

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL101220\
 Data File : VL035756.D
 Acq On : 12 Oct 2020 9:45 am
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/14/2020 2:11:17 PM

Quant Time: Oct 13 00:16:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1223372	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4691651	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	4582205m	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3451347	10.05	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1746134	8.699	ppbv	98
3) Chlorodifluoromethane	2.97	51	1252437	9.516	ppbv	99
4) Chloromethane	3.12	50	671127	9.492	ppbv	100
5) Vinyl Chloride	3.24	62	796019	9.519	ppbv	97
6) Bromomethane	3.46	94	673509	9.527	ppbv	99
7) Chloroethane	3.54	64	294992	9.618	ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	2206358	9.062	ppbv	100
9) Propene	3.00	41	476350	9.968	ppbv	99
10) Heptane	8.12	43	1379035	10.352	ppbv	100
11) Trichlorofluoromethane	3.94	101	2620634	9.150	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1965063	9.204	ppbv	100
13) Ethanol	3.60	45	101758	8.635	ppbv	99
14) Bromoethene	3.73	108	880794	9.794	ppbv	100
15) Acetone	3.84	43	1106139	8.403	ppbv	99
16) 1,3-Butadiene	3.31	39	497880	10.338	ppbv	100
17) tert-Butyl alcohol	4.29	59	1485738	10.362	ppbv	100
18) 1,1-Dichloroethene	4.28	96	913306	9.770	ppbv	97
19) Isopropyl Alcohol	3.96	45	724243	10.114	ppbv	99
20) Methylene Chloride	4.33	84	755562	7.814	ppbv	97
21) Allyl Chloride	4.40	41	659445	10.335	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	952131	9.641	ppbv	98
23) Vinyl Acetate	5.06	43	1707373	10.589	ppbv	100
24) 1,1-Dichloroethane	5.00	63	1657112	9.436	ppbv	99
25) Ethyl Acetate	5.67	43	2267270	9.572	ppbv	100
26) Hexane	5.68	57	1256594	9.681	ppbv	99
27) Carbon Disulfide	4.54	76	2039194	10.540	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	2202888	10.706	ppbv	100
29) Chloroform	5.74	83	2502780	9.495	ppbv	99
30) Cyclohexane	7.12	84	1360637	10.625	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1342598	10.715	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	2442038	10.510	ppbv	100
34) 2-Butanone	5.24	43	1560356	10.055	ppbv	100
35) Carbon Tetrachloride	7.01	117	2506818	10.248	ppbv	98
36) Benzene	6.89	78	3160375	10.338	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1562583	9.807	ppbv	100
38) Trichloroethene	7.83	130	1543774	10.123	ppbv	99
39) 1,2-Dichloropropane	7.61	63	1090824	9.844	ppbv	98
40) 1,4-Dioxane	7.82	88	530103	10.461	ppbv	97
41) Tetrahydrofuran	6.04	42	881779	11.279	ppbv	100
42) Bromodichloromethane	7.79	83	2617249	10.197	ppbv	99
43) Methyl Methacrylate	8.01	69	1338013	11.005	ppbv	100

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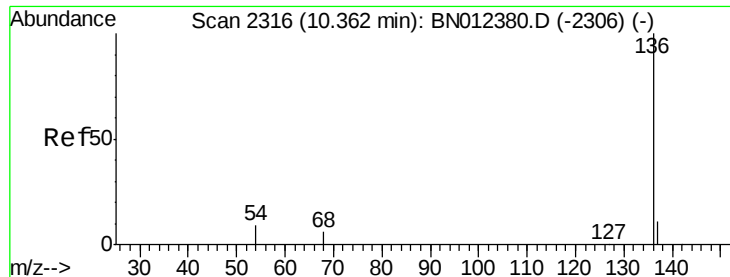
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4245724	9.678	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1504817	12.259	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1783729	11.788	ppbv	98
47) 1,1,2-Trichloroethane	9.47	97	1529821	9.639	ppbv	99
48) Dibromochloromethane	10.30	129	2573035	10.652	ppbv	100
49) Bromoform	13.05	173	2288682	11.167	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2310130	10.192	ppbv	100
51) 2-Hexanone	10.13	43	1939594	10.621	ppbv #	100
52) Tetrachloroethene	11.22	164	1472615	10.017	ppbv	99
53) Toluene	9.81	91	3920420	10.875	ppbv	100
54) 1,2-Dibromoethane	10.61	107	2383202	10.028	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1988573	10.350	ppbv	98
57) Chlorobenzene	12.15	112	3282347	9.484	ppbv	100
58) Ethyl Benzene	12.71	91	5094197	11.077	ppbv	99
59) m/p-Xylene	13.00	91	8685584m	21.625	ppbv	
60) o-Xylene	13.70	91	4235415	10.425	ppbv	100
61) Styrene	13.53	104	3333714	11.867	ppbv	100
62) Isopropylbenzene	14.67	105	6374310	10.115	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	3113933	9.347	ppbv	99
64) n-propylbenzene	15.57	120	1949772	10.571	ppbv	98
65) tert-Butylbenzene	16.75	119	5864711	10.236	ppbv	99
66) Benzyl Chloride	17.00	91	2159324	12.439	ppbv	99
67) sec-Butylbenzene	17.30	105	7830546	9.897	ppbv	100
69) p-Isopropyltoluene	17.66	119	6595995	10.247	ppbv	99
70) n-Butylbenzene	18.56	91	6539019	9.865	ppbv	99
71) 2-Chlorotoluene	15.46	91	4895481	10.650	ppbv	100
72) 4-Ethyltoluene	15.85	105	5173221	10.749	ppbv	100
73) 1,3,5-Trimethylbenzene	16.00	105	4825659	10.610	ppbv	97
74) 1,2,4-Trimethylbenzene	16.77	105	4975006	9.703	ppbv	97
75) 1,3-Dichlorobenzene	17.00	146	3311014	9.459	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	3313436	9.903	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	3253148	9.840	ppbv	99
78) Hexachloro-1,3-Butadiene	23.39	225	1761176	9.655	ppbv	100
79) Naphthalene	22.21	128	4812854	9.842	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	1370601	11.883	ppbv	98
81) 1,2,4-Trichlorobenzene	21.95	180	2535962	10.007	ppbv	100

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



#2

Dichlorodifluoromethane

Concen: 8.699 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 85 Resp: 1746134

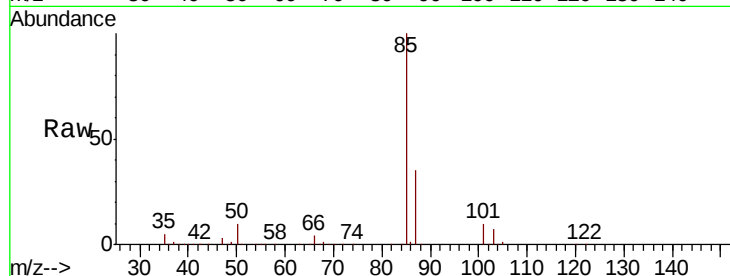
Ion Ratio Lower Upper

85 100

87 35.1 27.3 40.9

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Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1500000

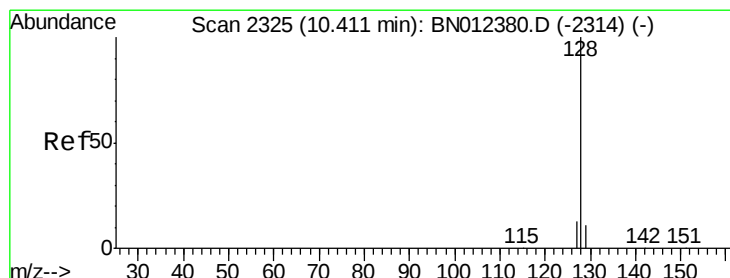
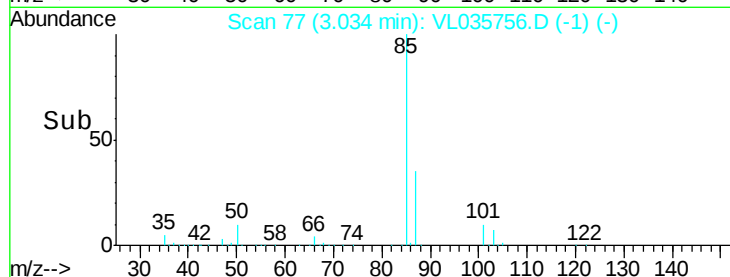
1000000

500000

0

3.03

Time-->



#3

Chlorodifluoromethane

Concen: 9.516 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL035756.D

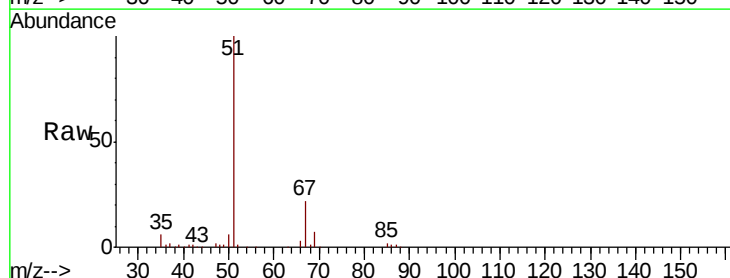
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 51 Resp: 1252437

