

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037426.D
 Acq On : 12 Aug 2021 23:23
 Operator : SY/AP
 Sample : M3211-06REDL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1REDL

Manual Integrations
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 8/13/2021 11:07:13 AM

Quant Time: Aug 13 05:34:13 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	1269228	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3848257	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3390322	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2544840	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	3356	0.017	ppbv	95
3) Chlorodifluoromethane	3.05	51	1090	0.004	ppbv	99
4) Chloromethane	3.14	50	1866	0.021	ppbv #	88
5) Vinyl Chloride	3.12	62	49	0.000	ppbv #	43
6) Bromomethane	3.48	94	32	0.001	ppbv #	4
7) Chloroethane	3.67	64	91	0.003	ppbv #	40
8) Dichlorotetrafluoroethane	3.19	85	344	0.002	ppbv	88
9) Propene	3.02	41	97477m	1.165	ppbv	
10) Heptane	8.12	43	4271	0.021	ppbv #	1
11) Trichlorofluoromethane	3.95	101	261937	1.248	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	303	0.002	ppbv #	1
13) Ethanol	3.61	45	501005m	56.091	ppbv	
14) Bromoethene	3.80	108	97	0.001	ppbv #	1
15) Acetone	3.85	43	1773285	13.174	ppbv	98
16) 1,3-Butadiene	3.30	39	1867	0.021	ppbv #	16
17) tert-Butyl alcohol	4.29	59	358	0.003	ppbv #	72
18) 1,1-Dichloroethene	4.29	96	157	0.002	ppbv #	11
19) Isopropyl Alcohol	3.98	45	93598m	1.195	ppbv	
20) Methylene Chloride	4.35	84	94818	1.332	ppbv	98
21) Allyl Chloride	4.40	41	462	0.004	ppbv #	1
22) trans-1,2-Dichloroethene	4.89	96	251	0.004	ppbv #	1
24) 1,1-Dichloroethane	5.01	63	41	0.000	ppbv #	89
26) Hexane	5.68	57	72321	0.437	ppbv #	53
27) Carbon Disulfide	4.54	76	420	0.003	ppbv #	14
28) Methyl tert-Butyl Ether	5.11	73	81	0.000	ppbv #	52
29) Chloroform	5.75	83	33339m	0.143	ppbv	
30) Cyclohexane	7.13	84	1244	0.009	ppbv #	1
31) cis-1,2-Dichloroethene	5.67	61	454	0.003	ppbv #	26
32) 1,1,1-Trichloroethane	6.43	97	79	0.000	ppbv #	1
34) 2-Butanone	5.25	43	113306m	0.713	ppbv	
35) Carbon Tetrachloride	7.02	117	421	0.002	ppbv #	20
37) 1,2-Dichloroethane	6.29	62	235	0.001	ppbv #	80
38) Trichloroethene	7.83	130	178	0.001	ppbv #	2
40) 1,4-Dioxane	7.83	88	465	0.015	ppbv #	100
41) Tetrahydrofuran	6.06	42	1382	0.019	ppbv #	40
42) Bromodichloromethane	7.79	83	1065	0.005	ppbv #	26
43) Methyl Methacrylate	8.01	69	807	0.007	ppbv #	1
45) t-1,3-Dichloropropene	9.38	75	95	0.001	ppbv #	1
46) cis-1,3-Dichloropropene	8.75	75	114	0.001	ppbv #	27
47) 1,1,2-Trichloroethane	9.48	97	151	0.001	ppbv #	14
48) Dibromochloromethane	10.09	129	170	0.001	ppbv	60

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Manual Integrations
 APPROVED

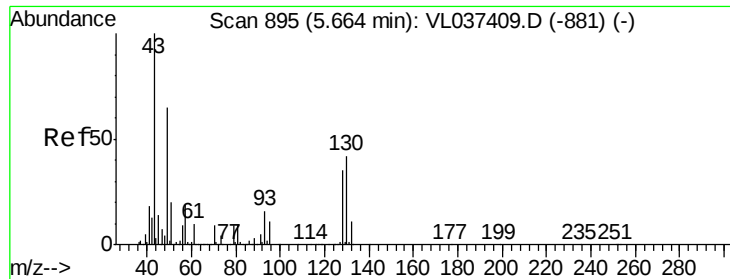
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 8/13/2021 11:07:13 AM

Quant Time: Aug 13 05:34:13 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
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 Response via : Initial Calibration

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

49) Bromoform	12.95	173	81	0.001	ppbv #	1
50) 4-Methyl-2-Pentanone	8.74	43	113	0.001	ppbv #	38
51) 2-Hexanone	10.13	43	768	0.008	ppbv #	28
52) Tetrachloroethene	11.22	164	263	0.002	ppbv #	32
53) Toluene	9.80	91	458693m	1.238	ppbv	
54) 1,2-Dibromoethane	10.62	107	67	0.000	ppbv #	1
56) 1,1,1,2-Tetrachloroethane	12.14	131	68	0.001	ppbv #	6
57) Chlorobenzene	12.14	112	96	0.000	ppbv #	1
58) Ethyl Benzene	12.70	91	6119	0.013	ppbv	92
59) m/p-Xylene	12.96	91	131318m	0.325	ppbv	
60) o-Xylene	13.69	91	7583	0.020	ppbv #	1
61) Styrene	13.52	104	1971	0.010	ppbv #	1
62) Isopropylbenzene	14.67	105	2061	0.004	ppbv #	48
63) 1,1,2,2-Tetrachloroethane	13.67	83	274	0.001	ppbv #	24
64) n-propylbenzene	15.84	120	760	0.006	ppbv	96
65) tert-Butylbenzene	16.73	119	765	0.002	ppbv #	20
66) Benzyl Chloride	16.98	91	235	0.011	ppbv #	65
67) sec-Butylbenzene	17.28	105	239	0.000	ppbv #	58
69) p-Isopropyltoluene	17.65	119	2354	0.004	ppbv #	3
70) n-Butylbenzene	18.54	91	508	0.001	ppbv #	32
71) 2-Chlorotoluene	15.78	91	806	0.002	ppbv	65
72) 4-Ethyltoluene	15.83	105	1723	0.004	ppbv #	1
73) 1,3,5-Trimethylbenzene	15.98	105	7109	0.017	ppbv #	76
74) 1,2,4-Trimethylbenzene	16.75	105	41905m	0.099	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	348969	1.364	ppbv	97
77) 1,2-Dichlorobenzene	17.81	146	1000	0.004	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.36	225	75	0.000	ppbv #	18
79) Naphthalene	22.19	128	1524	0.007	ppbv #	39
80) Naphthalene, 2-methyl-	24.92	142	160	0.003	ppbv #	11
81) 1,2,4-Trichlorobenzene	21.93	180	391	0.003	ppbv	95

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



#1

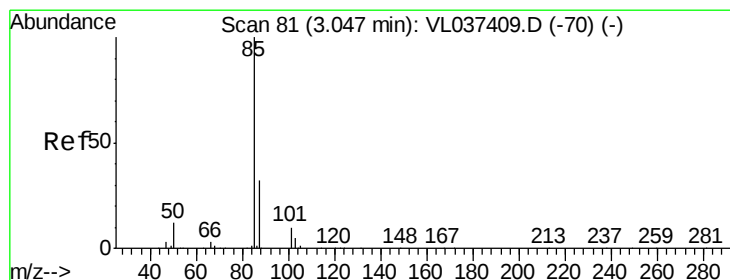
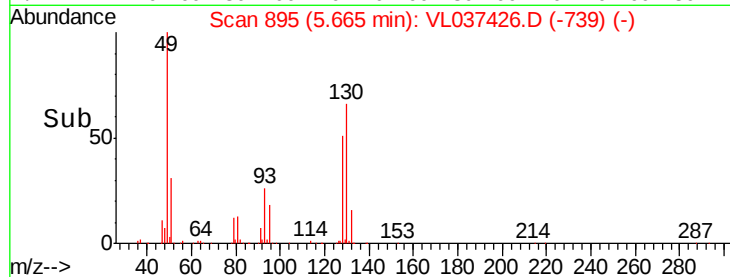
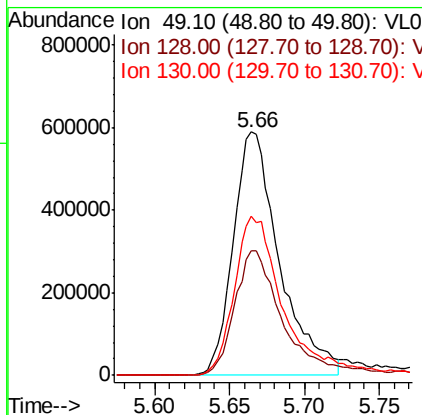
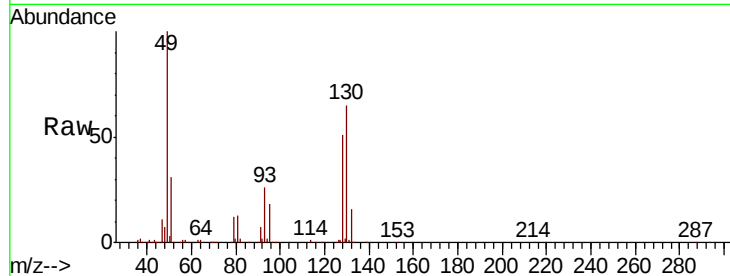
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1REDL

Tot Ion	Ratio	Lower	Upper
49	100		
128	55.2	27.9	83.6
130	72.1	34.6	103.8

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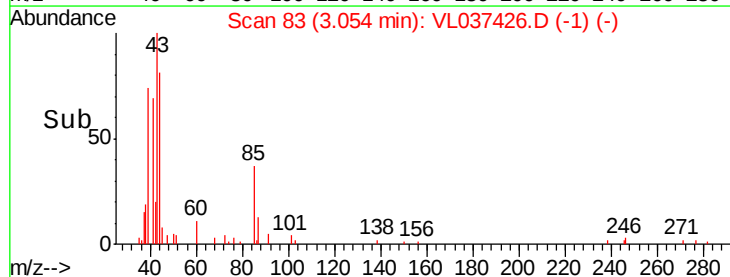
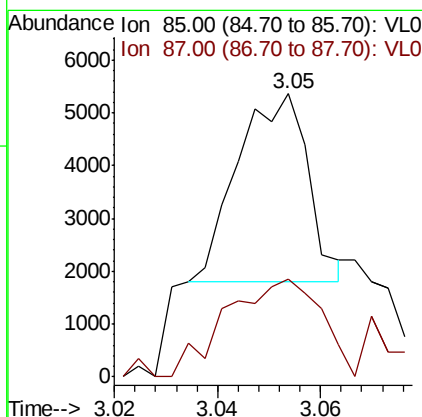
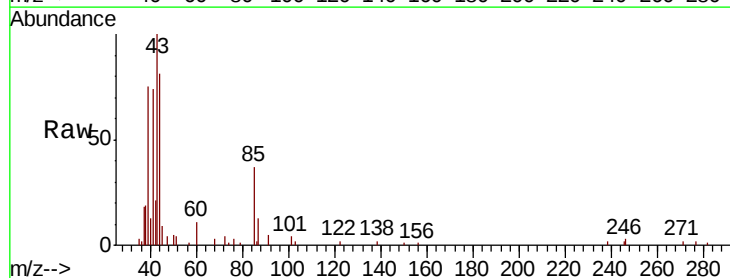
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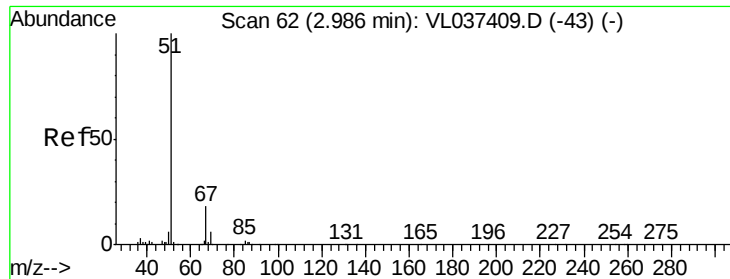


#2

Dichlorodifluoromethane
 Concen: 0.017 ppbv
 RT: 3.05 min Scan# 83
 Delta R.T. 0.01 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.6	25.7	38.5





#3

Chlorodifluoromethane

Concen: 0.004 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.06 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

ClientSampleId :

IA-1REDL

Tot Ion: 51 Resp: 1090

Ion Ratio Lower Upper

51 100

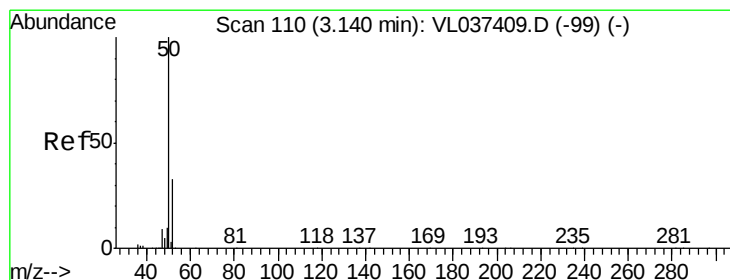
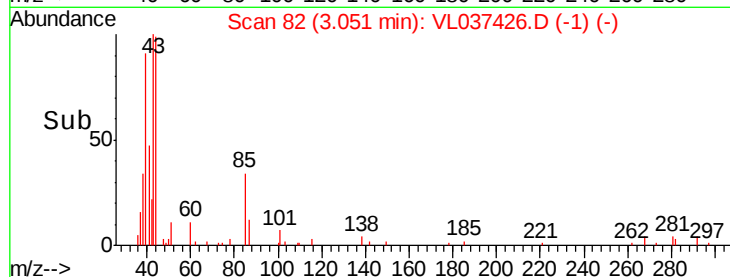
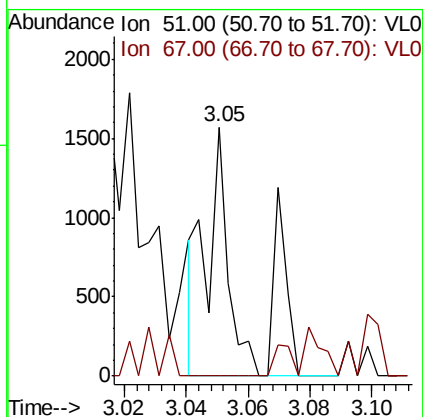
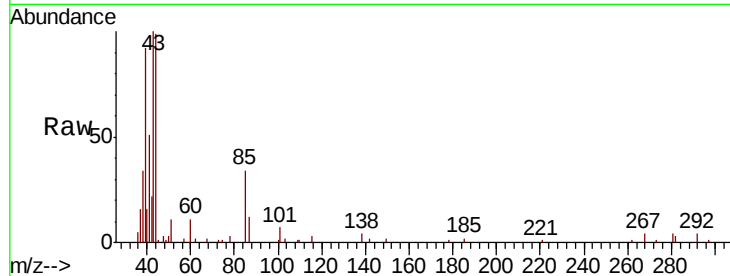
67 18.2 14.7 22.1

Manual Integrations

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#4

Chloromethane

Concen: 0.021 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037426.D

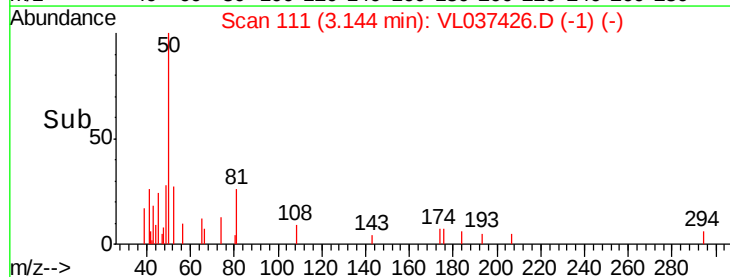
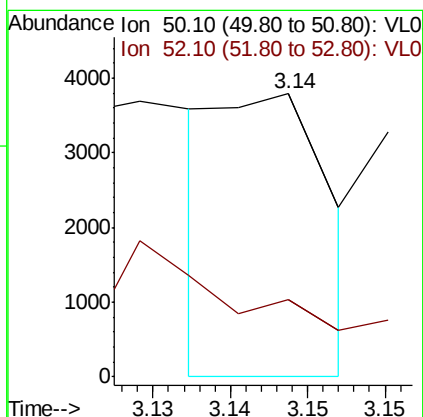
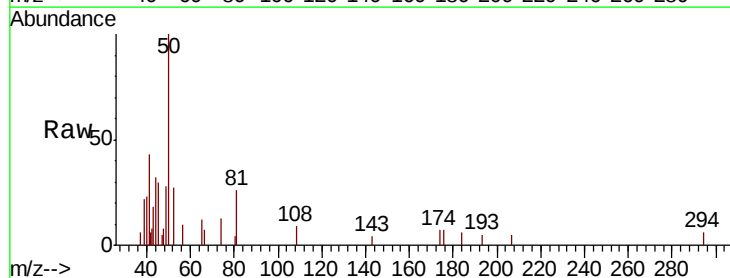
Acq: 12 Aug 2021 23:23

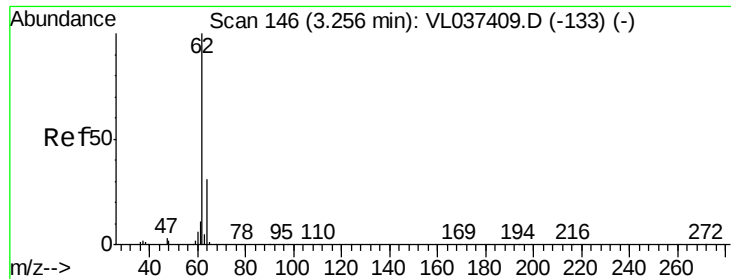
Tgt Ion: 50 Resp: 1866

Ion Ratio Lower Upper

50 100

52 26.2 26.2 39.4#





#5

Vinyl Chloride

Concen: 0.000 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.13 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

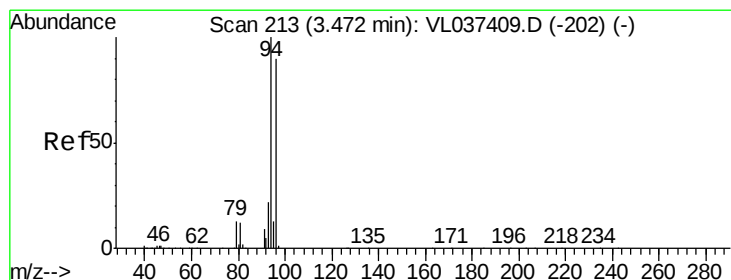
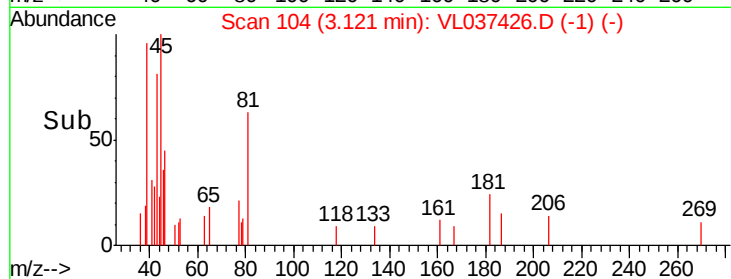
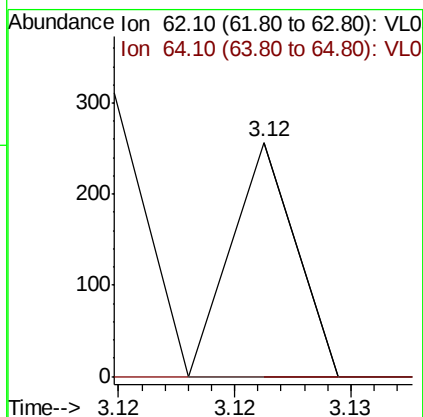
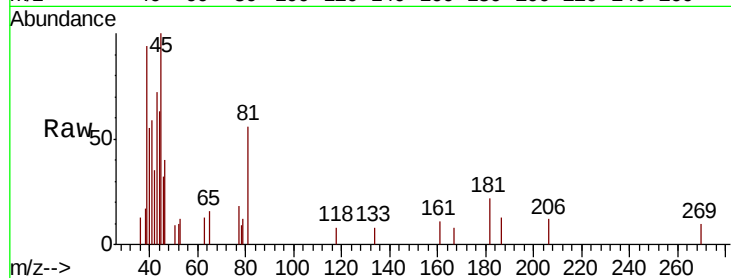
ClientSampleId :

IA-1REDL

Tot Ion	Ratio	Lower	Upper
62	100		
64	0.0	25.0	37.6#

Manual Integrations
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#6

Bromomethane

Concen: 0.001 ppbv

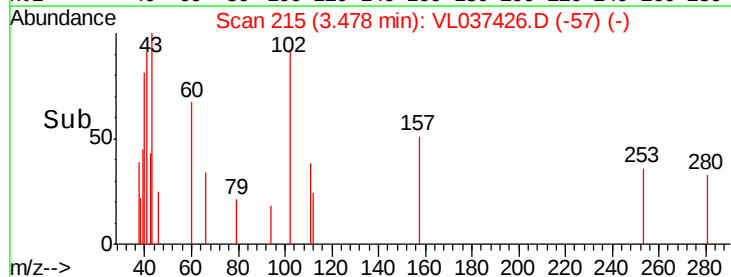
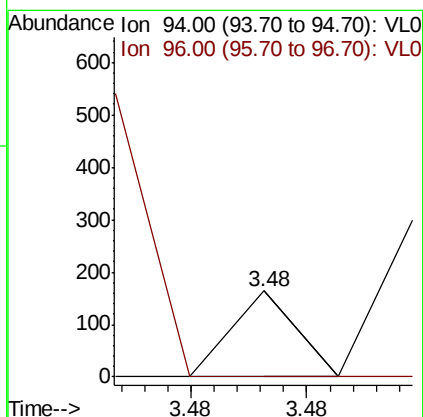
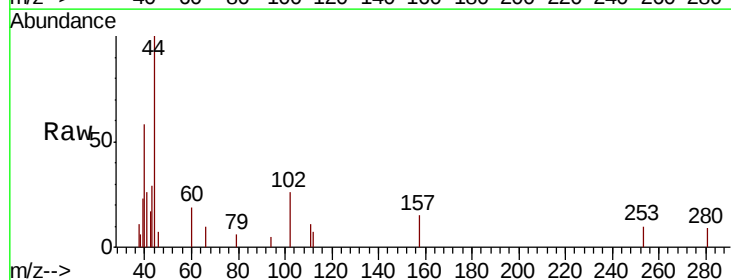
RT: 3.48 min Scan# 215

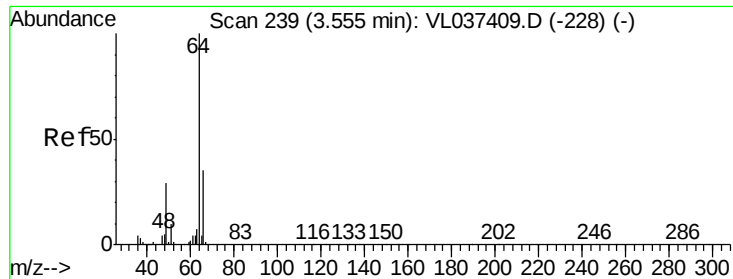
Delta R.T. 0.01 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
94	100		
96	0.0	72.2	108.4#





#7

Chloroethane

Concen: 0.003 ppbv

RT: 3.67 min Scan# 275

Delta R.T. 0.12 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

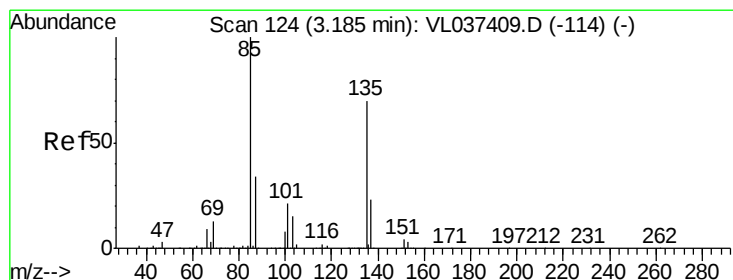
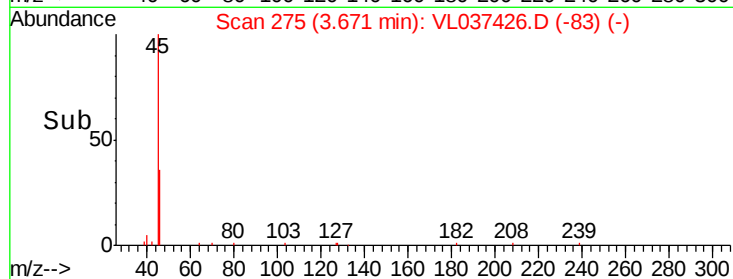
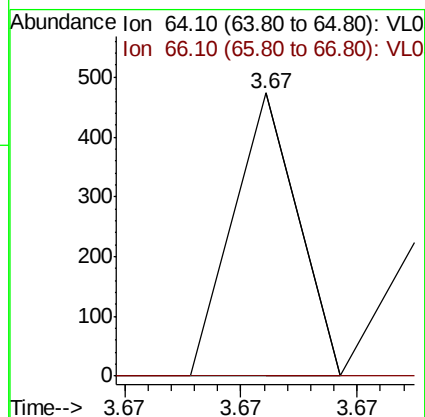
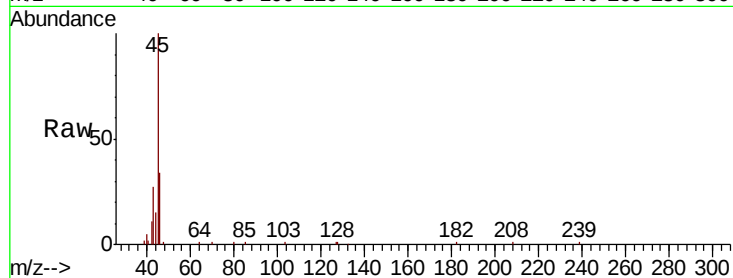
ClientSampled :

