

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034667.D
 Acq On : 25 Feb 2020 11:17
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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 2/26/2020 12:38:40 PM

Quant Time: Feb 25 12:08:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1144694	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2410844	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2582745	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2085314	9.55	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	1464003	5.807	ppbv 100
3) Chlorodifluoromethane	2.95	51	1165667	8.427	ppbv 100
4) Chloromethane	3.10	50	774952	9.157	ppbv 100
5) Vinyl Chloride	3.22	62	712135	8.810	ppbv 100
6) Bromomethane	3.44	94	356199	8.472	ppbv 100
7) Chloroethane	3.52	64	260171	8.655	ppbv 100
8) Dichlorotetrafluoroethane	3.15	85	1537289	7.801	ppbv 100
9) Propene	2.97	41	529954	9.841	ppbv 100
10) Heptane	8.14	43	1476658	10.895	ppbv 100
11) Trichlorofluoromethane	3.92	101	1561968	6.820	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1098658	7.352	ppbv 100
13) Ethanol	3.57	45	133380	9.246	ppbv 99
14) Bromoethene	3.71	108	485629	8.284	ppbv 100
15) Acetone	3.82	43	1264508	7.516	ppbv 99
16) 1,3-Butadiene	3.29	39	637774	9.547	ppbv 100
17) tert-Butyl alcohol	4.27	59	1024086	8.277	ppbv 100
18) 1,1-Dichloroethene	4.26	96	503746	7.986	ppbv 100
19) Isopropyl Alcohol	3.94	45	1002646	10.213	ppbv 99
20) Methylene Chloride	4.32	84	466050	7.275	ppbv 100
21) Allyl Chloride	4.39	41	879719	8.420	ppbv 100
22) trans-1,2-Dichloroethene	4.87	96	502223	7.602	ppbv 100
23) Vinyl Acetate	5.06	43	1839710	9.585	ppbv 100
24) 1,1-Dichloroethane	5.00	63	1430512	8.927	ppbv 100
25) Ethyl Acetate	5.67	43	2486304	9.129	ppbv 100
26) Hexane	5.68	57	1120522	9.822	ppbv 100
27) Carbon Disulfide	4.53	76	1348785	8.762	ppbv 99
28) Methyl tert-Butyl Ether	5.02	73	1642197	8.441	ppbv 100
29) Chloroform	5.75	83	1707877	8.466	ppbv 100
30) Cyclohexane	7.14	84	902391	10.675	ppbv 100
31) cis-1,2-Dichloroethene	5.54	61	1150193	9.704	ppbv 100
32) 1,1,1-Trichloroethane	6.51	97	1590818	7.344	ppbv 100
34) 2-Butanone	5.23	43	1635381	9.342	ppbv 100
35) Carbon Tetrachloride	7.02	117	1682399	7.299	ppbv 100
36) Benzene	6.90	78	2207156	10.295	ppbv 100
37) 1,2-Dichloroethane	6.31	62	1393666	7.791	ppbv 100
38) Trichloroethene	7.85	130	822009	9.096	ppbv 100
39) 1,2-Dichloropropane	7.63	63	885846	9.967	ppbv 100
40) 1,4-Dioxane	7.84	88	349275	10.223	ppbv 100
41) Tetrahydrofuran	6.04	42	916809	10.040	ppbv 100
42) Bromodichloromethane	7.81	83	1855956	8.430	ppbv 100
43) Methyl Methacrylate	8.02	69	916048	10.623	ppbv 100

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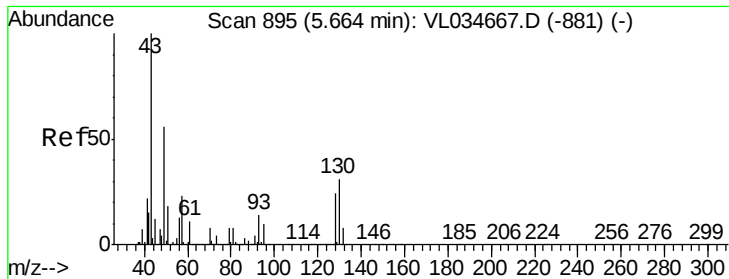
Manual Integrations
 APPROVED

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Quant Time: Feb 25 12:08:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3832795	9.853	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1158557	10.261	ppbv	100
46) cis-1,3-Dichloropropene	8.72	75	1327930	10.347	ppbv	100
47) 1,1,2-Trichloroethane	9.50	97	911461	9.469	ppbv	100
48) Dibromochloromethane	10.33	129	1523736	8.638	ppbv	100
49) Bromoform	13.08	173	1342894	8.671	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	2457061	9.843	ppbv	100
51) 2-Hexanone	10.15	43	2057043	10.468	ppbv	100
52) Tetrachloroethene	11.26	164	754609	8.762	ppbv	100
53) Toluene	9.83	91	2512717	10.669	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1319302	9.146	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.16	131	993225	7.789	ppbv	100
57) Chlorobenzene	12.18	112	1864742	8.774	ppbv	100
58) Ethyl Benzene	12.74	91	3350154	9.694	ppbv	100
59) m/p-Xylene	13.03	91	5555444m	18.184	ppbv	
60) o-Xylene	13.73	91	2722699	8.874	ppbv	100
61) Styrene	13.56	104	2121916	10.372	ppbv	100
62) Isopropylbenzene	14.71	105	3553660	8.938	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	1946172	8.201	ppbv	100
64) n-propylbenzene	15.60	120	934578	9.136	ppbv	100
65) tert-Butylbenzene	16.79	119	3097394	8.599	ppbv	100
66) Benzyl Chloride	17.03	91	1389981	9.203	ppbv	100
67) sec-Butylbenzene	17.34	105	4337554	8.762	ppbv	100
69) p-Isopropyltoluene	17.70	119	3532617	8.788	ppbv	100
70) n-Butylbenzene	18.60	91	3720256	8.719	ppbv	100
71) 2-Chlorotoluene	15.49	91	2789319	9.242	ppbv	100
72) 4-Ethyltoluene	15.88	105	3120431	9.259	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	2967772	9.012	ppbv	100
74) 1,2,4-Trimethylbenzene	16.81	105	2991039	8.204	ppbv	100
75) 1,3-Dichlorobenzene	17.05	146	1688878m	8.045	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	1701162	8.222	ppbv	100
77) 1,2-Dichlorobenzene	17.87	146	1615525	8.011	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	1217052	6.311	ppbv	100
79) Naphthalene	22.27	128	2580409	8.990	ppbv	100
80) Naphthalene, 2-methyl-	25.01	142	688162	6.232	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1433846	8.103	ppbv	100

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



#1

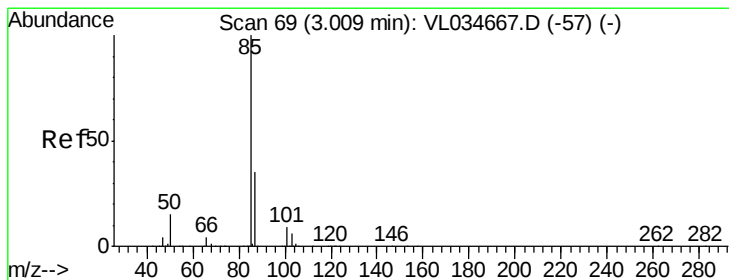
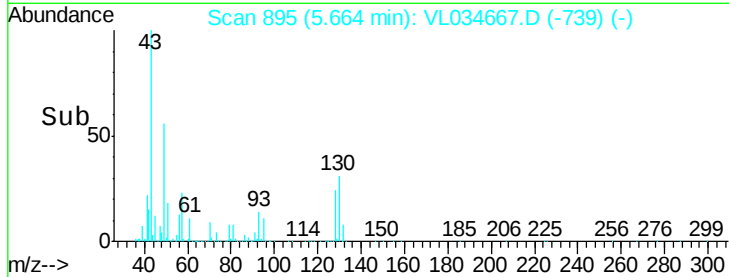
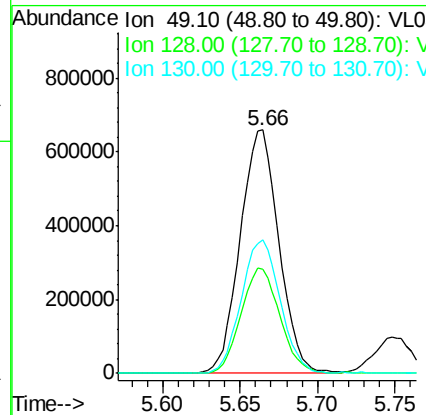
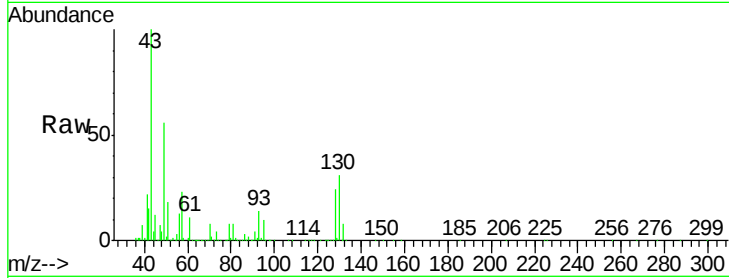
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
49	100		
128	43.6	21.9	65.5
130	55.7	27.9	83.7

Manual Integrations
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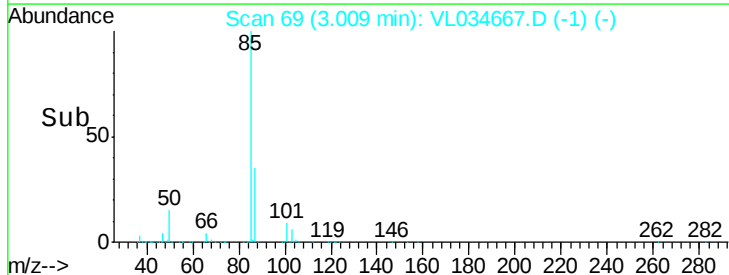
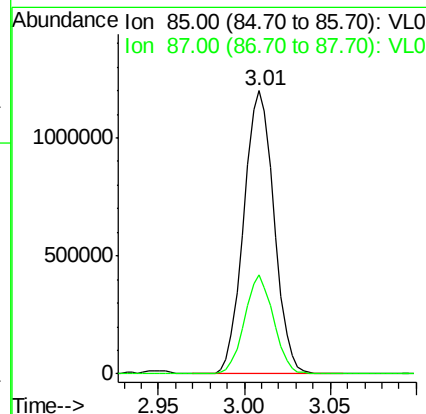
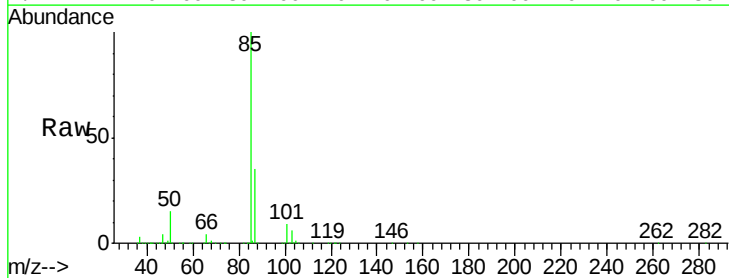
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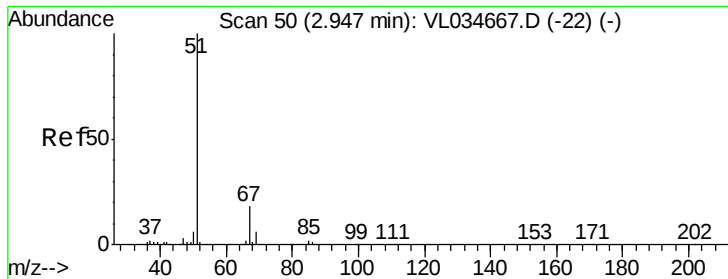


#2

Dichlorodifluoromethane
 Concen: 5.807 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.9	27.9	41.9





#3

Chlorodifluoromethane

Concen: 8.427 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Tot Ion: 51 Resp: 1165667

Ion Ratio Lower Upper

51 100

67 18.7 15.0 22.4

Instrument :

MSVOA_L

ClientSampleId :

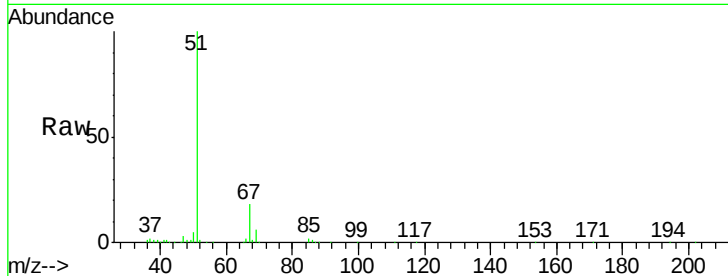
VSTDICCC010

Manual Integrations

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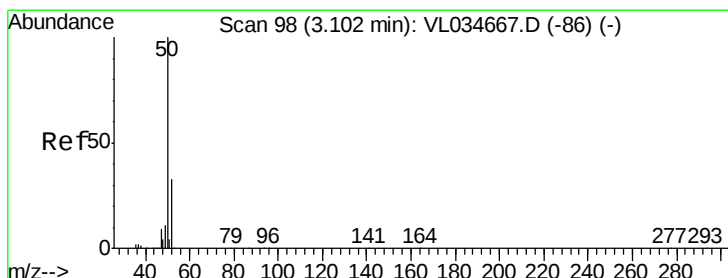
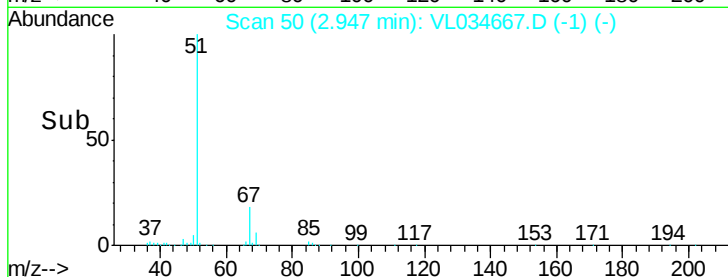
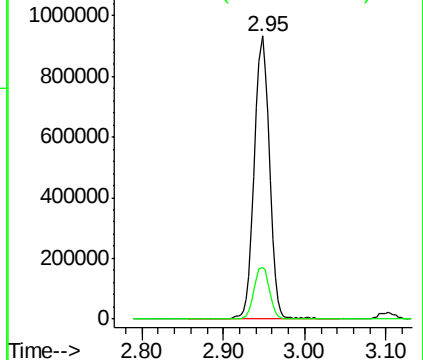
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.157 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034667.D

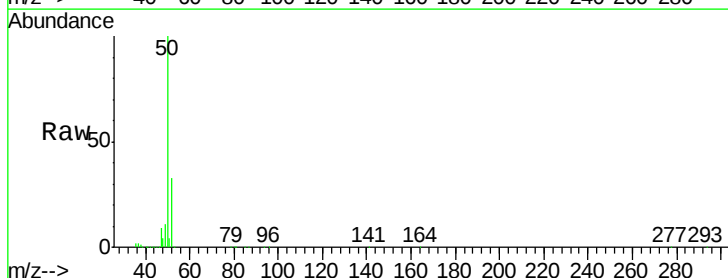
Acq: 25 Feb 2020 11:17

Tgt Ion: 50 Resp: 774952

Ion Ratio Lower Upper

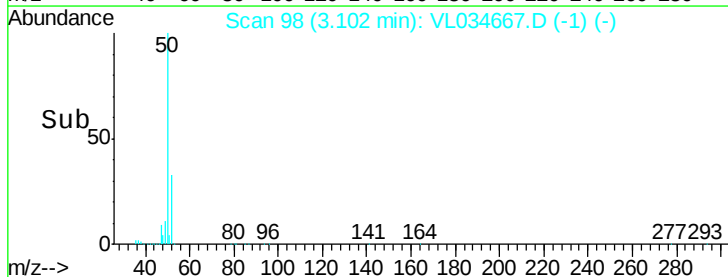
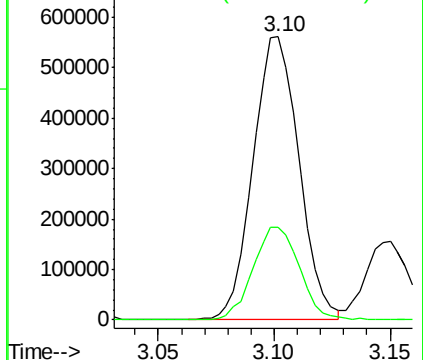
50 100

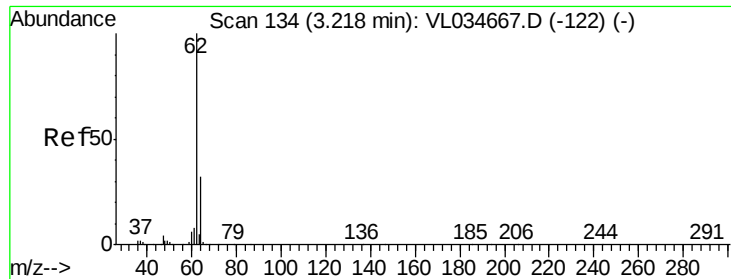
52 32.8 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.810 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 712135

Ion Ratio Lower Upper

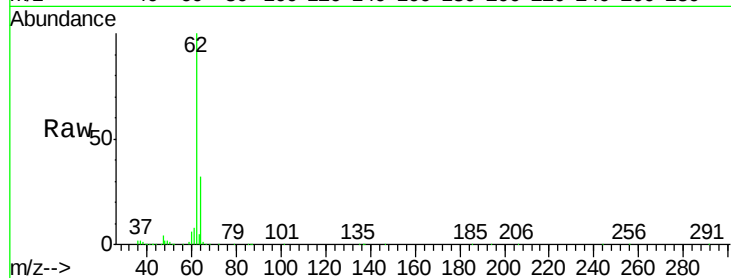
62 100

64 32.1 25.7 38.5

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.22

600000

500000

400000

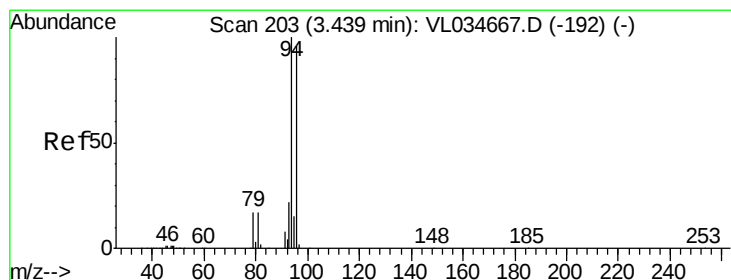
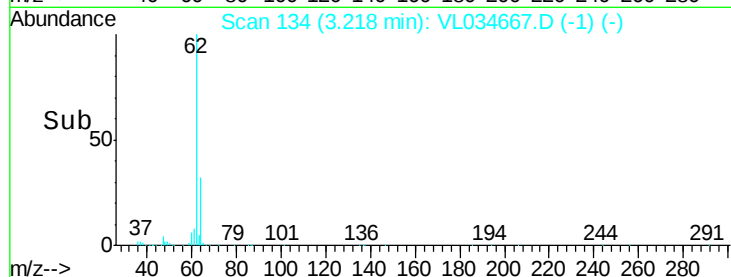
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 8.472 ppbv

RT: 3.44 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL034667.D

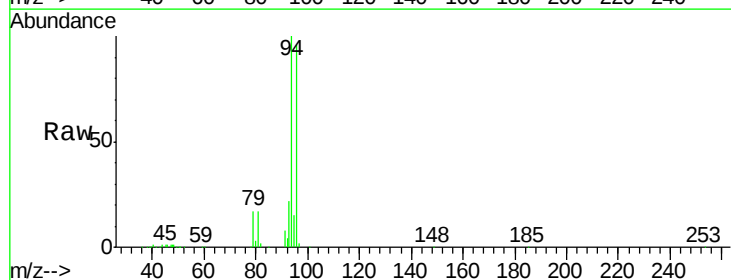
Acq: 25 Feb 2020 11:17

Tgt Ion: 94 Resp: 356199

Ion Ratio Lower Upper

94 100

96 96.2 77.0 115.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.44

300000

250000

200000

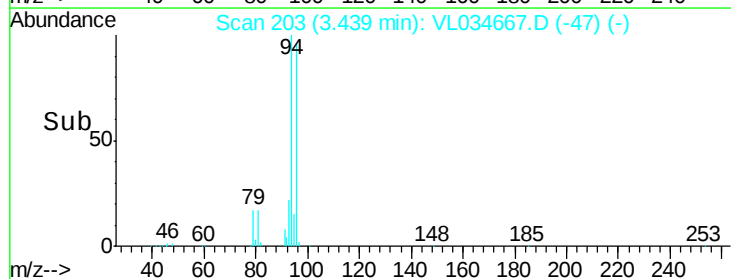
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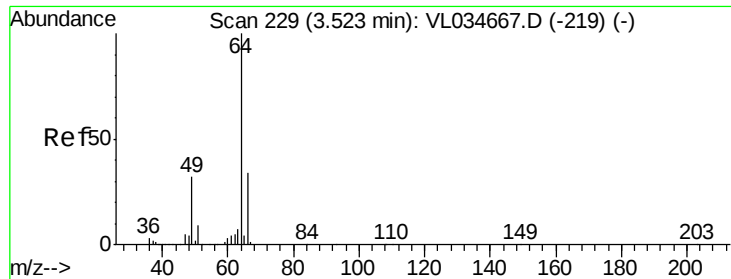
100000

50000

0

Time-->





#7

Chloroethane

Concen: 8.655 ppbv

RT: 3.52 min Scan# 229

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 260171

Ion Ratio Lower Upper

64 100

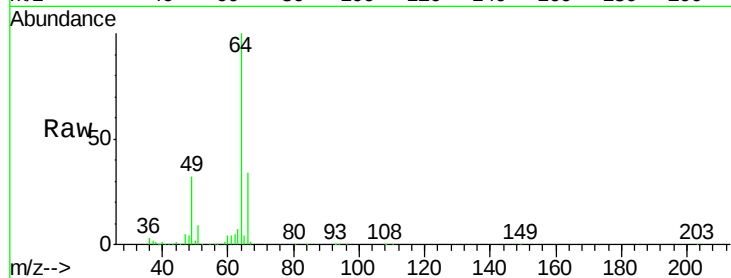
66 33.6 26.9 40.3

Manual Integrations

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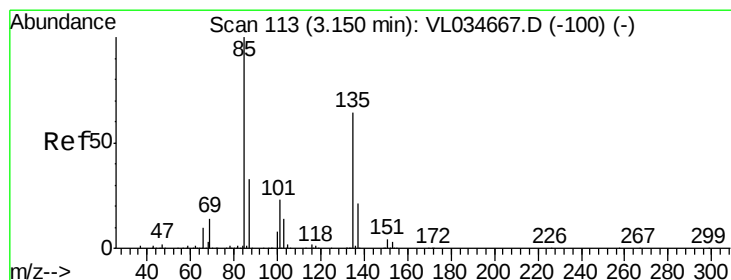
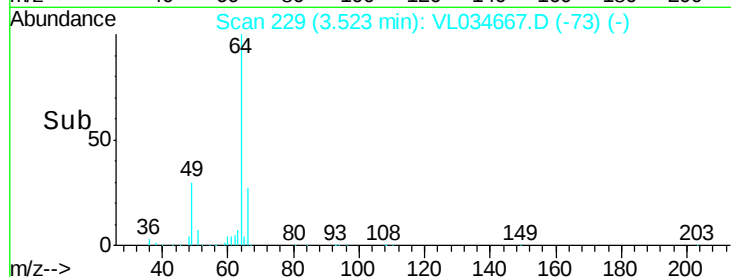
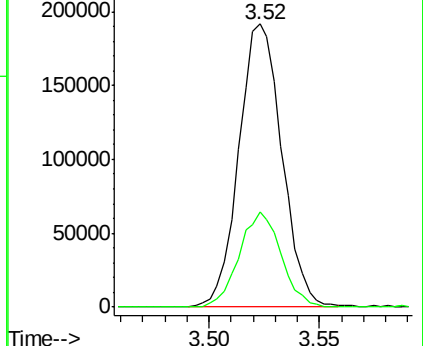
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 7.801 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL034667.D

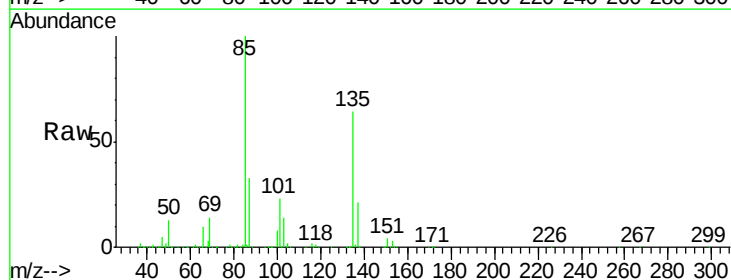
Acq: 25 Feb 2020 11:17

Tgt Ion: 85 Resp: 1537289

Ion Ratio Lower Upper

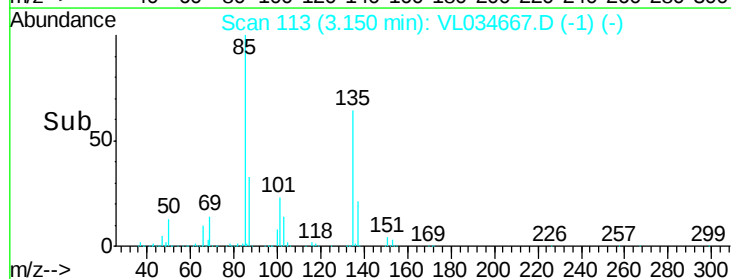
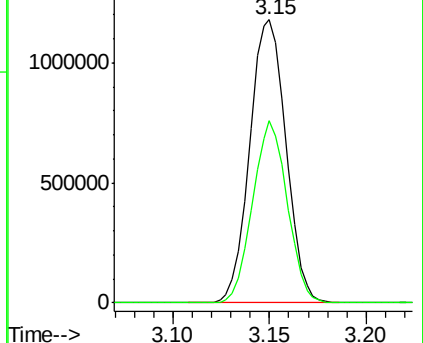
85 100

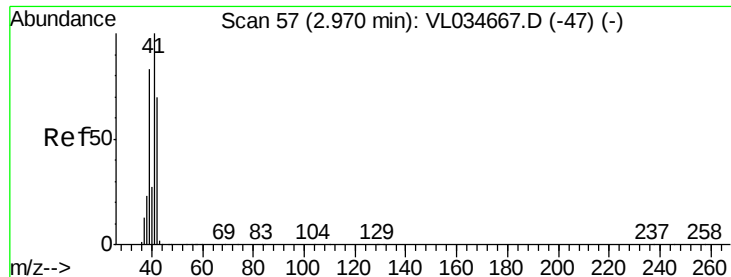
135 61.6 49.3 73.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.841 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 529954