Ion Ratio Lower Upper

51 100

67 21.6 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

1000000

800000

600000

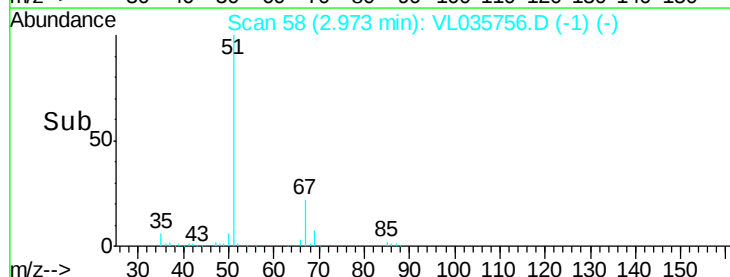
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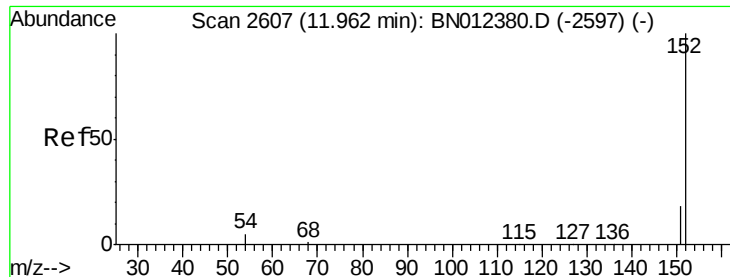
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2.97

Time-->





#4

Chloromethane

Concen: 9.492 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.01 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 50 Resp: 671127

Ion Ratio Lower Upper

50 100

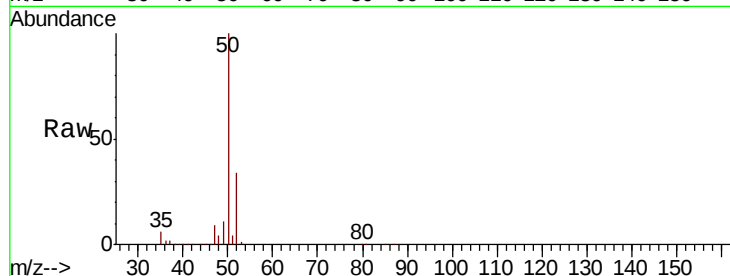
52 33.6 26.8 40.2

Manual Integrations

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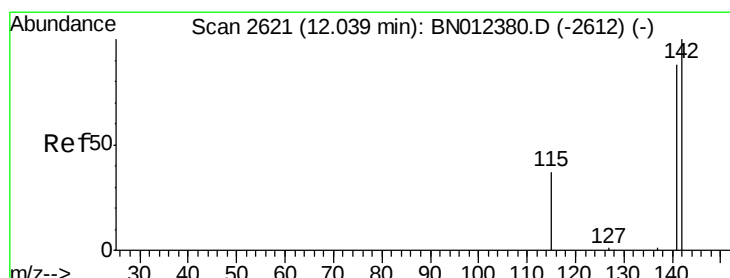
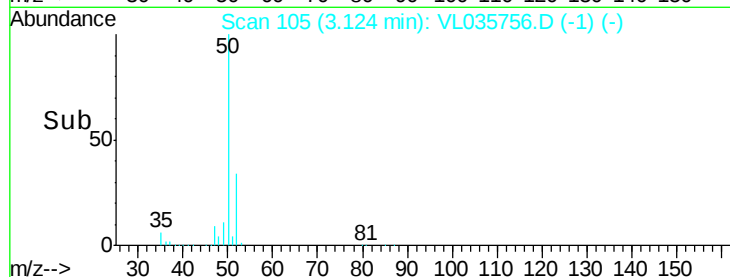
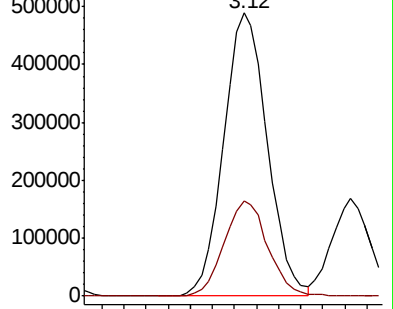
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#5

Vinyl Chloride

Concen: 9.519 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL035756.D

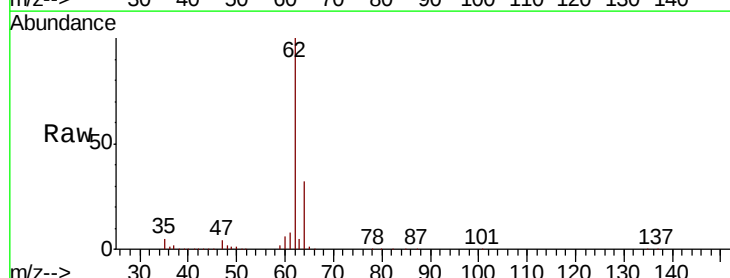
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 62 Resp: 796019

Ion Ratio Lower Upper

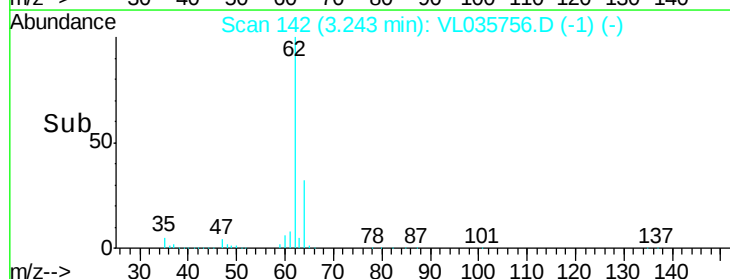
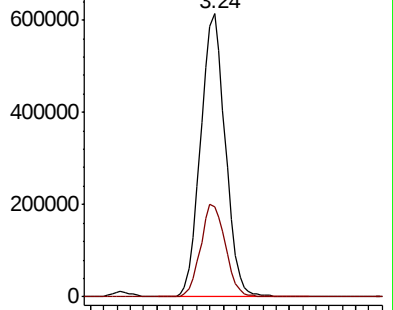
62 100

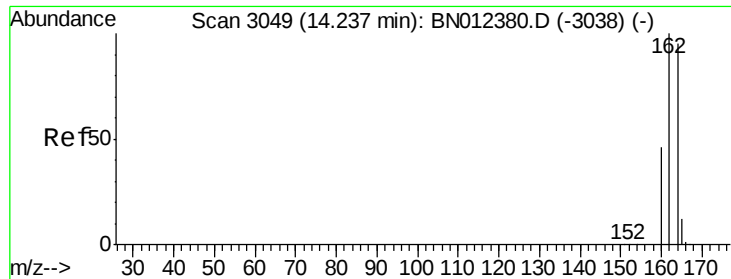
64 31.7 26.8 40.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#6

Bromomethane

Concen: 9.527 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 94 Resp: 673509

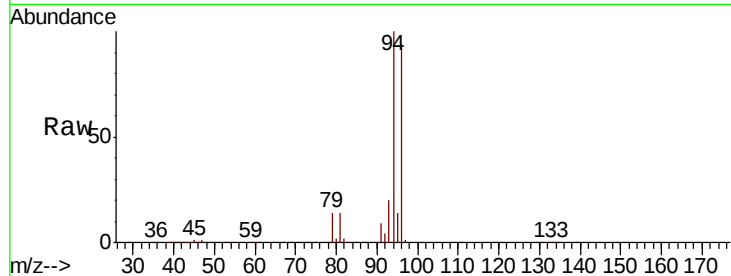
Ion Ratio Lower Upper

94 100

96 94.4 76.3 114.5

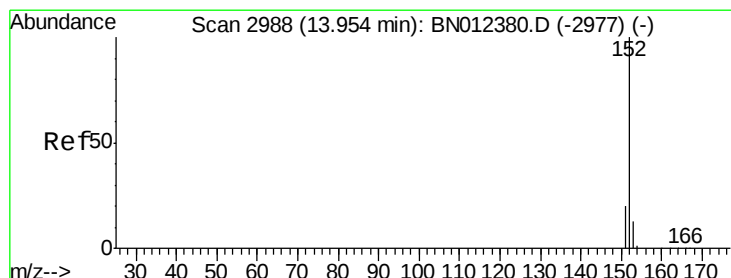
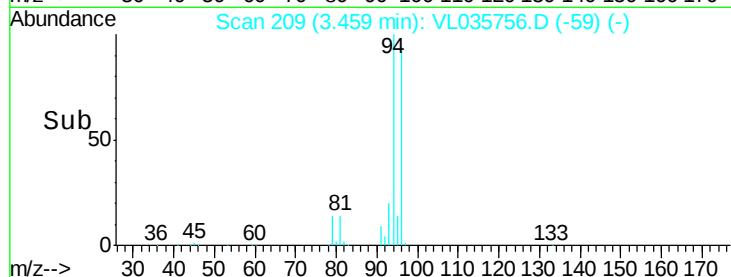
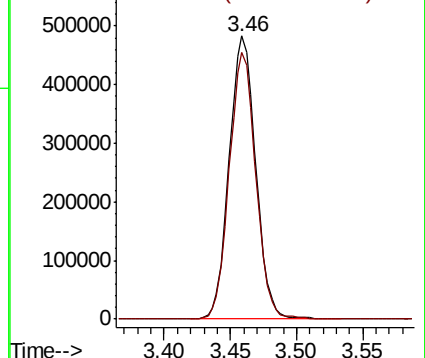
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Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 9.618 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.02 min

