

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031967.D
 Acq On : 3 May 2018 16:17
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050318

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:03 PM

Quant Time: May 04 03:35:12 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 0
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1390769	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	3364219	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2855142m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2163497	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	1221588	6.65	ppbv	99
3) Chlorodifluoromethane	3.10	51	1011173	7.73	ppbv	99
4) Chloromethane	3.25	50	585624	8.50	ppbv	100
5) Vinyl Chloride	3.38	62	609253	7.83	ppbv	98
6) Bromomethane	3.60	94	407131	8.04	ppbv	93
7) Chloroethane	3.69	64	247453	8.36	ppbv	88
8) Dichlorotetrafluoroethane	3.31	85	1435727	7.85	ppbv	99
9) Propene	3.12	41	464219	9.68	ppbv	99
10) Heptane	8.39	43	1456538	8.83	ppbv	99
11) Trichlorofluoromethane	4.10	101	1668512	7.52	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1045886	6.69	ppbv	100
13) Ethanol	3.74	45	126175	7.05	ppbv #	100
14) Bromoethene	3.88	108	469110	8.12	ppbv	97
15) Acetone	4.00	43	1150130	5.85	ppbv	99
16) 1,3-Butadiene	3.45	39	552304	8.74	ppbv	96
17) tert-Butyl alcohol	4.46	59	481681	5.92	ppbv	99
18) 1,1-Dichloroethene	4.46	96	493485	7.20	ppbv	94
19) Isopropyl Alcohol	4.12	45	819494	7.71	ppbv	99
20) Methylene Chloride	4.51	84	446684	6.73	ppbv	95
21) Allyl Chloride	4.59	41	789025	7.04	ppbv	100
22) trans-1,2-Dichloroethene	5.08	96	573833	7.55	ppbv	98
23) Vinyl Acetate	5.27	43	1928196	8.58	ppbv	100
24) 1,1-Dichloroethane	5.21	63	1703941	8.13	ppbv	100
25) Ethyl Acetate	5.89	43	2932151	8.69	ppbv	100
26) Hexane	5.90	57	1377625	8.68	ppbv	99
27) Carbon Disulfide	4.73	76	1366016	7.68	ppbv	100
28) Methyl tert-Butyl Ether	5.23	73	1663871	8.53	ppbv	100
29) Chloroform	5.97	83	2160345	8.61	ppbv	100
30) Cyclohexane	7.38	84	1050879	9.94	ppbv	99
31) cis-1,2-Dichloroethene	5.76	61	1319112	9.09	ppbv	95
32) 1,1,1-Trichloroethane	6.75	97	2042823	8.83	ppbv	98
34) 2-Butanone	5.44	43	1777724	6.41	ppbv	100
35) Carbon Tetrachloride	7.27	117	2073221	7.78	ppbv	100
36) Benzene	7.14	78	2577874	8.13	ppbv	97
37) 1,2-Dichloroethane	6.54	62	1688577	7.41	ppbv	100
38) Trichloroethene	8.10	130	907059	7.54	ppbv	95
39) 1,2-Dichloropropane	7.87	63	821931	7.45	ppbv	96
40) 1,4-Dioxane	8.09	88	348646	7.01	ppbv #	1
41) Tetrahydrofuran	6.27	42	953028	7.88	ppbv	100
42) Bromodichloromethane	8.05	83	1879754	7.40	ppbv	100
43) Methyl Methacrylate	8.27	69	836934	7.84	ppbv	99

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Quant Time: May 04 03:35:12 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	3707758	7.25	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1212164	8.56	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	1444848	8.27	ppbv	97
47) 1,1,2-Trichloroethane	9.76	97	955745	7.32	ppbv	98
48) Dibromochloromethane	10.60	129	1648930	7.88	ppbv	100
49) Bromoform	13.36	173	1340030	8.25	ppbv	99
50) 4-Methyl-2-Pentanone	9.01	43	1973800	7.53	ppbv	99
51) 2-Hexanone	10.41	43	1860261	7.80	ppbv #	100
52) Tetrachloroethene	11.52	164	899911	7.67	ppbv	98
53) Toluene	10.09	91	2762836	8.09	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1501164	7.72	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.43	131	1147071	8.82	ppbv #	58
57) Chlorobenzene	12.45	112	2148667	8.73	ppbv	99
58) Ethyl Benzene	13.01	91	3901325	9.54	ppbv	98
59) m/p-Xylene	13.30	91	6294368m	18.15	ppbv	
60) o-Xylene	14.00	91	3235377	9.29	ppbv	99
61) Styrene	13.84	104	770674	10.92	ppbv	98
62) Isopropylbenzene	14.98	105	4059998	9.13	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	2177019	8.81	ppbv	100
64) n-propylbenzene	15.87	120	1057102	9.47	ppbv	97
65) tert-Butylbenzene	17.06	119	3617203	9.11	ppbv	99
66) Benzyl Chloride	17.31	91	431791	11.98	ppbv	99
67) sec-Butylbenzene	17.61	105	5204957	9.45	ppbv	100
69) p-Isopropyltoluene	17.96	119	4323547	9.76	ppbv	99
70) n-Butylbenzene	18.86	91	4526849	9.88	ppbv	99
71) 2-Chlorotoluene	15.77	91	3156013	9.69	ppbv	100
72) 4-Ethyltoluene	16.15	105	3440796	9.74	ppbv	99
73) 1,3,5-Trimethylbenzene	16.31	105	3134915	9.59	ppbv	97
74) 1,2,4-Trimethylbenzene	17.08	105	3368702	9.32	ppbv	97
75) 1,3-Dichlorobenzene	17.31	146	2103882	9.43	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	2138063	9.69	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	2132567	9.50	ppbv	100
78) Hexachloro-1,3-Butadiene	23.69	225	1320240	12.94	ppbv	100
79) Naphthalene	22.59	128	2940881	11.69	ppbv	99
80) Naphthalene, 2-methyl-	25.23	142	1057906	17.63	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	1493314	10.70	ppbv	99

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

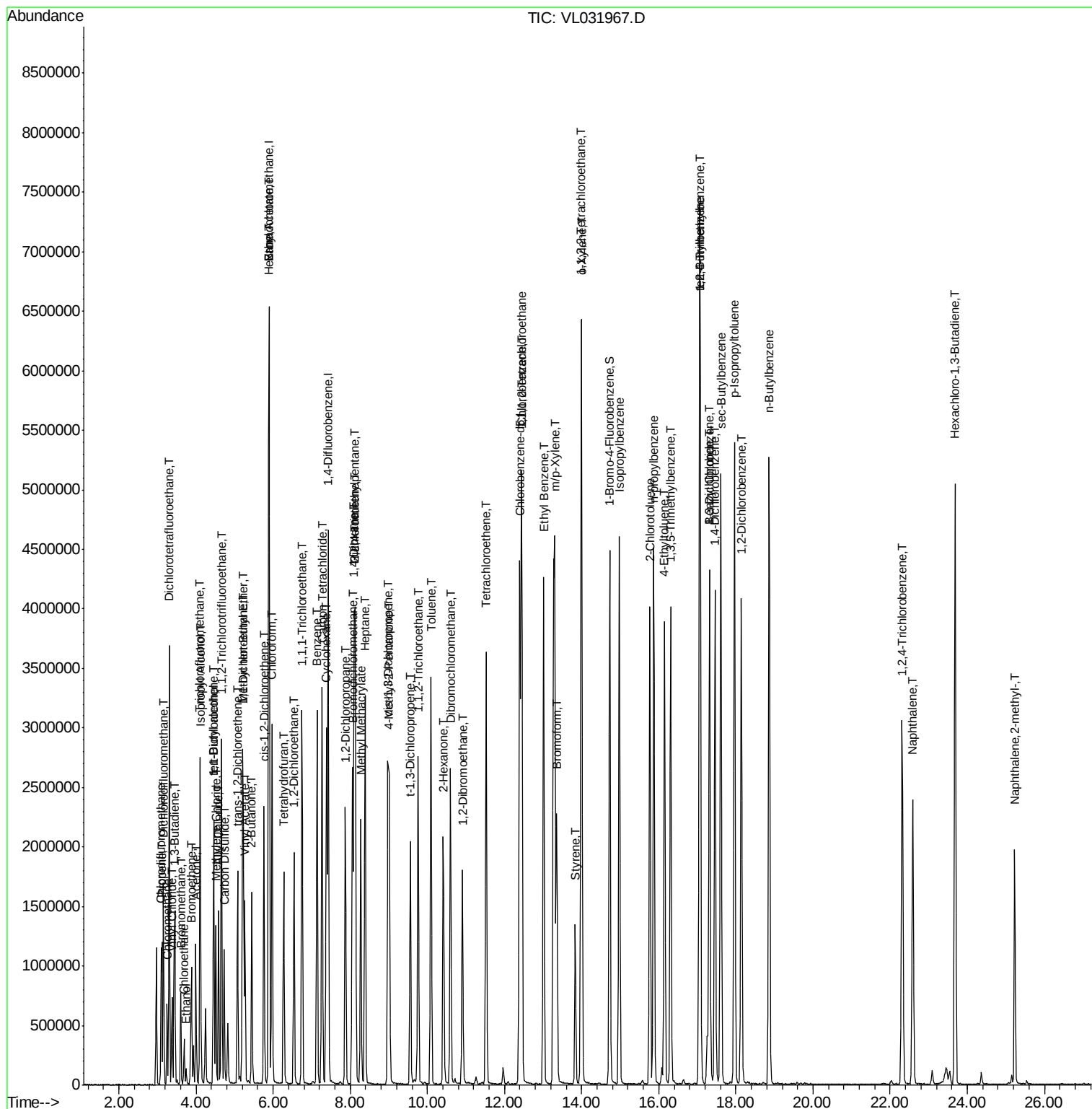
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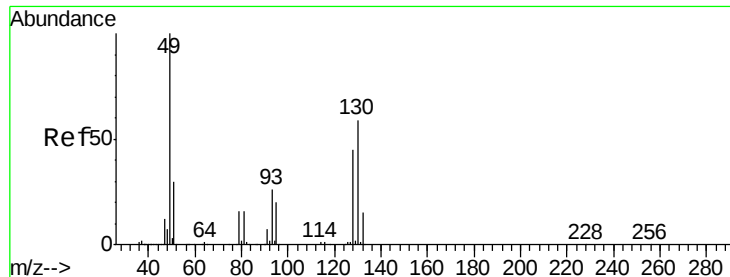
Instrument :
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ClientSampleId :
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QLast Update : Thu May 03 15:52:13 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.88 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 49 Resp: 1390769

Ion Ratio Lower Upper

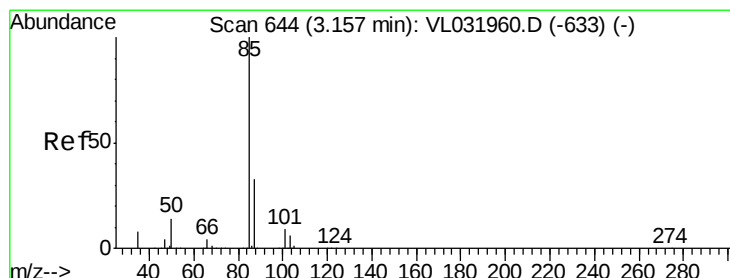
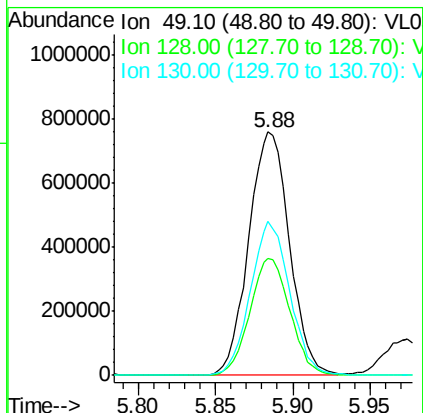
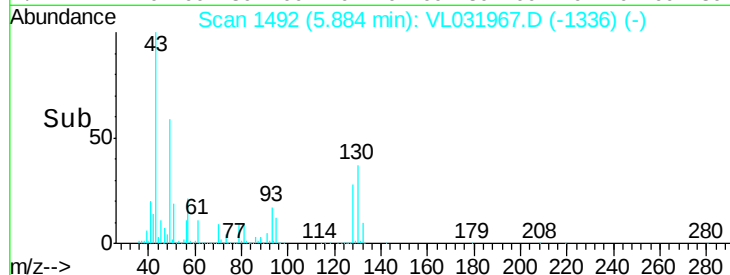
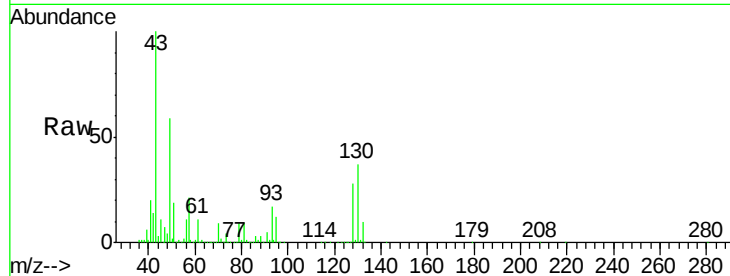
49 100

128 47.6 24.1 72.3

130 61.5 30.7 92.1

Manual Integrations
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5/4/2018 5:01:03 PM



#2

Dichlorodifluoromethane

Concen: 6.65 ppbv

RT: 3.16 min Scan# 644

Delta R.T. 0.00 min

Lab File: VL031967.D

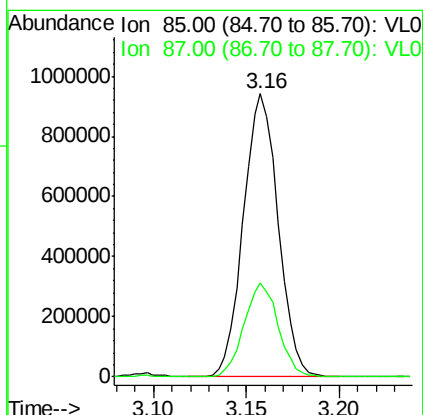
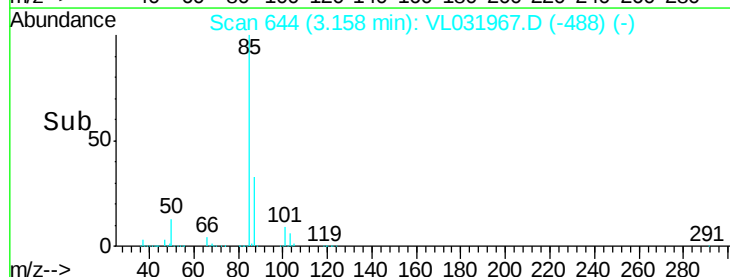
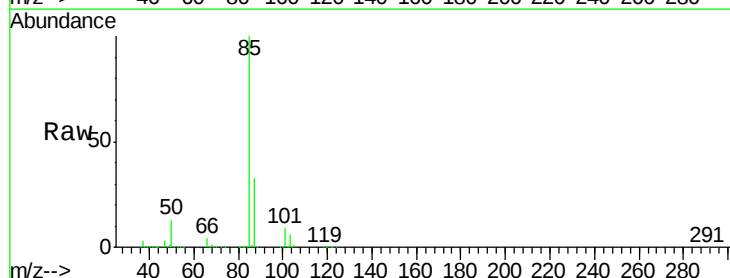
Acq: 3 May 2018 16:17

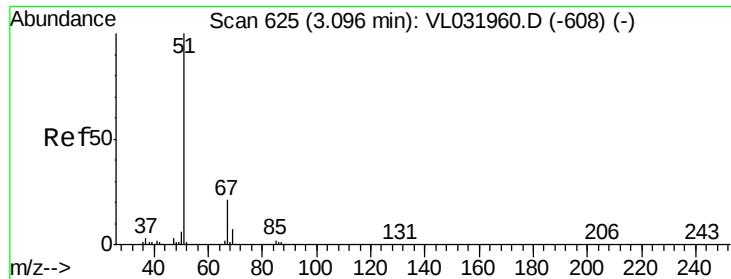
Tgt Ion: 85 Resp: 1221588

Ion Ratio Lower Upper

85 100

87 33.0 26.8 40.2





#3

Chlorodifluoromethane

Concen: 7.73 ppbv

RT: 3.10 min Scan# 625

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Tot Ion: 51 Resp: 1011173

Ion Ratio Lower Upper

51 100

67 19.5 15.9 23.9

Instrument :

MSVOA_L

ClientSampleId :

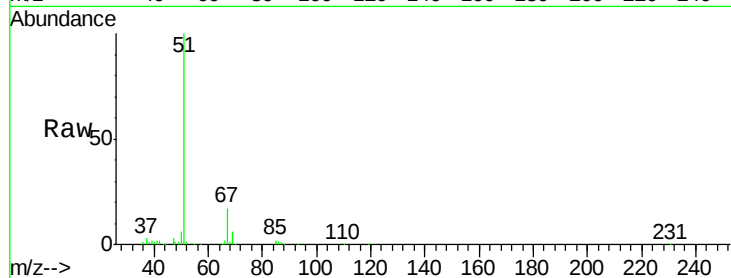
ICVVL050318

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.10

800000

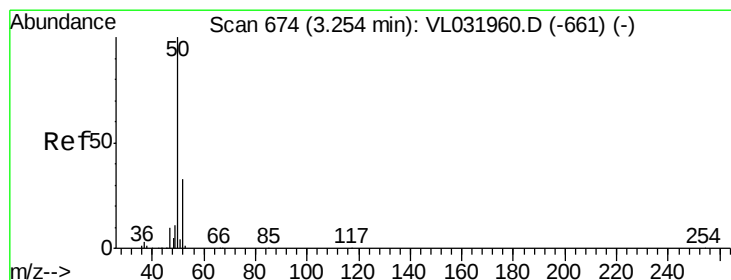
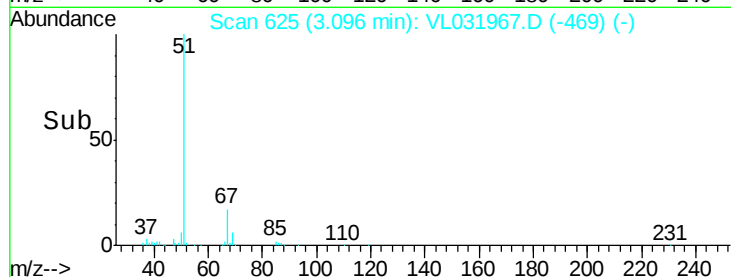
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 8.50 ppbv

RT: 3.25 min Scan# 674

Delta R.T. 0.00 min

Lab File: VL031967.D

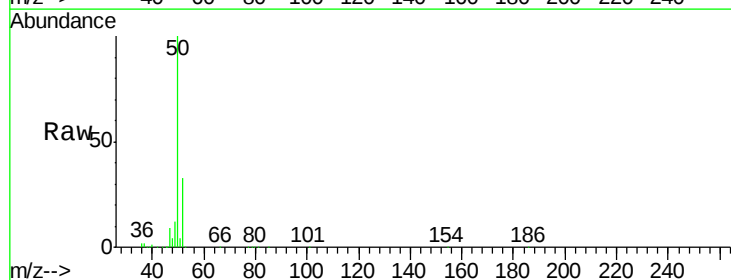
Acq: 3 May 2018 16:17

Tgt Ion: 50 Resp: 585624

Ion Ratio Lower Upper

50 100

52 33.4 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.25

400000

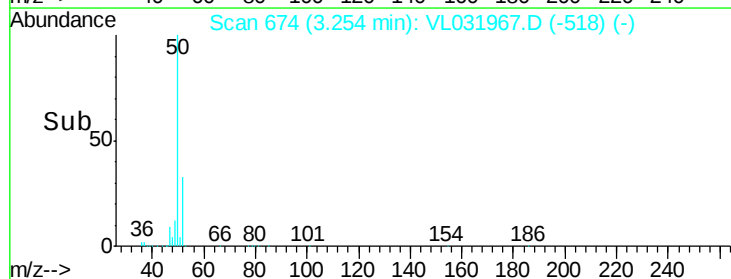
300000

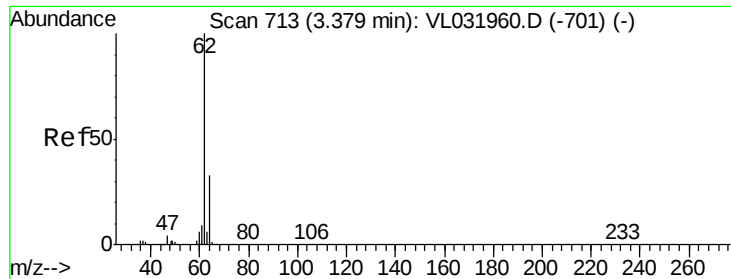
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 7.83 ppbv

RT: 3.38 min Scan# 713

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 62 Resp: 609253

Ion Ratio Lower Upper

62 100

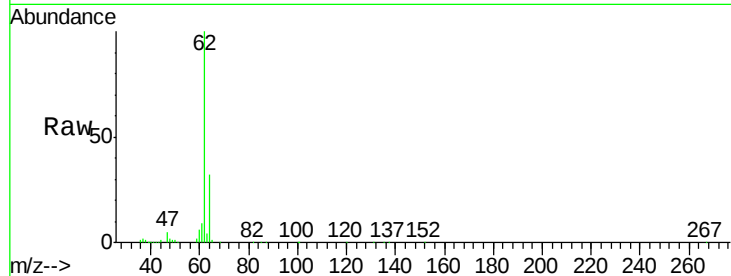
64 31.8 26.6 39.8

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.38

400000

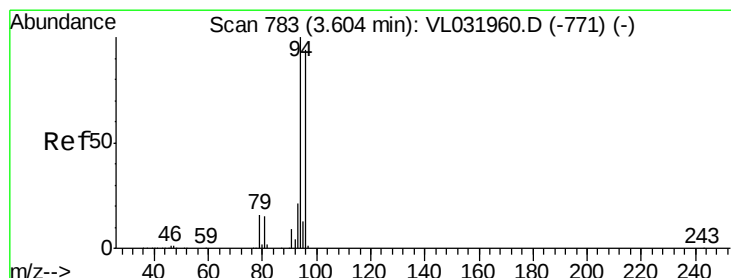
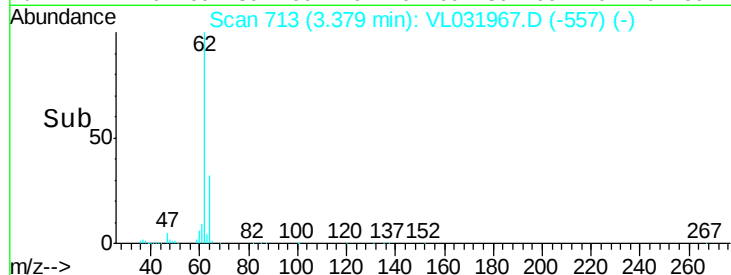
300000

200000

100000

0

Time--> 3.30 3.35 3.40 3.45



#6

Bromomethane

Concen: 8.04 ppbv

RT: 3.60 min Scan# 783

Delta R.T. 0.00 min

Lab File: VL031967.D

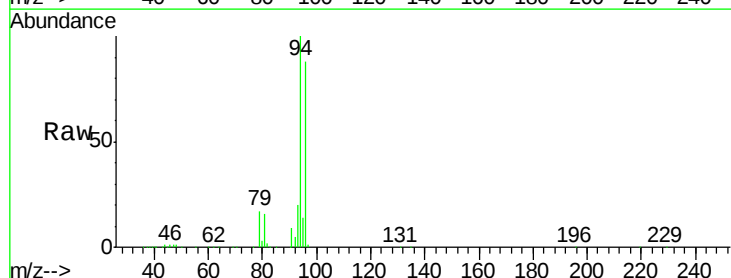
Acq: 3 May 2018 16:17

Tgt Ion: 94 Resp: 407131

Ion Ratio Lower Upper

94 100

96 87.7 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.60

300000

250000

200000

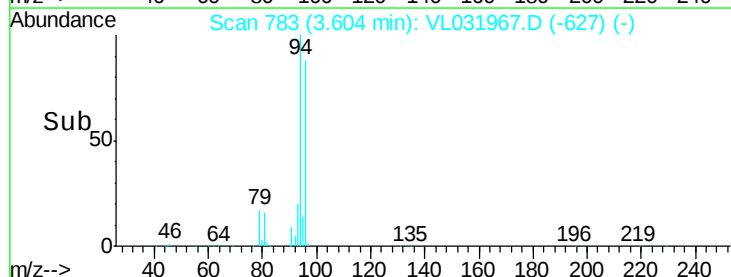
150000

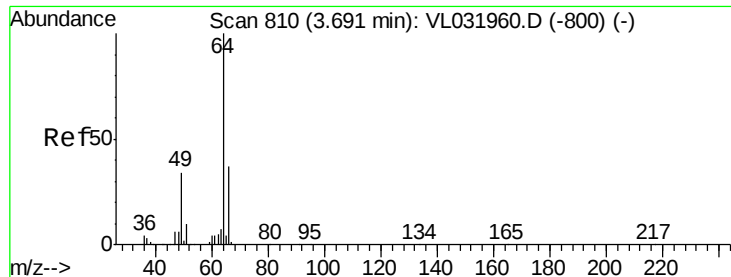
100000

50000

0

Time--> 3.55 3.60 3.65





#7

Chloroethane

Concen: 8.36 ppbv

RT: 3.69 min Scan# 811

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 64 Resp: 247453

Ion Ratio Lower Upper

64 100

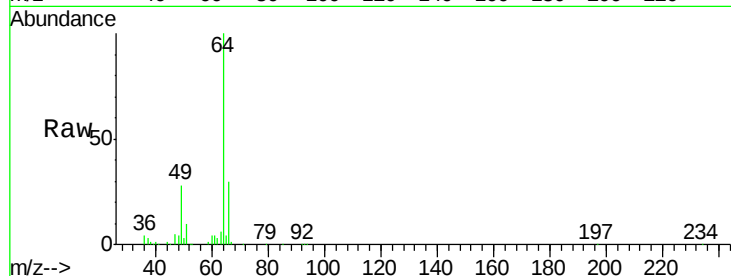
66 29.6 29.6 44.4

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.69

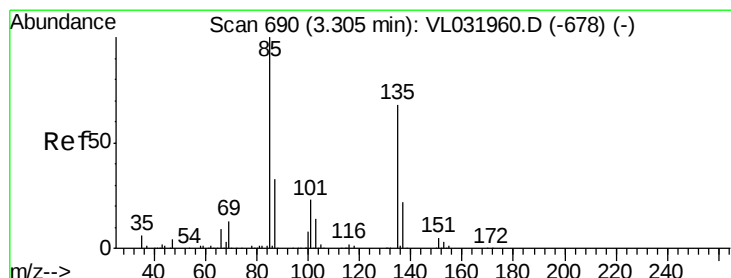
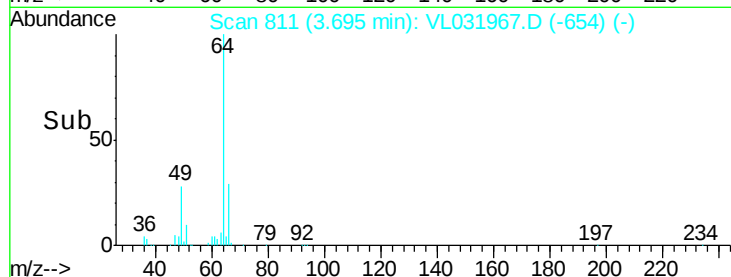
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 7.85 ppbv

