

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
 Data File : VL037407.D
 Acq On : 12 Aug 2021 2:29
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
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 8/12/2021 10:16:24 AM

Quant Time: Aug 12 04:42:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 11 2021
 QLast Update : Wed Aug 11 09:01:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	370388	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1141774	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1010338	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	668192	8.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	843445	12.598	ppbv	95
3) Chlorodifluoromethane	2.99	51	713087	10.354	ppbv	97
4) Chloromethane	3.14	50	249688	9.844	ppbv	94
5) Vinyl Chloride	3.25	62	268273	10.353	ppbv	92
6) Bromomethane	3.47	94	147030	10.351	ppbv	87
7) Chloroethane	3.56	64	112555	12.685	ppbv #	87
8) Dichlorotetrafluoroethane	3.19	85	630987	10.804	ppbv	97
9) Propene	3.00	41	229333	9.781	ppbv	98
10) Heptane	8.12	43	617257m	11.130	ppbv	
11) Trichlorofluoromethane	3.95	101	818731	14.546	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	647841	16.172	ppbv	95
13) Ethanol	3.62	45	16368m	5.783	ppbv	
14) Bromoethene	3.74	108	248811	13.579	ppbv	97
15) Acetone	3.86	43	386264	10.946	ppbv	97
16) 1,3-Butadiene	3.32	39	245226	9.892	ppbv	92
17) tert-Butyl alcohol	4.32	59	44026m	1.395	ppbv	
18) 1,1-Dichloroethene	4.29	96	275410	15.173	ppbv	99
19) Isopropyl Alcohol	3.99	45	61005m	3.003	ppbv	
20) Methylene Chloride	4.34	84	244550	12.762	ppbv	94
21) Allyl Chloride	4.41	41	362499	13.096	ppbv	88
22) trans-1,2-Dichloroethene	4.88	96	276464	16.117	ppbv	94
23) Vinyl Acetate	5.07	43	596662	10.520	ppbv #	97
24) 1,1-Dichloroethane	5.01	63	566230	12.693	ppbv	99
25) Ethyl Acetate	5.68	43	905378	10.021	ppbv #	98
26) Hexane	5.68	57	459464	10.042	ppbv	93
27) Carbon Disulfide	4.55	76	692198	18.052	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	561371	11.489	ppbv	99
29) Chloroform	5.75	83	685287	10.445	ppbv	100
30) Cyclohexane	7.13	84	386119	10.195	ppbv	96
31) cis-1,2-Dichloroethene	5.54	61	431723	10.530	ppbv	94
32) 1,1,1-Trichloroethane	6.51	97	654646	10.291	ppbv	97
34) 2-Butanone	5.25	43	380431	8.769	ppbv	95
35) Carbon Tetrachloride	7.01	117	683045	10.727	ppbv	99
36) Benzene	6.89	78	960957	10.606	ppbv	99
37) 1,2-Dichloroethane	6.30	62	459404	9.912	ppbv	100
38) Trichloroethene	7.83	130	386586	10.021	ppbv	95
39) 1,2-Dichloropropane	7.61	63	350445	10.580	ppbv	97
40) 1,4-Dioxane	7.91	88	3699m	0.419	ppbv	
41) Tetrahydrofuran	6.05	42	191250m	9.378	ppbv	
42) Bromodichloromethane	7.78	83	687329	10.491	ppbv	99
43) Methyl Methacrylate	8.01	69	296078	9.389	ppbv	98

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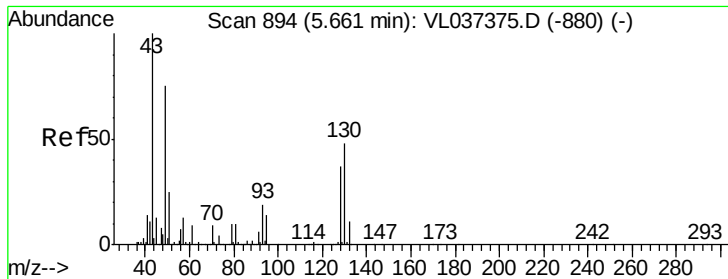
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	1631376	10.794	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	172991m	7.307	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	249810	7.800	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	380303	10.188	ppbv	94
48) Dibromochloromethane	10.30	129	587209	10.666	ppbv	99
49) Bromoform	13.04	173	431186	9.967	ppbv	96
50) 4-Methyl-2-Pentanone	8.76	43	338664m	5.975	ppbv	
51) 2-Hexanone	10.20	43	8537m	0.340	ppbv	
52) Tetrachloroethene	11.22	164	356561	9.654	ppbv	98
53) Toluene	9.80	91	1121508	10.673	ppbv	99
54) 1,2-Dibromoethane	10.61	107	496401	9.394	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	447510	11.458	ppbv #	57
57) Chlorobenzene	12.14	112	792830	10.168	ppbv	95
58) Ethyl Benzene	12.70	91	1435453	10.644	ppbv	95
59) m/p-Xylene	12.99	91	2341352m	20.166	ppbv	
60) o-Xylene	13.69	91	1090766	10.133	ppbv	97
61) Styrene	13.52	104	503137	9.023	ppbv	97
62) Isopropylbenzene	14.66	105	1007692	6.646	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.67	83	339488	4.171	ppbv	97
64) n-propylbenzene	15.55	120	100525m	2.612	ppbv	
65) tert-Butylbenzene	16.74	119	65487m	0.479	ppbv	
66) Benzyl Chloride	17.00	91	3729m	0.643	ppbv	
67) sec-Butylbenzene	17.30	105	42736m	0.227	ppbv	
69) p-Isopropyltoluene	17.65	119	10400m	0.068	ppbv	
71) 2-Chlorotoluene	15.45	91	461057	4.165	ppbv	99
72) 4-Ethyltoluene	15.84	105	222449m	1.767	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	135955	1.164	ppbv	93
74) 1,2,4-Trimethylbenzene	16.77	105	54202m	0.457	ppbv	
75) 1,3-Dichlorobenzene	17.00	146	28591m	0.397	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	21917m	0.310	ppbv	
77) 1,2-Dichlorobenzene	17.83	146	6126m	0.088	ppbv	

(#) = 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: VL037407.D

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MSVOA_L

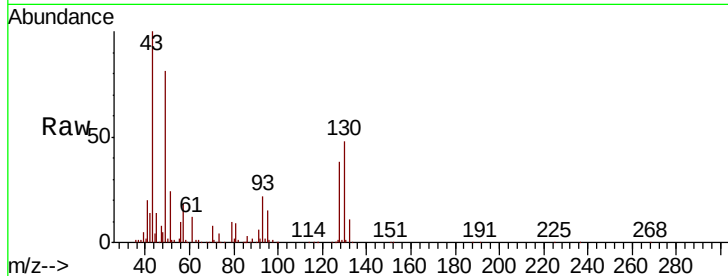
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	57.7	28.1	84.4
130	72.1	34.3	102.8

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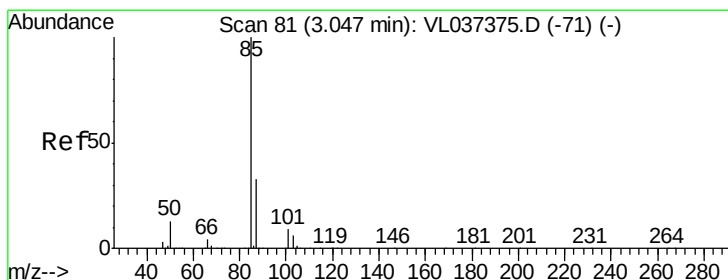
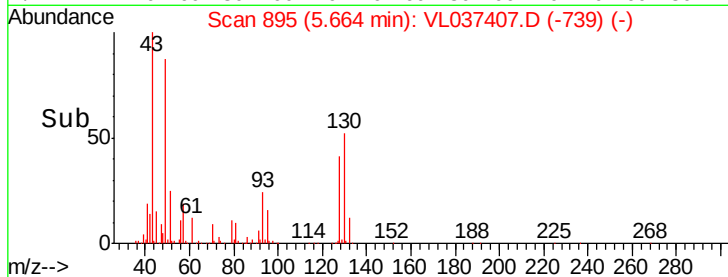
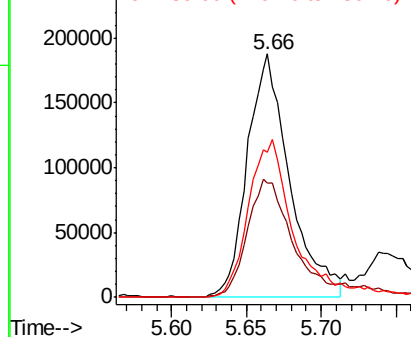


Abundance

Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 12.598 ppbv

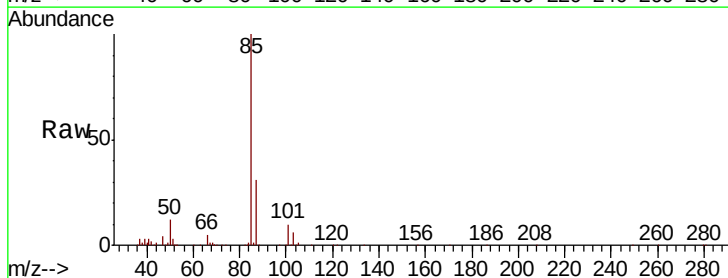
RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

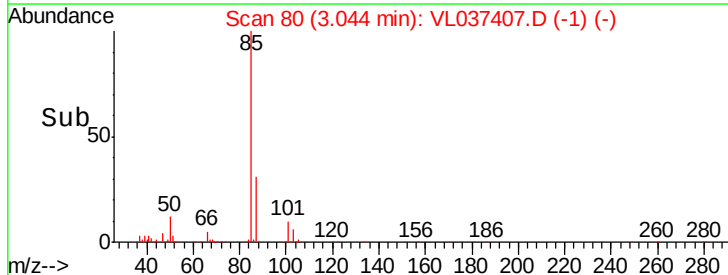
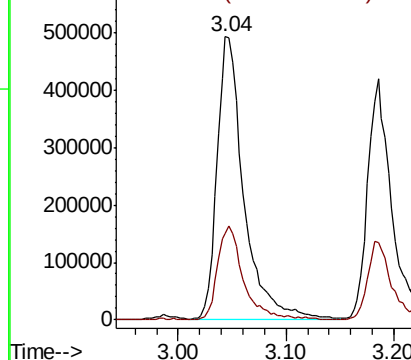
Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.6	26.6	39.8

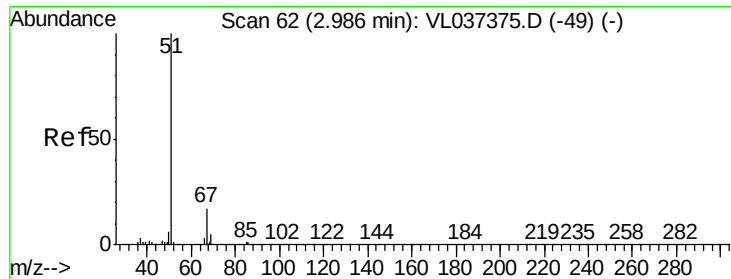


Abundance

Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.354 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Tot Ion	Ratio	Lower	Upper
51	100		
67	19.4	14.3	21.5

Instrument :

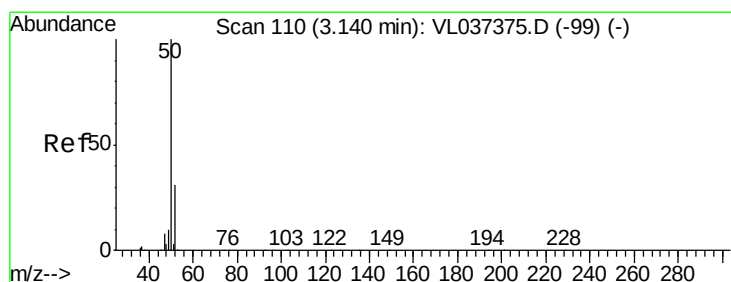
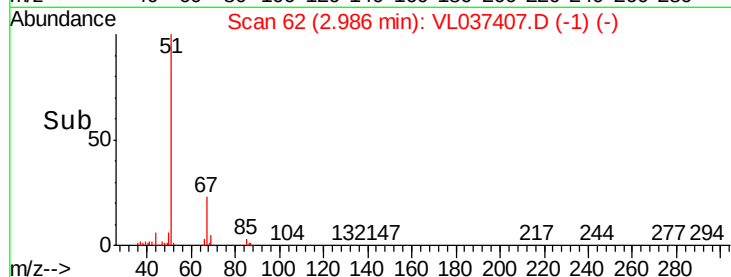
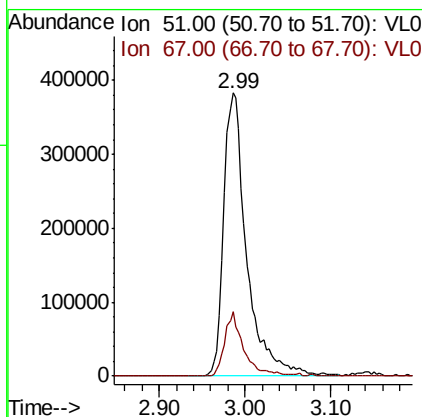
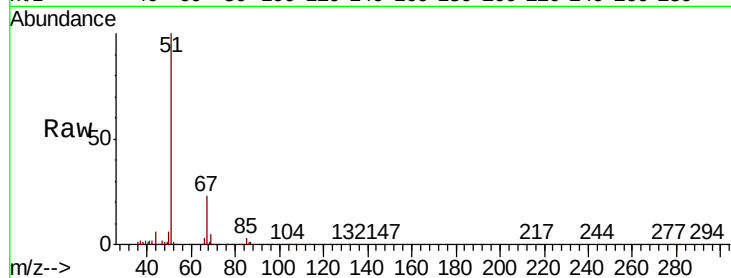
MSVOA_L

ClientSampleId :

VSTDCCC010EC

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#4

Chloromethane

Concen: 9.844 ppbv

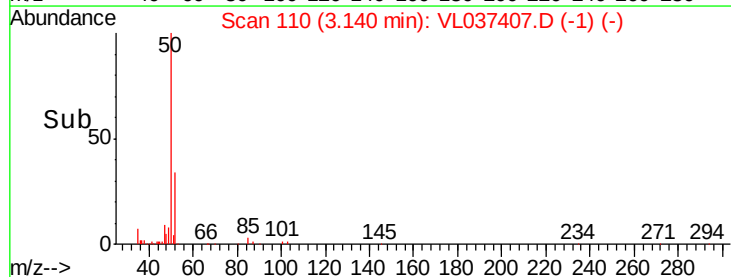
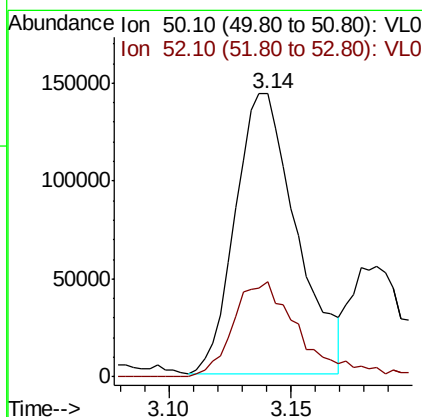
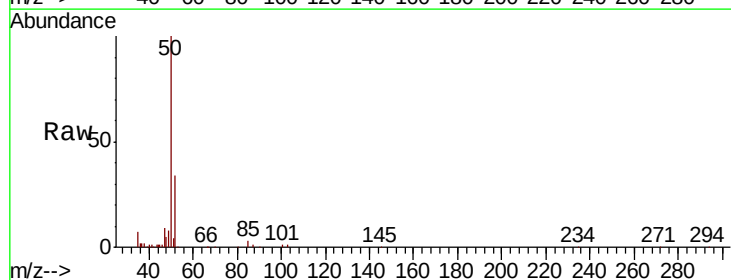
RT: 3.14 min Scan# 110

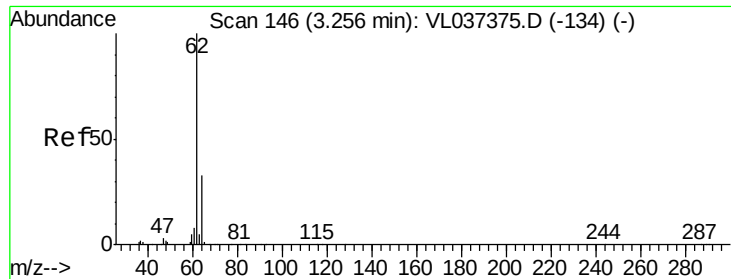
Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
50	100		
52	34.3	25.0	37.4





#5

Vinyl Chloride

Concen: 10.353 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

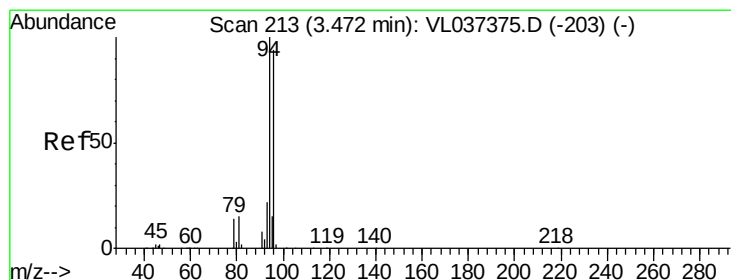
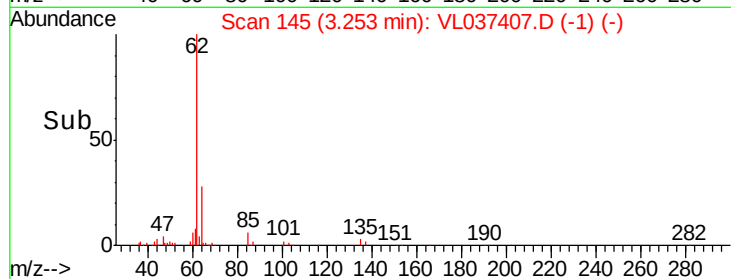
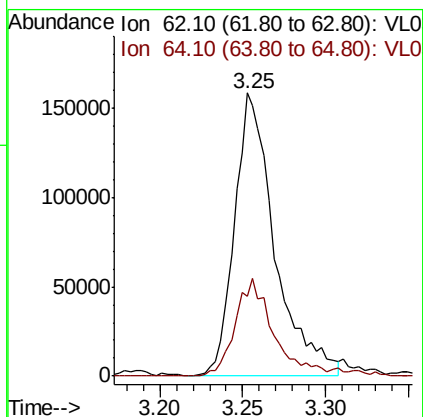
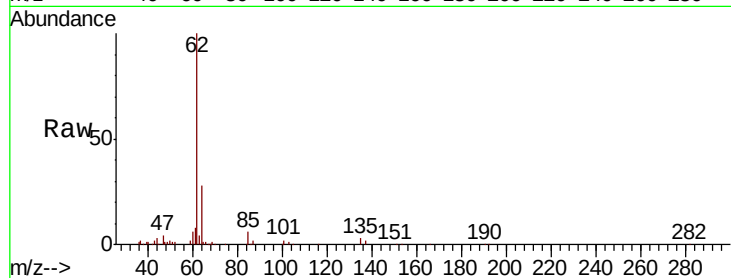
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
64	28.3	26.2	39.4

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#6

Bromomethane

Concen: 10.351 ppbv

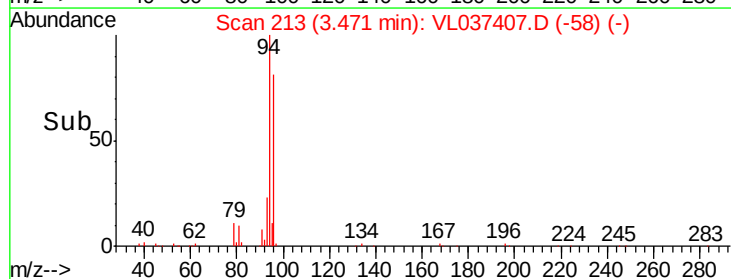
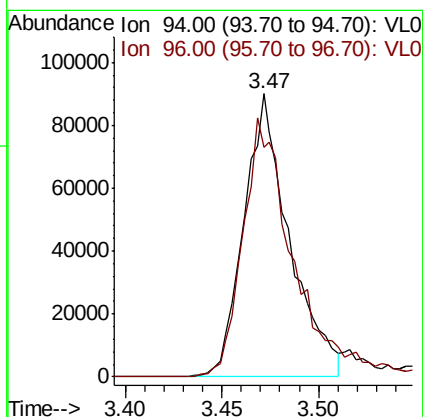
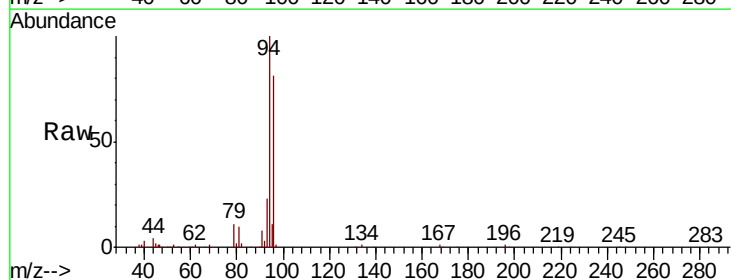
RT: 3.47 min Scan# 213

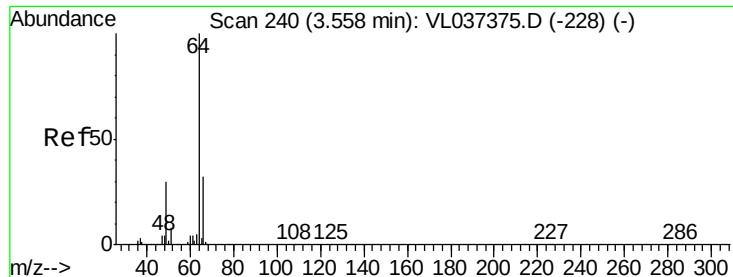
Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
94	100		
96	81.3	75.0	112.6





#7

Chloroethane

Concen: 12.685 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 112555

Ion Ratio Lower Upper

64 100

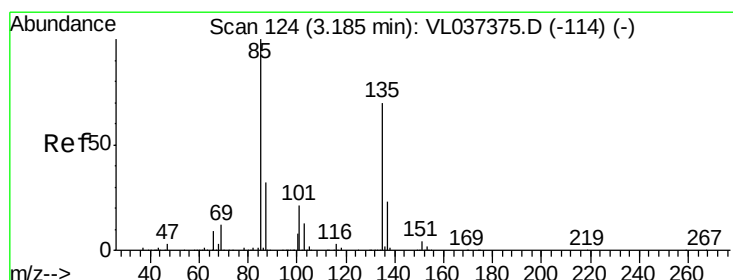
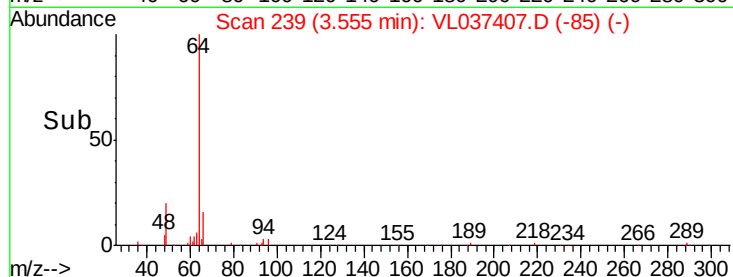
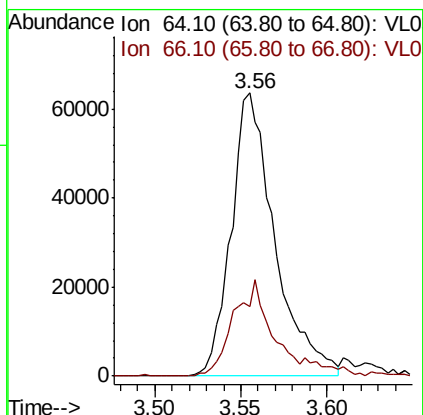
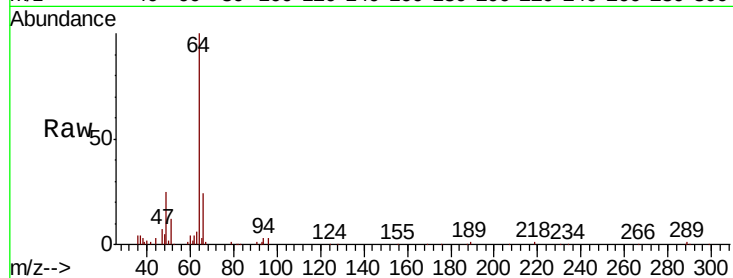
66 24.4 25.4 38.0#

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#8

Dichlorotetrafluoroethane

Concen: 10.804 ppbv

RT: 3.19 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL037407.D

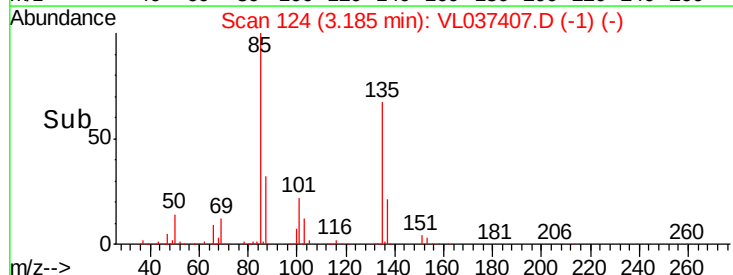
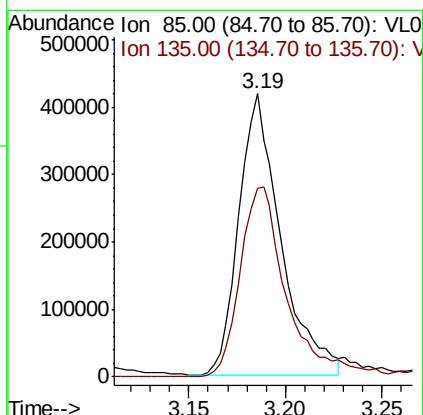
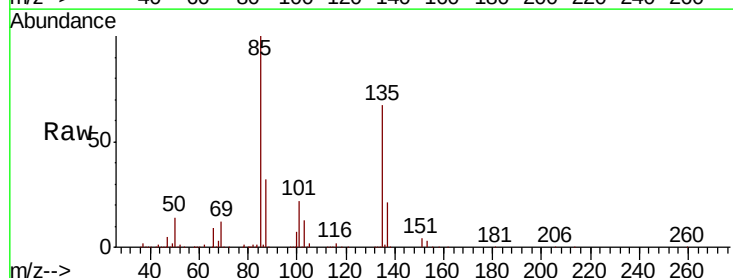
Acq: 12 Aug 2021 2:29