Lab File: VL035756.D

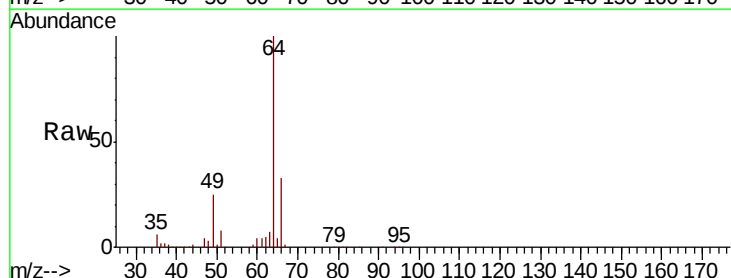
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 64 Resp: 294992

Ion Ratio Lower Upper

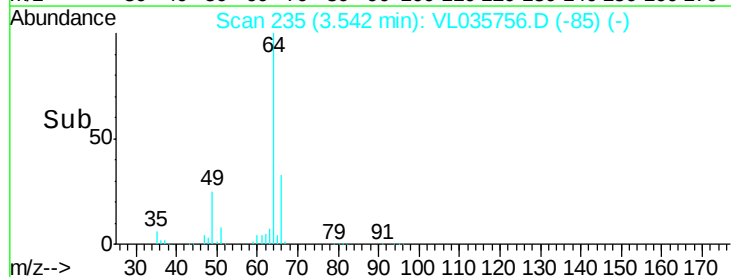
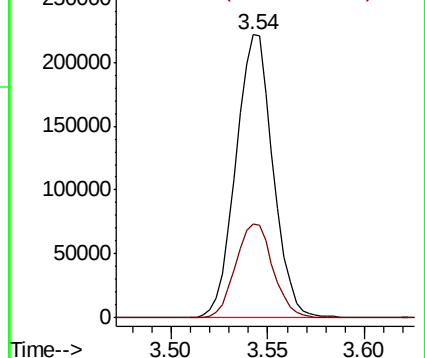
64 100

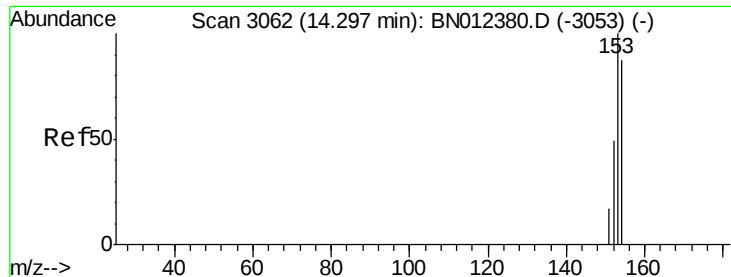
66 33.4 26.9 40.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 9.062 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.01 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 85 Resp: 2206358

Ion Ratio Lower Upper

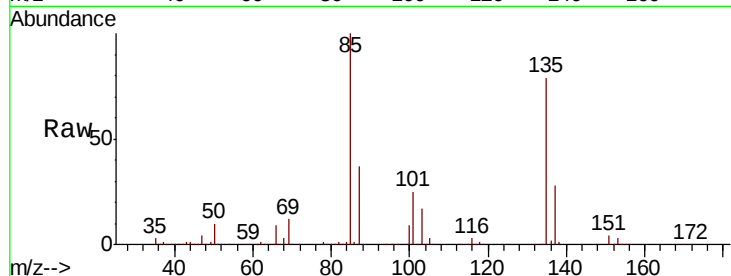
85 100

135 80.3 64.3 96.5

Manual Integrations
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Abundance Ion 85.00 (84.70 to 85.70): VL0

2000000 Ion 135.00 (134.70 to 135.70): VL0

1500000

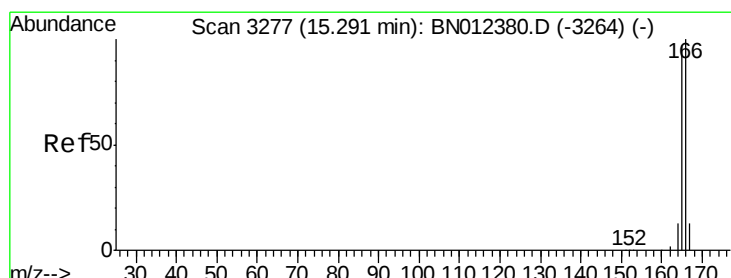
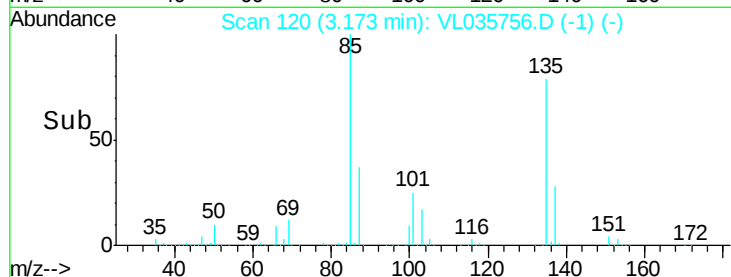
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500000

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Time-->

3.10 3.15 3.20



#9

Propene

Concen: 9.968 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035756.D

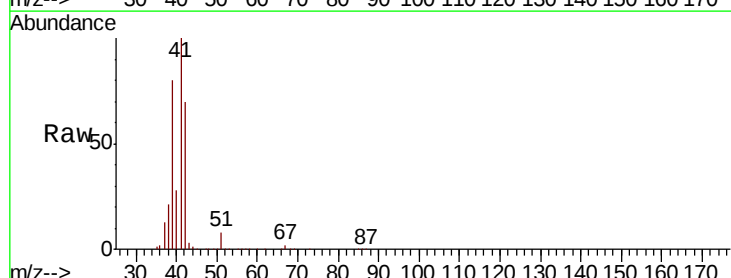
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 41 Resp: 476350

Ion Ratio Lower Upper

41 100

42 70.8 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

400000

300000

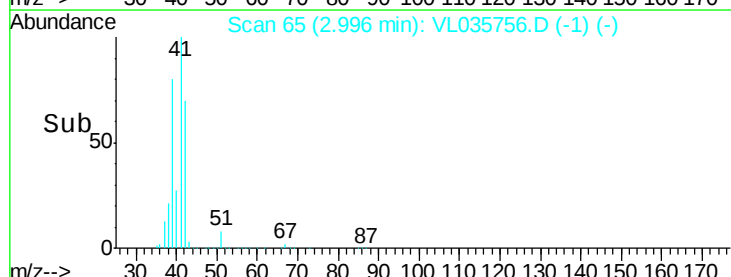
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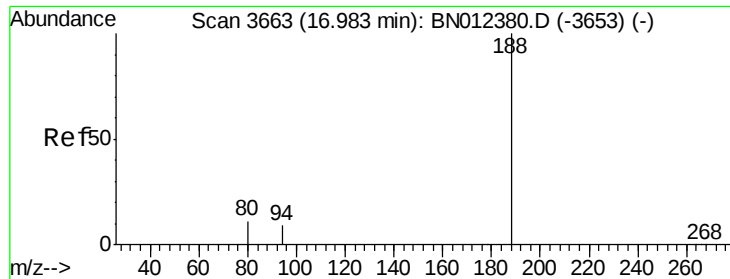
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Time-->

2.95 3.00 3.05





#10

Heptane

Concen: 10.352 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 43 Resp: 1379035