IA-1REDL

Tot Ion	Ratio	Lower	Upper
64	100		
66	0.0	27.8	41.8#

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 0.002 ppbv

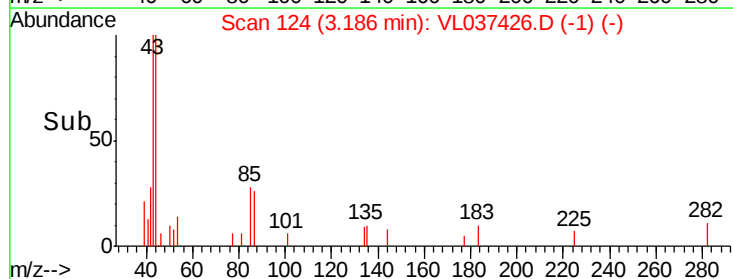
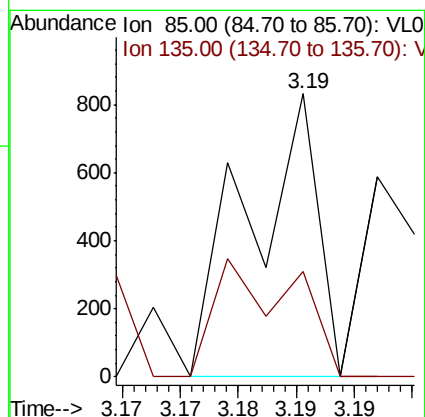
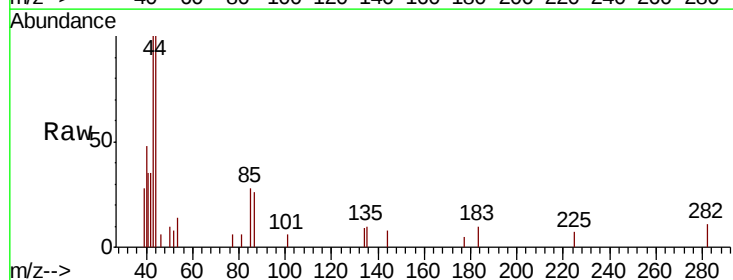
RT: 3.19 min Scan# 124

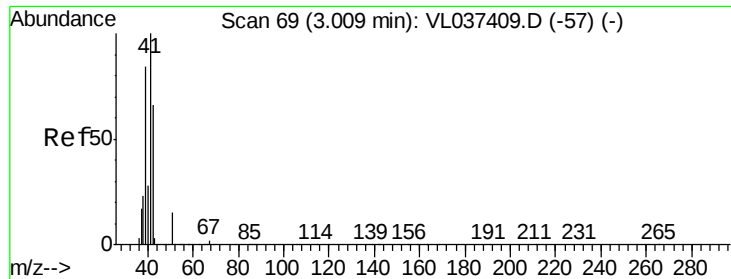
Delta R.T. 0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
85	100		
135	83.1	58.6	88.0





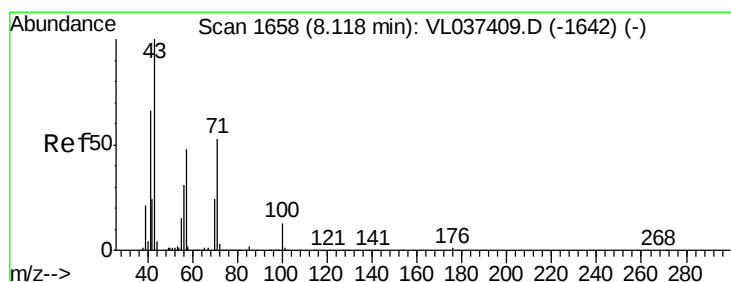
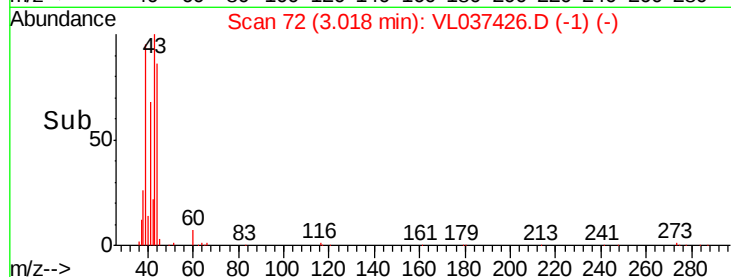
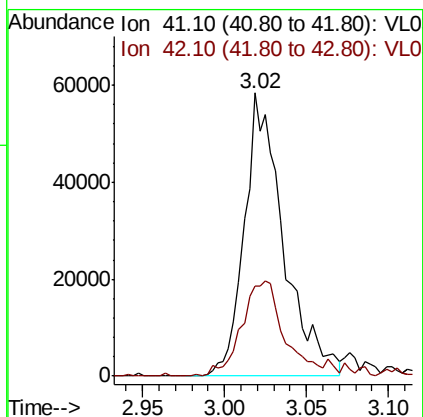
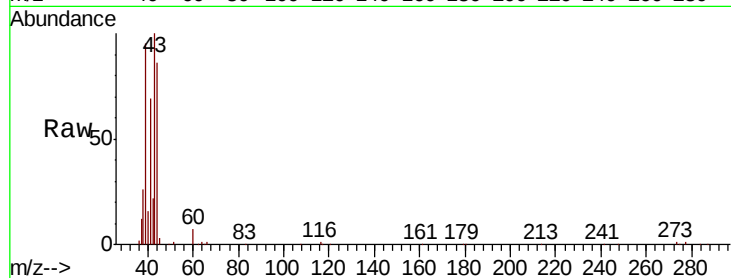
#9
 Propene
 Concen: 1.165 ppbv m
 RT: 3.02 min Scan# 72
 Delta R.T. 0.01 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1REDL

Tot Ion: 41 Resp: 97477
 Ion Ratio Lower Upper
 41 100
 42 39.3 53.8 80.8#

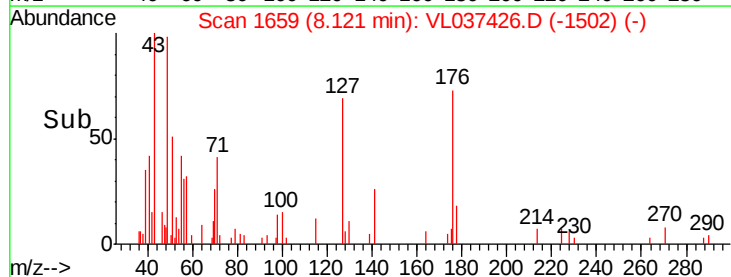
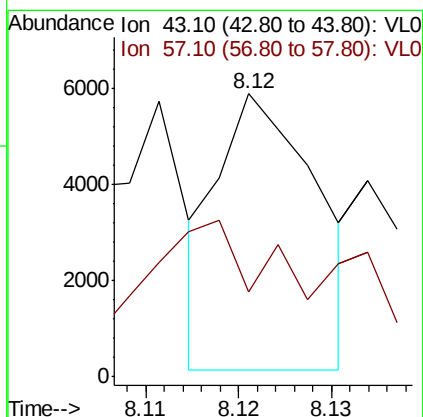
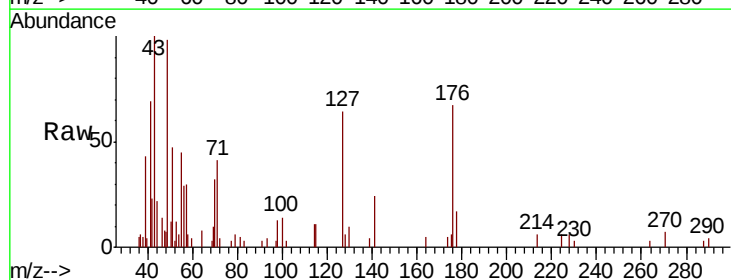
Manual Integrations
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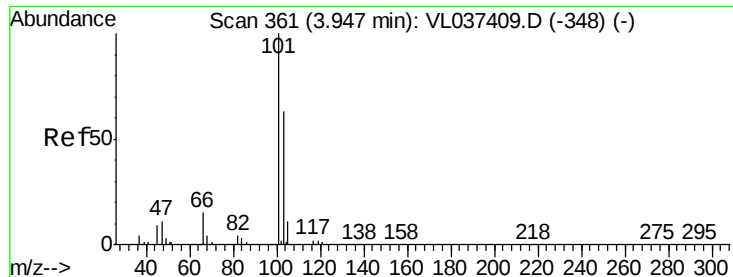
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#10
 Heptane
 Concen: 0.021 ppbv
 RT: 8.12 min Scan# 1659
 Delta R.T. 0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Tgt Ion: 43 Resp: 4271
 Ion Ratio Lower Upper
 43 100
 57 154.5 40.3 60.5#





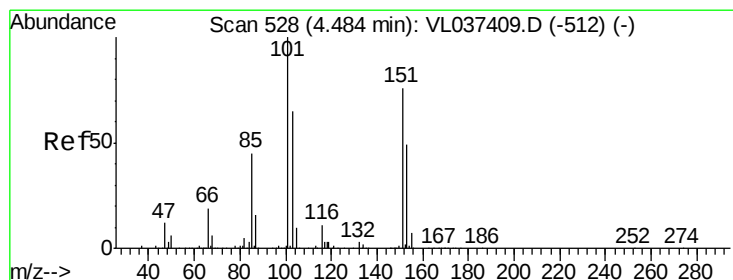
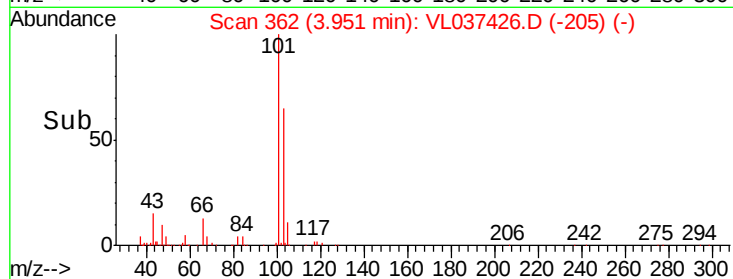
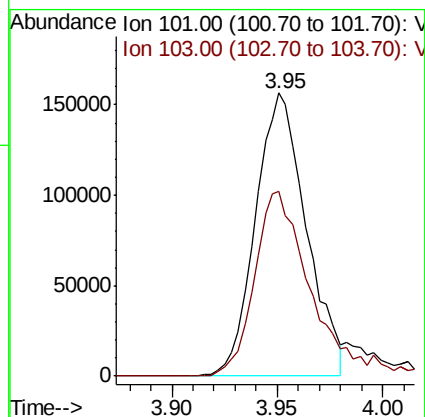
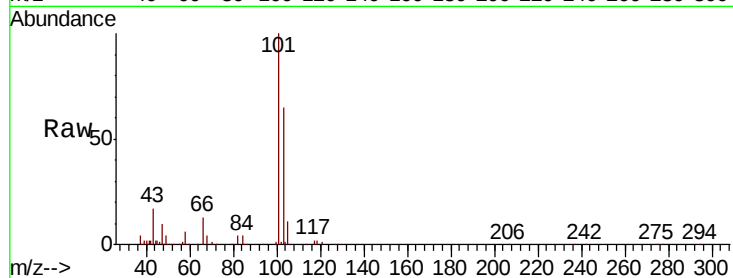
#11
 Trichlorofluoromethane
 Concen: 1.248 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1REDL

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.4	50.2	75.4

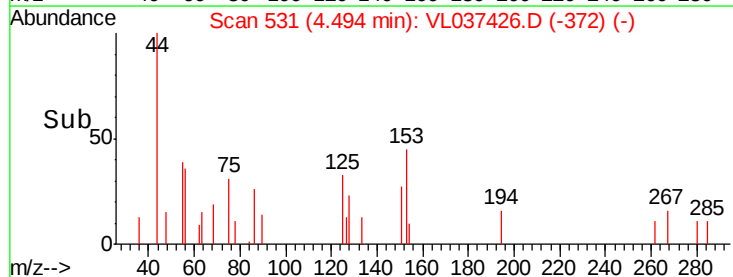
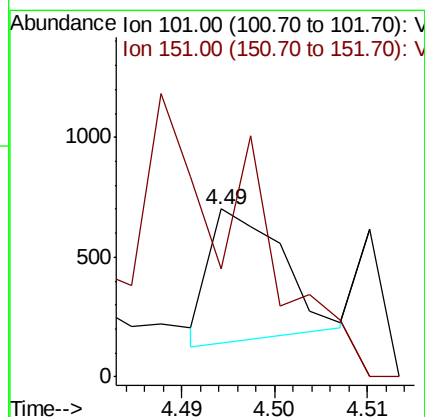
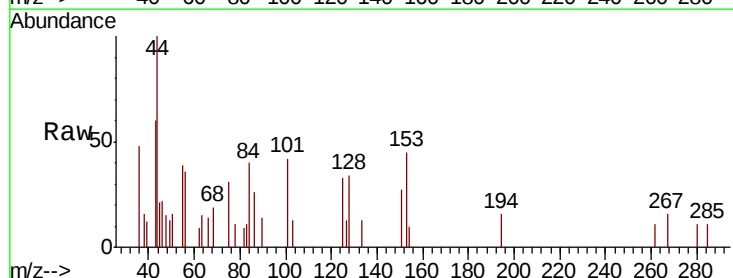
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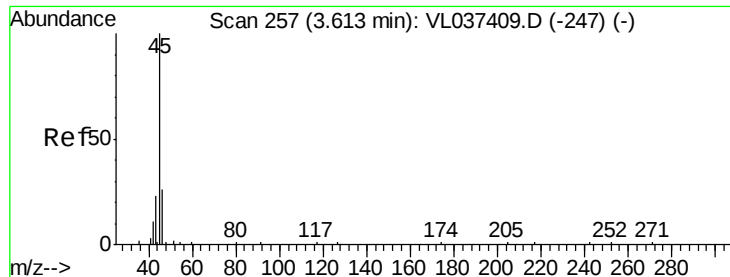
apatel
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.002 ppbv
 RT: 4.49 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
101	100		
151	444.9	61.2	91.8#





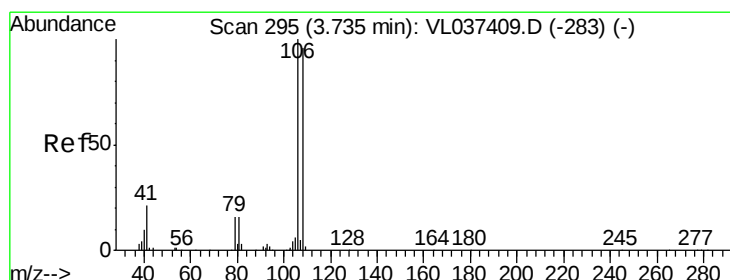
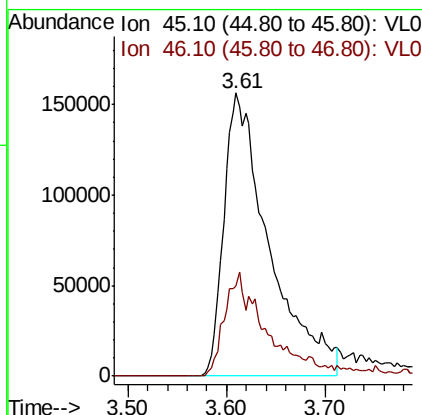
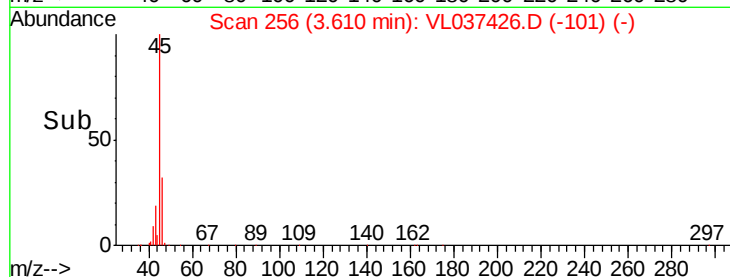
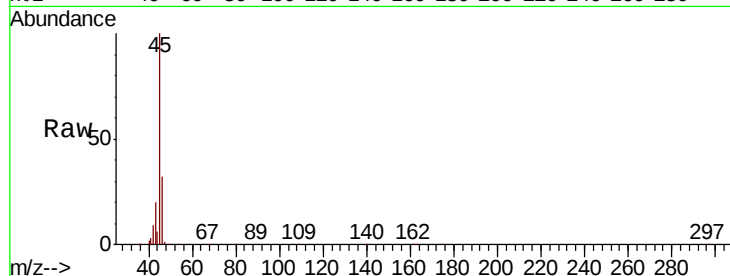
#13
Ethanol
Concen: 56.091 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. -0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampled :
IA-1REDL

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.7	18.0	72.2

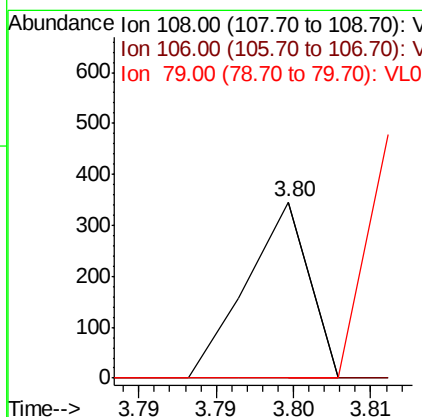
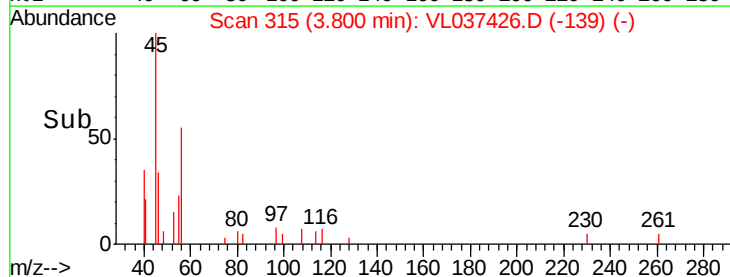
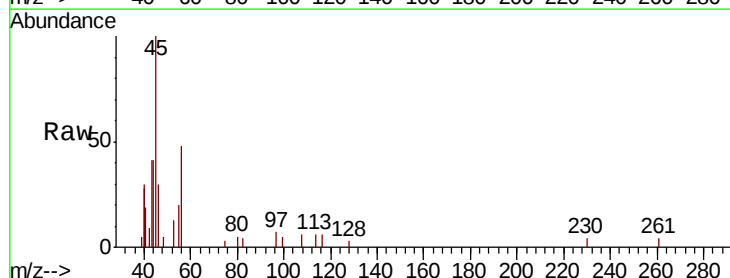
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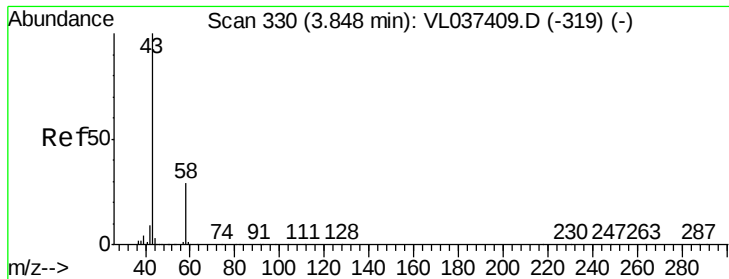
apatel
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#14
Bromoethene
Concen: 0.001 ppbv
RT: 3.80 min Scan# 315
Delta R.T. 0.06 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
108	100		
106	0.0	87.5	131.3#
79	157.7	13.5	20.3#





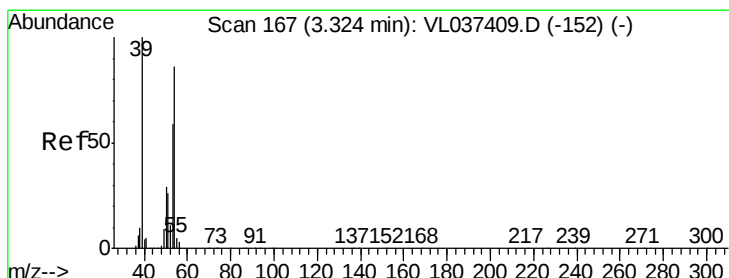
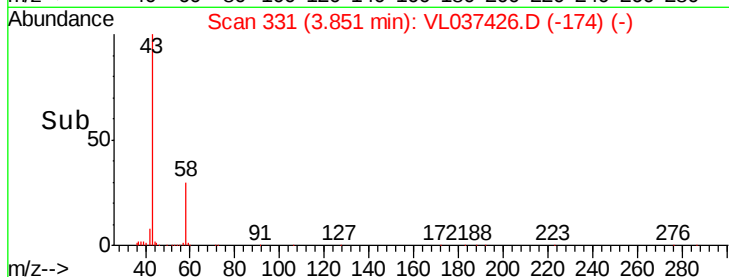
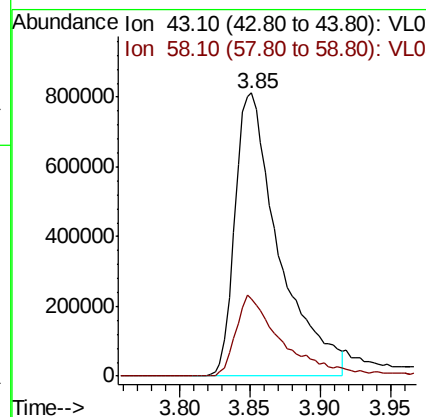
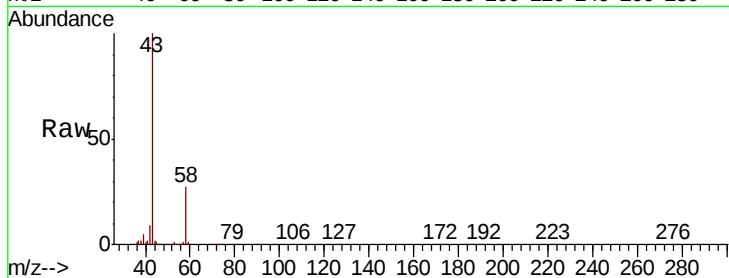
#15
Acetone
Concen: 13.174 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampleId :
IA-1REDL

Tot Ion: 43 Resp: 1773285
Ion Ratio Lower Upper
43 100
58 31.5 24.4 36.6

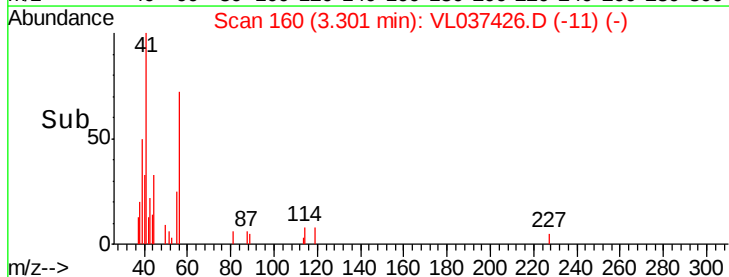
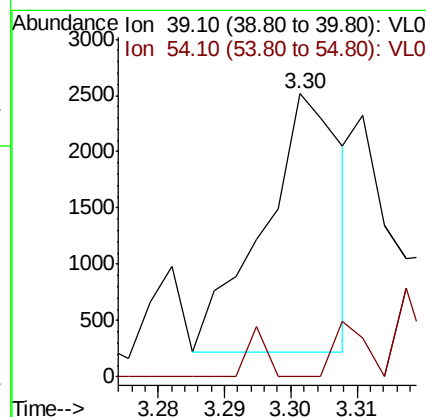
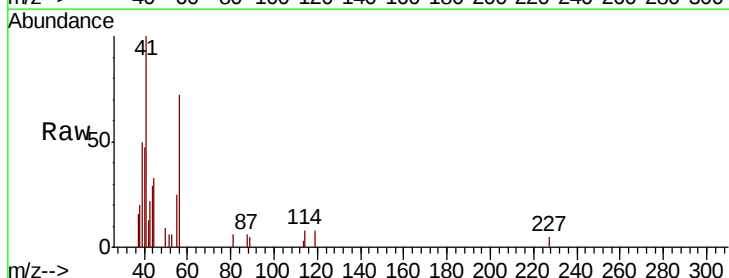
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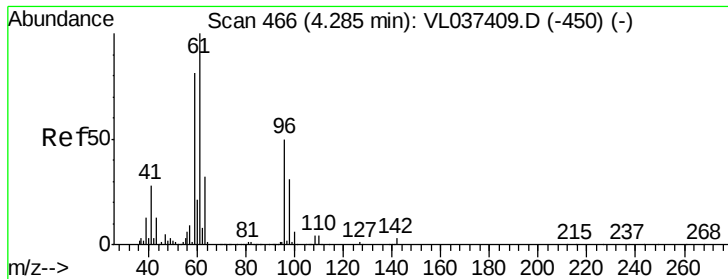
apatel
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#16
1,3-Butadiene
Concen: 0.021 ppbv
RT: 3.30 min Scan# 160
Delta R.T. -0.02 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Tgt Ion: 39 Resp: 1867
Ion Ratio Lower Upper
39 100
54 4.6 61.4 92.0#





#17

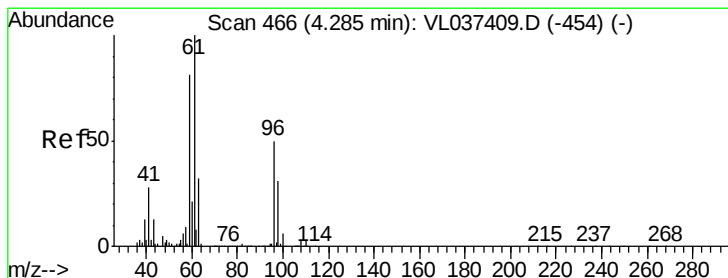
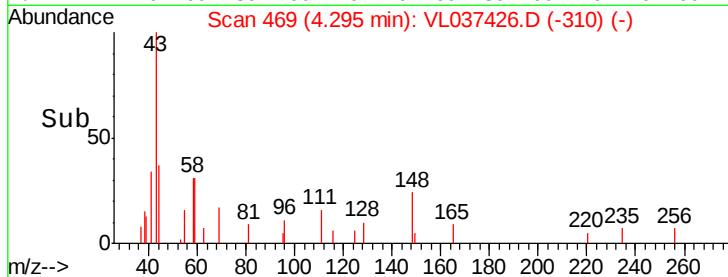
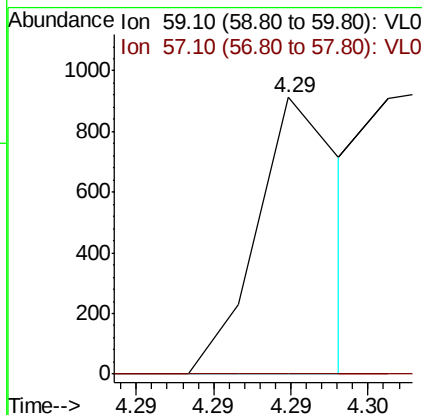
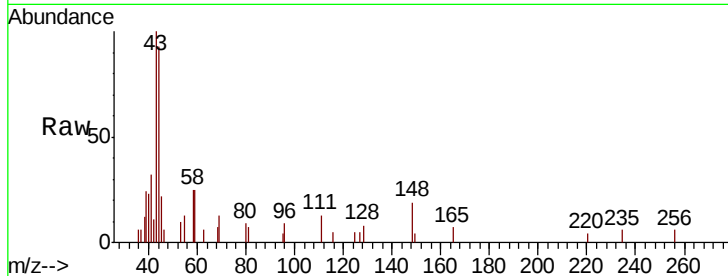
tert-Butyl alcohol
 Concen: 0.003 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.01 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1REDL