Ion Ratio Lower Upper

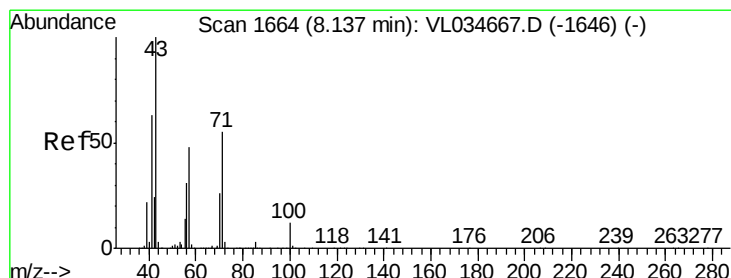
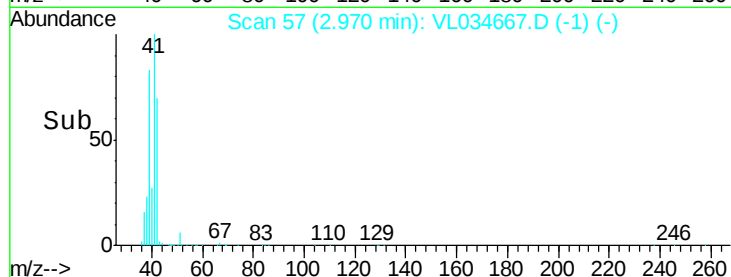
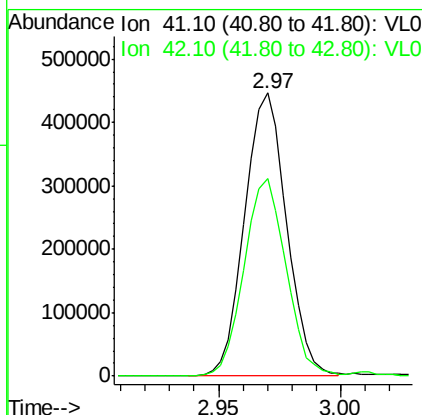
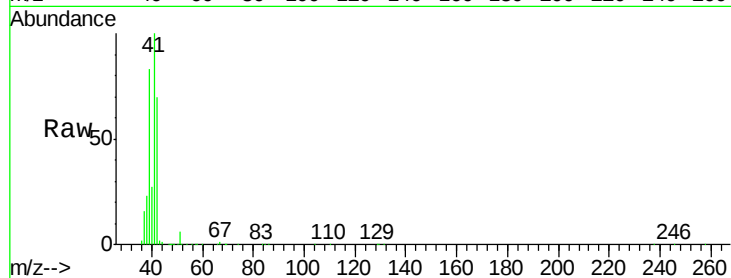
41 100

42 71.2 57.0 85.4

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#10

Heptane

Concen: 10.895 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VL034667.D

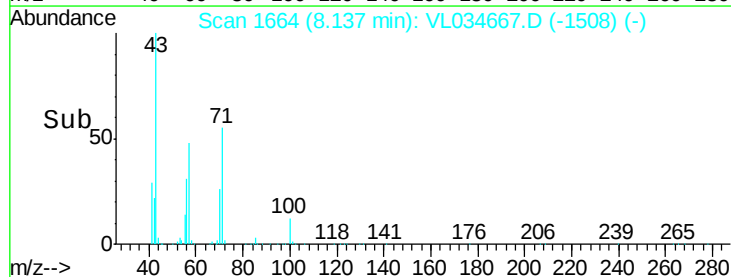
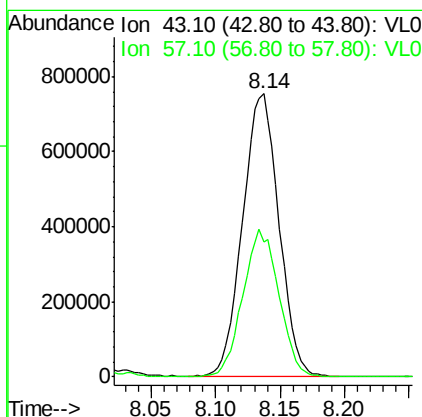
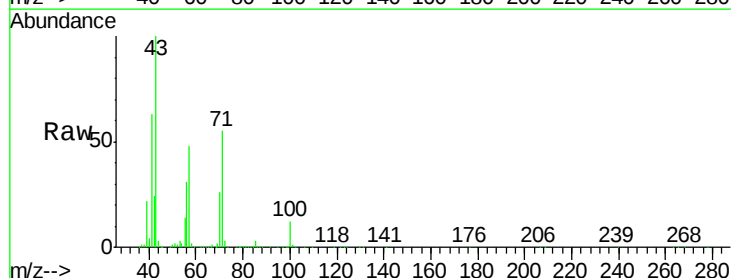
Acq: 25 Feb 2020 11:17

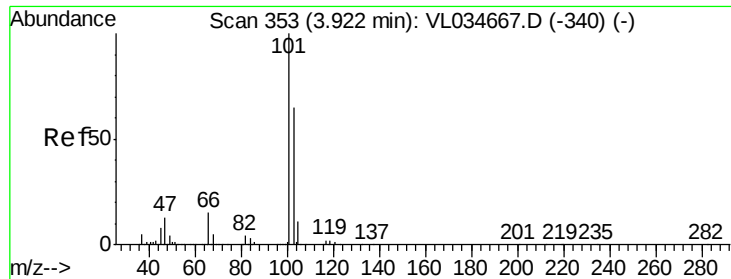
Tgt Ion: 43 Resp: 1476658

Ion Ratio Lower Upper

43 100

57 52.0 41.7 62.5





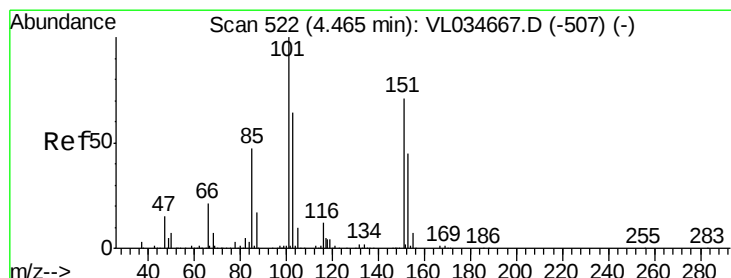
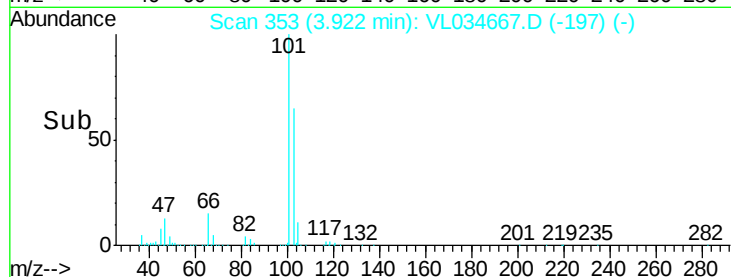
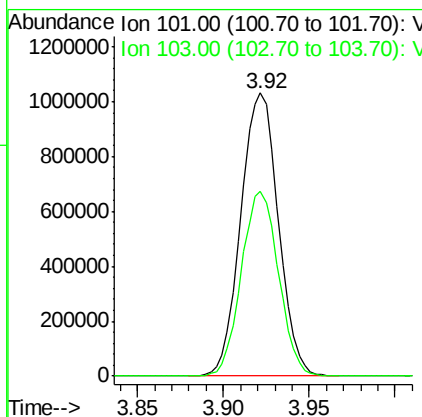
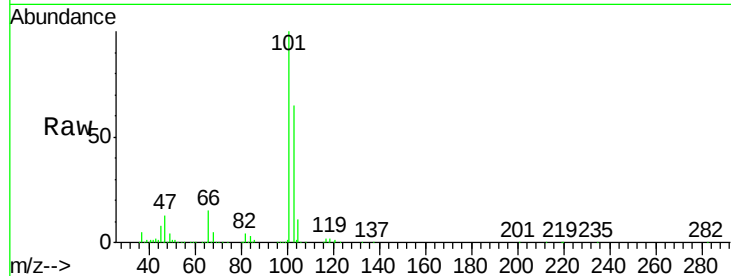
#11
 Trichlorofluoromethane
 Concen: 6.820 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 1561968
 Ion Ratio Lower Upper
 101 100
 103 65.4 52.3 78.5

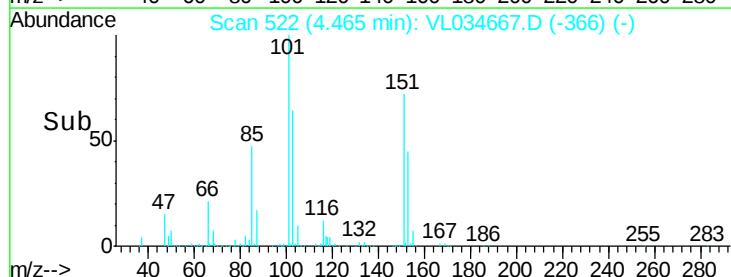
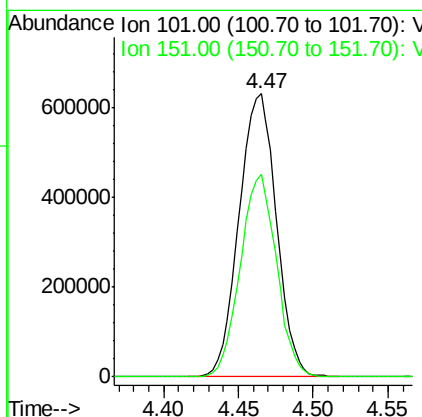
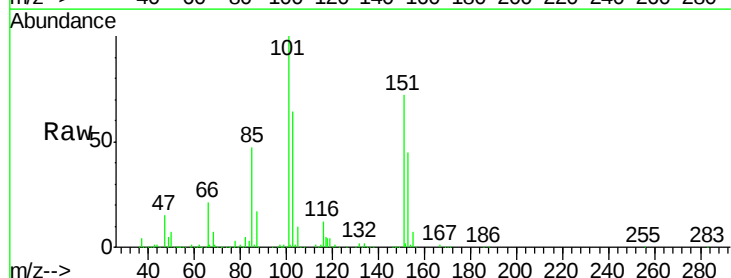
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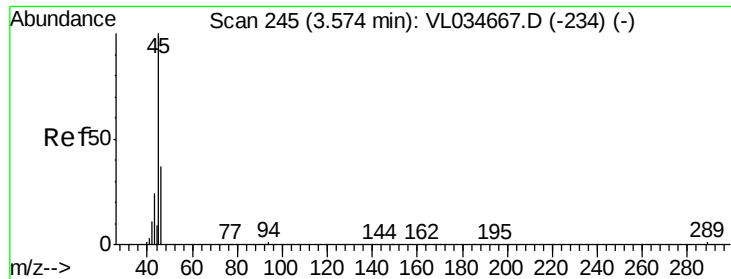
MMDadoda
 2/26/2020 12:38:40 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 7.352 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Tgt Ion:101 Resp: 1098658
 Ion Ratio Lower Upper
 101 100
 151 69.4 55.5 83.3





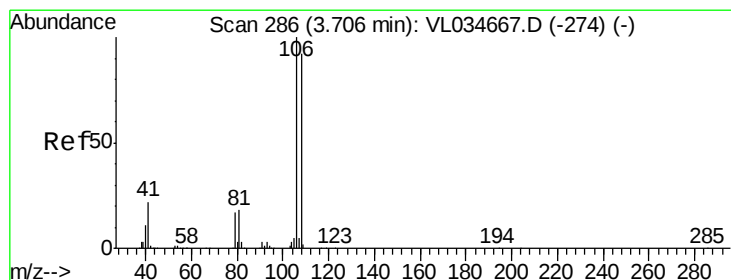
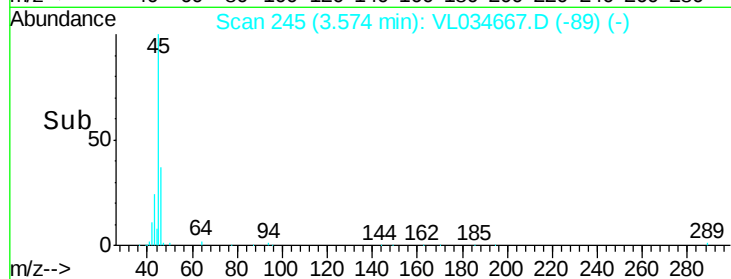
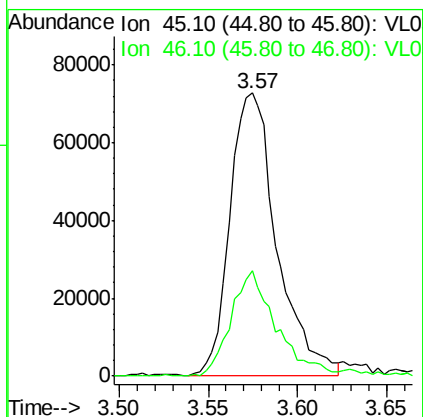
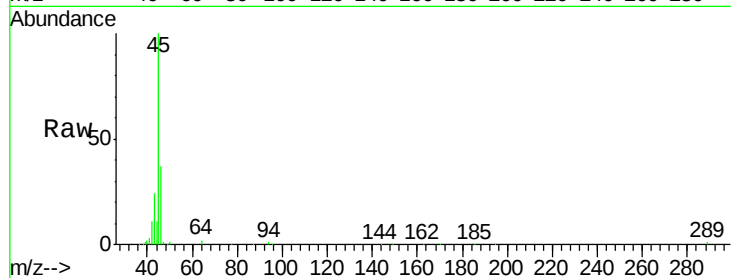
#13
Ethanol
Concen: 9.246 ppbv
RT: 3.57 min Scan# 245
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.2	15.1	60.5

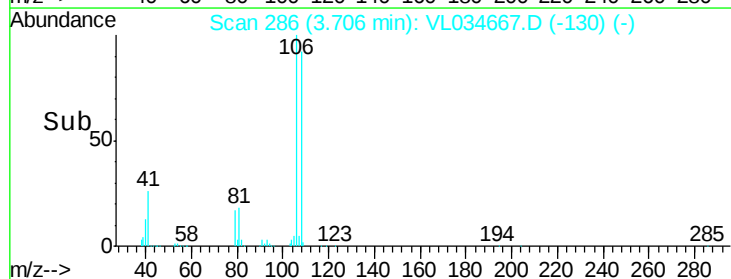
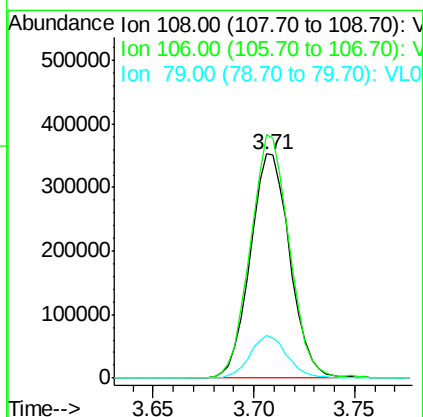
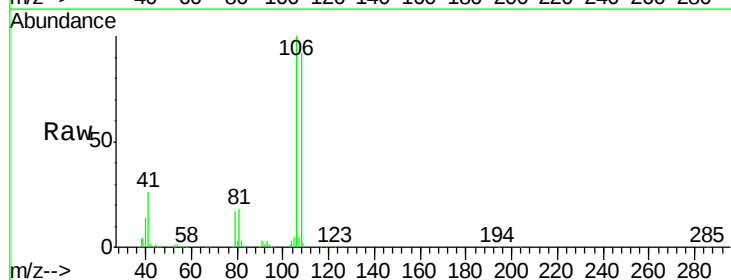
Manual Integrations
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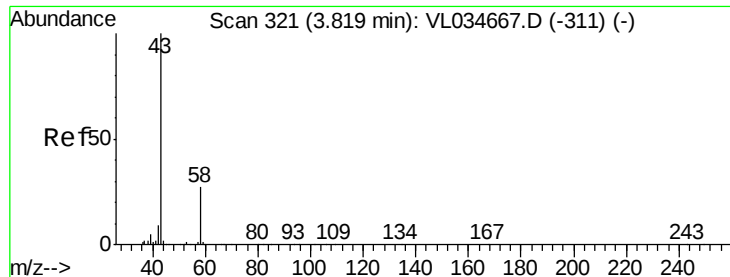
MMDadoda
2/26/2020 12:38:40 PM



#14
Bromoethene
Concen: 8.284 ppbv
RT: 3.71 min Scan# 286
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.7	86.4	129.6
79	18.4	14.6	22.0





#15

Acetone

Concen: 7.516 ppbv

RT: 3.82 min Scan# 321

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1264508

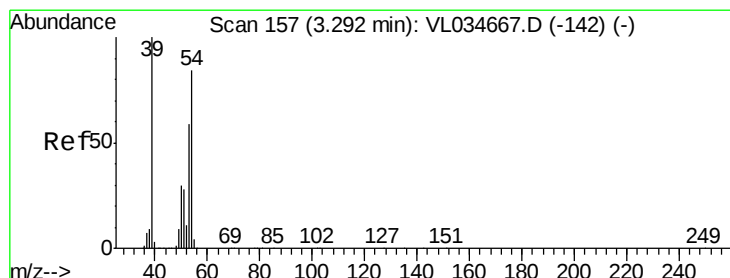
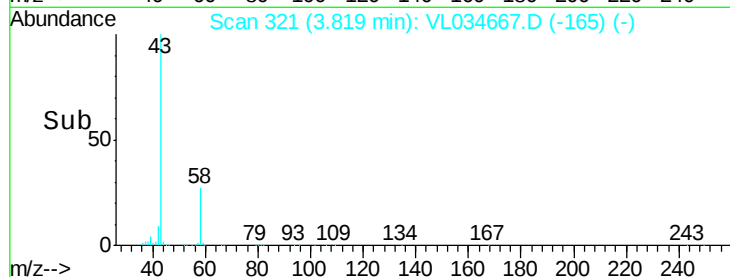
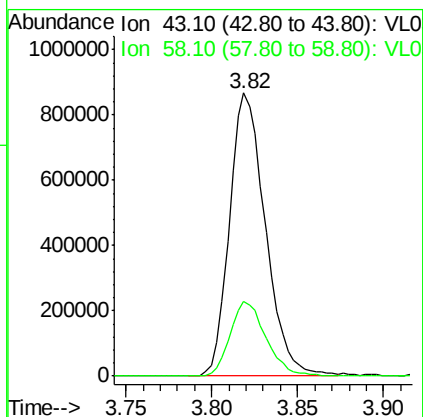
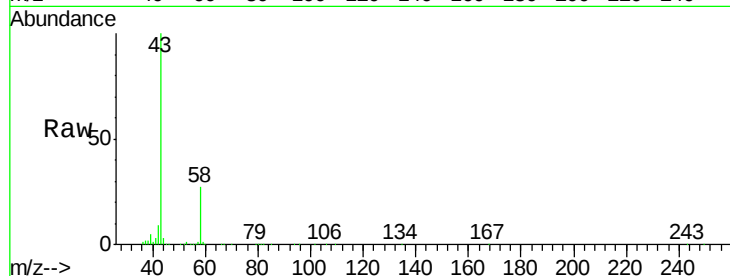
Ion Ratio Lower Upper

43 100

58 26.4 21.4 32.0

Manual Integrations
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#16

1,3-Butadiene

Concen: 9.547 ppbv

RT: 3.29 min Scan# 157

Delta R.T. 0.00 min

Lab File: VL034667.D

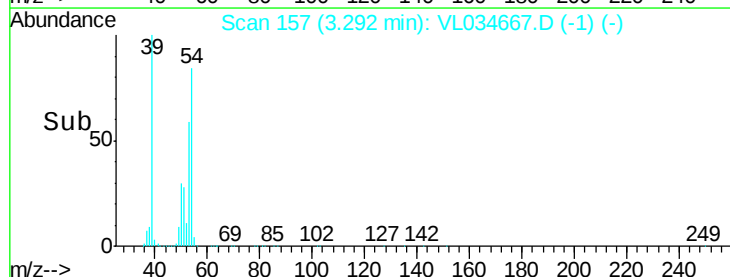
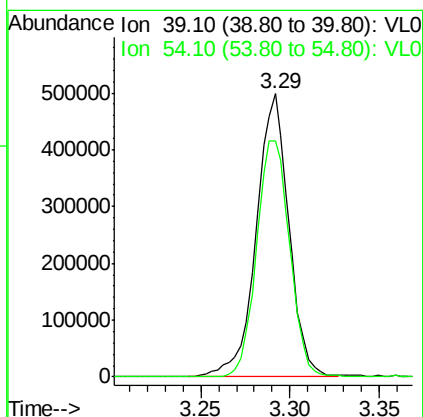
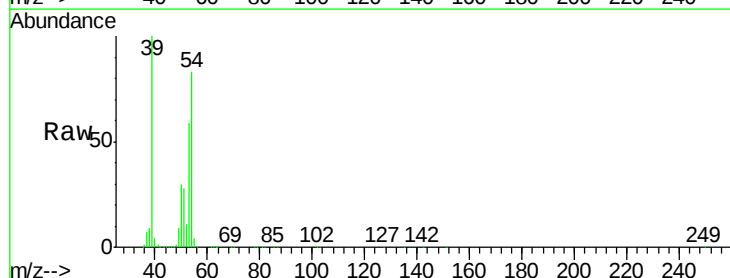
Acq: 25 Feb 2020 11:17

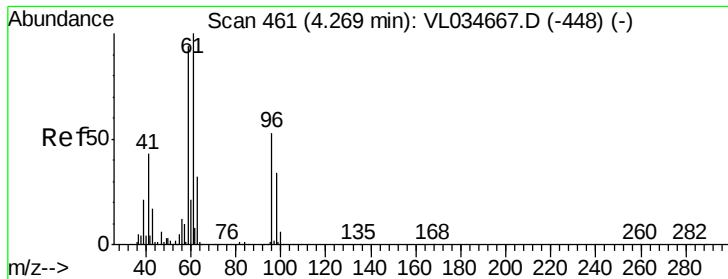
Tgt Ion: 39 Resp: 637774

Ion Ratio Lower Upper

39 100

54 85.1 68.2 102.2





#17

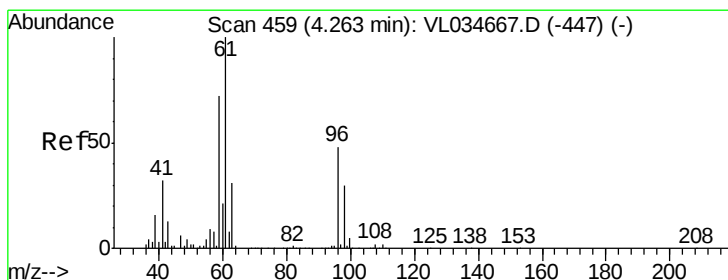
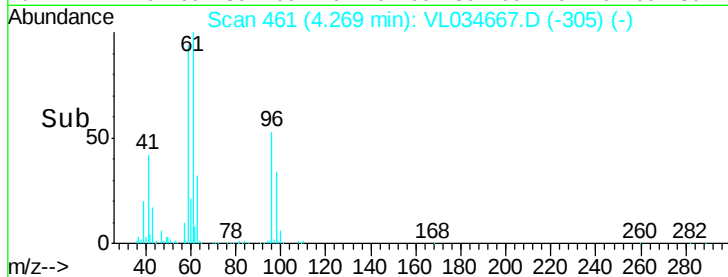
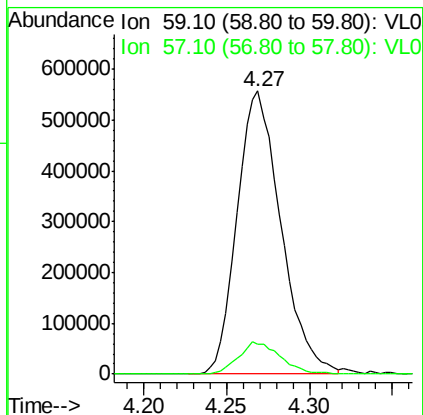
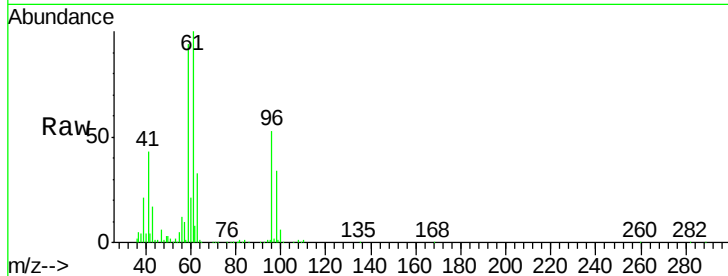
tert-Butyl alcohol
Concen: 8.277 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 59 Resp: 1024086
Ion Ratio Lower Upper
59 100
57 11.0 8.8 13.2

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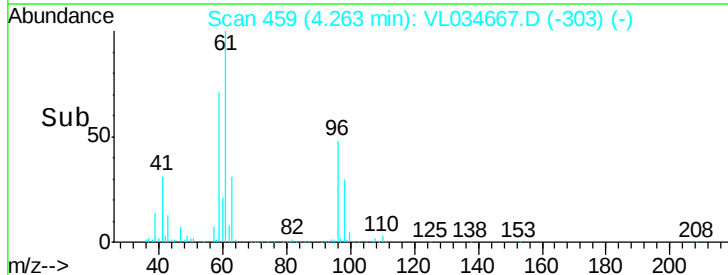
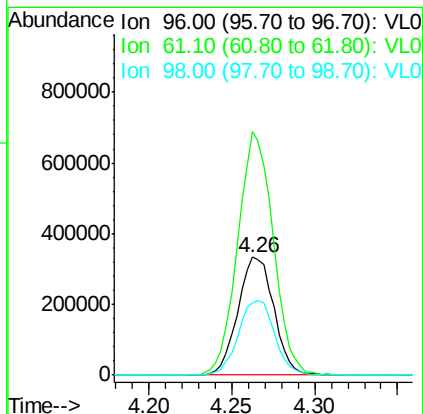
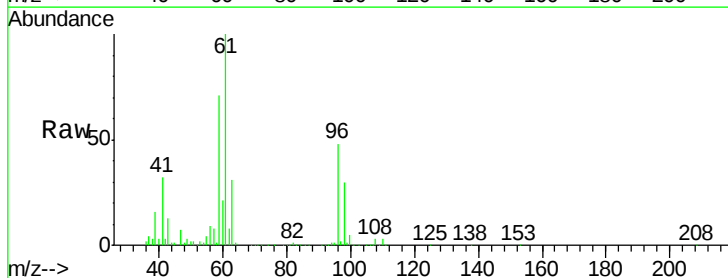
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2/26/2020 12:38:40 PM

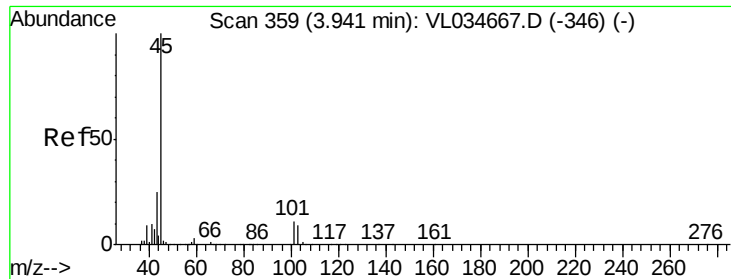


#18

1,1-Dichloroethene
Concen: 7.986 ppbv
RT: 4.26 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion: 96 Resp: 503746
Ion Ratio Lower Upper
96 100
61 206.6 165.3 247.9
98 61.1 48.9 73.3