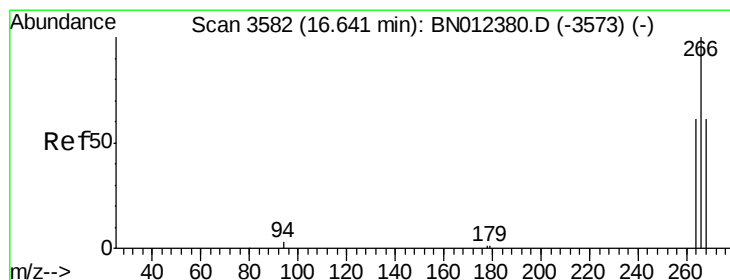
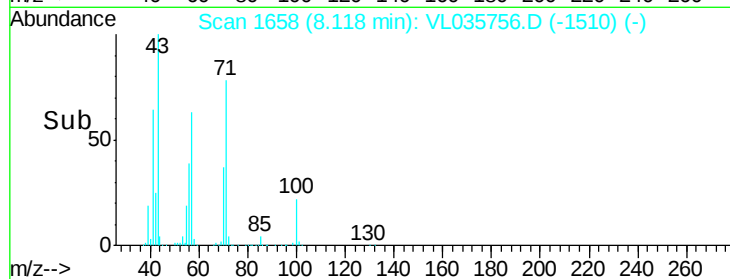
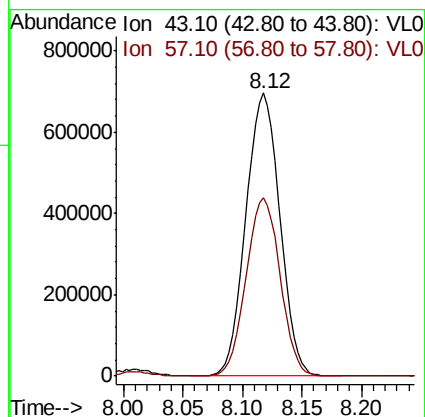
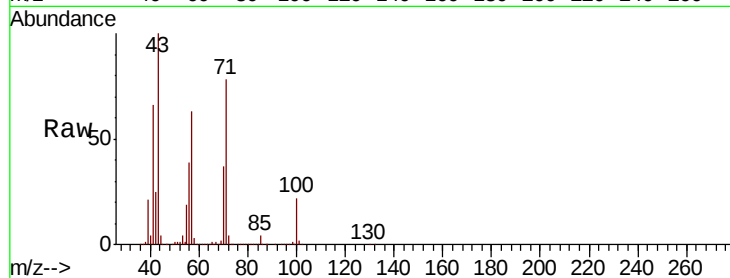
Ion Ratio Lower Upper

43 100

57 63.1 50.4 75.6

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 9.150 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.02 min

Lab File: VL035756.D

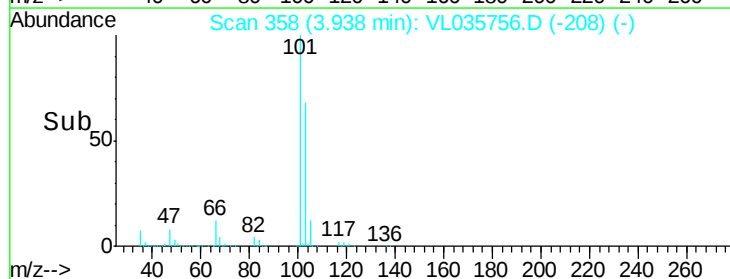
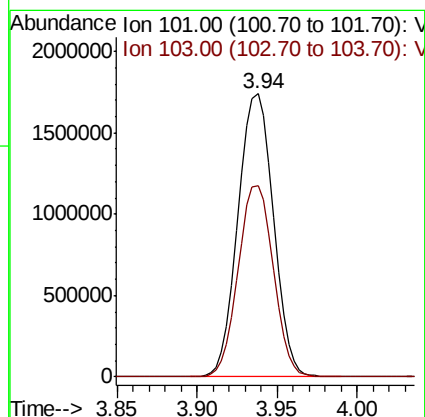
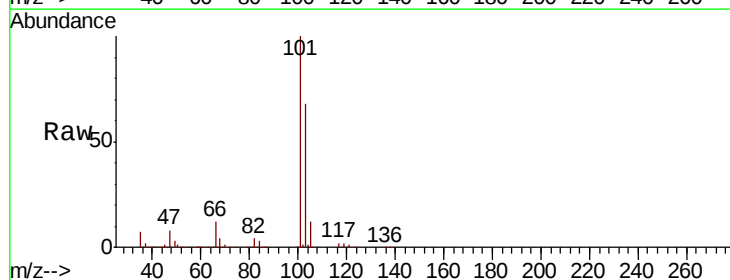
Acq: 12 Oct 2020 9:45 am

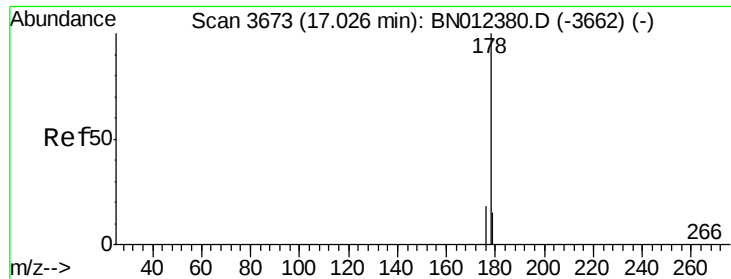
Tgt Ion: 101 Resp: 2620634

Ion Ratio Lower Upper

101 100

103 67.6 55.6 83.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.204 ppbv

RT: 4.47 min Scan# 524

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1965063

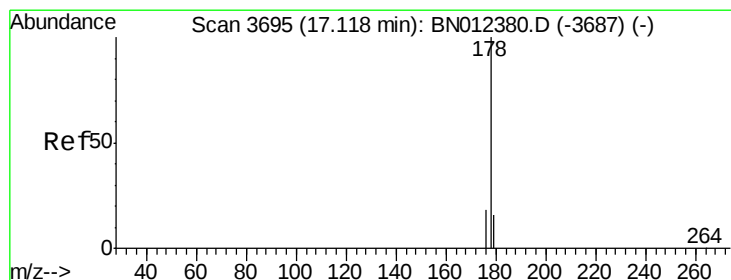
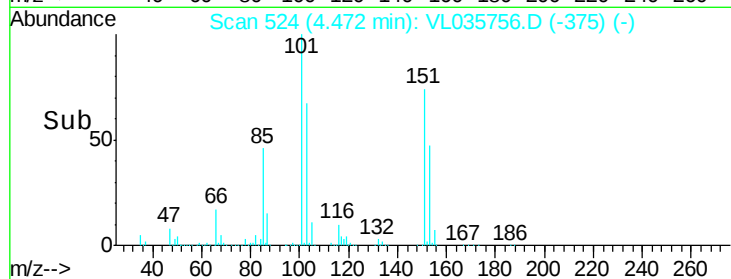
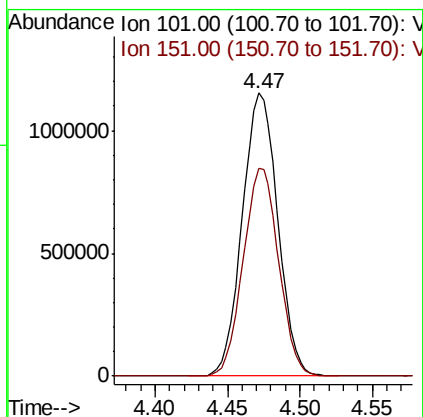
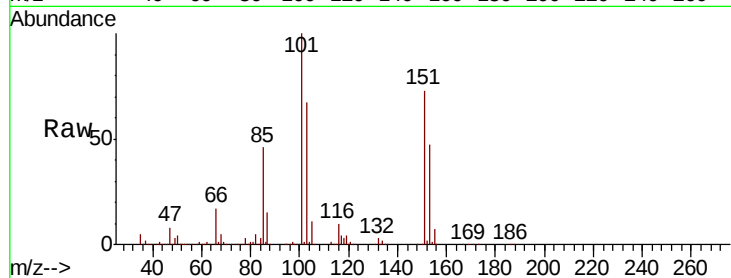
Ion Ratio Lower Upper

101 100

151 73.6 59.1 88.7

Manual Integrations
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#13

Ethanol

Concen: 8.635 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL035756.D

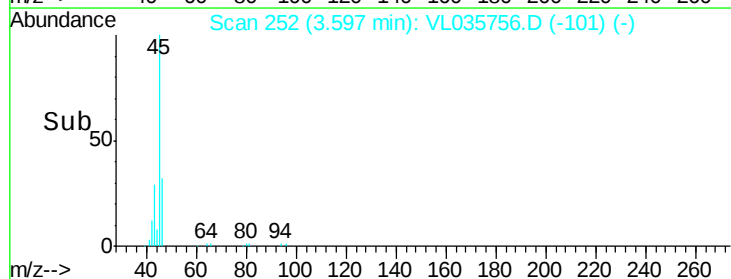
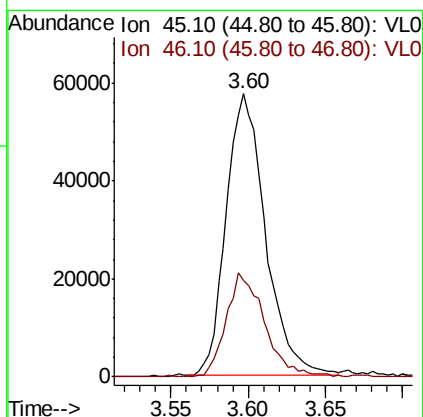
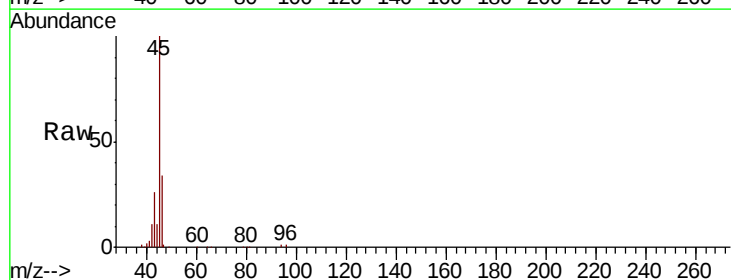
Acq: 12 Oct 2020 9:45 am

