

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012819\
 Data File : VL033123.D
 Acq On : 28 Jan 2019 23:10
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012819

Manual Integrations
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 1/29/2019 2:38:25 PM

Quant Time: Jan 28 23:56:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 2019
 QLast Update : Mon Jan 28 23:42:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1244847	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3166772	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3145294	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2333154	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	2451821	8.319	ppbv 100
3) Chlorodifluoromethane	3.01	51	1368379	8.285	ppbv 98
4) Chloromethane	3.17	50	769389	8.575	ppbv 99
5) Vinyl Chloride	3.29	62	787470	7.690	ppbv 99
6) Bromomethane	3.51	94	518487	8.589	ppbv 97
7) Chloroethane	3.60	64	292150	8.360	ppbv 94
8) Dichlorotetrafluoroethane	3.22	85	1944675	8.246	ppbv 99
9) Propene	3.03	41	589274	9.161	ppbv 99
10) Heptane	8.25	43	1466731	9.398	ppbv 99
11) Trichlorofluoromethane	4.00	101	2049336	8.158	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1386240	7.953	ppbv 98
13) Ethanol	3.64	45	136426	5.911	ppbv 100
14) Bromoethene	3.79	108	628657	8.327	ppbv 99
15) Acetone	3.90	43	1305753	7.768	ppbv 99
16) 1,3-Butadiene	3.36	39	636835	9.064	ppbv 95
17) tert-Butyl alcohol	4.35	59	321337	8.610	ppbv 98
18) 1,1-Dichloroethene	4.35	96	649770	8.398	ppbv 95
19) Isopropyl Alcohol	4.02	45	924019	8.072	ppbv 100
20) Methylene Chloride	4.40	84	559481	7.330	ppbv 96
21) Allyl Chloride	4.47	41	1025679	8.758	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	647046	8.325	ppbv 99
23) Vinyl Acetate	5.15	43	2171276	9.135	ppbv 100
24) 1,1-Dichloroethane	5.09	63	1634043	8.489	ppbv 99
25) Ethyl Acetate	5.76	43	2621333	8.766	ppbv 100
26) Hexane	5.78	57	1215819	8.477	ppbv 98
27) Carbon Disulfide	4.62	76	1634960	8.731	ppbv 97
28) Methyl tert-Butyl Ether	5.11	73	2035270	9.043	ppbv 100
29) Chloroform	5.84	83	2022639	8.559	ppbv 99
30) Cyclohexane	7.24	84	1045397	9.703	ppbv 98
31) cis-1,2-Dichloroethene	5.64	61	1244877	9.507	ppbv 95
32) 1,1,1-Trichloroethane	6.62	97	2029363	6.637	ppbv 100
34) 2-Butanone	5.32	43	1658858	9.231	ppbv 99
35) Carbon Tetrachloride	7.13	117	2221478	7.662	ppbv 99
36) Benzene	7.00	78	2456862	8.791	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1495413	8.121	ppbv 99
38) Trichloroethene	7.96	130	1016093	8.946	ppbv 94
39) 1,2-Dichloropropane	7.73	63	918177	9.330	ppbv 96
40) 1,4-Dioxane	7.95	88	319624	8.506	ppbv # 1
41) Tetrahydrofuran	6.14	42	944134	9.335	ppbv 100
42) Bromodichloromethane	7.91	83	2169659	8.884	ppbv 98
43) Methyl Methacrylate	8.13	69	981439	10.032	ppbv 99

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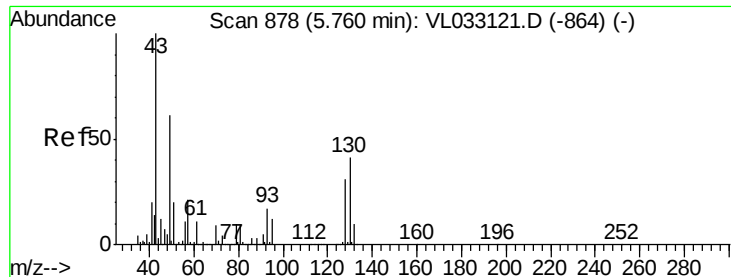
Manual Integrations
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Quant Time: Jan 28 23:56:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4102786	9.297	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1354609	11.293	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1557789	10.864	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	1029628	9.024	ppbv	95
48) Dibromochloromethane	10.45	129	1912204	9.497	ppbv	100
49) Bromoform	13.20	173	1622500	9.644	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2317183	9.660	ppbv	100
51) 2-Hexanone	10.27	43	1753428	10.487	ppbv	100
52) Tetrachloroethene	11.37	164	892406	9.602	ppbv	98
53) Toluene	9.94	91	2881846	10.315	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1594729	9.732	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1325483	8.538	ppbv	98
57) Chlorobenzene	12.30	112	2234143	8.882	ppbv	99
58) Ethyl Benzene	12.86	91	3905832	10.528	ppbv	99
59) m/p-Xylene	13.15	91	6648157m	19.349	ppbv	
60) o-Xylene	13.85	91	3251041	9.131	ppbv	99
61) Styrene	13.69	104	2427151	10.676	ppbv	99
62) Isopropylbenzene	14.83	105	4594862	9.108	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2222444	7.837	ppbv	99
64) n-propylbenzene	15.72	120	1086654	8.876	ppbv	97
65) tert-Butylbenzene	16.91	119	3678203	8.679	ppbv	100
66) Benzyl Chloride	17.16	91	2217072	9.717	ppbv	100
67) sec-Butylbenzene	17.46	105	5242429	8.617	ppbv	99
69) p-Isopropyltoluene	17.82	119	4287404	8.254	ppbv	99
70) n-Butylbenzene	18.72	91	4190275	8.882	ppbv	100
71) 2-Chlorotoluene	15.62	91	3128026	9.093	ppbv	99
72) 4-Ethyltoluene	16.00	105	3436222	9.172	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3221953	8.793	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	3343748m	8.617	ppbv	
75) 1,3-Dichlorobenzene	17.17	146	1872465	7.989	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1862380	8.621	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1837033m	7.798	ppbv	
78) Hexachloro-1,3-Butadiene	23.55	225	1190942	8.630	ppbv	100
79) Naphthalene	22.41	128	2736862	11.464	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1010731	16.958	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1324158	10.884	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 49 Resp: 1244847

Ion Ratio Lower Upper

49 100

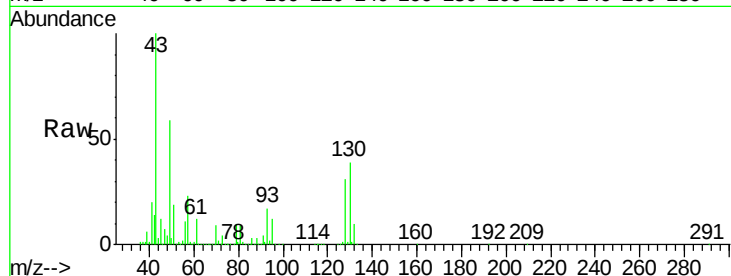
128 52.5 25.9 77.7

130 67.8 32.9 98.7

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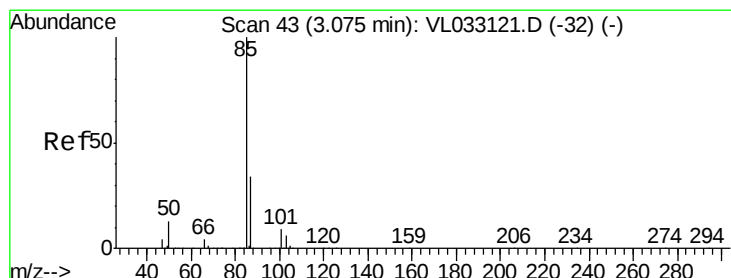
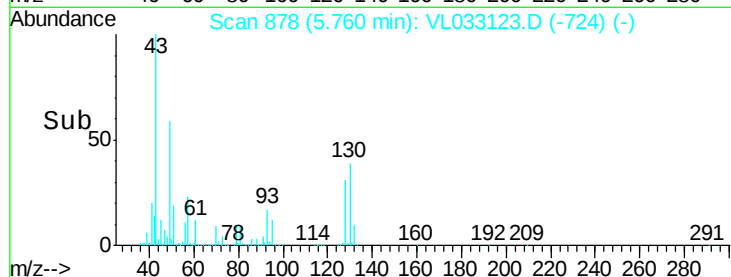
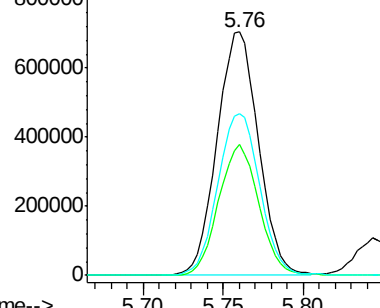
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.319 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033123.D

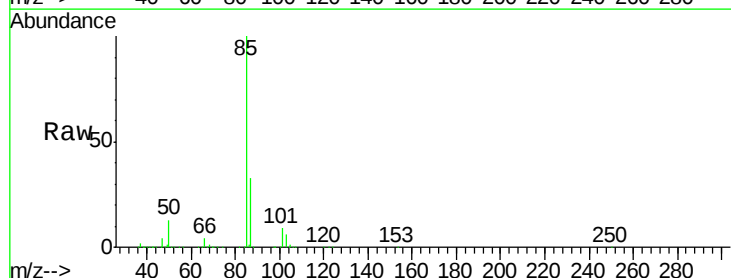
Acq: 28 Jan 2019 23:10

Tgt Ion: 85 Resp: 2451821

Ion Ratio Lower Upper

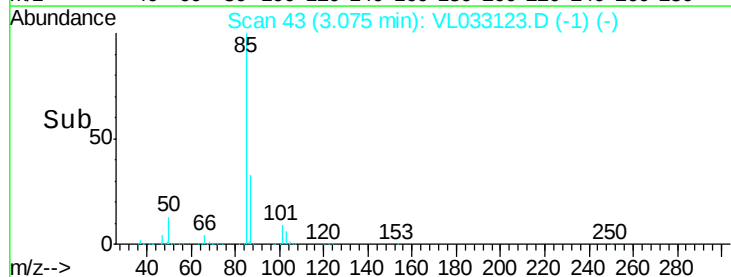
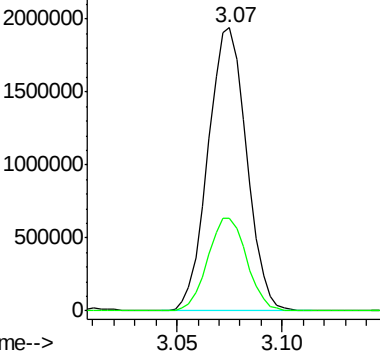
85 100

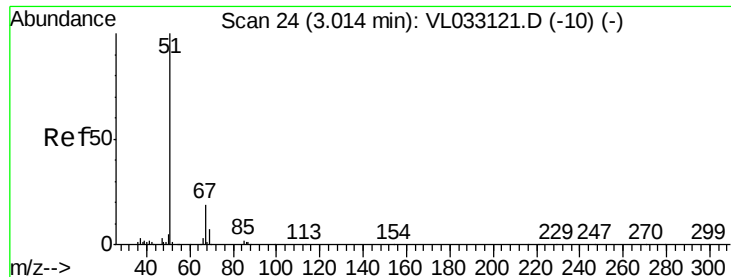
87 32.8 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.285 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 51 Resp: 1368379

Ion Ratio Lower Upper

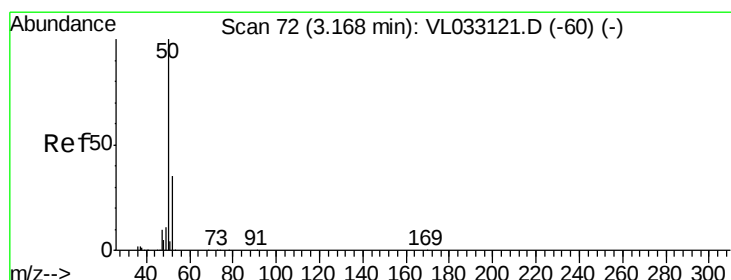
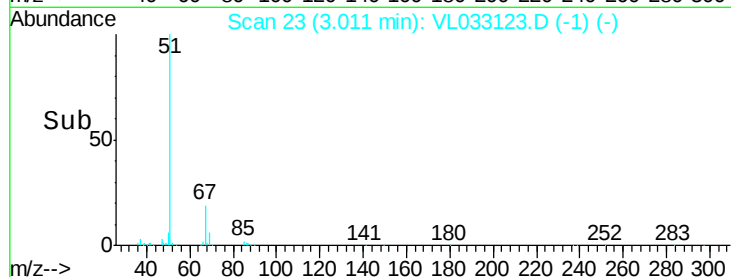
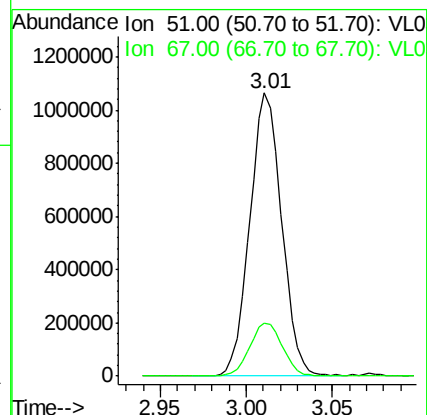
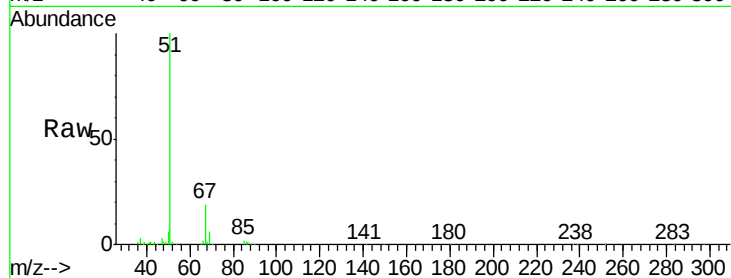
51 100

67 19.3 16.2 24.2

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#4

Chloromethane

Concen: 8.575 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033123.D

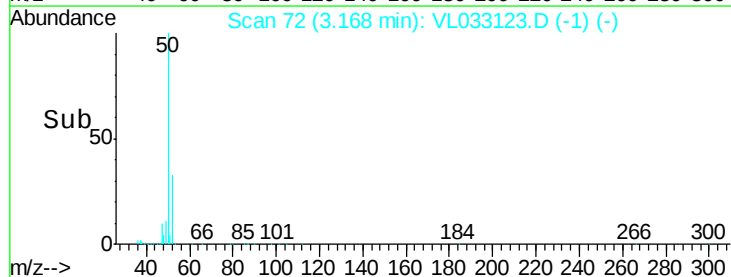
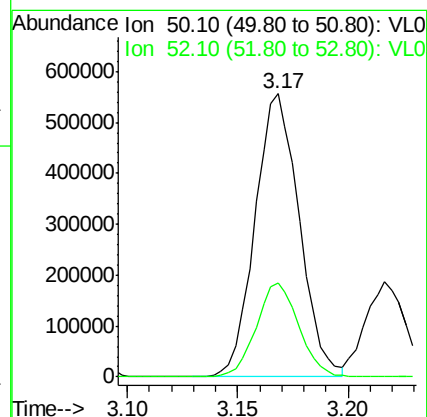
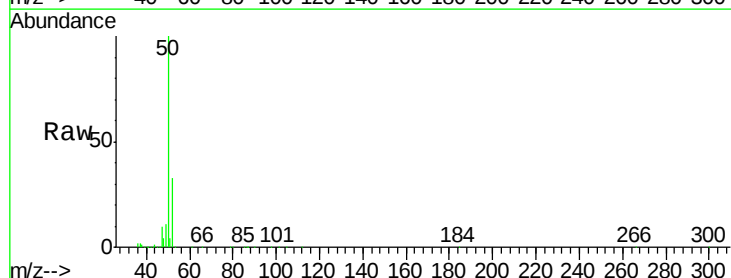
Acq: 28 Jan 2019 23:10

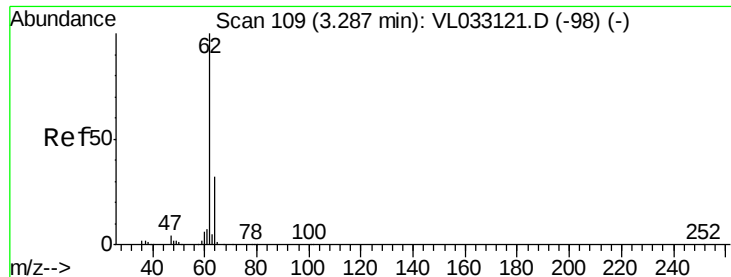
Tgt Ion: 50 Resp: 769389

Ion Ratio Lower Upper

50 100

52 33.0 27.0 40.4





#5

Vinyl Chloride

Concen: 7.690 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 62 Resp: 787470

Ion Ratio Lower Upper

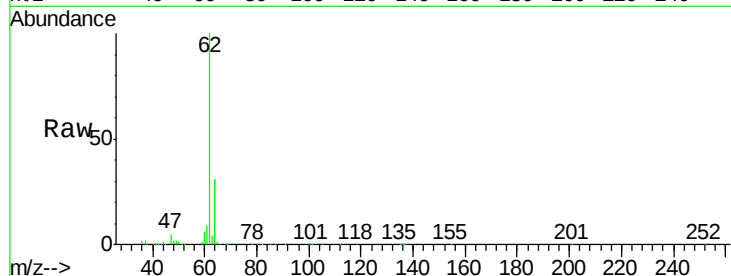
62 100

64 31.3 25.7 38.5

Manual Integrations
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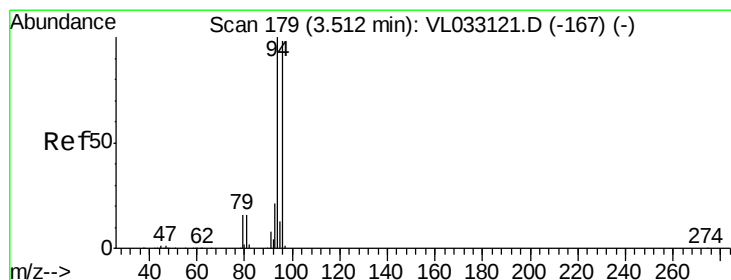
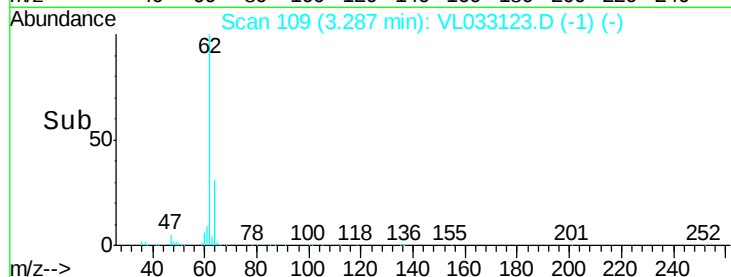
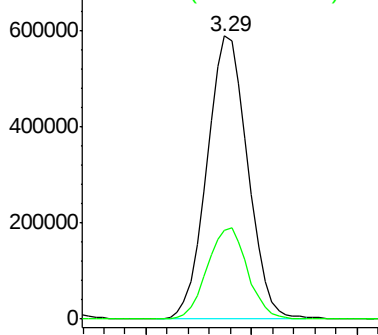
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.589 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033123.D

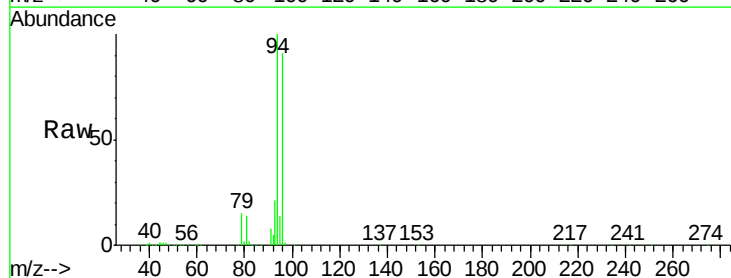
Acq: 28 Jan 2019 23:10

Tgt Ion: 94 Resp: 518487

Ion Ratio Lower Upper

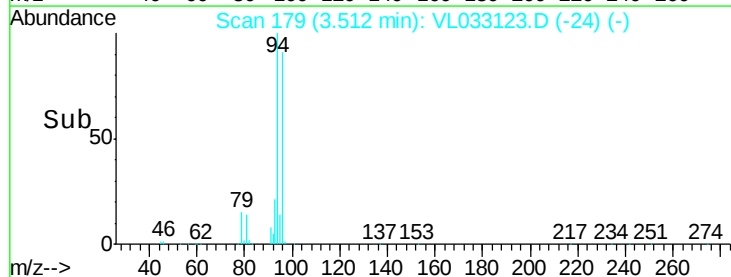
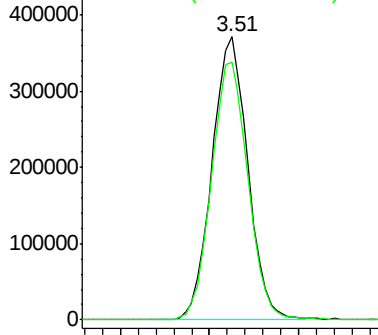
94 100

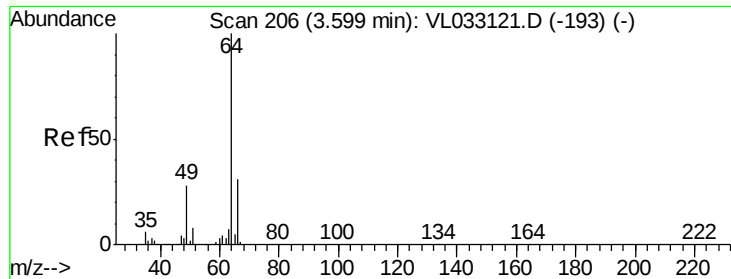
96 91.2 75.4 113.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.360 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 64 Resp: 292150

Ion Ratio Lower Upper

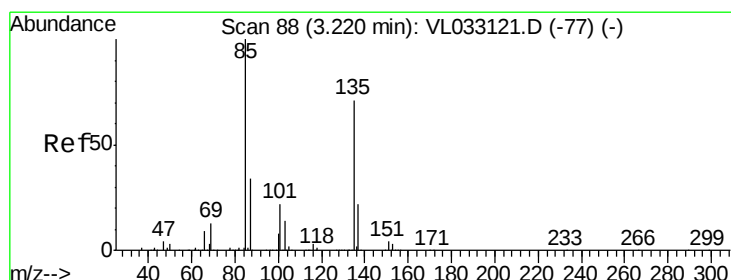
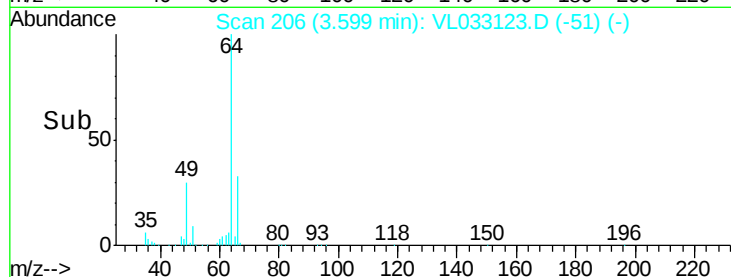
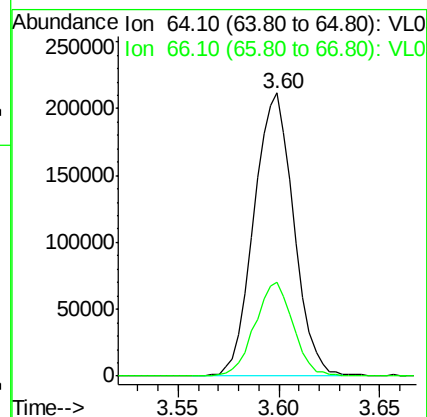
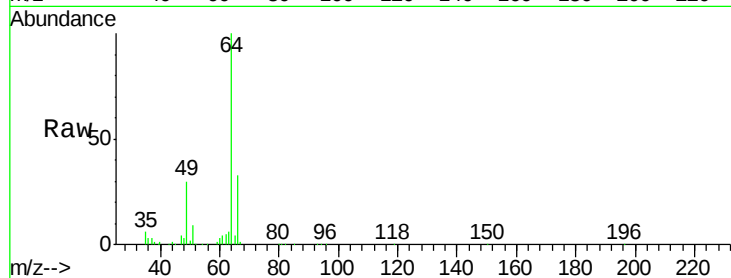
64 100

66 33.4 24.0 36.0

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#8

Dichlorotetrafluoroethane

Concen: 8.246 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033123.D

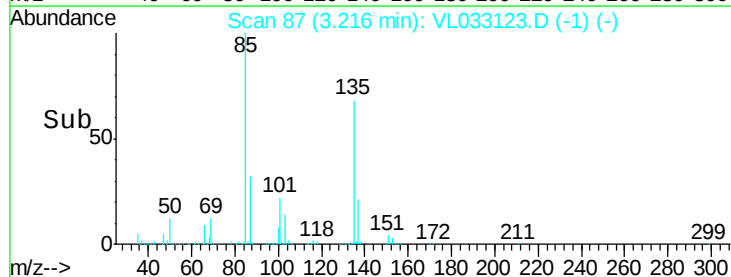
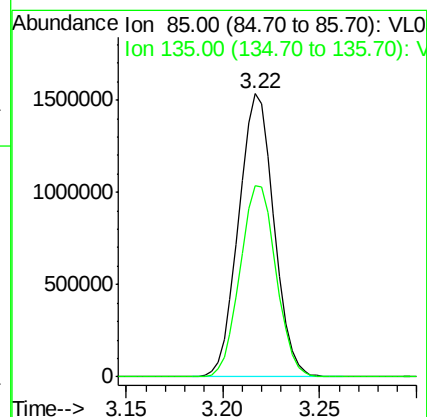
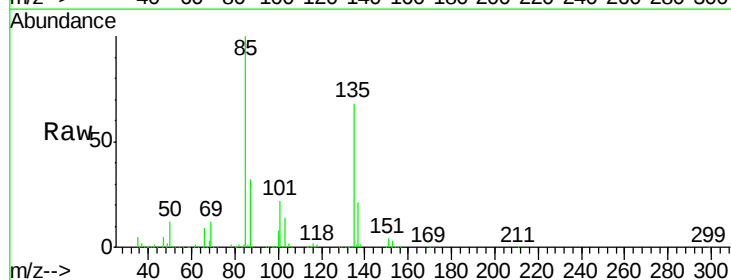
Acq: 28 Jan 2019 23:10

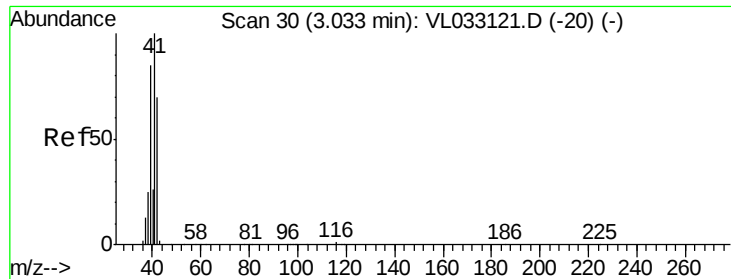
Tgt Ion: 85 Resp: 1944675

Ion Ratio Lower Upper

85 100

135 69.2 54.8 82.2





#9

Propene

Concen: 9.161 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampled :