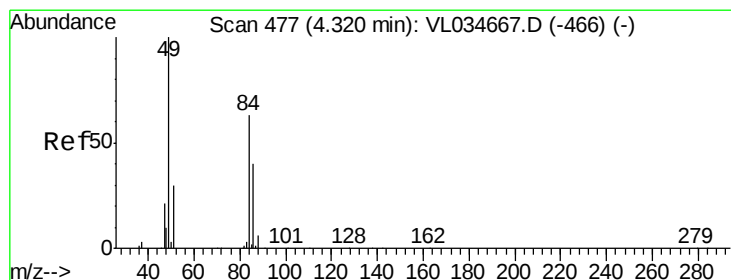
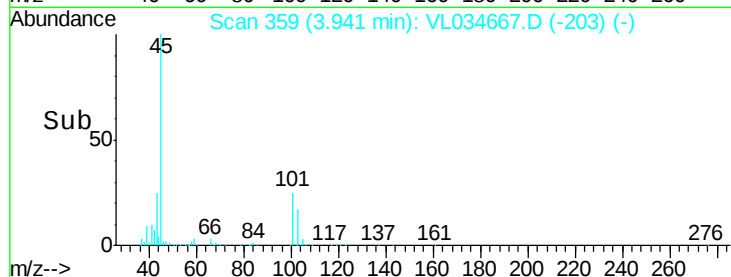
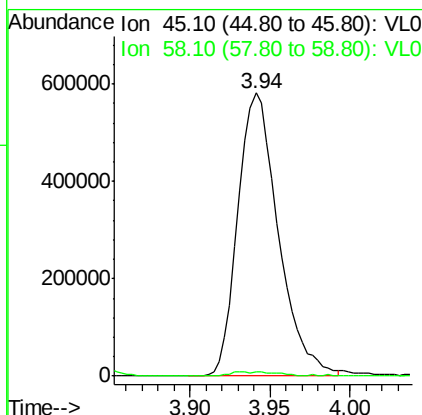
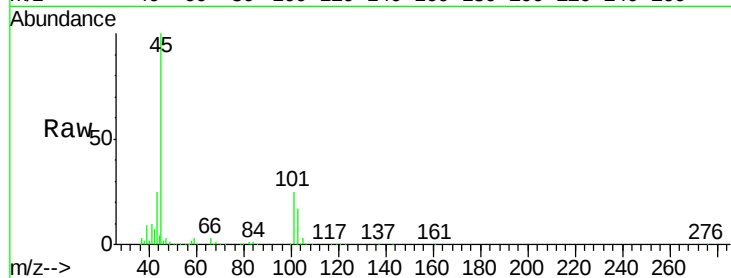
#19
Isopropyl Alcohol
Concen: 10.213 ppbv
RT: 3.94 min Scan# 359
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 45 Resp: 1002646
Ion Ratio Lower Upper
45 100
58 2.0 1.8 2.8

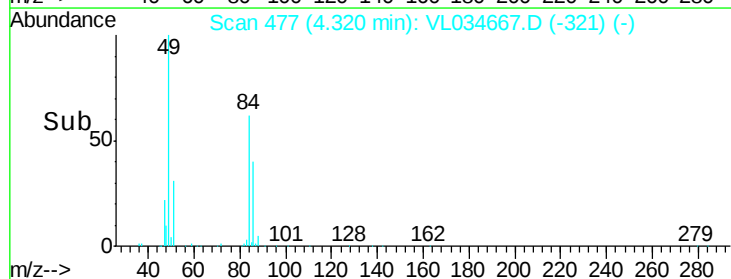
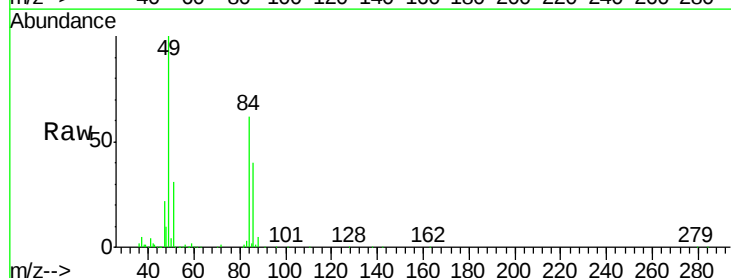
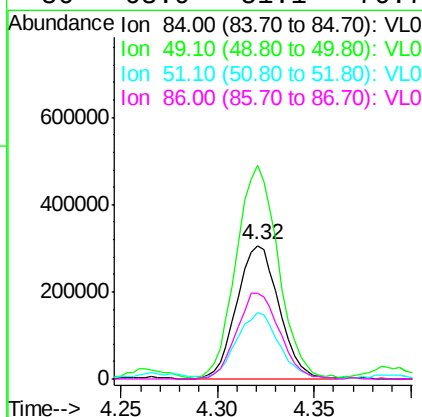
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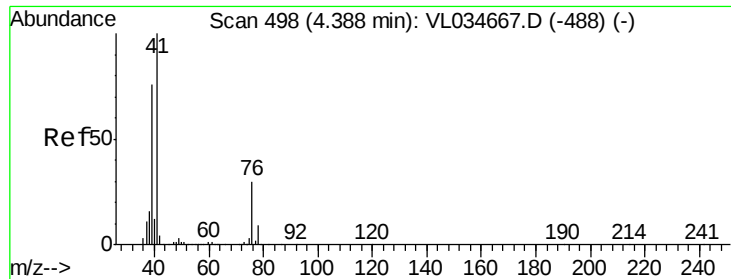
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#20
Methylene Chloride
Concen: 7.275 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion: 84 Resp: 466050
Ion Ratio Lower Upper
84 100
49 159.5 127.6 191.4
51 49.6 39.7 59.5
86 63.9 51.1 76.7





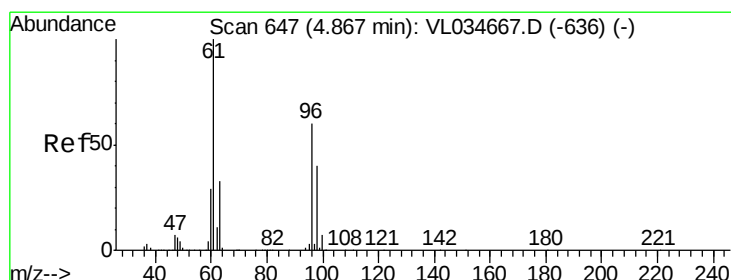
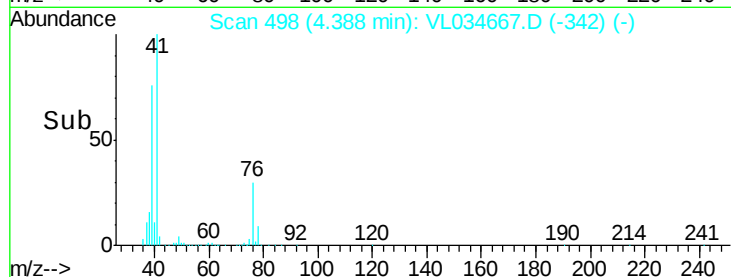
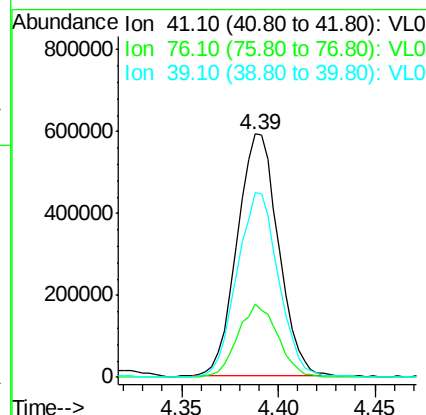
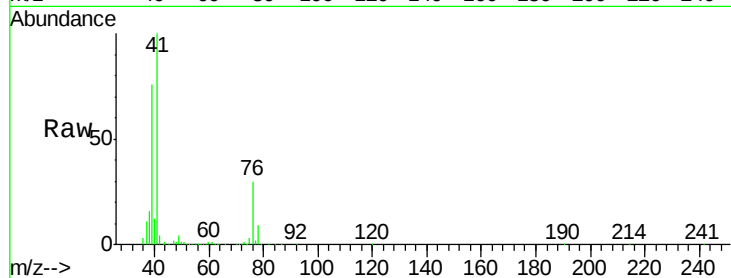
#21
Allvl Chloride
Concen: 8.420 ppbv
RT: 4.39 min Scan# 498
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.5	23.6	35.4
39	76.5	61.6	92.4

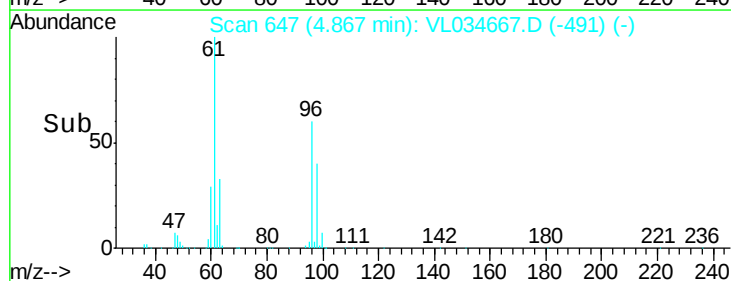
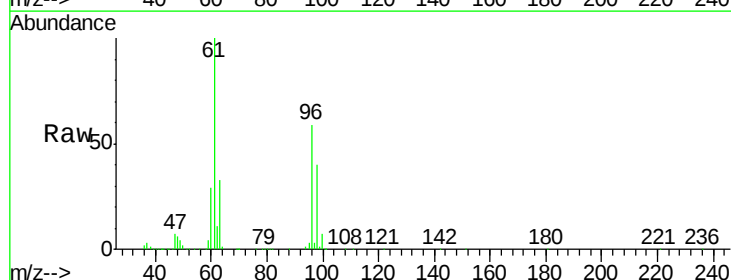
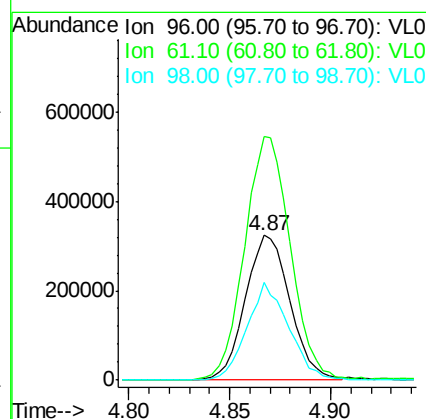
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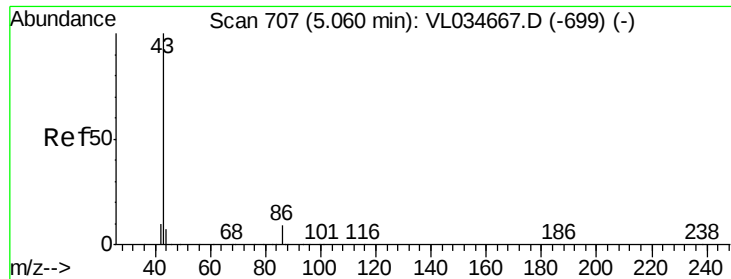
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 7.602 ppbv
RT: 4.87 min Scan# 647
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.9	134.3	201.5
98	67.3	53.8	80.8





#23

Vinyl Acetate

Concen: 9.585 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1839710

Ion Ratio Lower Upper

43 100

86 7.9 6.3 9.5

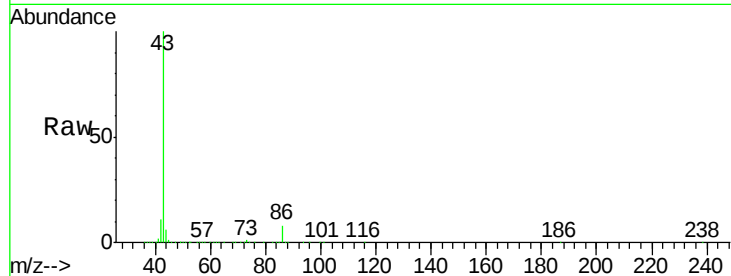
42 10.7 8.6 12.8

44 6.1 4.9 7.3

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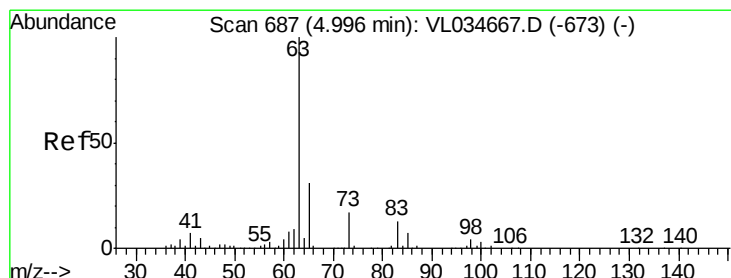
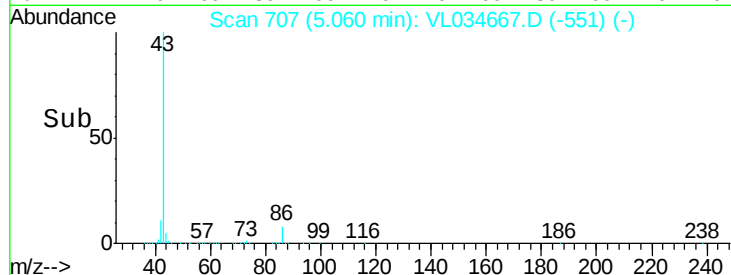
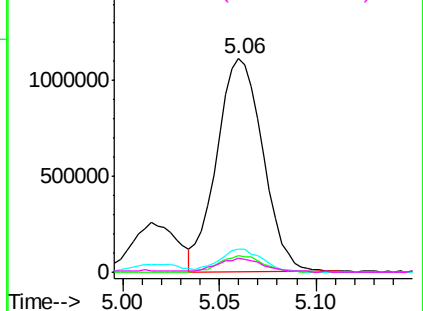


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.927 ppbv

RT: 5.00 min Scan# 687

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

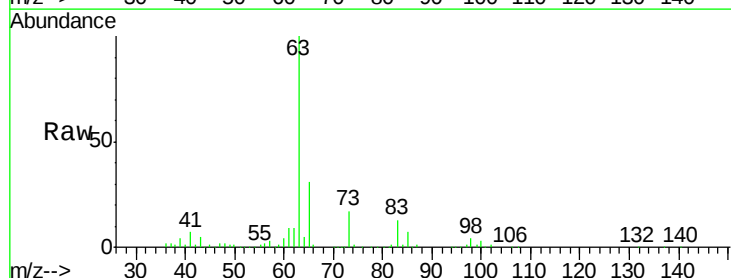
Tgt Ion: 63 Resp: 1430512

Ion Ratio Lower Upper

63 100

98 4.4 2.2 6.6

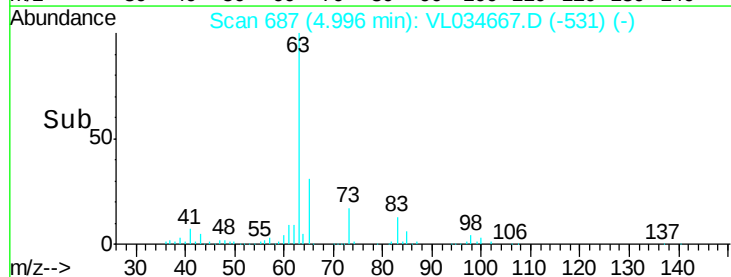
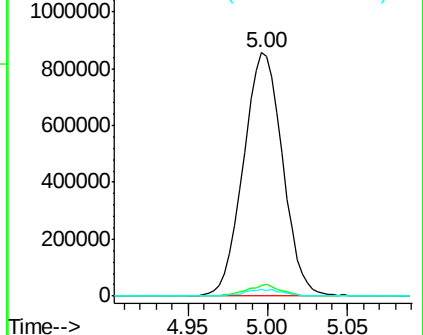
100 2.8 1.4 4.2

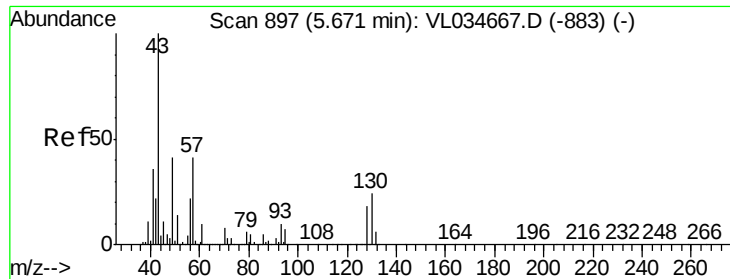


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.129 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2486304

Ion Ratio Lower Upper

43 100

45 10.4 8.3 12.5

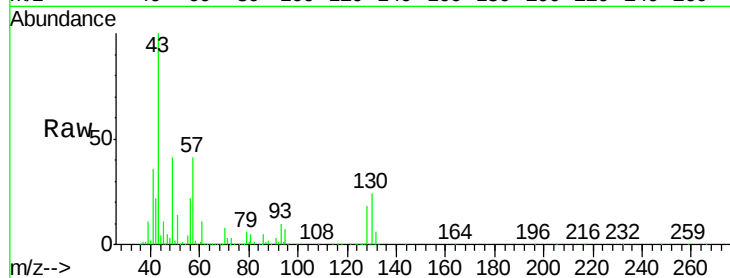
61 9.7 7.8 11.6

70 7.5 6.0 9.0

Manual Integrations
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MMDadoda

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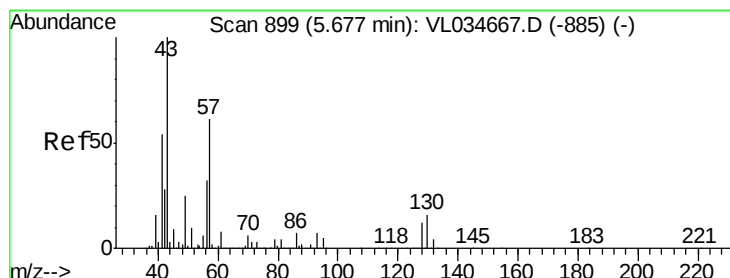
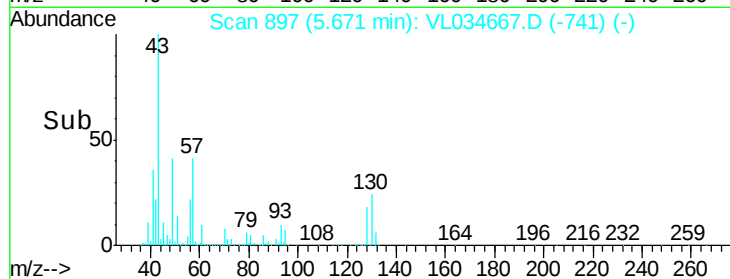
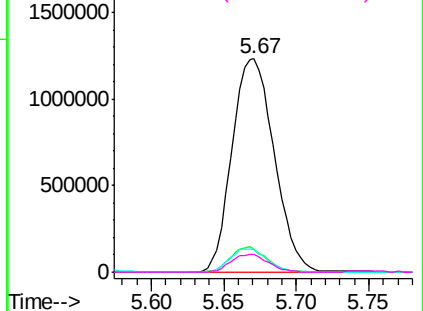


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.822 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Tgt Ion: 57 Resp: 1120522

Ion Ratio Lower Upper

57 100

41 90.0 72.0 108.0

43 223.4 178.7 268.1

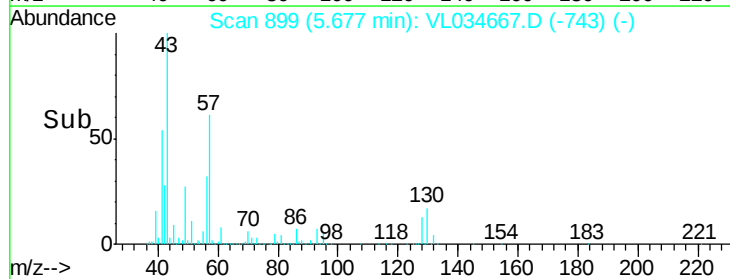
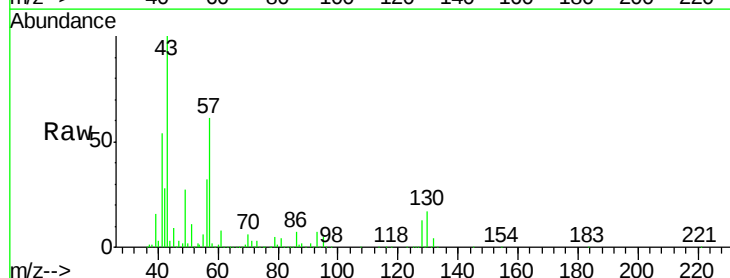
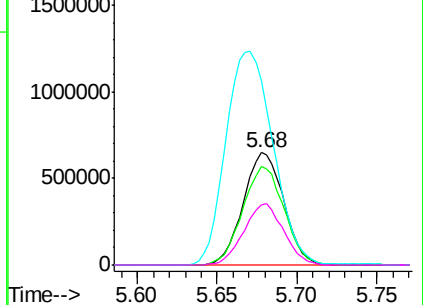
56 53.9 43.1 64.7

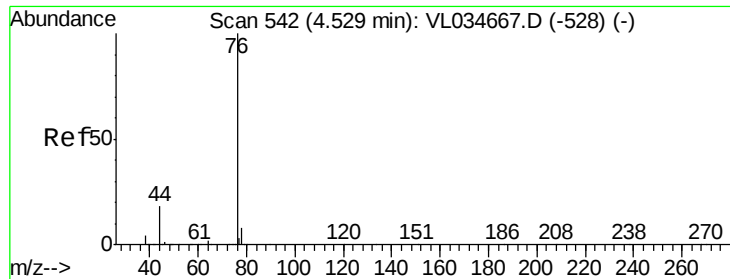
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 8.762 ppbv

RT: 4.53 min Scan# 542

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1348785

Ion Ratio Lower Upper

76 100

44 19.4 15.0 22.4

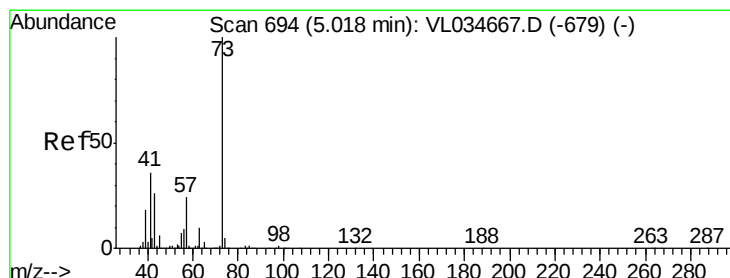
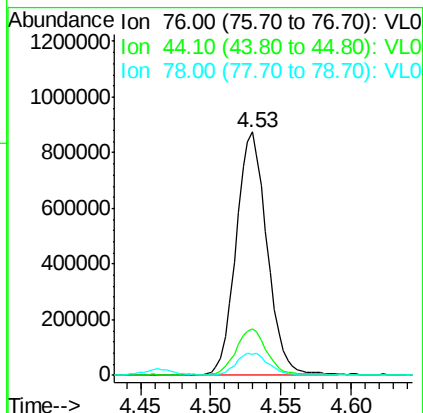
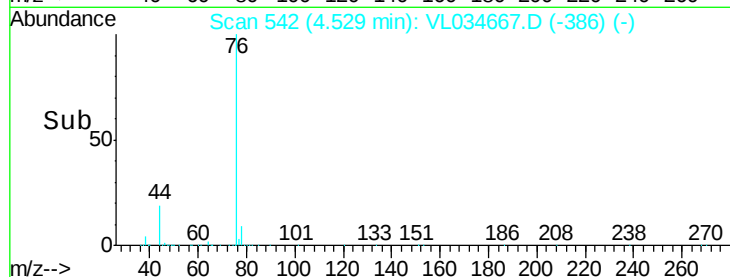
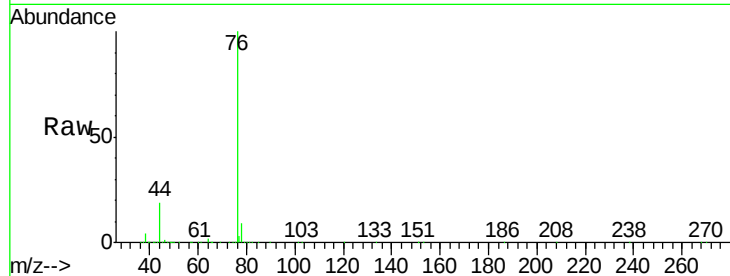
78 9.4 7.7 11.5

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#28

Methyl tert-Butyl Ether

Concen: 8.441 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.00 min

Lab File: VL034667.D

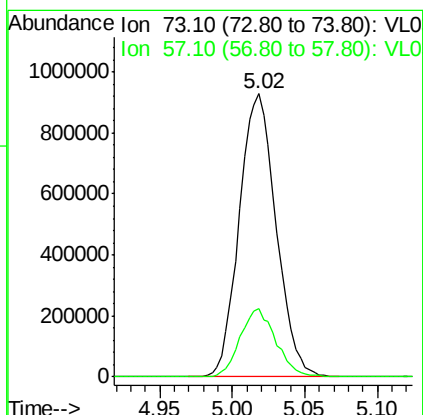
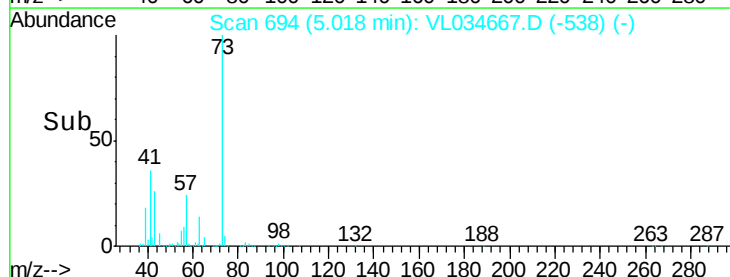
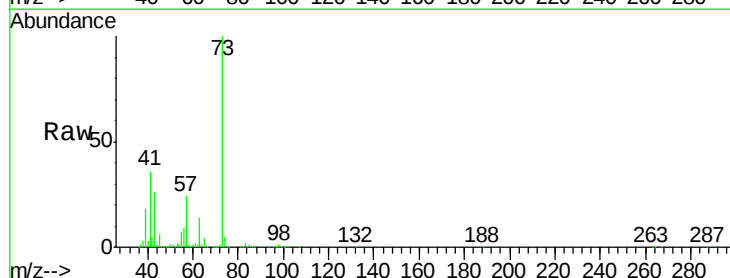
Acq: 25 Feb 2020 11:17

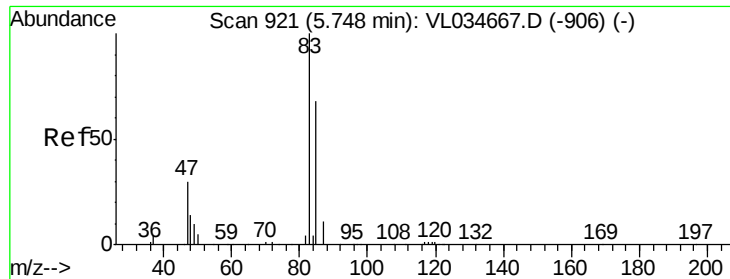
Tgt Ion: 73 Resp: 1642197

Ion Ratio Lower Upper

73 100

57 23.4 18.7 28.1





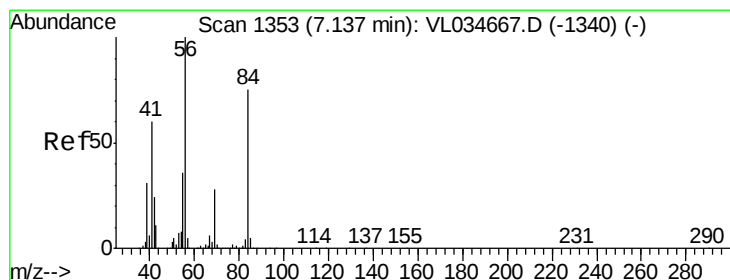
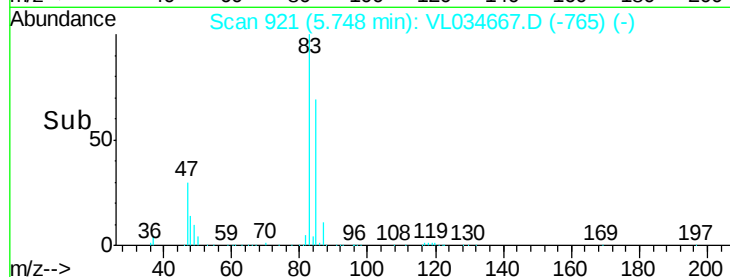
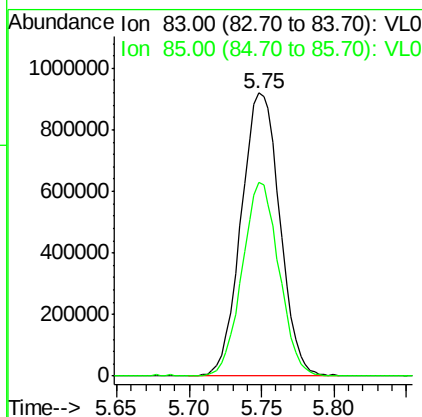
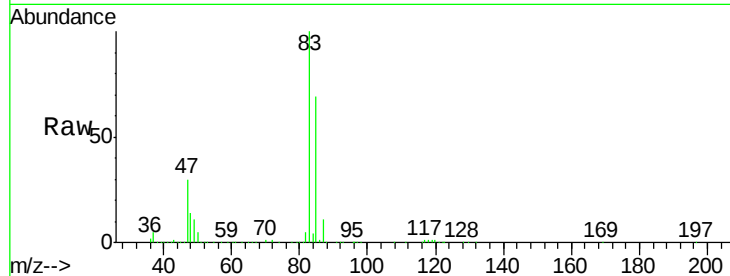
#29
Chloroform
Concen: 8.466 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1707877
Ion Ratio Lower Upper
83 100
85 68.4 54.7 82.1