RT: 3.31 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL031967.D

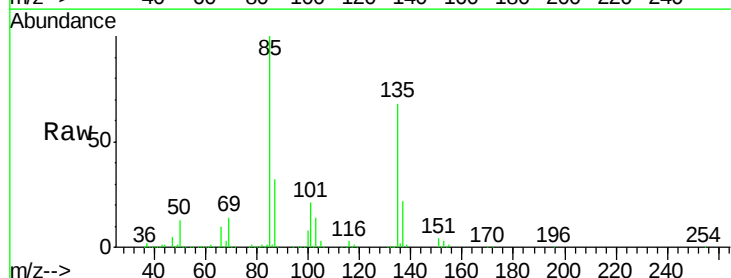
Acq: 3 May 2018 16:17

Tgt Ion: 85 Resp: 1435727

Ion Ratio Lower Upper

85 100

135 67.4 54.8 82.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1200000

1000000

800000

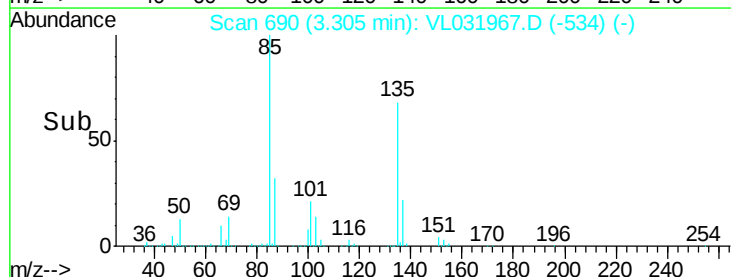
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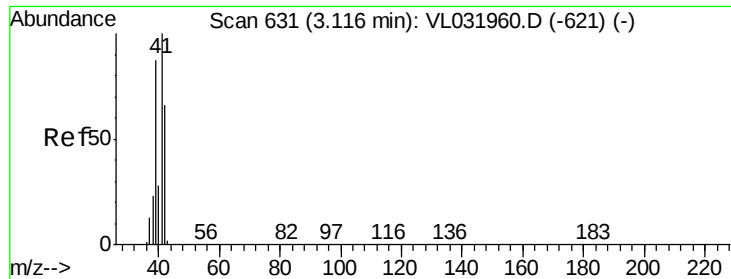
400000

200000

0

Time-->





#9

Propene

Concen: 9.68 ppbv

RT: 3.12 min Scan# 632

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 41 Resp: 464219

Ion Ratio Lower Upper

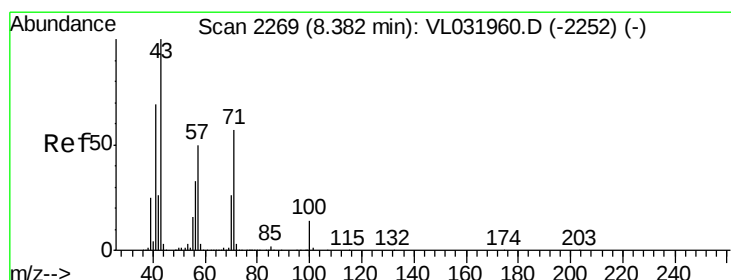
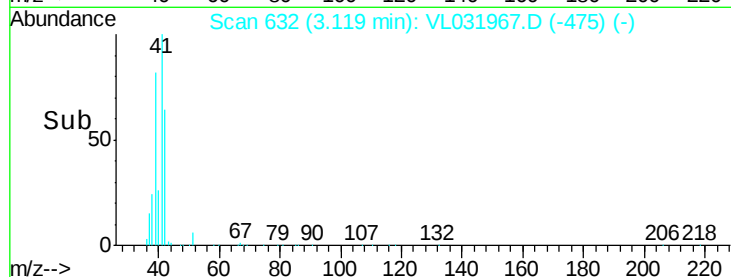
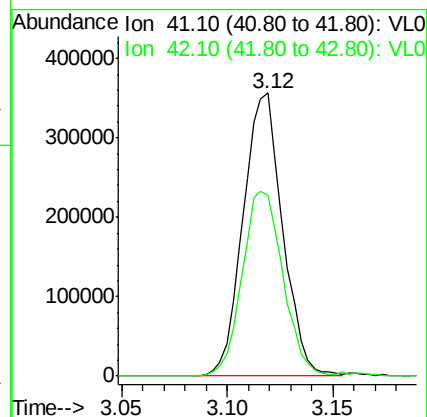
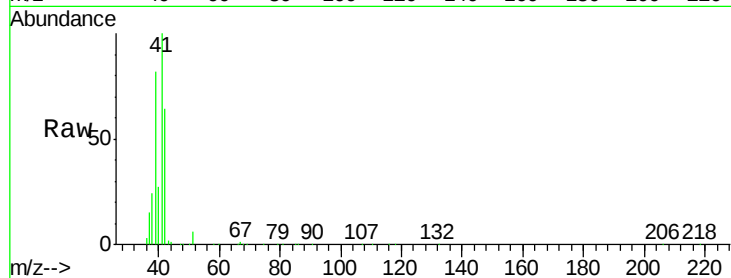
41 100

42 68.4 53.9 80.9

Manual Integrations
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5/4/2018 5:01:03 PM



#10

Heptane

Concen: 8.83 ppbv

RT: 8.39 min Scan# 2270

Delta R.T. 0.00 min

Lab File: VL031967.D

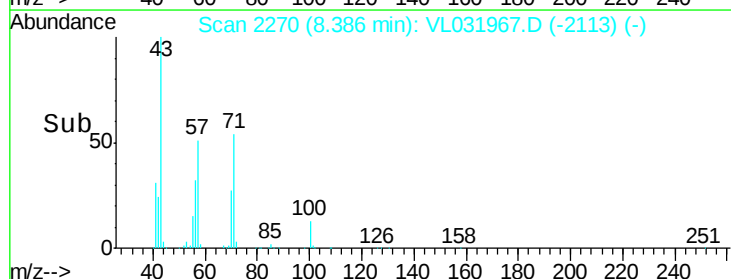
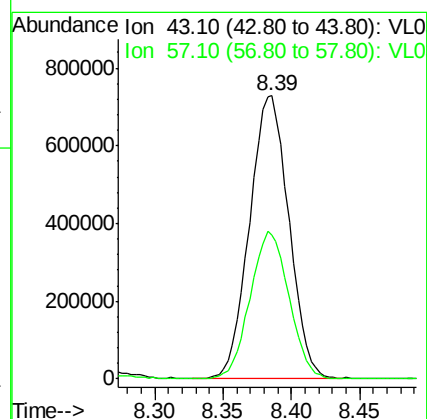
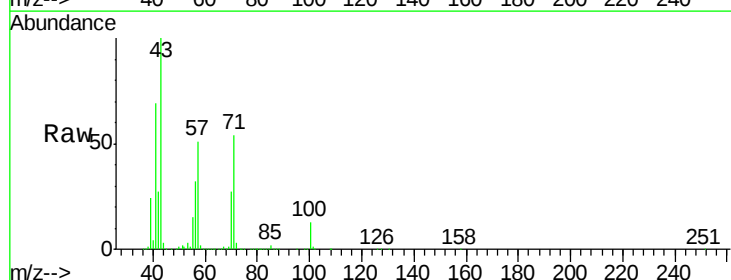
Acq: 3 May 2018 16:17

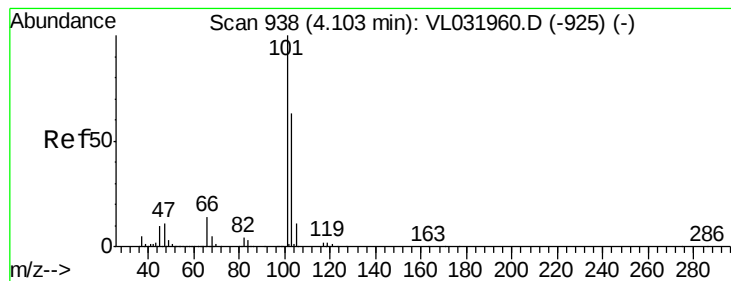
Tgt Ion: 43 Resp: 1456538

Ion Ratio Lower Upper

43 100

57 51.4 40.7 61.1





#11

Trichlorofluoromethane

Concen: 7.52 ppbv

RT: 4.10 min Scan# 938

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

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ClientSampleId :

ICVVL050318

Tot Ion:101 Resp: 1668512

Ion Ratio Lower Upper

101 100

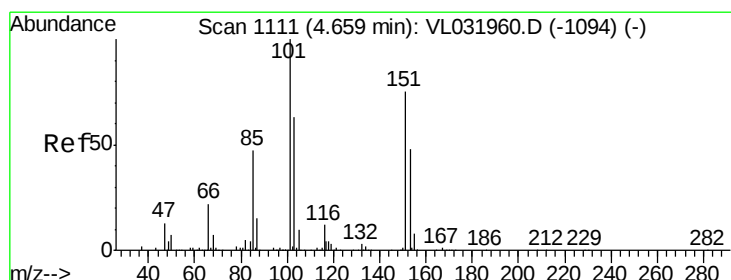
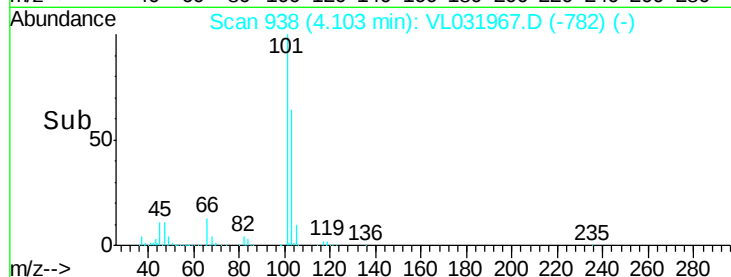
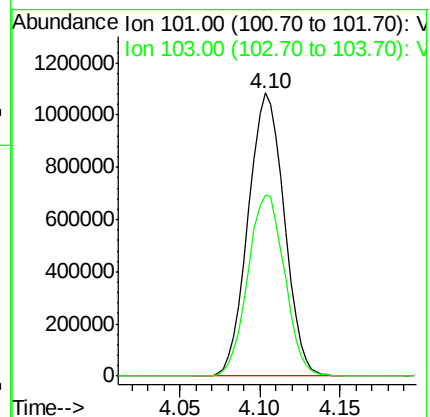
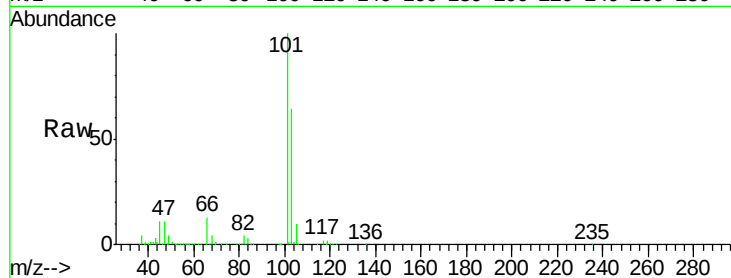
103 64.0 50.7 76.1

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 6.69 ppbv

RT: 4.66 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VL031967.D

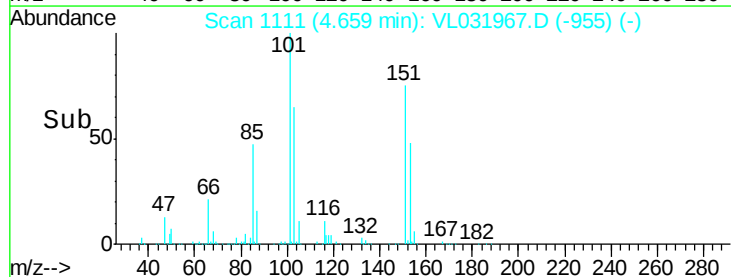
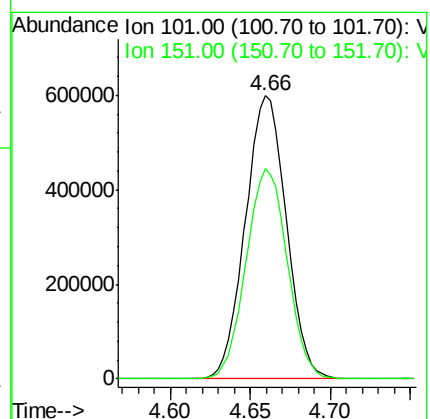
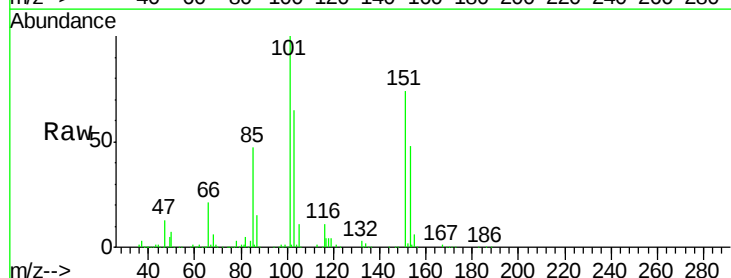
Acq: 3 May 2018 16:17

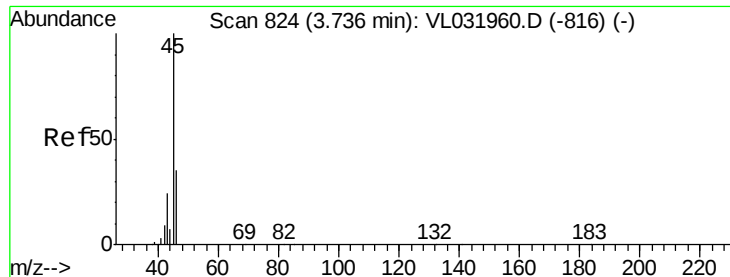
Tgt Ion:101 Resp: 1045886

Ion Ratio Lower Upper

101 100

151 74.9 60.2 90.2





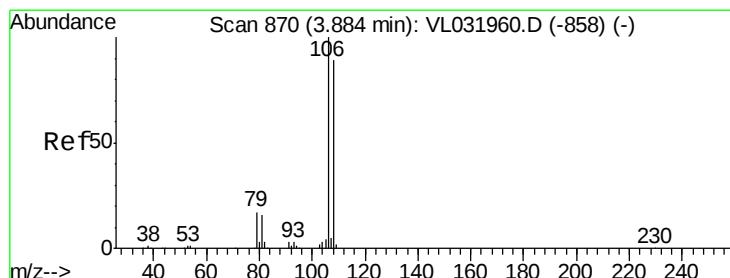
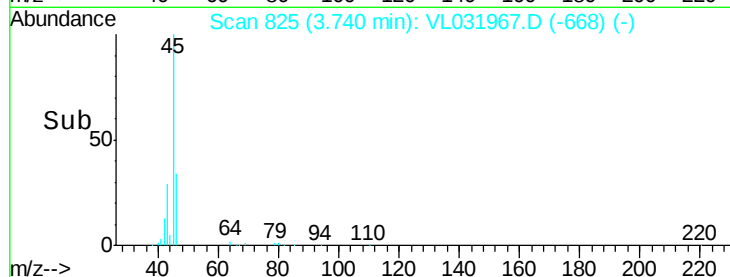
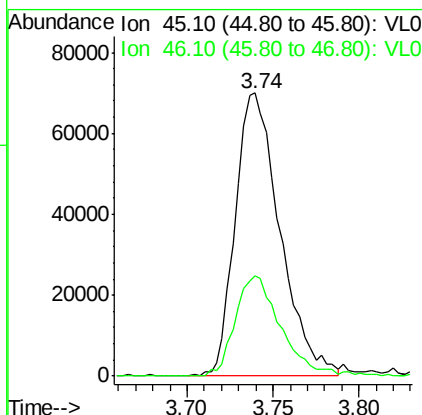
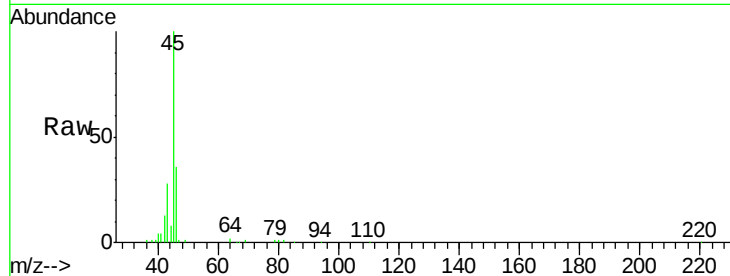
#13
Ethanol
Concen: 7.05 ppbv
RT: 3.74 min Scan# 825
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.5	0.0	0.0#

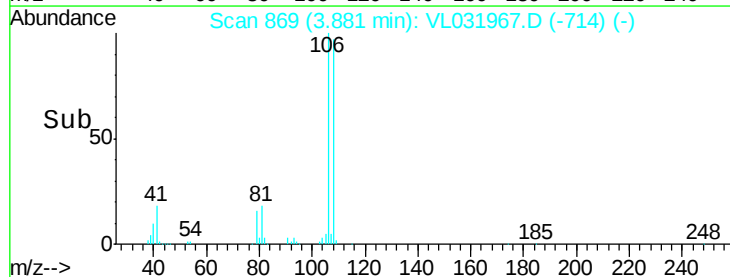
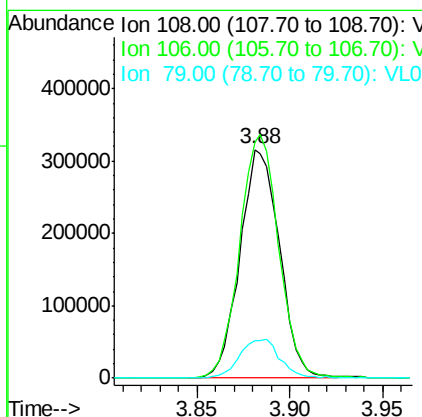
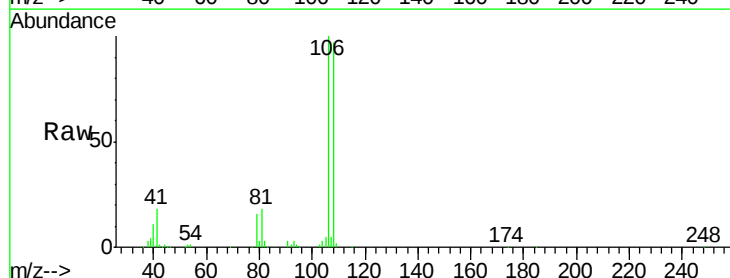
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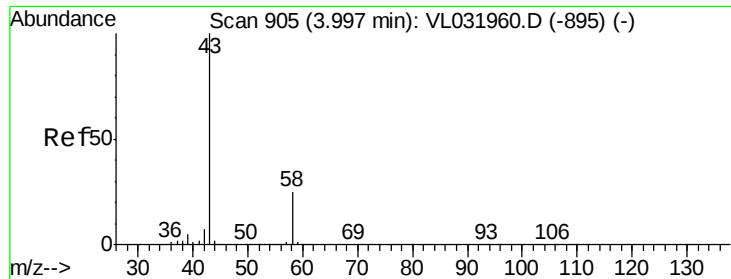
MMDadoda
5/4/2018 5:01:03 PM



#14
Bromoethene
Concen: 8.12 ppbv
RT: 3.88 min Scan# 869
Delta R.T. -0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.7	86.8	130.2
79	17.6	14.7	22.1





#15

Acetone

Concen: 5.85 ppbv

RT: 4.00 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Tot Ion: 43 Resp: 1150130

Ion Ratio Lower Upper

43 100

58 26.1 21.1 31.7

Instrument :

MSVOA_L

ClientSampleId :

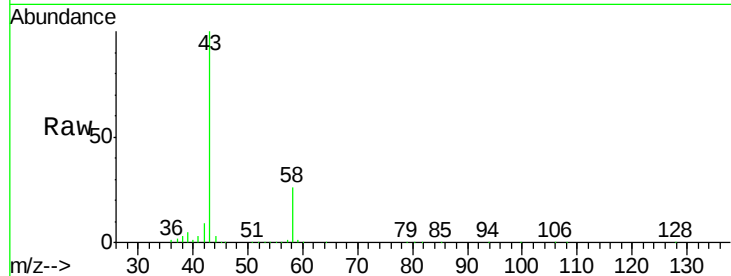
ICVVL050318

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

600000

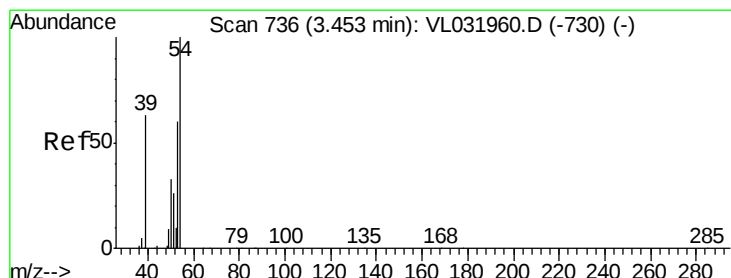
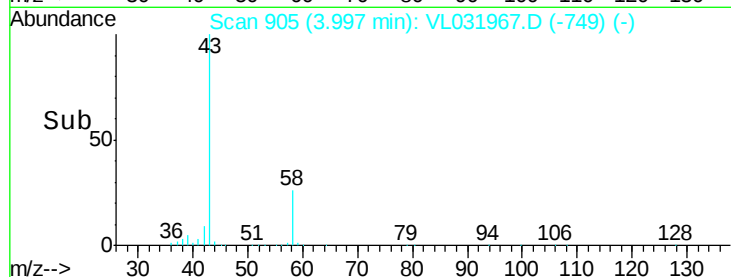
400000

200000

0

3.95 4.00 4.05

Time-->



#16

1,3-Butadiene

Concen: 8.74 ppbv

RT: 3.45 min Scan# 735

Delta R.T. -0.00 min

Lab File: VL031967.D

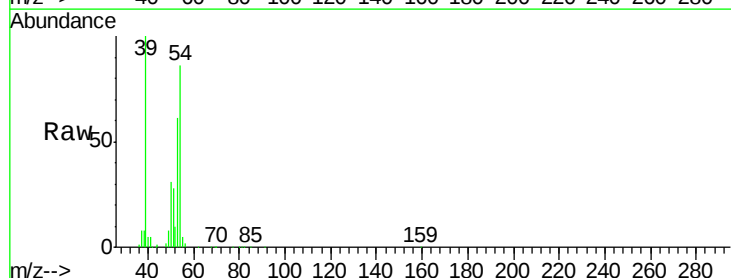
Acq: 3 May 2018 16:17

Tgt Ion: 39 Resp: 552304

Ion Ratio Lower Upper

39 100

54 86.4 66.2 99.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

400000

300000

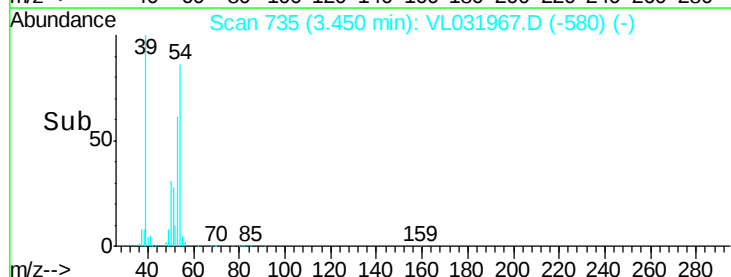
200000

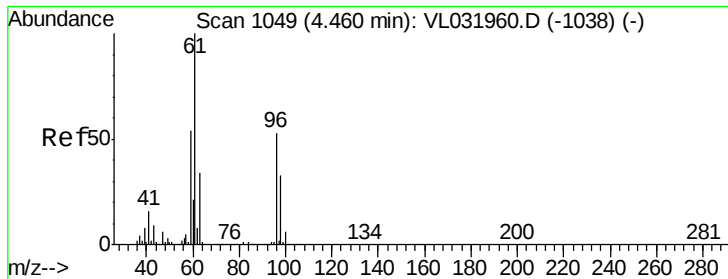
100000

0

3.42 3.44 3.46 3.48

Time-->





#17

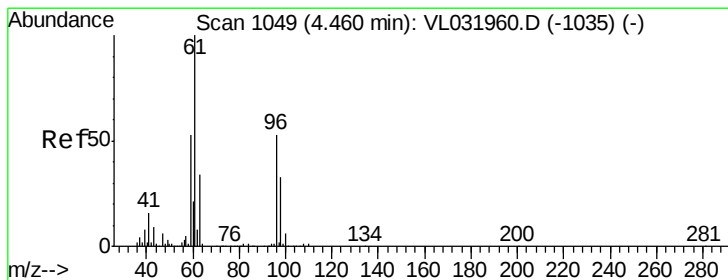
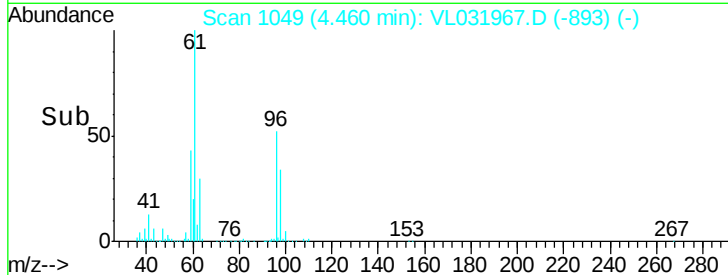
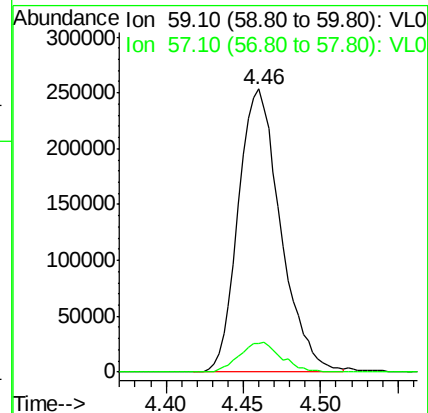
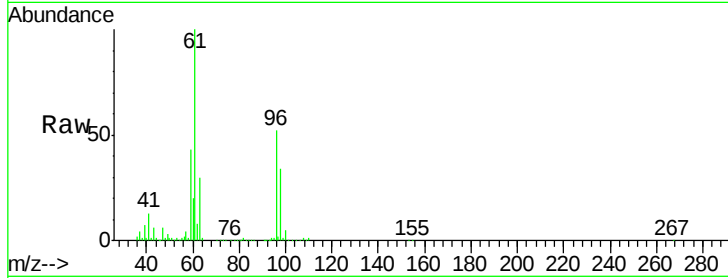
tert-Butyl alcohol
Concen: 5.92 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion	59	Resp	481681
Ion Ratio	59	100	
Lower	57	10.6	8.3
Upper			12.5

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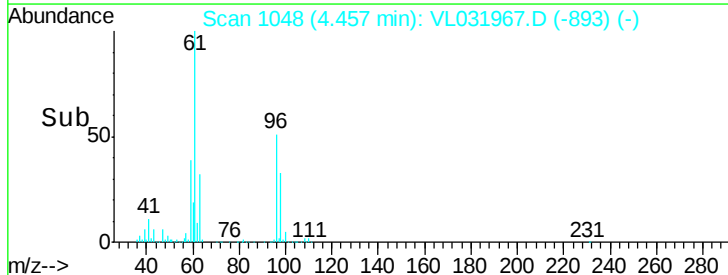
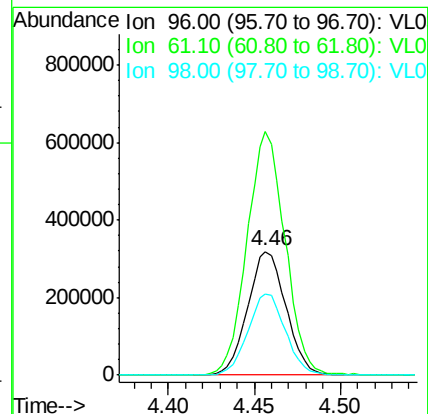
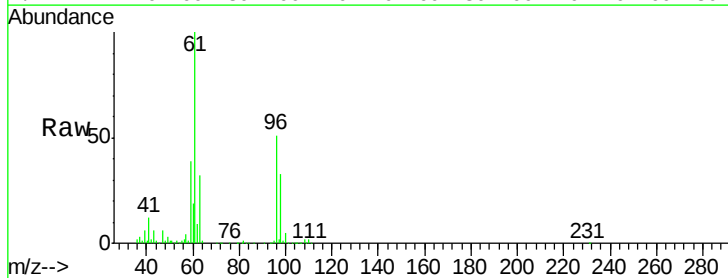
MMDadoda
5/4/2018 5:01:03 PM

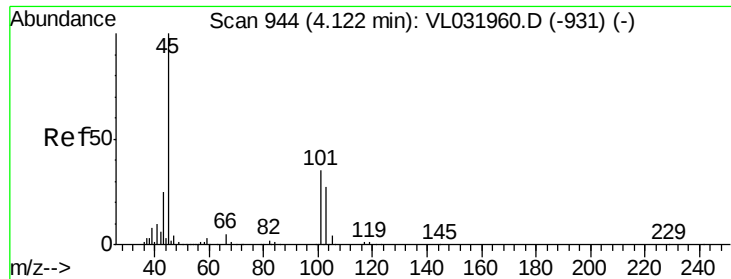


#18

1,1-Dichloroethene
Concen: 7.20 ppbv
RT: 4.46 min Scan# 1048
Delta R.T. -0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion	96	Resp	493485
Ion Ratio	96	100	
Lower	61	196.6	149.9
Upper	98	65.0	49.7





