

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033464.D
 Acq On : 27 Mar 2019 10:20
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:43 AM

Quant Time: Mar 28 07:28:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 07:28:53 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	849313	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1977141	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2118577m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1577096	9.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1115929	9.009	ppbv	98
3) Chlorodifluoromethane	3.01	51	923825	9.448	ppbv	99
4) Chloromethane	3.17	50	492188	9.512	ppbv	98
5) Vinyl Chloride	3.29	62	486459	9.569	ppbv	100
6) Bromomethane	3.51	94	310886	9.516	ppbv	95
7) Chloroethane	3.60	64	177032	9.357	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1219662	9.241	ppbv	100
9) Propene	3.03	41	390759	9.516	ppbv	97
10) Heptane	8.24	43	1050435	9.570	ppbv	100
11) Trichlorofluoromethane	4.00	101	1394375	9.134	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	964184	9.403	ppbv	100
13) Ethanol	3.64	45	113860	10.715	ppbv	66
14) Bromoethene	3.79	108	399520	9.769	ppbv	99
15) Acetone	3.90	43	877254	8.590	ppbv	98
16) 1,3-Butadiene	3.36	39	415468	10.257	ppbv	92
17) tert-Butyl alcohol	4.35	59	192899	10.273	ppbv	98
18) 1,1-Dichloroethene	4.35	96	427230	9.700	ppbv	95
19) Isopropyl Alcohol	4.02	45	680592	10.537	ppbv #	98
20) Methylene Chloride	4.41	84	381053	8.790	ppbv	93
21) Allyl Chloride	4.47	41	632020	9.790	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	437673	9.525	ppbv	97
23) Vinyl Acetate	5.15	43	1458382	10.033	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1030074	9.329	ppbv	99
25) Ethyl Acetate	5.76	43	1791936	9.458	ppbv	100
26) Hexane	5.78	57	801111	9.509	ppbv	98
27) Carbon Disulfide	4.62	76	1057549	10.556	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1193849	9.839	ppbv	100
29) Chloroform	5.85	83	1353297	9.371	ppbv	97
30) Cyclohexane	7.25	84	671174	10.071	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	826708	9.870	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1327694	9.655	ppbv	99
34) 2-Butanone	5.33	43	1150644	9.687	ppbv	100
35) Carbon Tetrachloride	7.13	117	1442742	10.302	ppbv	97
36) Benzene	7.00	78	1654521	9.973	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1055155	9.489	ppbv	100
38) Trichloroethene	7.96	130	661381	10.593	ppbv	96
39) 1,2-Dichloropropane	7.73	63	621941	9.570	ppbv	99
40) 1,4-Dioxane	7.96	88	249059m	10.745	ppbv	
41) Tetrahydrofuran	6.14	42	655495	10.033	ppbv	97
42) Bromodichloromethane	7.91	83	1483191	9.793	ppbv	99
43) Methyl Methacrylate	8.13	69	676007	10.036	ppbv	99

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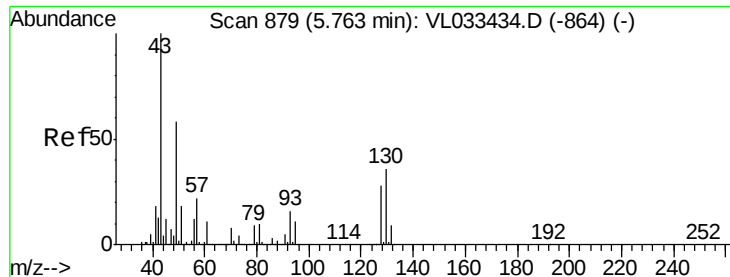
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 4/1/2019 1:25:43 AM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 07:28:53 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2759809	9.520	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	922520	11.154	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1047601	10.847	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	702328	9.518	ppbv	98
48) Dibromochloromethane	10.45	129	1287864	10.347	ppbv	100
49) Bromoform	13.20	173	1179887	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1712382	9.845	ppbv	99
51) 2-Hexanone	10.27	43	1367575	10.540	ppbv #	100
52) Tetrachloroethene	11.37	164	648752	10.365	ppbv	93
53) Toluene	9.95	91	1979877	10.270	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1142085	9.895	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	912417	9.397	ppbv	97
57) Chlorobenzene	12.30	112	1549004	9.416	ppbv	95
58) Ethyl Benzene	12.86	91	2852483	10.082	ppbv	99
59) m/p-Xylene	13.12	91	4848420m	19.186	ppbv	
60) o-Xylene	13.85	91	2381084	9.744	ppbv	99
61) Styrene	13.68	104	1774612	10.581	ppbv	99
62) Isopropylbenzene	14.82	105	3336790	9.643	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1629837	9.058	ppbv	100
64) n-propylbenzene	15.72	120	859159	9.785	ppbv	99
65) tert-Butylbenzene	16.91	119	3021578	9.909	ppbv	100
66) Benzyl Chloride	17.15	91	1639454	11.562	ppbv	99
67) sec-Butylbenzene	17.46	105	4285855	9.883	ppbv	99
69) p-Isopropyltoluene	17.81	119	3573841	10.122	ppbv	100
70) n-Butylbenzene	18.71	91	3790760	10.133	ppbv	100
71) 2-Chlorotoluene	15.62	91	2586328	9.829	ppbv	100
72) 4-Ethyltoluene	16.00	105	2780845	10.124	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	2673861	10.172	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2796611	9.926	ppbv #	91
75) 1,3-Dichlorobenzene	17.16	146	1648536	9.467	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1649876	9.724	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1597842	9.671	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	873838	7.990	ppbv	99
79) Naphthalene	22.41	128	2735453	11.342	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1186863	14.663	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	1395188	10.429	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

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 849313

Ion Ratio Lower Upper

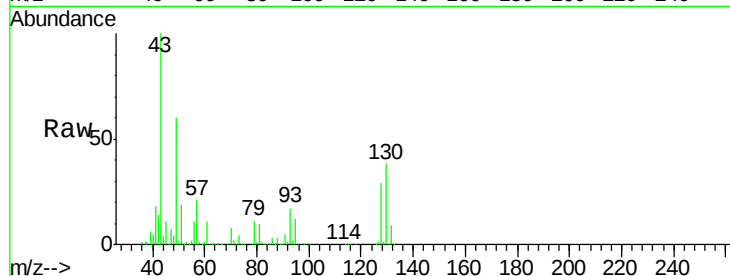
49 100

128 48.6 24.0 72.0

130 61.8 31.2 93.6

Manual Integrations
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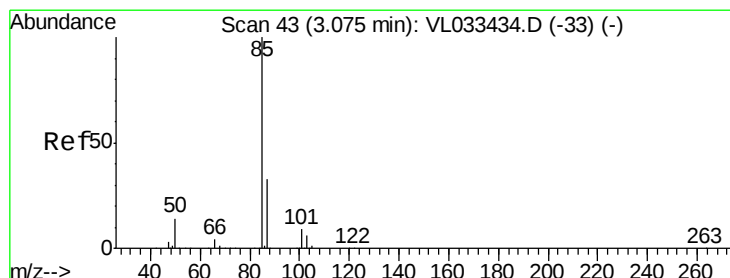
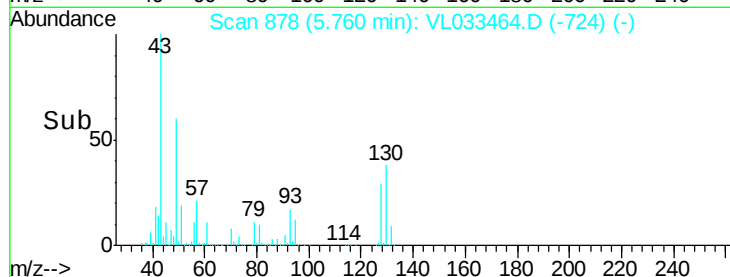
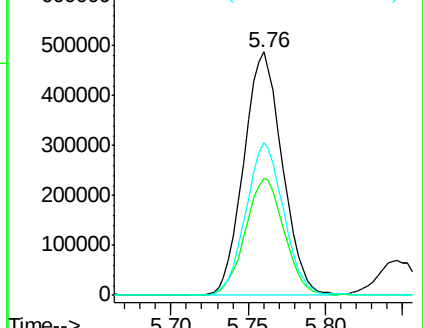
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 9.009 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033464.D

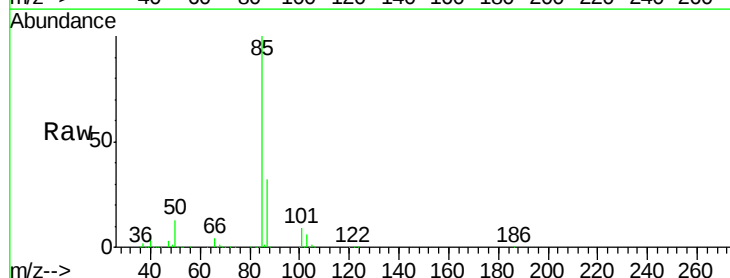
Acq: 27 Mar 2019 10:20

Tgt Ion: 85 Resp: 1115929

Ion Ratio Lower Upper

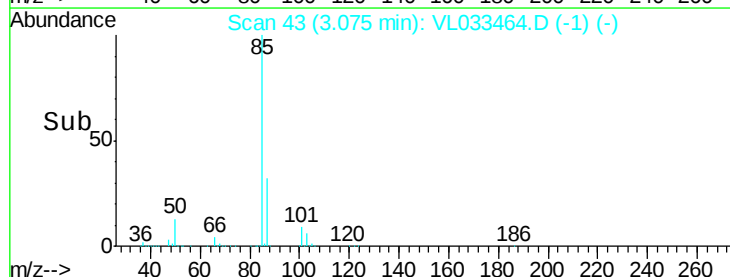
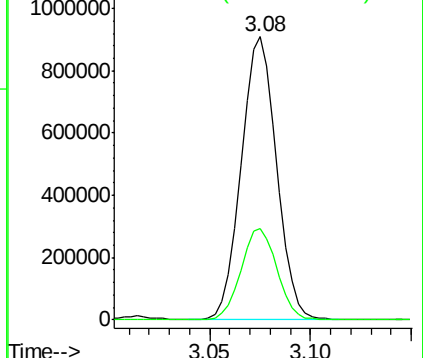
85 100

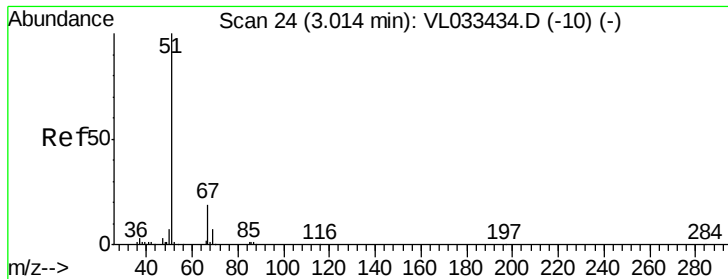
87 32.1 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.448 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 923825

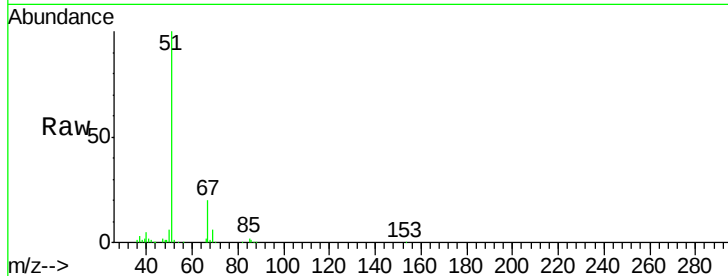
Ion Ratio Lower Upper

51 100

67 19.3 15.7 23.5

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.01

800000

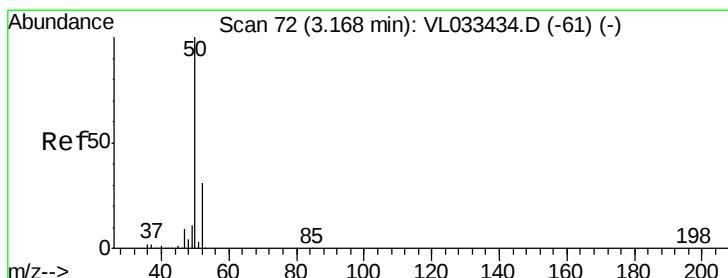
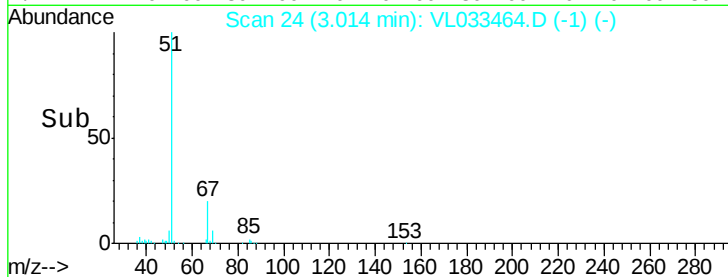
600000

400000

200000

0

Time--> 2.90 3.00 3.10



#4

Chloromethane

Concen: 9.512 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033464.D

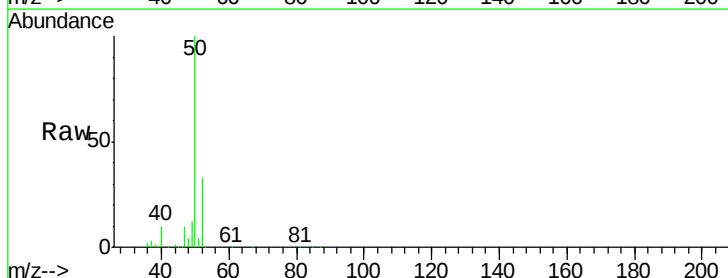
Acq: 27 Mar 2019 10:20

Tgt Ion: 50 Resp: 492188

Ion Ratio Lower Upper

50 100

52 32.6 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

400000

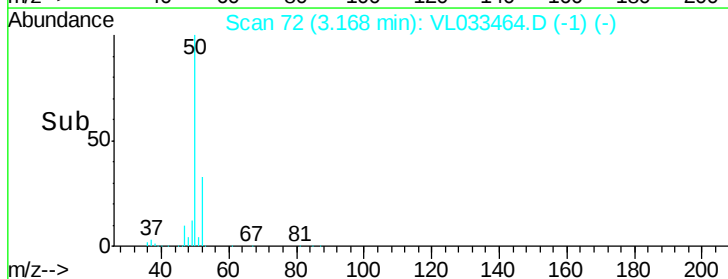
300000

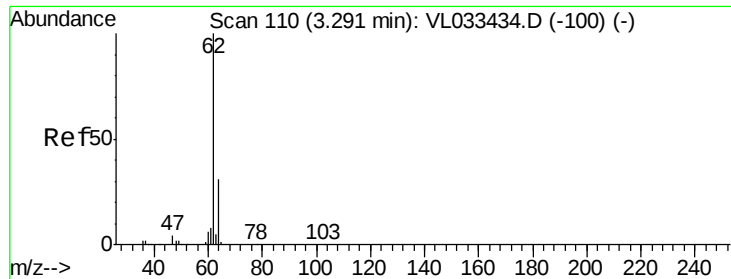
200000

100000

0

Time--> 3.10 3.15 3.20





#5

Vinyl Chloride

Concen: 9.569 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 486459

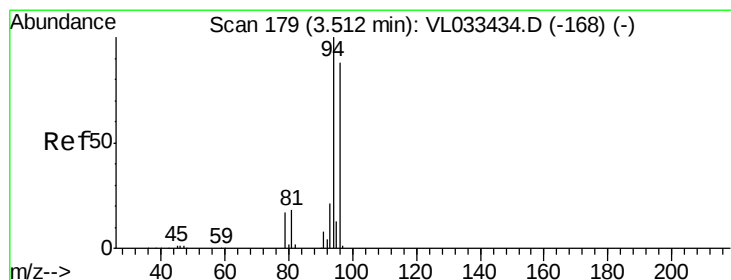
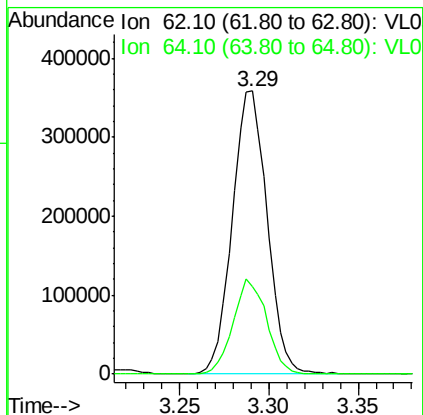
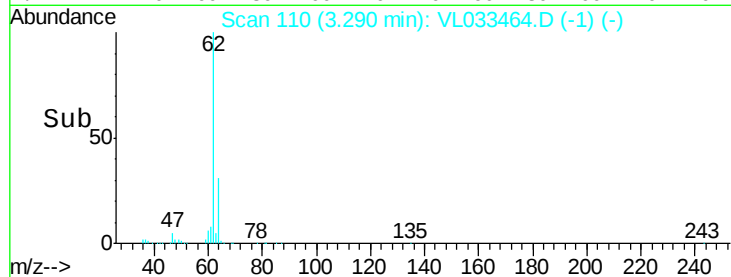
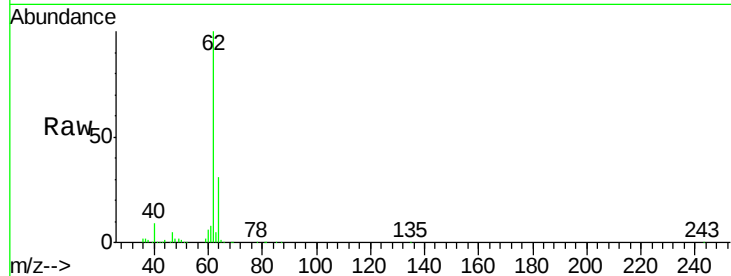
Ion Ratio Lower Upper

62 100

64 31.0 24.9 37.3

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#6

Bromomethane

Concen: 9.516 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033464.D

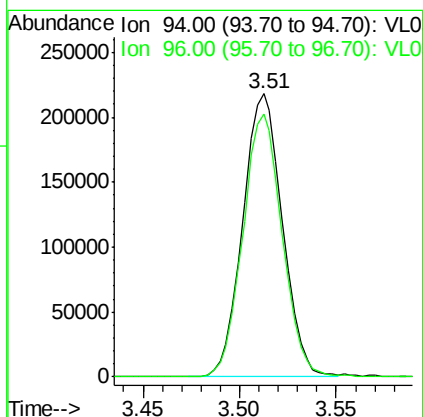
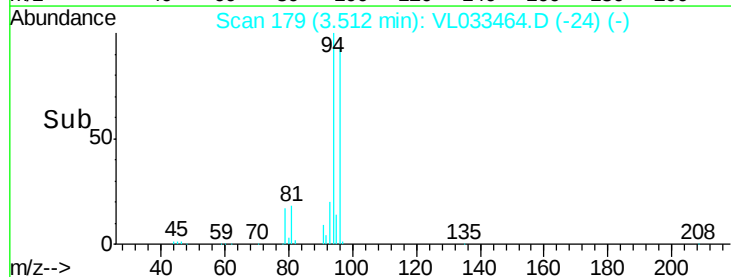
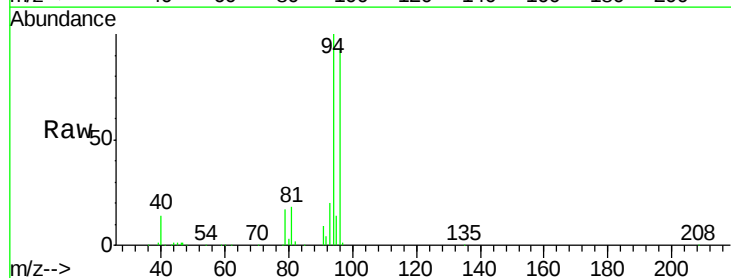
Acq: 27 Mar 2019 10:20

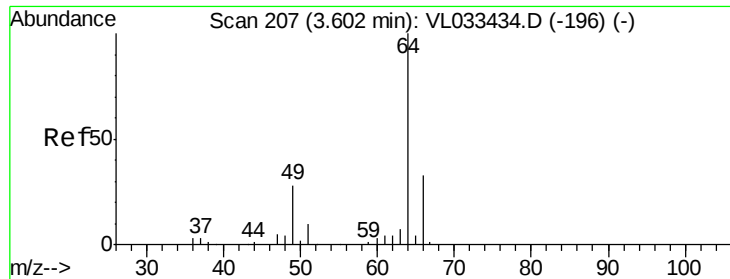
Tgt Ion: 94 Resp: 310886

Ion Ratio Lower Upper

94 100

96 92.8 70.2 105.2





#7

Chloroethane

Concen: 9.357 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 177032

Ion Ratio Lower Upper

64 100

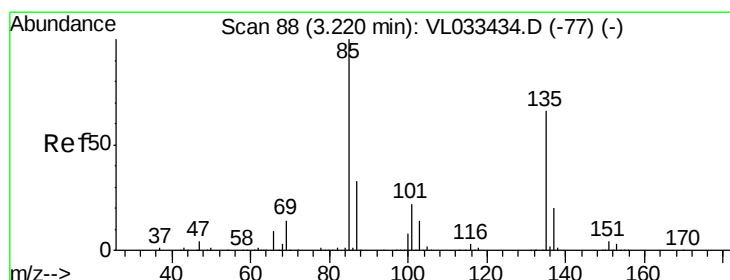
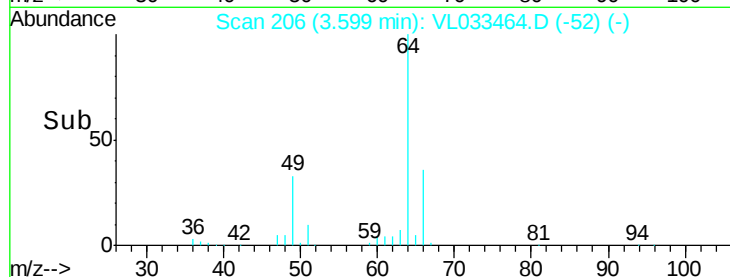
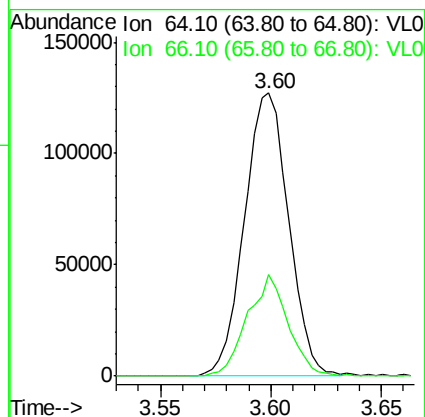
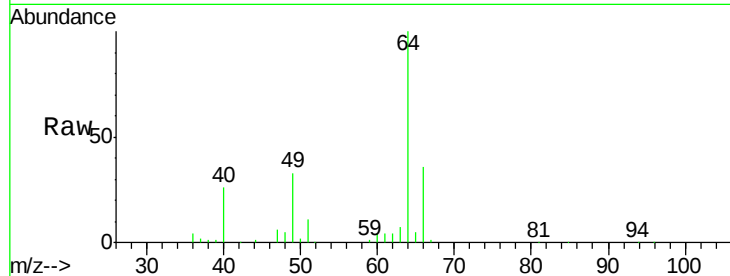
66 36.1 26.7 40.1

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.241 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033464.D

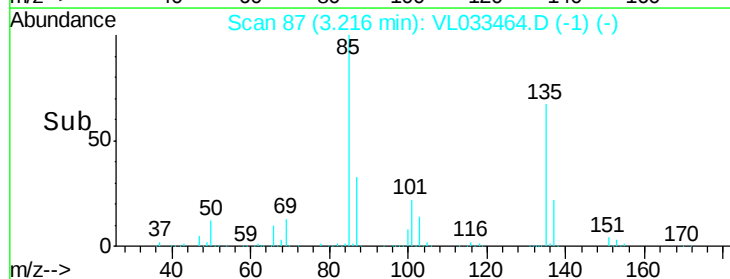
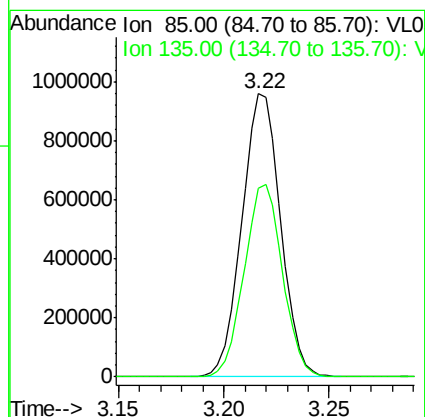
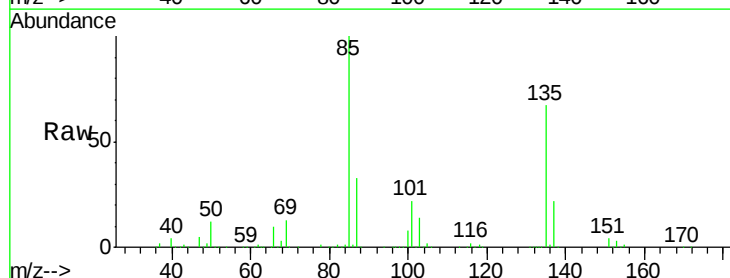
Acq: 27 Mar 2019 10:20

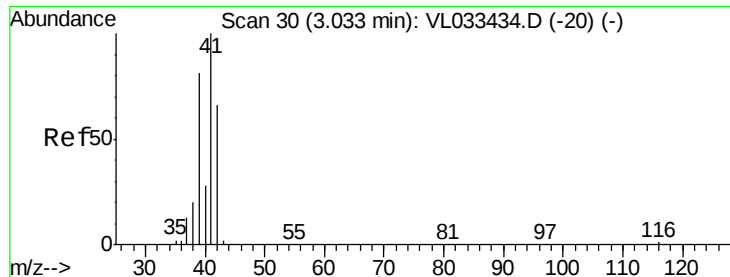
Tgt Ion: 85 Resp: 1219662

Ion Ratio Lower Upper

85 100

135 67.6 54.0 81.0





#9

Propene

Concen: 9.516 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 390759

Ion Ratio Lower Upper

41 100

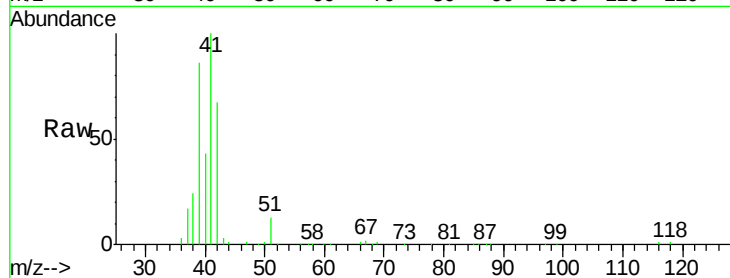
42 69.8 53.9 80.9

Manual Integrations

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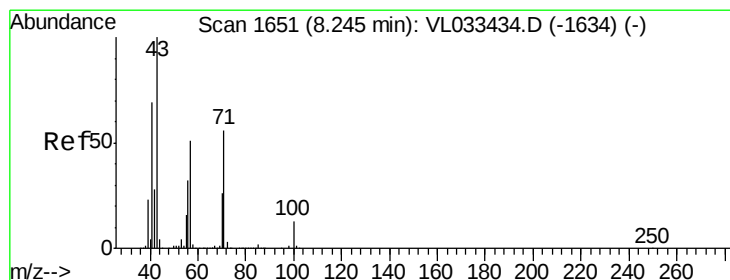
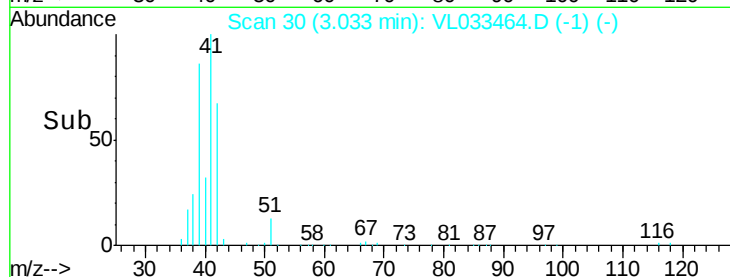
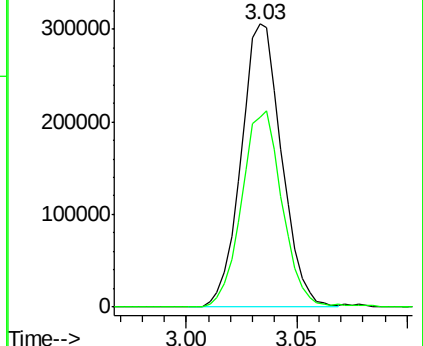
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.570 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033464.D