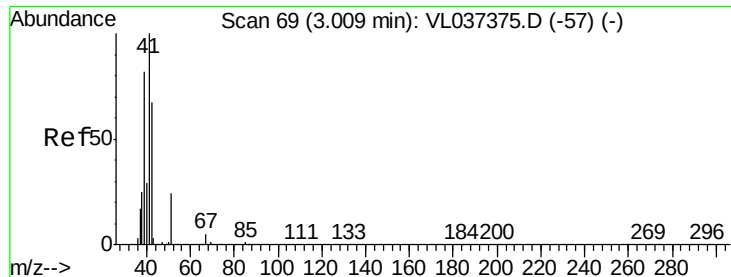
Tgt Ion: 85 Resp: 630987

Ion Ratio Lower Upper

85 100

135 77.2 59.8 89.6





#9

Propene

Concen: 9.781 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 229333

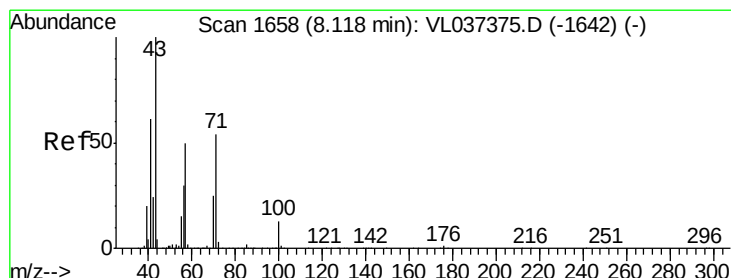
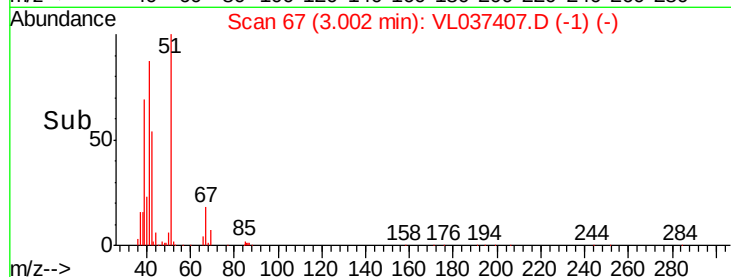
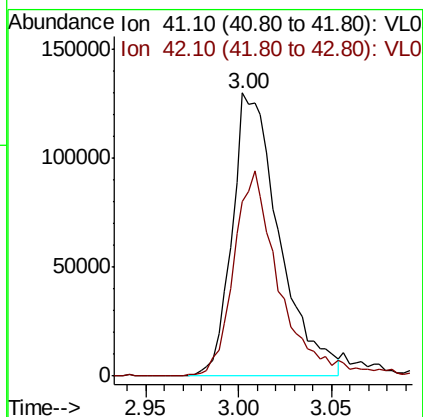
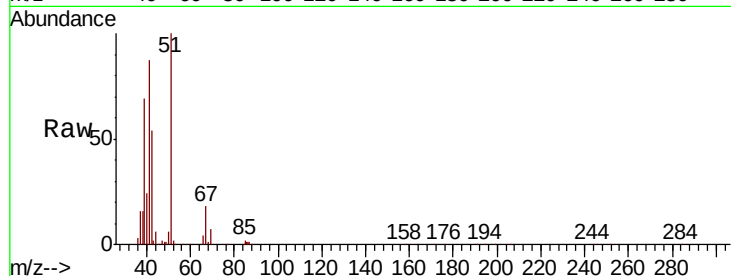
Ion Ratio Lower Upper

41 100

42 70.8 55.5 83.3

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#10

Heptane

Concen: 11.130 ppbv m

RT: 8.12 min Scan# 1658

Delta R.T. -0.00 min

Lab File: VL037407.D

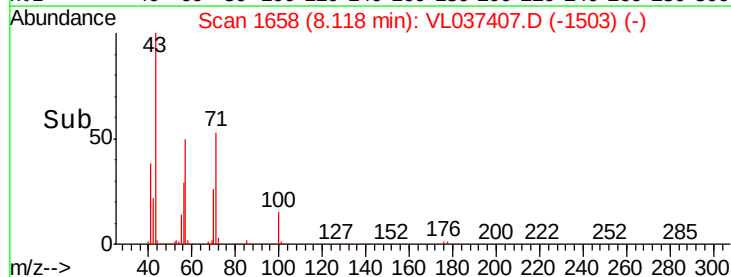
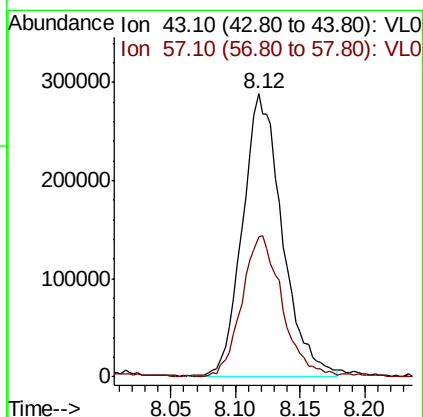
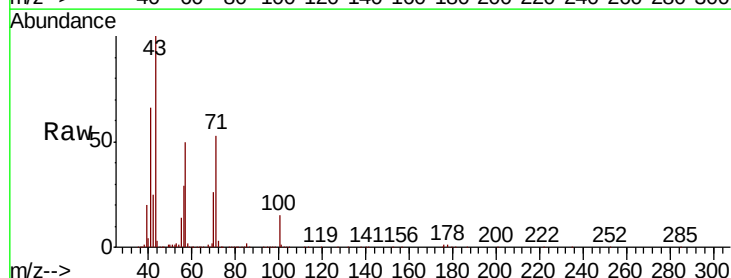
Acq: 12 Aug 2021 2:29

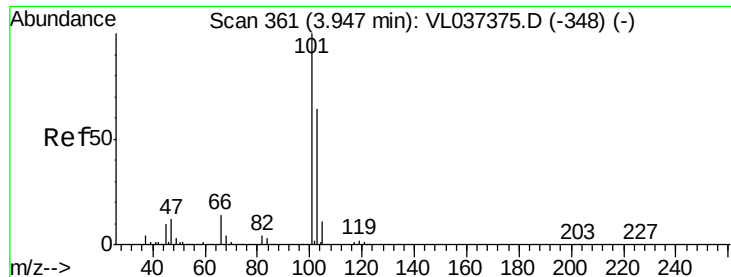
Tgt Ion: 43 Resp: 617257

Ion Ratio Lower Upper

43 100

57 50.8 40.2 60.2





#11

Trichlorofluoromethane

Concen: 14.546 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 818731

Ion Ratio Lower Upper

101 100

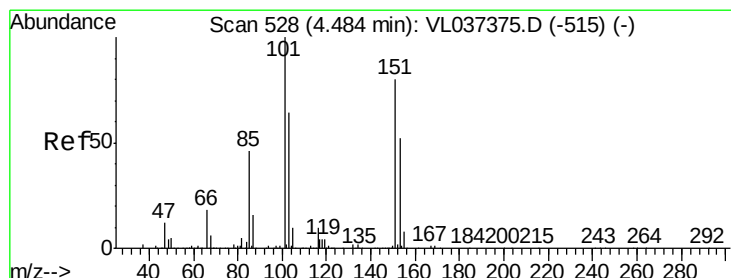
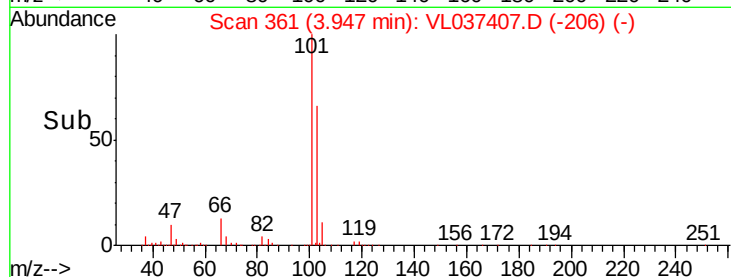
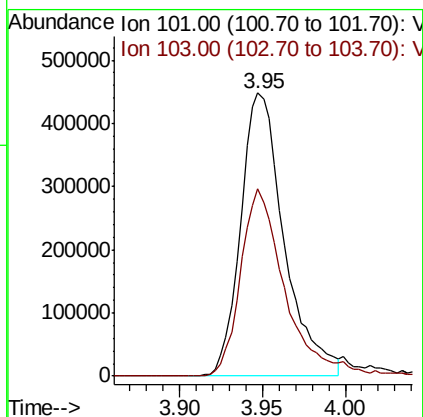
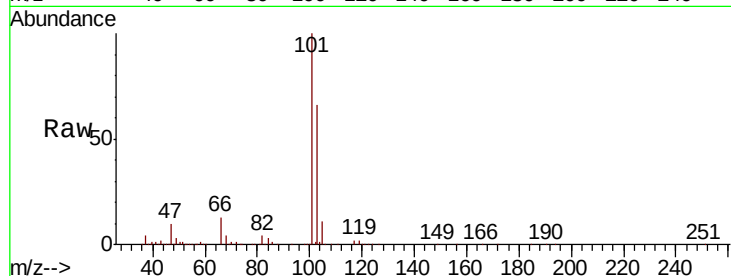
103 66.3 51.2 76.8

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 16.172 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.00 min

Lab File: VL037407.D

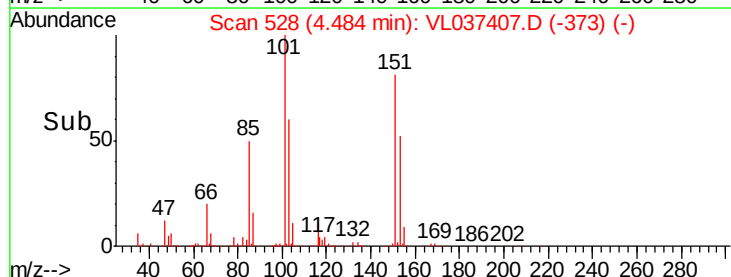
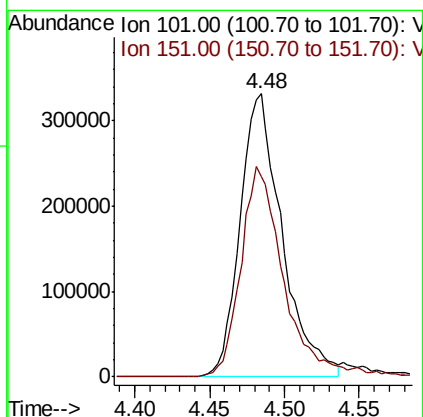
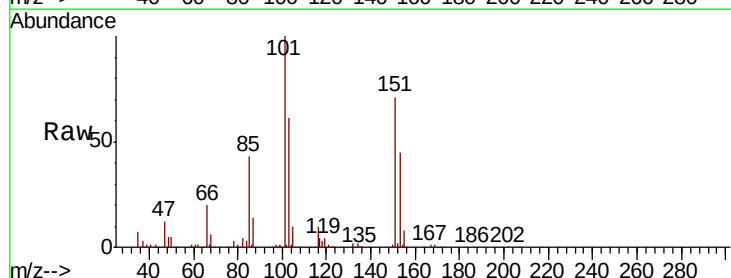
Acq: 12 Aug 2021 2:29

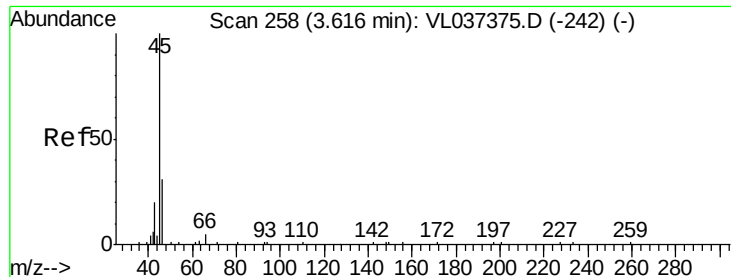
Tgt Ion:101 Resp: 647841

Ion Ratio Lower Upper

101 100

151 76.8 64.9 97.3





#13

Ethanol

Concen: 5.783 ppbv m

RT: 3.62 min Scan# 259

Delta R.T. 0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 16368

Ion Ratio Lower Upper

45 100

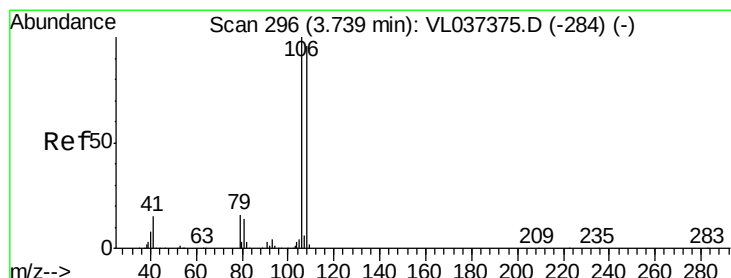
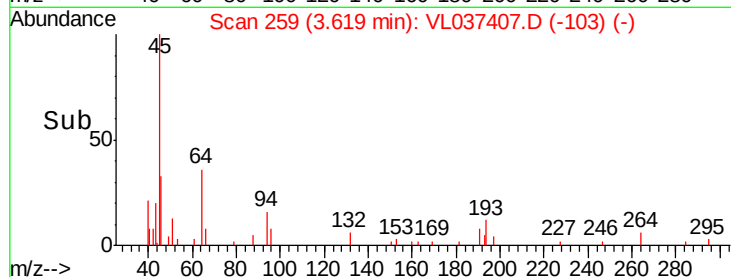
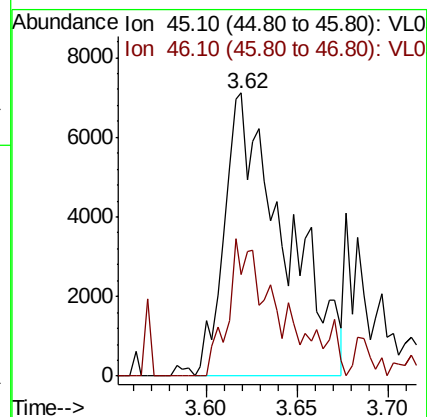
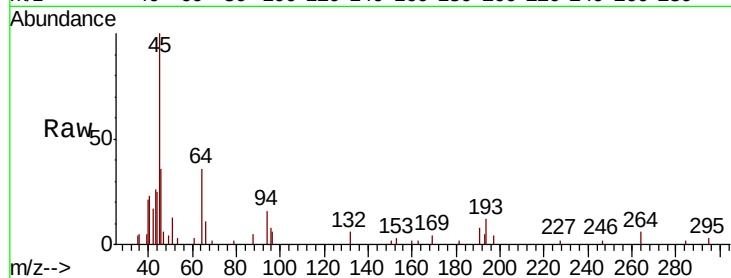
46 42.0 15.8 63.4

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#14

Bromoethene

Concen: 13.579 ppbv

RT: 3.74 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

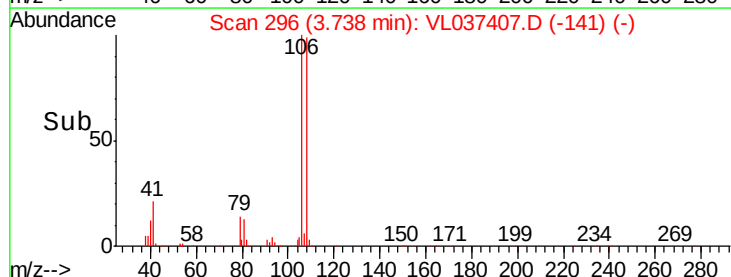
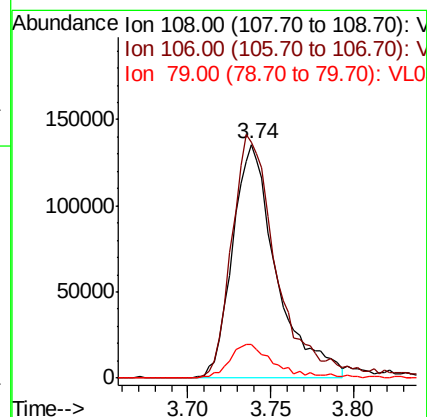
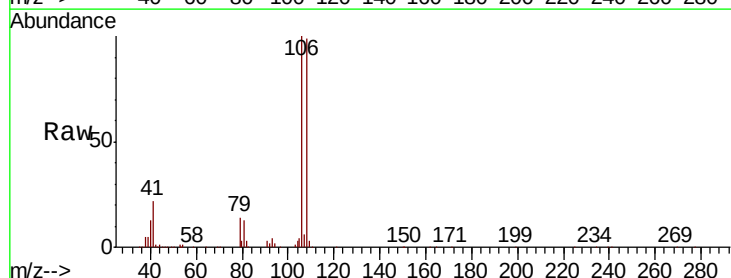
Tgt Ion: 108 Resp: 248811

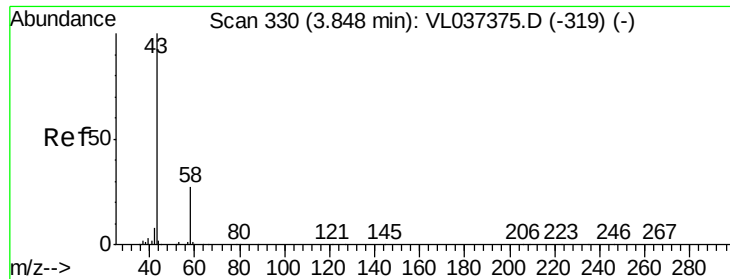
Ion Ratio Lower Upper

108 100

106 110.8 86.2 129.4

79 15.5 13.2 19.8





#15

Acetone

Concen: 10.946 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 386264

Ion Ratio Lower Upper

43 100

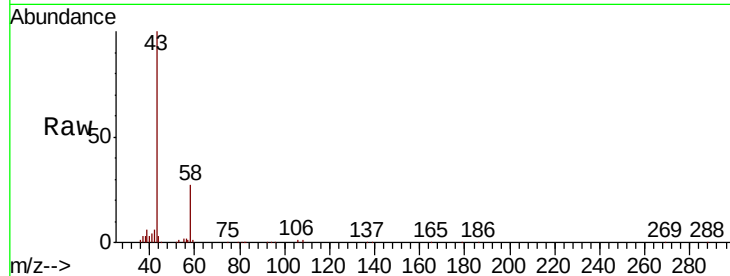
58 29.0 24.6 37.0

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

200000

150000

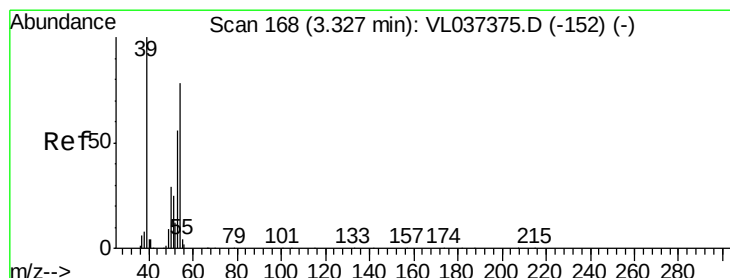
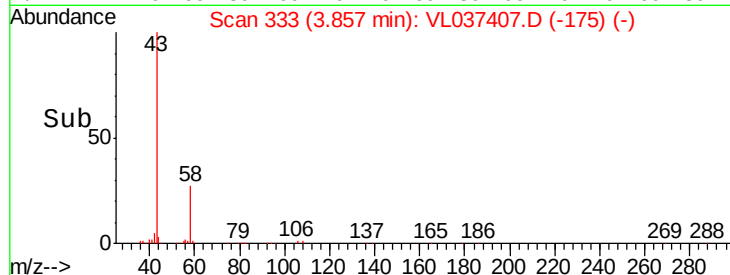
100000

50000

0

3.80 3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 9.892 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.00 min

Lab File: VL037407.D

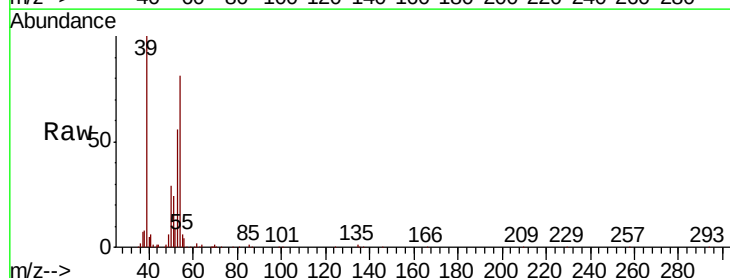
Acq: 12 Aug 2021 2:29

Tgt Ion: 39 Resp: 245226

Ion Ratio Lower Upper

39 100

54 83.3 60.9 91.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

150000

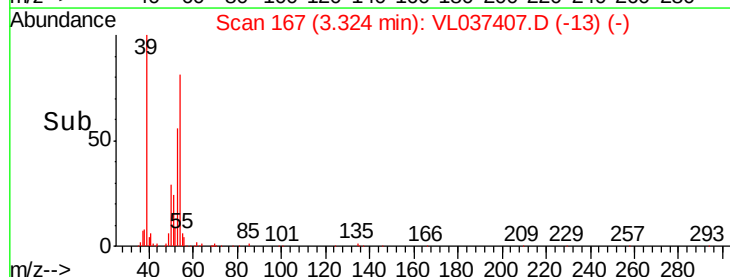
100000

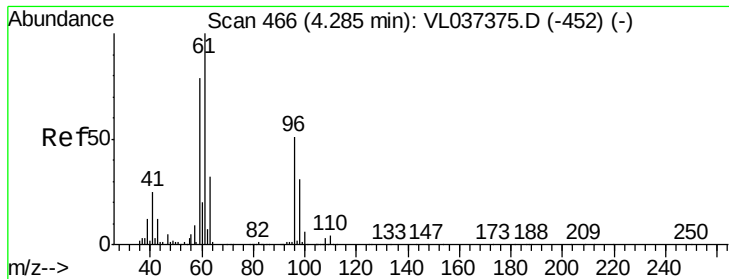
50000

0

3.25 3.30 3.35

Time-->





#17

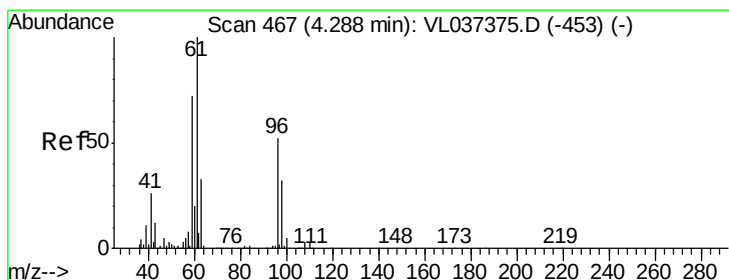
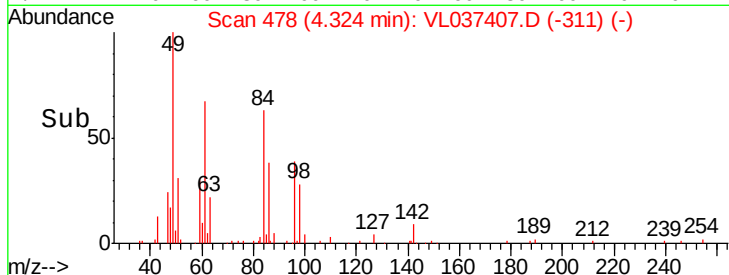
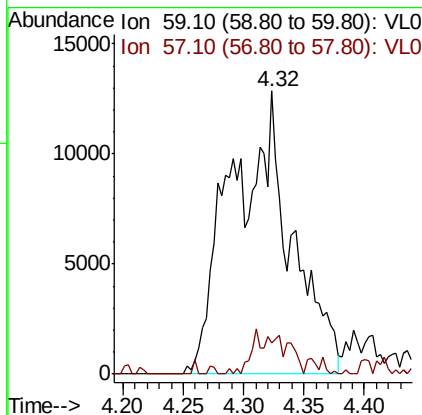
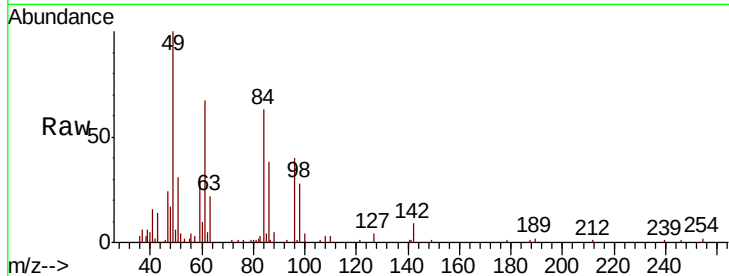
tert-Butyl alcohol
Concen: 1.395 ppbv
RT: 4.32 min Scan# 478
Delta R.T. 0.04 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 44026
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

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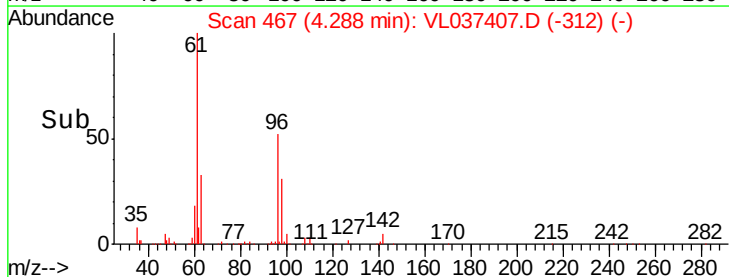
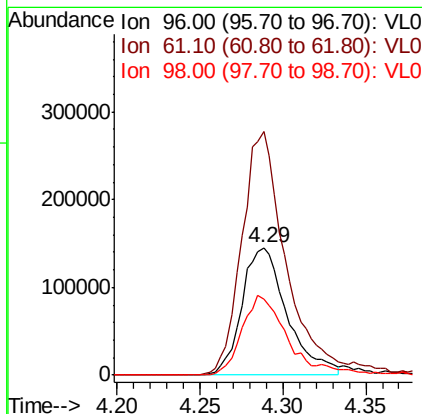
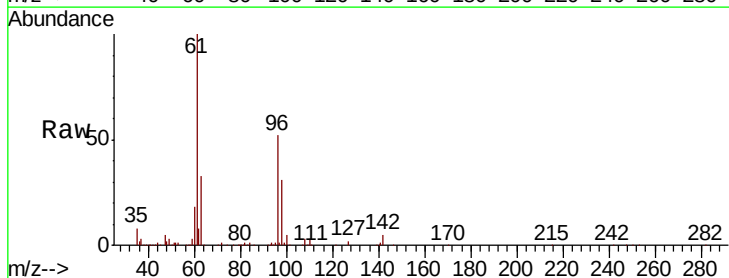
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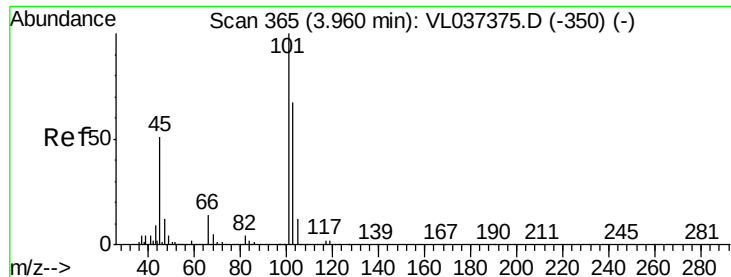


