

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100219\
 Data File : VL034205.D
 Acq On : 2 Oct 2019 9:40
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/7/2019 12:29:06 PM

Quant Time: Oct 03 05:53:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1092378	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1930567	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2109075	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1779102	9.71	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1335531	8.277	ppbv 99
3) Chlorodifluoromethane	2.97	51	1305394	10.192	ppbv 100
4) Chloromethane	3.12	50	794804	10.560	ppbv 98
5) Vinyl Chloride	3.24	62	717712	10.434	ppbv 99
6) Bromomethane	3.46	94	343545	10.705	ppbv 99
7) Chloroethane	3.55	64	255964	10.646	ppbv 100
8) Dichlorotetrafluoroethane	3.17	85	1444942	10.146	ppbv 98
9) Propene	2.99	41	659382	10.435	ppbv 99
10) Heptane	8.17	43	1700016	10.322	ppbv 99
11) Trichlorofluoromethane	3.95	101	1518407	10.338	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	987192	10.270	ppbv 99
13) Ethanol	3.60	45	141067	9.219	ppbv 97
14) Bromoethene	3.74	108	435705	11.087	ppbv 99
15) Acetone	3.85	43	1315924	8.988	ppbv 100
16) 1,3-Butadiene	3.31	39	688593	10.777	ppbv 99
17) tert-Butyl alcohol	4.30	59	1175772	12.675	ppbv 100
18) 1,1-Dichloroethene	4.29	96	456842	10.897	ppbv 94
19) Isopropyl Alcohol	3.97	45	1041841	11.572	ppbv 100
20) Methylene Chloride	4.35	84	412149	9.764	ppbv 97
21) Allyl Chloride	4.42	41	915659	11.073	ppbv 100
22) trans-1,2-Dichloroethene	4.90	96	463949	11.061	ppbv 94
23) Vinyl Acetate	5.09	43	2290546	10.617	ppbv 99
24) 1,1-Dichloroethane	5.03	63	1482822	10.207	ppbv 99
25) Ethyl Acetate	5.70	43	2761699	9.975	ppbv 100
26) Hexane	5.72	57	1167156	10.134	ppbv 99
27) Carbon Disulfide	4.56	76	1243968	11.712	ppbv 99
28) Methyl tert-Butyl Ether	5.05	73	1858615	10.866	ppbv 100
29) Chloroform	5.78	83	1728987	10.506	ppbv 97
30) Cyclohexane	7.18	84	876768	10.545	ppbv 99
31) cis-1,2-Dichloroethene	5.57	61	1269002	10.809	ppbv 99
32) 1,1,1-Trichloroethane	6.55	97	1661952	10.471	ppbv 99
34) 2-Butanone	5.26	43	1940078	9.842	ppbv 99
35) Carbon Tetrachloride	7.06	117	1616902	10.081	ppbv 99
36) Benzene	6.93	78	2150428	10.086	ppbv 98
37) 1,2-Dichloroethane	6.35	62	1549359	10.216	ppbv 100
38) Trichloroethene	7.89	130	732191	9.611	ppbv 98
39) 1,2-Dichloropropane	7.66	63	966290	10.086	ppbv 99
40) 1,4-Dioxane	7.88	88	328044	10.581	ppbv # 89
41) Tetrahydrofuran	6.08	42	1164420	10.488	ppbv 100
42) Bromodichloromethane	7.84	83	1915203	10.523	ppbv 99
43) Methyl Methacrylate	8.06	69	958635	10.884	ppbv 98

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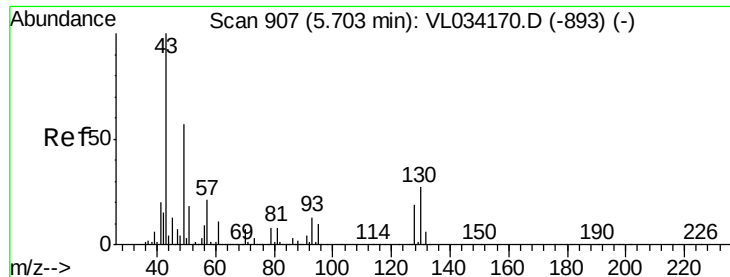
Manual Integrations
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MMDadoda
 10/7/2019 12:29:06 PM

Quant Time: Oct 03 05:53:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18
 QLast Update : Wed Sep 18 12:53:31 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3978650	9.693	ppbv	99
45) t-1,3-Dichloropropene	9.34	75	1269298	12.188	ppbv	100
46) cis-1,3-Dichloropropene	8.76	75	1427834	11.397	ppbv	98
47) 1,1,2-Trichloroethane	9.54	97	859374	9.990	ppbv	96
48) Dibromochloromethane	10.38	129	1460503	10.712	ppbv	100
49) Bromoform	13.13	173	1223529m	11.089	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	2823204	9.841	ppbv	100
51) 2-Hexanone	10.19	43	2436839	10.121	ppbv #	99
52) Tetrachloroethene	11.29	164	665337	9.445	ppbv	96
53) Toluene	9.87	91	2395295	10.279	ppbv	99
54) 1,2-Dibromoethane	10.68	107	1310792	10.246	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.20	131	934551	9.936	ppbv	99
57) Chlorobenzene	12.22	112	1712452	9.326	ppbv	98
58) Ethyl Benzene	12.79	91	3268858	9.606	ppbv	98
59) m/p-Xylene	13.07	91	5311905m	18.845	ppbv	
60) o-Xylene	13.77	91	2626344	9.318	ppbv	99
61) Styrene	13.61	104	2004786	9.930	ppbv	99
62) Isopropylbenzene	14.75	105	3423526	9.383	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1952042	8.446	ppbv	100
64) n-propylbenzene	15.64	120	890000	9.642	ppbv	93
65) tert-Butylbenzene	16.83	119	2898229	9.091	ppbv	100
66) Benzyl Chloride	17.08	91	1565743	13.882	ppbv	99
67) sec-Butylbenzene	17.38	105	4252962	9.329	ppbv	100
69) p-Isopropyltoluene	17.74	119	3444568	9.331	ppbv	99
70) n-Butylbenzene	18.63	91	3955103	9.202	ppbv	99
71) 2-Chlorotoluene	15.54	91	2826653	9.482	ppbv	99
72) 4-Ethyltoluene	15.92	105	3059713	9.609	ppbv	99
73) 1,3,5-Trimethylbenzene	16.08	105	2914734	9.475	ppbv	99
74) 1,2,4-Trimethylbenzene	16.85	105	2937592	8.993	ppbv	97
75) 1,3-Dichlorobenzene	17.09	146	1604461	9.155	ppbv	99
76) 1,4-Dichlorobenzene	17.23	146	1640967	9.143	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1615341	9.107	ppbv	100
78) Hexachloro-1,3-Butadiene	23.47	225	1183307	10.072	ppbv	99
79) Naphthalene	22.31	128	2677953	9.312	ppbv	97
80) Naphthalene, 2-methyl-	25.05	142	1449081	10.836	ppbv	98
81) 1,2,4-Trichlorobenzene	22.04	180	1457251	9.148	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1092378

Ion Ratio Lower Upper

49 100

128 35.6 17.6 52.9

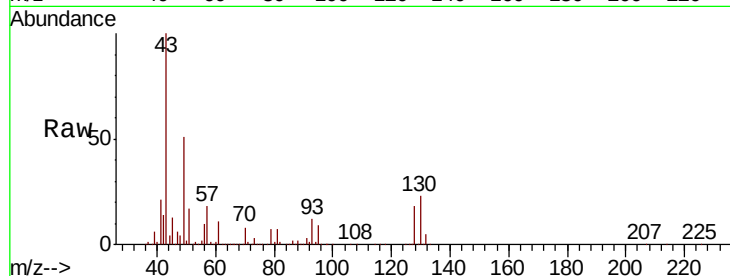
130 45.3 22.3 66.9

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

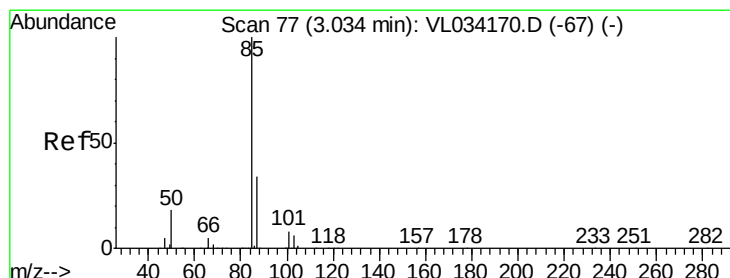
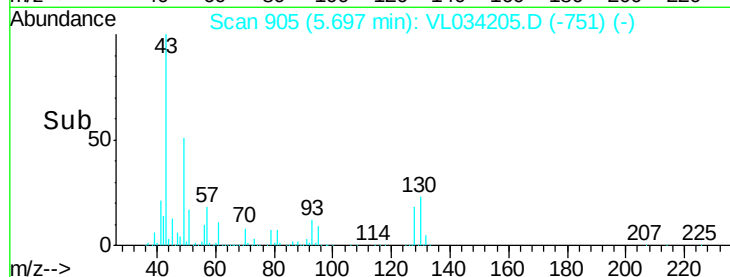
400000

200000

0

5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 8.277 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034205.D

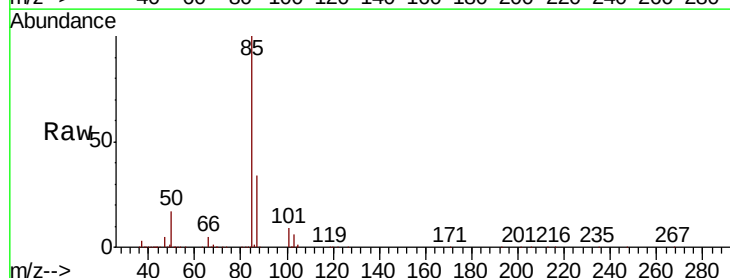
Acq: 2 Oct 2019 9:40

Tgt Ion: 85 Resp: 1335531

Ion Ratio Lower Upper

85 100

87 33.7 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1200000

1000000

800000

600000

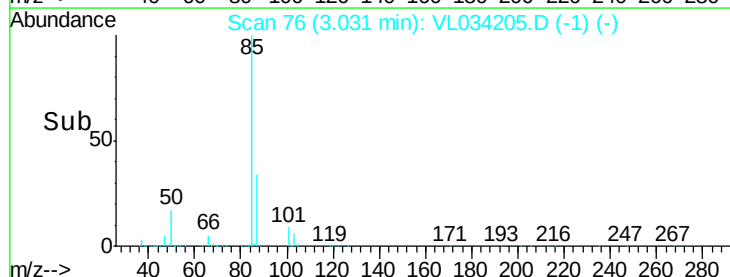
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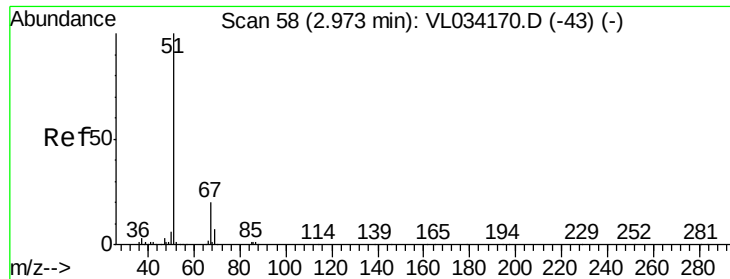
200000

0

3.00 3.05

Time-->





#3

Chlorodifluoromethane

Concen: 10.192 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1305394

Ion Ratio Lower Upper

51 100

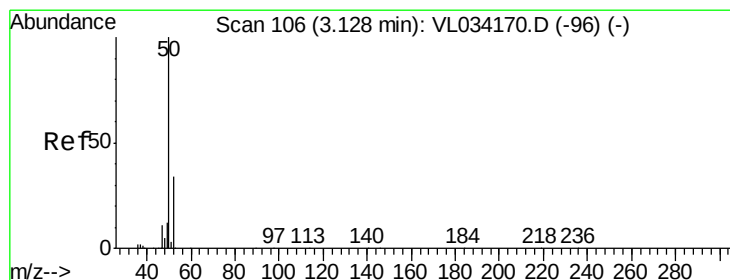
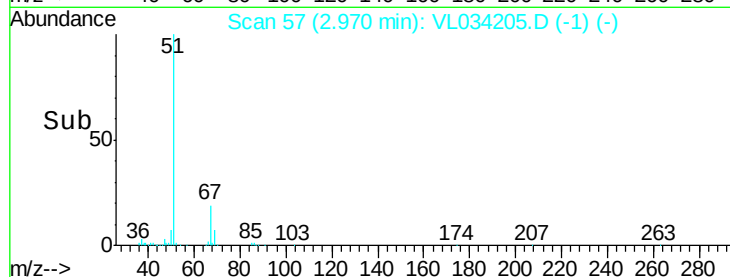
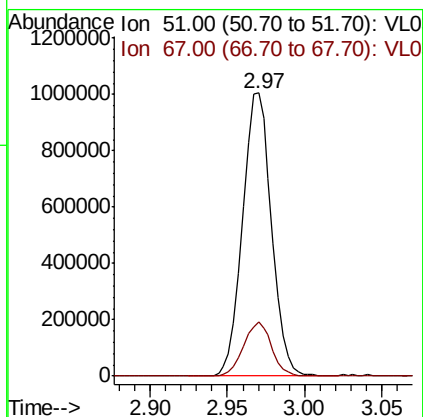
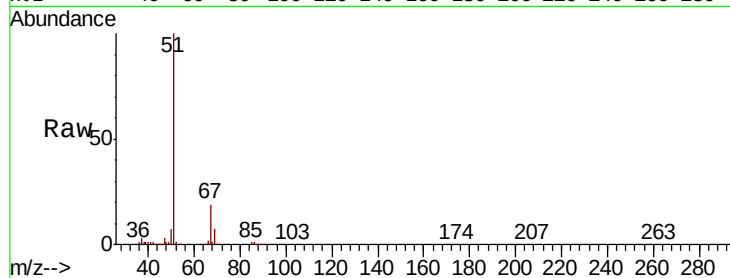
67 18.6 14.8 22.2

Manual Integrations

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#4

Chloromethane

Concen: 10.560 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034205.D

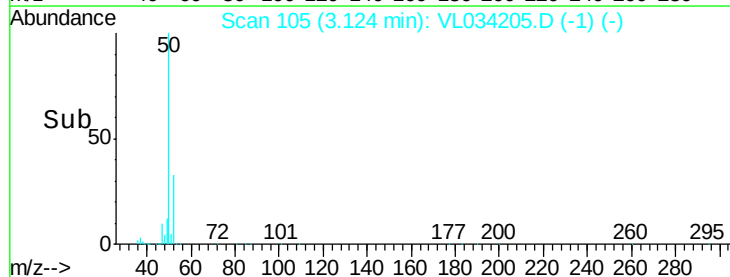
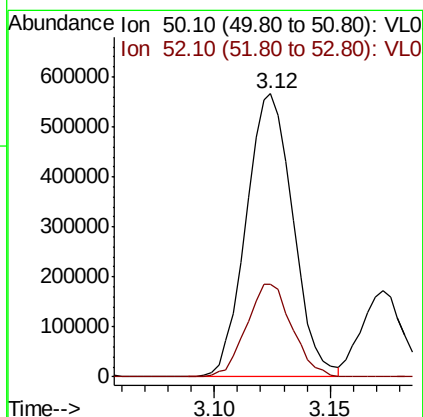
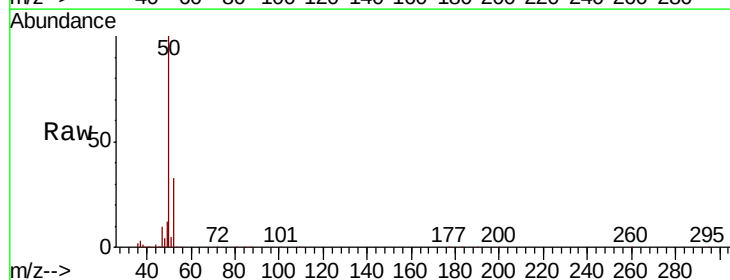
Acq: 2 Oct 2019 9:40

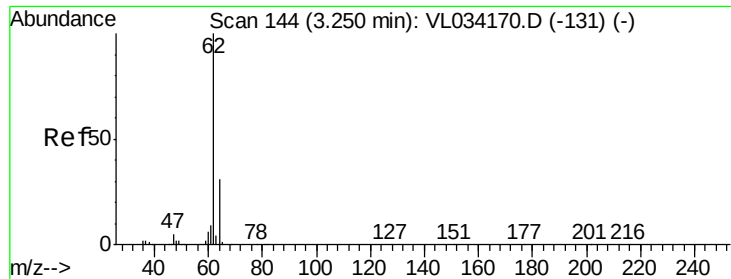
Tgt Ion: 50 Resp: 794804

Ion Ratio Lower Upper

50 100

52 32.9 27.1 40.7





#5

Vinyl Chloride

Concen: 10.434 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 717712

Ion Ratio Lower Upper

62 100

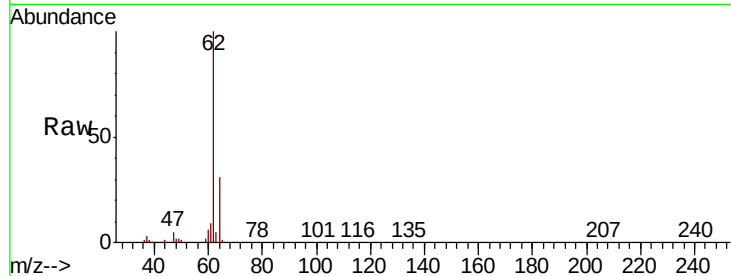
64 31.0 25.2 37.8

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.24

600000

500000

400000

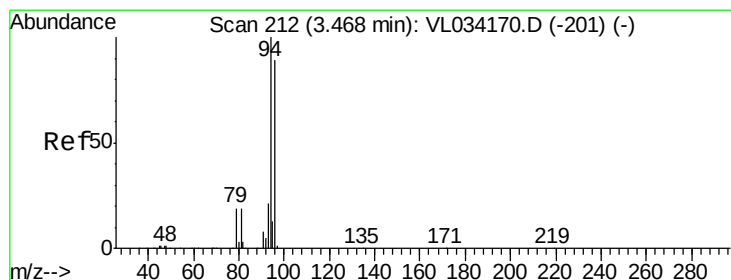
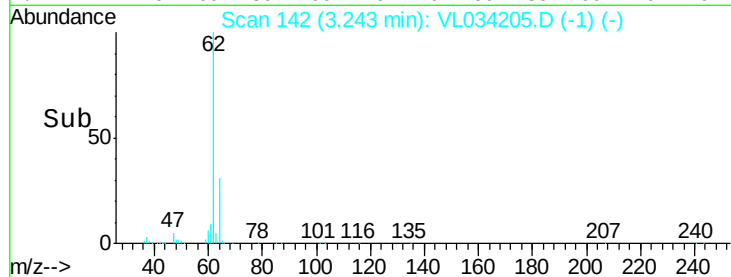
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 10.705 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.01 min

Lab File: VL034205.D

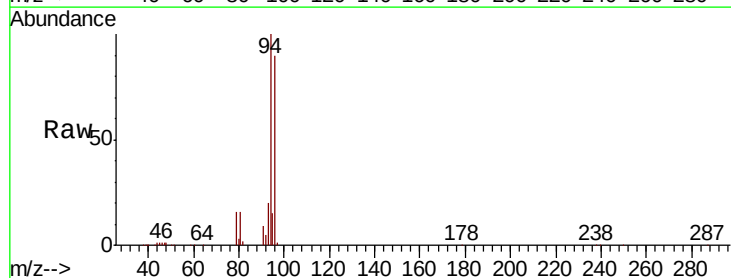
Acq: 2 Oct 2019 9:40

Tgt Ion: 94 Resp: 343545

Ion Ratio Lower Upper

94 100

96 90.1 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.46

250000

200000

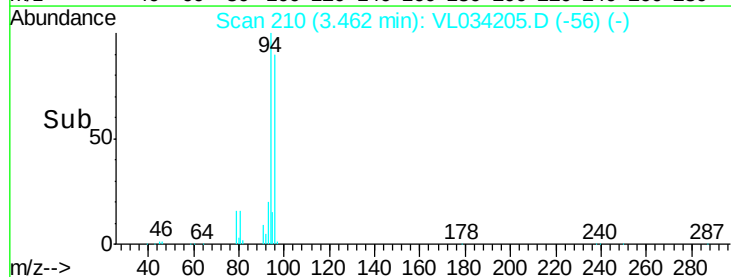
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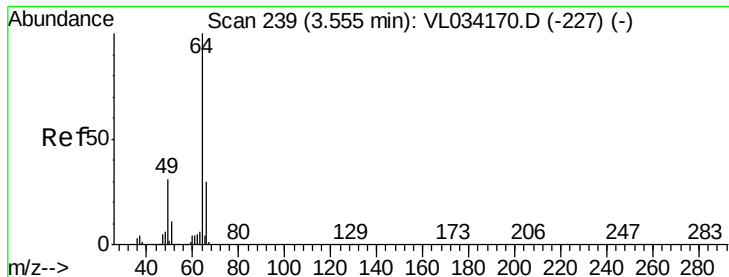
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.646 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 255964

Ion Ratio Lower Upper

64 100

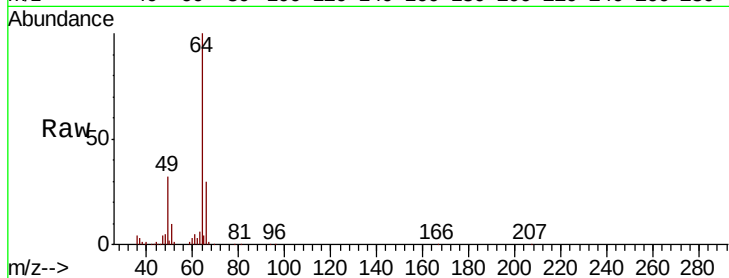
66 30.2 24.2 36.4

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

200000

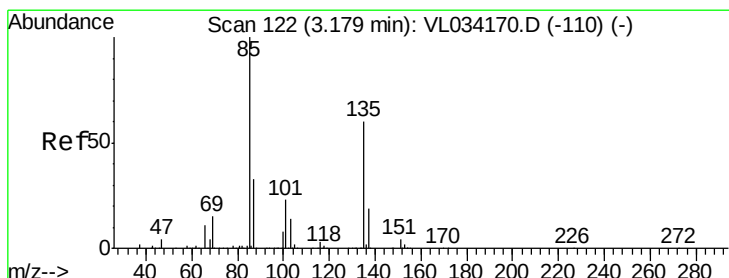
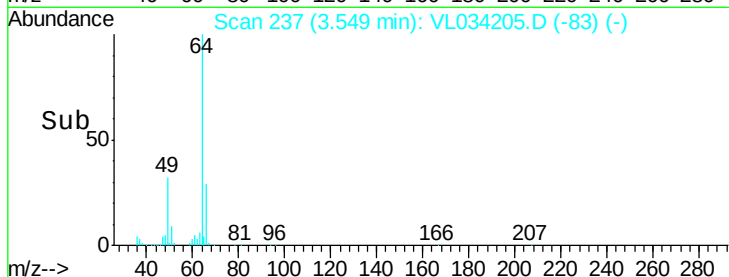
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.146 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.01 min

Lab File: VL034205.D

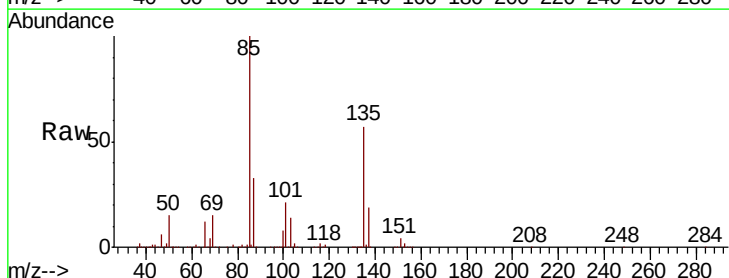
Acq: 2 Oct 2019 9:40

Tgt Ion: 85 Resp: 1444942

Ion Ratio Lower Upper

85 100

135 57.6 47.3 70.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.17

1200000

1000000

800000

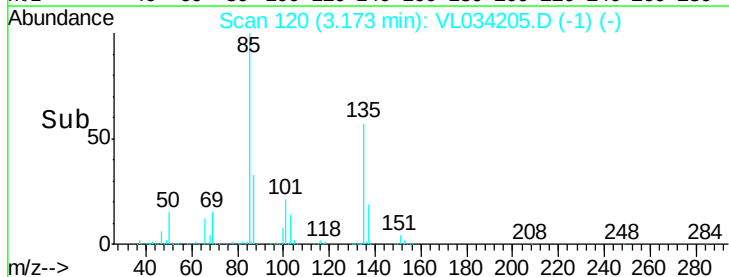
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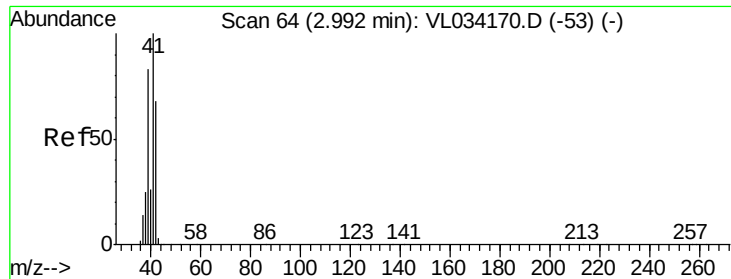
400000

200000

0

Time-->





#9

Propene

Concen: 10.435 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 659382

Ion Ratio Lower Upper

41 100

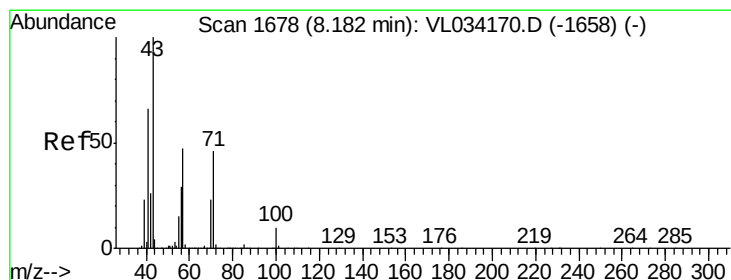
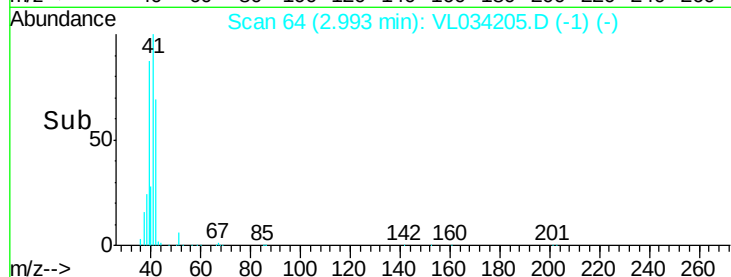
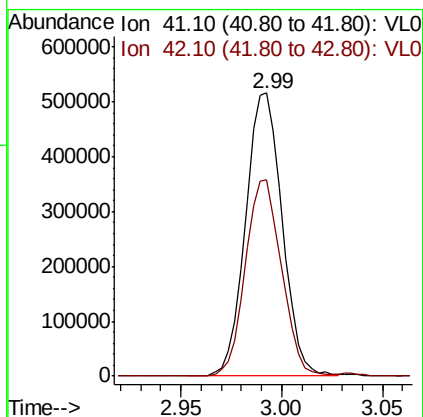
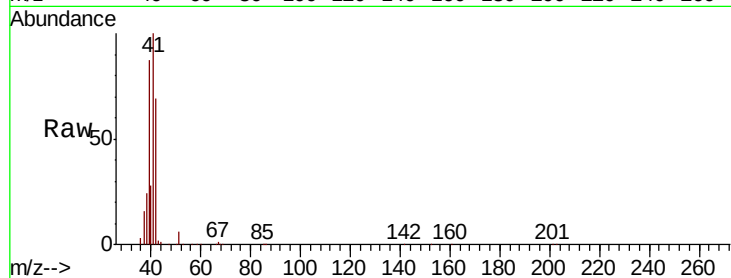
42 69.1 55.8 83.6