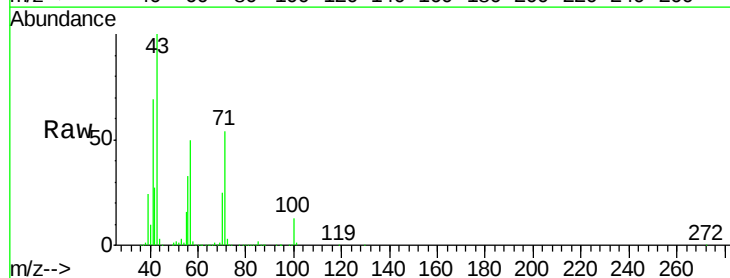
Acq: 27 Mar 2019 10:20

Tgt Ion: 43 Resp: 1050435

Ion Ratio Lower Upper

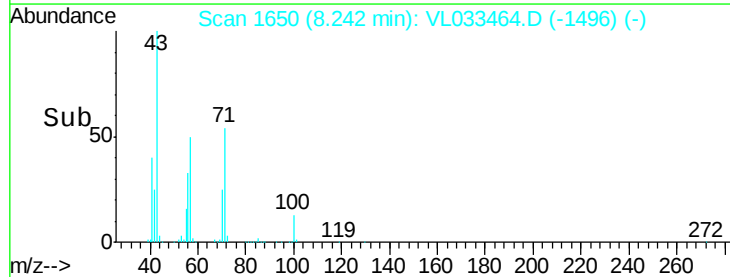
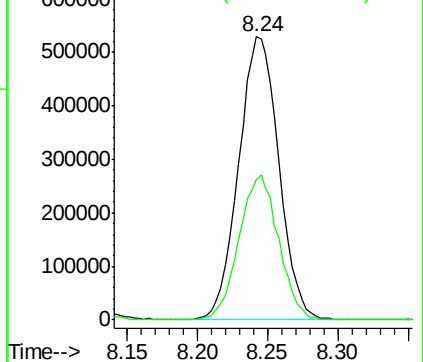
43 100

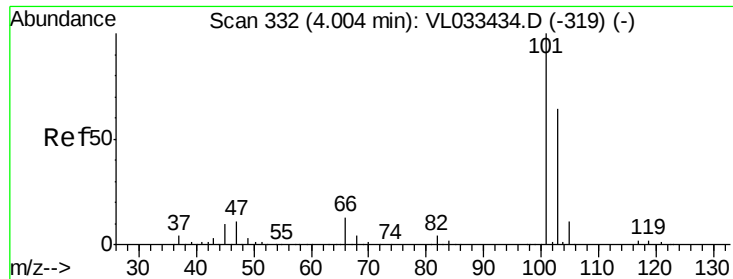
57 50.8 40.6 60.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





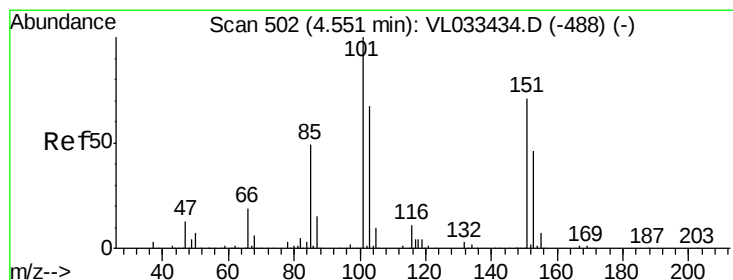
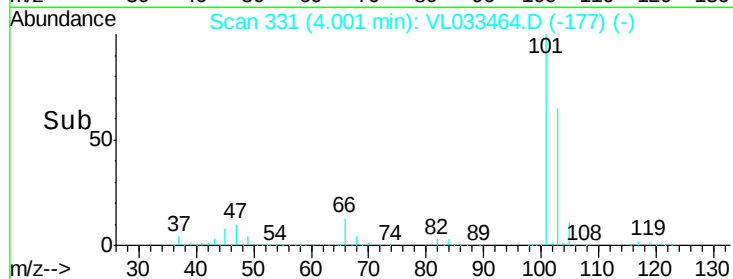
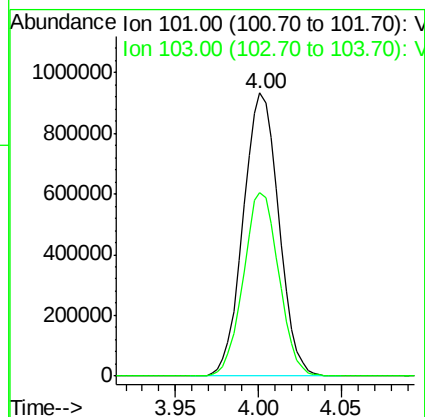
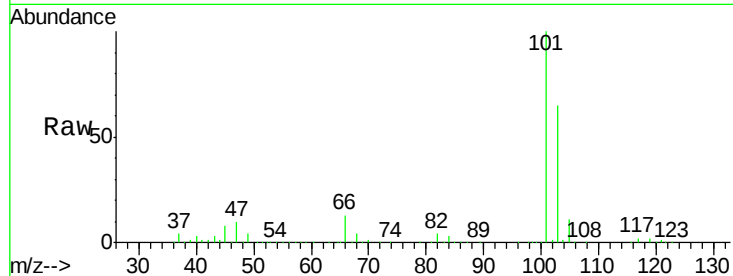
#11
 Trichlorofluoromethane
 Concen: 9.134 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1394375
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.3 76.9

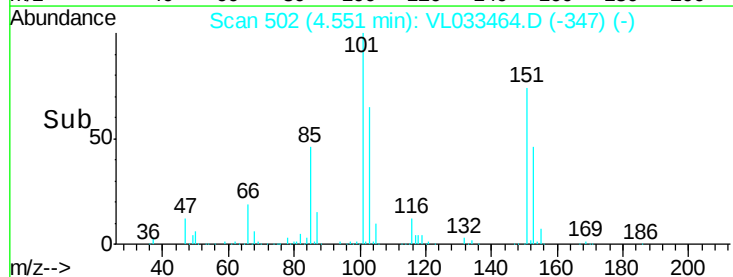
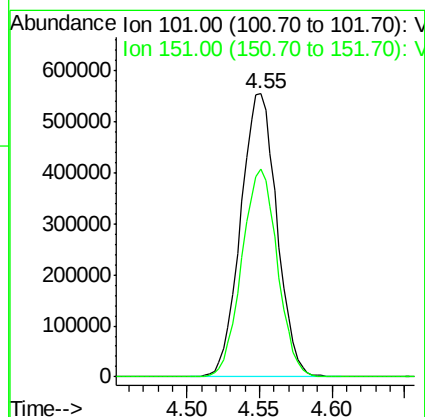
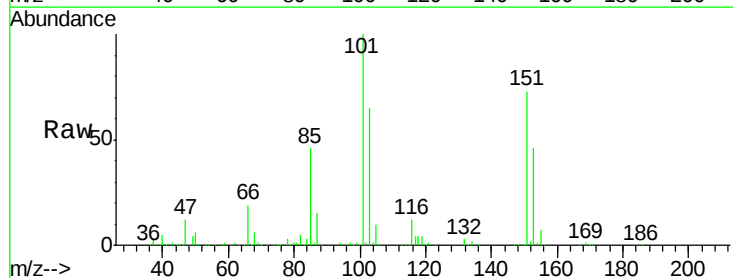
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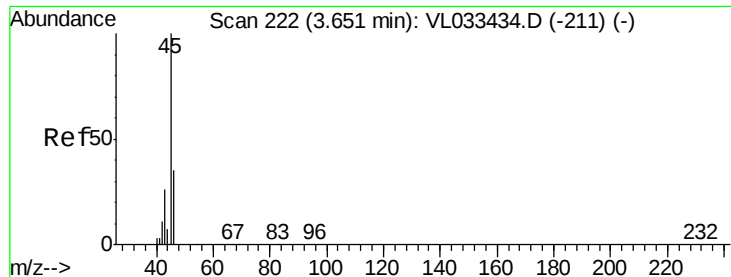
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.403 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion:101 Resp: 964184
 Ion Ratio Lower Upper
 101 100
 151 72.3 57.7 86.5





#13

Ethanol

Concen: 10.715 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 113860

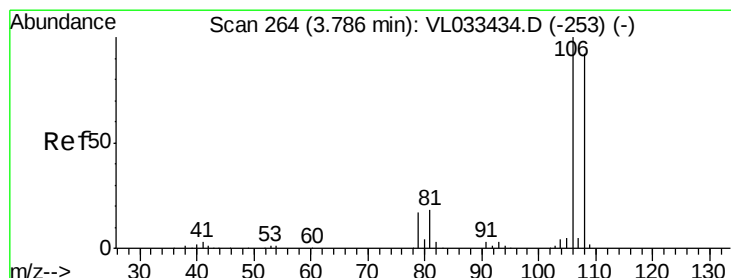
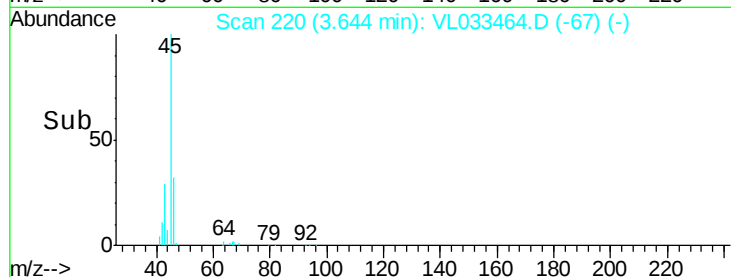
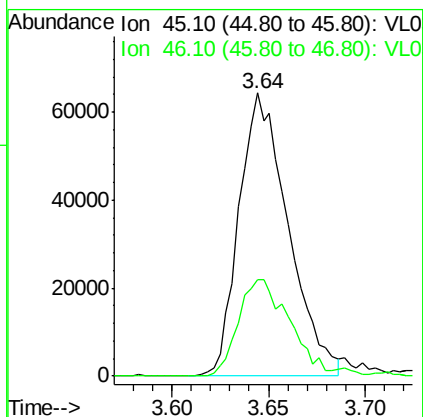
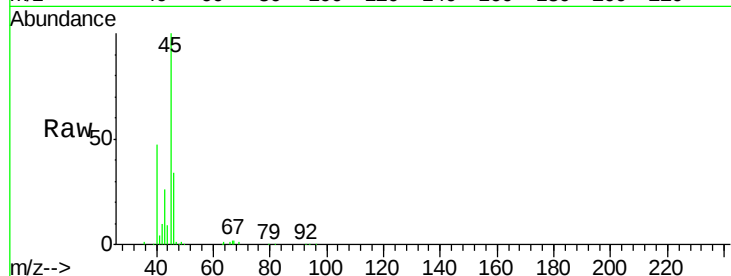
Ion Ratio Lower Upper

45 100

46 37.0 25.4 101.8

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#14

Bromoethene

Concen: 9.769 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

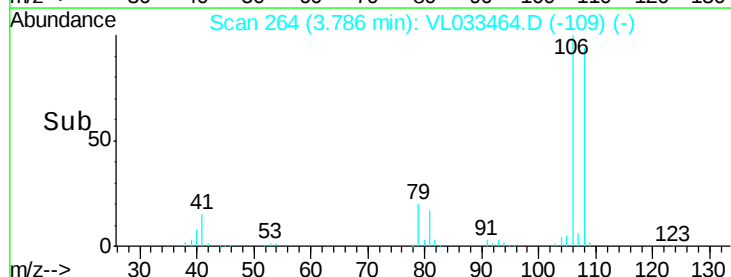
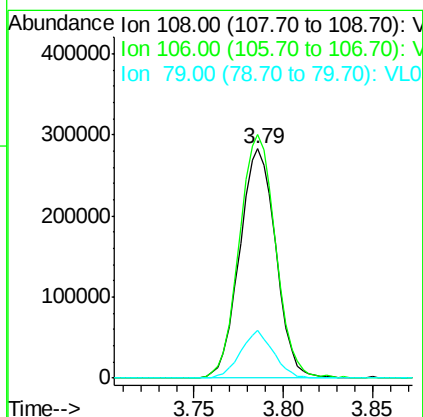
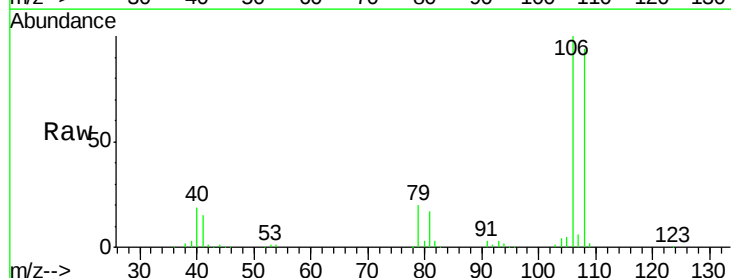
Tgt Ion: 108 Resp: 399520

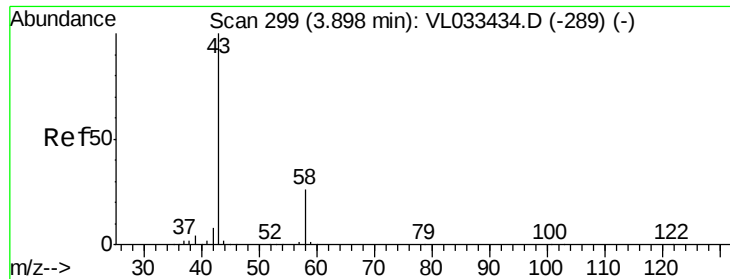
Ion Ratio Lower Upper

108 100

106 106.9 86.4 129.6

79 19.1 15.8 23.8





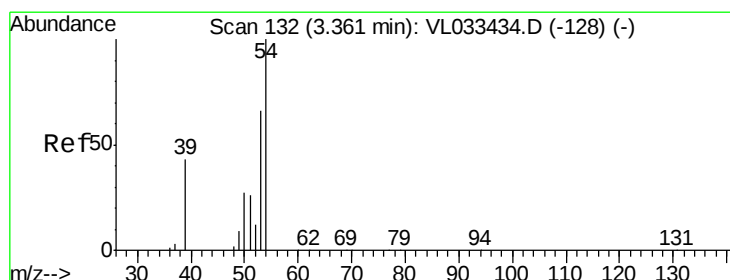
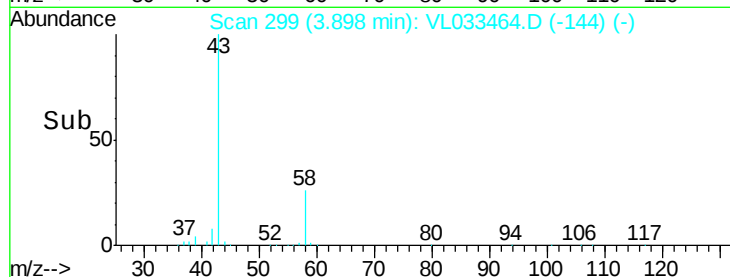
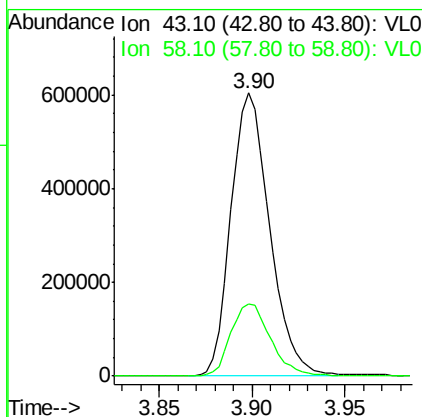
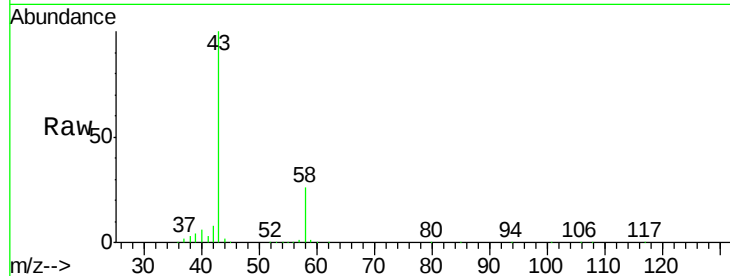
#15
Acetone
Concen: 8.590 ppbv
RT: 3.90 min Scan# 299
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 877254
Ion Ratio Lower Upper
43 100
58 26.4 20.5 30.7

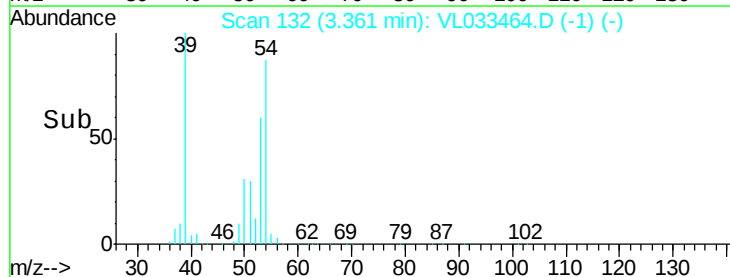
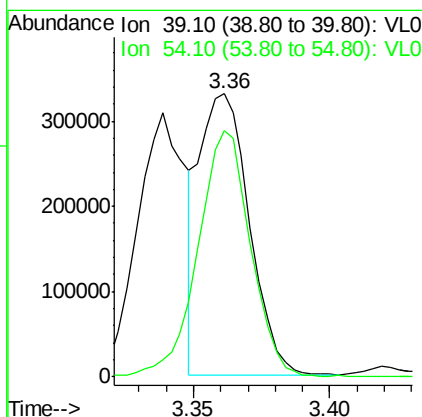
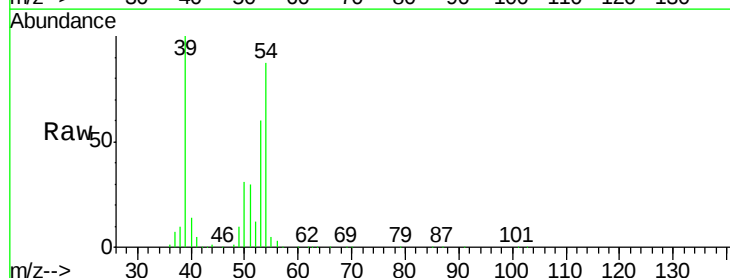
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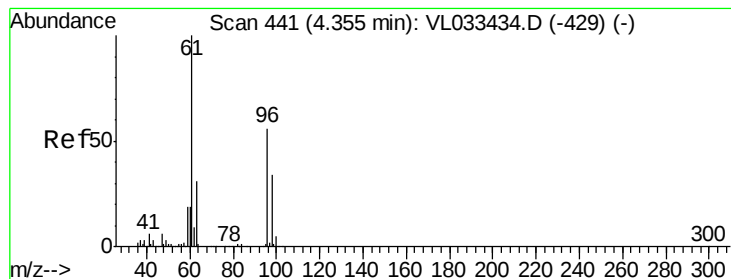
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#16
1,3-Butadiene
Concen: 10.257 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 39 Resp: 415468
Ion Ratio Lower Upper
39 100
54 93.8 69.4 104.2





#17

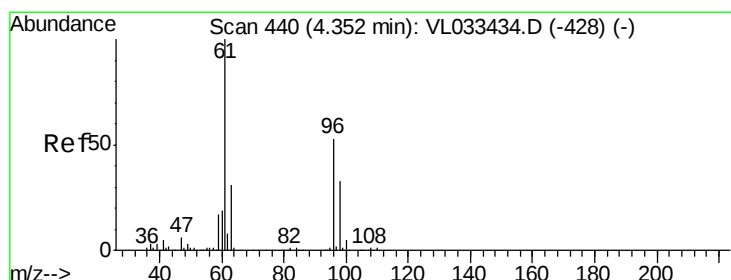
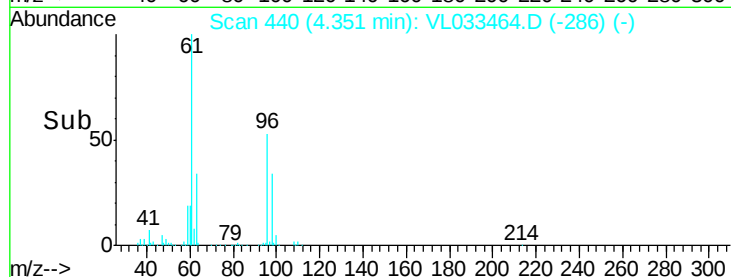
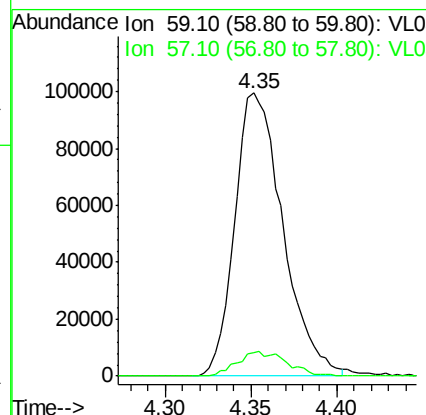
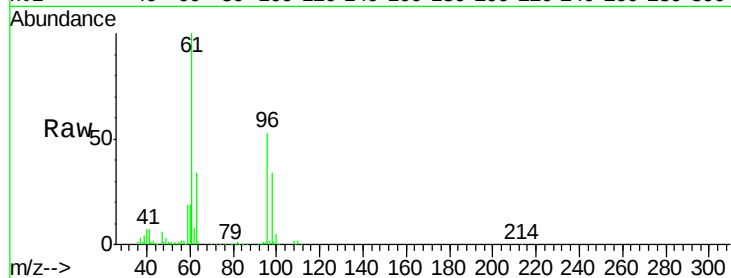
tert-Butyl alcohol
 Concen: 10.273 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.0	7.8	11.8

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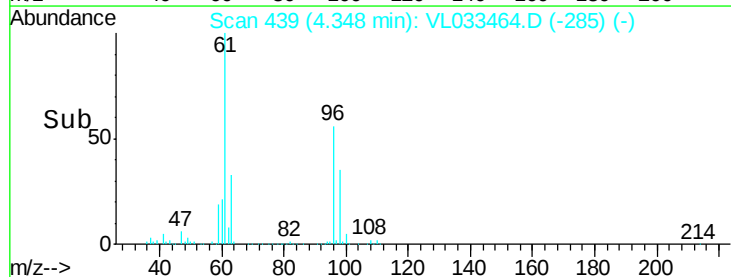
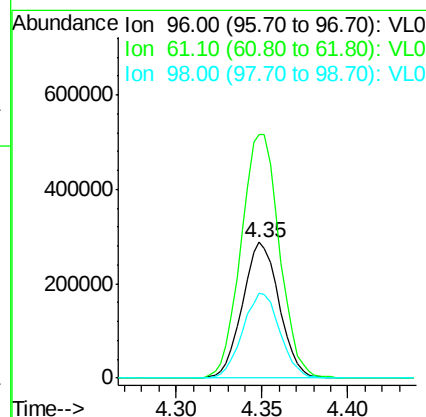
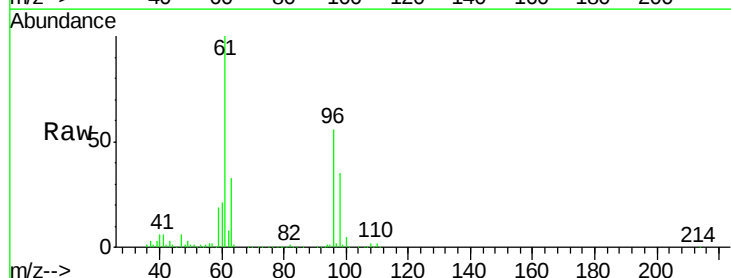
MMDadoda
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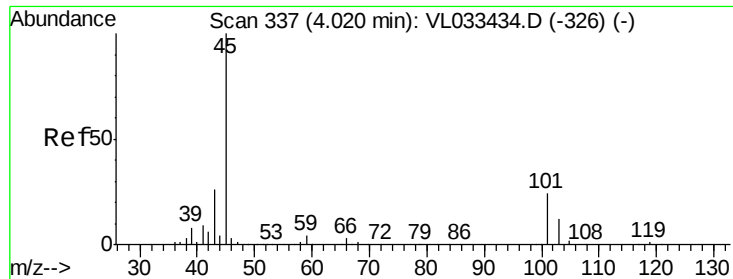


#18

1,1-Dichloroethene
 Concen: 9.700 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	178.9	149.8	224.6
98	62.1	48.7	73.1





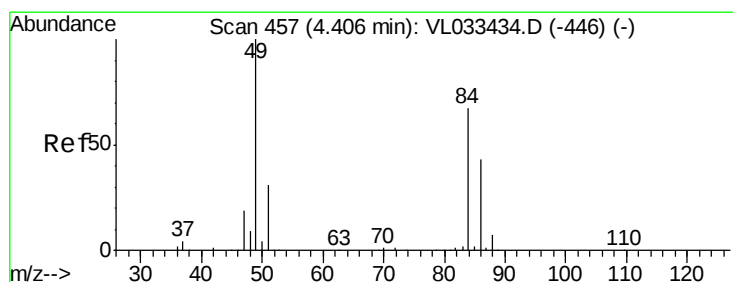
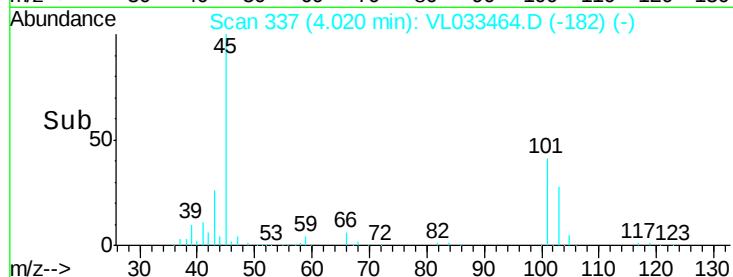
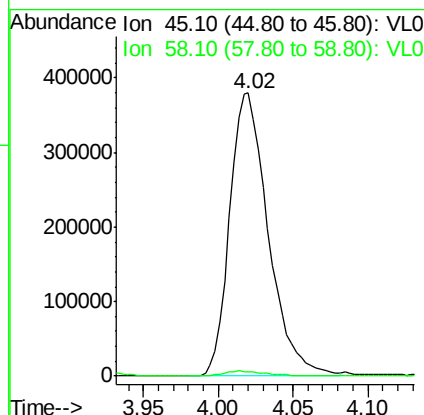
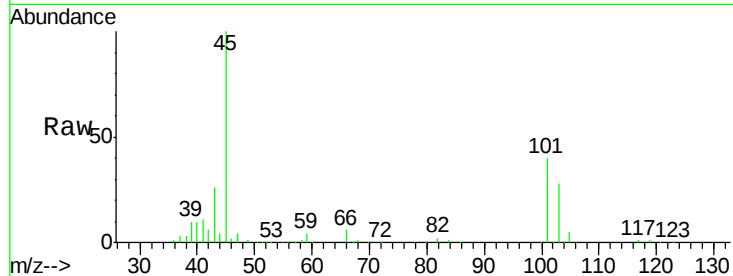
#19
Isopropyl Alcohol
Concen: 10.537 ppbv
RT: 4.02 min Scan# 337
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 680592
Ion Ratio Lower Upper
45 100
58 2.3 1.4 2.2#