#18

1,1-Dichloroethene
Concen: 15.173 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion: 96 Resp: 275410
Ion Ratio Lower Upper
96 100
61 190.9 153.2 229.8
98 59.7 49.5 74.3





#19

Isopropyl Alcohol

Concen: 3.003 ppbv m

RT: 3.99 min Scan# 374

Delta R.T. 0.03 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 61005

Ion Ratio Lower Upper

45 100

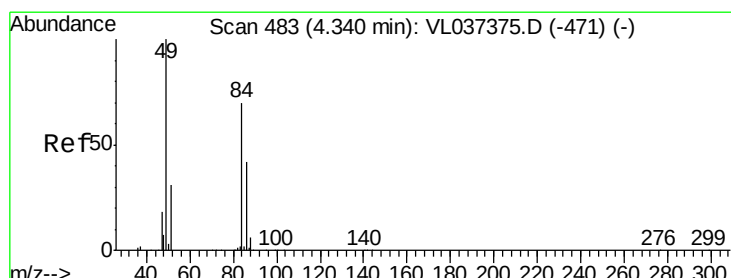
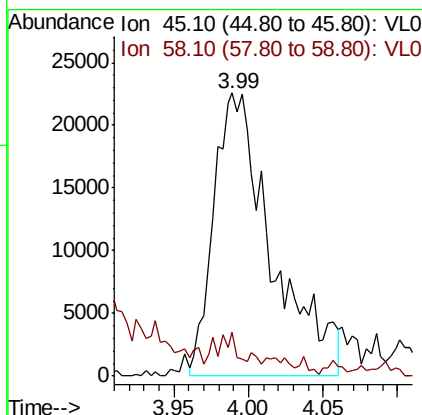
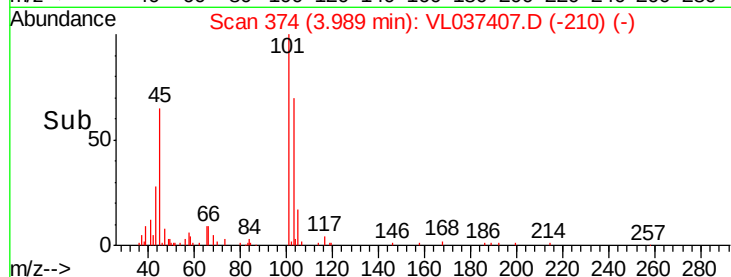
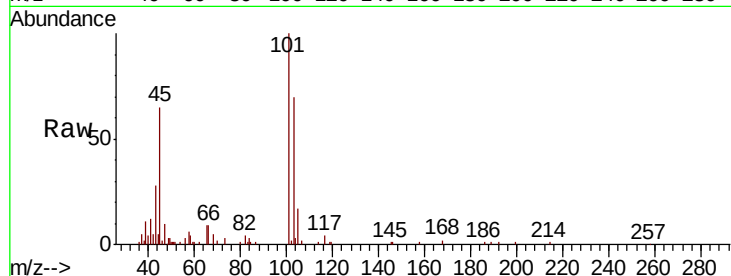
58 0.0 38.7 58.1#

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#20

Methylene Chloride

Concen: 12.762 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Tgt Ion: 84 Resp: 244550

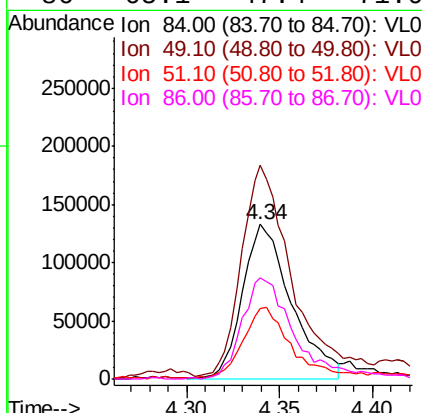
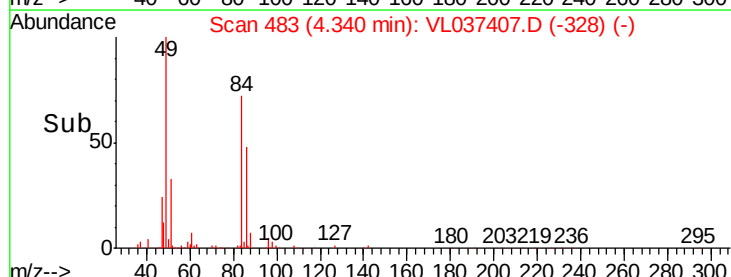
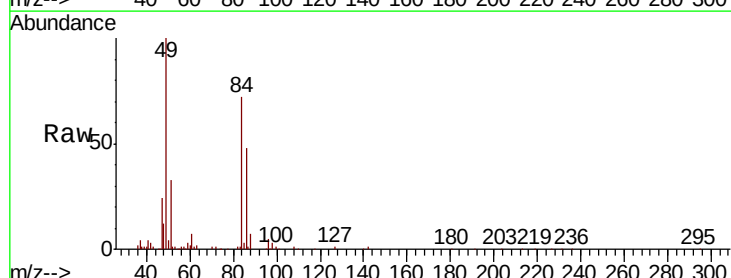
Ion Ratio Lower Upper

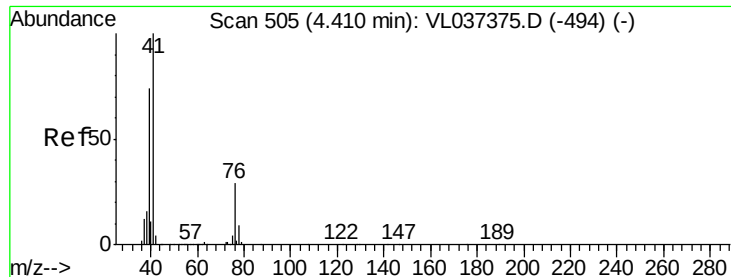
84 100

49 134.1 113.8 170.6

51 45.0 34.7 52.1

86 65.1 47.4 71.0





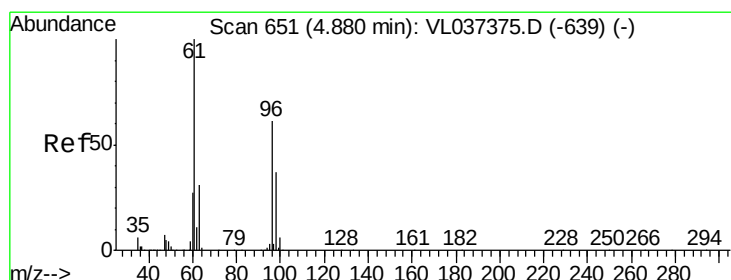
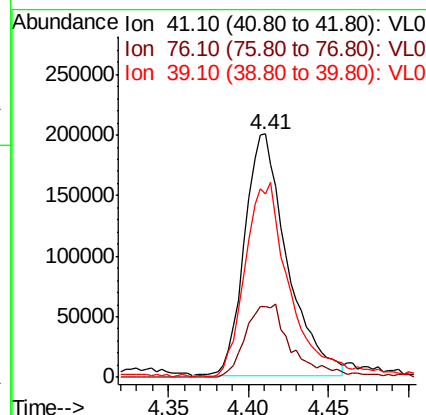
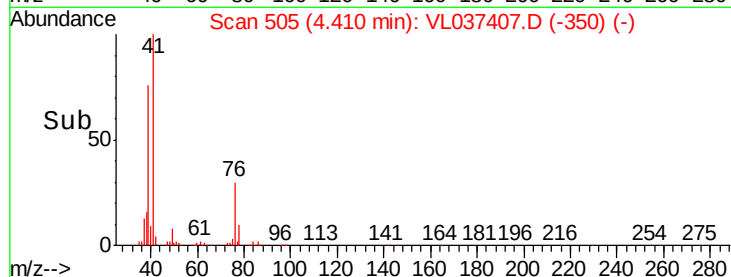
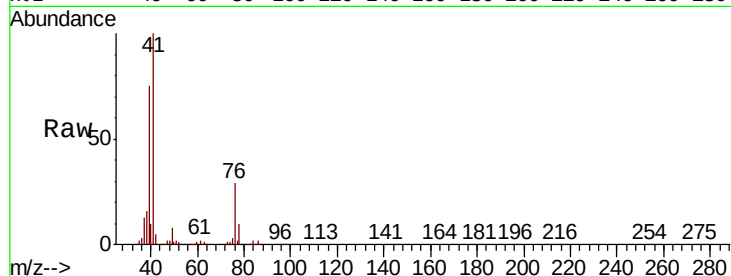
#21
Allvl Chloride
Concen: 13.096 ppbv
RT: 4.41 min Scan# 505
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	33.2	23.0	34.4
39	88.1	61.4	92.0

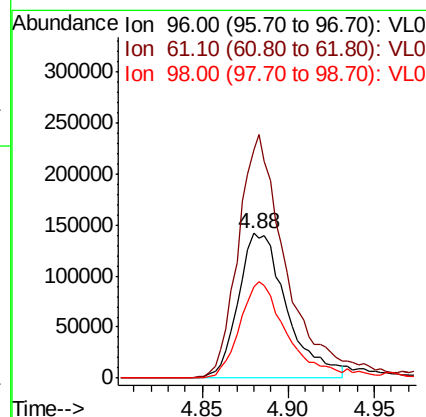
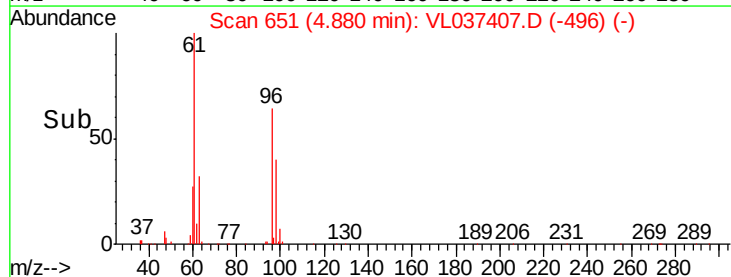
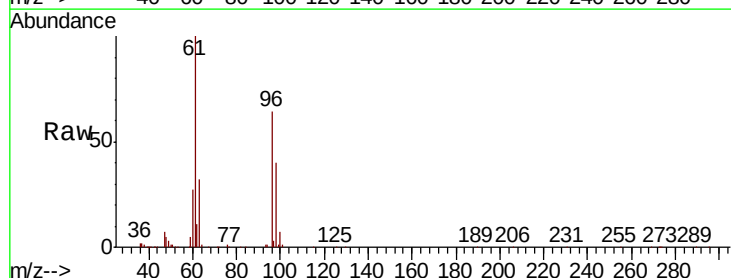
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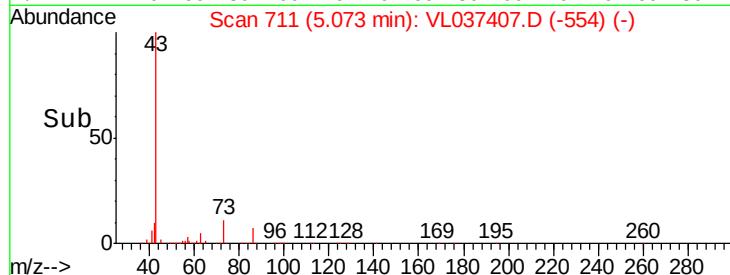
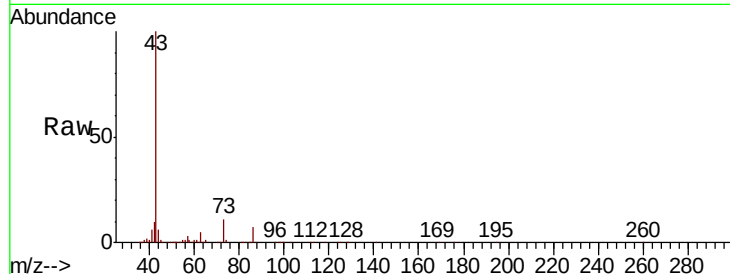
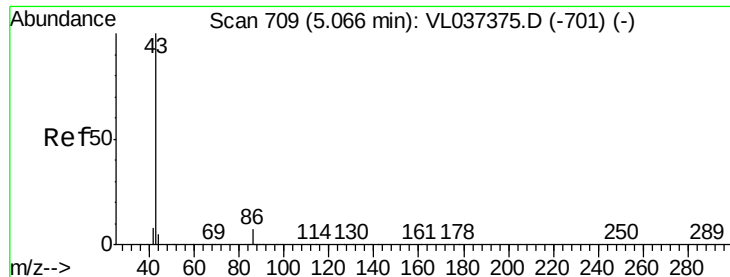
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#22
trans-1,2-Dichloroethene
Concen: 16.117 ppbv
RT: 4.88 min Scan# 651
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.4	132.2	198.4
98	62.8	48.7	73.1





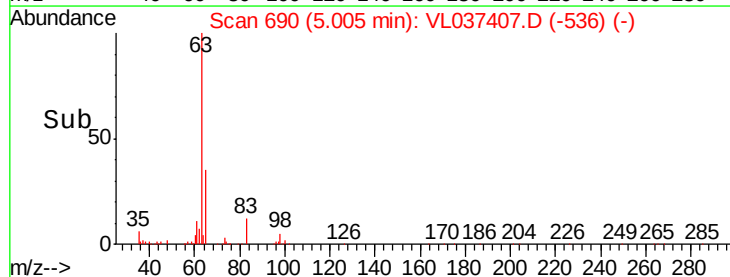
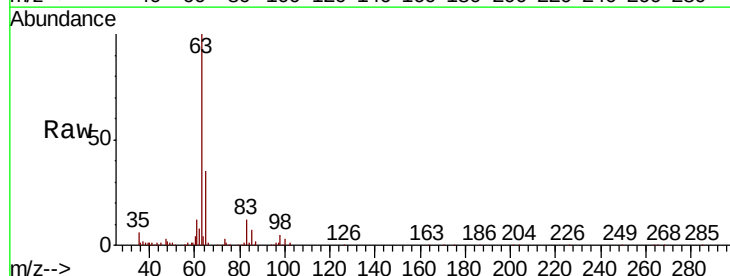
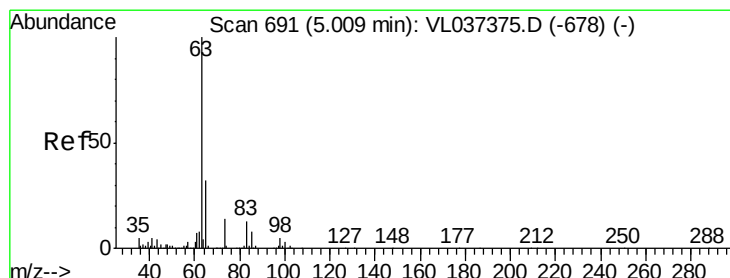
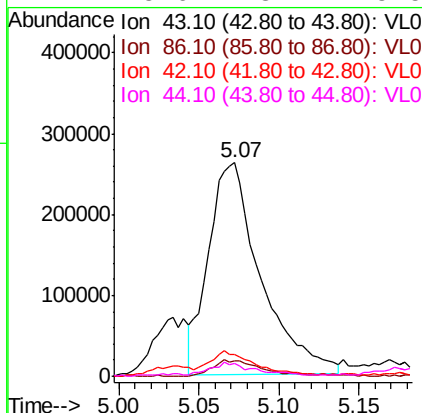
#23
 Vinyl Acetate
 Concen: 10.520 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. 0.01 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
86	7.5		4.8	7.2#
42	9.9		7.3	10.9
44	5.6		3.7	5.5#

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

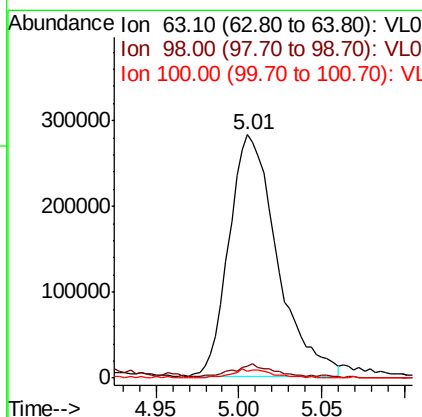
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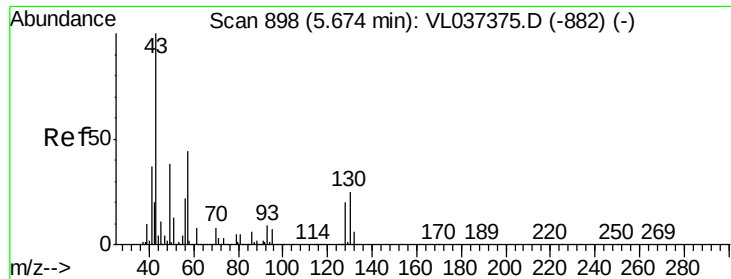
apatel
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#24
 1,1-Dichloroethane
 Concen: 12.693 ppbv
 RT: 5.01 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Resp	Lower	Upper
63	100			
98	4.4		2.5	7.5
100	2.6		1.4	4.2





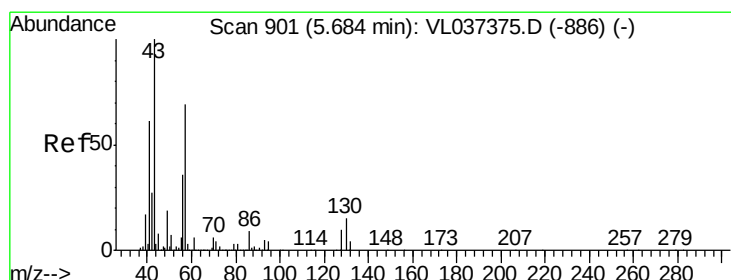
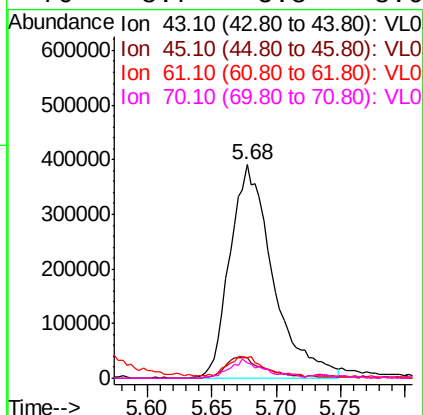
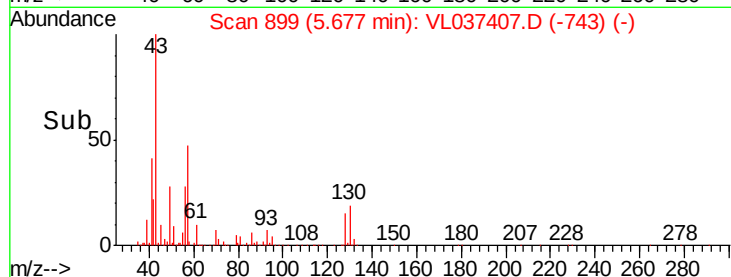
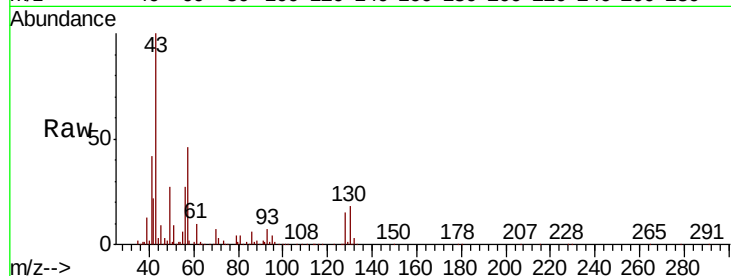
#25
Ethyl Acetate
Concen: 10.021 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.8	8.0	12.0	
61	10.7	7.7	11.5	
70	8.7	5.8	8.6	

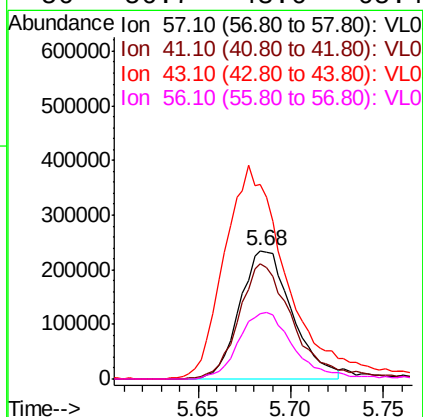
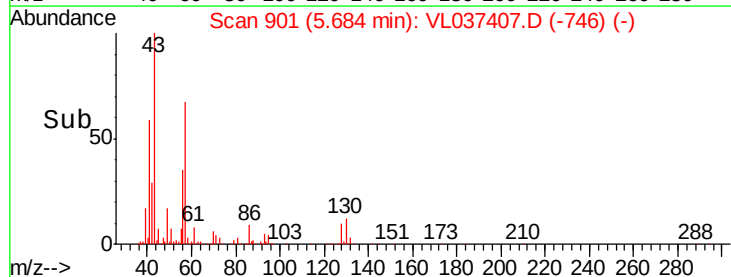
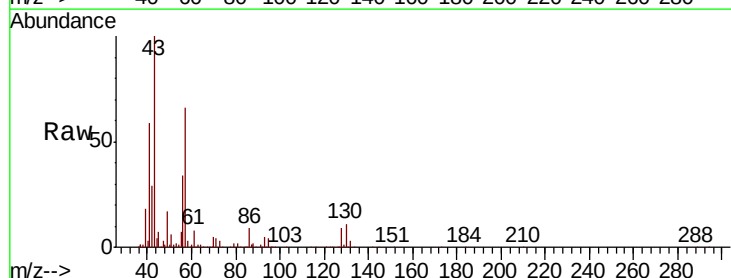
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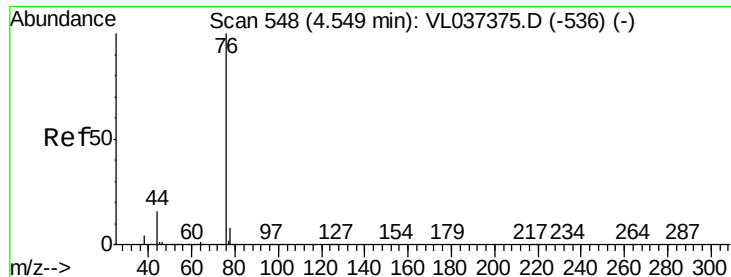
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#26
Hexane
Concen: 10.042 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	96.7	73.4	110.0	
43	204.3	174.4	261.6	
56	56.7	43.6	65.4	





#27

Carbon Disulfide

Concen: 18.052 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

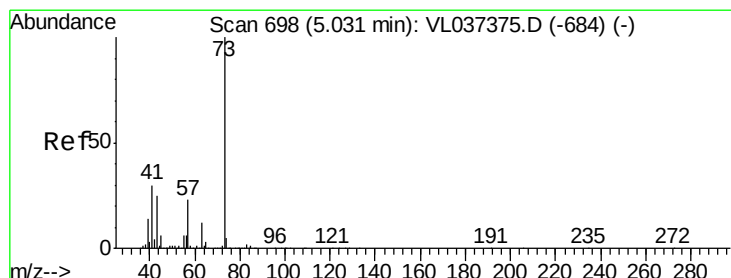
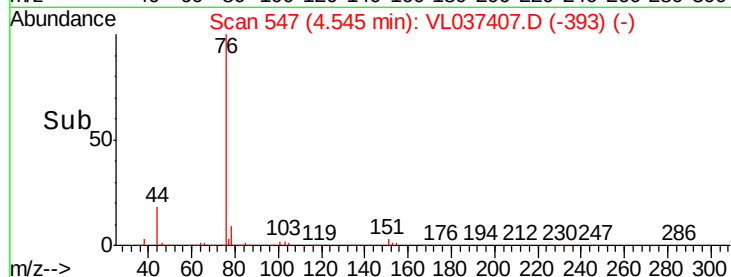
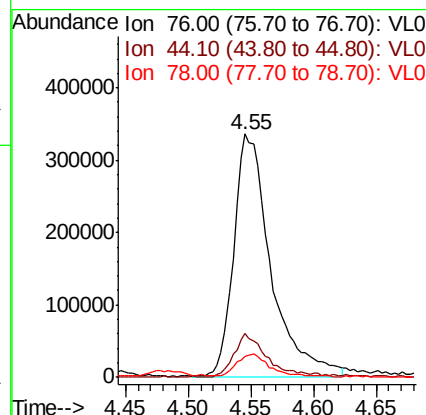
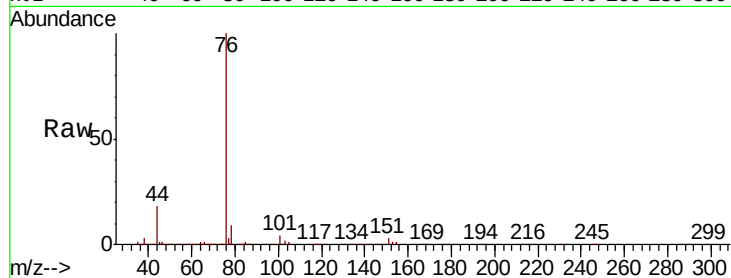
ClientSampleId :

VSTDCCC010EC

Tot Ion:	76	Resp:	692198
Ion Ratio	Lower	Upper	
76	100		
44	16.9	13.7	20.5
78	9.3	7.7	11.5