ICVVL012819

Tot Ion: 41 Resp: 589274

Ion Ratio Lower Upper

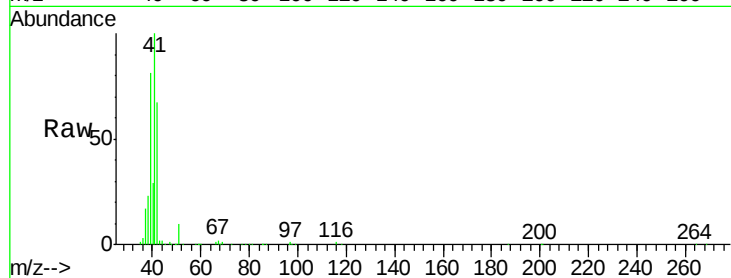
41 100

42 68.9 54.6 82.0

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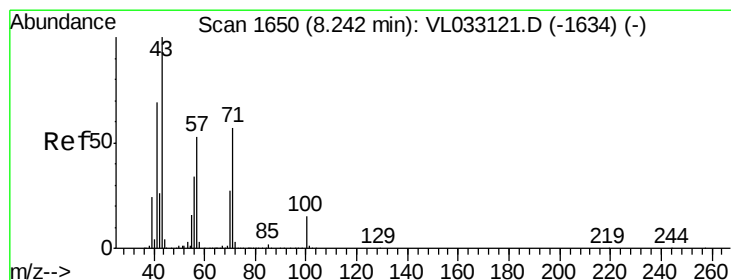
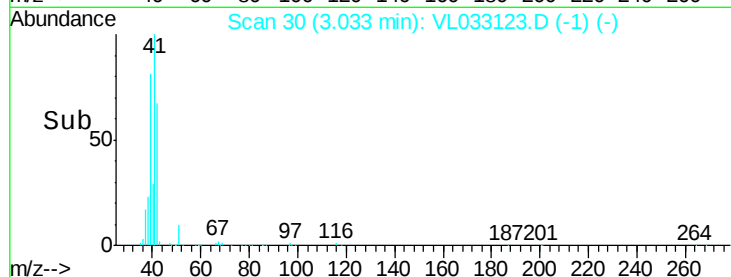
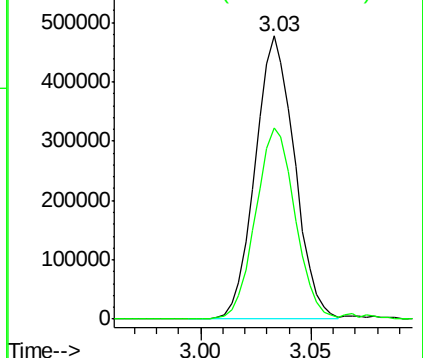
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.398 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033123.D

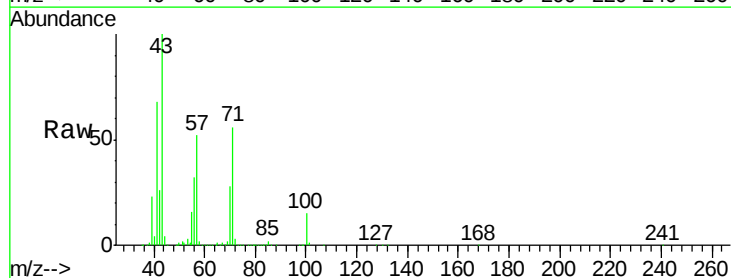
Acq: 28 Jan 2019 23:10

Tgt Ion: 43 Resp: 1466731

Ion Ratio Lower Upper

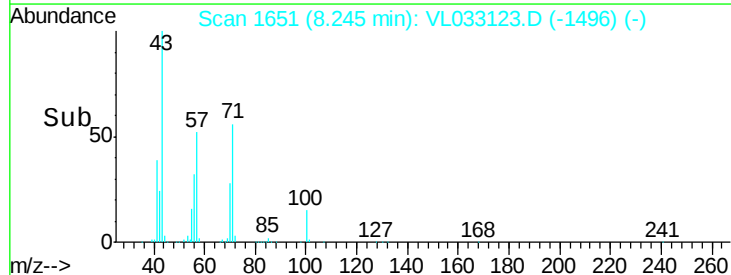
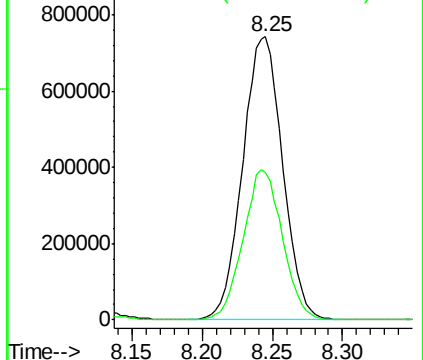
43 100

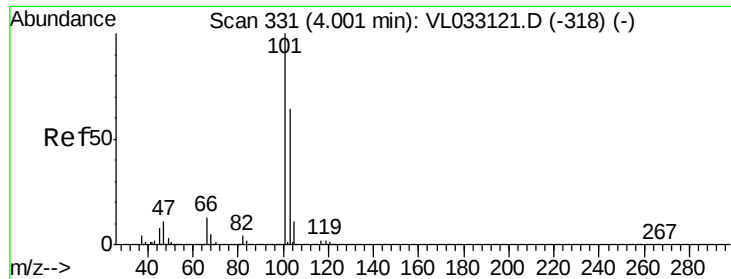
57 52.3 42.2 63.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





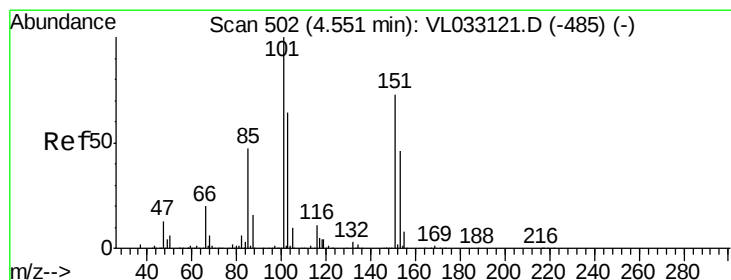
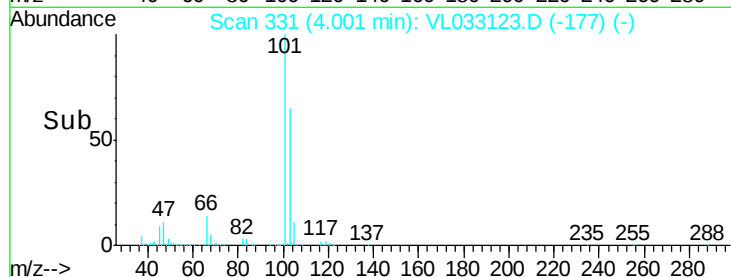
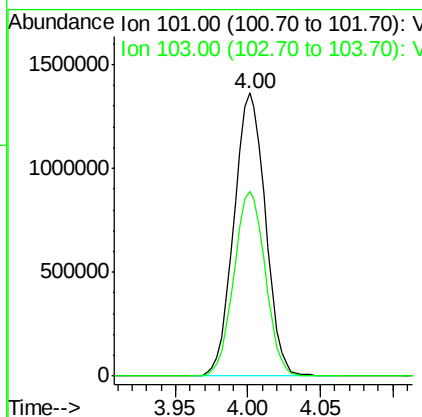
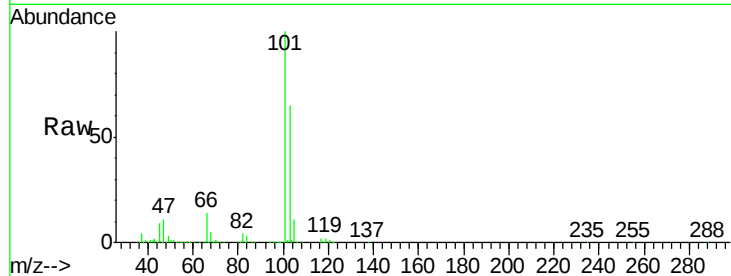
#11
 Trichlorofluoromethane
 Concen: 8.158 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012819

Tot Ion:101 Resp: 2049336
 Ion Ratio Lower Upper
 101 100
 103 65.2 49.4 74.0

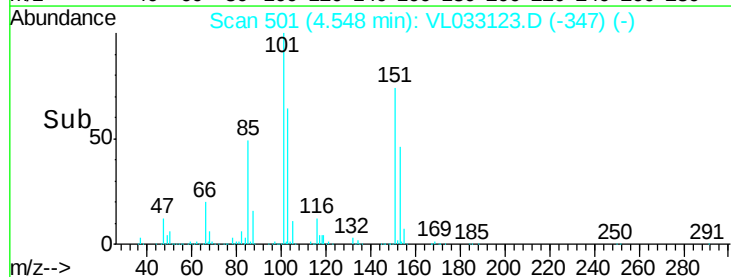
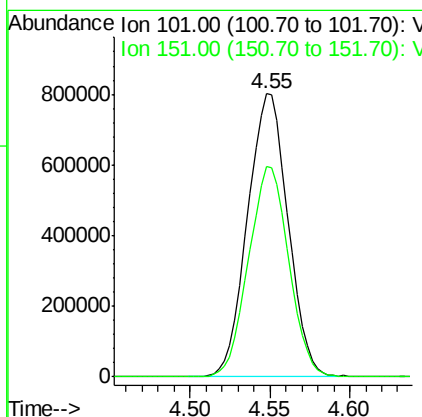
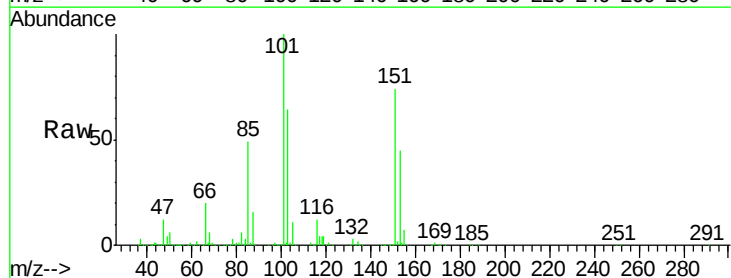
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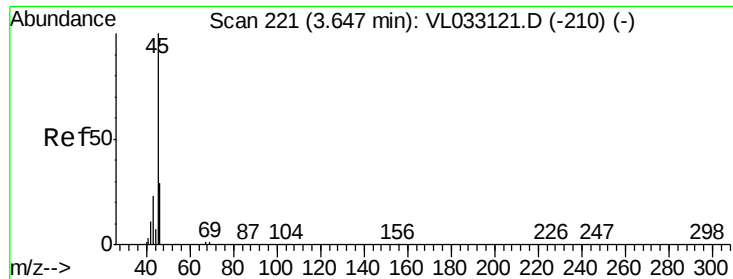
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 7.953 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Tgt Ion:101 Resp: 1386240
 Ion Ratio Lower Upper
 101 100
 151 74.2 57.9 86.9





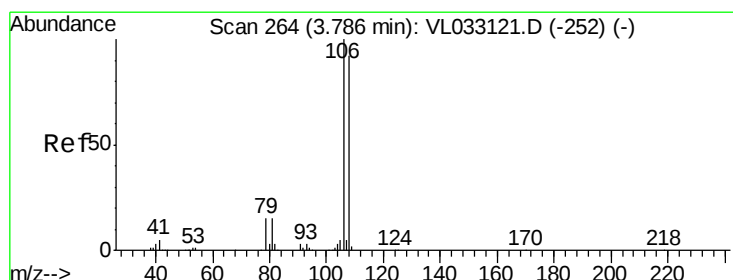
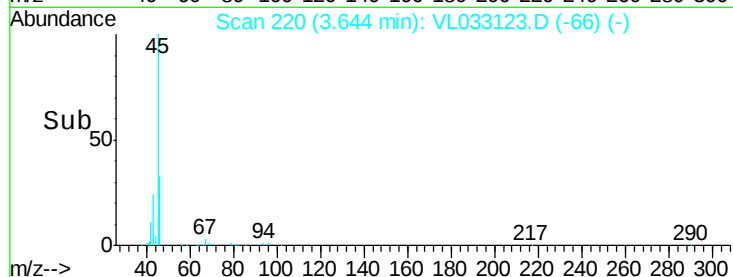
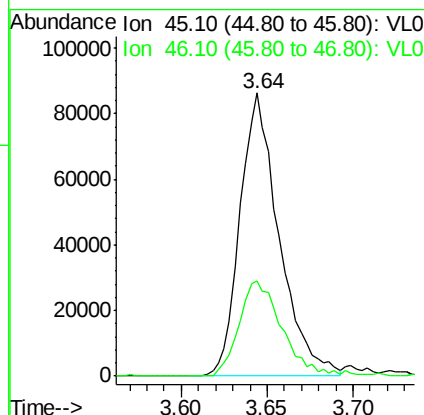
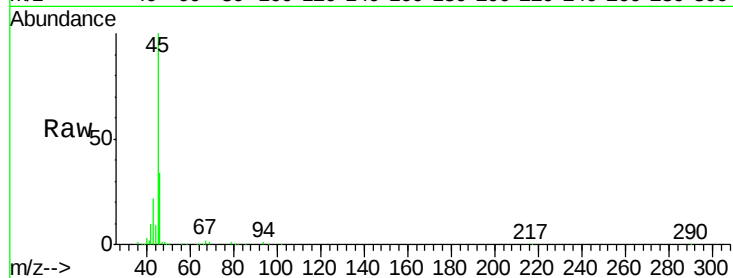
#13
Ethanol
Concen: 5.911 ppbv
RT: 3.64 min Scan# 220
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012819

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.7	15.0	60.2

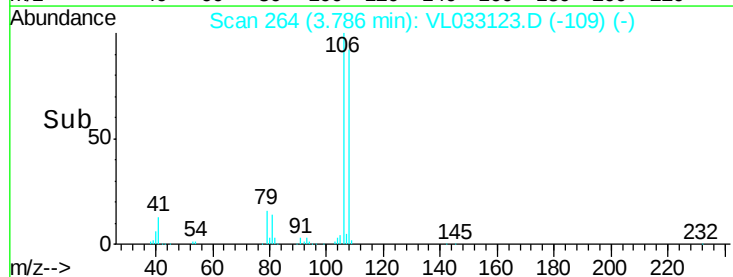
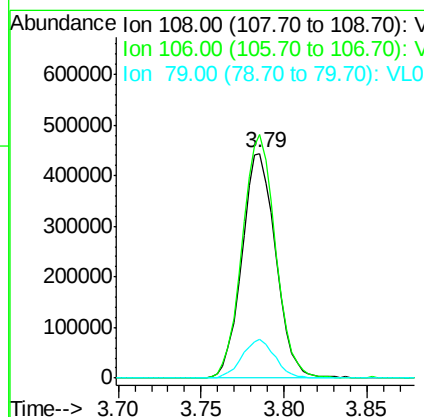
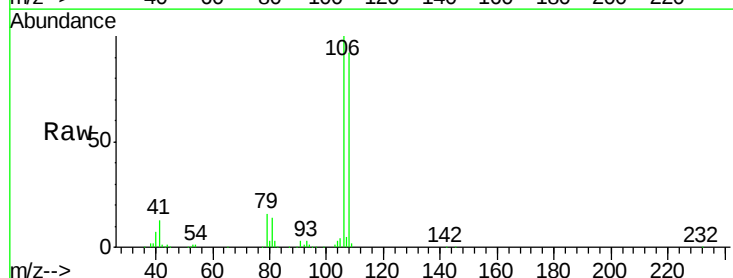
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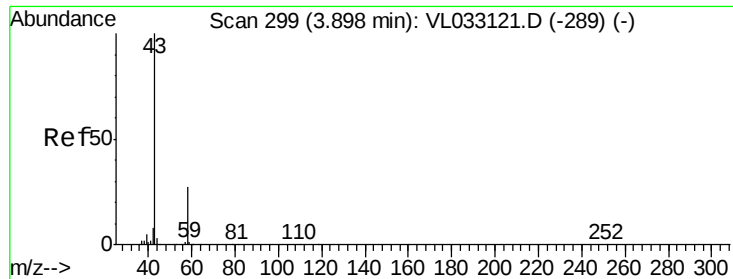
apatel
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#14
Bromoethene
Concen: 8.327 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.5	85.5	128.3
79	17.1	13.8	20.6





#15

Acetone

Concen: 7.768 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 43 Resp: 1305753

Ion Ratio Lower Upper

43 100

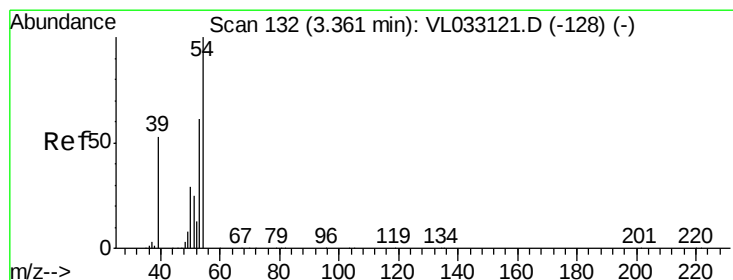
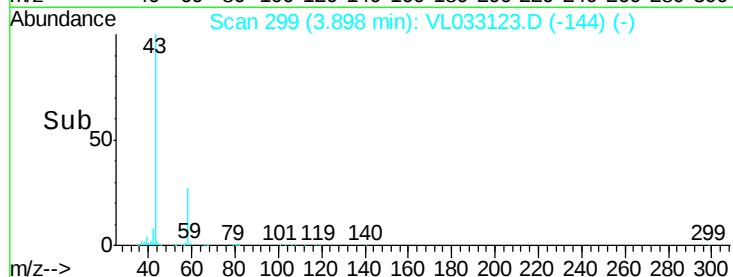
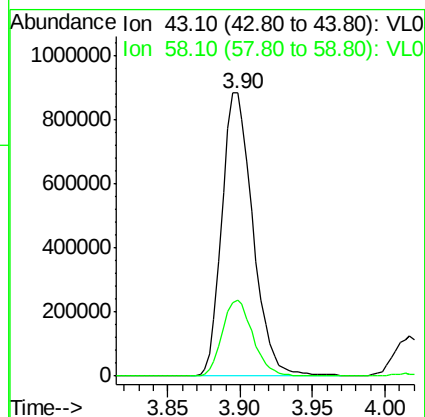
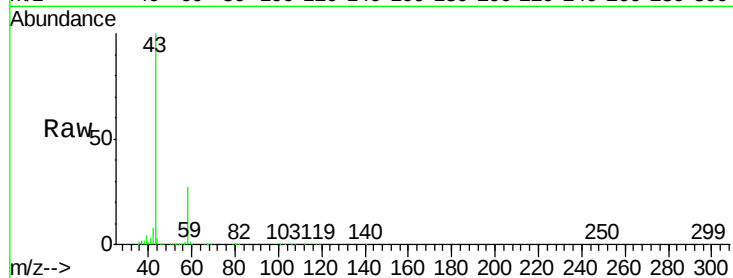
58 26.8 21.1 31.7

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#16

1,3-Butadiene

Concen: 9.064 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033123.D

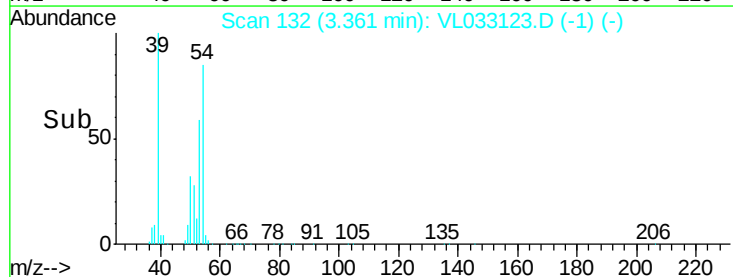
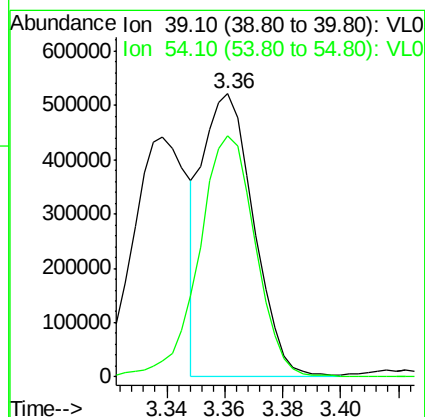
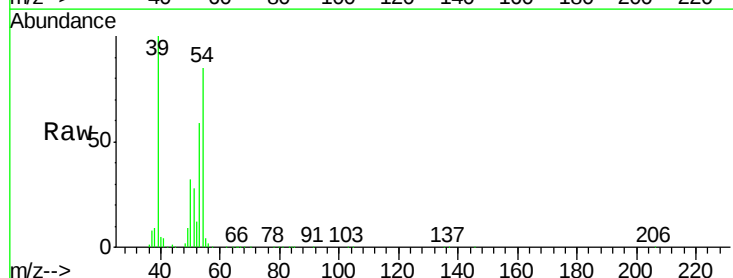
Acq: 28 Jan 2019 23:10

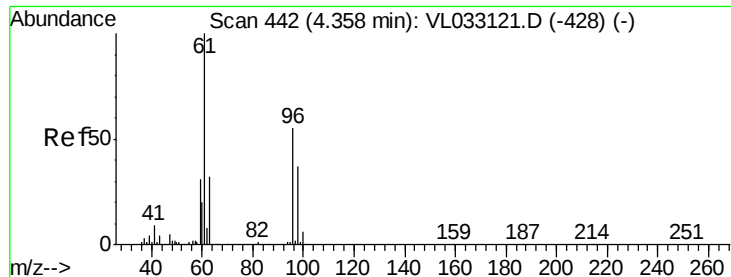
Tgt Ion: 39 Resp: 636835

Ion Ratio Lower Upper

39 100

54 95.1 80.0 120.0





#17

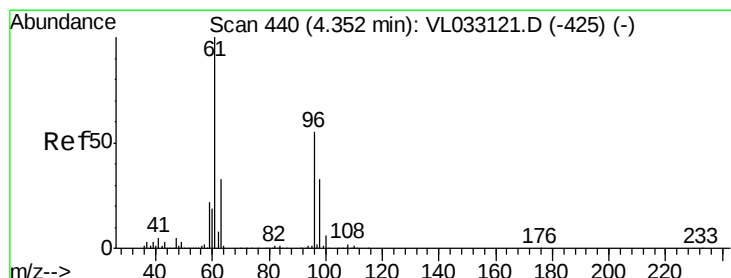
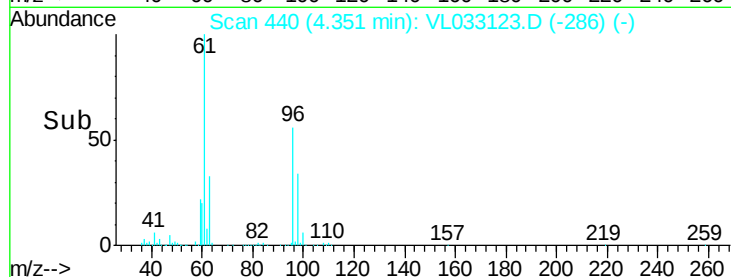
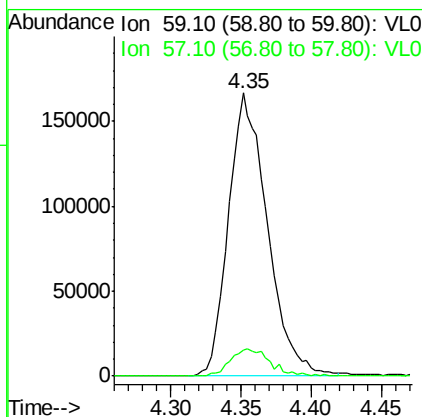
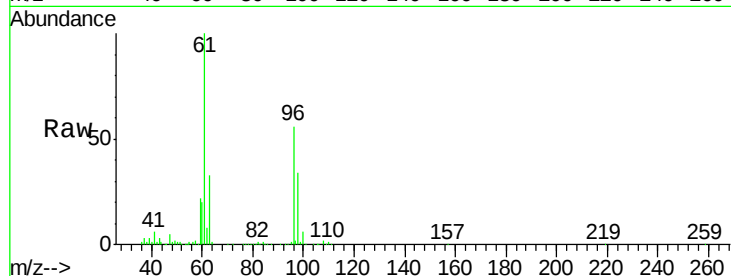
tert-Butyl alcohol
Concen: 8.610 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012819

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.4	11.2

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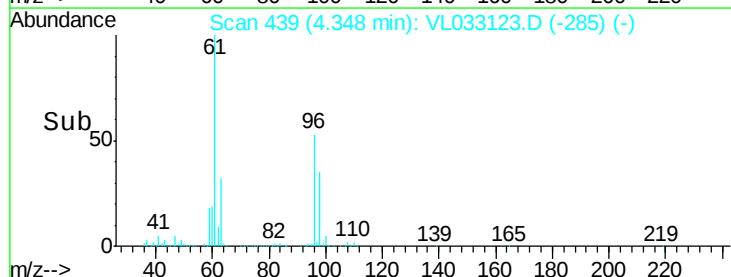
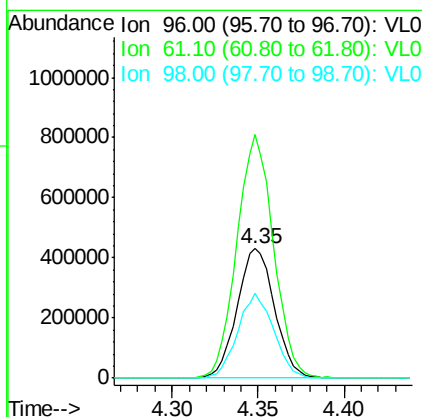
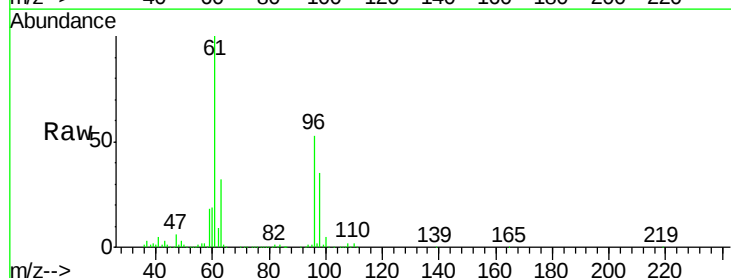
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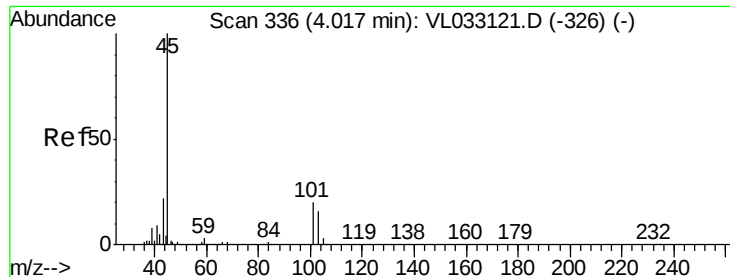


#18

1,1-Dichloroethene
Concen: 8.398 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	187.9	142.6	213.8
98	65.2	51.4	77.0





#19

Isopropyl Alcohol

Concen: 8.072 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 45 Resp: 924019