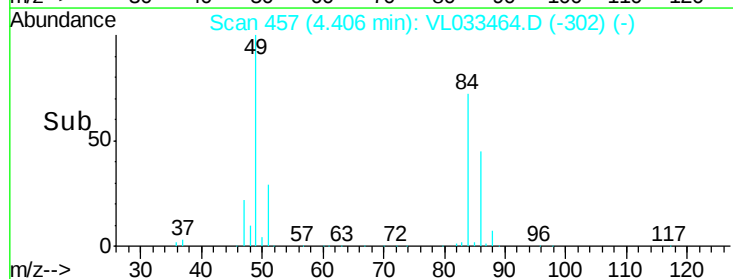
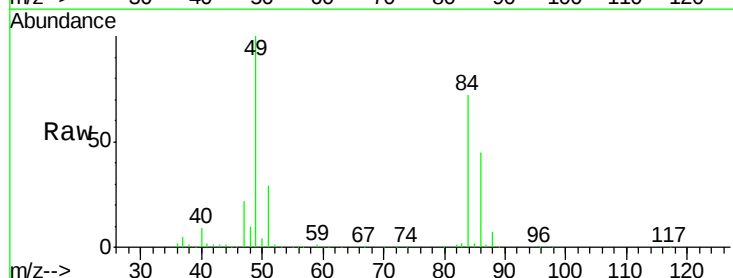
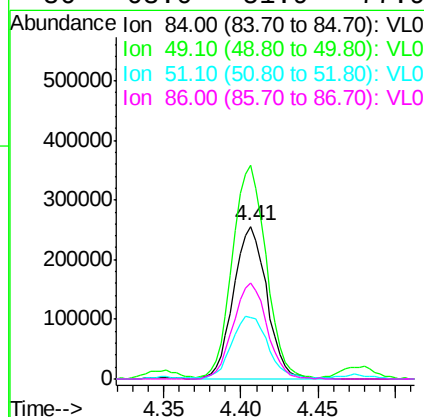
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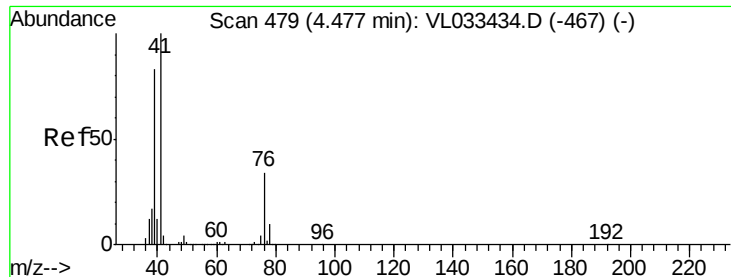
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#20
Methylene Chloride
Concen: 8.790 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 84 Resp: 381053
Ion Ratio Lower Upper
84 100
49 138.4 120.0 180.0
51 39.9 36.7 55.1
86 63.0 51.9 77.9





#21

Allvl Chloride

Concen: 9.790 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

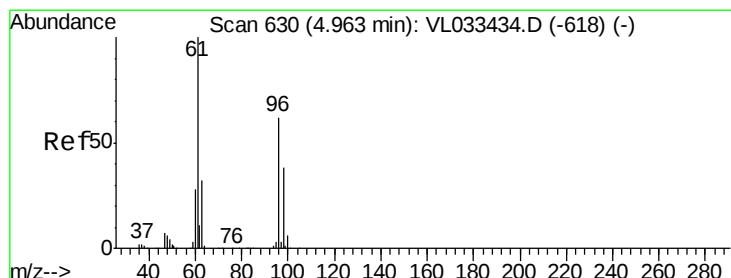
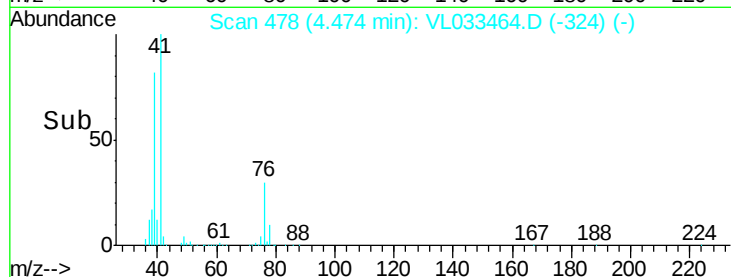
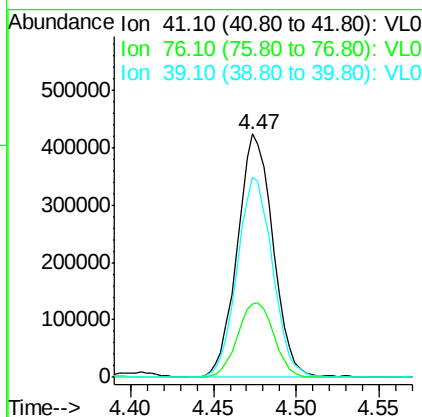
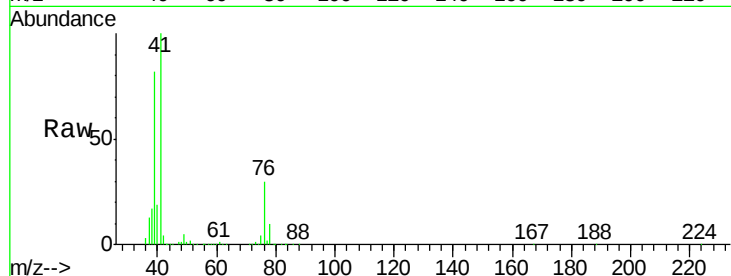
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	632020
Ion Ratio	Lower	Upper	
41	100		
76	31.5	25.4	38.2
39	82.2	65.3	97.9

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#22

trans-1,2-Dichloroethene

Concen: 9.525 ppbv

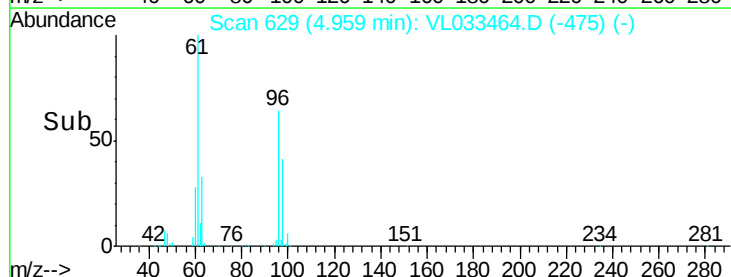
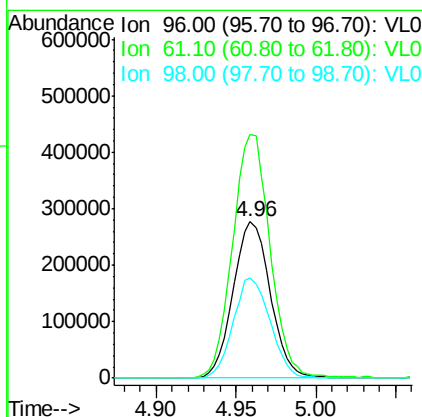
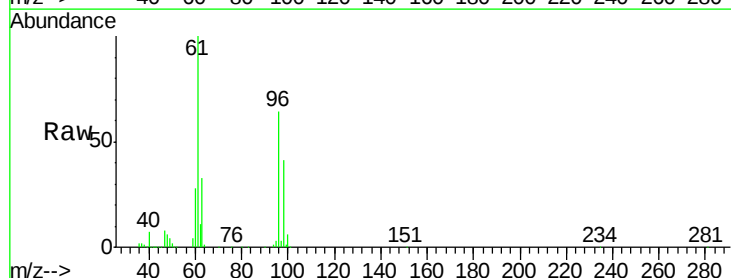
RT: 4.96 min Scan# 629

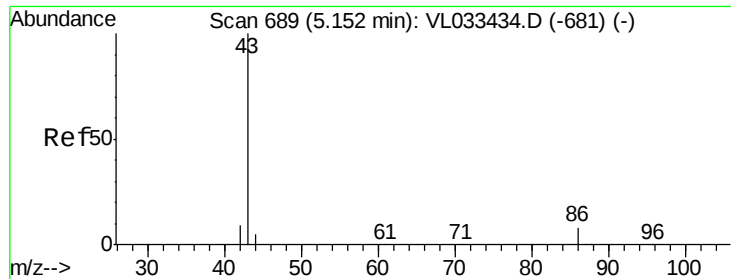
Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion:	96	Resp:	437673
Ion Ratio	Lower	Upper	
96	100		
61	155.9	128.9	193.3
98	63.8	49.5	74.3





#23

Vinyl Acetate

Concen: 10.033 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1458382

Ion Ratio Lower Upper

43 100

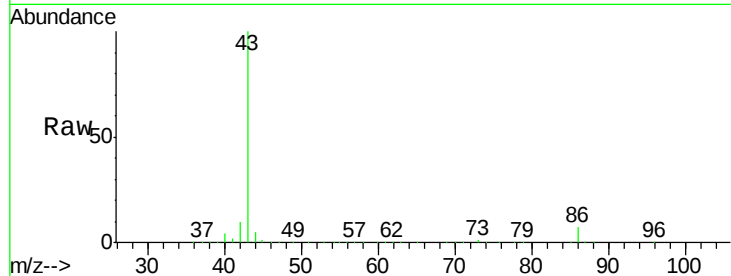
86 7.1 5.6 8.4

42 9.9 8.0 12.0

44 5.1 3.9 5.9

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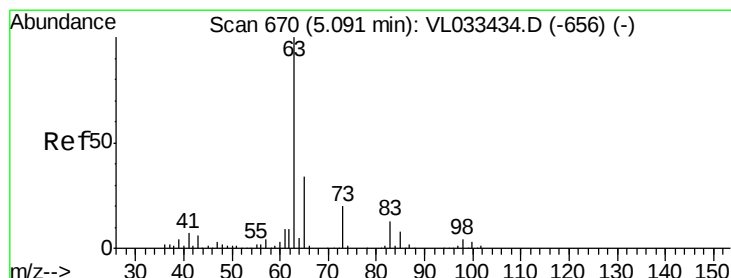
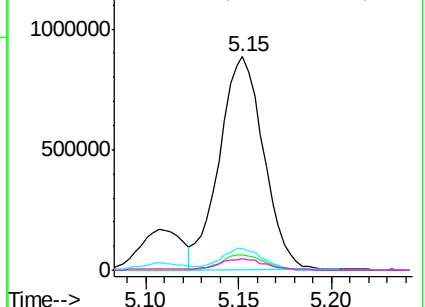
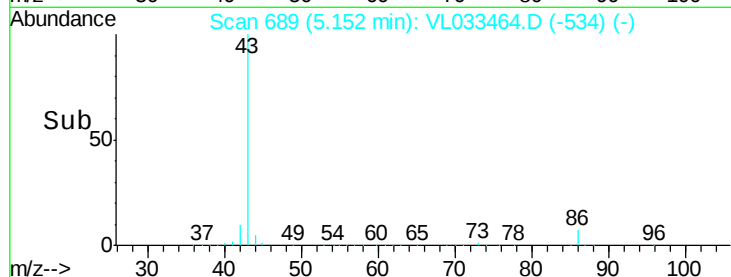


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 9.329 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

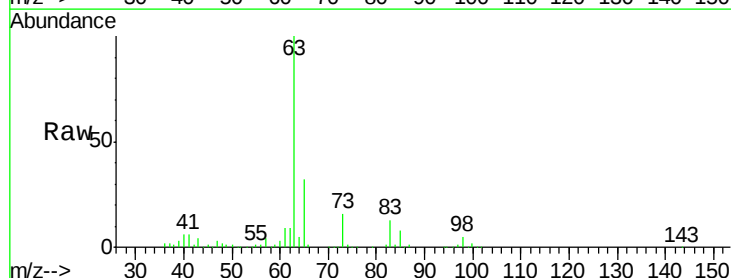
Tgt Ion: 63 Resp: 1030074

Ion Ratio Lower Upper

63 100

98 4.6 2.2 6.6

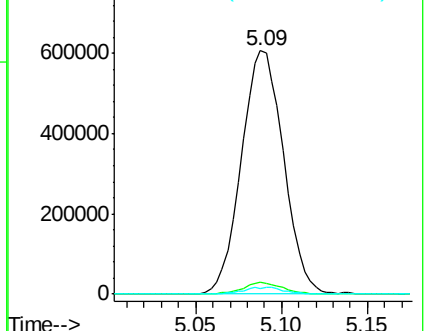
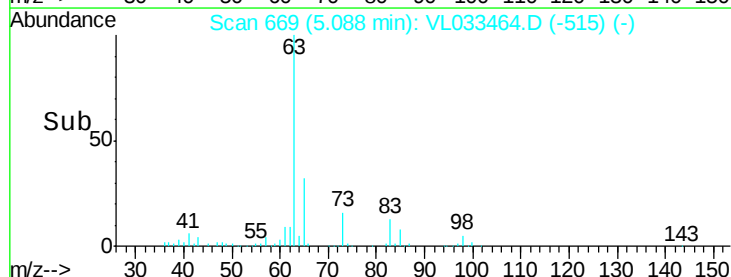
100 2.3 1.5 4.4

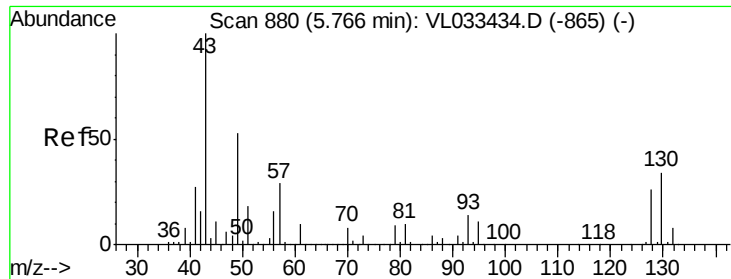


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





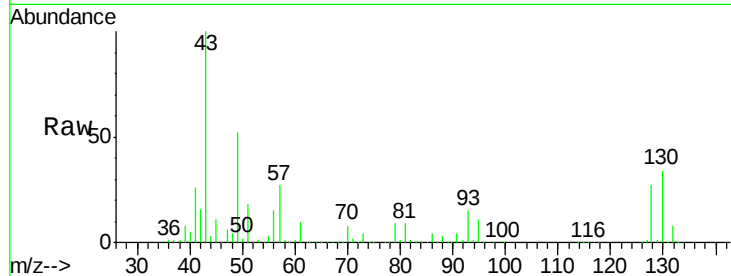
#25
Ethyl Acetate
Concen: 9.458 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

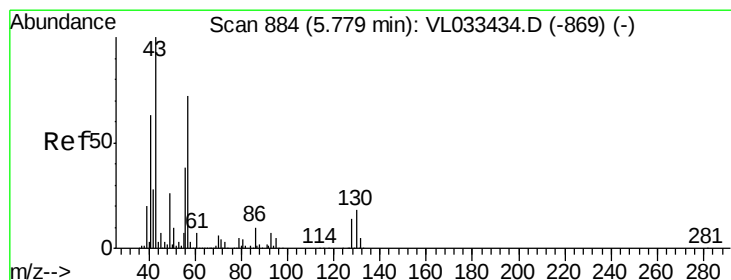
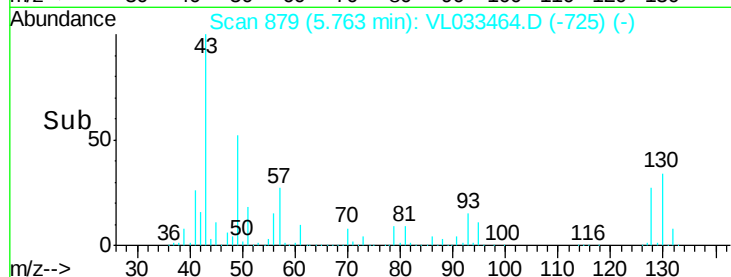
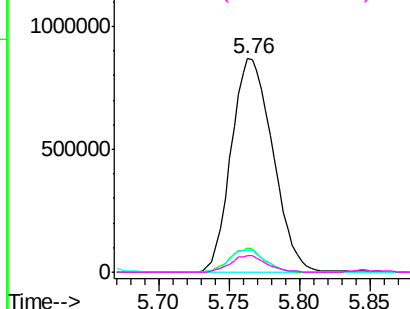
Tot Ion	43	Resp	1791936
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.1	7.3	10.9
70	6.9	5.6	8.4

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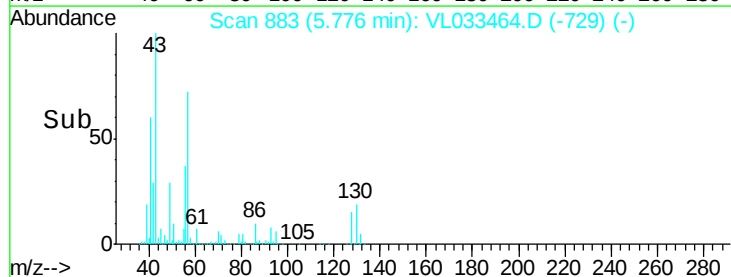
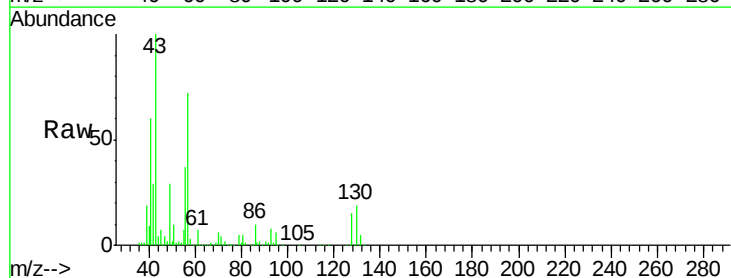
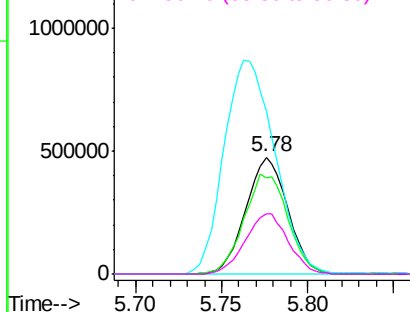
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

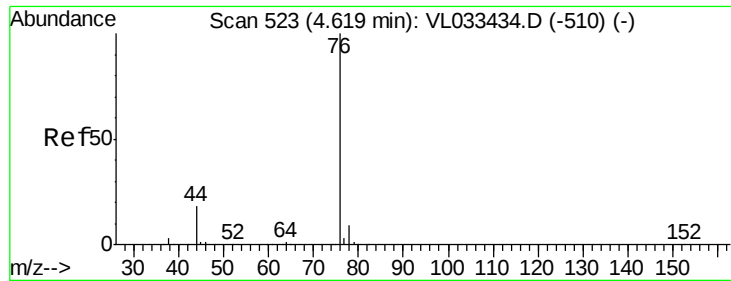


#26
Hexane
Concen: 9.509 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion	57	Resp	801111
Ion	Ratio	Lower	Upper
57	100		
41	89.8	70.7	106.1
43	223.7	182.6	274.0
56	53.1	42.0	63.0

Abundance Ion 57.10 (56.80 to 57.80): VL0
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: 10.556 ppbv

RT: 4.62 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1057549

Ion Ratio Lower Upper

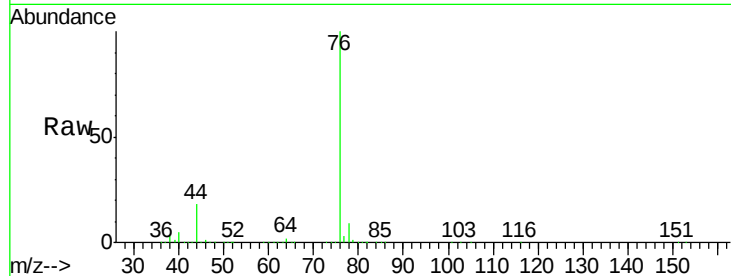
76 100

44 18.2 14.8 22.2

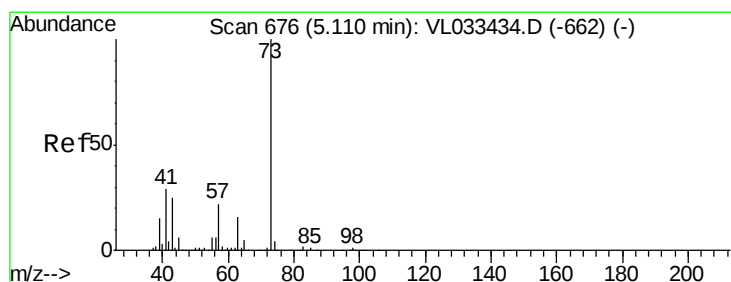
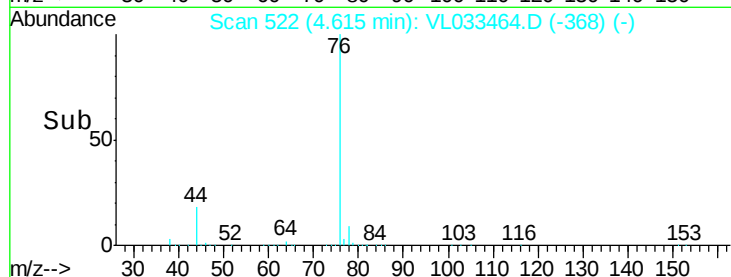
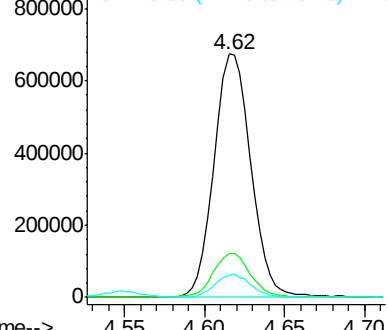
78 9.3 7.6 11.4

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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.839 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033464.D

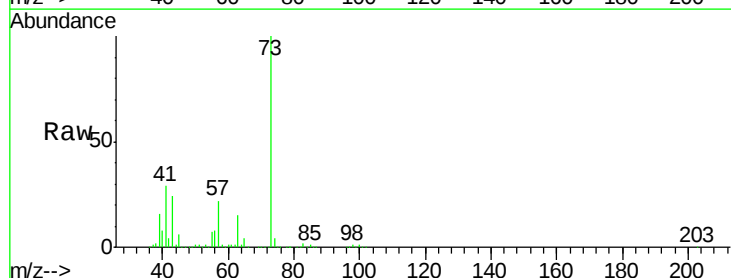
Acq: 27 Mar 2019 10:20

Tgt Ion: 73 Resp: 1193849

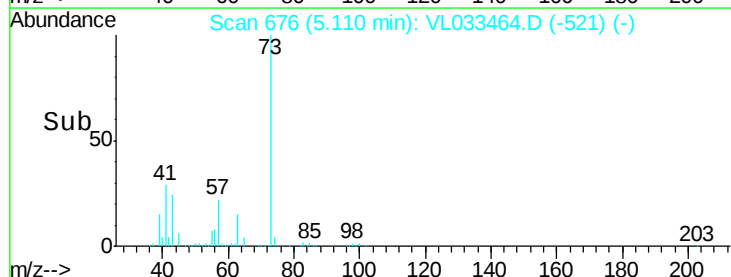
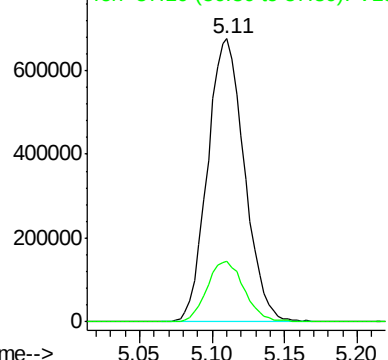
Ion Ratio Lower Upper

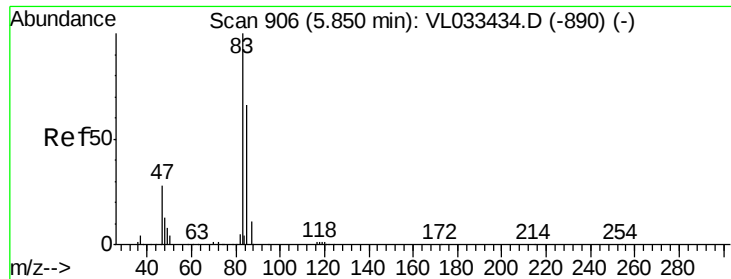
73 100

57 21.8 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.371 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1353297

Ion Ratio Lower Upper

83 100

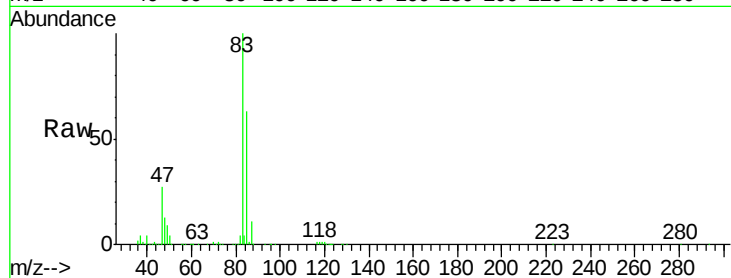
85 63.3 52.6 79.0

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

800000

600000

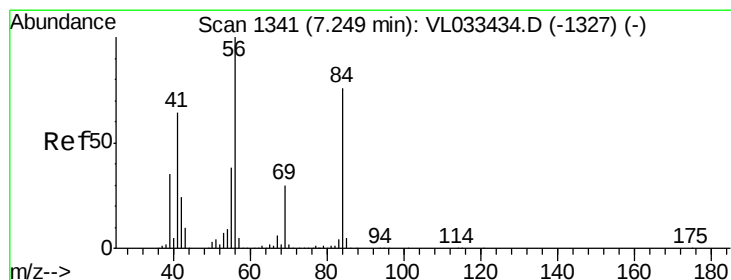
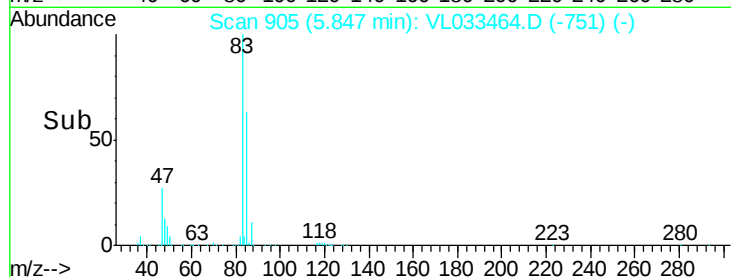
400000