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#28

Methyl tert-Butyl Ether

Concen: 11.489 ppbv

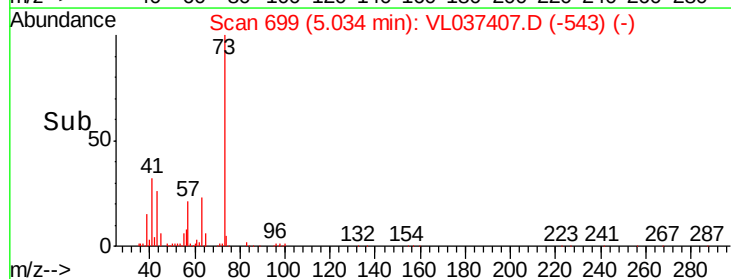
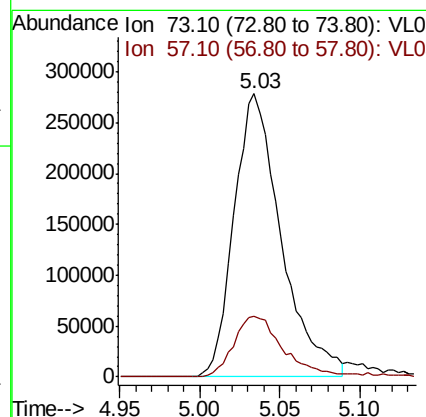
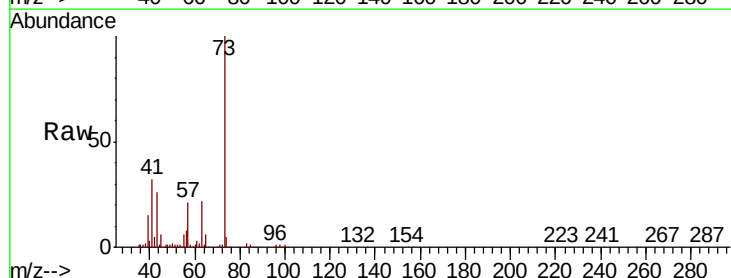
RT: 5.03 min Scan# 699

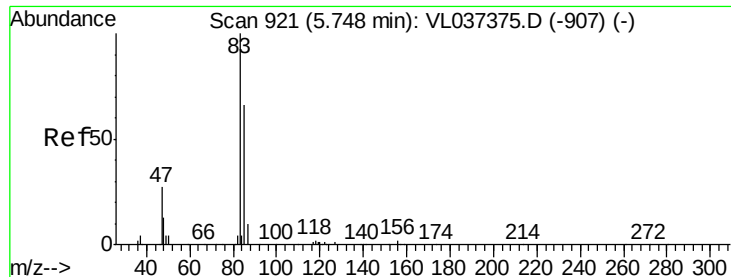
Delta R.T. 0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Tgt Ion:	73	Resp:	561371
Ion Ratio	Lower	Upper	
73	100		
57	23.2	18.8	28.2





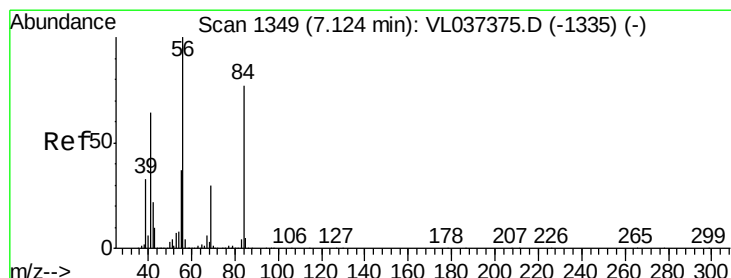
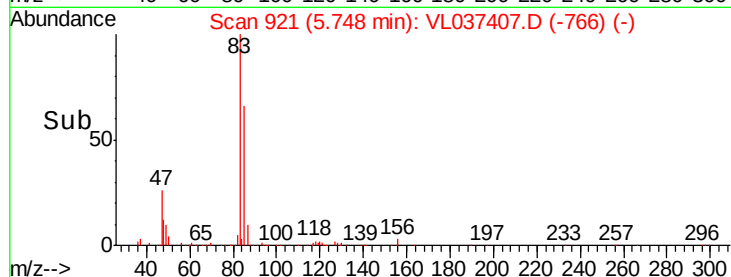
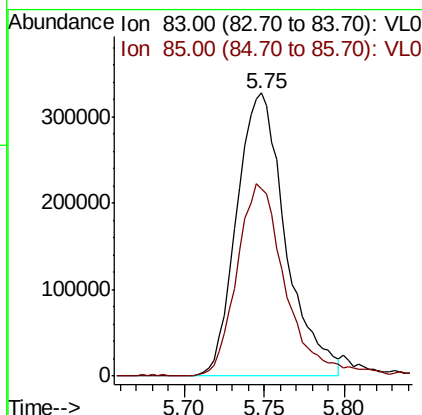
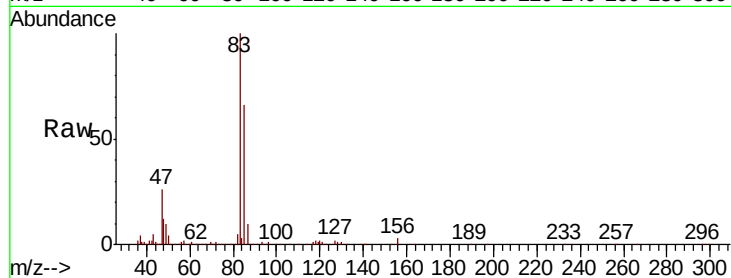
#29
Chloroform
Concen: 10.445 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.8	79.2

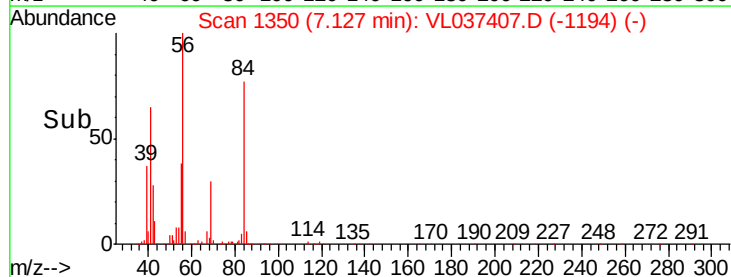
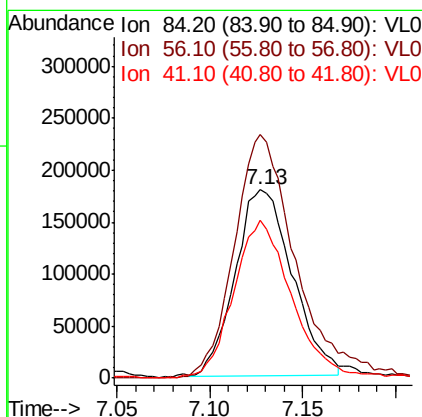
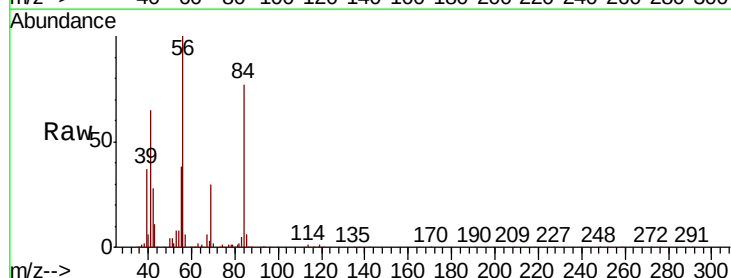
Manual Integrations
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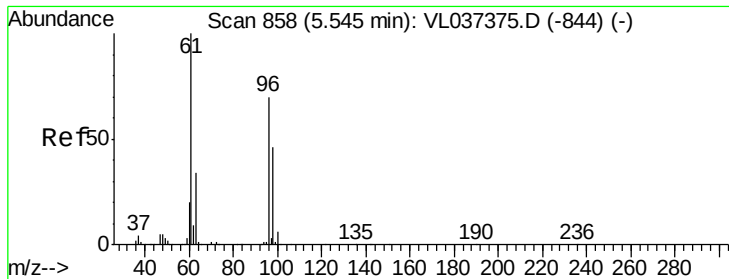
apatel
8/12/2021 10:16:24 AM



#30
Cyclohexane
Concen: 10.195 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
84	100		
56	141.2	109.4	164.0
41	85.5	66.2	99.2





#31

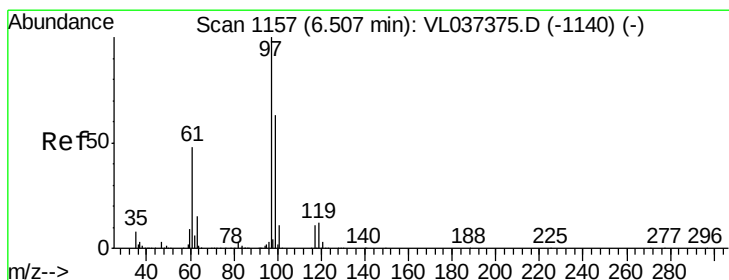
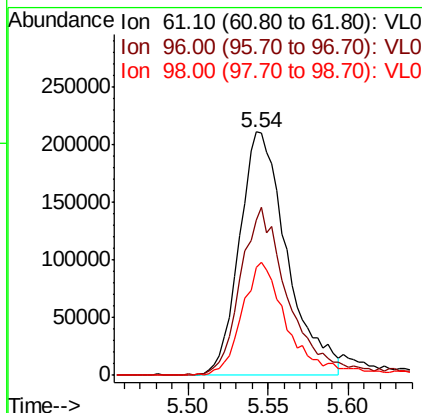
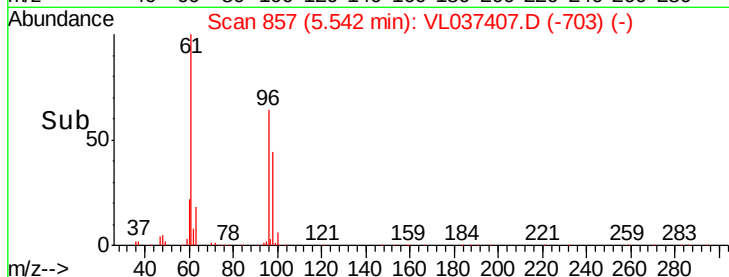
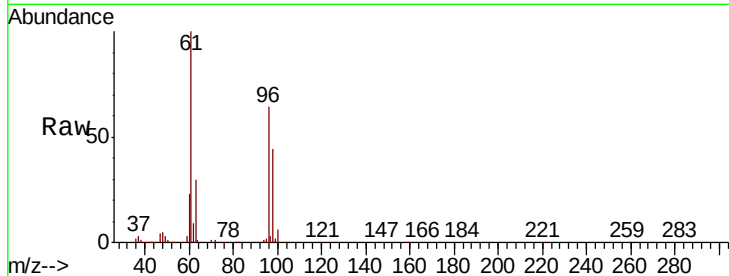
cis-1,2-Dichloroethene
 Concen: 10.530 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
61	100		431723		
96	63.0	56.0	84.0		
98	44.4	36.8	55.2		

Manual Integrations
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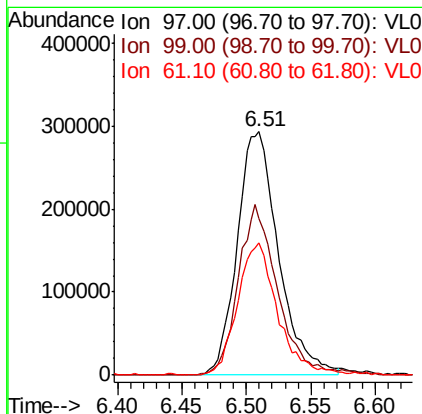
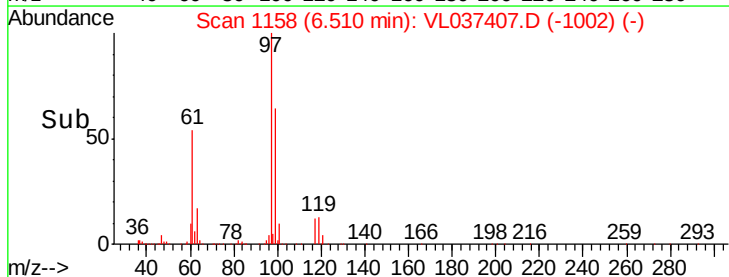
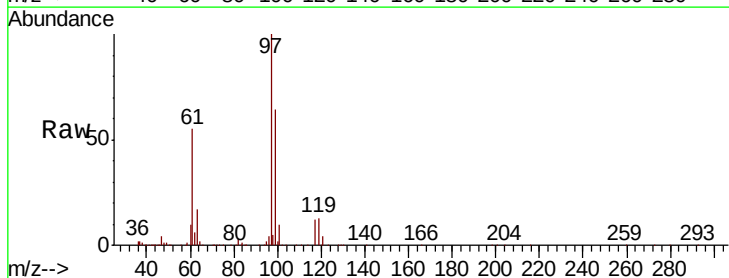
apatel
 8/12/2021 10:16:24 AM

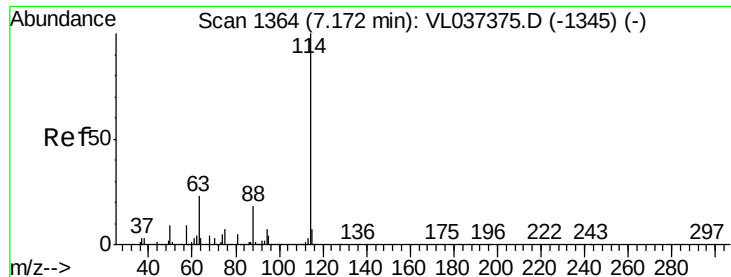


#32

1,1,1-Trichloroethane
 Concen: 10.291 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. 0.00 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	100		654646		
99	67.0	52.7	79.1		
61	52.9	39.9	59.9		





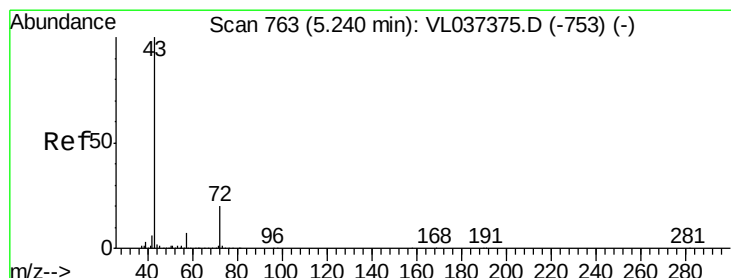
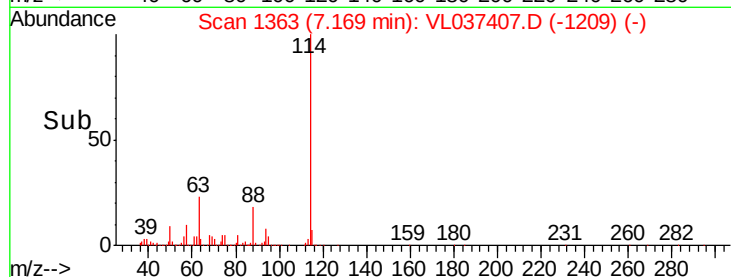
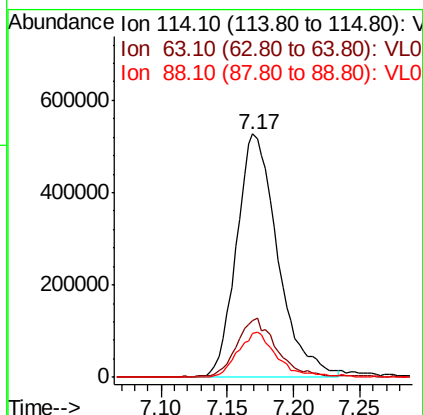
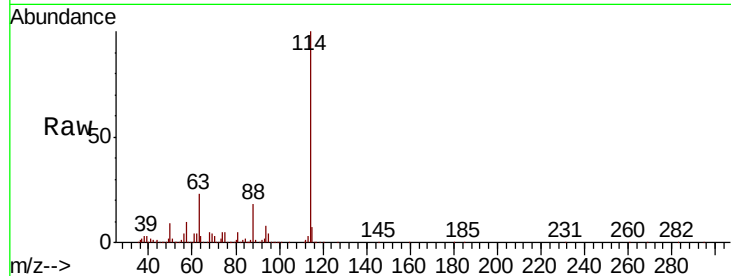
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.5	29.3
88	17.9	14.3	21.5

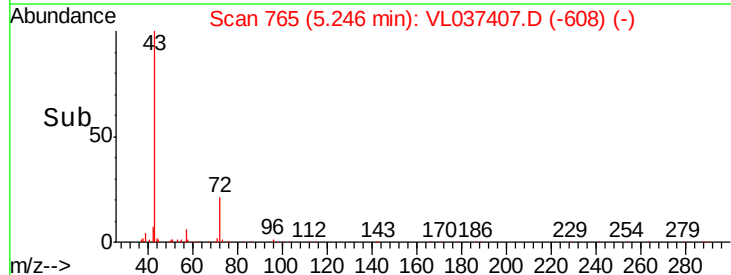
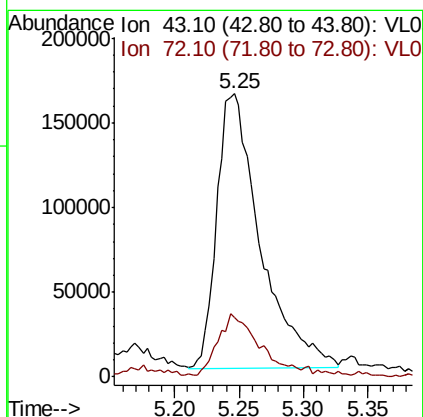
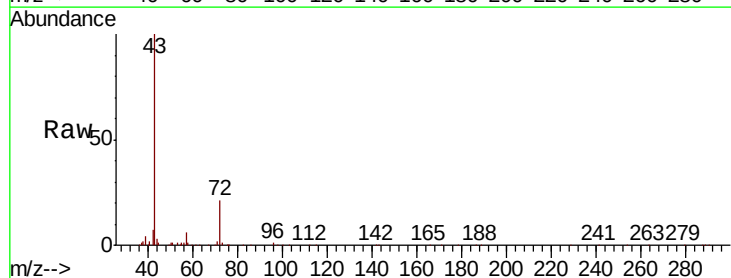
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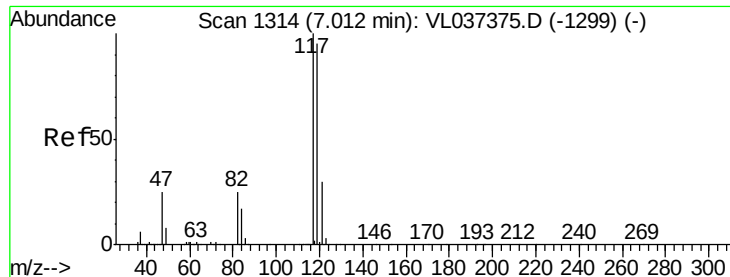
apatel
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#34
 2-Butanone
 Concen: 8.769 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.1	19.6	29.4





#35

Carbon Tetrachloride

Concen: 10.727 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

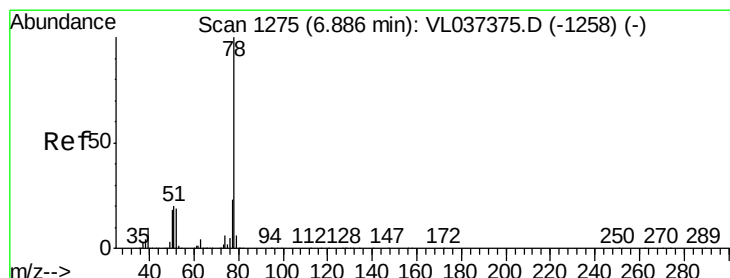
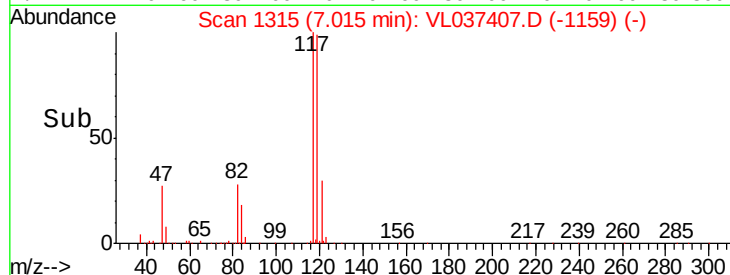
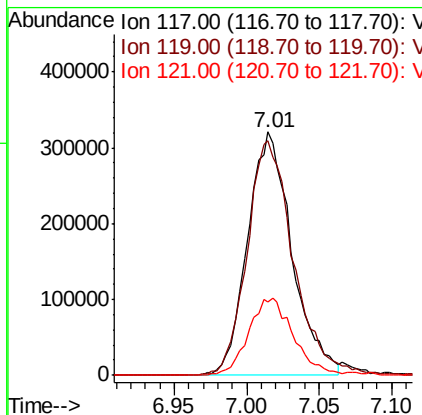
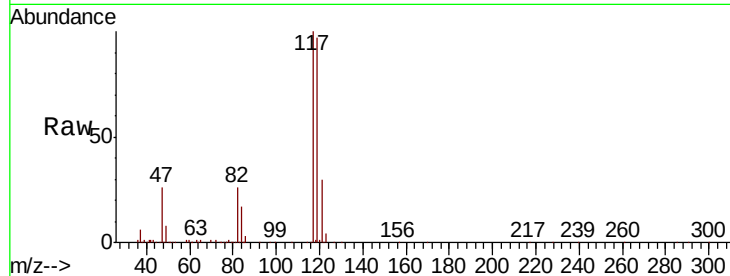
ClientSampleId :

VSTDCCC010EC

Tot Ion:	117	Resp:	683045
Ion Ratio	Lower	Upper	
117	100		
119	96.6	76.1	114.1
121	29.9	24.4	36.6

Manual Integrations
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#36

Benzene

Concen: 10.606 ppbv

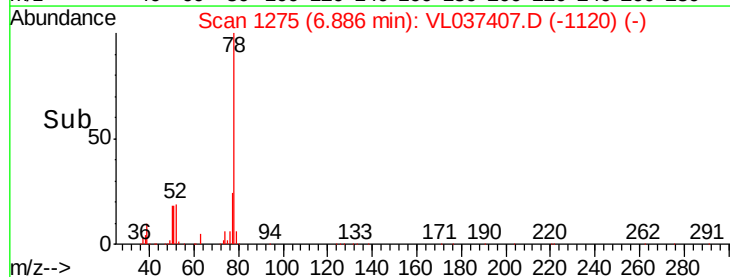
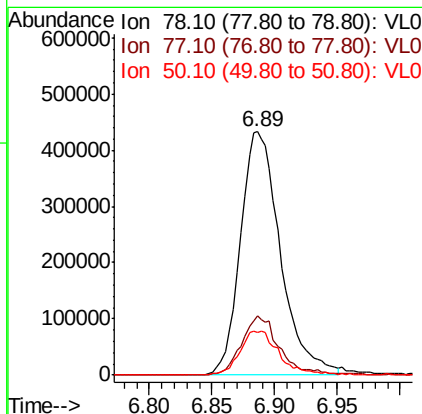
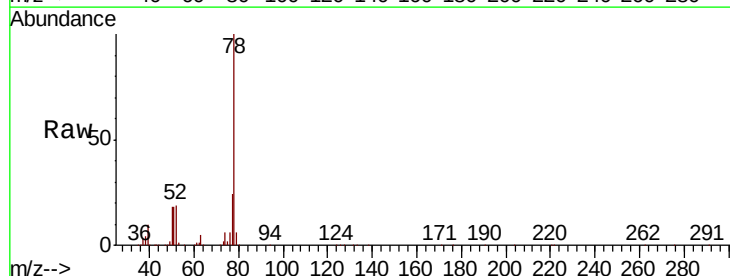
RT: 6.89 min Scan# 1275

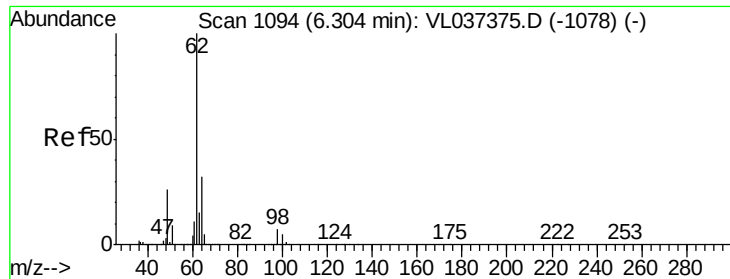
Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Tgt Ion:	78	Resp:	960957
Ion Ratio	Lower	Upper	
78	100		
77	24.4	18.6	28.0
50	17.8	14.3	21.5





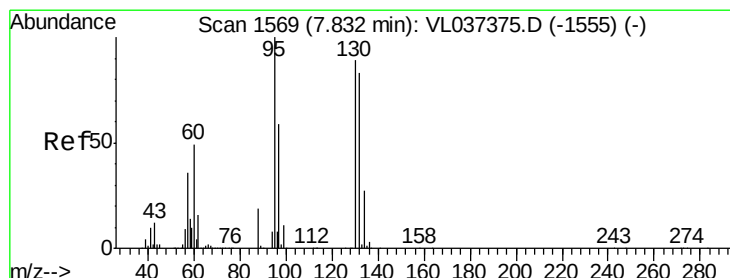
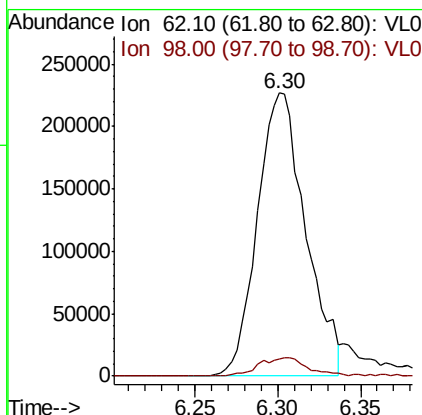
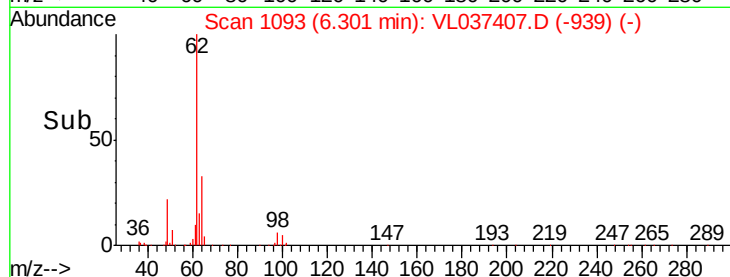
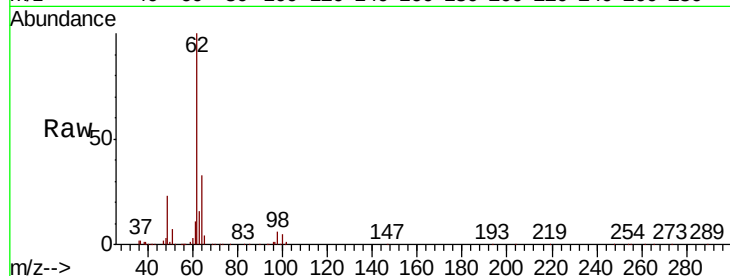
#37
 1,2-Dichloroethane
 Concen: 9.912 ppbv
 RT: 6.30 min Scan# 1093
 Delta R.T. -0.00 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
62	100	459404		
98	7.2	5.8	8.8	