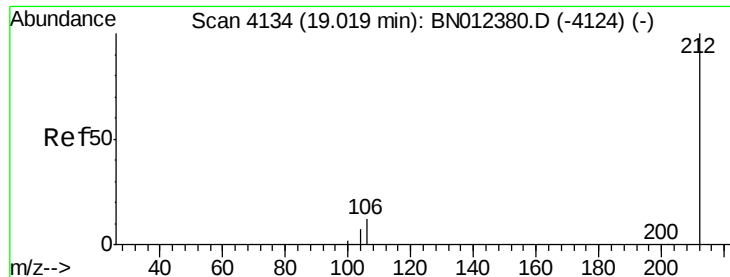
Tgt Ion: 45 Resp: 101758

Ion Ratio Lower Upper

45 100

46 36.4 14.7 58.7





#14

Bromoethene

Concen: 9.794 ppbv

RT: 3.73 min Scan# 292

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 108 Resp: 880794

Ion Ratio Lower Upper

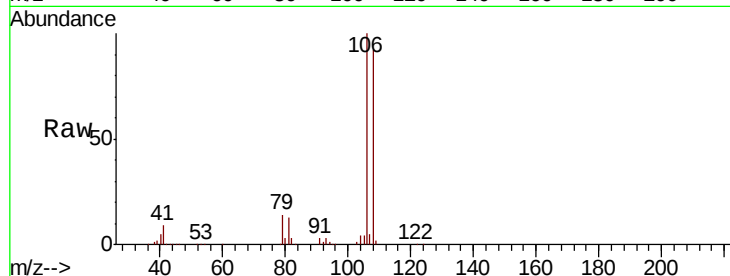
108 100

106 105.9 84.6 126.8

79 14.7 11.6 17.4

Manual Integrations
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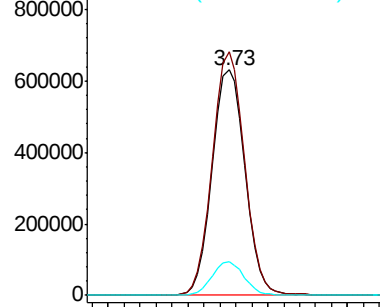
MMDadoda
10/14/2020 2:11:17 PM



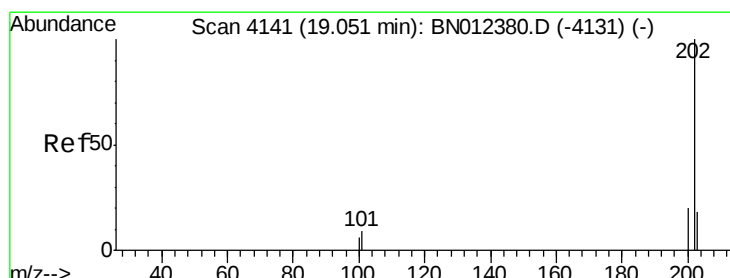
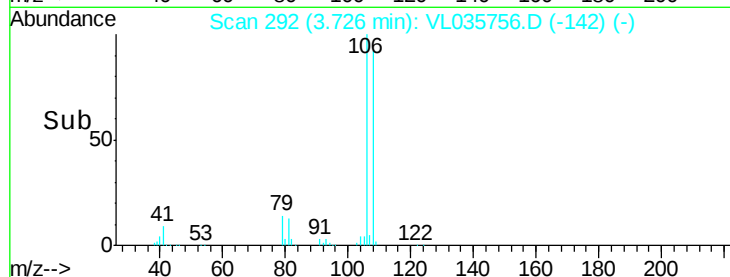
Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



Time-->



#15

Acetone

Concen: 8.403 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.02 min

Lab File: VL035756.D

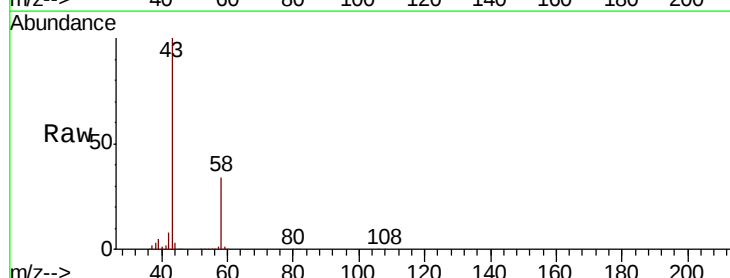
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 43 Resp: 1106139

Ion Ratio Lower Upper

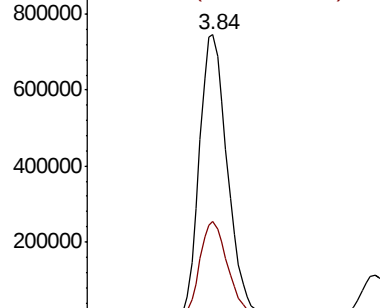
43 100

58 34.4 27.3 40.9

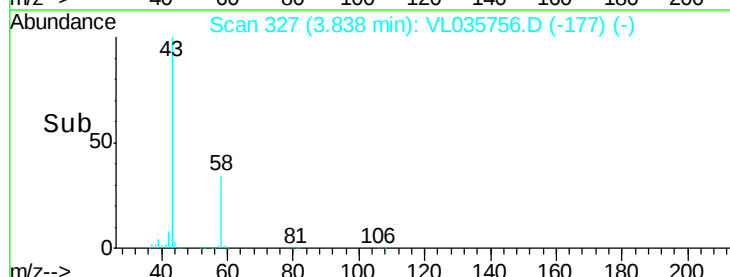


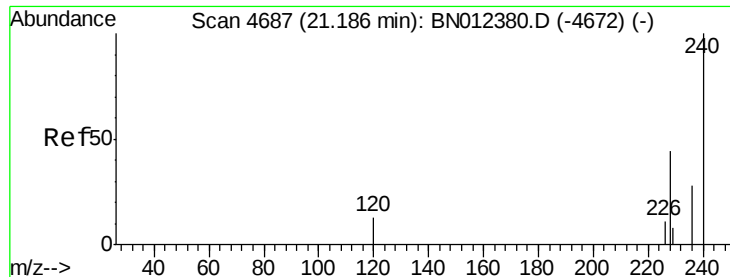
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->





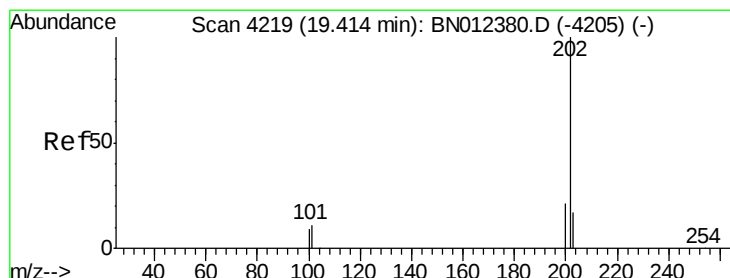
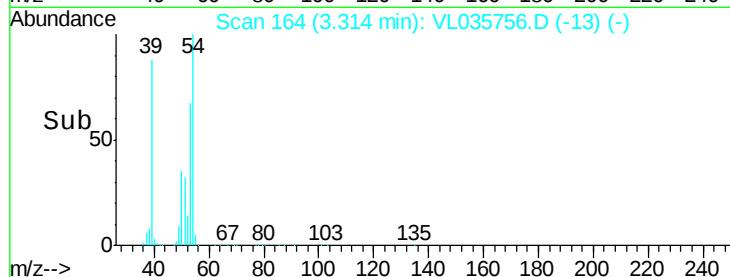
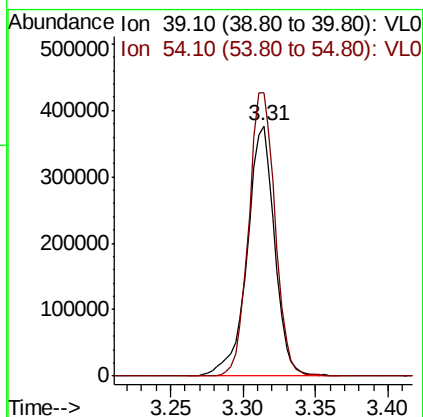
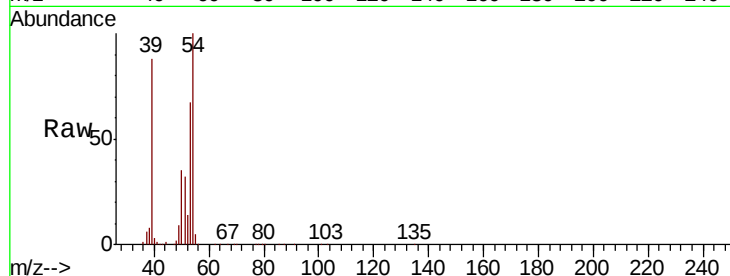
#16
 1,3-Butadiene
 Concen: 10.338 ppbv
 RT: 3.31 min Scan# 164
 Delta R.T. -0.01 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 39 Resp: 497880
 Ion Ratio Lower Upper
 39 100
 54 109.4 87.4 131.0