200000

0

5.75 5.80 5.85 5.90

Time-->



#30

Cyclohexane

Concen: 10.071 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

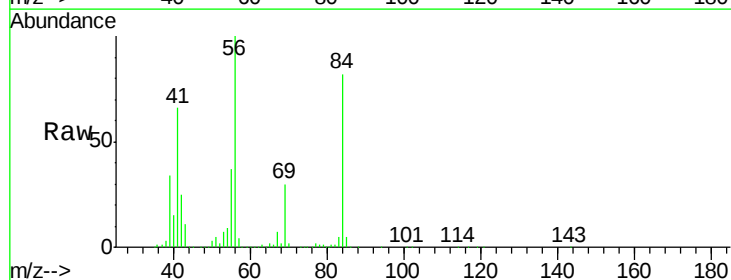
Tgt Ion: 84 Resp: 671174

Ion Ratio Lower Upper

84 100

56 135.5 109.7 164.5

41 85.9 68.2 102.2



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

500000

400000

300000

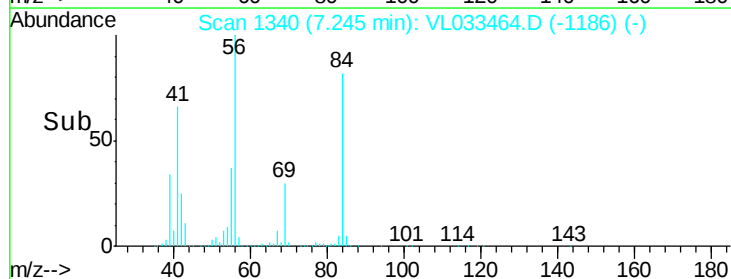
200000

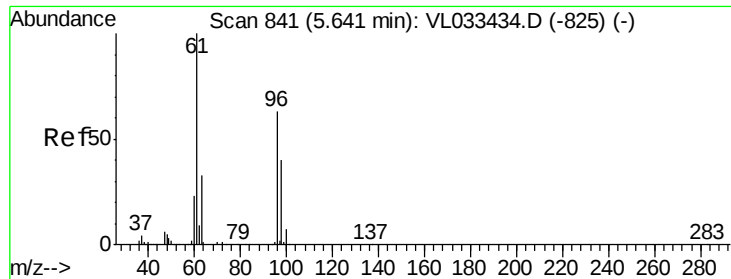
100000

0

7.15 7.20 7.25 7.30

Time-->





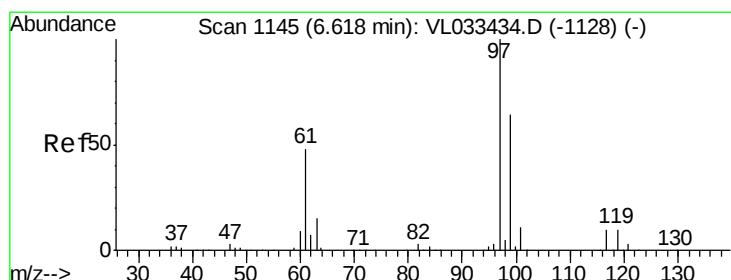
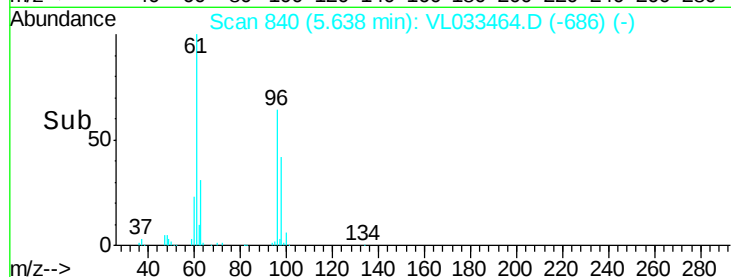
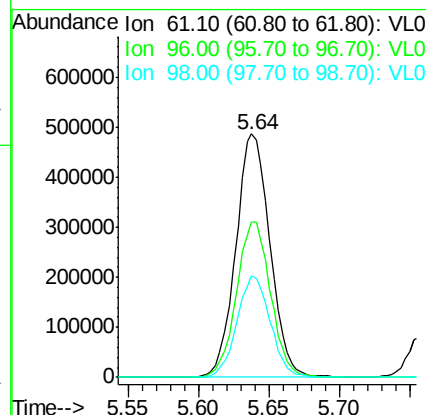
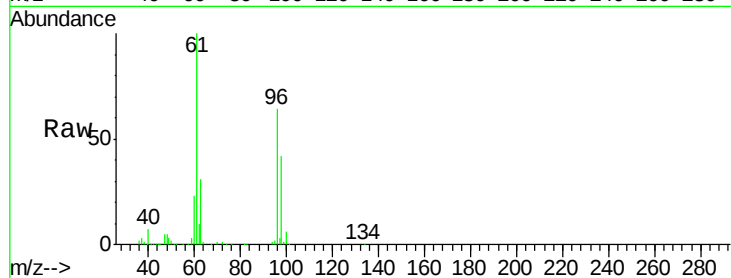
#31
 cis-1,2-Dichloroethene
 Concen: 9.870 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.7	50.6	76.0
98	41.6	32.2	48.2

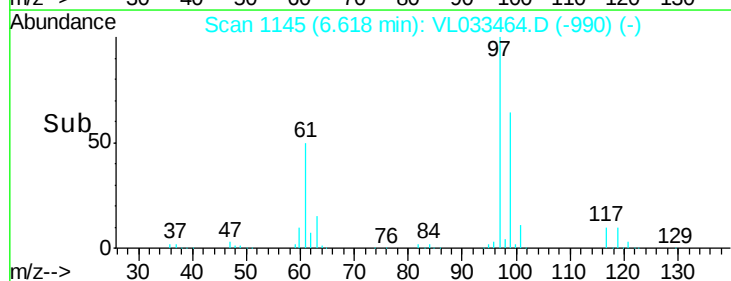
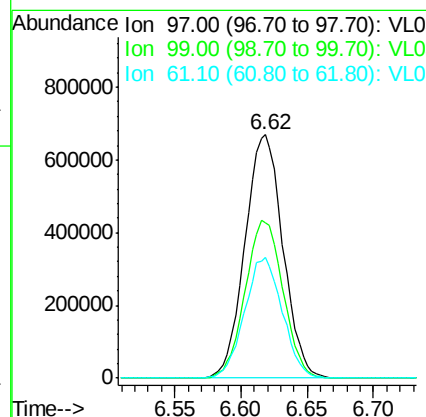
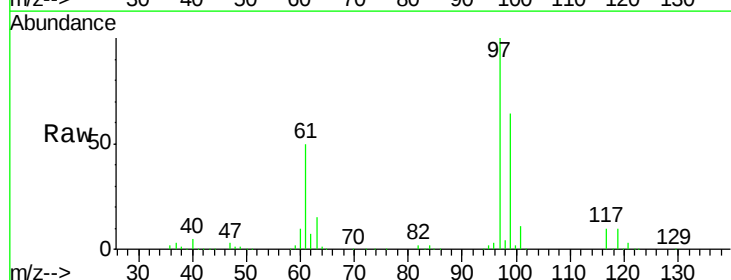
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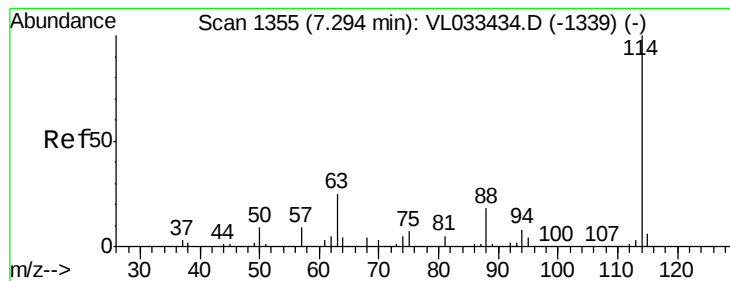
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#32
 1,1,1-Trichloroethane
 Concen: 9.655 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.5	77.3
61	49.5	38.8	58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:114 Resp: 1977141

Ion Ratio Lower Upper

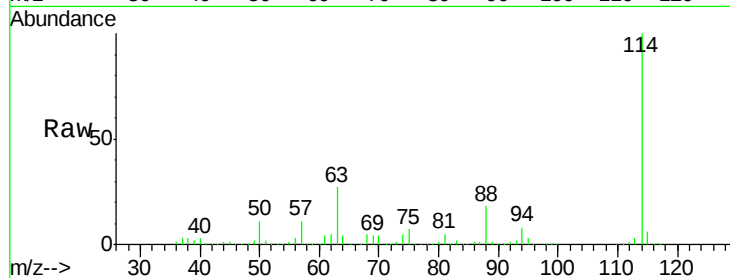
114 100

63 26.7 21.5 32.3

88 18.0 14.5 21.7

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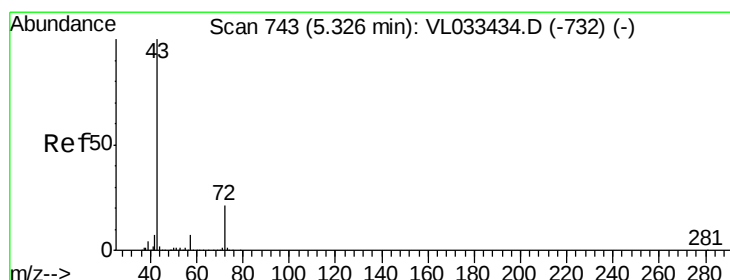
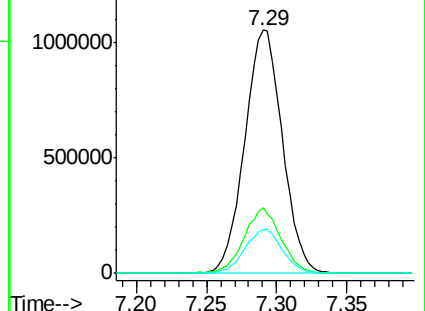
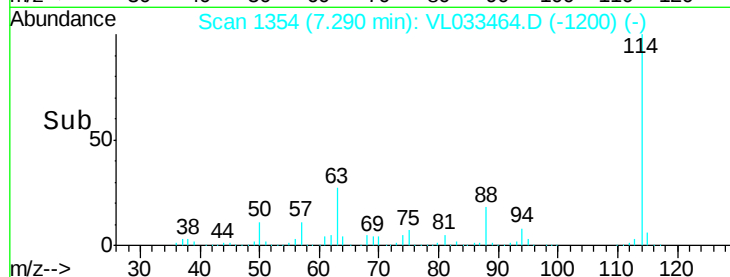
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.687 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033464.D

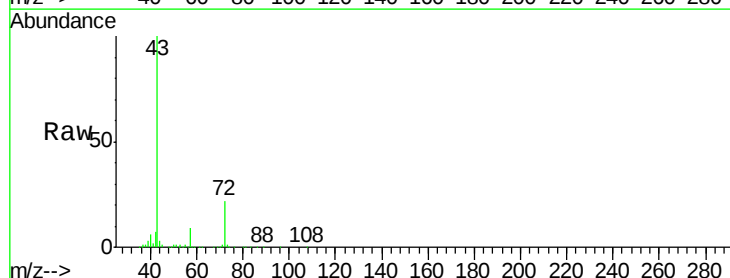
Acq: 27 Mar 2019 10:20

Tgt Ion: 43 Resp: 1150644

Ion Ratio Lower Upper

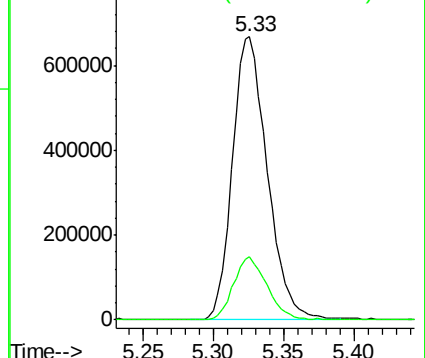
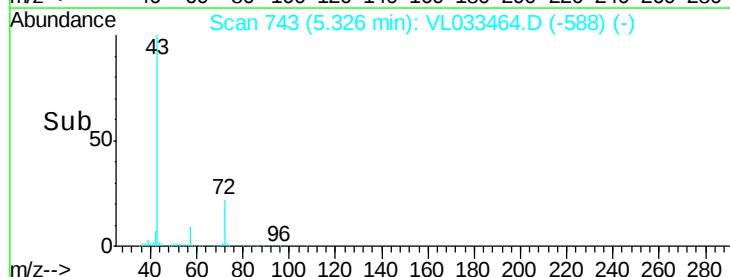
43 100

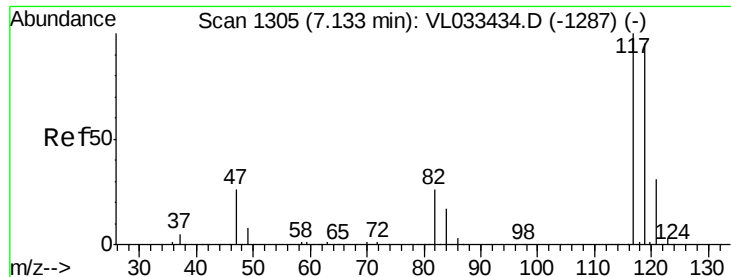
72 21.7 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





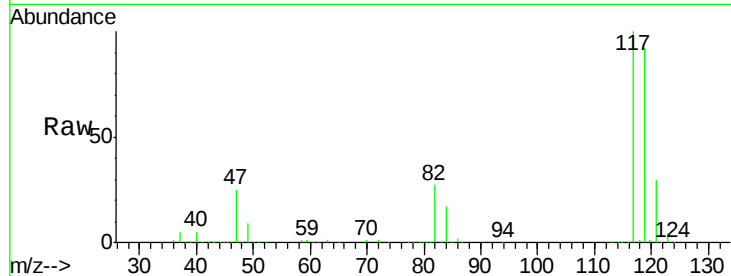
#35
Carbon Tetrachloride
Concen: 10.302 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

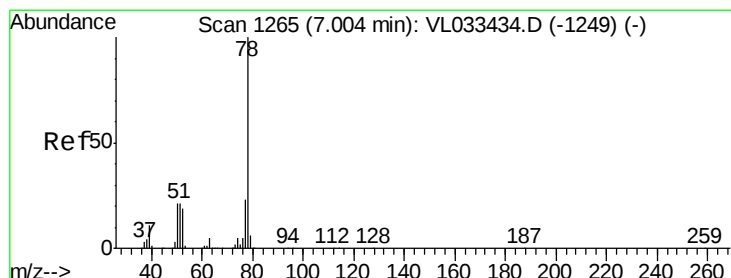
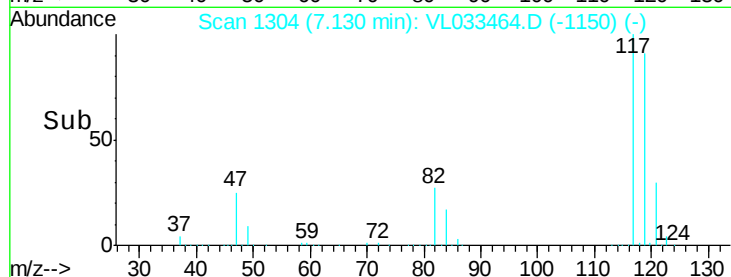
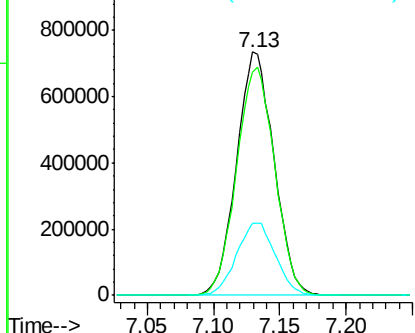
Tot Ion:117 Resp: 1442742
Ion Ratio Lower Upper
117 100
119 91.5 75.8 113.8
121 29.7 24.7 37.1

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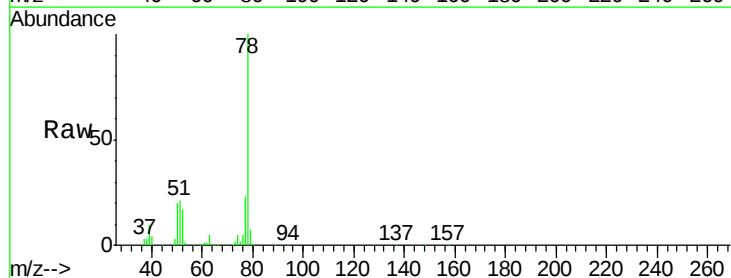


Abundance Ion 117.00 (116.70 to 117.70): V
1000000 Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

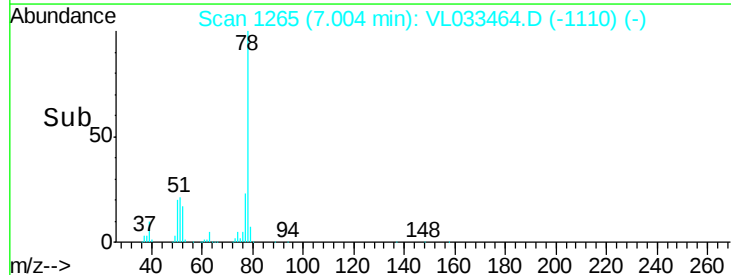
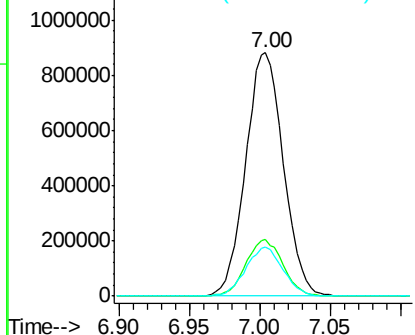


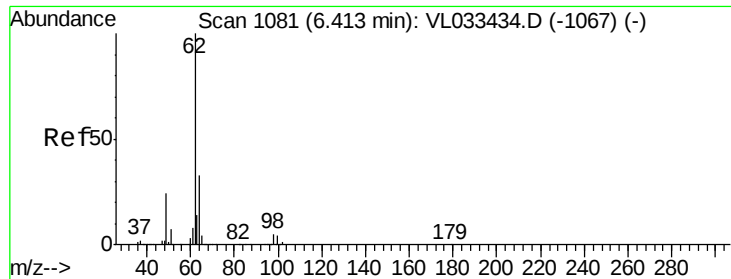
#36
Benzene
Concen: 9.973 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 78 Resp: 1654521
Ion Ratio Lower Upper
78 100
77 23.1 18.1 27.1
50 20.2 16.7 25.1



Abundance Ion 78.10 (77.80 to 78.80): VL0
1200000 Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





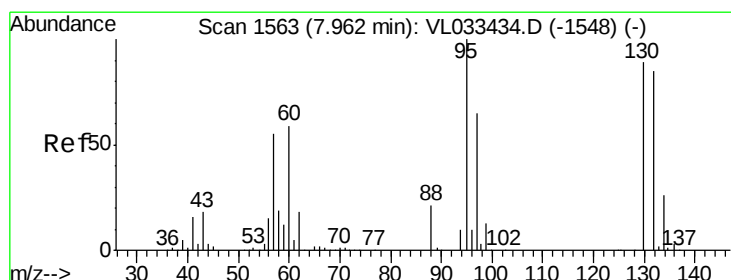
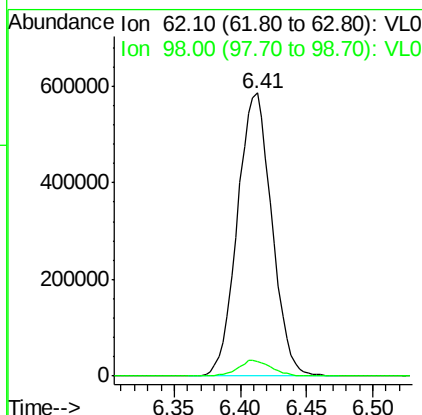
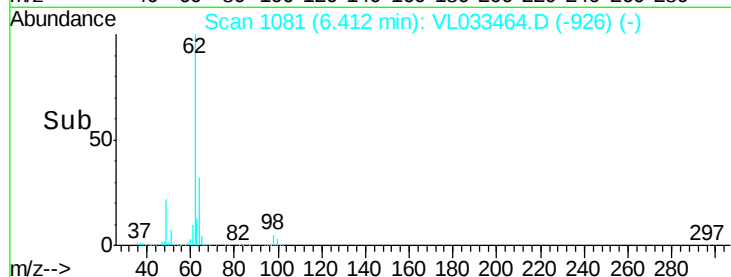
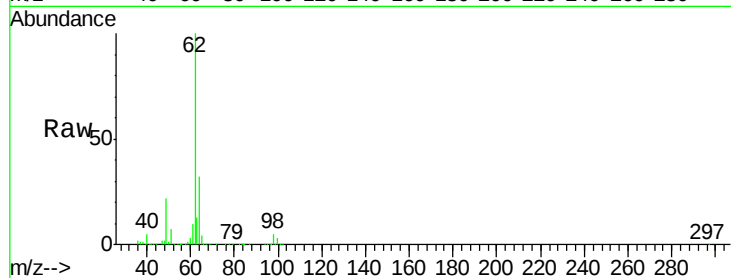
#37
 1,2-Dichloroethane
 Concen: 9.489 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1055155
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.4 6.6

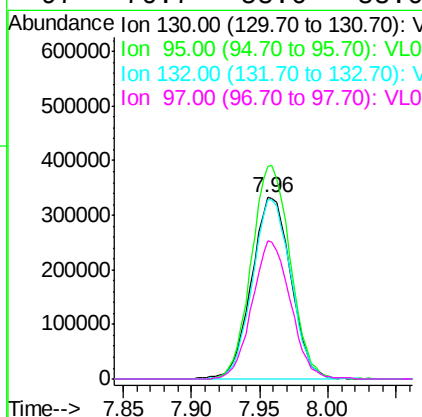
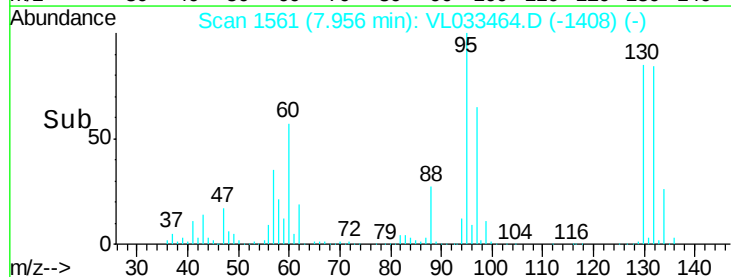
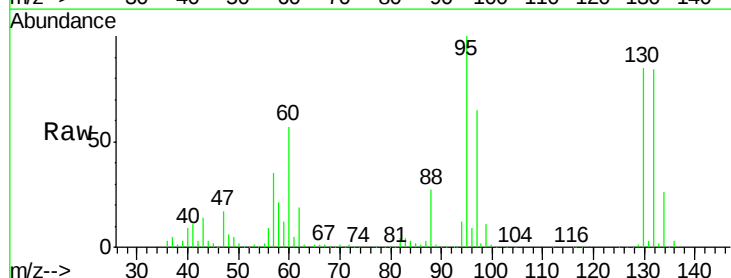
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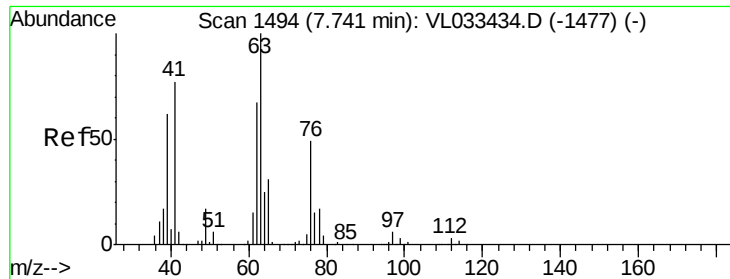
MMDadoda
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#38
 Trichloroethene
 Concen: 10.593 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion: 130 Resp: 661381
 Ion Ratio Lower Upper
 130 100
 95 117.4 89.8 134.8
 132 98.8 76.6 115.0
 97 76.7 58.6 88.0





#39

1,2-Dichloropropane

Concen: 9.570 ppbv

RT: 7.73 min Scan# 1491

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

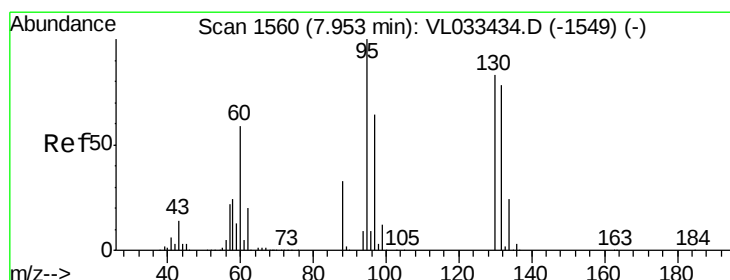
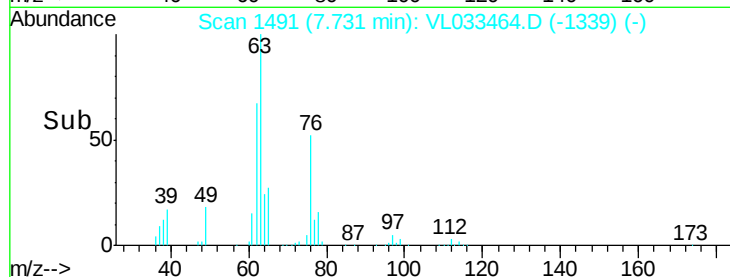
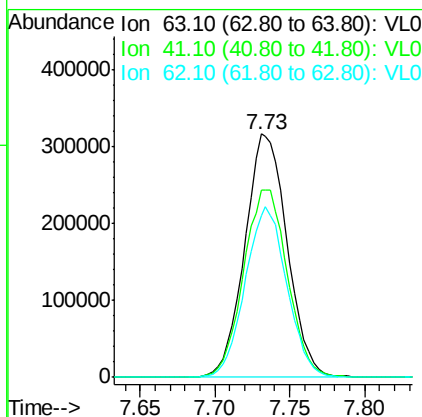
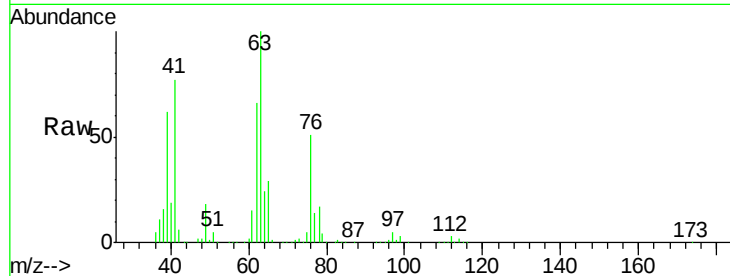
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	621941
Ion	Ratio	Lower	Upper
63	100		
41	76.6	61.2	91.8
62	66.3	54.0	81.0

