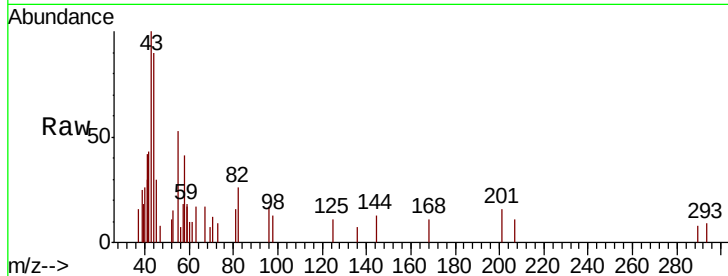
#18
 1,1-Dichloroethene
 Concen: 0.002 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. 0.00 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Instrument :
 MSVOA_L
 ClientSampled :
 SVP-3REDL

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	159.0	238.4#
98	72.8	49.4	74.2

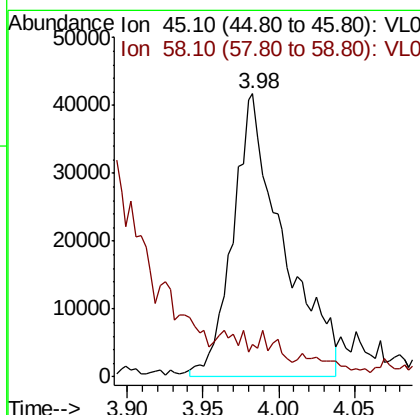
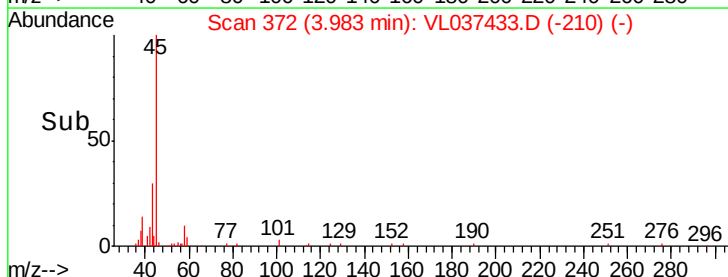
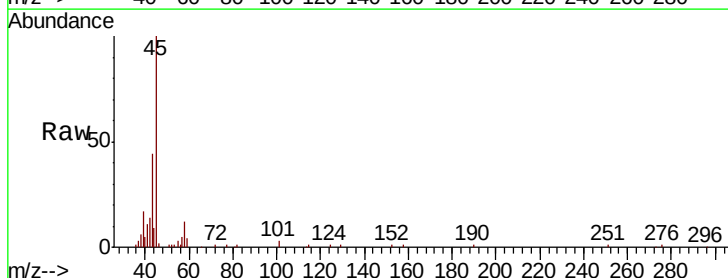
Manual Integrations
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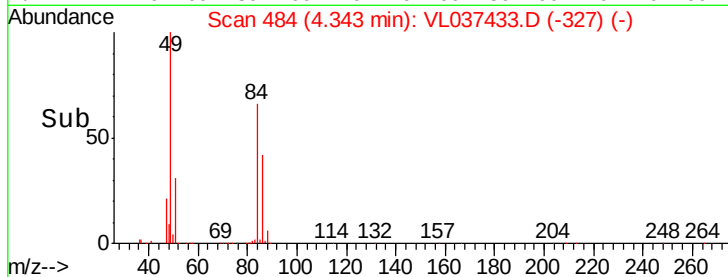
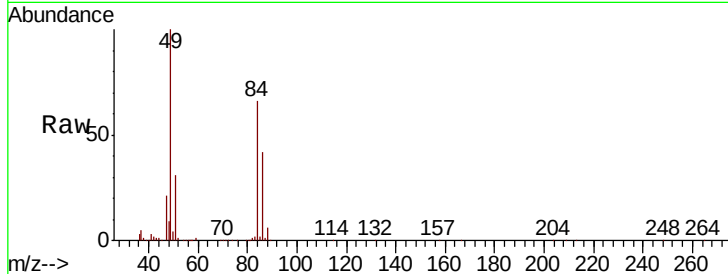
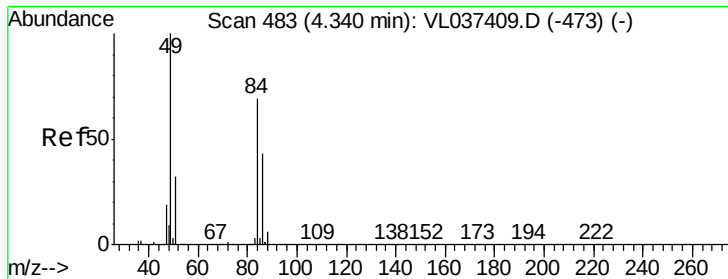
apatel
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#19
 Isopropyl Alcohol
 Concen: 1.220 ppbv m
 RT: 3.98 min Scan# 372
 Delta R.T. 0.02 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.2	3.4#





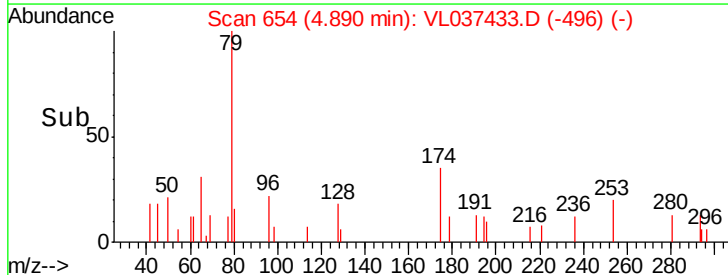
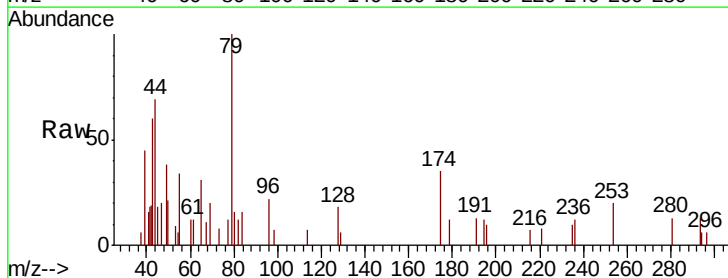
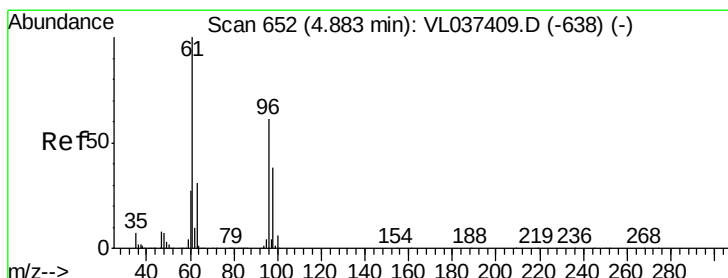
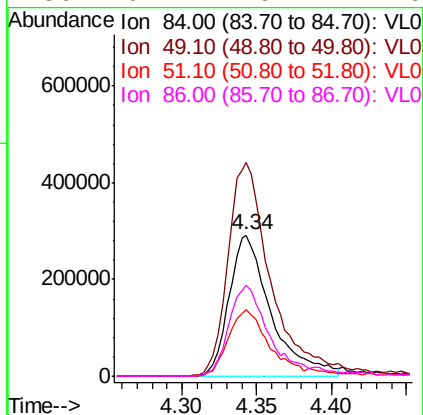
#20
Methvlene Chloride
Concen: 7.897 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	151.5	116.0	174.0		
51	47.3	37.1	55.7		
86	64.2	49.4	74.0		

Instrument :
MSVOA_L
ClientSampleId :
SVP-3REDL

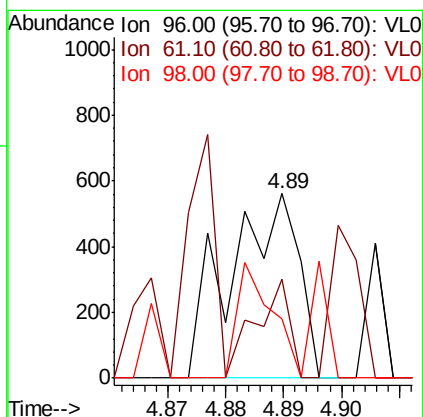
Manual Integrations
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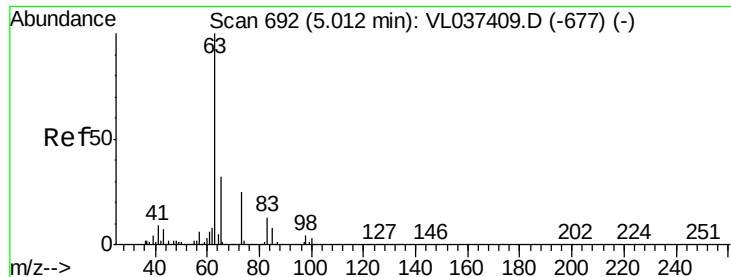
apatel
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#22
trans-1,2-Dichloroethene
Concen: 0.007 ppbv
RT: 4.89 min Scan# 654
Delta R.T. 0.01 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	0.0	131.0	196.4#		
98	32.1	50.2	75.4#		





#24

1,1-Dichloroethane

Concen: 0.003 ppbv

RT: 5.02 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

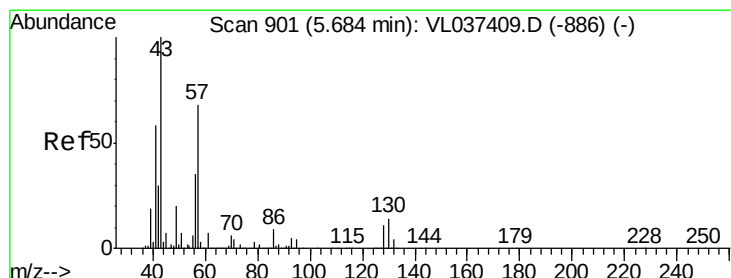
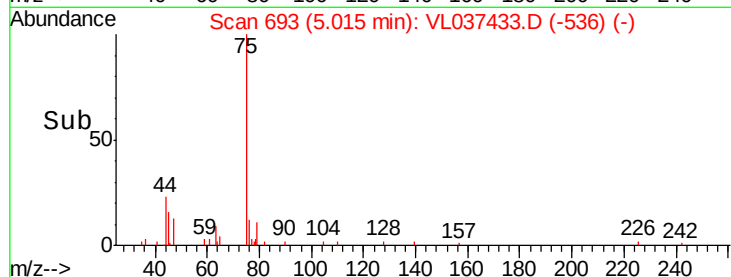
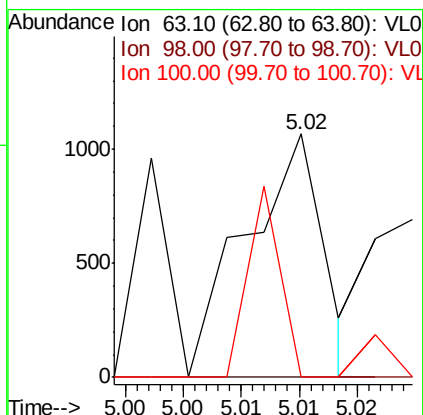
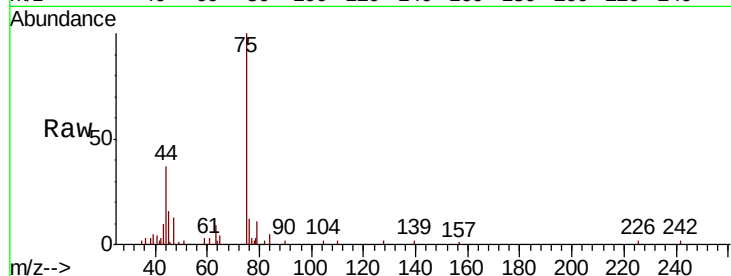
ClientSampled :

SVP-3REDL

Tot Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.3#
100	0.0	1.6	4.7#

Manual Integrations
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#26

Hexane

Concen: 4.426 ppbv

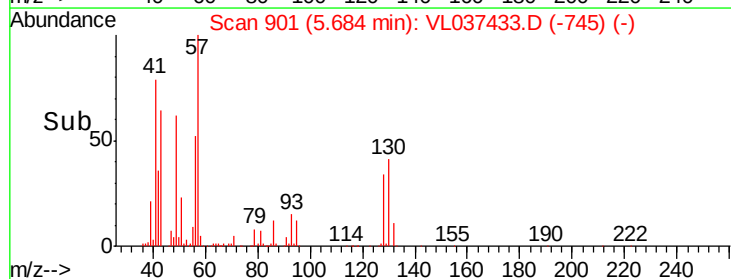
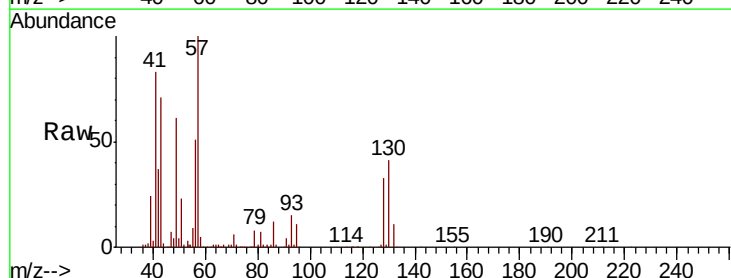
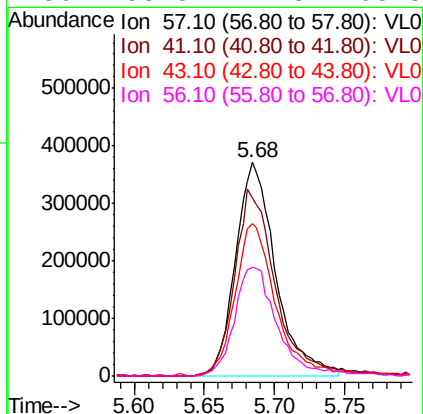
RT: 5.68 min Scan# 901

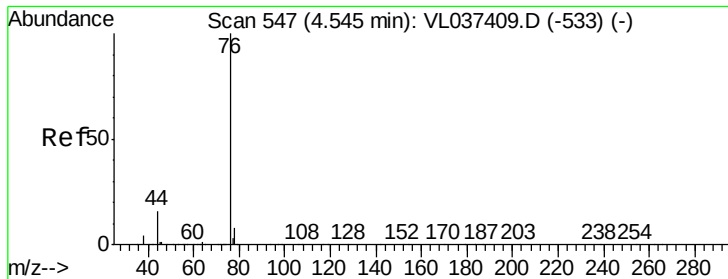
Delta R.T. 0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
57	100		
41	90.3	72.5	108.7
43	73.7	169.3	253.9#
56	55.3	42.3	63.5





#27

Carbon Disulfide

Concen: 0.085 ppbv m

RT: 4.55 min Scan# 549

Delta R.T. 0.01 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

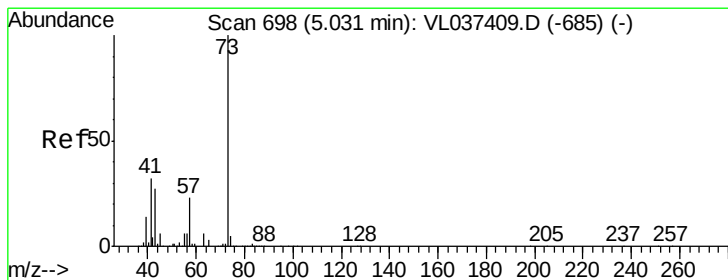
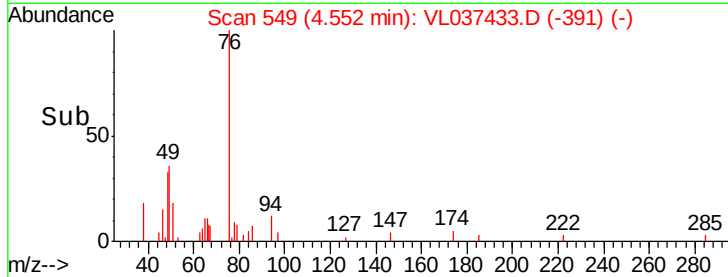
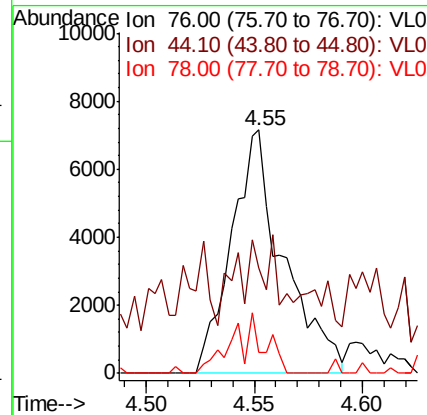
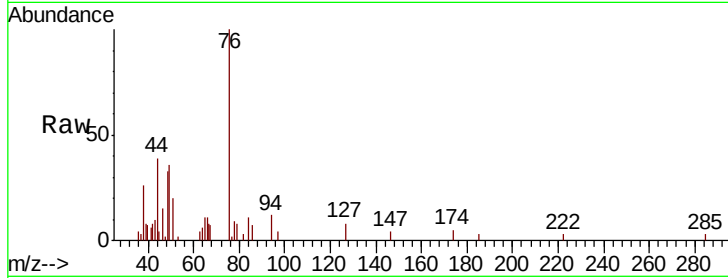
ClientSampleId :

SVP-3REDL

Tot Ion:	76	Resp:	11969
Ion Ratio	Lower	Upper	
76	100		
44	0.0	14.4	21.6#
78	0.0	8.0	12.0#

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.002 ppbv

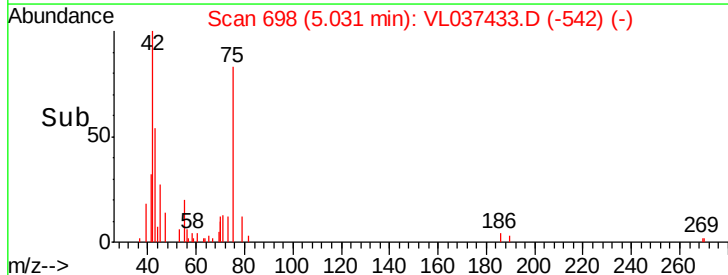
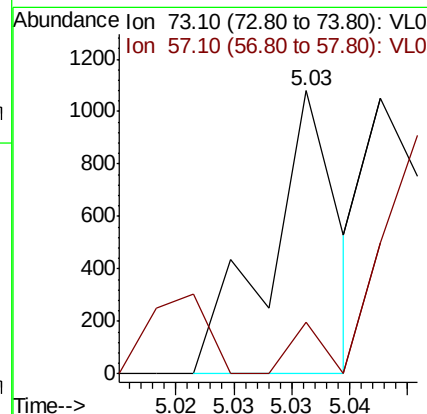
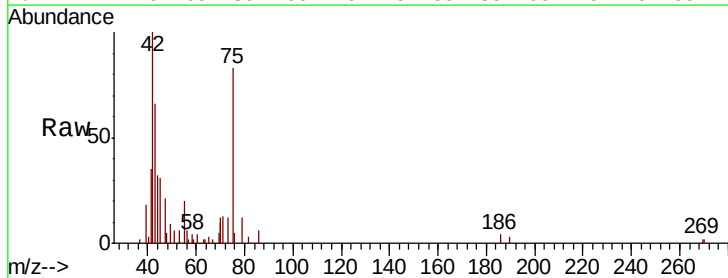
RT: 5.03 min Scan# 698

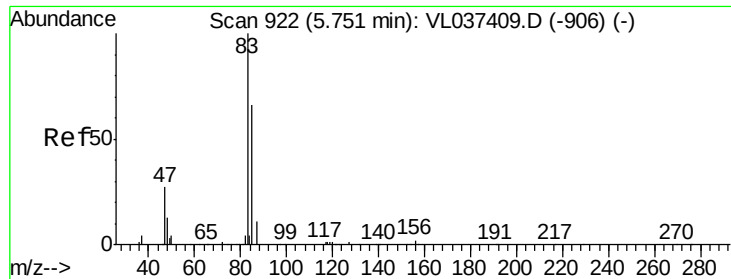
Delta R.T. 0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Tgt Ion:	73	Resp:	443
Ion Ratio	Lower	Upper	
73	100		
57	0.0	19.0	28.4#