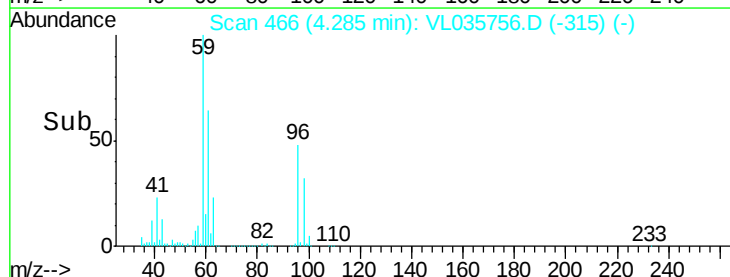
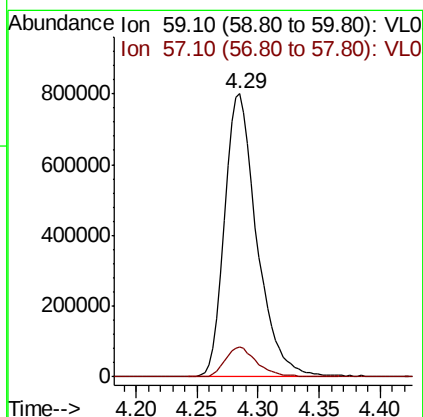
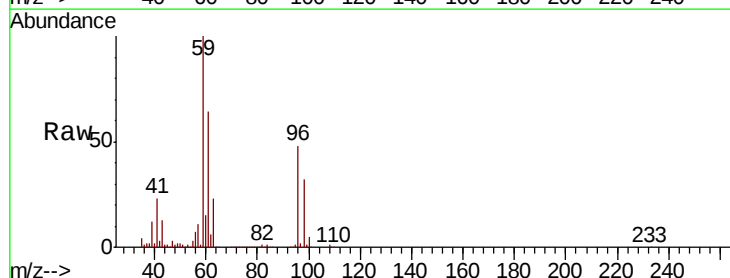
Manual Integrations
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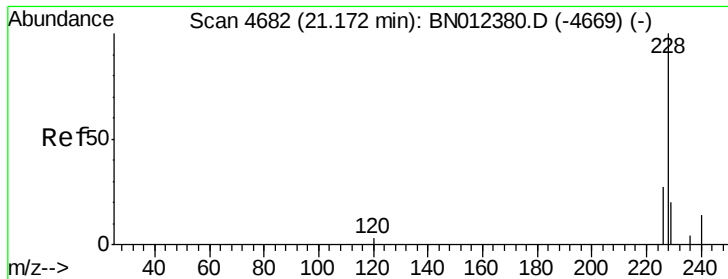
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#17
 tert-Butyl alcohol
 Concen: 10.362 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. -0.01 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Tgt Ion: 59 Resp: 1485738
 Ion Ratio Lower Upper
 59 100
 57 10.4 8.5 12.7





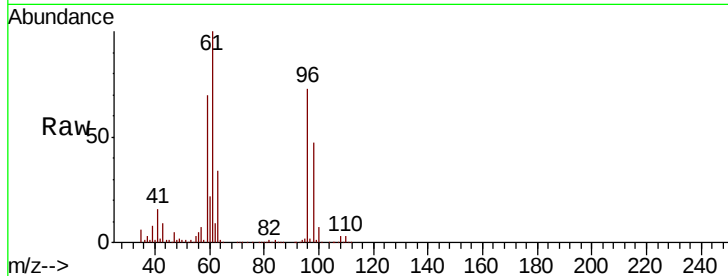
#18
 1,1-Dichloroethene
 Concen: 9.770 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. -0.02 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	96	Resp	913306
Ion	Ratio	Lower	Upper
96	100		
61	137.4	106.7	160.1
98	64.9	50.8	76.2

Manual Integrations
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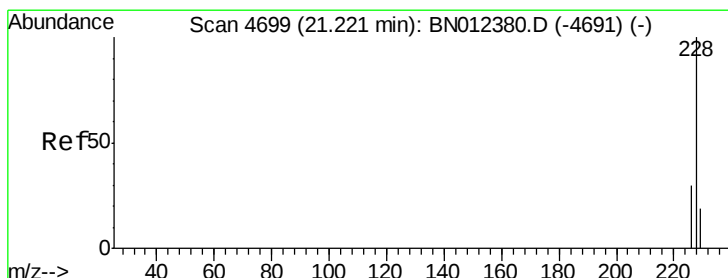
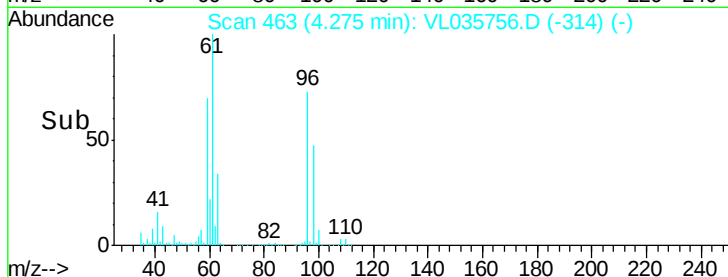
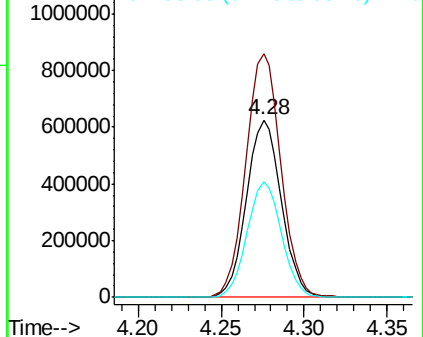


Abundance

Ion 96.00 (95.70 to 96.70): VL0

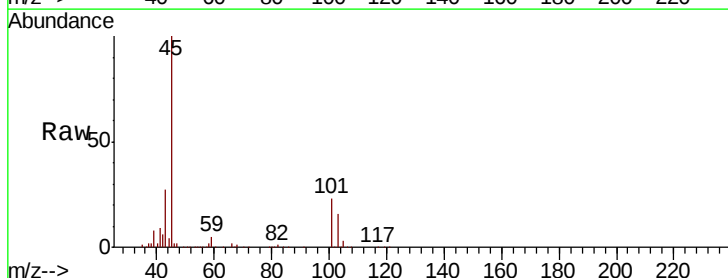
Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#19
 Isopropyl Alcohol
 Concen: 10.114 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. -0.02 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

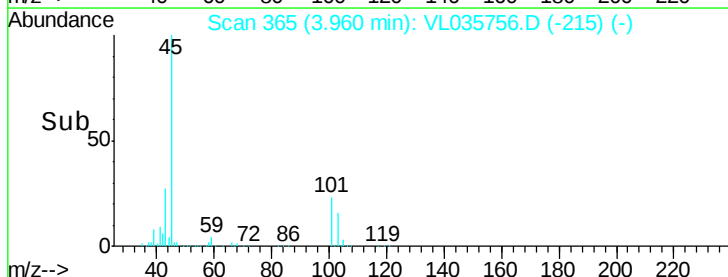
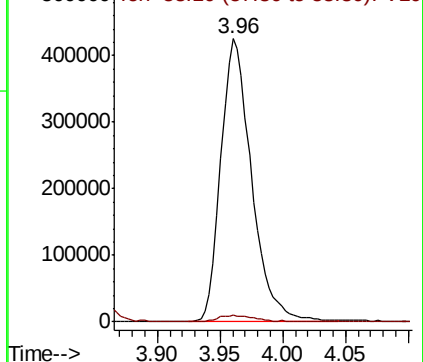
Tgt Ion	45	Resp	724243
Ion	Ratio	Lower	Upper
45	100		
58	3.1	2.8	4.2

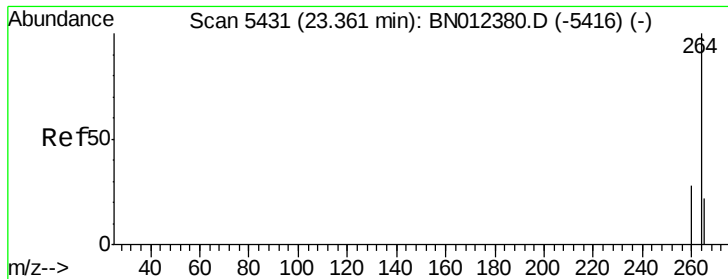


Abundance

Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





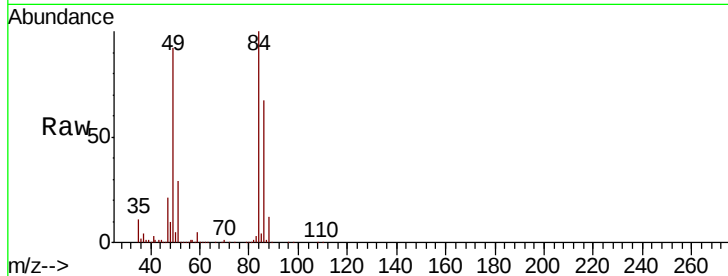
#20
Methvlene Chloride
Concen: 7.814 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