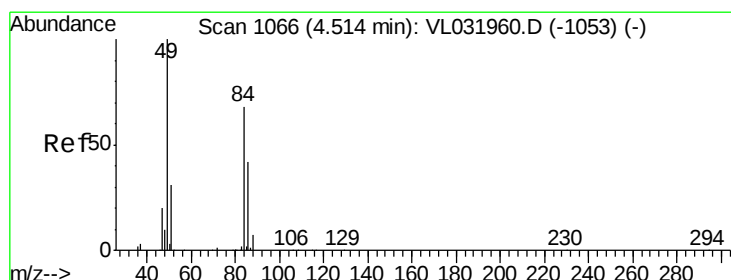
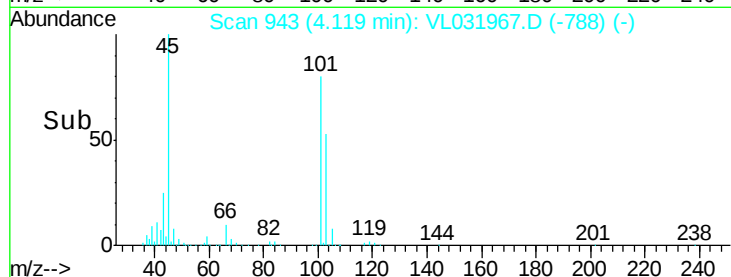
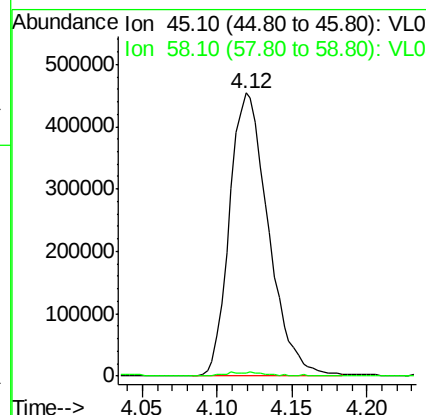
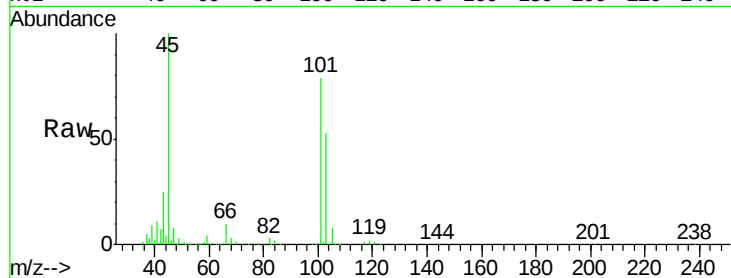
#19
Isopropyl Alcohol
Concen: 7.71 ppbv
RT: 4.12 min Scan# 943
Delta R.T. -0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion: 45 Resp: 819494
Ion Ratio Lower Upper
45 100
58 1.5 1.4 2.2

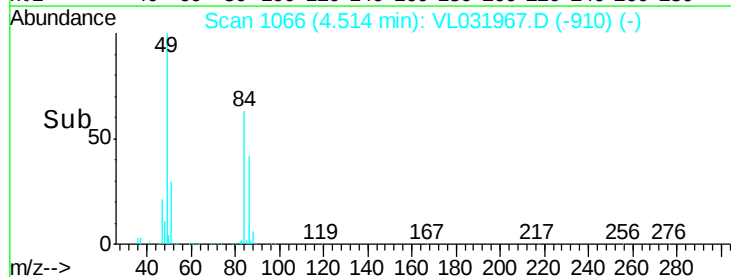
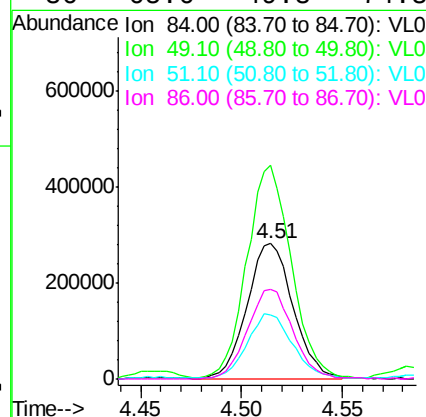
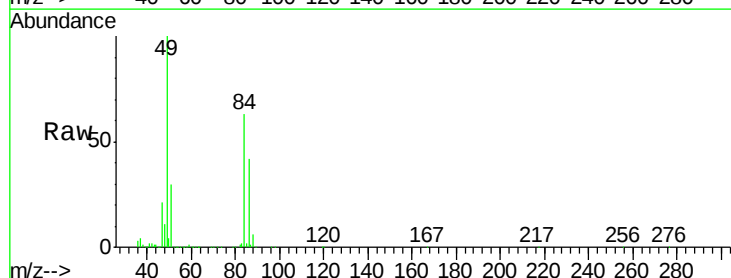
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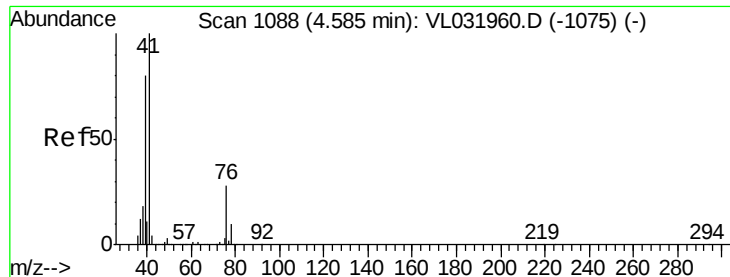
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#20
Methylene Chloride
Concen: 6.73 ppbv
RT: 4.51 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion: 84 Resp: 446684
Ion Ratio Lower Upper
84 100
49 157.0 118.6 178.0
51 47.1 36.6 54.8
86 65.6 49.8 74.8





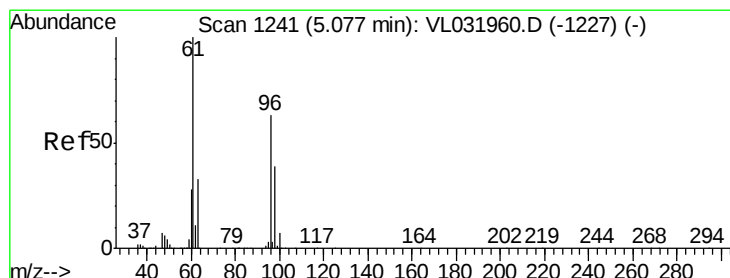
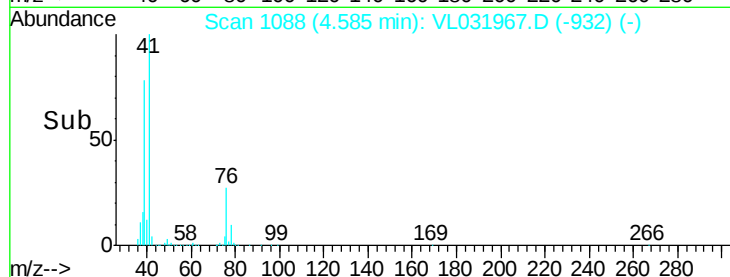
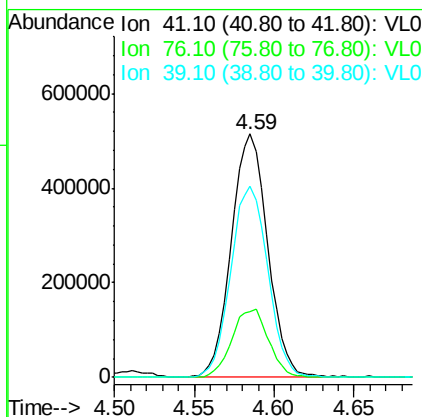
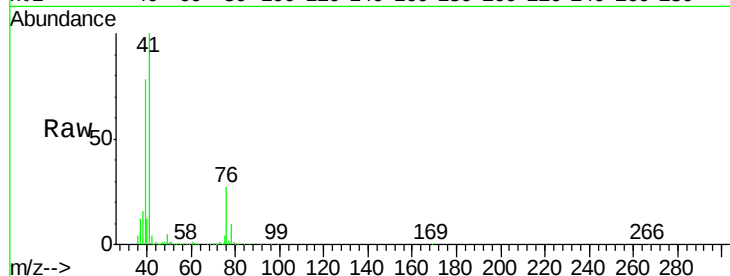
#21
Allvl Chloride
Concen: 7.04 ppbv
RT: 4.59 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.6	23.4	35.0
39	80.8	64.5	96.7

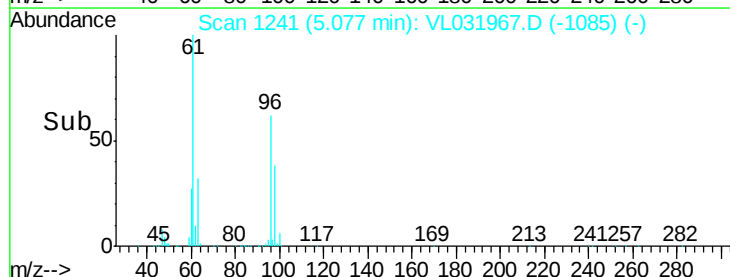
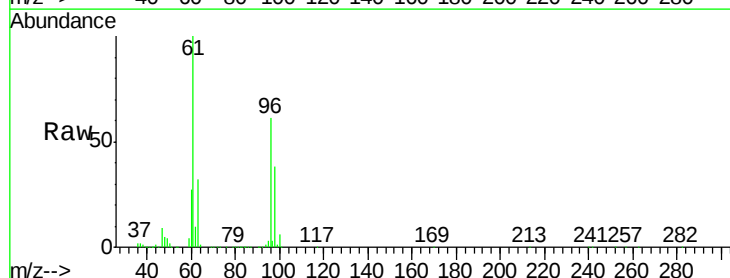
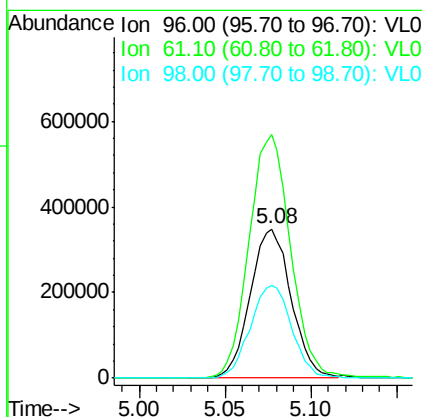
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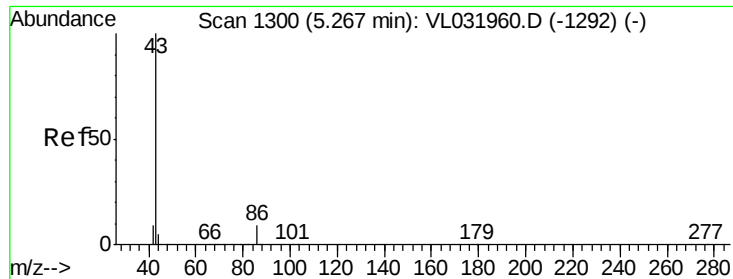
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#22
trans-1,2-Dichloroethene
Concen: 7.55 ppbv
RT: 5.08 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.1	127.7	191.5
98	62.1	49.3	73.9





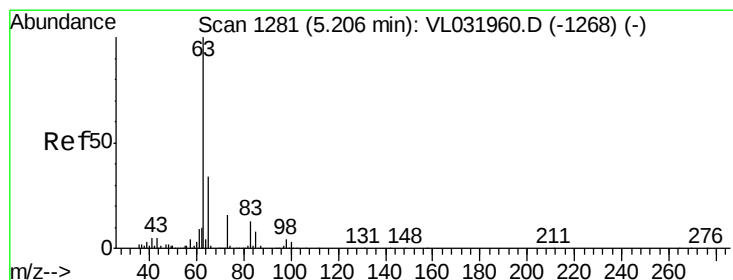
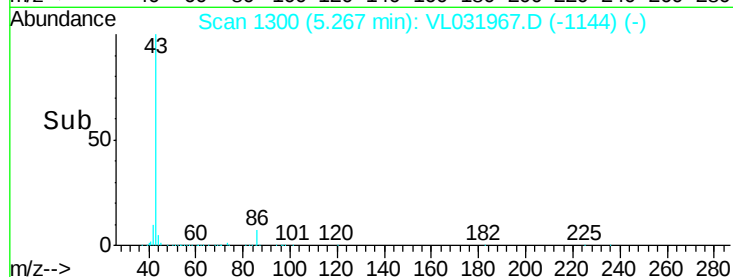
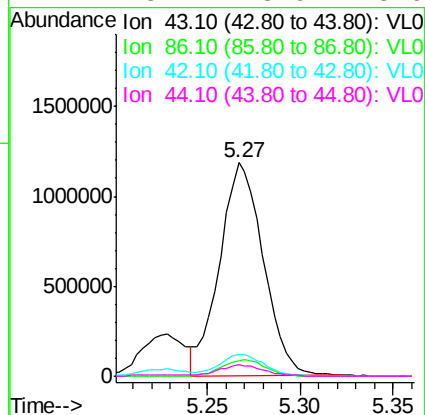
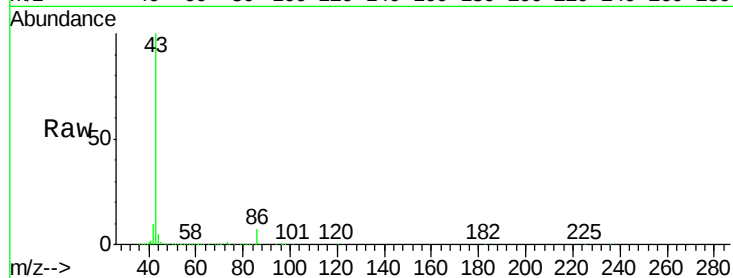
#23
 Vinyl Acetate
 Concen: 8.58 ppbv
 RT: 5.27 min Scan# 1300
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050318

Tot Ion:	43	Resp:	1928196
Ion	Ratio	Lower	Upper
43	100		
86	7.5	6.1	9.1
42	9.8	8.0	12.0
44	5.1	3.9	5.9

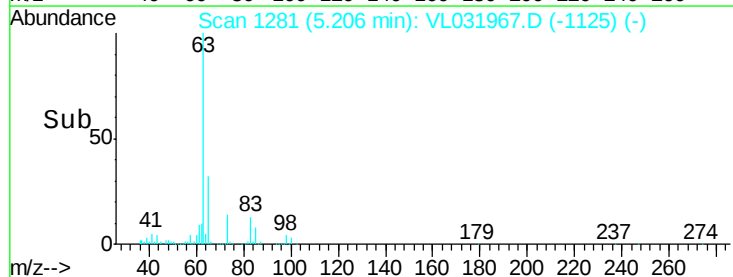
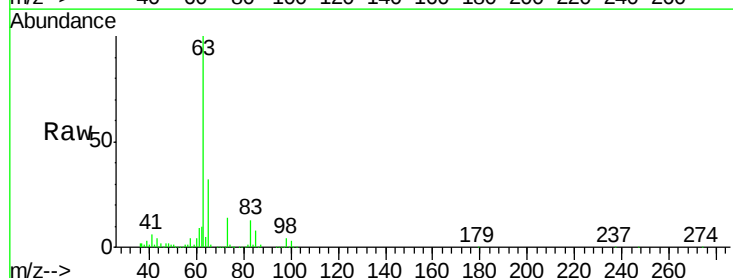
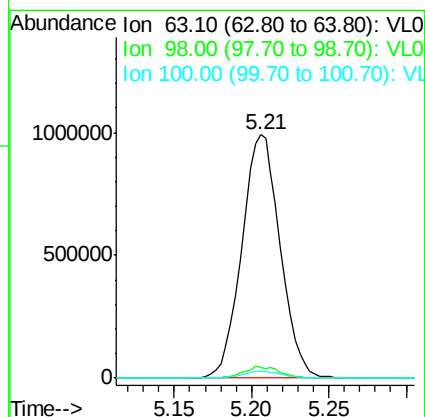
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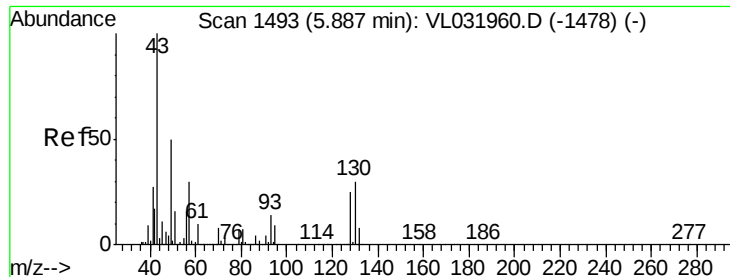
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 8.13 ppbv
 RT: 5.21 min Scan# 1281
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Tgt Ion:	63	Resp:	1703941
Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.2	6.6
100	2.9	1.5	4.5





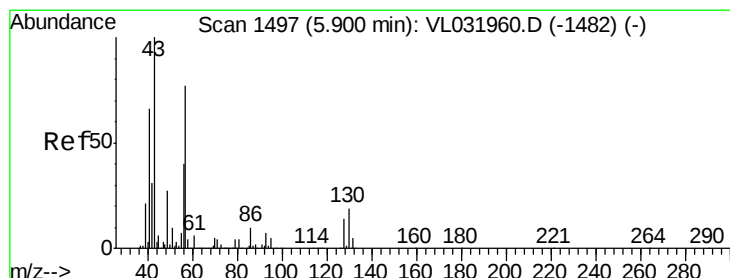
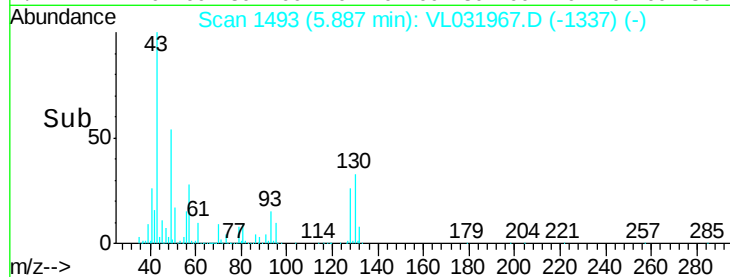
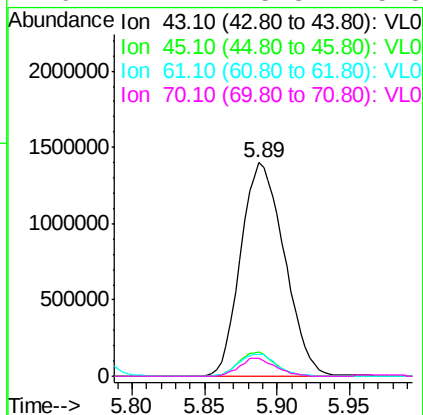
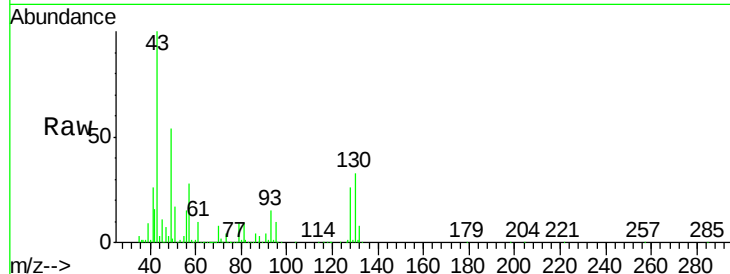
#25
Ethyl Acetate
Concen: 8.69 ppbv
RT: 5.89 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.7	7.8	11.6	
61	9.2	7.4	11.2	
70	7.2	5.8	8.8	

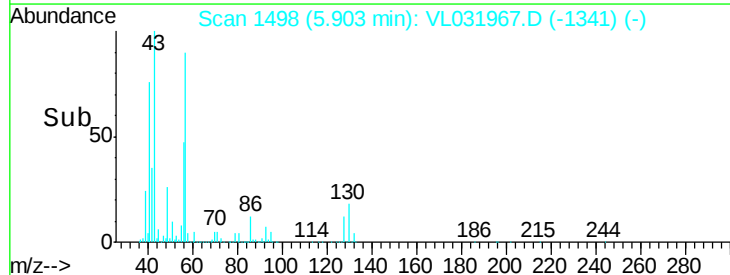
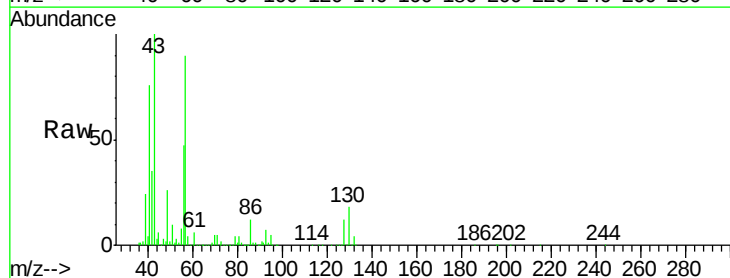
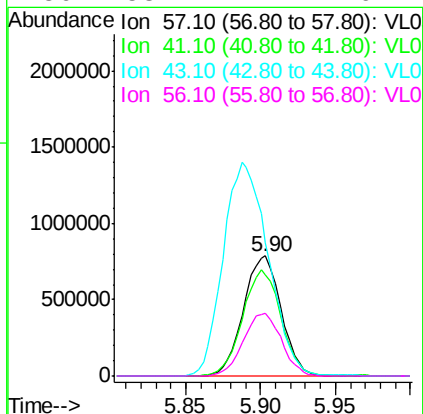
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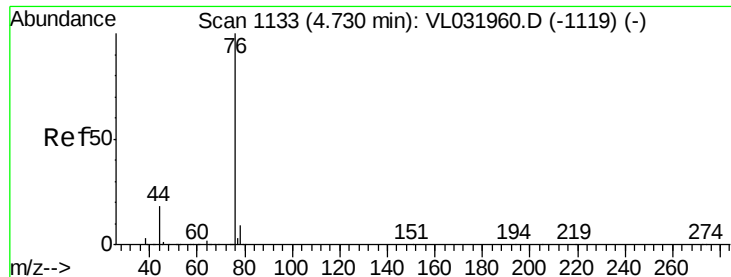
MMDadoda
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#26
Hexane
Concen: 8.68 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	90.6	71.8	107.6	
43	214.6	171.5	257.3	
56	53.1	41.4	62.2	





#27

Carbon Disulfide

Concen: 7.68 ppbv

RT: 4.73 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 76 Resp: 1366016

Ion Ratio Lower Upper

76 100

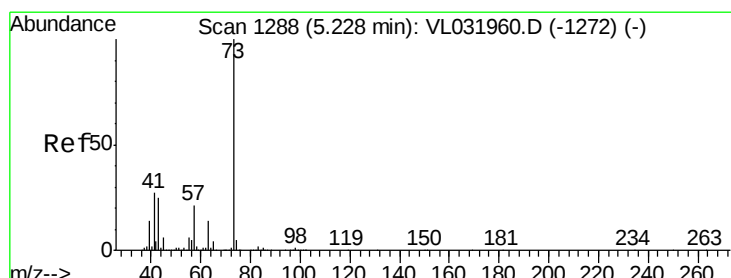
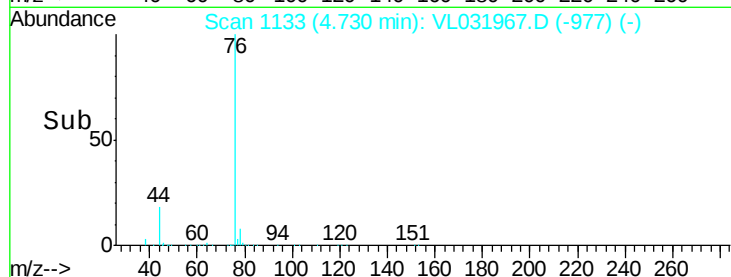
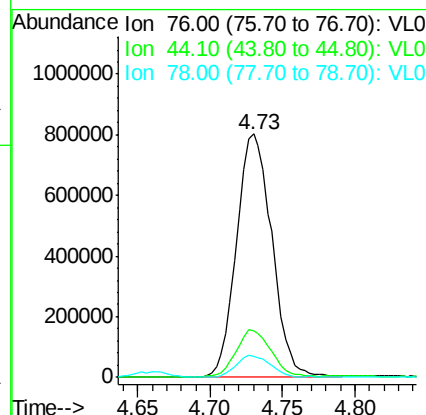
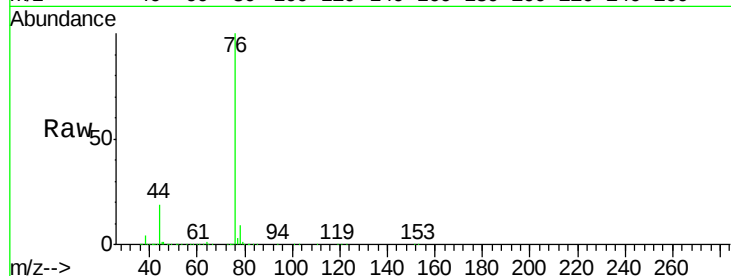
44 19.3 15.4 23.0

78 9.0 7.4 11.0

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 8.53 ppbv

RT: 5.23 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VL031967.D

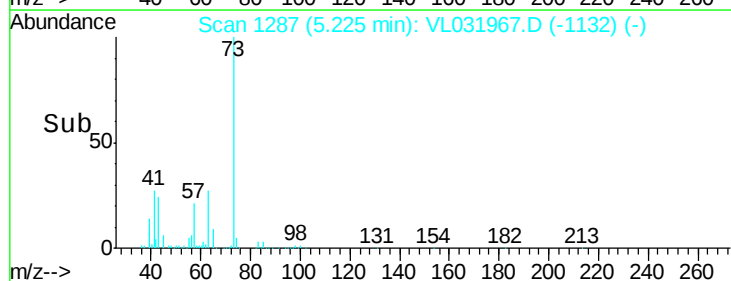
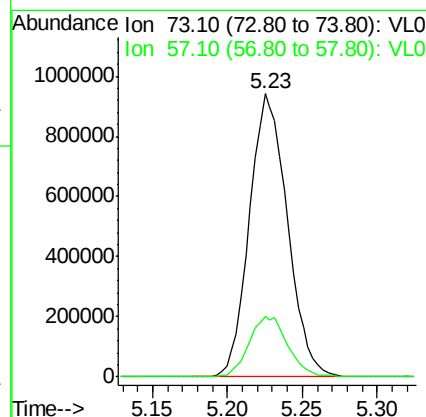
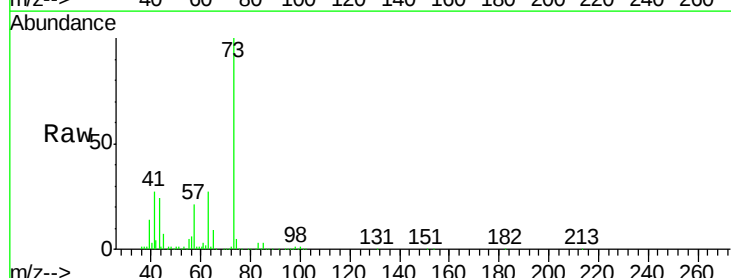
Acq: 3 May 2018 16:17