Manual Integrations

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#10

Heptane

Concen: 10.322 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. -0.01 min

Lab File: VL034205.D

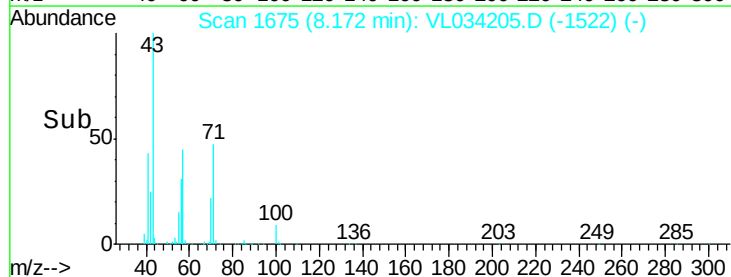
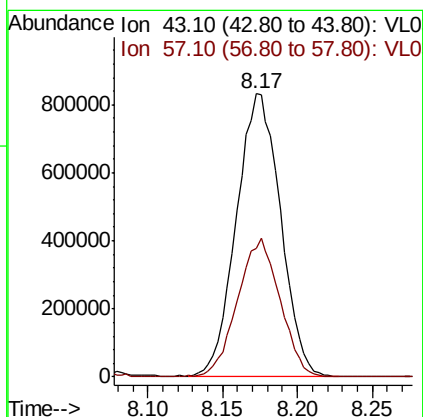
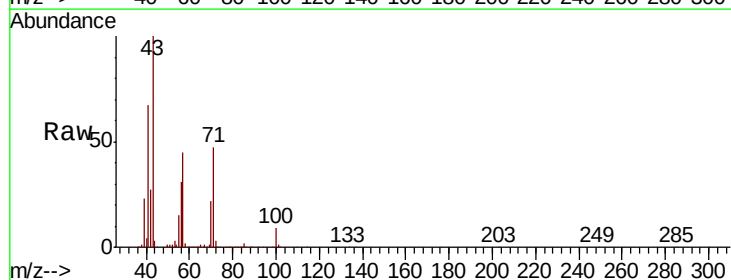
Acq: 2 Oct 2019 9:40

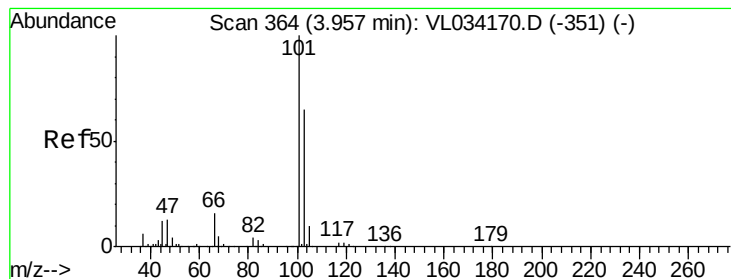
Tgt Ion: 43 Resp: 1700016

Ion Ratio Lower Upper

43 100

57 47.4 37.5 56.3





#11

Trichlorofluoromethane

Concen: 10.338 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1518407

Ion Ratio Lower Upper

101 100

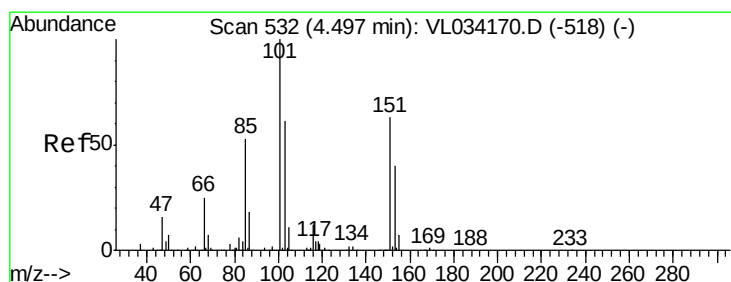
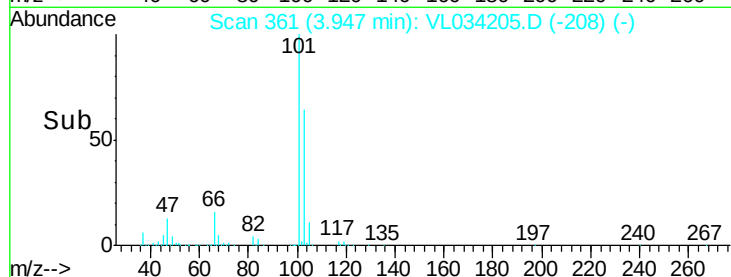
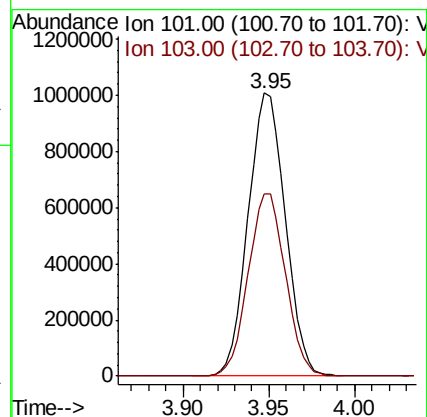
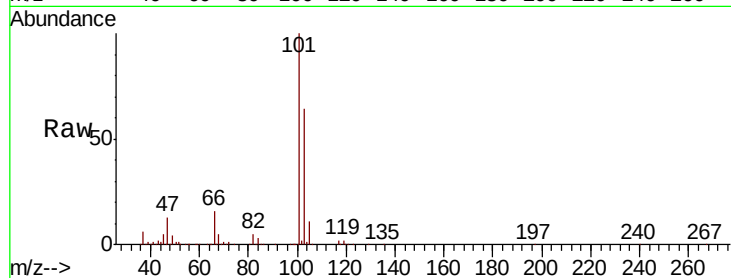
103 64.5 52.1 78.1

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.270 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL034205.D

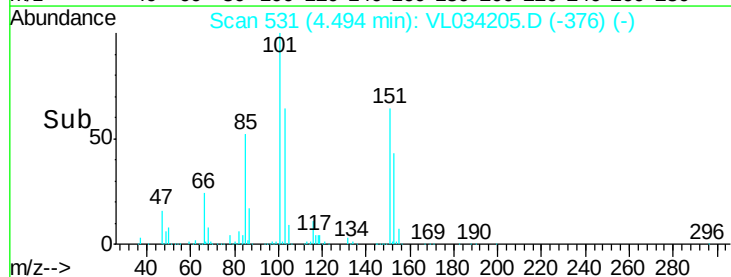
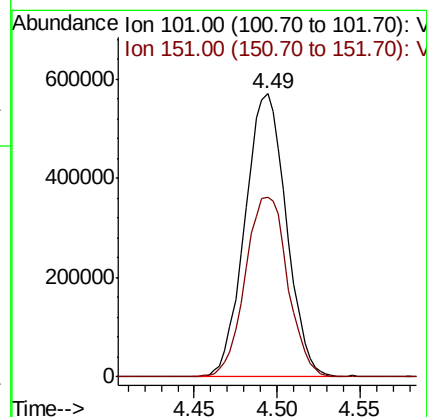
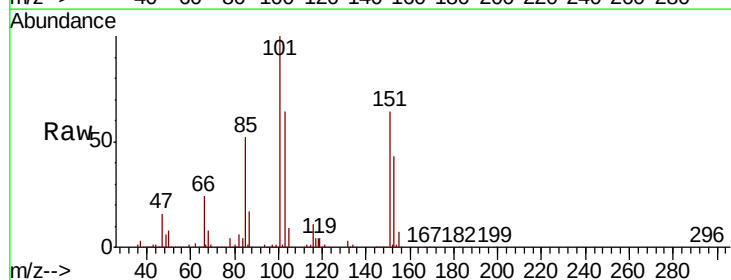
Acq: 2 Oct 2019 9:40

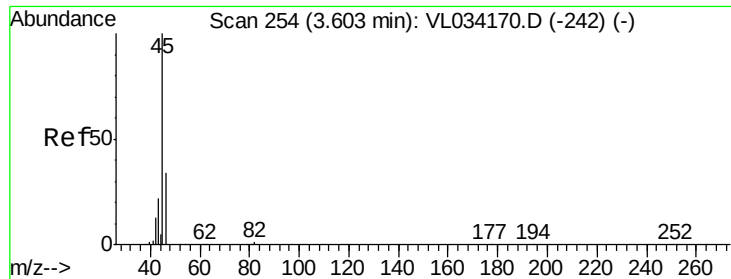
Tgt Ion:101 Resp: 987192

Ion Ratio Lower Upper

101 100

151 65.6 51.8 77.8





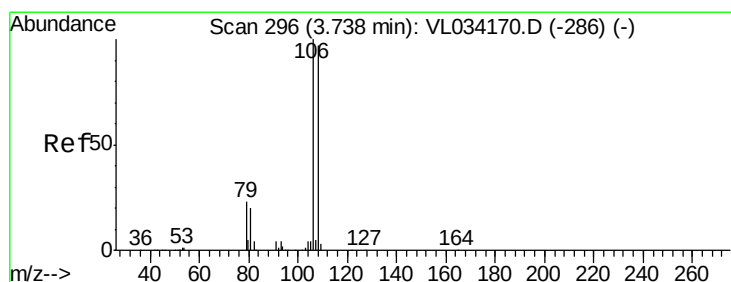
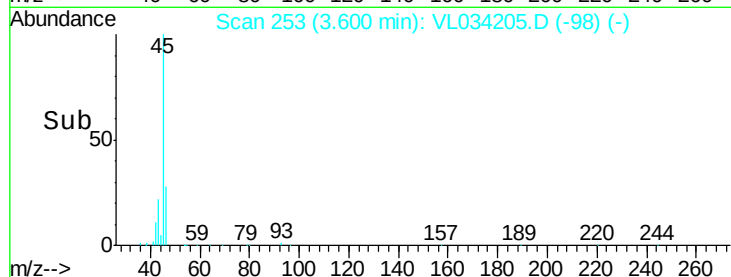
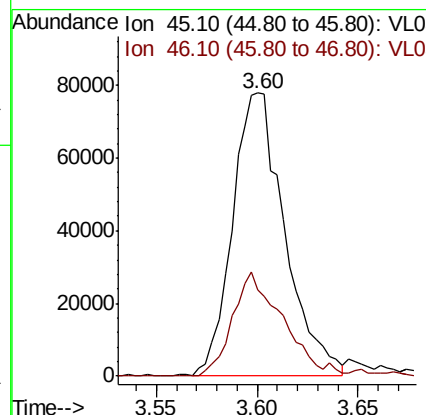
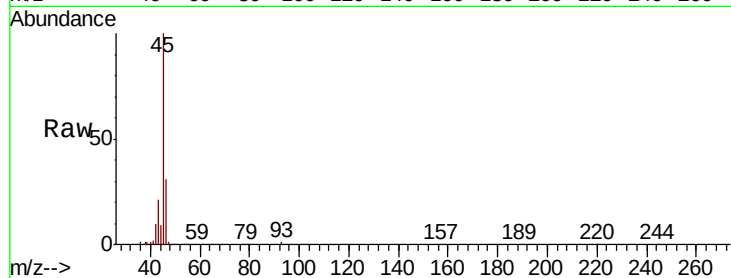
#13
Ethanol
Concen: 9.219 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	46	Ratio	Lower	Upper
141067	100	36.7		15.5	61.9

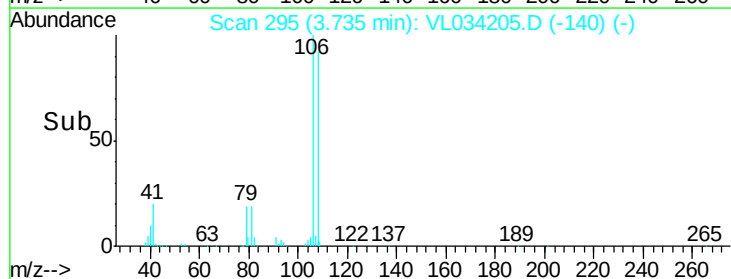
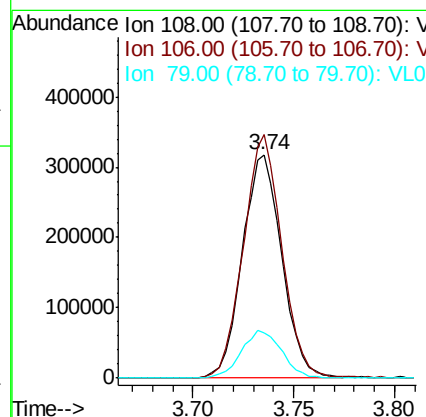
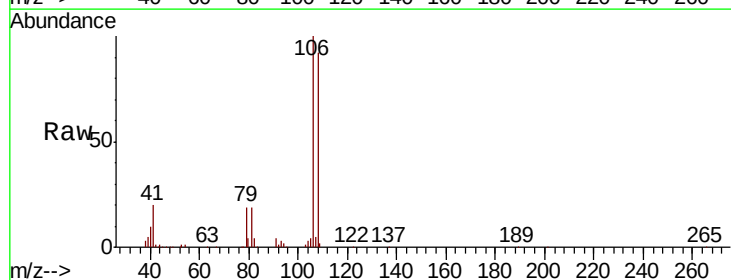
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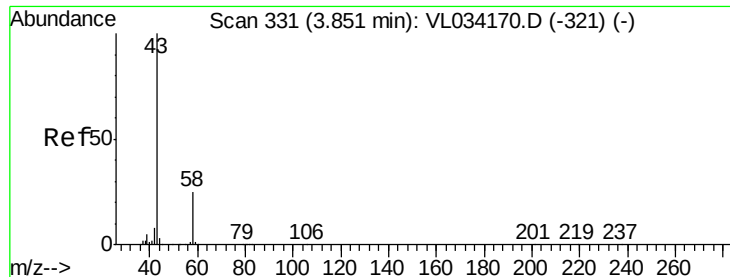
MMDadoda
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#14
Bromoethene
Concen: 11.087 ppbv
RT: 3.74 min Scan# 295
Delta R.T. -0.00 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tgt Ion	108	106	79	Ratio	Lower	Upper
435705	100	107.0	22.1		86.2	129.4





#15

Acetone

Concen: 8.988 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1315924

Ion Ratio Lower Upper

43 100

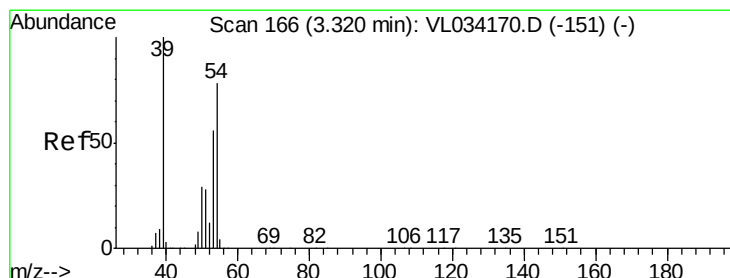
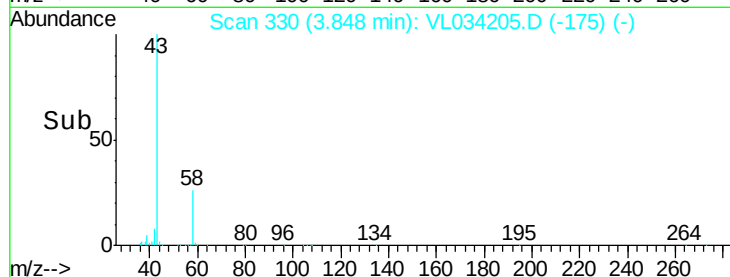
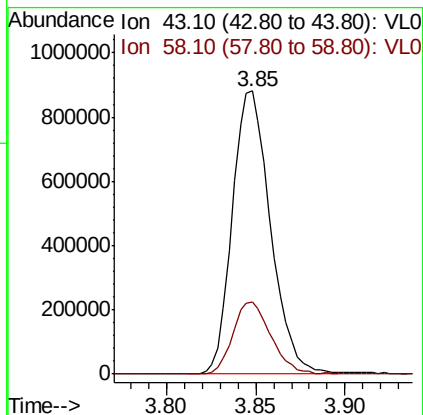
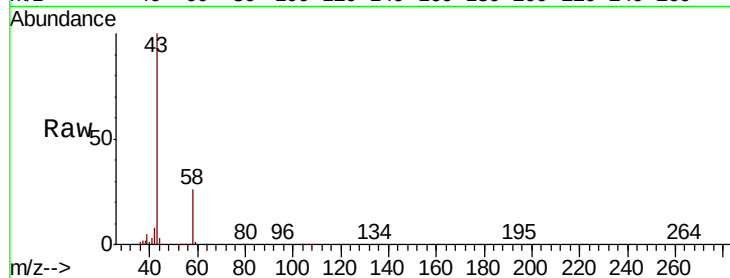
58 25.6 20.5 30.7

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#16

1,3-Butadiene

Concen: 10.777 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL034205.D

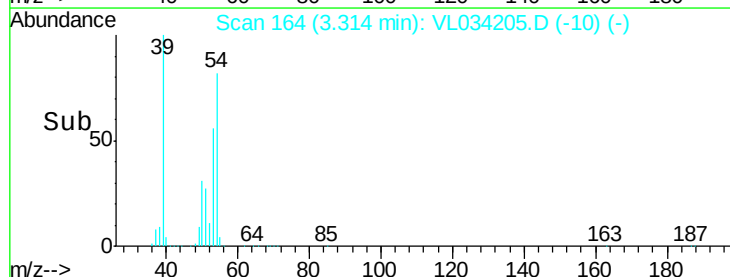
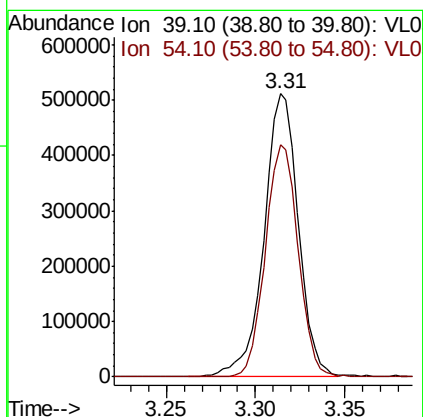
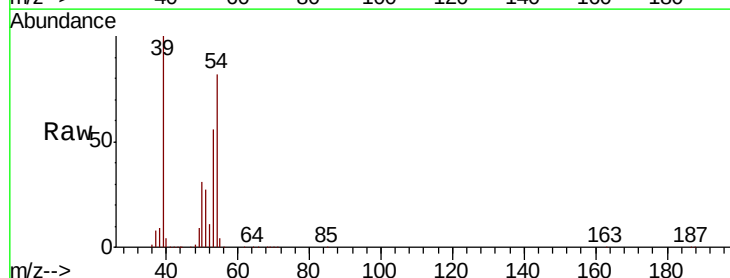
Acq: 2 Oct 2019 9:40

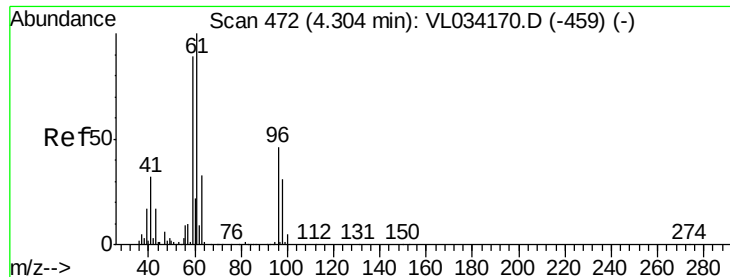
Tgt Ion: 39 Resp: 688593

Ion Ratio Lower Upper

39 100

54 78.7 63.4 95.0





#17

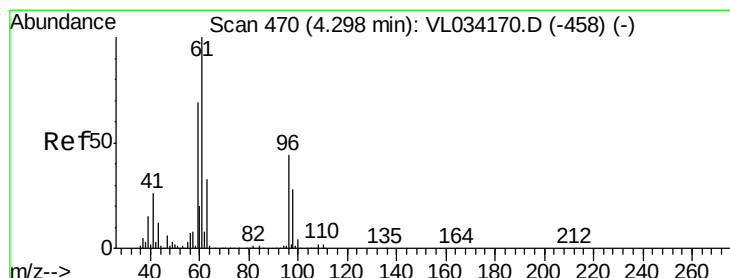
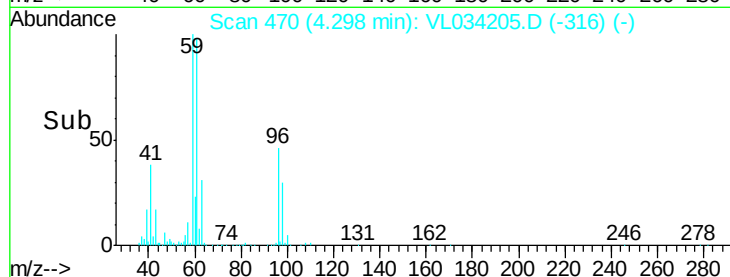
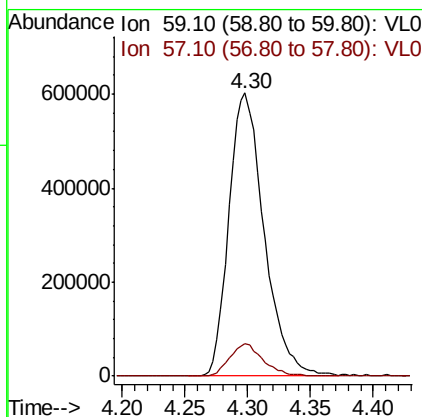
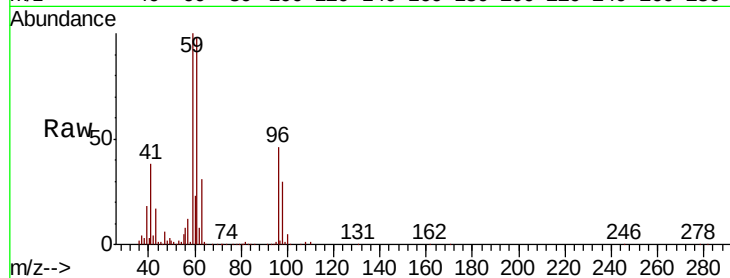
tert-Butyl alcohol
 Concen: 12.675 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 59 Resp: 1175772
 Ion Ratio Lower Upper
 59 100
 57 11.0 8.7 13.1

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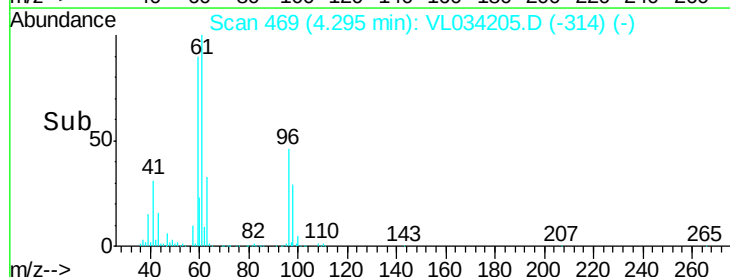
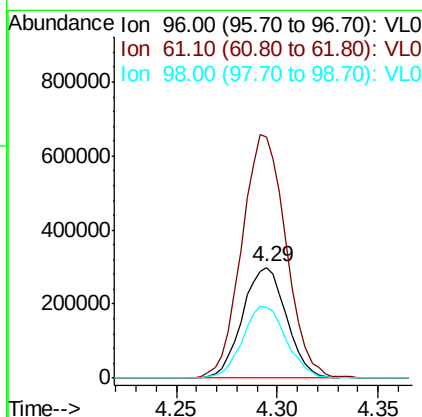
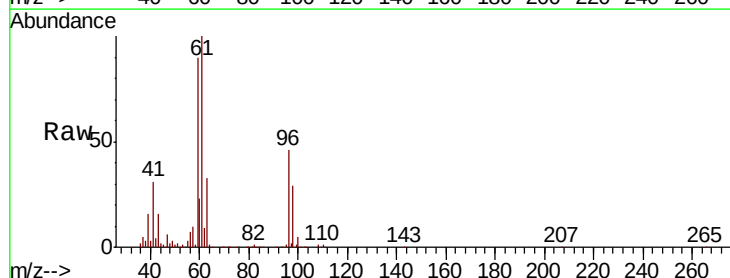
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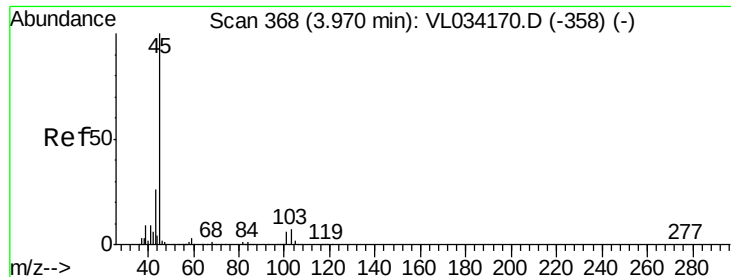


#18

1,1-Dichloroethene
 Concen: 10.897 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. -0.00 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Tgt Ion: 96 Resp: 456842
 Ion Ratio Lower Upper
 96 100
 61 217.8 183.3 274.9
 98 63.7 51.4 77.2





#19

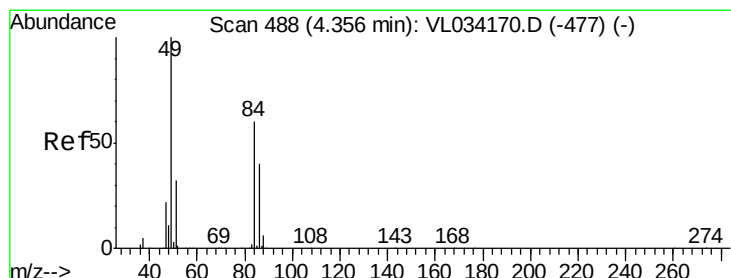
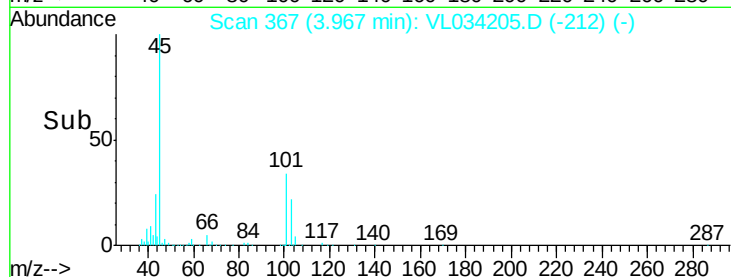
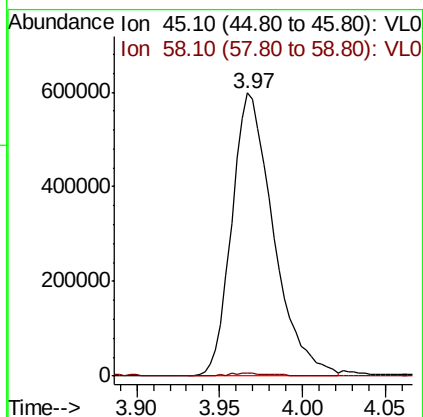
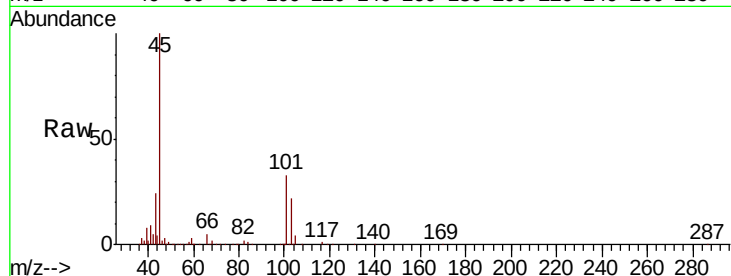
Isopropyl Alcohol
 Concen: 11.572 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 45 Resp: 1041841
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.4 2.0