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

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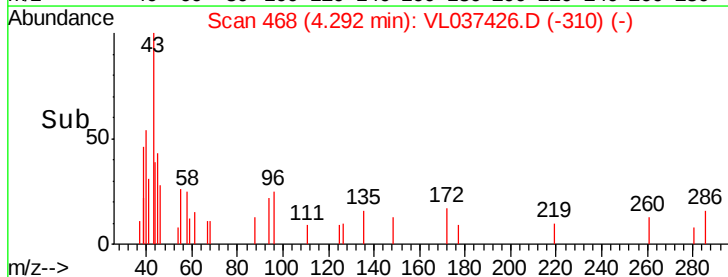
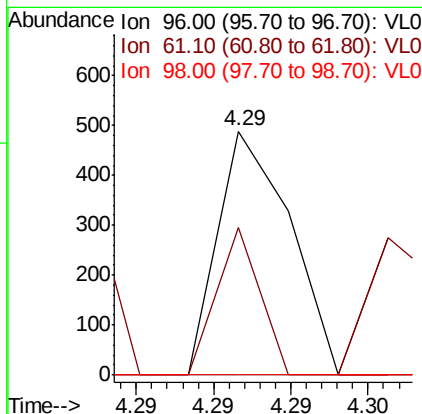
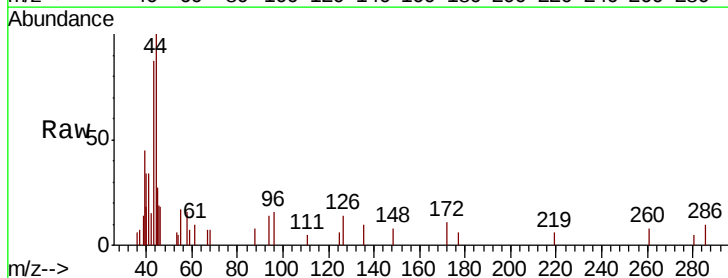
apatel
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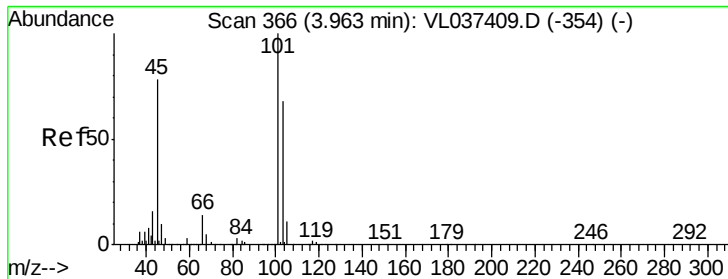


#18

1,1-Dichloroethene
 Concen: 0.002 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. 0.01 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	60.7	159.0	238.4#
98	0.0	49.4	74.2#





#19

Isopropyl Alcohol

Concen: 1.195 ppbv m

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

ClientSampleId :

IA-1REDL

Tot Ion: 45 Resp: 93598

Ion Ratio Lower Upper

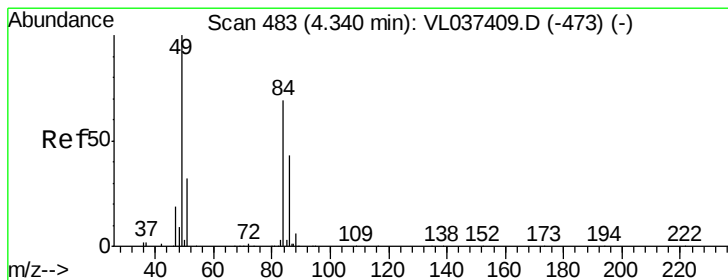
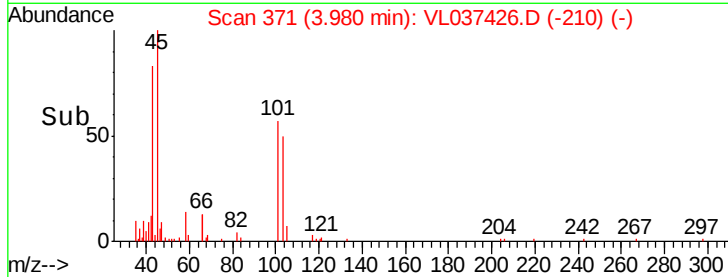
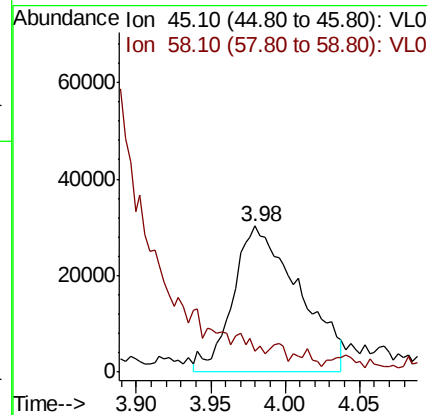
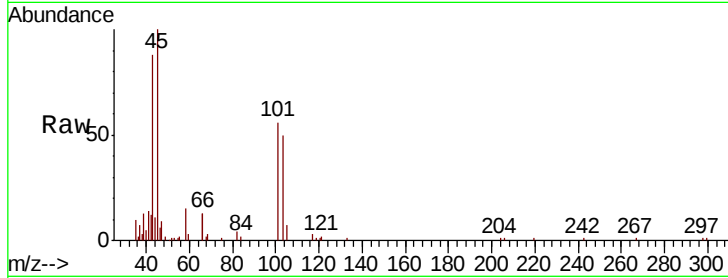
45 100

58 0.0 2.2 3.4#

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#20

Methylene Chloride

Concen: 1.332 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Tgt Ion: 84 Resp: 94818

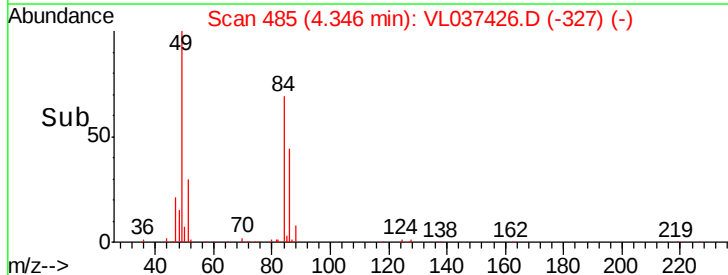
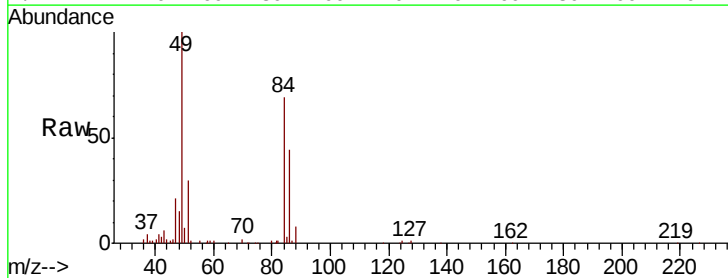
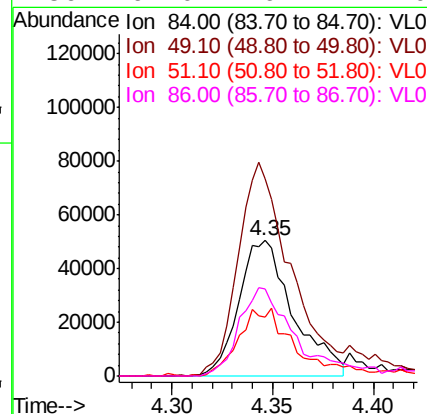
Ion Ratio Lower Upper

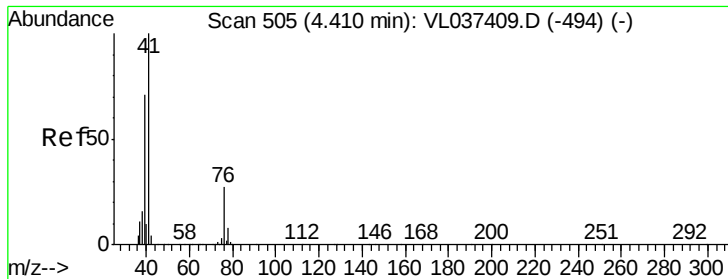
84 100

49 144.4 116.0 174.0

51 42.6 37.1 55.7

86 64.0 49.4 74.0





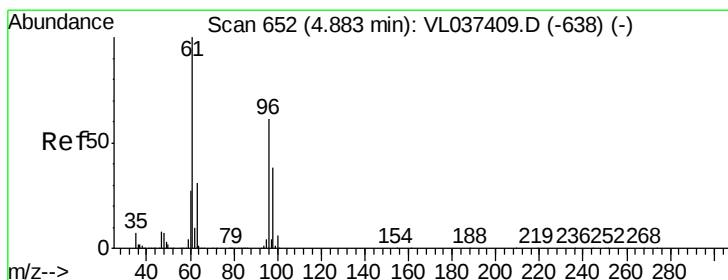
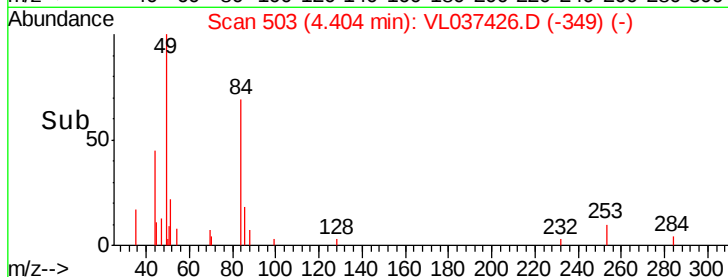
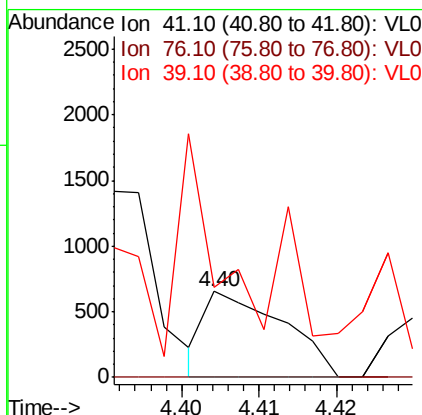
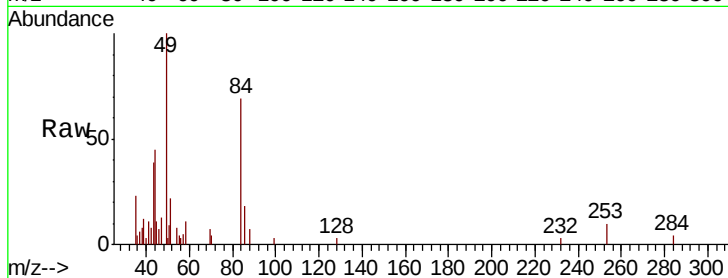
#21
Allvl Chloride
Concen: 0.004 ppbv
RT: 4.40 min Scan# 503
Delta R.T. -0.01 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampled :
IA-1REDL

Tot Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.7	35.5#
39	467.3	62.3	93.5#

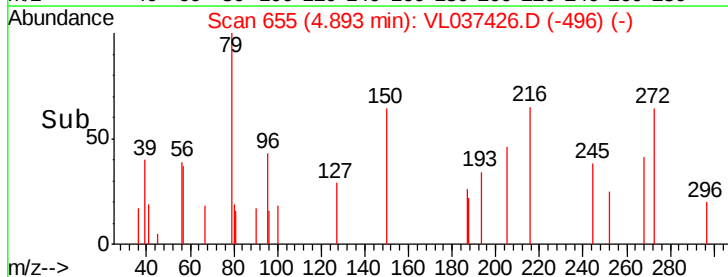
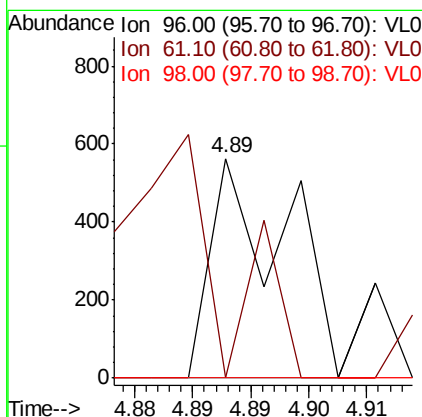
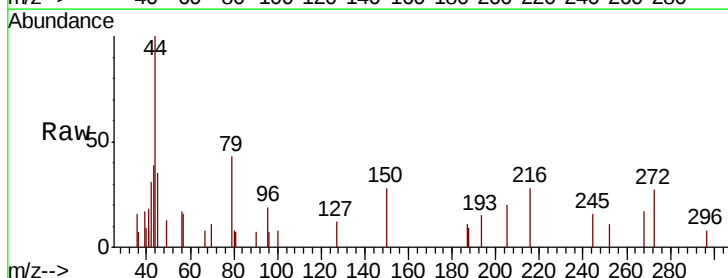
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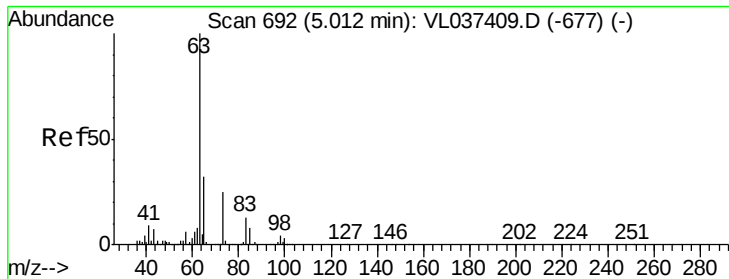
apatel
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#22
trans-1,2-Dichloroethene
Concen: 0.004 ppbv
RT: 4.89 min Scan# 655
Delta R.T. 0.01 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

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





#24

1,1-Dichloroethane

Concen: 0.000 ppbv

RT: 5.01 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

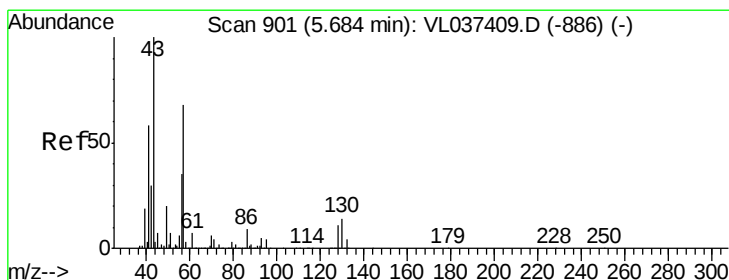
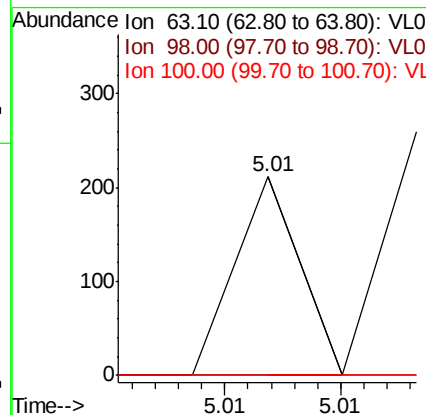
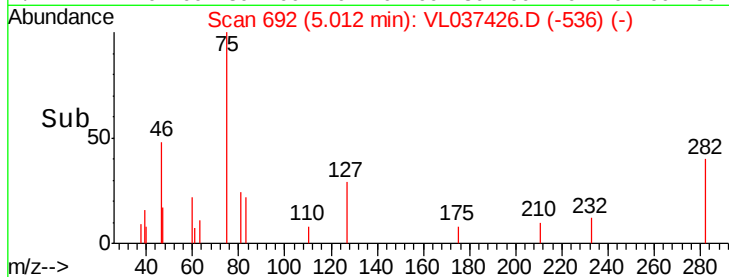
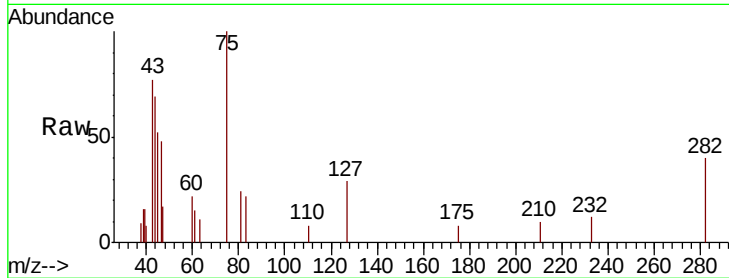
ClientSampleId :

IA-1REDL

Tot Ion:	63	Resp:	41
Ion Ratio	Lower	Upper	
63	100		
98	0.0	2.1	6.3#
100	0.0	1.6	4.7#

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#26

Hexane

Concen: 0.437 ppbv

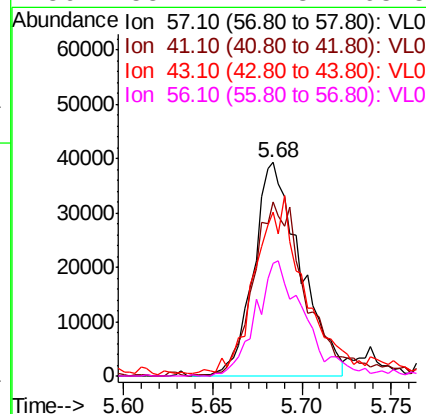
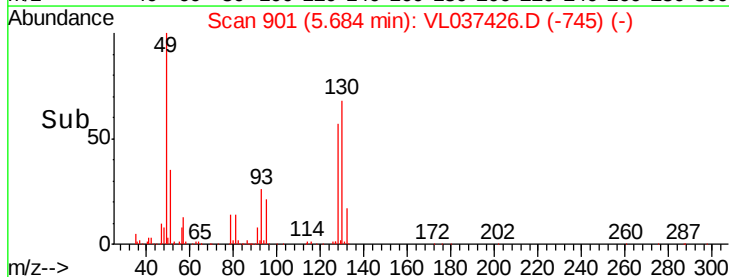
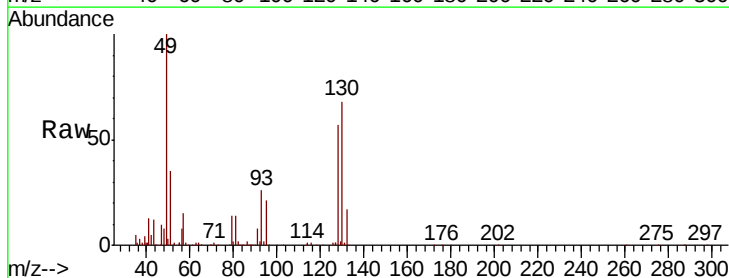
RT: 5.68 min Scan# 901

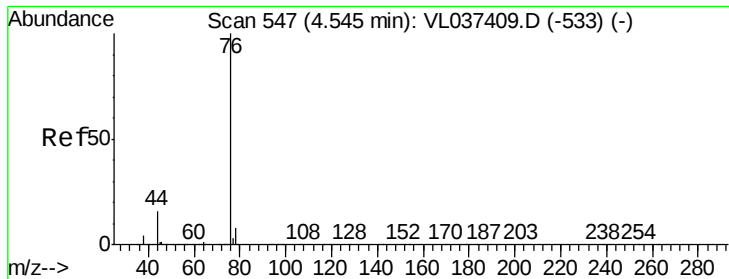
Delta R.T. 0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Tgt Ion:	57	Resp:	72321
Ion Ratio	Lower	Upper	
57	100		
41	96.5	72.5	108.7
43	93.6	169.3	253.9#
56	55.7	42.3	63.5





#27

Carbon Disulfide

Concen: 0.003 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

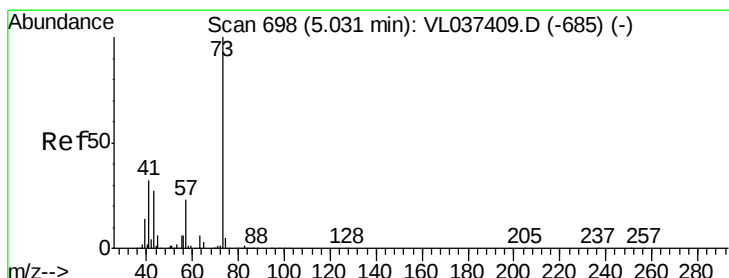
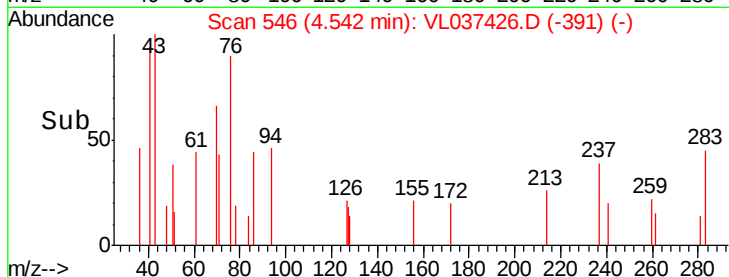
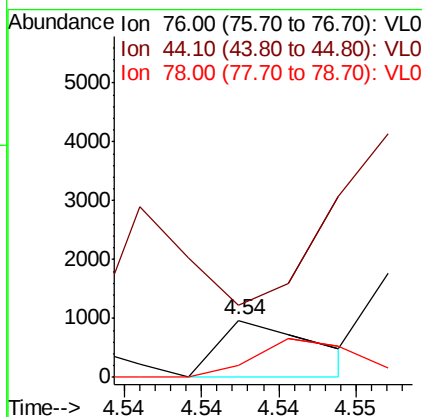
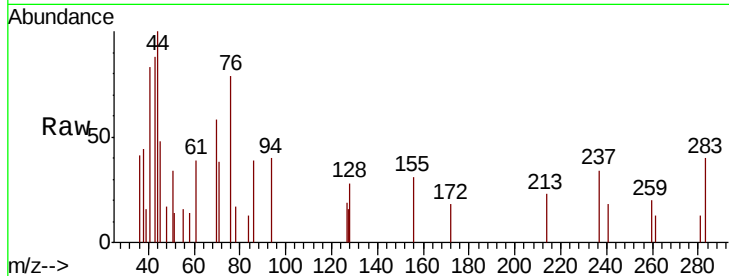
ClientSampled :

IA-1REDL

Tot Ion:	76	Resp:	420
Ion Ratio	Lower	Upper	
76	100		
44	0.0	14.4	21.6#
78	71.7	8.0	12.0#

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#28

Methyl tert-Butyl Ether

Concen: 0.000 ppbv

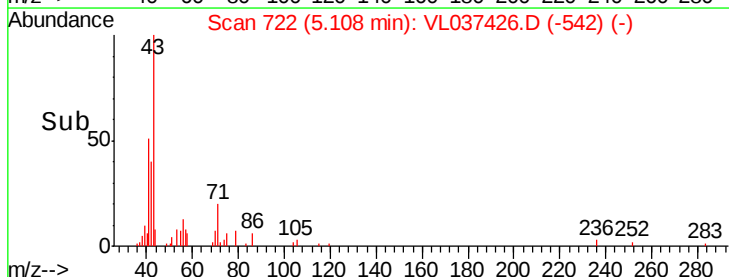
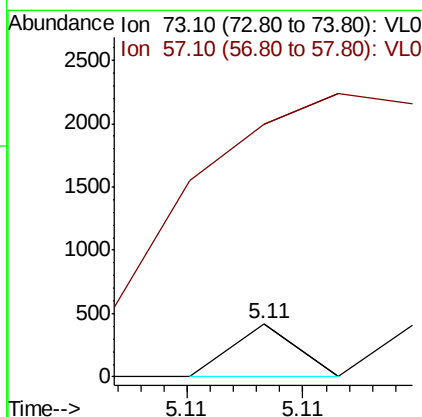
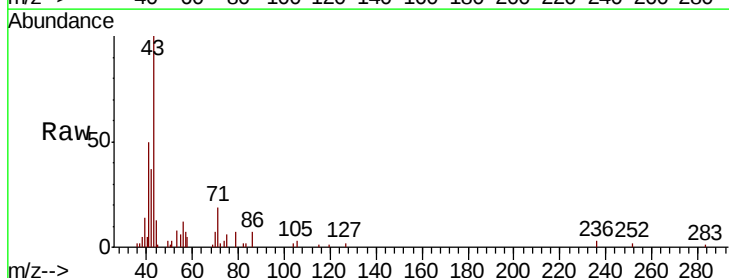
RT: 5.11 min Scan# 722

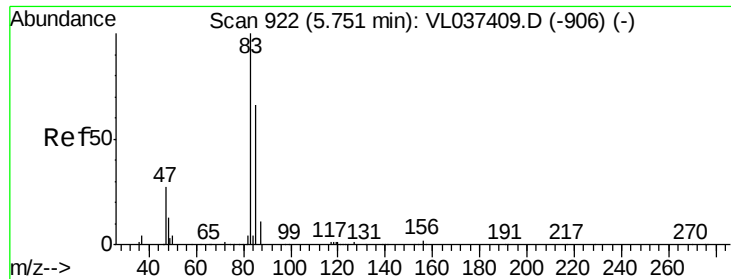
Delta R.T. 0.08 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Tgt Ion:	73	Resp:	81
Ion Ratio	Lower	Upper	
73	100		
57	0.0	19.0	28.4#