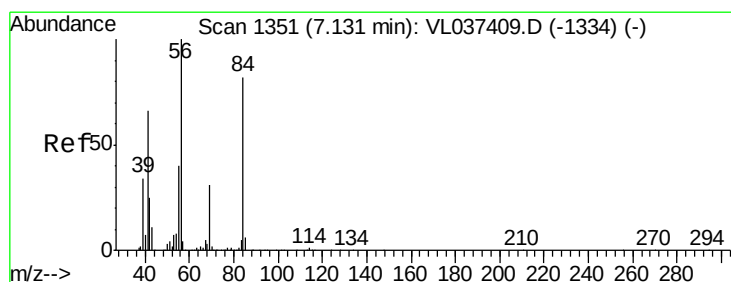
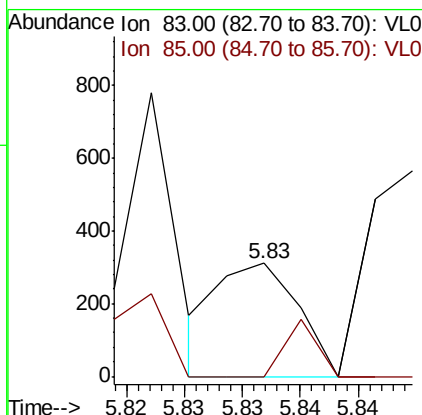
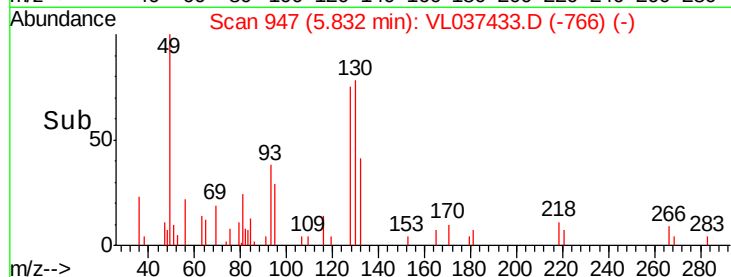
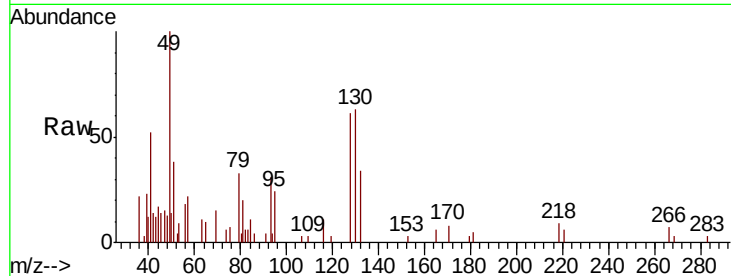
#29
Chloroform
Concen: 0.001 ppbv
RT: 5.83 min Scan# 947
Delta R.T. 0.08 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampled :
SVP-3REDL

Tot Ion: 83 Resp: 150
Ion Ratio Lower Upper
83 100
85 73.0 52.4 78.6

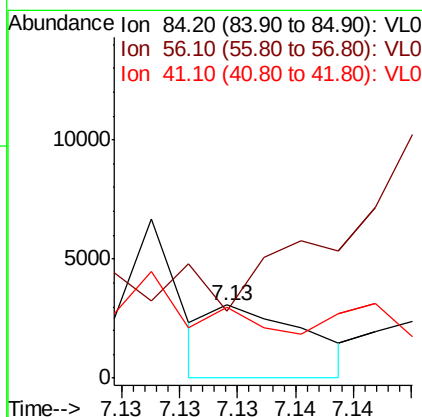
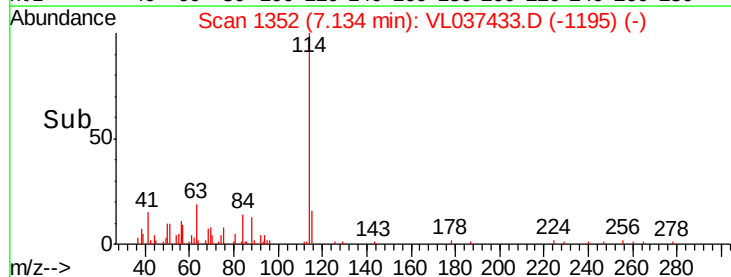
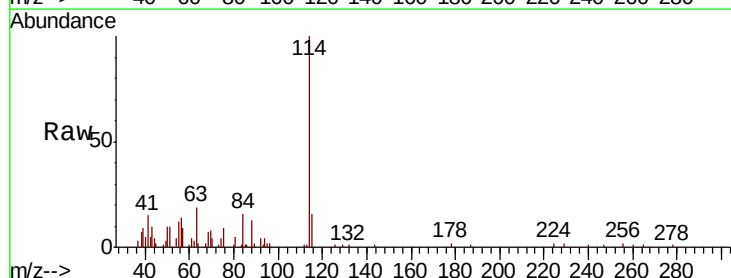
Manual Integrations
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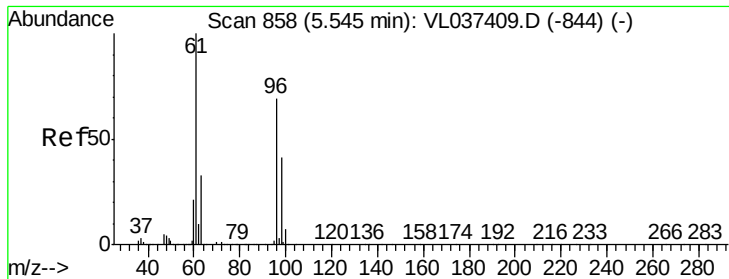
apatel
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#30
Cyclohexane
Concen: 0.013 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tgt Ion: 84 Resp: 1760
Ion Ratio Lower Upper
84 100
56 0.0 109.6 164.4#
41 0.0 66.6 99.8#





#31

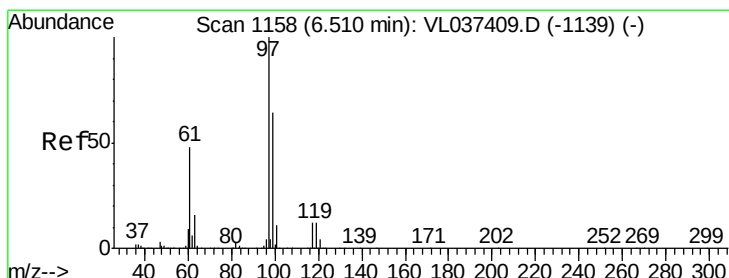
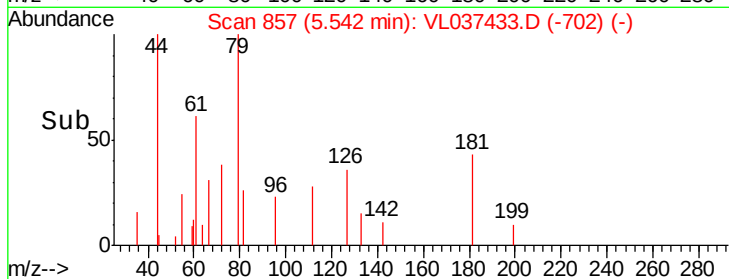
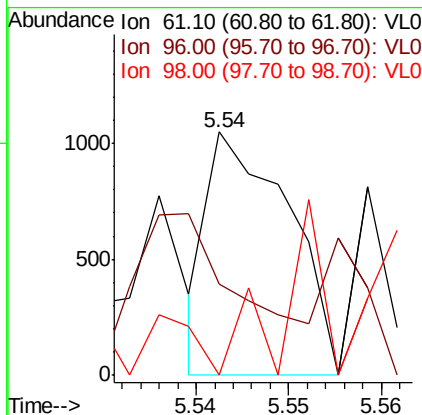
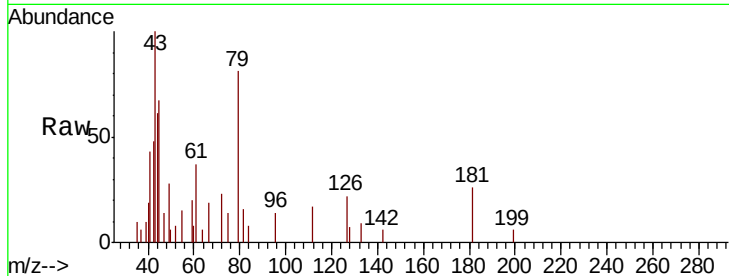
cis-1,2-Dichloroethene
Concen: 0.004 ppbv
RT: 5.54 min Scan# 857
Delta R.T. -0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampleId :
SVP-3REDL

Tot Ion	Ratio	Lower	Upper
61	100		
96	0.0	55.5	83.3#
98	0.0	33.1	49.7#

Manual Integrations
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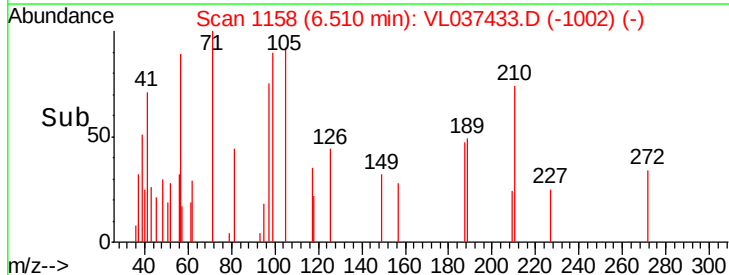
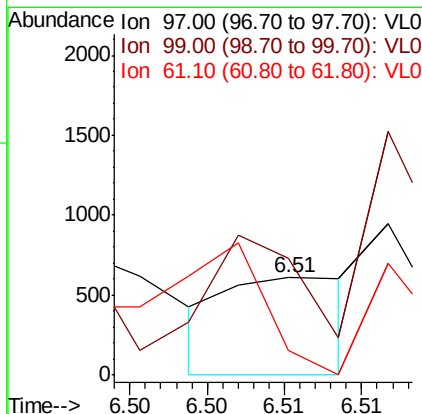
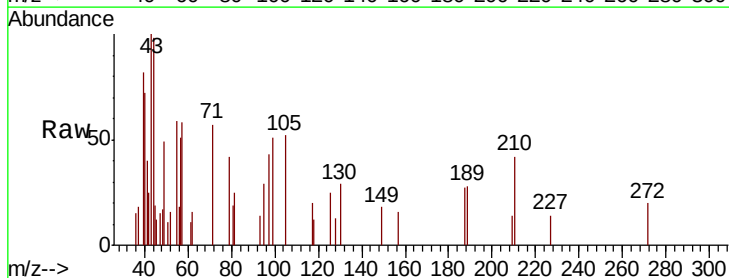
apatel
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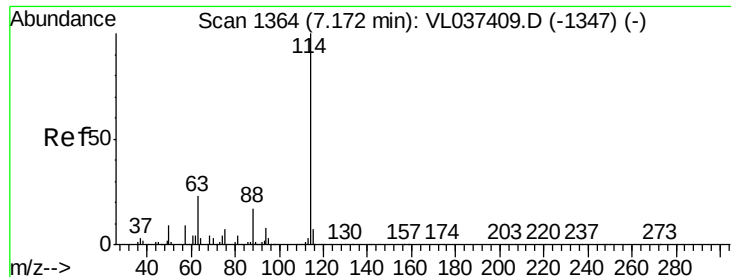


#32

1,1,1-Trichloroethane
Concen: 0.001 ppbv
RT: 6.51 min Scan# 1158
Delta R.T. 0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	248.2	40.1	60.1#





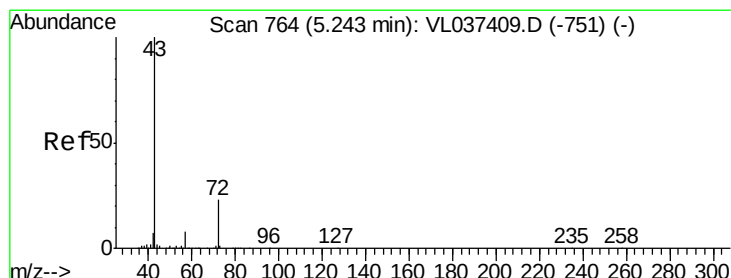
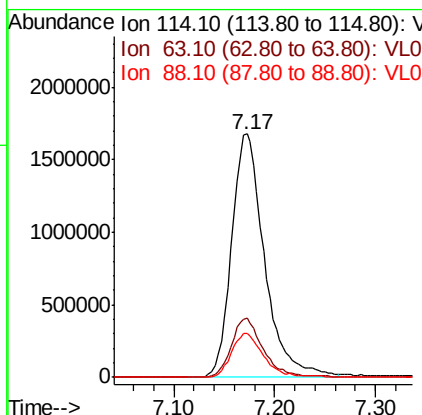
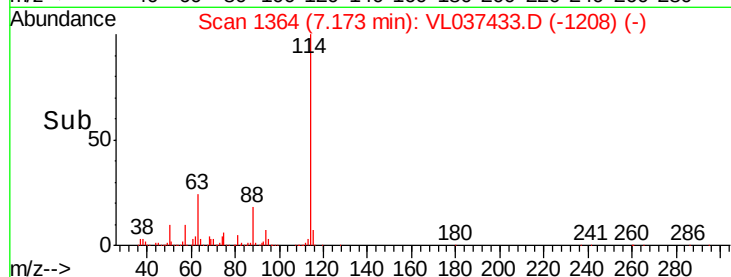
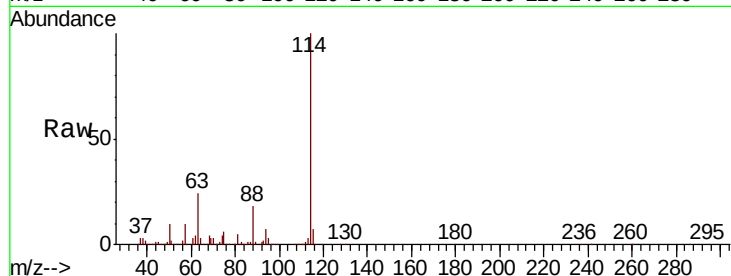
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3REDL

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.7	19.4	29.2
88	18.1	14.2	21.4

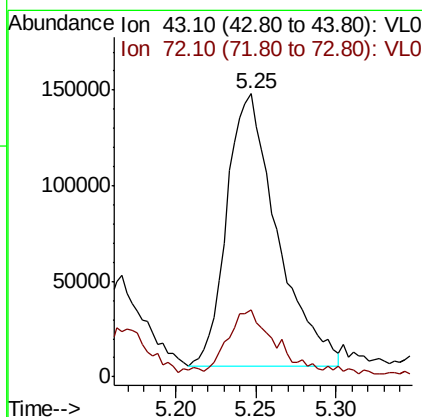
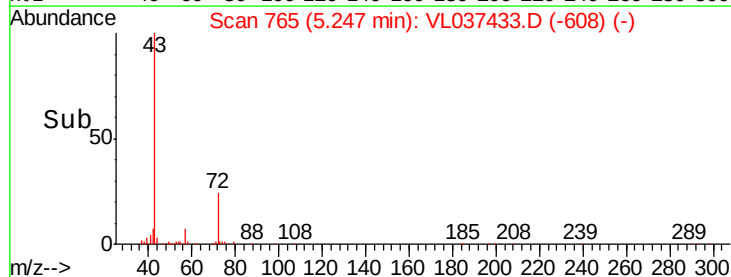
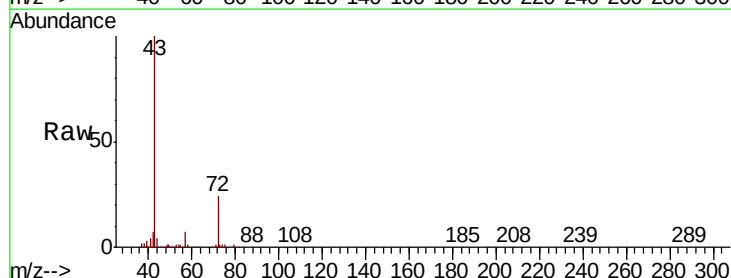
Manual Integrations
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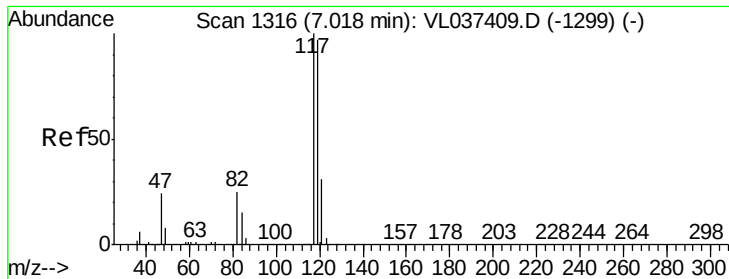
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#34
 2-Butanone
 Concen: 1.958 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.1	17.7	26.5





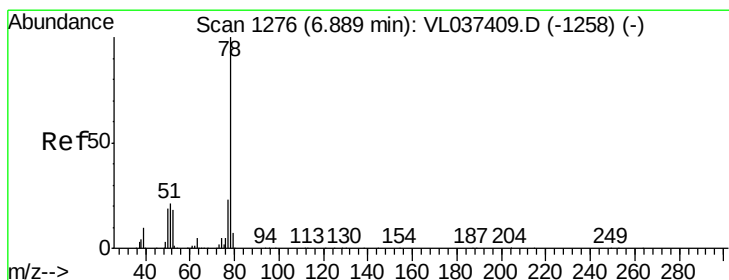
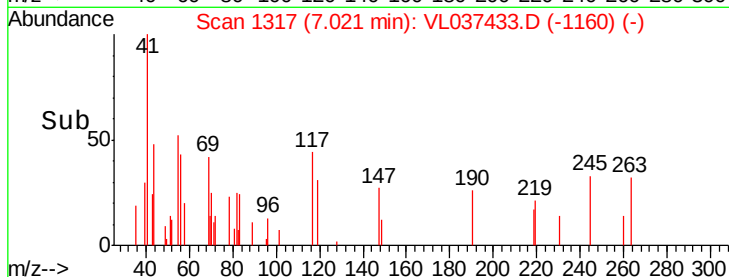
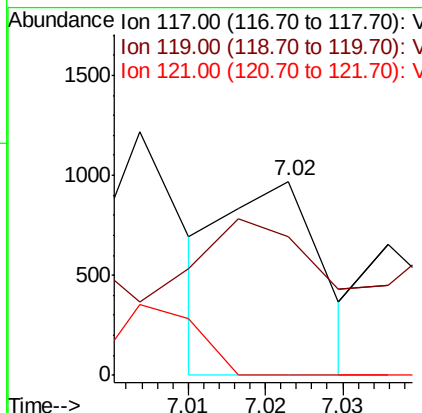
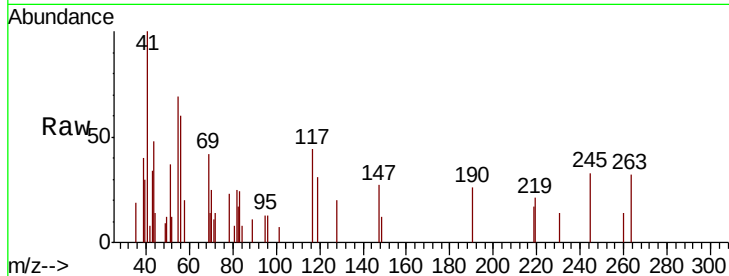
#35
Carbon Tetrachloride
Concen: 0.002 ppbv
RT: 7.02 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampled :
SVP-3REDL