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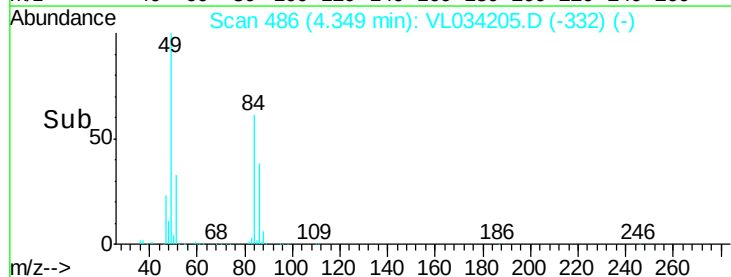
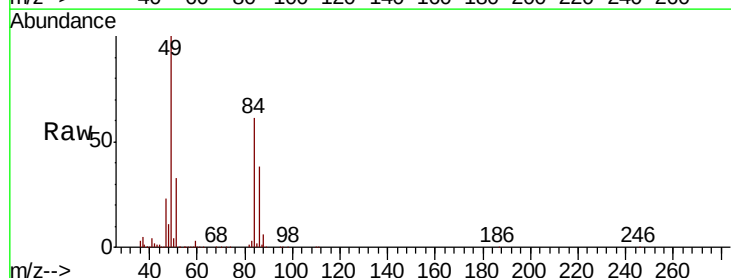
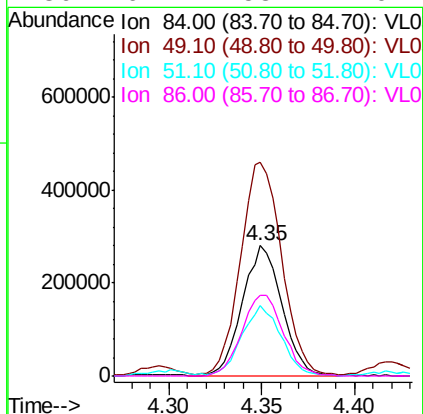
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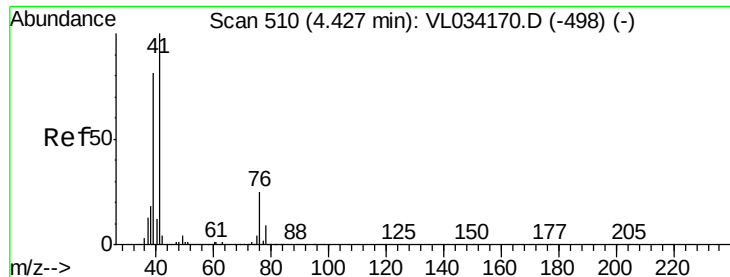


#20

Methylene Chloride
 Concen: 9.764 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Tgt Ion: 84 Resp: 412149
 Ion Ratio Lower Upper
 84 100
 49 162.9 133.8 200.8
 51 53.8 43.6 65.4
 86 62.1 53.1 79.7





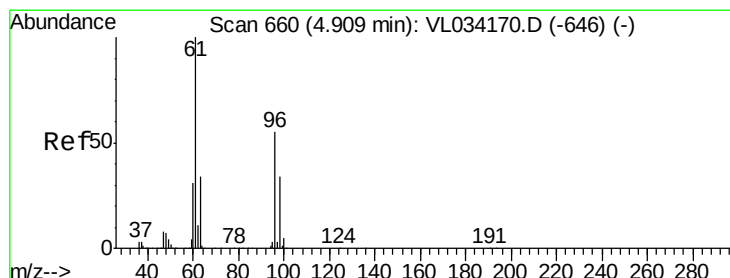
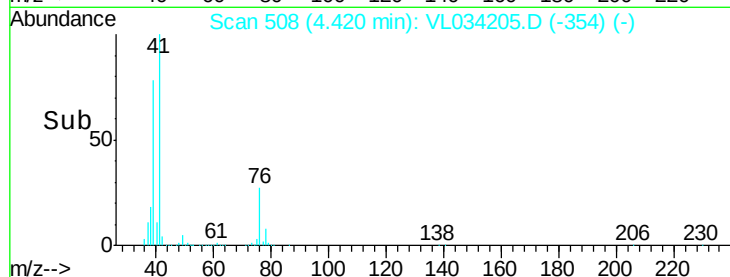
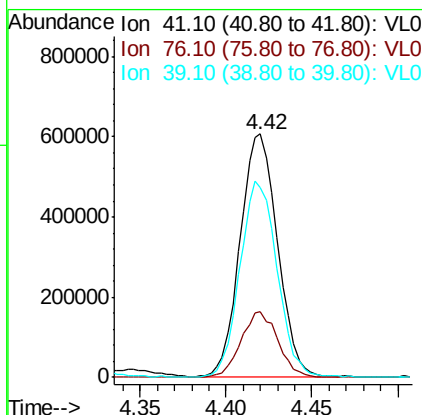
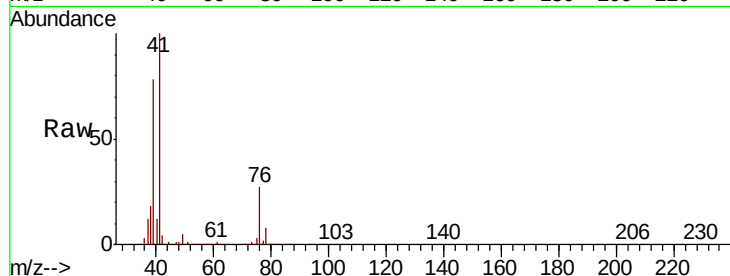
#21
Allvl Chloride
Concen: 11.073 ppbv
RT: 4.42 min Scan# 508
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Resp	Lower	Upper
41	100	915659		
76	26.6		21.8	32.6
39	80.8		64.8	97.2

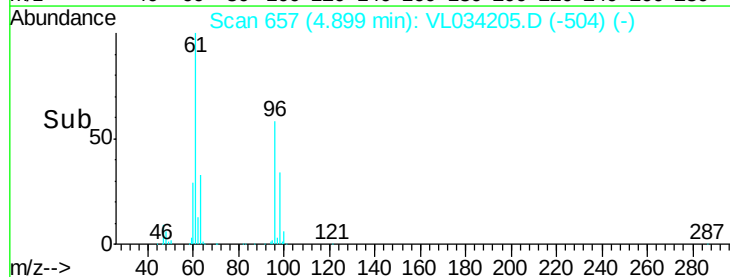
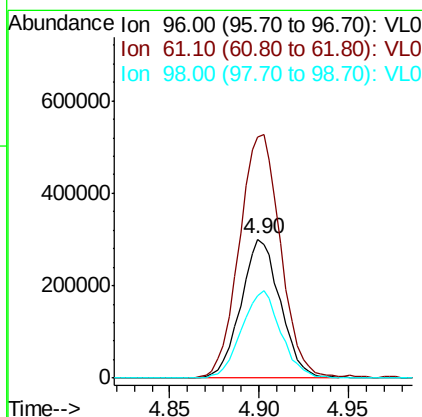
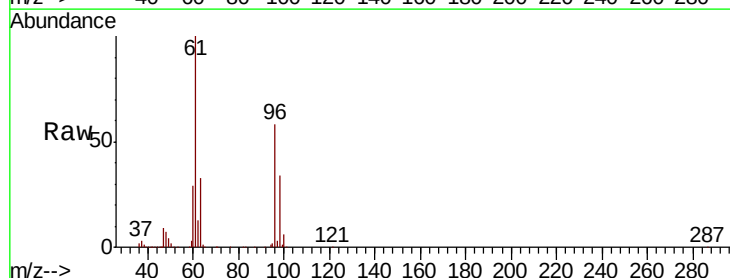
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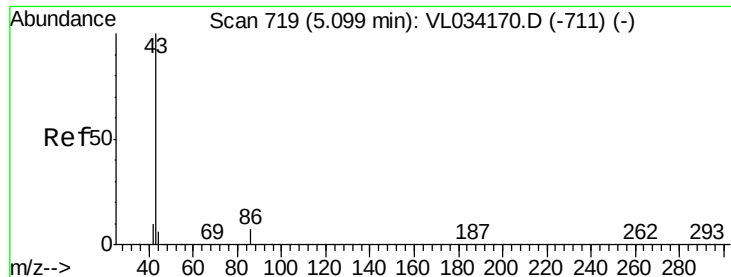
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#22
trans-1,2-Dichloroethene
Concen: 11.061 ppbv
RT: 4.90 min Scan# 657
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	463949		
61	173.1		145.5	218.3
98	58.9		49.9	74.9





#23

Vinyl Acetate

Concen: 10.617 ppbv

RT: 5.09 min Scan# 717

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2290546

Ion Ratio Lower Upper

43 100

86 6.5 5.1 7.7

42 10.2 8.6 12.8

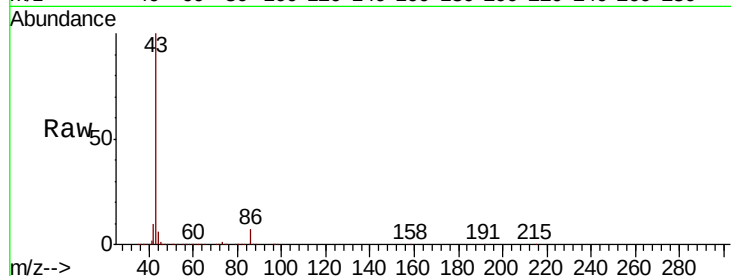
44 5.5 4.7 7.1

Manual Integrations

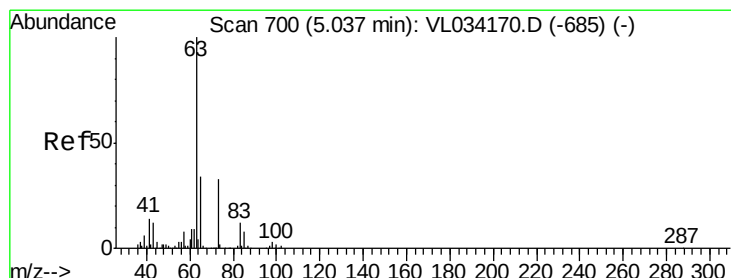
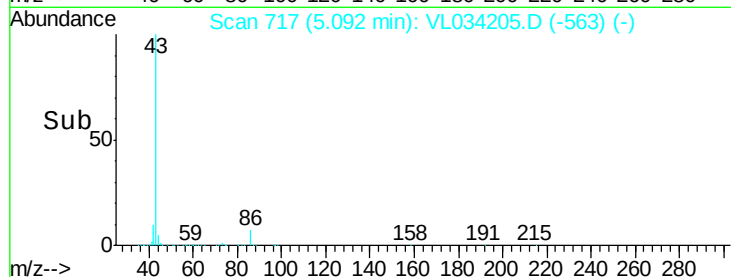
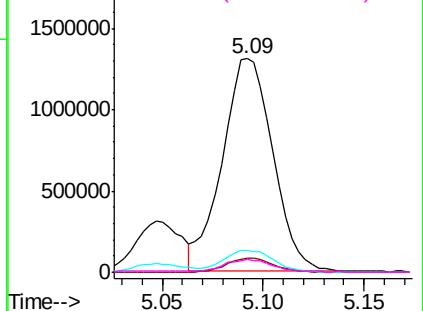
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.207 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

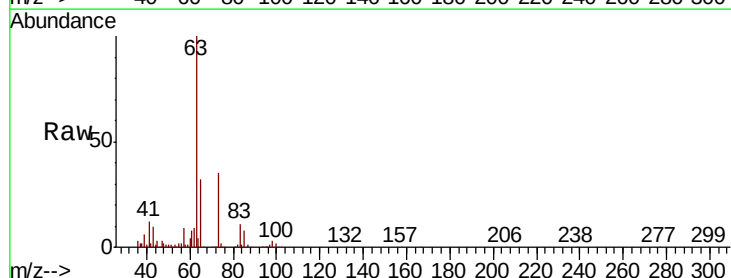
Tgt Ion: 63 Resp: 1482822

Ion Ratio Lower Upper

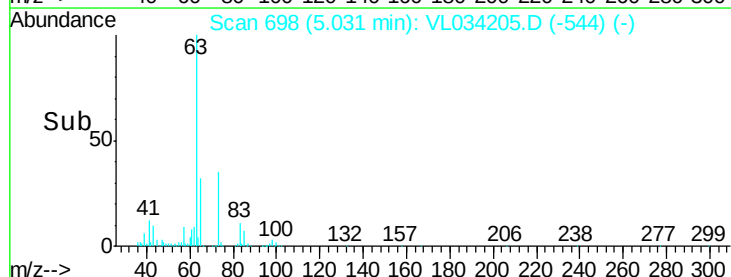
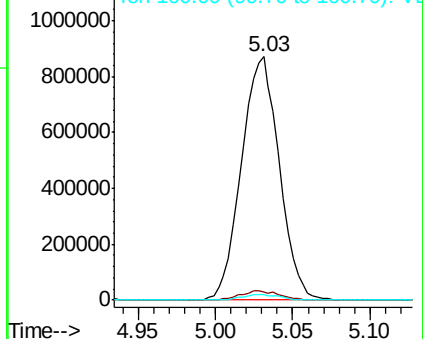
63 100

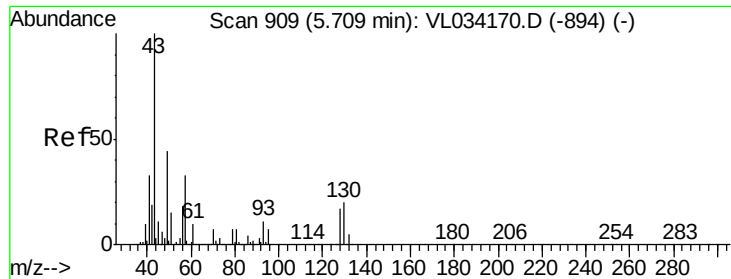
98 3.3 1.8 5.3

100 2.2 1.0 3.0



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





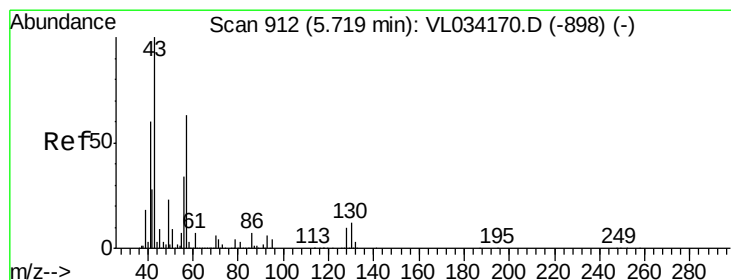
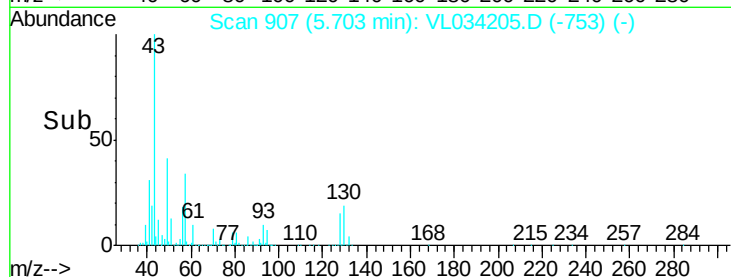
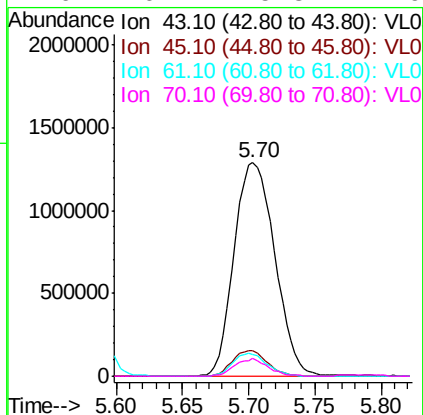
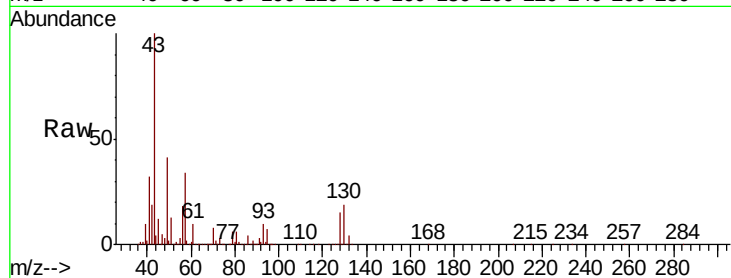
#25
Ethyl Acetate
Concen: 9.975 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.4	12.6
61	9.1	7.2	10.8
70	6.7	5.3	7.9

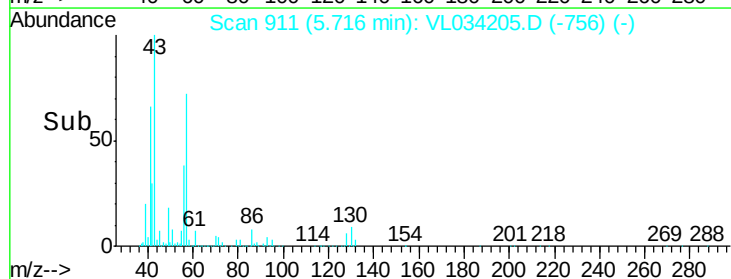
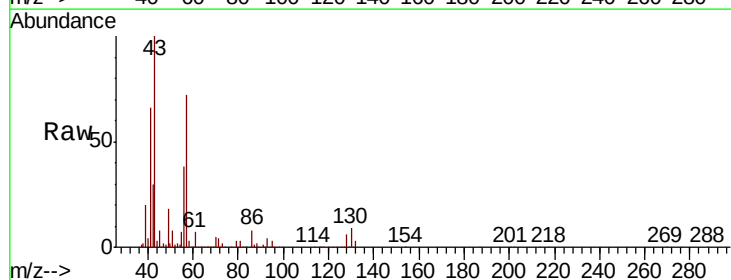
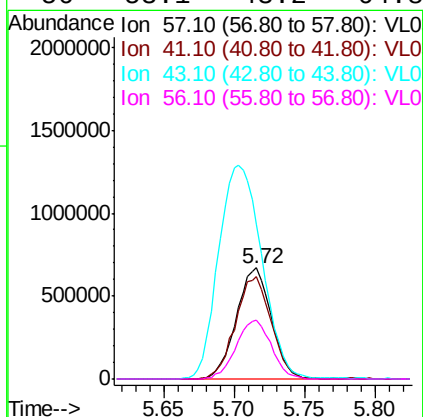
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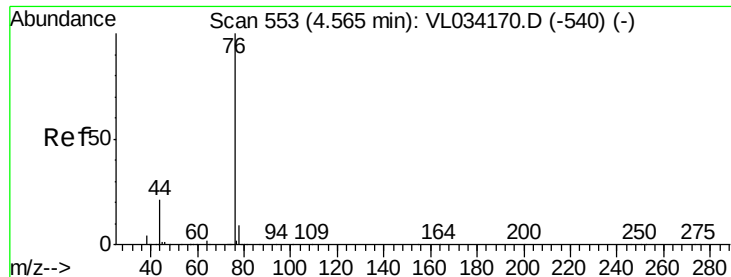
MMDadoda
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#26
Hexane
Concen: 10.134 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.00 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	94.7	78.5	117.7
43	237.6	189.5	284.3
56	53.1	43.2	64.8





#27

Carbon Disulfide

Concen: 11.712 ppbv

RT: 4.56 min Scan# 551

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1243968

Ion Ratio Lower Upper

76 100

44 21.0 17.6 26.4

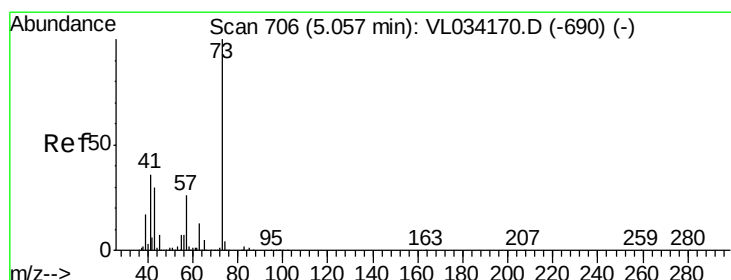
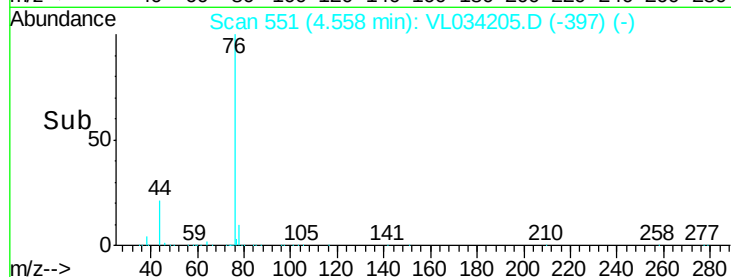
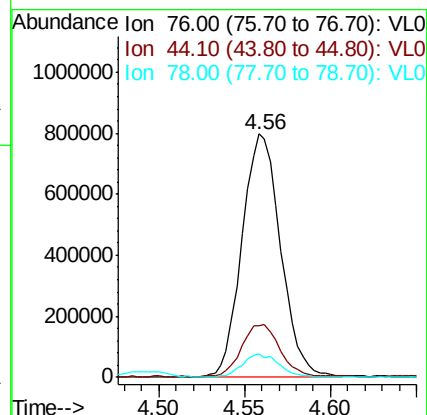
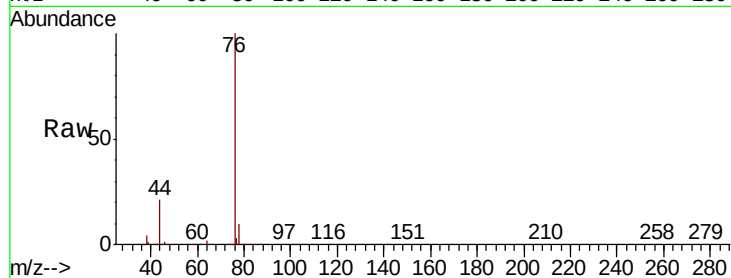
78 9.4 7.6 11.4

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MMDadoda

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#28

Methyl tert-Butyl Ether

Concen: 10.866 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL034205.D

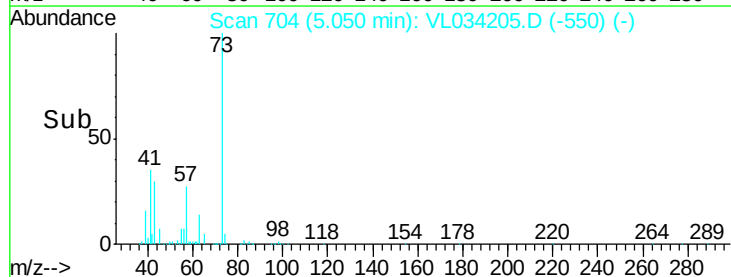
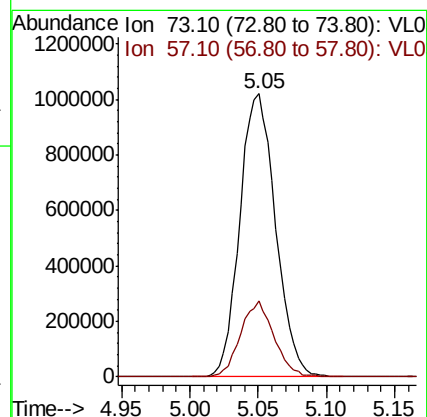
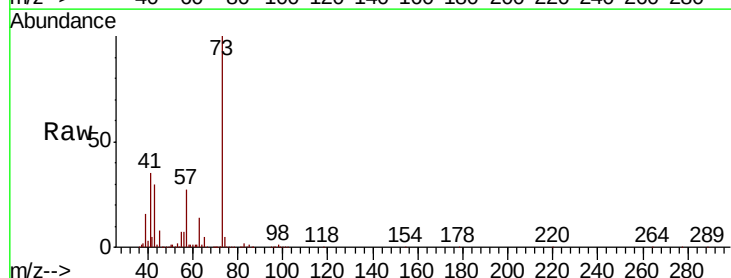
Acq: 2 Oct 2019 9:40

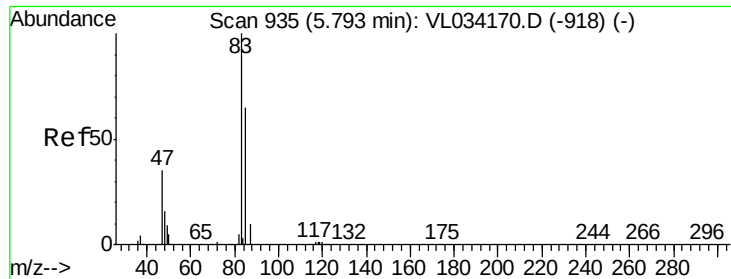
Tgt Ion: 73 Resp: 1858615

Ion Ratio Lower Upper

73 100

57 25.2 20.2 30.2





#29

Chloroform

Concen: 10.506 ppbv

RT: 5.78 min Scan# 932

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1728987

Ion Ratio Lower Upper

83 100

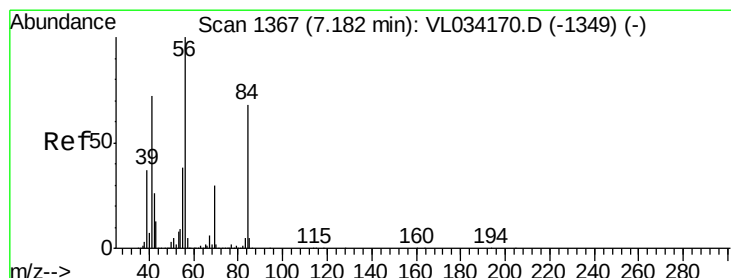
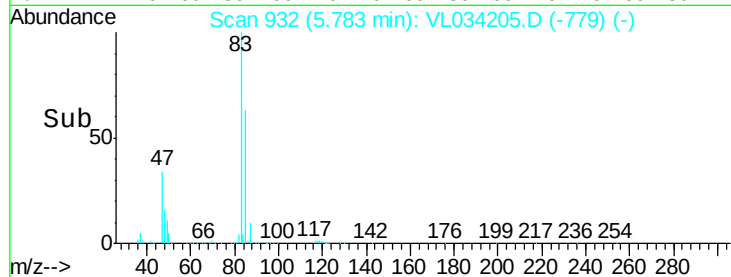
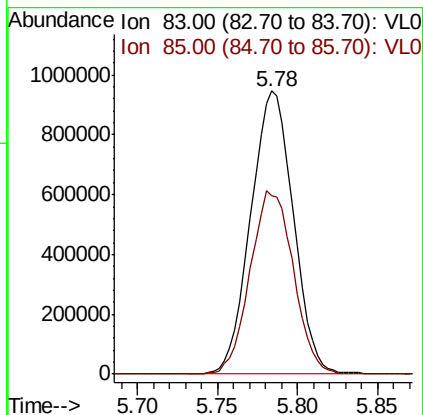
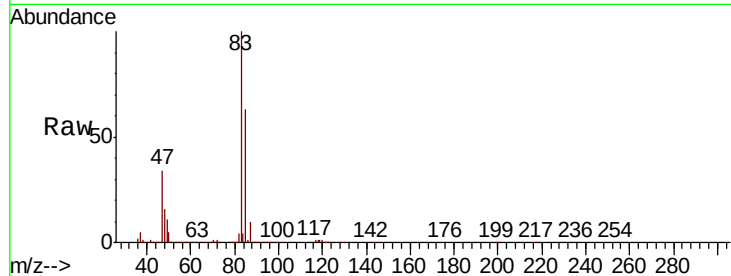
85 63.1 52.3 78.5