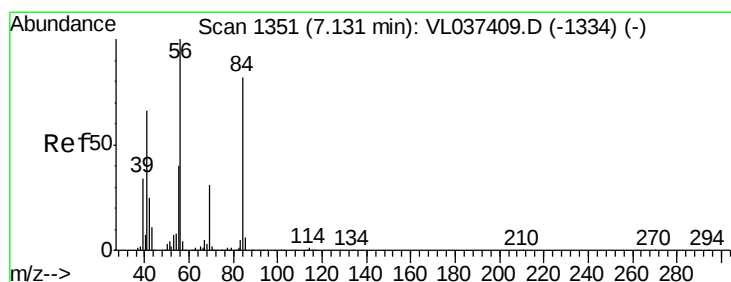
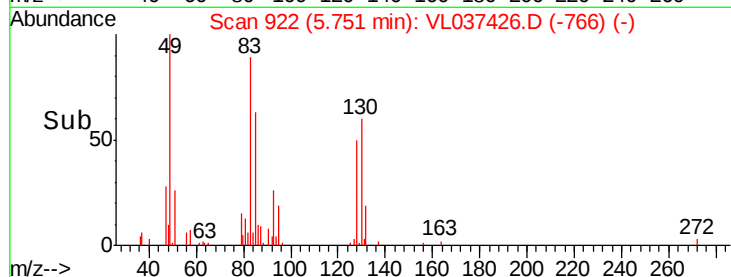
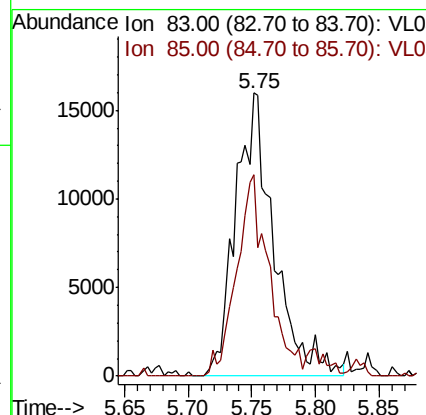
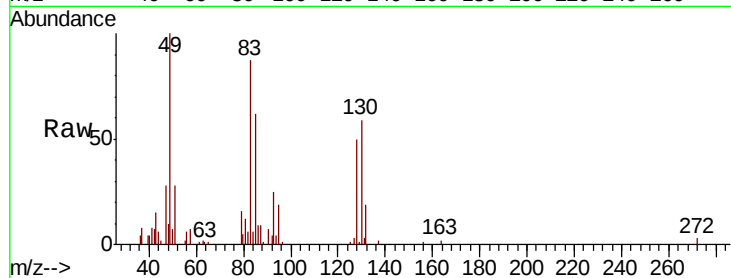
#29
Chloroform
Concen: 0.143 ppbv m
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampleId :
IA-1REDL

Tot Ion	Ratio	Lower	Upper
83	100		
85	71.1	52.4	78.6

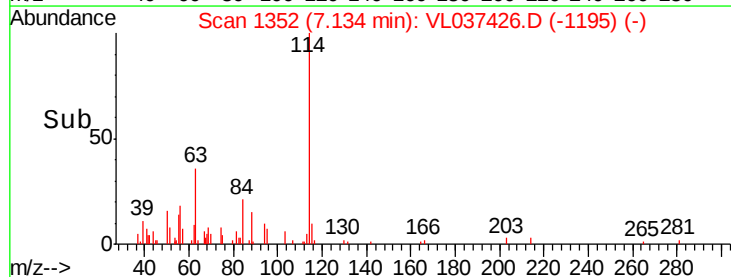
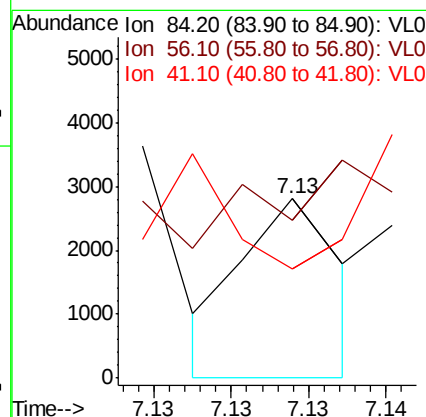
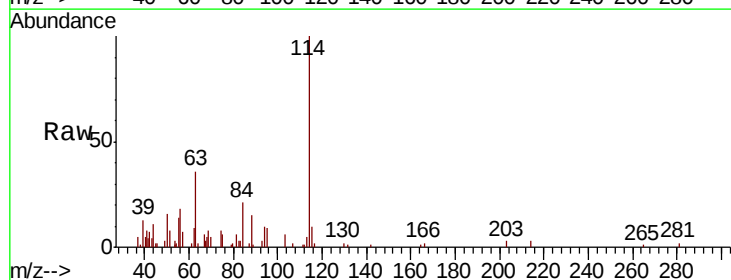
Manual Integrations
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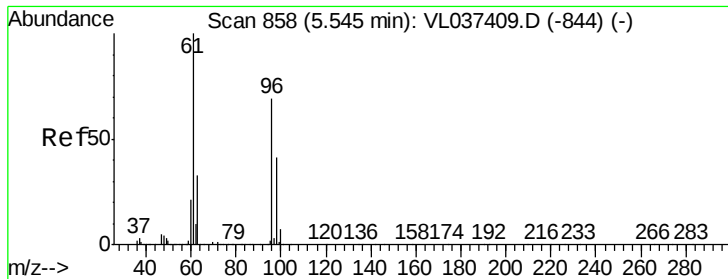
apatel
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#30
Cyclohexane
Concen: 0.009 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

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





#31

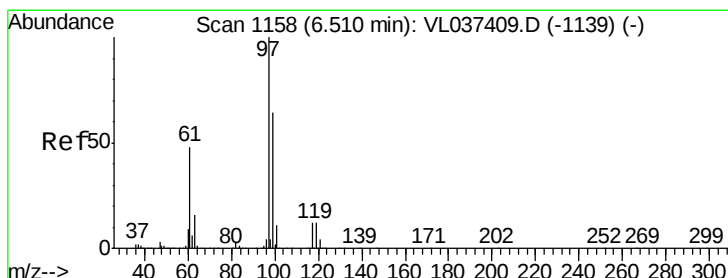
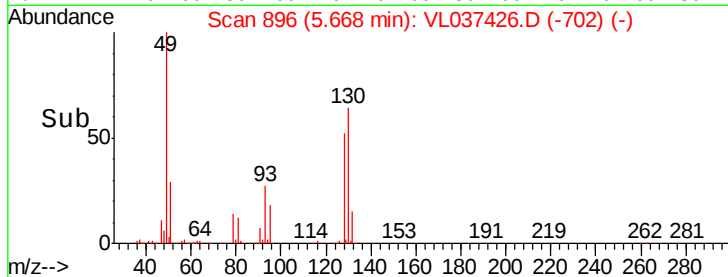
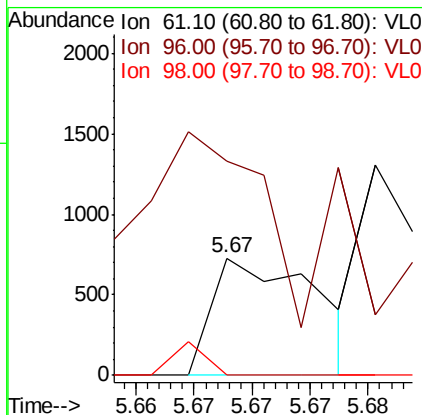
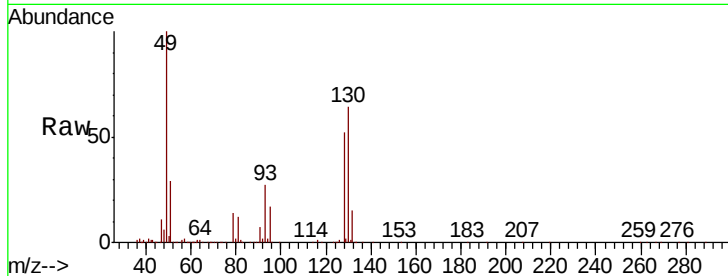
cis-1,2-Dichloroethene
Concen: 0.003 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.12 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampleId :
IA-1REDL

Tot Ion:	61	Resp:	454
Ion Ratio	Lower	Upper	
61	100		
96	5.2	55.5	83.3#
98	0.0	33.1	49.7#

Manual Integrations
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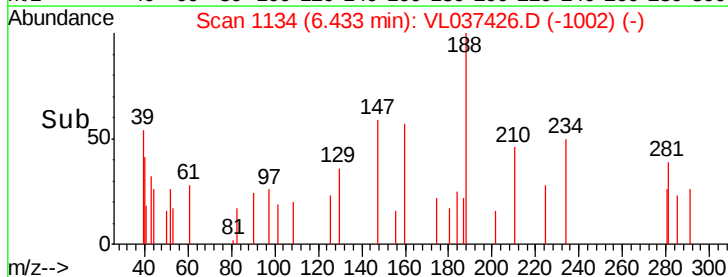
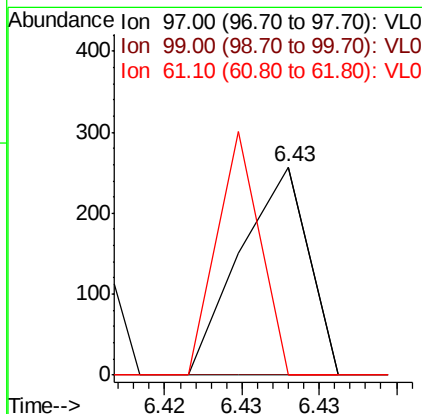
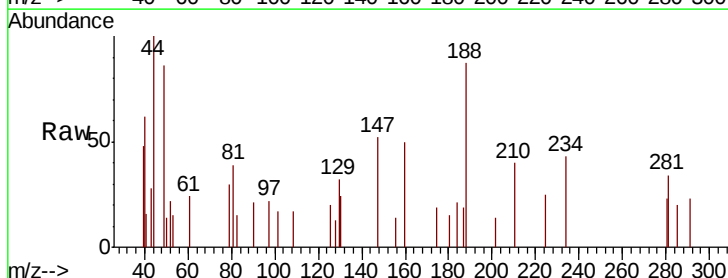
apatel
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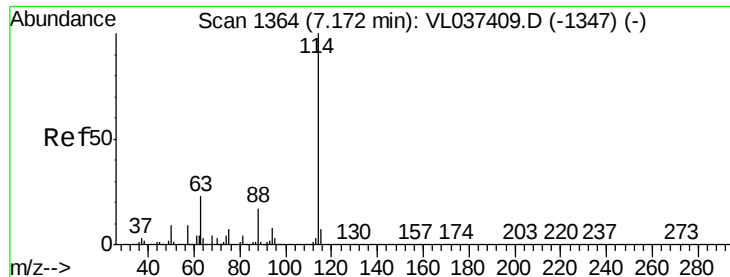


#32

1,1,1-Trichloroethane
Concen: 0.000 ppbv
RT: 6.43 min Scan# 1134
Delta R.T. -0.08 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Tgt Ion:	97	Resp:	79
Ion Ratio	Lower	Upper	
97	100		
99	164.6	52.3	78.5#
61	0.0	40.1	60.1#





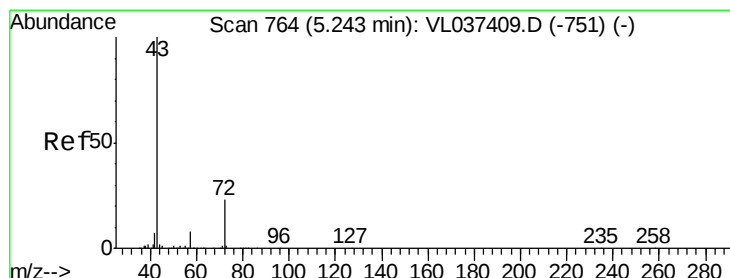
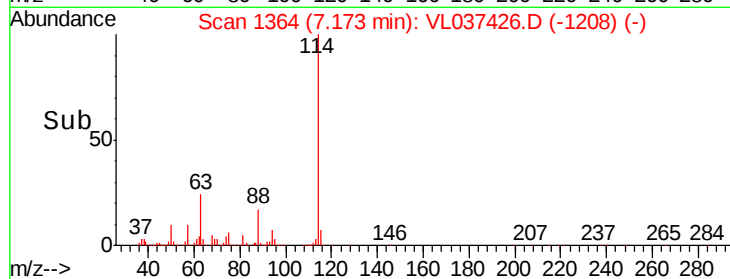
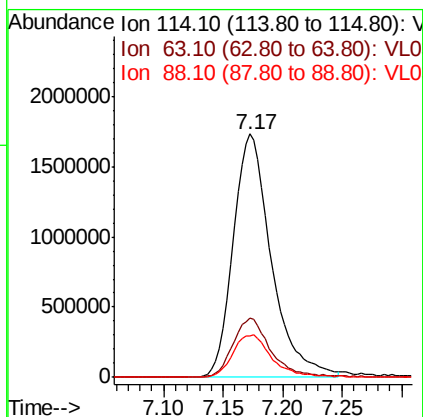
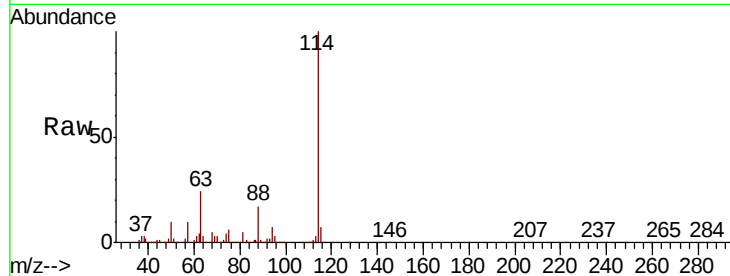
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1REDL

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.4	29.2
88	18.2	14.2	21.4

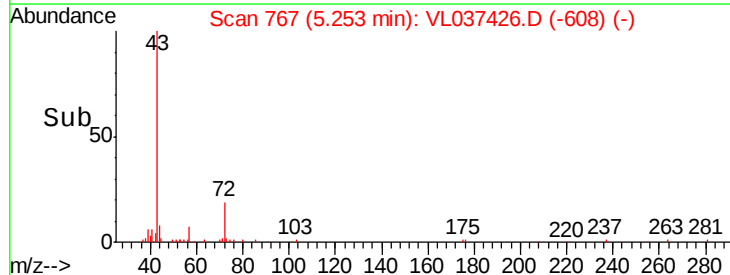
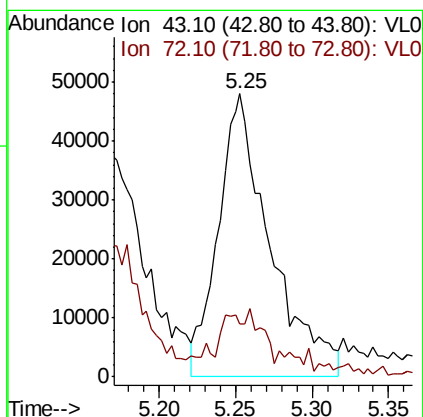
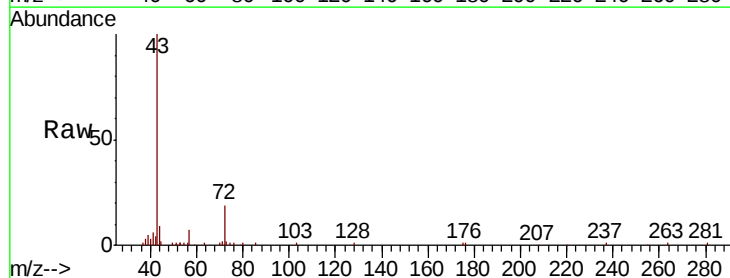
Manual Integrations
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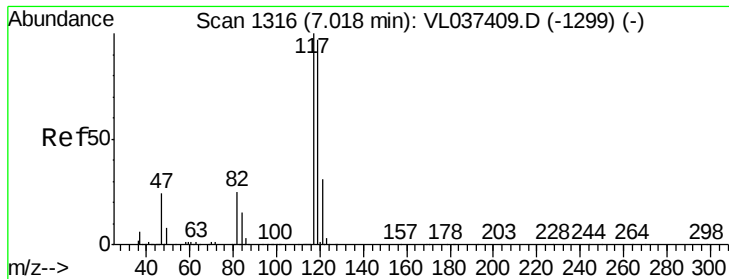
apatel
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#34
 2-Butanone
 Concen: 0.713 ppbv m
 RT: 5.25 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
43	100		
72	30.8	17.7	26.5





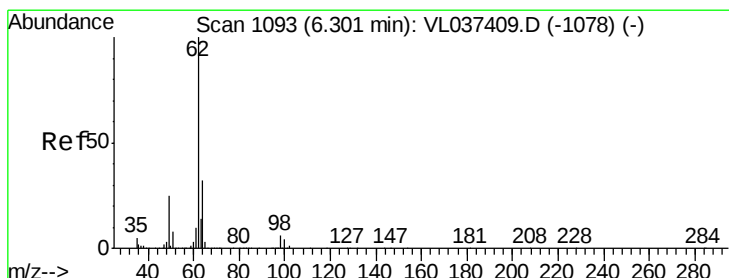
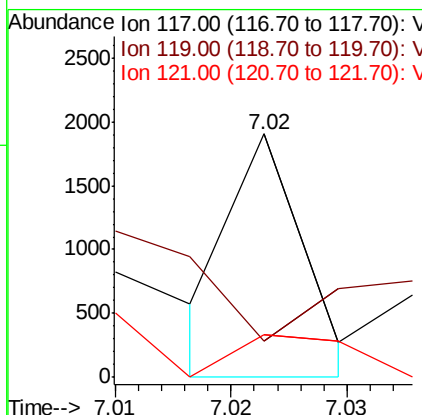
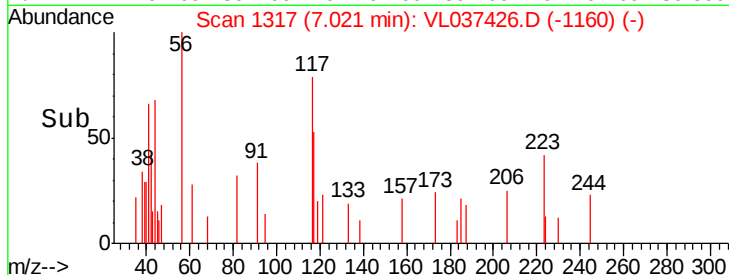
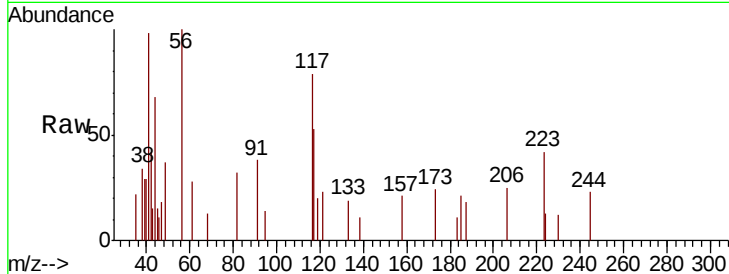
#35
Carbon Tetrachloride
Concen: 0.002 ppbv
RT: 7.02 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampled :
IA-1REDL

Tot Ion	Ratio	Lower	Upper
117	100		
119	0.0	77.5	116.3#
121	20.2	24.7	37.1#

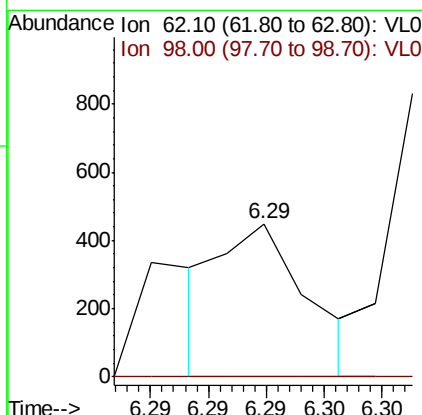
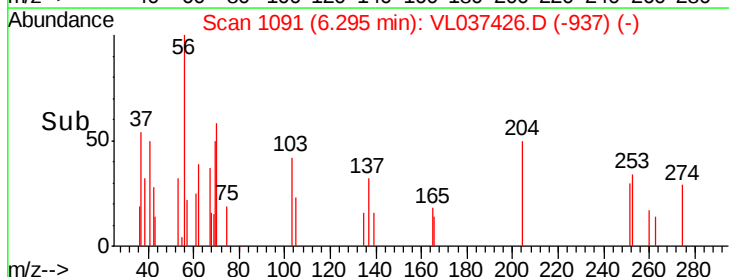
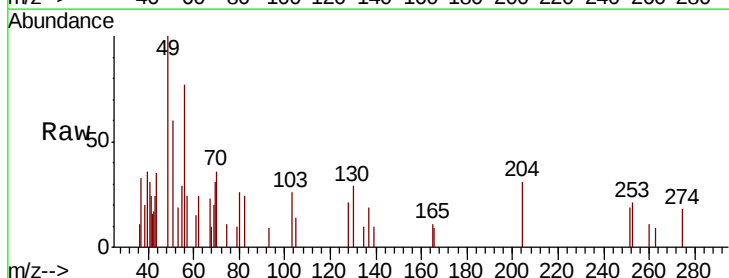
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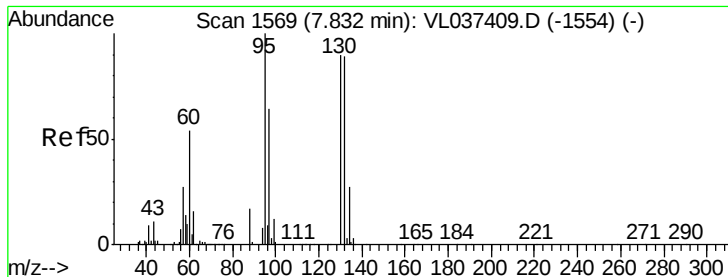
apatel
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#37
1,2-Dichloroethane
Concen: 0.001 ppbv
RT: 6.29 min Scan# 1091
Delta R.T. -0.01 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

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





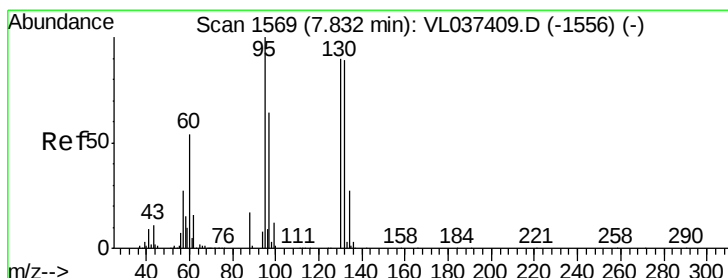
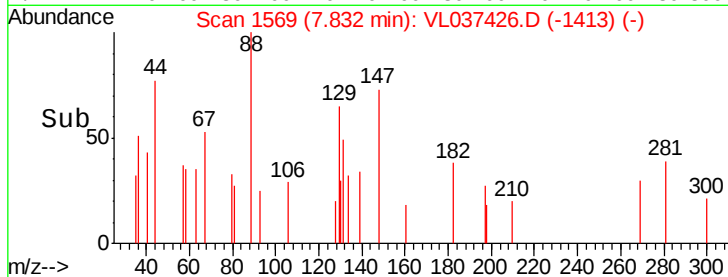
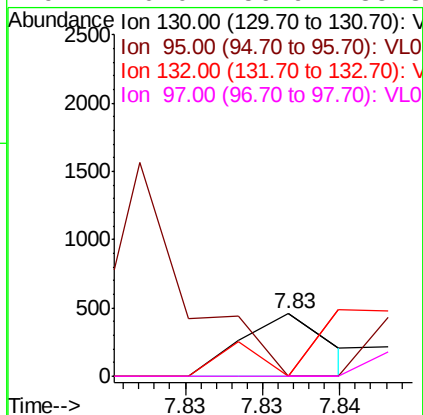
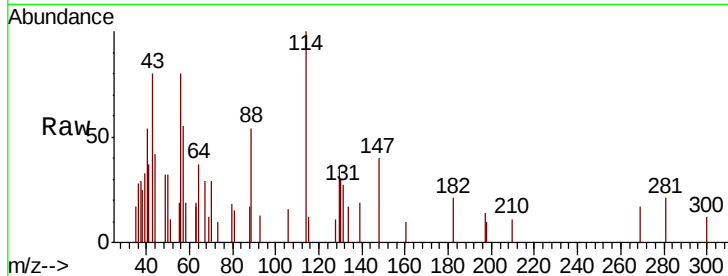
#38
 Trichloroethene
 Concen: 0.001 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1REDL

Tot 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#

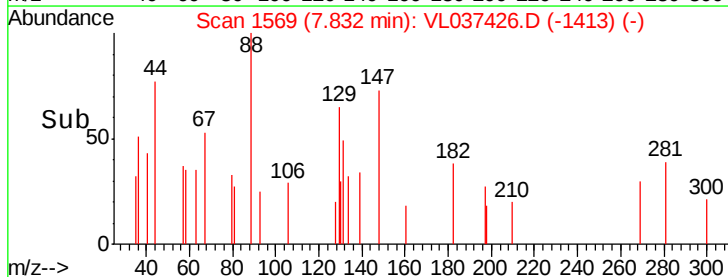
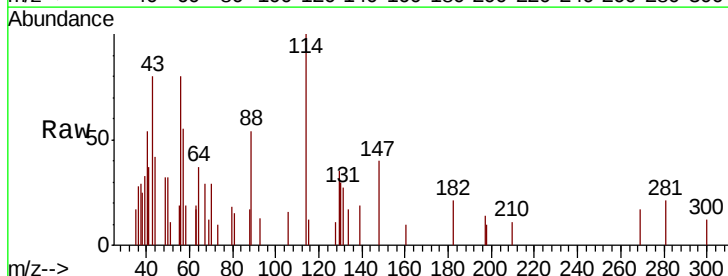
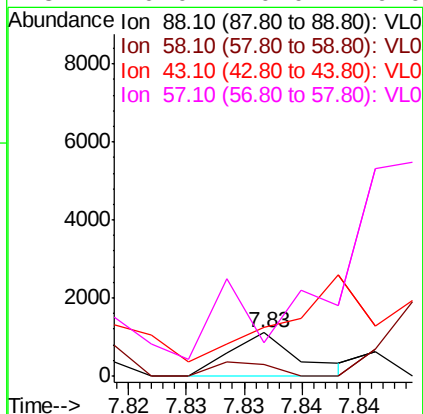
Manual Integrations
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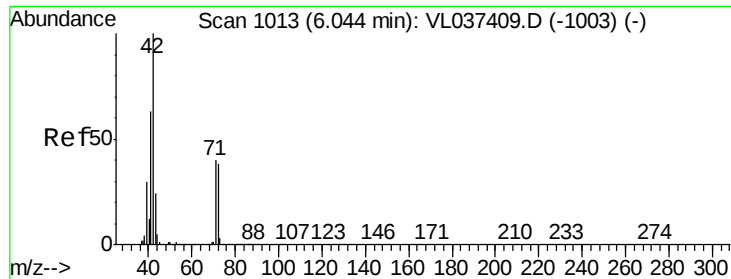
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#40
 1,4-Dioxane
 Concen: 0.015 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Tgt 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