Ion Ratio Lower Upper

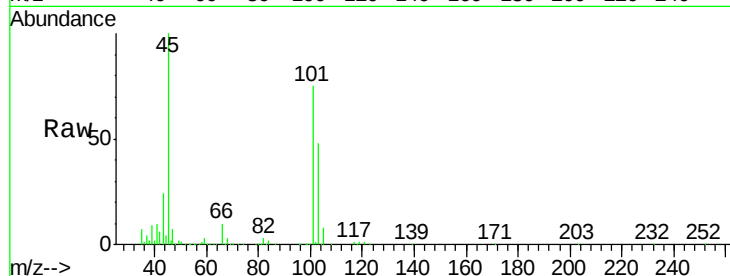
45 100

58 1.7 1.4 2.2

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

500000

400000

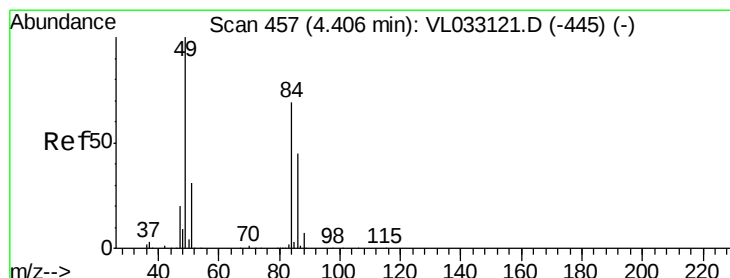
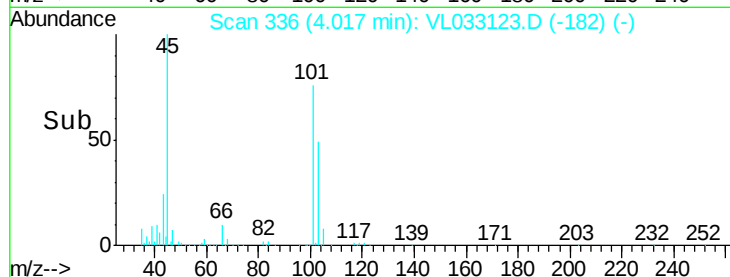
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 7.330 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.01 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Tgt Ion: 84 Resp: 559481

Ion Ratio Lower Upper

84 100

49 137.9 113.8 170.6

51 41.3 34.5 51.7

86 59.8 51.8 77.6

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

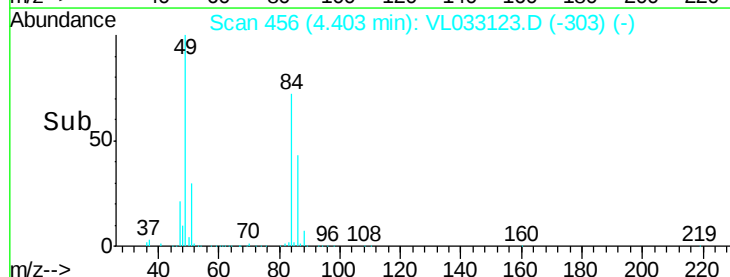
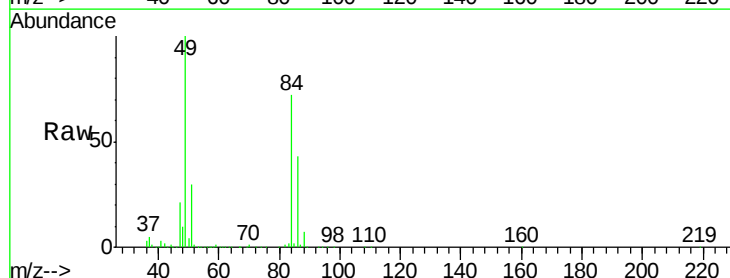
600000

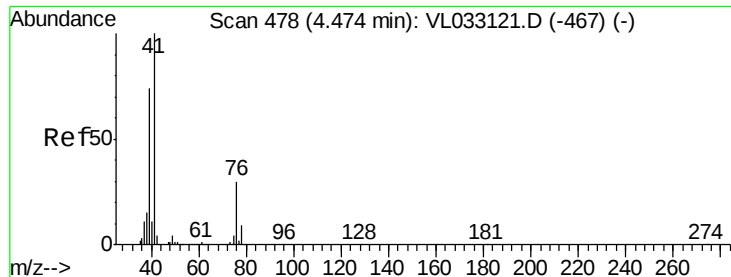
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 8.758 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 41 Resp: 1025679

Ion Ratio Lower Upper

41 100

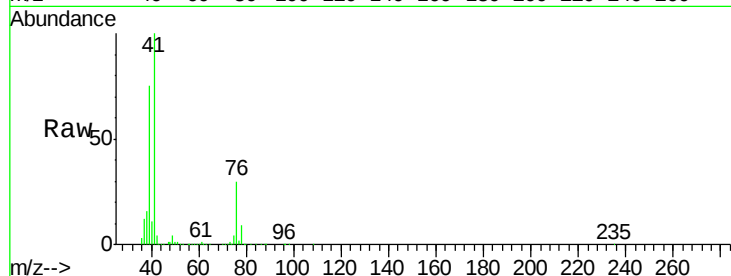
76 30.1 24.6 37.0

39 78.0 63.3 94.9

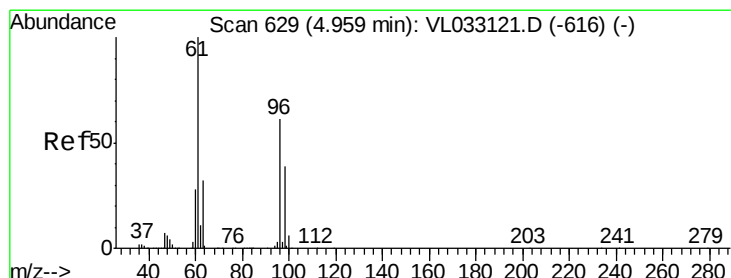
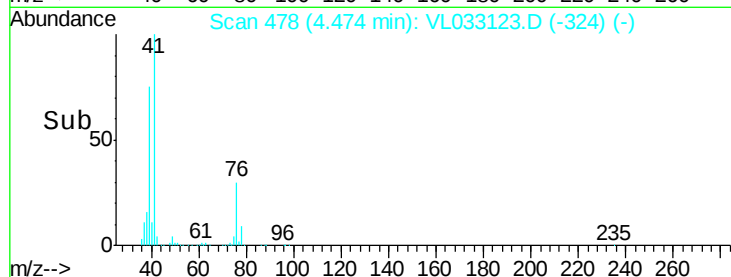
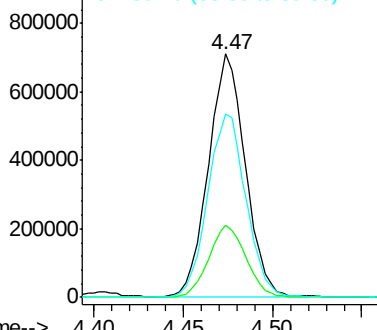
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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 8.325 ppbv

RT: 4.96 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

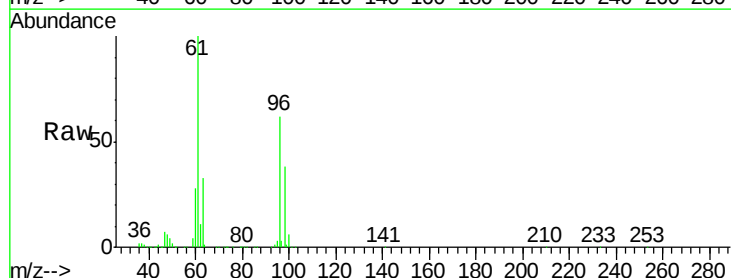
Tgt Ion: 96 Resp: 647046

Ion Ratio Lower Upper

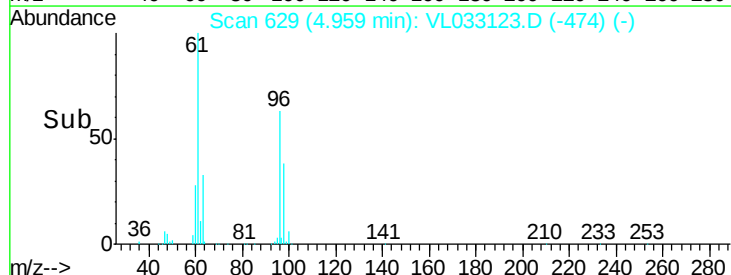
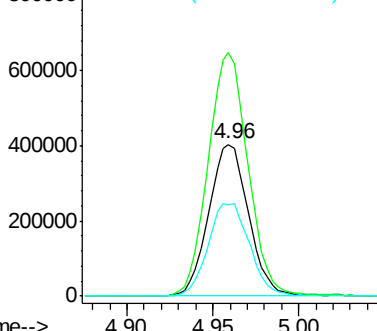
96 100

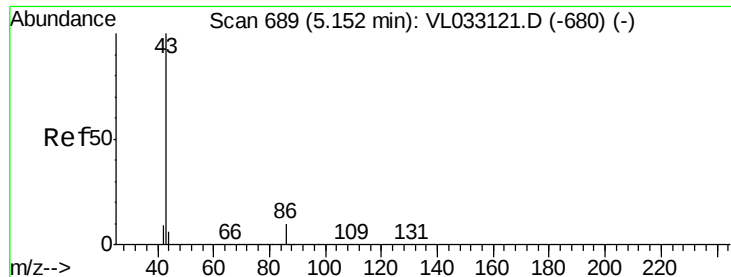
61 160.0 127.6 191.4

98 60.1 48.6 73.0



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





#23

Vinyl Acetate

Concen: 9.135 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 43 Resp: 2171276

Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.7	10.1
42	10.1	8.1	12.1
44	5.4	4.3	6.5

43 100

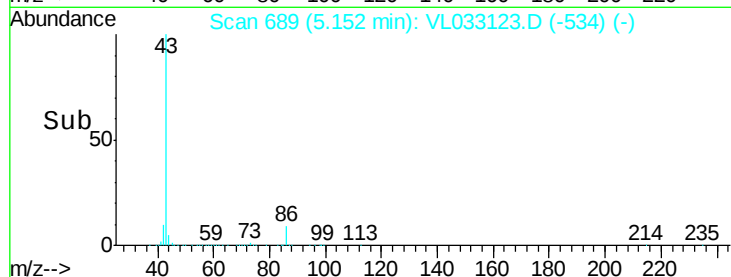
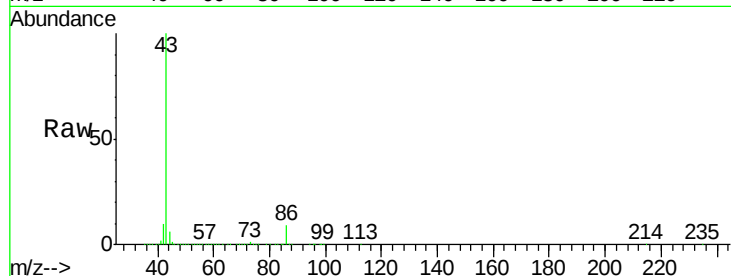
86 8.8 6.7 10.1

42 10.1 8.1 12.1

44 5.4 4.3 6.5

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

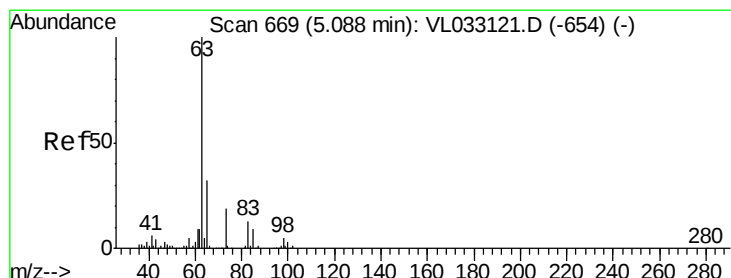
5.15

1000000

500000

0

Time-->



#24

1,1-Dichloroethane

Concen: 8.489 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

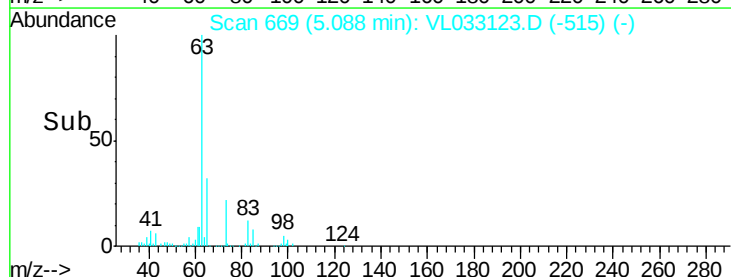
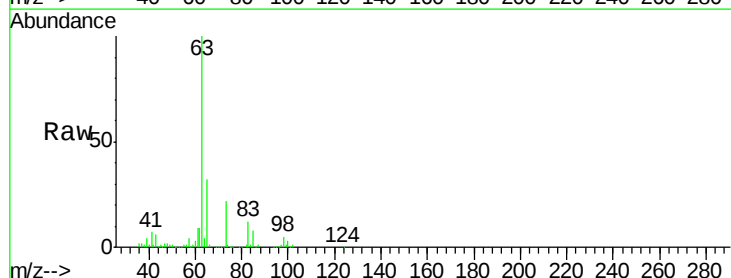
Tgt Ion: 63 Resp: 1634043

Ion	Ratio	Lower	Upper
63	100		
98	5.3	2.5	7.4
100	3.3	1.4	4.2

63 100

98 5.3 2.5 7.4

100 3.3 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

5.09

1200000

1000000

800000

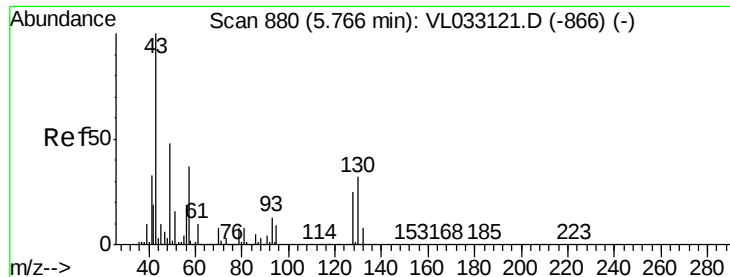
600000

400000

200000

0

Time-->



#25

Ethyl Acetate

Concen: 8.766 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 43 Resp: 2621333

Ion Ratio Lower Upper

43 100

45 9.7 8.0 12.0

61 9.6 7.6 11.4

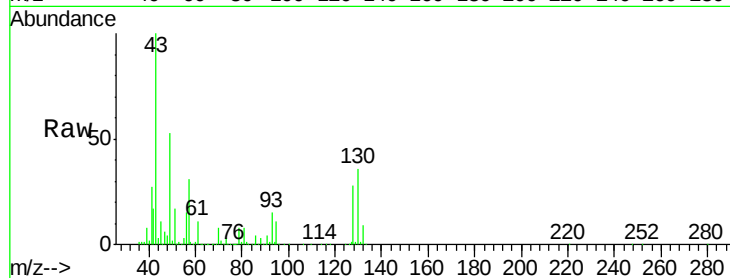
70 7.4 5.9 8.9

Manual Integrations

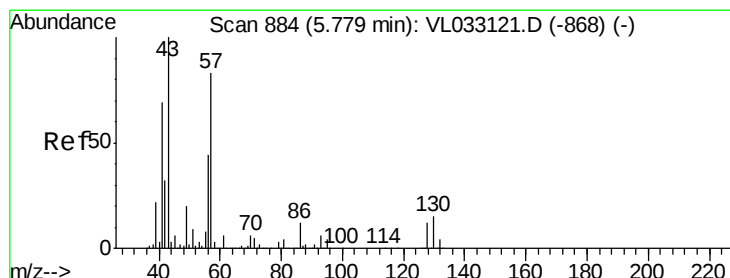
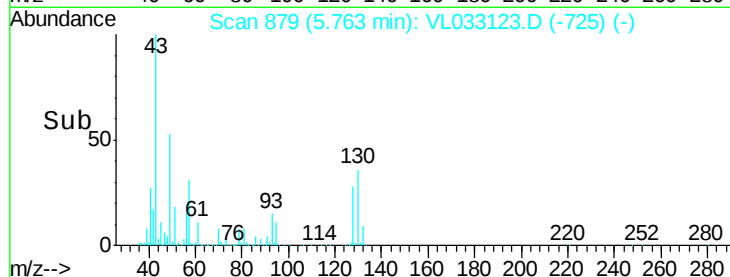
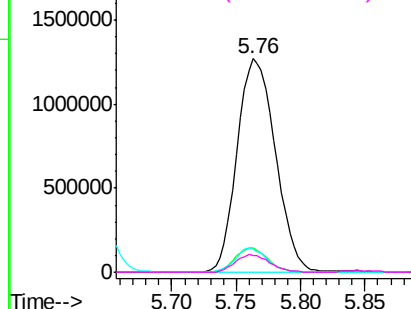
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Abundance Ion 43.10 (42.80 to 43.80): VL0
 2000000
 Ion 45.10 (44.80 to 45.80): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.477 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Tgt Ion: 57 Resp: 1215819

Ion Ratio Lower Upper

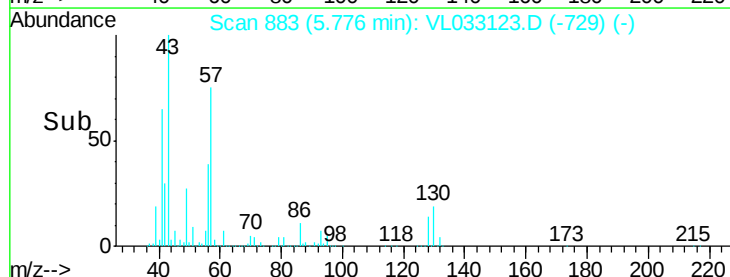
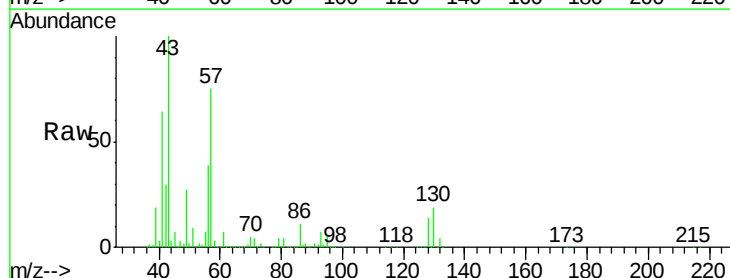
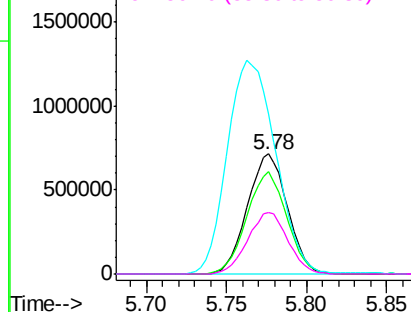
57 100

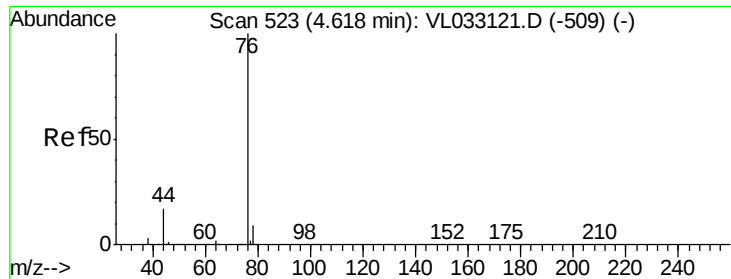
41 86.3 69.9 104.9

43 216.5 169.0 253.4

56 51.8 42.0 63.0

Abundance Ion 57.10 (56.80 to 57.80): VL0
 2000000
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 43.10 (42.80 to 43.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0





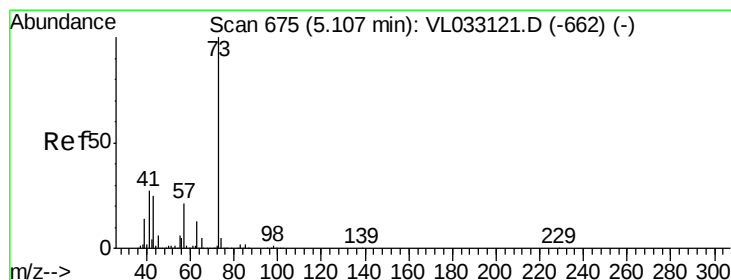
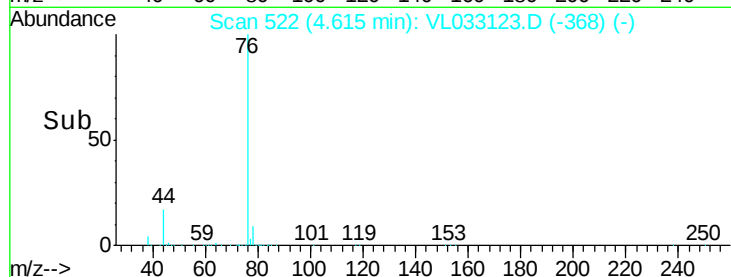
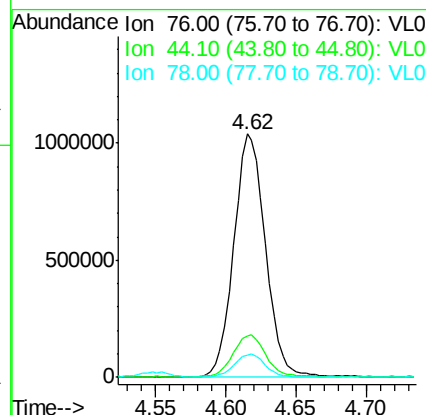
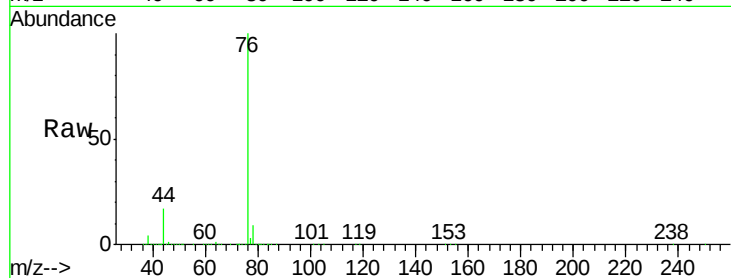
#27
Carbon Disulfide
Concen: 8.731 ppbv
RT: 4.62 min Scan# 522
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012819

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.0	15.0	22.4
78	9.4	7.6	11.4

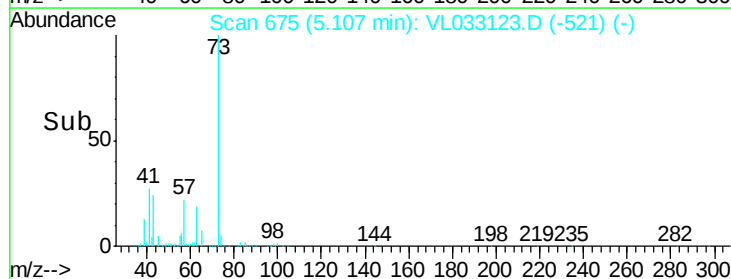
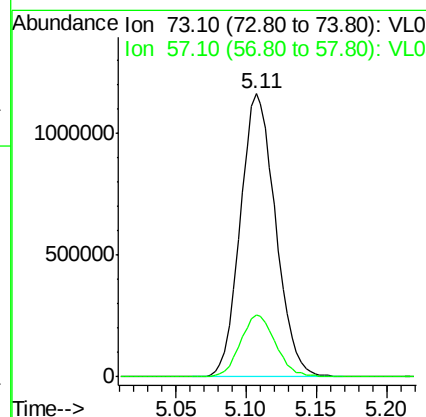
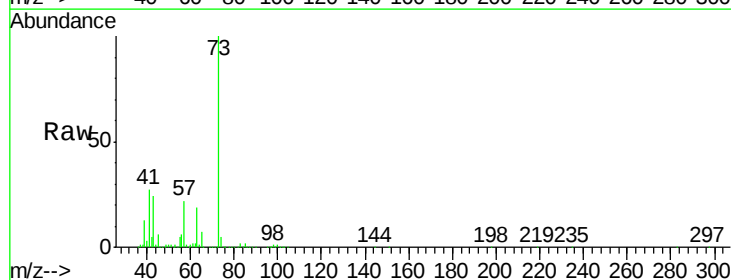
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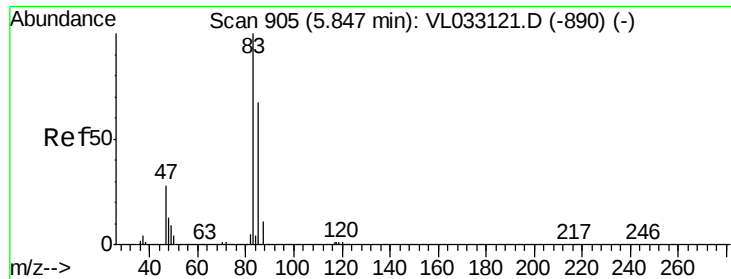
apatel
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#28
Methyl tert-Butyl Ether
Concen: 9.043 ppbv
RT: 5.11 min Scan# 675
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.6	26.4





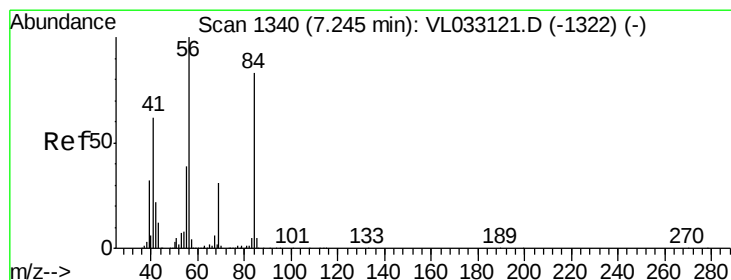
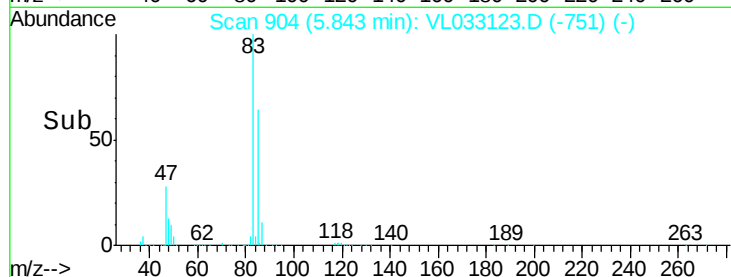
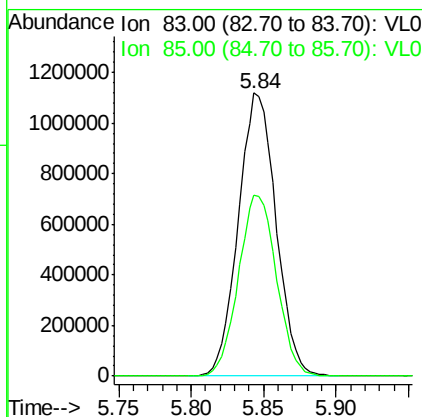
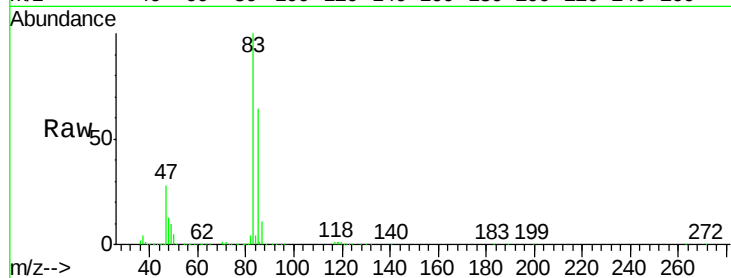
#29
Chloroform
Concen: 8.559 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012819