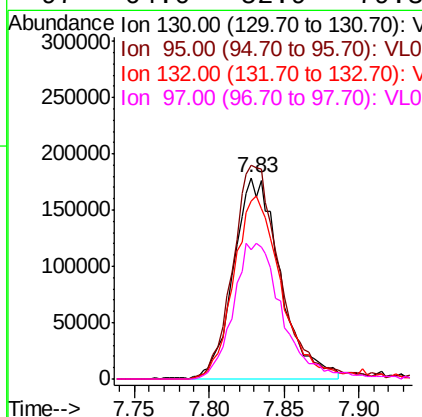
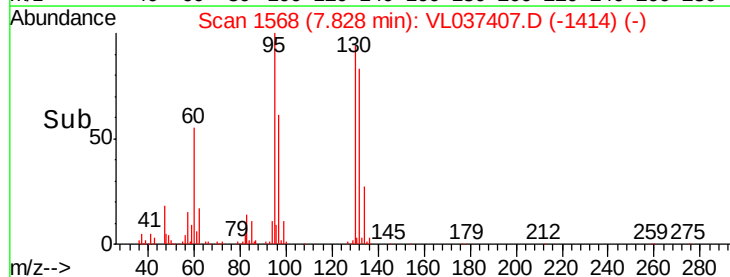
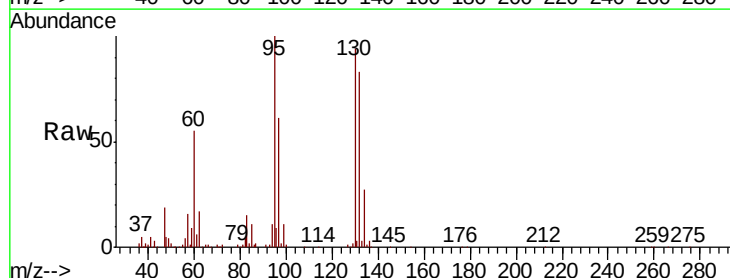
Manual Integrations
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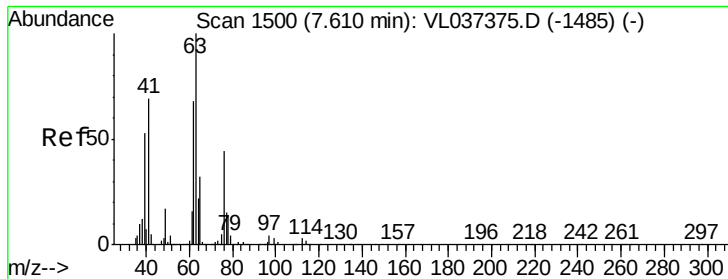
apatel
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#38
 Trichloroethene
 Concen: 10.021 ppbv
 RT: 7.83 min Scan# 1568
 Delta R.T. -0.00 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	386586		
95	105.9	89.5	134.3	
132	88.2	74.2	111.4	
97	64.0	52.9	79.3	





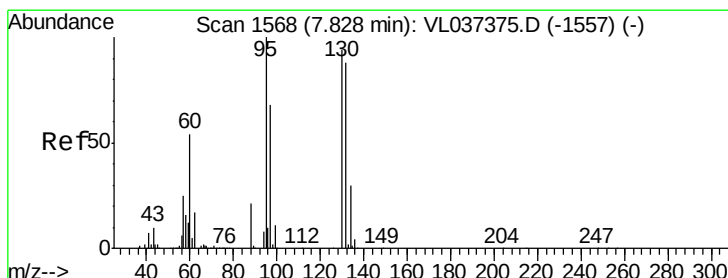
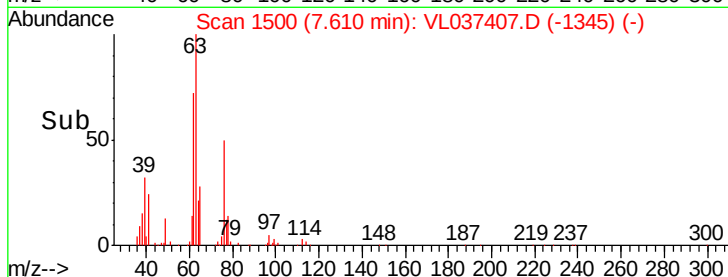
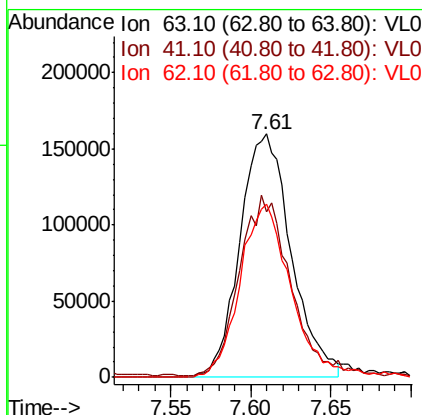
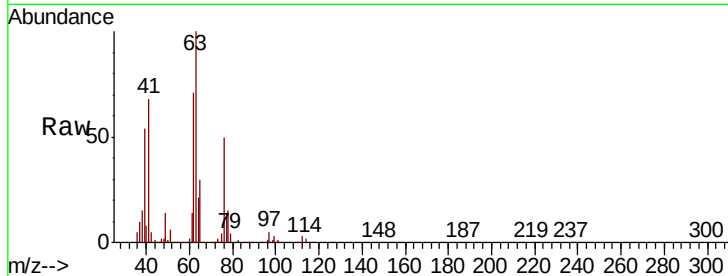
#39
 1,2-Dichloropropane
 Concen: 10.580 ppbv
 RT: 7.61 min Scan# 1500
 Delta R.T. -0.00 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	63	Resp:	350445
Ion Ratio	Lower	Upper	
63	100		
41	67.2	54.8	82.2
62	71.1	54.5	81.7

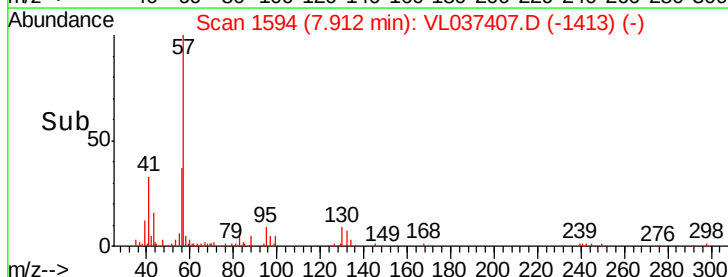
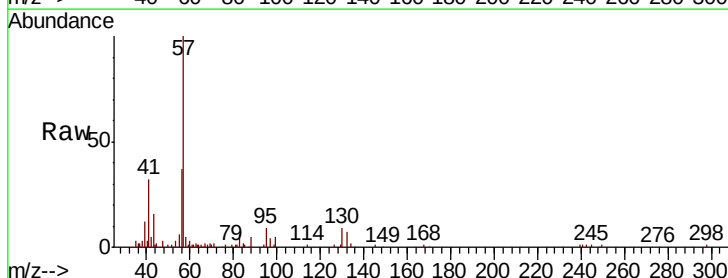
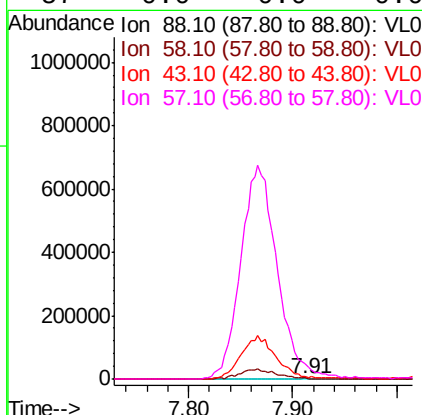
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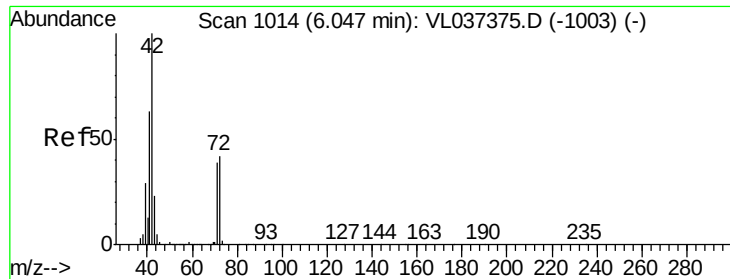
apatel
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#40
 1,4-Dioxane
 Concen: 0.419 ppbv m
 RT: 7.91 min Scan# 1594
 Delta R.T. 0.08 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Tgt Ion:	88	Resp:	3699
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





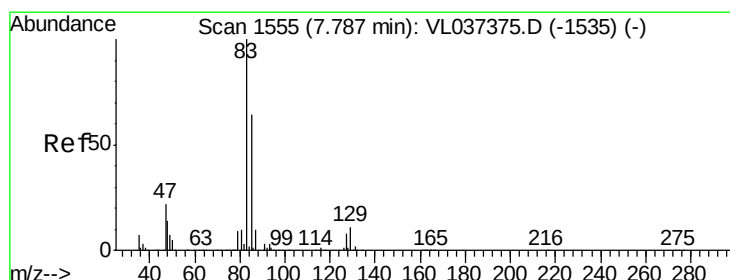
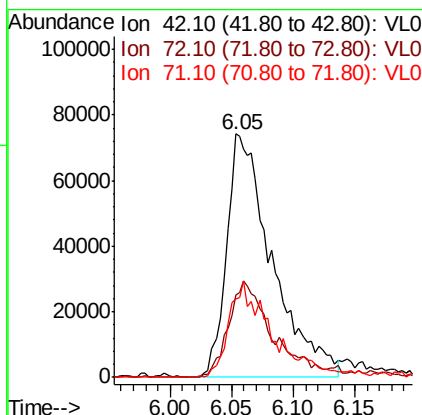
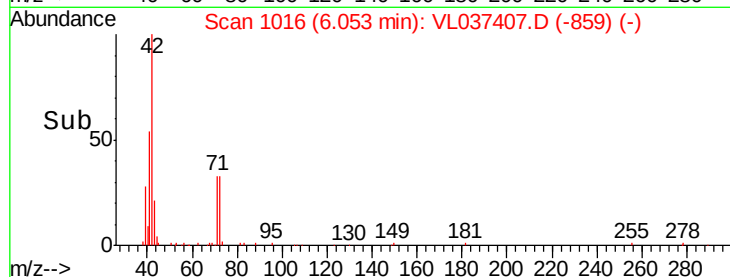
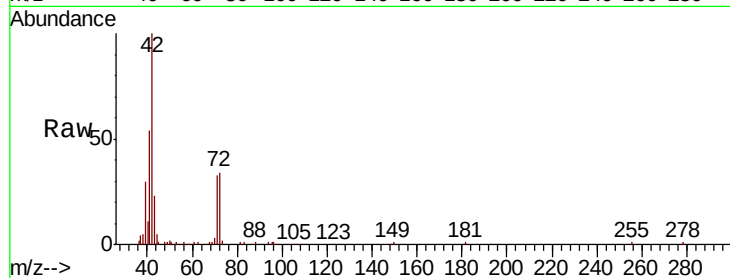
#41
Tetrahydrofuran
Concen: 9.378 ppbv m
RT: 6.05 min Scan# 1016
Delta R.T. 0.01 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.4	51.6#
71	0.0	32.3	48.5#

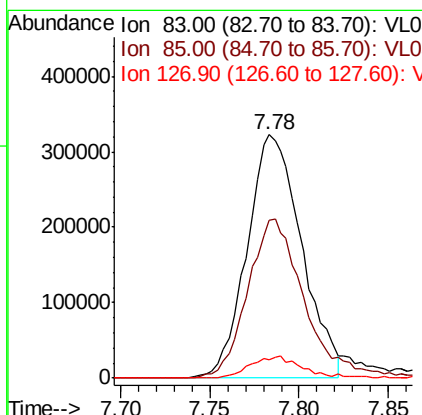
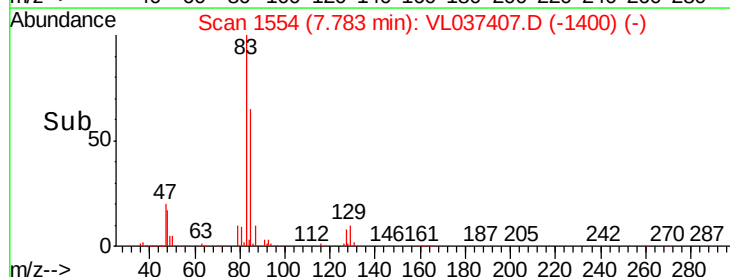
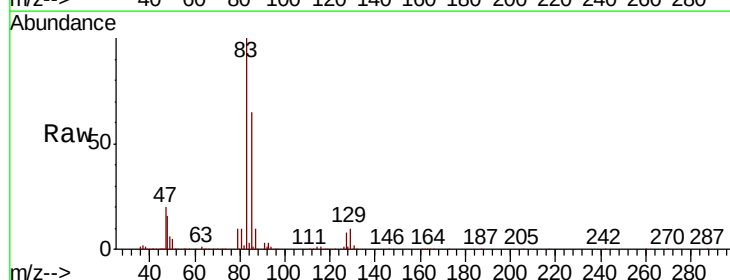
Manual Integrations
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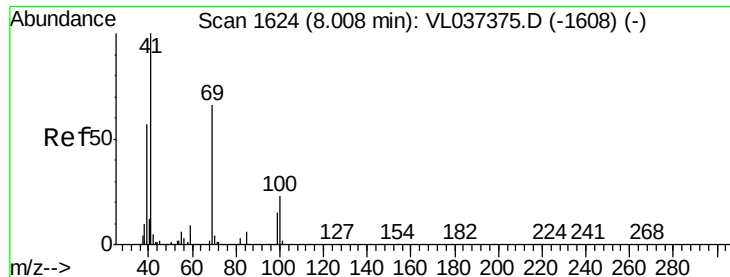
apatel
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#42
Bromodichloromethane
Concen: 10.491 ppbv
RT: 7.78 min Scan# 1554
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.2	76.8
127	7.5	6.7	10.1





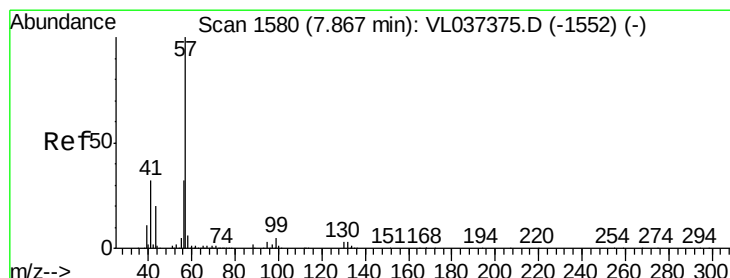
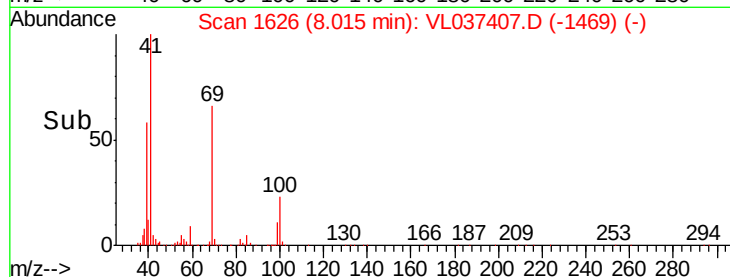
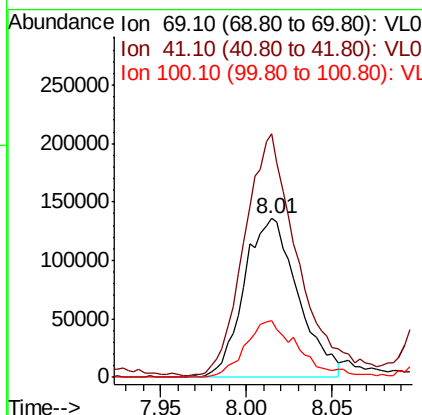
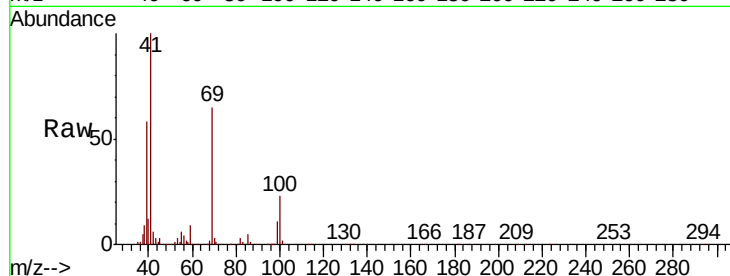
#43
Methyl Methacrylate
Concen: 9.389 ppbv
RT: 8.01 min Scan# 1626
Delta R.T. 0.01 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	151.9	119.8	179.6	
100	35.5	27.7	41.5	

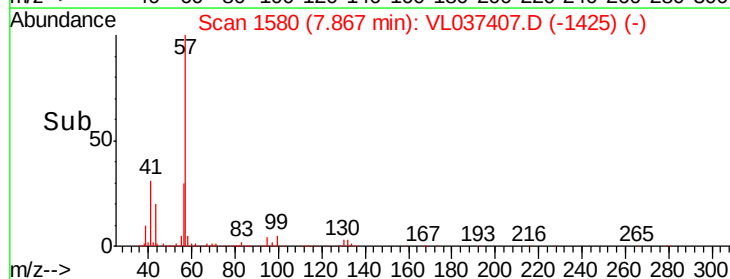
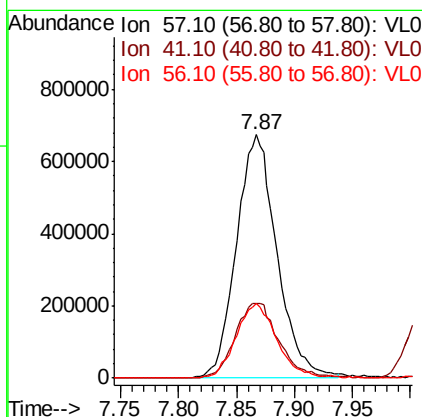
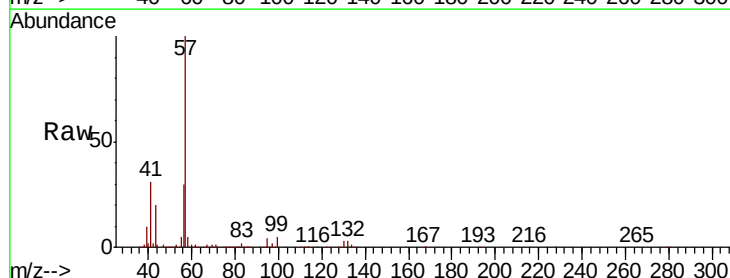
Manual Integrations
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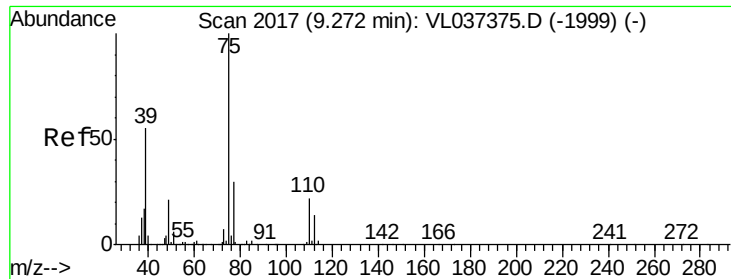
apatel
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#44
2,2,4-Trimethylpentane
Concen: 10.794 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.1	26.1	39.1	
56	31.3	25.1	37.7	





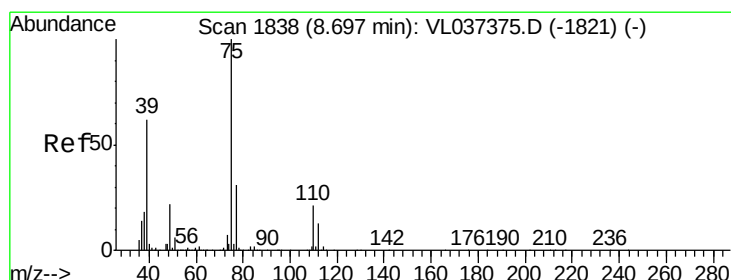
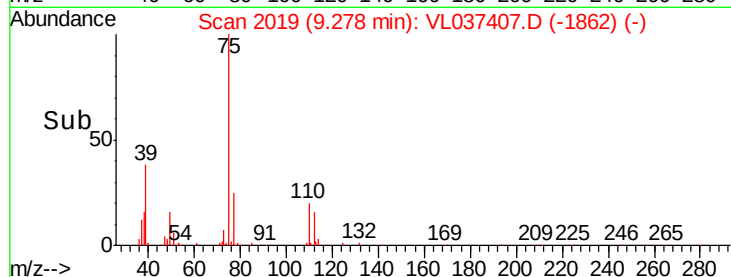
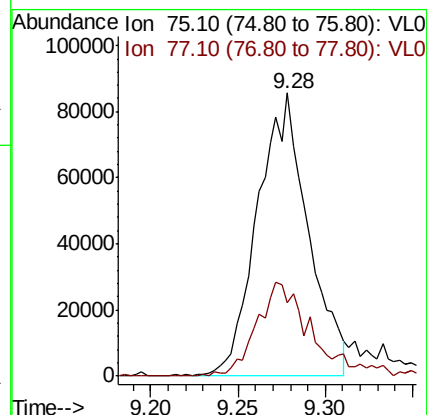
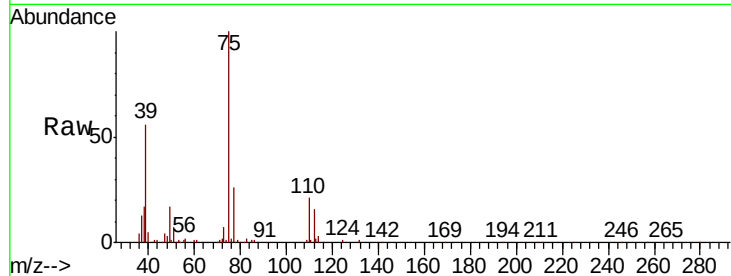
#45
t-1,3-Dichloropropene
Concen: 7.307 ppbv m
RT: 9.28 min Scan# 2019
Delta R.T. 0.01 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	26.0	24.1	36.1

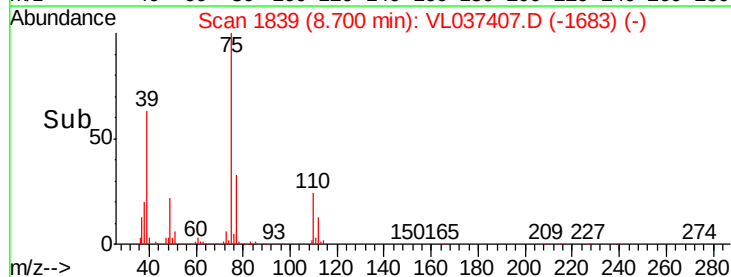
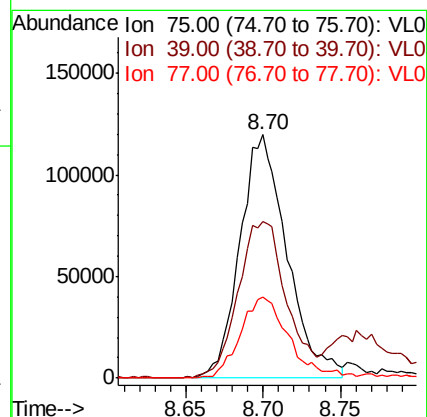
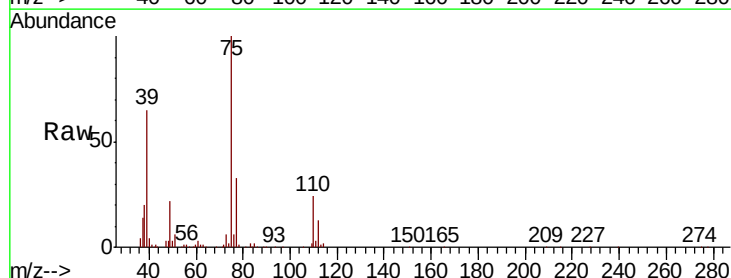
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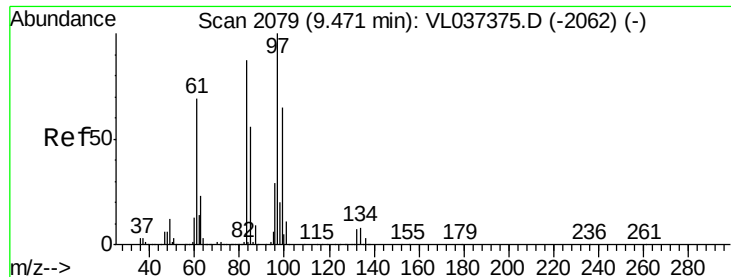
apatel
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#46
cis-1,3-Dichloropropene
Concen: 7.800 ppbv
RT: 8.70 min Scan# 1839
Delta R.T. 0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
75	100		
39	64.5	49.4	74.2
77	33.2	25.0	37.6





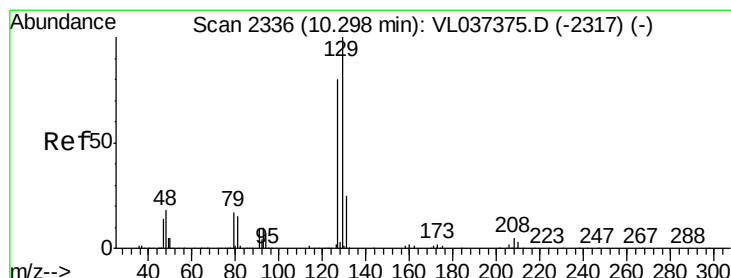
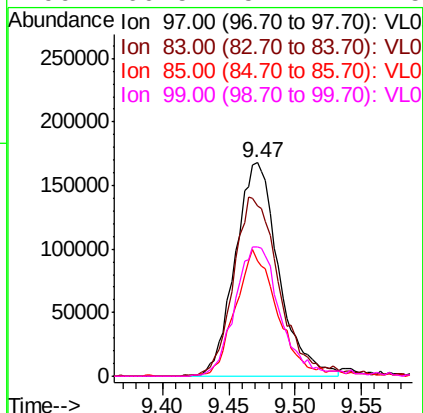
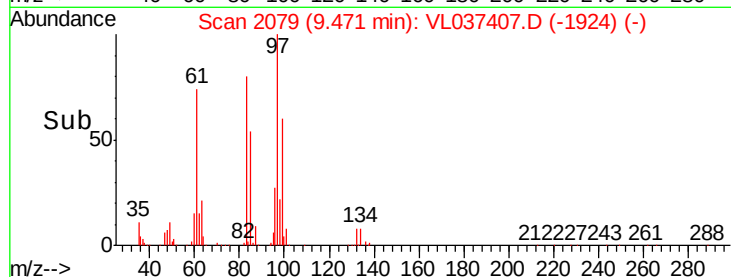
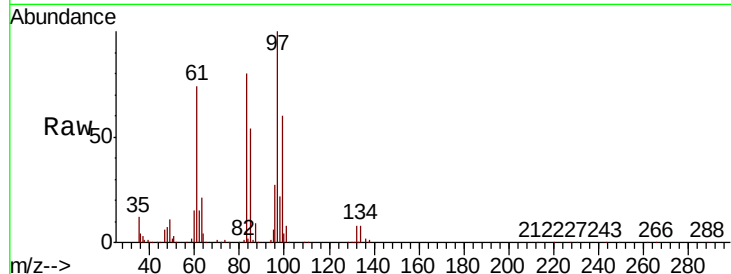
#47
 1,1,2-Trichloroethane
 Concen: 10.188 ppbv
 RT: 9.47 min Scan# 2079
 Delta R.T. -0.00 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Tot Ion	97	Resp	380303
Ion Ratio	Lower	Upper	
97	100		
83	79.4	69.4	104.0
85	53.8	45.0	67.4
99	60.5	51.7	77.5