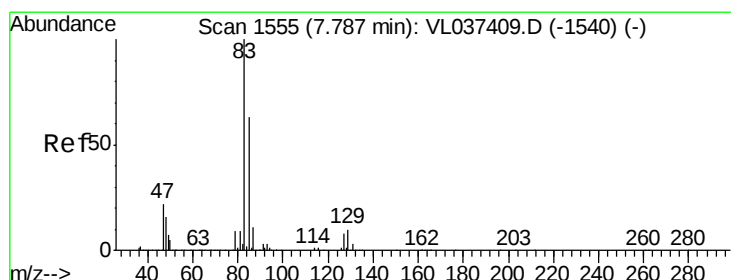
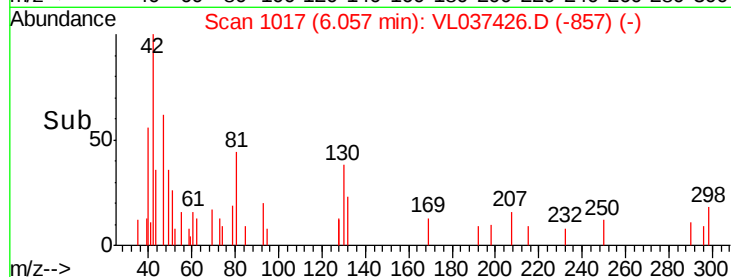
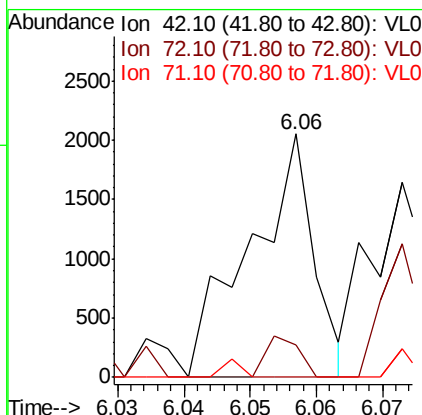
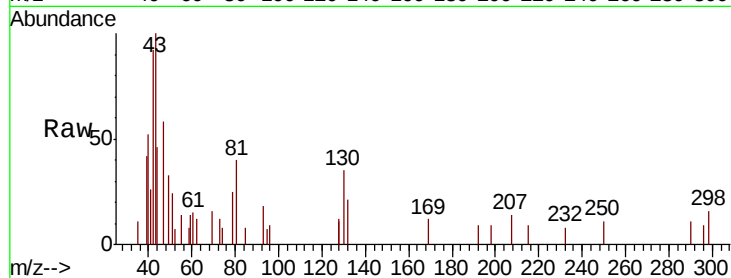
#41
Tetrahydrofuran
Concen: 0.019 ppbv
RT: 6.06 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampled :
IA-1REDL

Tot Ion	Ratio	Lower	Upper
42	100		
72	7.2	33.5	50.3#
71	0.0	32.6	48.8#

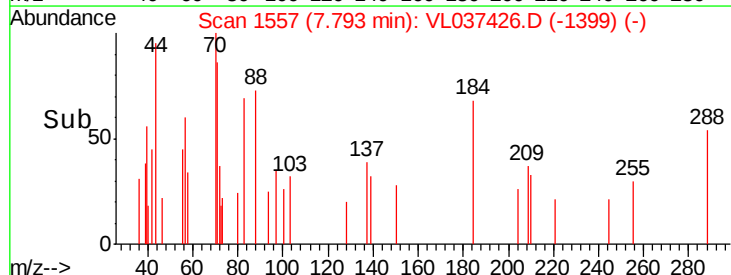
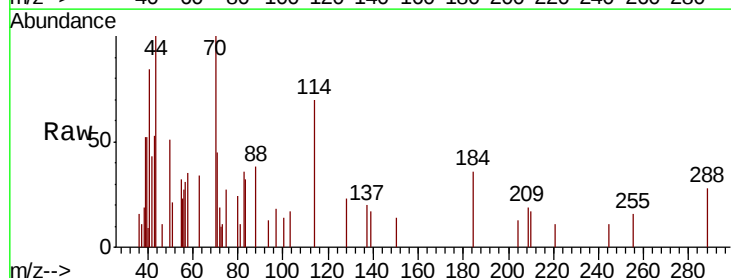
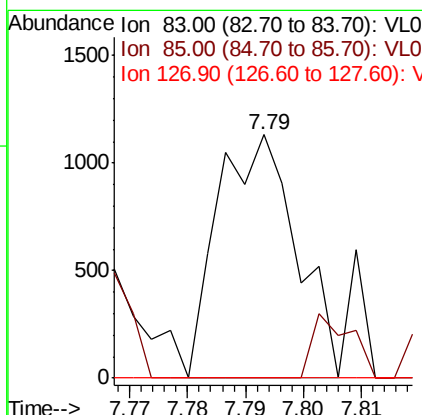
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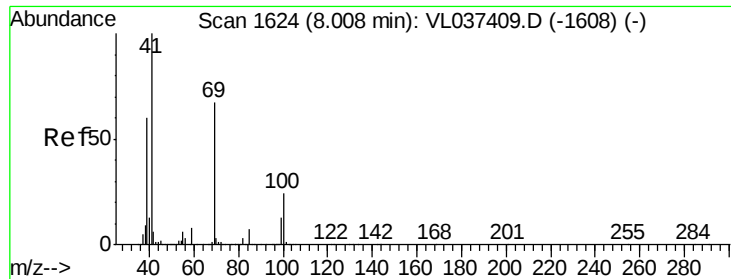
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#42
Bromodichloromethane
Concen: 0.005 ppbv
RT: 7.79 min Scan# 1557
Delta R.T. 0.01 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.2	75.2#
127	0.0	6.6	9.8#





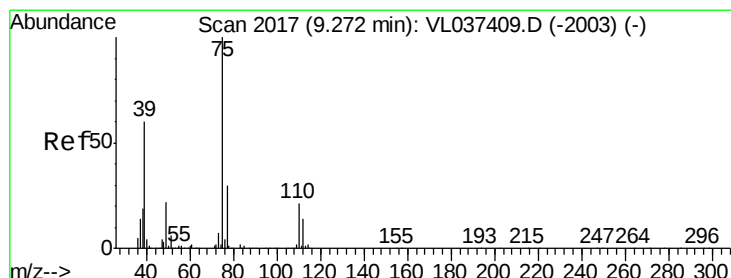
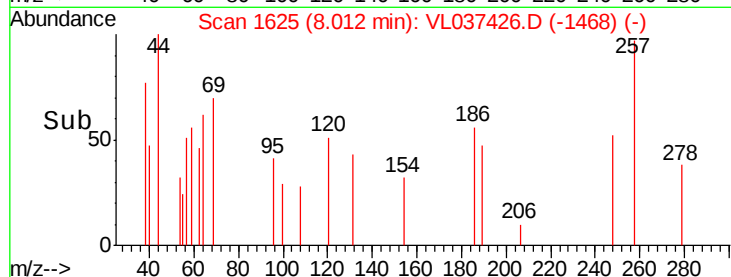
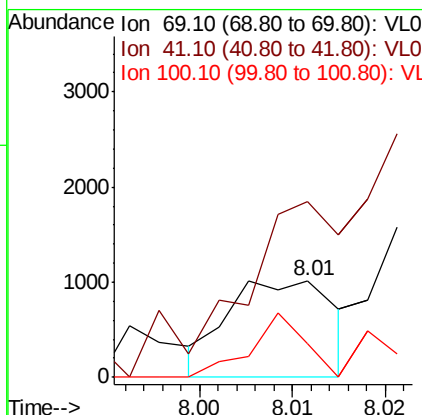
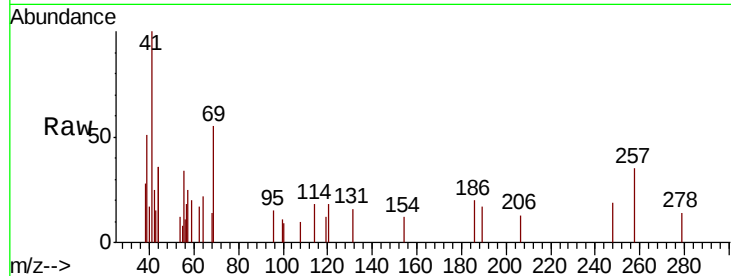
#43
Methvl Methacrilate
Concen: 0.007 ppbv
RT: 8.01 min Scan# 1625
Delta R.T. 0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampleId :
IA-1REDL

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.1	177.1#
100	0.0	27.6	41.4#

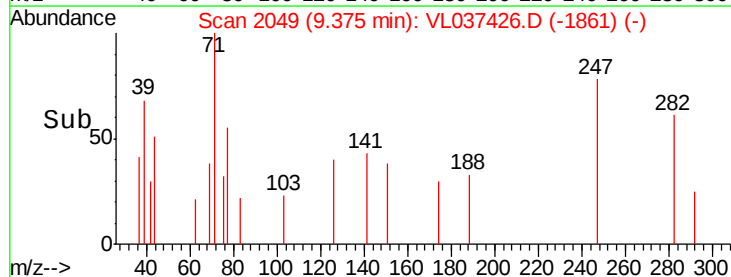
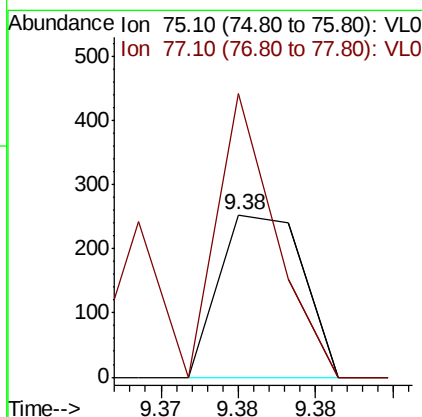
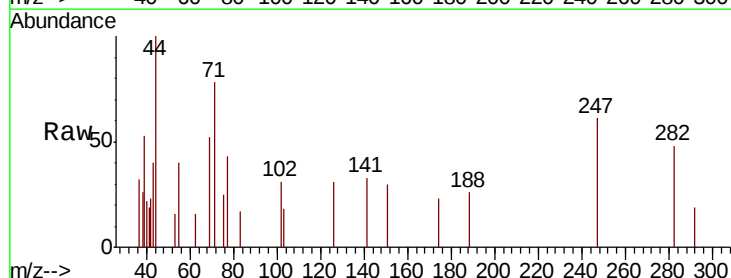
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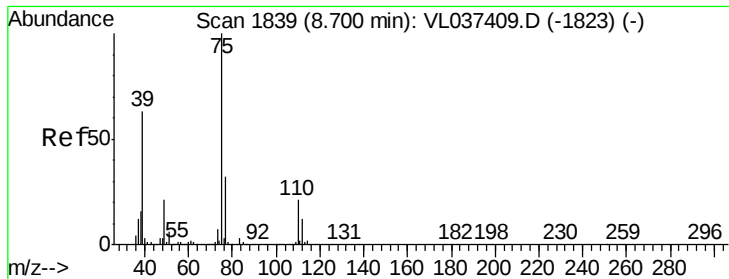
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#45
t-1,3-Dichloropropene
Concen: 0.001 ppbv
RT: 9.38 min Scan# 2049
Delta R.T. 0.10 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
75	100		
77	174.7	24.2	36.2#





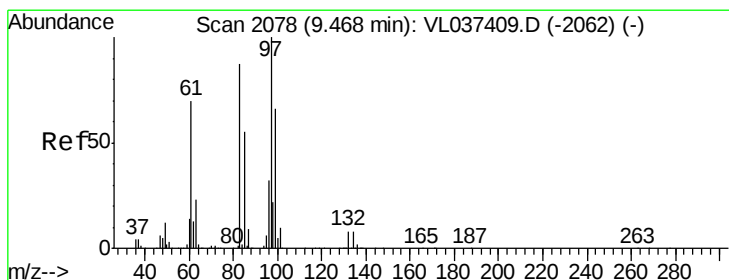
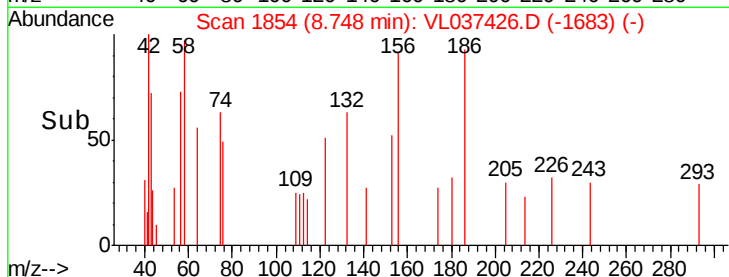
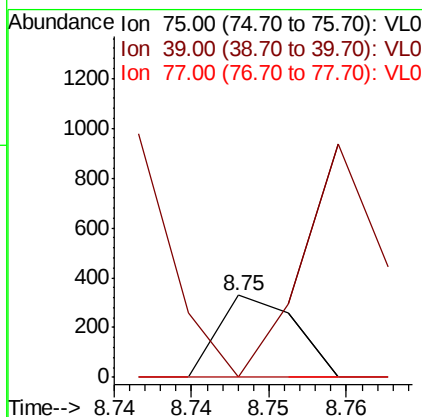
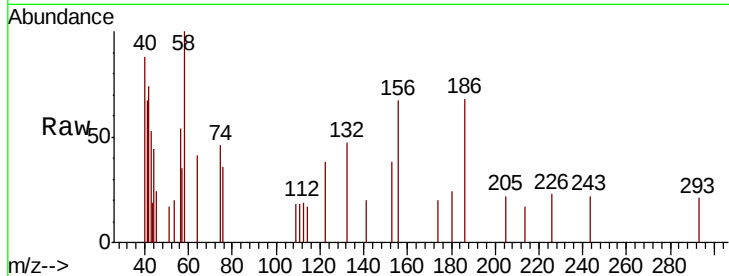
#46
 cis-1,3-Dichloropropene
 Concen: 0.001 ppbv
 RT: 8.75 min Scan# 1854
 Delta R.T. 0.05 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1REDL

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

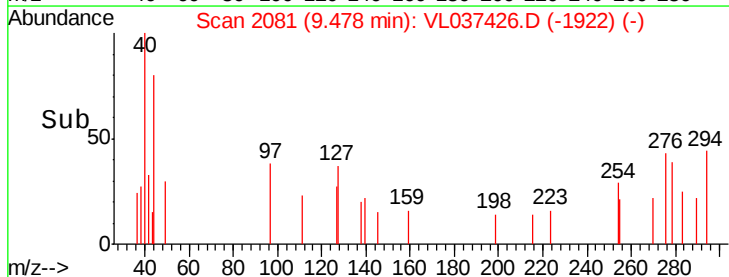
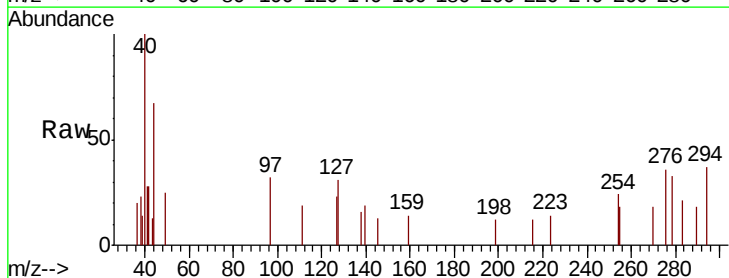
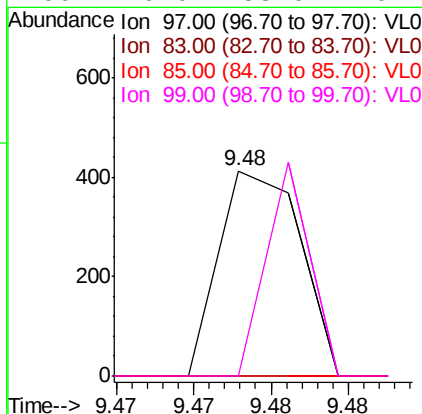
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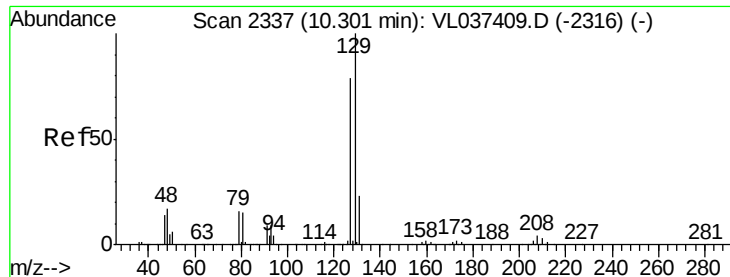
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#47
 1,1,2-Trichloroethane
 Concen: 0.001 ppbv
 RT: 9.48 min Scan# 2081
 Delta R.T. 0.01 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

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#





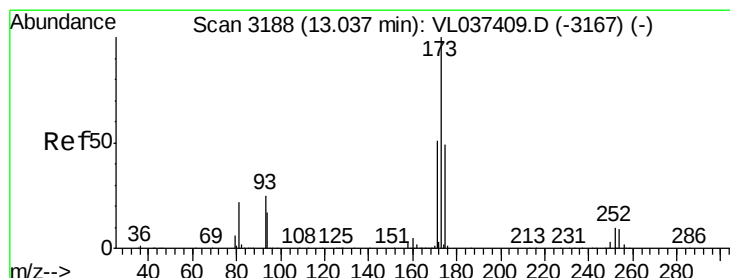
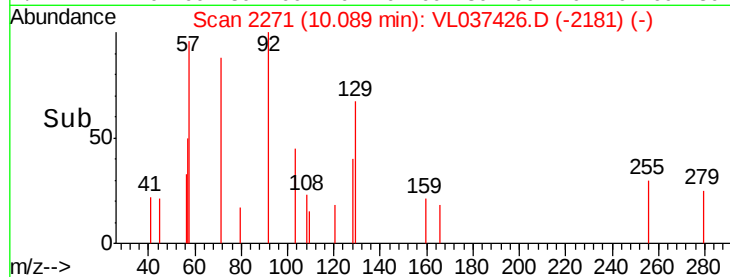
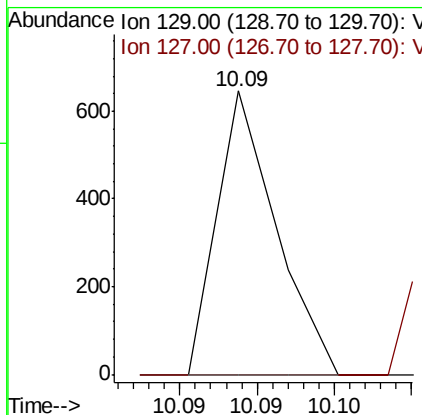
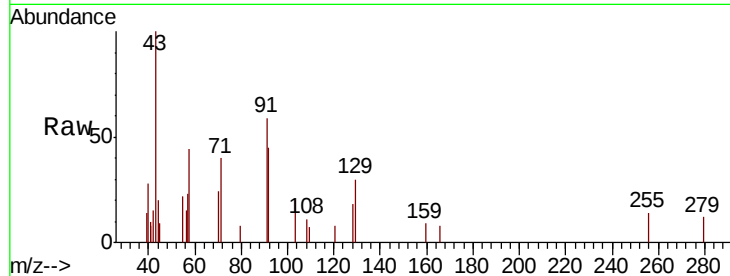
#48
Dibromochloromethane
Concen: 0.001 ppbv
RT: 10.09 min Scan# 2271
Delta R.T. -0.21 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampled :
IA-1REDL

Tot Ion:129 Resp: 170
Ion Ratio Lower Upper
129 100
127 114.7 39.6 118.8

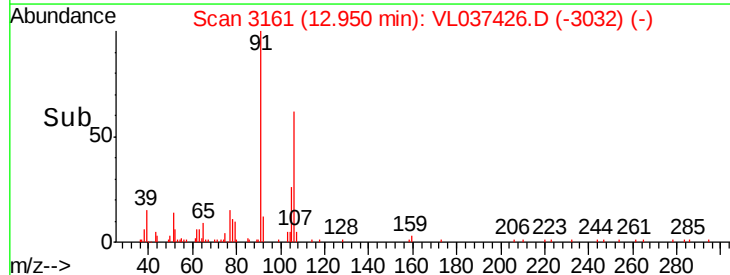
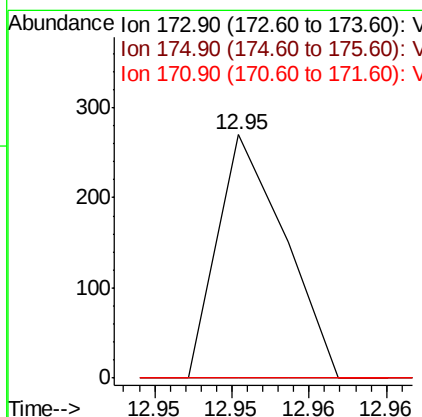
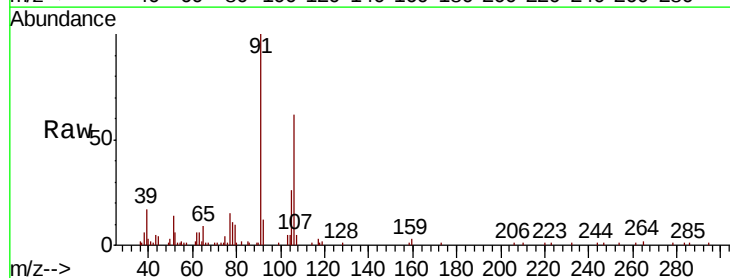
Manual Integrations
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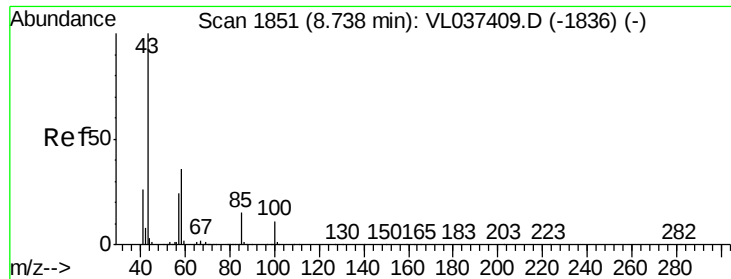
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#49
Bromoform
Concen: 0.001 ppbv
RT: 12.95 min Scan# 3161
Delta R.T. -0.09 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Tgt Ion:173 Resp: 81
Ion Ratio Lower Upper
173 100
175 174.1 39.9 59.9#
171 98.8 41.4 62.2#





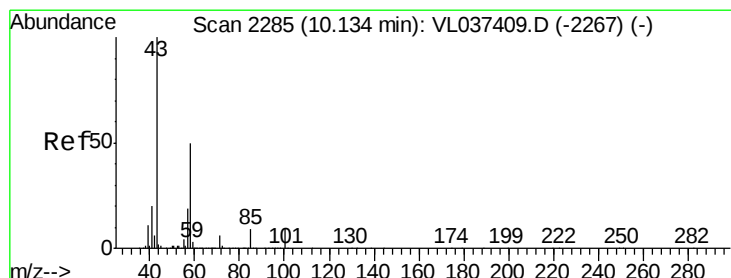
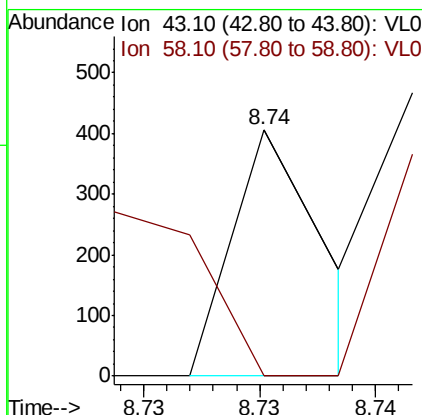
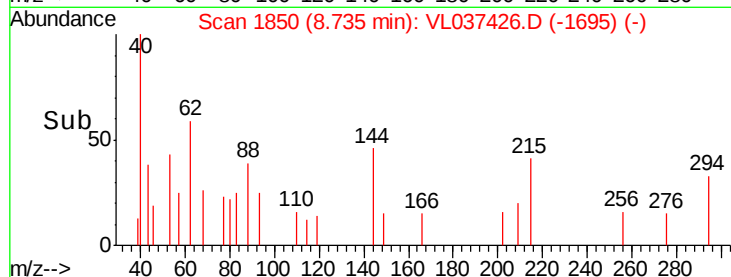
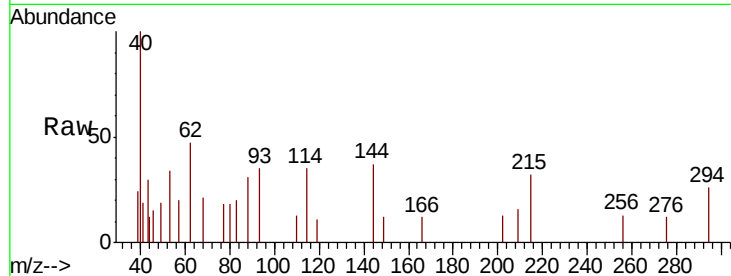
#50
4-Methyl-2-Pentanone
Concen: 0.001 ppbv
RT: 8.74 min Scan# 1850
Delta R.T. -0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampled :
IA-1REDL

Tot Ion: 43 Resp: 113
Ion Ratio Lower Upper
43 100
58 0.0 29.9 44.9#

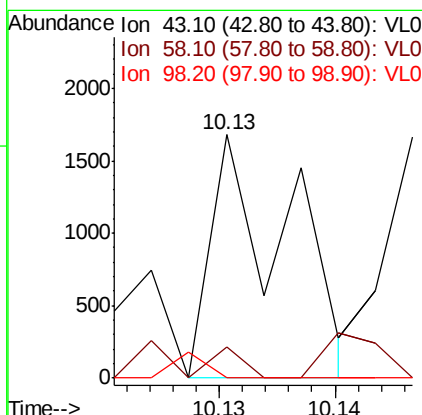
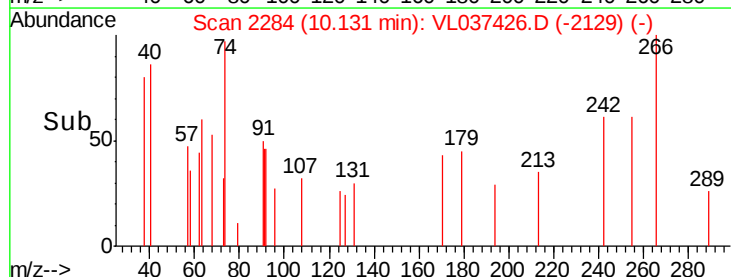
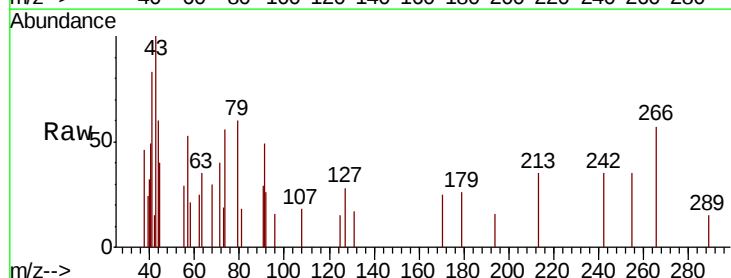
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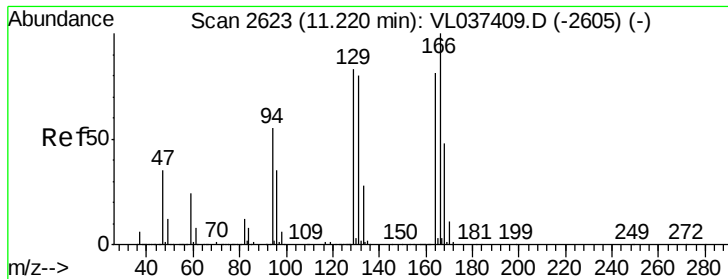
apatel
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#51
2-Hexanone
Concen: 0.008 ppbv
RT: 10.13 min Scan# 2284
Delta R.T. -0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Tgt Ion: 43 Resp: 768
Ion Ratio Lower Upper
43 100
58 0.0 39.9 59.9#
98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.002 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