Tot Ion	Ratio	Lower	Upper
117	100		
119	43.1	77.5	116.3#
121	0.0	24.7	37.1#

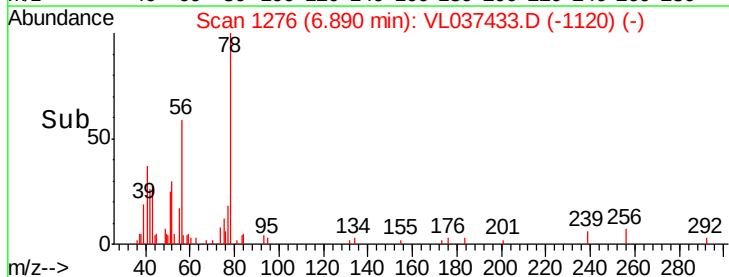
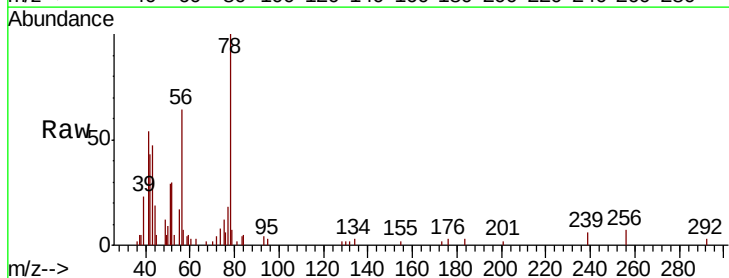
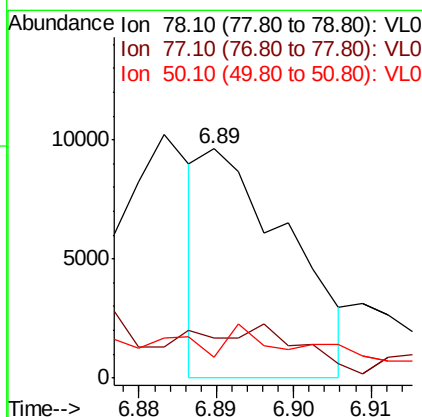
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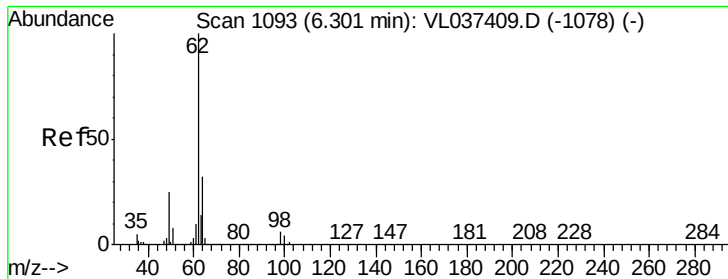
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#36
Benzene
Concen: 0.023 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. 0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.1	18.6	27.8
50	0.0	14.9	22.3#





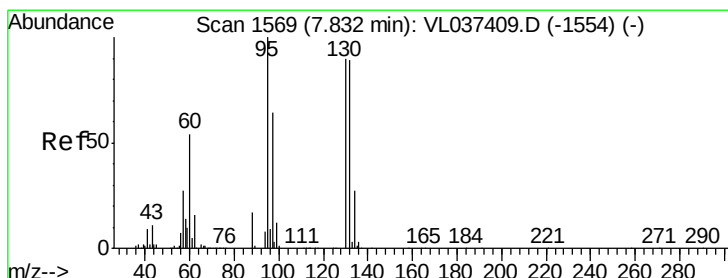
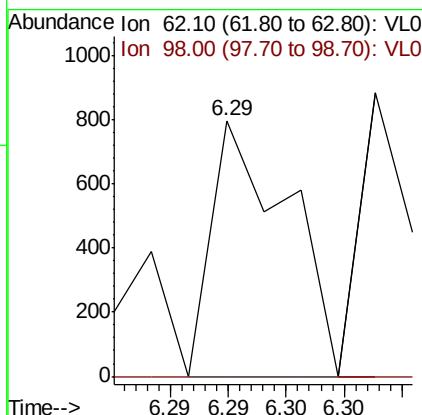
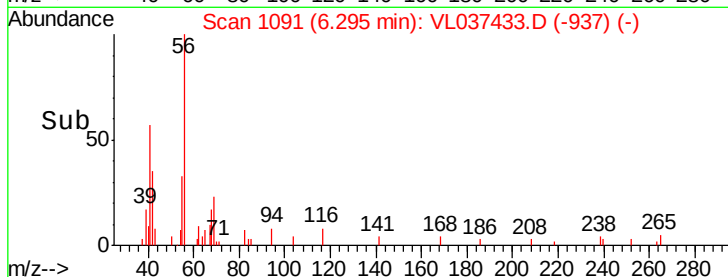
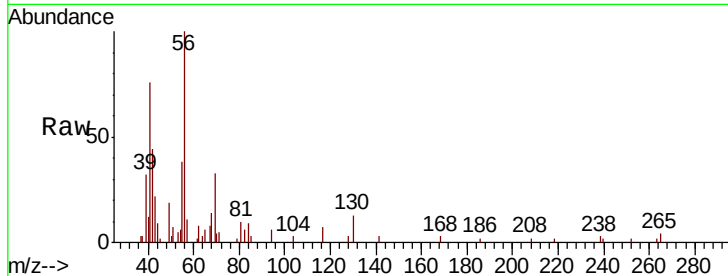
#37
 1,2-Dichloroethane
 Concen: 0.002 ppbv
 RT: 6.29 min Scan# 1091
 Delta R.T. -0.01 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Instrument :
 MSVOA_L
 ClientSampled :
 SVP-3REDL

Tot Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.4	8.2#

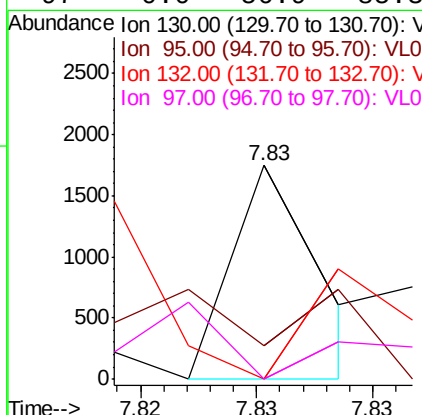
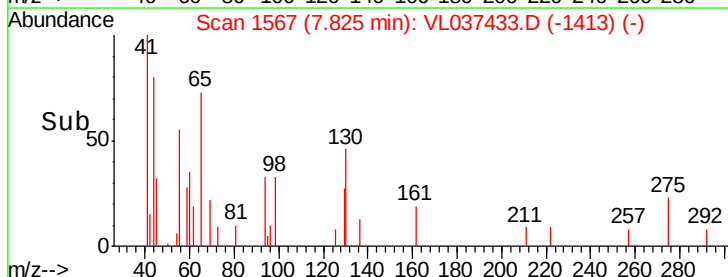
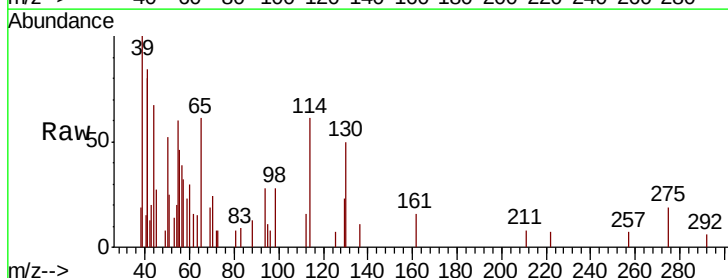
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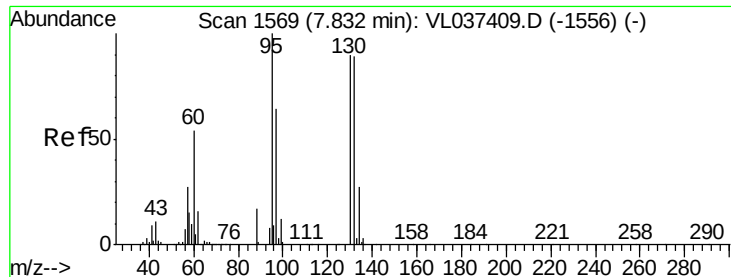
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#38
 Trichloroethene
 Concen: 0.003 ppbv
 RT: 7.83 min Scan# 1567
 Delta R.T. -0.01 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
130	100		
95	0.0	88.6	132.8#
132	0.0	79.2	118.8#
97	0.0	56.9	85.3#





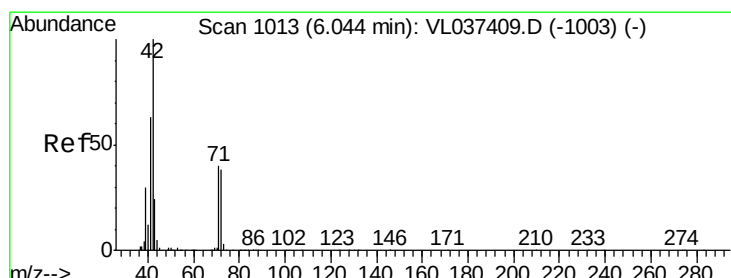
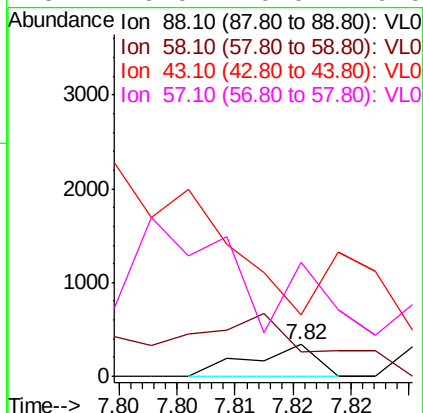
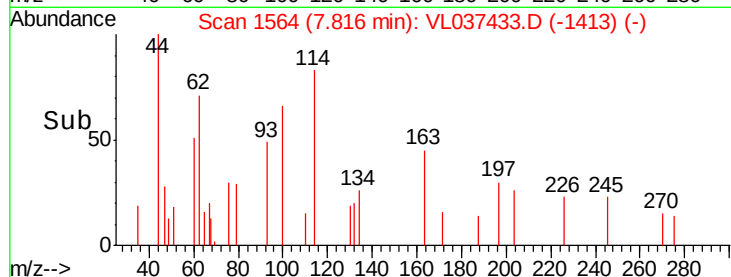
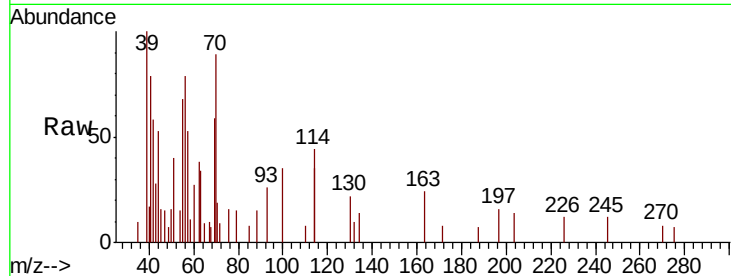
#40
1,4-Dioxane
Concen: 0.004 ppbv
RT: 7.82 min Scan# 1564
Delta R.T. -0.02 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampled :
SVP-3REDL

Tot Ion	88	Resp	133
Ion	Ratio	Lower	Upper
88	100		
58	0.0	0.0	0.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0

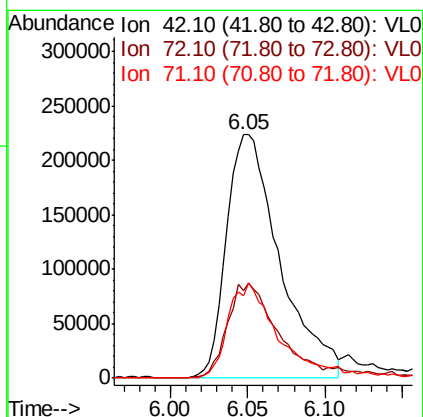
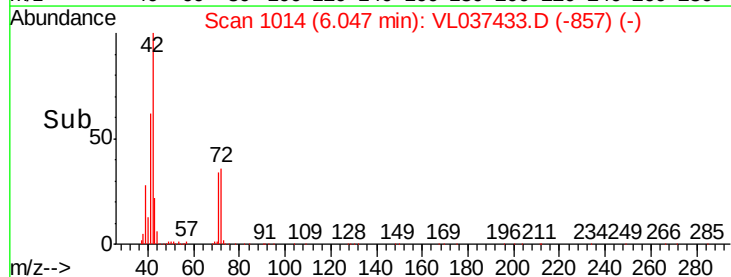
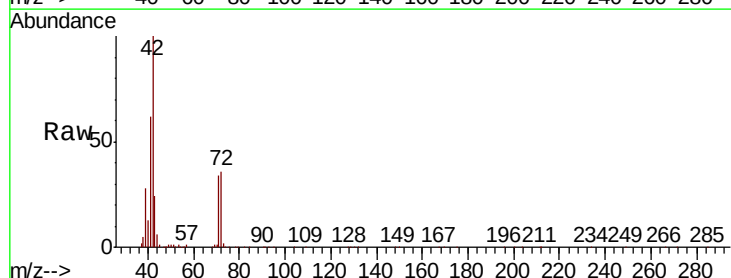
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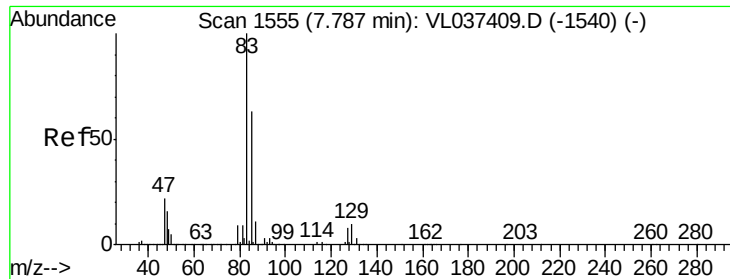
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#41
Tetrahydrofuran
Concen: 7.422 ppbv
RT: 6.05 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tgt Ion	42	Resp	535084
Ion	Ratio	Lower	Upper
42	100		
72	41.2	33.5	50.3
71	39.3	32.6	48.8





#42

Bromodichloromethane

Concen: 0.003 ppbv

RT: 7.78 min Scan# 1554

Delta R.T. -0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

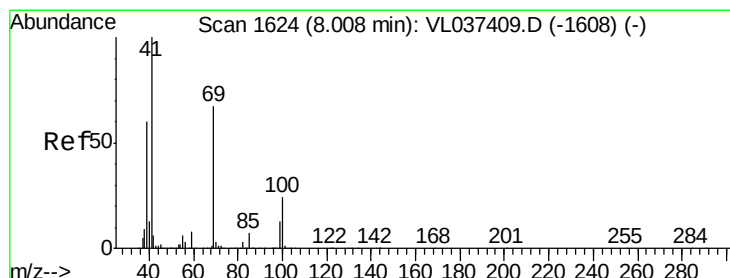
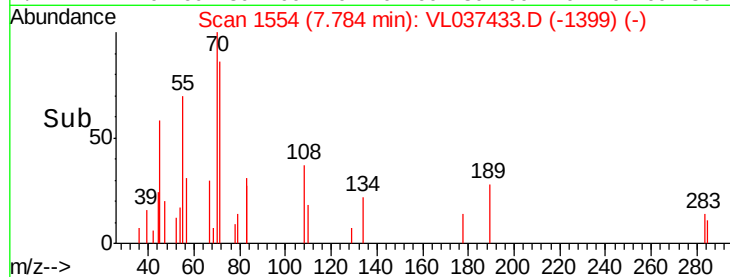
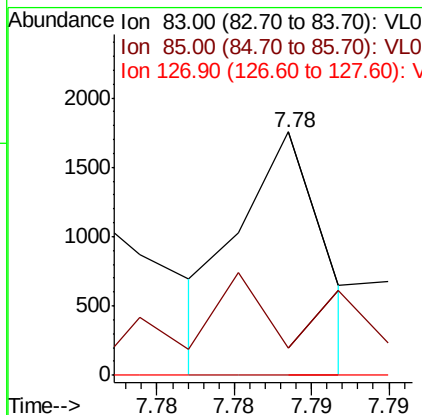
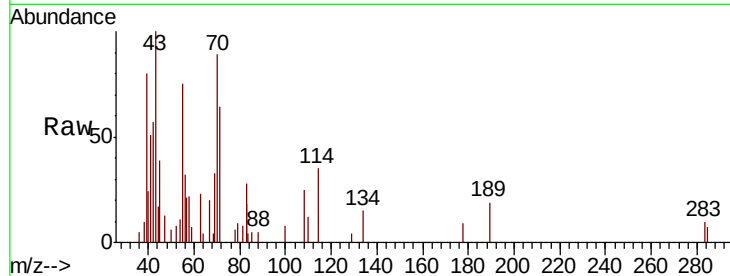
ClientSampled :

SVP-3REDL

Tot Ion:	83	Resp:	662
Ion Ratio	Lower	Upper	
83	100		
85	1.3	50.2	75.2#
127	0.0	6.6	9.8#

Manual Integrations
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#43

Methyl Methacrylate

Concen: 0.002 ppbv

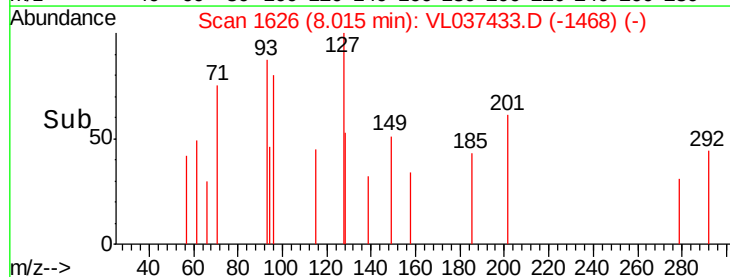
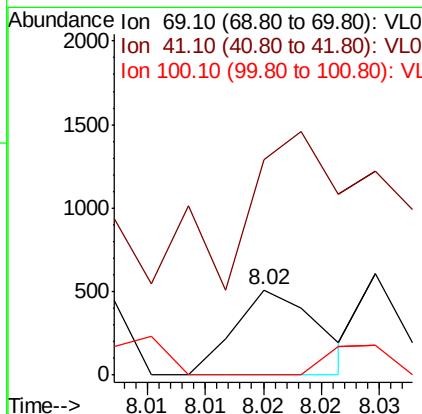
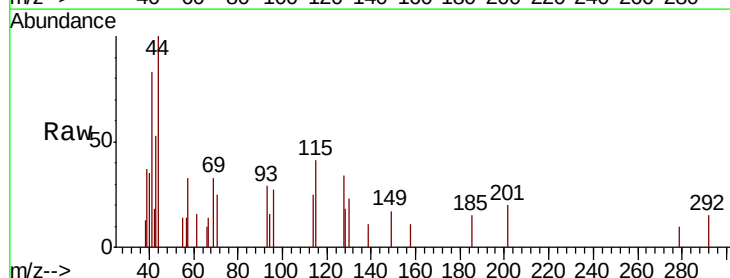
RT: 8.02 min Scan# 1626

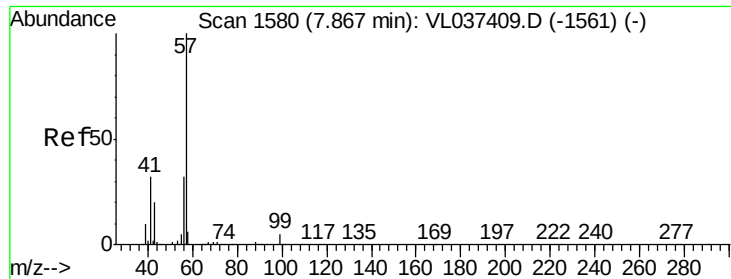
Delta R.T. 0.01 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Tgt Ion:	69	Resp:	253
Ion Ratio	Lower	Upper	
69	100		
41	0.0	118.1	177.1#
100	0.0	27.6	41.4#