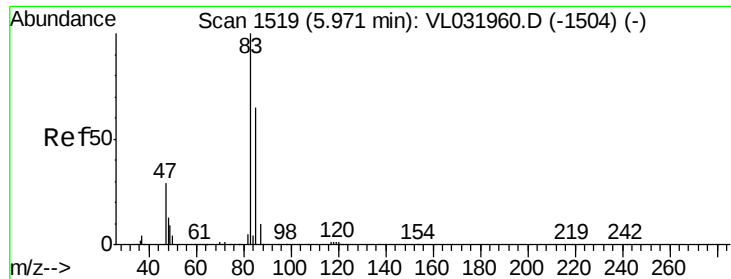
Tgt Ion: 73 Resp: 1663871

Ion Ratio Lower Upper

73 100

57 21.9 17.6 26.4





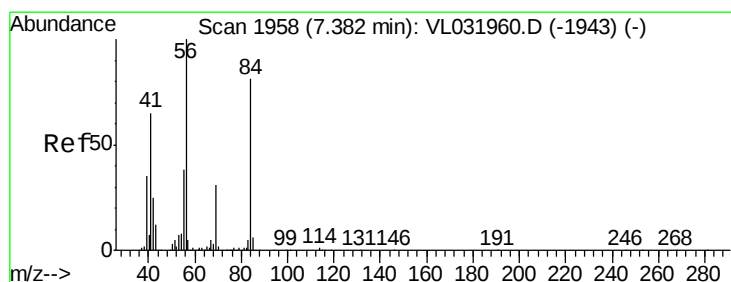
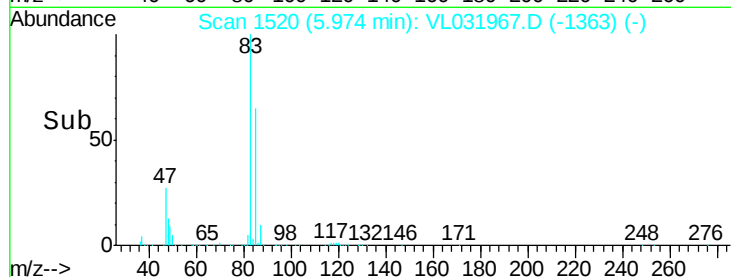
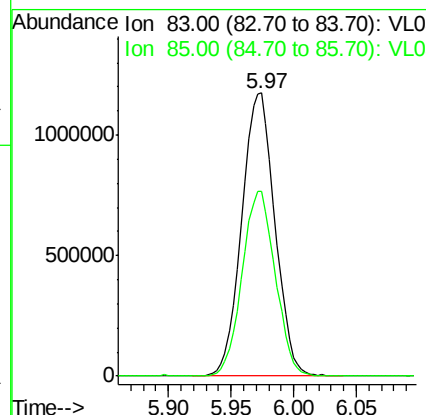
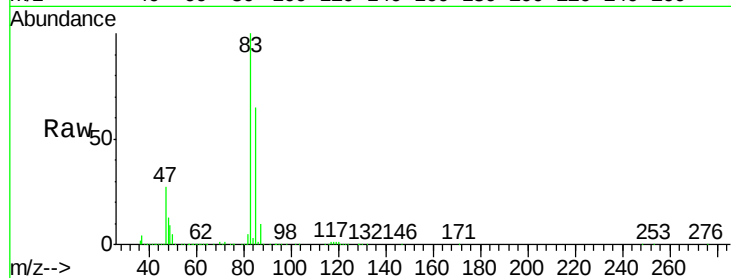
#29
Chloroform
Concen: 8.61 ppbv
RT: 5.97 min Scan# 1520
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion: 83 Resp: 2160345
Ion Ratio Lower Upper
83 100
85 65.0 52.2 78.2

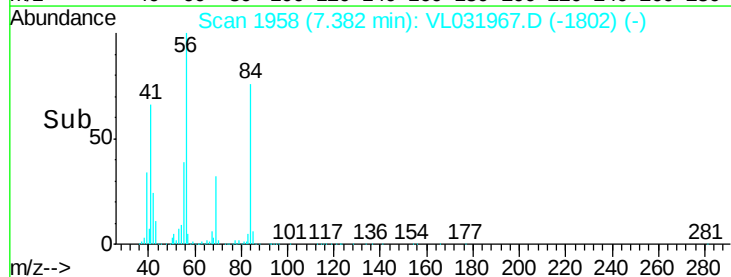
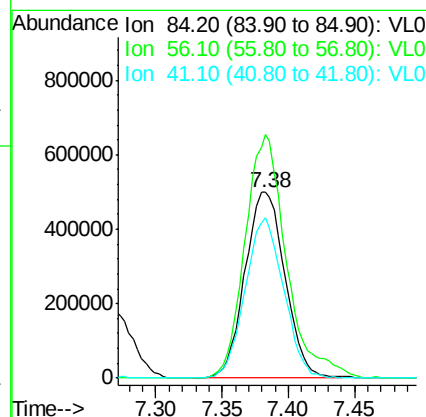
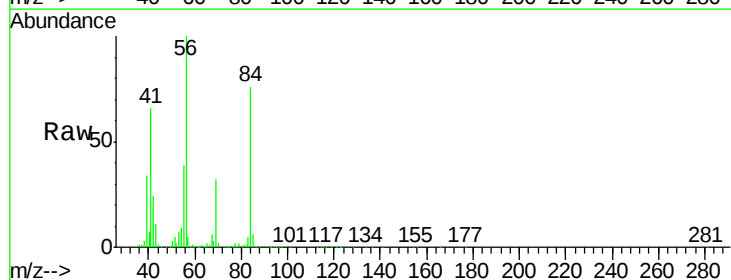
Manual Integrations
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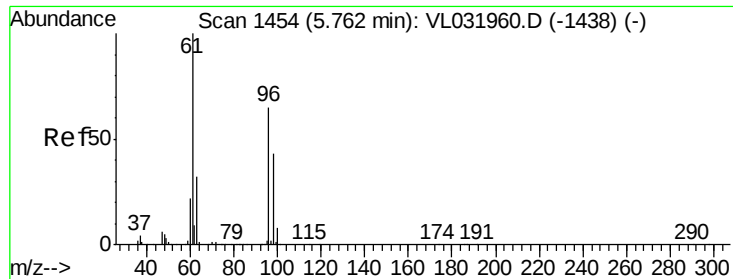
MMDadoda
5/4/2018 5:01:03 PM



#30
Cyclohexane
Concen: 9.94 ppbv
RT: 7.38 min Scan# 1958
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion: 84 Resp: 1050879
Ion Ratio Lower Upper
84 100
56 135.5 108.0 162.0
41 82.6 66.8 100.2





#31

cis-1,2-Dichloroethene

Concen: 9.09 ppbv

RT: 5.76 min Scan# 1454

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 61 Resp: 1319112

Ion Ratio Lower Upper

61 100

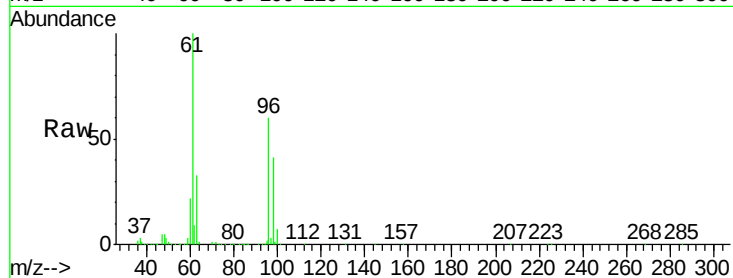
96 60.3 51.8 77.6

98 40.8 34.2 51.4

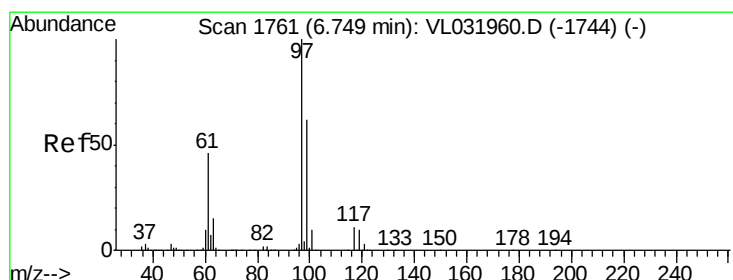
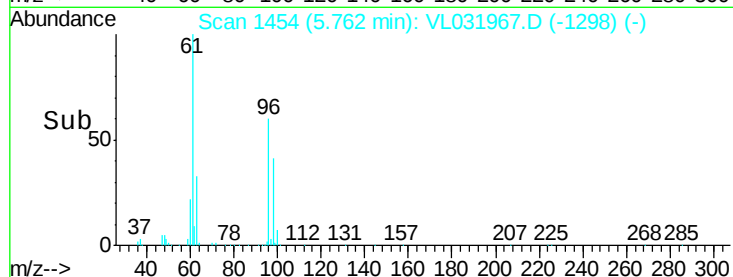
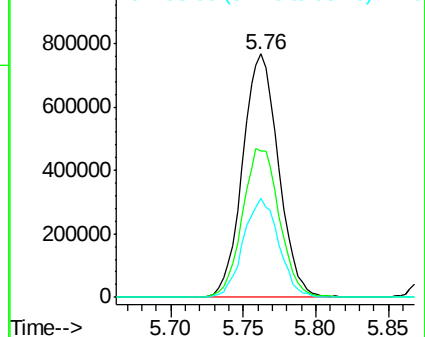
Manual Integrations
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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 8.83 ppbv

RT: 6.75 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

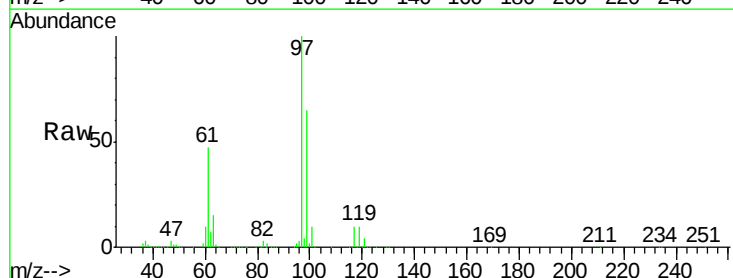
Tgt Ion: 97 Resp: 2042823

Ion Ratio Lower Upper

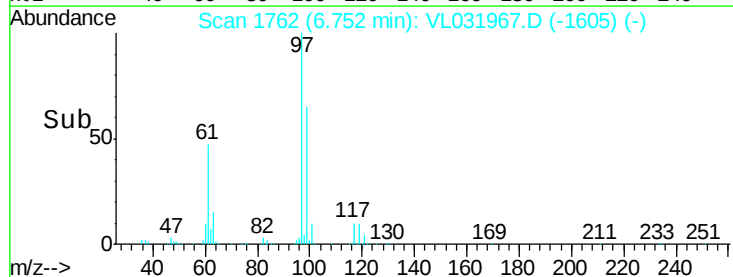
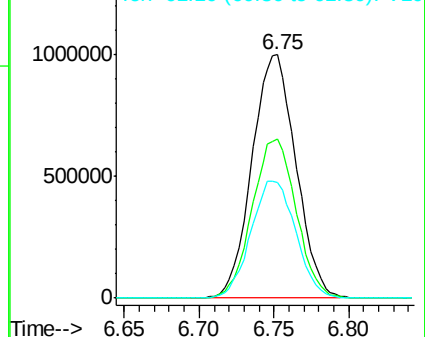
97 100

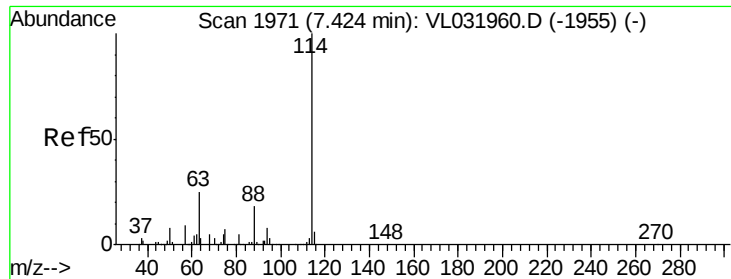
99 65.5 51.0 76.6

61 49.2 38.1 57.1



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





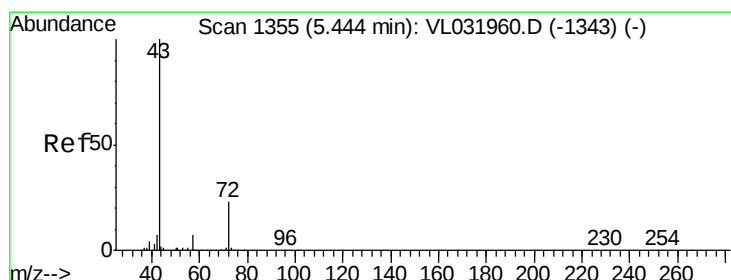
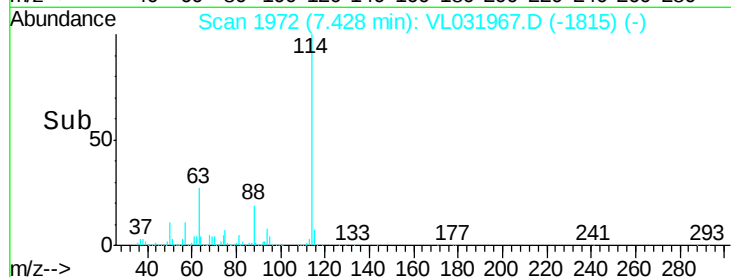
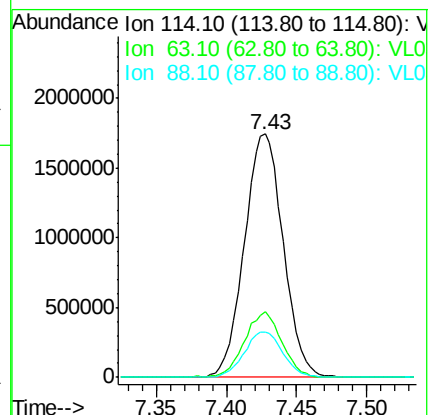
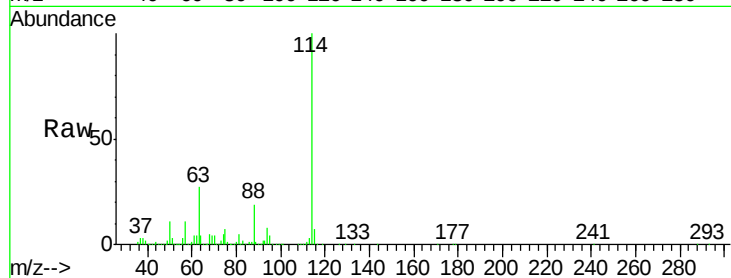
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.43 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050318

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.1	20.8	31.2
88	18.6	14.6	21.8

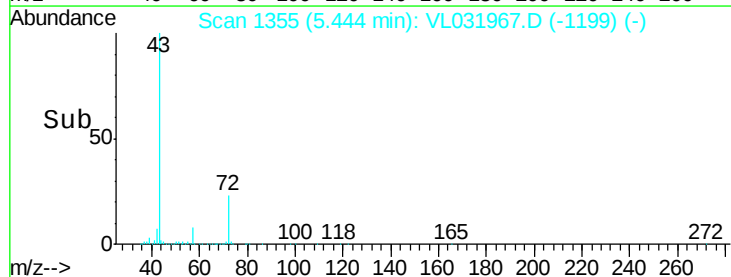
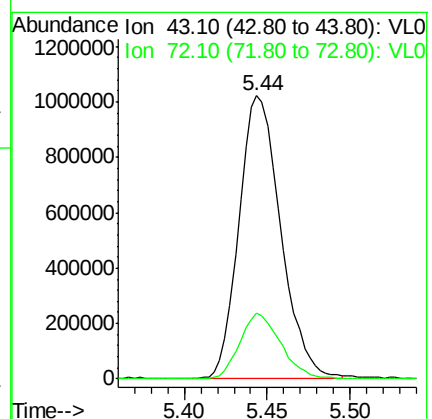
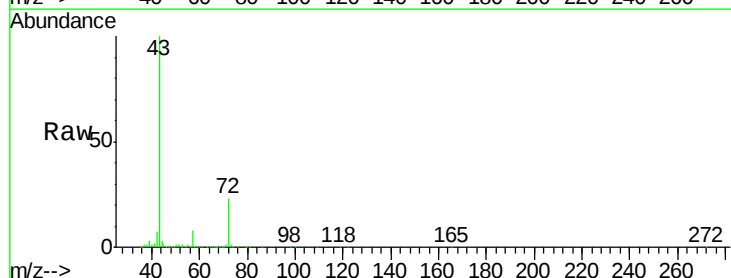
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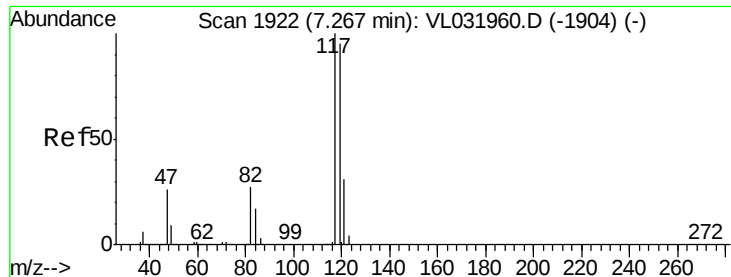
MMDadoda
 5/4/2018 5:01:03 PM



#34
 2-Butanone
 Concen: 6.41 ppbv
 RT: 5.44 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.8	18.3	27.5





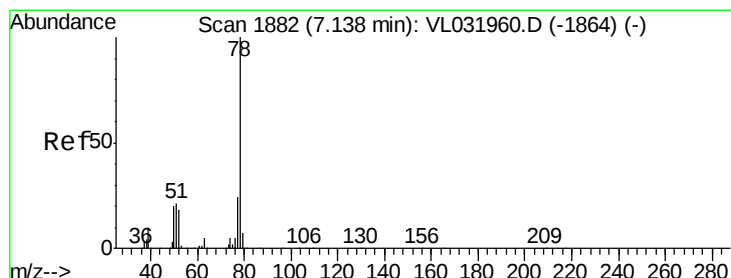
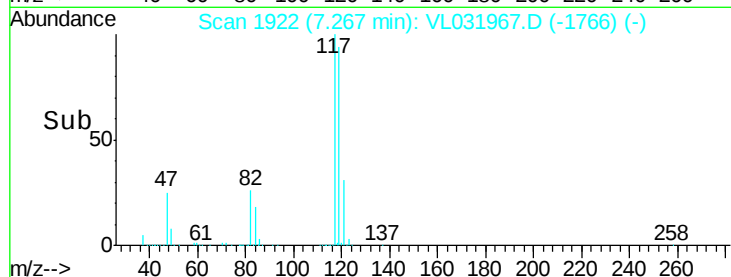
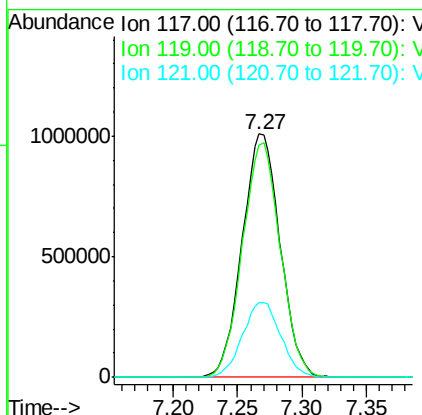
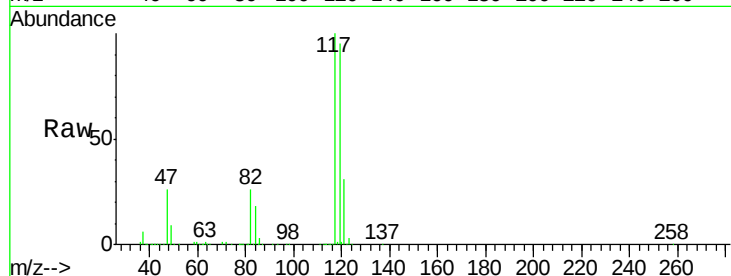
#35
Carbon Tetrachloride
Concen: 7.78 ppbv
RT: 7.27 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.4	114.6
121	30.7	24.4	36.6

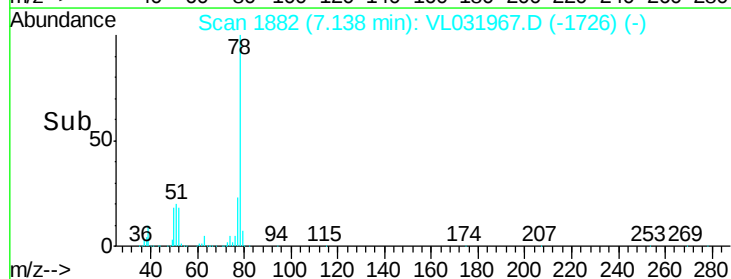
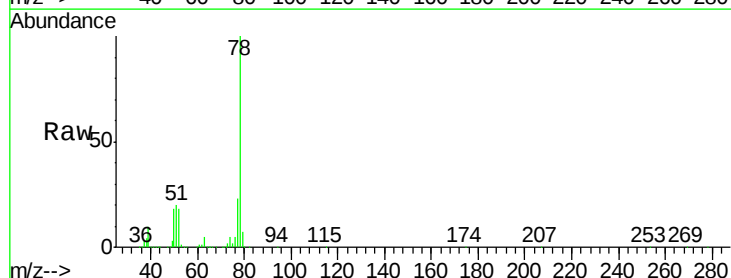
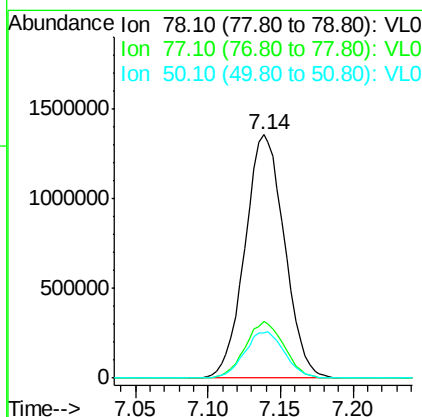
Manual Integrations
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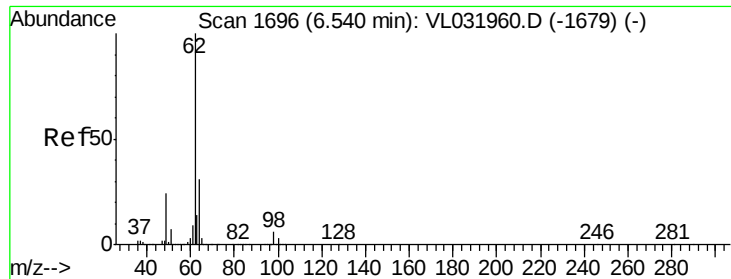
MMDadoda
5/4/2018 5:01:03 PM



#36
Benzene
Concen: 8.13 ppbv
RT: 7.14 min Scan# 1882
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.2	28.8
50	18.5	16.2	24.4





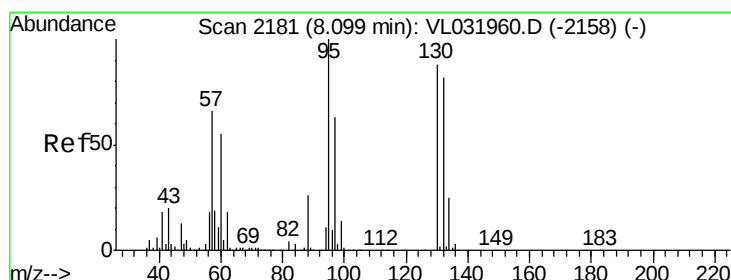
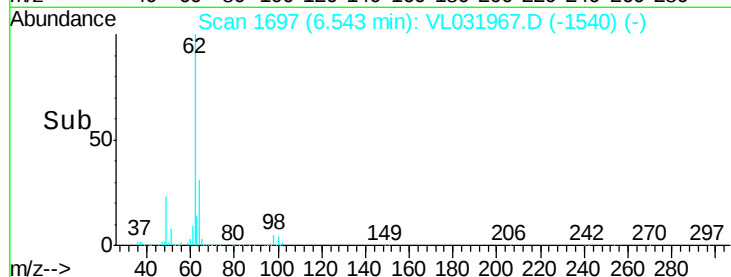
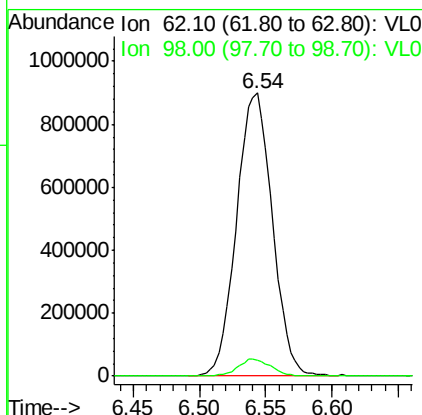
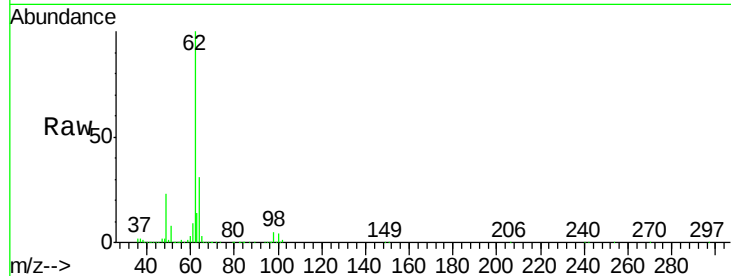
#37
1,2-Dichloroethane
Concen: 7.41 ppbv
RT: 6.54 min Scan# 1697
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion: 62 Resp: 1688577
Ion Ratio Lower Upper
62 100
98 5.7 4.6 6.8

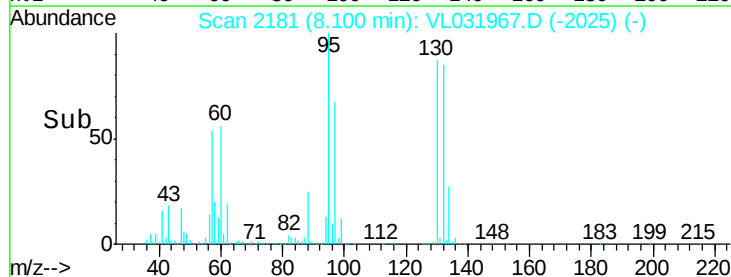
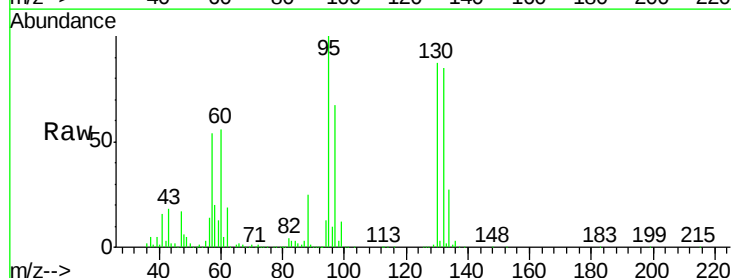
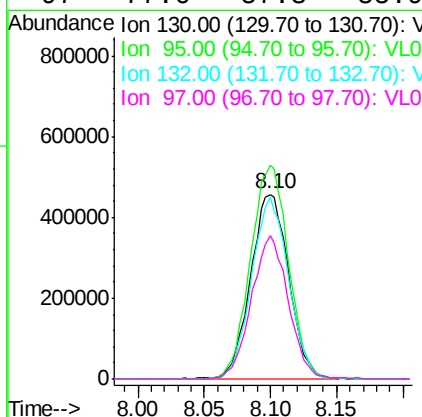
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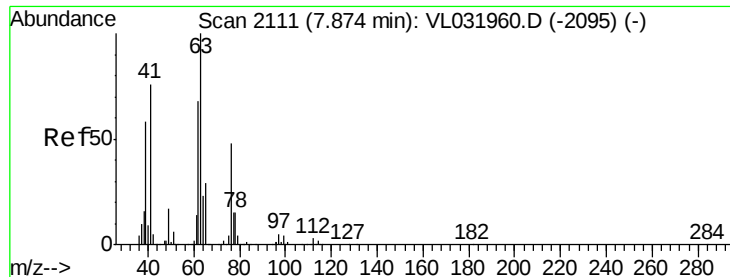
MMDadoda
5/4/2018 5:01:03 PM



#38
Trichloroethene
Concen: 7.54 ppbv
RT: 8.10 min Scan# 2181
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion:130 Resp: 907059
Ion Ratio Lower Upper
130 100
95 115.8 90.7 136.1
132 98.6 74.3 111.5
97 77.6 57.3 85.9





#39

1,2-Dichloropropane

Concen: 7.45 ppbv

RT: 7.87 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 63 Resp: 821931
Ion Ratio Lower Upper

63 100

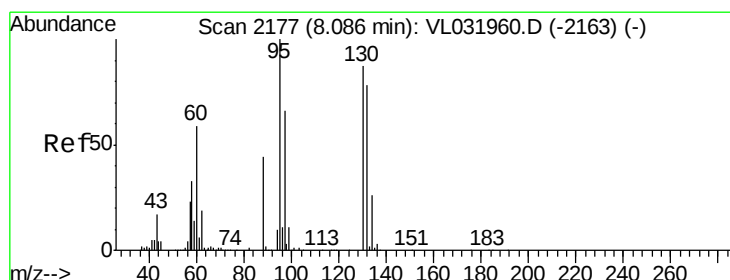
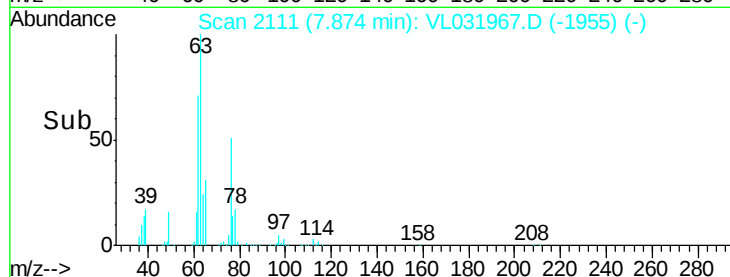
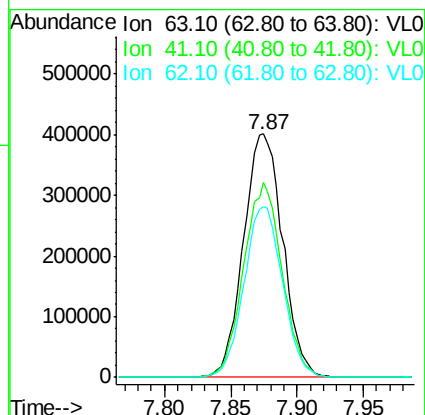
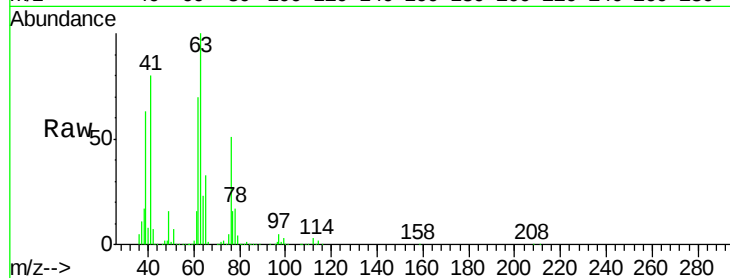
41 80.1 60.7 91.1