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#40

1,4-Dioxane

Concen: 10.745 ppbv m

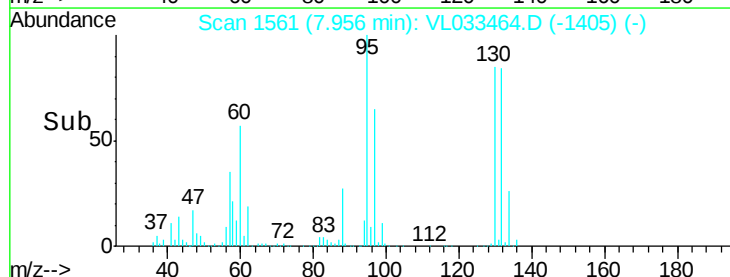
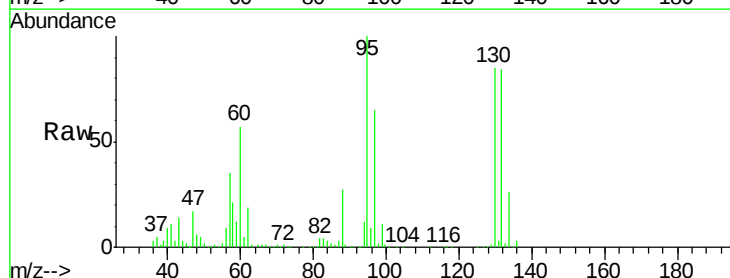
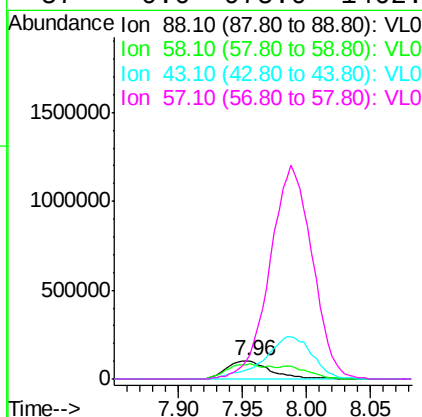
RT: 7.96 min Scan# 1561

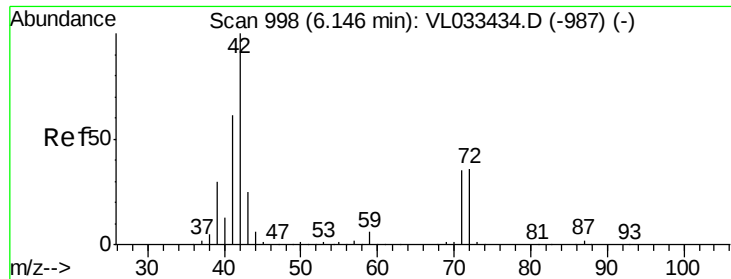
Delta R.T. 0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion:	88	Resp:	249059
Ion	Ratio	Lower	Upper
88	100		
58	0.0	105.6	158.4#
43	0.0	216.7	325.1#
57	0.0	975.0	1462.4#





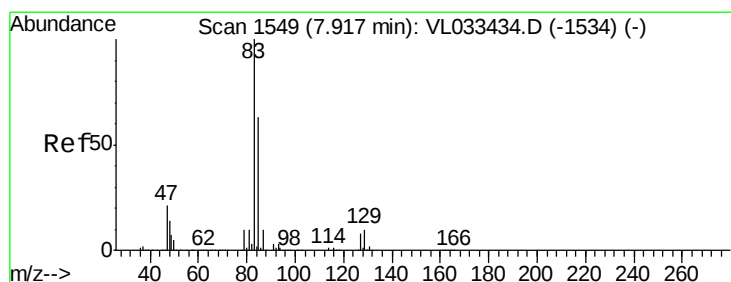
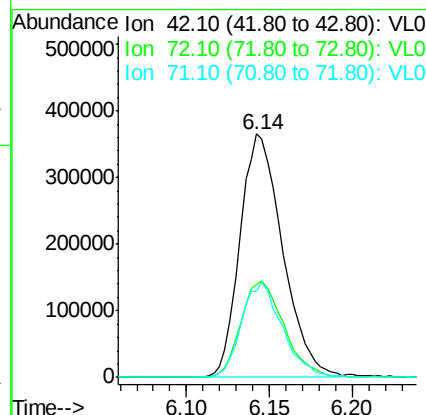
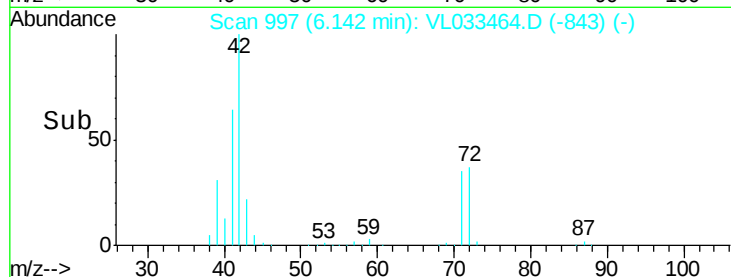
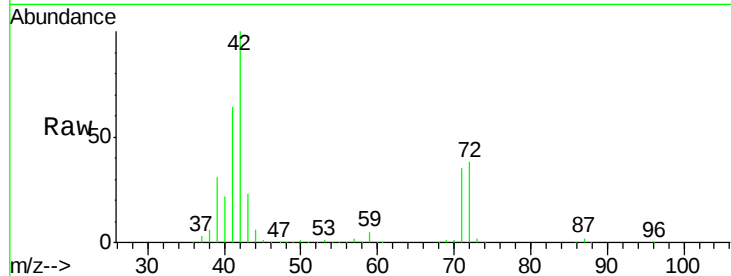
#41
Tetrahydrofuran
Concen: 10.033 ppbv
RT: 6.14 min Scan# 997
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.1	30.2	45.2
71	37.6	29.4	44.2

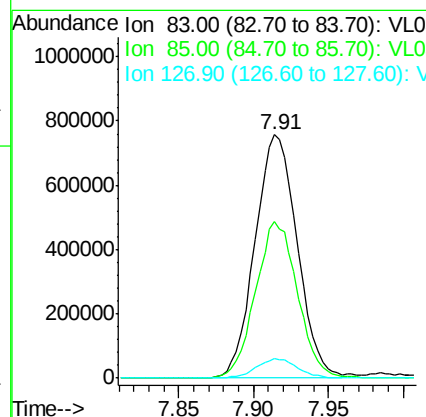
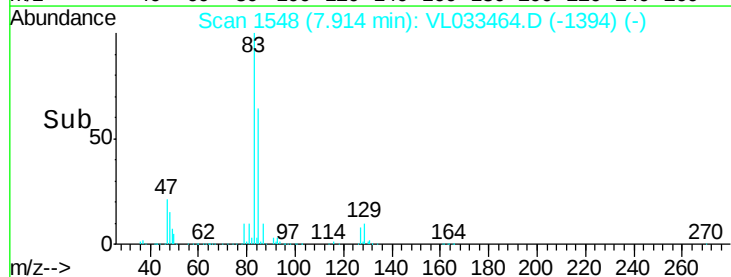
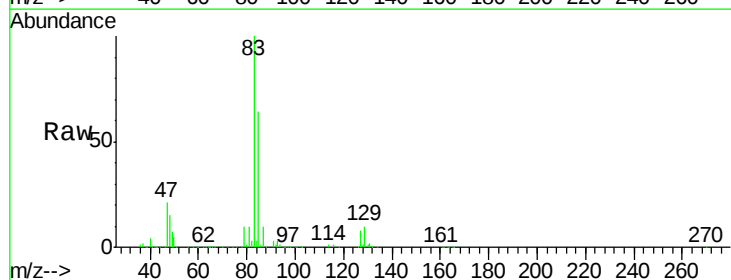
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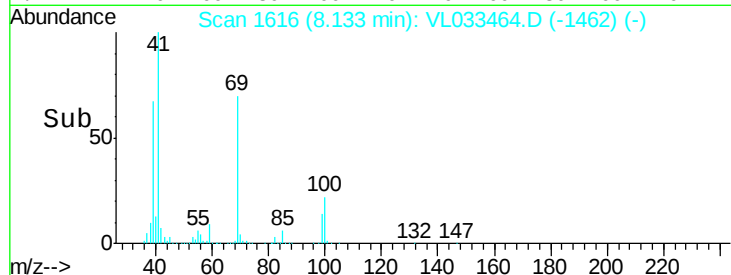
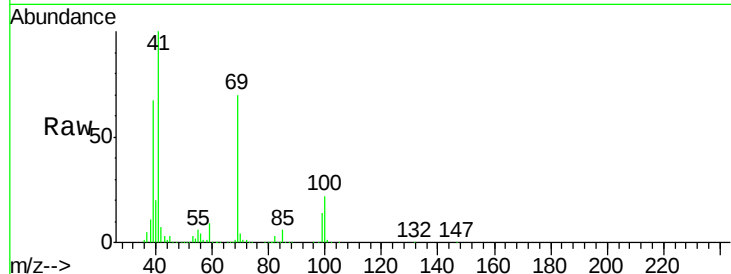
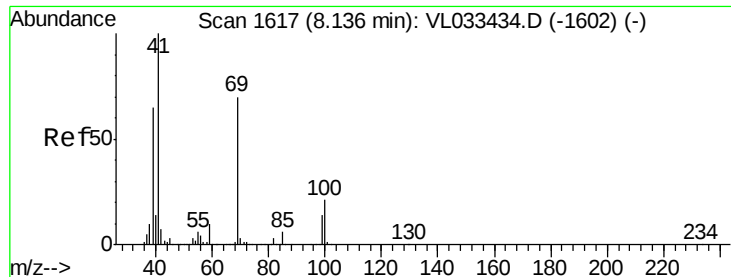
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#42
Bromodichloromethane
Concen: 9.793 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.7	76.1
127	7.8	6.6	9.8





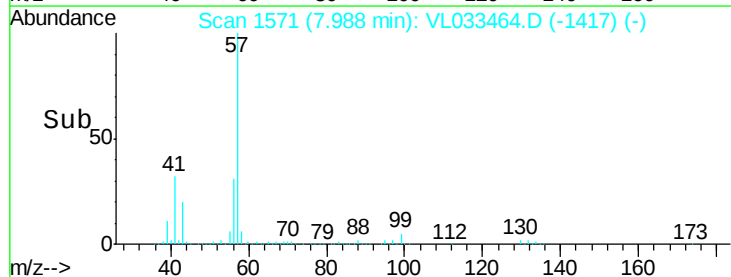
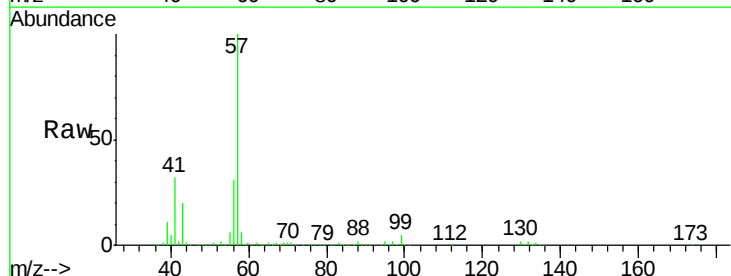
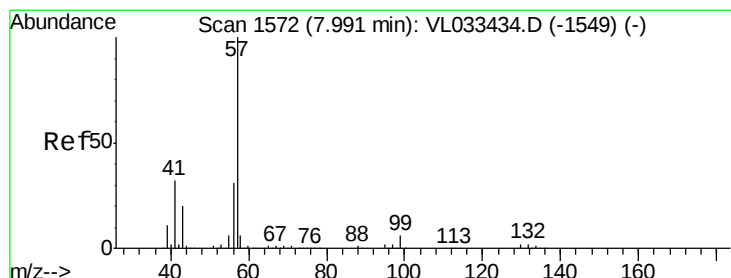
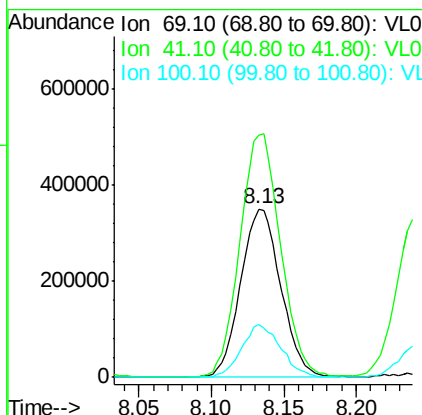
#43
Methvl Methacrvlate
Concen: 10.036 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tot Ion: 69 Resp: 676007
Ion Ratio Lower Upper
69 100
41 146.7 116.6 174.8
100 30.7 24.4 36.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

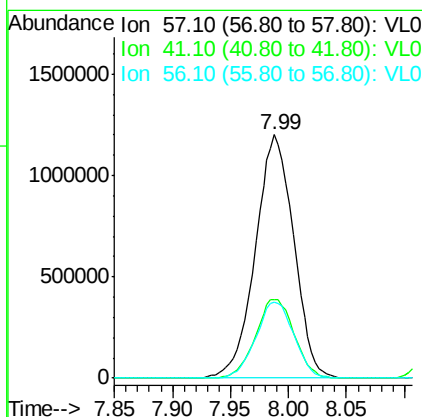
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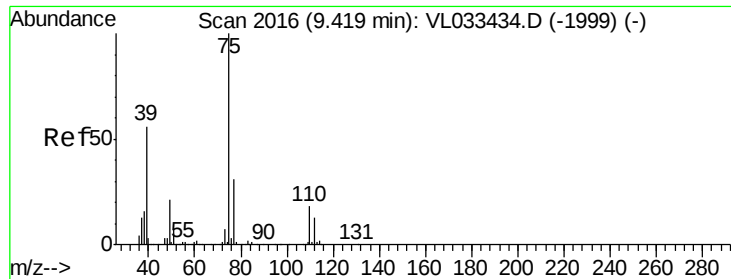
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.520 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 57 Resp: 2759809
Ion Ratio Lower Upper
57 100
41 32.9 26.0 39.0
56 31.2 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 11.154 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 922520

Ion Ratio Lower Upper

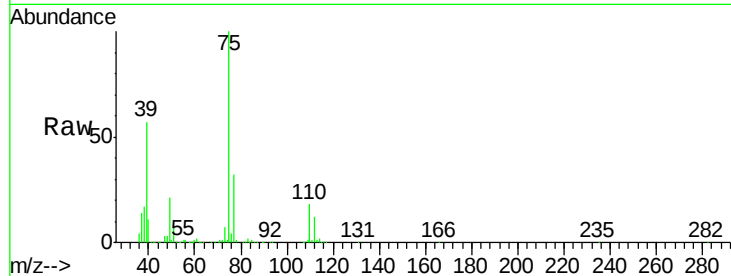
75 100

77 31.7 24.5 36.7

Manual Integrations
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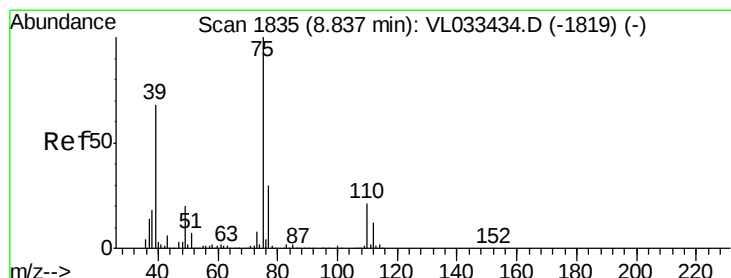
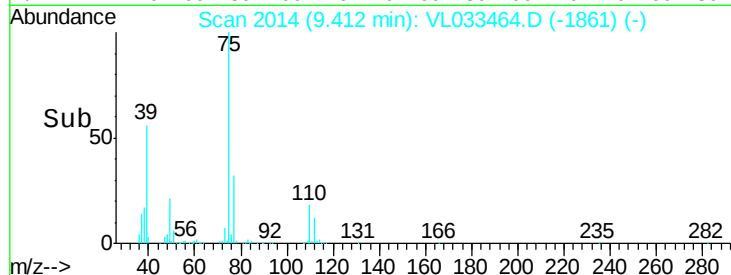
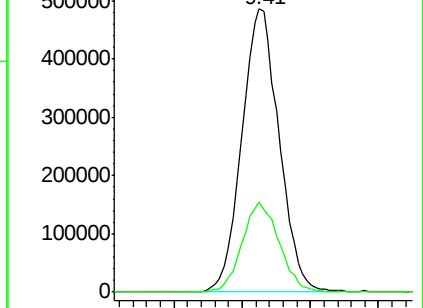
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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 10.847 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

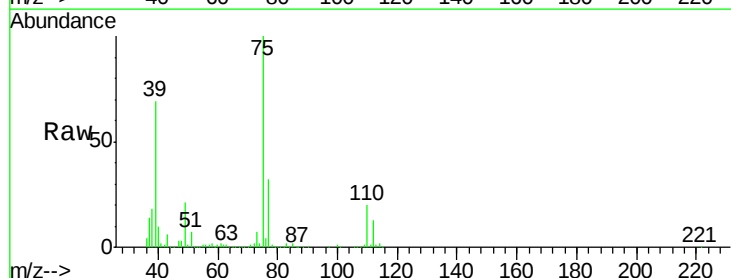
Tgt Ion: 75 Resp: 1047601

Ion Ratio Lower Upper

75 100

39 68.9 54.1 81.1

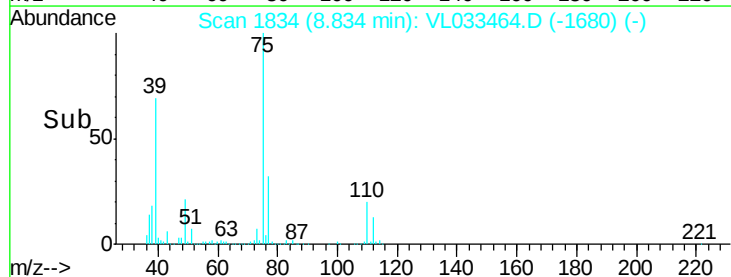
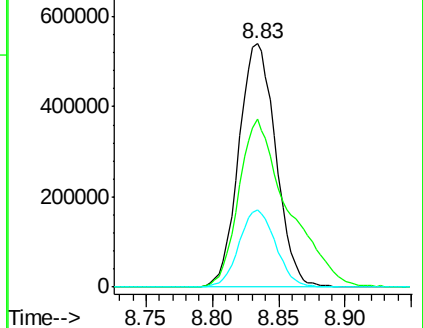
77 31.9 23.9 35.9

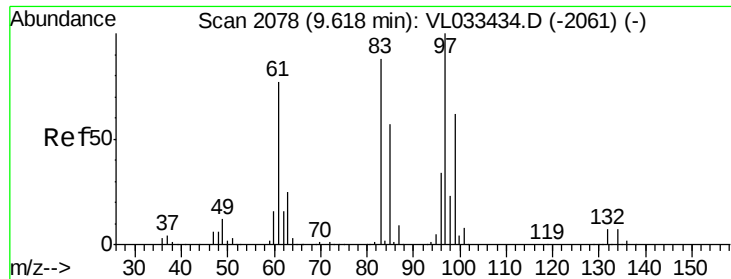


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





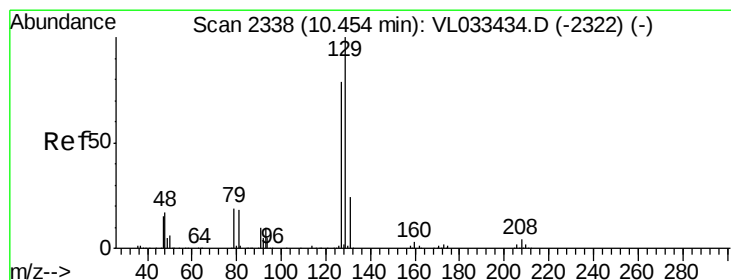
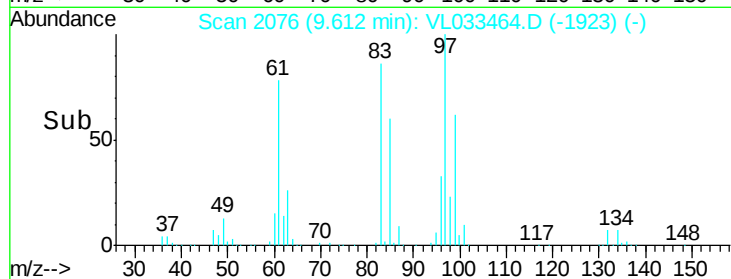
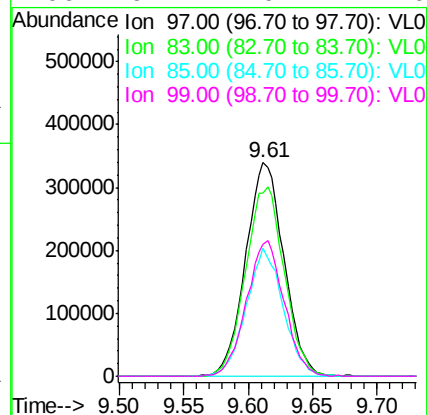
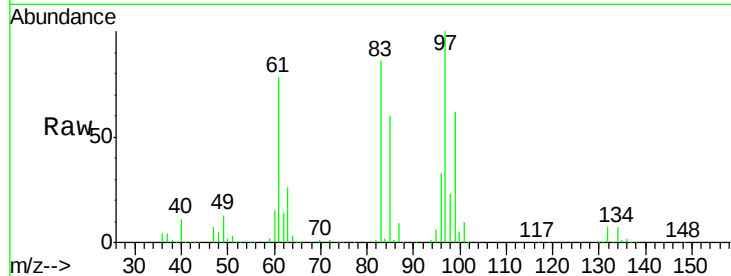
#47
 1,1,2-Trichloroethane
 Concen: 9.518 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	85.8	70.5	105.7	
85	59.7	45.6	68.4	
99	61.7	49.4	74.0	

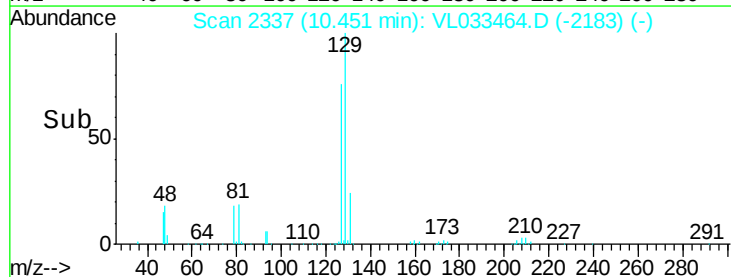
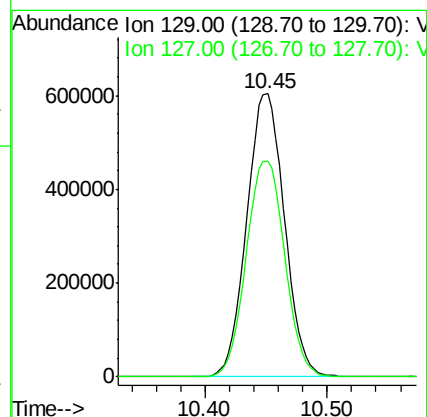
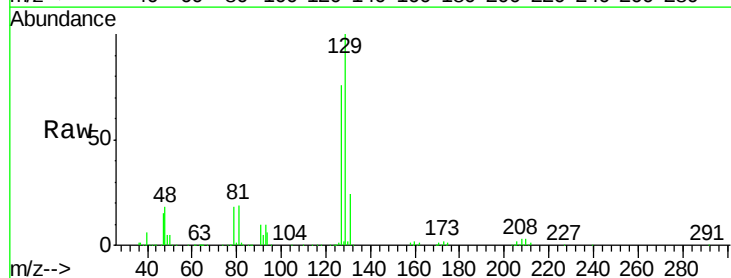
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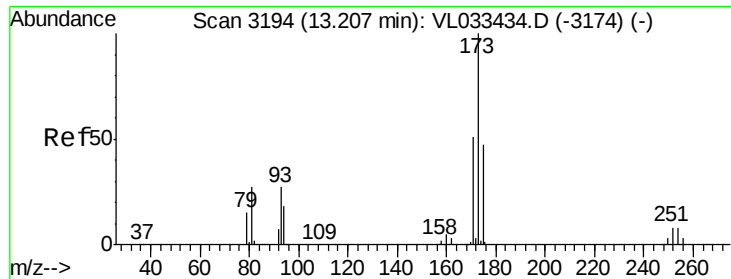
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#48
 Dibromochloromethane
 Concen: 10.347 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.1	39.1	117.2	





#49

Bromoform

Concen: 9.923 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1179887

Ion Ratio Lower Upper

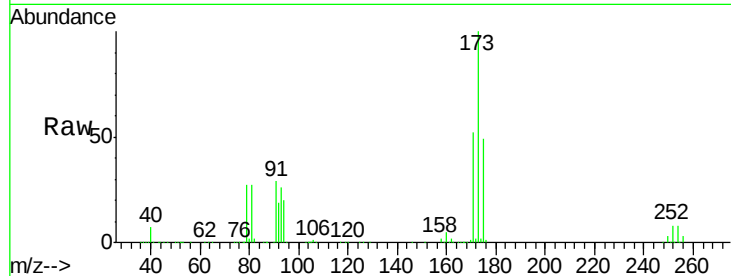
173 100

175 48.9 39.3 58.9

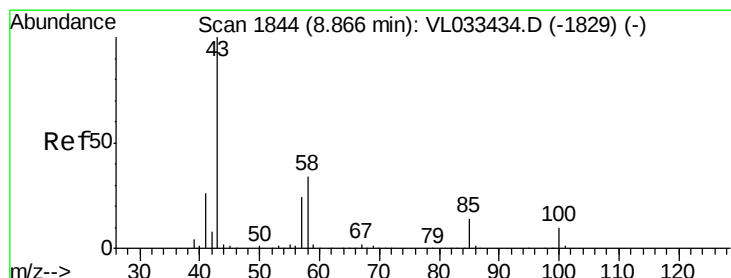
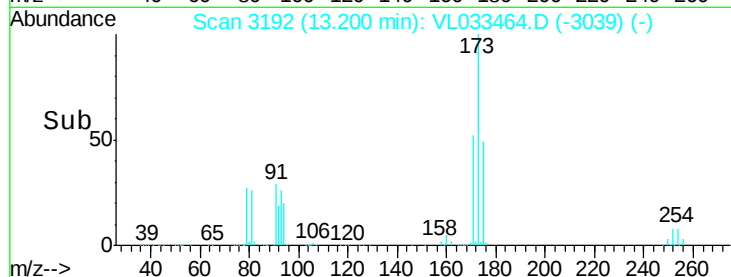
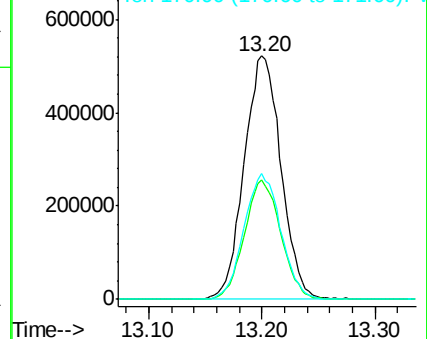
171 51.9 41.2 61.8

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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: 9.845 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VL033464.D