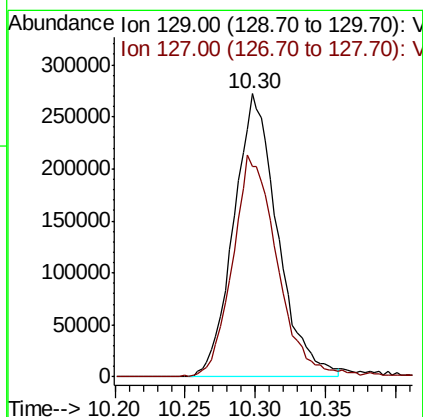
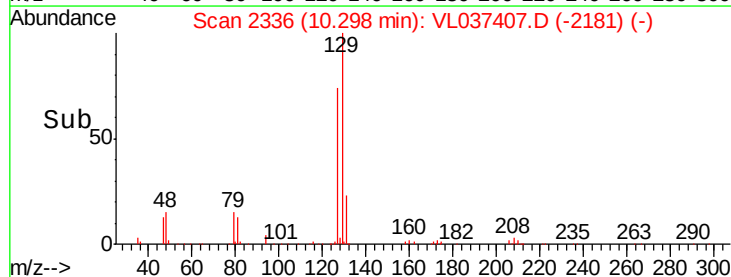
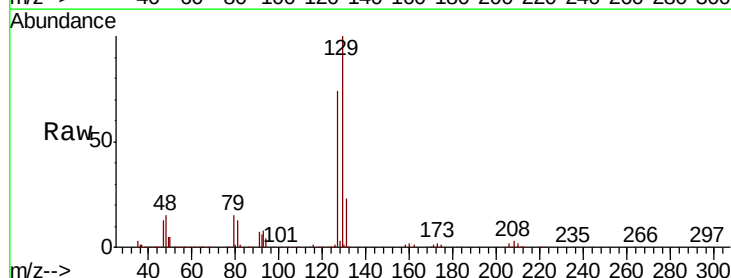
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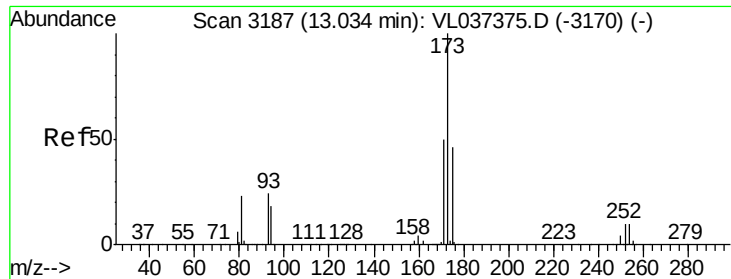
apatel
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#48
 Dibromochloromethane
 Concen: 10.666 ppbv
 RT: 10.30 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Tgt Ion	129	Resp	587209
Ion Ratio	Lower	Upper	
129	100		
127	81.2	40.1	120.3





#49

Bromoform

Concen: 9.967 ppbv

RT: 13.04 min Scan# 3188

Delta R.T. 0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

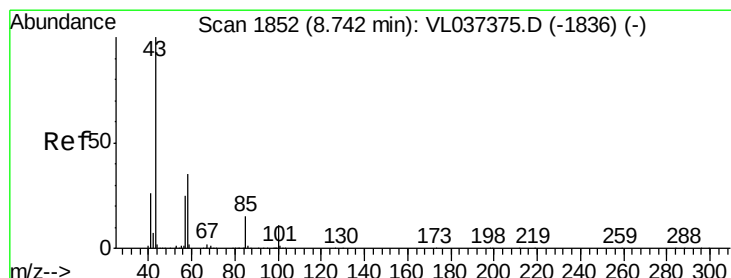
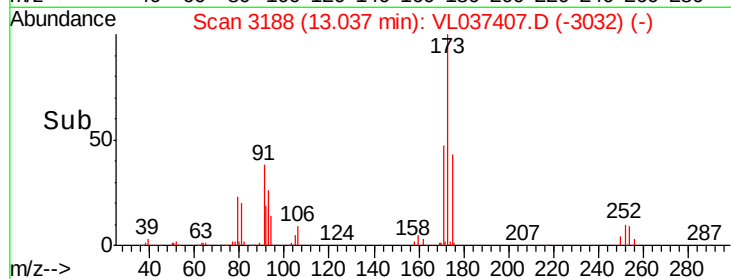
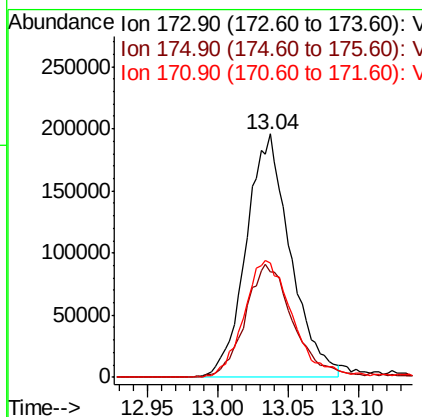
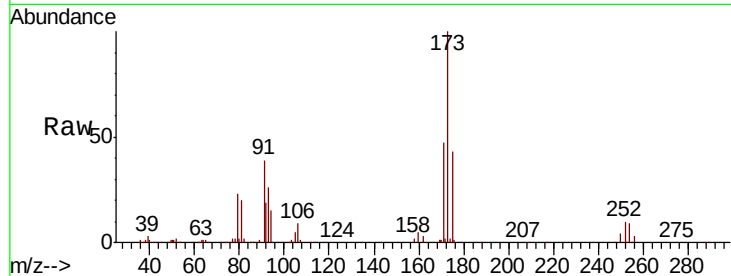
ClientSampleId :

VSTDCCC010EC

Tot Ion:	173	Resp:	431186
Ion Ratio	Lower	Upper	
173	100		
175	50.9	42.2	63.4
171	52.4	44.6	66.8

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#50

4-Methyl-2-Pentanone

Concen: 5.975 ppbv m

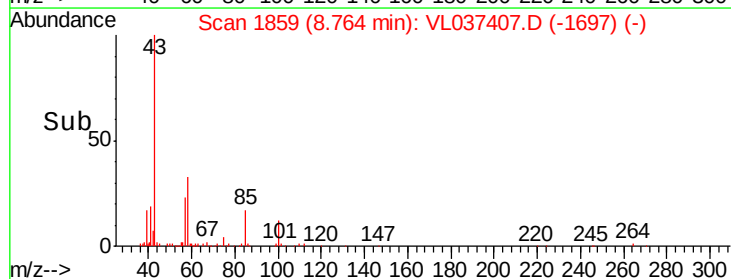
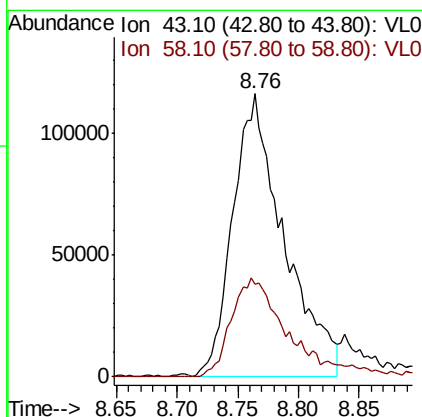
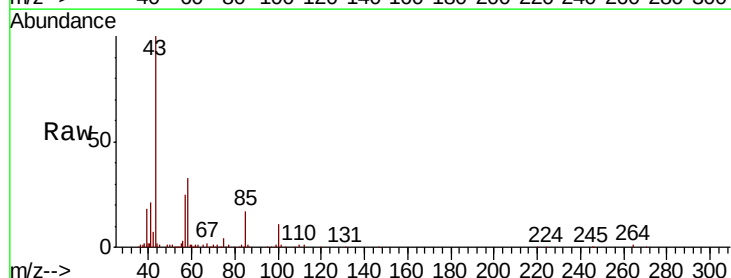
RT: 8.76 min Scan# 1859

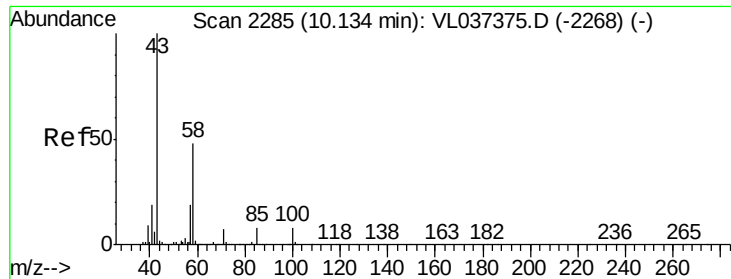
Delta R.T. 0.02 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Tgt Ion:	43	Resp:	338664
Ion Ratio	Lower	Upper	
43	100		
58	0.0	29.4	44.2#





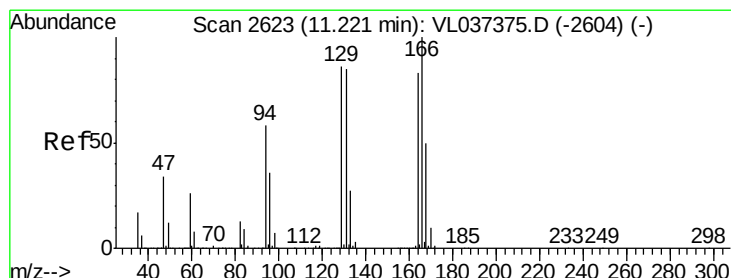
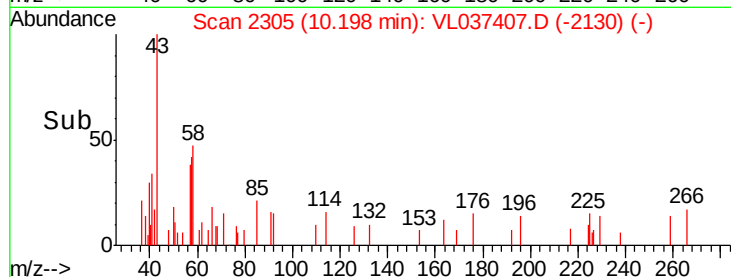
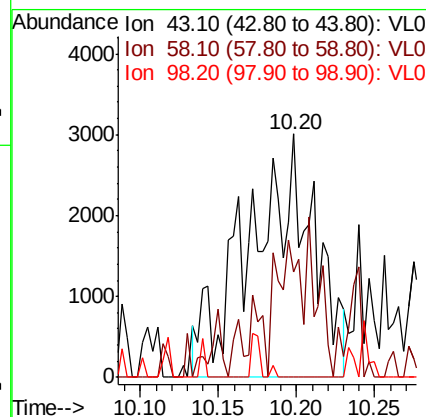
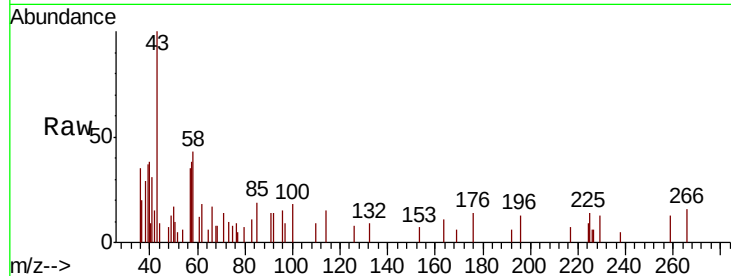
#51
2-Hexanone
Concen: 0.340 ppbv m
RT: 10.20 min Scan# 2305
Delta R.T. 0.06 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	11.3	41.8	62.8#
98	1.1	0.2	0.4#

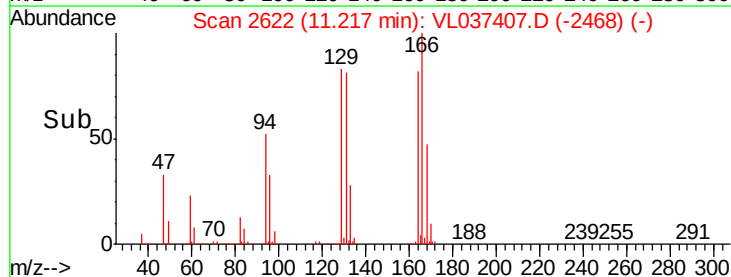
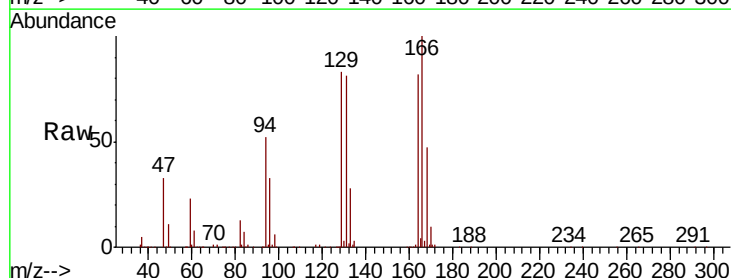
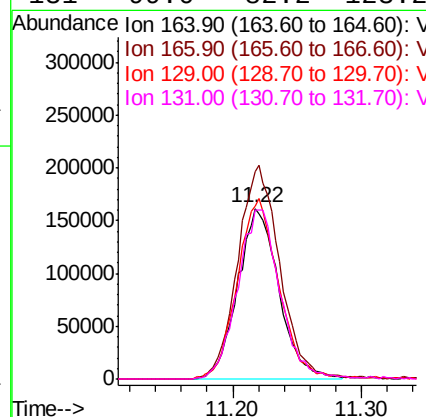
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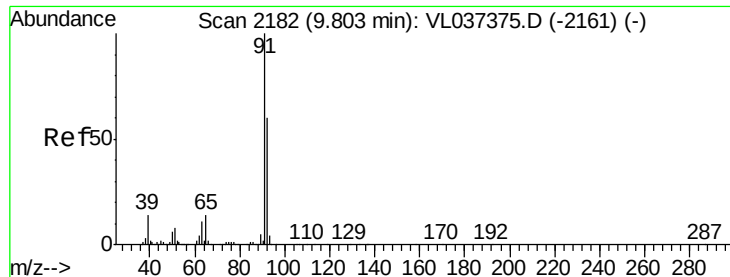
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#52
Tetrachloroethene
Concen: 9.654 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.4	96.5	144.7
129	101.1	83.2	124.8
131	99.0	82.2	123.2





#53

Toluene

Concen: 10.673 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 1121508

Ion Ratio Lower Upper

91 100

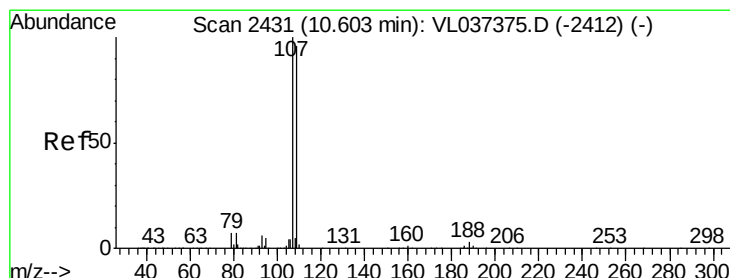
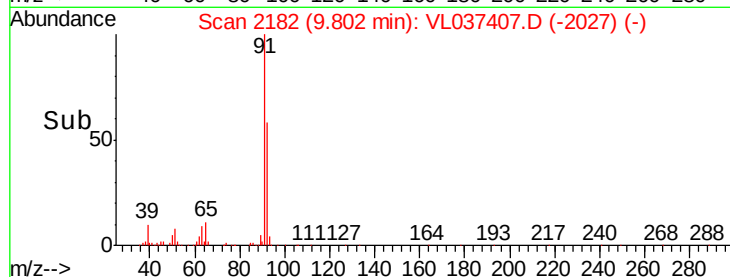
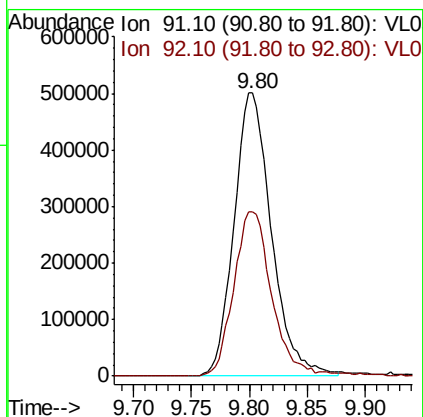
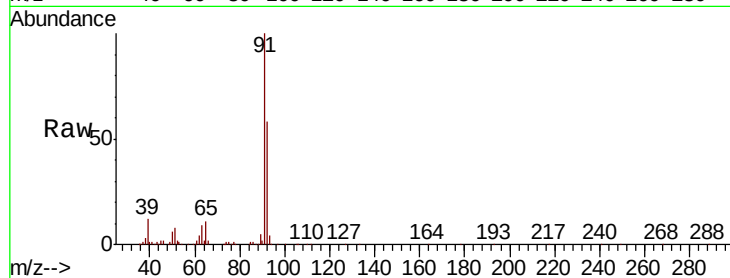
92 59.7 48.1 72.1

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#54

1,2-Dibromoethane

Concen: 9.394 ppbv

RT: 10.61 min Scan# 2432

Delta R.T. 0.00 min

Lab File: VL037407.D

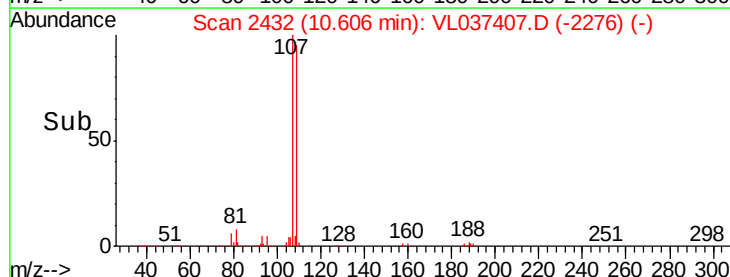
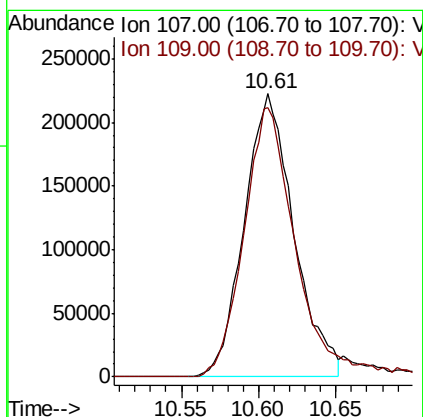
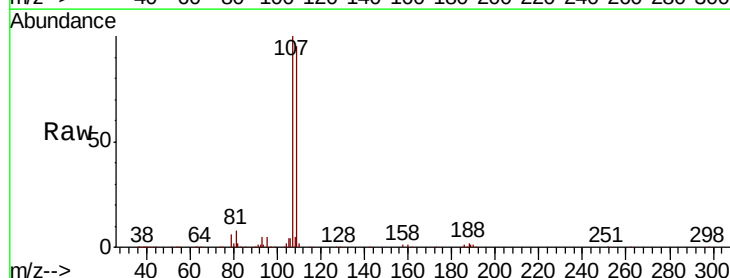
Acq: 12 Aug 2021 2:29

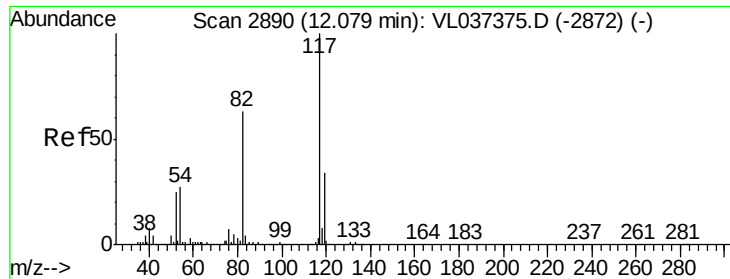
Tgt Ion: 107 Resp: 496401

Ion Ratio Lower Upper

107 100

109 95.1 76.7 115.1





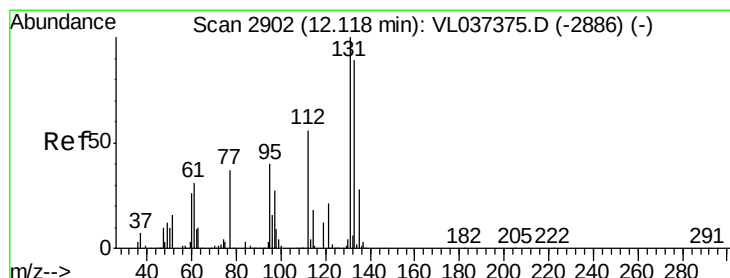
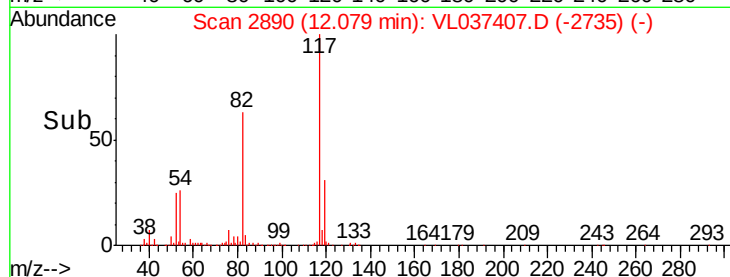
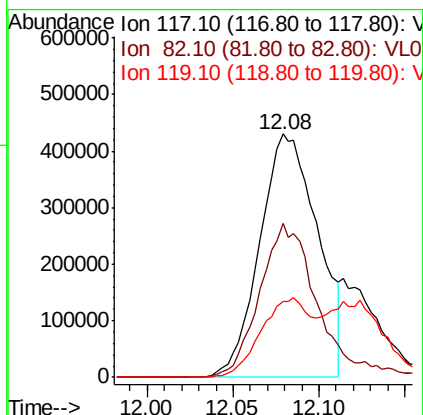
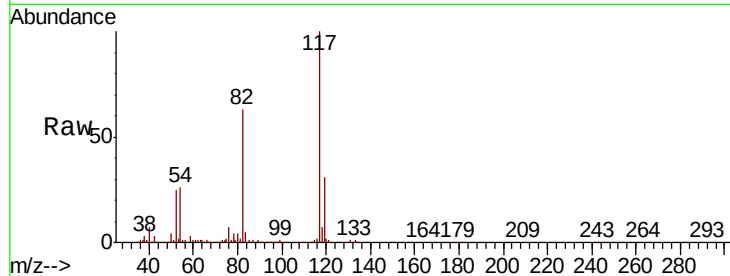
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.3	52.6	78.8
119	26.0	46.7	70.1#

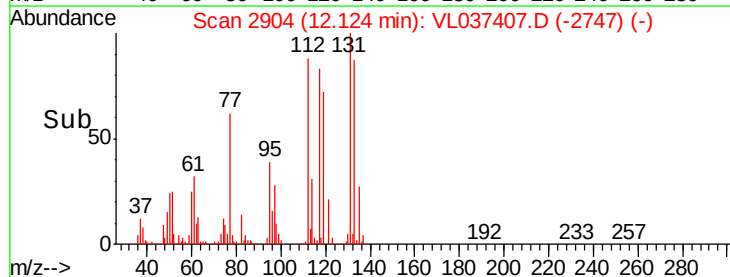
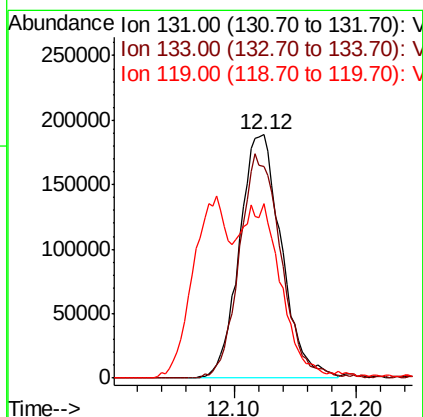
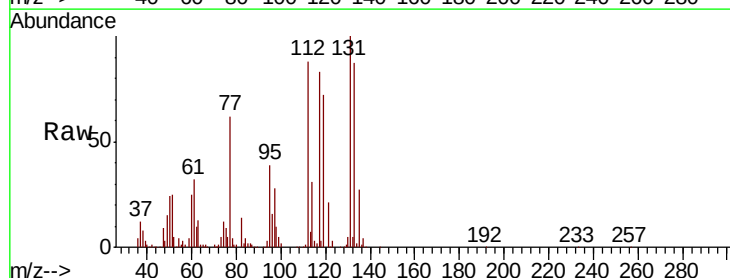
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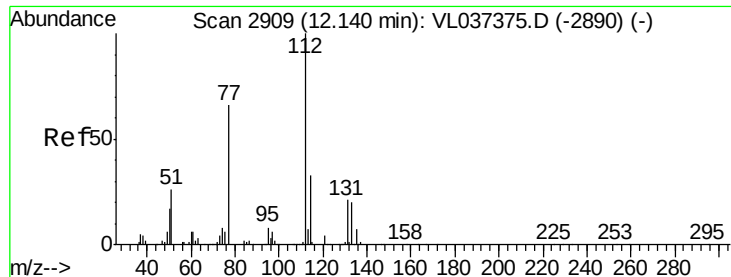
apatel
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#56
1,1,1,2-Tetrachloroethane
Concen: 11.458 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.01 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
131	100		
133	92.3	80.3	120.5
119	72.3	126.7	190.1#