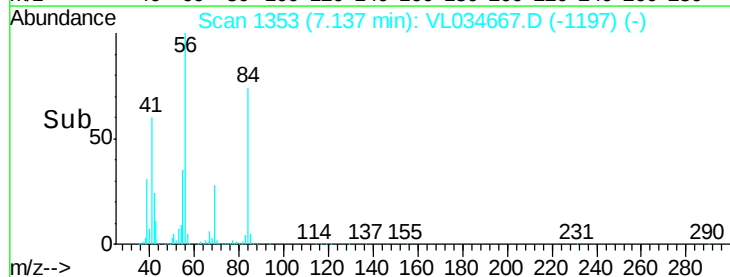
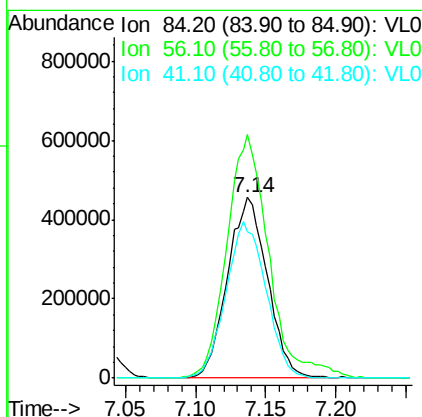
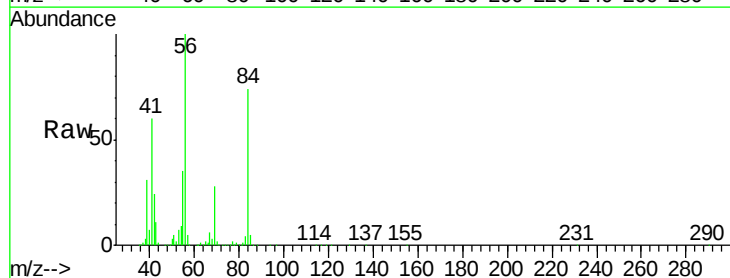
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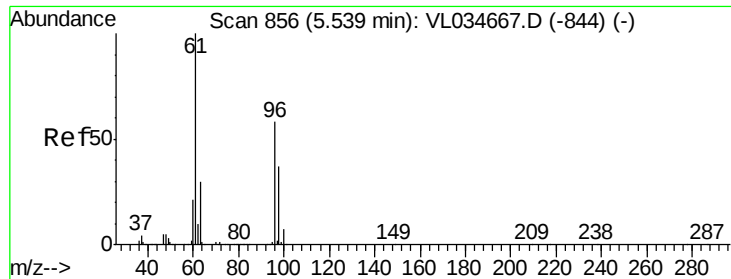
MMDadoda
2/26/2020 12:38:40 PM



#30
Cyclohexane
Concen: 10.675 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion: 84 Resp: 902391
Ion Ratio Lower Upper
84 100
56 141.8 113.4 170.2
41 86.9 69.5 104.3





#31

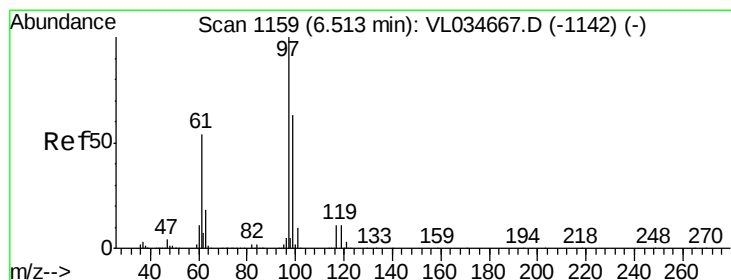
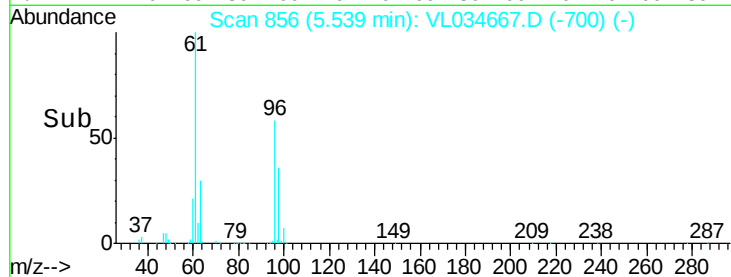
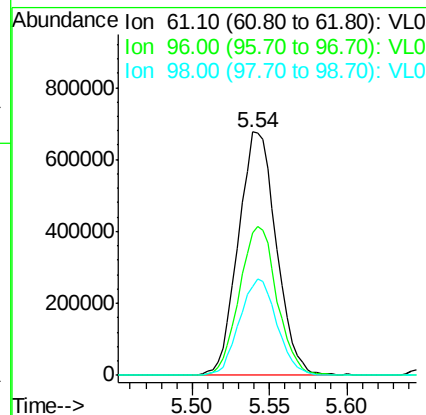
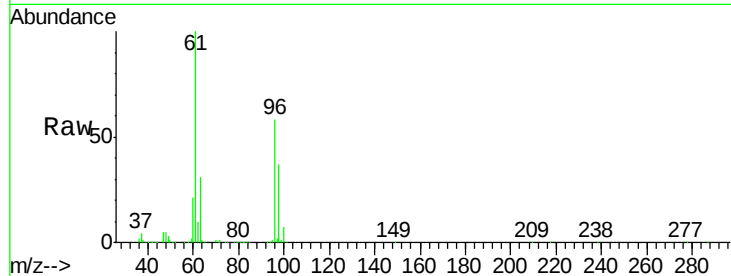
cis-1,2-Dichloroethene
Concen: 9.704 ppbv
RT: 5.54 min Scan# 856
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.2	46.6	69.8
98	36.6	29.3	43.9

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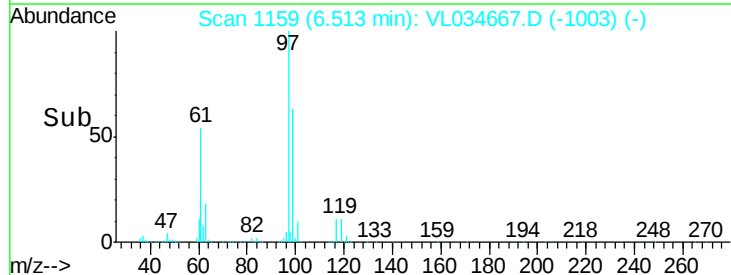
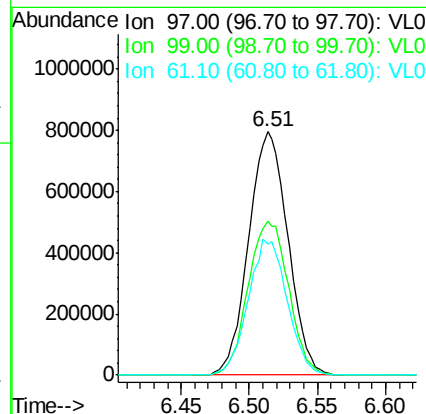
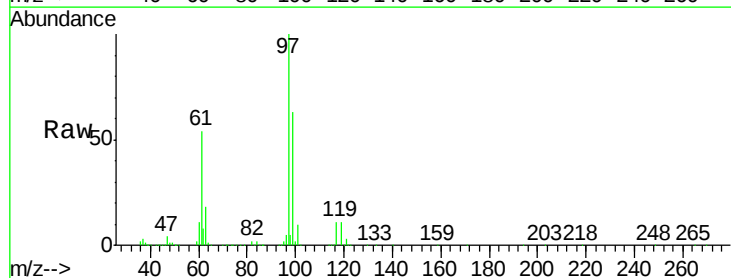
MMDadoda
2/26/2020 12:38:40 PM

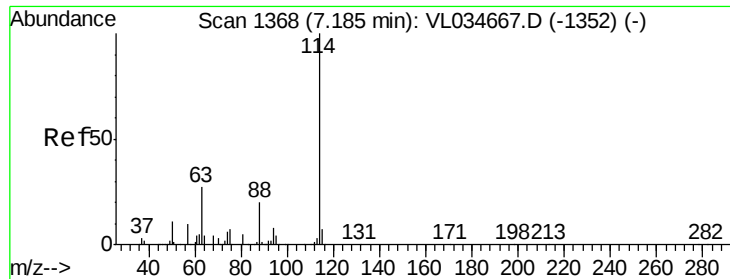


#32

1,1,1-Trichloroethane
Concen: 7.344 ppbv
RT: 6.51 min Scan# 1159
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.2	78.2
61	55.6	44.5	66.7





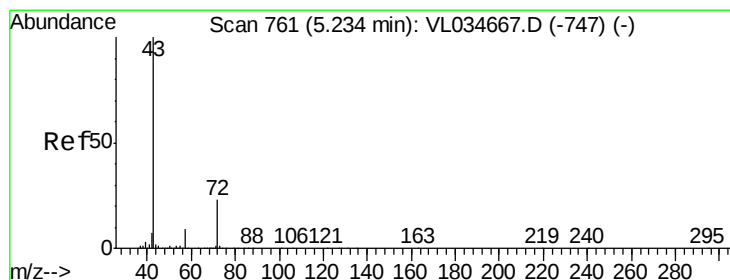
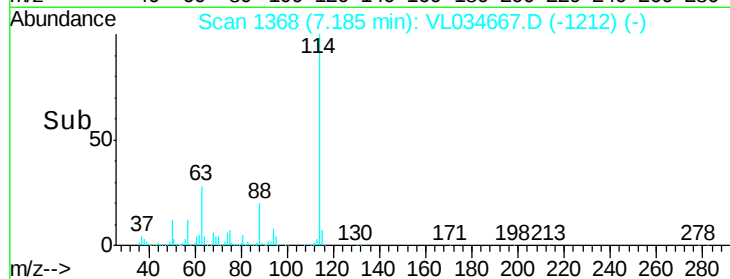
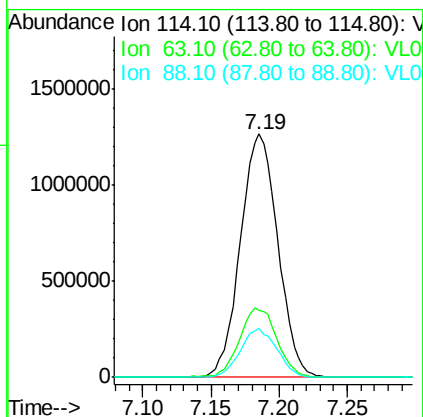
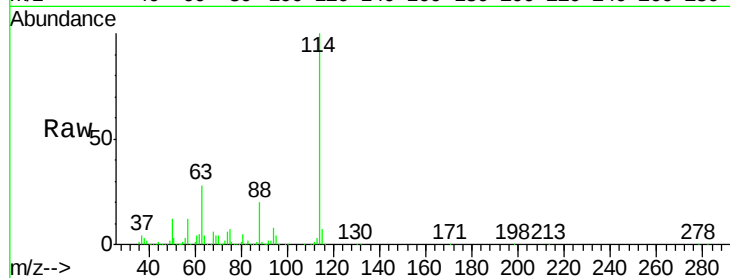
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.9	23.1	34.7
88	19.5	15.6	23.4

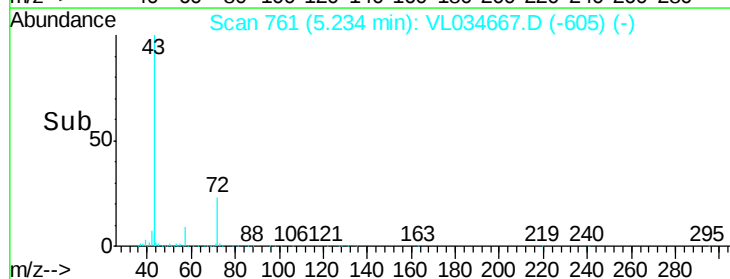
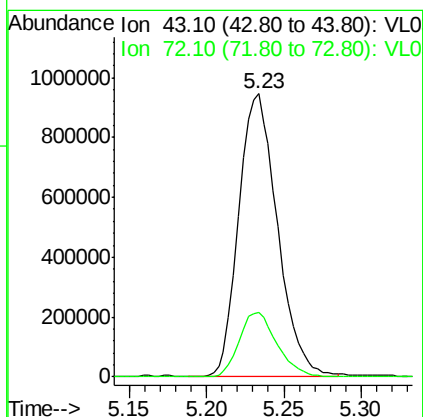
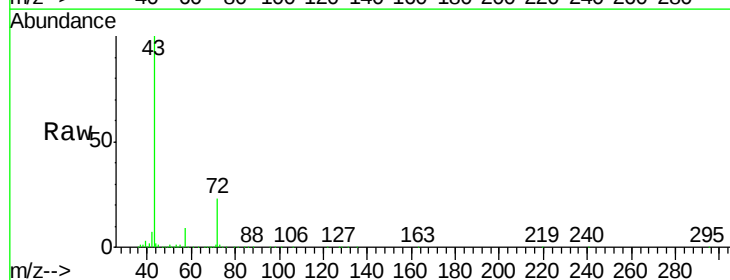
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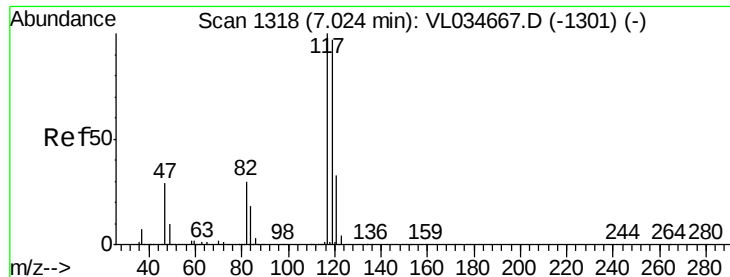
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#34
 2-Butanone
 Concen: 9.342 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.3	17.8	26.8





#35

Carbon Tetrachloride

Concen: 7.299 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 1682399

Ion Ratio Lower Upper

117 100

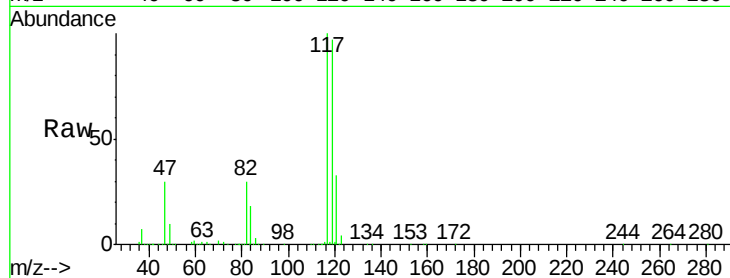
119 96.5 77.2 115.8

121 32.6 26.1 39.1

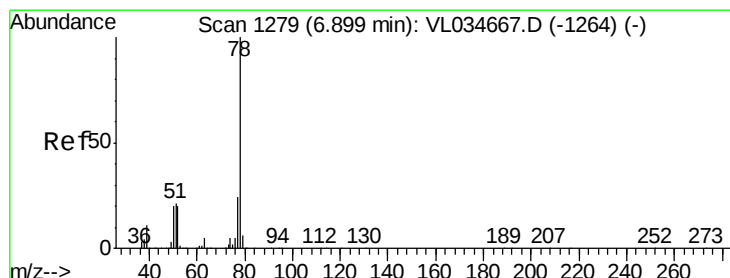
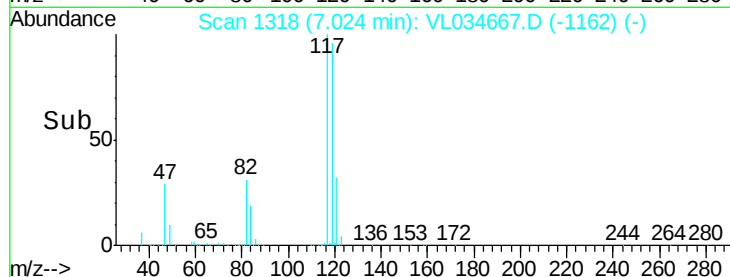
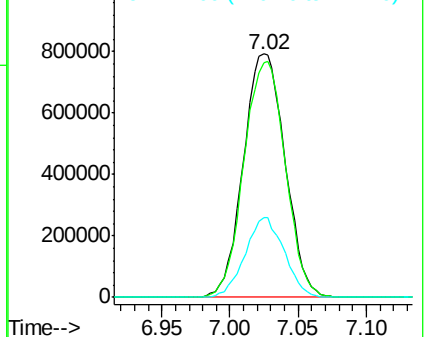
Manual Integrations
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.295 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

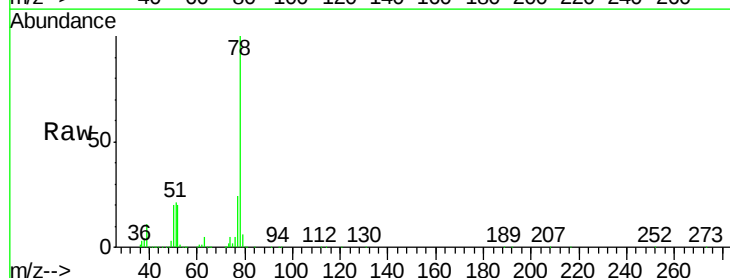
Tgt Ion: 78 Resp: 2207156

Ion Ratio Lower Upper

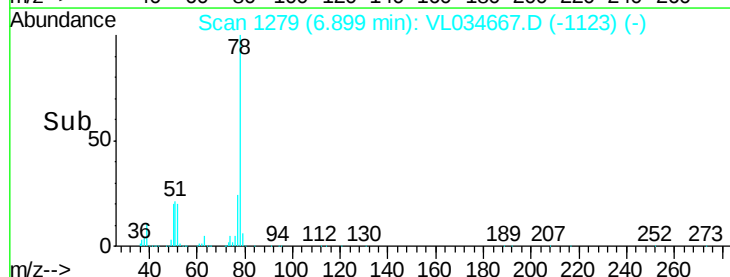
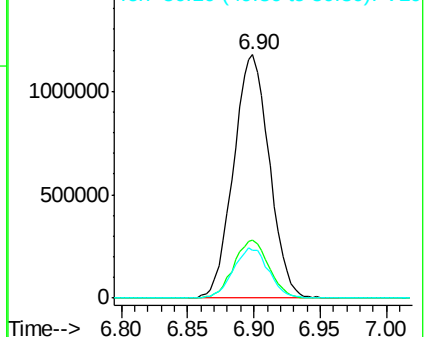
78 100

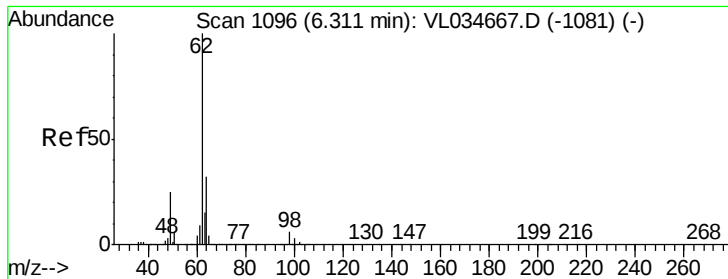
77 24.0 19.2 28.8

50 19.9 15.9 23.9



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





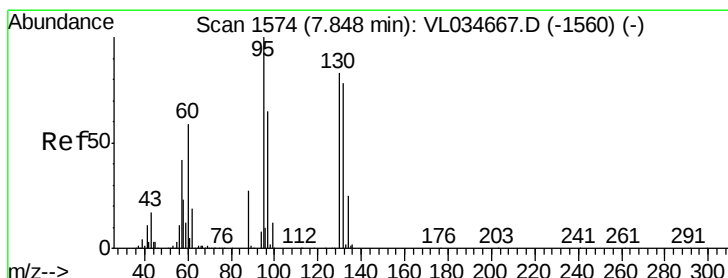
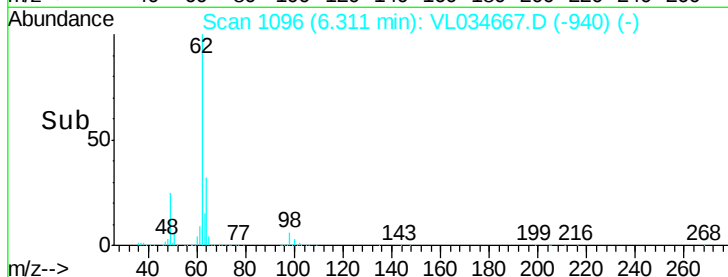
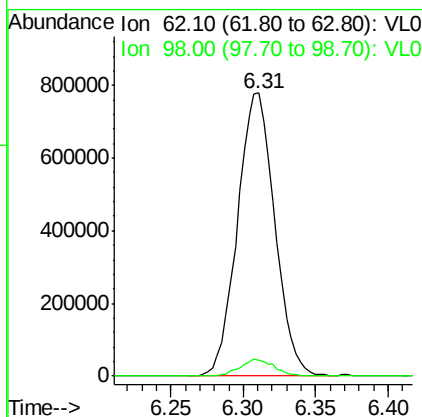
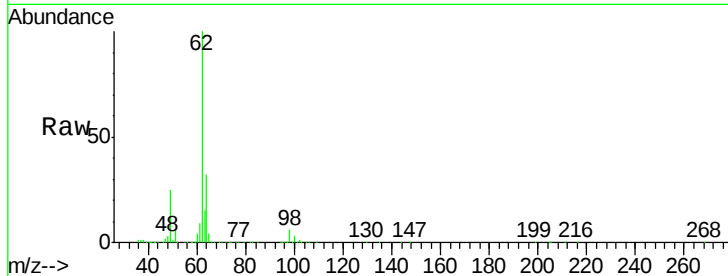
#37
 1,2-Dichloroethane
 Concen: 7.791 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 1393666
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.5 6.7

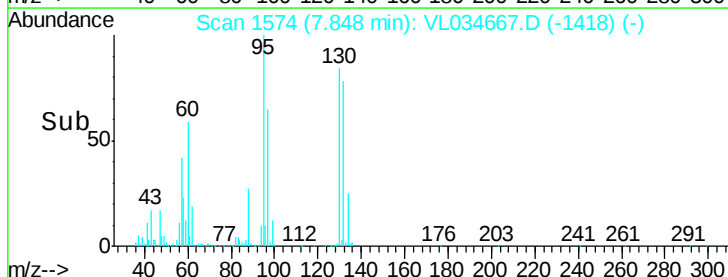
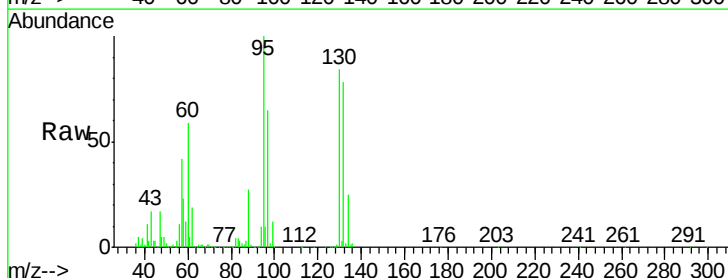
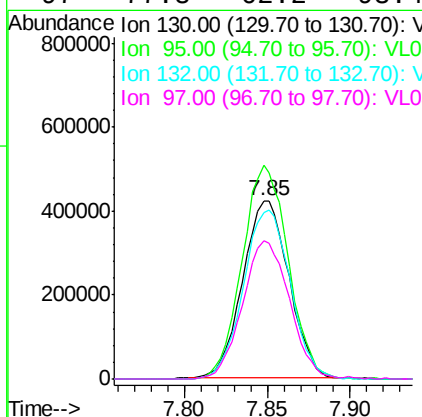
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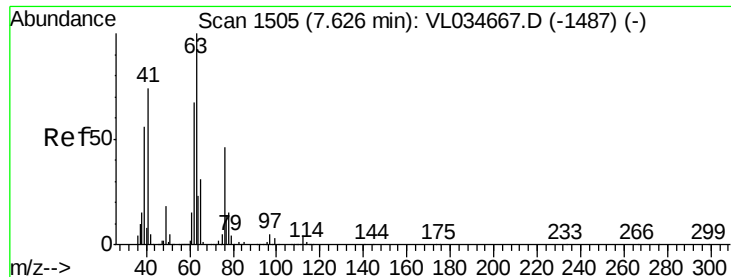
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#38
 Trichloroethene
 Concen: 9.096 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Tgt Ion: 130 Resp: 822009
 Ion Ratio Lower Upper
 130 100
 95 120.1 96.1 144.1
 132 93.3 74.6 112.0
 97 77.8 62.2 93.4





#39

1,2-Dichloropropane

Concen: 9.967 ppbv

RT: 7.63 min Scan# 1505

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

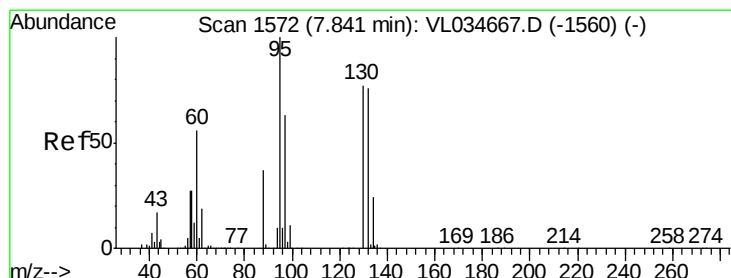
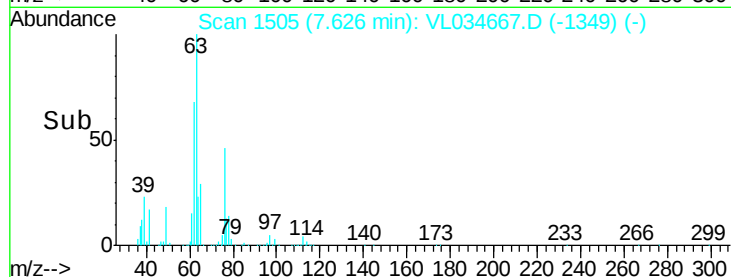
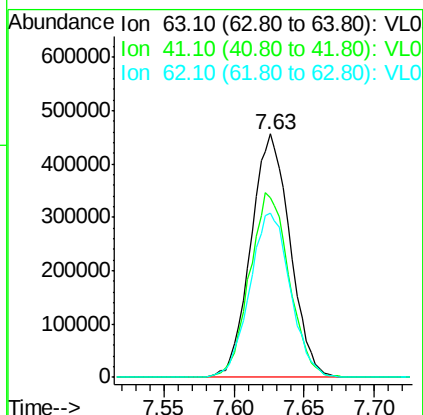
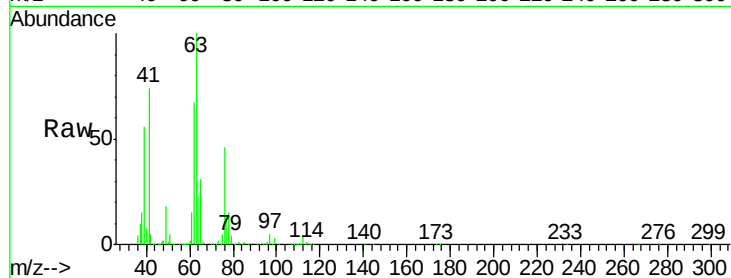
ClientSampleId :