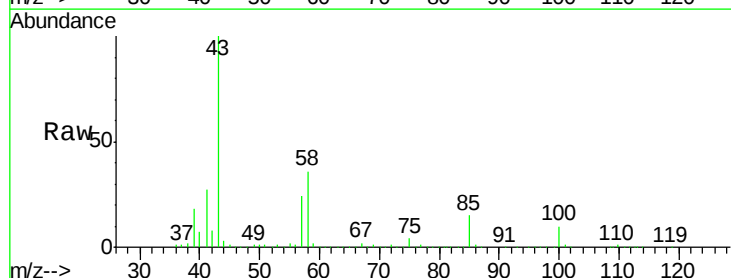
Acq: 27 Mar 2019 10:20

Tgt Ion: 43 Resp: 1712382

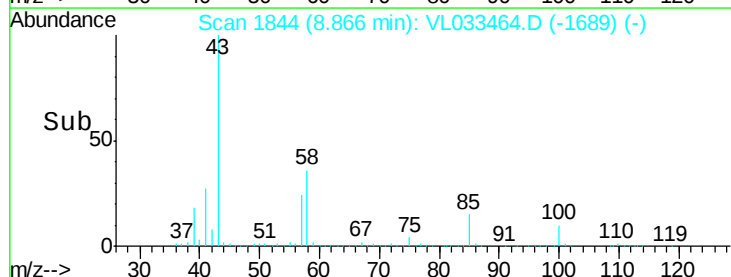
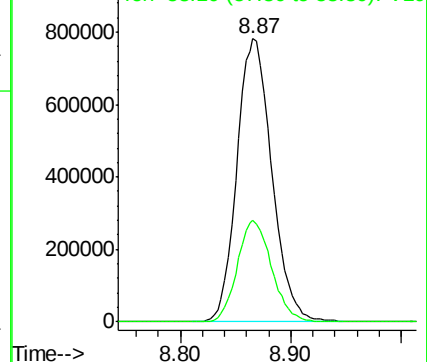
Ion Ratio Lower Upper

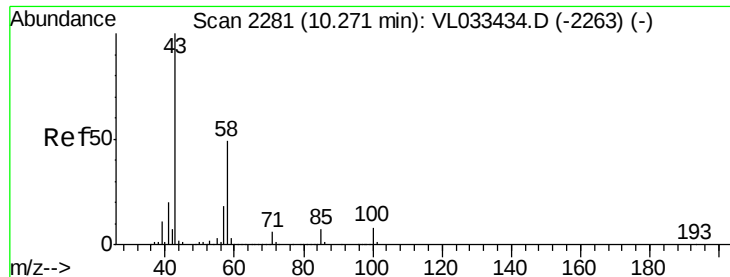
43 100

58 35.3 28.0 42.0



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





#51

2-Hexanone

Concen: 10.540 ppbv

RT: 10.27 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1367575

Ion Ratio Lower Upper

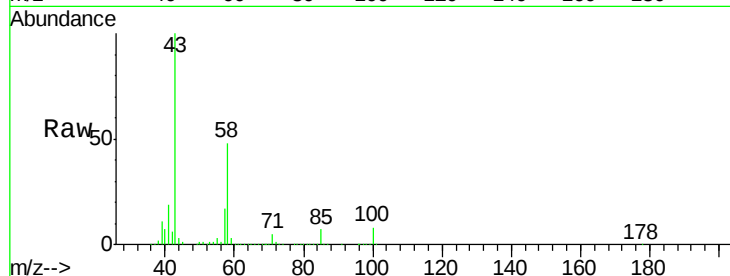
43 100

58 47.6 38.2 57.2

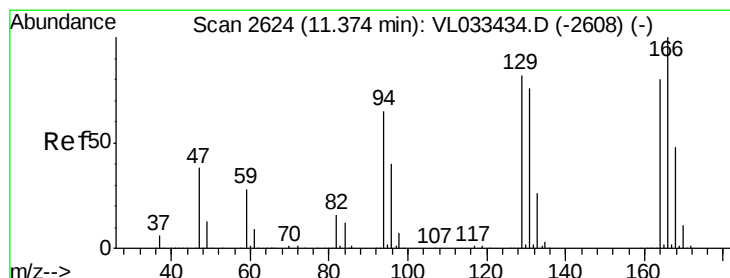
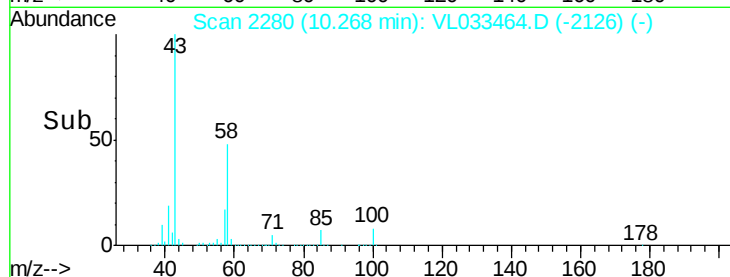
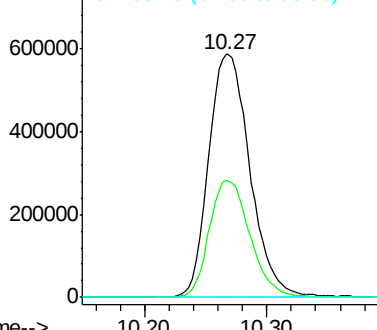
98 0.3 0.2 0.2#

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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: 10.365 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion: 164 Resp: 648752

Ion Ratio Lower Upper

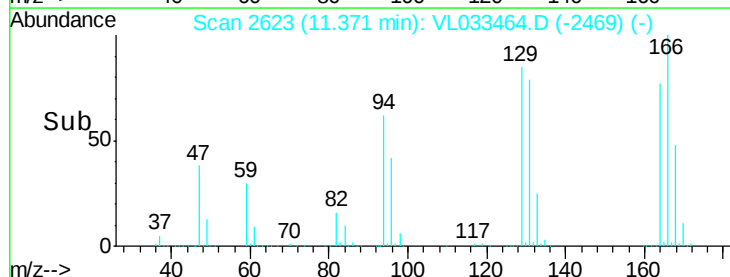
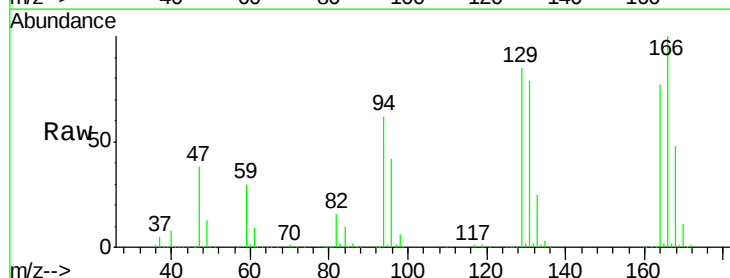
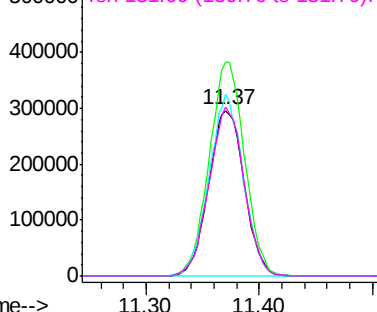
164 100

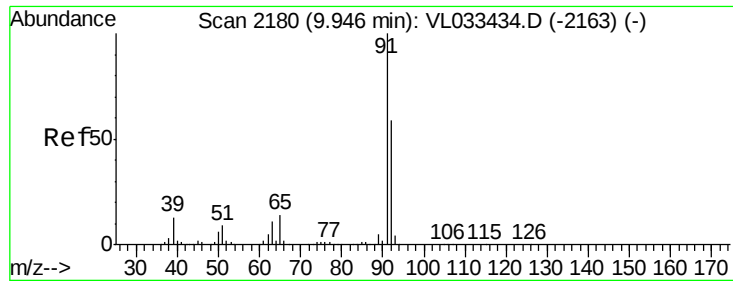
166 129.2 99.5 149.3

129 110.1 81.4 122.2

131 102.3 75.6 113.4

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: 10.270 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 1979877

Ion Ratio Lower Upper

91 100

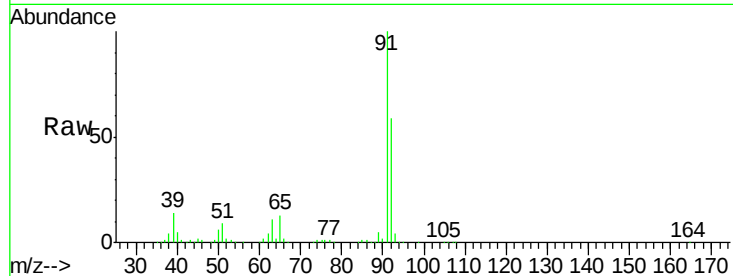
92 59.6 47.4 71.0

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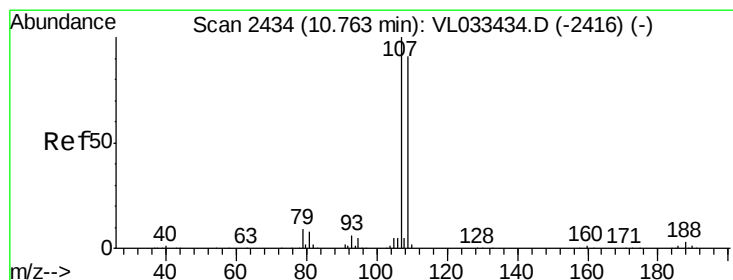
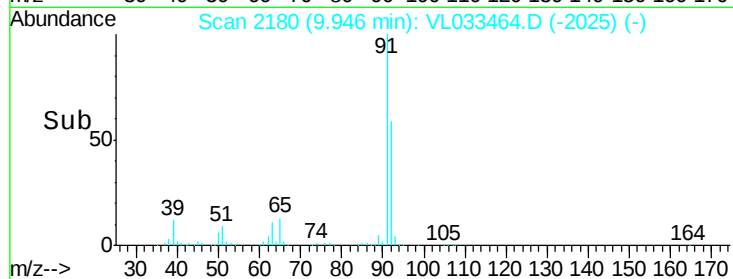
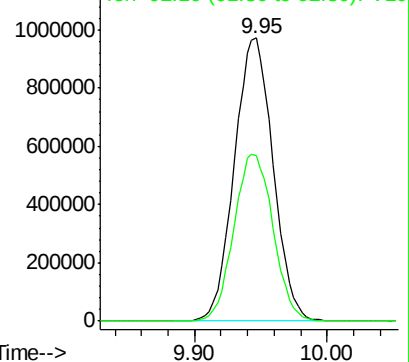
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.895 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033464.D

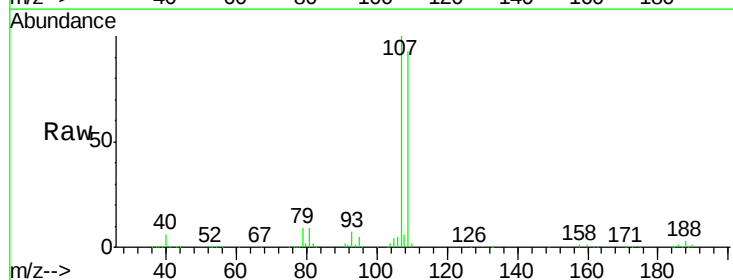
Acq: 27 Mar 2019 10:20

Tgt Ion: 107 Resp: 1142085

Ion Ratio Lower Upper

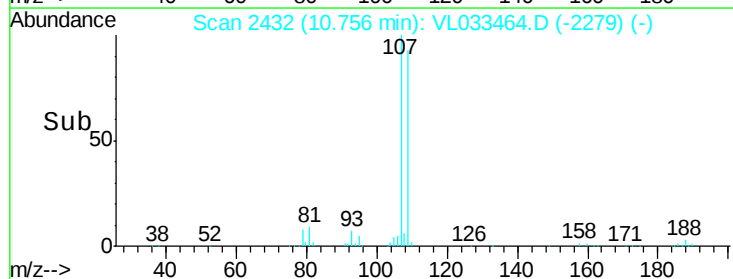
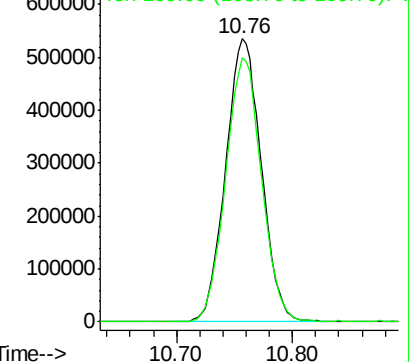
107 100

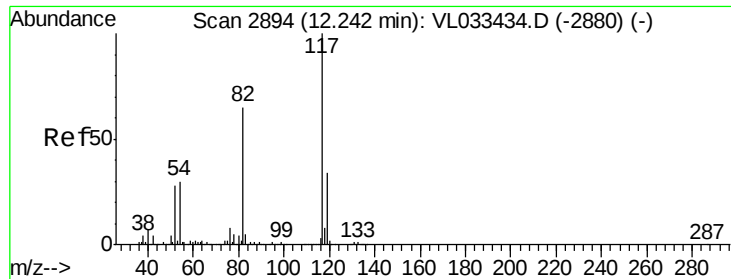
109 93.4 72.7 109.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





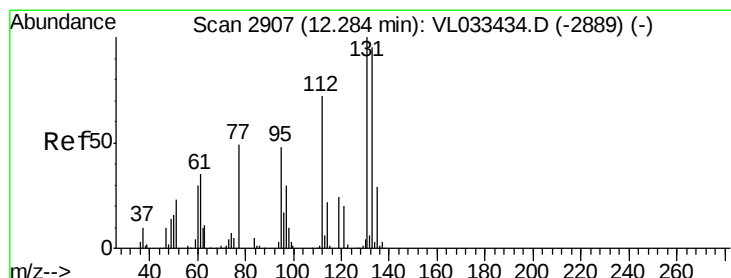
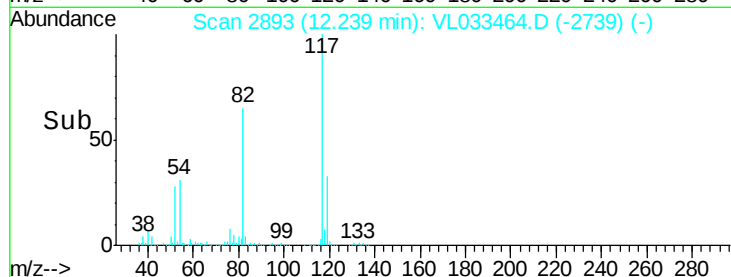
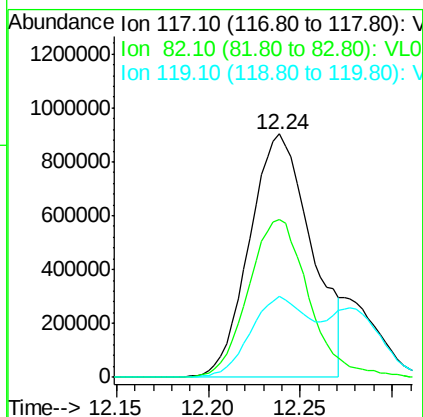
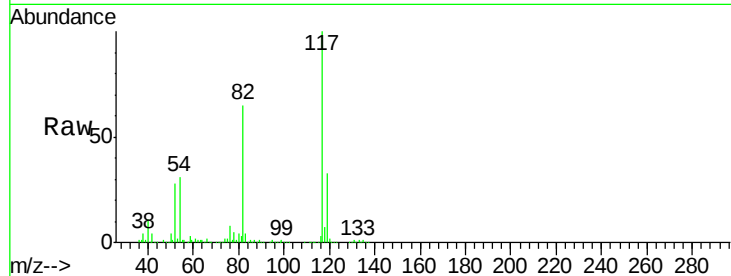
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.5	51.5	77.3
119	30.1	25.5	38.3

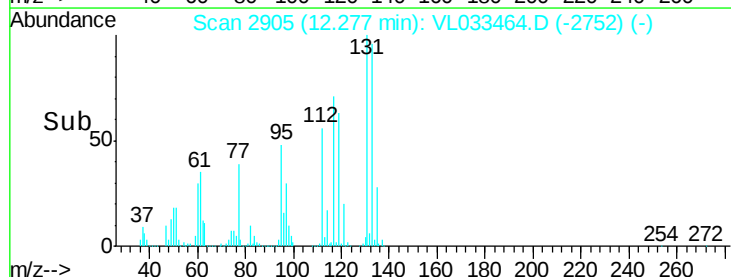
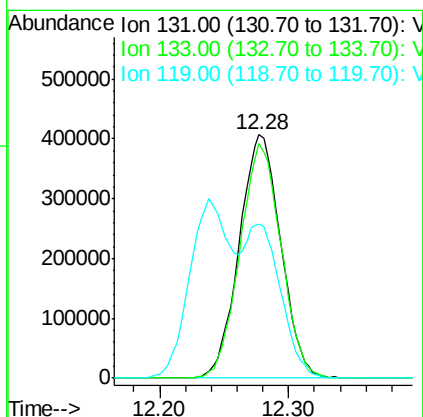
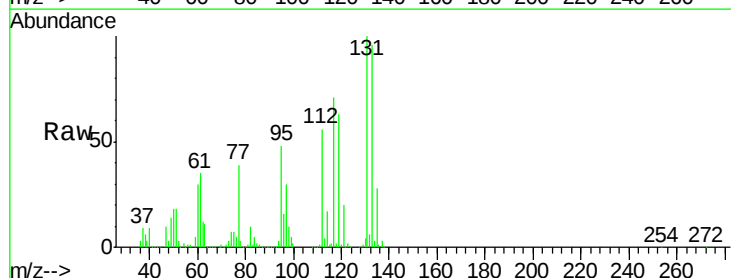
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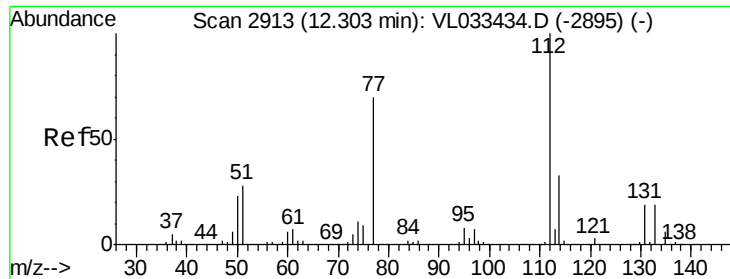
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.397 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	76.2	114.4
119	51.7	45.0	67.6





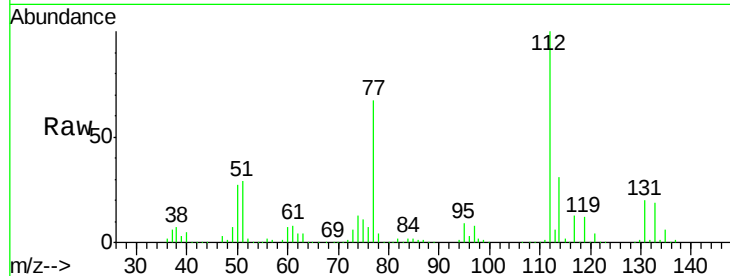
#57
Chlorobenzene
Concen: 9.416 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

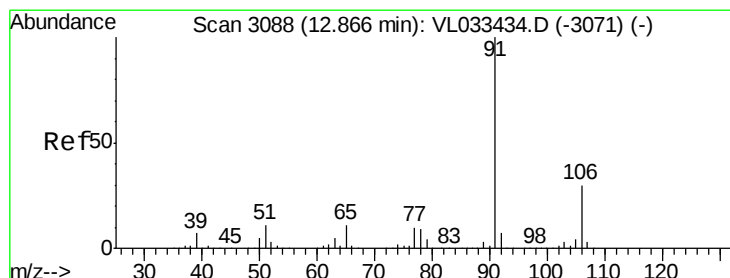
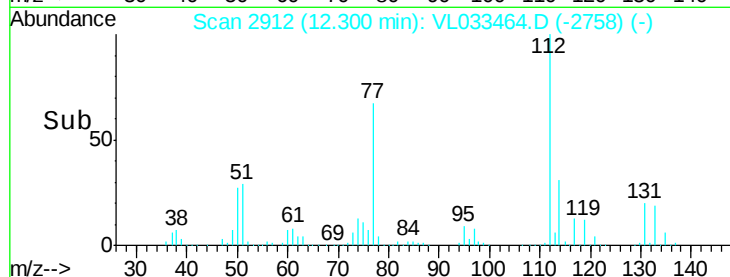
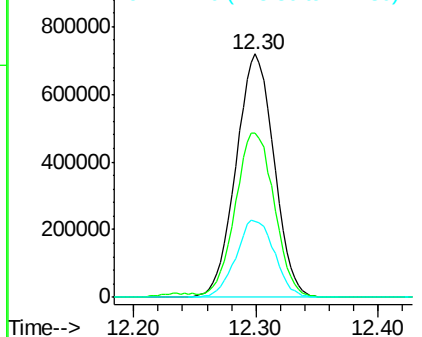
Tot Ion: 112 Resp: 1549004
Ion Ratio Lower Upper
112 100
77 67.3 57.3 85.9
114 31.1 29.8 36.4

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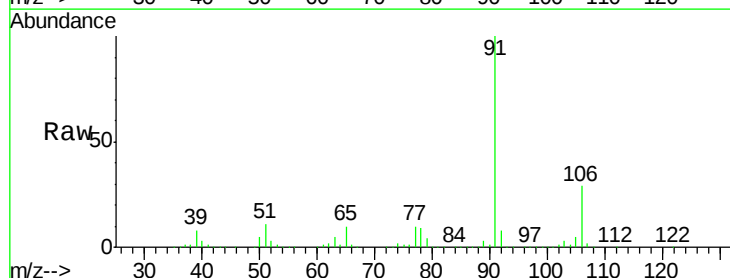


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

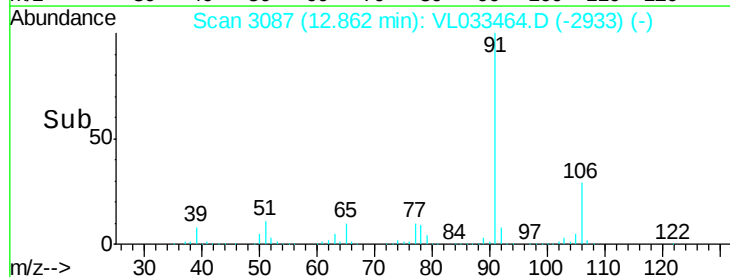
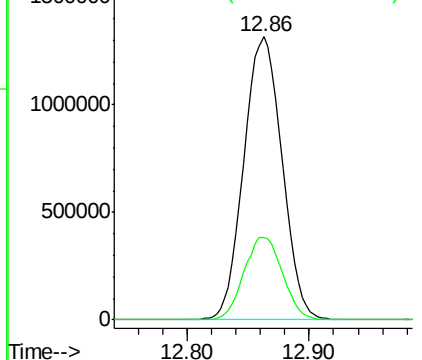


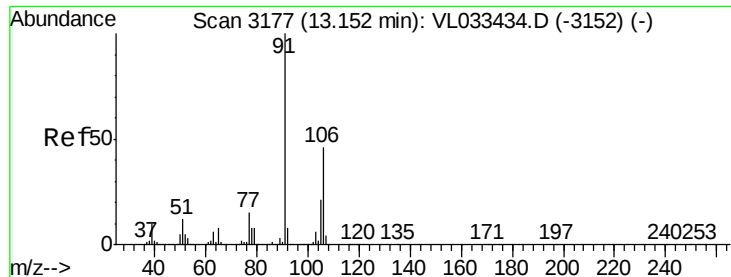
#58
Ethyl Benzene
Concen: 10.082 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 91 Resp: 2852483
Ion Ratio Lower Upper
91 100
106 29.3 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





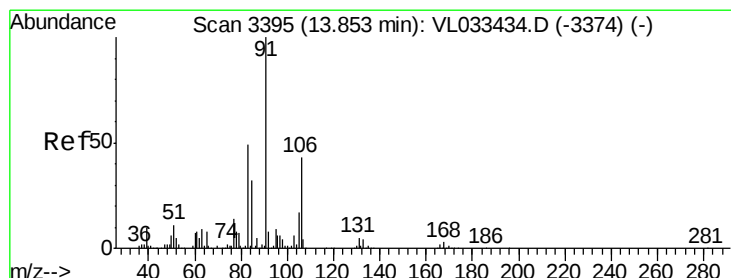
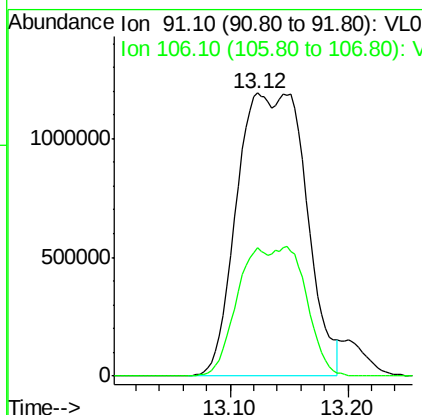
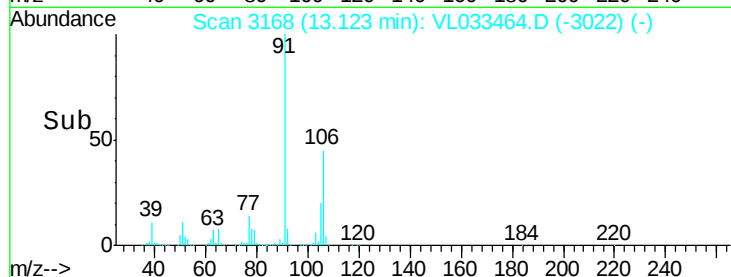
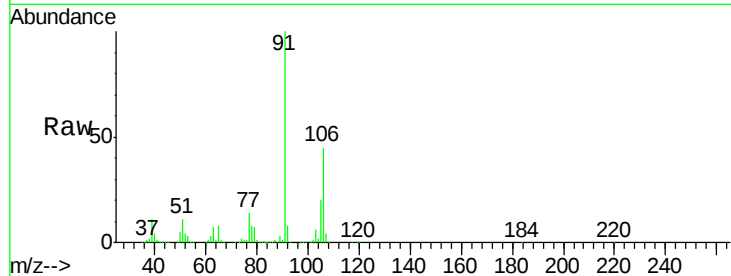
#59
m/p-Xylene
Concen: 19.186 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4848420
Ion Ratio Lower Upper
91 100
106 44.3 0.0 0.0#

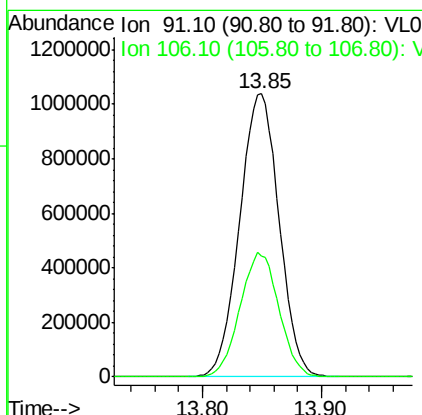
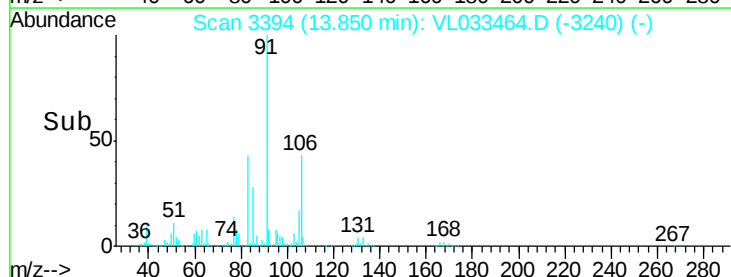
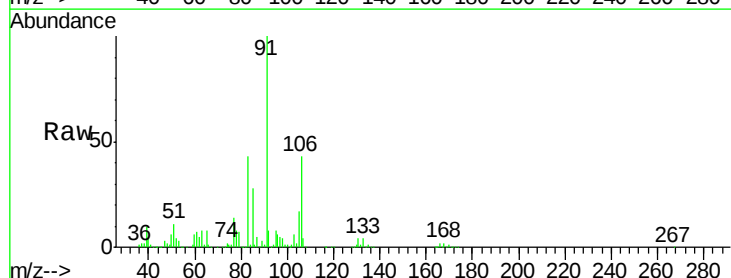
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APPROVED