Tot Ion: 83 Resp: 2022639
Ion Ratio Lower Upper
83 100
85 63.9 50.4 75.6

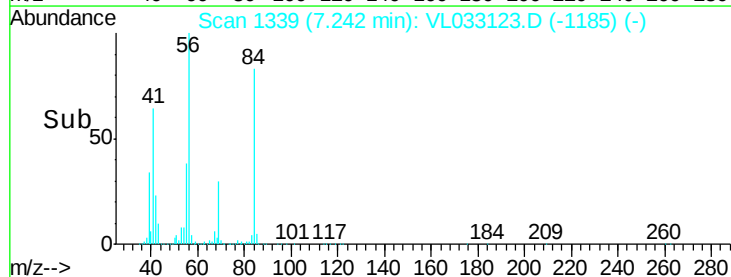
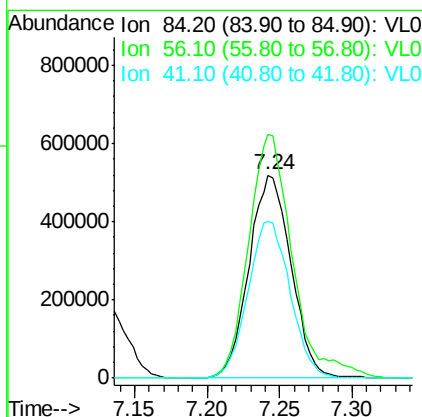
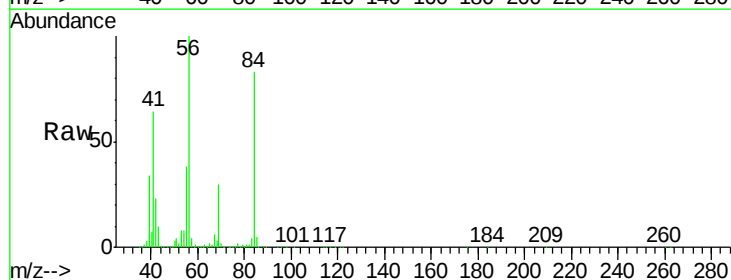
Manual Integrations
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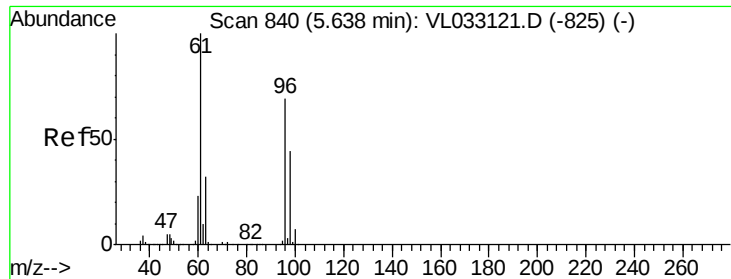
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#30
Cyclohexane
Concen: 9.703 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Tgt Ion: 84 Resp: 1045397
Ion Ratio Lower Upper
84 100
56 125.7 102.4 153.6
41 77.7 62.7 94.1





#31

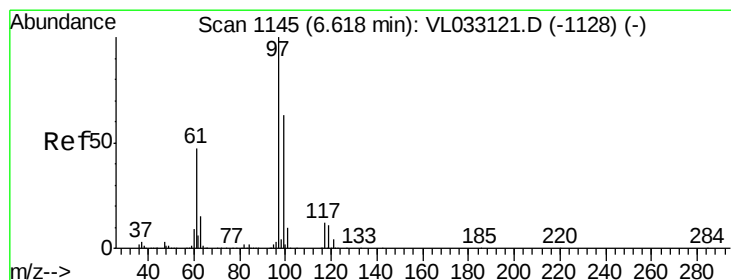
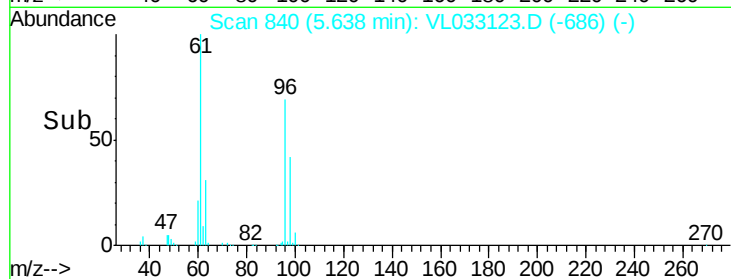
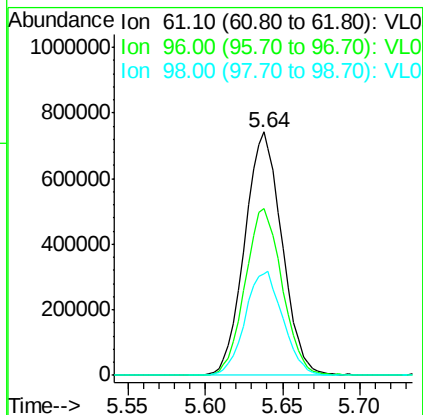
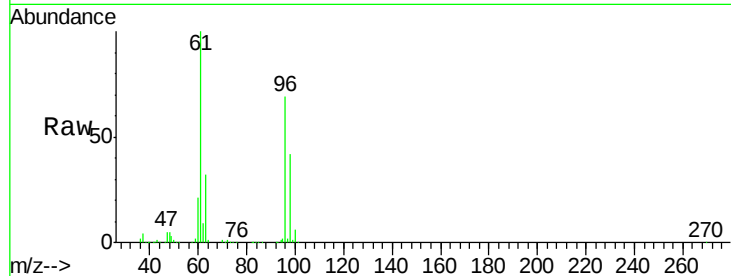
cis-1,2-Dichloroethene
Concen: 9.507 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012819

Tot Ion	Ratio	Lower	Upper
61	100		
96	68.6	57.6	86.4
98	41.7	37.0	55.4

Manual Integrations
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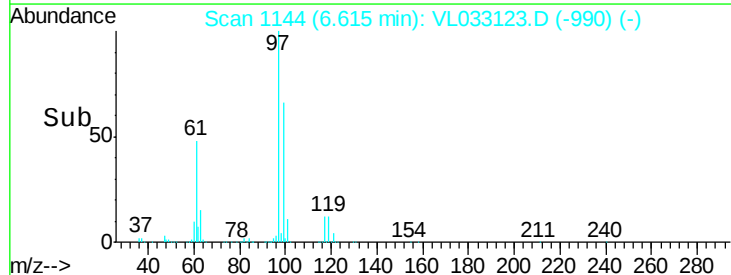
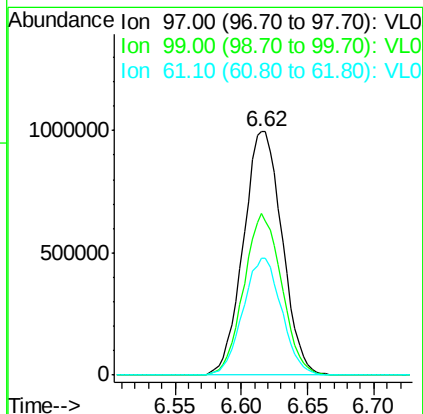
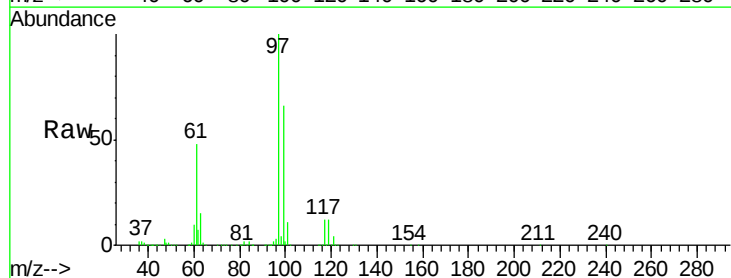
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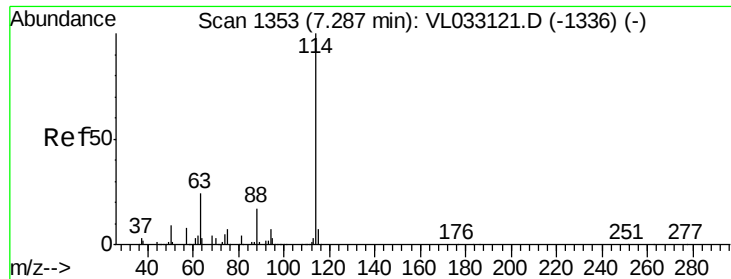


#32

1,1,1-Trichloroethane
Concen: 6.637 ppbv
RT: 6.62 min Scan# 1144
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.7	77.5
61	48.0	38.6	57.8





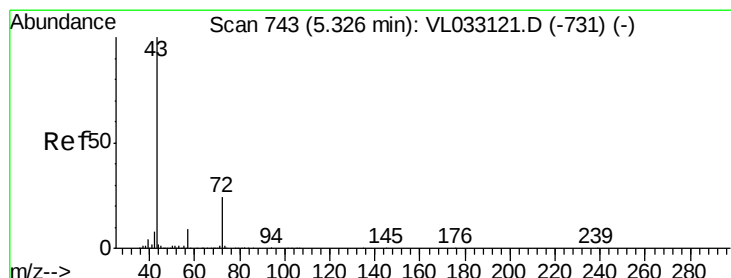
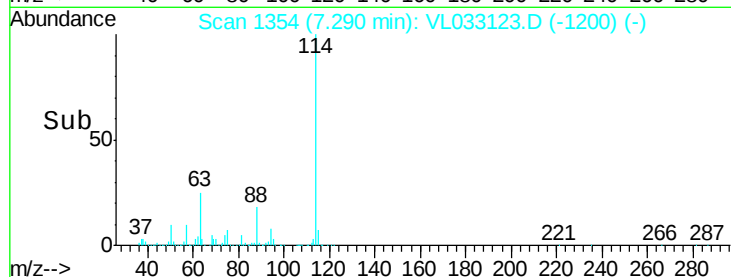
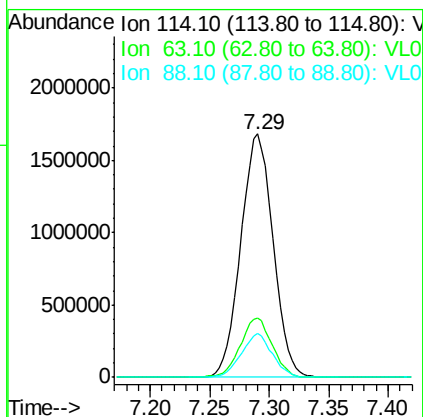
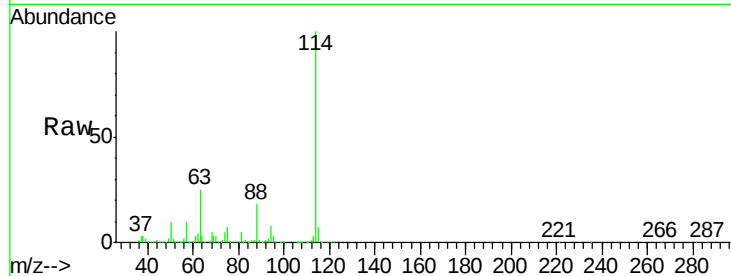
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012819

Tot Ion:114 Resp: 3166772
 Ion Ratio Lower Upper
 114 100
 63 24.2 19.8 29.8
 88 17.3 14.2 21.2

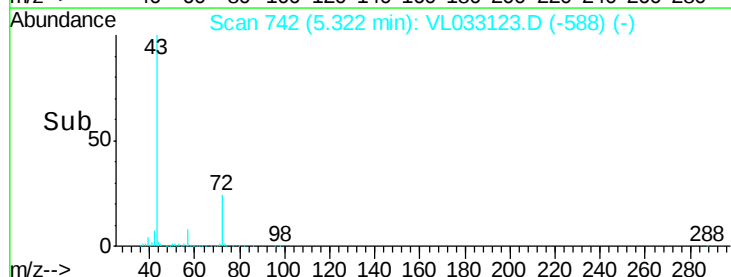
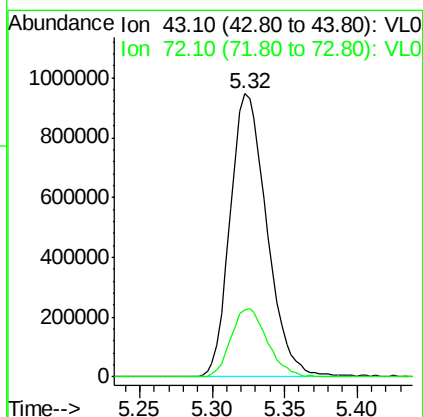
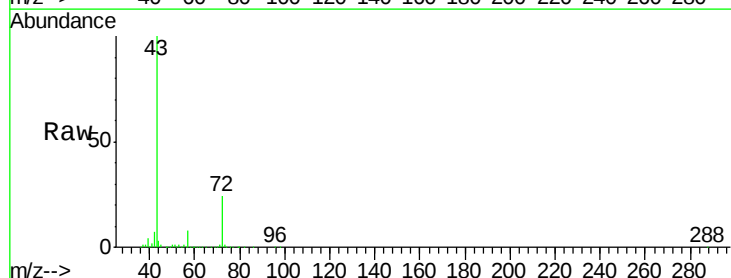
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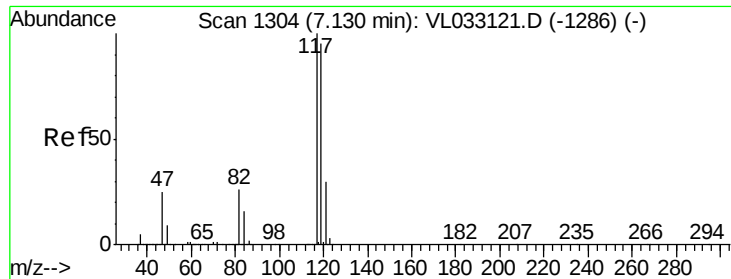
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#34
 2-Butanone
 Concen: 9.231 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Tgt Ion: 43 Resp: 1658858
 Ion Ratio Lower Upper
 43 100
 72 24.0 18.7 28.1





#35

Carbon Tetrachloride

Concen: 7.662 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion:117 Resp: 2221478

Ion Ratio Lower Upper

117 100

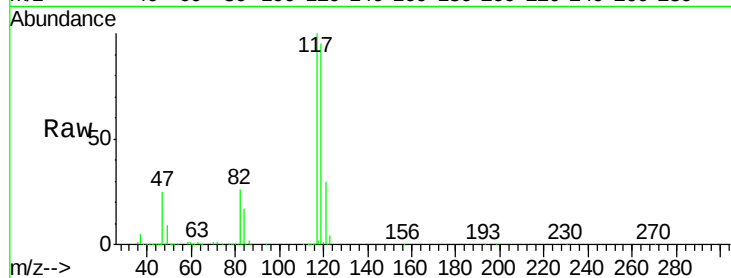
119 95.1 75.8 113.6

121 30.2 24.6 36.8

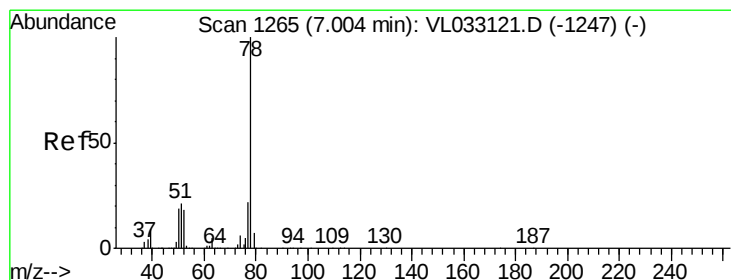
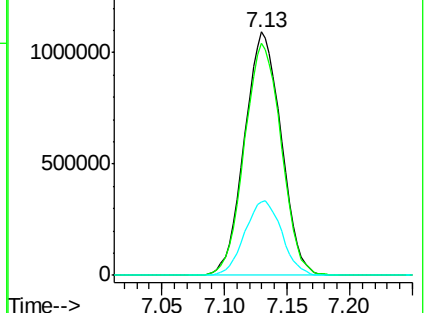
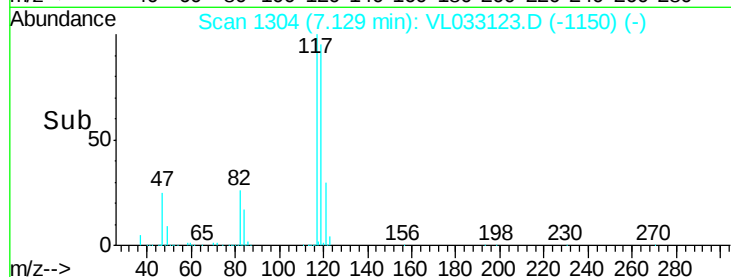
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Abundance Ion 117.00 (116.70 to 117.70): V
1500000
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.791 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

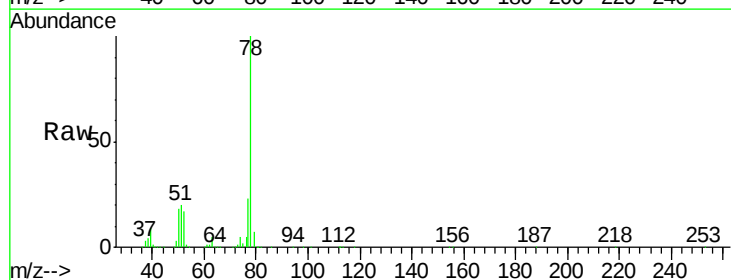
Tgt Ion: 78 Resp: 2456862

Ion Ratio Lower Upper

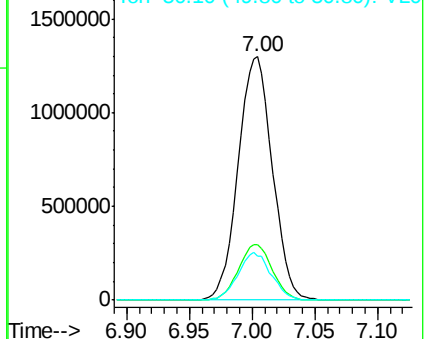
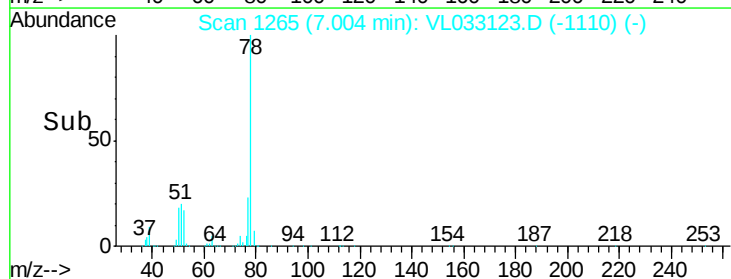
78 100

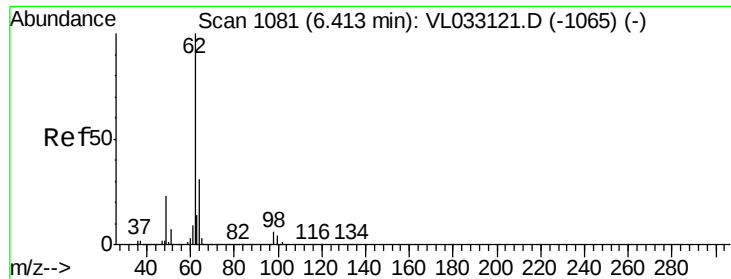
77 22.7 18.5 27.7

50 18.3 15.4 23.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
1500000
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





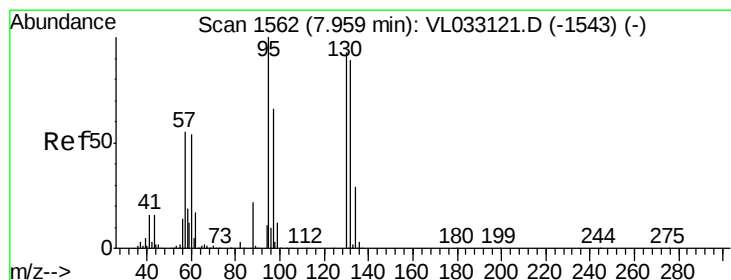
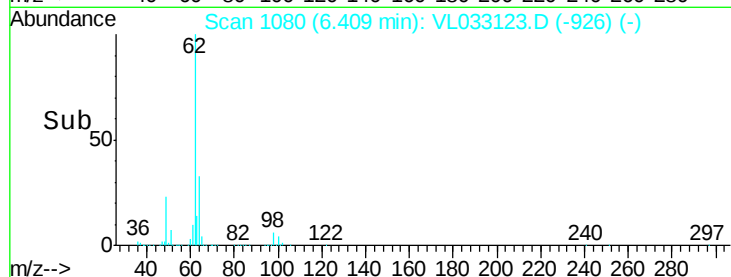
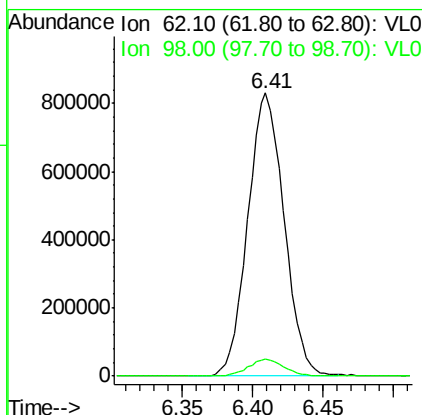
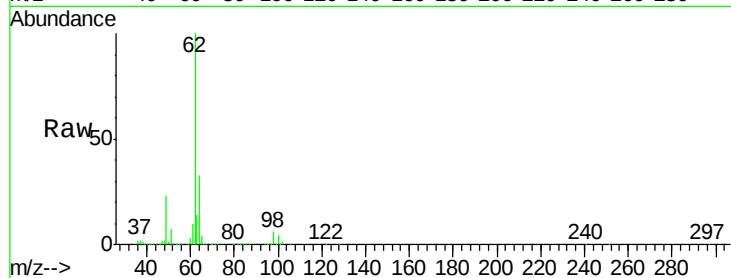
#37
 1,2-Dichloroethane
 Concen: 8.121 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012819

Tot Ion: 62 Resp: 1495413
 Ion Ratio Lower Upper
 62 100
 98 6.0 4.6 7.0

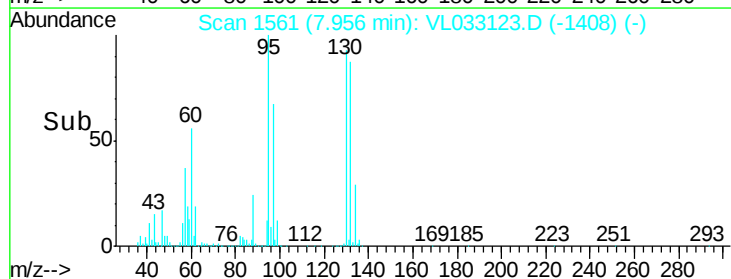
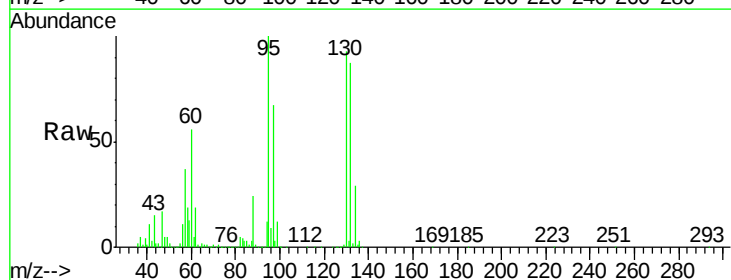
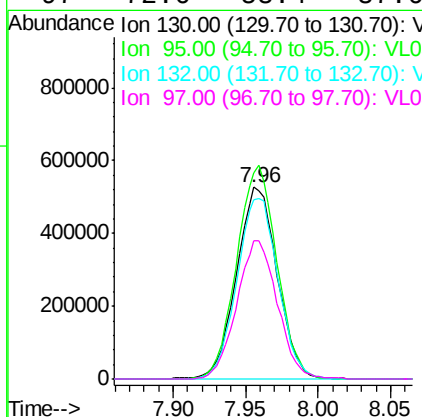
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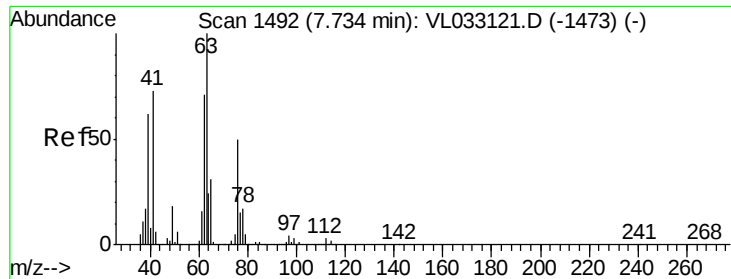
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#38
 Trichloroethene
 Concen: 8.946 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Tgt Ion:130 Resp: 1016093
 Ion Ratio Lower Upper
 130 100
 95 108.0 94.0 141.0
 132 93.5 79.7 119.5
 97 72.6 58.4 87.6





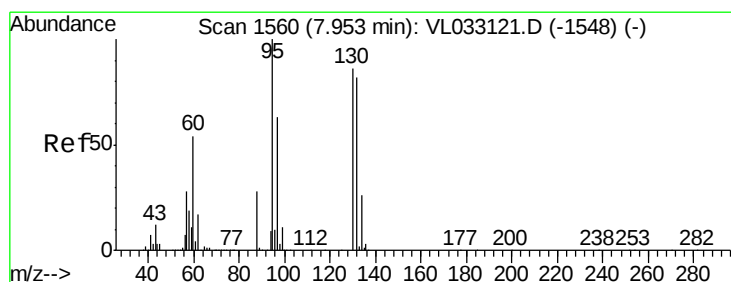
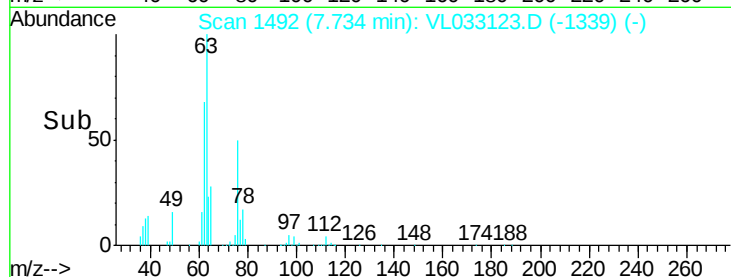
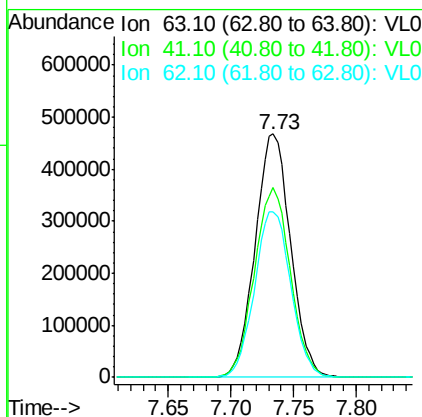
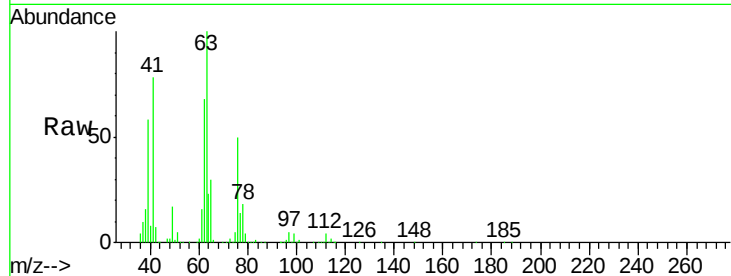
#39
 1,2-Dichloropropane
 Concen: 9.330 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012819