Manual Integrations

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#30

Cyclohexane

Concen: 10.545 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

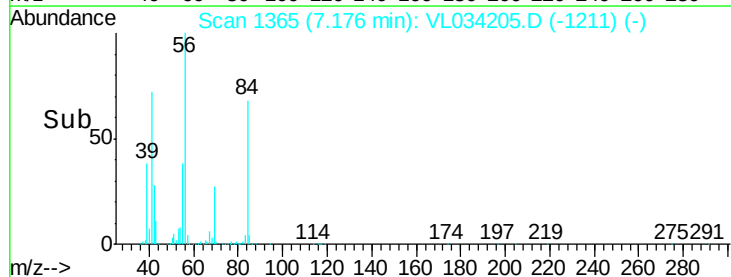
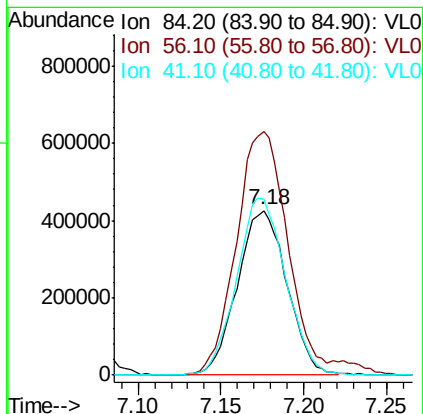
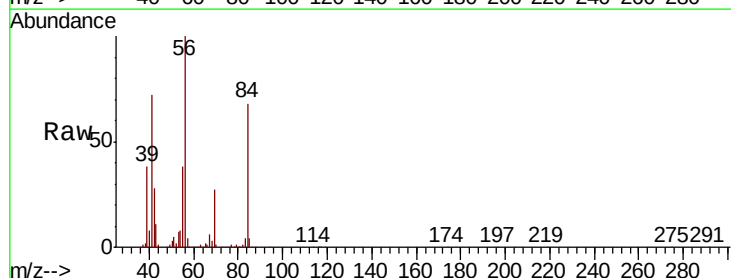
Tgt Ion: 84 Resp: 876768

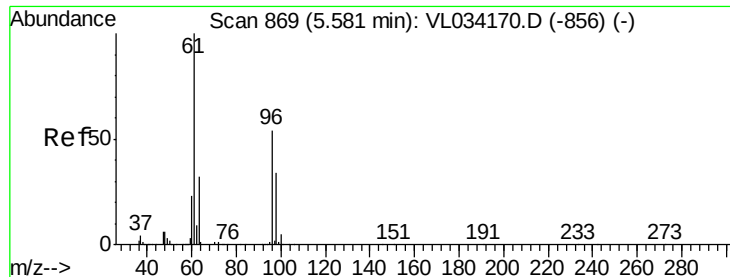
Ion Ratio Lower Upper

84 100

56 159.8 126.2 189.2

41 107.7 85.8 128.8





#31

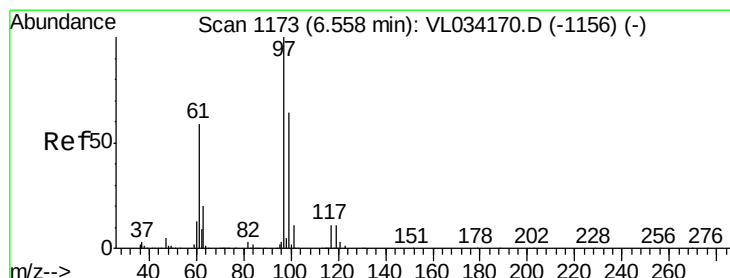
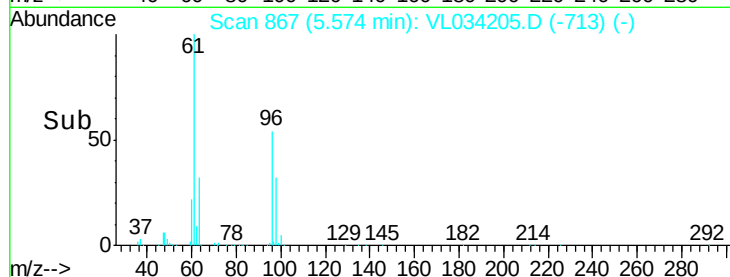
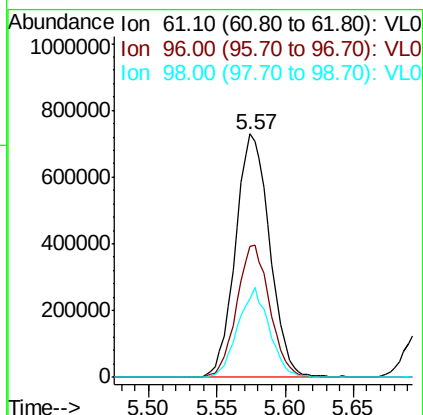
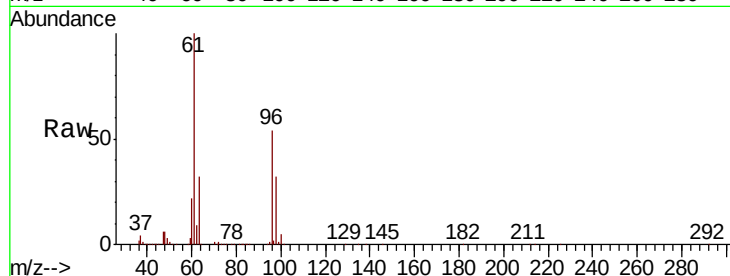
cis-1,2-Dichloroethene
Concen: 10.809 ppbv
RT: 5.57 min Scan# 867
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	53.6	43.0	64.4
98	32.3	27.2	40.8

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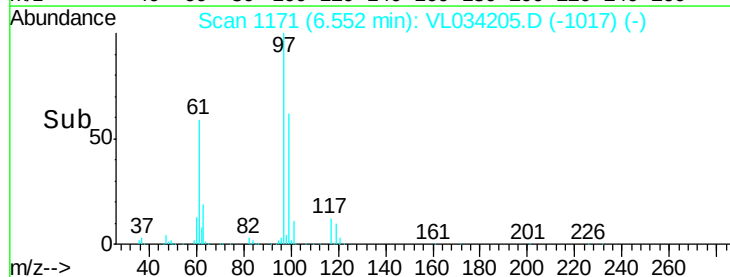
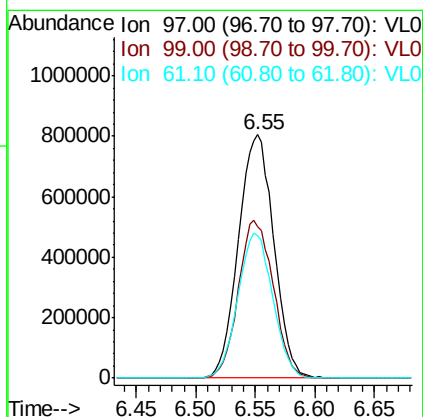
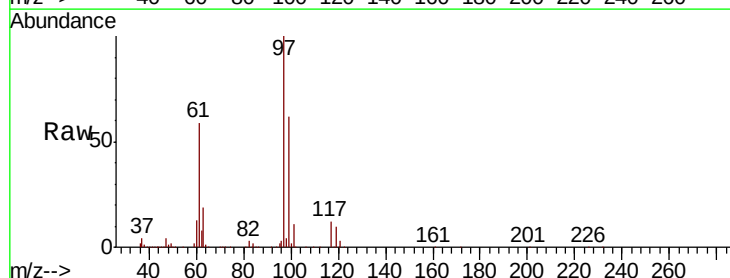
MMDadoda
10/7/2019 12:29:06 PM

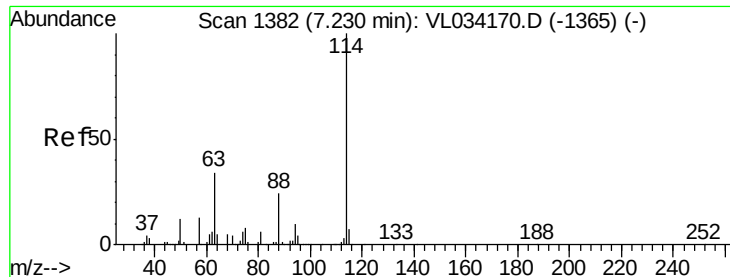


#32

1,1,1-Trichloroethane
Concen: 10.471 ppbv
RT: 6.55 min Scan# 1171
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.4	77.2
61	58.8	48.4	72.6





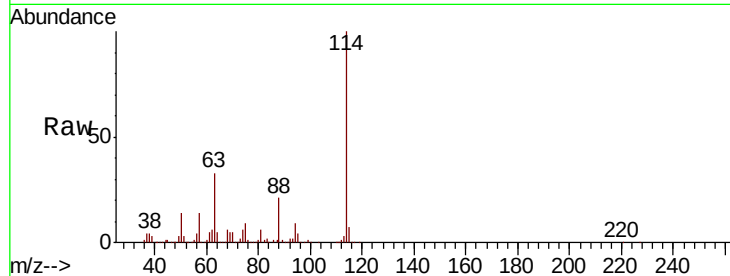
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

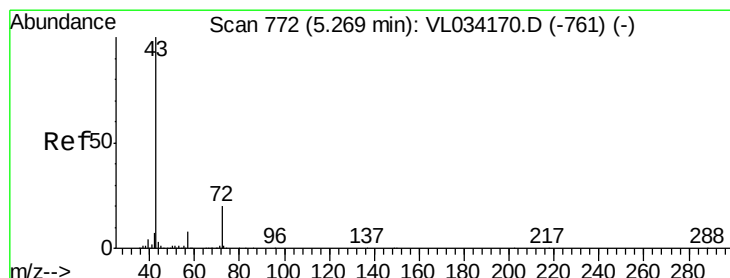
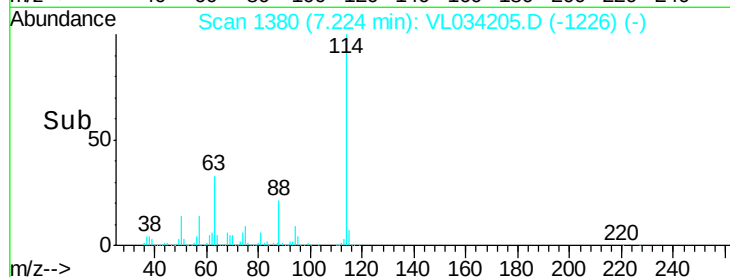
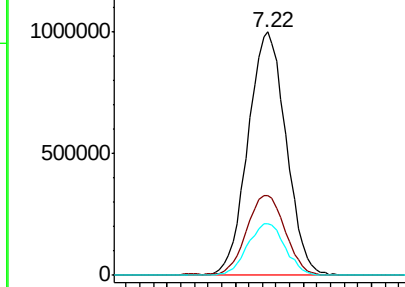
Tot Ion	Ratio	Lower	Upper
114	100		
63	33.9	27.8	41.6
88	21.0	17.1	25.7

Manual Integrations
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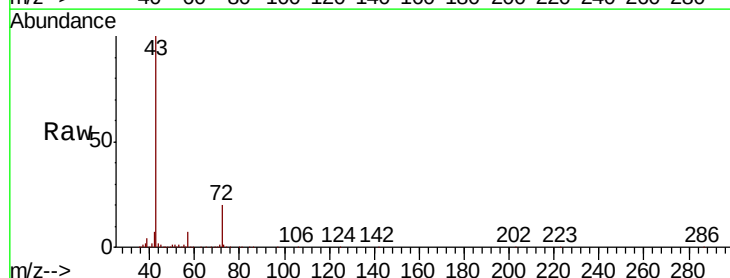


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

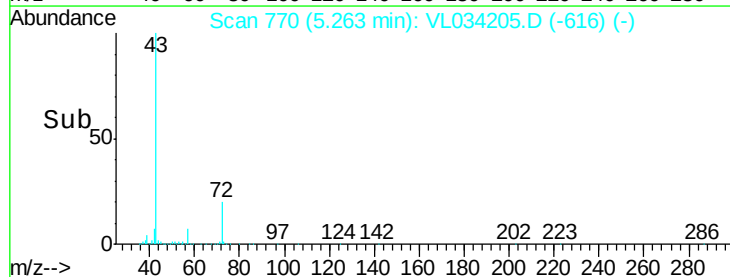
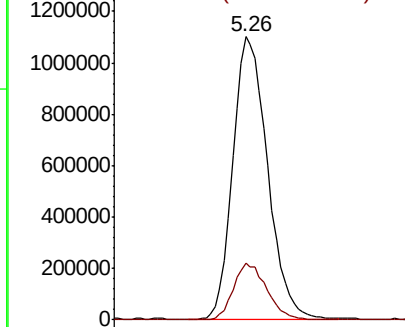


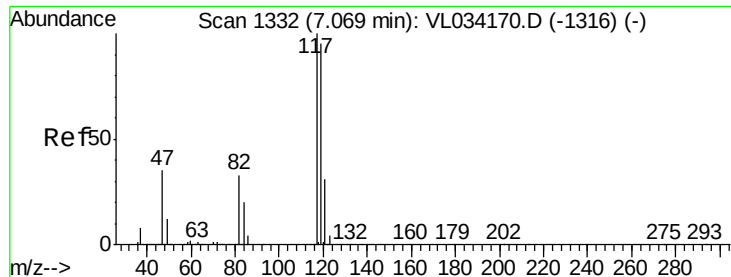
#34
 2-Butanone
 Concen: 9.842 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.3	15.0	22.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.081 ppbv

RT: 7.06 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1616902

Ion Ratio Lower Upper

117 100

119 95.7 75.8 113.6

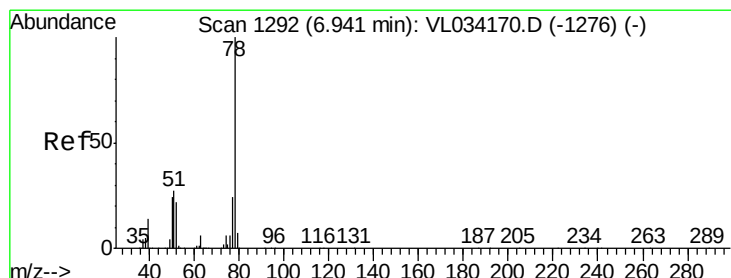
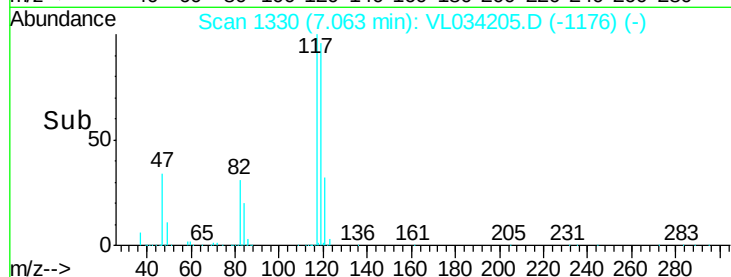
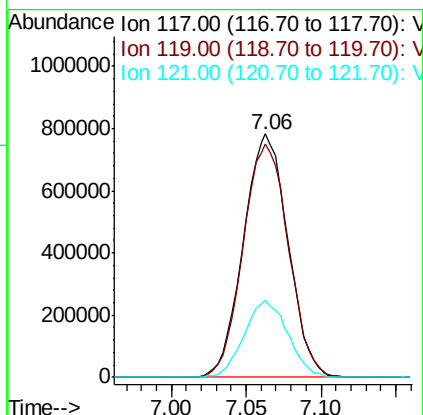
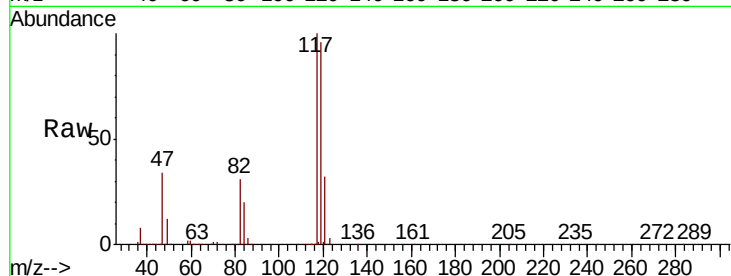
121 31.7 25.0 37.6

Manual Integrations

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#36

Benzene

Concen: 10.086 ppbv

RT: 6.93 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

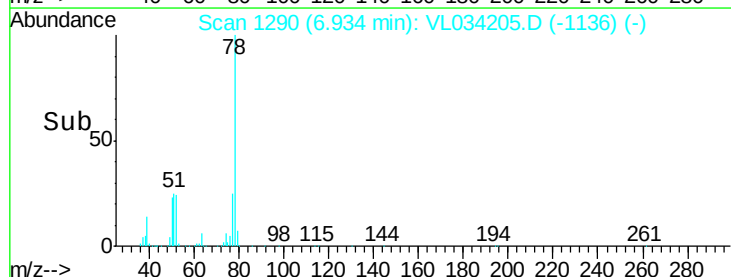
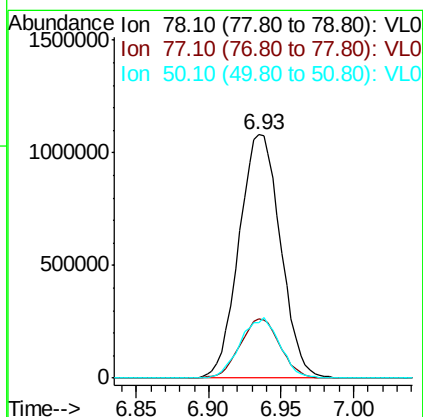
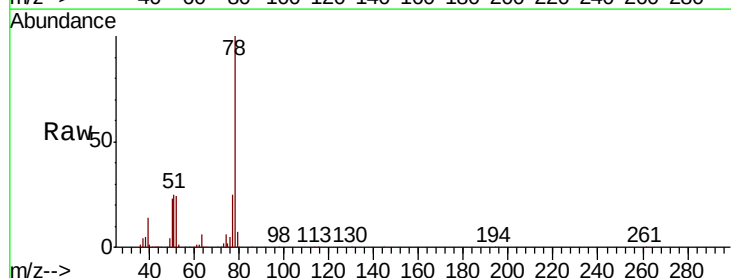
Tgt Ion: 78 Resp: 2150428

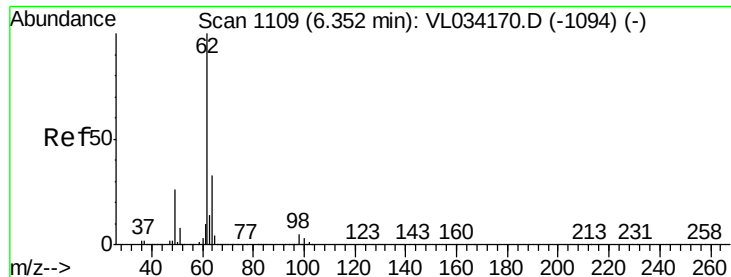
Ion Ratio Lower Upper

78 100

77 24.5 19.0 28.4

50 22.6 18.9 28.3





#37

1,2-Dichloroethane

Concen: 10.216 ppbv

RT: 6.35 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 1549359

Ion Ratio Lower Upper

62 100

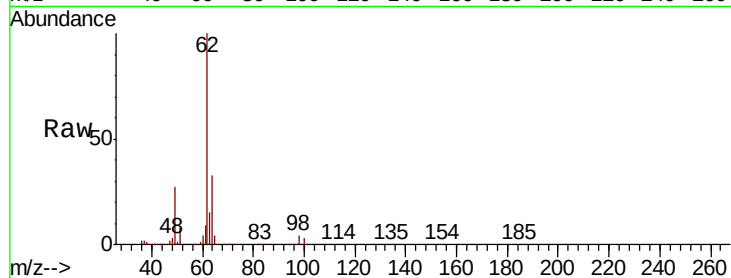
98 4.7 3.8 5.8

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.35

800000

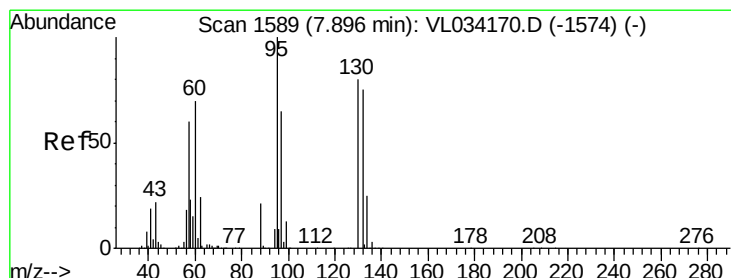
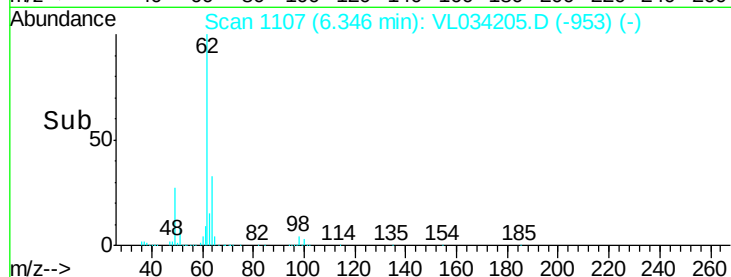
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 9.611 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Tgt Ion: 130 Resp: 732191

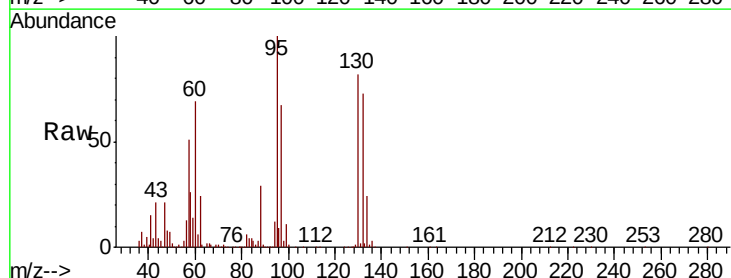
Ion Ratio Lower Upper

130 100

95 122.4 99.8 149.6

132 89.9 75.2 112.8

97 82.2 65.0 97.4



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

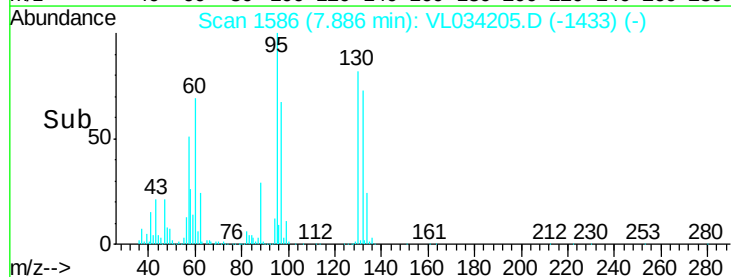
600000

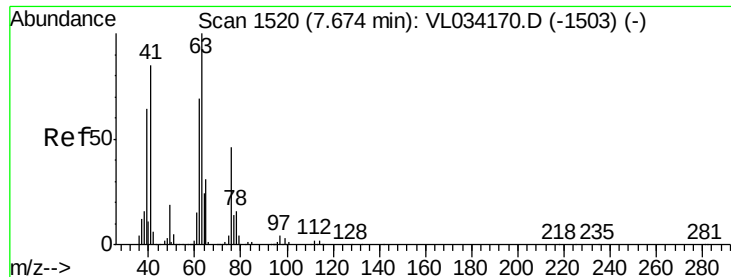
400000

200000

0

Time-->





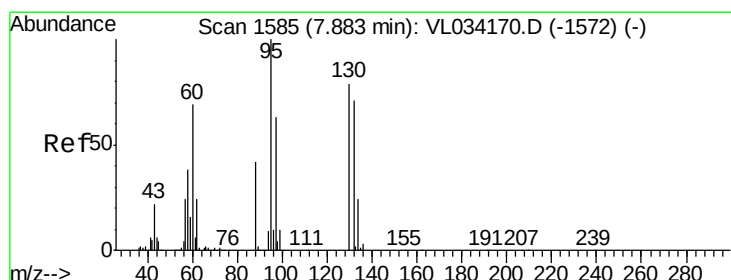
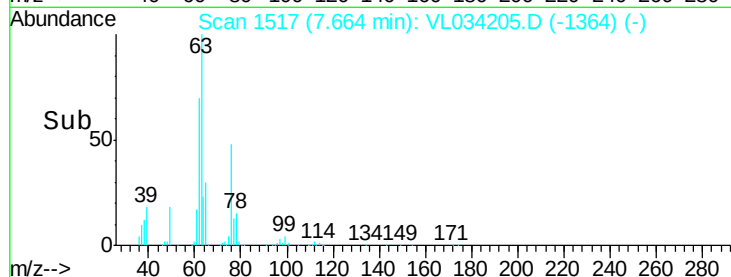
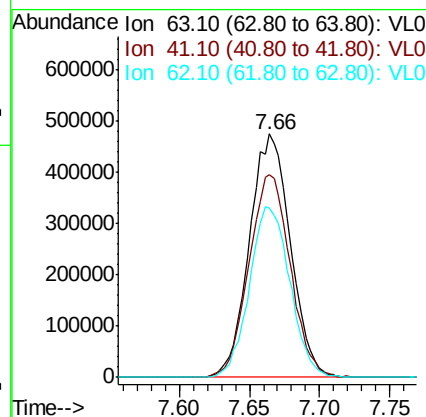
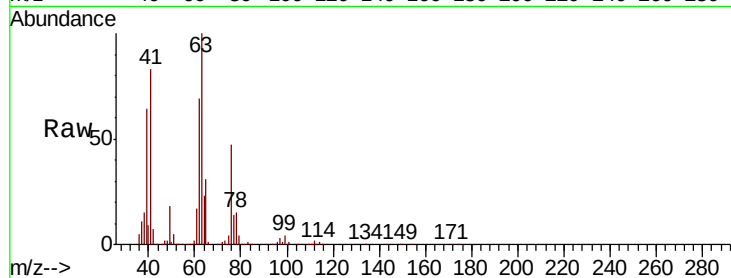
#39
 1,2-Dichloropropane
 Concen: 10.086 ppbv
 RT: 7.66 min Scan# 1517
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	83.0	68.4	102.6
62	69.3	55.4	83.2

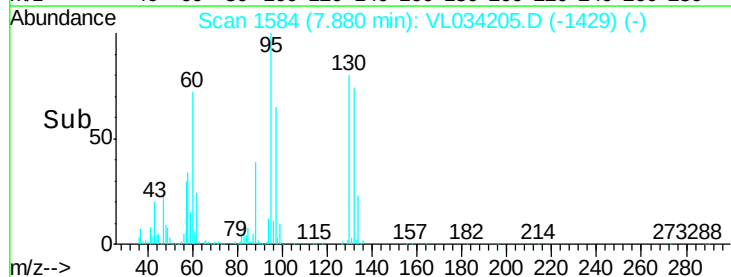
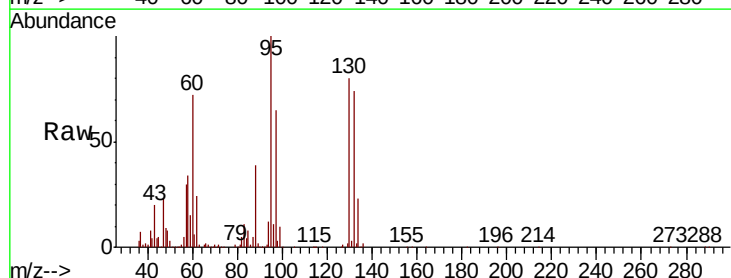
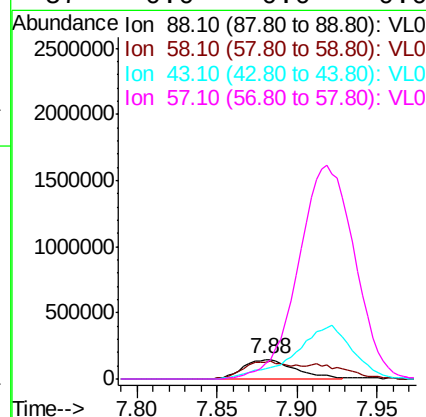
Manual Integrations
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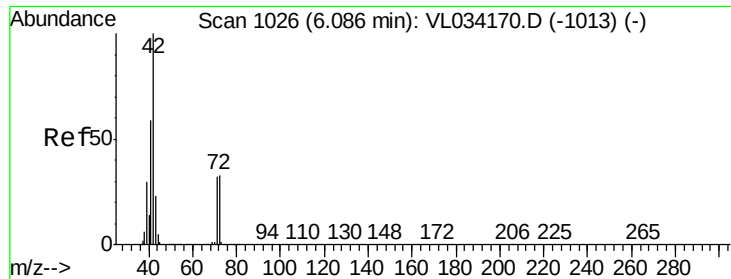
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#40
 1,4-Dioxane
 Concen: 10.581 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Lower	Upper
88	100		
58	149.5	131.8	197.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