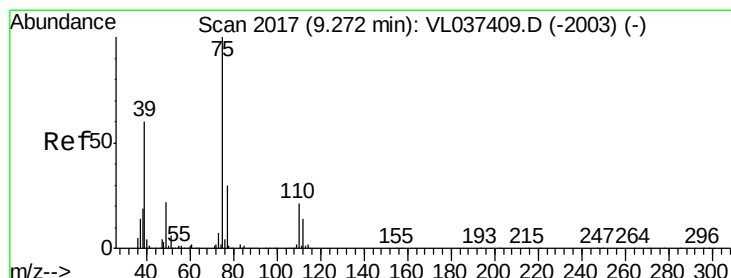
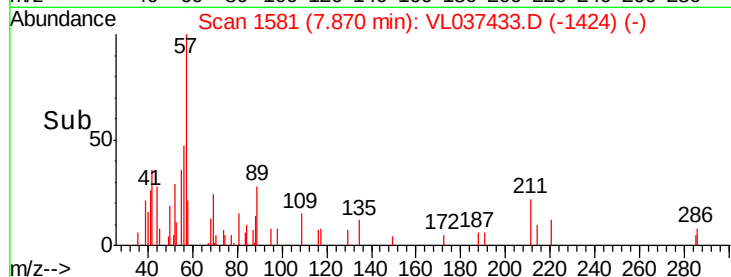
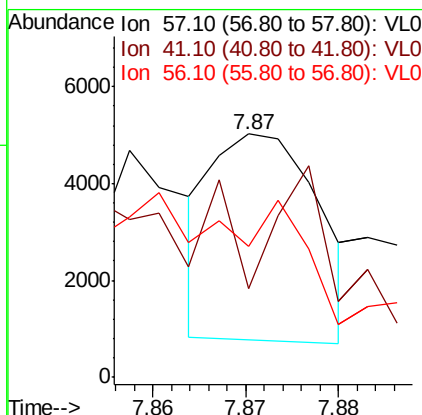
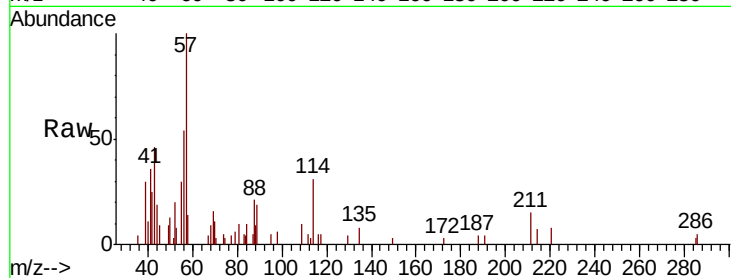
#44
 2,2,4-Trimethylpentane
 Concen: 0.006 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3REDL

Tot Ion	Ratio	Lower	Upper
57	100		
41	366.6	26.4	39.6#
56	0.0	25.0	37.4#

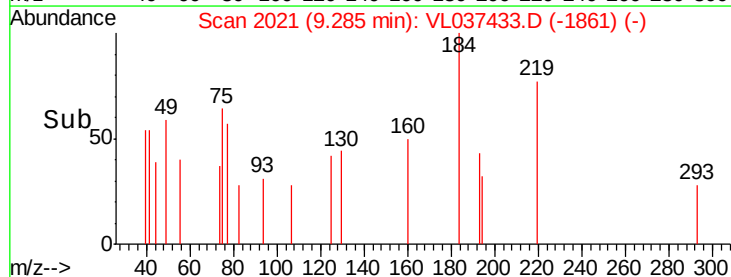
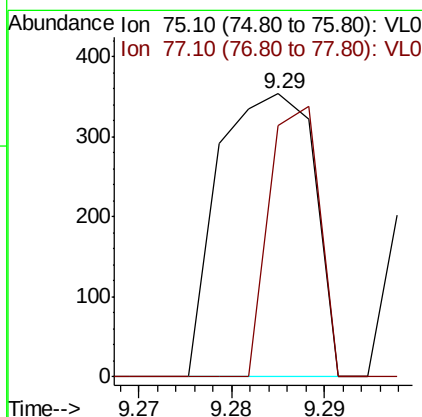
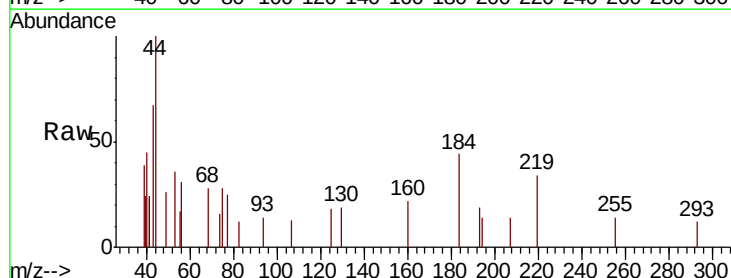
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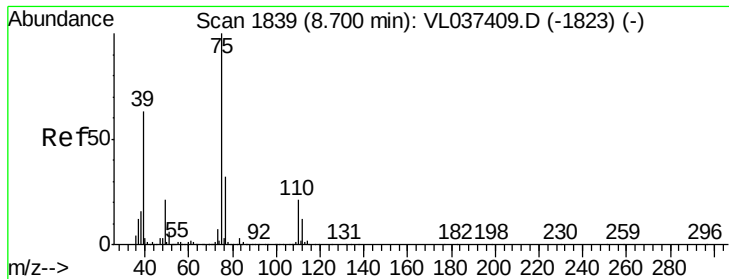
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#45
 t-1,3-Dichloropropene
 Concen: 0.003 ppbv
 RT: 9.29 min Scan# 2021
 Delta R.T. 0.01 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
75	100		
77	89.0	24.2	36.2#





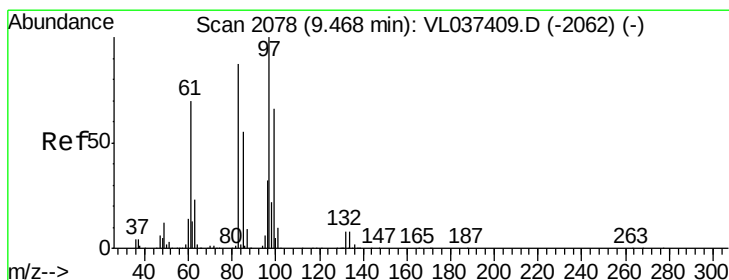
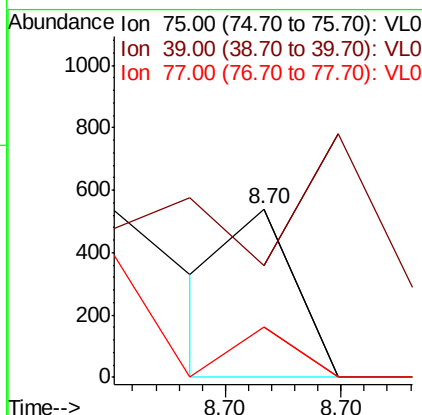
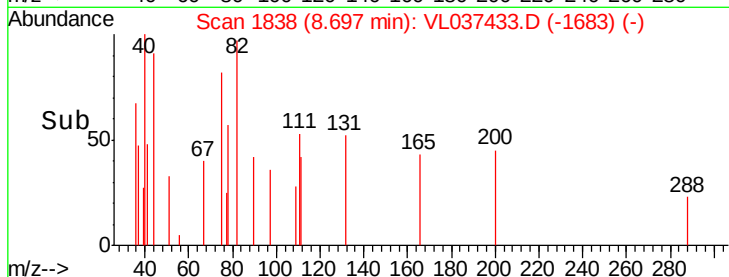
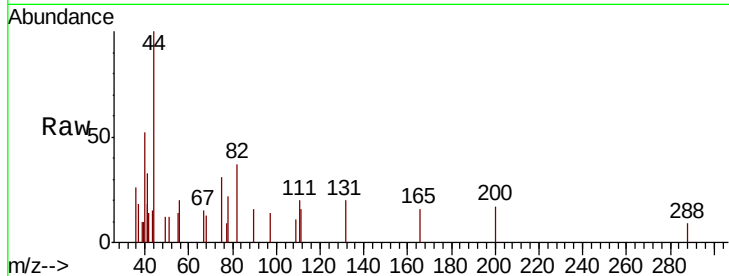
#46
 cis-1,3-Dichloropropene
 Concen: 0.001 ppbv
 RT: 8.70 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Instrument :
 MSVOA_L
 ClientSampled :
 SVP-3REDL

Tot Ion	Ratio	Lower	Upper
75	100		
39	0.0	50.1	75.1#
77	30.0	25.8	38.8

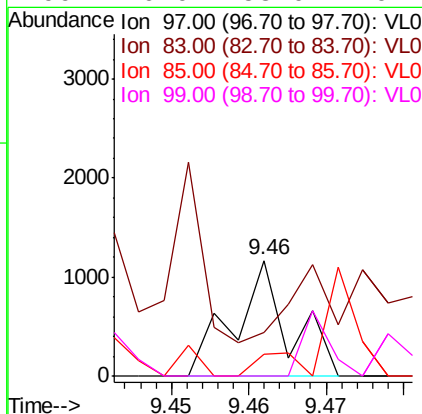
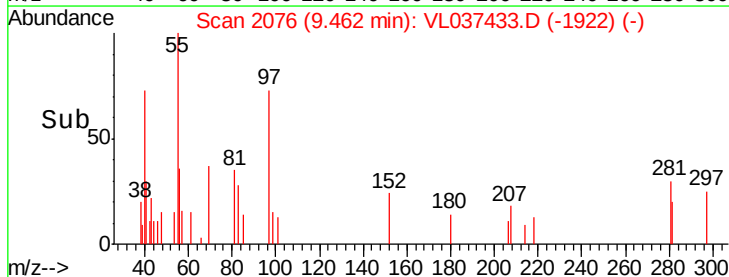
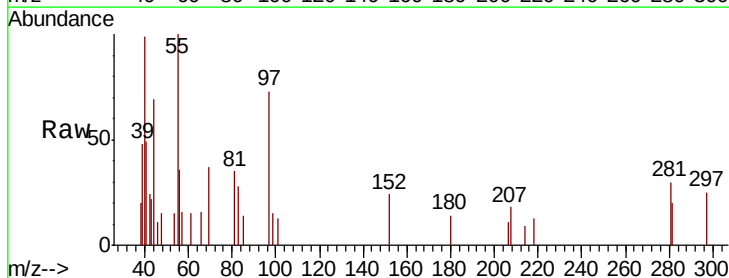
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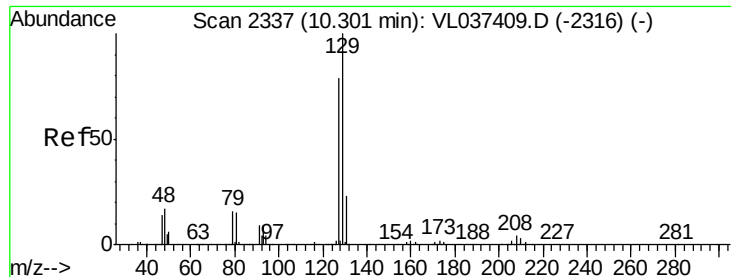
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#47
 1,1,2-Trichloroethane
 Concen: 0.004 ppbv
 RT: 9.46 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.5	104.3#
85	0.0	43.8	65.8#
99	0.0	53.0	79.4#





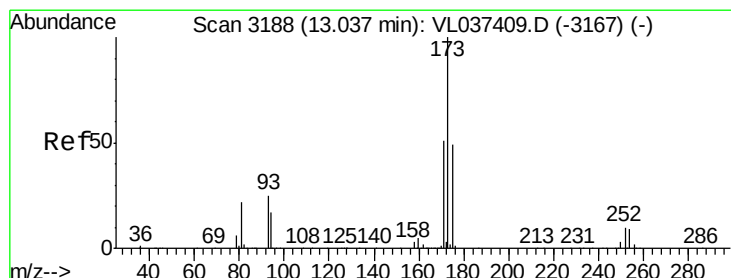
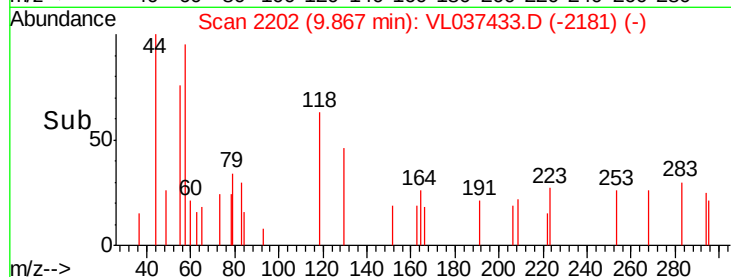
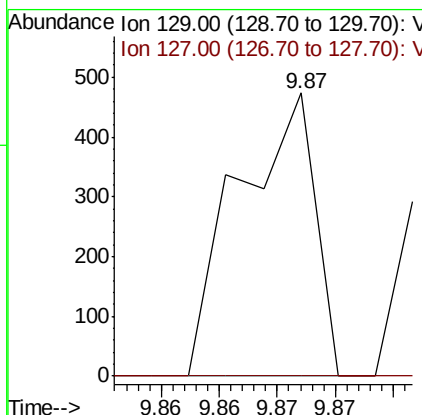
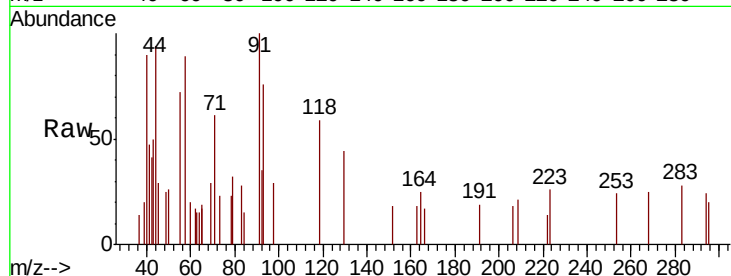
#48
Dibromochloromethane
Concen: 0.001 ppbv
RT: 9.87 min Scan# 2202
Delta R.T. -0.43 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampleId :
SVP-3REDL

Tot Ion:129 Resp: 216
Ion Ratio Lower Upper
129 100
127 73.1 39.6 118.8

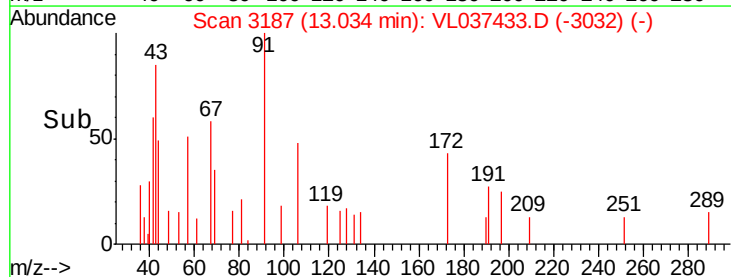
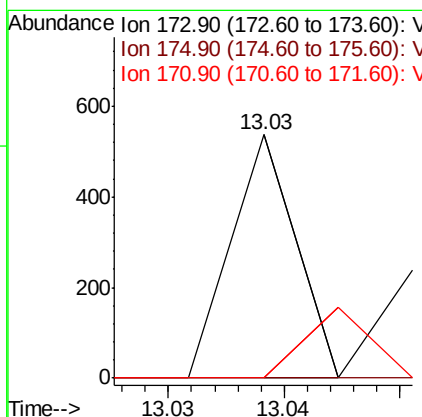
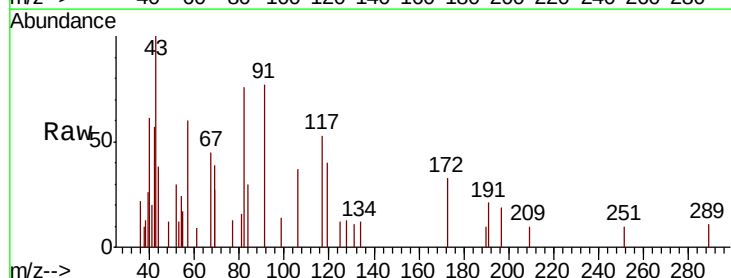
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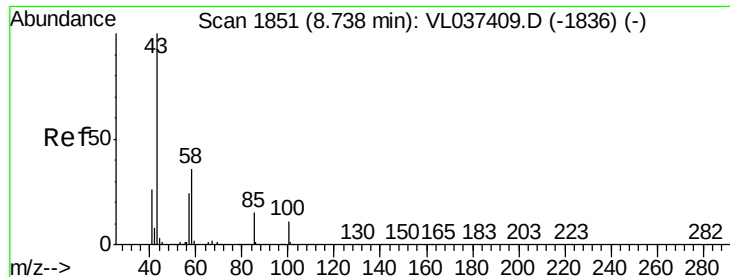
apatel
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#49
Bromoform
Concen: 0.001 ppbv
RT: 13.03 min Scan# 3187
Delta R.T. -0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tgt Ion:173 Resp: 104
Ion Ratio Lower Upper
173 100
175 0.0 39.9 59.9#
171 0.0 41.4 62.2#





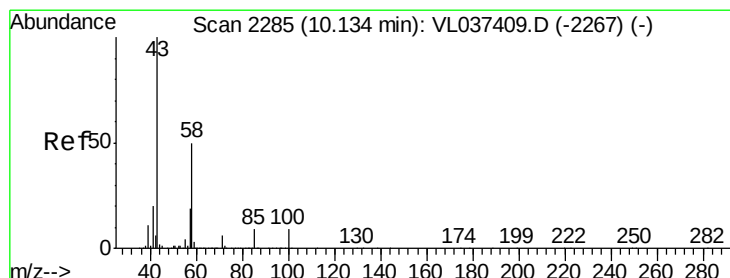
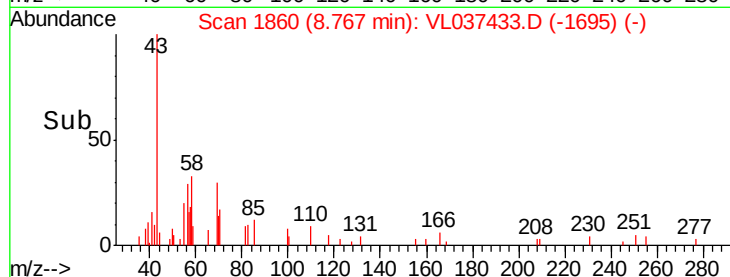
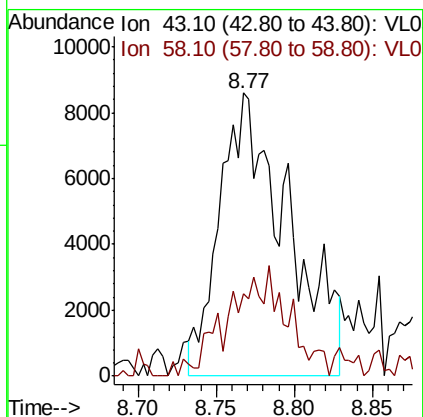
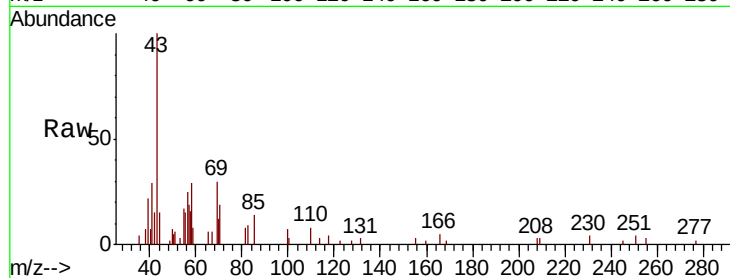
#50
4-Methyl-2-Pentanone
Concen: 0.131 ppbv
RT: 8.77 min Scan# 1860
Delta R.T. 0.03 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampled :
SVP-3REDL