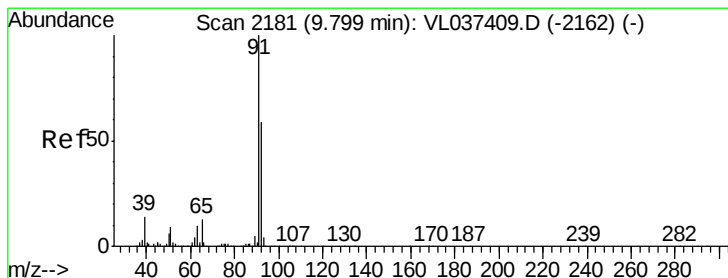
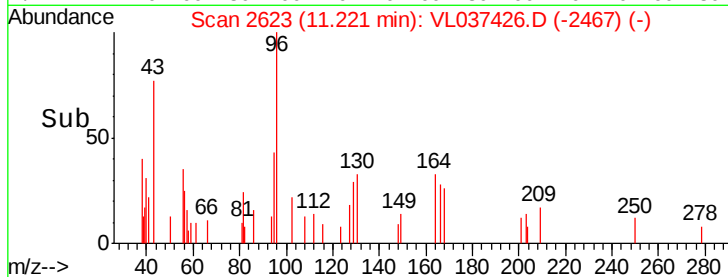
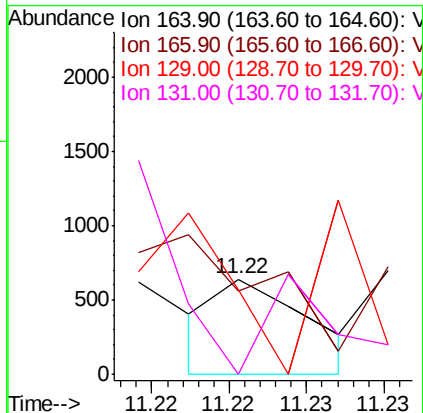
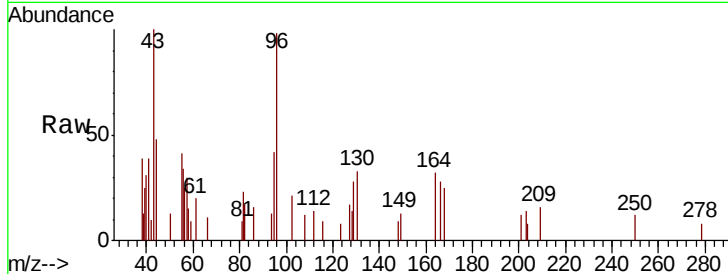
ClientSampleId :

IA-1REDL

Tot Ion	Ratio	Lower	Upper
164	100		
166	107.0	98.6	147.8
129	0.0	82.0	123.0#
131	0.0	78.6	117.8#

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#53

Toluene

Concen: 1.238 ppbv m

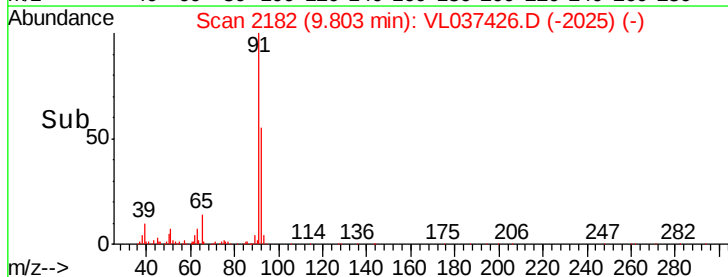
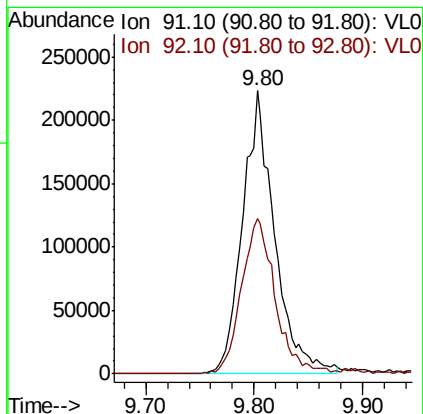
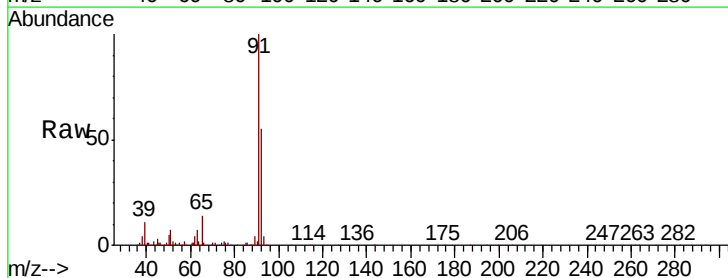
RT: 9.80 min Scan# 2182

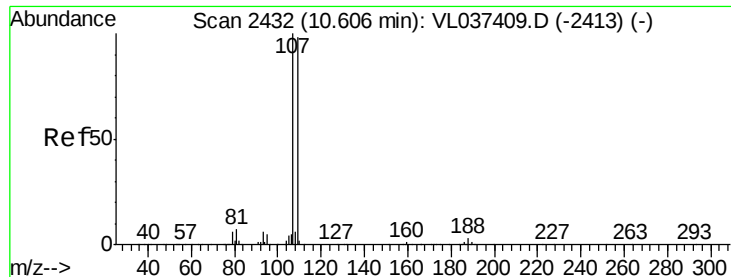
Delta R.T. 0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.4	49.0	73.6





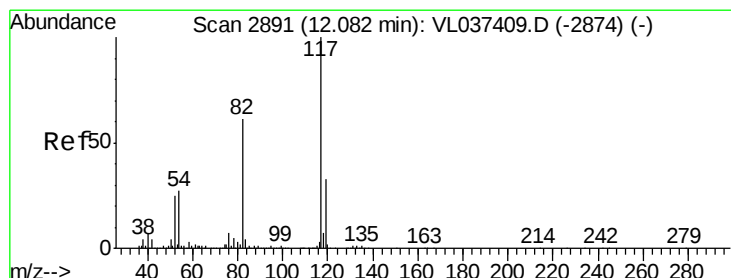
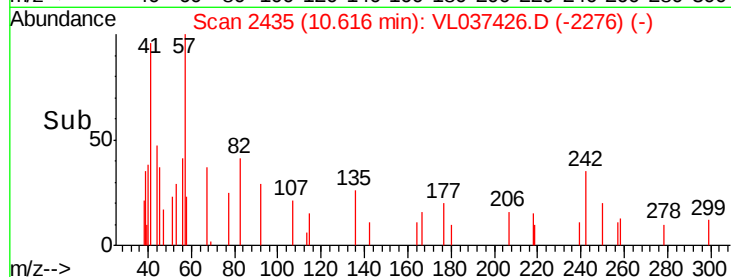
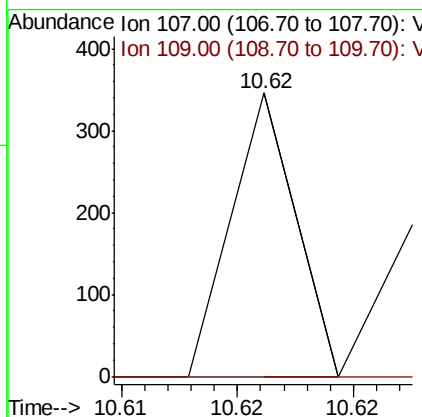
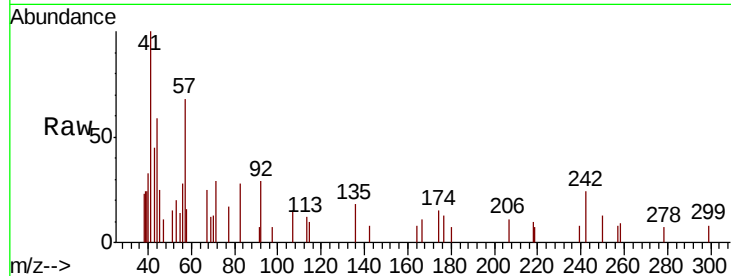
#54
1,2-Dibromoethane
Concen: 0.000 ppbv
RT: 10.62 min Scan# 2435
Delta R.T. 0.01 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampleId :
IA-1REDL

Tot Ion	Ratio	Lower	Upper
107	100		
109	0.0	78.4	117.6#

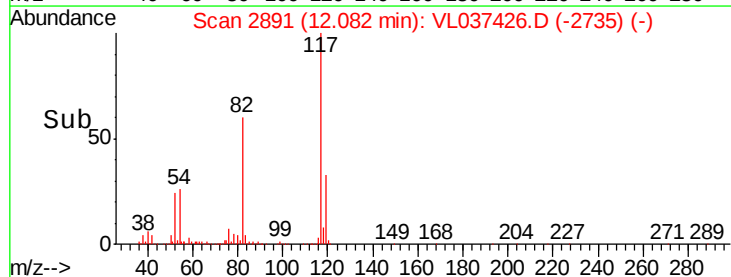
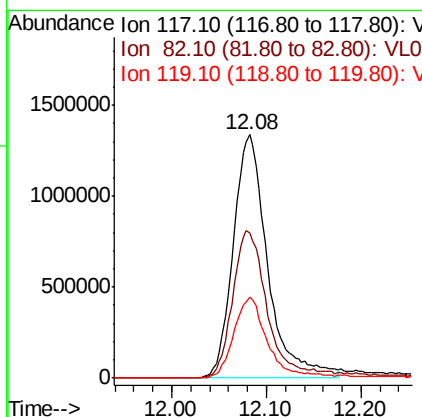
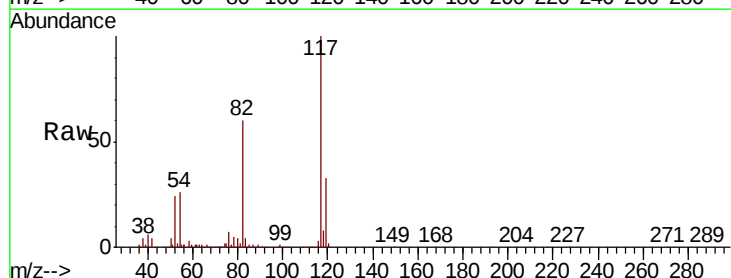
Manual Integrations
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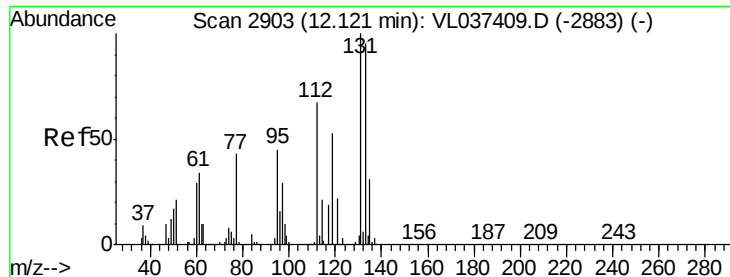
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.0	53.1	79.7
119	33.8	28.0	42.0





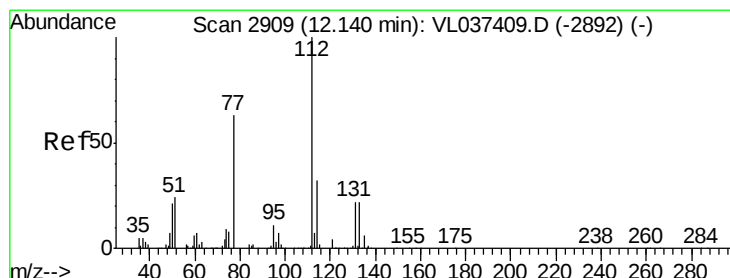
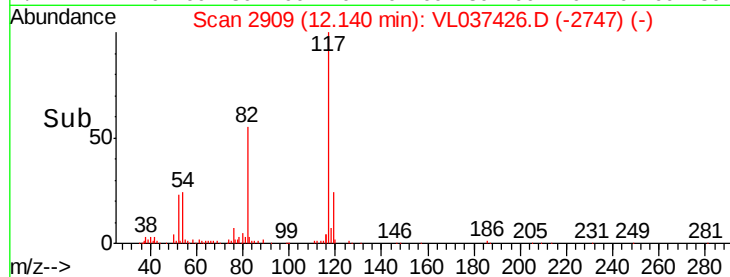
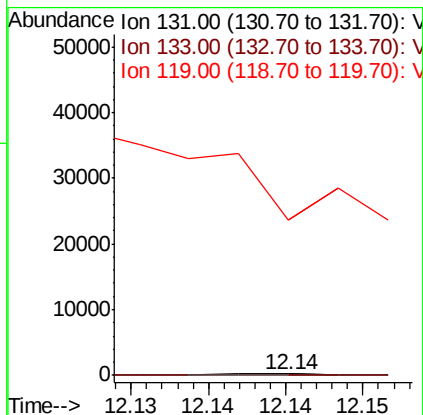
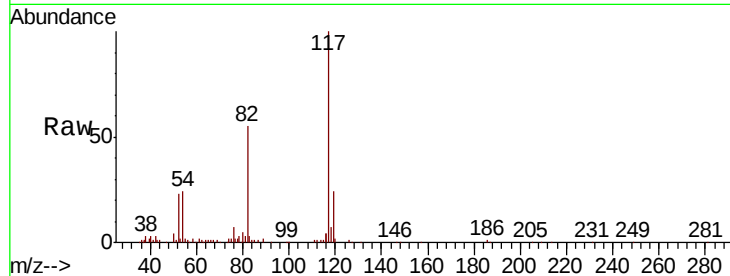
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.001 ppbv
 RT: 12.14 min Scan# 2909
 Delta R.T. 0.02 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1REDL

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

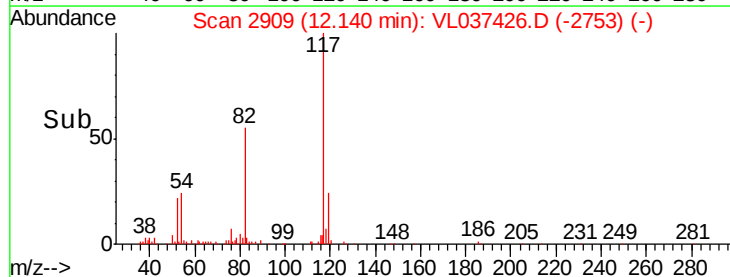
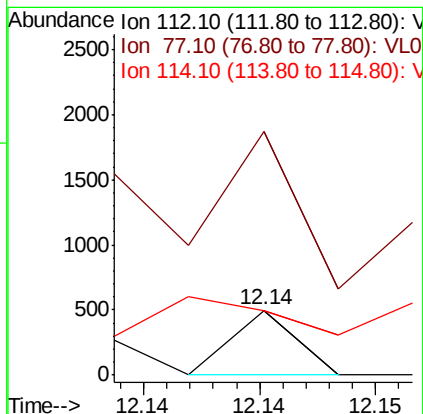
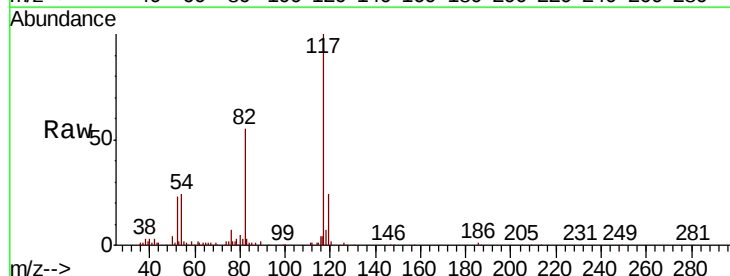
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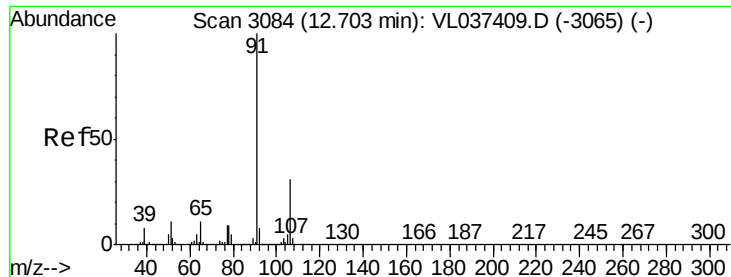
apatel
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#57
 Chlorobenzene
 Concen: 0.000 ppbv
 RT: 12.14 min Scan# 2909
 Delta R.T. 0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
112	100		
77	536.6	50.0	75.0#
114	143.9	28.5	34.9#





#58

Ethyl Benzene

Concen: 0.013 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. -0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

ClientSampleId :

IA-1REDL

Tot Ion: 91 Resp: 6119

Ion Ratio Lower Upper

91 100

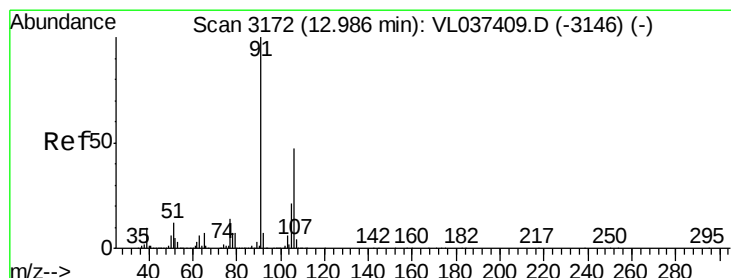
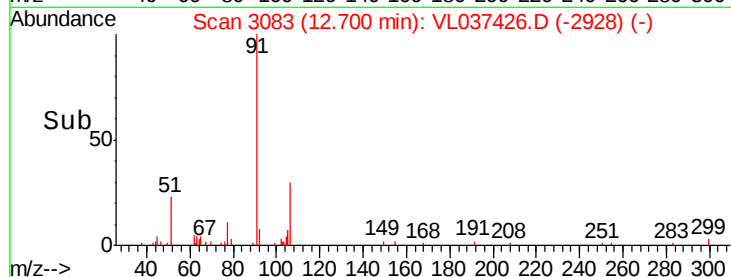
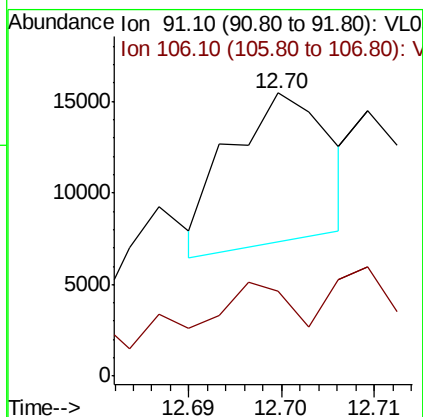
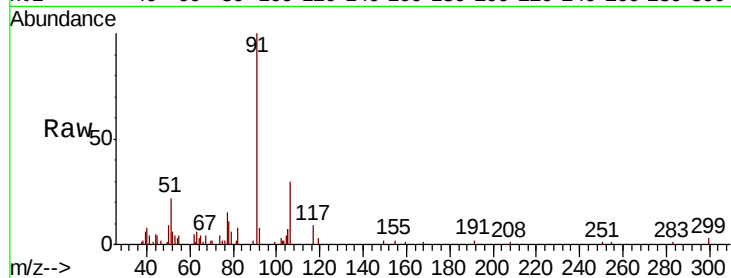
106 26.3 24.7 37.1

Manual Integrations

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#59

m/p-Xylene

Concen: 0.325 ppbv m

RT: 12.96 min Scan# 3163

Delta R.T. -0.03 min

Lab File: VL037426.D

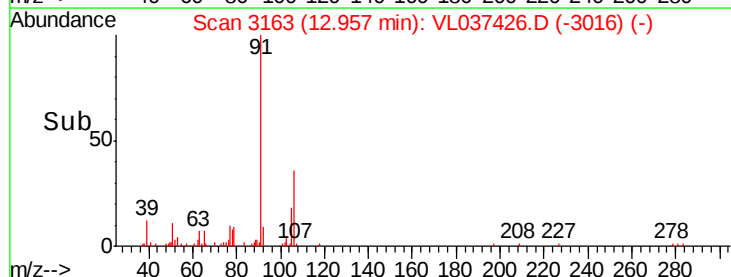
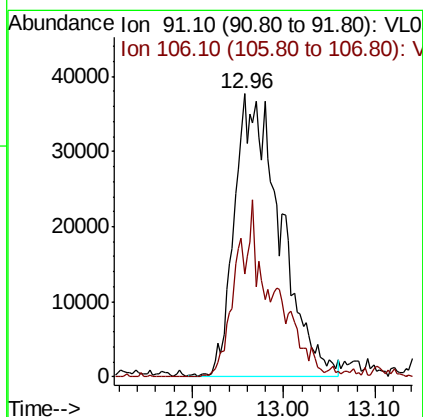
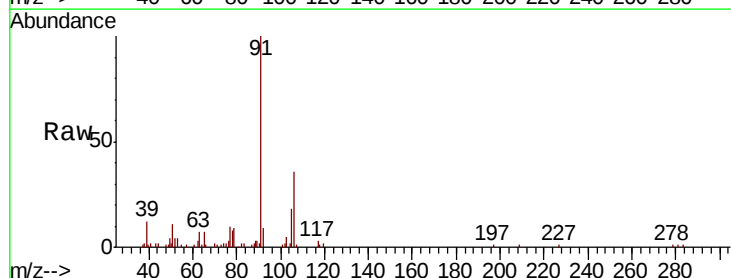
Acq: 12 Aug 2021 23:23

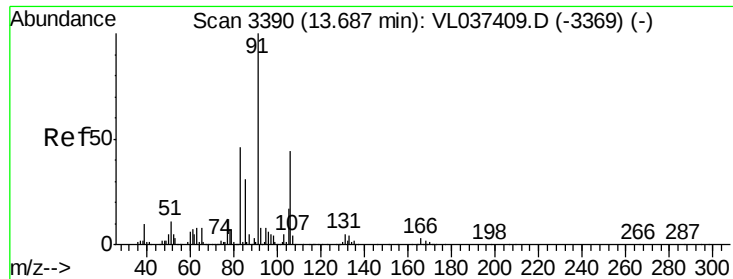
Tgt Ion: 91 Resp: 131318

Ion Ratio Lower Upper

91 100

106 0.0 36.6 54.8#





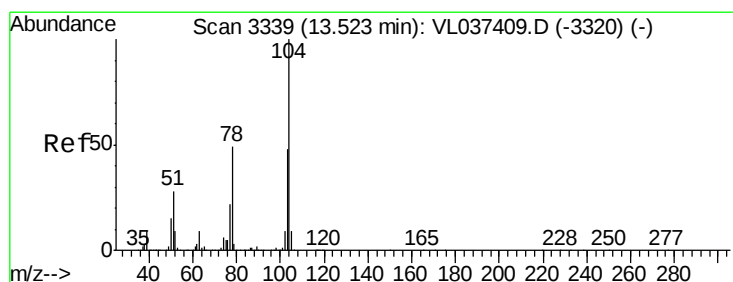
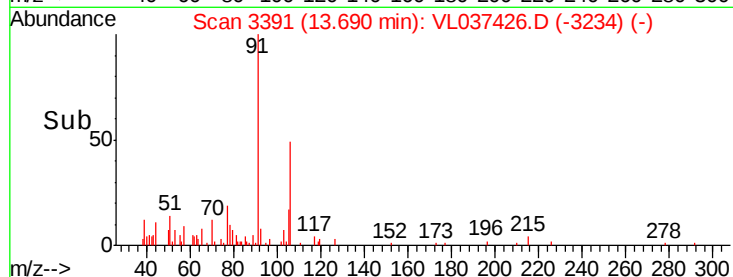
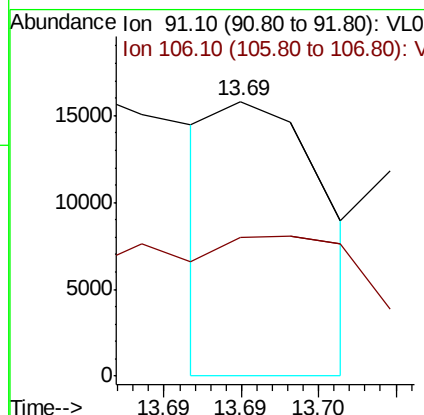
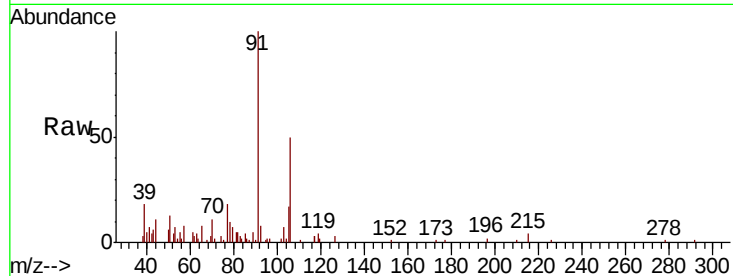
#60
o-Xylene
Concen: 0.020 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. 0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampled :
IA-1REDL