62 70.2 54.7 82.1

Manual Integrations
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MMDadoda

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#40

1,4-Dioxane

Concen: 7.01 ppbv

RT: 8.09 min Scan# 2178

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

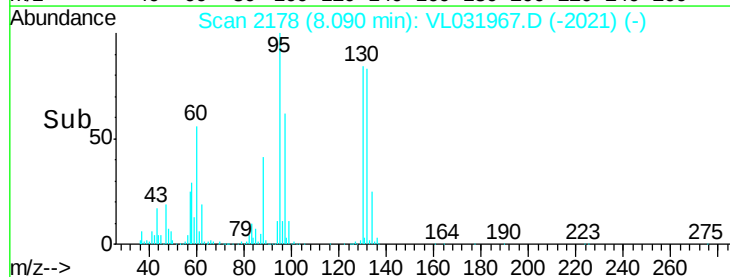
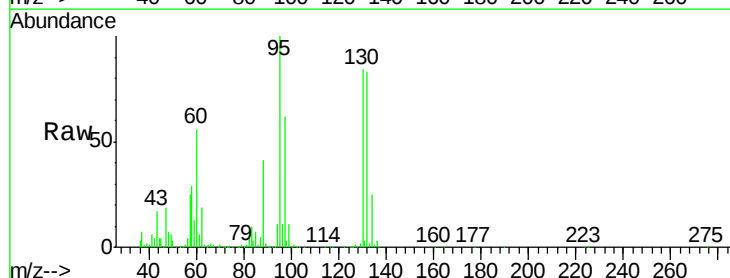
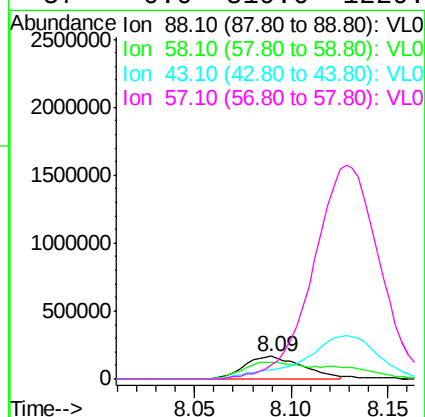
Tgt Ion: 88 Resp: 348646
Ion Ratio Lower Upper

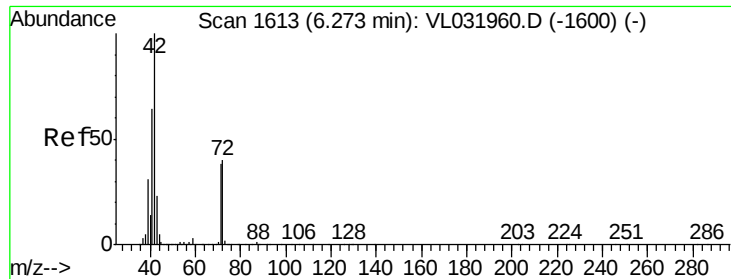
88 100

58 129.8 94.9 142.3

43 0.0 188.2 282.2#

57 0.0 819.6 1229.4#





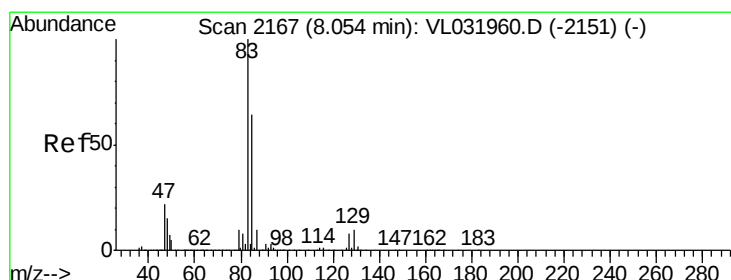
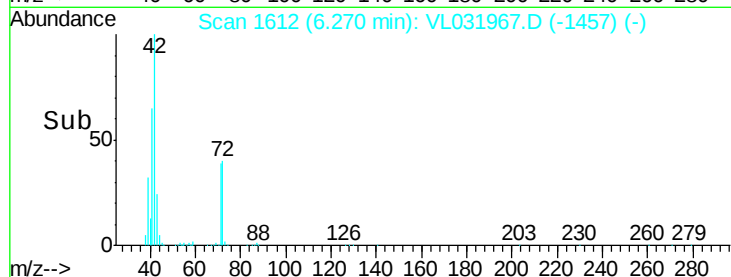
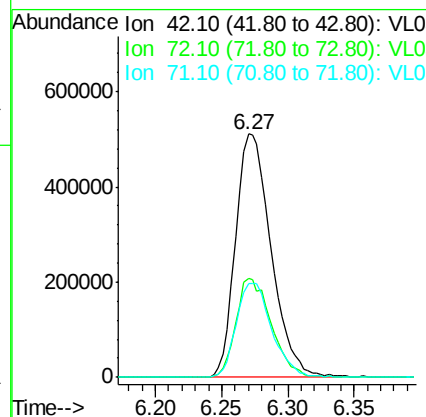
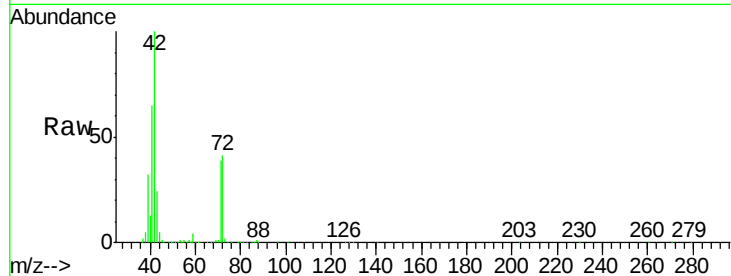
#41
Tetrahydrofuran
Concen: 7.88 ppbv
RT: 6.27 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.6	32.3	48.5
71	39.1	31.4	47.2

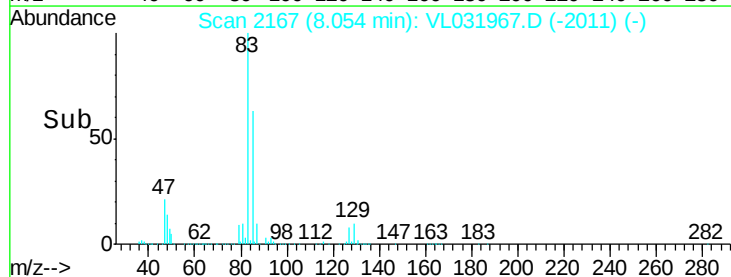
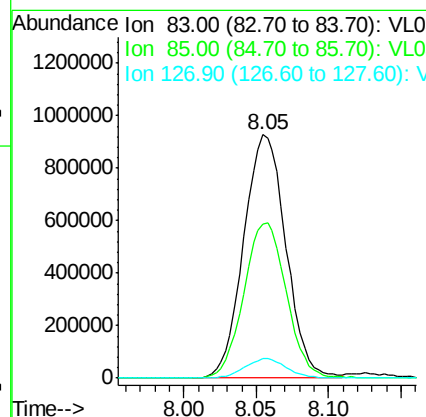
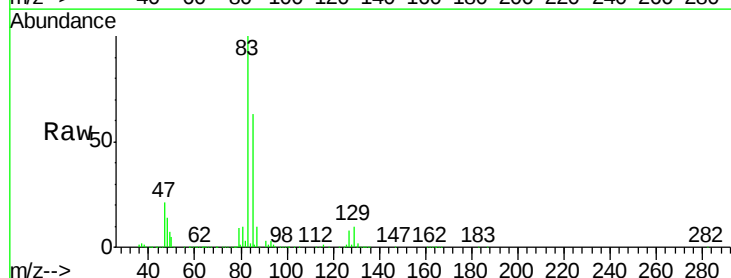
Manual Integrations
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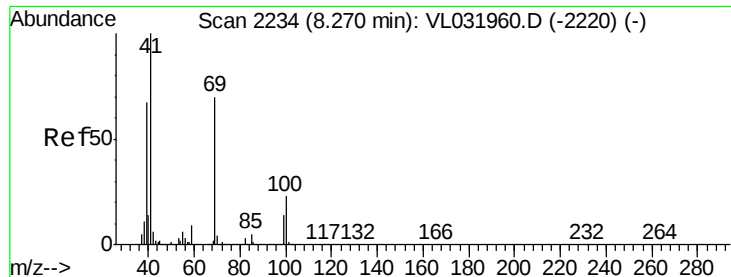
MMDadoda
5/4/2018 5:01:03 PM



#42
Bromodichloromethane
Concen: 7.40 ppbv
RT: 8.05 min Scan# 2167
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.0	76.6
127	8.2	6.7	10.1





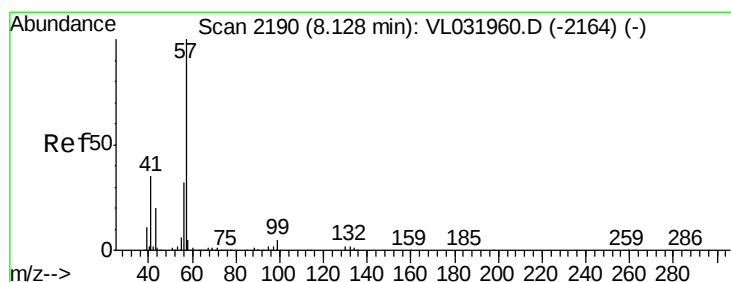
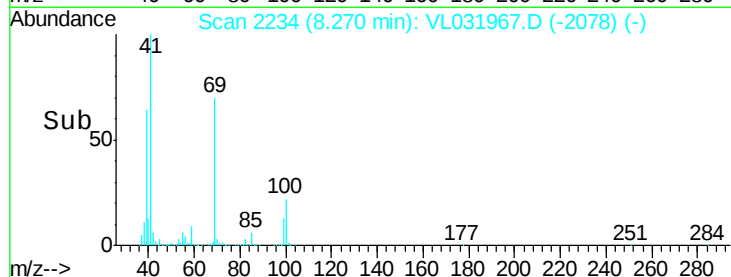
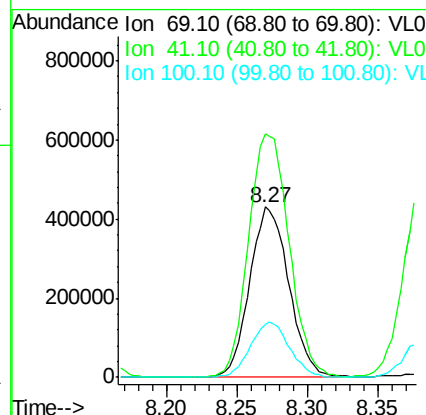
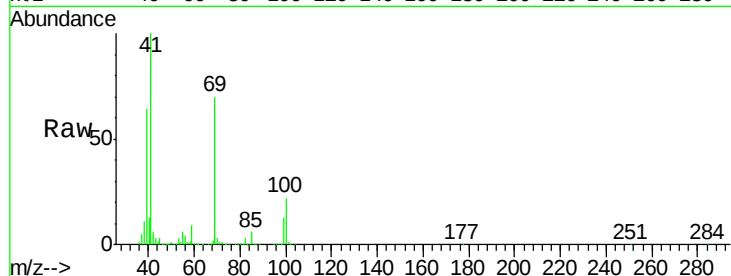
#43
Methvl Methacrilate
Concen: 7.84 ppbv
RT: 8.27 min Scan# 2234
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion	Ratio	Lower	Upper
69	100		
41	148.3	119.4	179.2
100	32.3	26.0	39.0

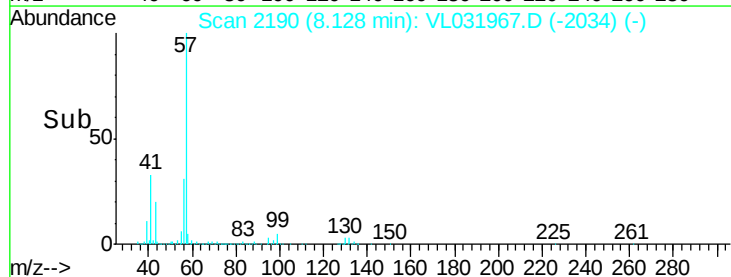
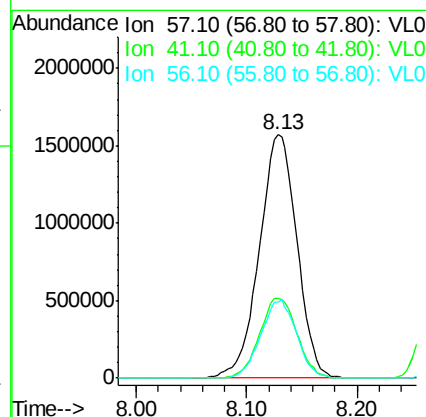
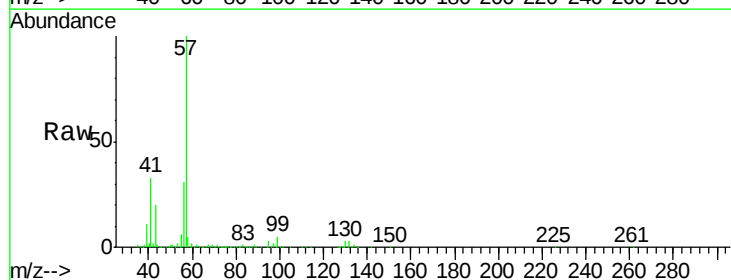
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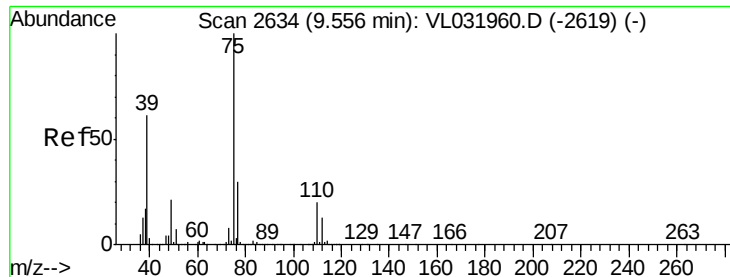
MMDadoda
5/4/2018 5:01:03 PM



#44
2,2,4-Trimethylpentane
Concen: 7.25 ppbv
RT: 8.13 min Scan# 2190
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.9	26.6	39.8
56	30.7	24.4	36.6





#45

t-1,3-Dichloropropene

Concen: 8.56 ppbv

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 75 Resp: 1212164

Ion Ratio Lower Upper

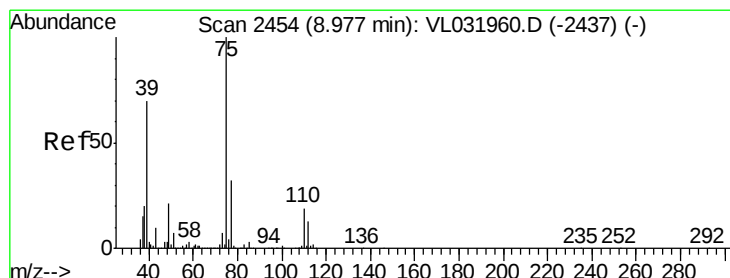
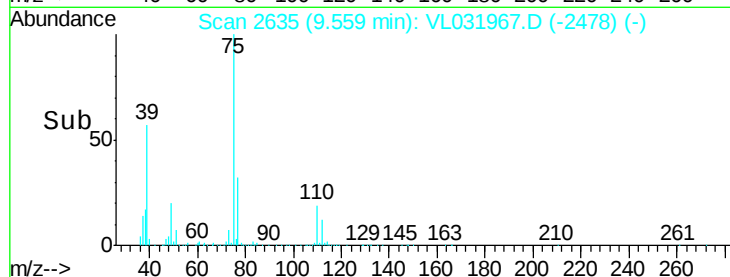
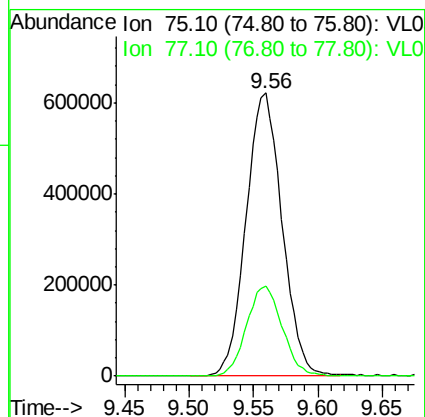
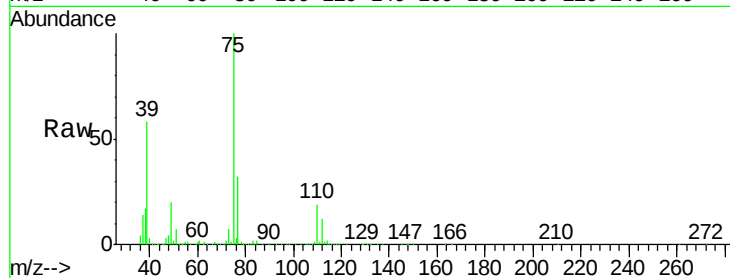
75 100

77 31.7 24.4 36.6

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#46

cis-1,3-Dichloropropene

Concen: 8.27 ppbv

RT: 8.98 min Scan# 2454

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

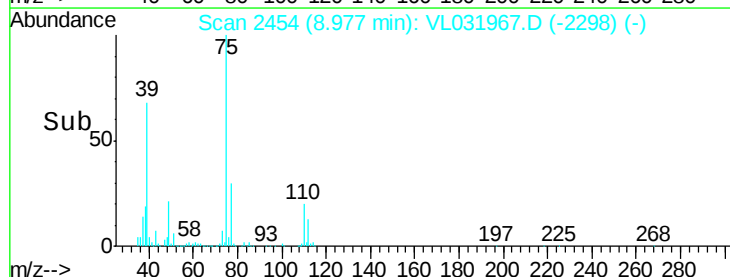
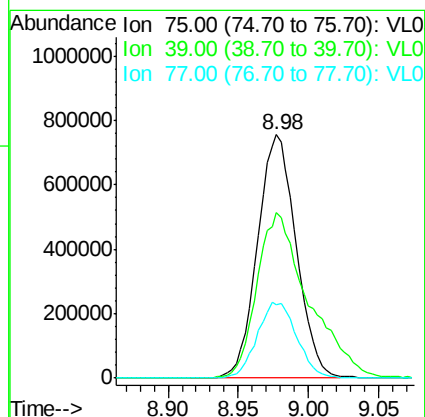
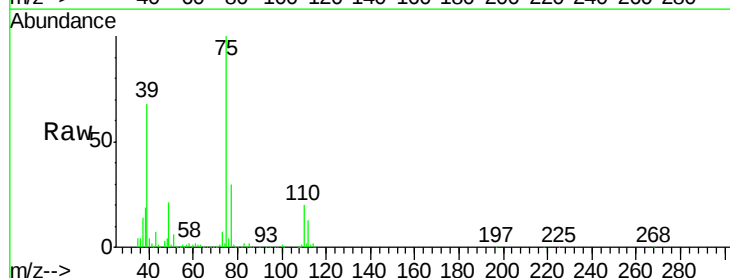
Tgt Ion: 75 Resp: 1444848

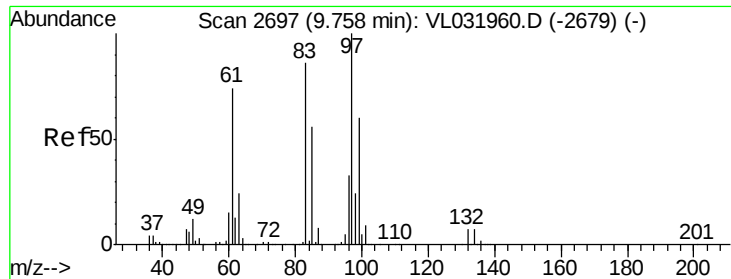
Ion Ratio Lower Upper

75 100

39 67.7 55.7 83.5

77 30.4 25.9 38.9





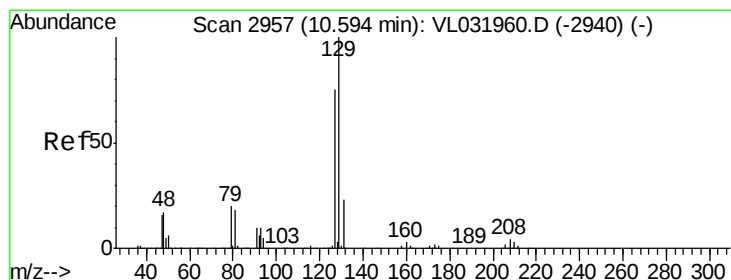
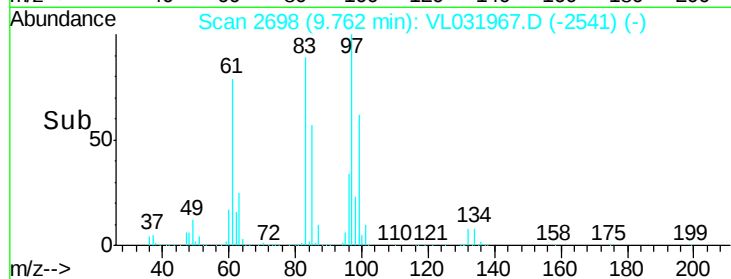
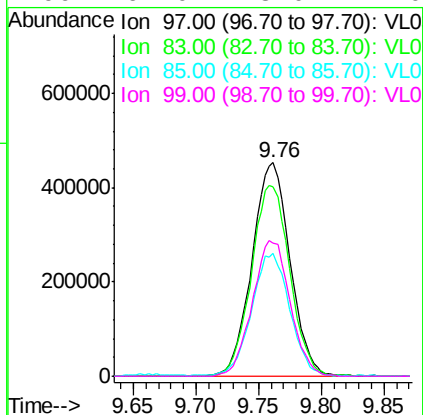
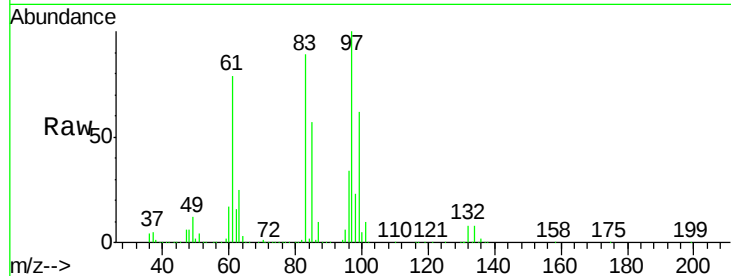
#47
 1,1,2-Trichloroethane
 Concen: 7.32 ppbv
 RT: 9.76 min Scan# 2698
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050318

Tot Ion:	97	Resp:	955745
Ion Ratio	Lower	Upper	
97	100		
83	88.8	69.0	103.4
85	57.2	45.0	67.6
99	62.0	48.0	72.0

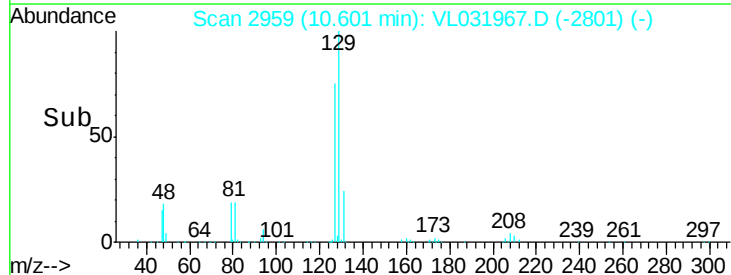
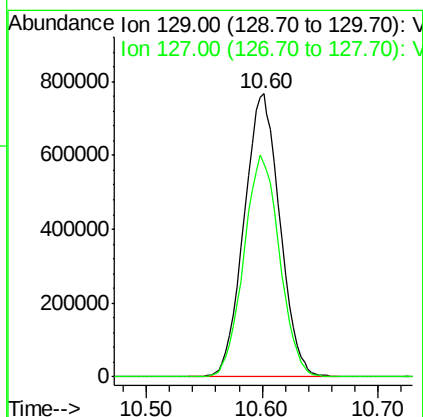
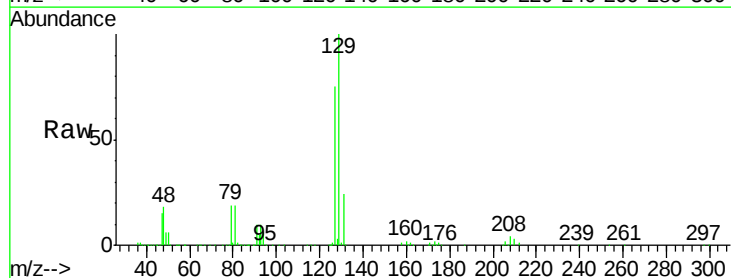
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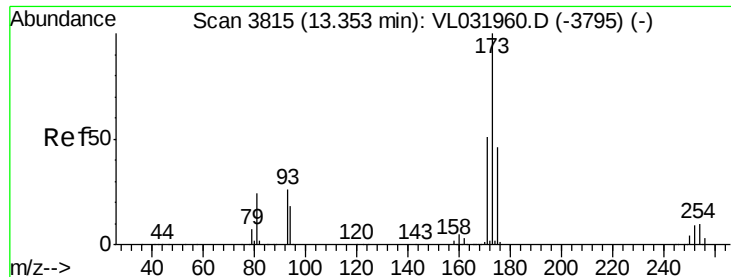
MMDadoda
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#48
 Dibromochloromethane
 Concen: 7.88 ppbv
 RT: 10.60 min Scan# 2959
 Delta R.T. 0.01 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Tgt Ion:	129	Resp:	1648930
Ion Ratio	Lower	Upper	
129	100		
127	78.3	39.1	117.2





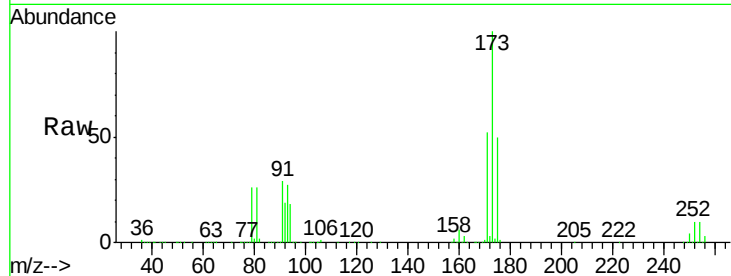
#49
Bromoform
Concen: 8.25 ppbv
RT: 13.36 min Scan# 3816
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

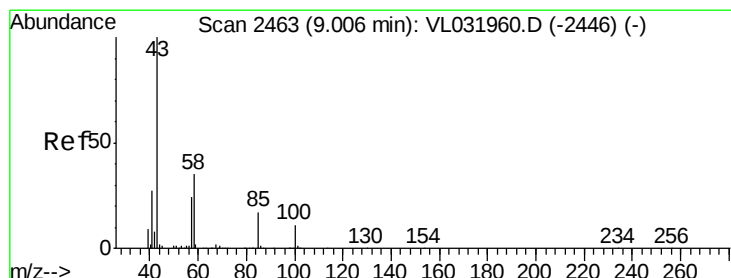
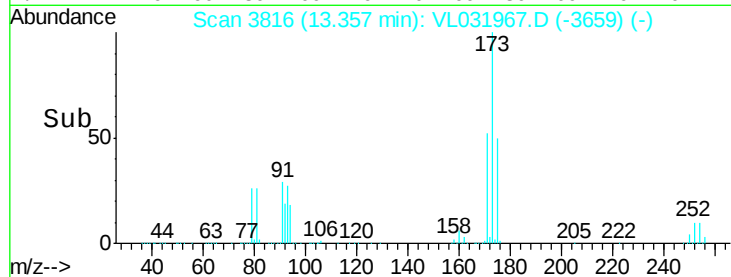
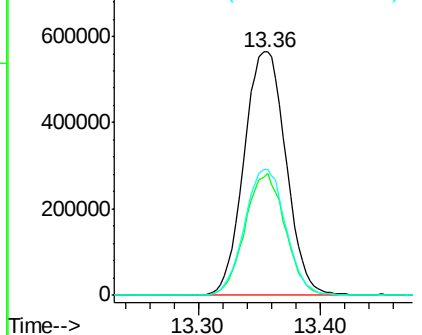
Tot Ion:173 Resp: 1340030
Ion Ratio Lower Upper
173 100
175 47.9 39.2 58.8
171 51.0 41.5 62.3