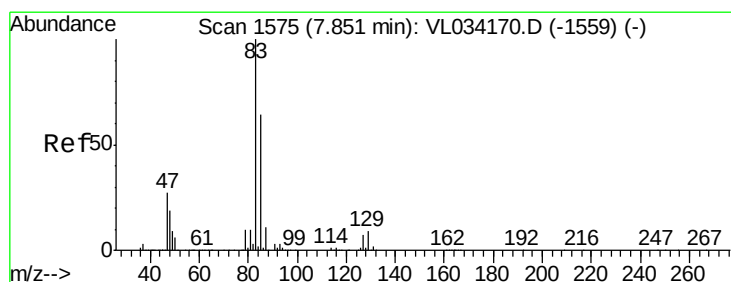
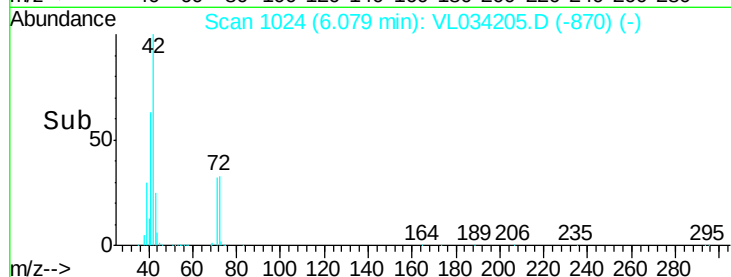
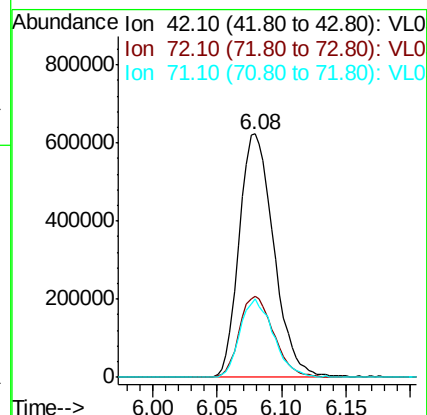
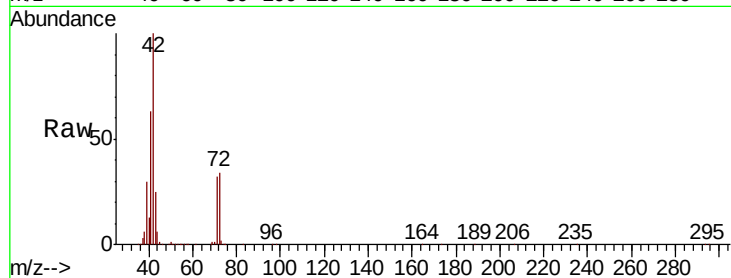
#41
Tetrahydrofuran
Concen: 10.488 ppbv
RT: 6.08 min Scan# 1024
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.3	26.6	40.0
71	31.4	25.1	37.7

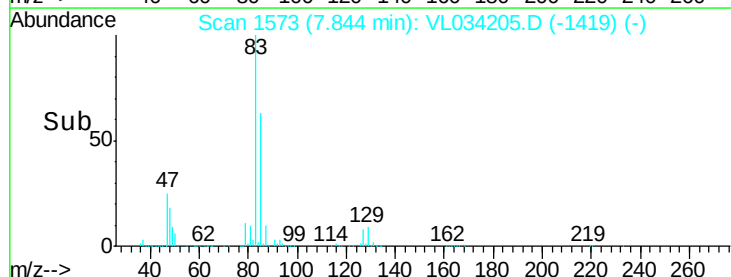
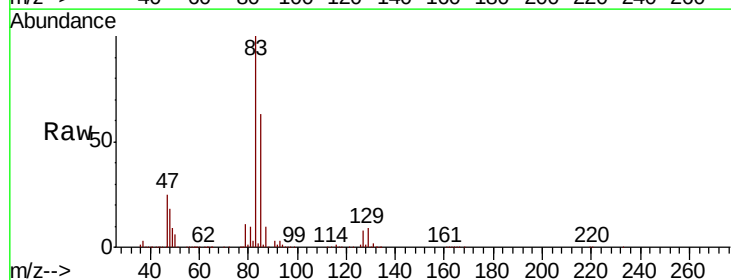
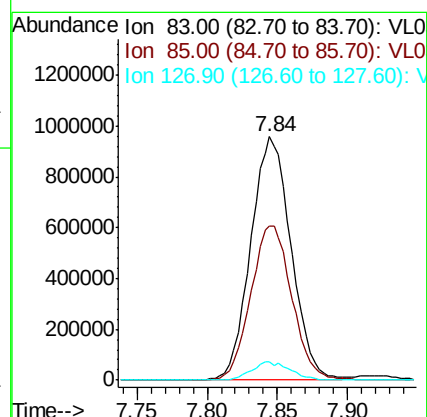
Manual Integrations
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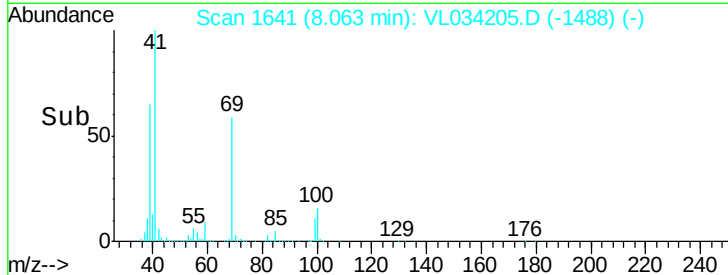
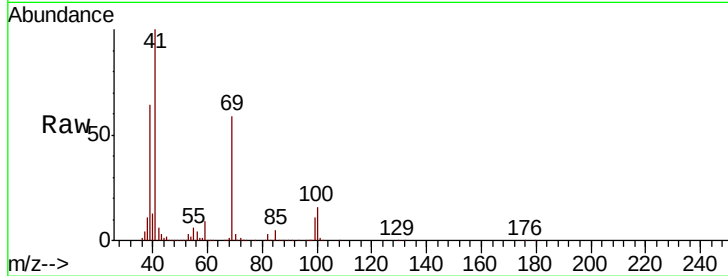
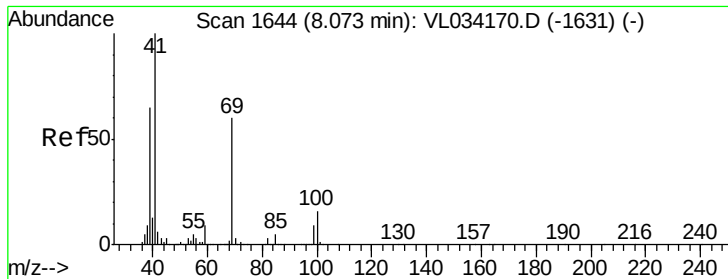
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#42
Bromodichloromethane
Concen: 10.523 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.4	77.0
127	7.6	5.5	8.3





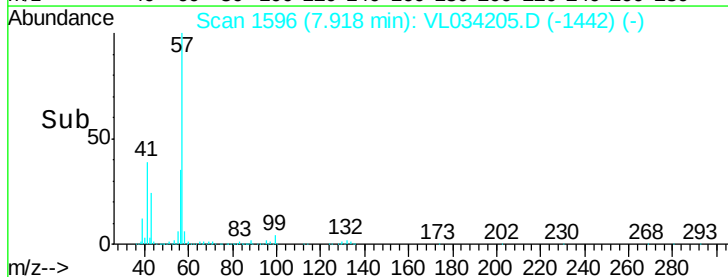
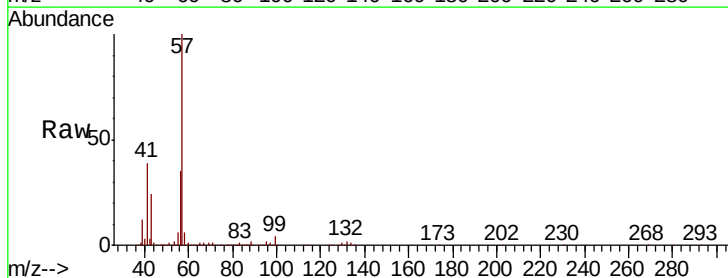
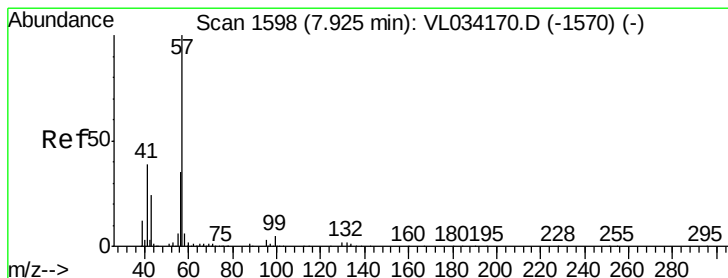
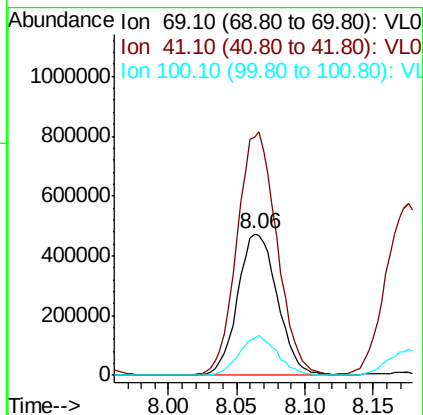
#43
Methyl Methacrylate
Concen: 10.884 ppbv
RT: 8.06 min Scan# 1641
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tot Ion	Ratio	Lower	Upper
69	100		
41	172.4	140.4	210.6
100	26.9	21.9	32.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

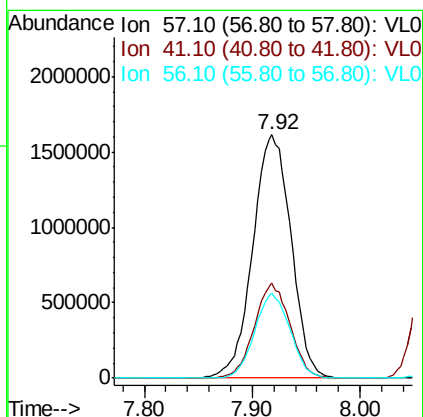
Manual Integrations
APPROVED

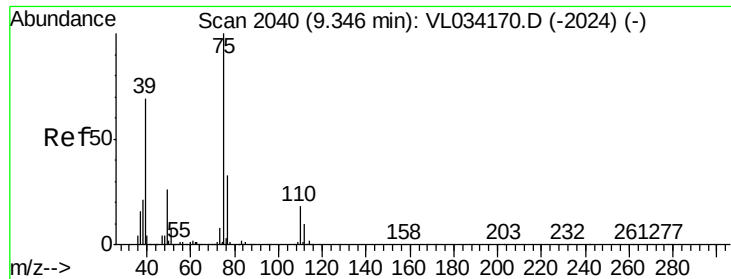
MMDadoda
10/7/2019 12:29:06 PM



#44
2,2,4-Trimethylpentane
Concen: 9.693 ppbv
RT: 7.92 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.2	29.8	44.6
56	32.3	25.9	38.9





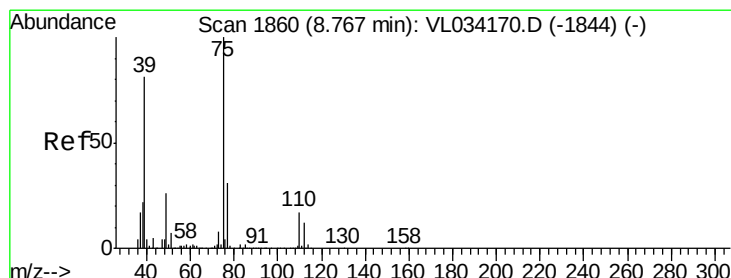
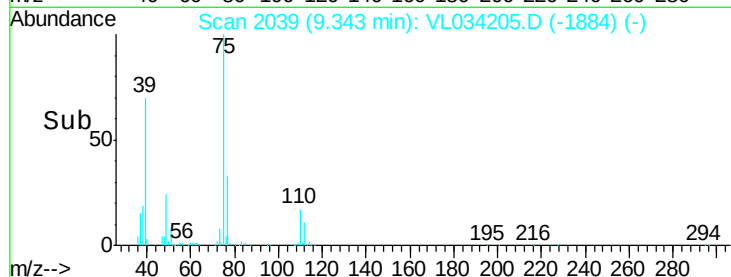
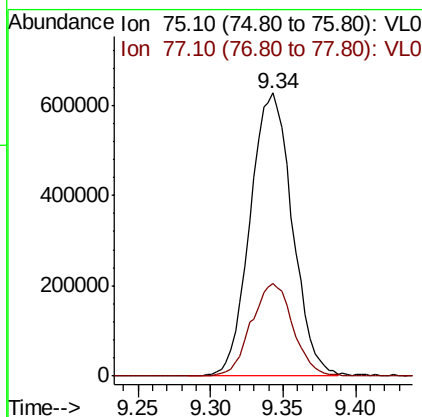
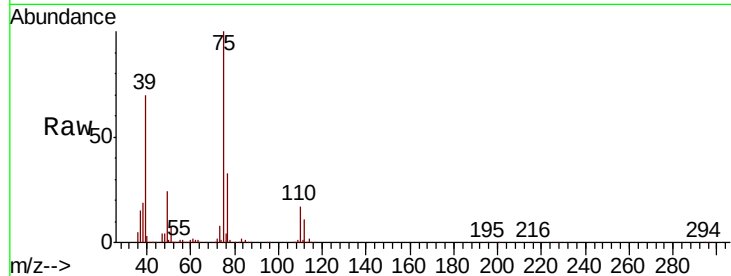
#45
t-1,3-Dichloropropene
Concen: 12.188 ppbv
RT: 9.34 min Scan# 2039
Delta R.T. -0.00 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1269298
Ion Ratio Lower Upper
75 100
77 32.9 26.2 39.2

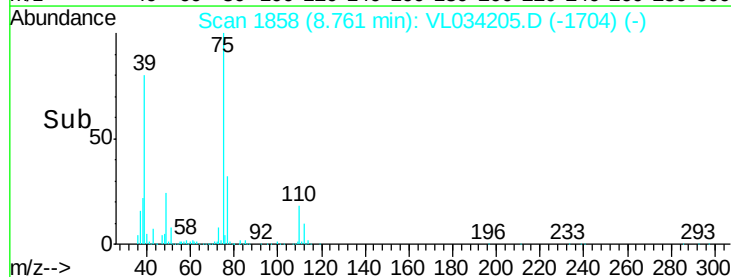
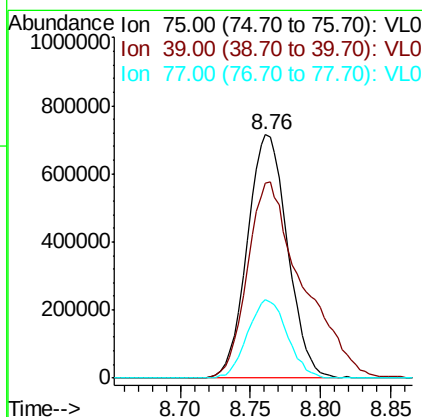
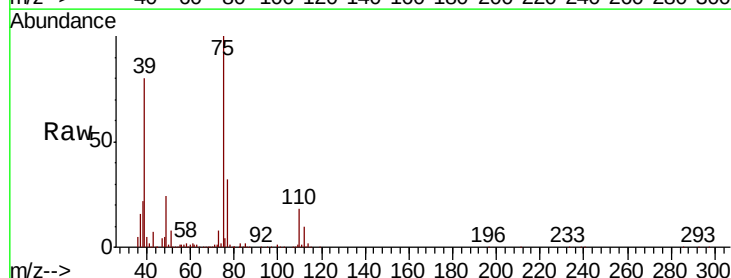
Manual Integrations
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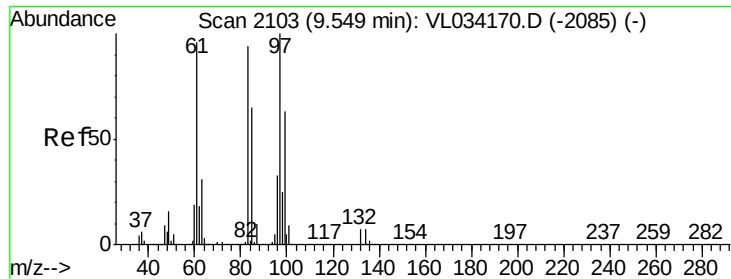
MMDadoda
10/7/2019 12:29:06 PM



#46
cis-1,3-Dichloropropene
Concen: 11.397 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tgt Ion: 75 Resp: 1427834
Ion Ratio Lower Upper
75 100
39 80.1 65.0 97.4
77 32.2 24.5 36.7





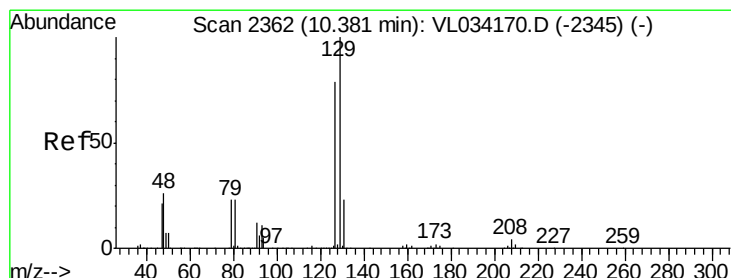
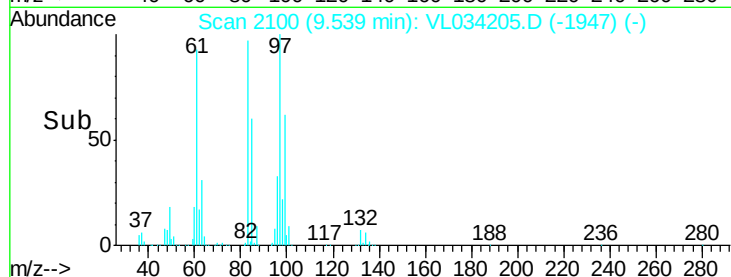
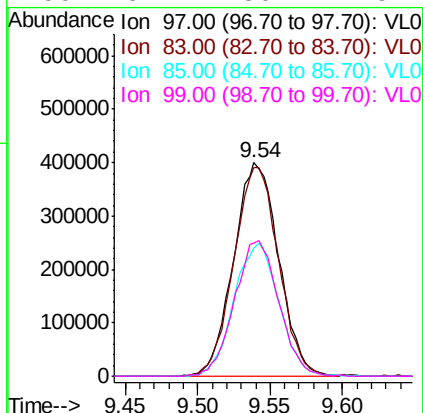
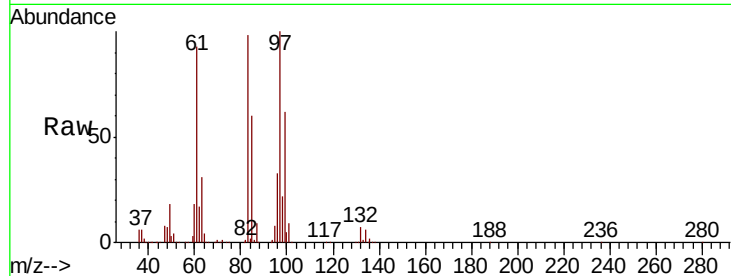
#47
 1,1,2-Trichloroethane
 Concen: 9.990 ppbv
 RT: 9.54 min Scan# 2100
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	97.6	75.3	112.9	
85	59.7	52.1	78.1	
99	62.1	50.2	75.2	

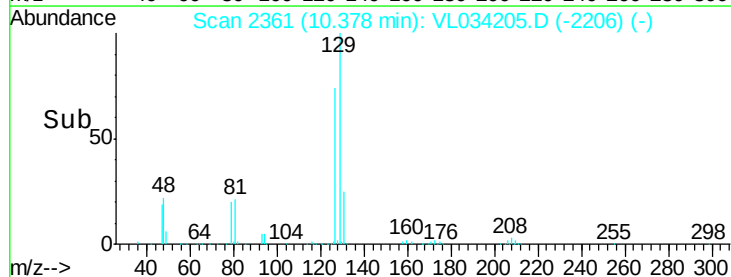
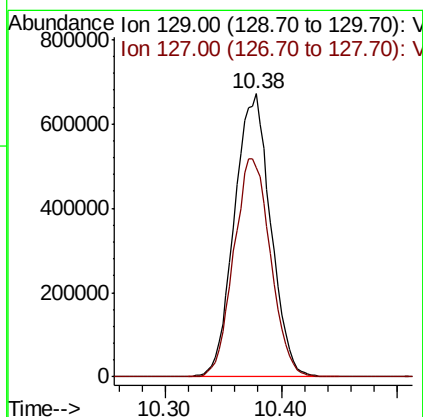
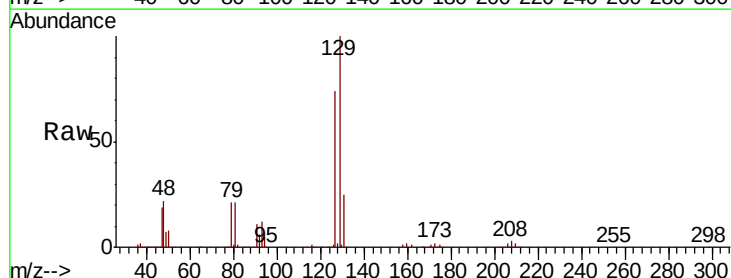
Manual Integrations
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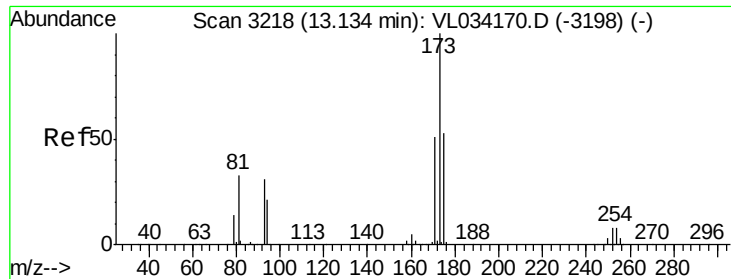
MMDadoda
 10/7/2019 12:29:06 PM



#48
 Dibromochloromethane
 Concen: 10.712 ppbv
 RT: 10.38 min Scan# 2361
 Delta R.T. -0.00 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.4	39.2	117.6	





#49

Bromoform

Concen: 11.089 ppbv m

RT: 13.13 min Scan# 3216

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1223529

Ion Ratio Lower Upper

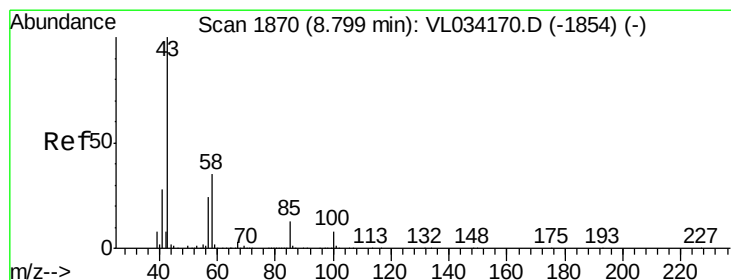
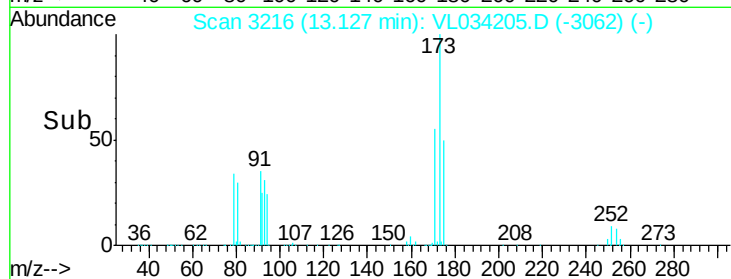
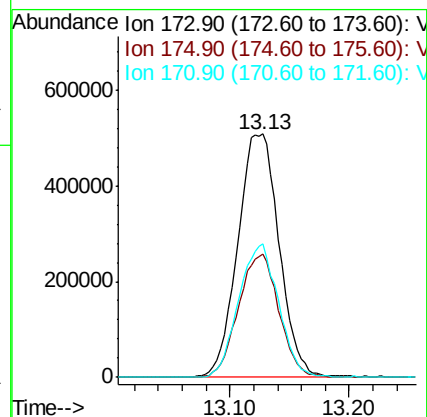
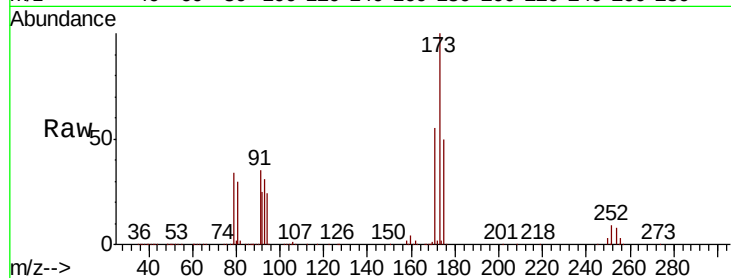
173 100

175 0.0 40.3 60.5#

171 0.0 42.0 63.0#

Manual Integrations
APPROVED

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10/7/2019 12:29:06 PM



#50

4-Methyl-2-Pentanone

Concen: 9.841 ppbv

RT: 8.79 min Scan# 1868

Delta R.T. -0.01 min

Lab File: VL034205.D

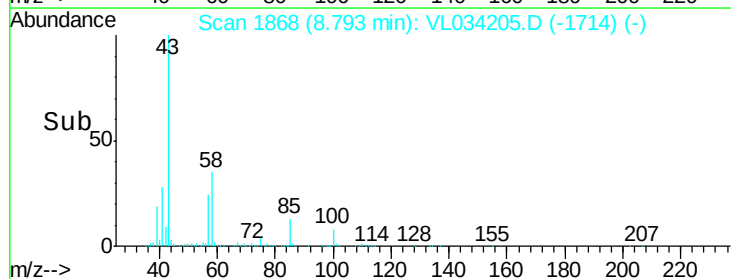
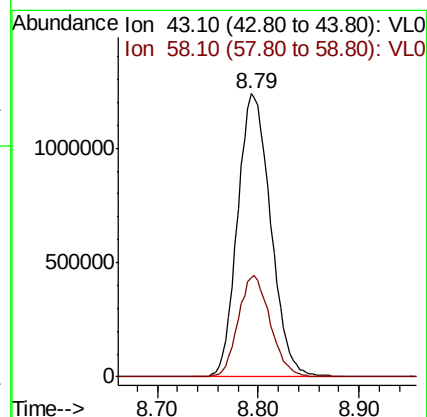
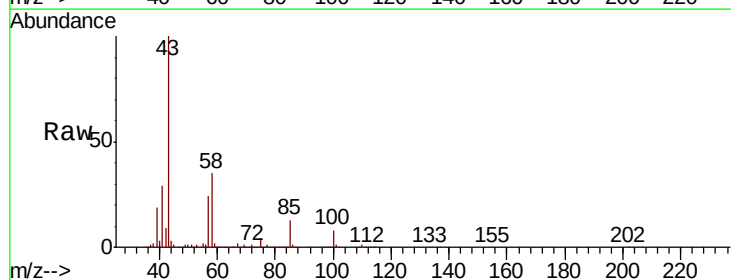
Acq: 2 Oct 2019 9:40