VSTDICCC010

Tot Ion:	63	Resp:	885846
Ion Ratio	Lower	Upper	
63	100		
41	73.6	58.9	88.3
62	67.3	53.8	80.8

Manual Integrations
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#40

1,4-Dioxane

Concen: 10.223 ppbv

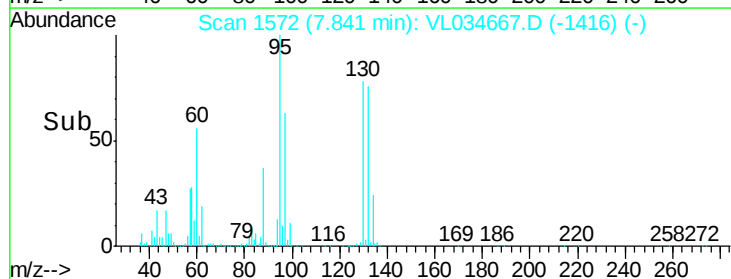
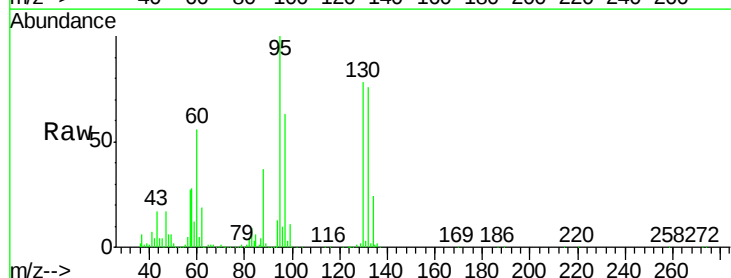
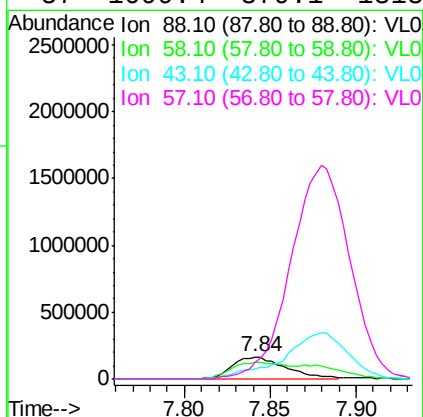
RT: 7.84 min Scan# 1572

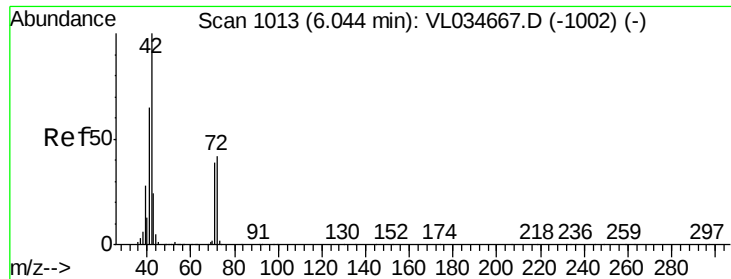
Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Tgt Ion:	88	Resp:	349275
Ion Ratio	Lower	Upper	
88	100		
58	135.5	108.6	163.0
43	259.5	208.1	312.1
57	1099.4	879.1	1318.7





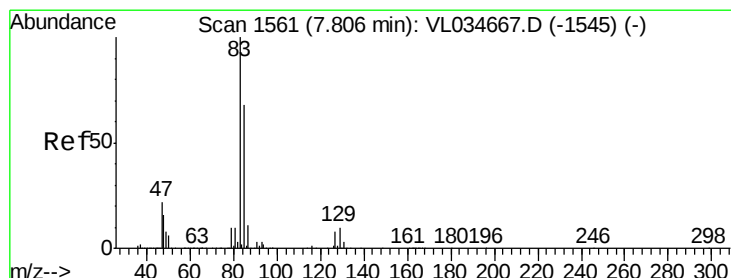
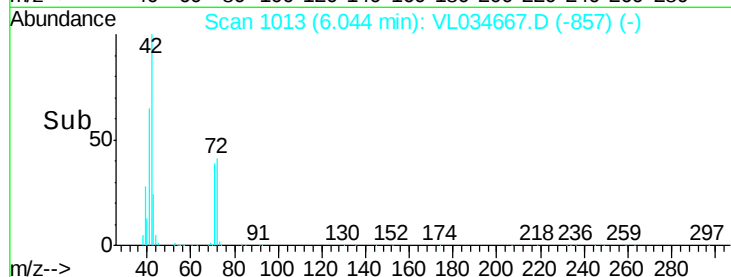
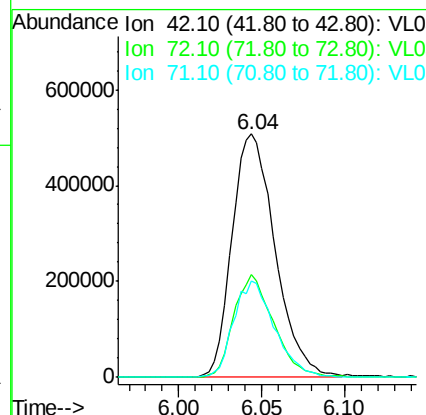
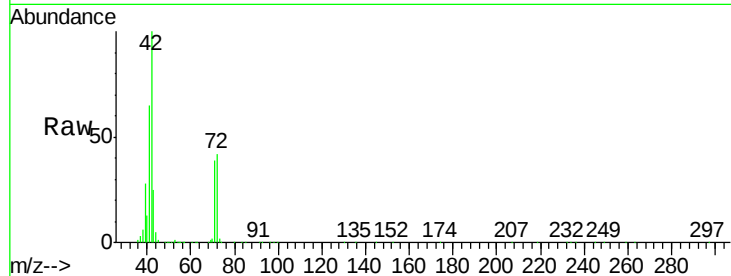
#41
Tetrahydrofuran
Concen: 10.040 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.4	31.5	47.3
71	37.9	30.3	45.5

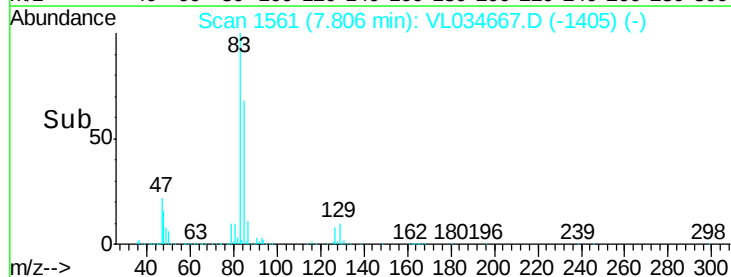
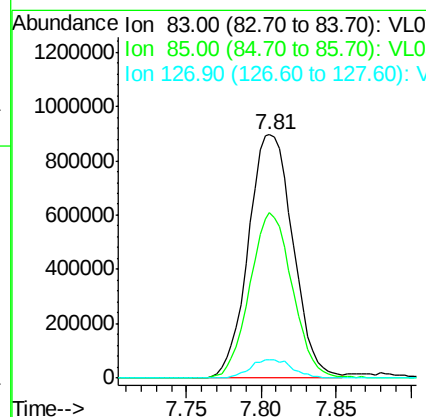
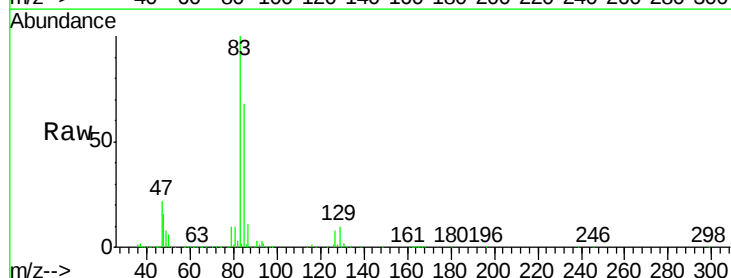
Manual Integrations
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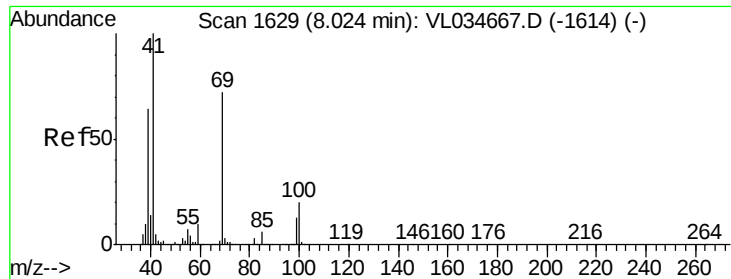
MMDadoda
2/26/2020 12:38:40 PM



#42
Bromodichloromethane
Concen: 8.430 ppbv
RT: 7.81 min Scan# 1561
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.8	54.2	81.4
127	7.8	6.2	9.4





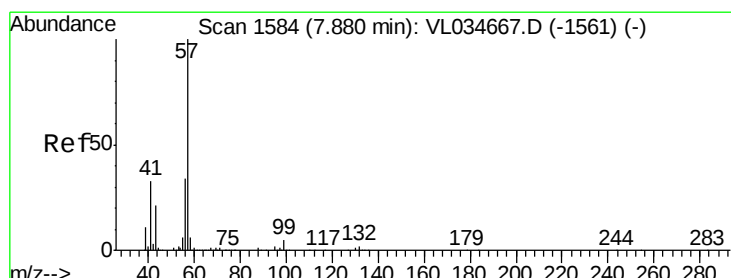
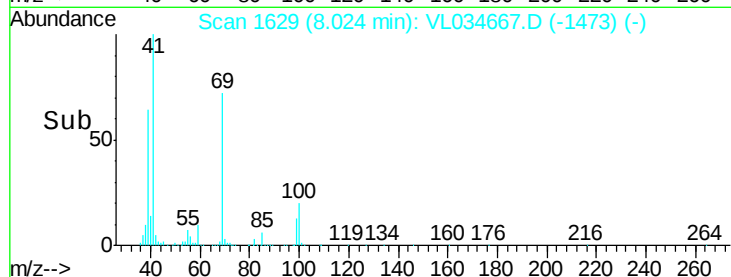
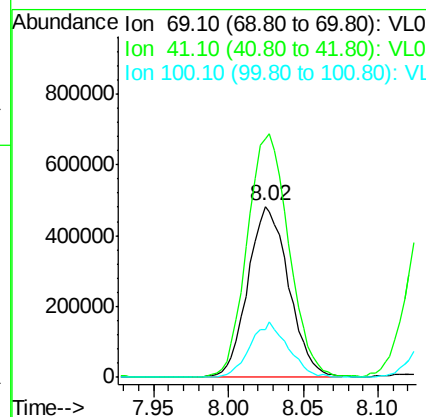
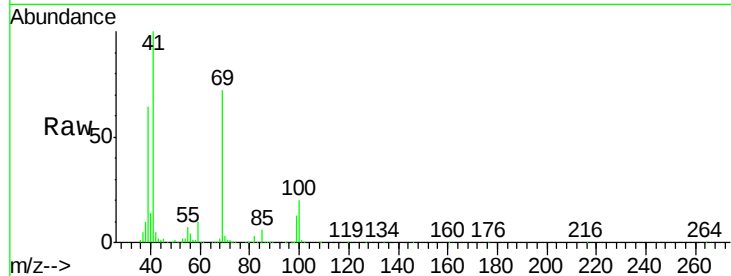
#43
Methvl Methacrilate
Concen: 10.623 ppbv
RT: 8.02 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	145.5	116.4	174.6	
100	30.4	24.3	36.5	

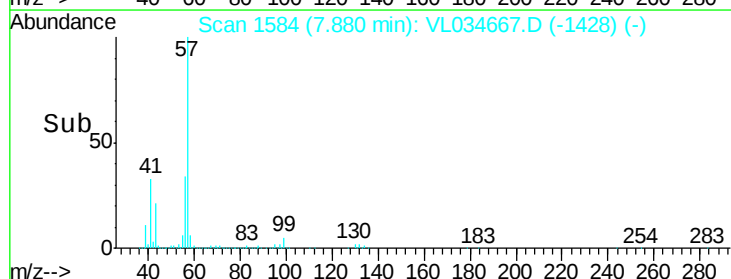
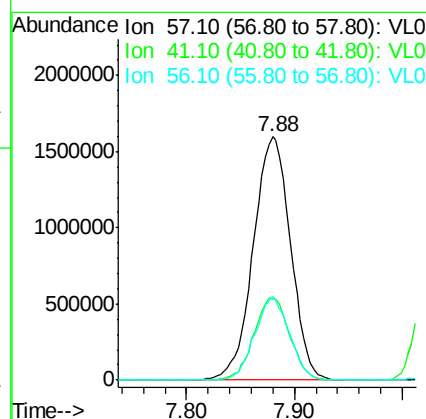
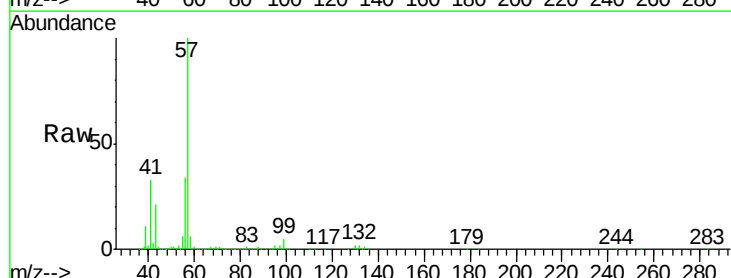
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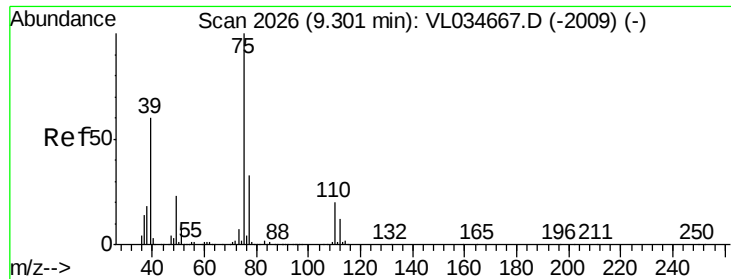
MMDadoda
2/26/2020 12:38:40 PM



#44
2,2,4-Trimethylpentane
Concen: 9.853 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.6	26.1	39.1	
56	31.7	25.4	38.2	





#45

t-1,3-Dichloropropene

Concen: 10.261 ppbv

RT: 9.30 min Scan# 2026

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 75 Resp: 1158557

Ion Ratio Lower Upper

75 100

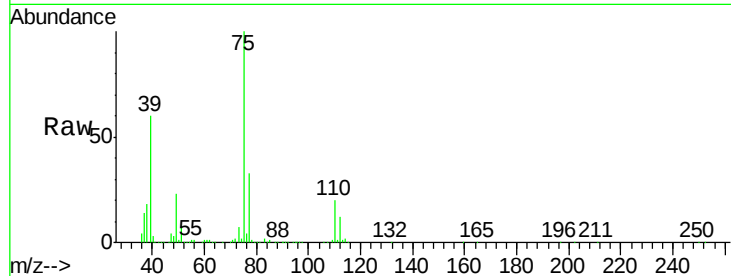
77 32.9 26.3 39.5

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.30

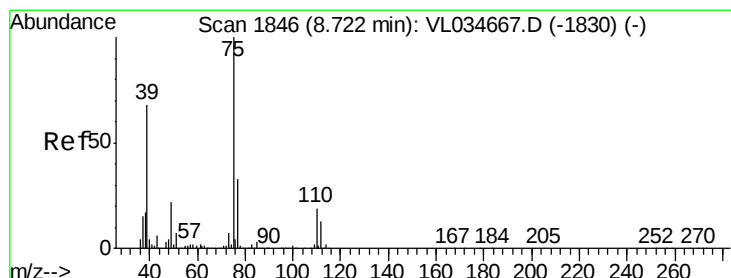
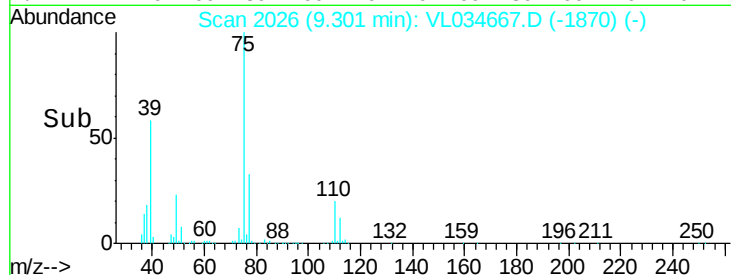
600000

400000

200000

0

Time--> 9.20 9.25 9.30 9.35 9.40



#46

cis-1,3-Dichloropropene

Concen: 10.347 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

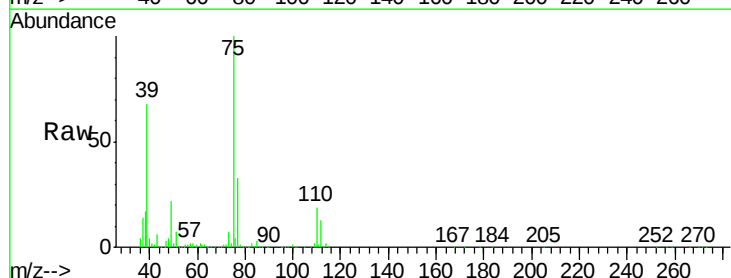
Tgt Ion: 75 Resp: 1327930

Ion Ratio Lower Upper

75 100

39 68.4 54.7 82.1

77 33.3 26.6 40.0



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

8.72

800000

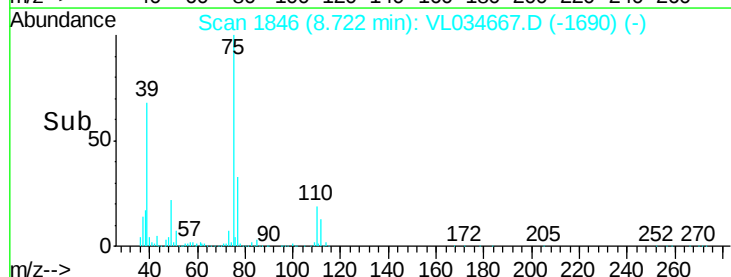
600000

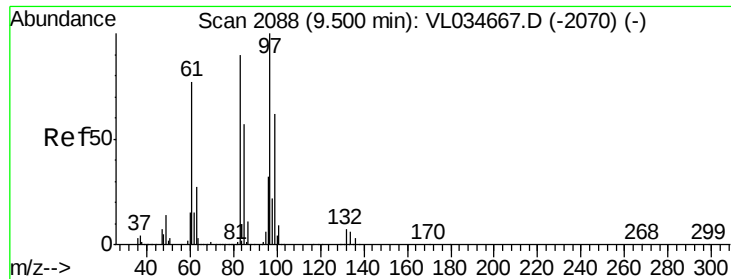
400000

200000

0

Time--> 8.65 8.70 8.75 8.80





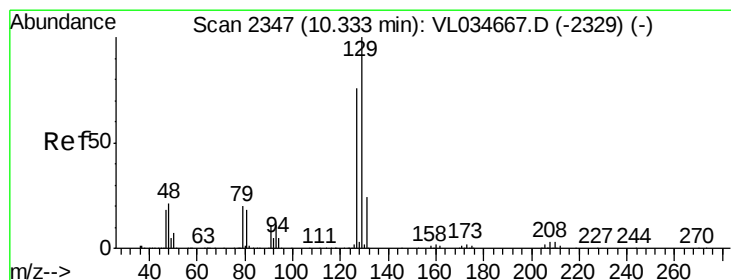
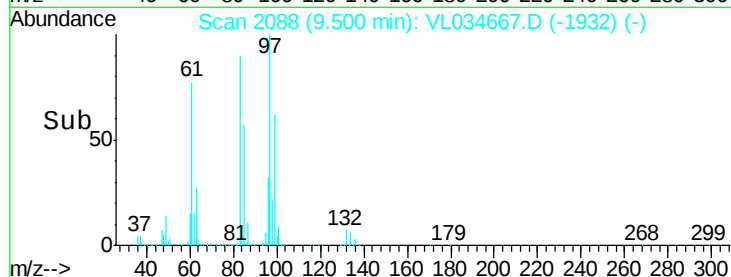
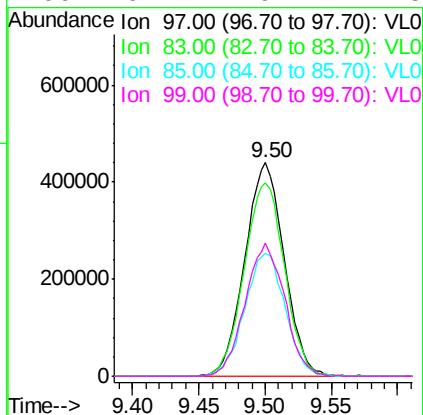
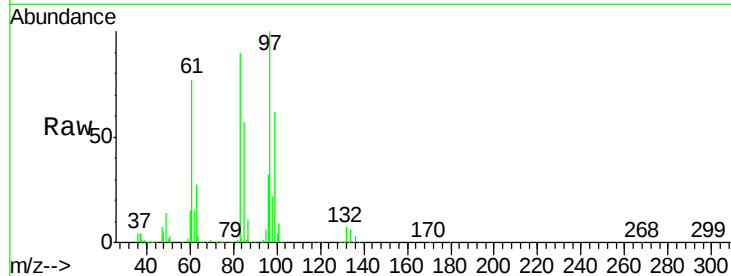
#47
 1,1,2-Trichloroethane
 Concen: 9.469 ppbv
 RT: 9.50 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.4	72.3	108.5	
85	57.3	45.8	68.8	
99	62.1	49.7	74.5	

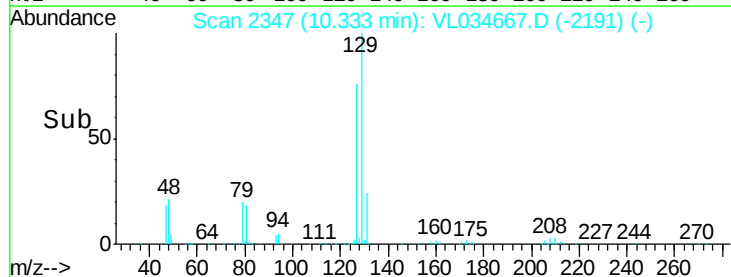
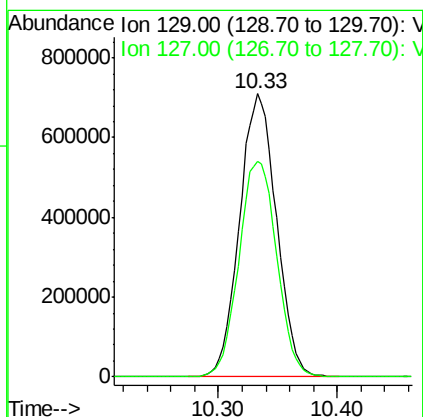
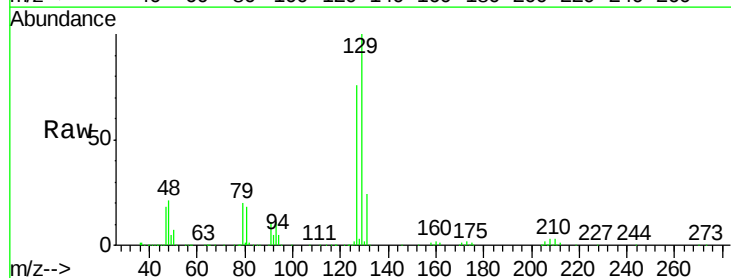
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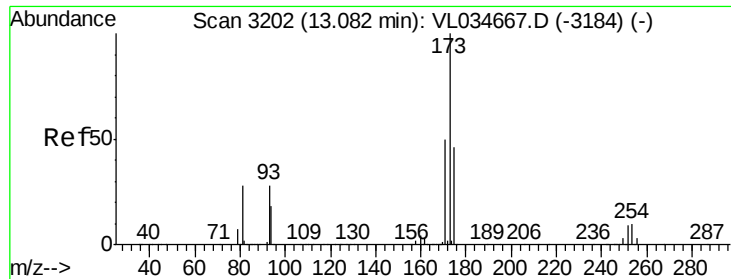
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#48
 Dibromochloromethane
 Concen: 8.638 ppbv
 RT: 10.33 min Scan# 2347
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.2	39.1	117.3	





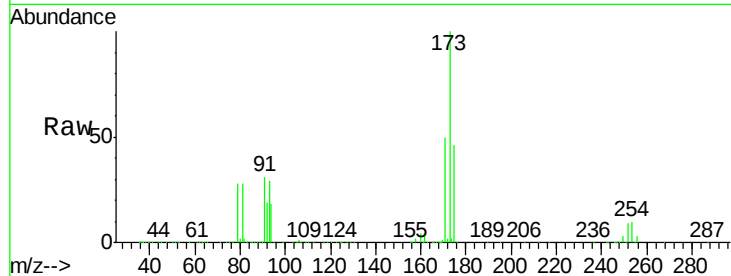
#49
Bromoform
Concen: 8.671 ppbv
RT: 13.08 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

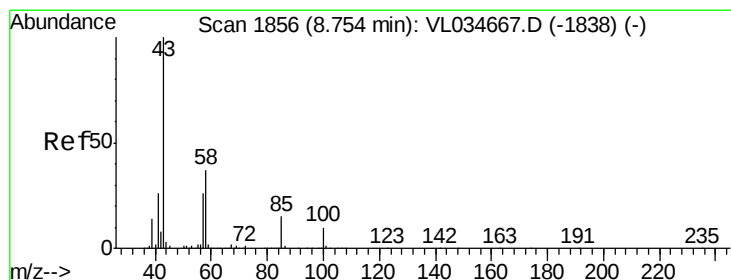
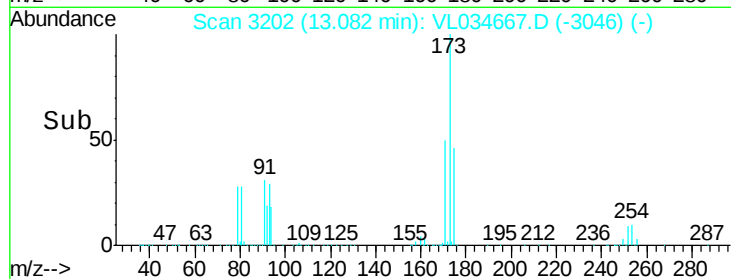
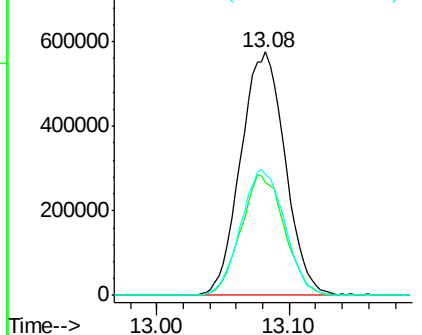
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	39.0	58.4
171	51.2	41.0	61.6

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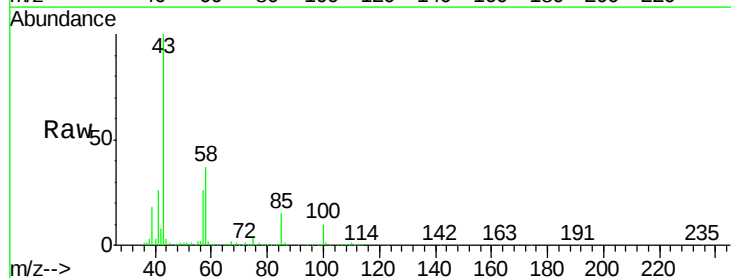