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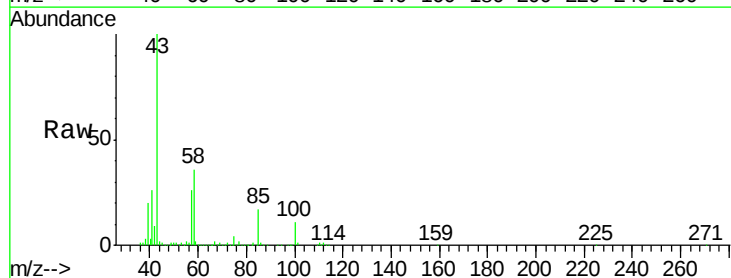


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

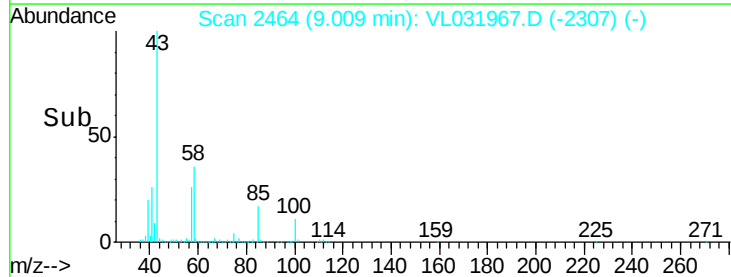
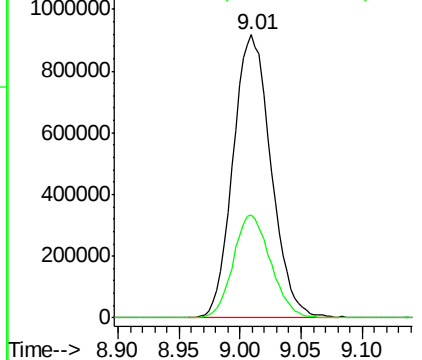


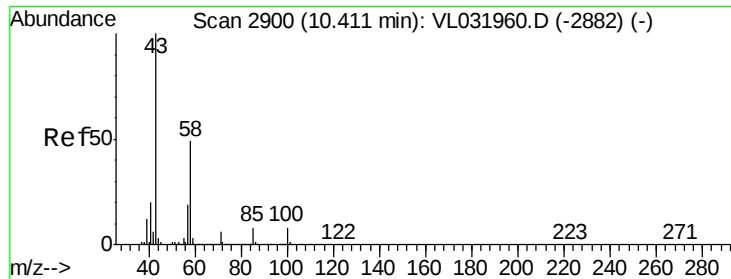
#50
4-Methyl-2-Pentanone
Concen: 7.53 ppbv
RT: 9.01 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion: 43 Resp: 1973800
Ion Ratio Lower Upper
43 100
58 36.1 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 7.80 ppbv

RT: 10.41 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 43 Resp: 1860261

Ion Ratio Lower Upper

43 100

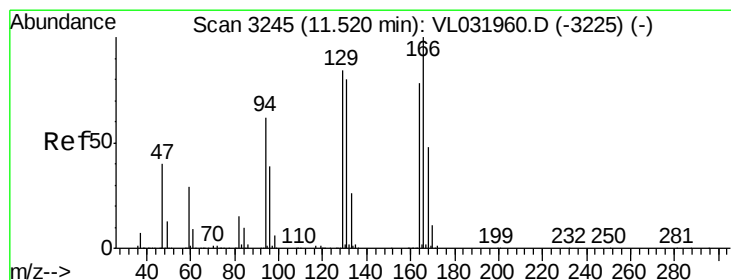
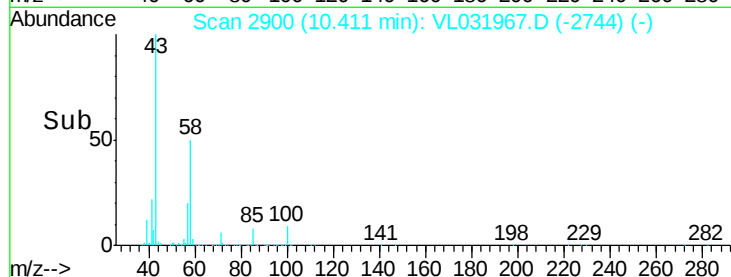
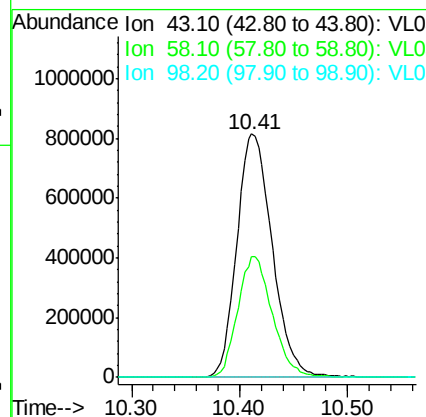
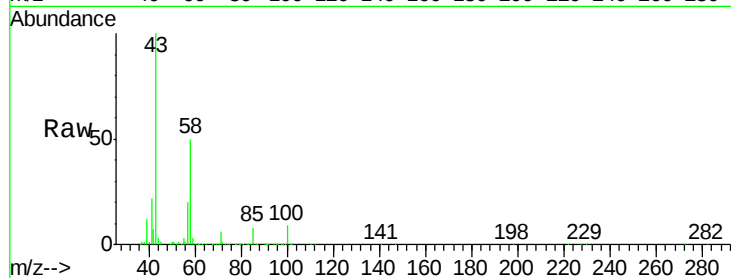
58 48.5 38.6 58.0

98 0.3 0.2 0.2#

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#52

Tetrachloroethene

Concen: 7.67 ppbv

RT: 11.52 min Scan# 3246

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Tgt Ion: 164 Resp: 899911

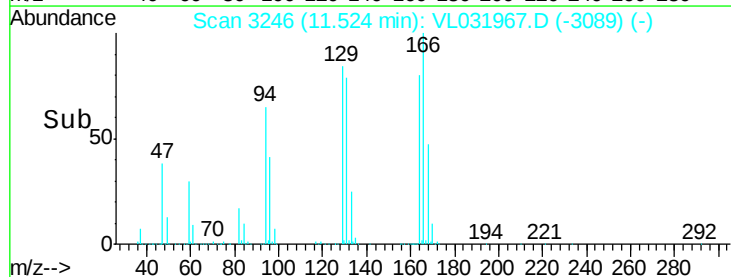
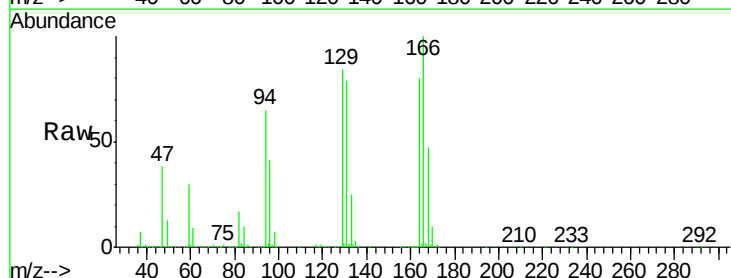
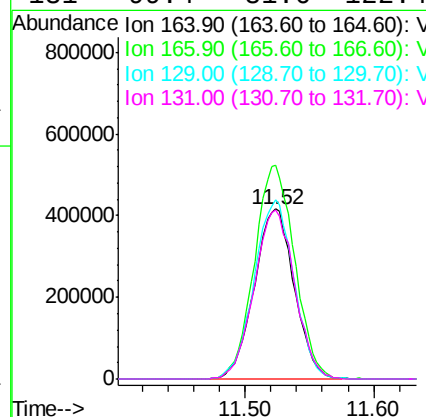
Ion Ratio Lower Upper

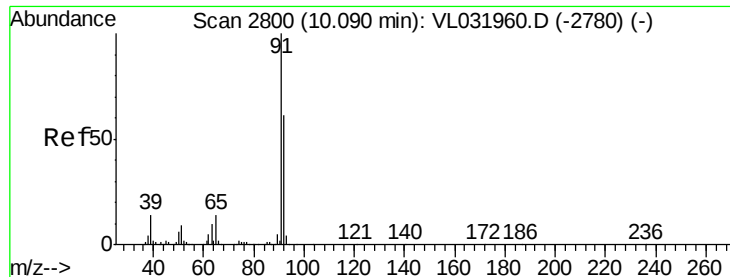
164 100

166 125.7 101.9 152.9

129 105.4 85.8 128.6

131 99.4 81.6 122.4





#53

Toluene

Concen: 8.09 ppbv

RT: 10.09 min Scan# 2801

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 91 Resp: 2762836

Ion Ratio Lower Upper

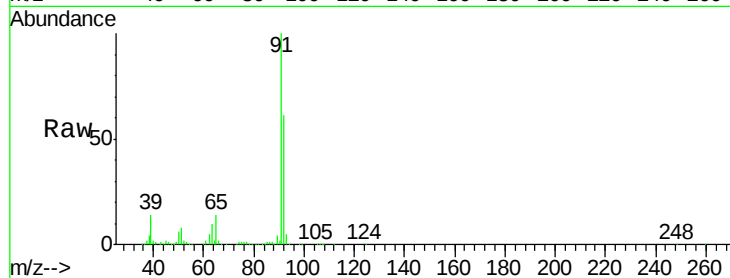
91 100

92 59.2 47.4 71.2

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

10.09

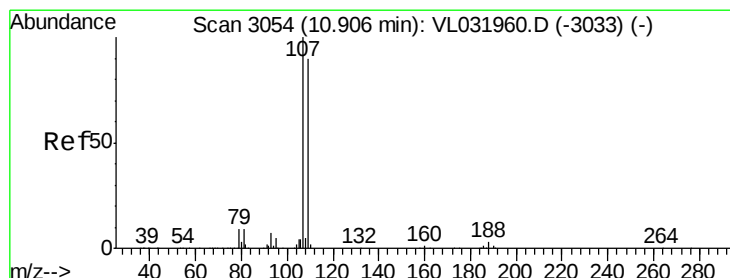
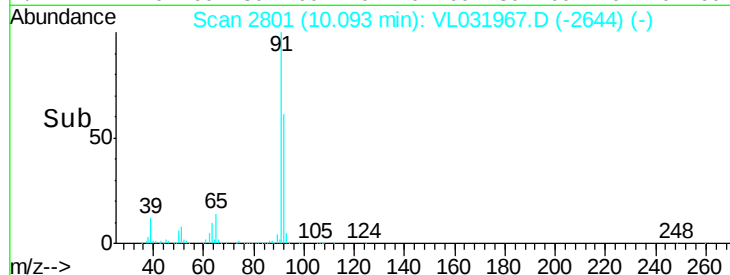
1500000

1000000

500000

0

Time-->



#54

1,2-Dibromoethane

Concen: 7.72 ppbv

RT: 10.91 min Scan# 3055

Delta R.T. 0.00 min

Lab File: VL031967.D

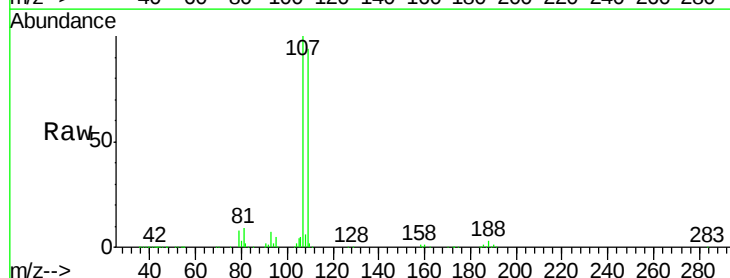
Acq: 3 May 2018 16:17

Tgt Ion:107 Resp: 1501164

Ion Ratio Lower Upper

107 100

109 93.7 72.1 108.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.91

800000

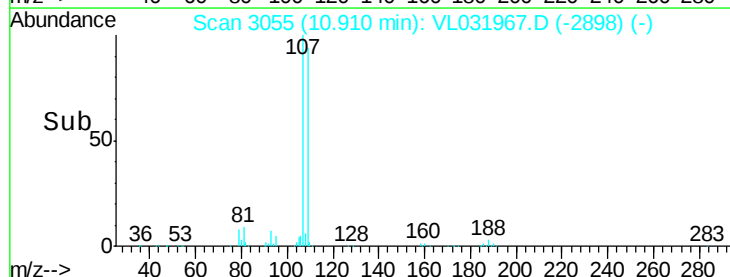
600000

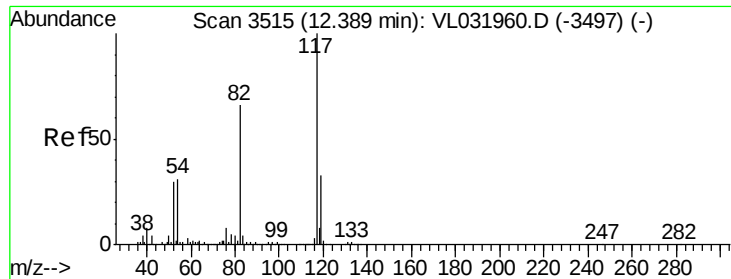
400000

200000

0

Time-->





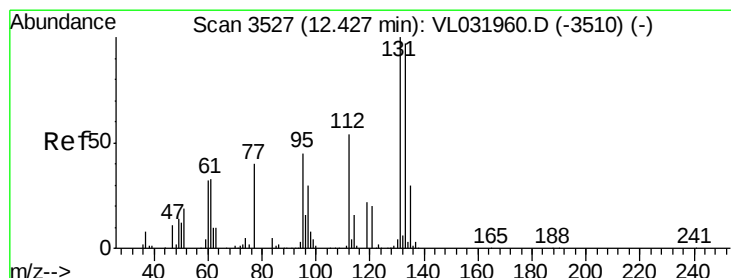
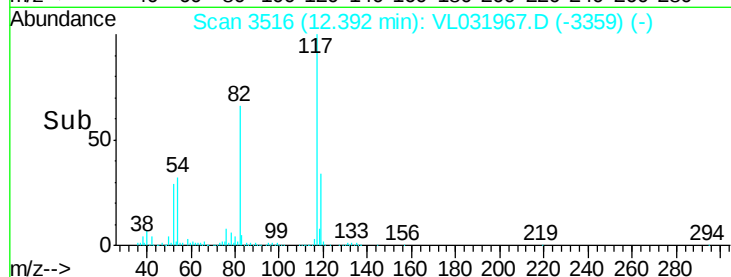
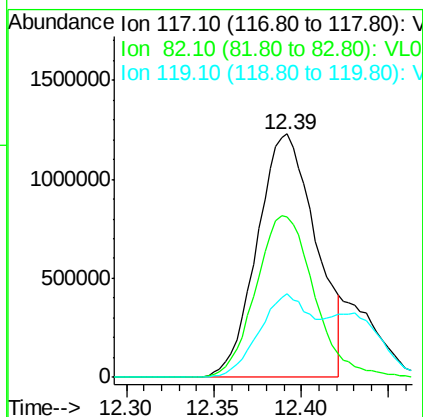
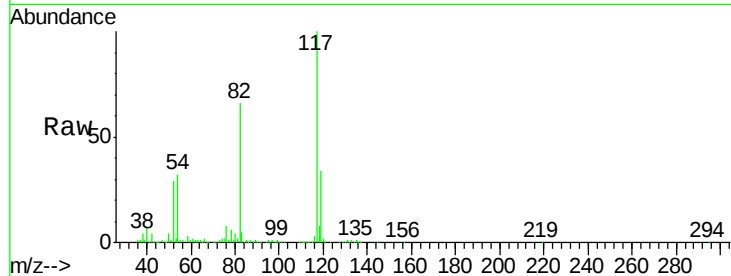
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.39 min Scan# 3516
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion:117 Resp: 2855142
Ion Ratio Lower Upper
117 100
82 66.6 51.6 77.4
119 55.6 44.2 66.4

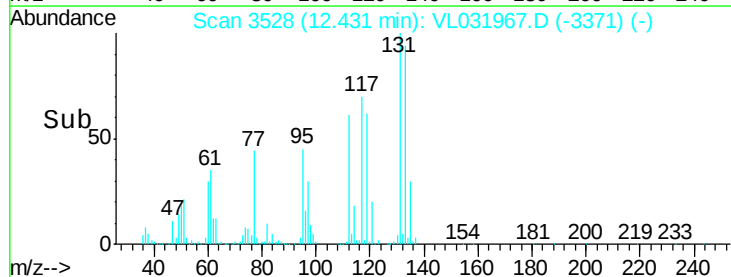
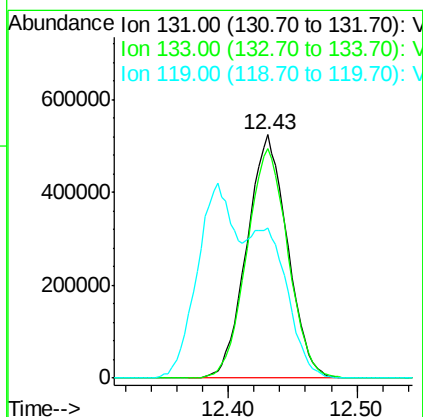
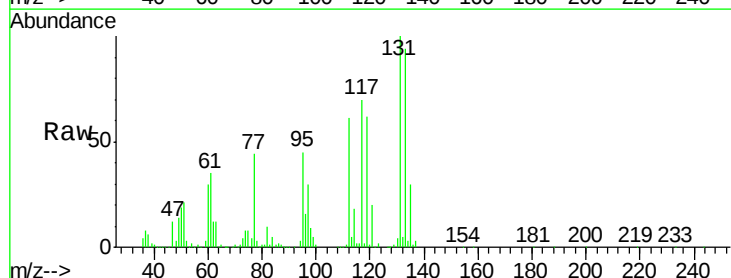
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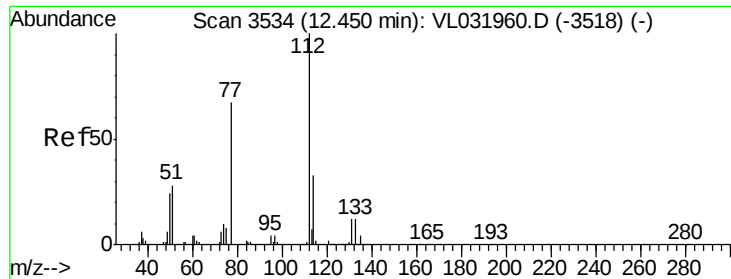
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.82 ppbv
RT: 12.43 min Scan# 3528
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion:131 Resp: 1147071
Ion Ratio Lower Upper
131 100
133 96.0 76.2 114.4
119 138.2 44.7 67.1#





#57

Chlorobenzene

Concen: 8.73 ppbv

RT: 12.45 min Scan# 3535

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion:112 Resp: 2148667

Ion Ratio Lower Upper

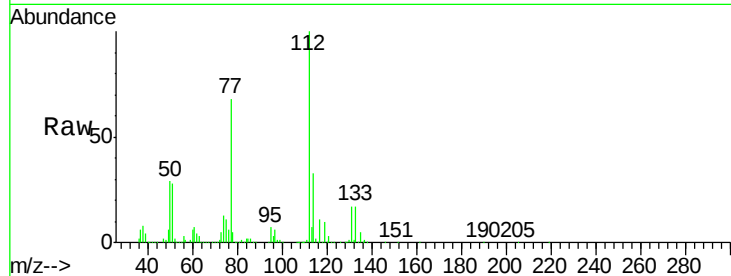
112 100

77 67.4 54.6 82.0

114 33.1 29.2 35.6

Manual Integrations
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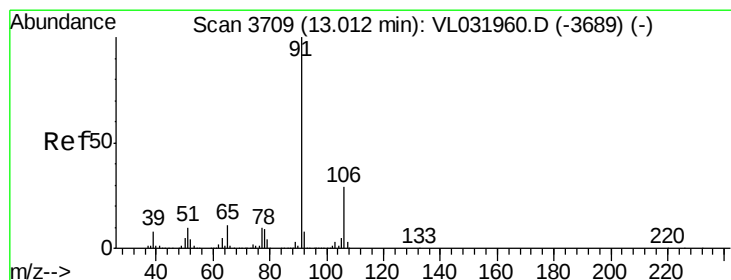
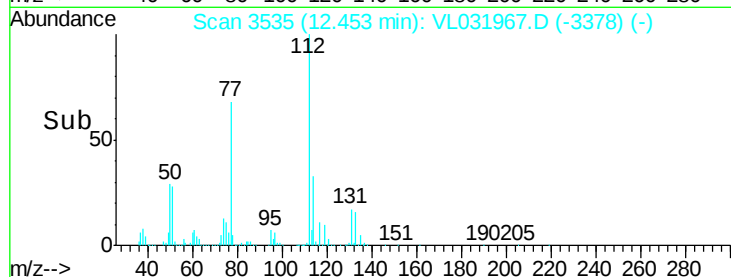
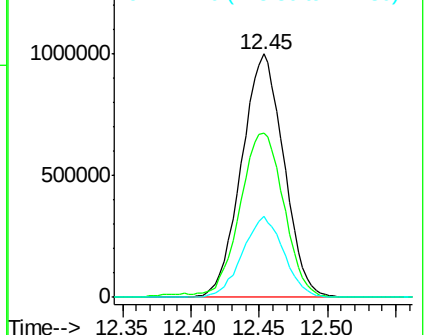
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.54 ppbv

RT: 13.01 min Scan# 3709

Delta R.T. 0.00 min

Lab File: VL031967.D

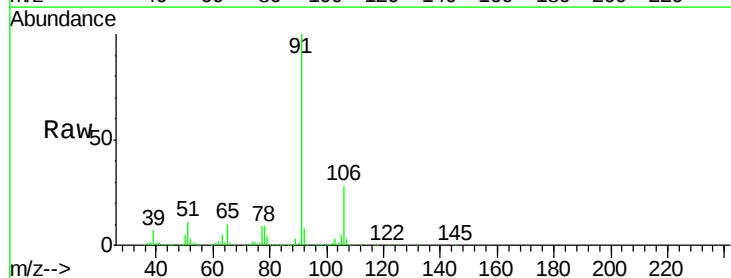
Acq: 3 May 2018 16:17

Tgt Ion: 91 Resp: 3901325

Ion Ratio Lower Upper

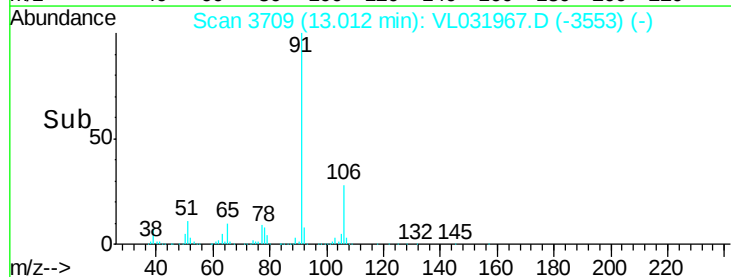
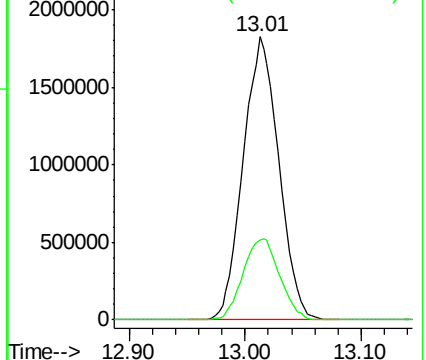
91 100

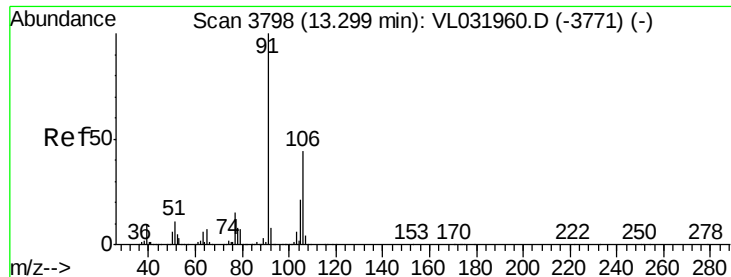
106 28.0 23.4 35.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





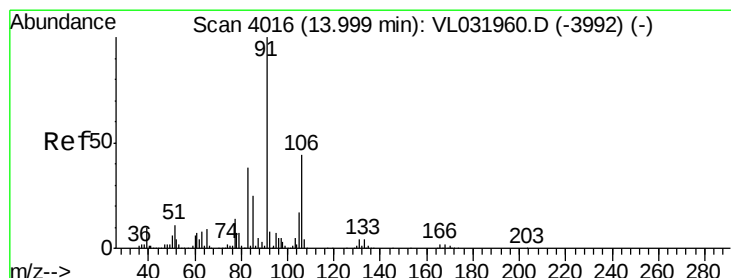
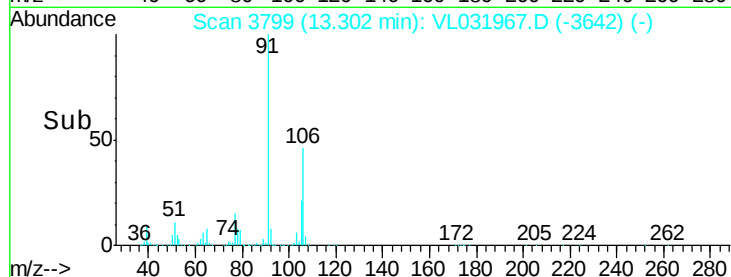
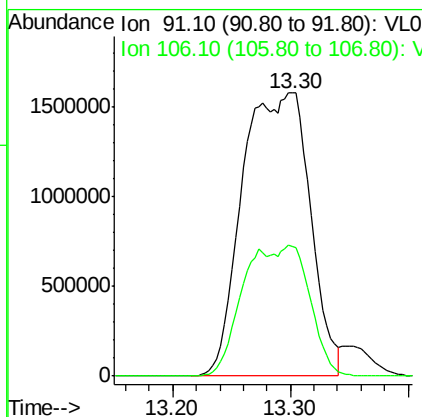
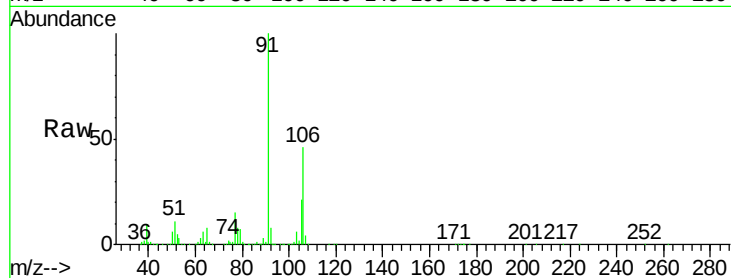
#59
m/p-Xylene
Concen: 18.15 ppbv m
RT: 13.30 min Scan# 3799
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion: 91 Resp: 6294368
Ion Ratio Lower Upper
91 100
106 45.3 35.9 53.9