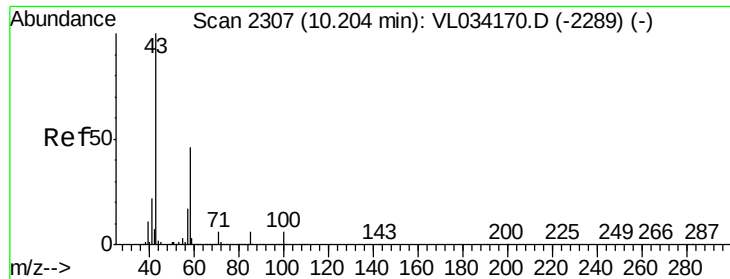
Tgt Ion: 43 Resp: 2823204

Ion Ratio Lower Upper

43 100

58 34.6 27.6 41.4





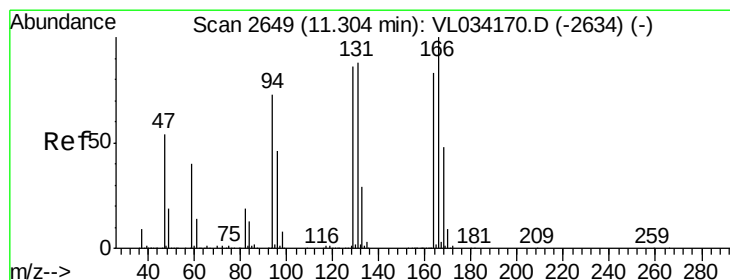
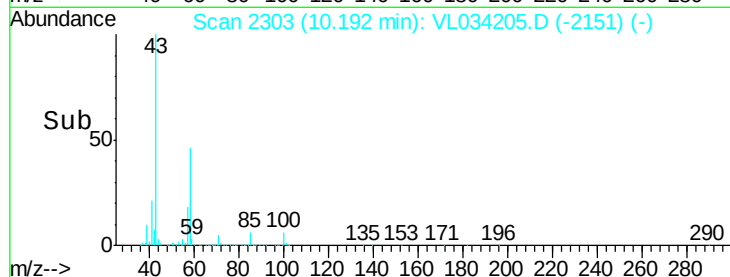
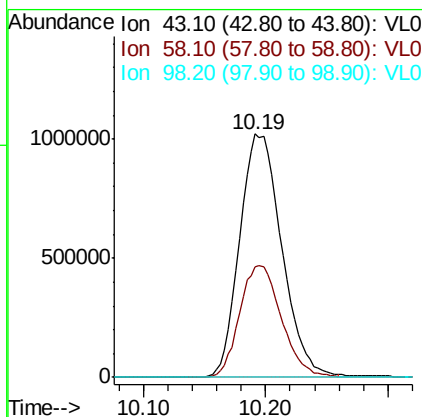
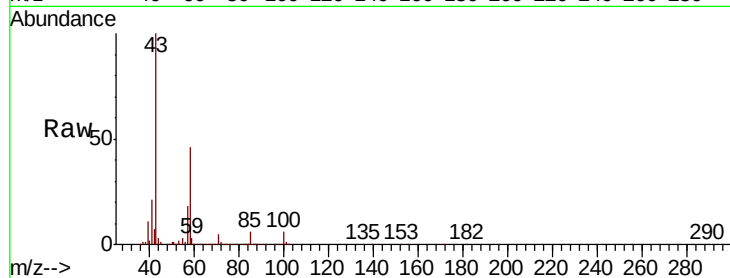
#51
2-Hexanone
Concen: 10.121 ppbv
RT: 10.19 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 2436839
Ion Ratio Lower Upper
43 100
58 45.7 36.2 54.4
98 0.1 0.2 0.2#

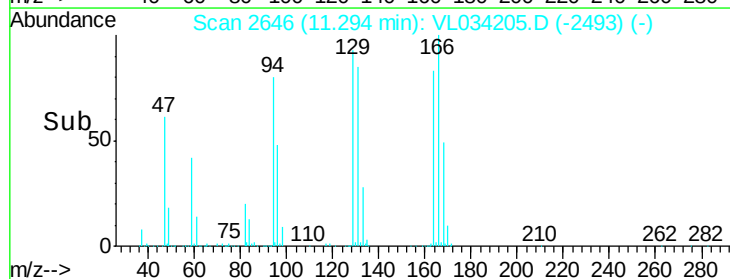
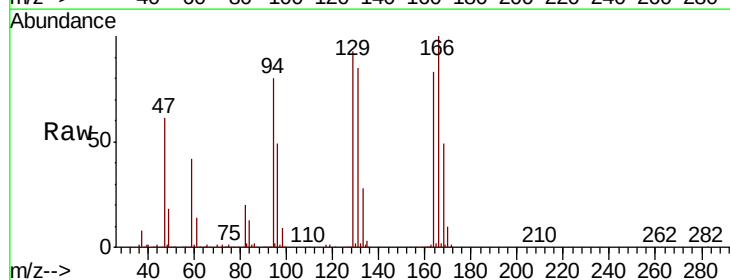
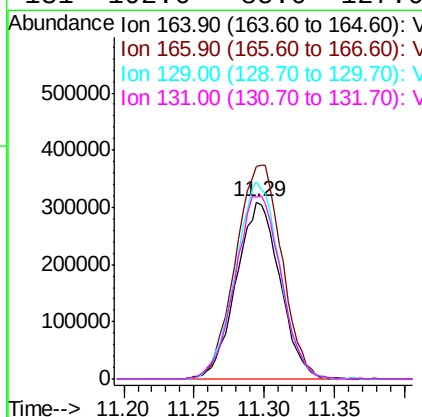
Manual Integrations
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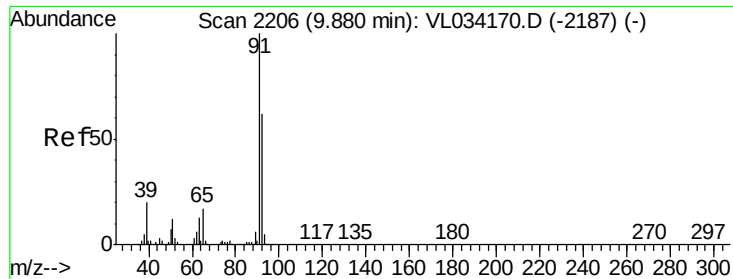
MMDadoda
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#52
Tetrachloroethene
Concen: 9.445 ppbv
RT: 11.29 min Scan# 2646
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tgt Ion: 164 Resp: 665337
Ion Ratio Lower Upper
164 100
166 119.9 96.7 145.1
129 111.1 82.8 124.2
131 102.6 85.0 127.6





#53

Toluene

Concen: 10.279 ppbv

RT: 9.87 min Scan# 2203

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2395295

Ion Ratio Lower Upper

91 100

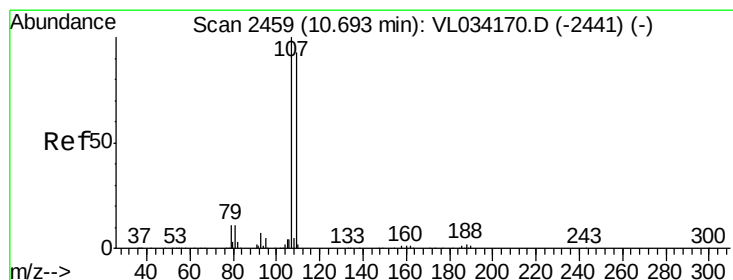
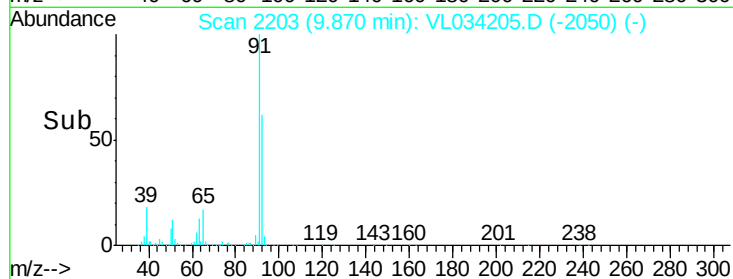
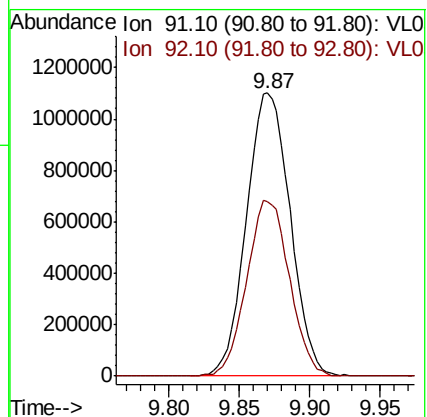
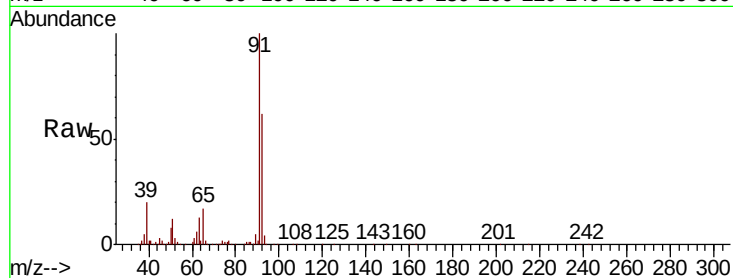
92 60.8 49.0 73.6

Manual Integrations

APPROVED

MMDadoda

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#54

1,2-Dibromoethane

Concen: 10.246 ppbv

RT: 10.68 min Scan# 2456

Delta R.T. -0.01 min

Lab File: VL034205.D

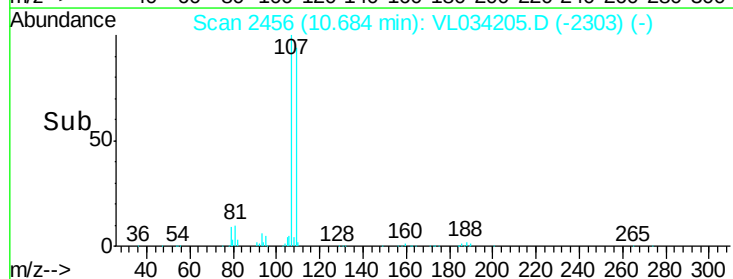
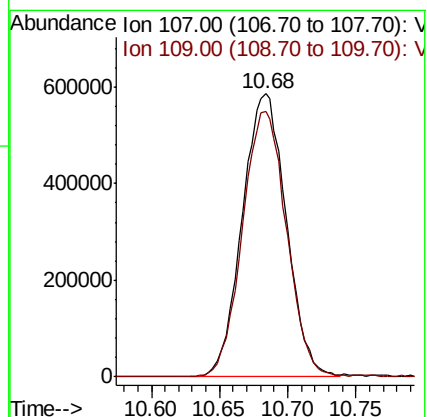
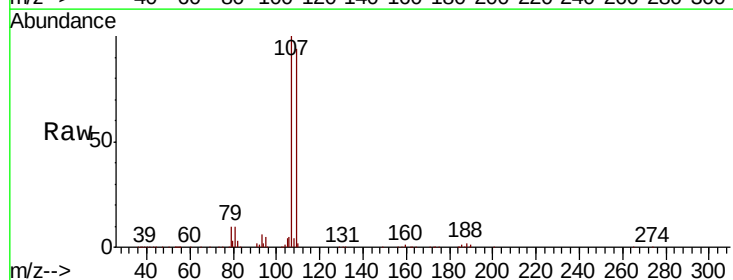
Acq: 2 Oct 2019 9:40

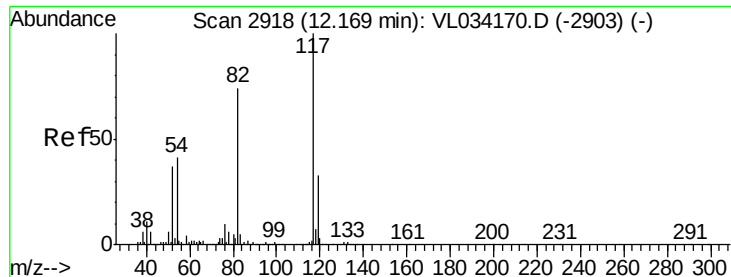
Tgt Ion: 107 Resp: 1310792

Ion Ratio Lower Upper

107 100

109 93.8 74.5 111.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2109075

Ion Ratio Lower Upper

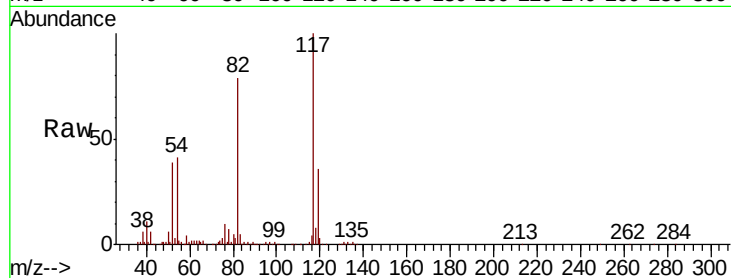
117 100

82 74.7 58.2 87.4

119 29.1 23.7 35.5

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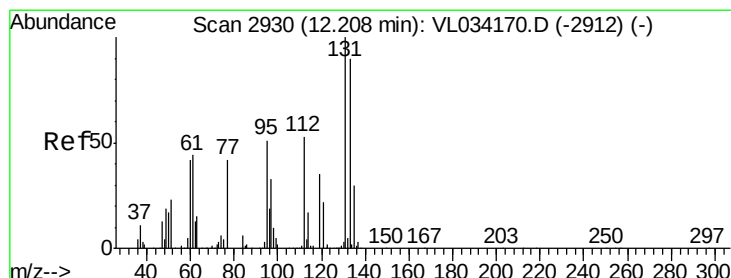
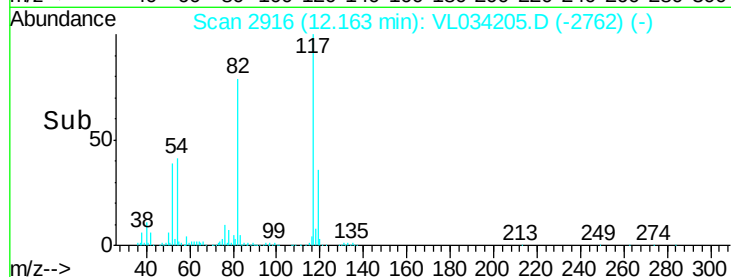
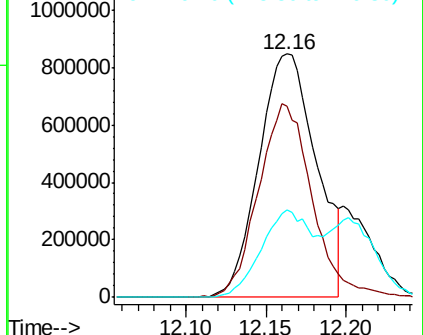
MMDadoda
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.936 ppbv

RT: 12.20 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

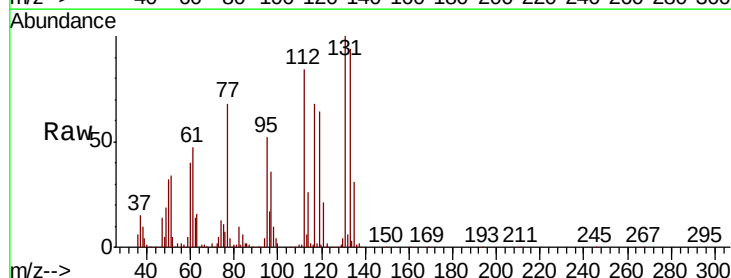
Tgt Ion:131 Resp: 934551

Ion Ratio Lower Upper

131 100

133 95.2 75.1 112.7

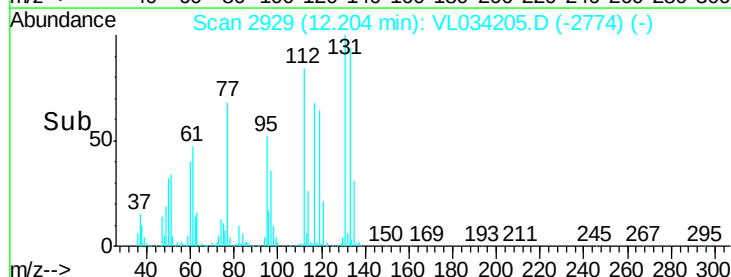
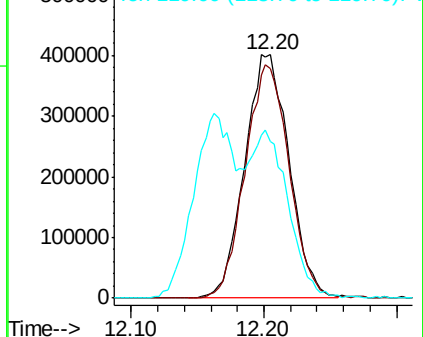
119 58.7 47.4 71.0

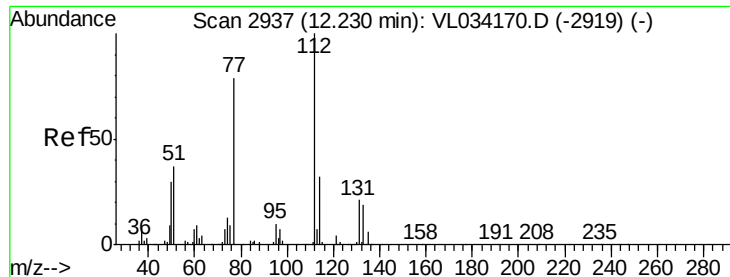


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





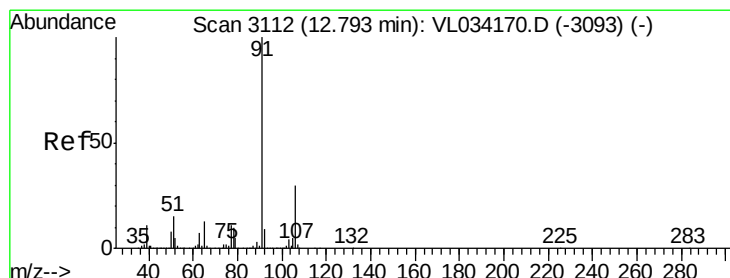
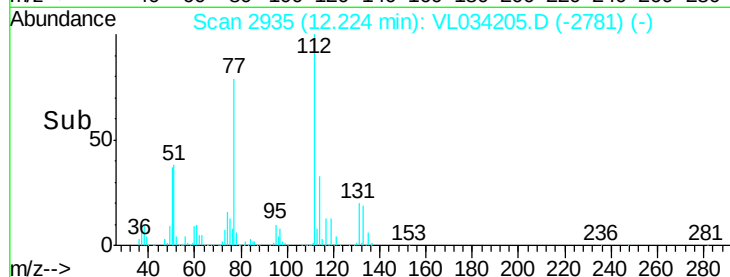
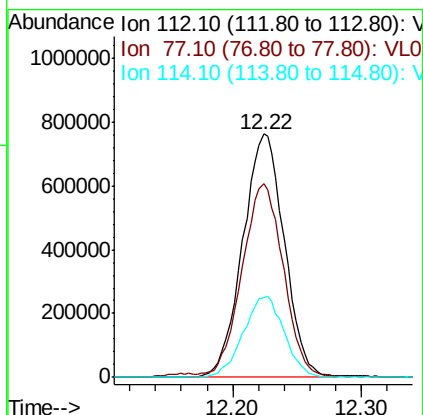
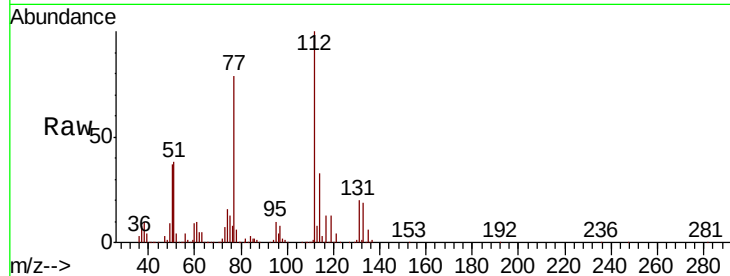
#57
Chlorobenzene
Concen: 9.326 ppbv
RT: 12.22 min Scan# 2935
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	78.9	64.3	96.5
114	32.7	28.9	35.3

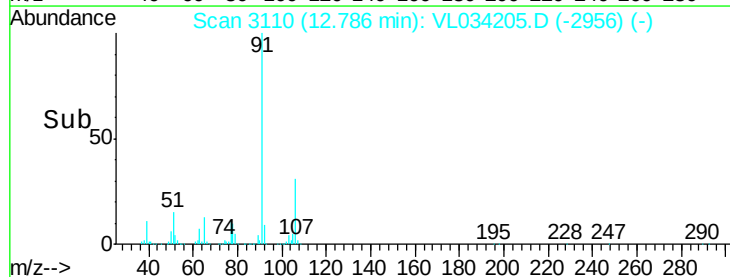
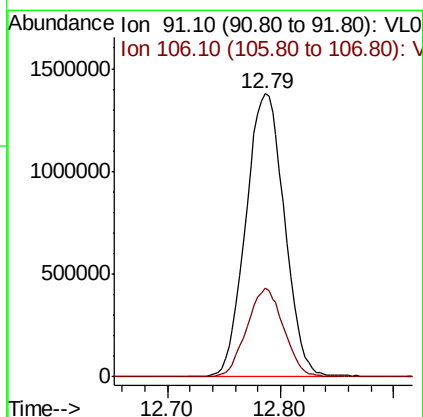
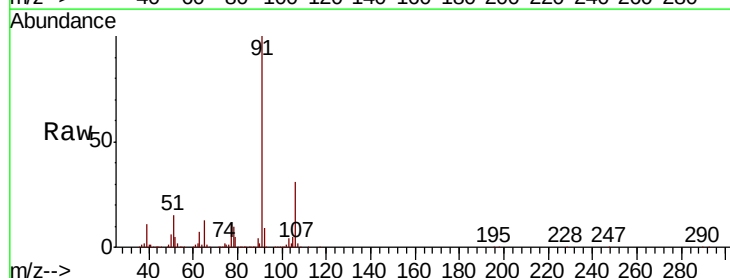
Manual Integrations
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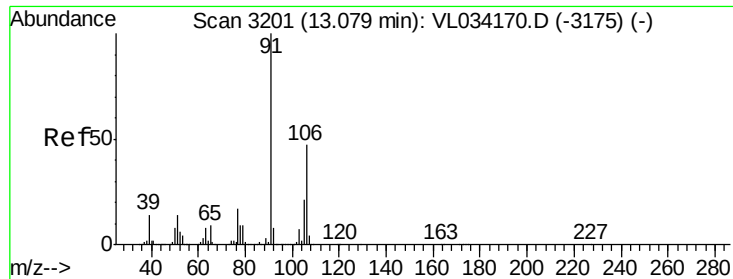
MMDadoda
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#58
Ethyl Benzene
Concen: 9.606 ppbv
RT: 12.79 min Scan# 3110
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.2	36.4





#59

m/p-Xylene

Concen: 18.845 ppbv m

RT: 13.07 min Scan# 3198

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 5311905

Ion Ratio Lower Upper

91 100

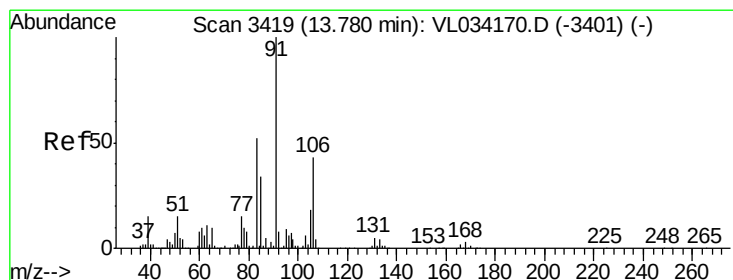
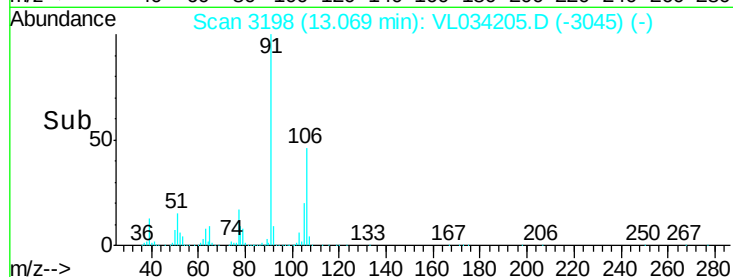
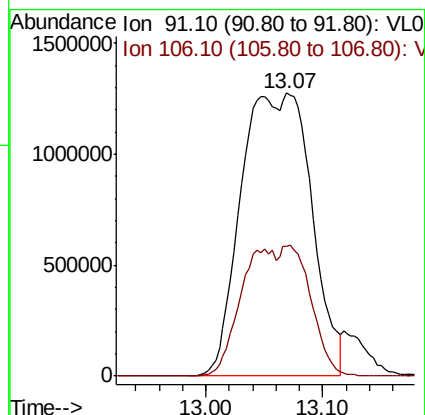
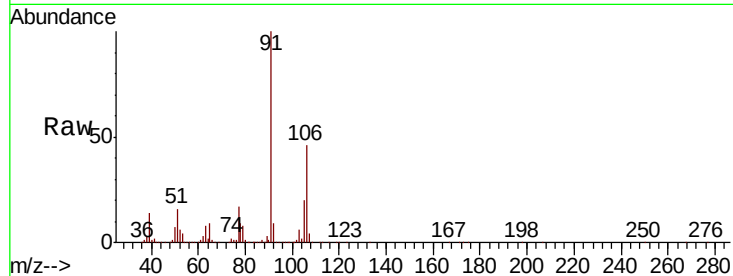
106 44.3 35.5 53.3

Manual Integrations

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#60

o-Xylene

Concen: 9.318 ppbv

RT: 13.77 min Scan# 3417

Delta R.T. -0.01 min

Lab File: VL034205.D

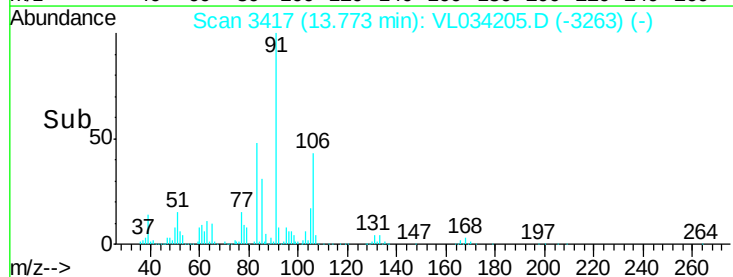
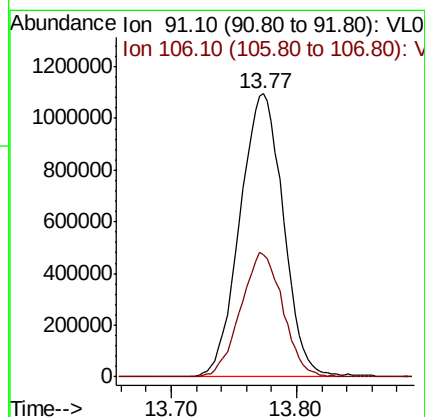
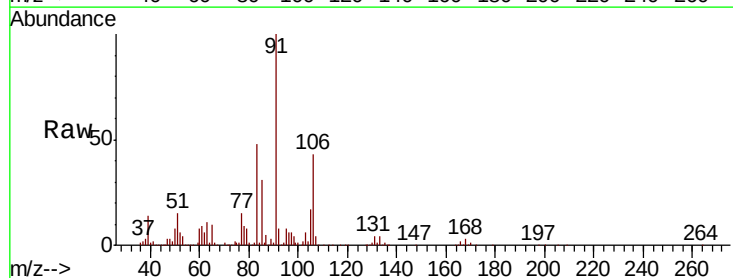
Acq: 2 Oct 2019 9:40