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.9	57.8	86.8
62	67.9	54.6	82.0

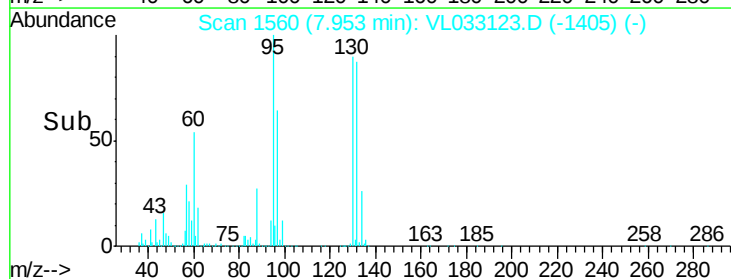
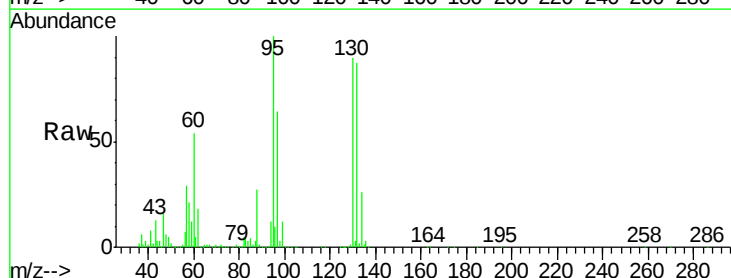
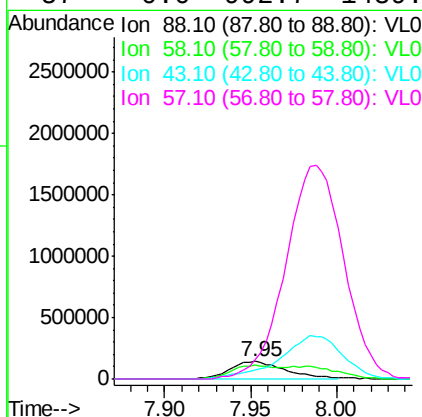
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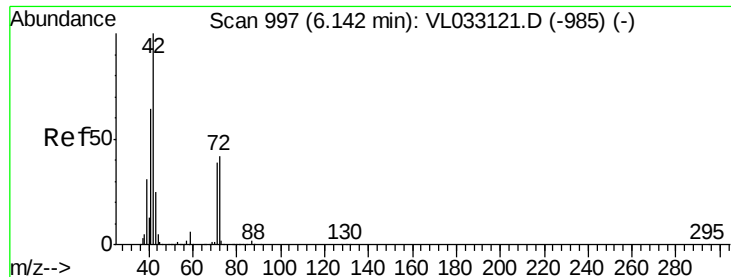
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#40
 1,4-Dioxane
 Concen: 8.506 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.6	103.5	155.3
43	0.0	217.8	326.8#
57	0.0	992.7	1489.1#





#41

Tetrahydrofuran

Concen: 9.335 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

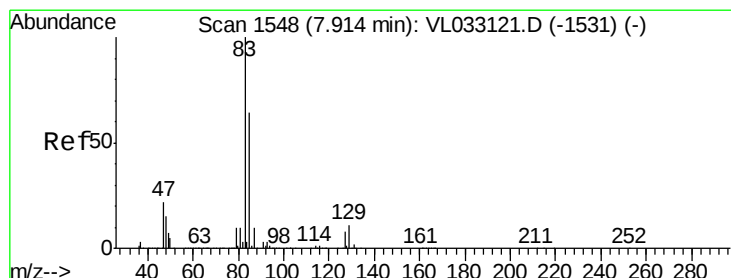
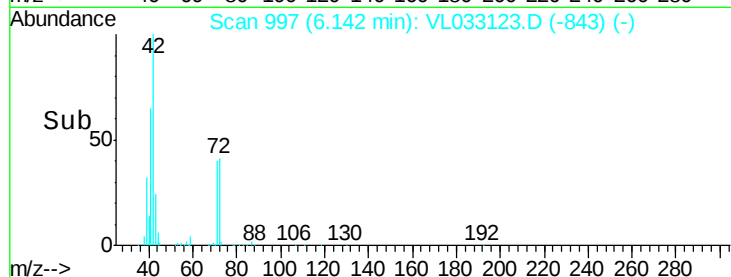
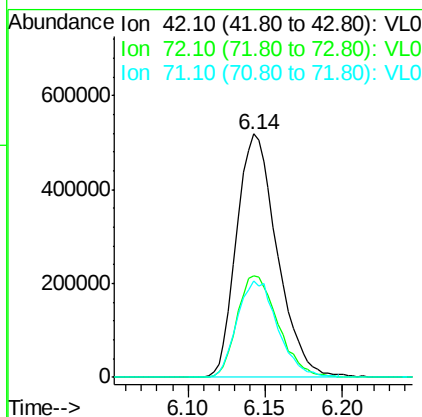
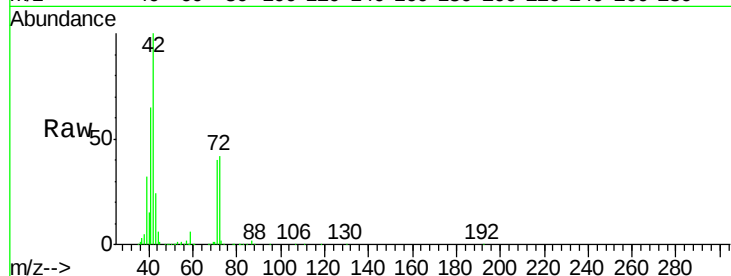
ClientSampleId :

ICVVL012819

Tot Ion:	42	Resp:	944134
Ion	Ratio	Lower	Upper
42	100		
72	42.2	33.8	50.8
71	40.0	31.6	47.4

Manual Integrations
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#42

Bromodichloromethane

Concen: 8.884 ppbv

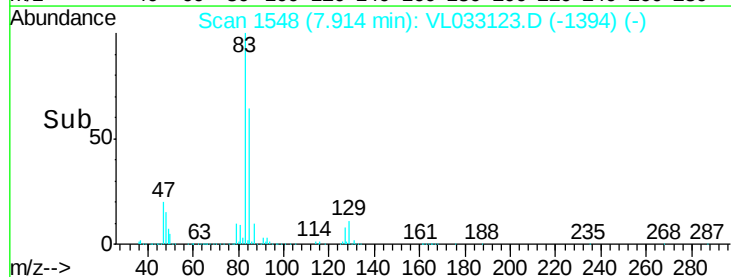
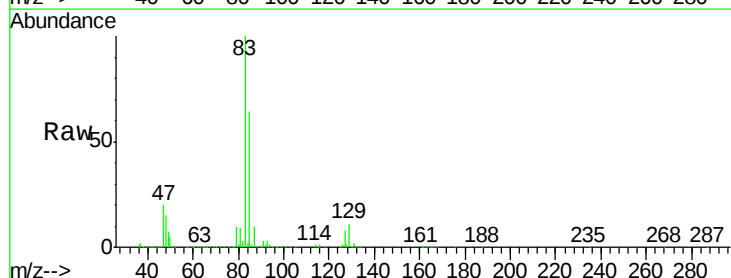
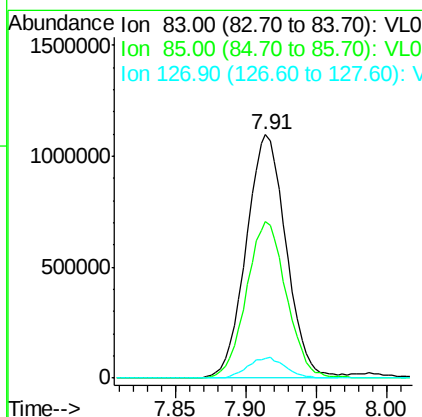
RT: 7.91 min Scan# 1548

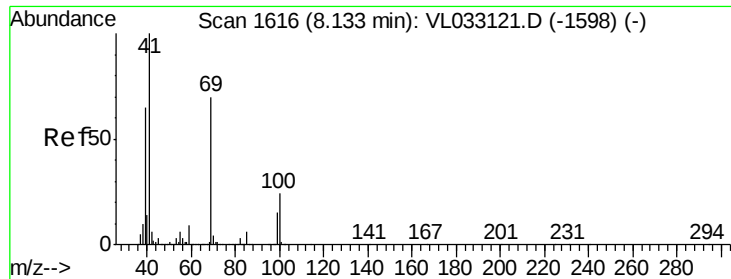
Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Tgt Ion:	83	Resp:	2169659
Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.9	79.3
127	8.1	6.7	10.1





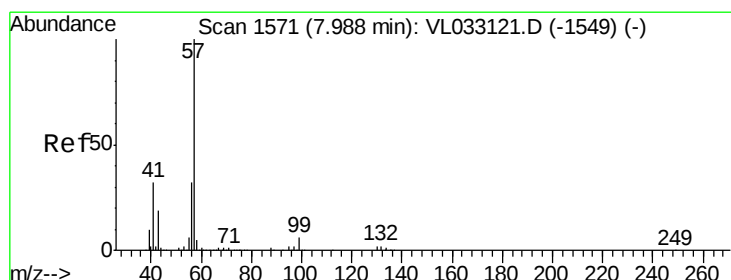
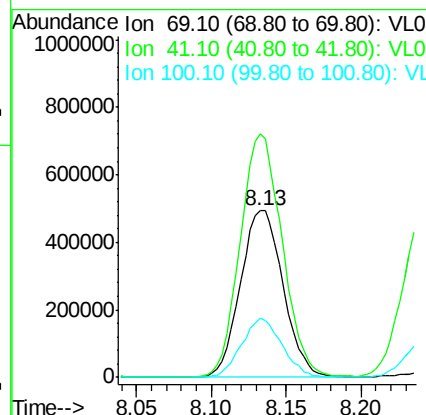
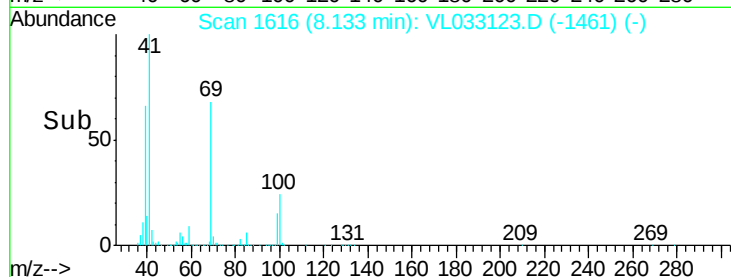
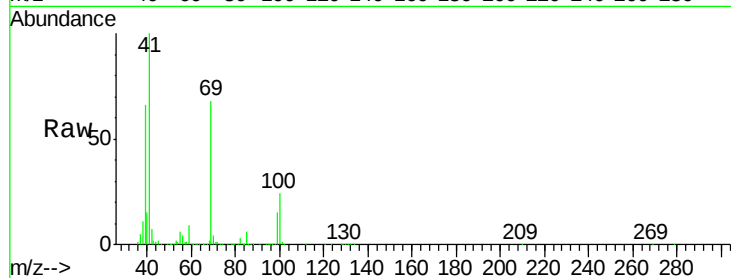
#43
Methvl Methacrilate
Concen: 10.032 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012819

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	143.1	113.9	170.9	
100	33.6	26.2	39.4	

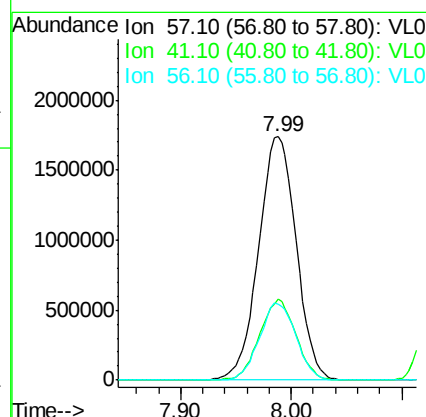
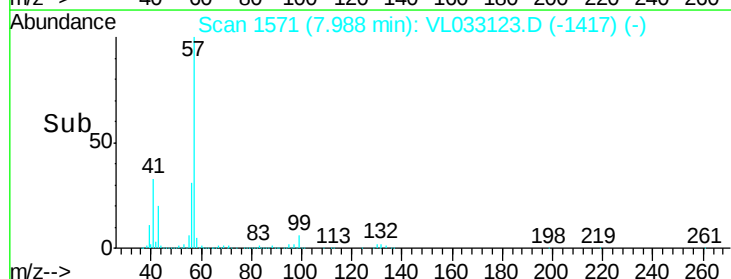
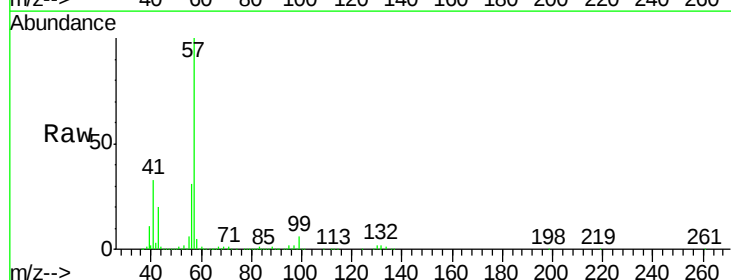
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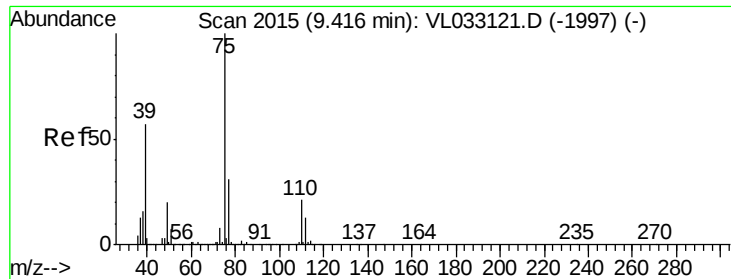
apatel
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#44
2,2,4-Trimethylpentane
Concen: 9.297 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	31.9	26.1	39.1	
56	30.8	25.0	37.4	





#45

t-1,3-Dichloropropene

Concen: 11.293 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 75 Resp: 1354609

Ion Ratio Lower Upper

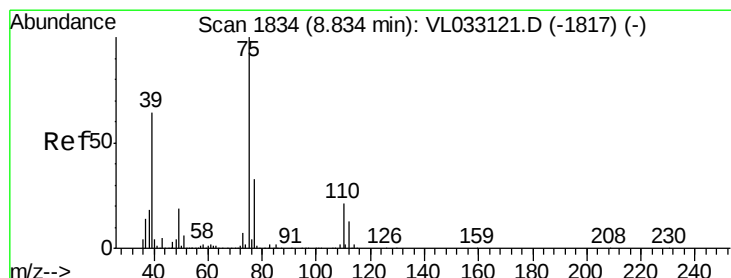
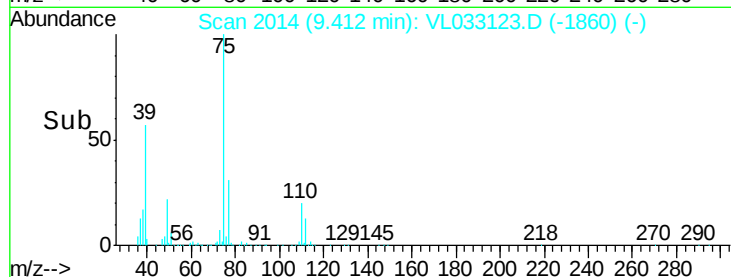
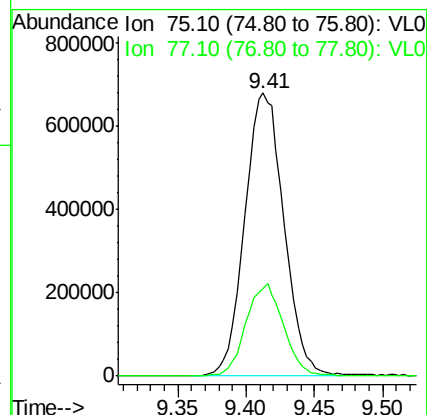
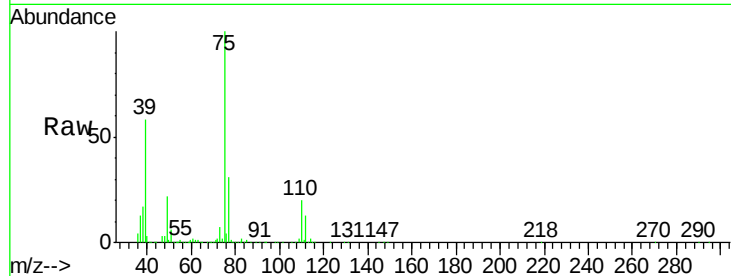
75 100

77 31.0 24.9 37.3

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#46

cis-1,3-Dichloropropene

Concen: 10.864 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

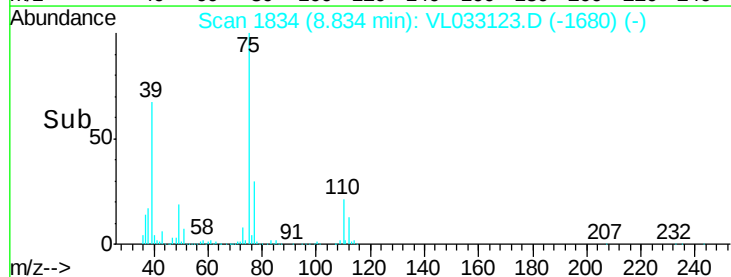
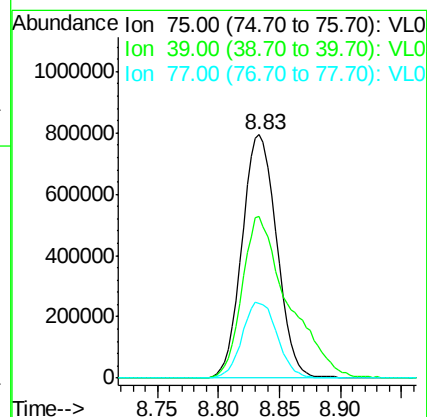
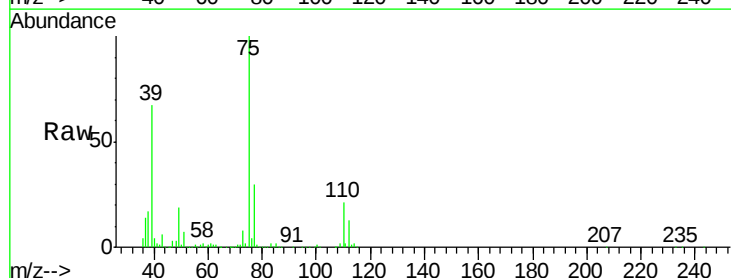
Tgt Ion: 75 Resp: 1557789

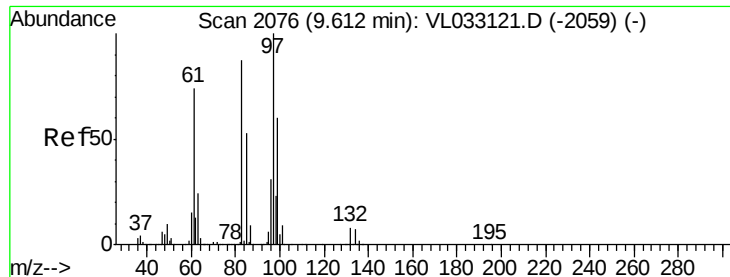
Ion Ratio Lower Upper

75 100

39 66.6 52.0 78.0

77 30.4 25.5 38.3





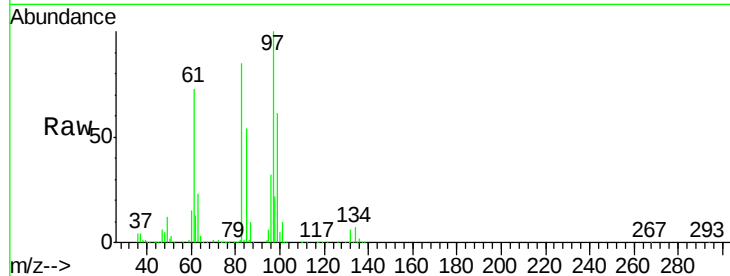
#47
 1,1,2-Trichloroethane
 Concen: 9.024 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012819

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.8	71.4	107.2
85	53.9	47.2	70.8
99	61.2	50.3	75.5

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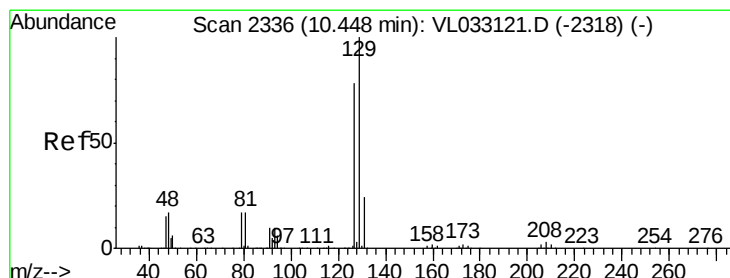
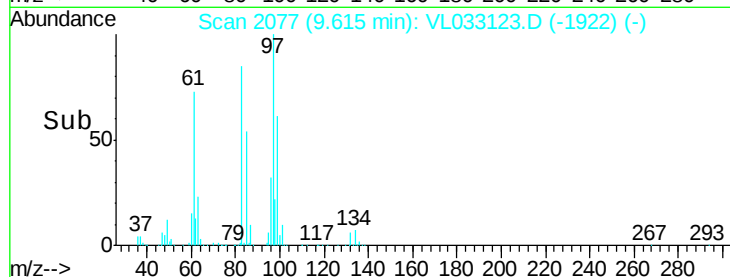
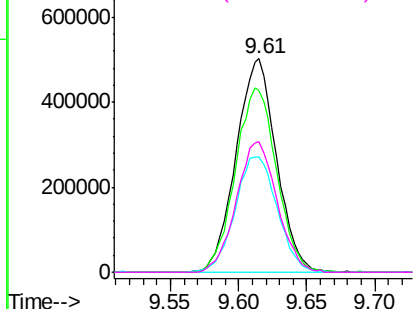
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

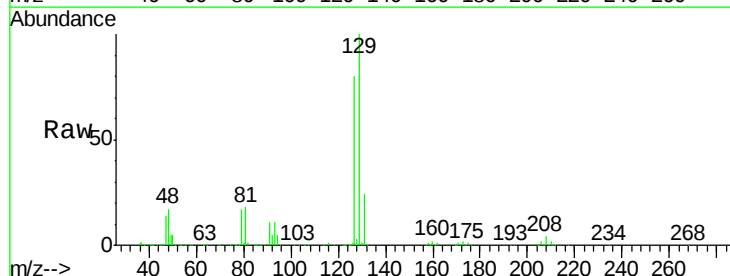
Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 9.497 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

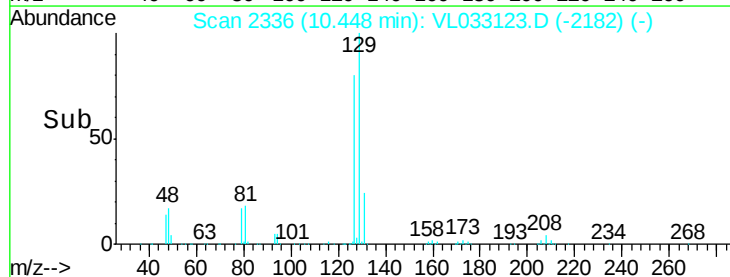
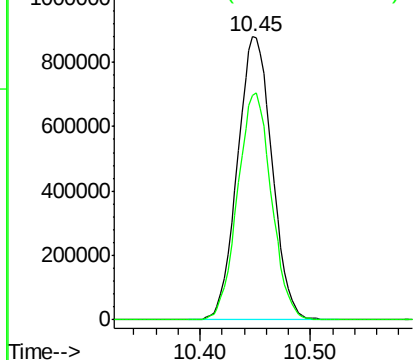
Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.3	117.9

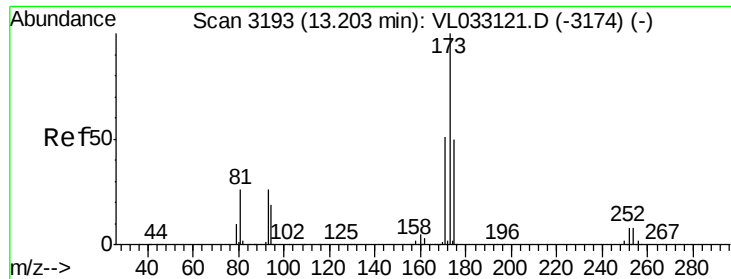


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.644 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion:173 Resp: 1622500

Ion Ratio Lower Upper

173 100

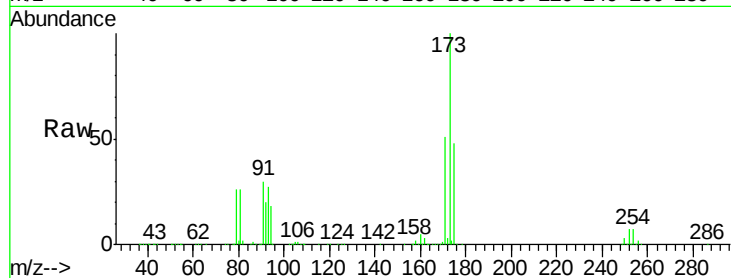
175 48.5 38.9 58.3

171 51.9 41.8 62.6

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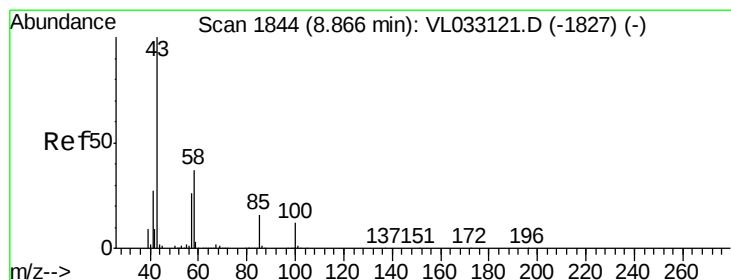
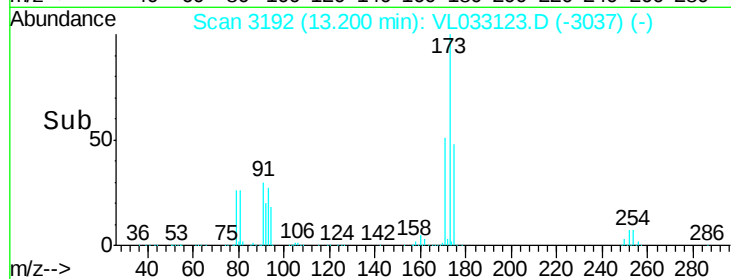
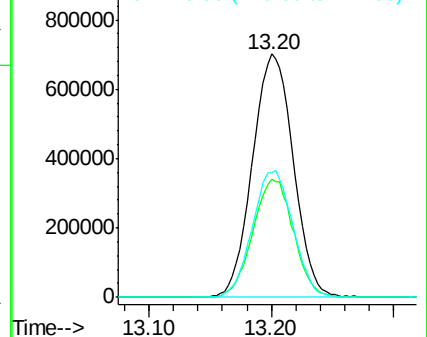
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.660 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VL033123.D