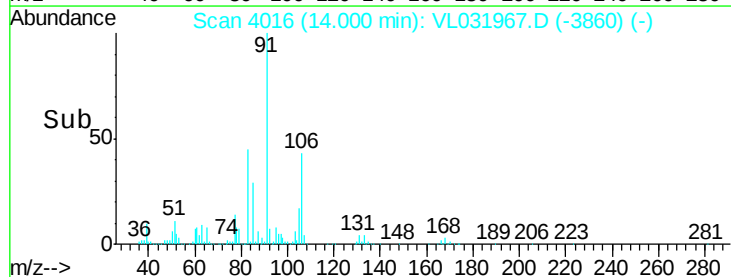
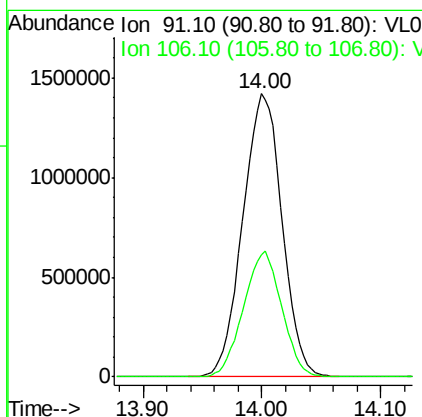
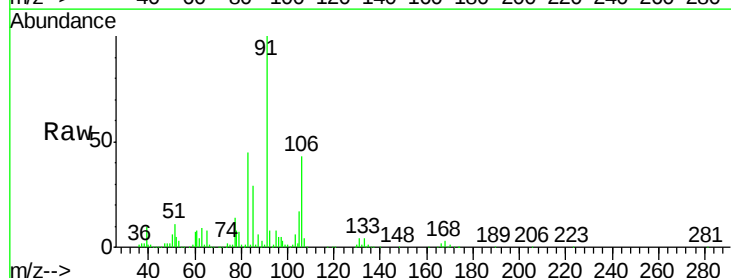
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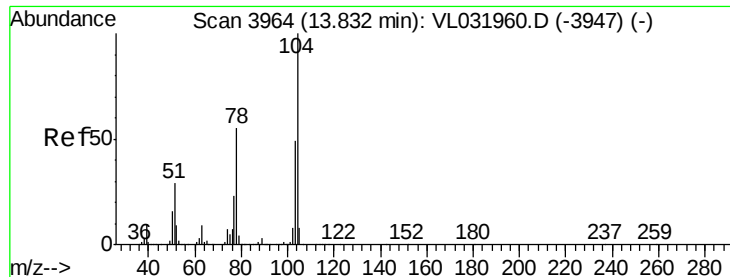
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#60
o-Xylene
Concen: 9.29 ppbv
RT: 14.00 min Scan# 4016
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion: 91 Resp: 3235377
Ion Ratio Lower Upper
91 100
106 43.4 21.5 64.5





#61

Stvrene

Concen: 10.92 ppbv

RT: 13.84 min Scan# 3965

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

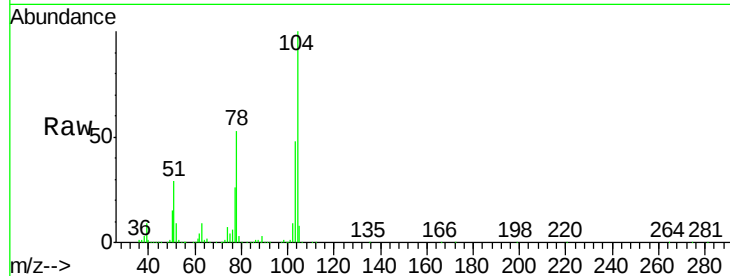
ClientSampleId :

ICVVL050318

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.7	43.8	65.8
103	46.0	38.4	57.6

Manual Integrations
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

13.84

400000

300000

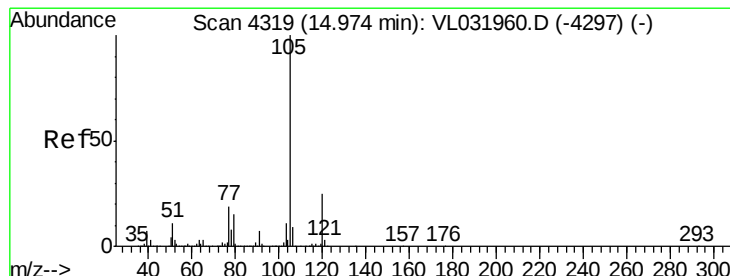
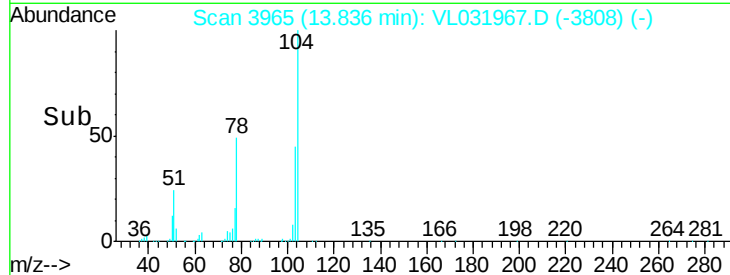
200000

100000

0

13.80 13.90

Time-->



#62

Isopropylbenzene

Concen: 9.13 ppbv

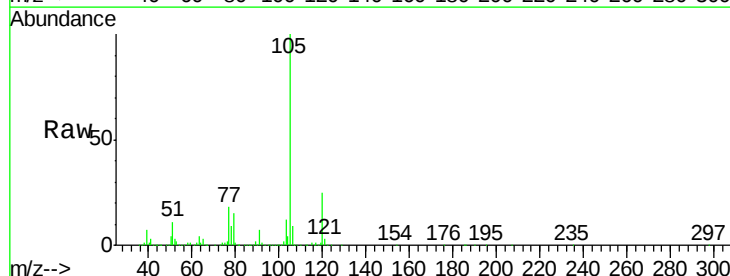
RT: 14.98 min Scan# 4320

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	19.9	29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.98

2000000

1500000

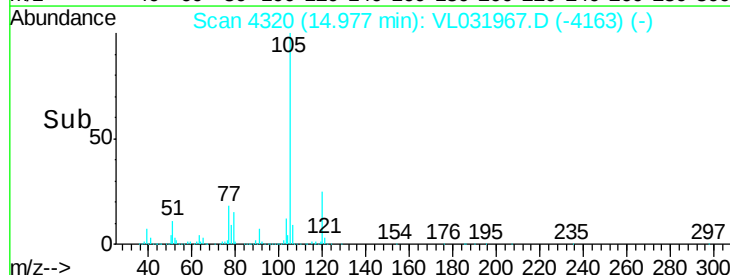
1000000

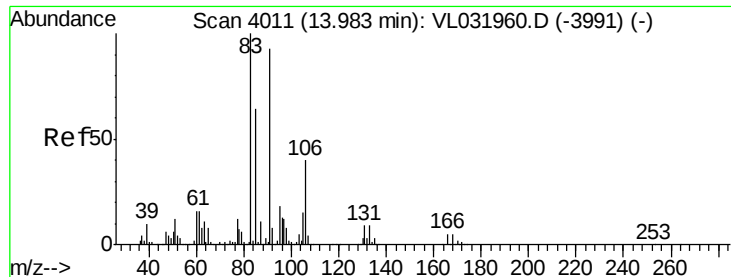
500000

0

14.90 15.00

Time-->





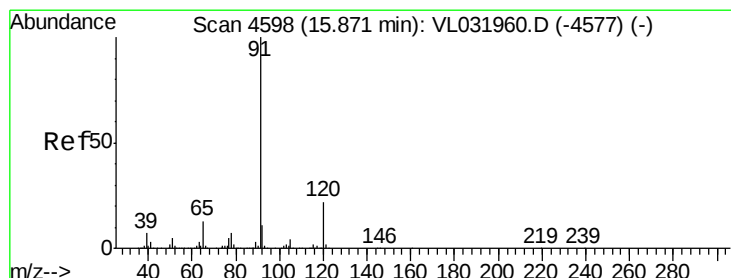
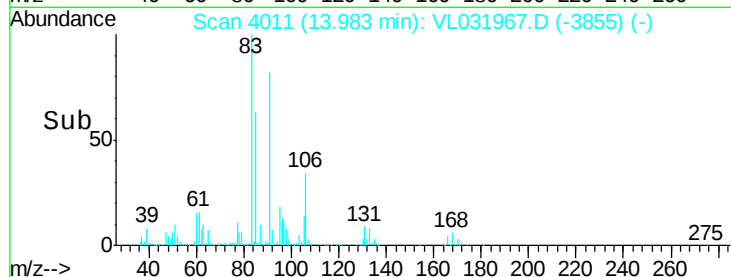
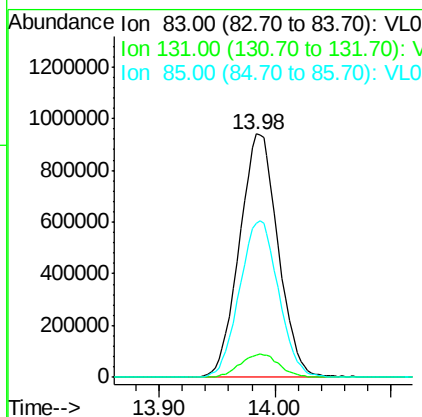
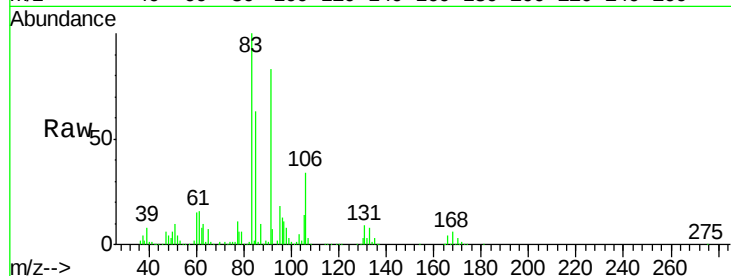
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.81 ppbv
 RT: 13.98 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050318

Tot Ion	83	Resp	2177019
Ion Ratio	100	Lower	Upper
83	100		
131	9.6	4.9	14.7
85	65.2	32.7	98.1

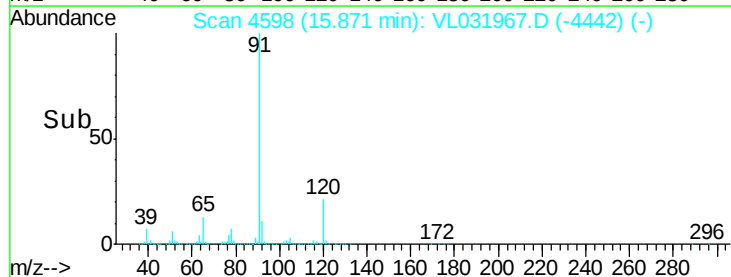
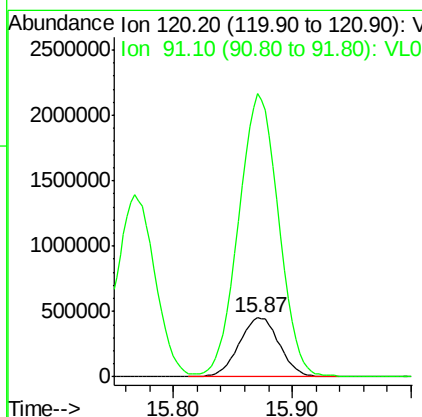
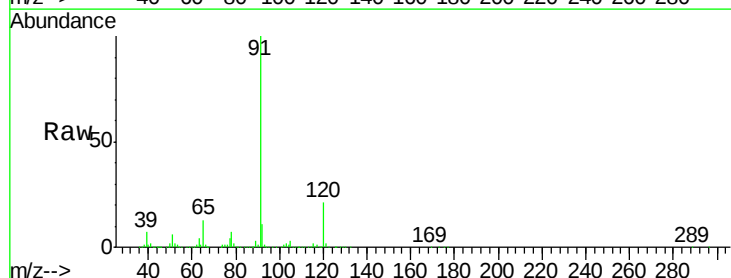
Manual Integrations
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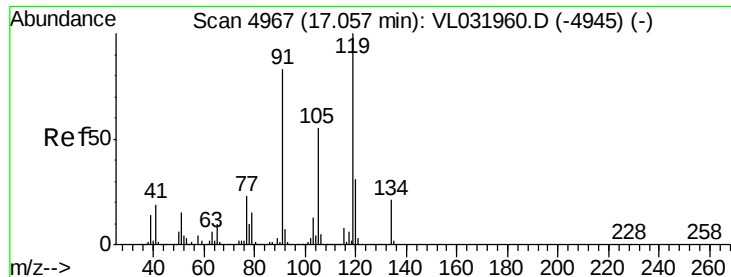
MMDadoda
 5/4/2018 5:01:03 PM



#64
 n-propylbenzene
 Concen: 9.47 ppbv
 RT: 15.87 min Scan# 4598
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Tgt Ion	120	Resp	1057102
Ion Ratio	100	Lower	Upper
120	100		
91	478.2	388.6	583.0





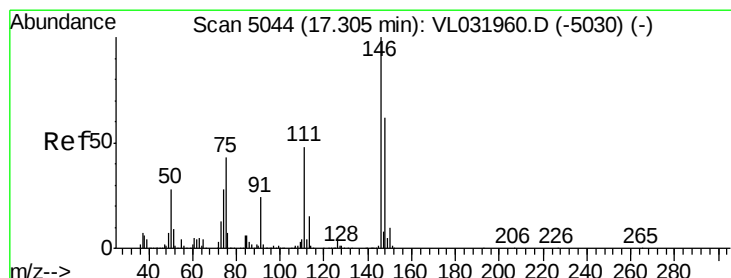
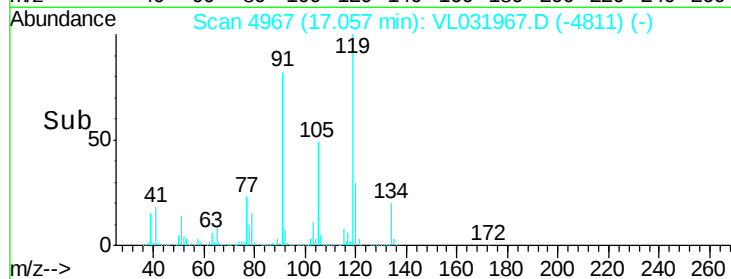
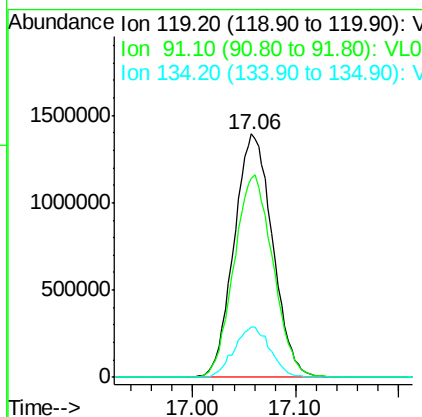
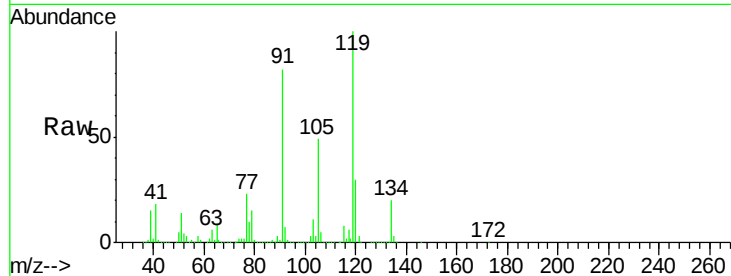
#65
tert-Butylbenzene
Concen: 9.11 ppbv
RT: 17.06 min Scan# 4967
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion: 119 Resp: 3617203
Ion Ratio Lower Upper
119 100
91 84.2 68.1 102.1
134 19.5 15.4 23.0

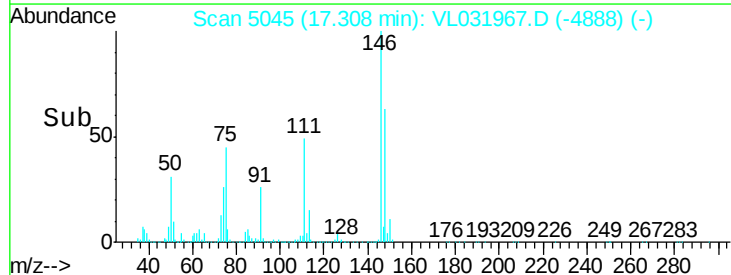
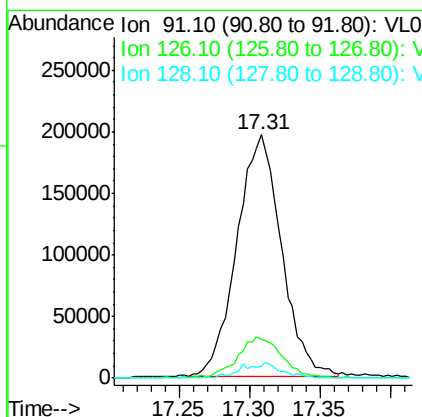
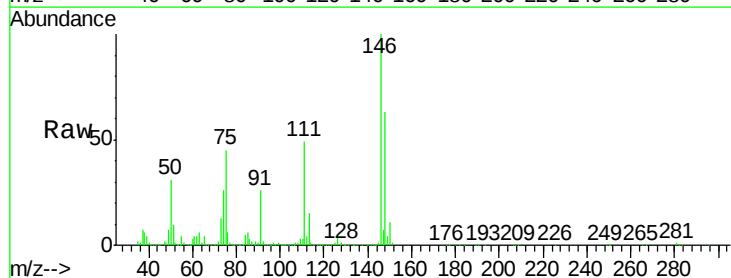
Manual Integrations
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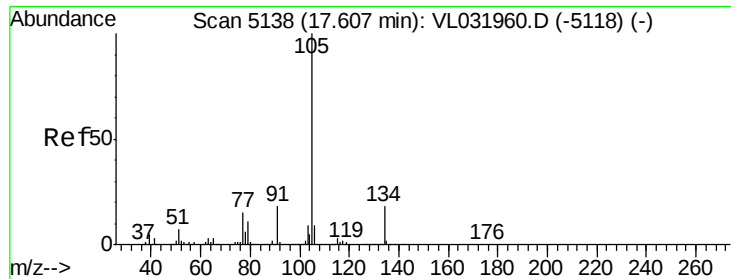
MMDadoda
5/4/2018 5:01:03 PM



#66
Benzyl Chloride
Concen: 11.98 ppbv
RT: 17.31 min Scan# 5045
Delta R.T. 0.00 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion: 91 Resp: 431791
Ion Ratio Lower Upper
91 100
126 17.3 13.4 20.0
128 5.7 4.6 6.8





#67

sec-Butylbenzene

Concen: 9.45 ppbv

RT: 17.61 min Scan# 5138

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion:105 Resp: 5204957

Ion Ratio Lower Upper

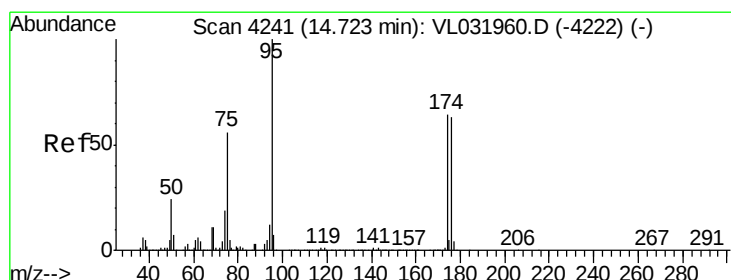
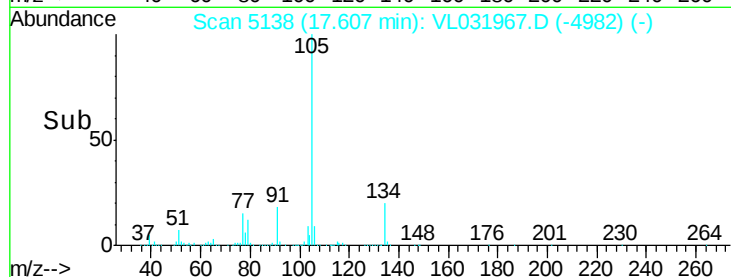
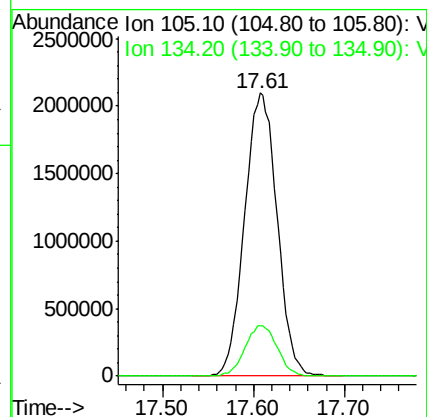
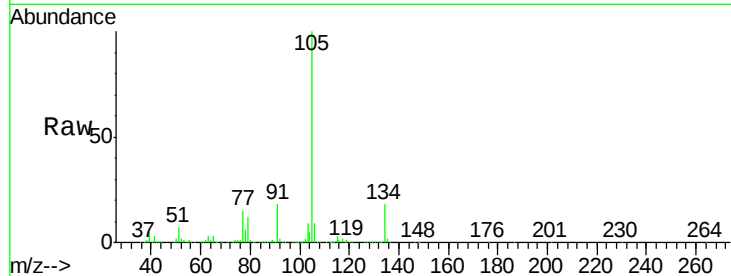
105 100

134 17.8 14.2 21.4

Manual Integrations
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5/4/2018 5:01:03 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.77 ppbv

RT: 14.73 min Scan# 4243

Delta R.T. 0.01 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

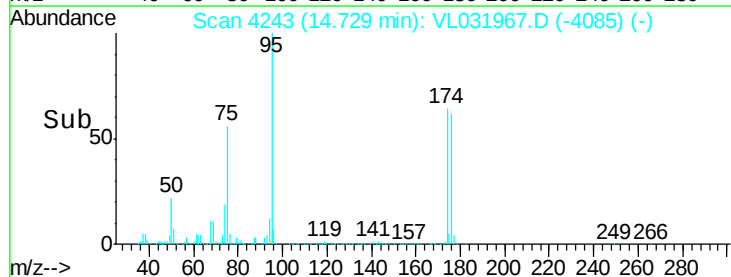
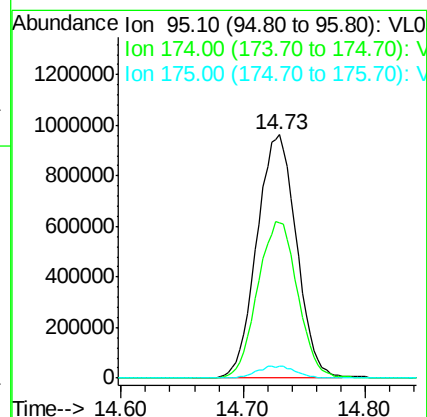
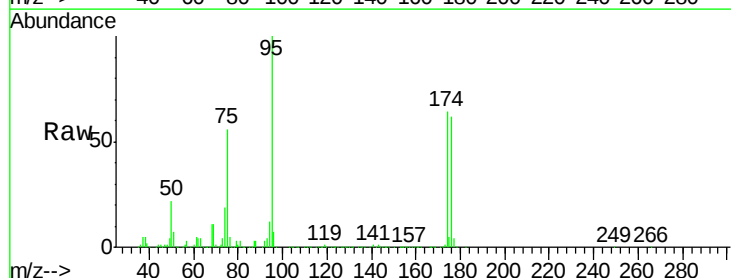
Tgt Ion: 95 Resp: 2163497

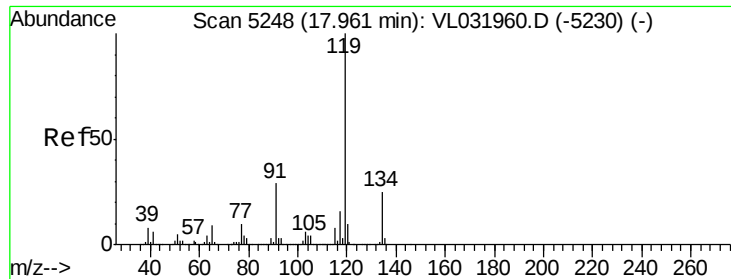
Ion Ratio Lower Upper

95 100

174 65.3 53.0 79.6

175 4.8 3.9 5.9





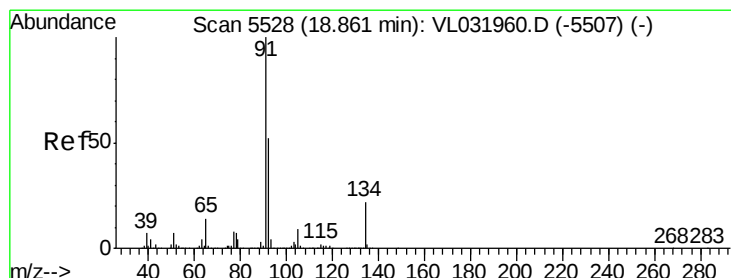
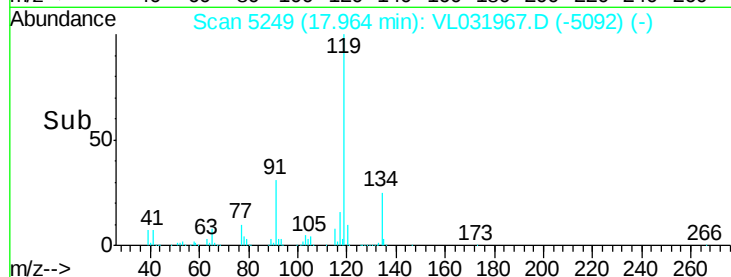
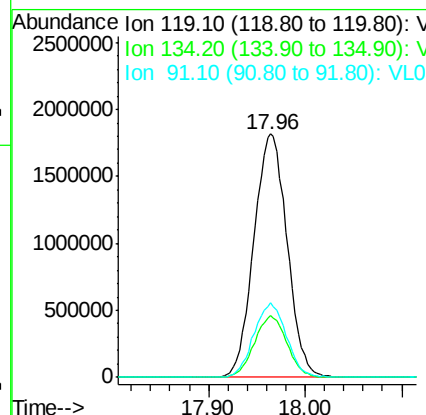
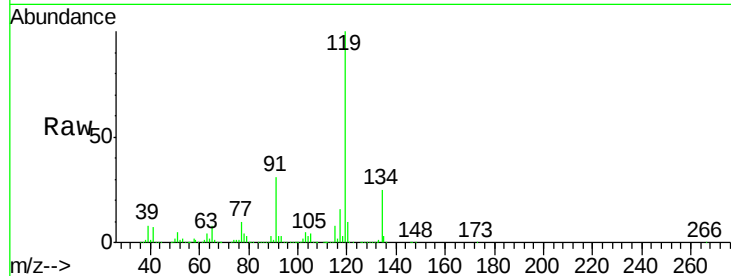
#69
 p-Isopropyltoluene
 Concen: 9.76 ppbv
 RT: 17.96 min Scan# 5249
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050318

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.9	19.8	29.8
91	30.2	23.8	35.6

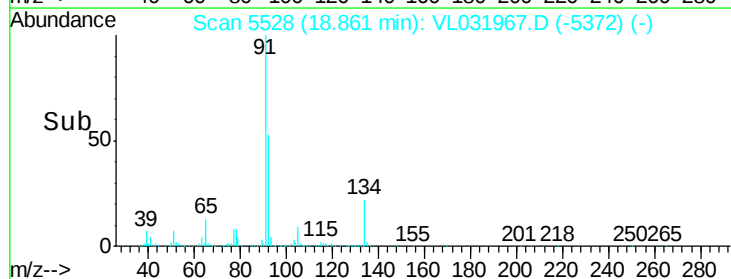
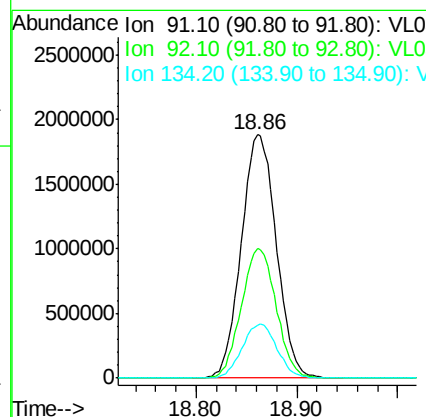
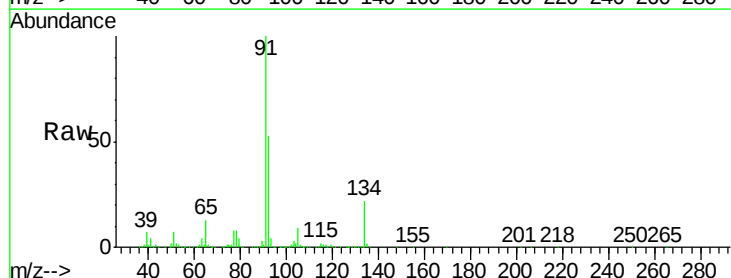
Manual Integrations
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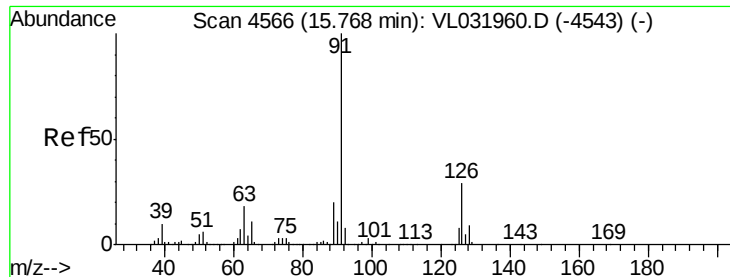
MMDadoda
 5/4/2018 5:01:03 PM