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.9	44.9#

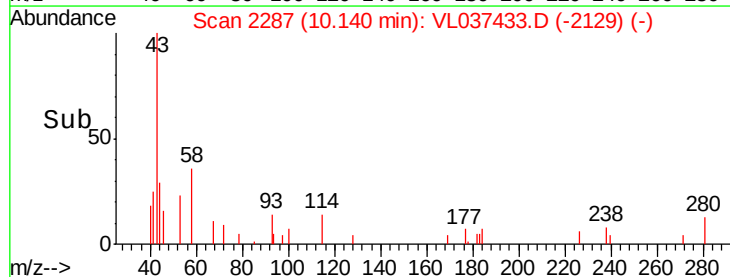
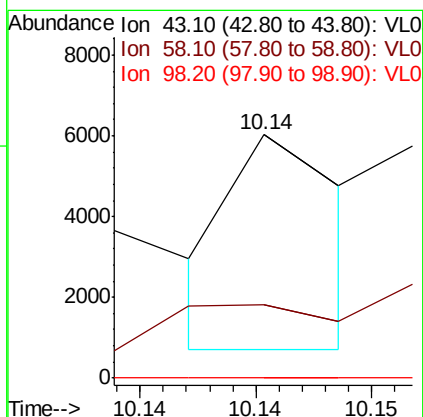
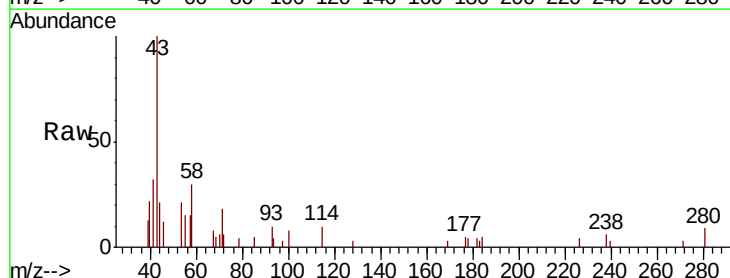
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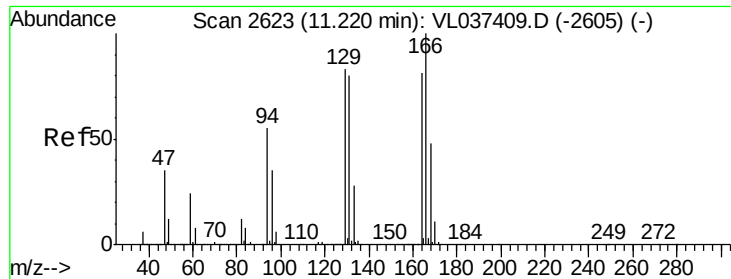
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#51
2-Hexanone
Concen: 0.019 ppbv
RT: 10.14 min Scan# 2287
Delta R.T. 0.01 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

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





#52

Tetrachloroethene

Concen: 0.278 ppbv

RT: 11.22 min Scan# 2622

Delta R.T. -0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

ClientSampleId :

SVP-3REDL

Tot Ion:164 Resp: 37502

Ion Ratio Lower Upper

164 100

166 124.5 98.6 147.8

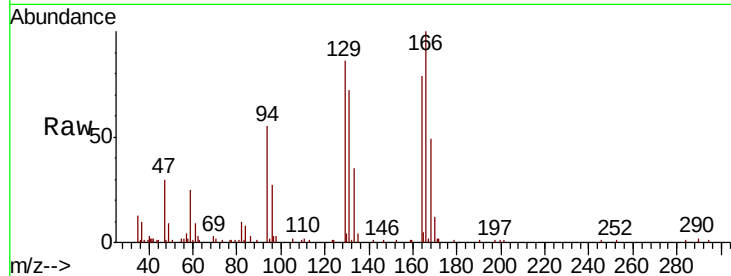
129 108.8 82.0 123.0

131 88.3 78.6 117.8

Manual Integrations
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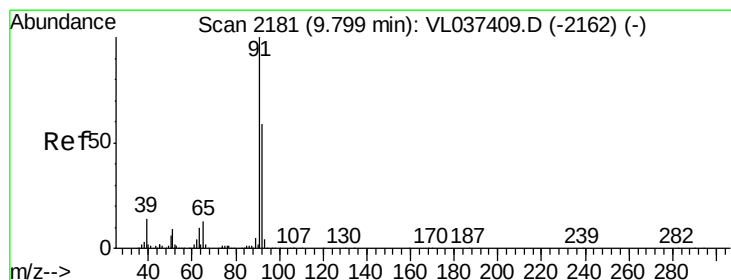
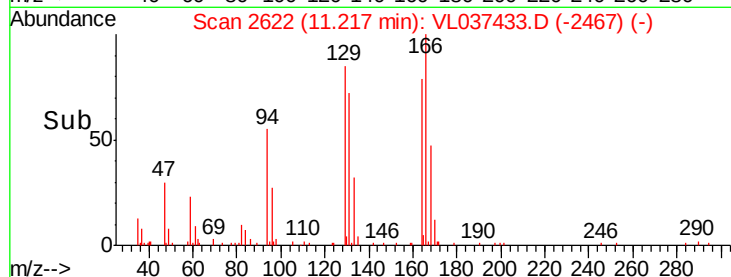
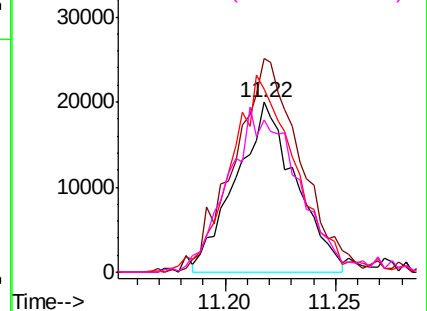
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.140 ppbv m

RT: 9.80 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL037433.D

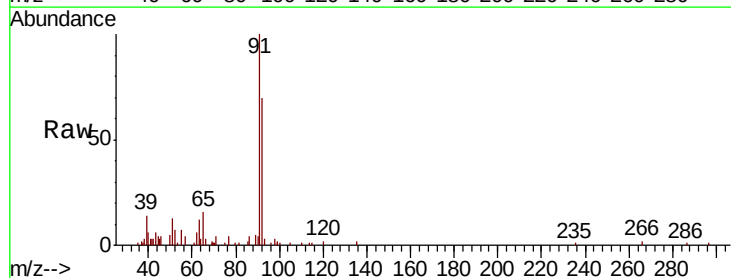
Acq: 13 Aug 2021 4:06

Tgt Ion: 91 Resp: 51210

Ion Ratio Lower Upper

91 100

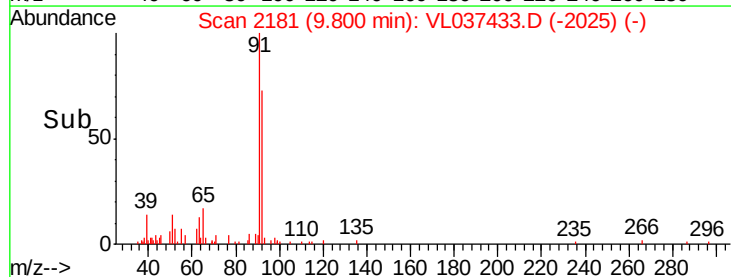
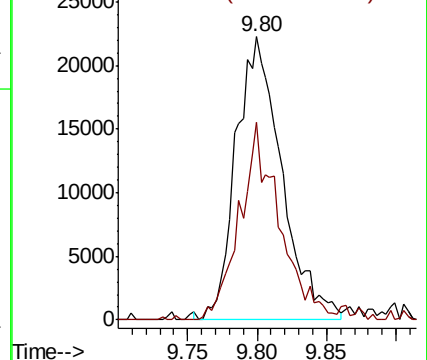
92 62.4 49.0 73.6

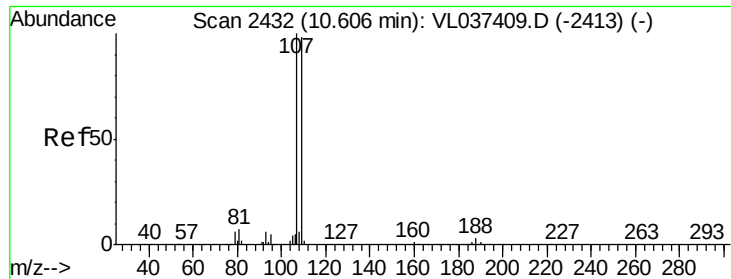


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.001 ppbv

RT: 10.60 min Scan# 2431

Delta R.T. -0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

ClientSampled :

SVP-3REDL

Tot Ion:107 Resp: 184

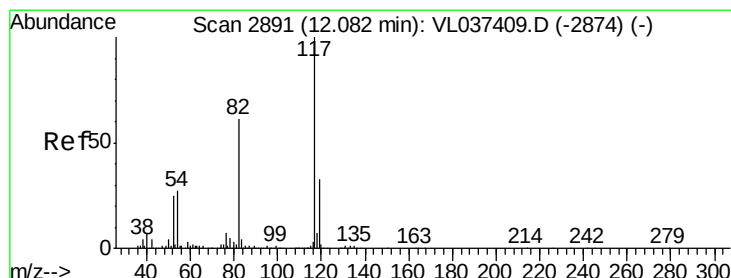
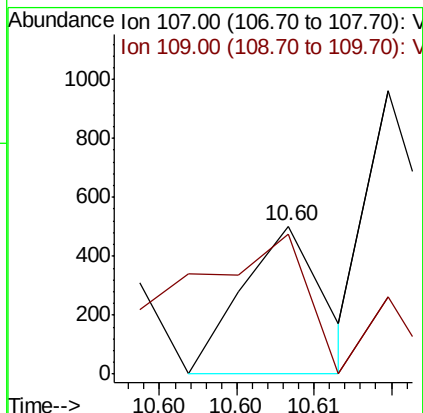
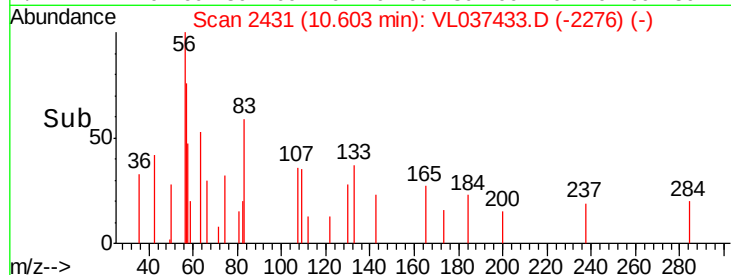
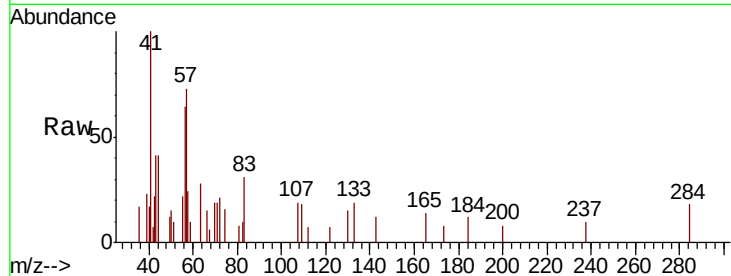
Ion Ratio Lower Upper

107 100

109 95.0 78.4 117.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

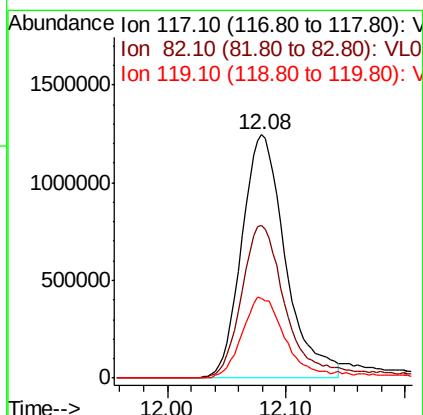
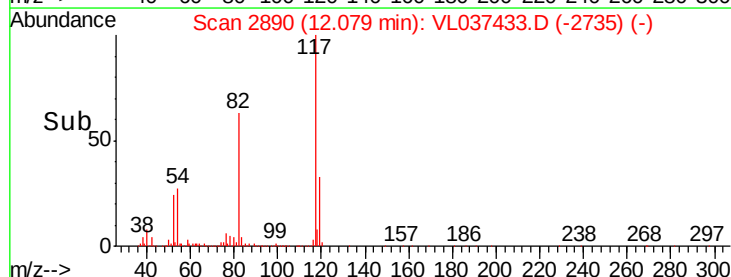
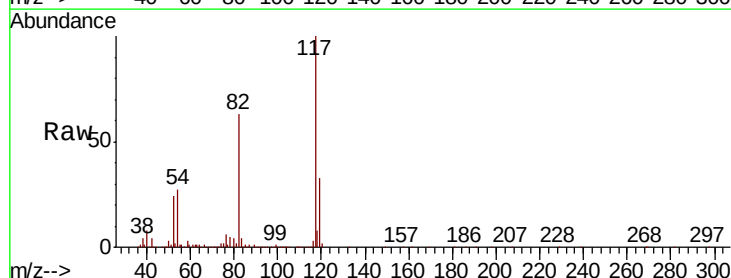
Tgt Ion:117 Resp: 3162475

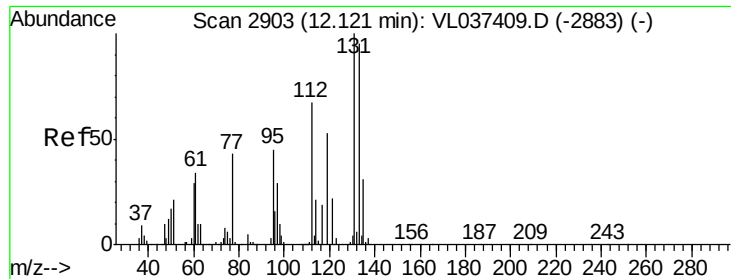
Ion Ratio Lower Upper

117 100

82 67.4 53.1 79.7

119 36.2 28.0 42.0





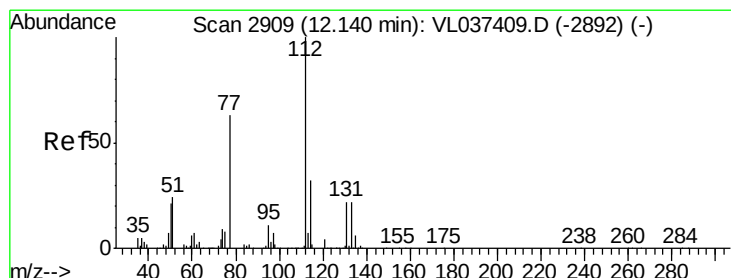
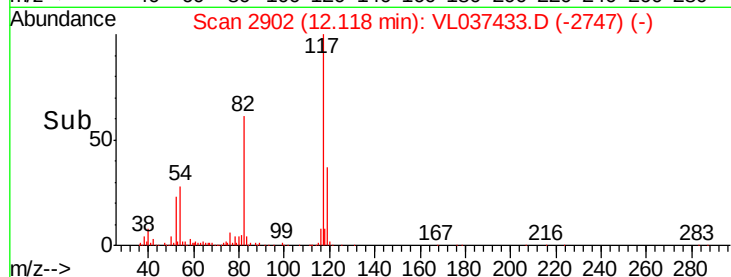
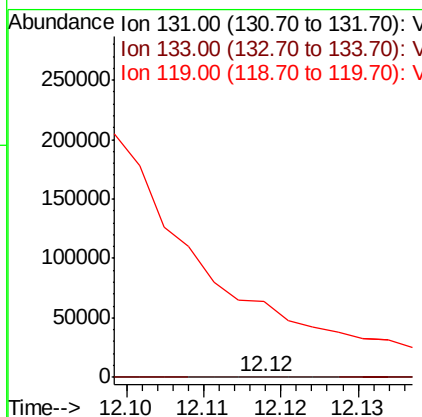
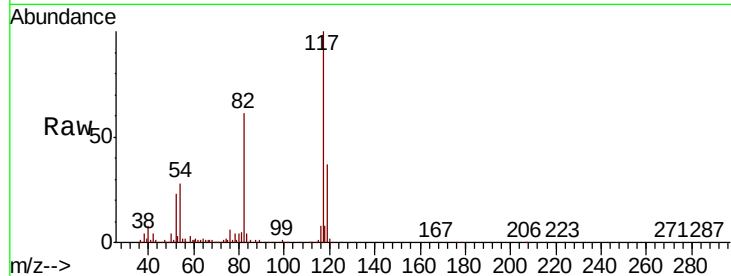
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.003 ppbv
 RT: 12.12 min Scan# 2902
 Delta R.T. -0.00 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3REDL

Tot Ion	Ratio	Lower	Upper
131	100		
133	0.0	77.1	115.7#
119	0.0	59.7	89.5#

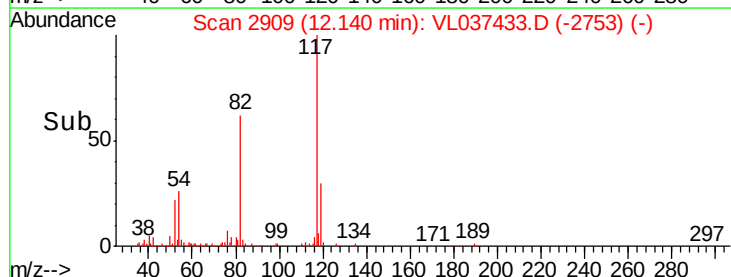
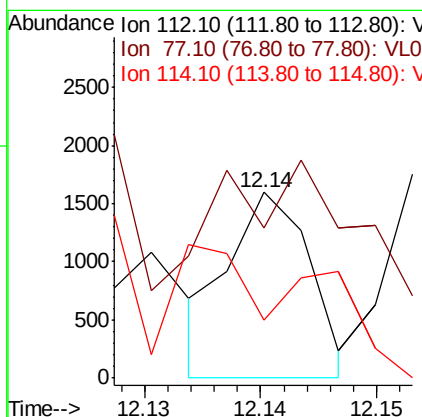
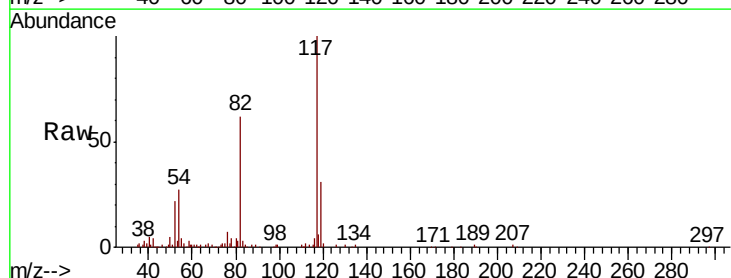
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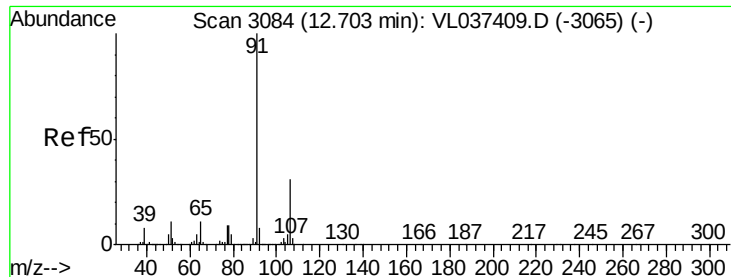
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#57
 Chlorobenzene
 Concen: 0.003 ppbv
 RT: 12.14 min Scan# 2909
 Delta R.T. 0.00 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
112	100		
77	17.6	50.0	75.0#
114	0.0	28.5	34.9#





#58

Ethyl Benzene

Concen: 0.022 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. 0.28 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

ClientSampled :