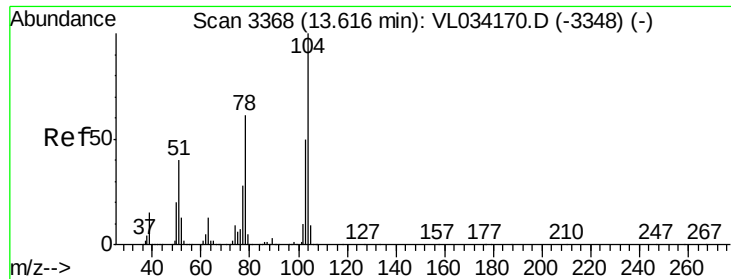
Tgt Ion: 91 Resp: 2626344

Ion Ratio Lower Upper

91 100

106 43.0 21.2 63.6





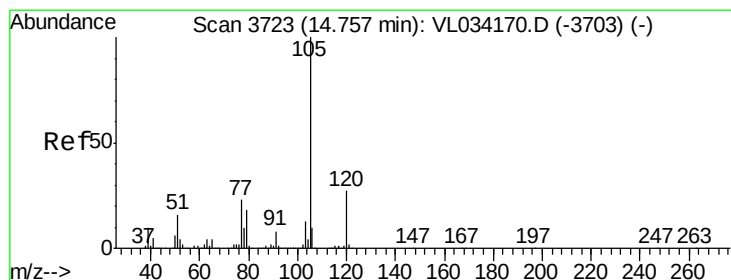
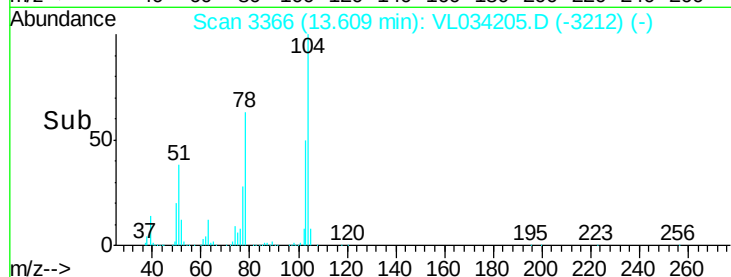
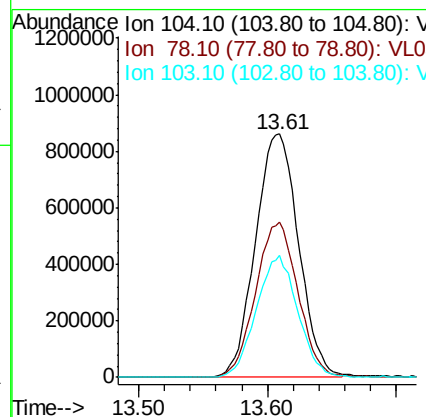
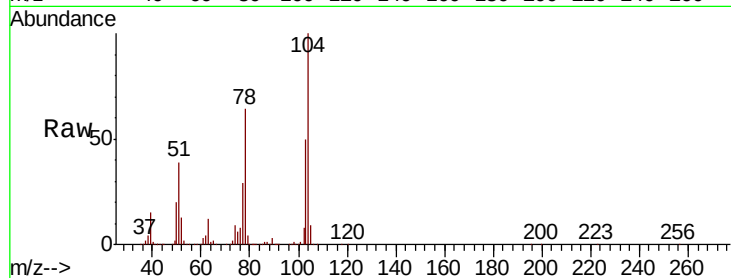
#61
Stvrene
Concen: 9.930 ppbv
RT: 13.61 min Scan# 3366
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	62.6	49.7	74.5
103	48.3	38.4	57.6

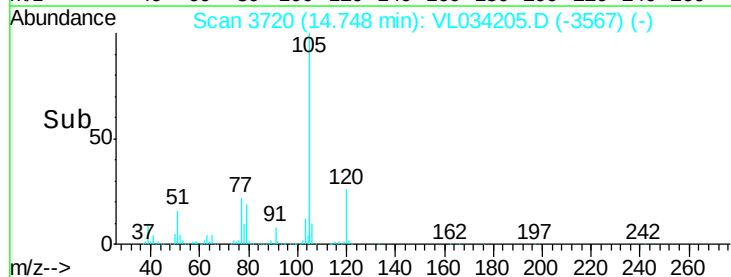
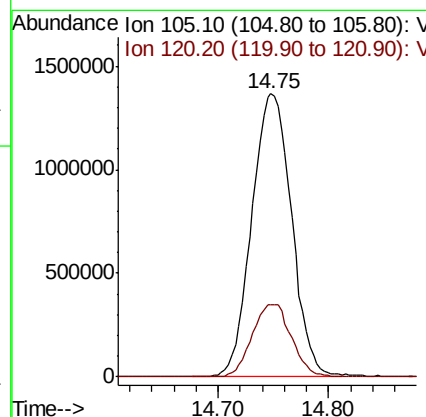
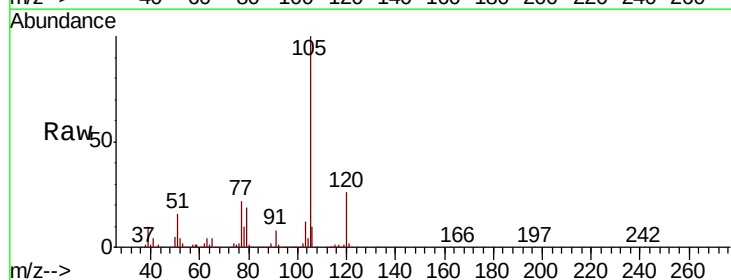
Manual Integrations
APPROVED

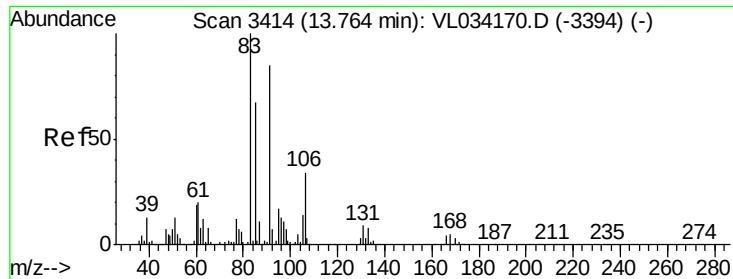
MMDadoda
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#62
Isopropylbenzene
Concen: 9.383 ppbv
RT: 14.75 min Scan# 3720
Delta R.T. -0.01 min
Lab File: VL034205.D
Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.7	31.1





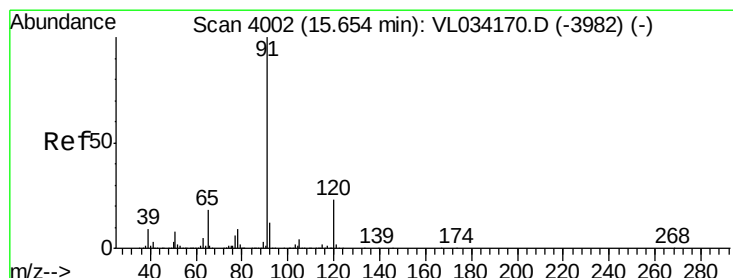
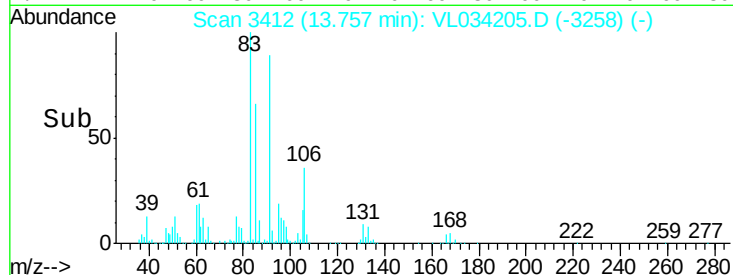
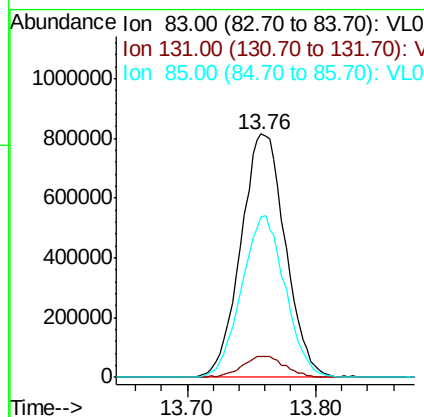
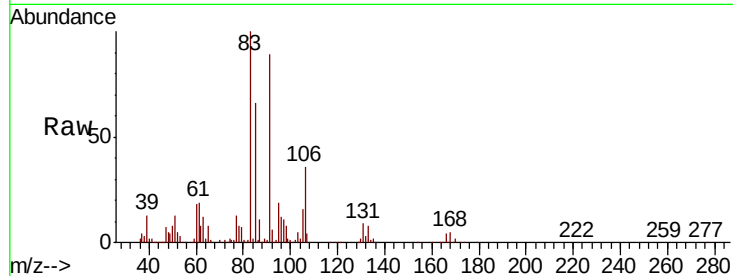
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.446 ppbv
 RT: 13.76 min Scan# 3412
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	83	Resp	1952042
Ion Ratio	100	Lower	Upper
83	100		
131	8.5	4.3	12.8
85	65.3	32.8	98.4

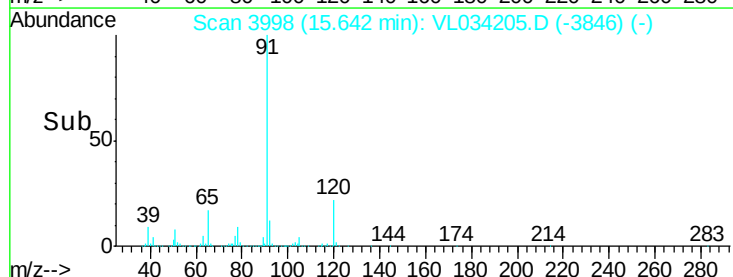
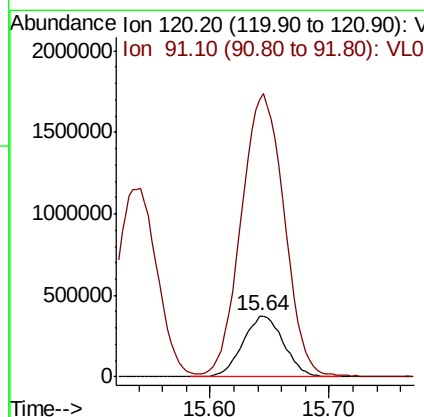
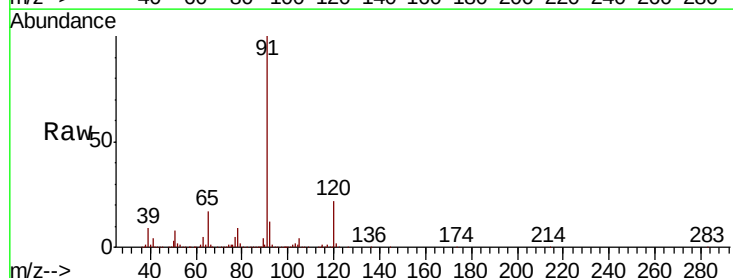
Manual Integrations
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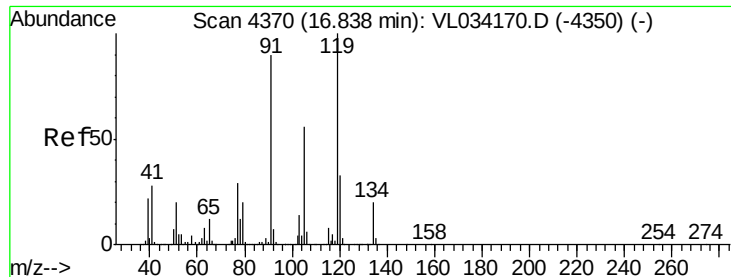
MMDadoda
 10/7/2019 12:29:06 PM



#64
 n-propylbenzene
 Concen: 9.642 ppbv
 RT: 15.64 min Scan# 3998
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Tgt Ion	120	Resp	8900000
Ion Ratio	100	Lower	Upper
120	100		
91	490.8	378.2	567.2





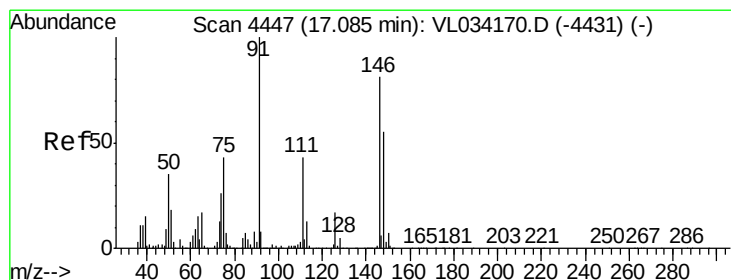
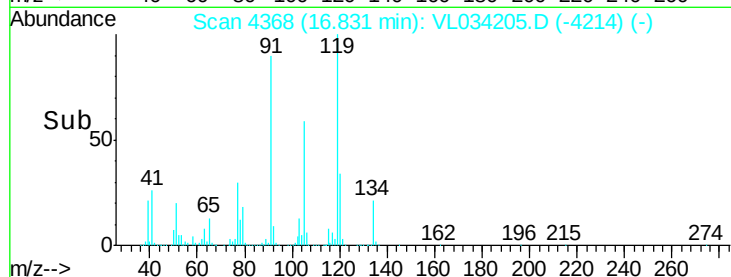
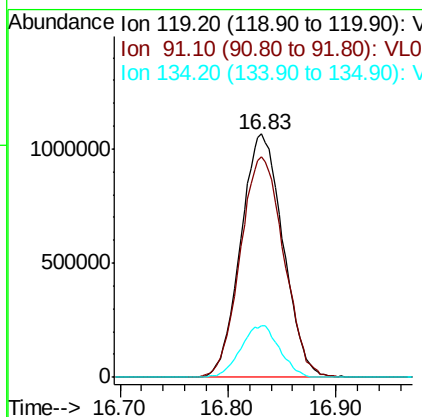
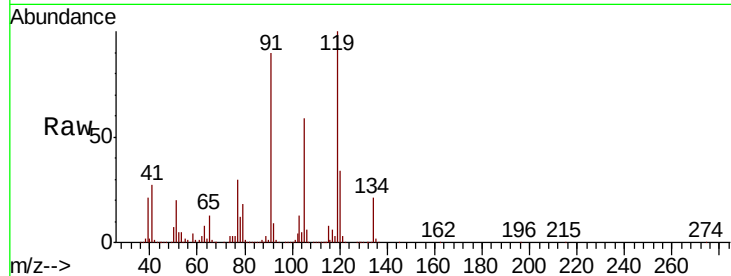
#65
 tert-Butylbenzene
 Concen: 9.091 ppbv
 RT: 16.83 min Scan# 4368
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDCCC010

Tot Ion: 119 Resp: 2898229
 Ion Ratio Lower Upper
 119 100
 91 93.3 74.9 112.3
 134 19.7 15.8 23.6

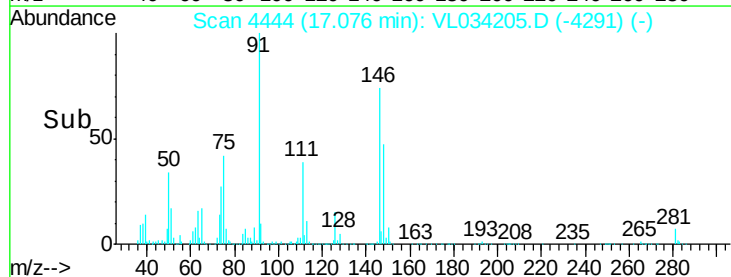
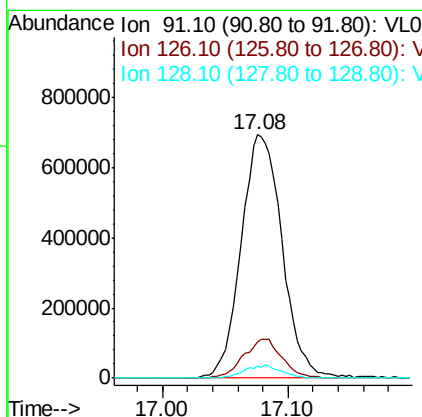
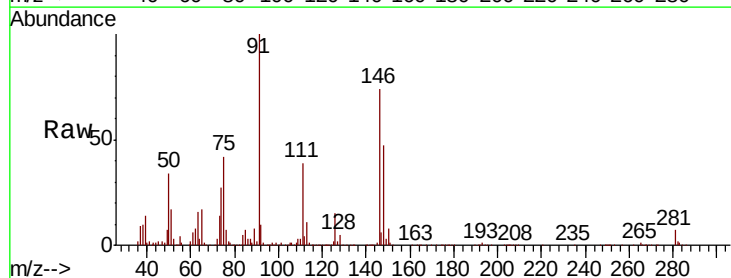
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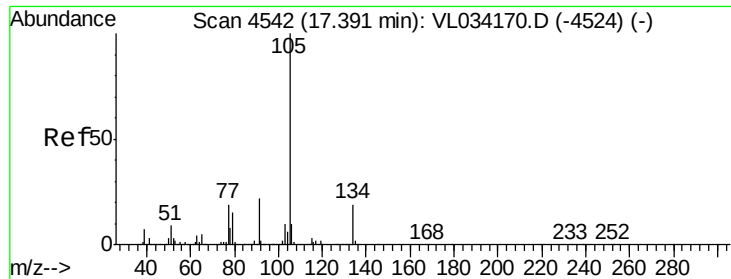
MMDadoda
 10/7/2019 12:29:06 PM



#66
 Benzyl Chloride
 Concen: 13.882 ppbv
 RT: 17.08 min Scan# 4444
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Tgt Ion: 91 Resp: 1565743
 Ion Ratio Lower Upper
 91 100
 126 15.2 12.6 19.0
 128 4.9 4.0 6.0





#67

sec-Butylbenzene

Concen: 9.329 ppbv

RT: 17.38 min Scan# 4539

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 4252962

Ion Ratio Lower Upper

105 100

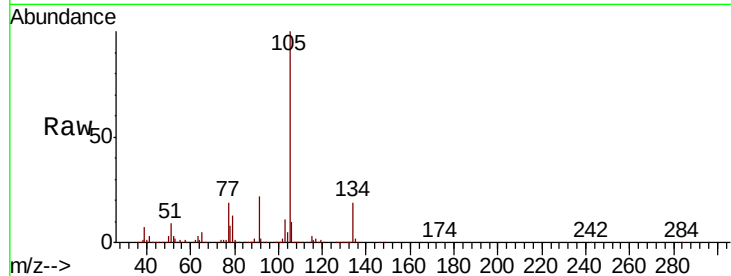
134 18.1 14.6 22.0

Manual Integrations

APPROVED

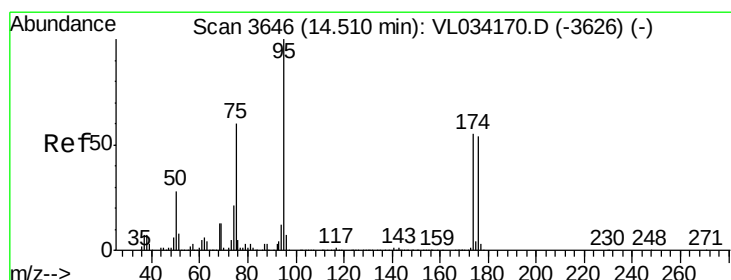
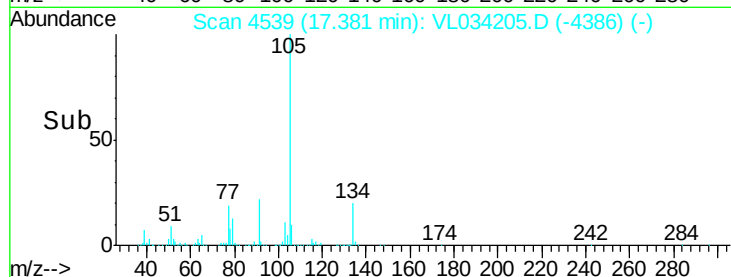
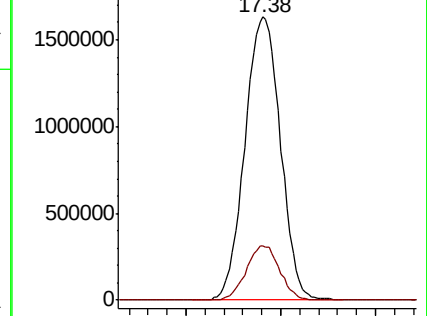
MMDadoda

10/7/2019 12:29:06 PM



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: 9.708 ppbv

RT: 14.50 min Scan# 3642

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

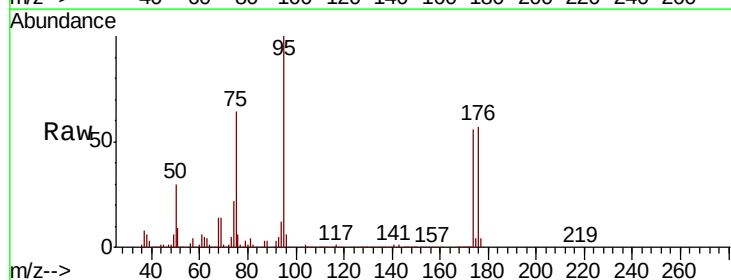
Tgt Ion: 95 Resp: 1779102

Ion Ratio Lower Upper

95 100

174 56.8 45.1 67.7

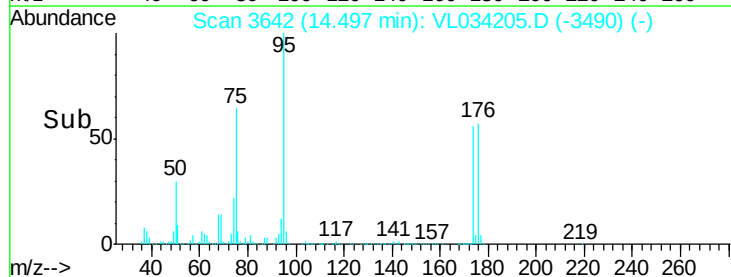
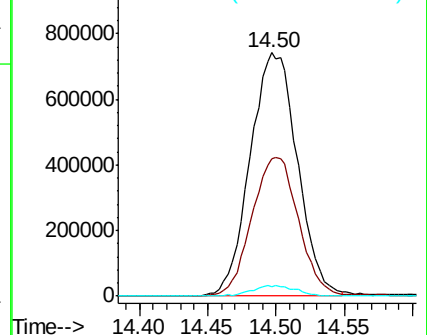
175 4.1 3.3 4.9

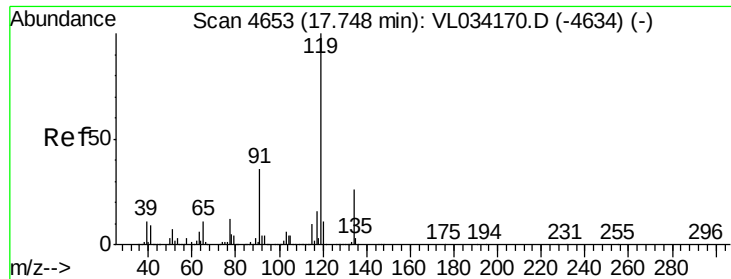


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





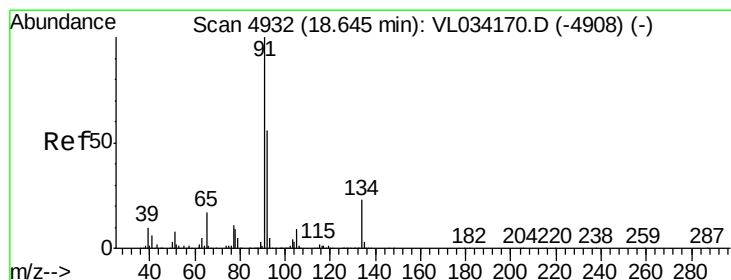
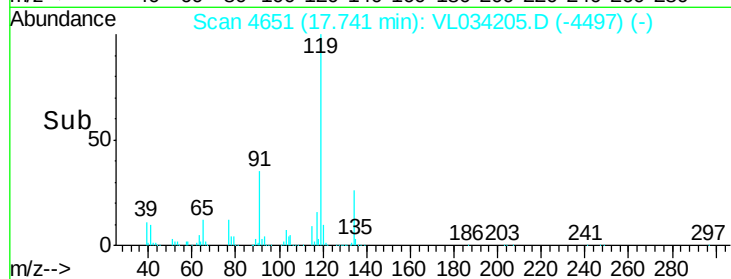
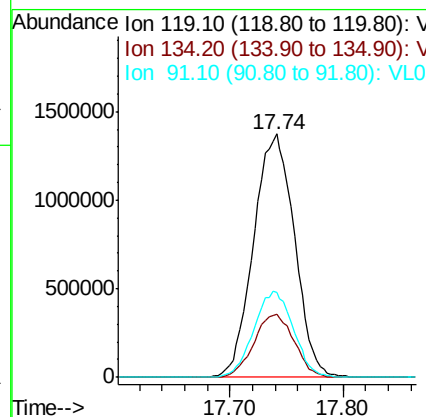
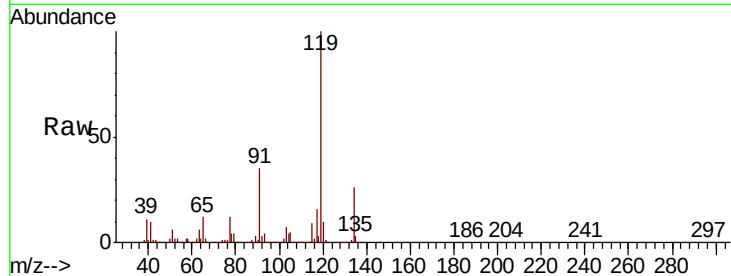
#69
 p-Isopropyltoluene
 Concen: 9.331 ppbv
 RT: 17.74 min Scan# 4651
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.6	30.8
91	34.2	27.6	41.4

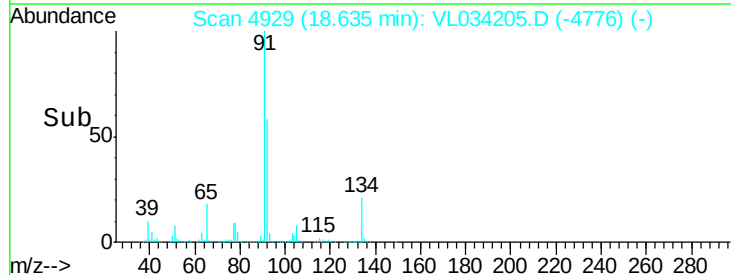
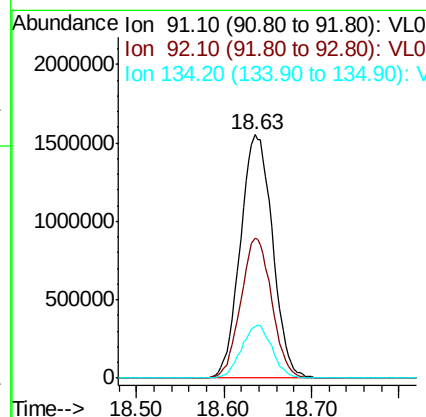
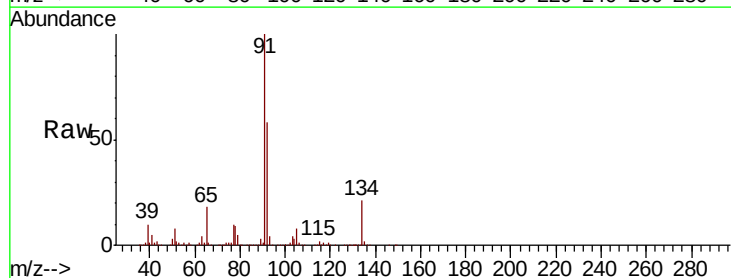
Manual Integrations
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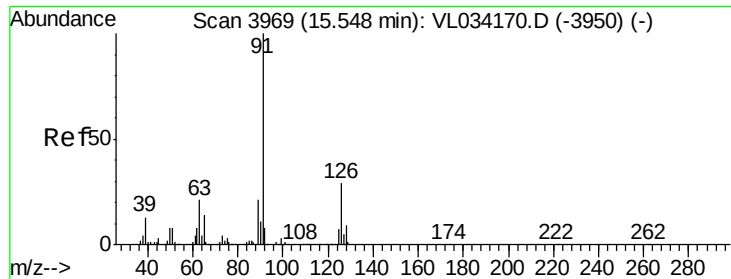
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.202 ppbv
 RT: 18.63 min Scan# 4929
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.3	44.8	67.2
134	20.7	17.3	25.9