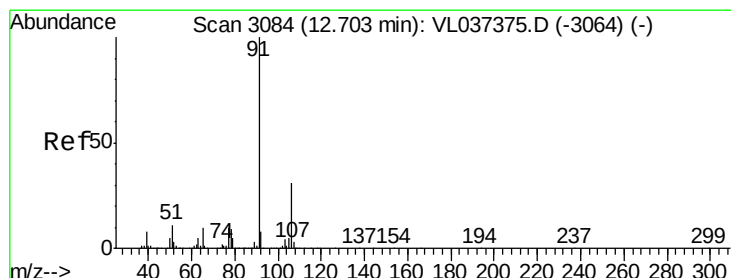
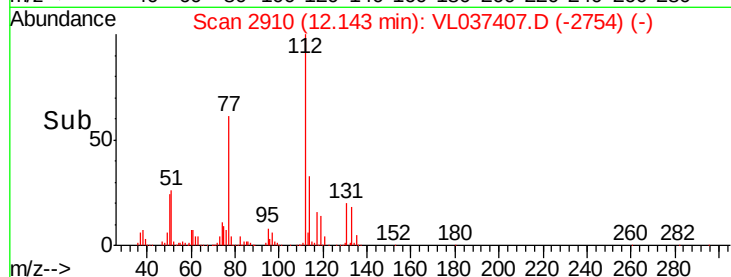
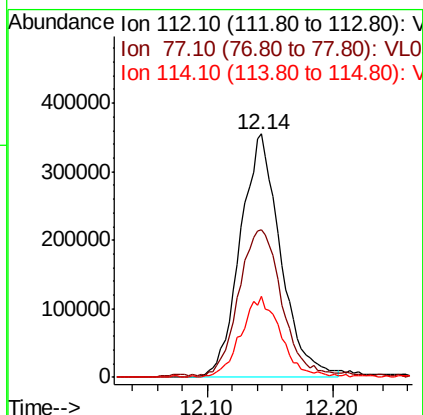
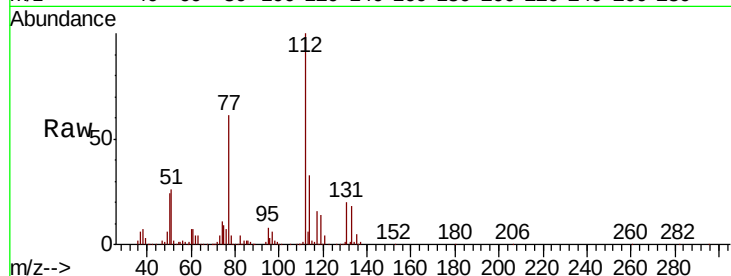
#57
Chlorobenzene
Concen: 10.168 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. 0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	60.1	52.9	79.3
114	33.3	29.8	36.4

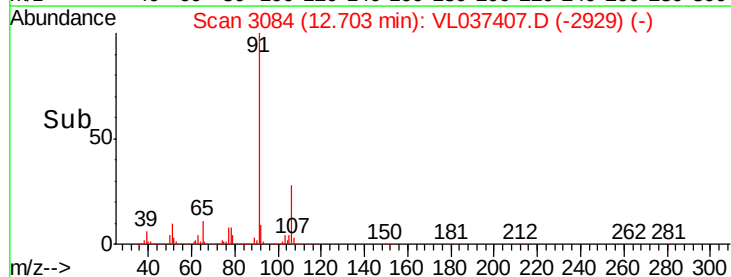
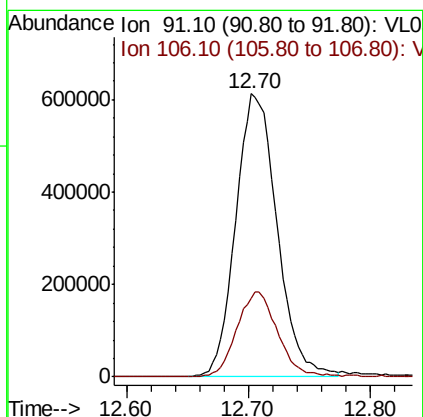
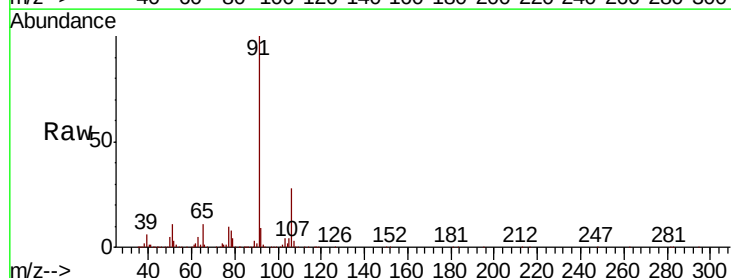
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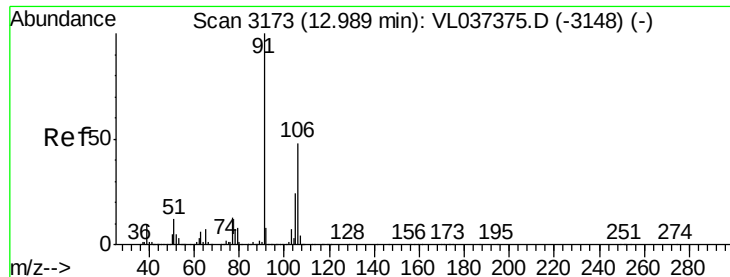
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#58
Ethyl Benzene
Concen: 10.644 ppbv
RT: 12.70 min Scan# 3084
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.8	24.6	36.8





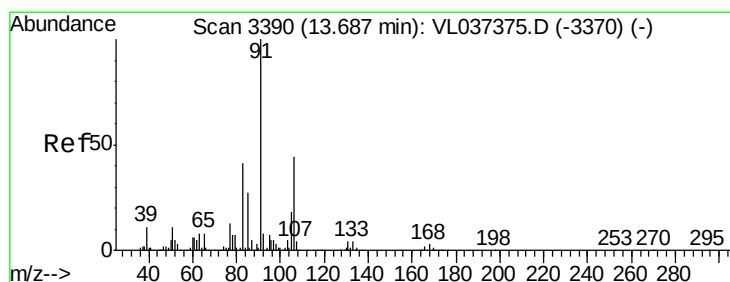
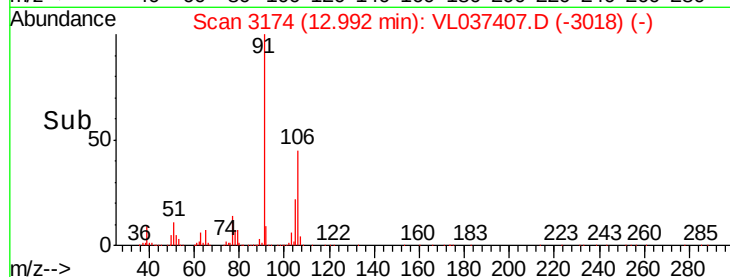
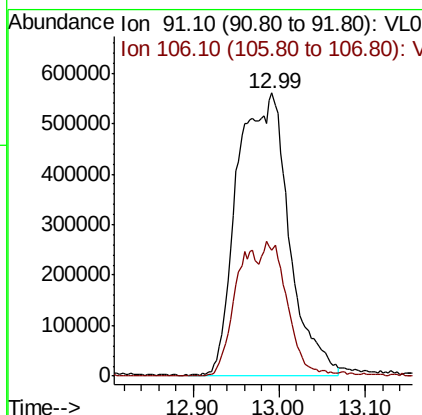
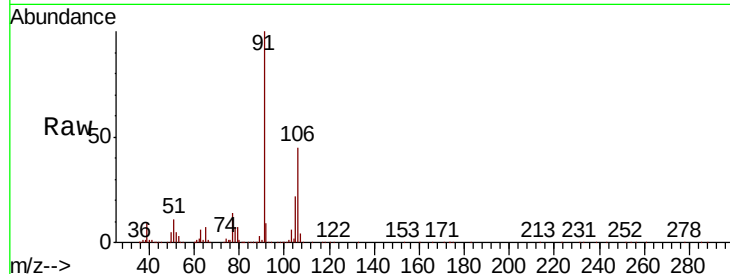
#59
m/p-Xylene
Concen: 20.166 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. 0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 2341352
Ion Ratio Lower Upper
91 100
106 45.0 36.6 55.0

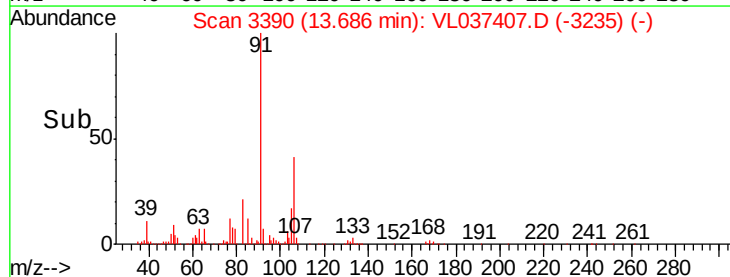
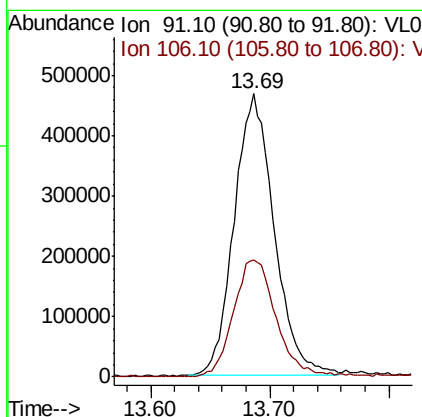
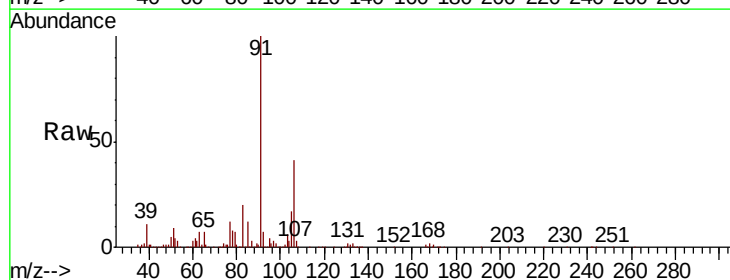
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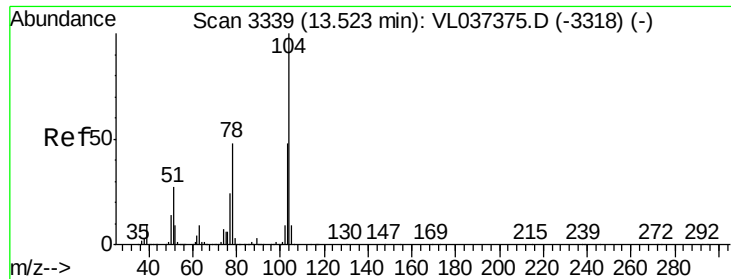
apatel
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#60
o-Xylene
Concen: 10.133 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion: 91 Resp: 1090766
Ion Ratio Lower Upper
91 100
106 44.1 23.2 69.6





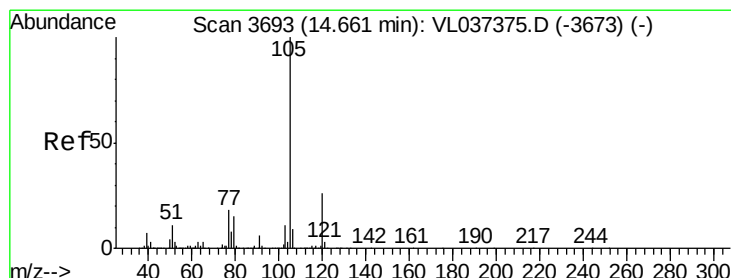
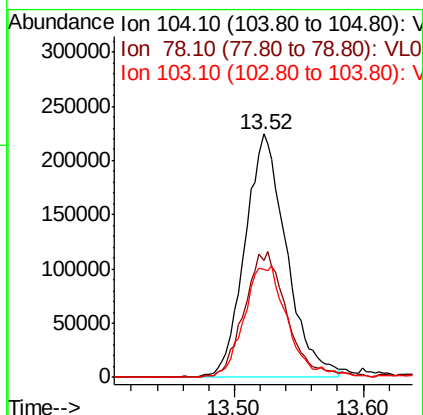
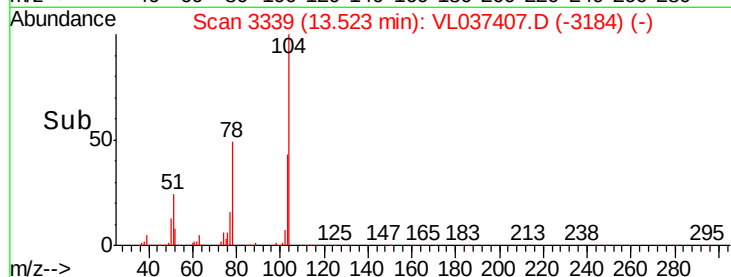
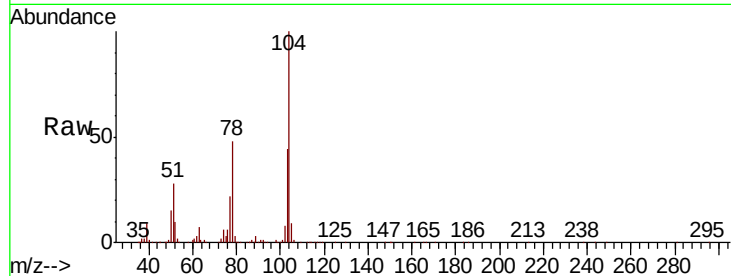
#61
Stvrene
Concen: 9.023 ppbv
RT: 13.52 min Scan# 3339
Delta R.T. -0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.3	41.4	62.0
103	48.6	40.6	61.0

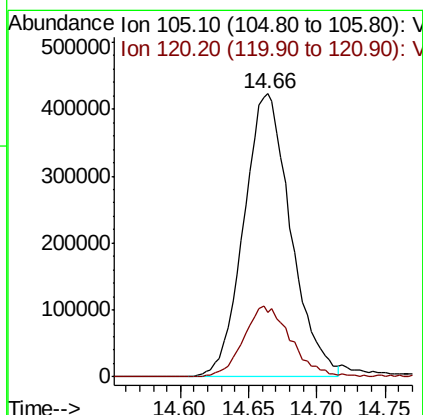
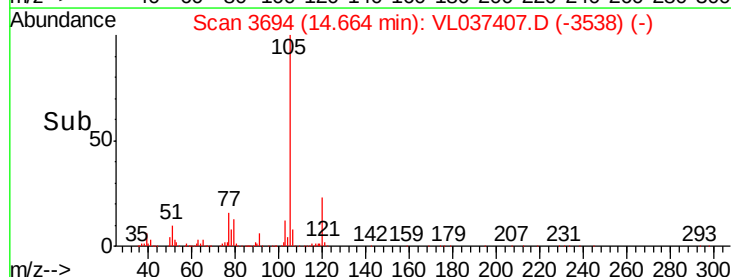
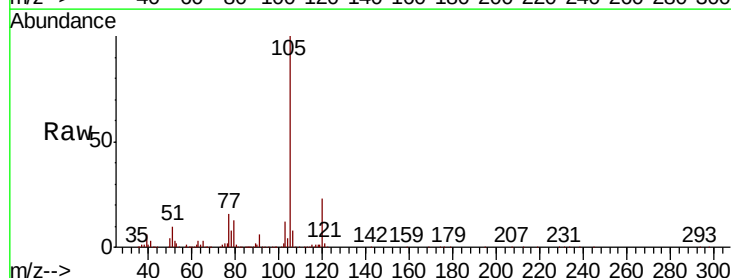
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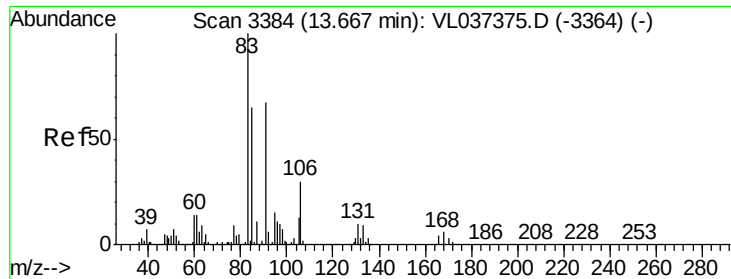
apatel
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#62
Isopropylbenzene
Concen: 6.646 ppbv
RT: 14.66 min Scan# 3694
Delta R.T. 0.00 min
Lab File: VL037407.D
Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	21.4	32.0





#63

1,1,2,2-Tetrachloroethane

Concen: 4.171 ppbv

RT: 13.67 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

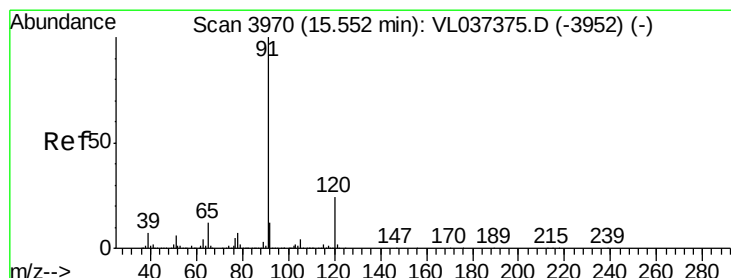
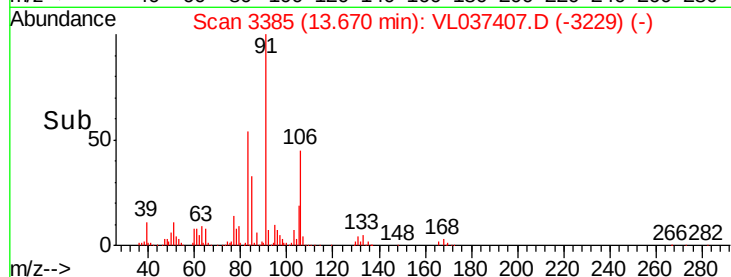
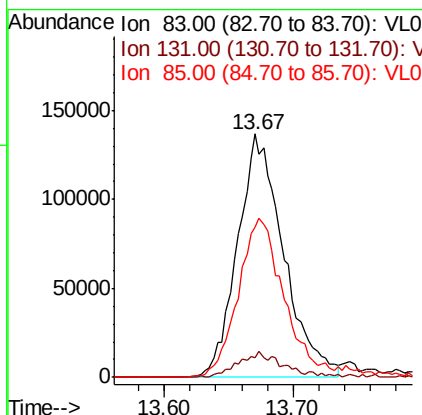
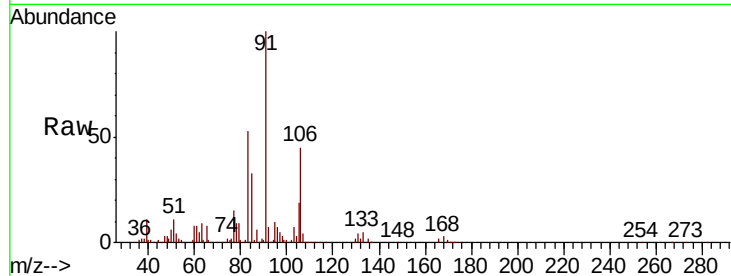
ClientSampleId :

VSTDCCC010EC

Tot Ion:	83	Resp:	339488
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.1	15.4
85	68.1	32.6	97.7

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#64

n-propylbenzene

Concen: 2.612 ppbv m

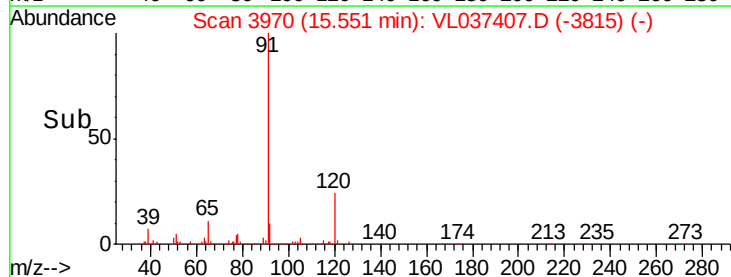
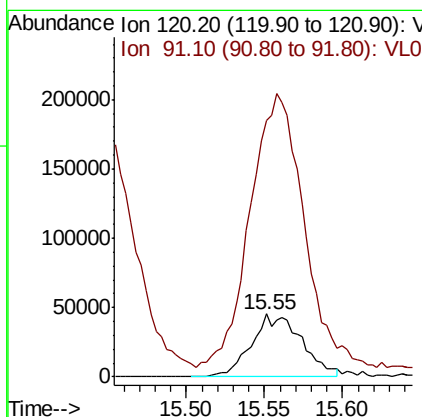
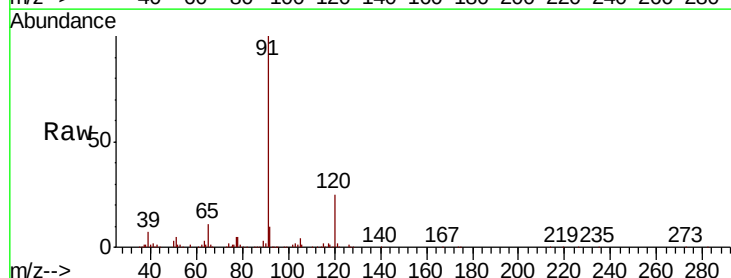
RT: 15.55 min Scan# 3970

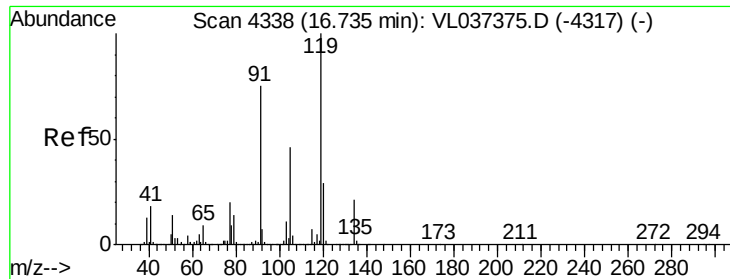
Delta R.T. -0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Tgt Ion:	120	Resp:	100525
Ion Ratio	Lower	Upper	
120	100		
91	527.0	386.1	579.1





#65

tert-Butylbenzene

Concen: 0.479 ppbv m

RT: 16.74 min Scan# 4341

Delta R.T. 0.01 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

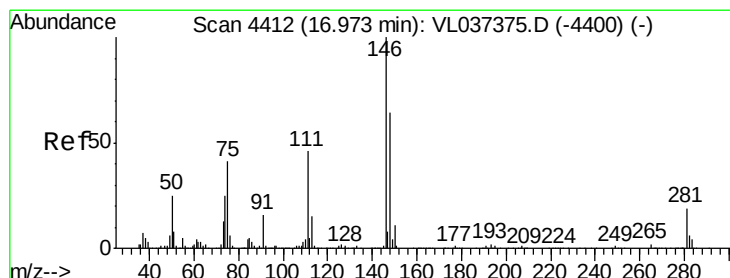
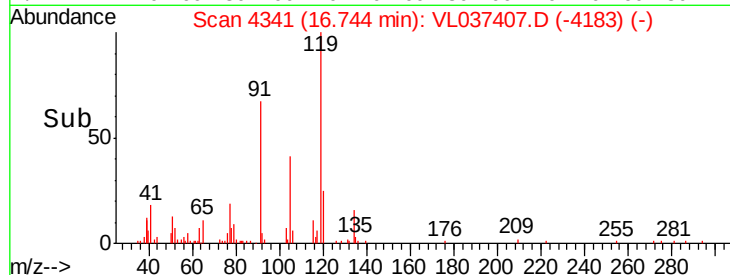
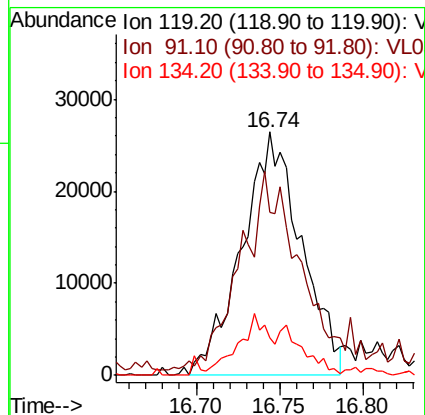
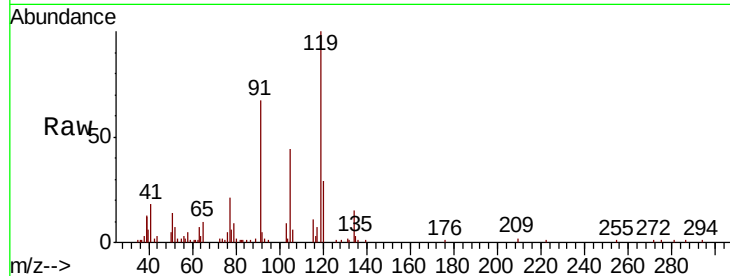
ClientSampleId :

VSTDCCC010EC

Tot Ion:	119	Resp:	65487
Ion Ratio	Lower	Upper	
119	100		
91	0.0	63.3	94.9#
134	24.5	16.3	24.5#

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#66

Benzyl Chloride

Concen: 0.643 ppbv m

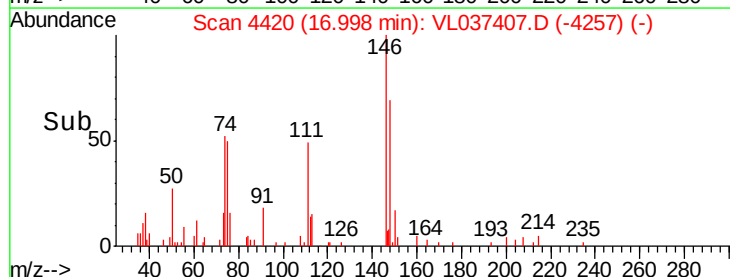
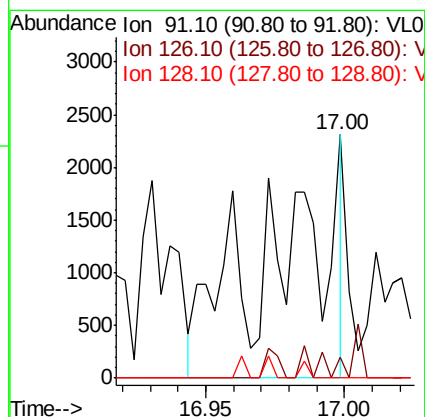
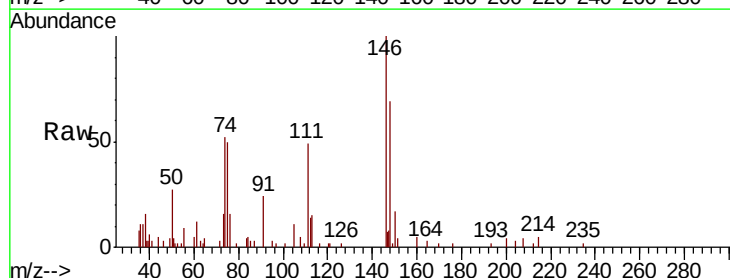
RT: 17.00 min Scan# 4420