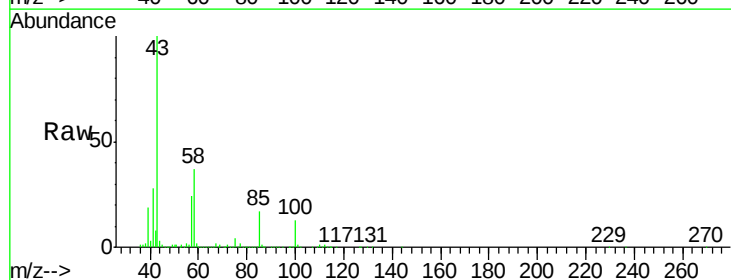
Acq: 28 Jan 2019 23:10

Tgt Ion: 43 Resp: 2317183

Ion Ratio Lower Upper

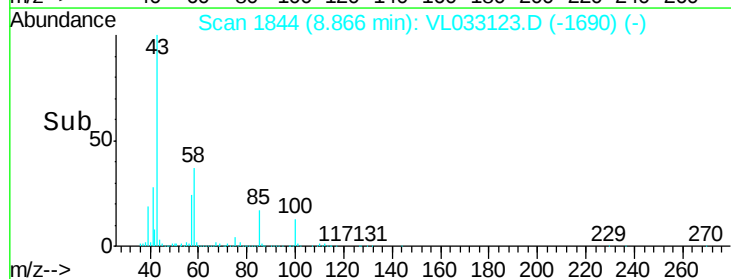
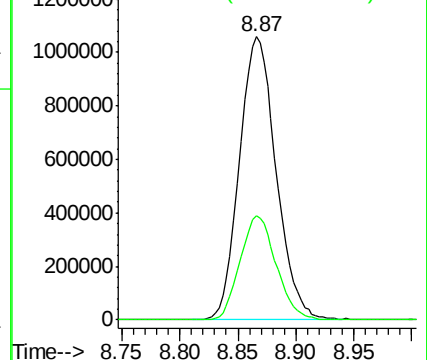
43 100

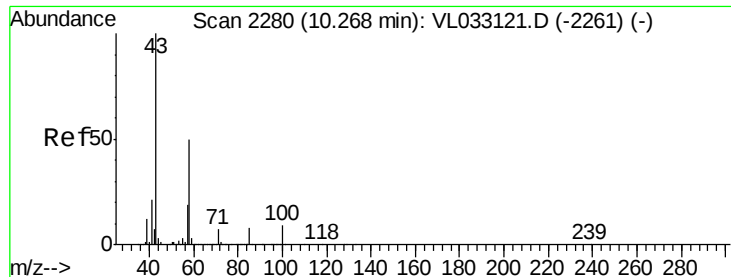
58 36.4 29.4 44.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.487 ppbv

RT: 10.27 min Scan# 2281

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 43 Resp: 1753428

Ion Ratio Lower Upper

43 100

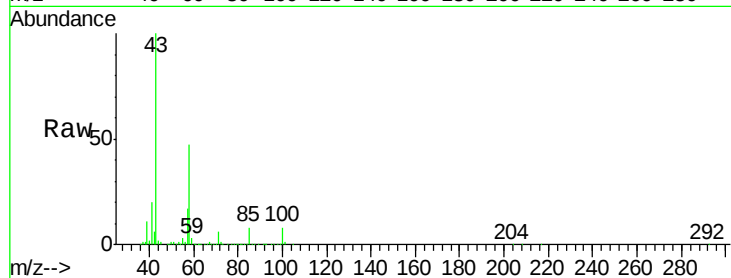
58 49.6 39.5 59.3

98 0.4 0.3 0.5

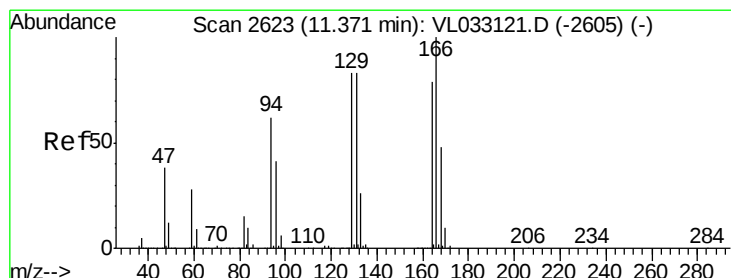
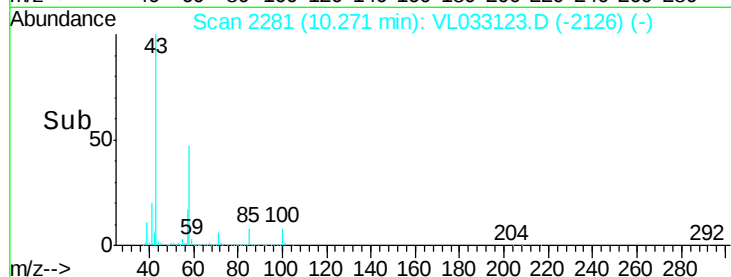
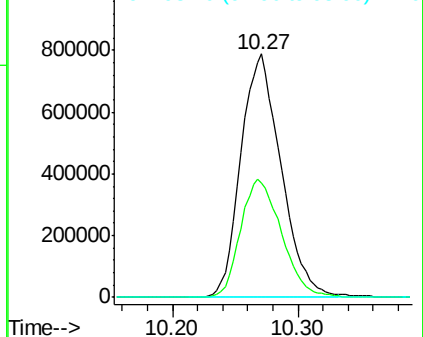
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.602 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Tgt Ion: 164 Resp: 892406

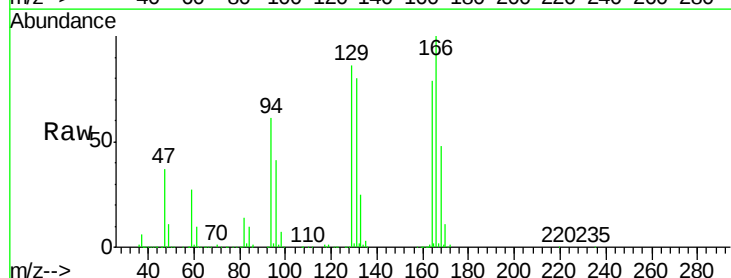
Ion Ratio Lower Upper

164 100

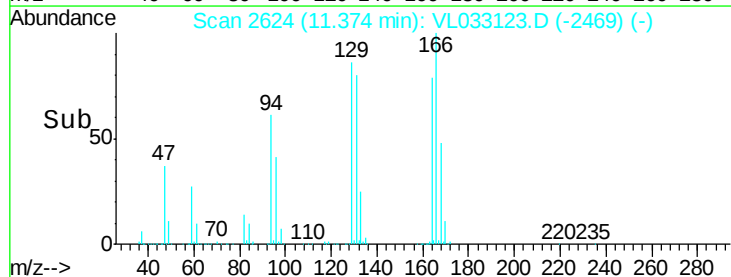
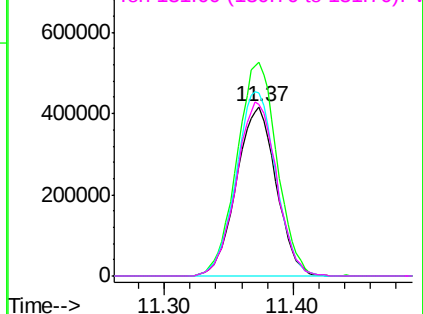
166 125.9 101.3 151.9

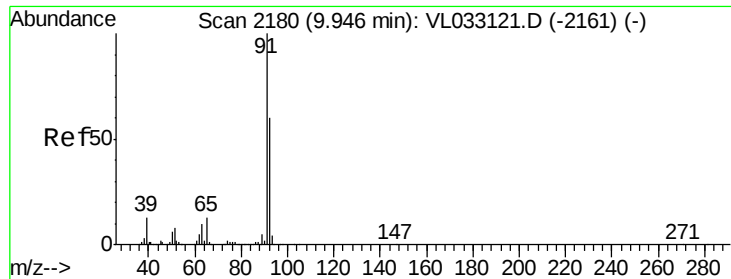
129 107.8 83.3 124.9

131 101.2 82.0 123.0



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.315 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 91 Resp: 2881846

Ion Ratio Lower Upper

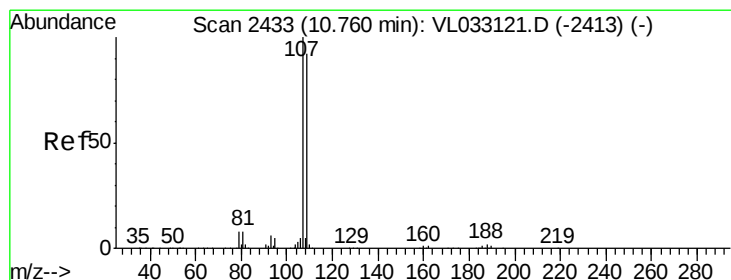
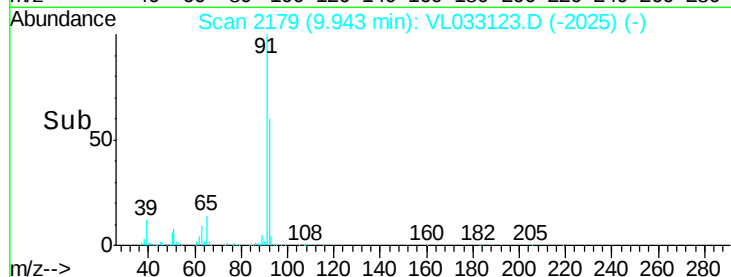
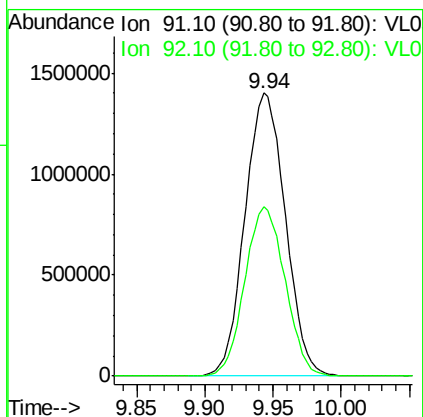
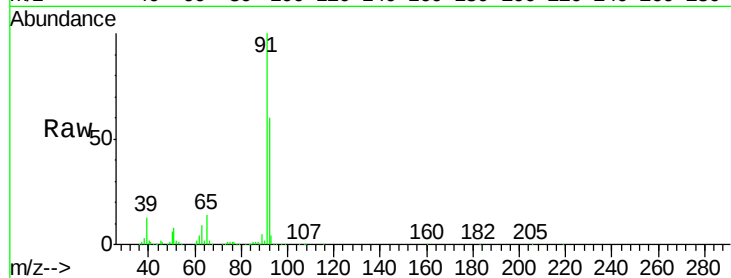
91 100

92 59.7 47.9 71.9

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#54

1,2-Dibromoethane

Concen: 9.732 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033123.D

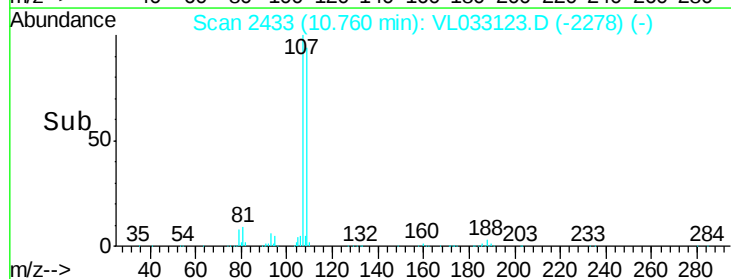
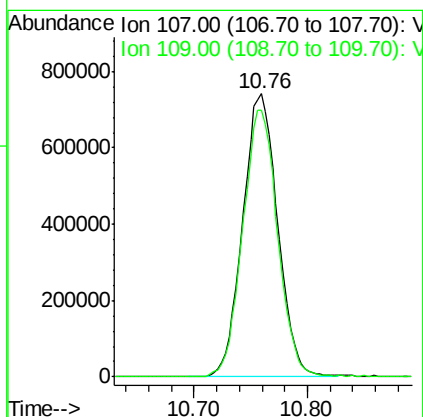
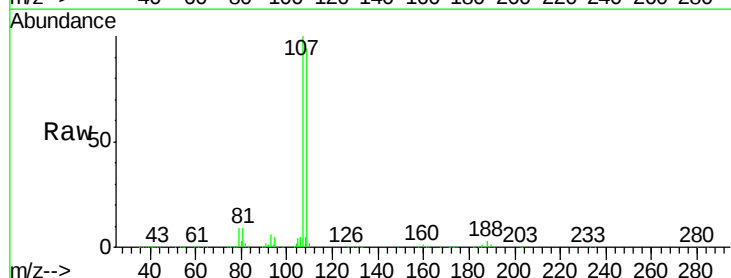
Acq: 28 Jan 2019 23:10

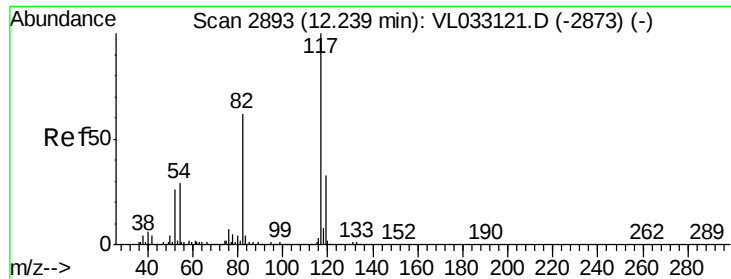
Tgt Ion: 107 Resp: 1594729

Ion Ratio Lower Upper

107 100

109 94.3 75.8 113.6





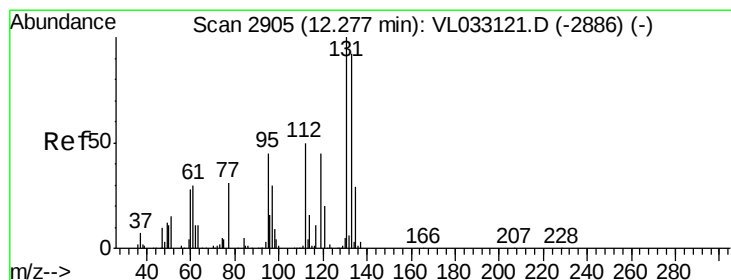
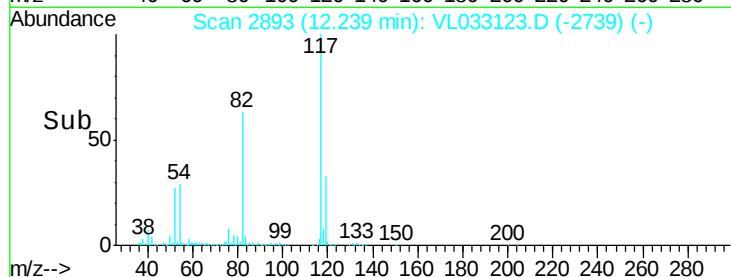
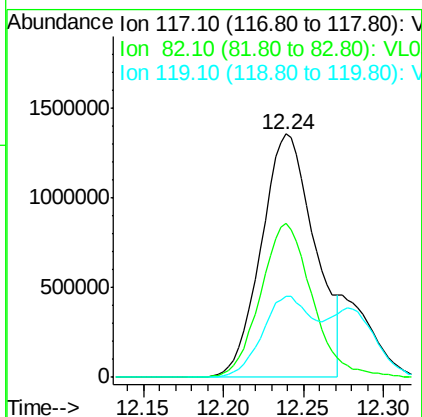
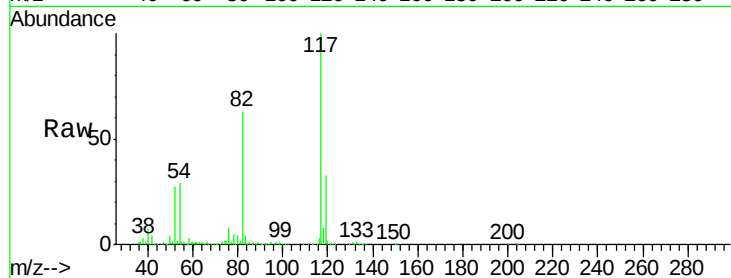
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012819

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.3	48.3	72.5
119	30.0	25.9	38.9

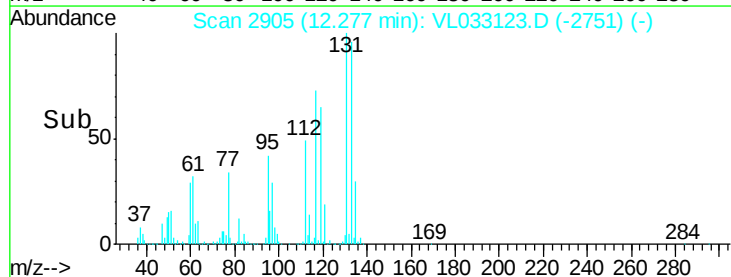
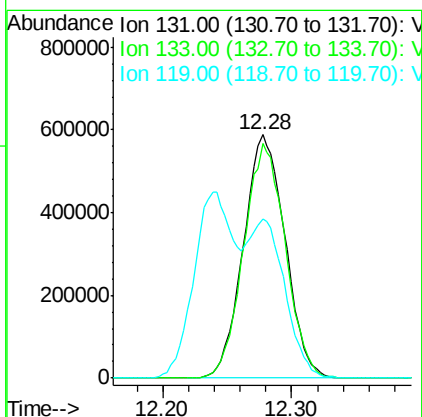
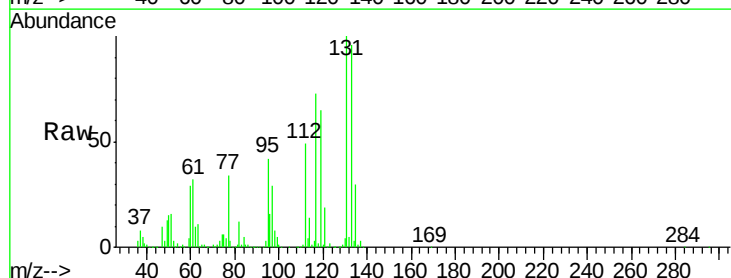
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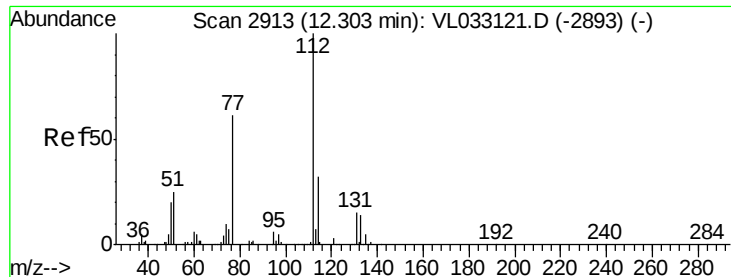
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.538 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.3	76.6	115.0
119	58.7	44.6	66.8





#57

Chlorobenzene

Concen: 8.882 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion:112 Resp: 2234143

Ion Ratio Lower Upper

112 100

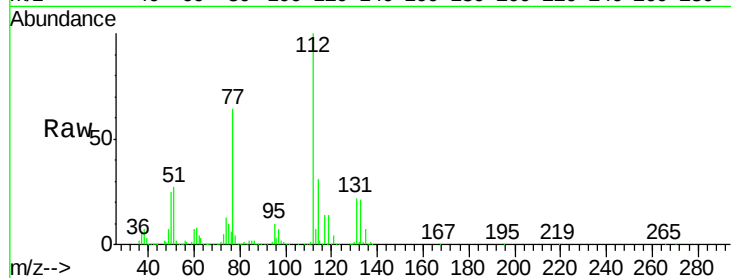
77 63.6 51.6 77.4

114 31.0 27.9 34.1

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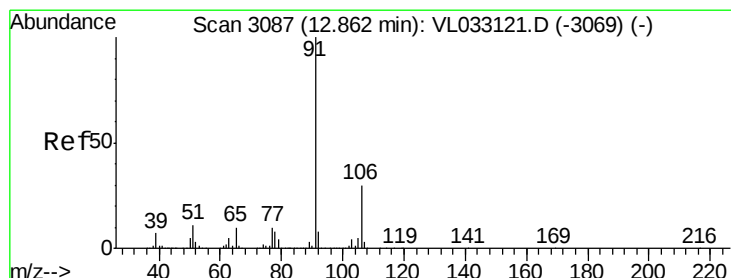
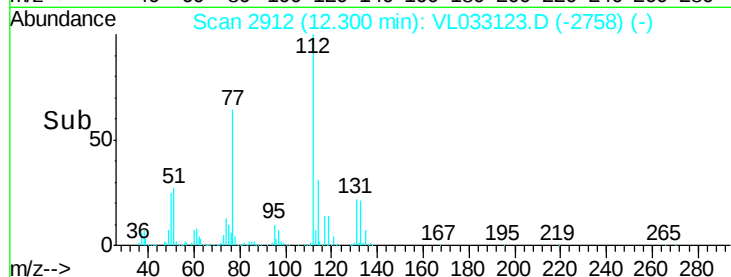
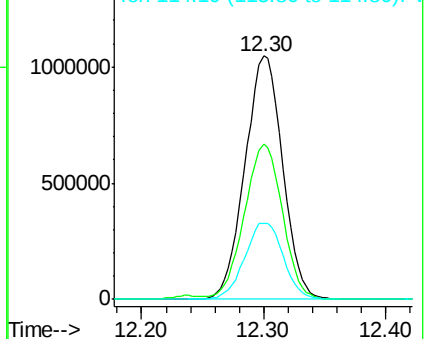
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.528 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL033123.D

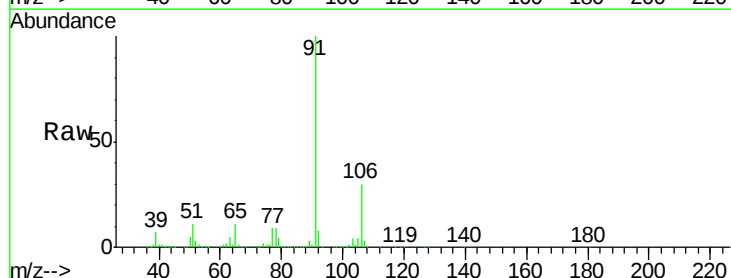
Acq: 28 Jan 2019 23:10

Tgt Ion: 91 Resp: 3905832

Ion Ratio Lower Upper

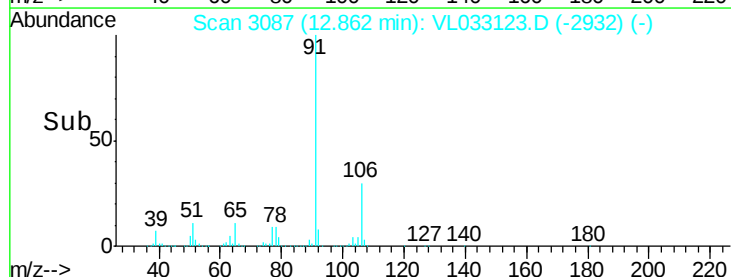
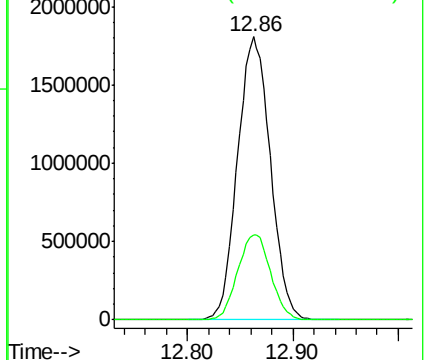
91 100

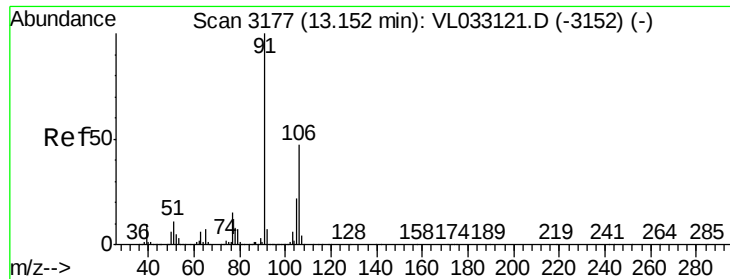
106 30.1 24.4 36.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 19.349 ppbv m

RT: 13.15 min Scan# 3177

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 91 Resp: 6648157

Ion Ratio Lower Upper

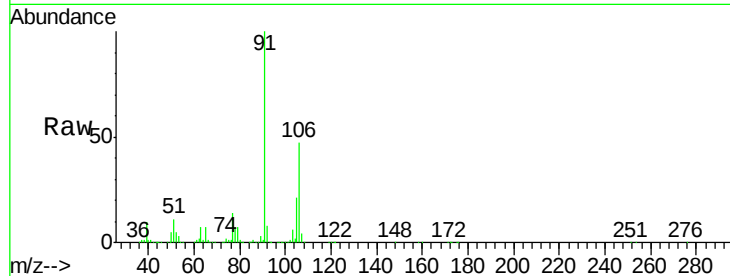
91 100

106 0.0 0.0 0.0

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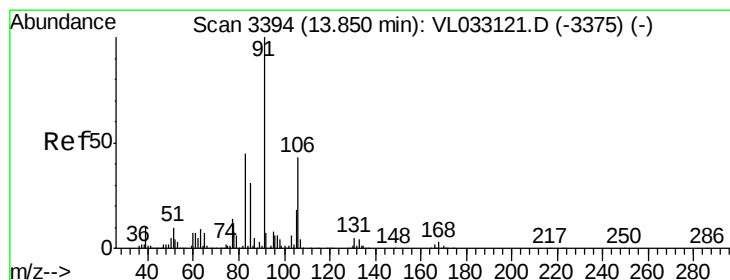
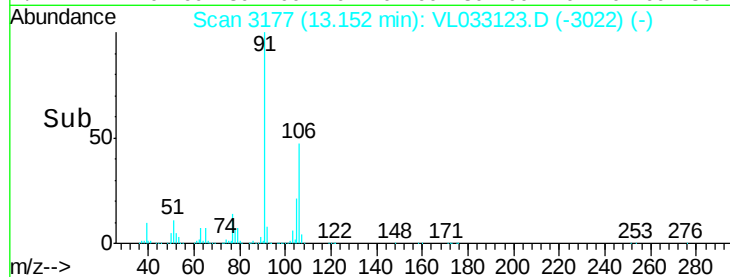
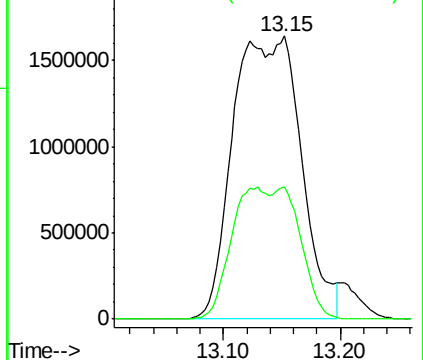
apatel

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.131 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL033123.D