#71

2-Chlorotoluene

Concen: 9.482 ppbv

RT: 15.54 min Scan# 3967

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2826653

Ion Ratio Lower Upper

91 100

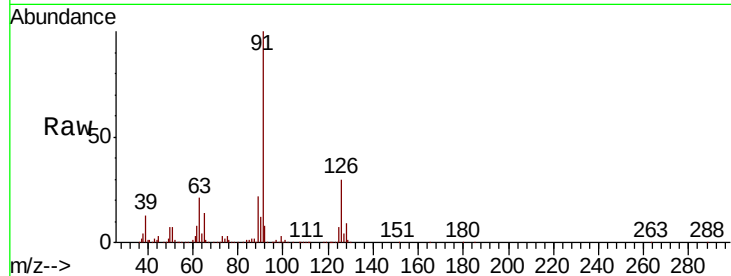
126 28.5 11.2 45.0

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

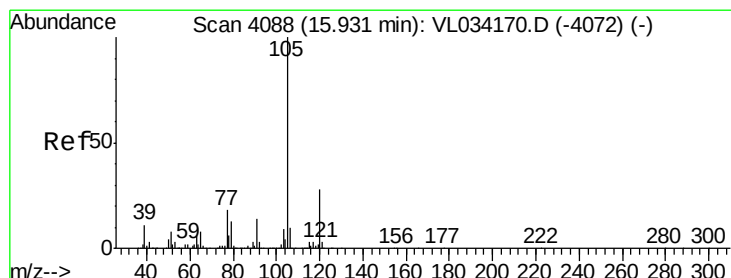
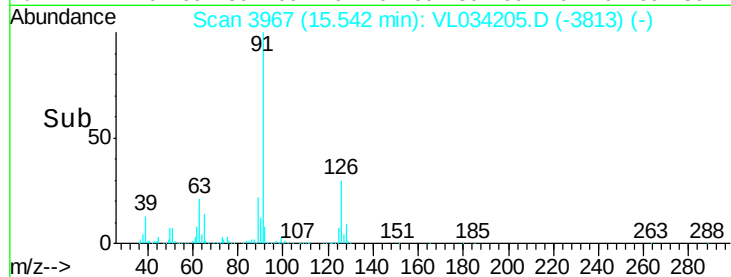
1000000

500000

0

15.50 15.60

Time-->



#72

4-Ethyltoluene

Concen: 9.609 ppbv

RT: 15.92 min Scan# 4086

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Tgt Ion:105 Resp: 3059713

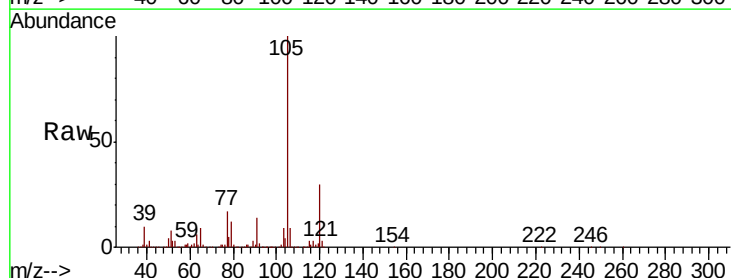
Ion Ratio Lower Upper

105 100

120 28.7 23.3 34.9

91 14.3 11.4 17.2

77 16.3 13.3 19.9



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

2000000

1500000

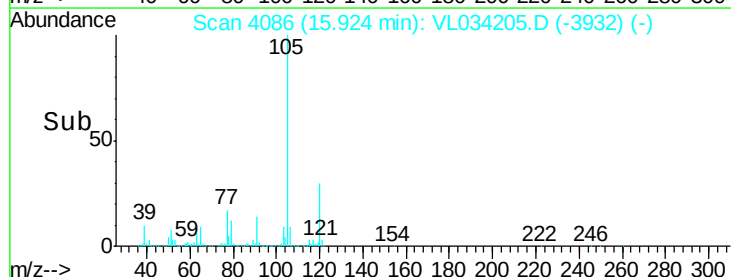
1000000

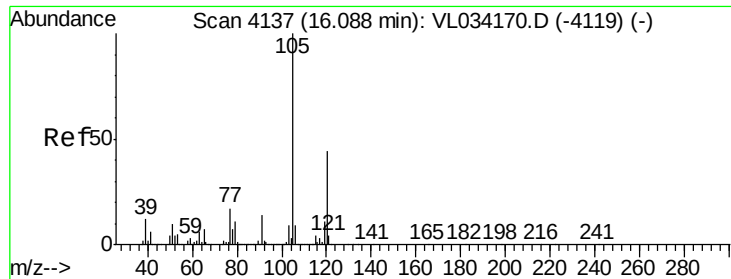
500000

0

15.85 15.90 15.95 16.00

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 9.475 ppbv

RT: 16.08 min Scan# 4134

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 2914734

Ion Ratio Lower Upper

105 100

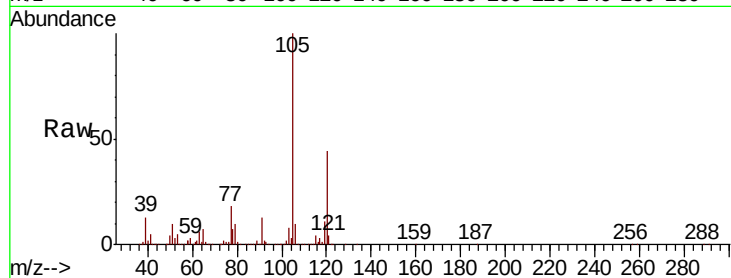
120 43.8 35.6 53.4

Manual Integrations

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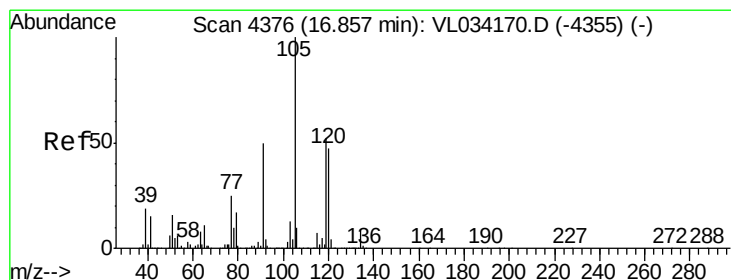
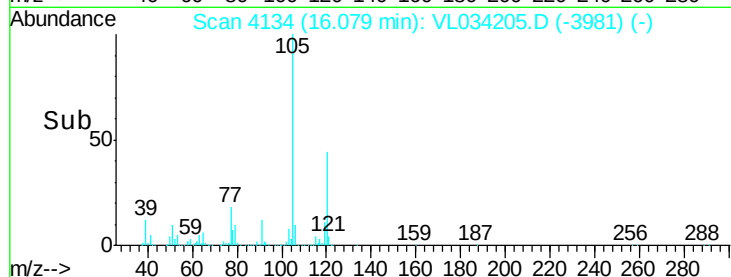
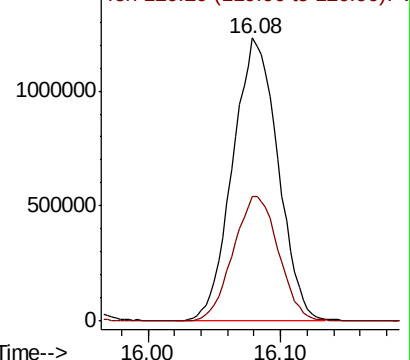
MMDadoda

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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: 8.993 ppbv

RT: 16.85 min Scan# 4374

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Tgt Ion:105 Resp: 2937592

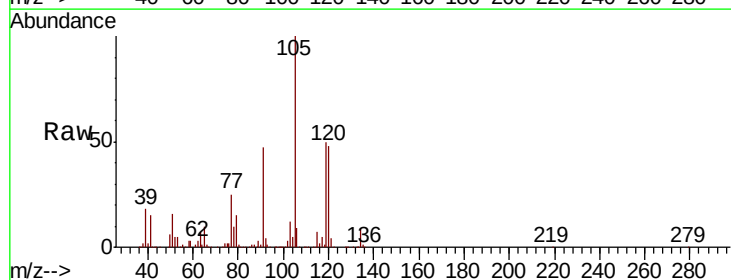
Ion Ratio Lower Upper

105 100

120 47.6 37.5 56.3

91 47.2 41.1 61.7

77 24.7 19.9 29.9

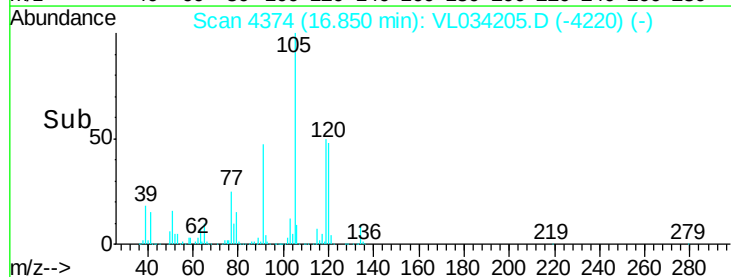
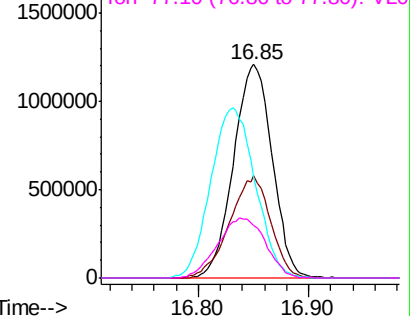


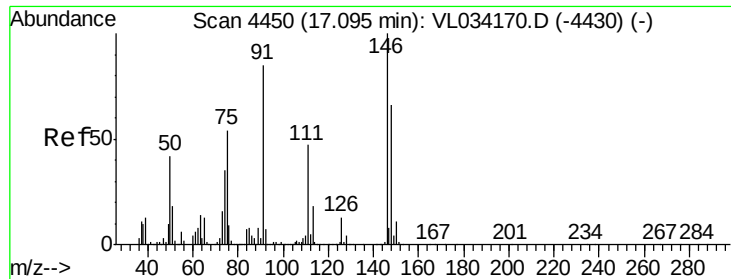
Abundance Ion 105.10 (104.80 to 105.80): V

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





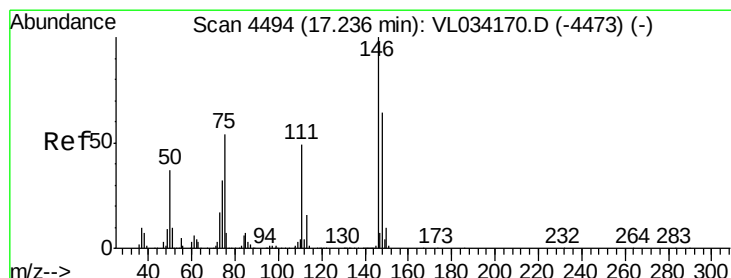
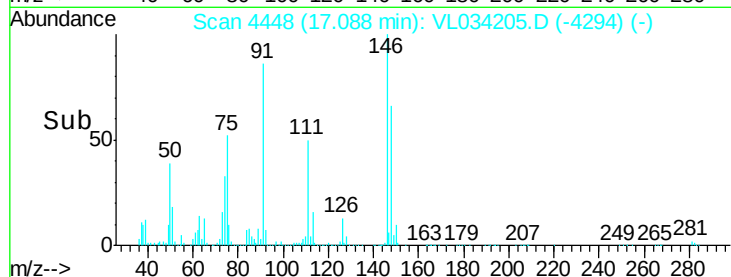
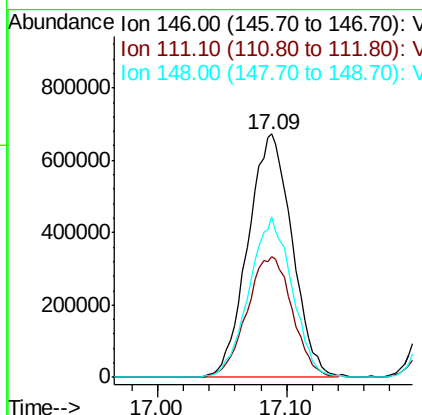
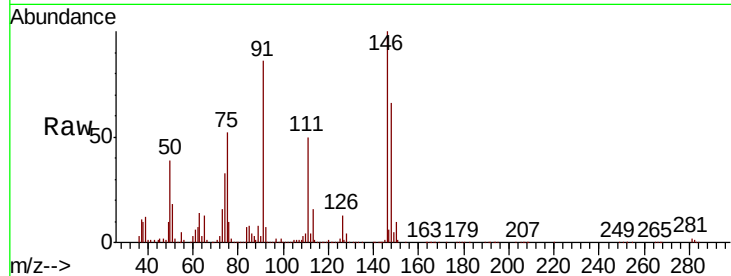
#75
 1,3-Dichlorobenzene
 Concen: 9.155 ppbv
 RT: 17.09 min Scan# 4448
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.0	25.9	77.8
148	64.0	32.6	97.7

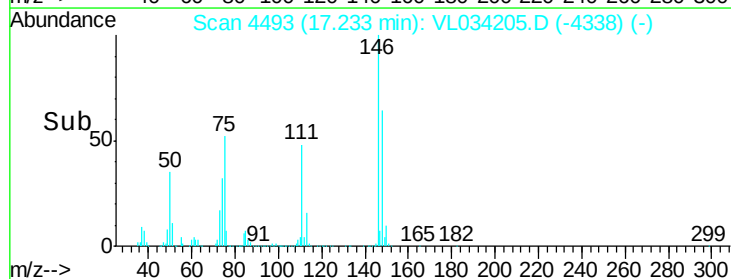
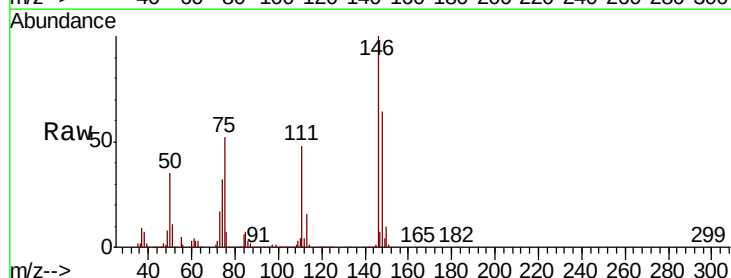
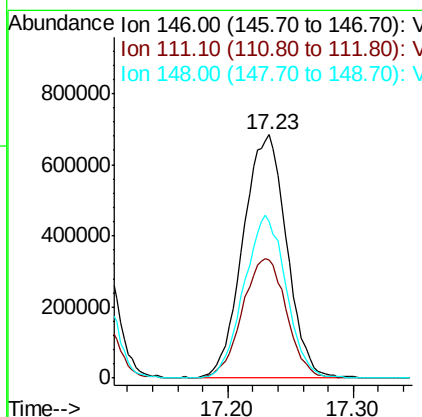
Manual Integrations
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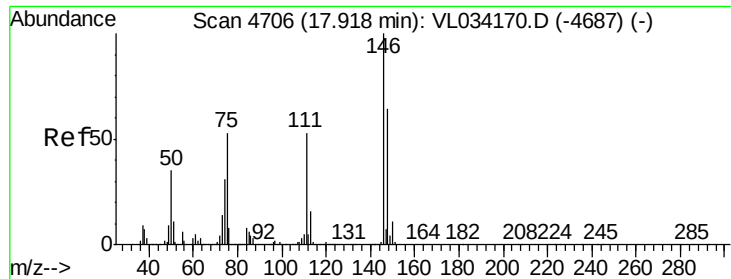
MMDadoda
 10/7/2019 12:29:06 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.143 ppbv
 RT: 17.23 min Scan# 4493
 Delta R.T. -0.00 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.0	24.6	74.0
148	65.3	32.4	97.0





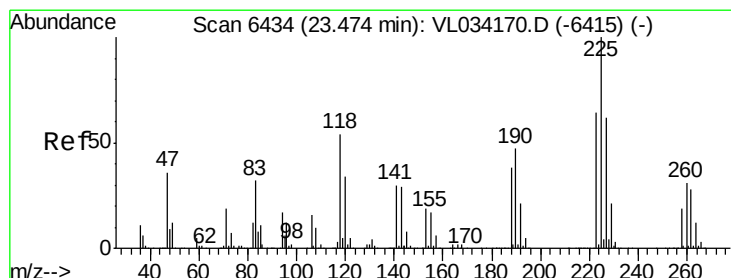
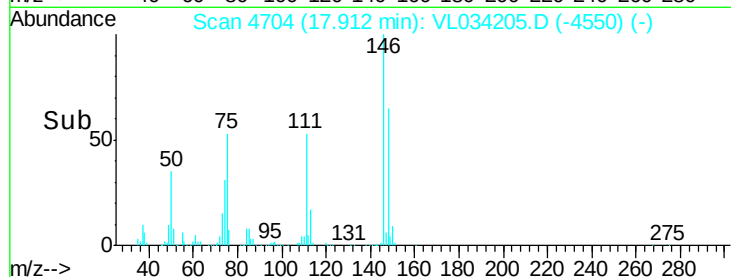
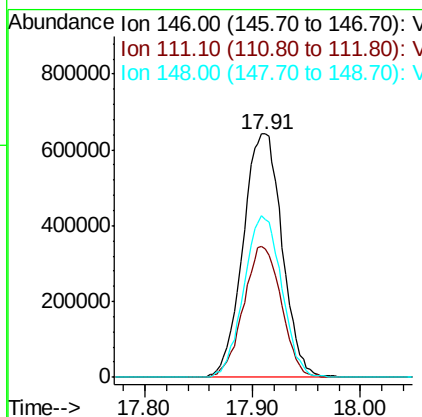
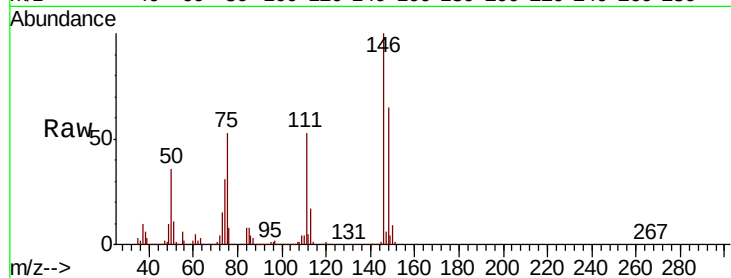
#77
 1,2-Dichlorobenzene
 Concen: 9.107 ppbv
 RT: 17.91 min Scan# 4704
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1615341
 Ion Ratio Lower Upper
 146 100
 111 52.2 26.1 78.3
 148 64.4 31.9 95.9

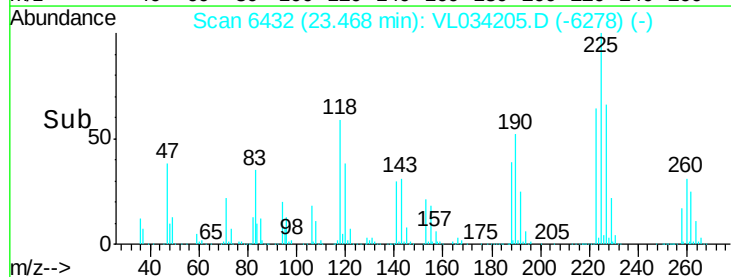
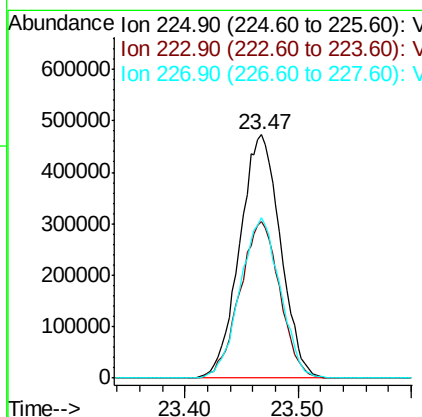
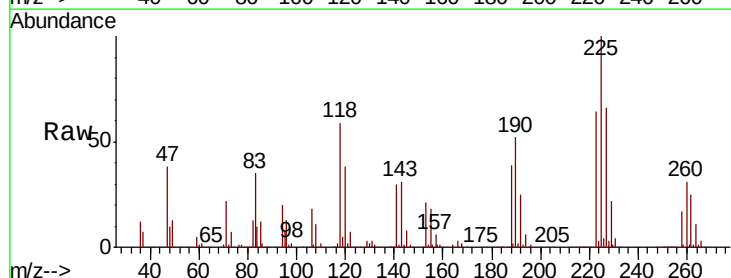
Manual Integrations
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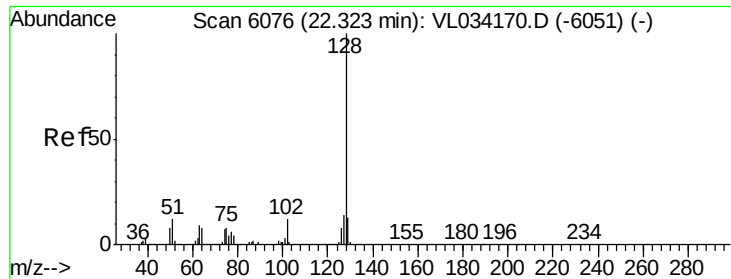
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#78
 Hexachloro-1,3-Butadiene
 Concen: 10.072 ppbv
 RT: 23.47 min Scan# 6432
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Tgt Ion:225 Resp: 1183307
 Ion Ratio Lower Upper
 225 100
 223 63.0 51.7 77.5
 227 64.7 52.1 78.1





#79

Naphthalene

Concen: 9.312 ppbv

RT: 22.31 min Scan# 6073

Delta R.T. -0.01 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 2677953

Ion Ratio Lower Upper

128 100

127 13.2 11.1 16.7

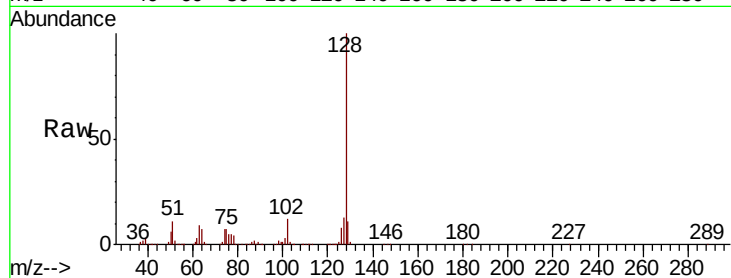
129 10.8 10.2 15.4

Manual Integrations

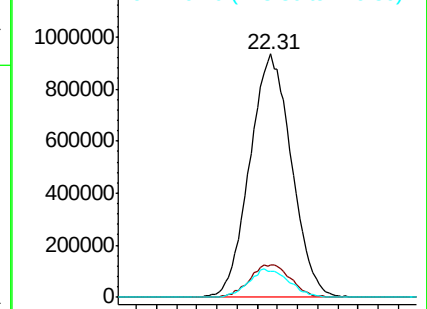
APPROVED

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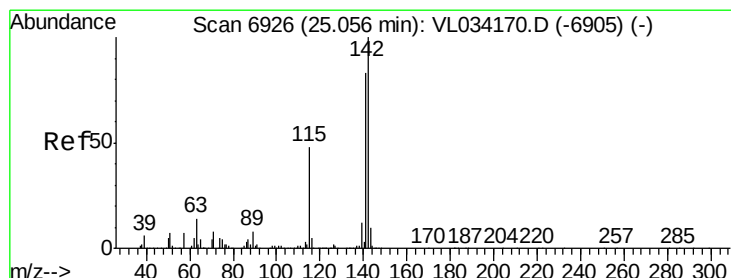
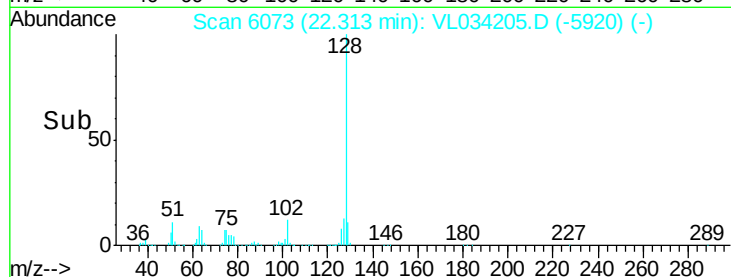
10/7/2019 12:29:06 PM



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



Time-->



#80

Naphthalene, 2-methyl-

Concen: 10.836 ppbv

RT: 25.05 min Scan# 6925

Delta R.T. -0.00 min

Lab File: VL034205.D

Acq: 2 Oct 2019 9:40

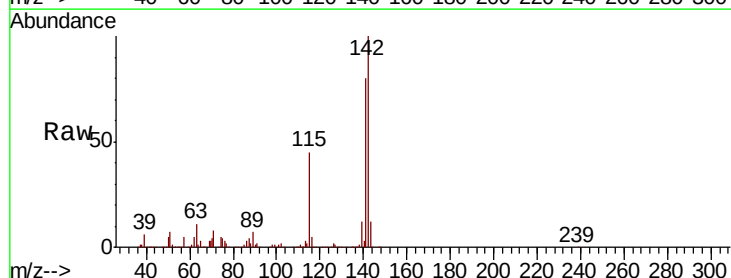
Tgt Ion:142 Resp: 1449081

Ion Ratio Lower Upper

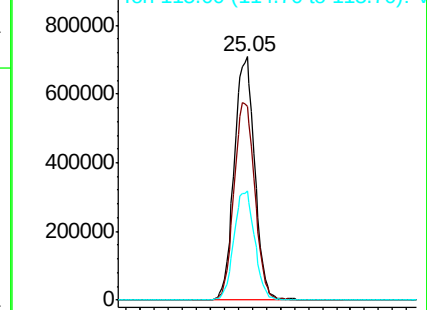
142 100

141 82.4 67.6 101.4

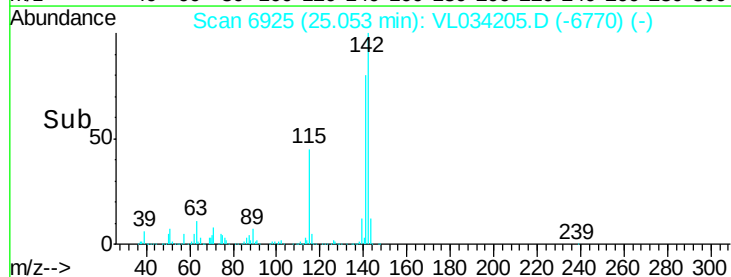
115 45.3 36.9 55.3

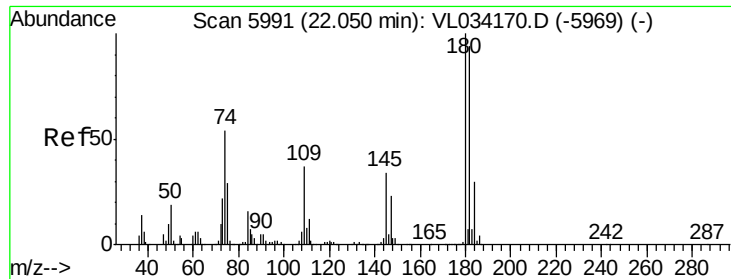


Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V



Time-->





#81
 1,2,4-Trichlorobenzene
 Concen: 9.148 ppbv
 RT: 22.04 min Scan# 5988
 Delta R.T. -0.01 min
 Lab File: VL034205.D
 Acq: 2 Oct 2019 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.4	116.2
184	30.4	25.0	37.4

Manual Integrations
 APPROVED

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