#70
 n-Butylbenzene
 Concen: 9.88 ppbv
 RT: 18.86 min Scan# 5528
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.0	41.8	62.8
134	22.2	17.6	26.4





#71

2-Chlorotoluene

Concen: 9.69 ppbv

RT: 15.77 min Scan# 4566

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion: 91 Resp: 3156013

Ion Ratio Lower Upper

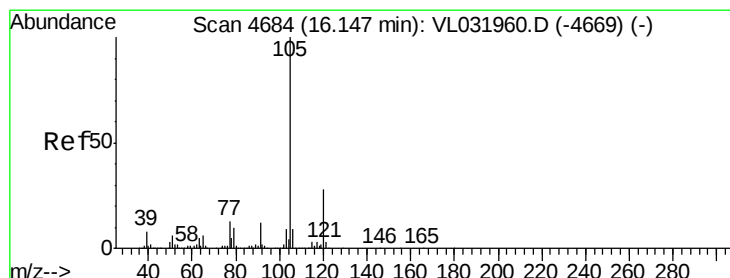
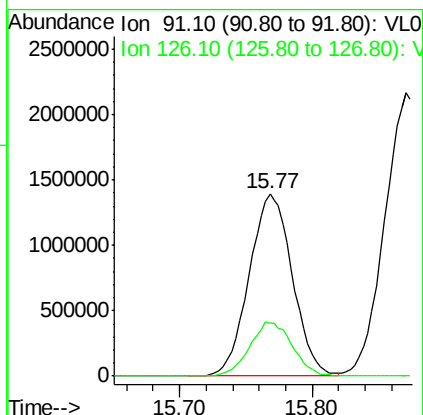
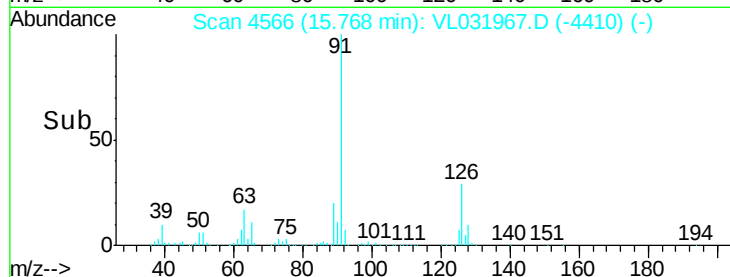
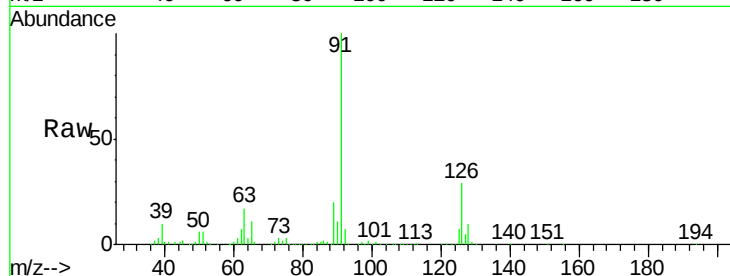
91 100

126 29.5 11.8 47.2

Manual Integrations
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#72

4-Ethyltoluene

Concen: 9.74 ppbv

RT: 16.15 min Scan# 4685

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Tgt Ion: 105 Resp: 3440796

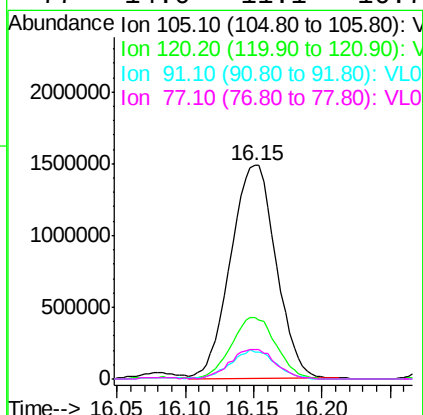
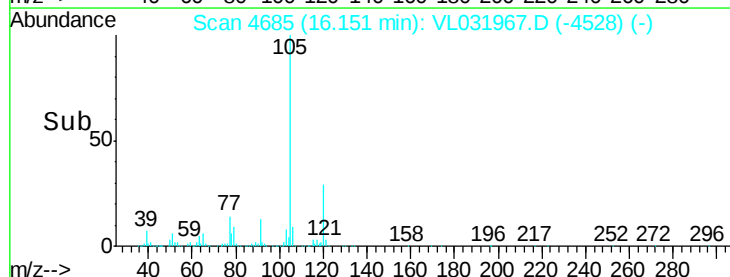
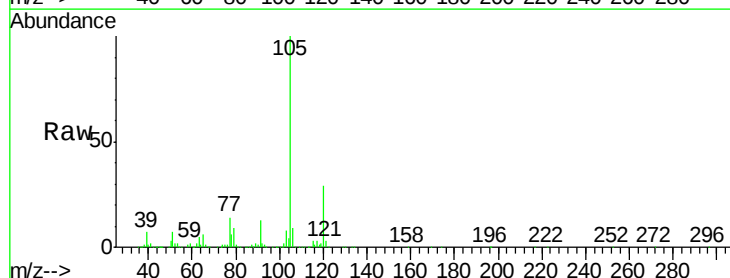
Ion Ratio Lower Upper

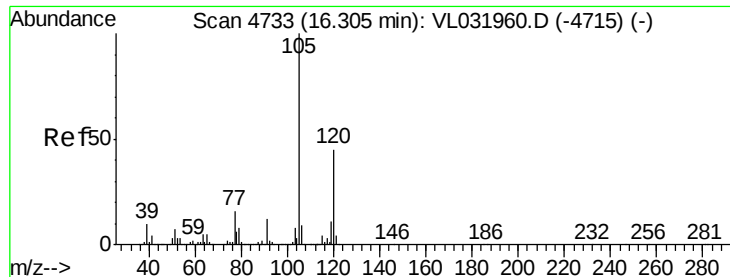
105 100

120 28.7 22.6 33.8

91 13.0 10.5 15.7

77 14.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.59 ppbv

RT: 16.31 min Scan# 4734

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050318

Tot Ion:105 Resp: 3134915

Ion Ratio Lower Upper

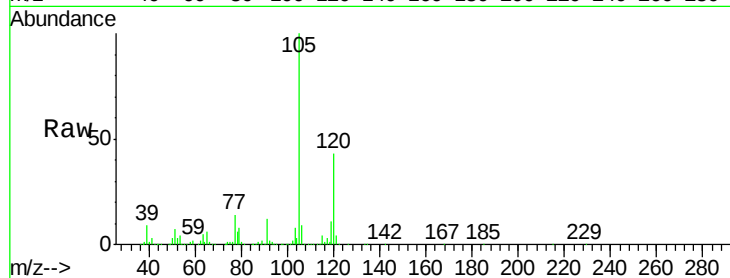
105 100

120 43.0 36.0 54.0

Manual Integrations
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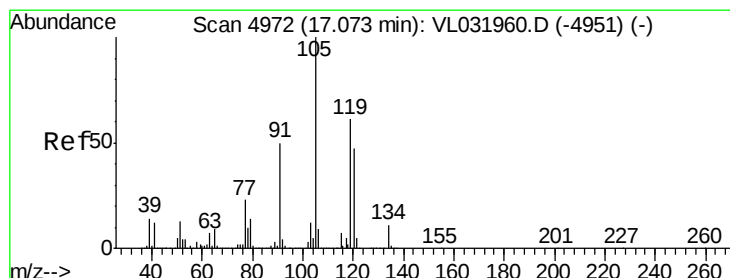
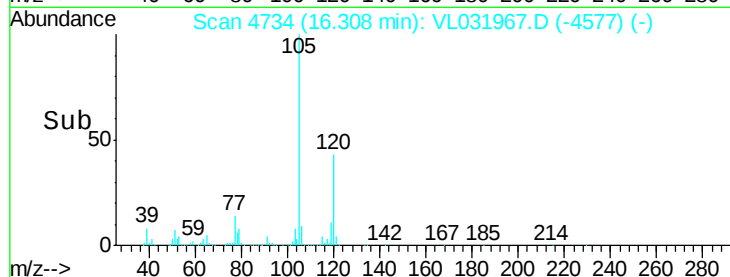
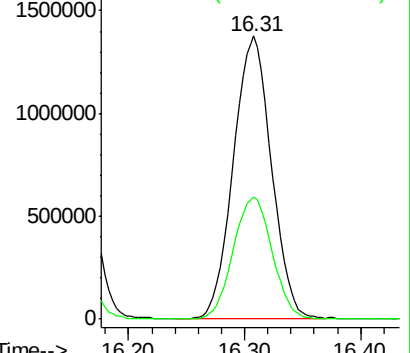
MMDadoda

5/4/2018 5:01:03 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.32 ppbv

RT: 17.08 min Scan# 4973

Delta R.T. 0.00 min

Lab File: VL031967.D

Acq: 3 May 2018 16:17

Tgt Ion:105 Resp: 3368702

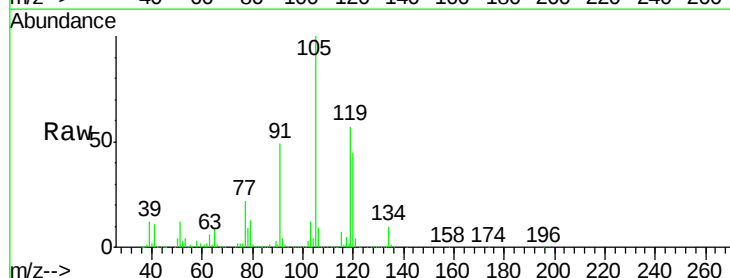
Ion Ratio Lower Upper

105 100

120 45.2 37.8 56.6

91 48.6 40.5 60.7

77 22.0 18.2 27.2

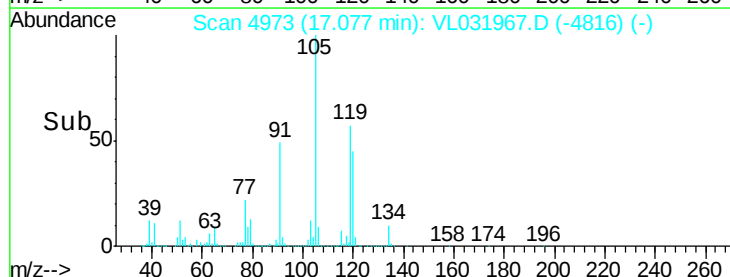
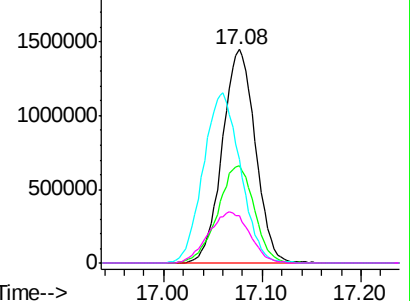


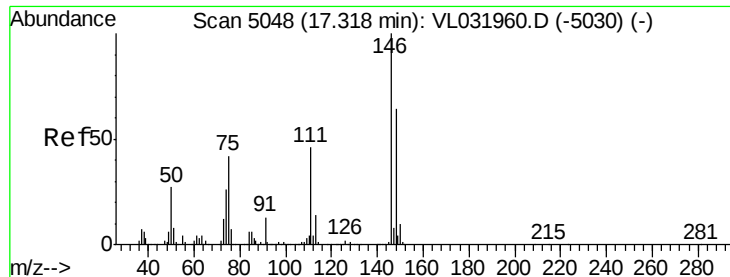
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





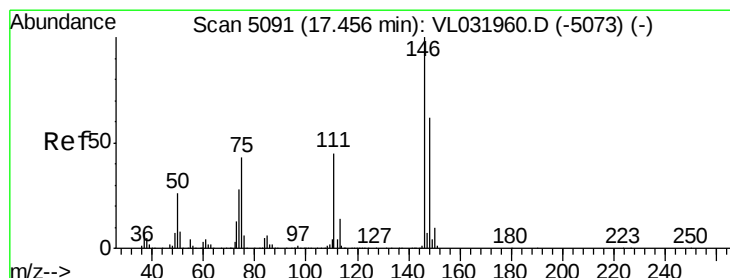
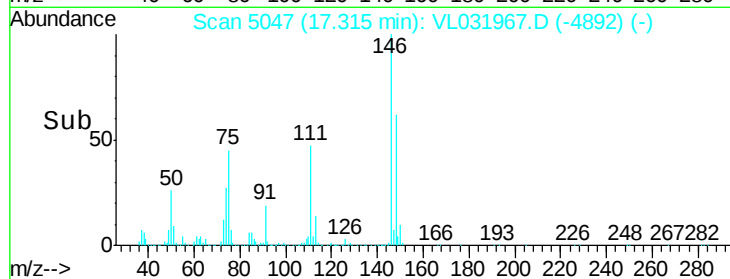
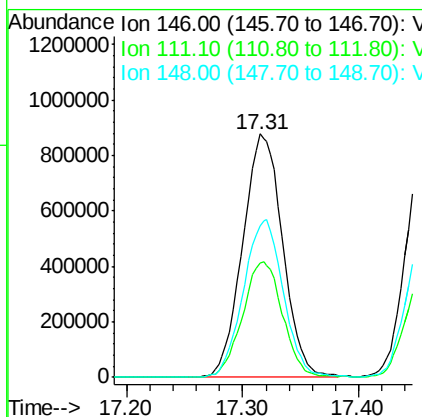
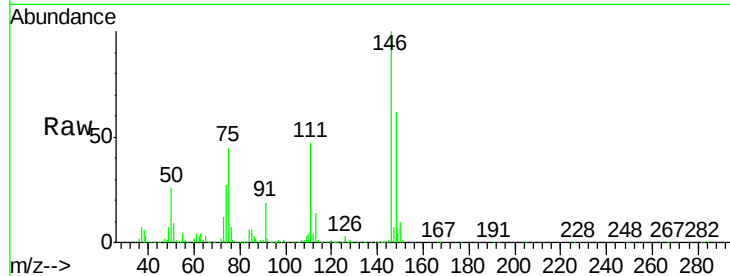
#75
 1,3-Dichlorobenzene
 Concen: 9.43 ppbv
 RT: 17.31 min Scan# 5047
 Delta R.T. -0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050318

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.5	70.5
148	64.7	32.3	96.8

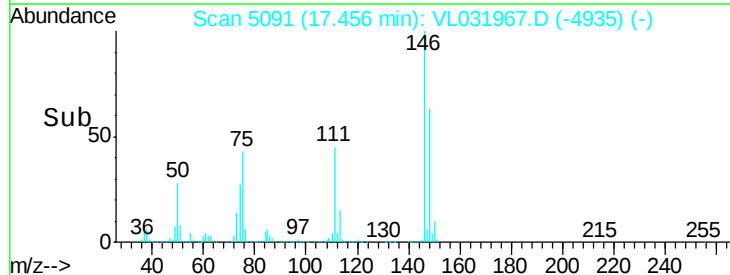
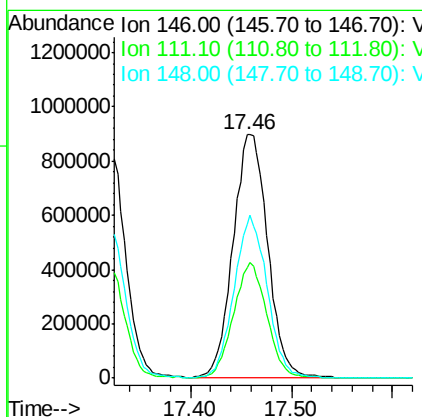
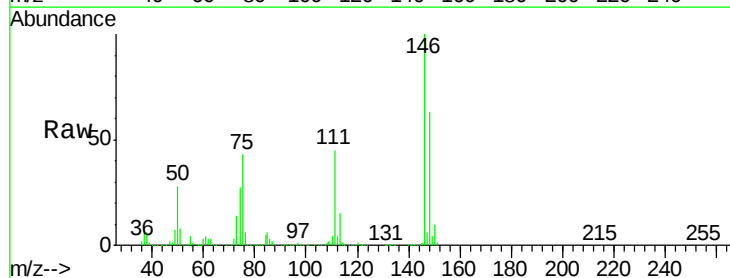
Manual Integrations
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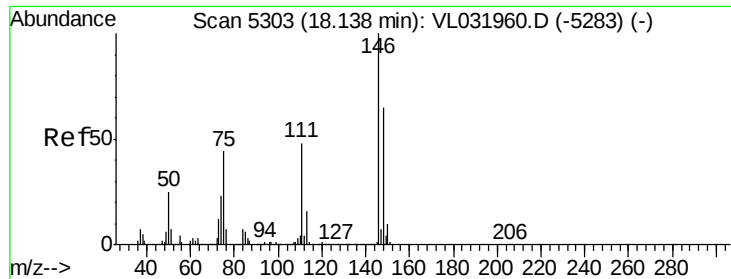
MMDadoda
 5/4/2018 5:01:03 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.69 ppbv
 RT: 17.46 min Scan# 5091
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.9	23.0	69.0
148	63.9	32.4	97.2





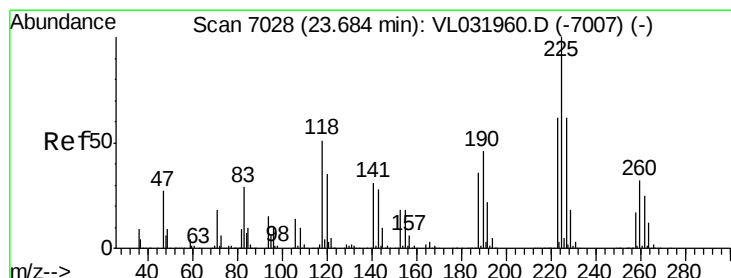
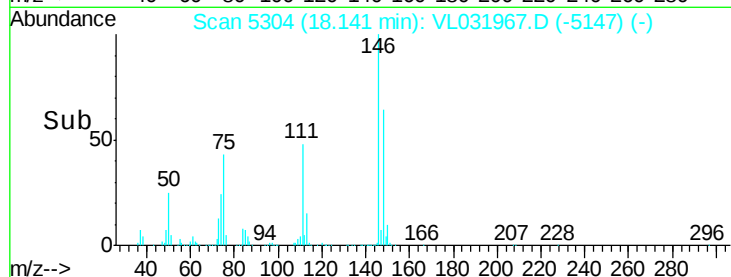
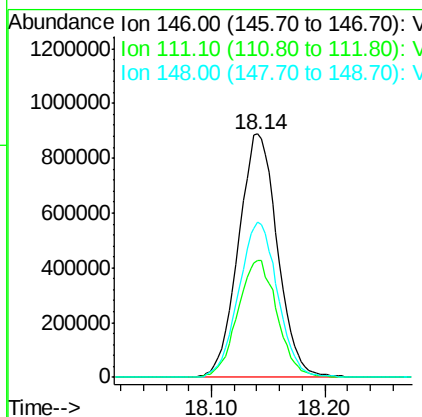
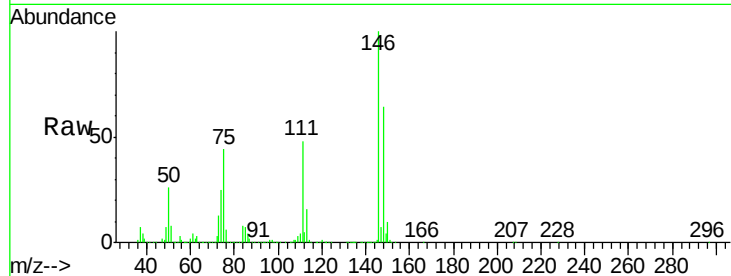
#77
 1,2-Dichlorobenzene
 Concen: 9.50 ppbv
 RT: 18.14 min Scan# 5304
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050318

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	24.2	72.6
148	63.9	32.0	96.2

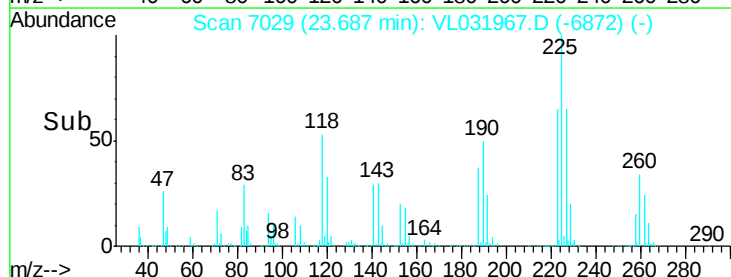
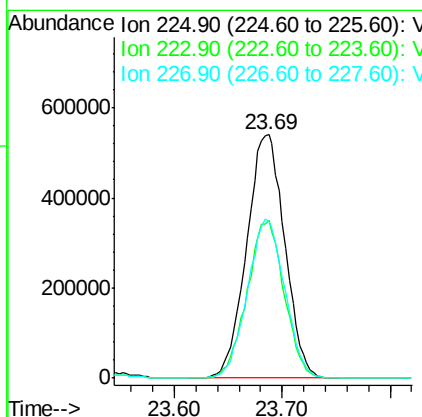
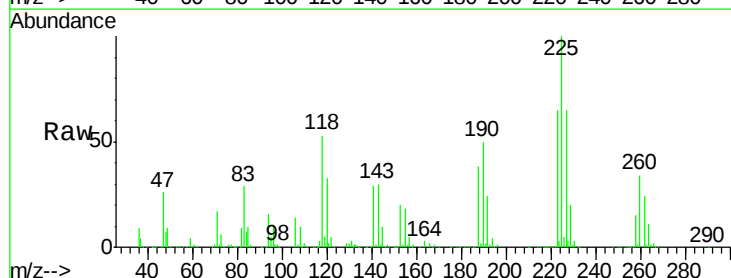
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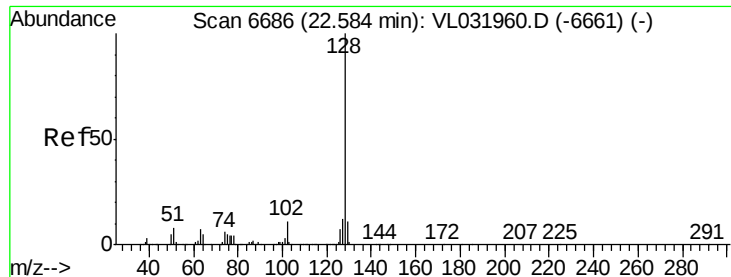
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#78
 Hexachloro-1,3-Butadiene
 Concen: 12.94 ppbv
 RT: 23.69 min Scan# 7029
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.8	76.2
227	64.0	50.9	76.3





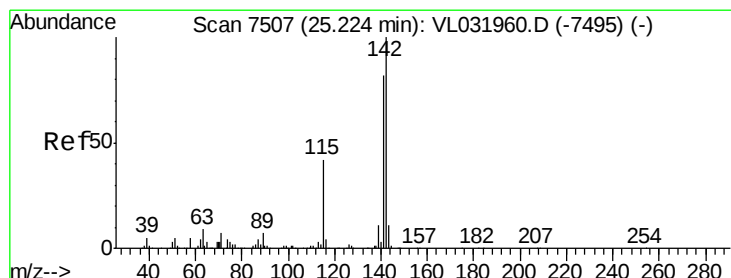
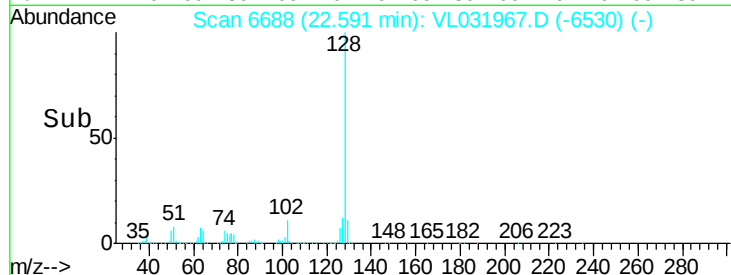
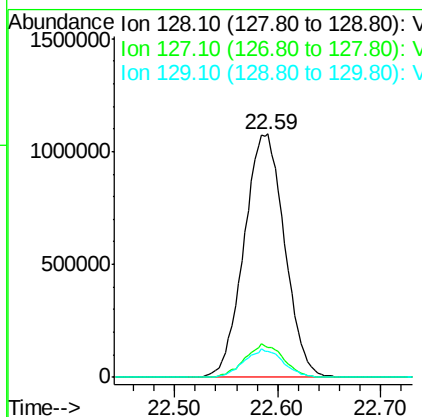
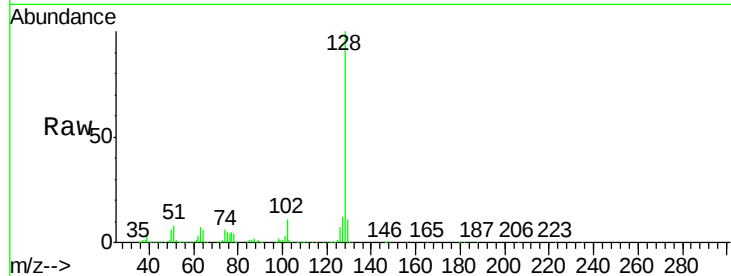
#79
Naphthalene
Concen: 11.69 ppbv
RT: 22.59 min Scan# 6686
Delta R.T. 0.01 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050318

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.0	15.0
129	10.6	9.0	13.4

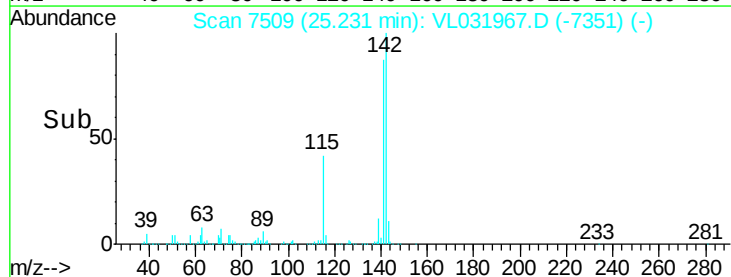
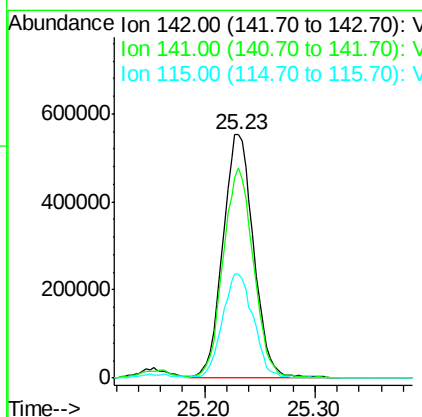
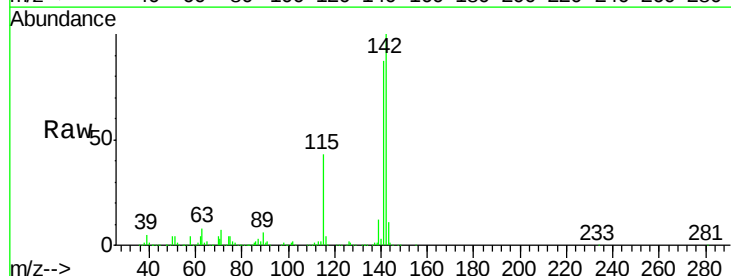
Manual Integrations
APPROVED

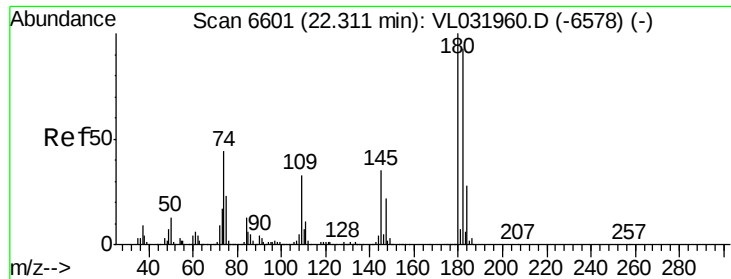
MMDadoda
5/4/2018 5:01:03 PM



#80
Naphthalene, 2-methyl-
Concen: 17.63 ppbv
RT: 25.23 min Scan# 7509
Delta R.T. 0.01 min
Lab File: VL031967.D
Acq: 3 May 2018 16:17

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.7	67.9	101.9
115	43.5	33.8	50.8





#81
 1,2,4-Trichlorobenzene
 Concen: 10.70 ppbv
 RT: 22.31 min Scan# 6601
 Delta R.T. 0.00 min
 Lab File: VL031967.D
 Acq: 3 May 2018 16:17

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050318

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.6	114.8
184	30.3	24.0	36.0

Manual Integrations
 APPROVED

MMDadoda
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