SVP-3REDL

Tot Ion: 91 Resp: 9301

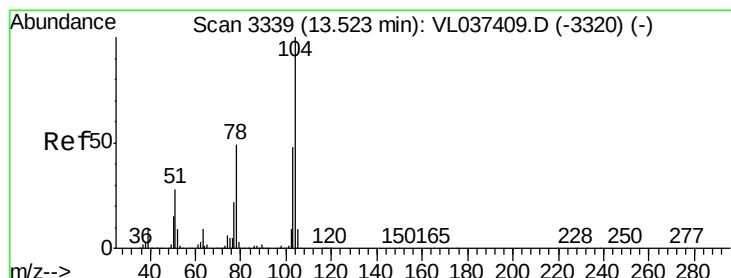
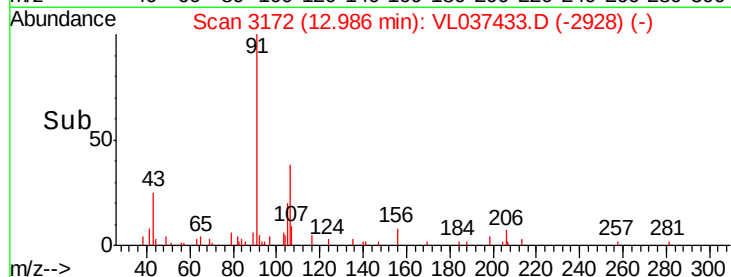
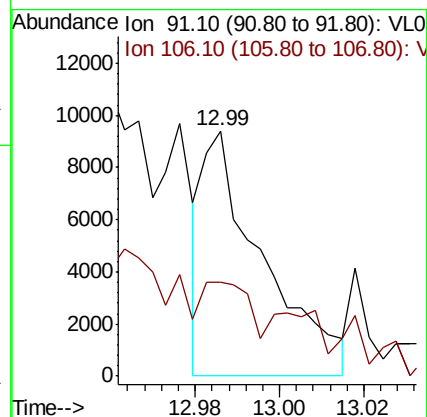
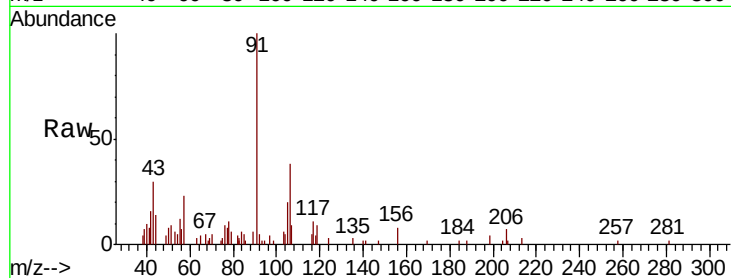
Ion Ratio Lower Upper

91 100

106 27.0 24.7 37.1

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#61

Styrene

Concen: 0.007 ppbv

RT: 13.51 min Scan# 3336

Delta R.T. -0.01 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

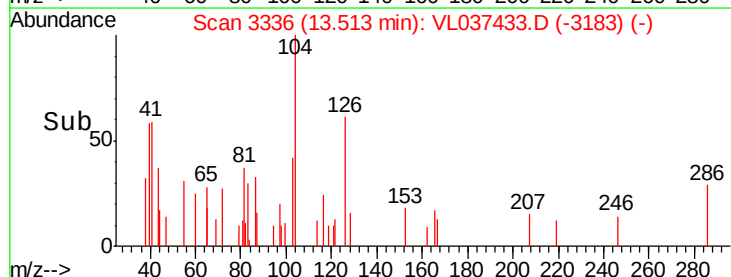
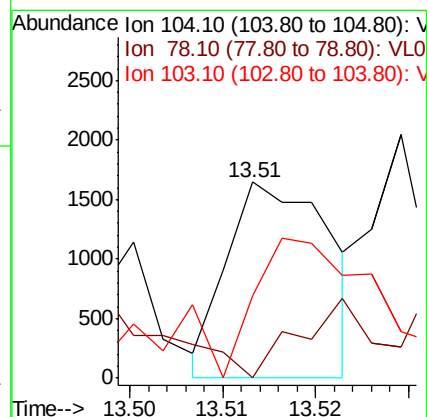
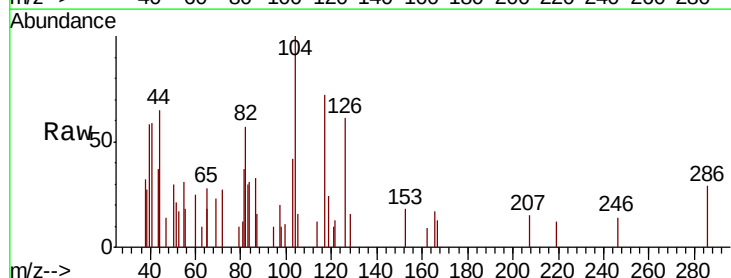
Tgt Ion: 104 Resp: 1266

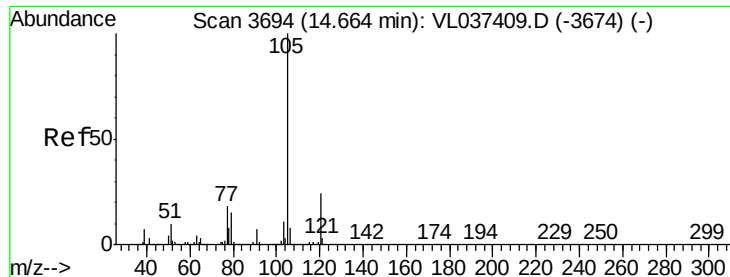
Ion Ratio Lower Upper

104 100

78 0.0 41.5 62.3#

103 148.7 40.2 60.2#





#62

Isopropylbenzene

Concen: 0.003 ppbv

RT: 14.66 min Scan# 3692

Delta R.T. -0.01 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

ClientSampled :

SVP-3REDL

Tot Ion: 105 Resp: 1611

Ion Ratio Lower Upper

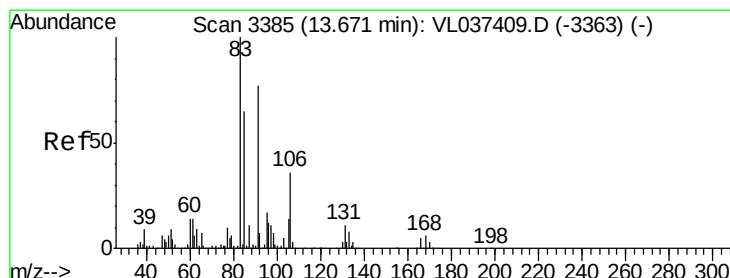
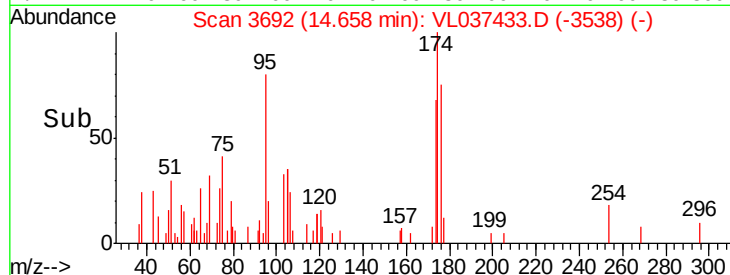
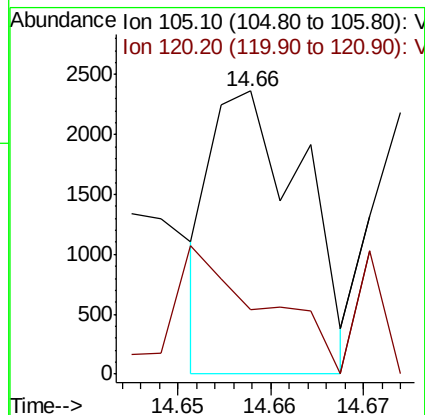
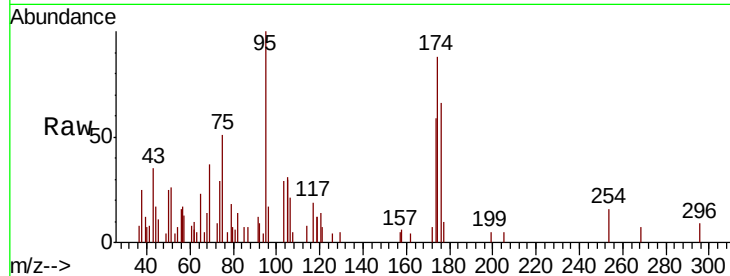
105 100

120 88.5 21.6 32.4#

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#63

1,1,2,2-Tetrachloroethane

Concen: 0.001 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

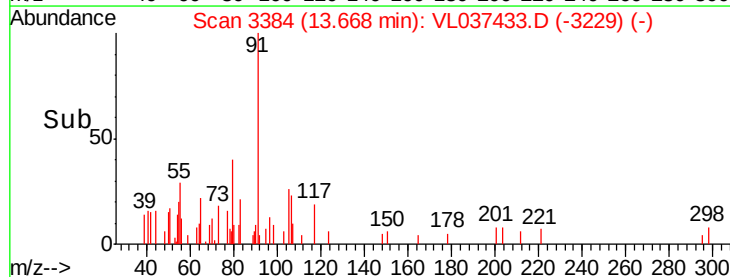
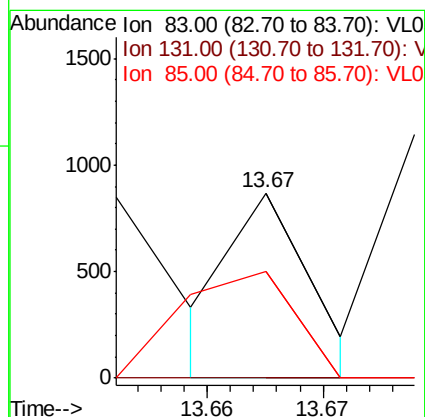
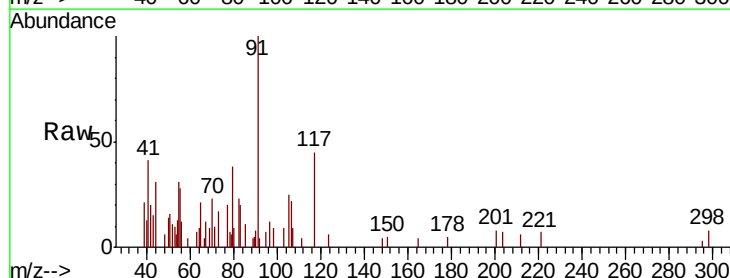
Tgt Ion: 83 Resp: 205

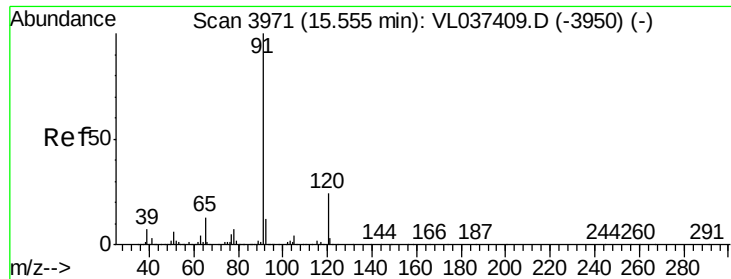
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

85 0.0 33.4 100.2#





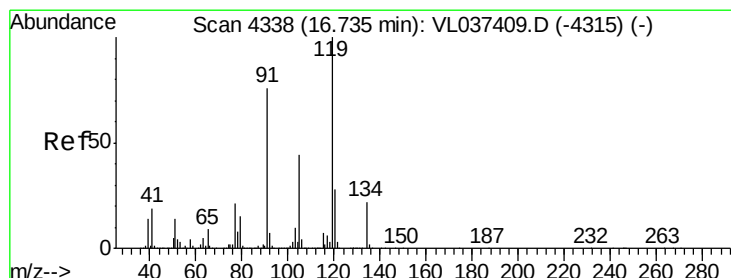
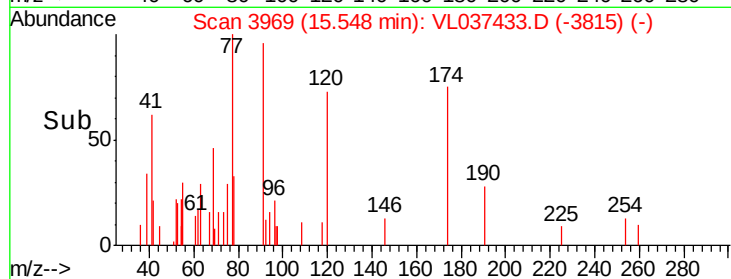
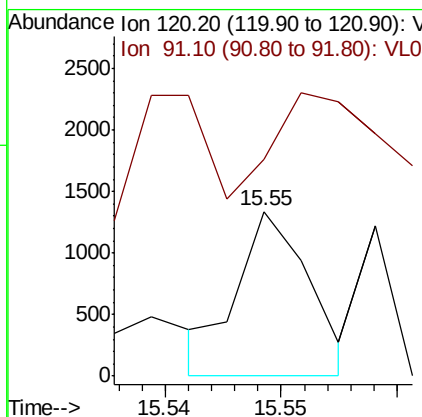
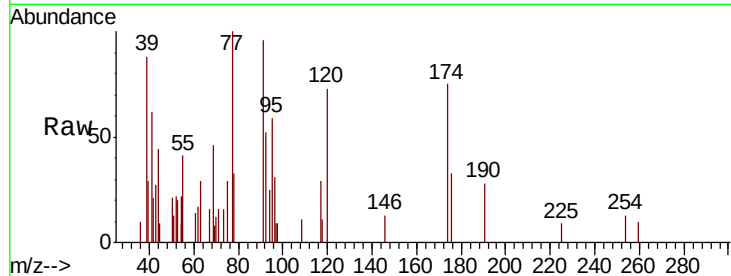
#64
n-propylbenzene
Concen: 0.005 ppbv
RT: 15.55 min Scan# 3969
Delta R.T. -0.01 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampleId :
SVP-3REDL

Tot Ion:120 Resp: 579
Ion Ratio Lower Upper
120 100
91 0.0 388.4 582.6#

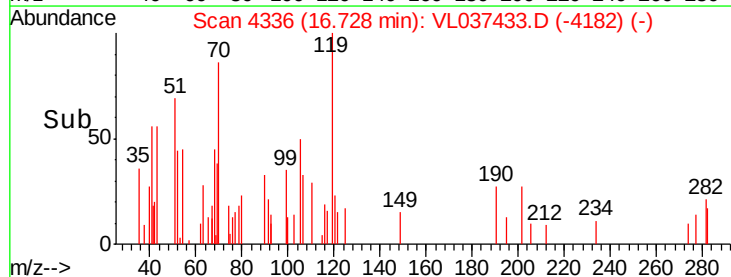
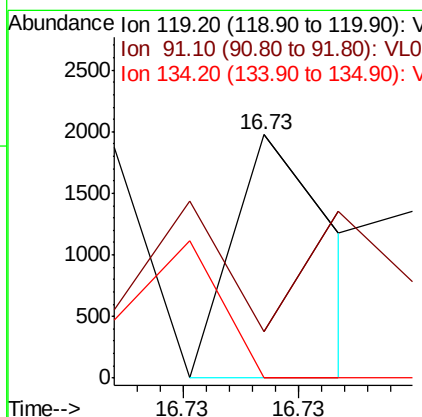
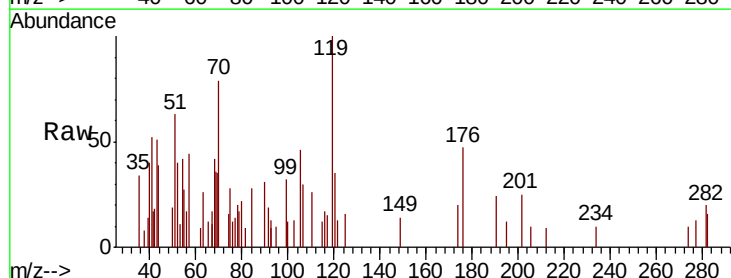
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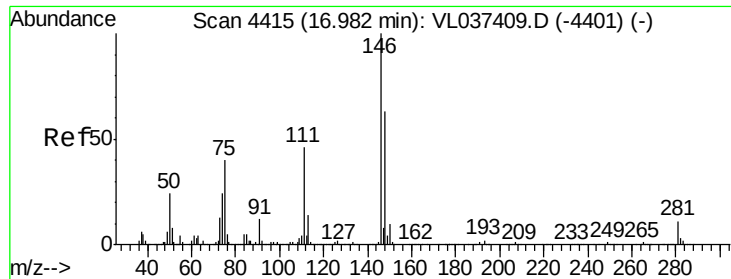
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#65
tert-Butylbenzene
Concen: 0.001 ppbv
RT: 16.73 min Scan# 4336
Delta R.T. -0.01 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tgt Ion:119 Resp: 608
Ion Ratio Lower Upper
119 100
91 0.0 62.2 93.4#
134 0.0 16.1 24.1#





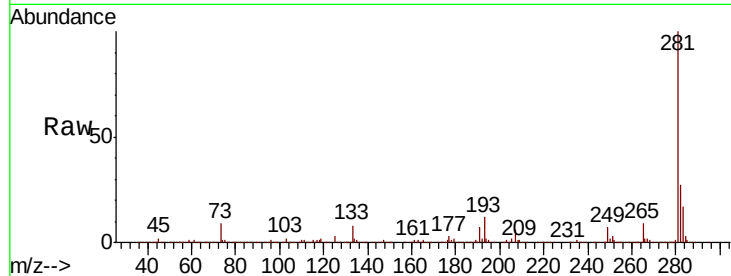
#66
Benzyl Chloride
Concen: 0.017 ppbv
RT: 16.97 min Scan# 4412
Delta R.T. -0.01 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampled :
SVP-3REDL

Tot Ion	Ratio	Resp	Lower	Upper
91	100	361		
126	0.0	14.3	21.5#	
128	0.0	4.6	7.0#	

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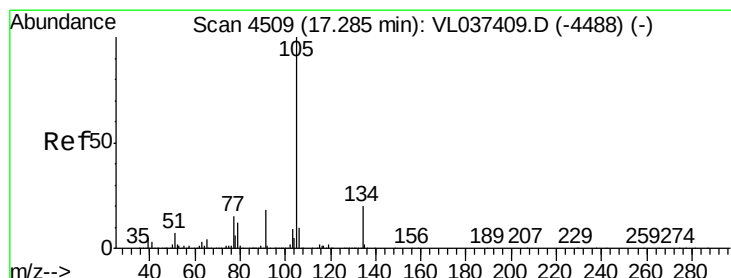
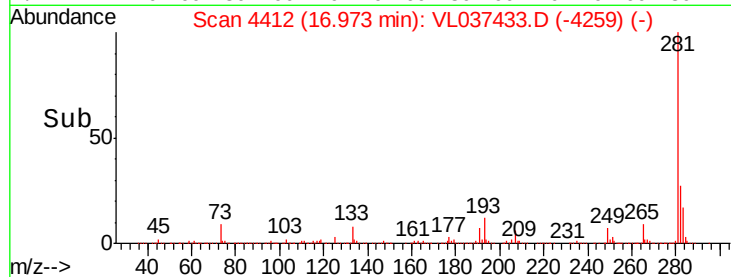
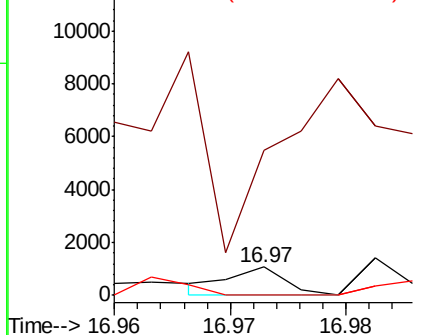
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Abundance Ion 91.10 (90.80 to 91.80): VL037433.D (-4259) (-)

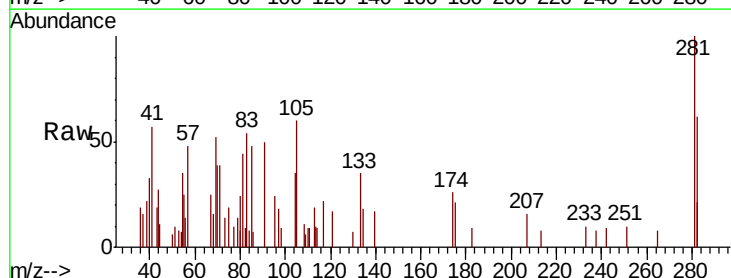
Ion 126.10 (125.80 to 126.80): VL037433.D (-4259) (-)

Ion 128.10 (127.80 to 128.80): VL037433.D (-4259) (-)