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

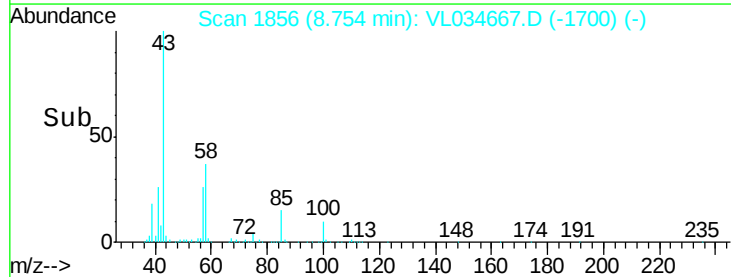
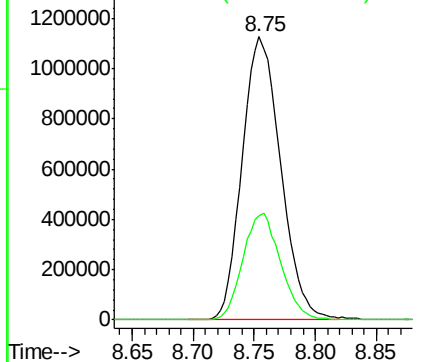


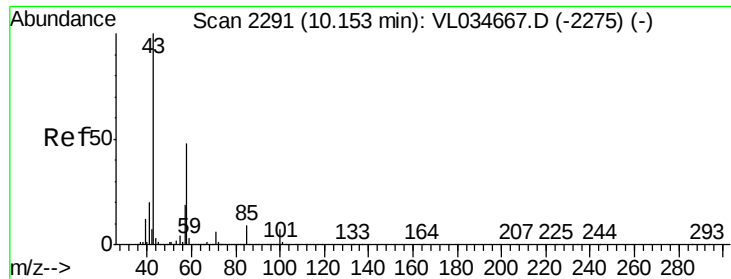
#50
4-Methyl-2-Pentanone
Concen: 9.843 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.9	29.5	44.3



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





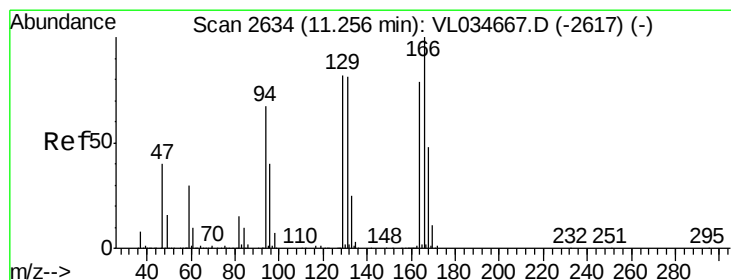
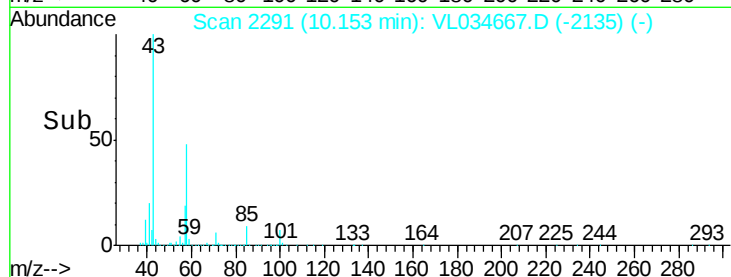
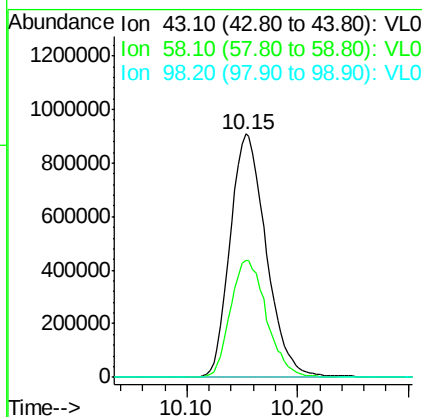
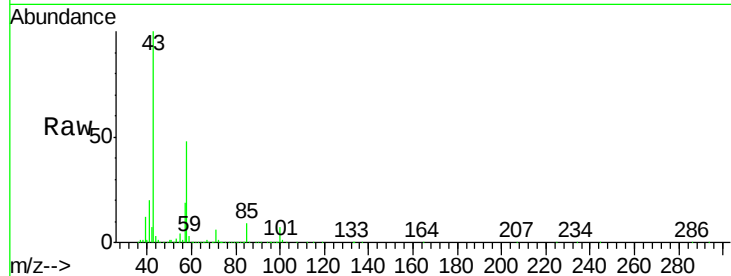
#51
2-Hexanone
Concen: 10.468 ppbv
RT: 10.15 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 2057043
Ion Ratio Lower Upper
43 100
58 48.5 38.8 58.2
98 0.4 0.3 0.5

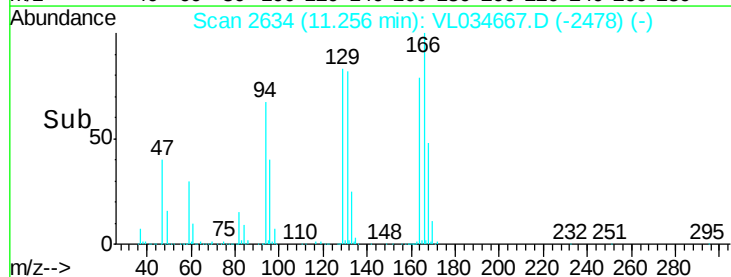
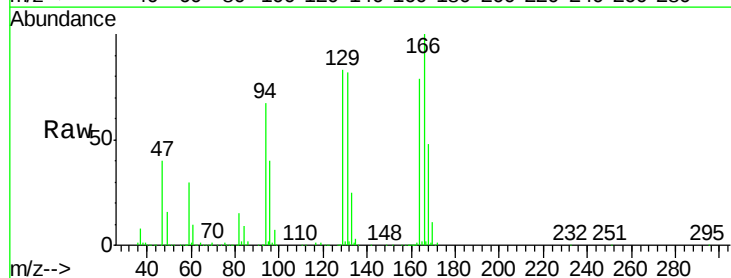
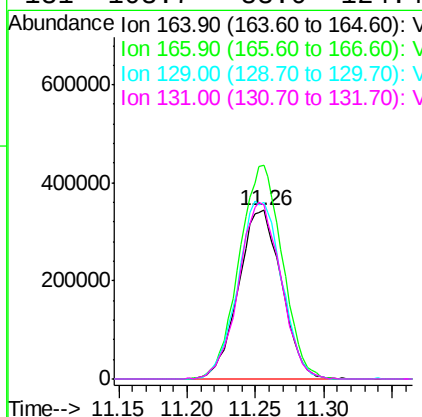
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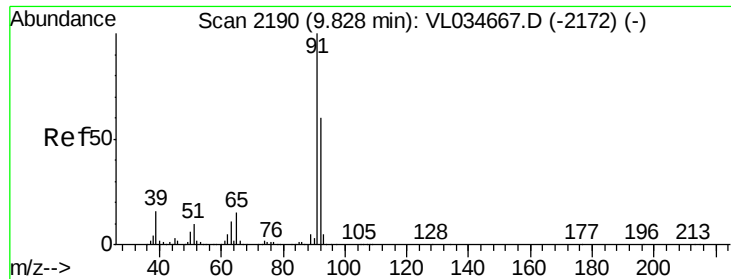
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#52
Tetrachloroethene
Concen: 8.762 ppbv
RT: 11.26 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion: 164 Resp: 754609
Ion Ratio Lower Upper
164 100
166 126.8 101.4 152.2
129 104.4 83.5 125.3
131 103.7 83.0 124.4





#53

Toluene

Concen: 10.669 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2512717

Ion Ratio Lower Upper

91 100

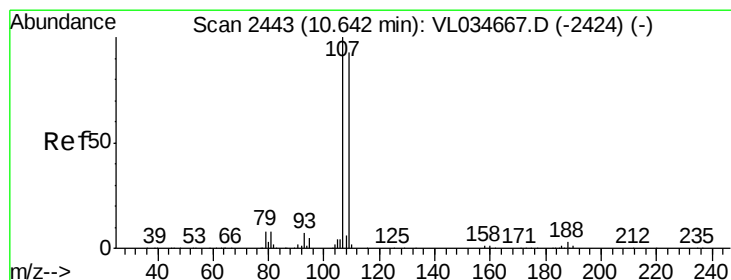
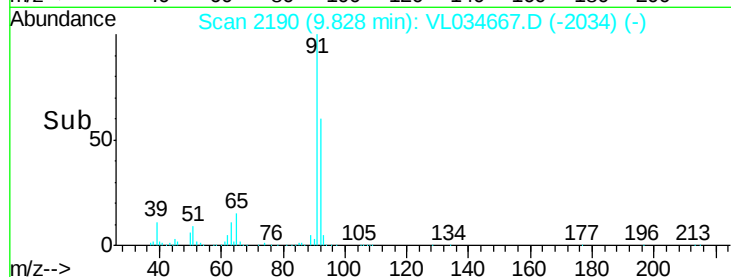
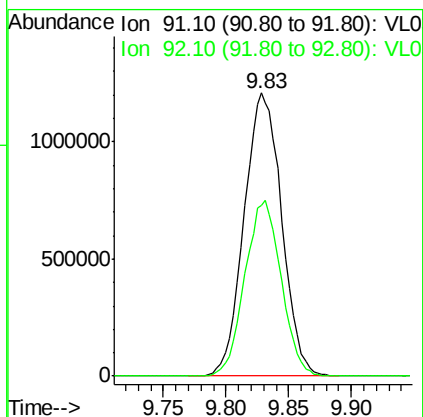
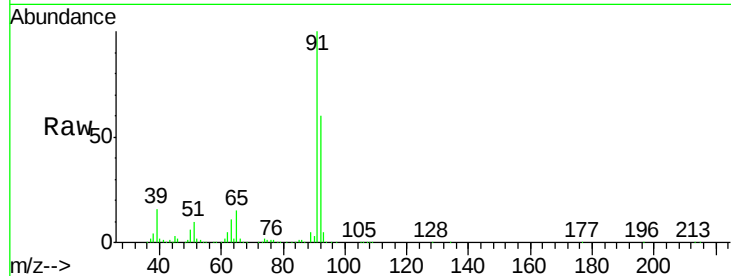
92 60.2 48.2 72.2

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#54

1,2-Dibromoethane

Concen: 9.146 ppbv

RT: 10.64 min Scan# 2443

Delta R.T. 0.00 min

Lab File: VL034667.D

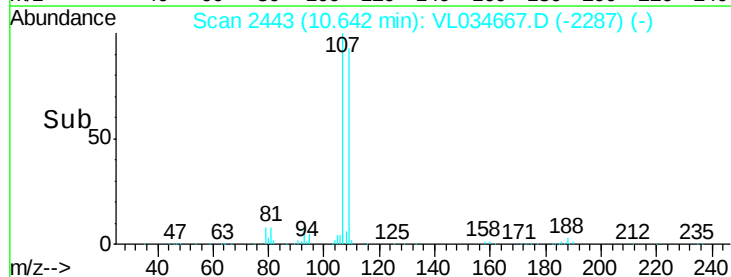
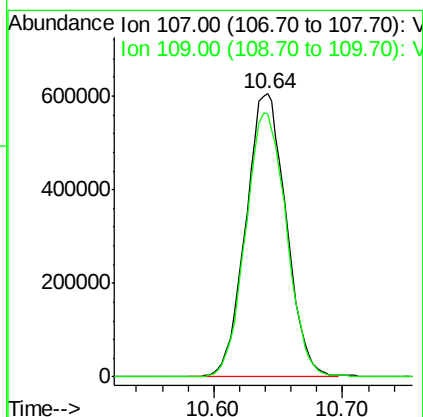
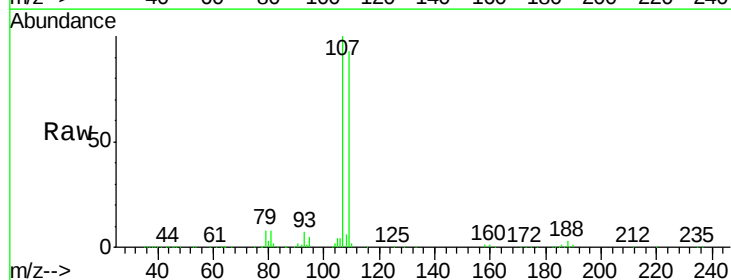
Acq: 25 Feb 2020 11:17

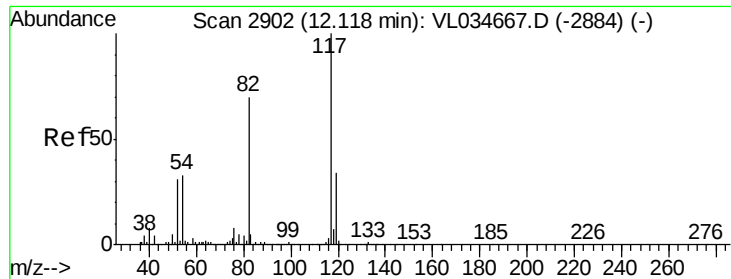
Tgt Ion: 107 Resp: 1319302

Ion Ratio Lower Upper

107 100

109 92.8 74.2 111.4





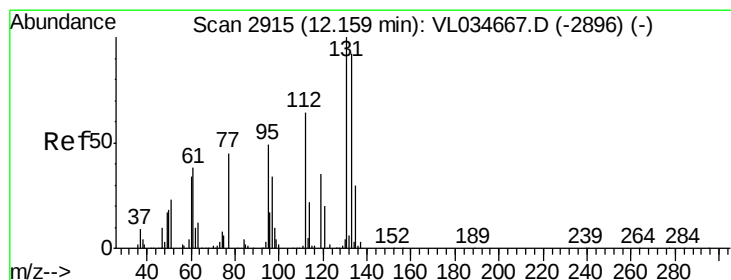
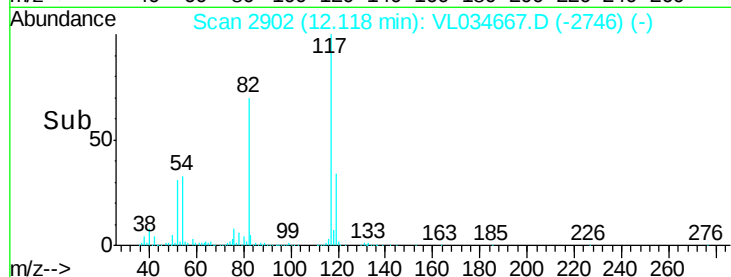
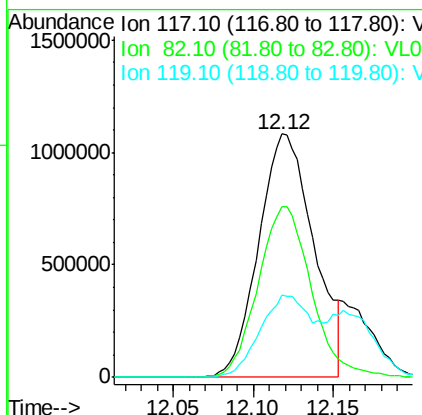
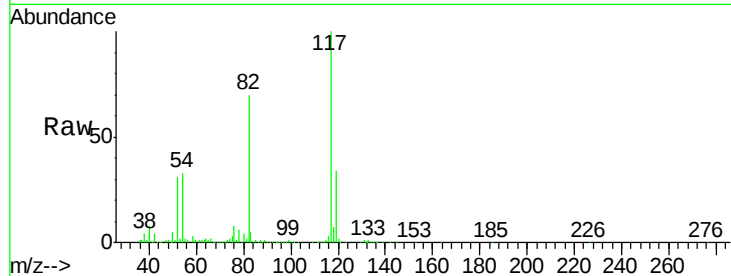
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.8	54.2	81.4
119	34.5	44.2	66.2#

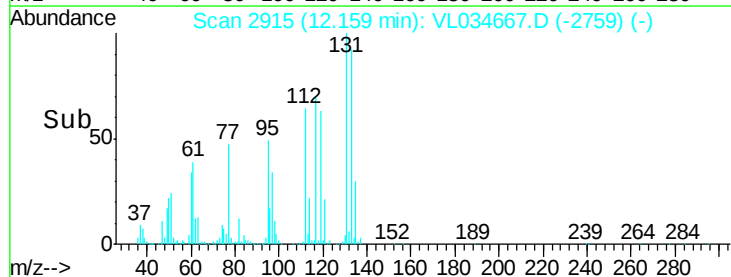
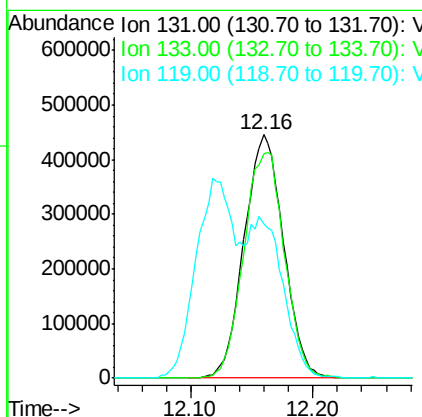
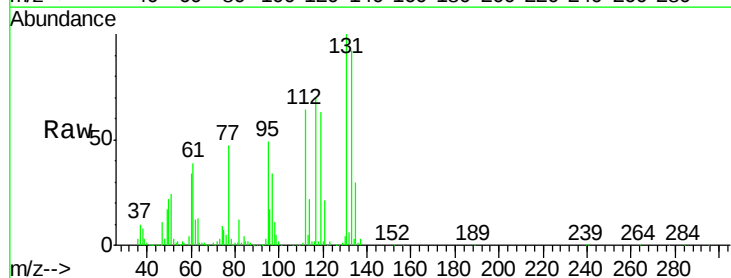
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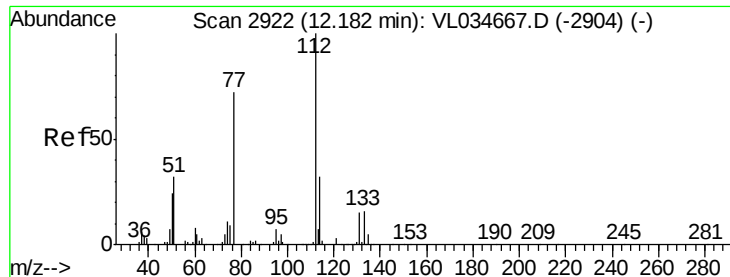
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#56
1,1,1,2-Tetrachloroethane
Concen: 7.789 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.1	77.0	115.4
119	143.7	114.8	172.2





#57

Chlorobenzene

Concen: 8.774 ppbv

RT: 12.18 min Scan# 2922

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

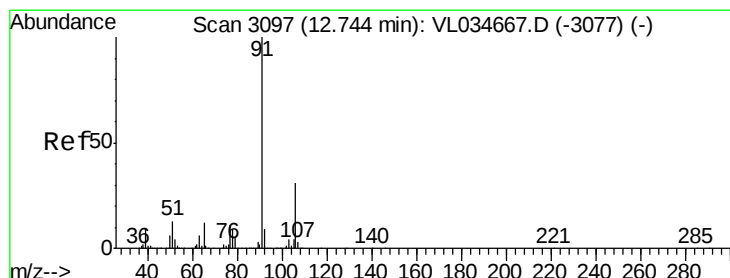
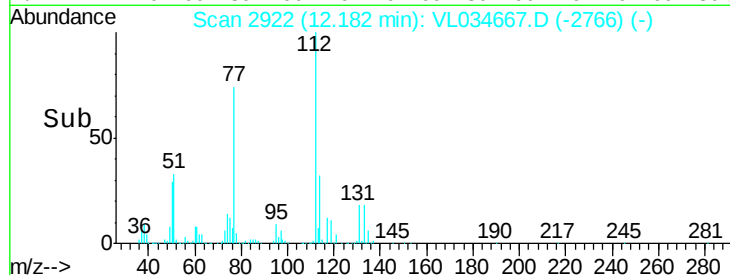
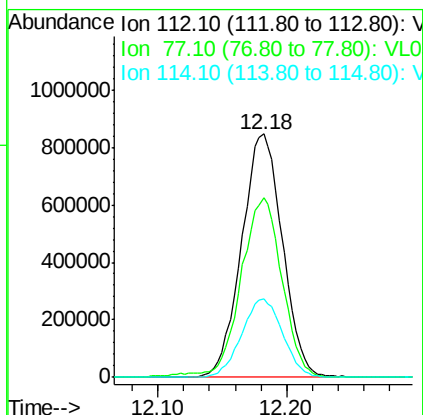
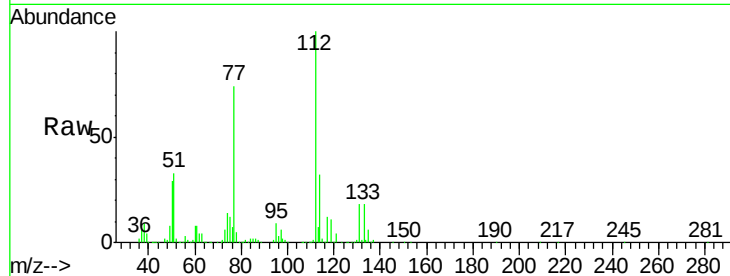
ClientSampled :

VSTDICCC010

Tot Ion:	112	Resp:	1864742
Ion	Ratio	Lower	Upper
112	100		
77	73.6	58.9	88.3
114	32.3	29.1	35.5

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#58

Ethyl Benzene

Concen: 9.694 ppbv

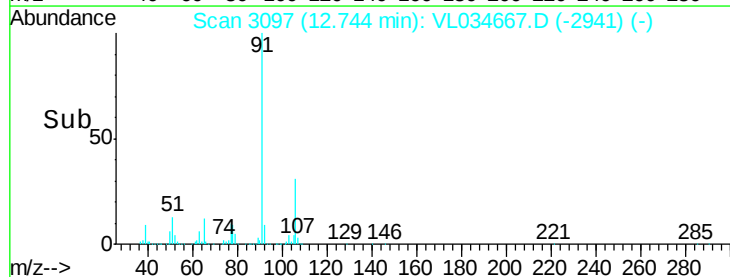
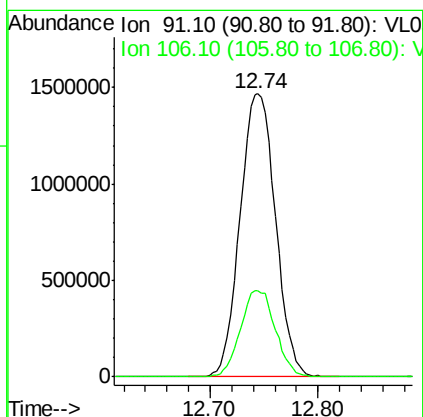
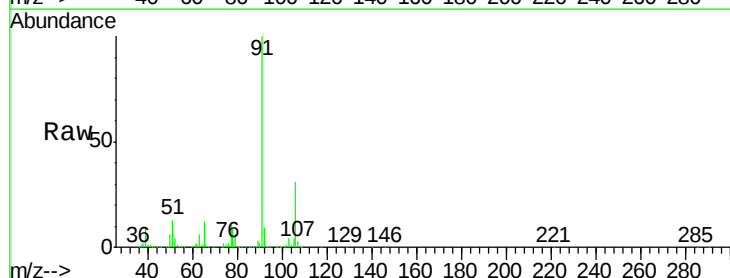
RT: 12.74 min Scan# 3097

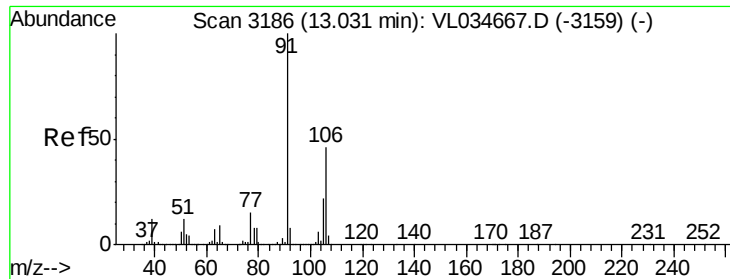
Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Tgt Ion:	91	Resp:	3350154
Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.6	36.8





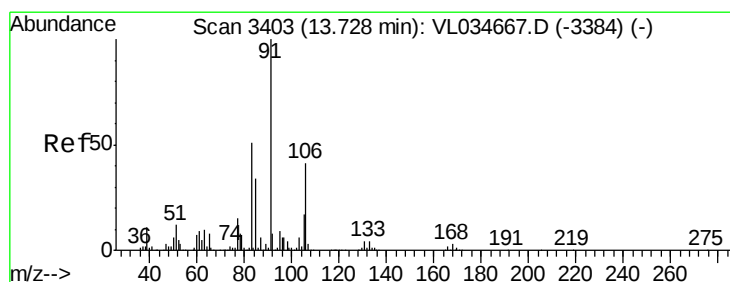
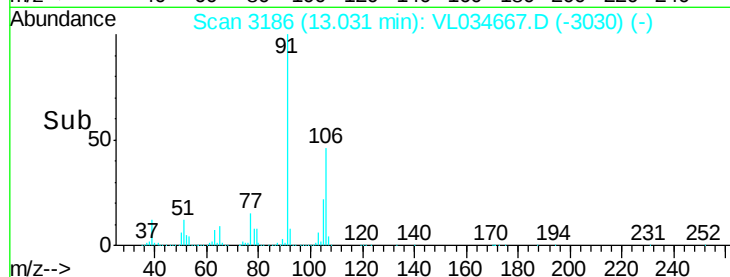
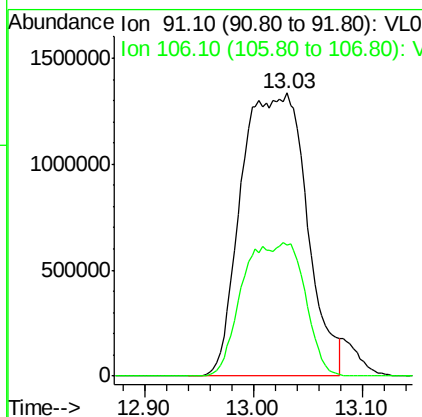
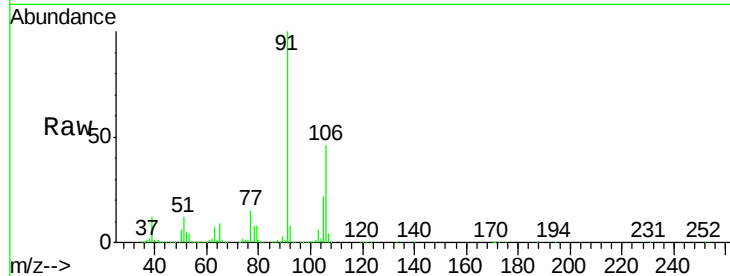
#59
m/p-Xylene
Concen: 18.184 ppbv m
RT: 13.03 min Scan# 3186
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 5555444
Ion Ratio Lower Upper
91 100
106 44.9 35.9 53.9

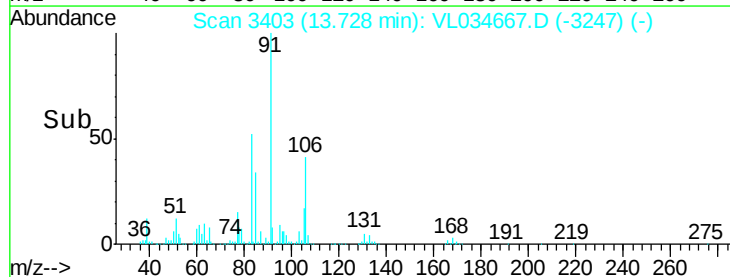
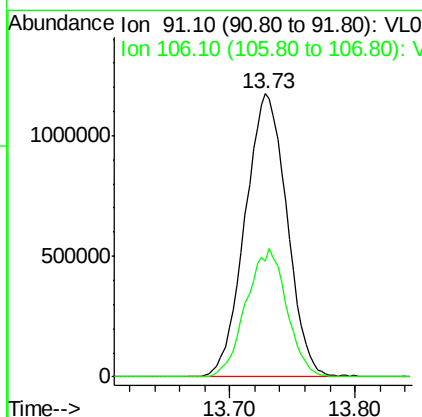
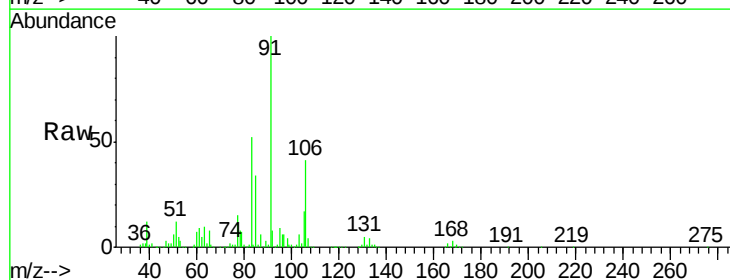
Manual Integrations
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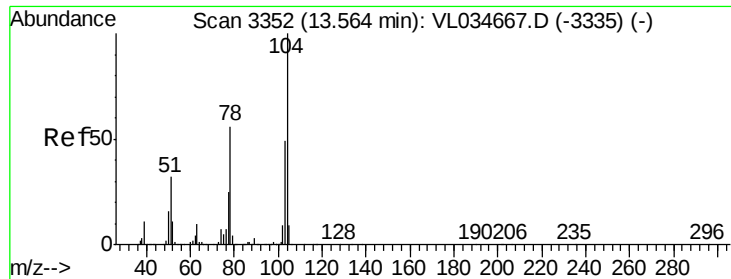
MMDadoda
2/26/2020 12:38:40 PM