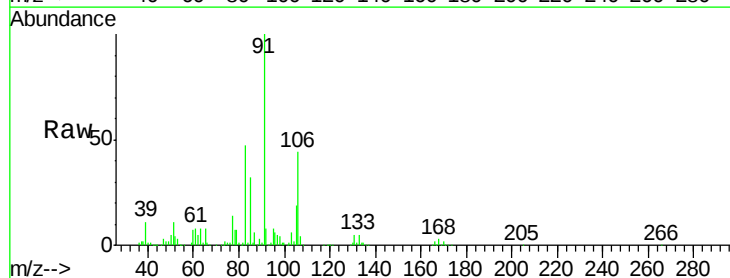
Acq: 28 Jan 2019 23:10

Tgt Ion: 91 Resp: 3251041

Ion Ratio Lower Upper

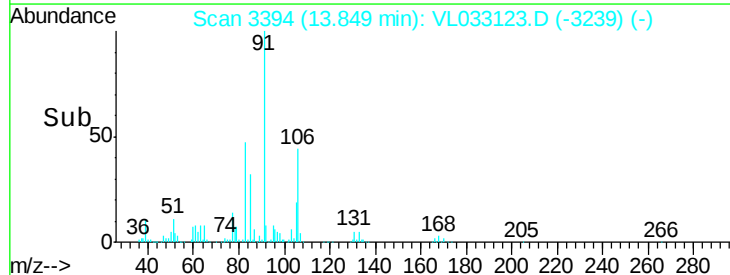
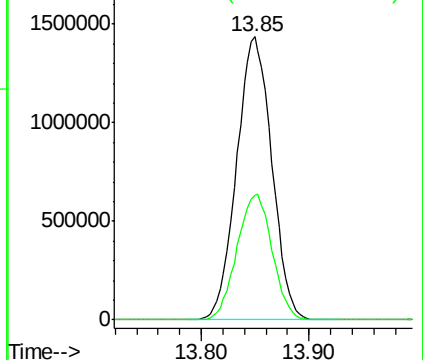
91 100

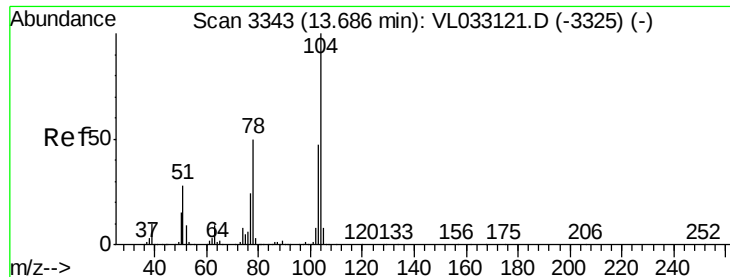
106 44.5 22.6 67.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





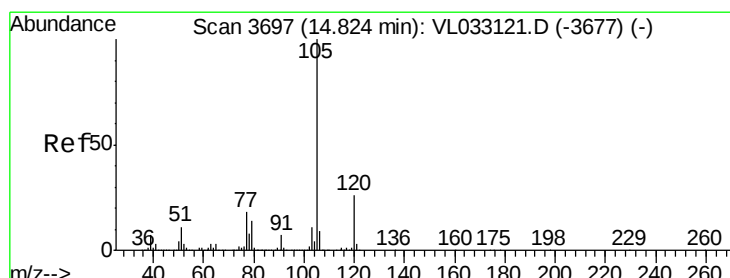
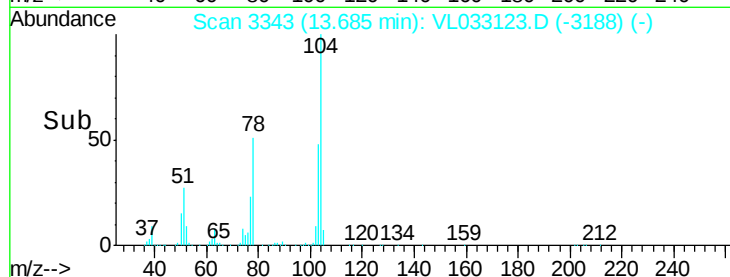
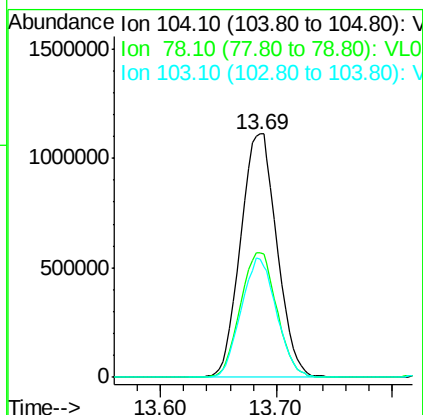
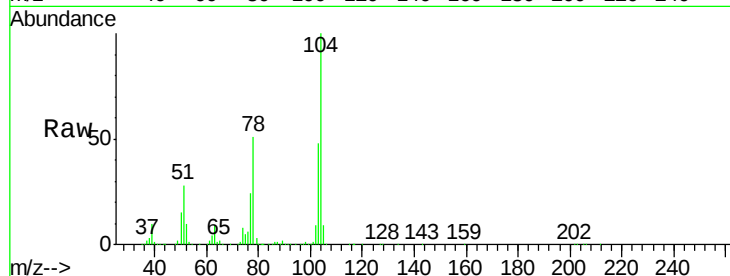
#61
Stvrene
Concen: 10.676 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012819

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.5	41.4	62.0
103	47.7	37.8	56.6

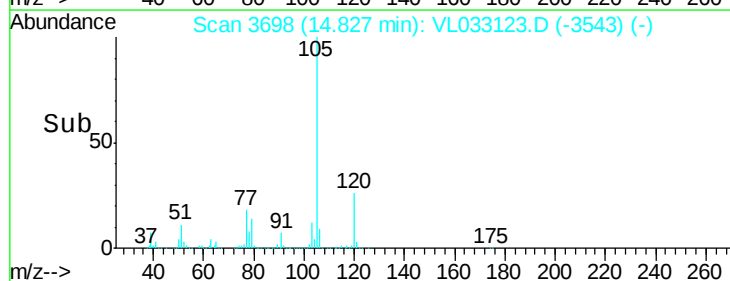
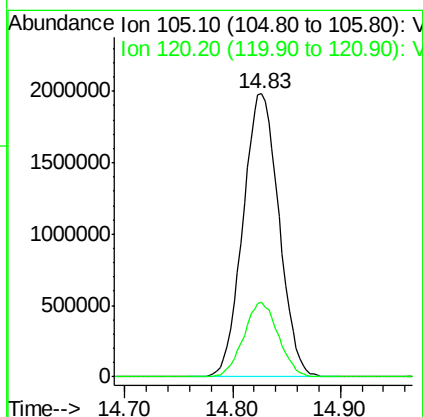
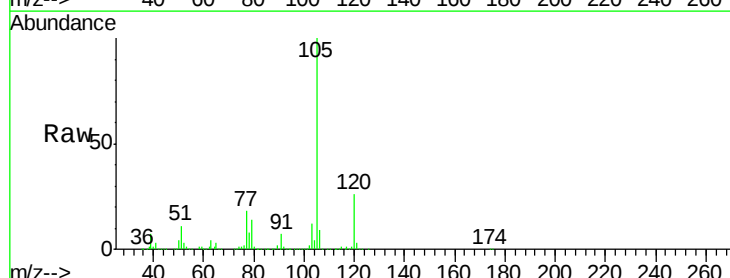
Manual Integrations
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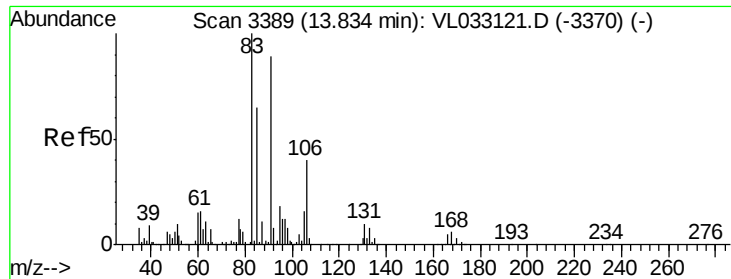
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#62
Isopropylbenzene
Concen: 9.108 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 7.837 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 83 Resp: 2222444

Ion Ratio Lower Upper

83 100

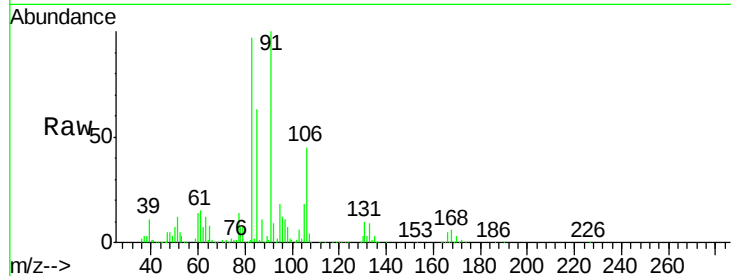
131 9.8 4.9 14.6

85 66.1 32.5 97.4

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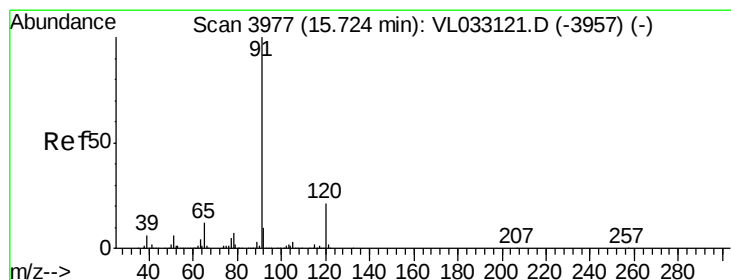
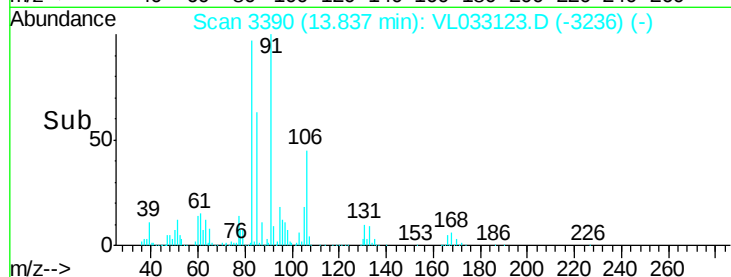
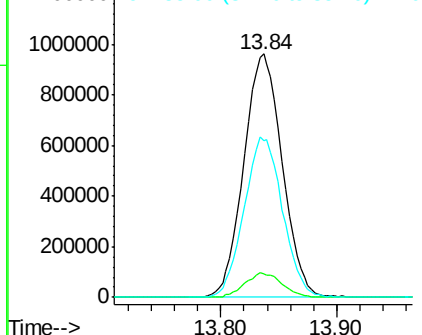
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.876 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. -0.00 min

Lab File: VL033123.D

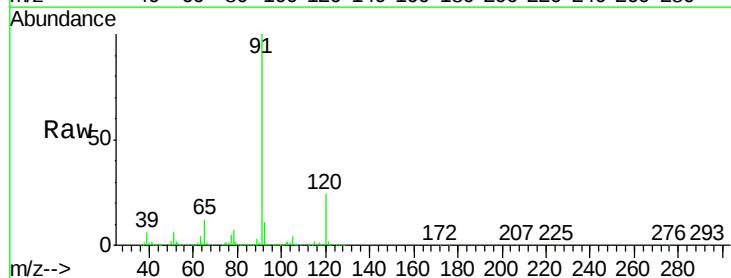
Acq: 28 Jan 2019 23:10

Tgt Ion:120 Resp: 1086654

Ion Ratio Lower Upper

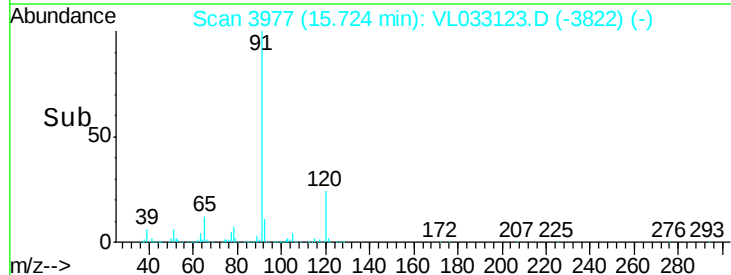
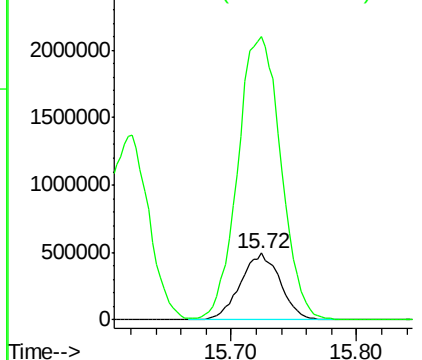
120 100

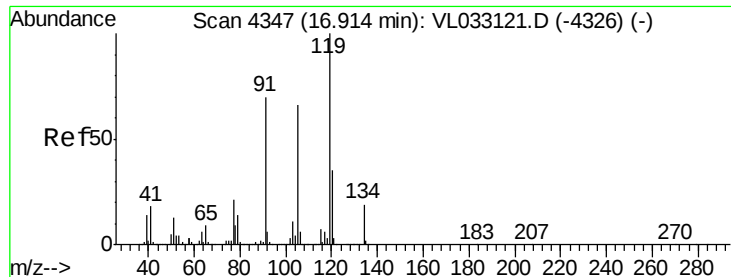
91 461.9 375.7 563.5



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.679 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion:119 Resp: 3678203

Ion Ratio Lower Upper

119 100

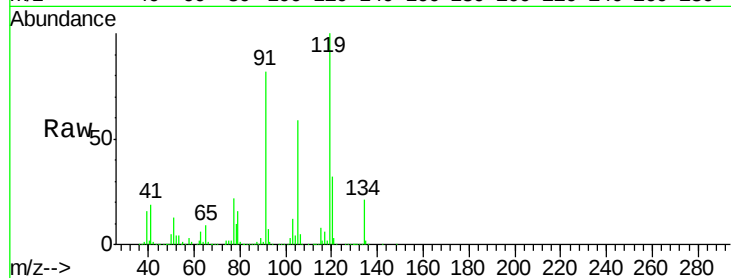
91 81.0 64.5 96.7

134 20.0 15.7 23.5

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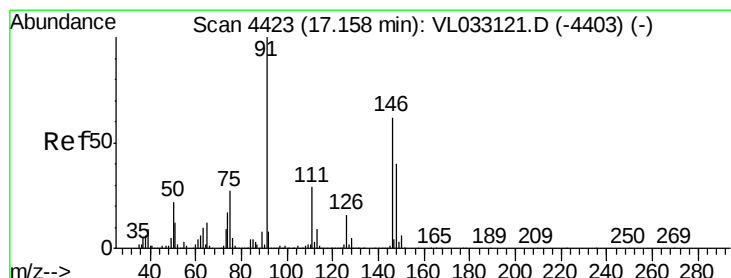
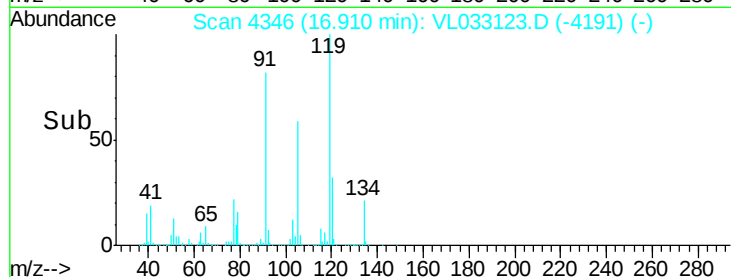
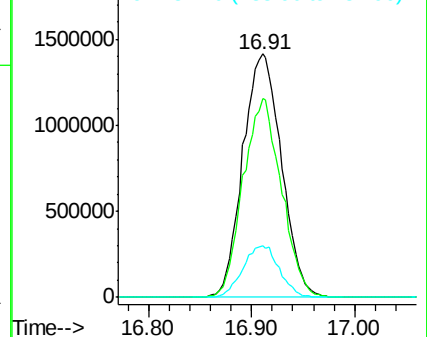
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.717 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

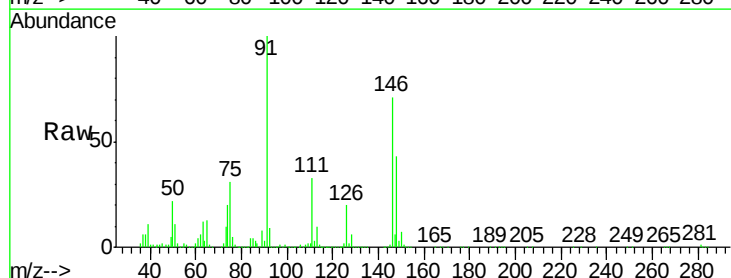
Tgt Ion: 91 Resp: 2217072

Ion Ratio Lower Upper

91 100

126 18.1 14.3 21.5

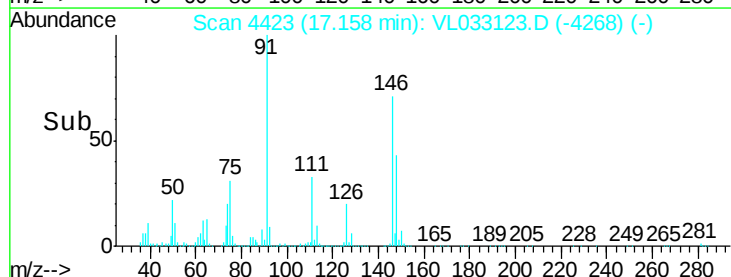
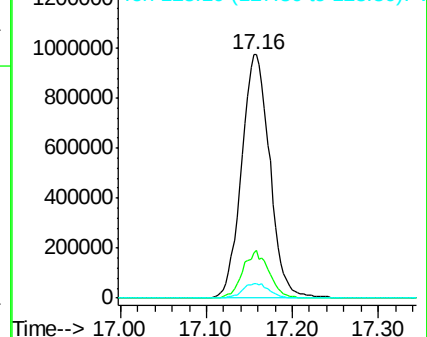
128 5.8 4.6 7.0

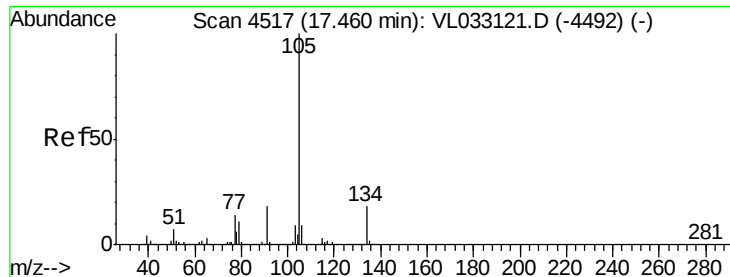


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.617 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 105 Resp: 5242429

Ion Ratio Lower Upper

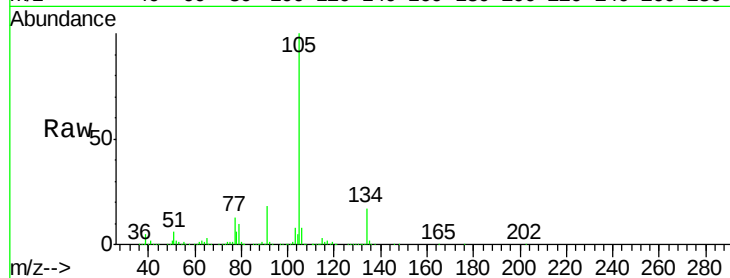
105 100

134 18.0 14.8 22.2

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

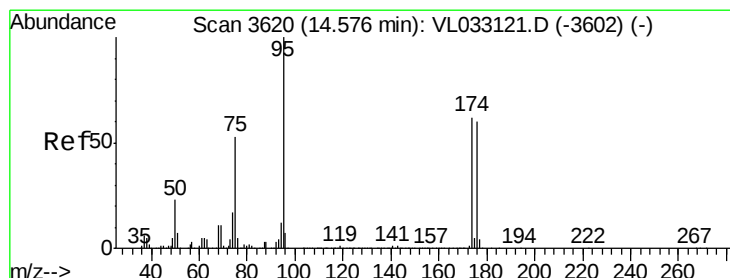
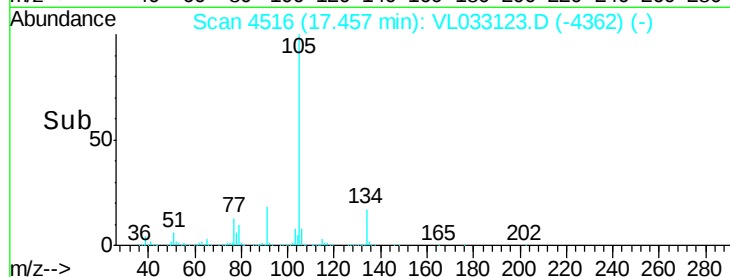
1000000

500000

0

17.30 17.40 17.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.806 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

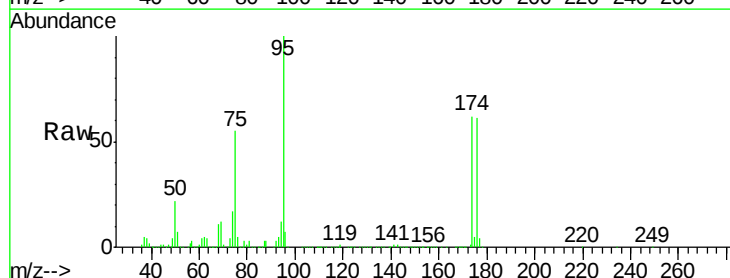
Tgt Ion: 95 Resp: 2333154

Ion Ratio Lower Upper

95 100

174 64.1 51.4 77.2

175 4.7 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

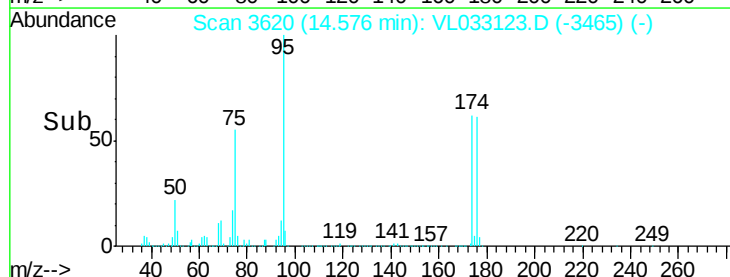
1000000

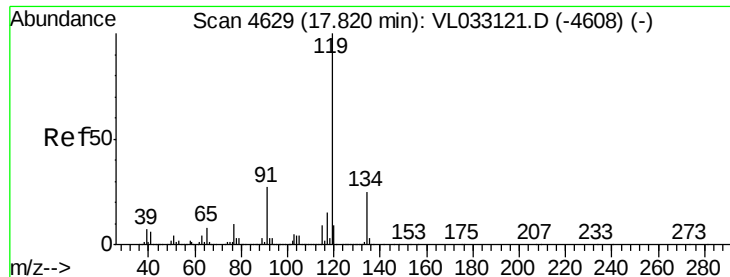
500000

0

14.50 14.60

Time-->





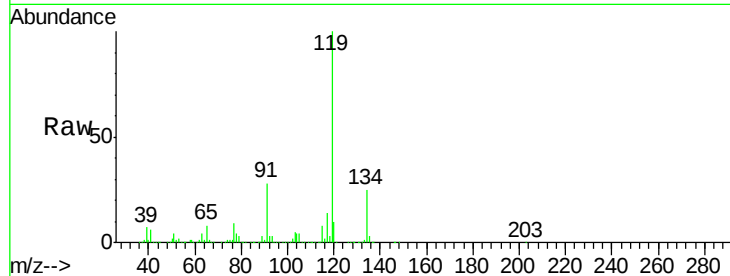
#69
 p-Isopropyltoluene
 Concen: 8.254 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. 0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012819

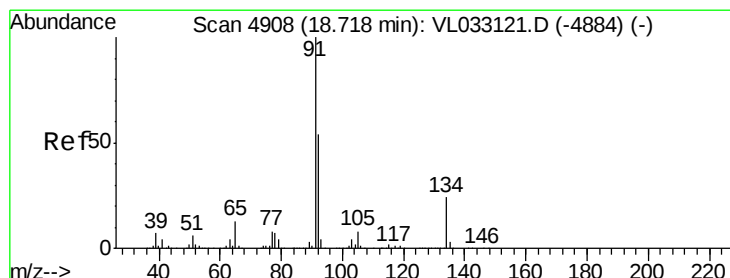
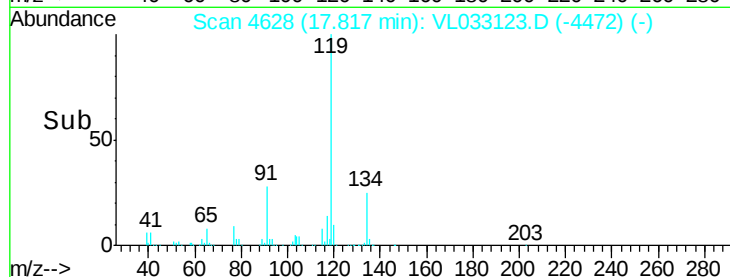
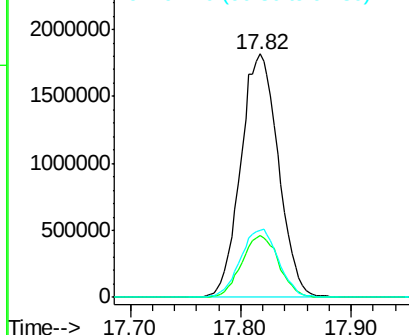
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.4	30.6
91	28.3	22.8	34.2

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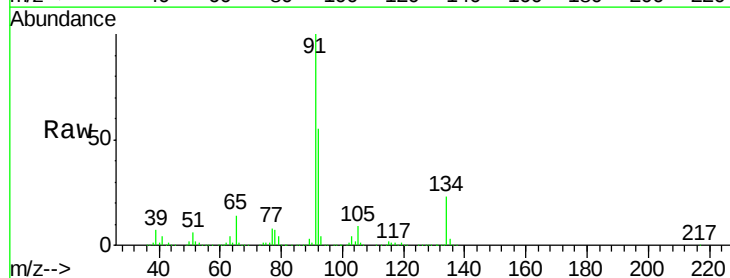


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

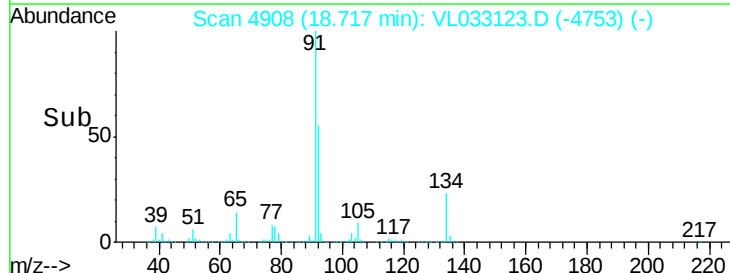
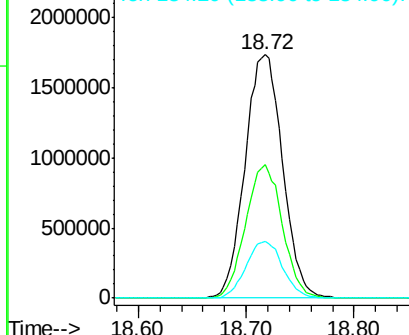


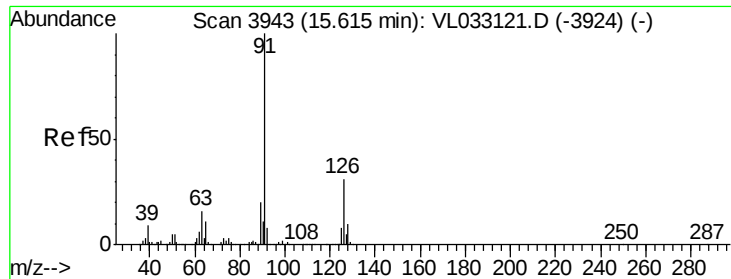
#70
 n-Butylbenzene
 Concen: 8.882 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.6	43.0	64.6
134	22.9	18.4	27.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.093 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. 0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion: 91 Resp: 3128026