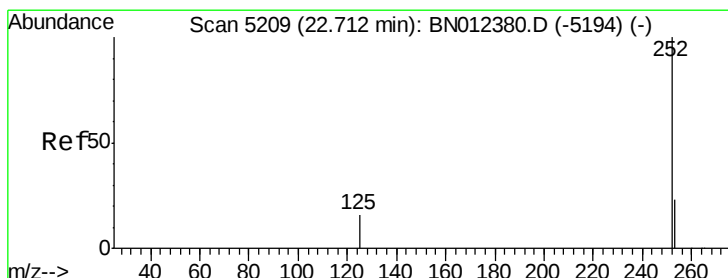
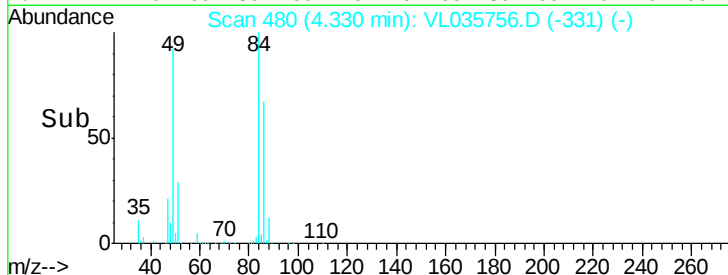
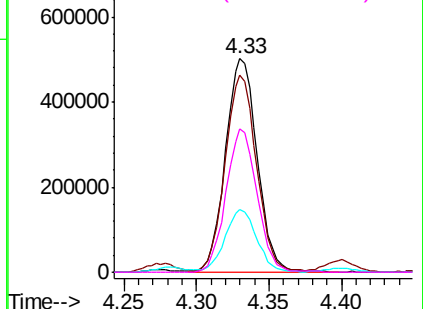
Tot Ion	84	Resp	755562
Ion	Ratio	Lower	Upper
84	100		
49	91.5	69.8	104.6
51	28.2	21.8	32.8
86	67.2	52.6	78.8

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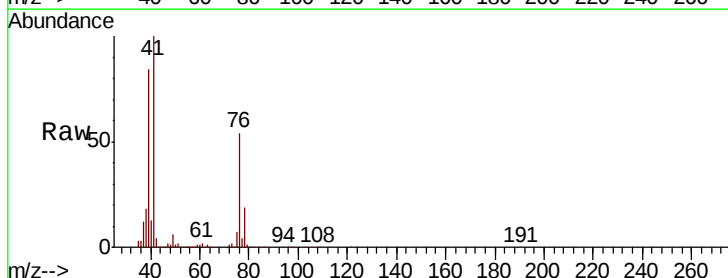


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

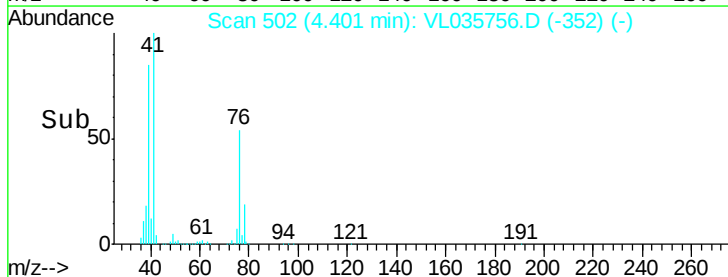
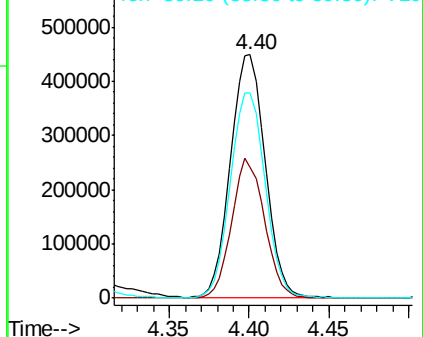


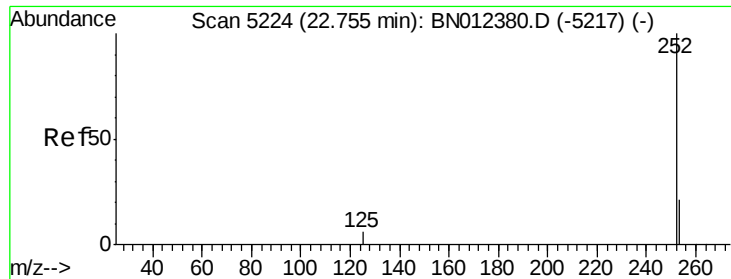
#21
Allyl Chloride
Concen: 10.335 ppbv
RT: 4.40 min Scan# 502
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion	41	Resp	659445
Ion	Ratio	Lower	Upper
41	100		
76	54.7	44.8	67.2
39	85.4	68.4	102.6



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





#22

trans-1,2-Dichloroethene

Concen: 9.641 ppbv

RT: 4.87 min Scan# 649

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 96 Resp: 952131

Ion Ratio Lower Upper

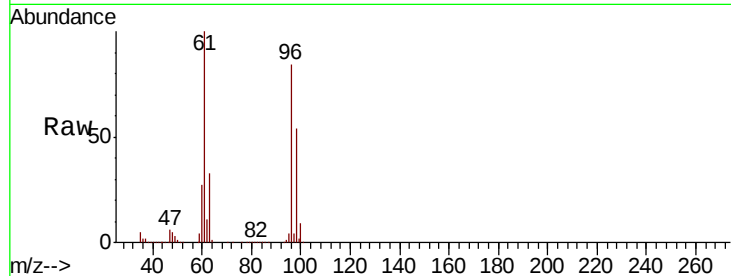
96 100

61 119.6 93.7 140.5

98 64.2 51.2 76.8

Manual Integrations
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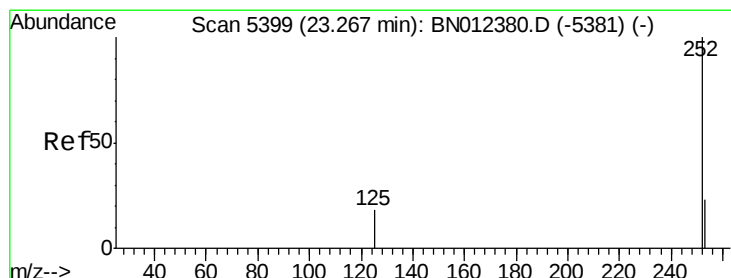
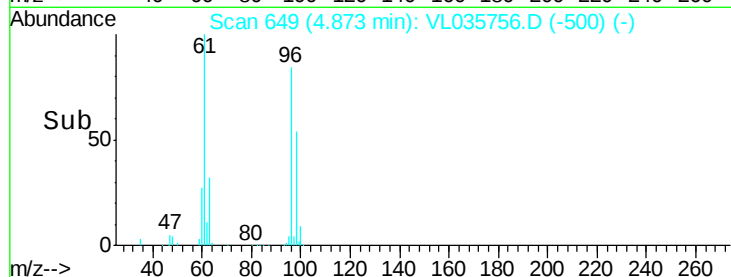
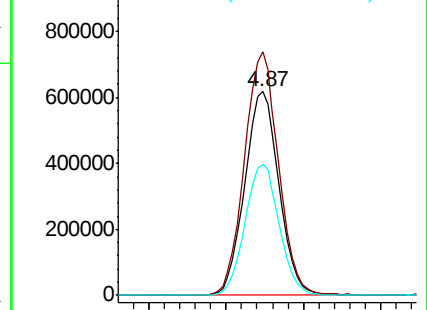
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Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 10.589 ppbv

RT: 5.06 min Scan# 708

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Tgt Ion: 43 Resp: 1707373

Ion Ratio Lower Upper

43 100

86 12.2 9.7 14.5

42 9.7 7.9 11.9

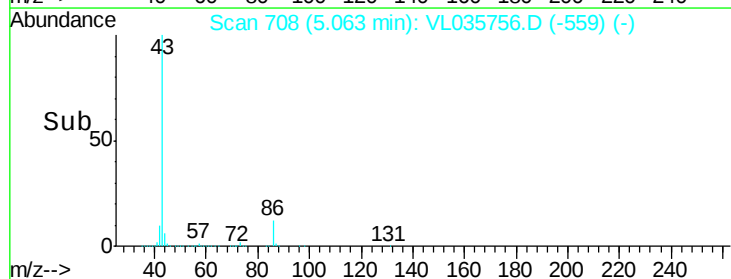
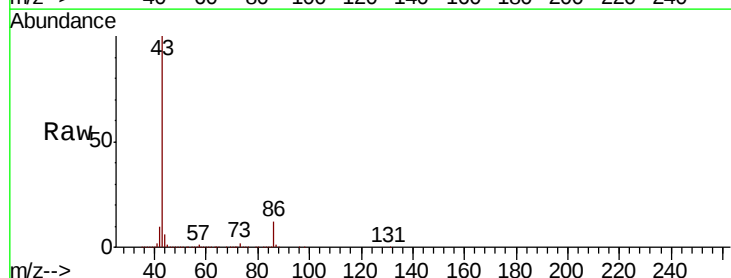
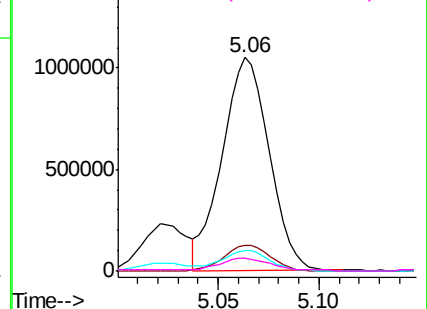
44 5.9 4.8 7.2