Tot Ion: 91 Resp: 7583
Ion Ratio Lower Upper
91 100
106 256.9 24.1 72.2#

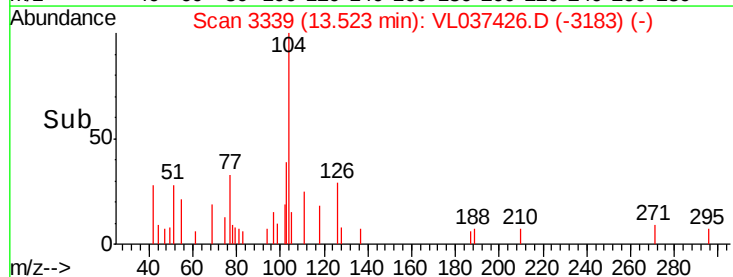
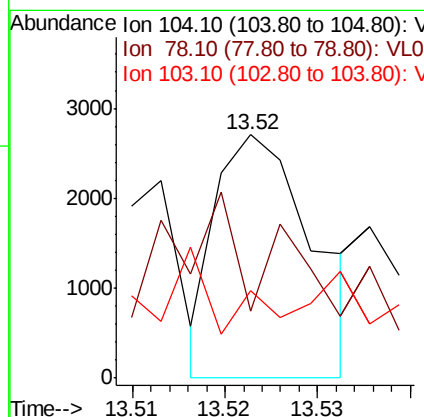
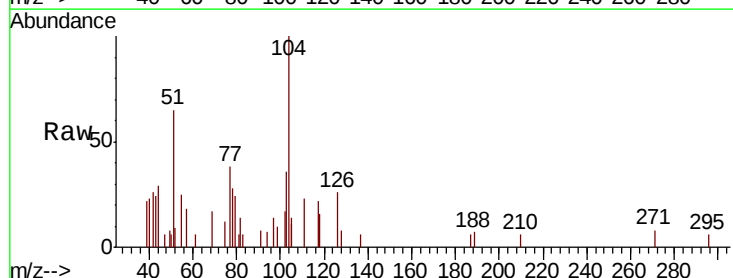
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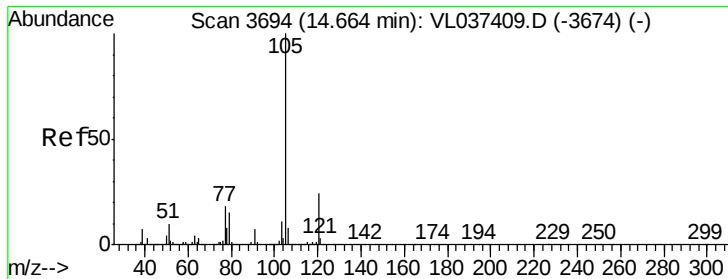
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#61
Styrene
Concen: 0.010 ppbv
RT: 13.52 min Scan# 3339
Delta R.T. 0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Tgt Ion: 104 Resp: 1971
Ion Ratio Lower Upper
104 100
78 218.9 41.5 62.3#
103 145.5 40.2 60.2#





#62

Isopropylbenzene

Concen: 0.004 ppbv

RT: 14.67 min Scan# 3696

Delta R.T. 0.01 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

ClientSampled :

IA-1REDL

Tot Ion: 105 Resp: 2061

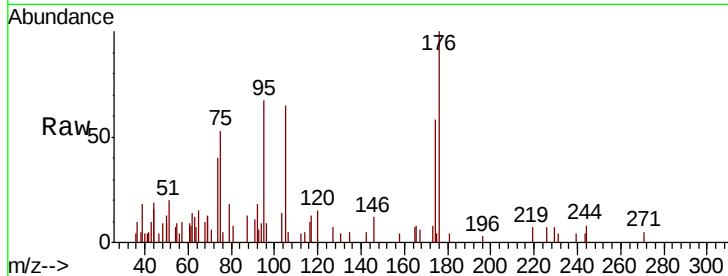
Ion Ratio Lower Upper

105 100

120 0.0 21.6 32.4#

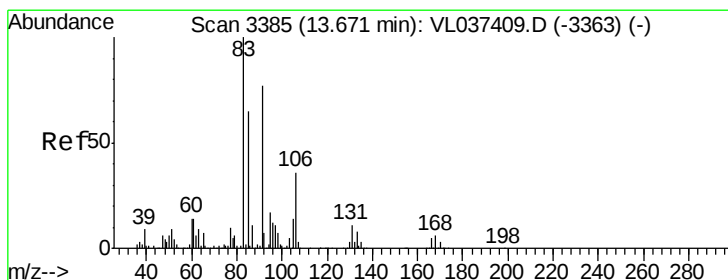
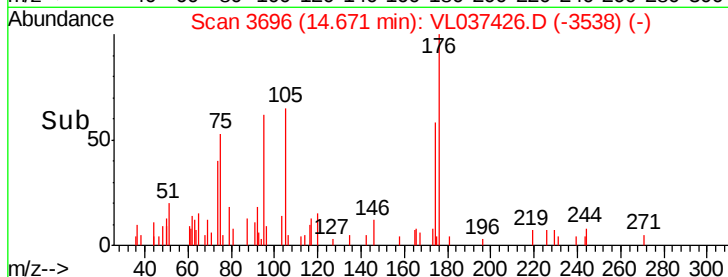
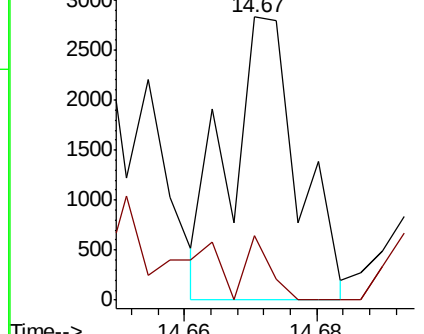
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.001 ppbv

RT: 13.67 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

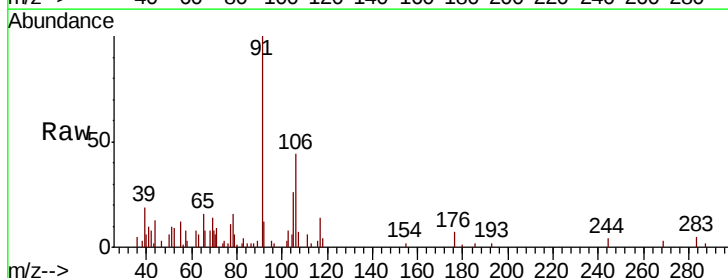
Tgt Ion: 83 Resp: 274

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

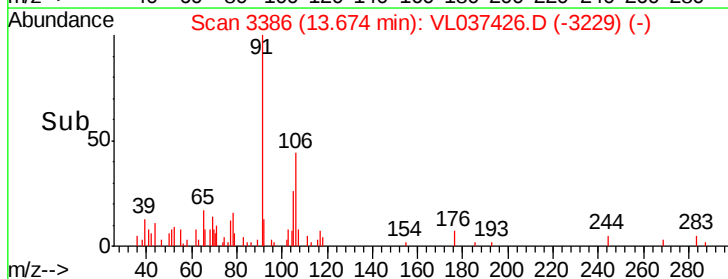
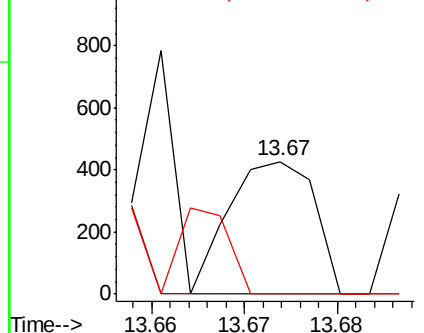
85 0.0 33.4 100.2#

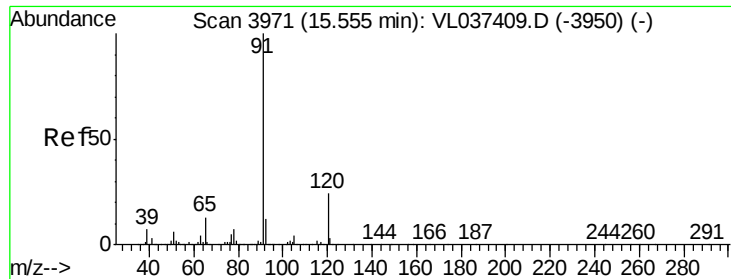


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.006 ppbv

RT: 15.84 min Scan# 4059

Delta R.T. 0.28 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

ClientSampled :

IA-1REDL

Tot Ion:120 Resp: 760

Ion Ratio Lower Upper

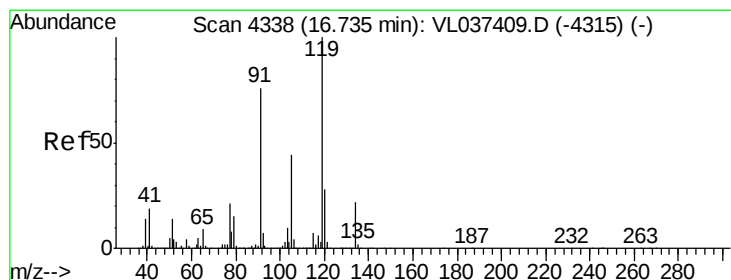
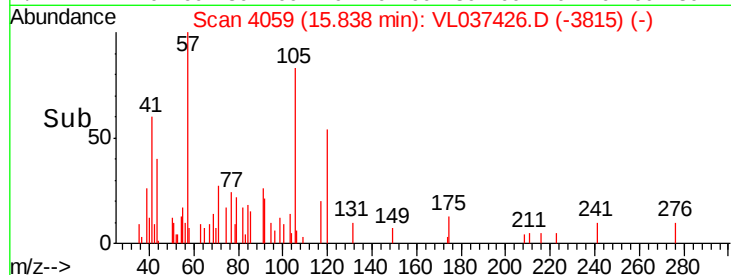
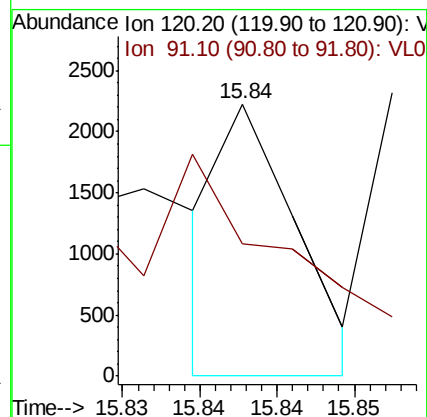
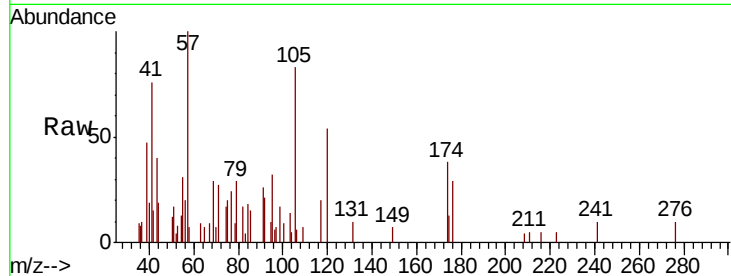
120 100

91 496.1 388.4 582.6

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#65

tert-Butylbenzene

Concen: 0.002 ppbv

RT: 16.73 min Scan# 4338

Delta R.T. 0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

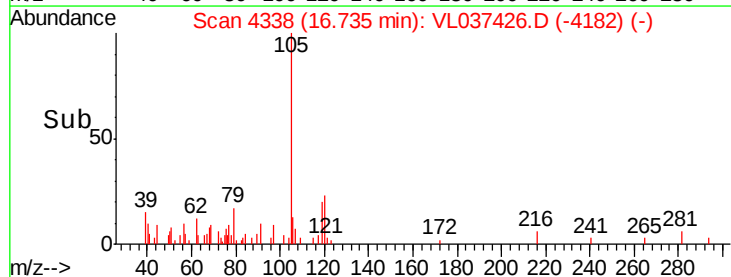
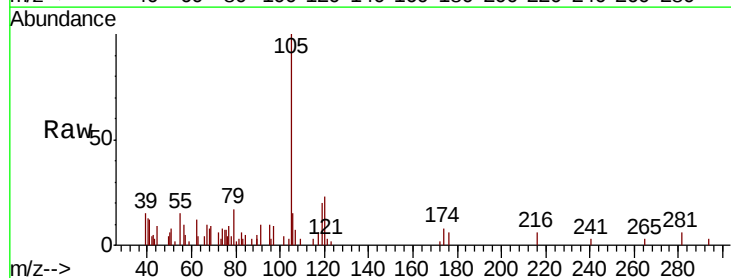
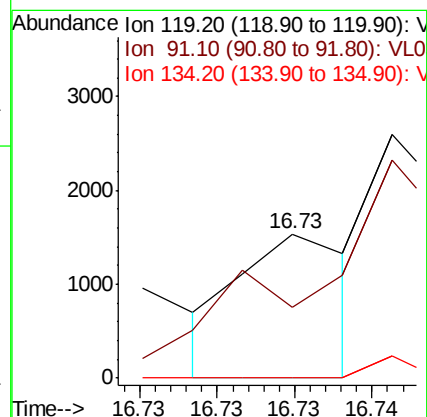
Tgt Ion:119 Resp: 765

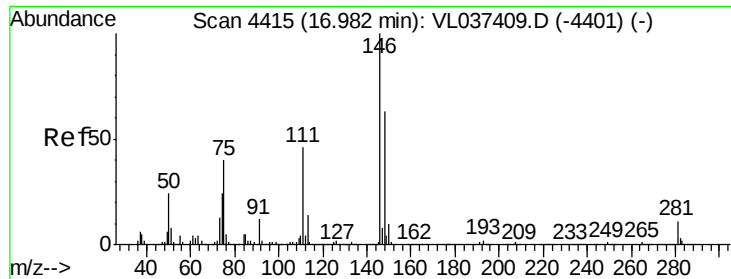
Ion Ratio Lower Upper

119 100

91 0.0 62.2 93.4#

134 0.0 16.1 24.1#





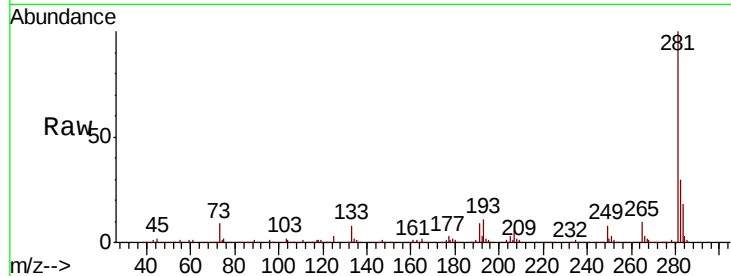
#66
Benzyl Chloride
Concen: 0.011 ppbv
RT: 16.98 min Scan# 4415
Delta R.T. 0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampleId :
IA-1REDL

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

Manual Integrations
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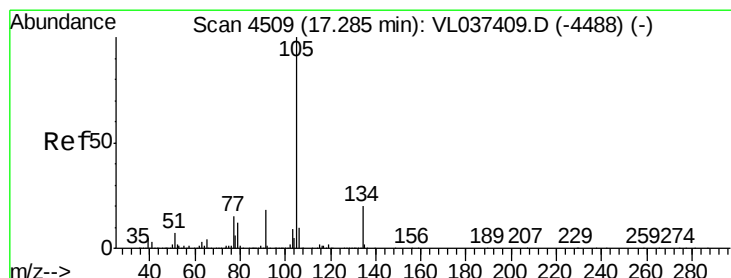
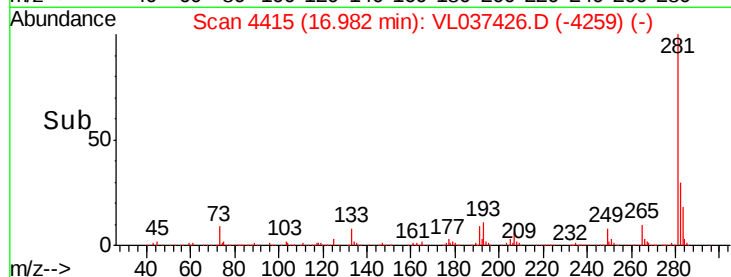
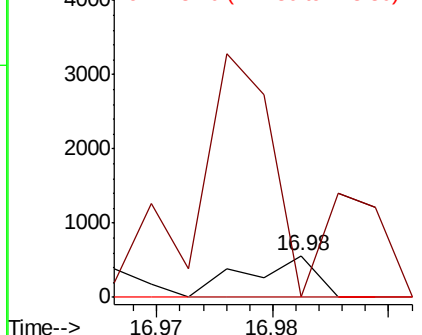
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Abundance Ion 91.10 (90.80 to 91.80): VL037409.D (-4401) (-)

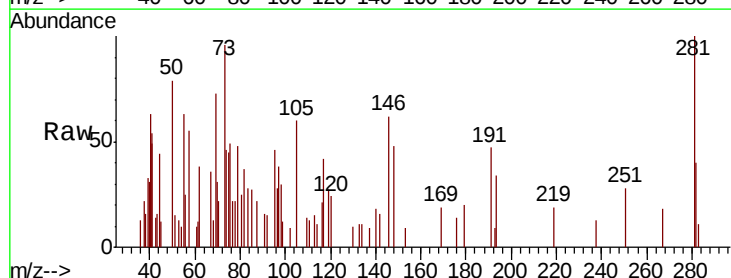
Ion 126.10 (125.80 to 126.80): VL037409.D (-4401) (-)

Ion 128.10 (127.80 to 128.80): VL037409.D (-4401) (-)



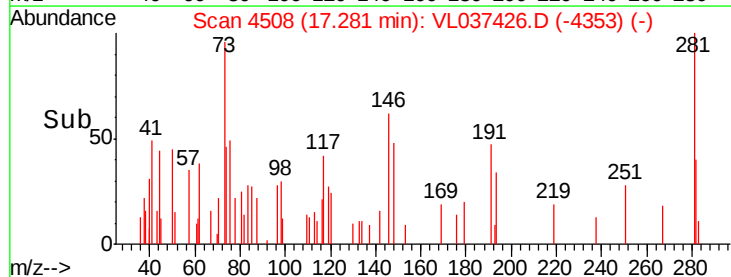
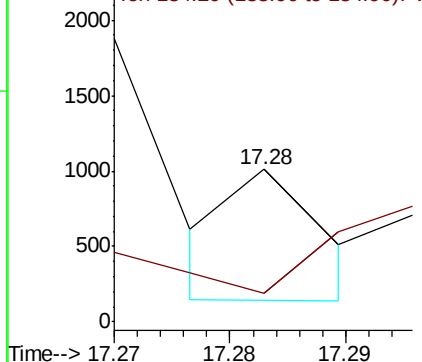
#67
sec-Butylbenzene
Concen: 0.000 ppbv
RT: 17.28 min Scan# 4508
Delta R.T. -0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

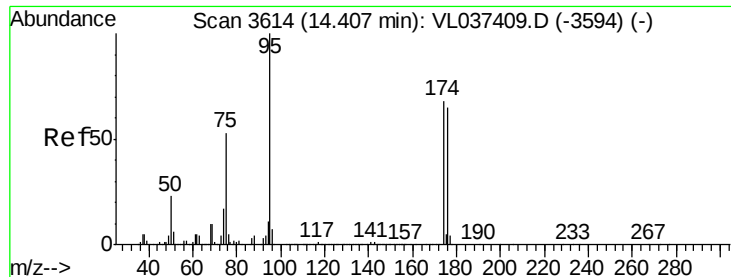
Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.0	15.4	23.0#



Abundance Ion 105.10 (104.80 to 105.80): VL037409.D (-4488) (-)

Ion 134.20 (133.90 to 134.90): VL037409.D (-4488) (-)





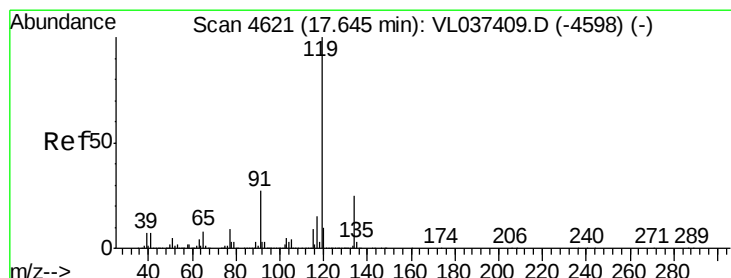
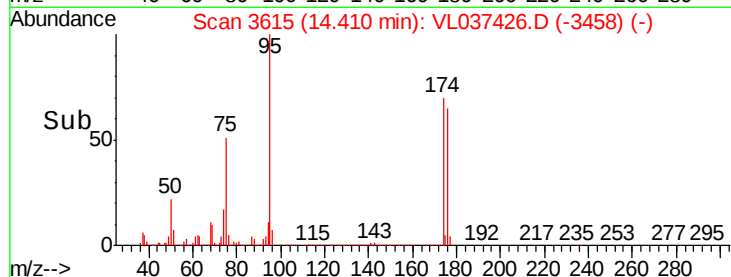
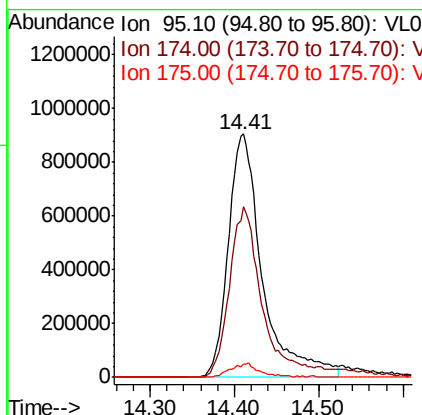
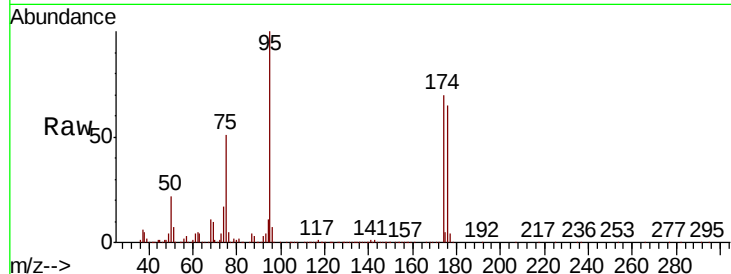
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.464 ppbv
 RT: 14.41 min Scan# 3615
 Delta R.T. 0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1REDL

Tot Ion: 95 Resp: 2544840
 Ion Ratio Lower Upper
 95 100
 174 72.1 59.6 89.4
 175 5.0 4.3 6.5

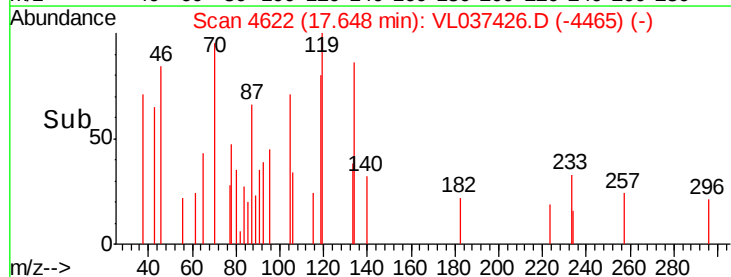
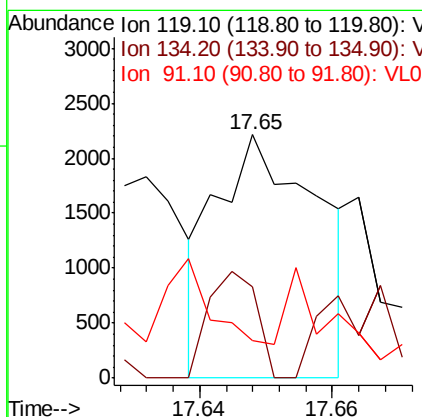
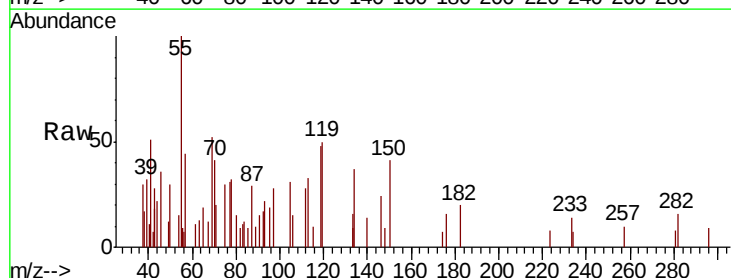
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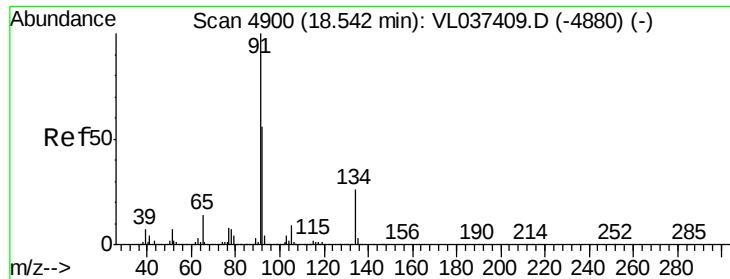
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#69
 p-Isopropyltoluene
 Concen: 0.004 ppbv
 RT: 17.65 min Scan# 4622
 Delta R.T. 0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Tgt Ion: 119 Resp: 2354
 Ion Ratio Lower Upper
 119 100
 134 46.6 20.6 31.0#
 91 106.4 22.4 33.6#





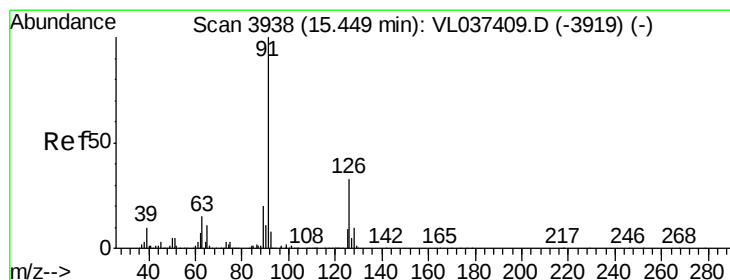
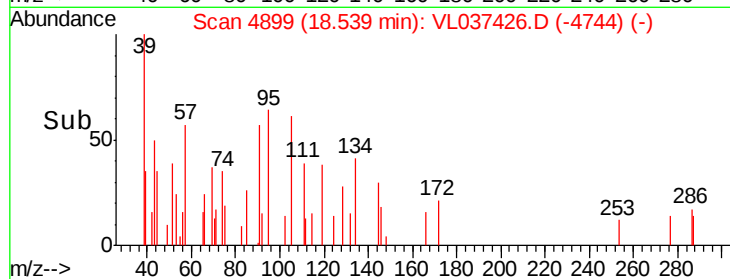
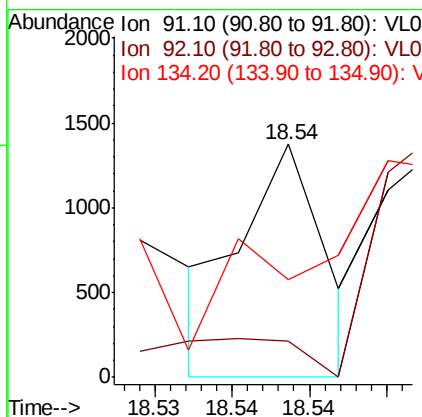
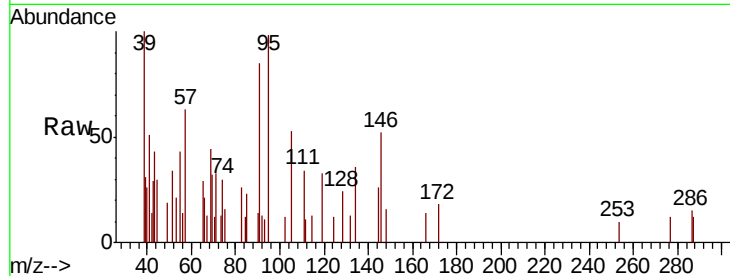
#70
n-Butylbenzene
Concen: 0.001 ppbv
RT: 18.54 min Scan# 4899
Delta R.T. -0.00 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Instrument :
MSVOA_L
ClientSampled :
IA-1REDL