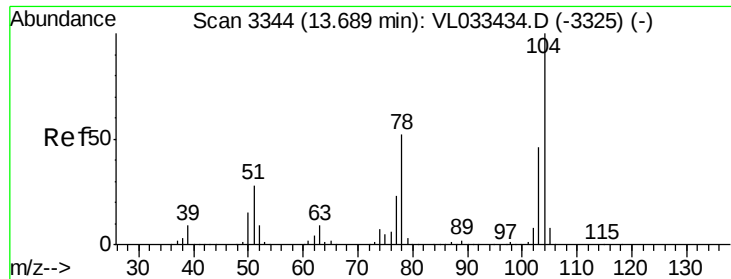
MMDadoda
4/1/2019 1:25:43 AM



#60
o-Xylene
Concen: 9.744 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 91 Resp: 2381084
Ion Ratio Lower Upper
91 100
106 43.4 21.4 64.3





#61

Stvrene

Concen: 10.581 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 1774612

Ion Ratio Lower Upper

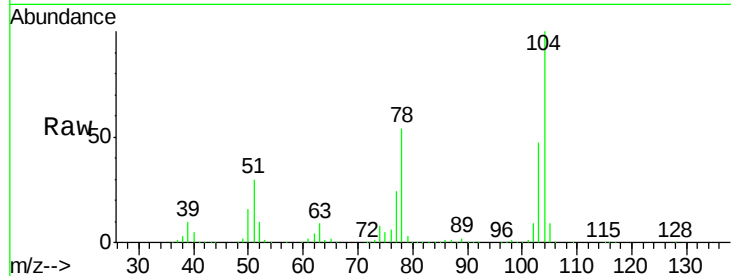
104 100

78 53.5 43.2 64.8

103 46.5 37.8 56.8

Manual Integrations
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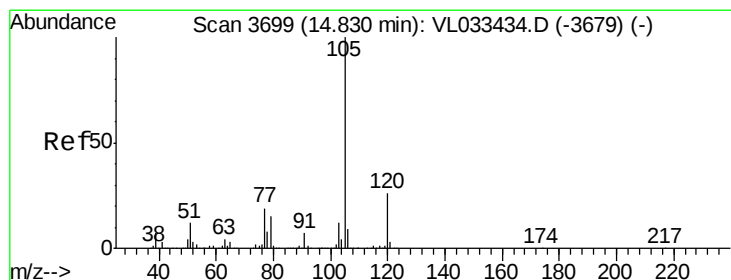
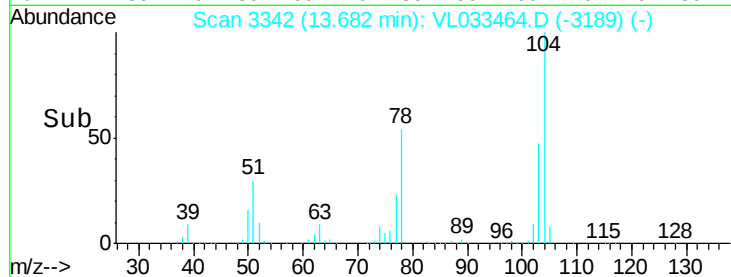
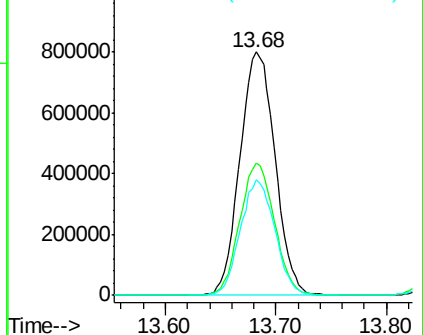
MMDadoda
4/1/2019 1:25:43 AM



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



#62

Isopropylbenzene

Concen: 9.643 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL033464.D

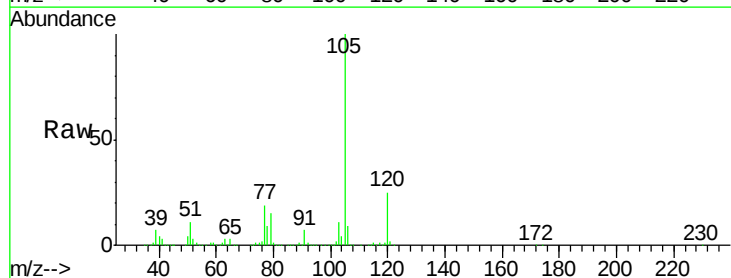
Acq: 27 Mar 2019 10:20

Tgt Ion:105 Resp: 3336790

Ion Ratio Lower Upper

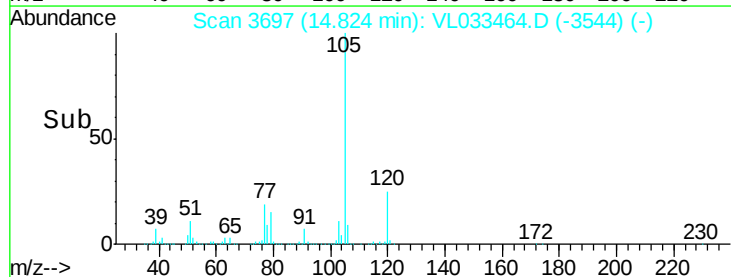
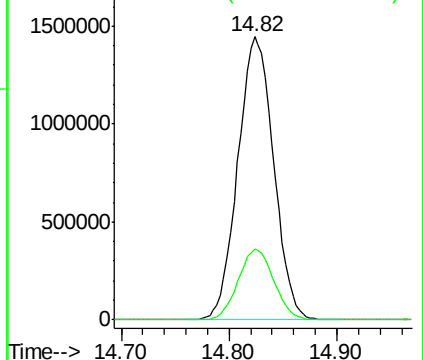
105 100

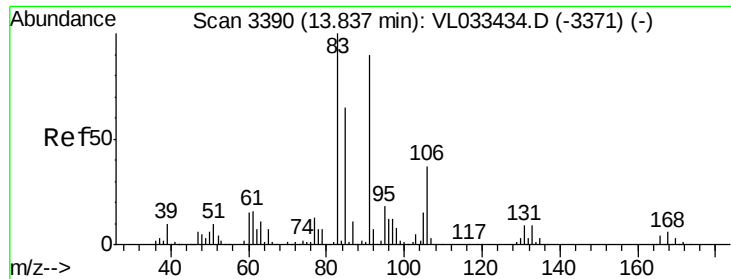
120 25.0 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





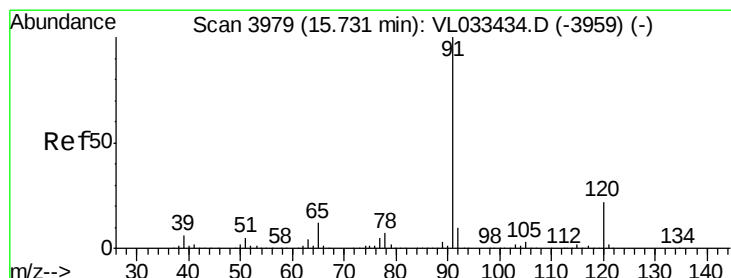
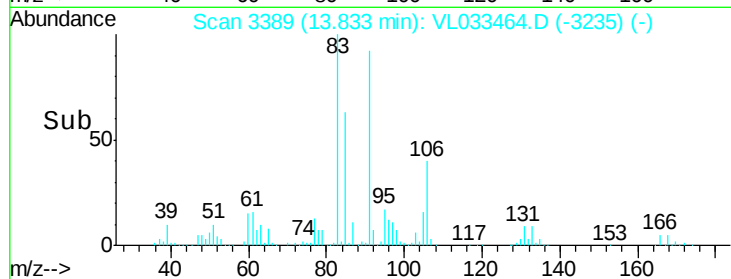
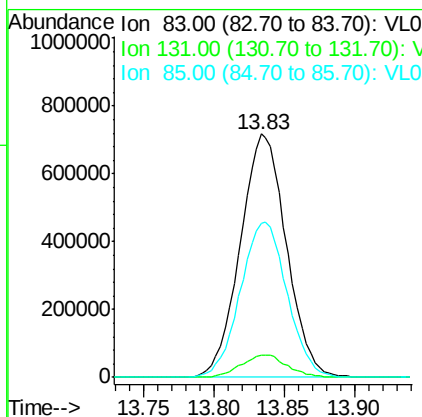
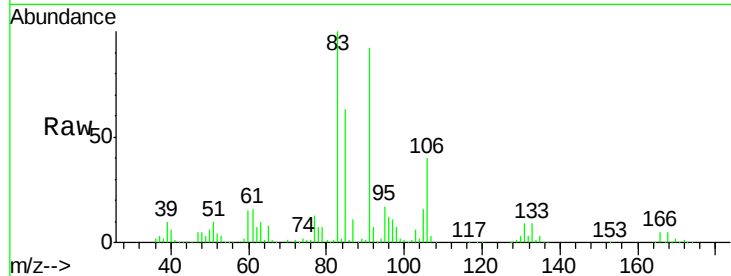
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.058 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	83	Resp	1629837
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.7	14.0
85	65.2	32.7	98.1

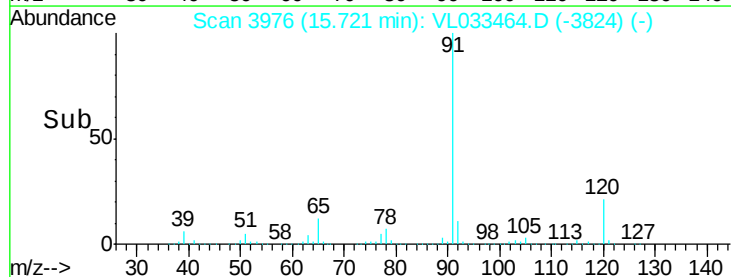
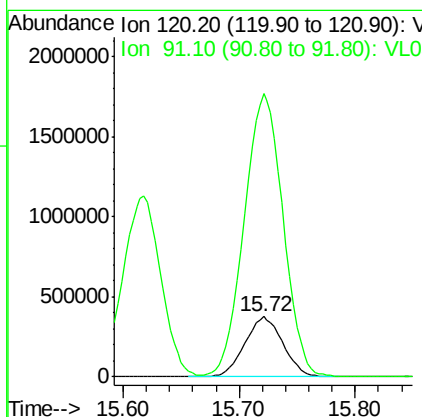
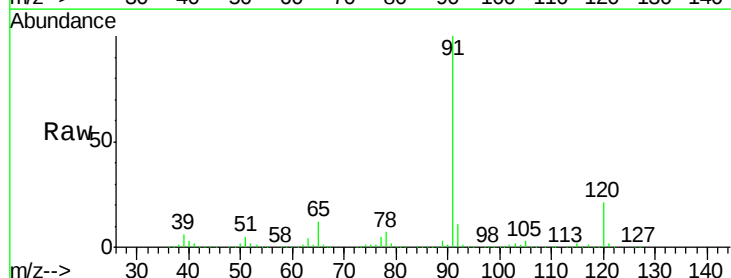
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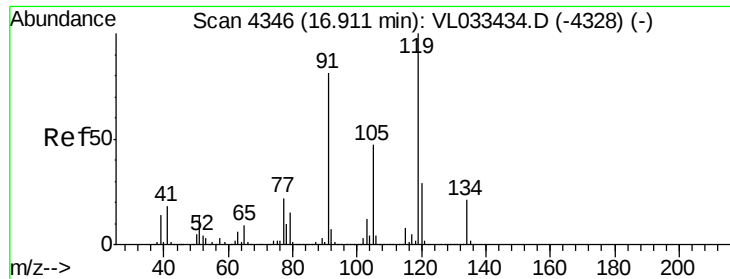
MMDadoda
 4/1/2019 1:25:43 AM



#64
 n-propylbenzene
 Concen: 9.785 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion	120	Resp	859159
Ion Ratio	100	Lower	Upper
120	100		
91	481.6	387.4	581.2





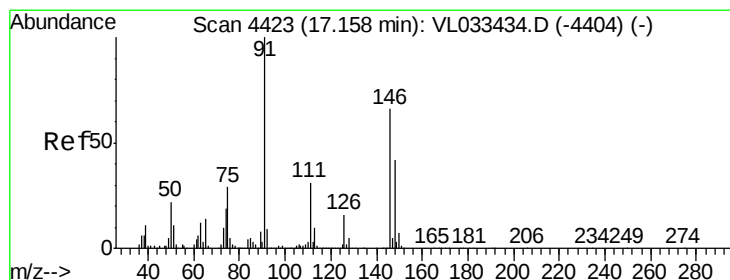
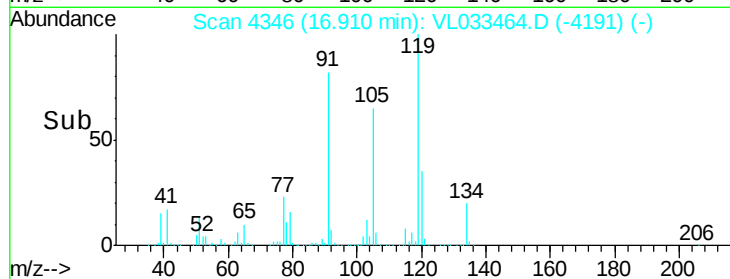
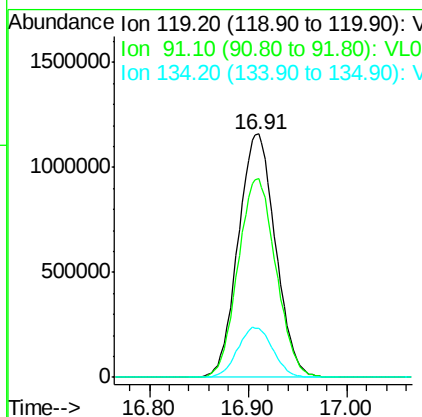
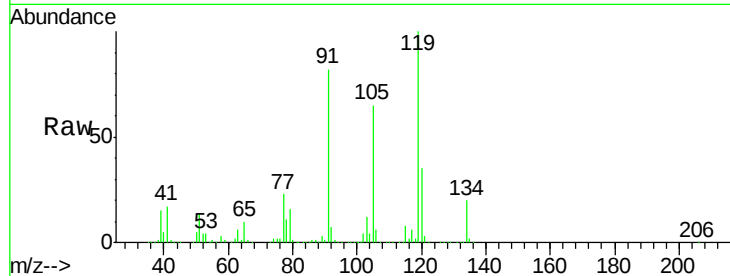
#65
 tert-Butylbenzene
 Concen: 9.909 ppbv
 RT: 16.91 min Scan# 4346
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 119 Resp: 3021578
 Ion Ratio Lower Upper
 119 100
 91 83.3 66.4 99.6
 134 19.5 15.5 23.3

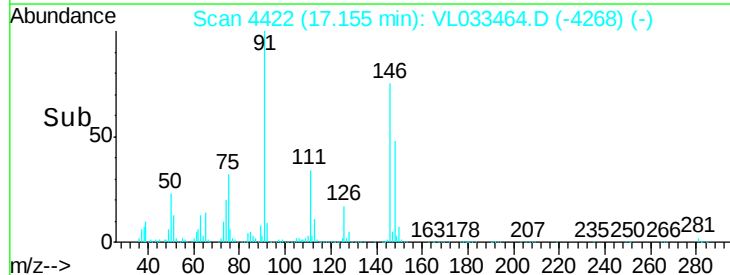
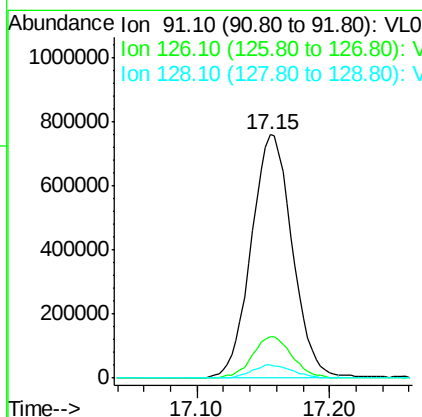
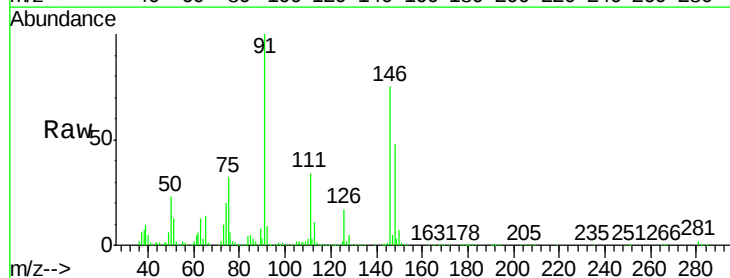
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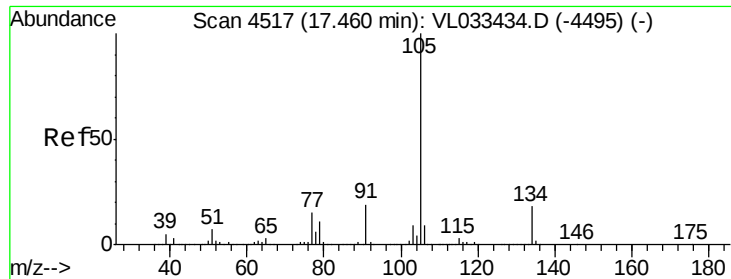
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#66
 Benzyl Chloride
 Concen: 11.562 ppbv
 RT: 17.15 min Scan# 4422
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion: 91 Resp: 1639454
 Ion Ratio Lower Upper
 91 100
 126 16.6 13.0 19.6
 128 5.4 4.2 6.2





#67

sec-Butylbenzene

Concen: 9.883 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 4285855

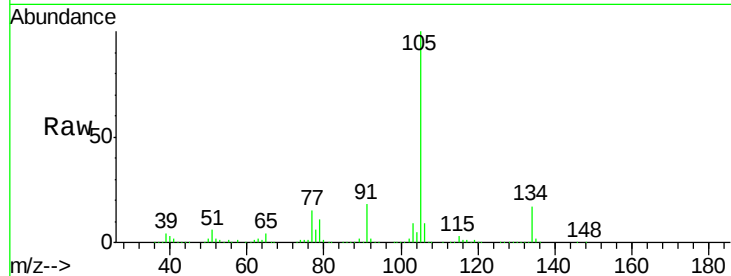
Ion Ratio Lower Upper

105 100

134 17.8 14.6 21.8

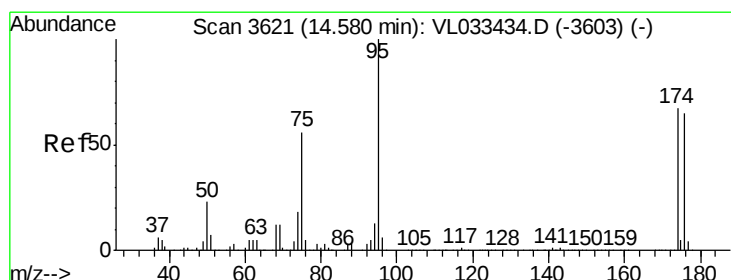
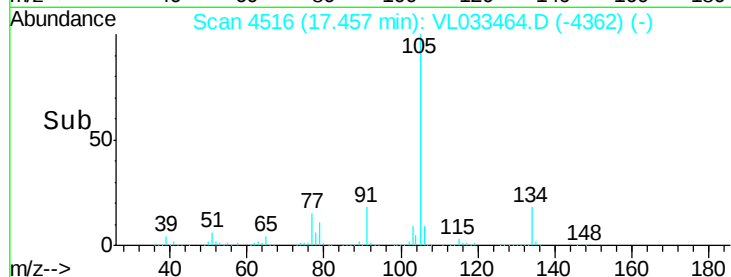
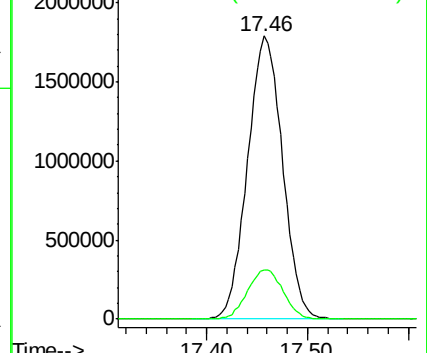
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.495 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

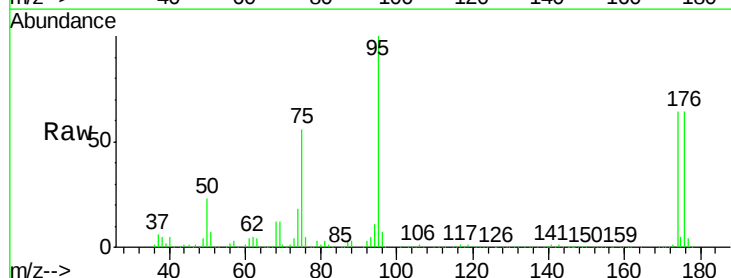
Tgt Ion: 95 Resp: 1577096

Ion Ratio Lower Upper

95 100

174 66.0 52.9 79.3

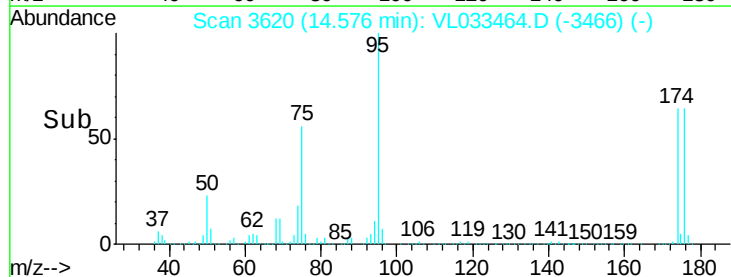
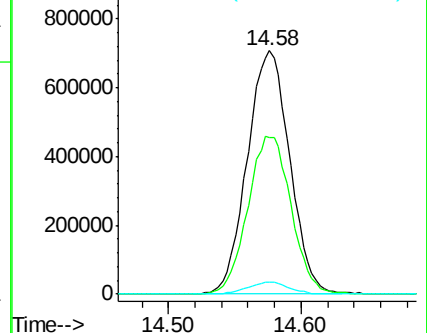
175 4.7 3.8 5.6

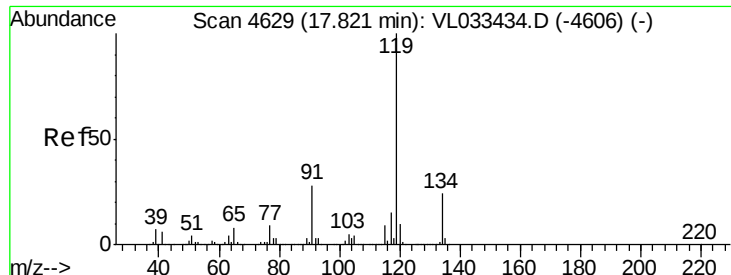


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





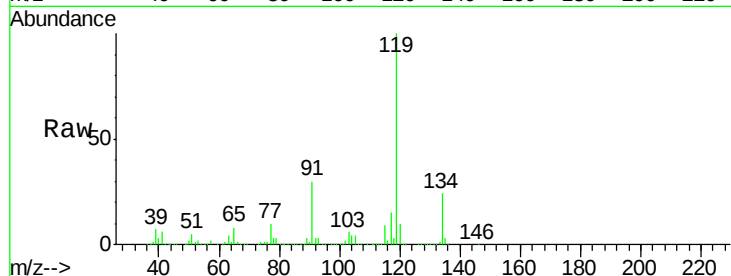
#69
p-Isopropyltoluene
Concen: 10.122 ppbv
RT: 17.81 min Scan# 4627
Delta R.T. -0.01 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	19.9	29.9
91	29.3	23.4	35.0

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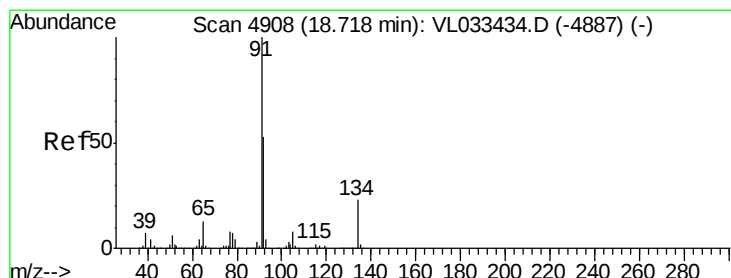
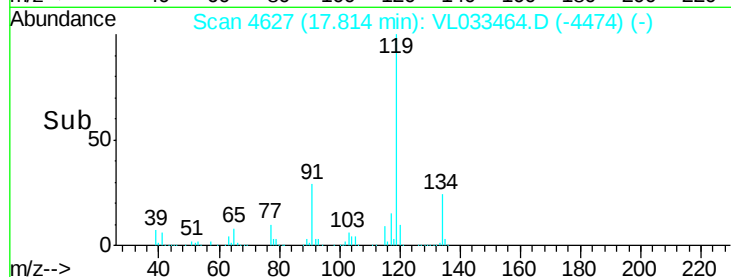
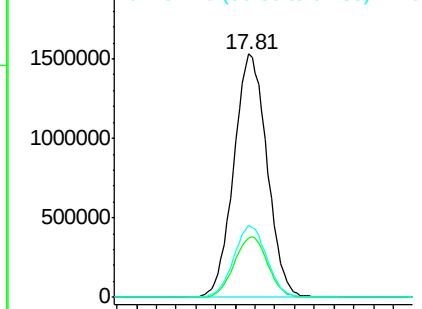


Abundance

Ion 119.10 (118.80 to 119.80): V

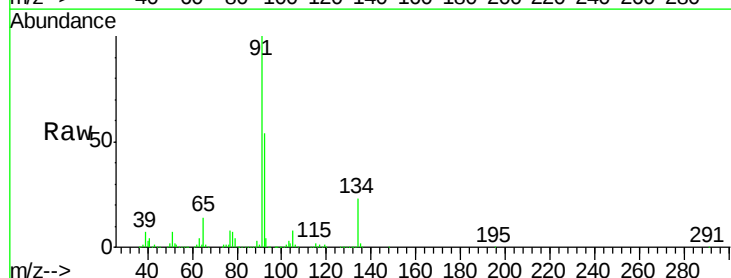
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
n-Butylbenzene
Concen: 10.133 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.6	64.0
134	21.8	17.5	26.3