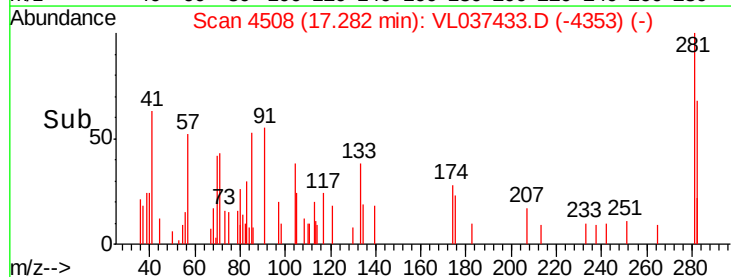
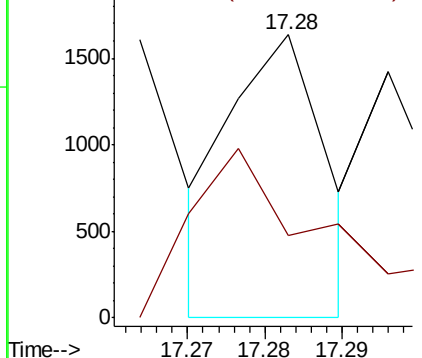
#67
sec-Butylbenzene
Concen: 0.001 ppbv
RT: 17.28 min Scan# 4508
Delta R.T. -0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

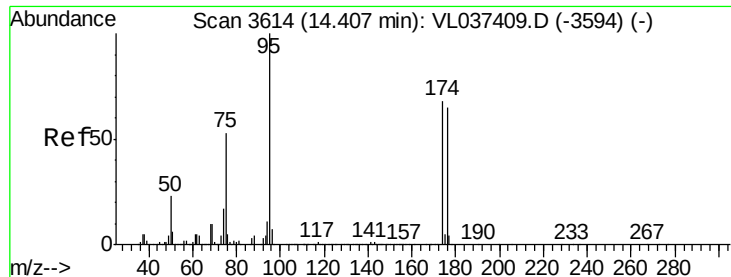
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	701		
134	133.4	15.4	23.0#	



Abundance Ion 105.10 (104.80 to 105.80): VL037433.D (-4353) (-)

Ion 134.20 (133.90 to 134.90): VL037433.D (-4353) (-)





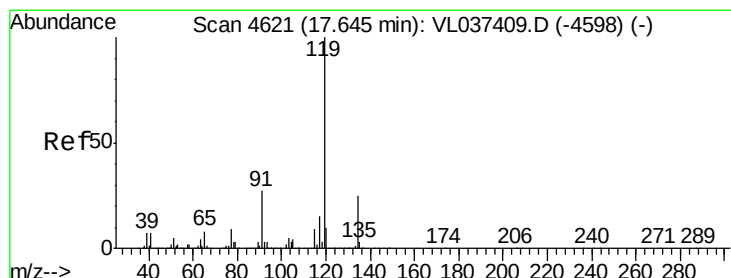
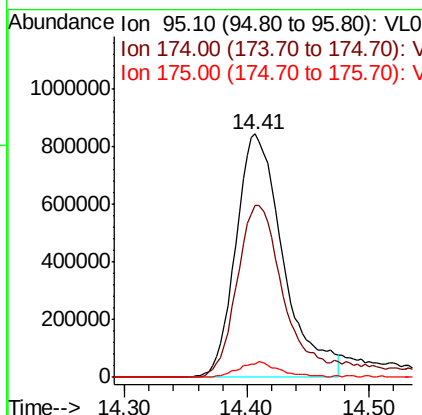
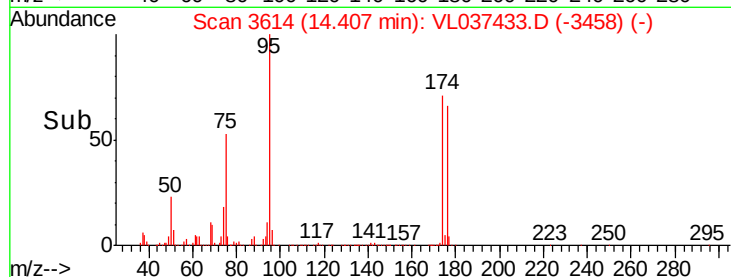
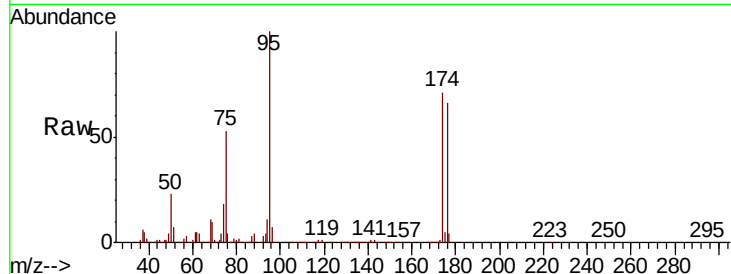
#68
1-Bromo-4-Fluorobenzene
Concen: 9.966 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. 0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampled :
SVP-3REDL

Tot Ion: 95 Resp: 2260931
Ion Ratio Lower Upper
95 100
174 79.3 59.6 89.4
175 6.2 4.3 6.5

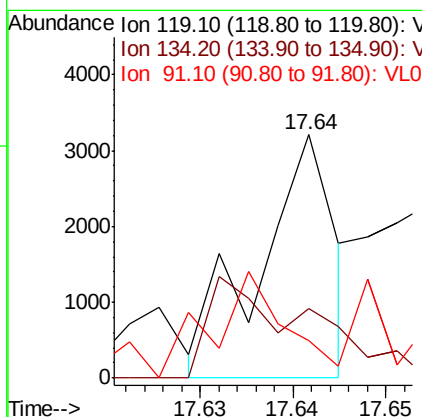
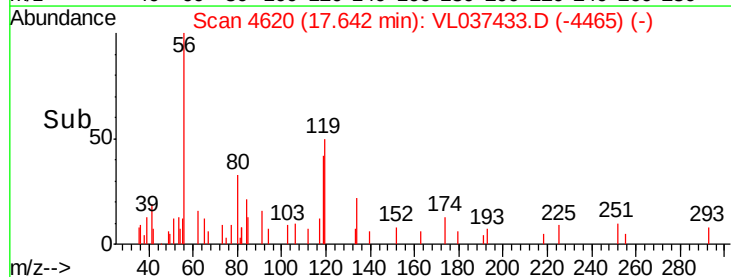
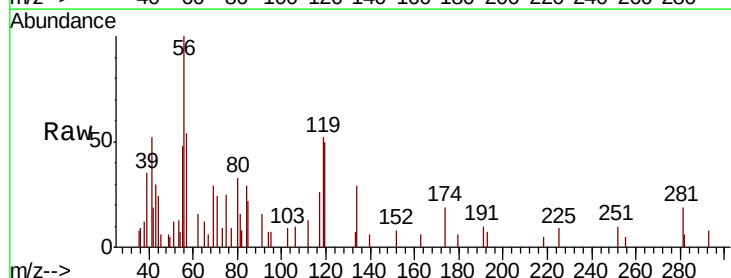
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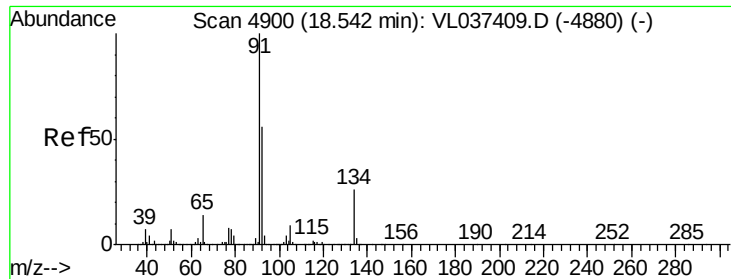
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#69
p-Isopropyltoluene
Concen: 0.004 ppbv
RT: 17.64 min Scan# 4620
Delta R.T. -0.00 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tgt Ion: 119 Resp: 1808
Ion Ratio Lower Upper
119 100
134 84.4 20.6 31.0#
91 90.1 22.4 33.6#





#70

n-Butylbenzene

Concen: 0.001 ppbv

RT: 18.54 min Scan# 4899

Delta R.T. -0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

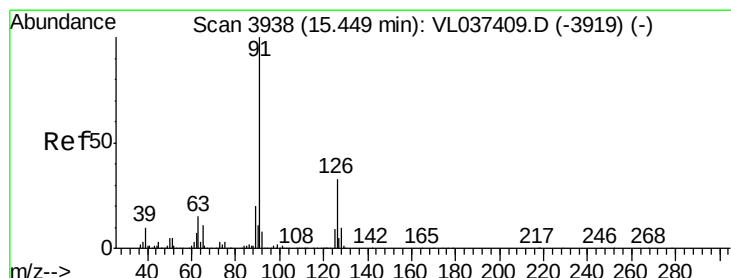
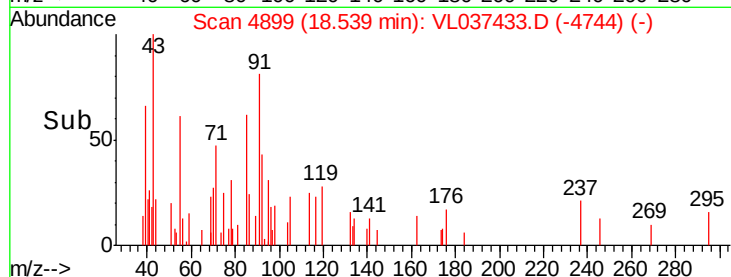
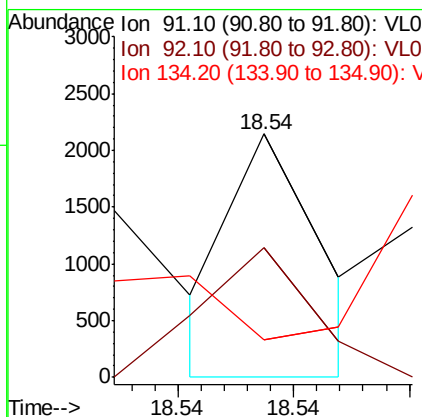
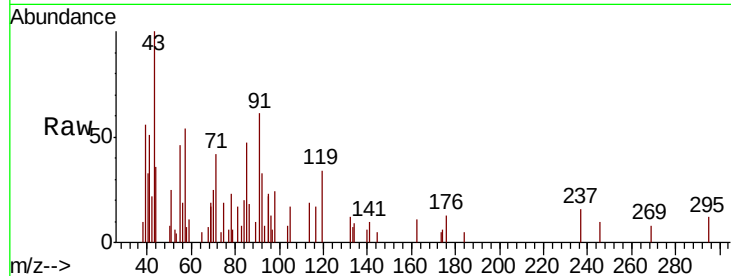
ClientSampled :

SVP-3REDL

Tot Ion:	91	Resp:	583
Ion	Ratio	Lower	Upper
91	100		
92	192.5	44.2	66.2#
134	0.0	19.5	29.3#

Manual Integrations
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#71

2-Chlorotoluene

Concen: 0.001 ppbv

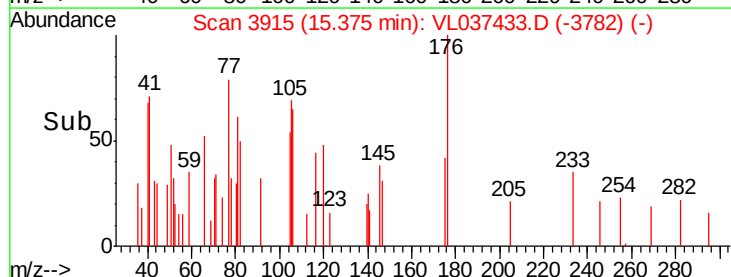
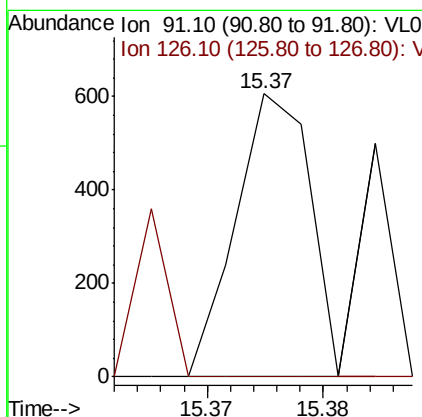
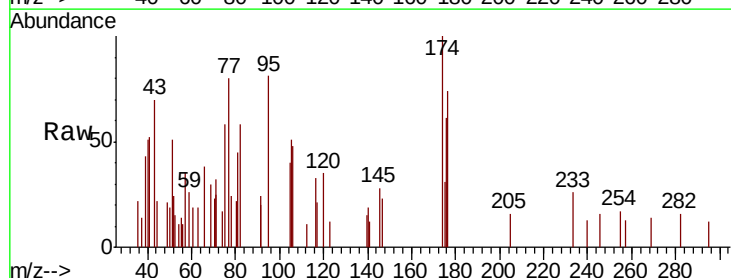
RT: 15.37 min Scan# 3915

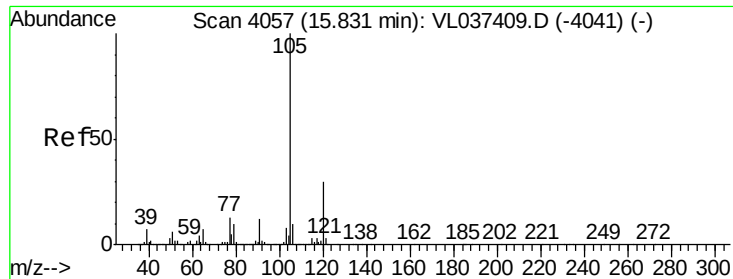
Delta R.T. -0.07 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Tgt Ion:	91	Resp:	267
Ion	Ratio	Lower	Upper
91	100		
126	44.9	13.5	53.9





#72

4-Ethyltoluene

Concen: 0.005 ppbv

RT: 15.82 min Scan# 4054

Delta R.T. -0.01 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

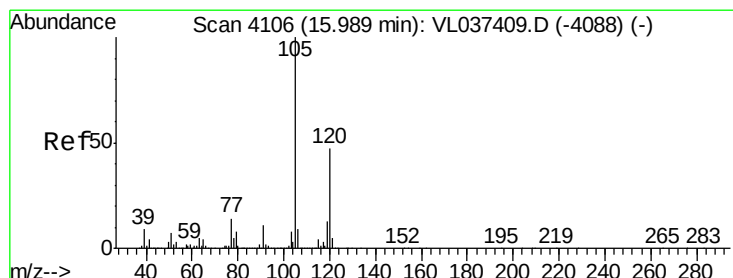
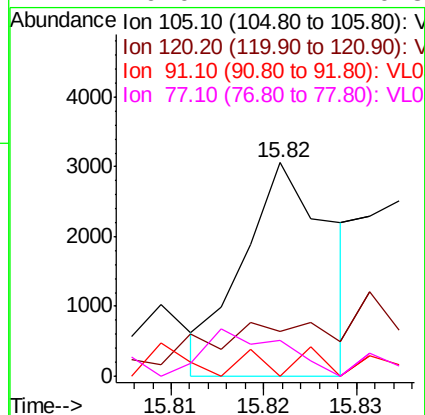
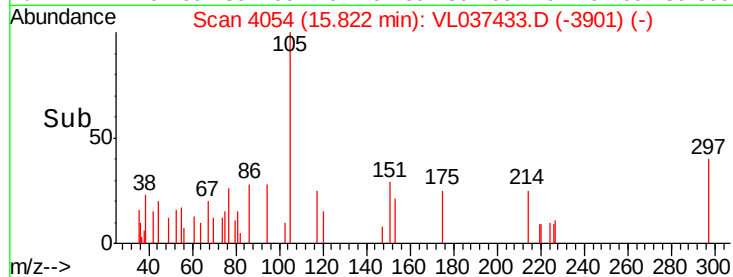
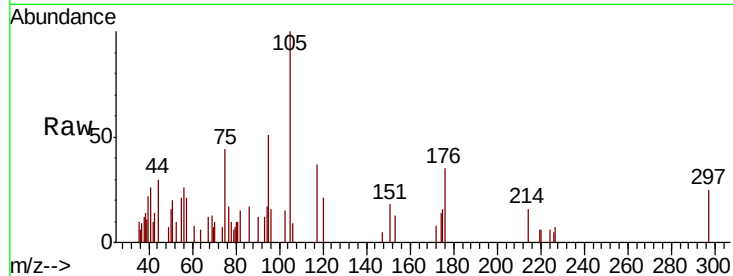
ClientSampleId :

SVP-3REDL

Tot Ion	Ratio	Resp	Lower	Upper
105	100	2008		
120	0.0	25.0	37.4#	
91	0.0	11.2	16.8#	
77	0.0	11.2	16.8#	

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#73

1,3,5-Trimethylbenzene

Concen: 0.008 ppbv

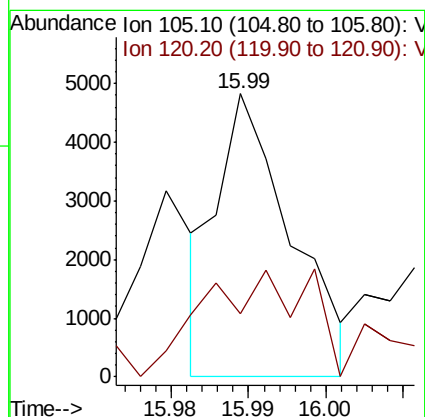
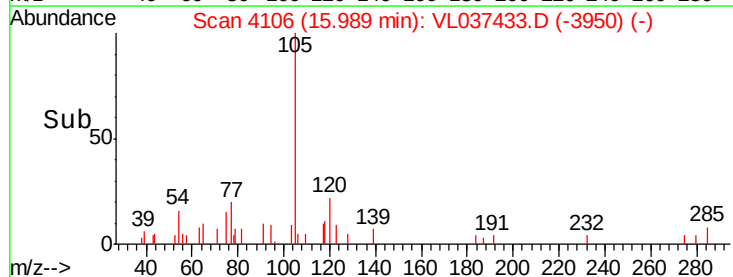
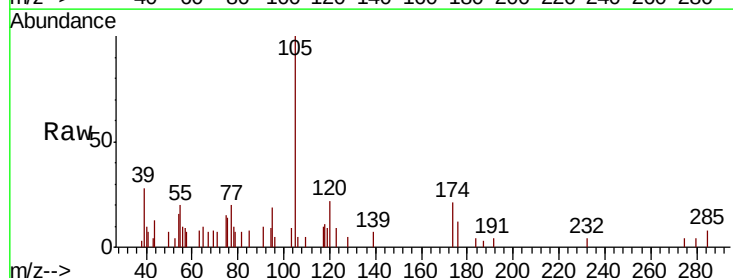
RT: 15.99 min Scan# 4106

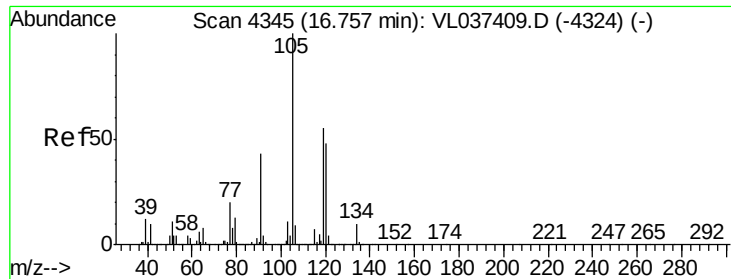
Delta R.T. 0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	3177		
120	27.4	37.4	56.0#	