#60
o-Xylene
Concen: 8.874 ppbv
RT: 13.73 min Scan# 3403
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion: 91 Resp: 2722699
Ion Ratio Lower Upper
91 100
106 44.1 22.1 66.1





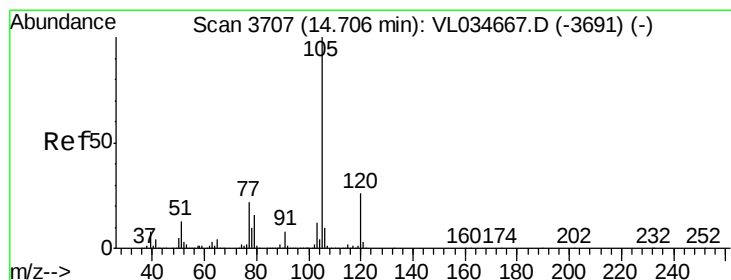
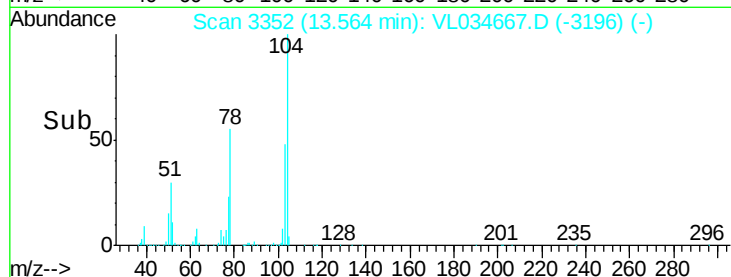
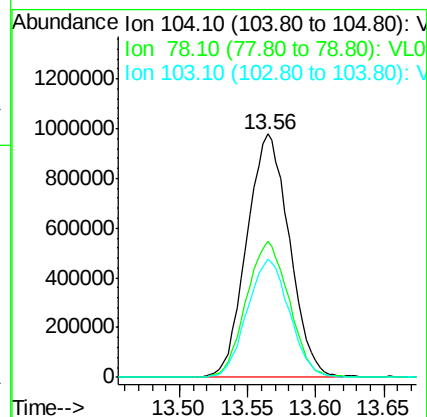
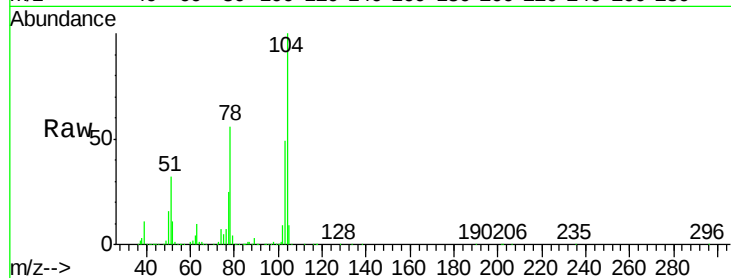
#61
Stvrene
Concen: 10.372 ppbv
RT: 13.56 min Scan# 3352
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.0	44.9	67.3
103	48.1	38.5	57.7

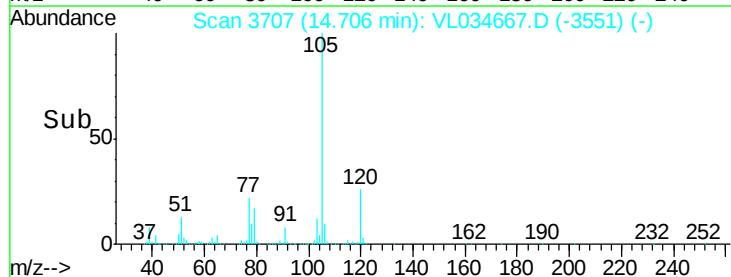
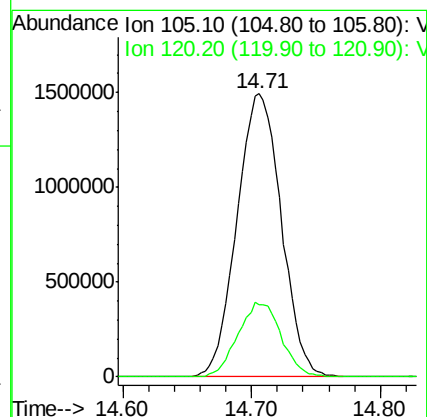
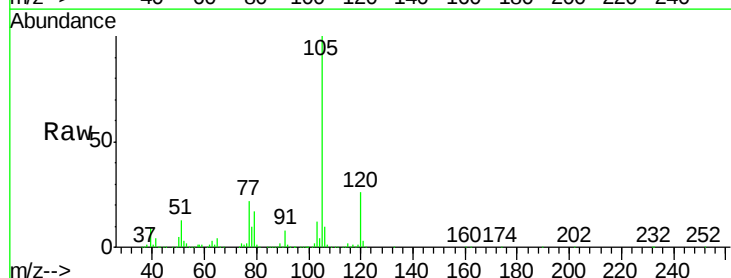
Manual Integrations
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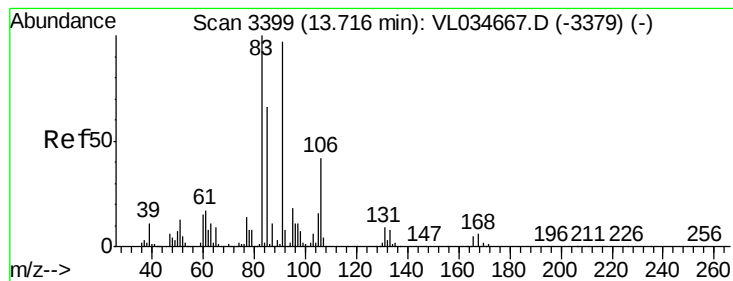
MMDadoda
2/26/2020 12:38:40 PM



#62
Isopropylbenzene
Concen: 8.938 ppbv
RT: 14.71 min Scan# 3707
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	20.7	31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 8.201 ppbv

RT: 13.72 min Scan# 3399

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 83 Resp: 1946172

Ion Ratio Lower Upper

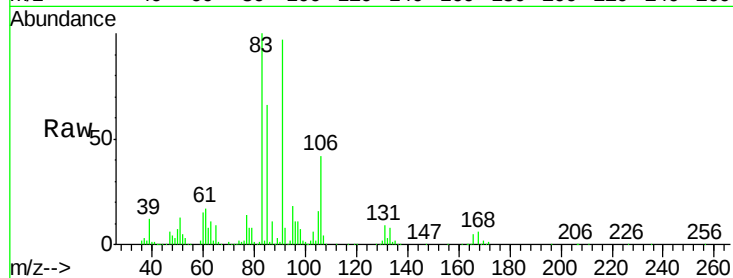
83 100

131 8.9 4.5 13.4

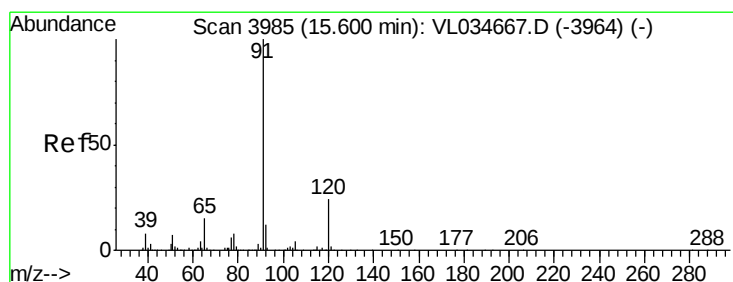
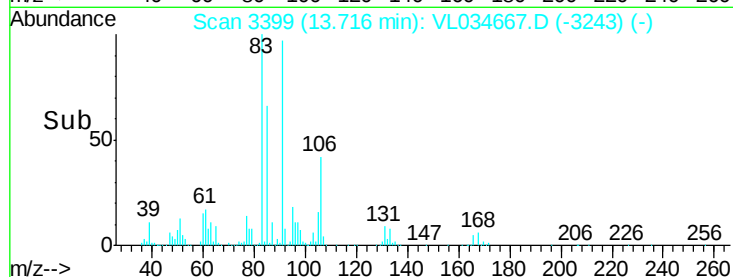
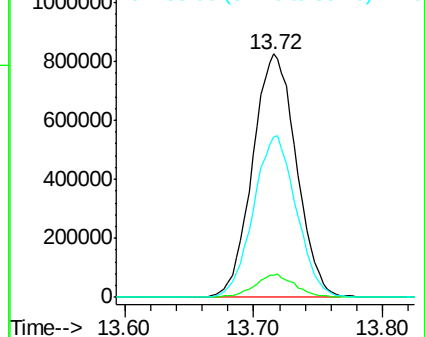
85 65.3 32.6 98.0

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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: 9.136 ppbv

RT: 15.60 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VL034667.D

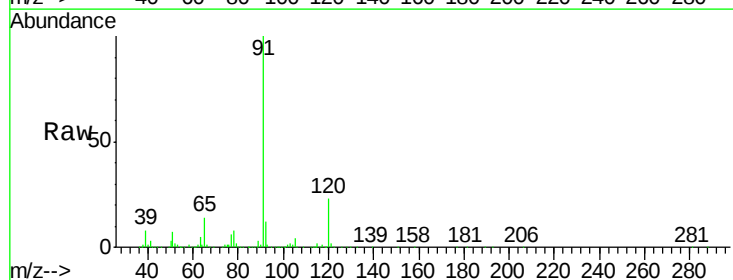
Acq: 25 Feb 2020 11:17

Tgt Ion:120 Resp: 934578

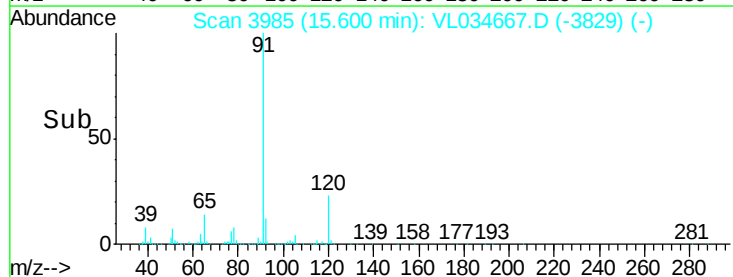
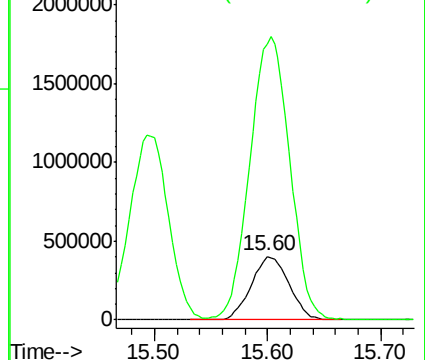
Ion Ratio Lower Upper

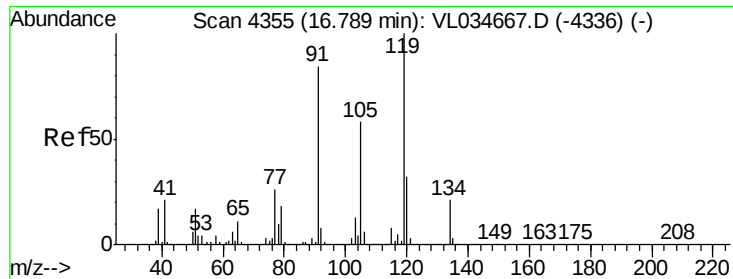
120 100

91 469.4 375.9 563.9



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





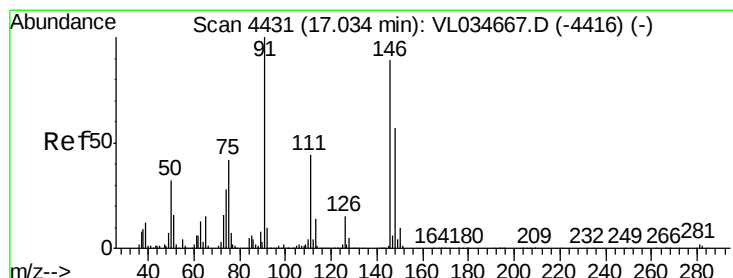
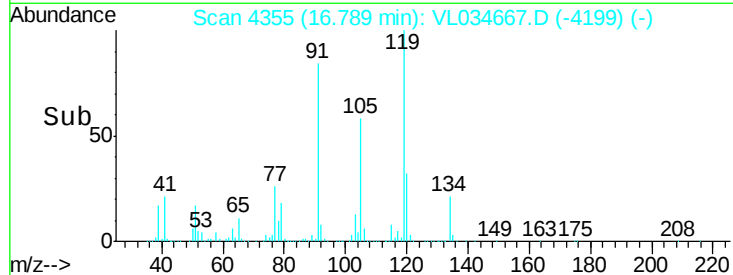
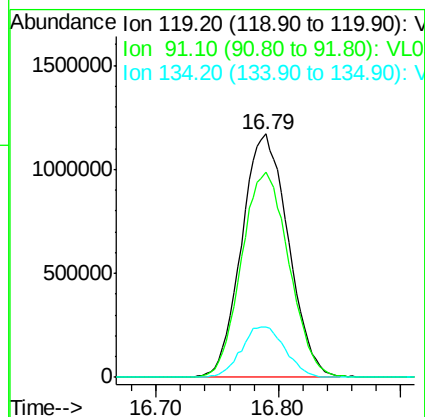
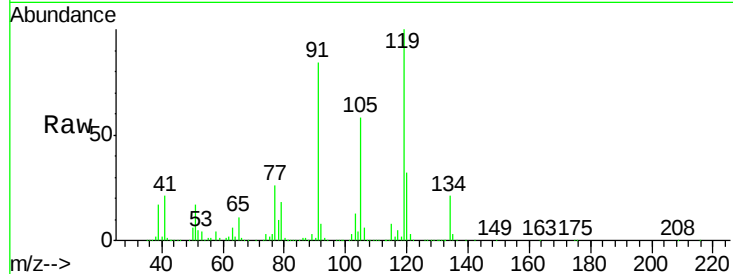
#65
tert-Butylbenzene
Concen: 8.599 ppbv
RT: 16.79 min Scan# 4355
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:119 Resp: 3097394
Ion Ratio Lower Upper
119 100
91 86.2 68.9 103.3
134 19.5 15.6 23.4

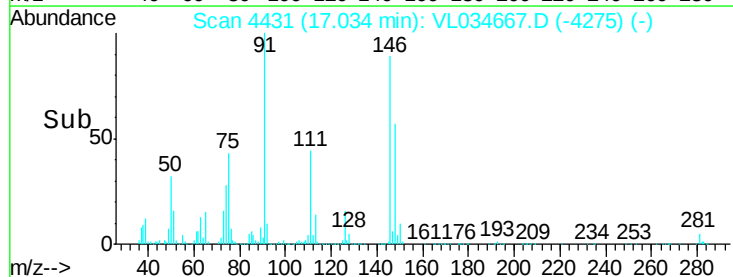
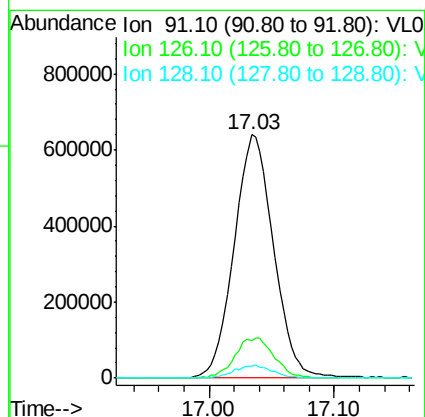
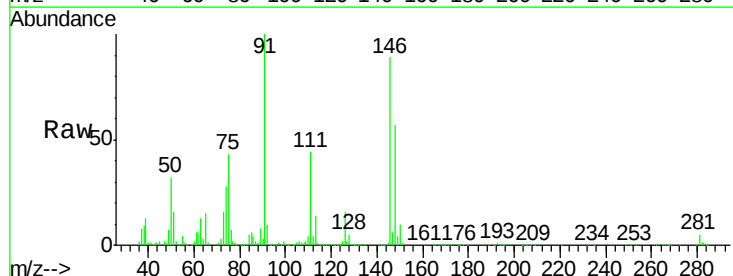
Manual Integrations
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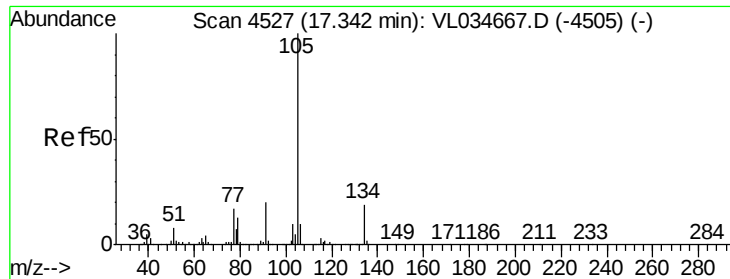
MMDadoda
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#66
Benzyl Chloride
Concen: 9.203 ppbv
RT: 17.03 min Scan# 4431
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion: 91 Resp: 1389981
Ion Ratio Lower Upper
91 100
126 16.7 13.3 19.9
128 5.2 4.2 6.2





#67

sec-Butylbenzene

Concen: 8.762 ppbv

RT: 17.34 min Scan# 4527

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 4337554

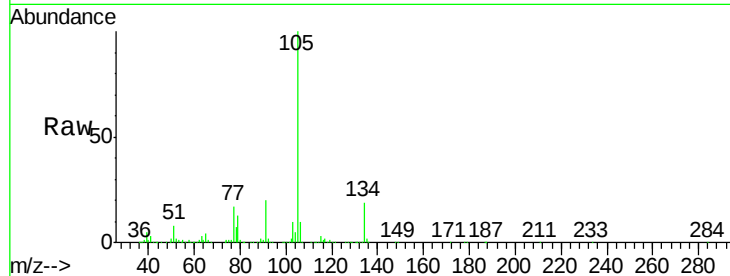
Ion Ratio Lower Upper

105 100

134 18.2 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

2000000

1500000

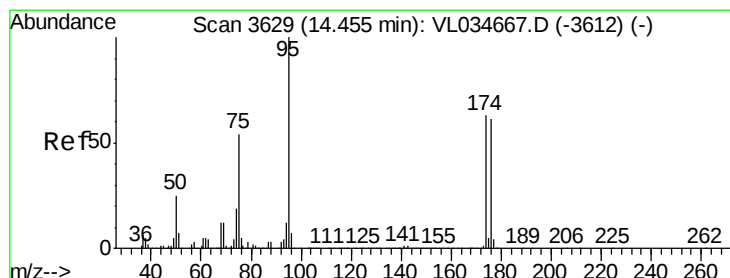
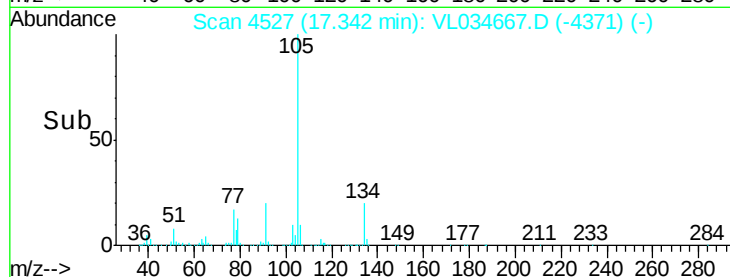
1000000

500000

0

17.30 17.34 17.40

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.553 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

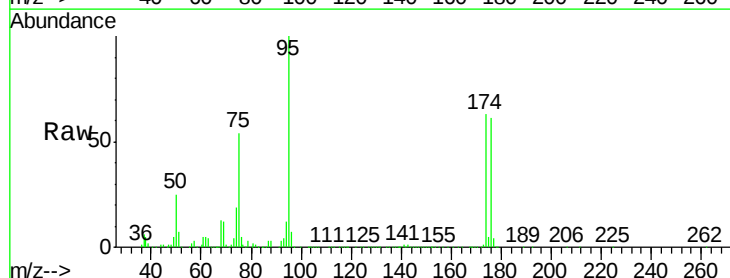
Tgt Ion: 95 Resp: 2085314

Ion Ratio Lower Upper

95 100

174 64.0 51.2 76.8

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

1200000

1000000

800000

600000

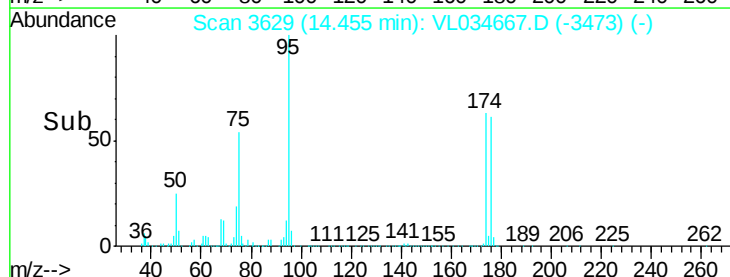
400000

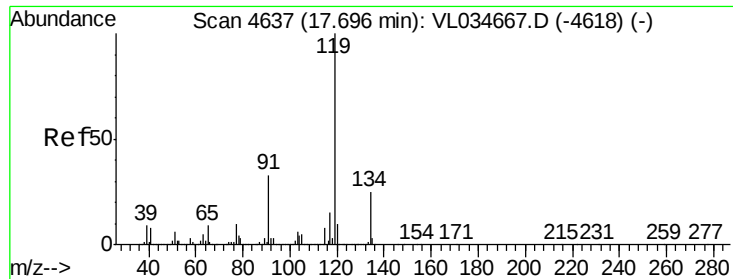
200000

0

14.35 14.40 14.45 14.50

Time-->





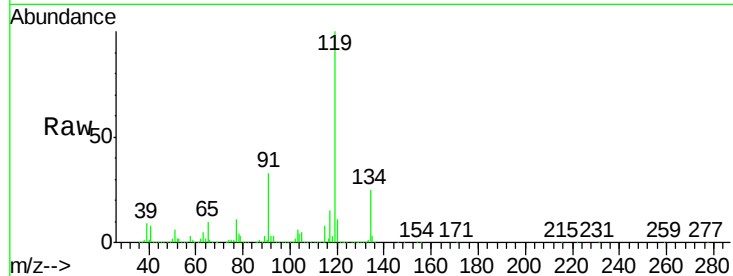
#69
 p-Isopropyltoluene
 Concen: 8.788 ppbv
 RT: 17.70 min Scan# 4637
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

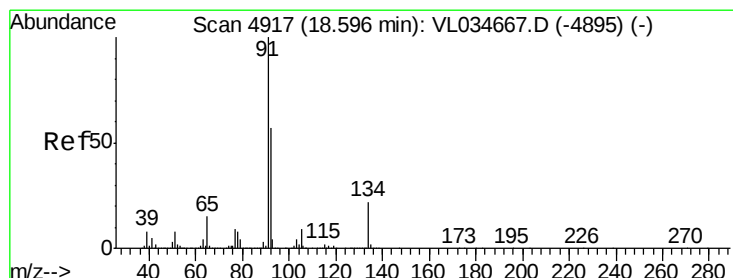
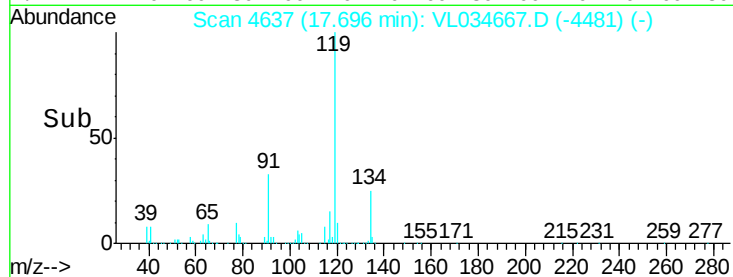
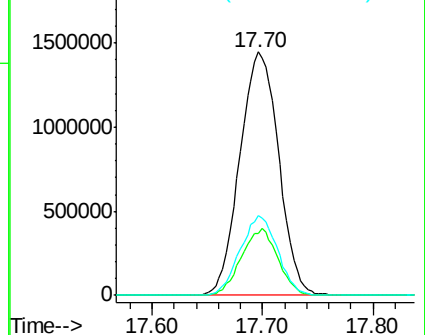
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	31.0
91	31.6	25.3	37.9

Manual Integrations
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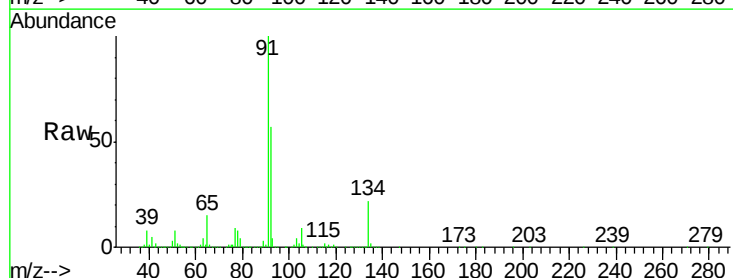


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

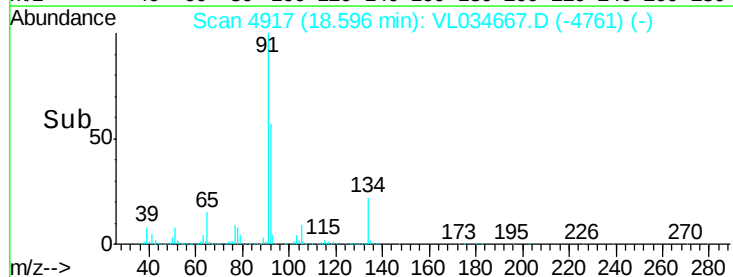
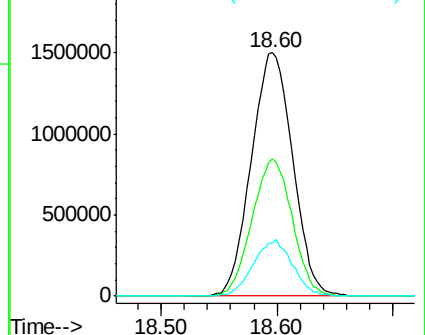


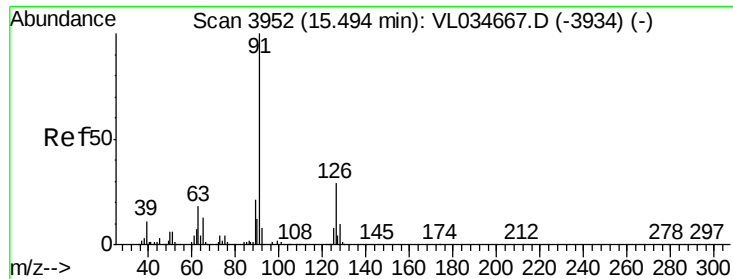
#70
 n-Butylbenzene
 Concen: 8.719 ppbv
 RT: 18.60 min Scan# 4917
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.0	44.0	66.0
134	22.0	17.6	26.4