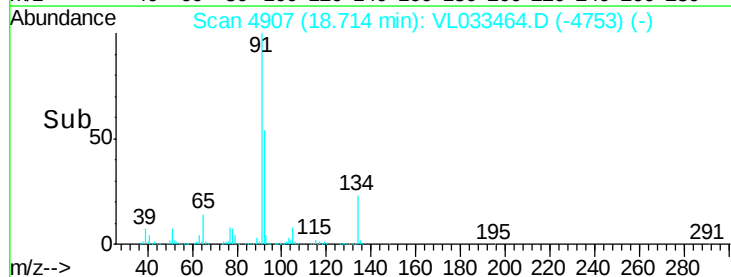
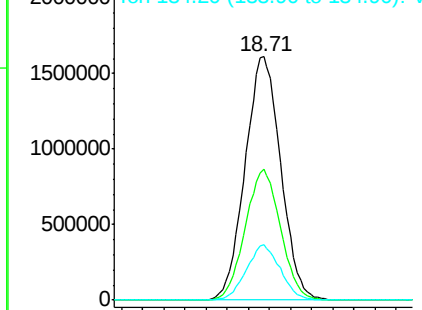


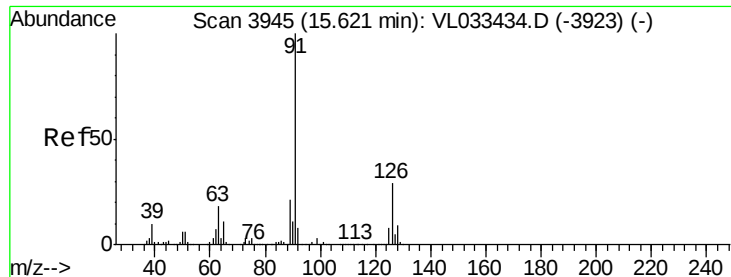
Abundance

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: 9.829 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2586328

Ion Ratio Lower Upper

91 100

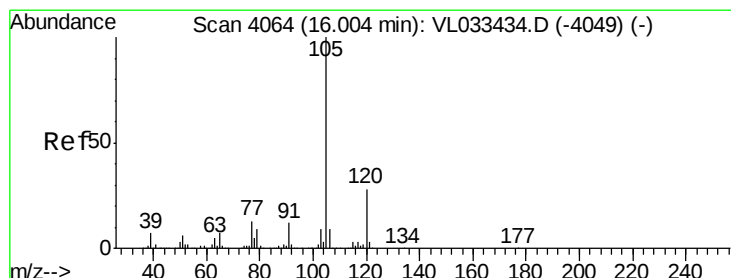
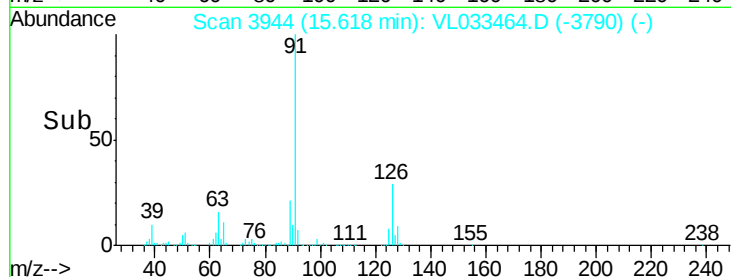
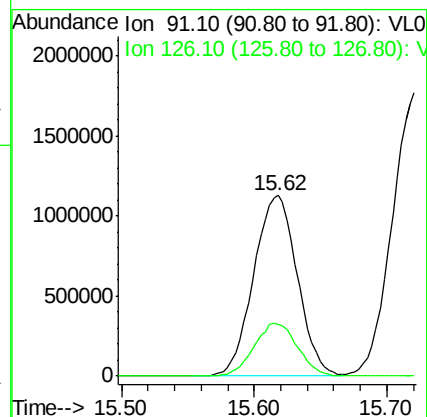
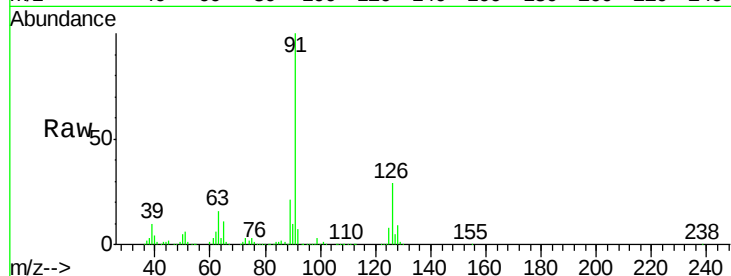
126 29.3 11.7 46.9

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#72

4-Ethyltoluene

Concen: 10.124 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion: 105 Resp: 2780845

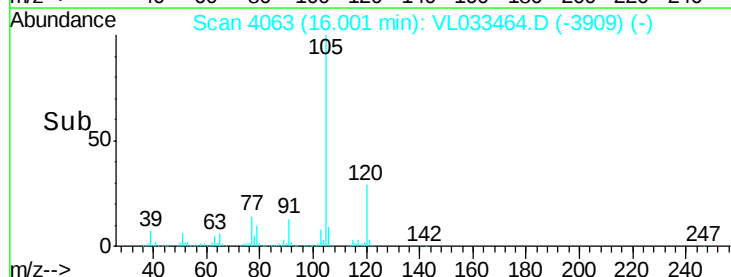
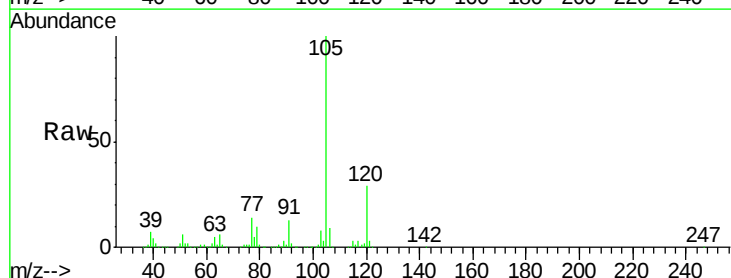
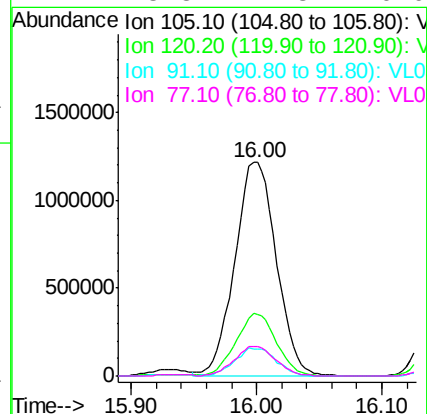
Ion Ratio Lower Upper

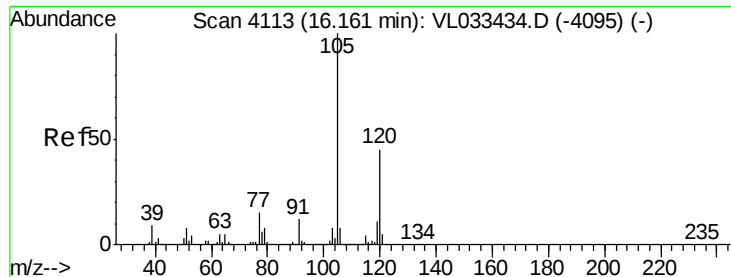
105 100

120 28.7 23.2 34.8

91 13.1 10.4 15.6

77 13.8 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.172 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 2673861

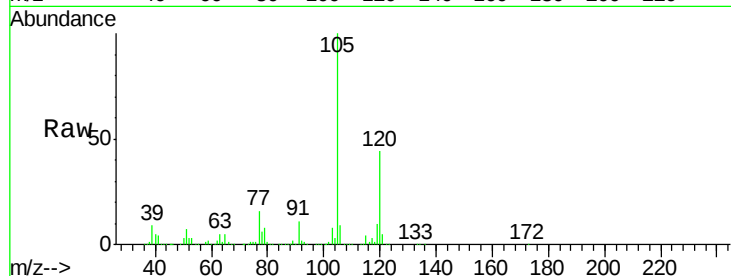
Ion Ratio Lower Upper

105 100

120 44.4 35.7 53.5

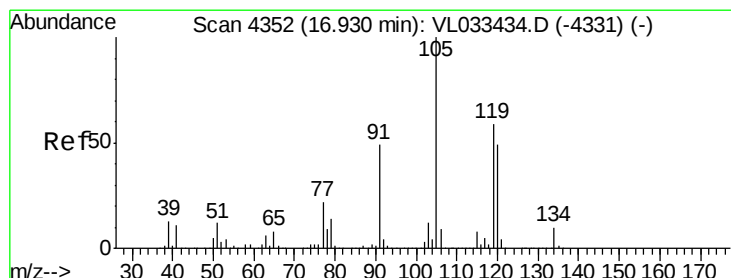
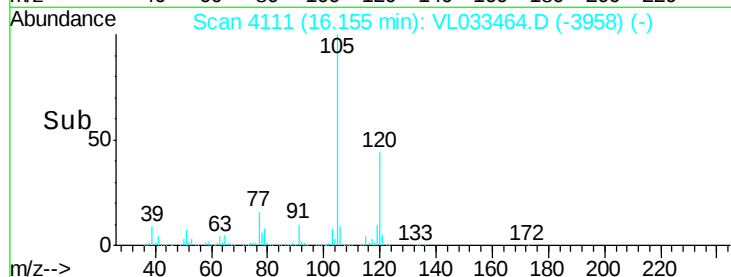
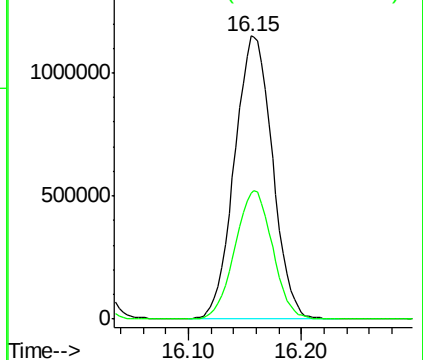
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.926 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion:105 Resp: 2796611

Ion Ratio Lower Upper

105 100

120 45.2 39.0 58.6

91 39.3 40.0 60.0#

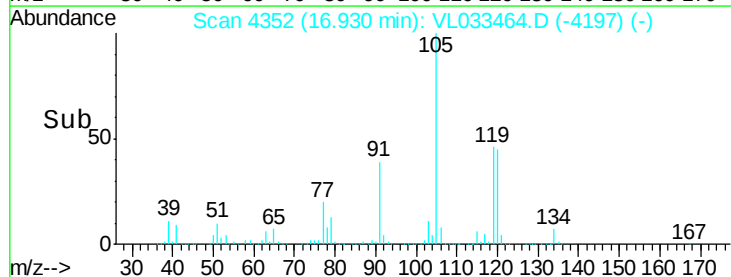
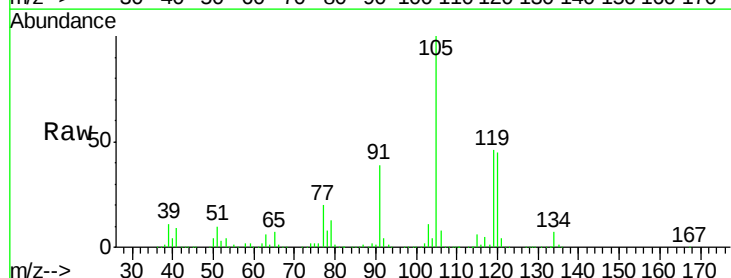
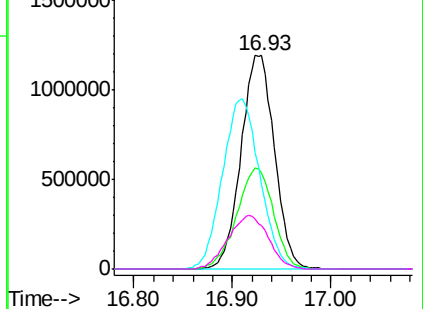
77 20.4 17.5 26.3

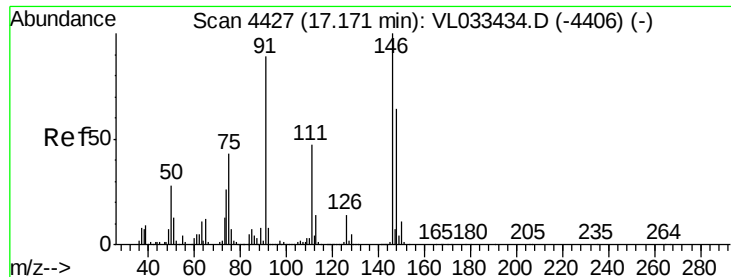
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.467 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1648536

Ion Ratio Lower Upper

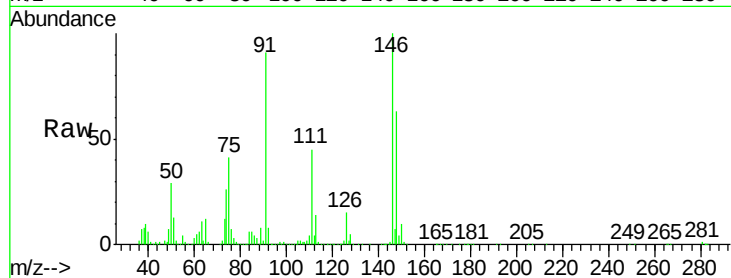
146 100

111 45.6 22.9 68.8

148 64.1 32.0 96.2

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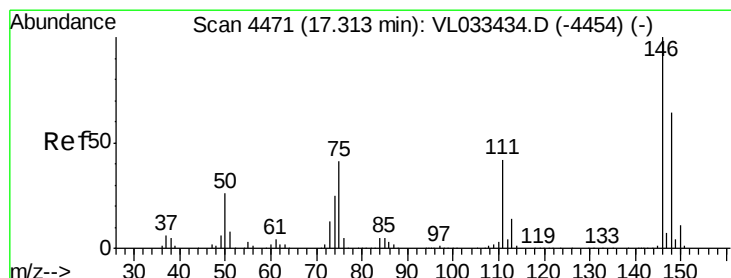
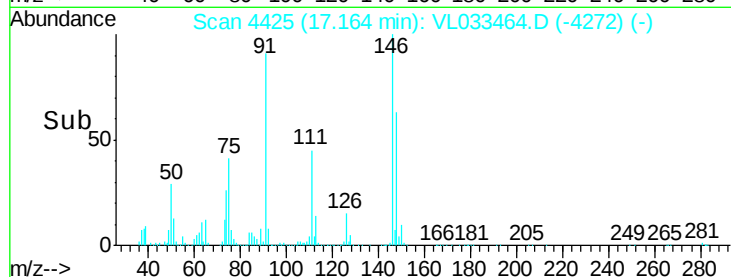
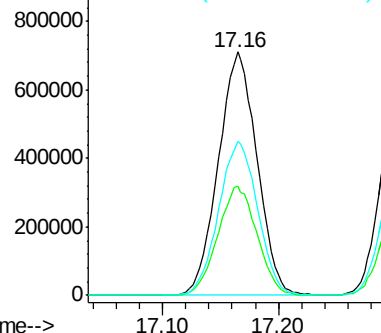
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.724 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

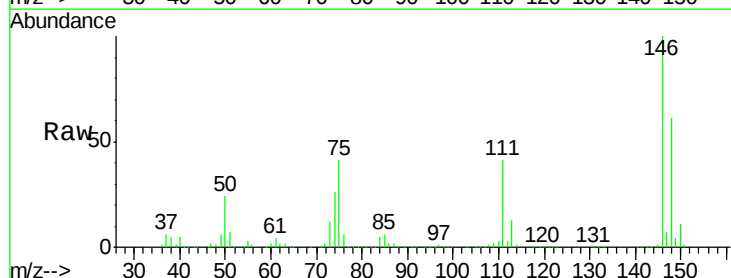
Tgt Ion:146 Resp: 1649876

Ion Ratio Lower Upper

146 100

111 43.3 21.7 65.1

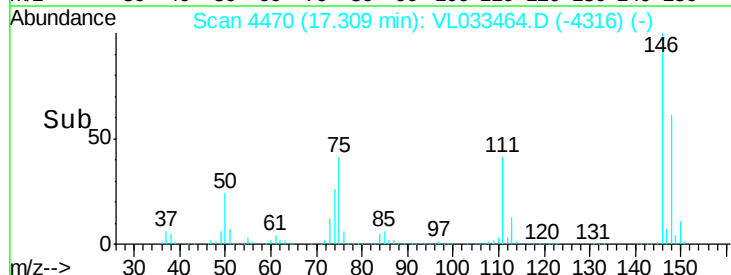
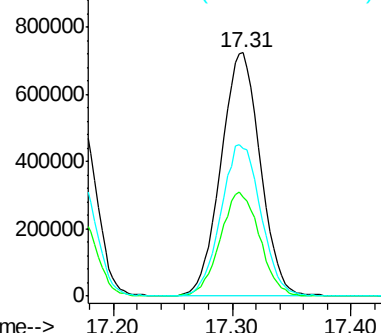
148 64.0 32.0 96.2

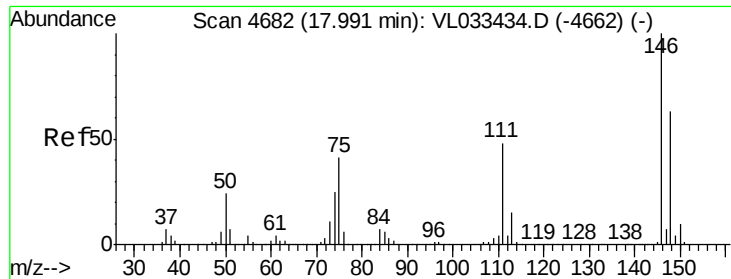


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





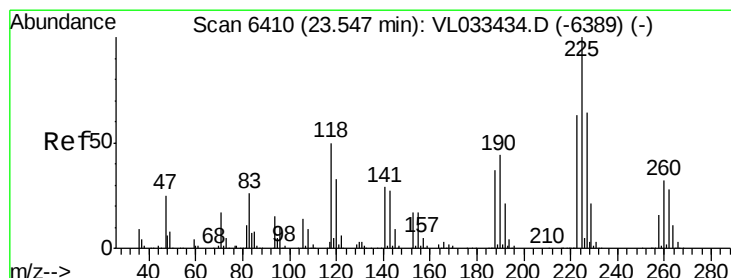
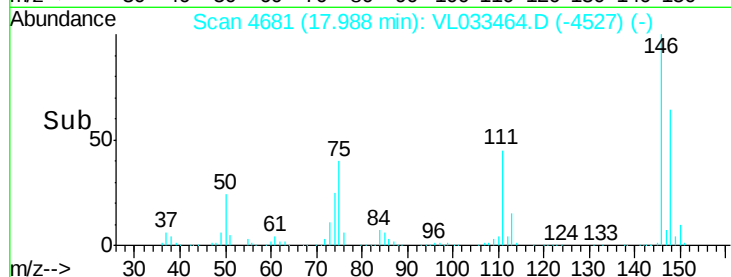
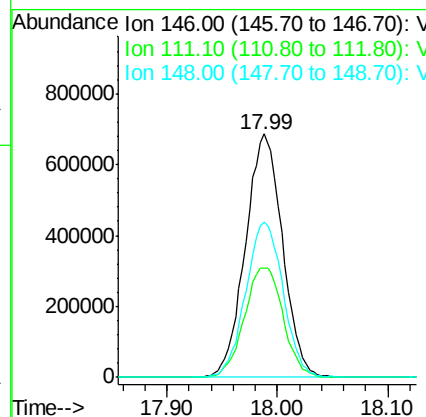
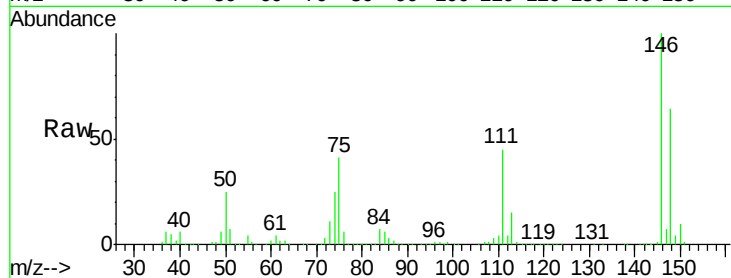
#77
 1,2-Dichlorobenzene
 Concen: 9.671 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.2	23.5	70.5
148	64.5	32.0	96.0

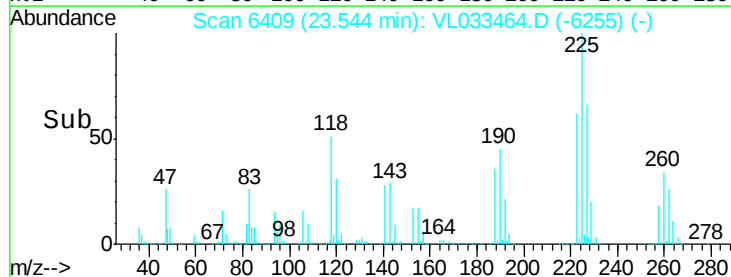
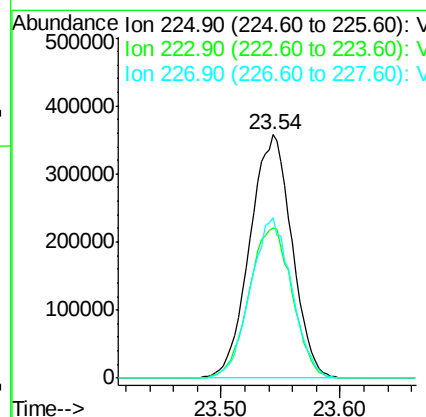
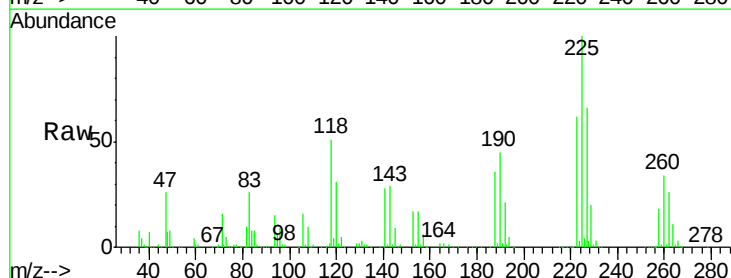
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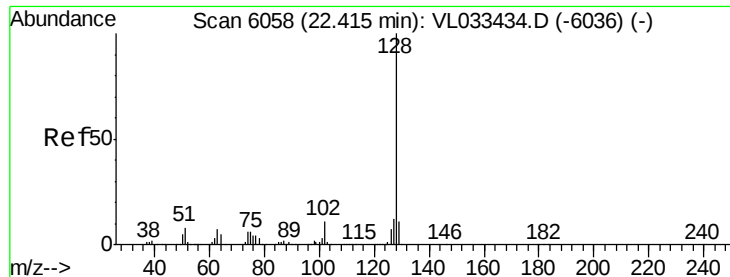
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.990 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.0	75.0
227	64.6	51.1	76.7





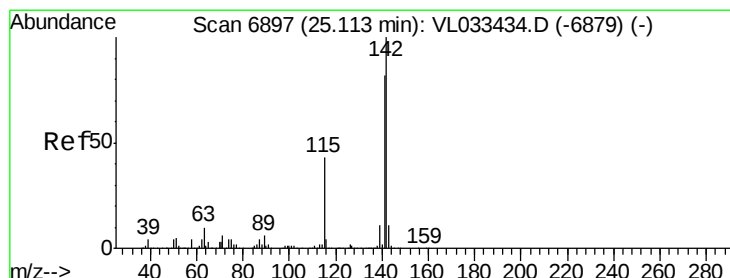
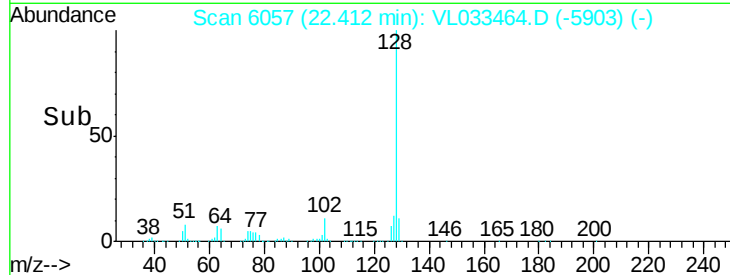
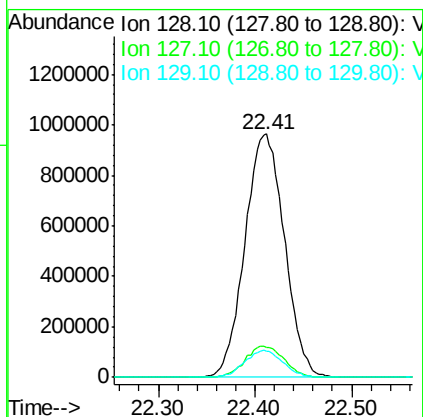
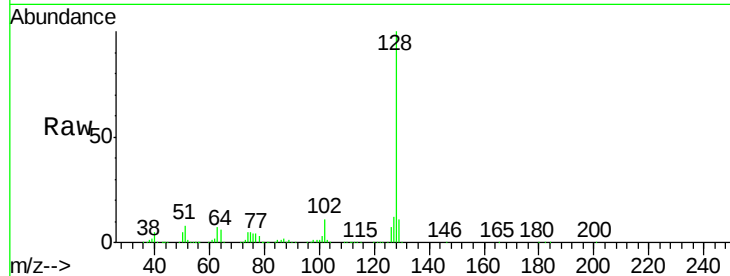
#79
Naphthalene
Concen: 11.342 ppbv
RT: 22.41 min Scan# 6057
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.8	14.8
129	10.9	8.6	12.8

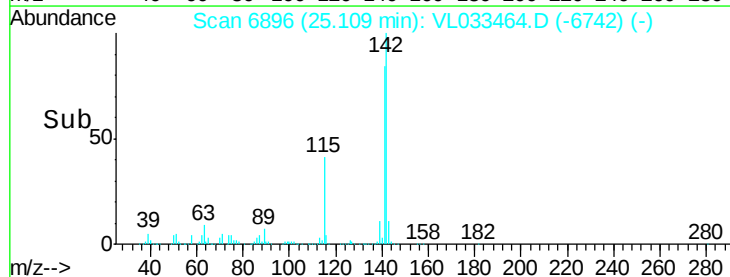
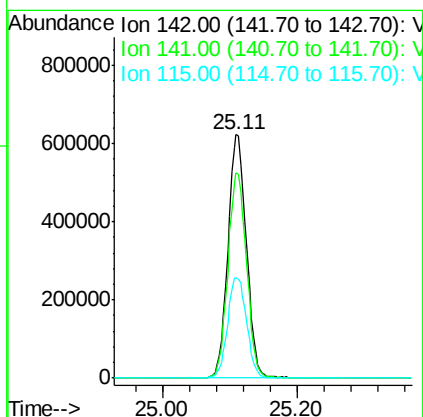
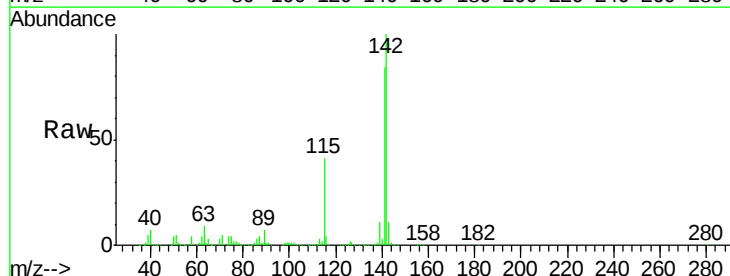
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#80
Naphthalene, 2-methyl-
Concen: 14.663 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.1	66.6	99.8
115	42.7	34.4	51.6





#81
 1,2,4-Trichlorobenzene
 Concen: 10.429 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.0	115.4
184	30.6	24.6	36.8

Manual Integrations
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