Ion Ratio Lower Upper

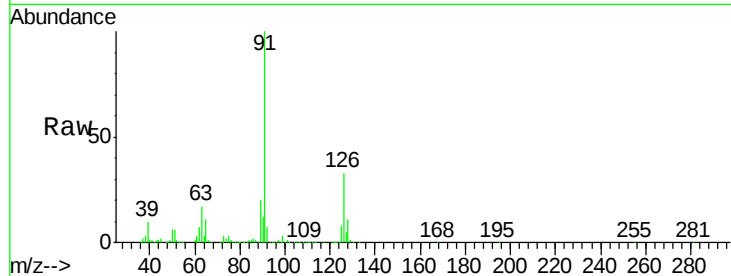
91 100

126 31.4 12.4 49.8

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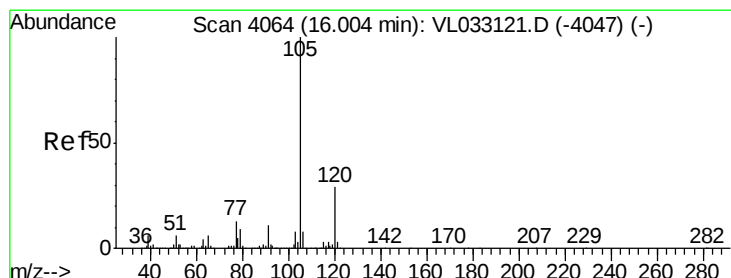
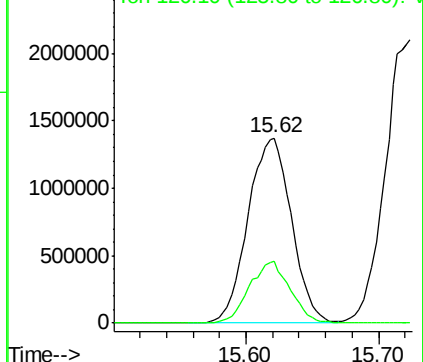
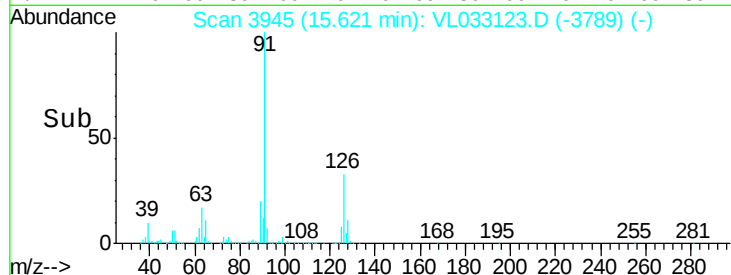
apatel

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.172 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Tgt Ion: 105 Resp: 3436222

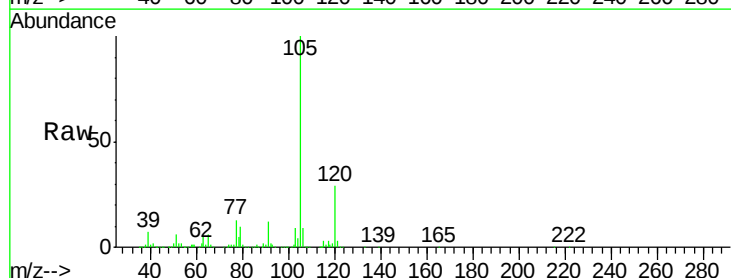
Ion Ratio Lower Upper

105 100

120 28.8 23.5 35.3

91 12.8 10.3 15.5

77 13.7 11.0 16.4

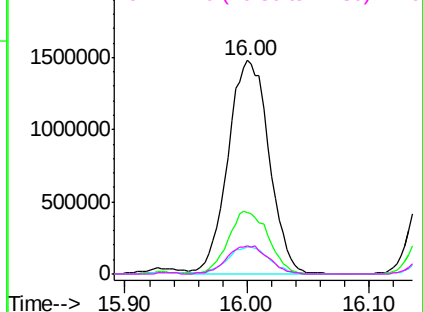
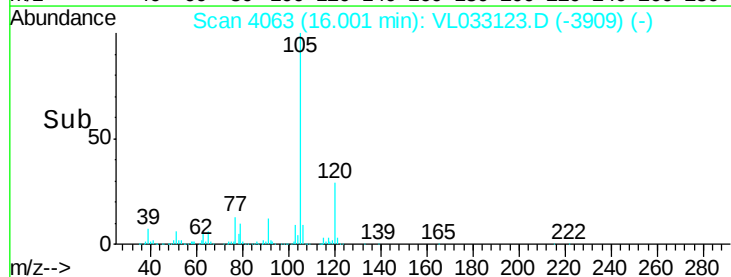


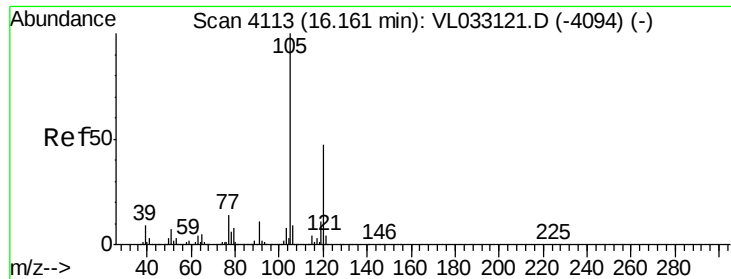
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 8.793 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012819

Tot Ion:105 Resp: 3221953

Ion Ratio Lower Upper

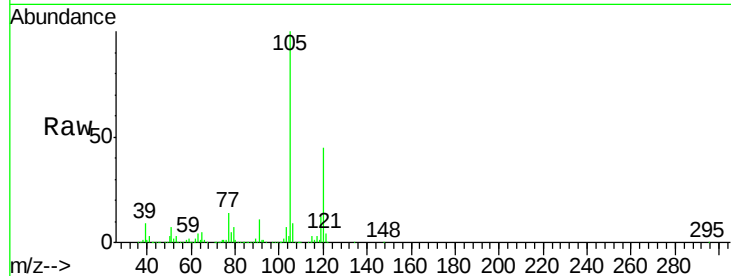
105 100

120 44.7 37.5 56.3

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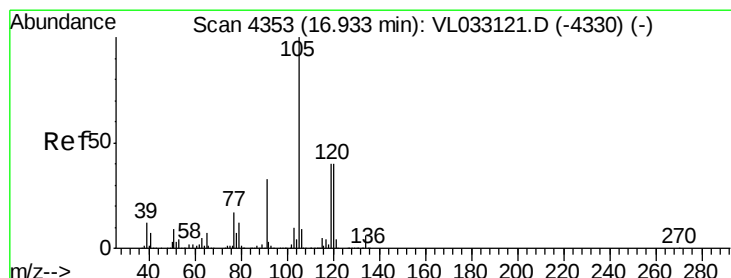
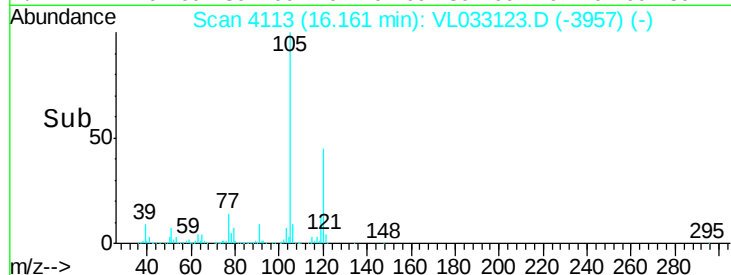
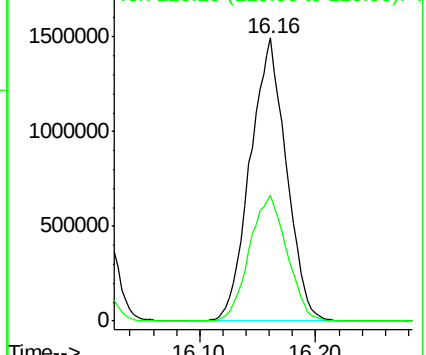
apatel

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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: 8.617 ppbv m

RT: 16.93 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Tgt Ion:105 Resp: 3343748

Ion Ratio Lower Upper

105 100

120 43.1 37.9 56.9

91 37.8 39.8 59.8#

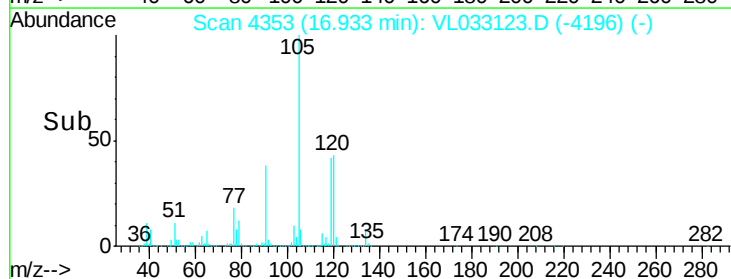
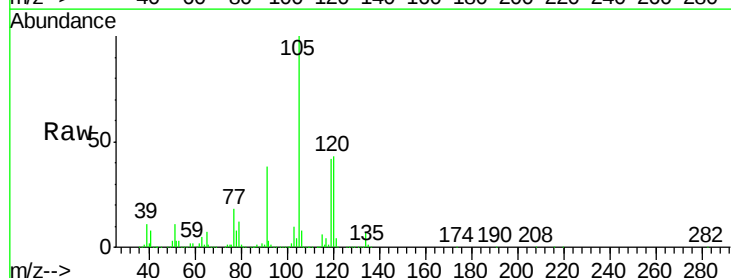
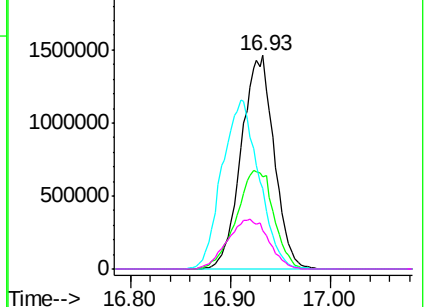
77 18.1 17.8 26.8

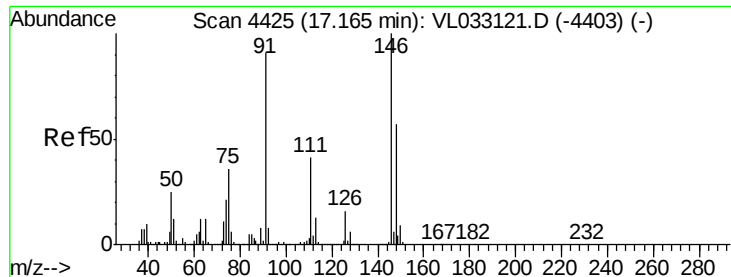
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 7.989 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

Instrument :

MSVOA_L

ClientSampled :

ICVVL012819

Tot Ion:146 Resp: 1872465

Ion Ratio Lower Upper

146 100

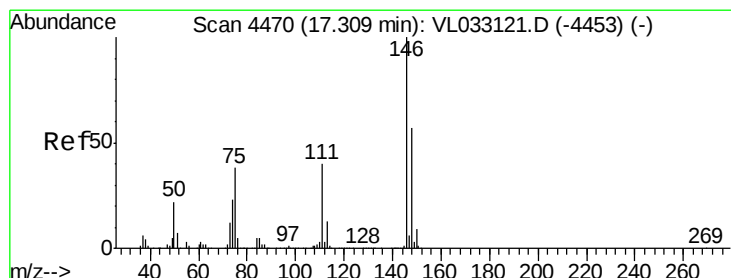
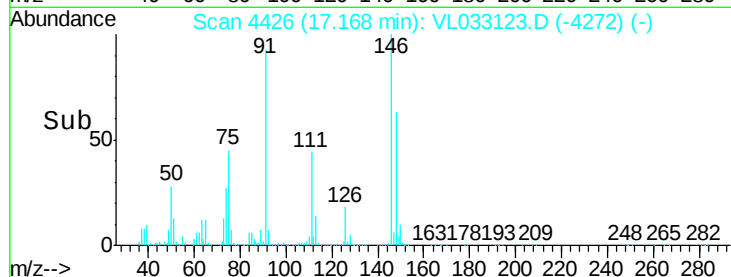
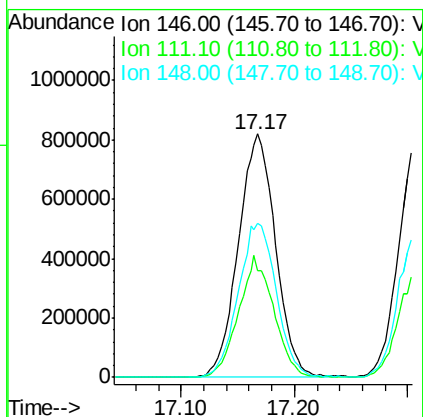
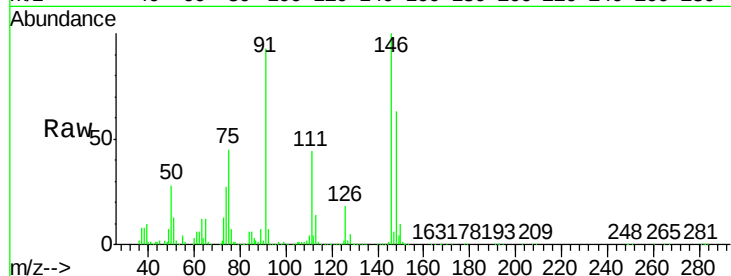
111 47.3 23.4 70.0

148 65.1 32.1 96.3

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#76

1,4-Dichlorobenzene

Concen: 8.621 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033123.D

Acq: 28 Jan 2019 23:10

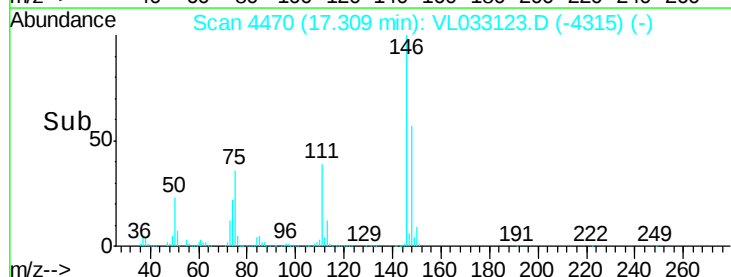
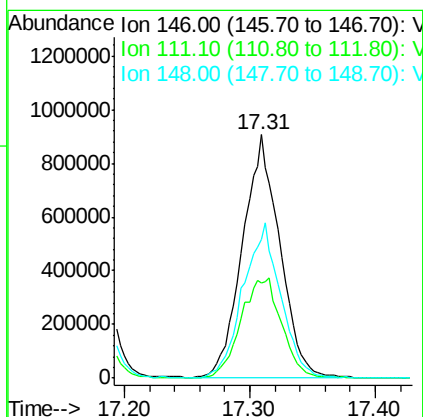
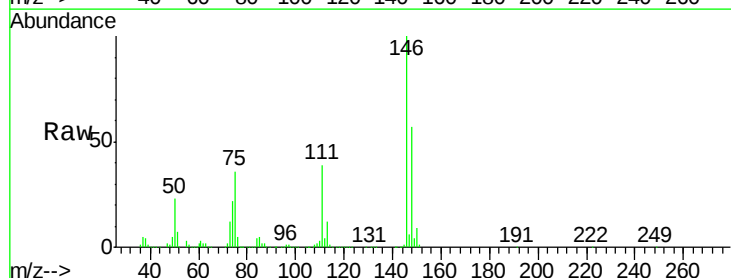
Tgt Ion:146 Resp: 1862380

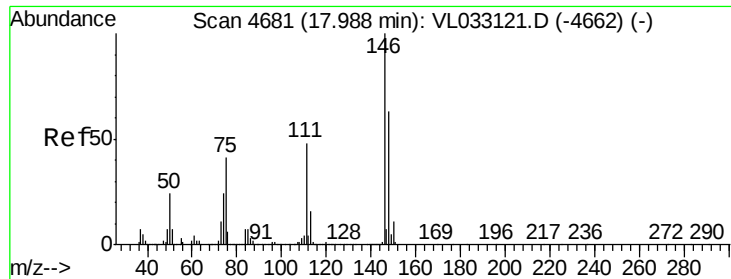
Ion Ratio Lower Upper

146 100

111 45.6 22.7 68.0

148 65.1 32.1 96.3





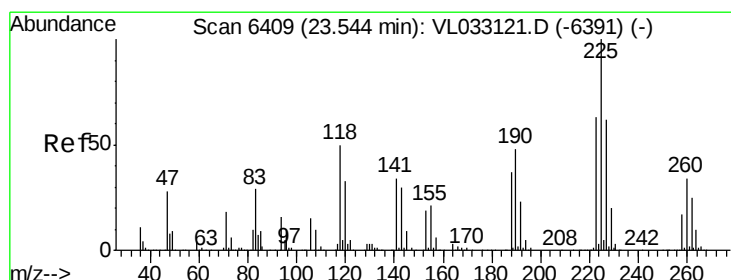
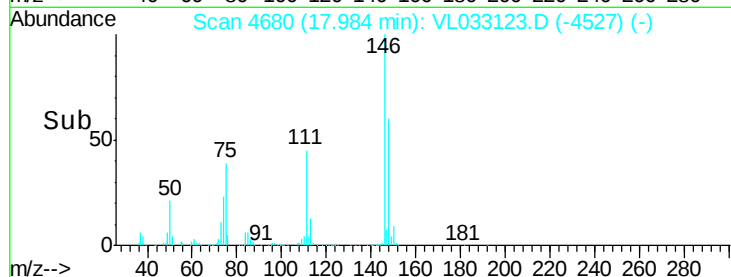
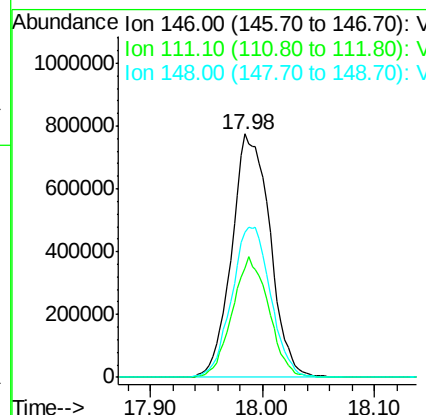
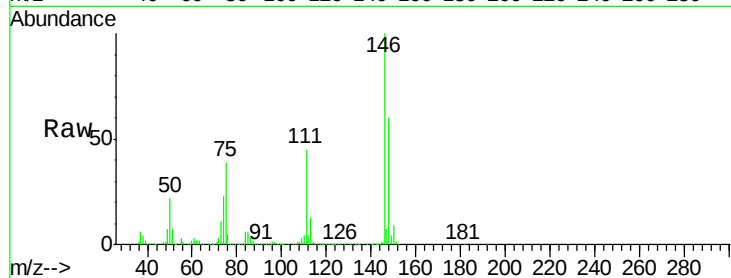
#77
 1,2-Dichlorobenzene
 Concen: 7.798 ppbv m
 RT: 17.98 min Scan# 4680
 Delta R.T. -0.01 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Instrument :
 MSVOA_L
 ClientSampled :
 ICVVL012819

Tot Ion:146 Resp: 1837033
 Ion Ratio Lower Upper
 146 100
 111 47.3 24.4 73.2
 148 63.0 32.6 97.7

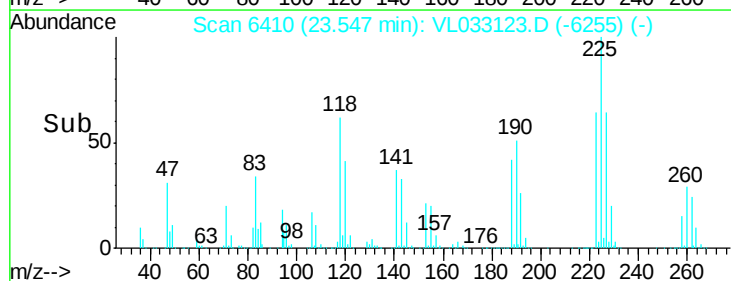
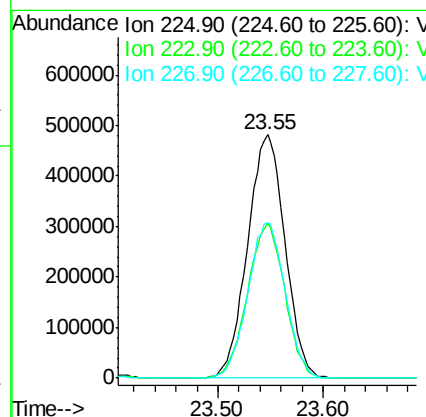
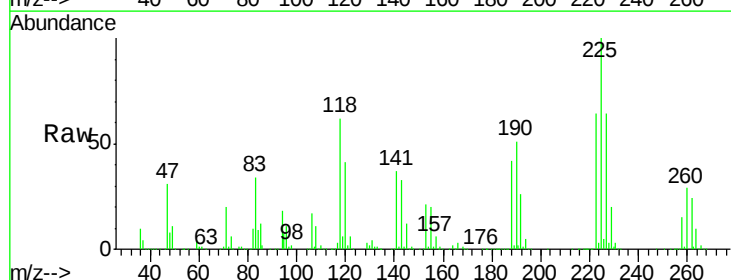
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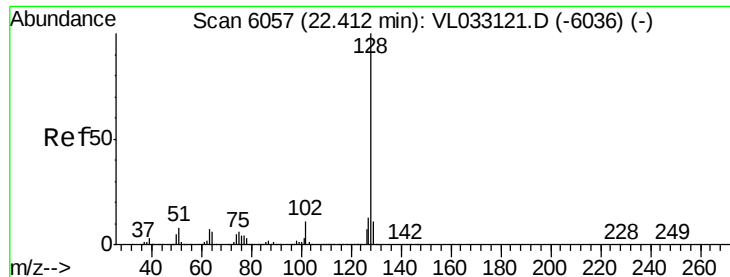
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.630 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Tgt Ion:225 Resp: 1190942
 Ion Ratio Lower Upper
 225 100
 223 63.3 50.5 75.7
 227 63.7 51.0 76.4





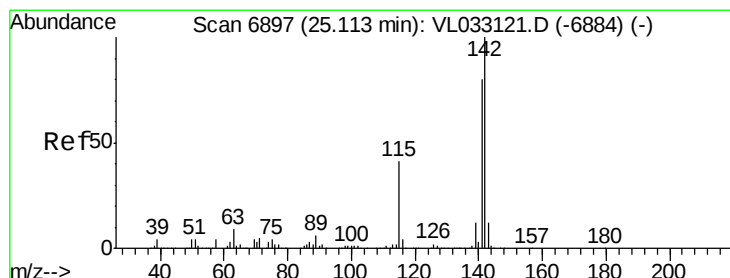
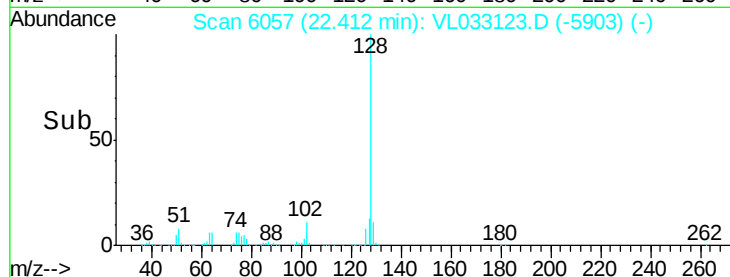
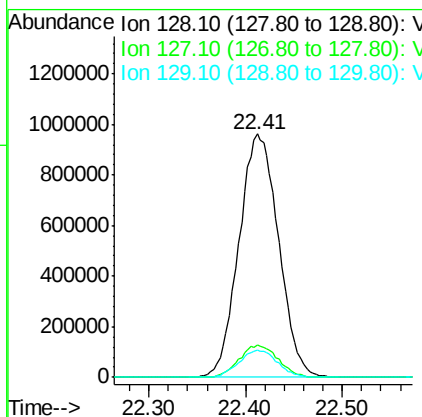
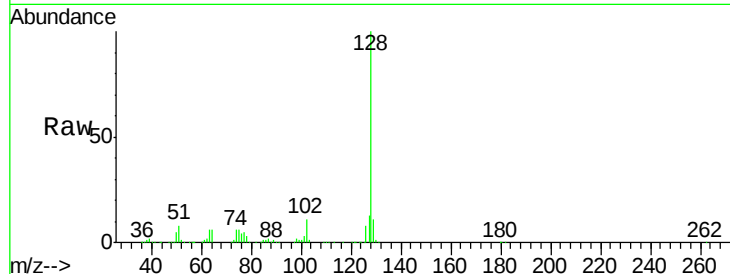
#79
Naphthalene
Concen: 11.464 ppbv
RT: 22.41 min Scan# 6057
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012819

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	15.8
129	11.2	9.2	13.8

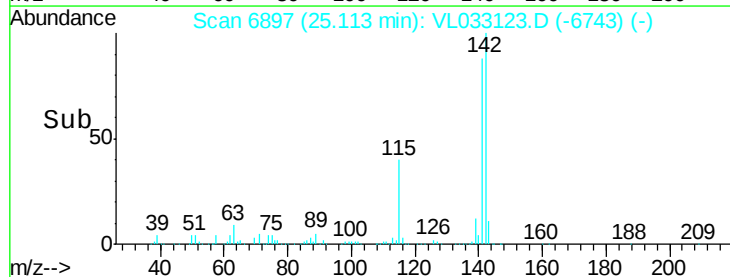
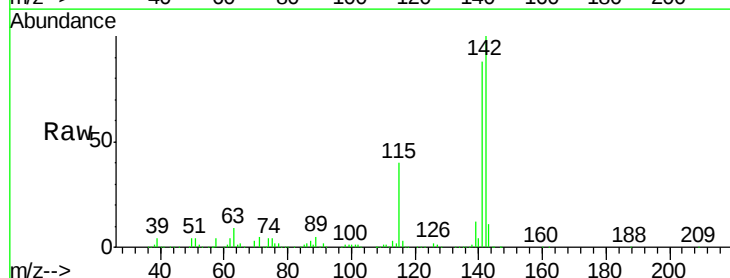
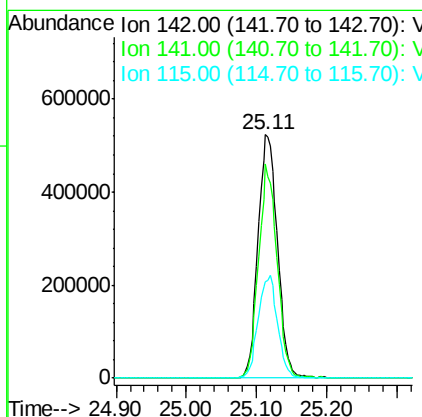
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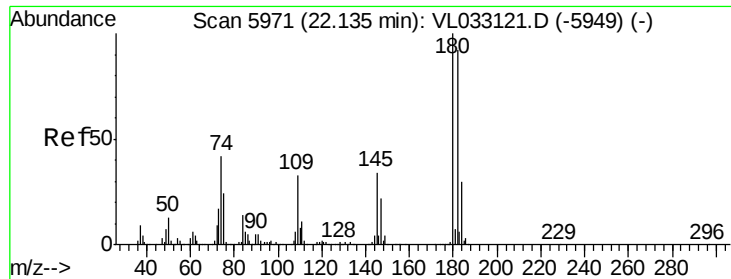
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#80
Naphthalene, 2-methyl-
Concen: 16.958 ppbv
RT: 25.11 min Scan# 6897
Delta R.T. -0.00 min
Lab File: VL033123.D
Acq: 28 Jan 2019 23:10

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.6	67.4	101.2
115	42.0	34.9	52.3





#81
 1,2,4-Trichlorobenzene
 Concen: 10.884 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033123.D
 Acq: 28 Jan 2019 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012819

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.5	114.7
184	30.5	24.2	36.4

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