#74

1,2,4-Trimethylbenzene

Concen: 0.016 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

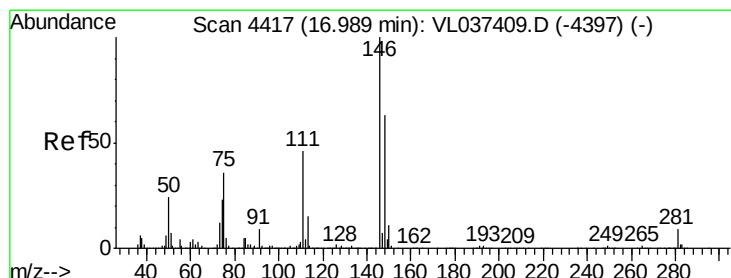
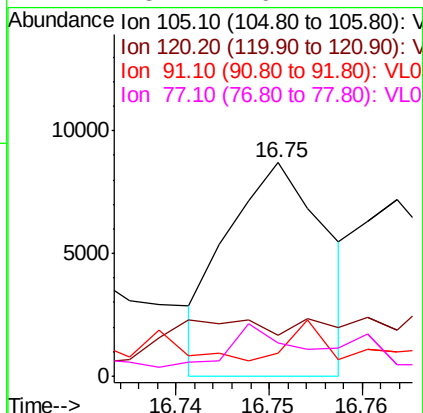
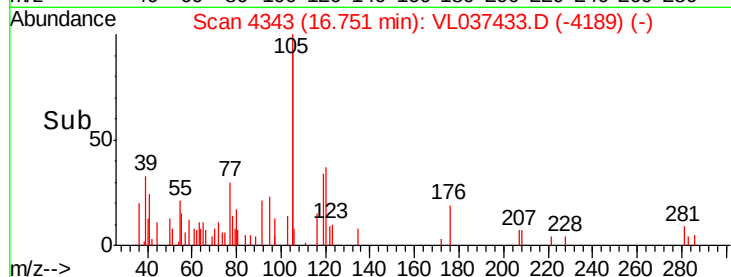
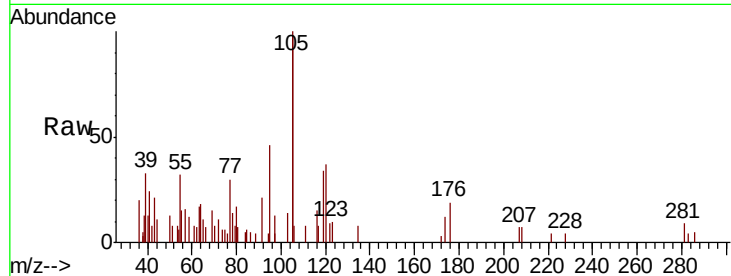
ClientSampleId :

SVP-3REDL

Tot Ion	Ratio	Lower	Upper
105	100		
120	0.0	38.2	57.2#
91	5.0	35.4	53.2#
77	13.4	16.2	24.2#

Manual Integrations
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#75

1,3-Dichlorobenzene

Concen: 0.012 ppbv

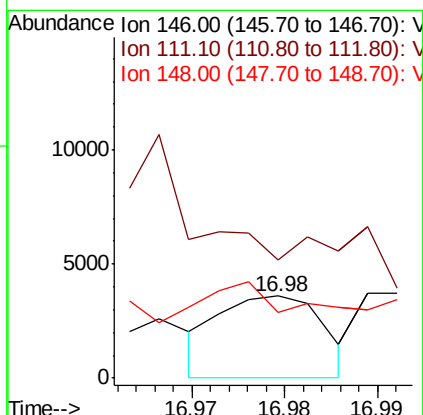
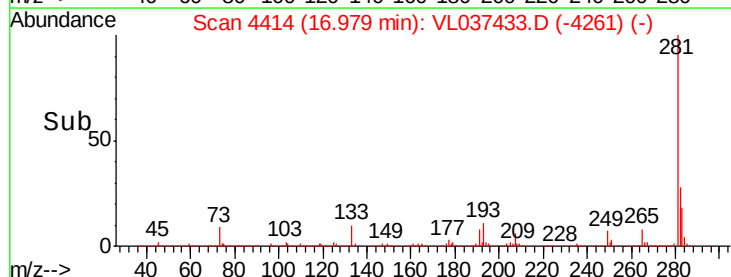
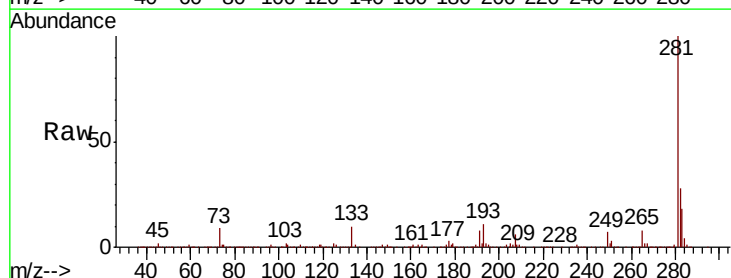
RT: 16.98 min Scan# 4414

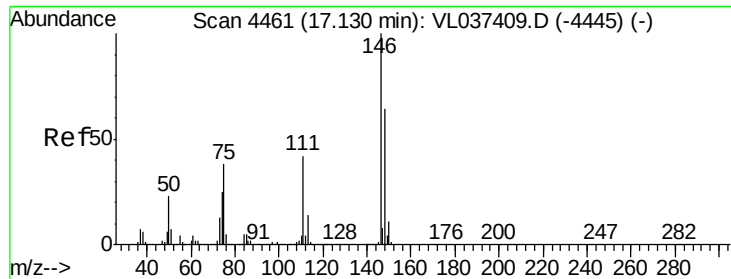
Delta R.T. -0.01 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.9	68.7#
148	433.4	32.0	96.2#





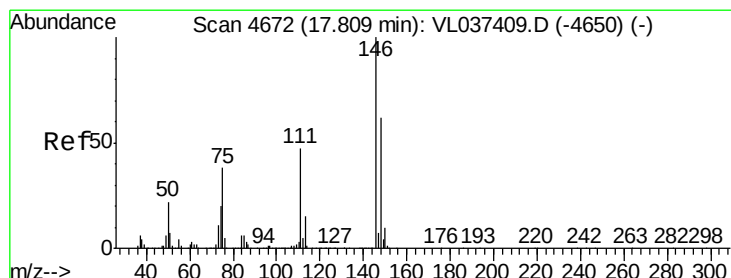
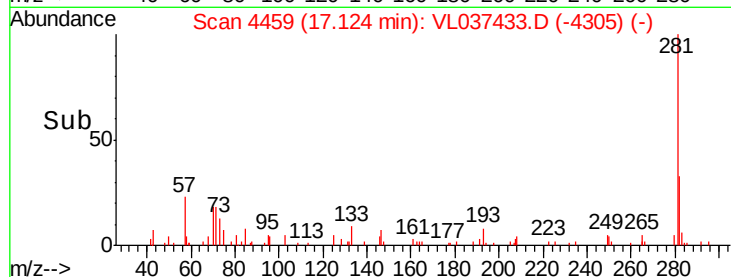
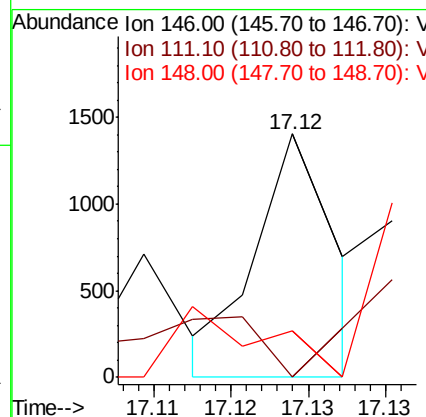
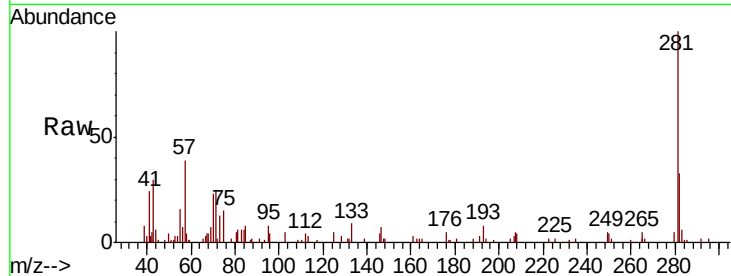
#76
 1,4-Dichlorobenzene
 Concen: 0.002 ppbv
 RT: 17.12 min Scan# 4459
 Delta R.T. -0.01 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3REDL

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.8	68.4#
148	0.0	34.0	102.0#

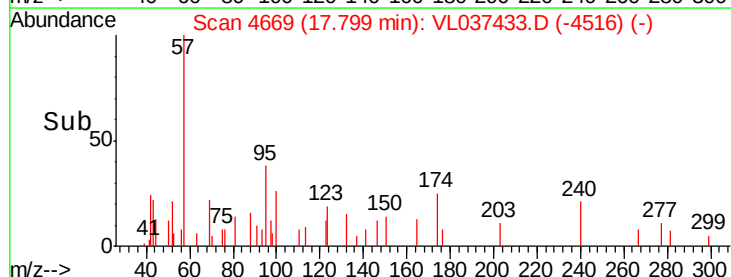
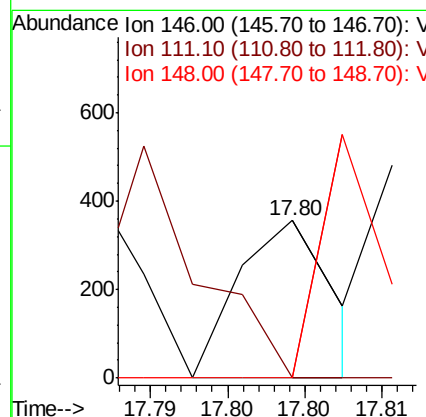
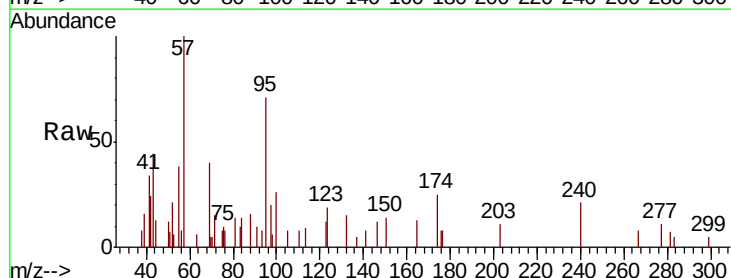
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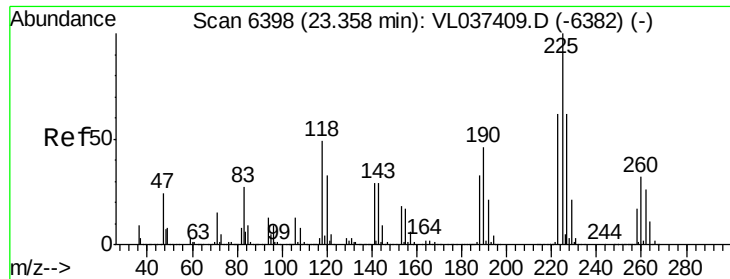
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#77
 1,2-Dichlorobenzene
 Concen: 0.001 ppbv
 RT: 17.80 min Scan# 4669
 Delta R.T. -0.01 min
 Lab File: VL037433.D
 Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.8	71.5#
148	186.6	32.5	97.4#





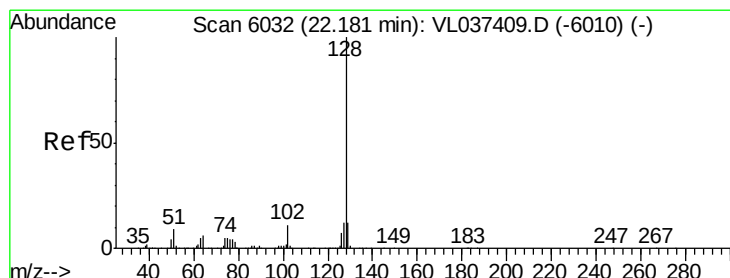
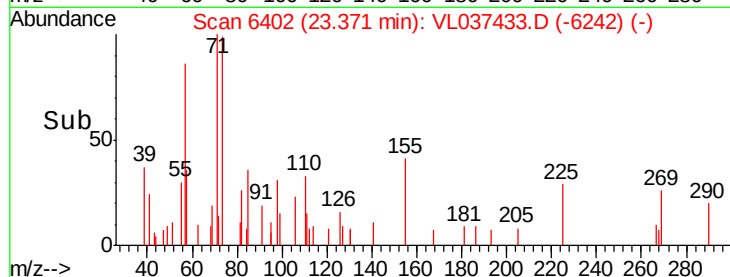
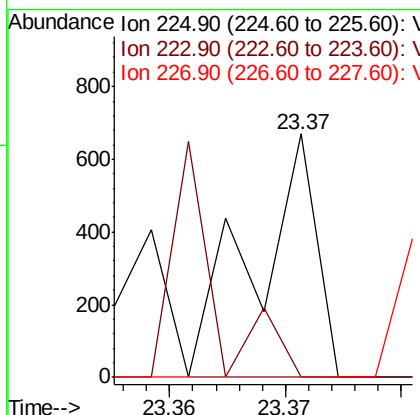
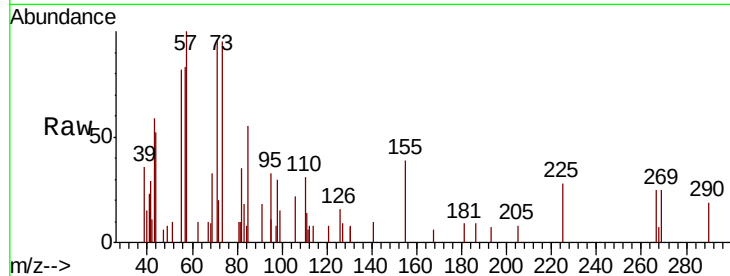
#78
Hexachloro-1,3-Butadiene
Concen: 0.001 ppbv
RT: 23.37 min Scan# 6402
Delta R.T. 0.01 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Instrument :
MSVOA_L
ClientSampled :
SVP-3REDL

Tot Ion	Ratio	Lower	Upper
225	100		
223	45.0	51.2	76.8#
227	0.0	52.2	78.4#

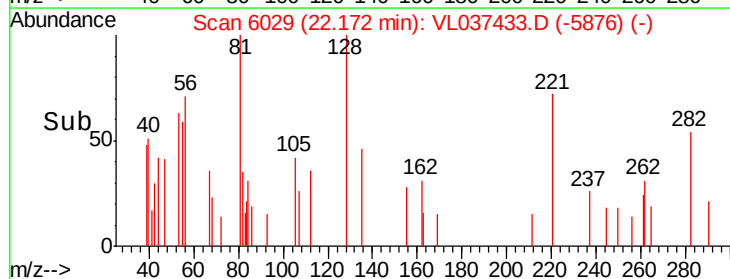
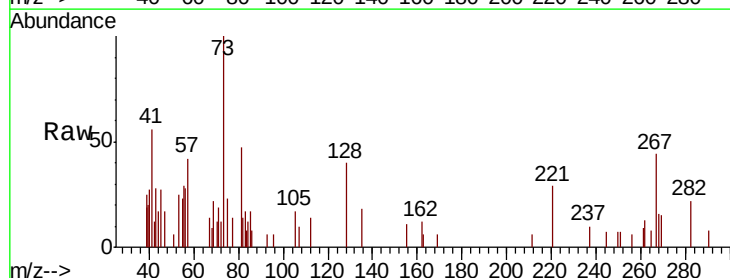
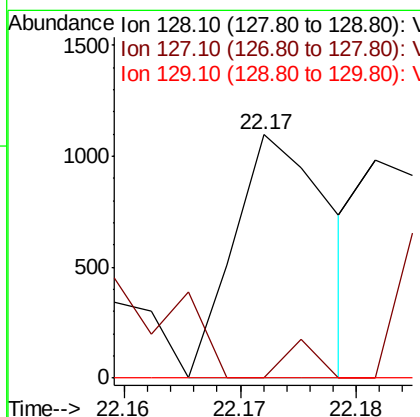
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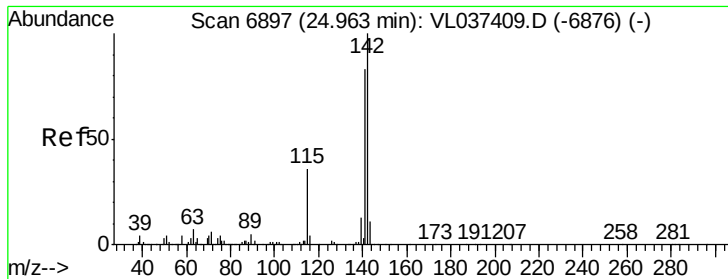
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#79
Naphthalene
Concen: 0.003 ppbv
RT: 22.17 min Scan# 6029
Delta R.T. -0.01 min
Lab File: VL037433.D
Acq: 13 Aug 2021 4:06

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.9	14.9#
129	0.0	9.4	14.0#





#80

Naphthalene, 2-methyl-

Concen: 0.005 ppbv

RT: 24.87 min Scan# 6867

Delta R.T. -0.10 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Instrument :

MSVOA_L

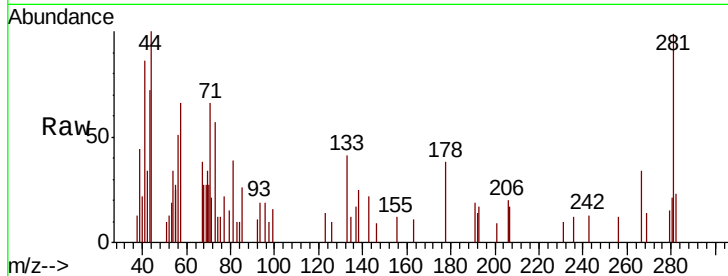
ClientSampleId :

SVP-3REDL

Tot Ion:	142	Resp:	211
Ion Ratio	Lower	Upper	
142	100		
141	0.0	68.7	103.1#
115	77.3	32.7	49.1#

Manual Integrations
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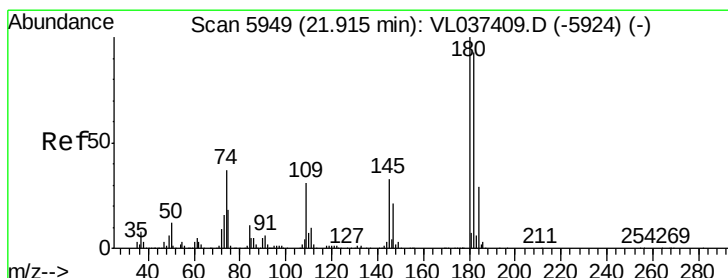
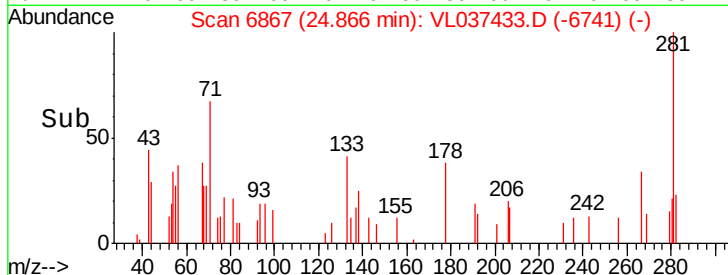
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Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

24.87

Time-->



#81

1,2,4-Trichlorobenzene

Concen: 0.002 ppbv

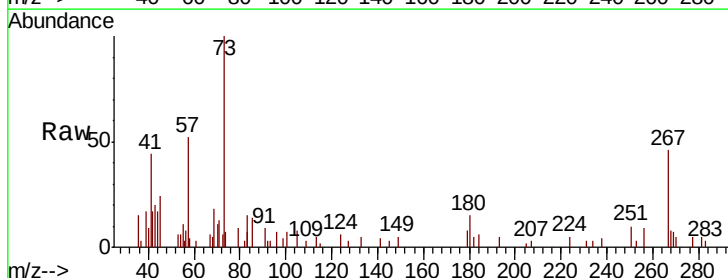
RT: 21.92 min Scan# 5950

Delta R.T. 0.00 min

Lab File: VL037433.D

Acq: 13 Aug 2021 4:06

Tgt Ion:	180	Resp:	309
Ion Ratio	Lower	Upper	
180	100		
182	0.0	78.6	118.0#
184	90.3	24.6	36.8#



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V

21.92

Time-->