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	44.2	66.2#
134	0.0	19.5	29.3#

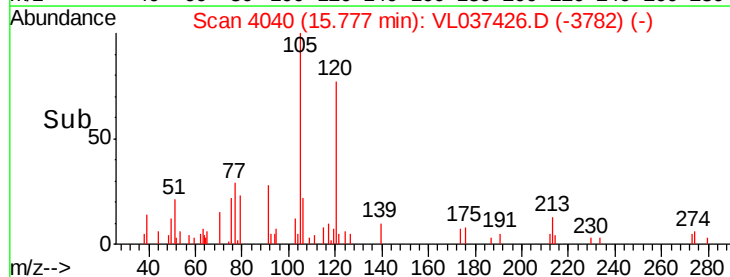
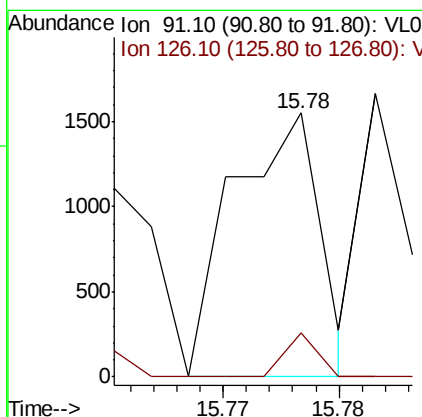
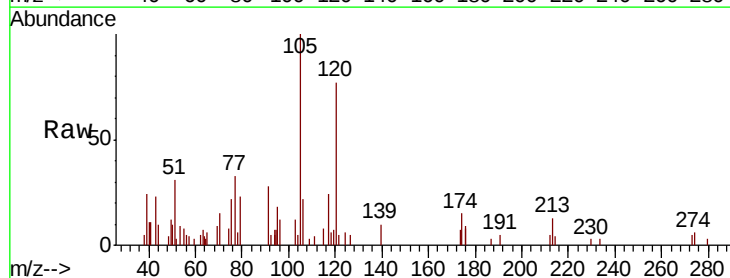
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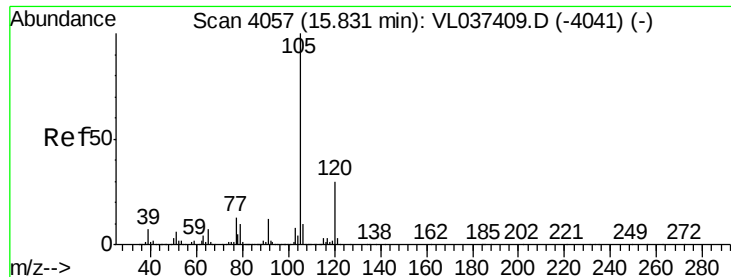
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#71
2-Chlorotoluene
Concen: 0.002 ppbv
RT: 15.78 min Scan# 4040
Delta R.T. 0.33 min
Lab File: VL037426.D
Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
91	100		
126	13.9	13.5	53.9





#72

4-Ethyltoluene

Concen: 0.004 ppbv

RT: 15.83 min Scan# 4058

Delta R.T. 0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

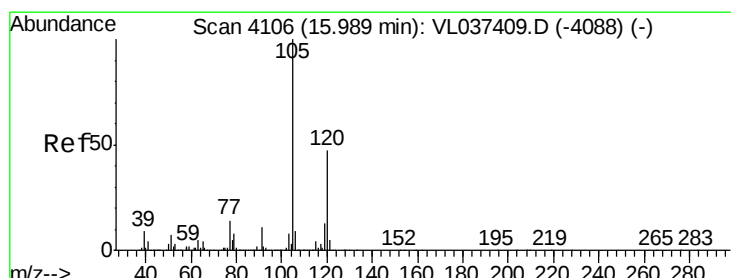
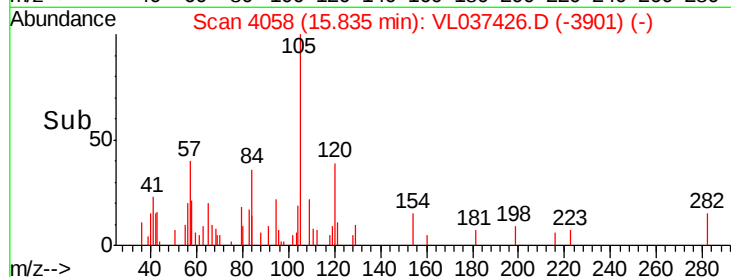
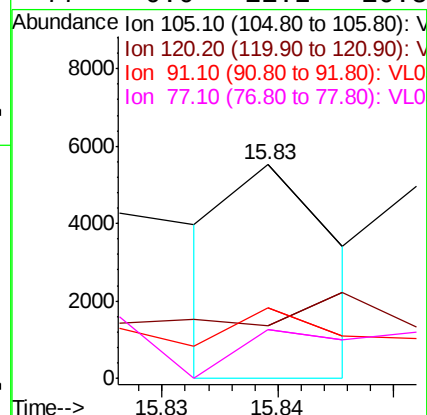
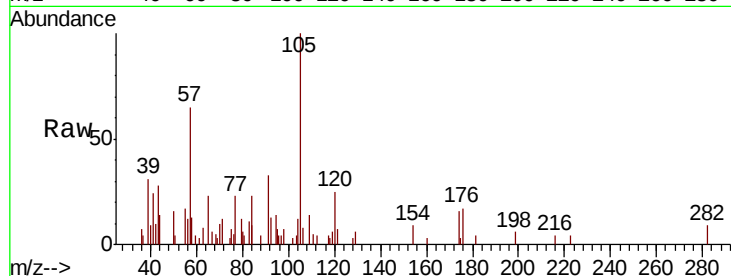
ClientSampleId :

IA-1REDL

Tot Ion:	105	Resp:	1723
Ion Ratio	Lower	Upper	
105	100		
120	0.0	25.0	37.4#
91	201.9	11.2	16.8#
77	0.0	11.2	16.8#

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#73

1,3,5-Trimethylbenzene

Concen: 0.017 ppbv

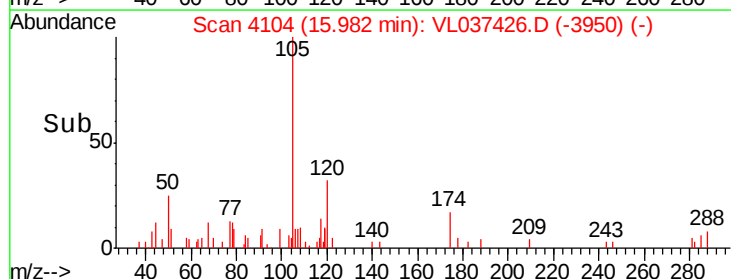
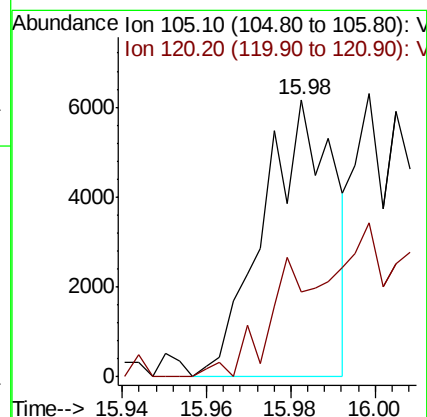
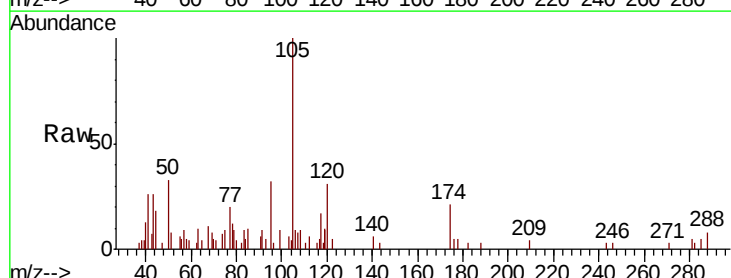
RT: 15.98 min Scan# 4104

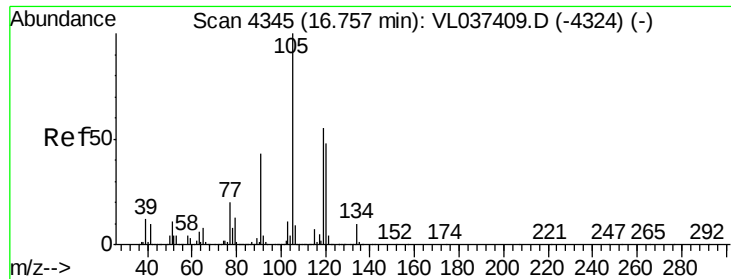
Delta R.T. -0.01 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Tgt Ion:	105	Resp:	7109
Ion Ratio	Lower	Upper	
105	100		
120	30.6	37.4	56.0#





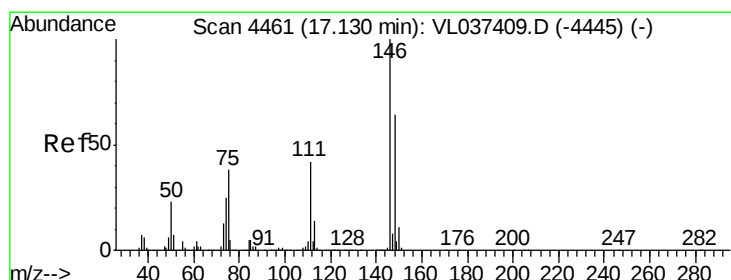
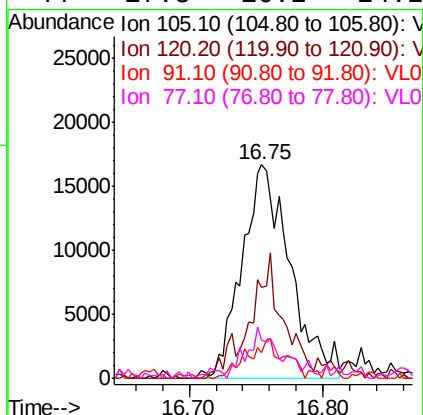
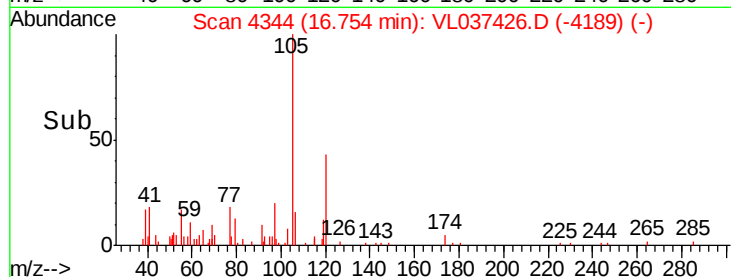
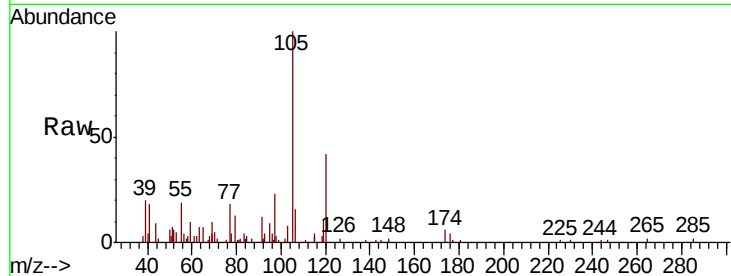
#74
 1,2,4-Trimethylbenzene
 Concen: 0.099 ppbv m
 RT: 16.75 min Scan# 4344
 Delta R.T. -0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1REDL

Tot Ion	Ratio	Lower	Upper
105	100		
120	42.3	38.2	57.2
91	12.1	35.4	53.2
77	17.8	16.2	24.2

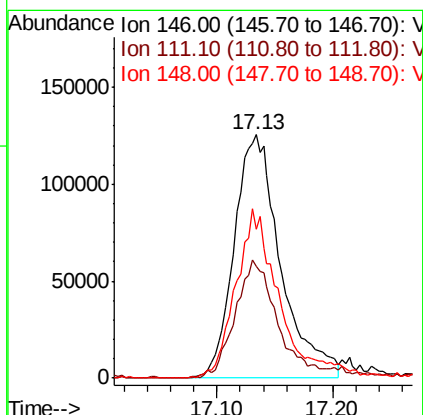
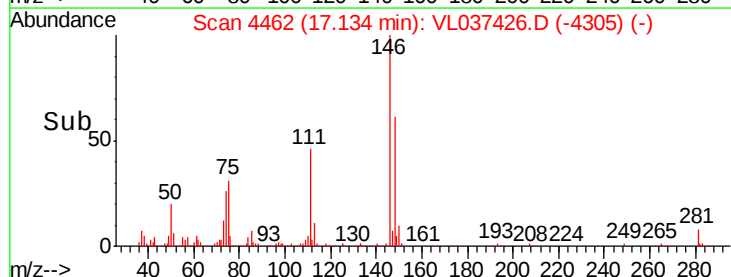
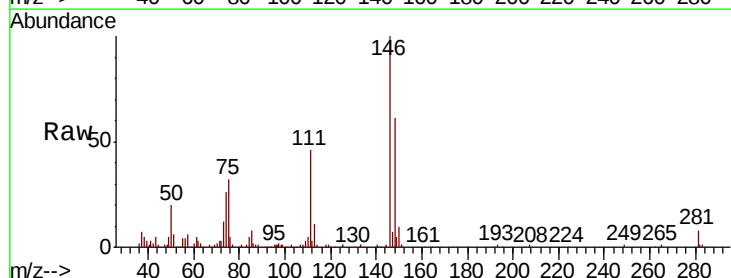
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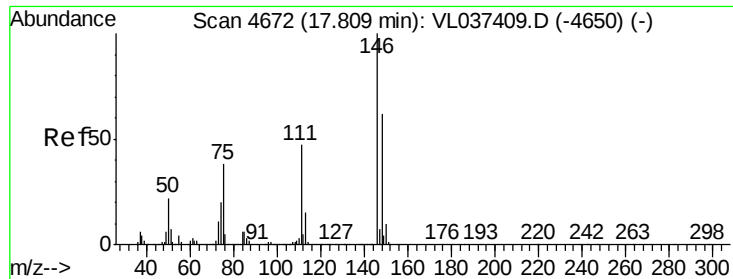
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#76
 1,4-Dichlorobenzene
 Concen: 1.364 ppbv
 RT: 17.13 min Scan# 4462
 Delta R.T. 0.00 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.6	22.8	68.4
148	65.7	34.0	102.0





#77

1,2-Dichlorobenzene

Concen: 0.004 ppbv

RT: 17.81 min Scan# 4673

Delta R.T. 0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

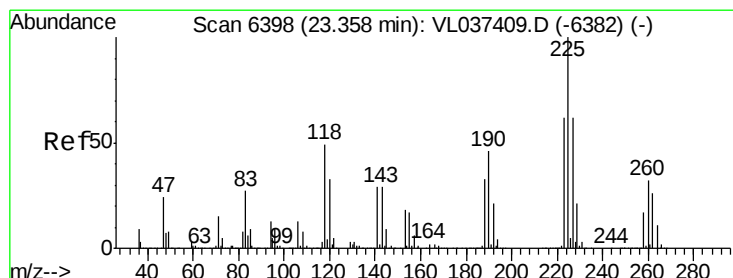
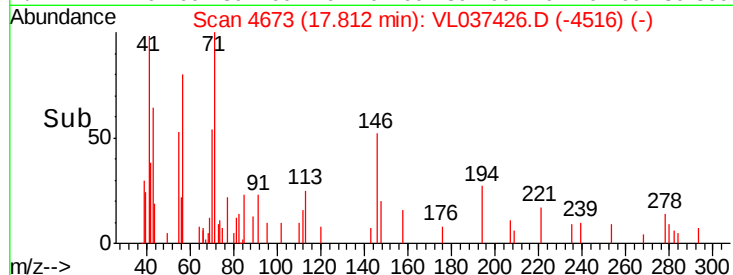
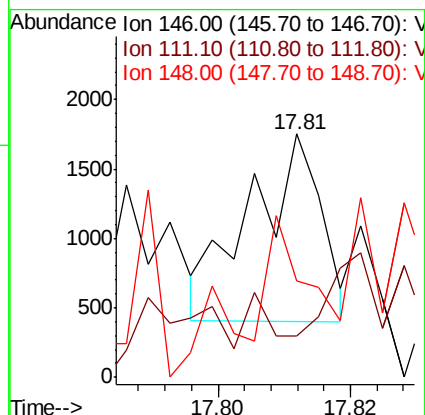
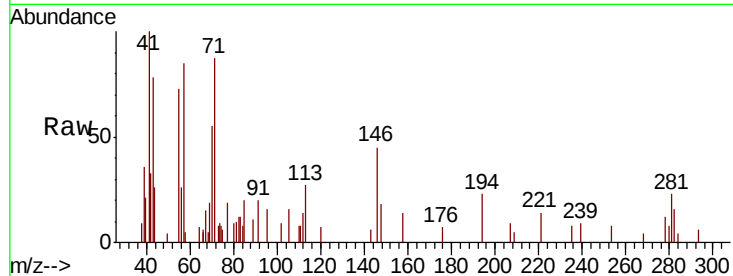
ClientSampleId :

IA-1REDL

Tot Ion:	146	Resp:	1000
Ion Ratio	Lower	Upper	
146	100		
111	0.0	23.8	71.5#
148	0.0	32.5	97.4#

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#78

Hexachloro-1,3-Butadiene

Concen: 0.000 ppbv

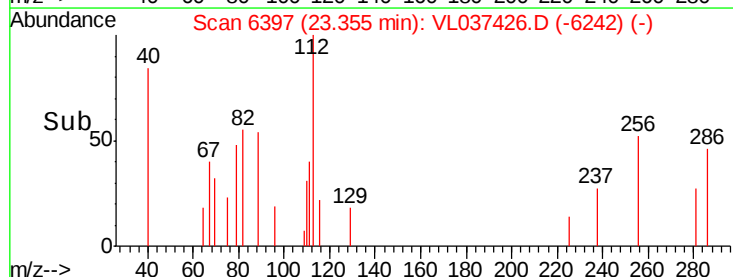
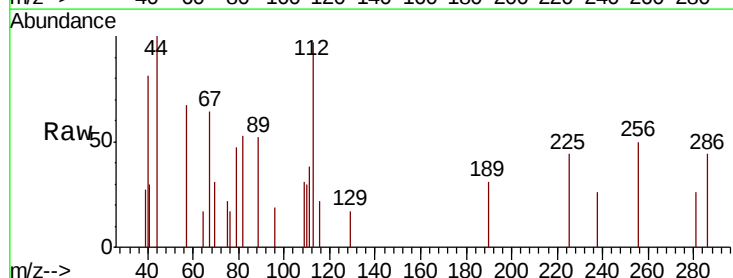
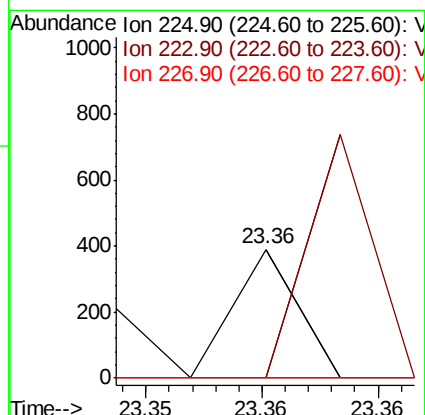
RT: 23.36 min Scan# 6397

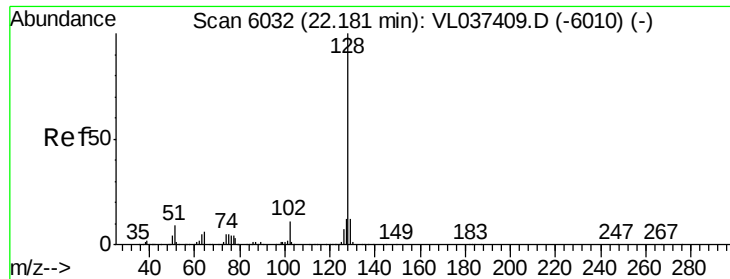
Delta R.T. -0.00 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Tgt Ion:	225	Resp:	75
Ion Ratio	Lower	Upper	
225	100		
223	0.0	51.2	76.8#
227	0.0	52.2	78.4#





#79

Naphthalene

Concen: 0.007 ppbv

RT: 22.19 min Scan# 6034

Delta R.T. 0.01 min

Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Instrument :

MSVOA_L

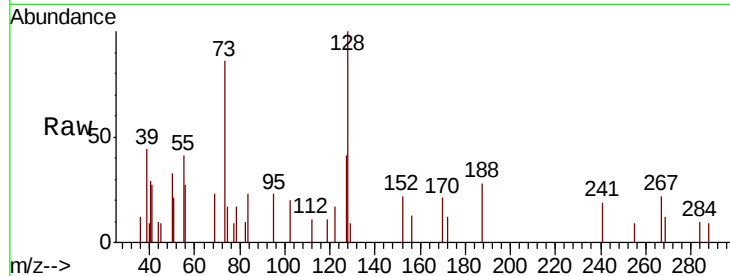
ClientSampleId :

IA-1REDL

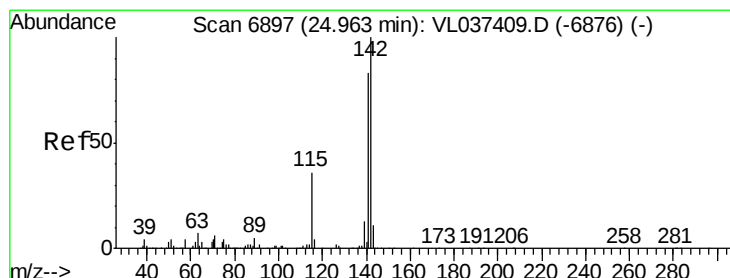
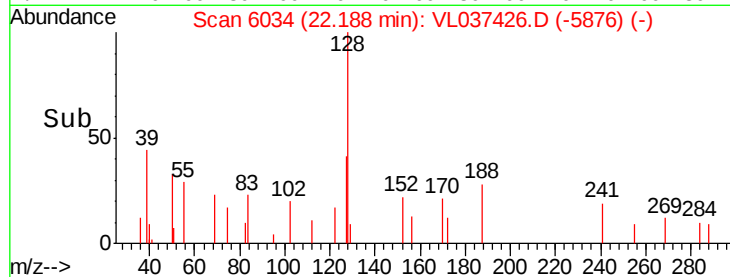
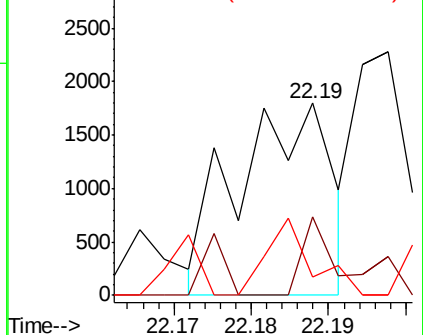
Tot Ion:	128	Resp:	1524
Ion Ratio	Lower	Upper	
128	100		
127	47.7	9.9	14.9#
129	0.0	9.4	14.0#

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.003 ppbv

RT: 24.92 min Scan# 6884

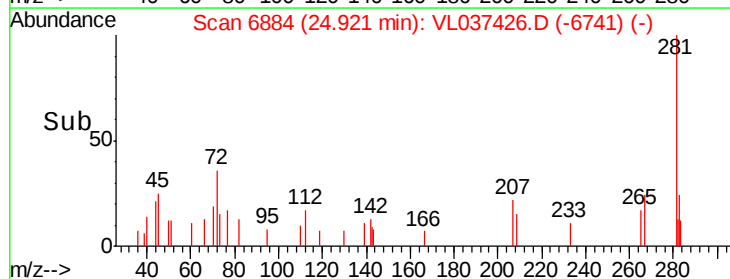
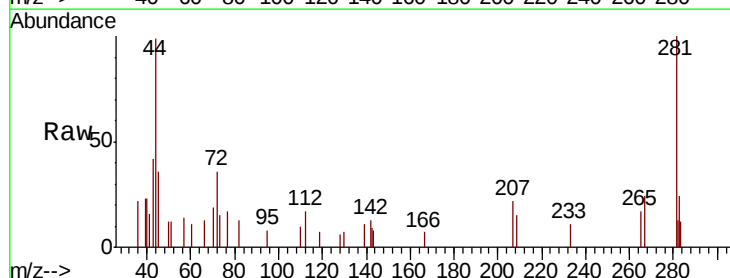
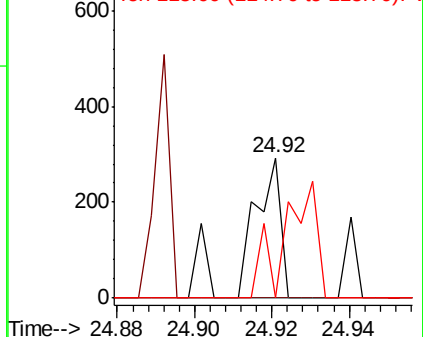
Delta R.T. -0.04 min

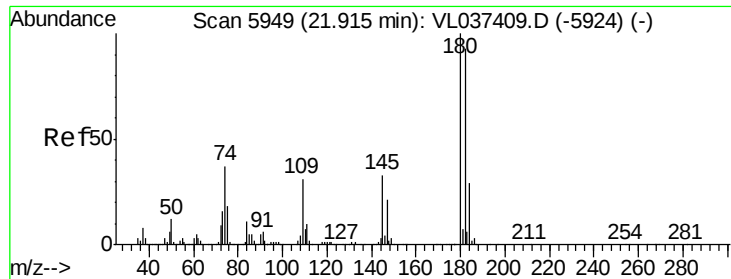
Lab File: VL037426.D

Acq: 12 Aug 2021 23:23

Tgt Ion:	142	Resp:	160
Ion Ratio	Lower	Upper	
142	100		
141	0.0	68.7	103.1#
115	91.3	32.7	49.1#

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





#81
 1,2,4-Trichlorobenzene
 Concen: 0.003 ppbv
 RT: 21.93 min Scan# 5955
 Delta R.T. 0.02 min
 Lab File: VL037426.D
 Acq: 12 Aug 2021 23:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1REDL

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.6	78.6	118.0
184	30.4	24.6	36.8

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