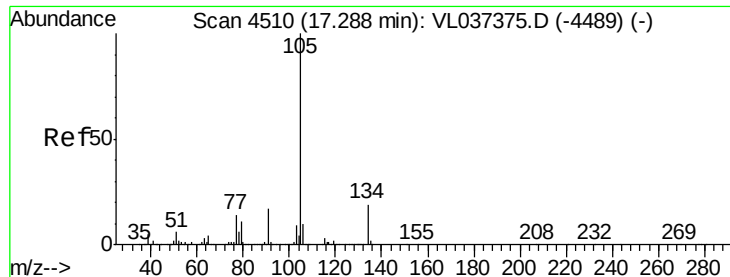
Delta R.T. 0.03 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Tgt Ion:	91	Resp:	3729
Ion Ratio	Lower	Upper	
91	100		
126	0.0	13.5	20.3#
128	0.0	5.4	8.0#





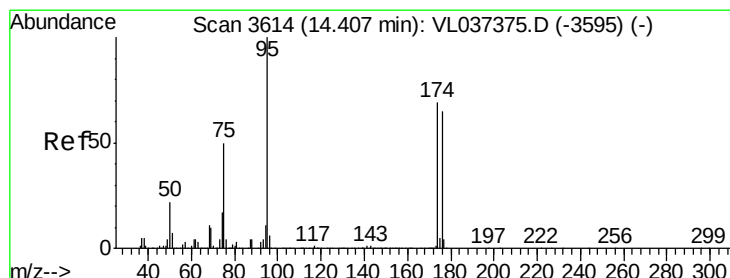
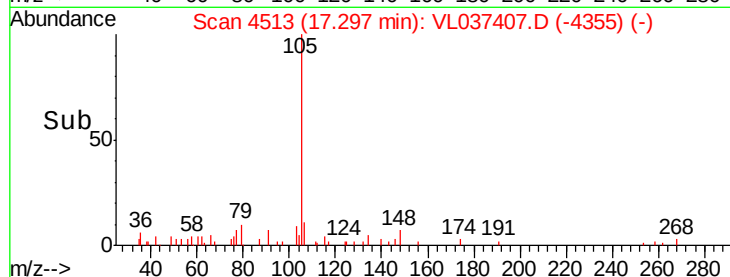
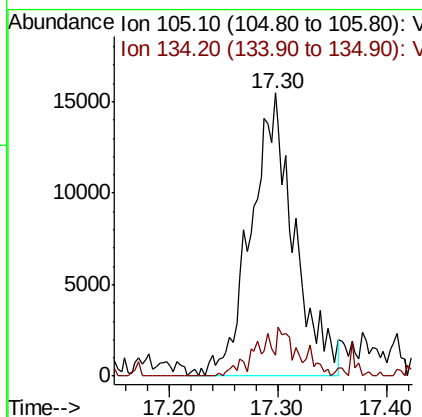
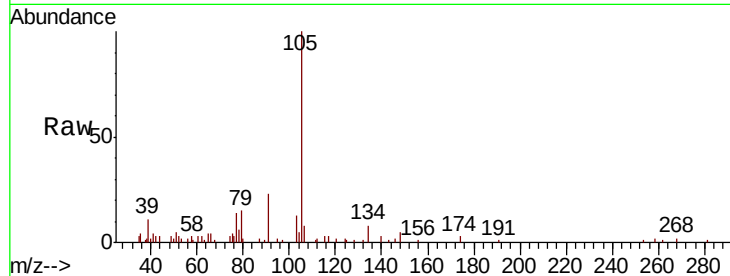
#67
 sec-Butylbenzene
 Concen: 0.227 ppbv
 RT: 17.30 min Scan# 4513
 Delta R.T. 0.01 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
105	100		
134	0.0	14.8	22.2#

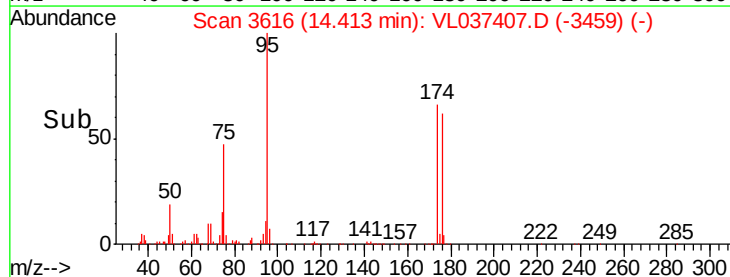
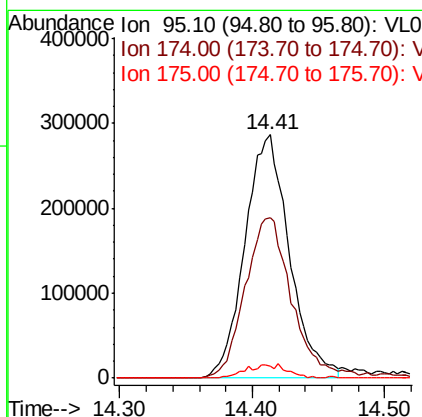
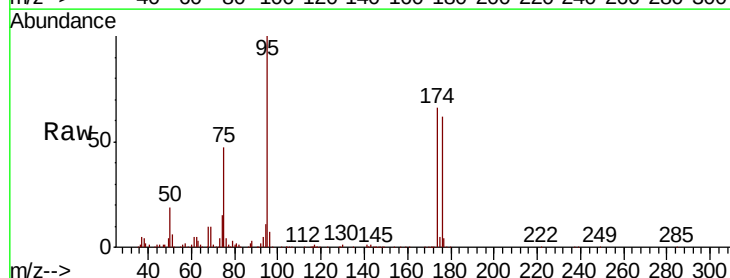
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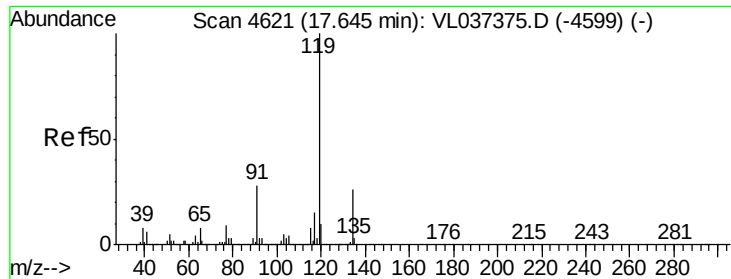
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.868 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. 0.01 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
95	100		
174	70.2	58.3	87.5
175	5.5	4.3	6.5





#69

p-Isopropyltoluene

Concen: 0.068 ppbv

RT: 17.65 min Scan# 4624

Delta R.T. 0.01 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

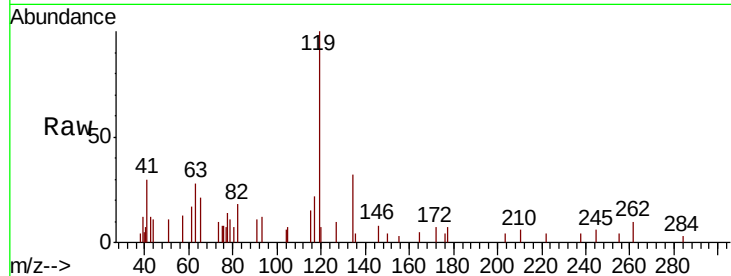
ClientSampleId :

VSTDCCC010EC

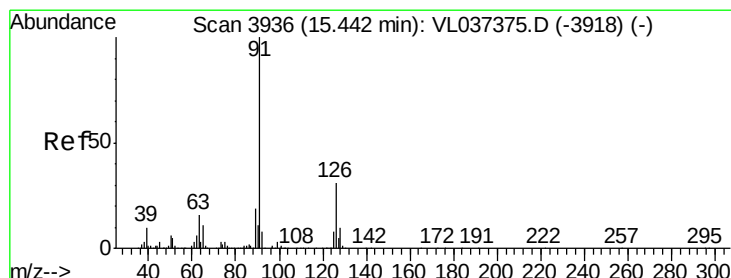
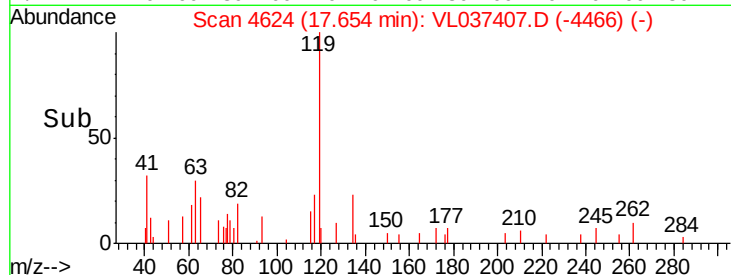
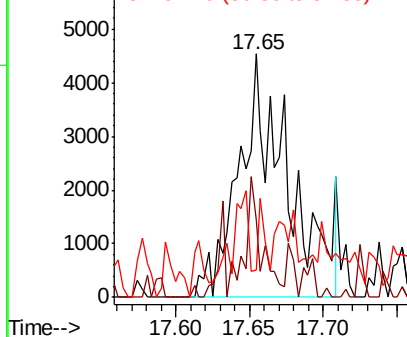
Tot Ion:	119	Resp:	10400
Ion Ratio	Lower	Upper	
119	100		
134	0.0	20.5	30.7#
91	0.0	22.5	33.7#

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Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V



#71

2-Chlorotoluene

Concen: 4.165 ppbv

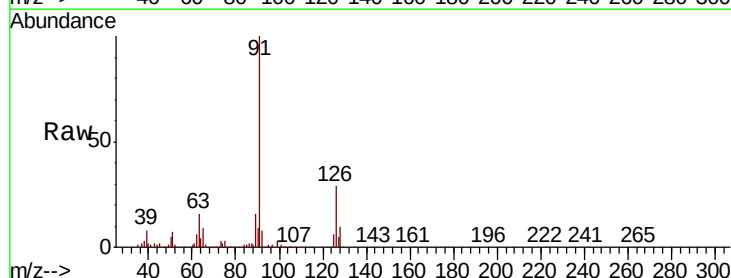
RT: 15.45 min Scan# 3938

Delta R.T. 0.01 min

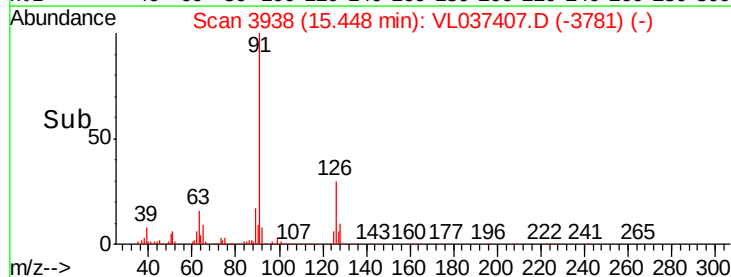
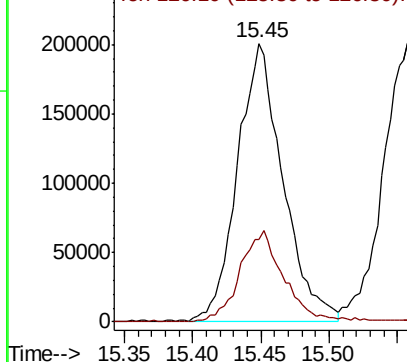
Lab File: VL037407.D

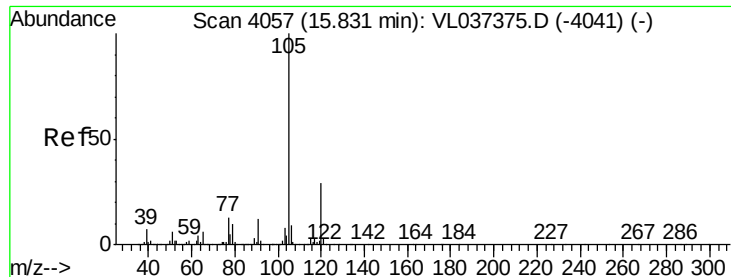
Acq: 12 Aug 2021 2:29

Tgt Ion:	91	Resp:	461057
Ion Ratio	Lower	Upper	
91	100		
126	33.0	13.3	53.3



Abundance Ion 91.10 (90.80 to 91.80): V
Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 1.767 ppbv m

RT: 15.84 min Scan# 4060

Delta R.T. 0.01 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Instrument :

MSVOA_L

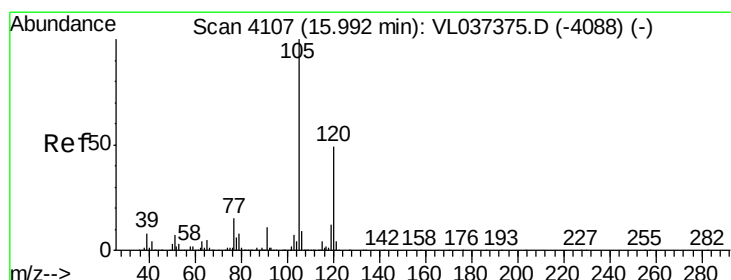
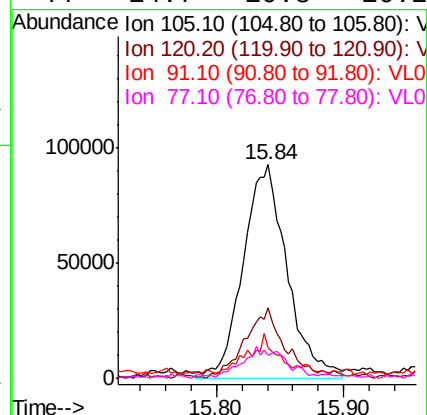
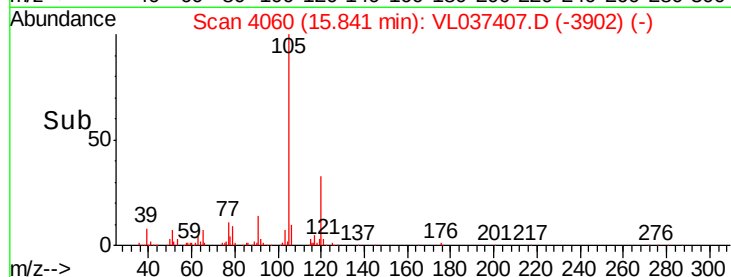
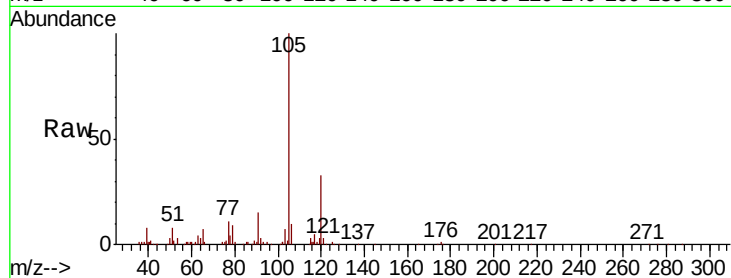
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	0.0	24.5	36.7#
91	0.0	9.9	14.9#
77	14.7	10.8	16.2

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#73

1,3,5-Trimethylbenzene

Concen: 1.164 ppbv

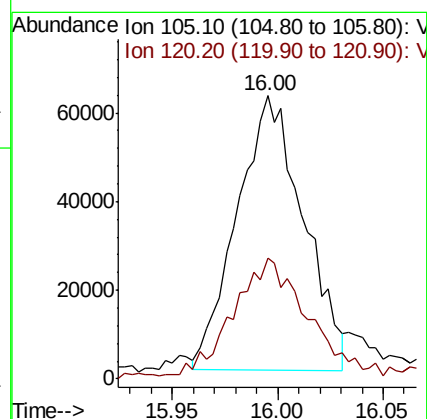
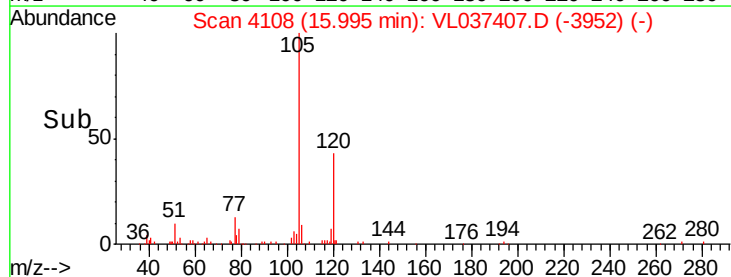
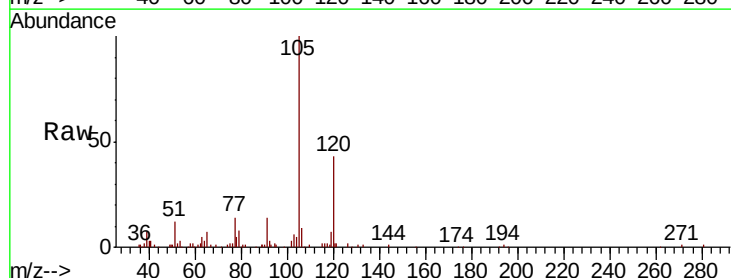
RT: 16.00 min Scan# 4108

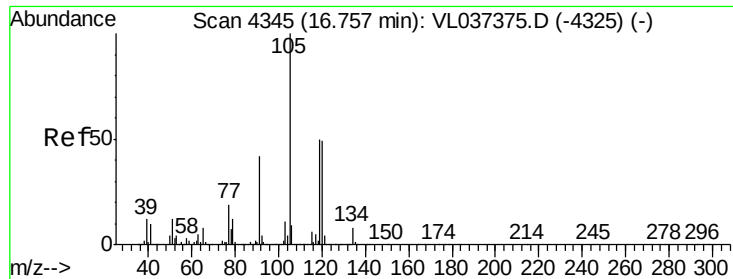
Delta R.T. 0.00 min

Lab File: VL037407.D

Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Resp Lower	Upper
105	100		
120	43.9	38.9	58.3





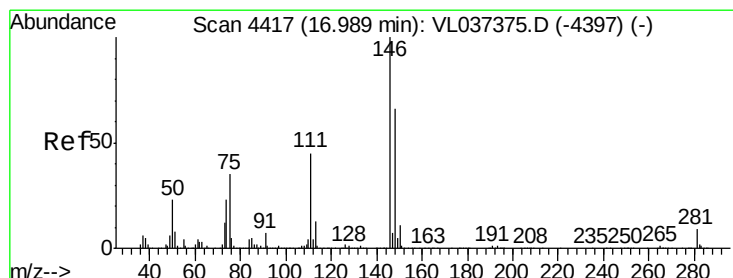
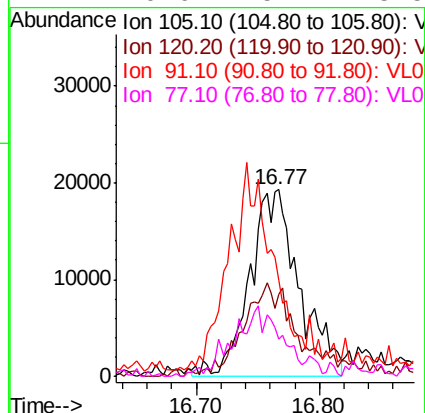
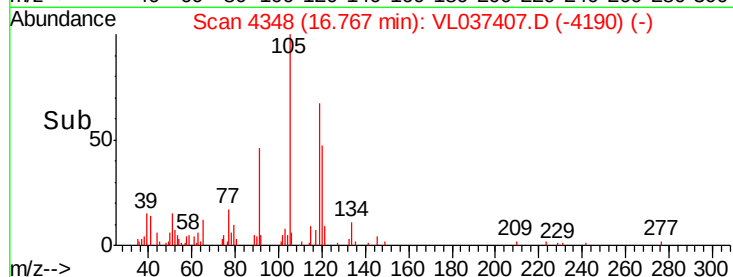
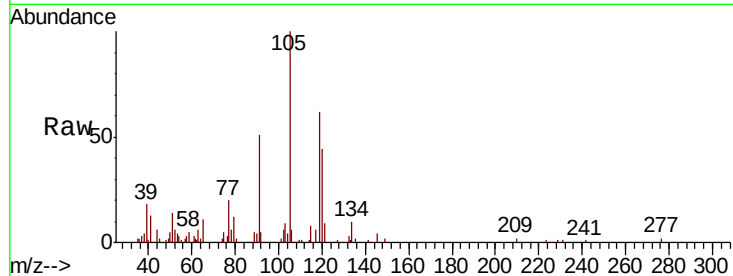
#74
 1,2,4-Trimethylbenzene
 Concen: 0.457 ppbv m
 RT: 16.77 min Scan# 4348
 Delta R.T. 0.01 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
105	100		
120	43.7	39.0	58.4
91	51.2	34.4	51.6
77	19.6	15.7	23.5

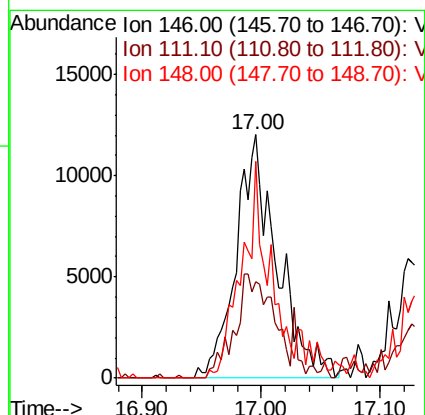
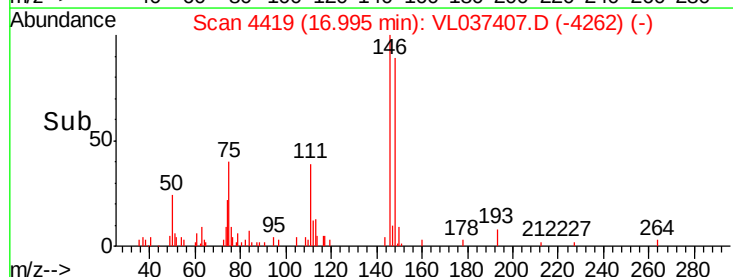
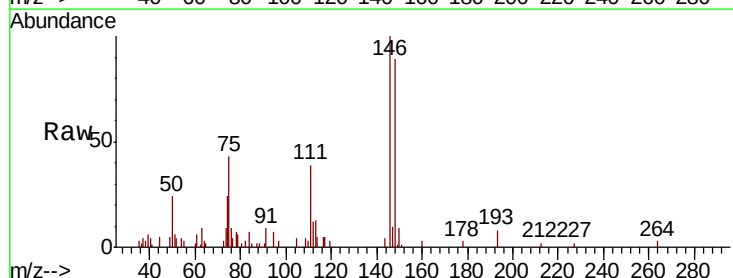
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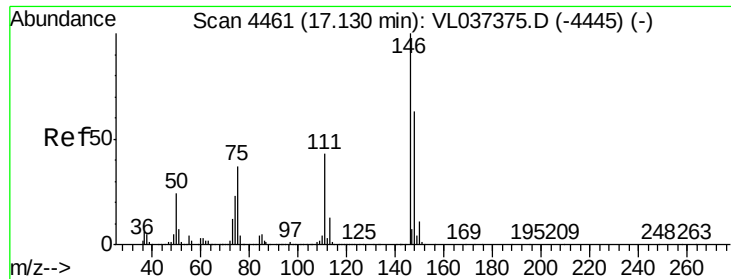
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#75
 1,3-Dichlorobenzene
 Concen: 0.397 ppbv m
 RT: 17.00 min Scan# 4419
 Delta R.T. 0.01 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.8	68.4
148	0.0	31.9	95.5#





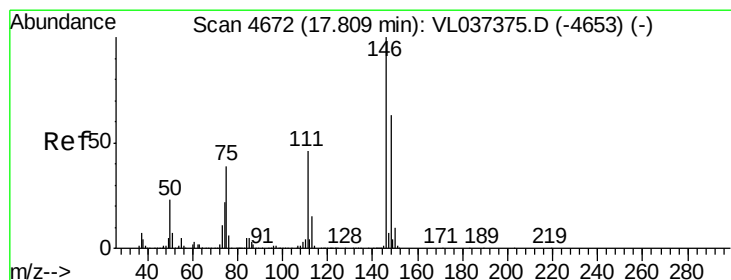
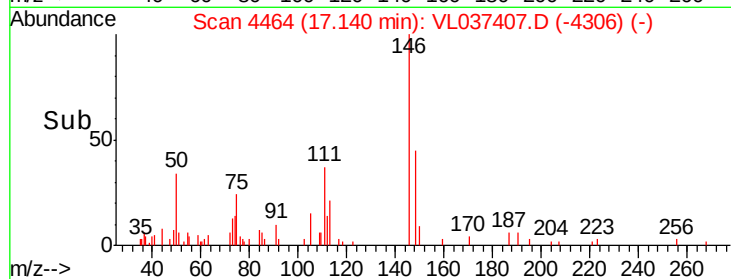
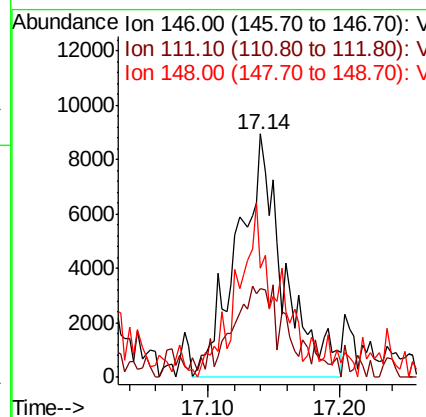
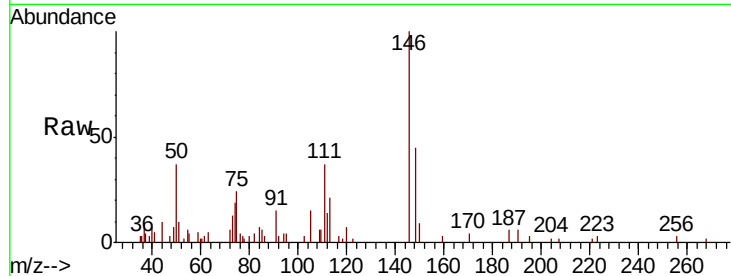
#76
 1,4-Dichlorobenzene
 Concen: 0.310 ppbv m
 RT: 17.14 min Scan# 4464
 Delta R.T. 0.01 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.8	68.4#
148	0.0	33.3	99.8#

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#77
 1,2-Dichlorobenzene
 Concen: 0.088 ppbv m
 RT: 17.83 min Scan# 4680
 Delta R.T. 0.03 min
 Lab File: VL037407.D
 Acq: 12 Aug 2021 2:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.4	70.2#
148	0.0	32.3	96.9#