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: 9.242 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2789319

Ion Ratio Lower Upper

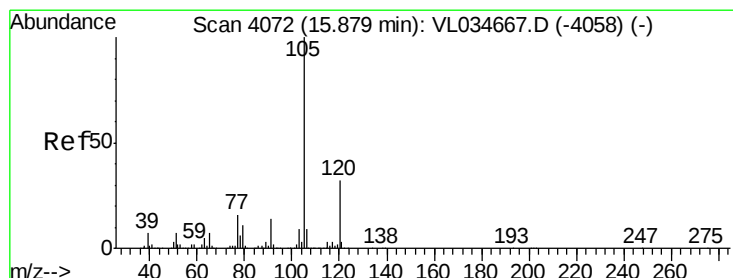
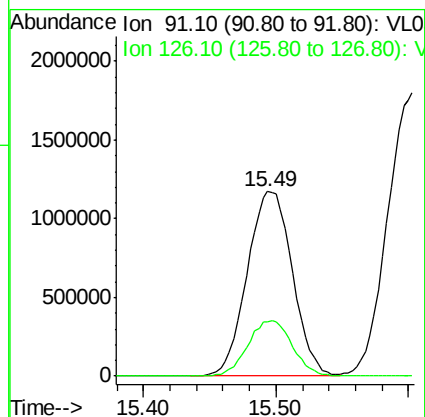
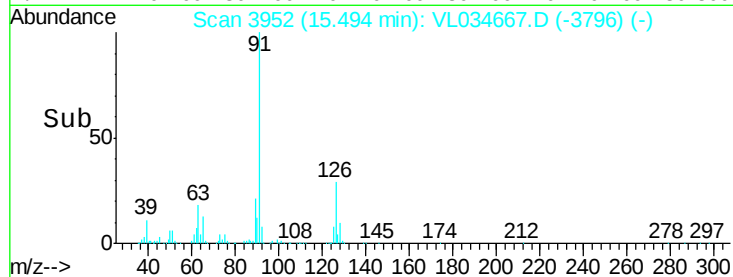
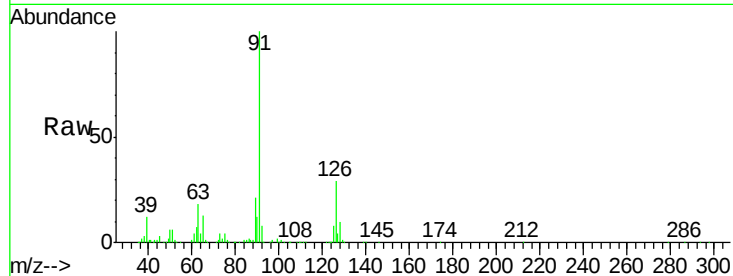
91 100

126 29.4 11.8 47.0

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#72

4-Ethyltoluene

Concen: 9.259 ppbv

RT: 15.88 min Scan# 4072

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Tgt Ion: 105 Resp: 3120431

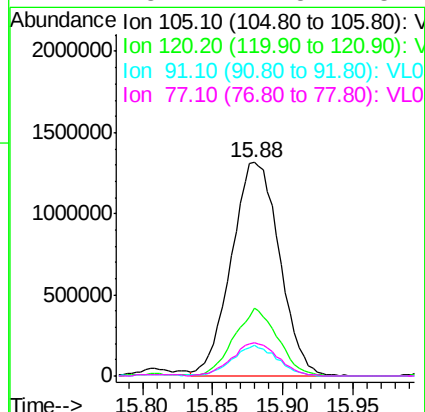
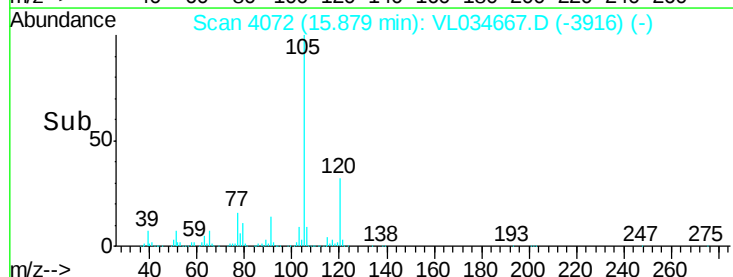
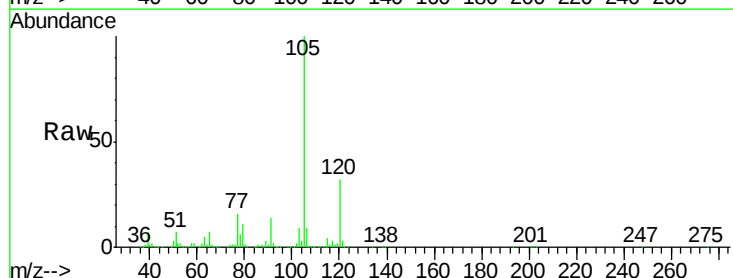
Ion Ratio Lower Upper

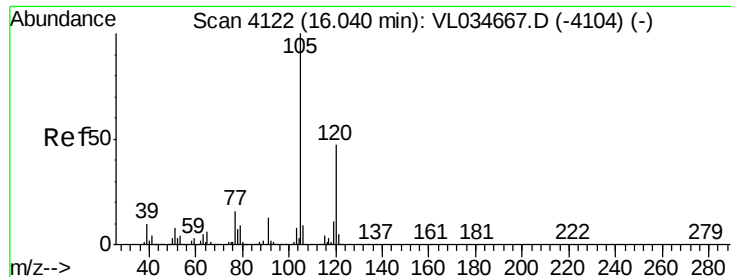
105 100

120 29.2 23.2 34.8

91 13.3 10.9 16.3

77 15.1 12.5 18.7





#73

1,3,5-Trimethylbenzene

Concen: 9.012 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 2967772

Ion Ratio Lower Upper

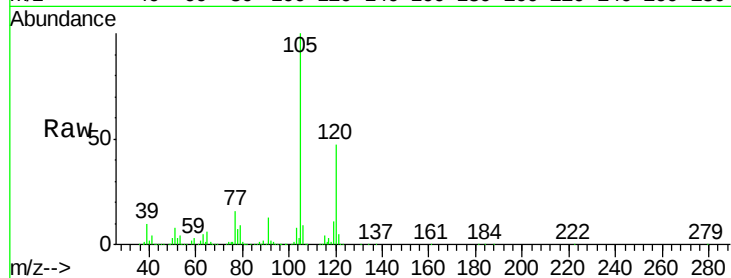
105 100

120 46.5 37.2 55.8

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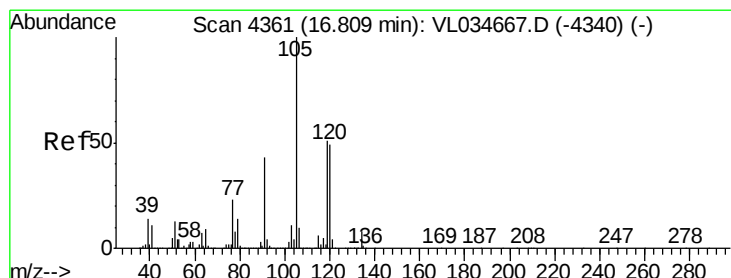
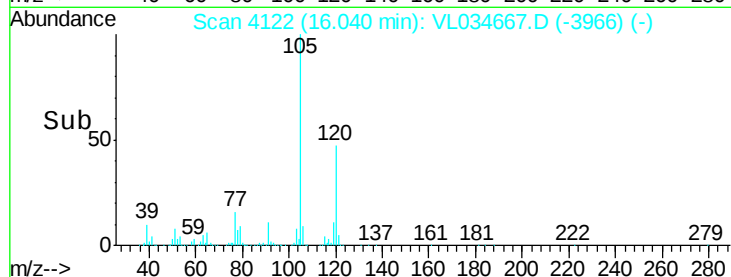
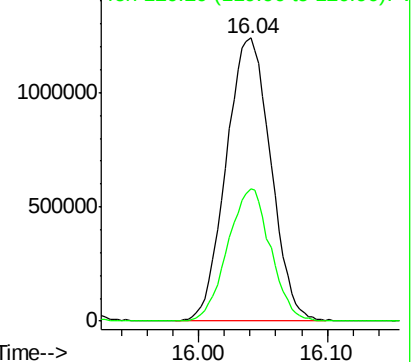
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.204 ppbv

RT: 16.81 min Scan# 4361

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Tgt Ion:105 Resp: 2991039

Ion Ratio Lower Upper

105 100

120 49.2 39.4 59.0

91 43.9 35.1 52.7

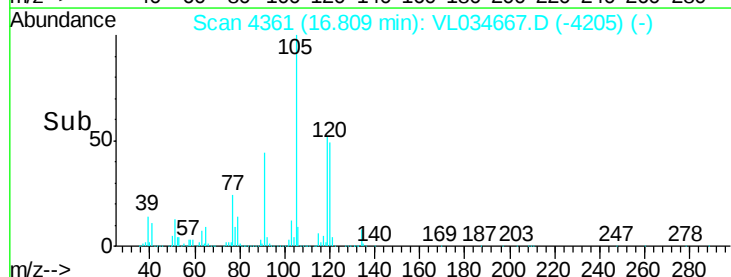
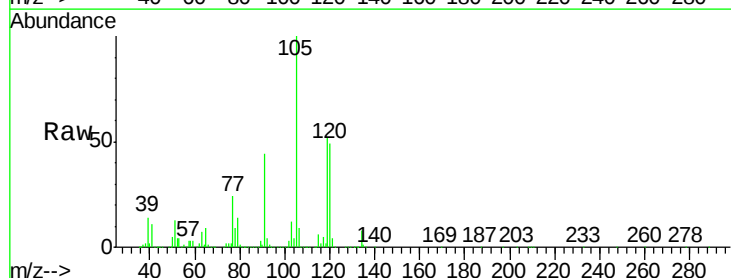
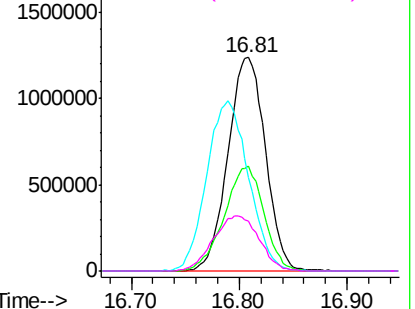
77 23.5 18.8 28.2

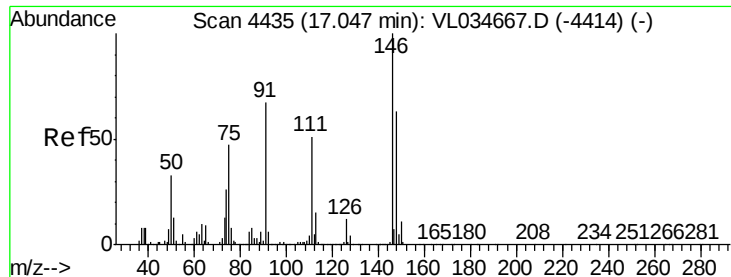
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.045 ppbv m

RT: 17.05 min Scan# 4435

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 1688878

Ion Ratio Lower Upper

146 100

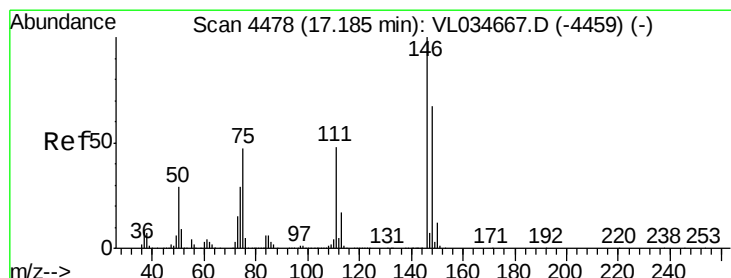
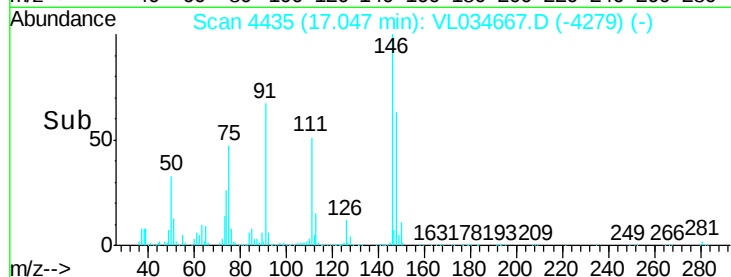
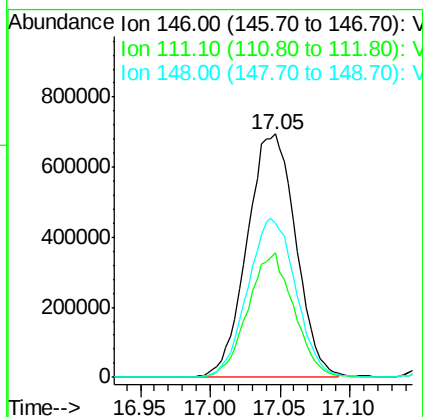
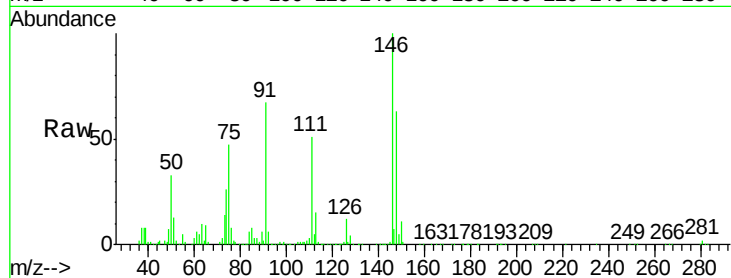
111 48.2 24.0 72.0

148 64.5 32.1 96.5

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 8.222 ppbv

RT: 17.18 min Scan# 4478

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

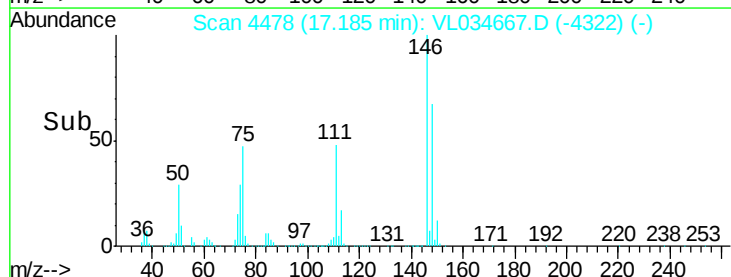
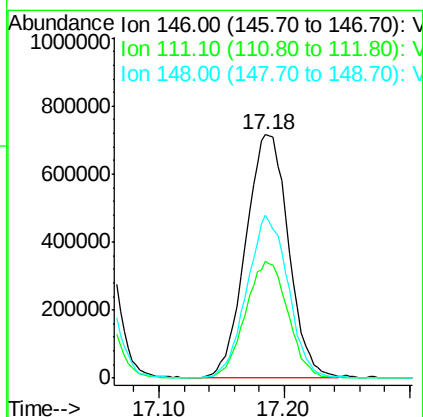
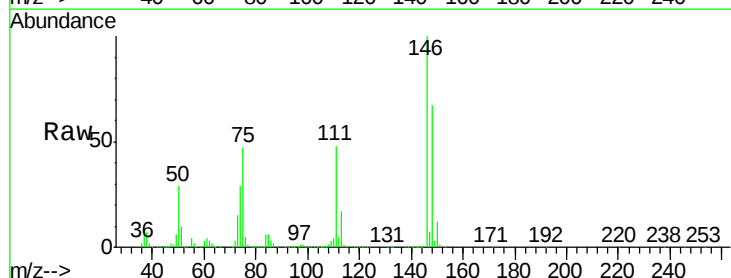
Tgt Ion:146 Resp: 1701162

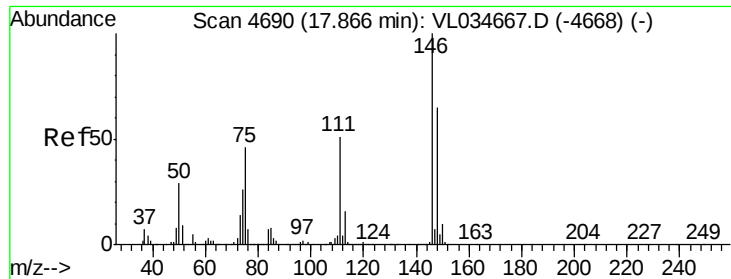
Ion Ratio Lower Upper

146 100

111 47.6 23.8 71.2

148 64.3 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 8.011 ppbv

RT: 17.87 min Scan# 4690

Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

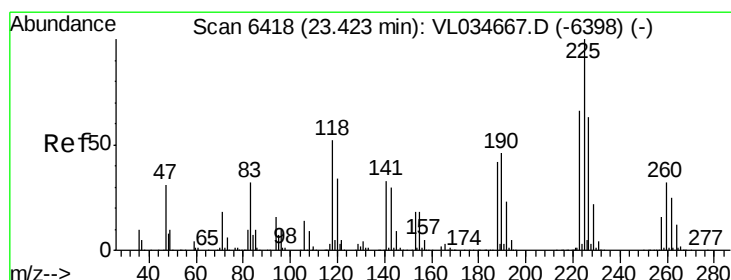
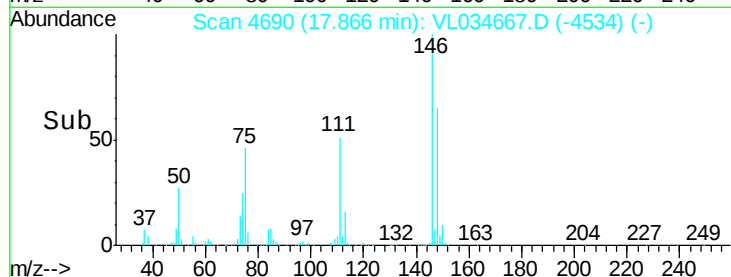
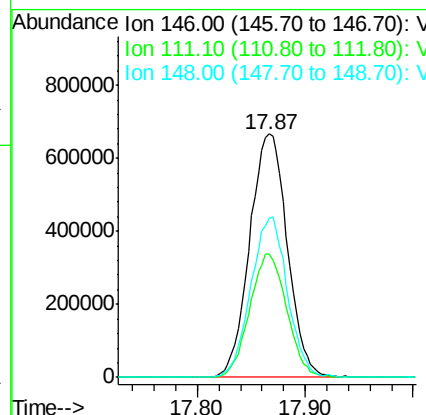
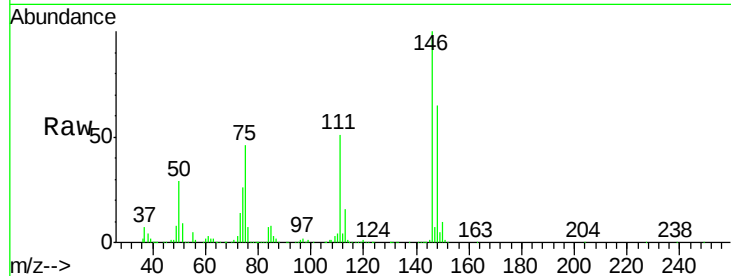
Instrument :
MSVOA_L

ClientSampled :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	24.9	74.7
148	64.4	32.1	96.3

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 6.311 ppbv

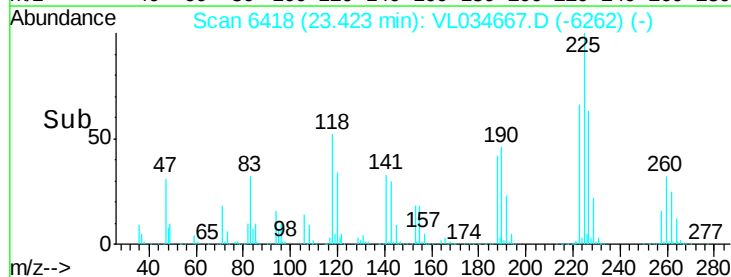
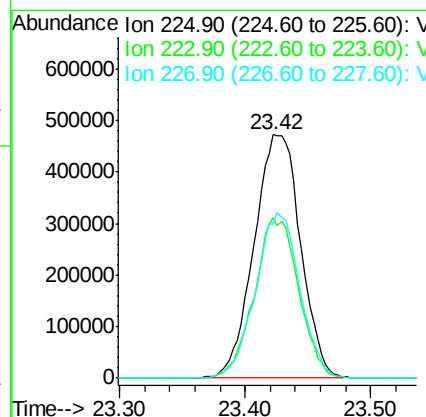
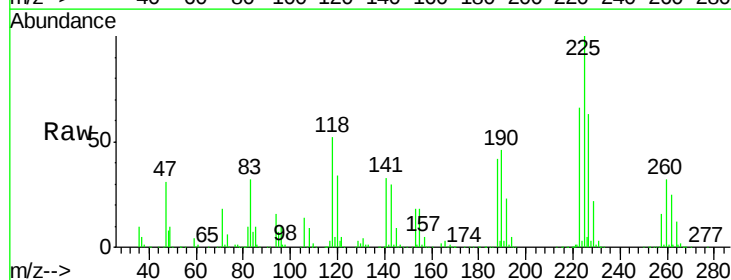
RT: 23.42 min Scan# 6418

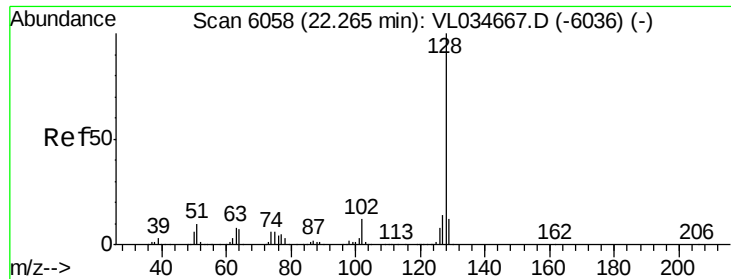
Delta R.T. 0.00 min

Lab File: VL034667.D

Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.4	75.6
227	64.8	51.8	77.8





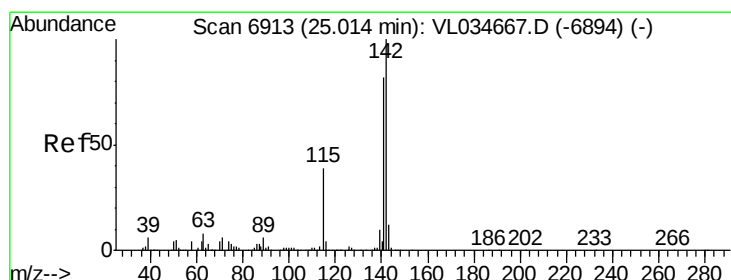
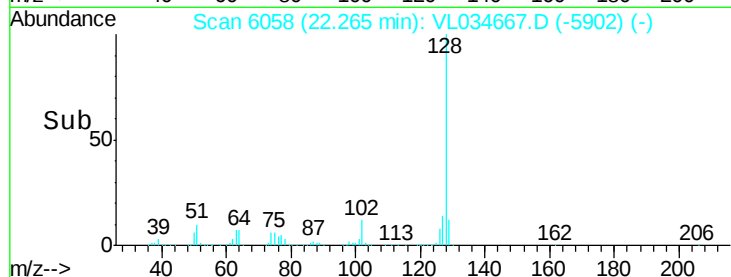
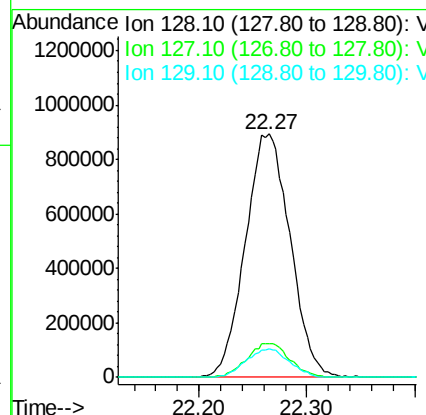
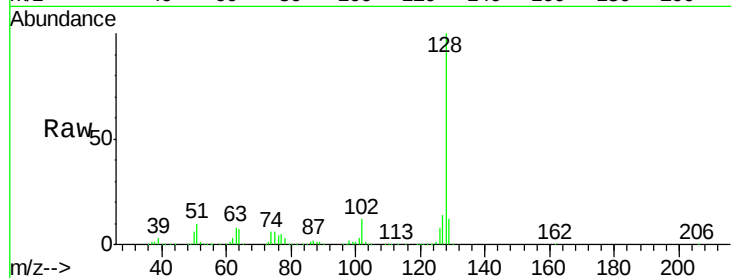
#79
Naphthalene
Concen: 8.990 ppbv
RT: 22.27 min Scan# 6058
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	11.0	16.4
129	11.9	9.5	14.3

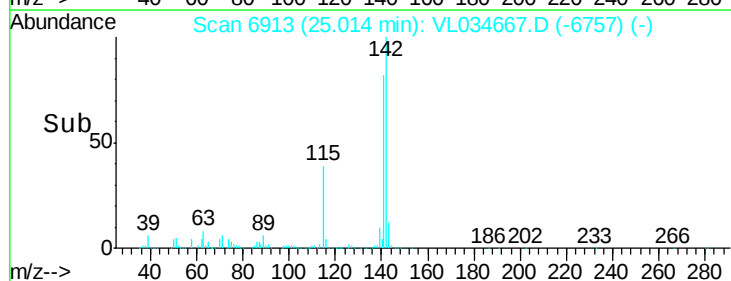
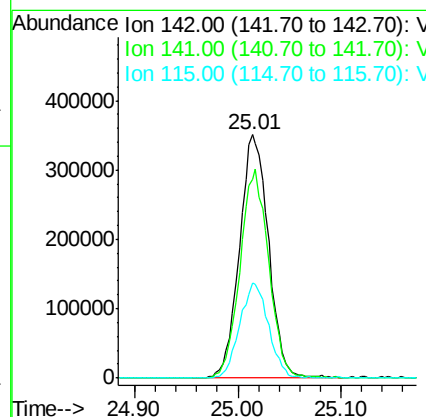
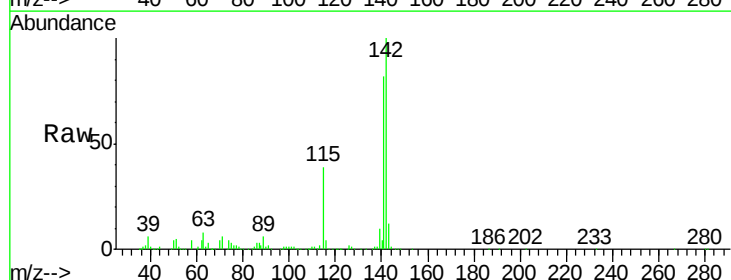
Manual Integrations
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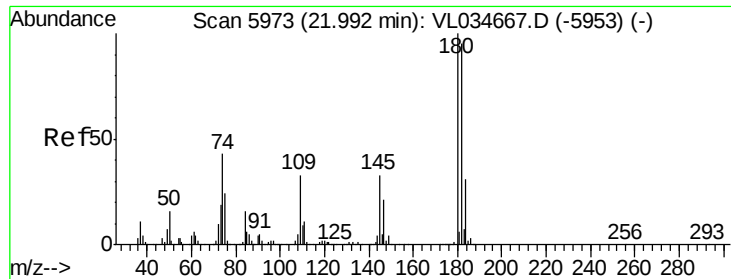
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#80
Naphthalene, 2-methyl-
Concen: 6.232 ppbv
RT: 25.01 min Scan# 6913
Delta R.T. 0.00 min
Lab File: VL034667.D
Acq: 25 Feb 2020 11:17

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.3	68.1	102.1
115	38.9	31.0	46.6





#81
 1,2,4-Trichlorobenzene
 Concen: 8.103 ppbv
 RT: 21.99 min Scan# 5973
 Delta R.T. 0.00 min
 Lab File: VL034667.D
 Acq: 25 Feb 2020 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	77.7	116.5
184	31.6	25.3	37.9

Manual Integrations
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