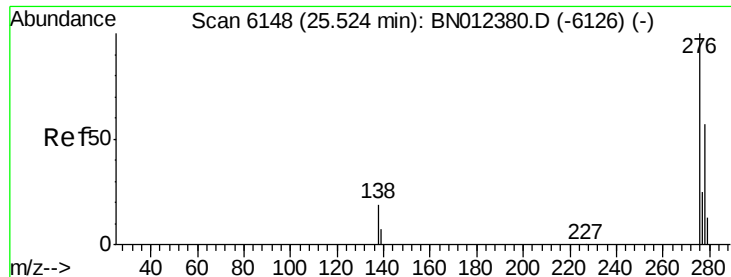
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 9.436 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

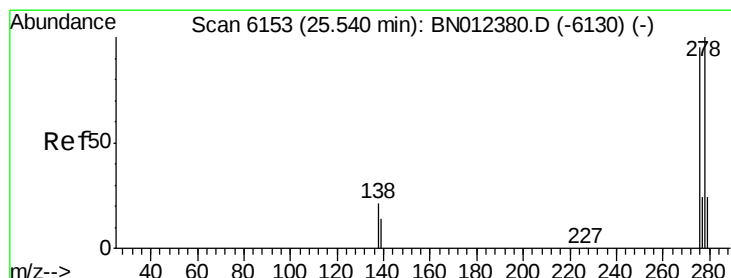
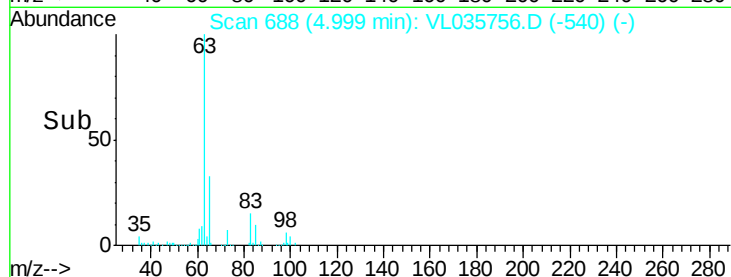
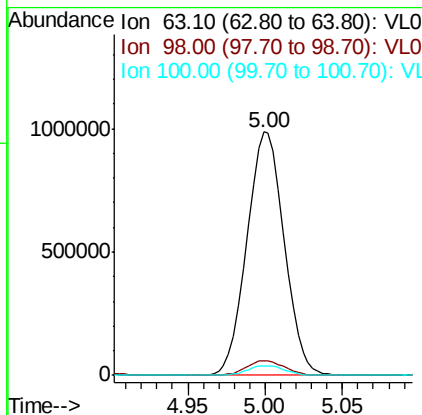
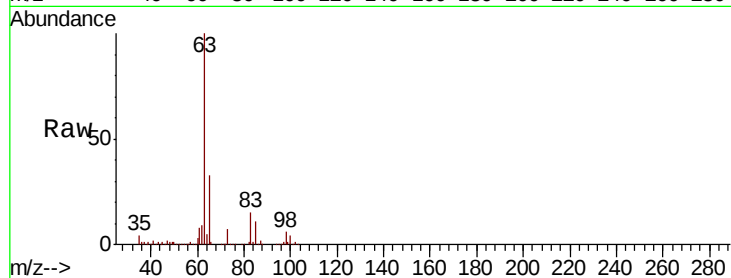
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	1657112
Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.3	9.8
100	3.9	2.0	5.8

Manual Integrations
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#25

Ethyl Acetate

Concen: 9.572 ppbv

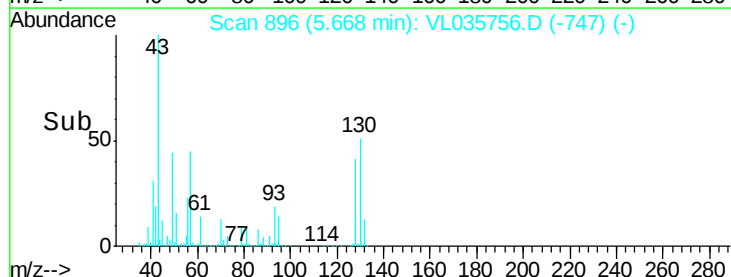
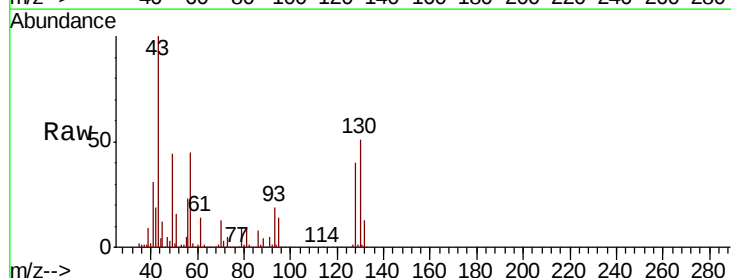
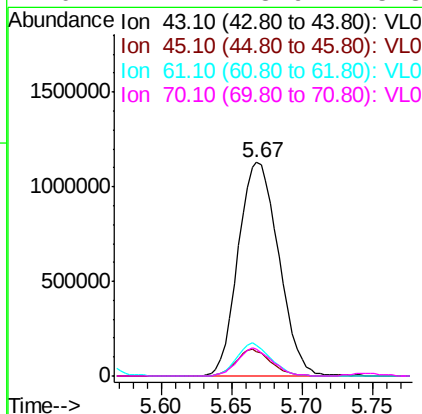
RT: 5.67 min Scan# 896

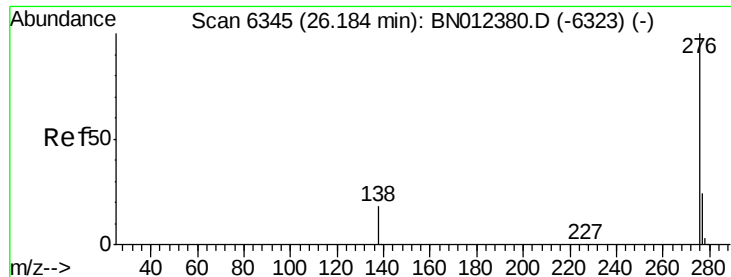
Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Tgt Ion:	43	Resp:	2267270
Ion	Ratio	Lower	Upper
43	100		
45	10.8	8.6	12.8
61	13.1	10.4	15.6
70	11.2	8.9	13.3





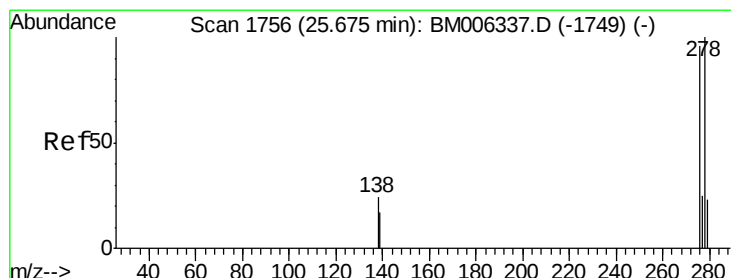
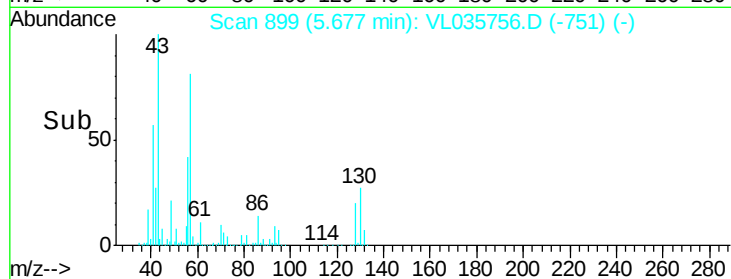
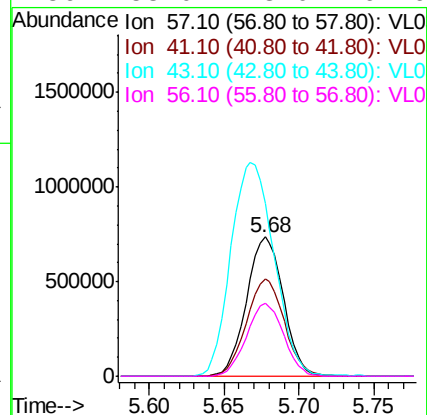
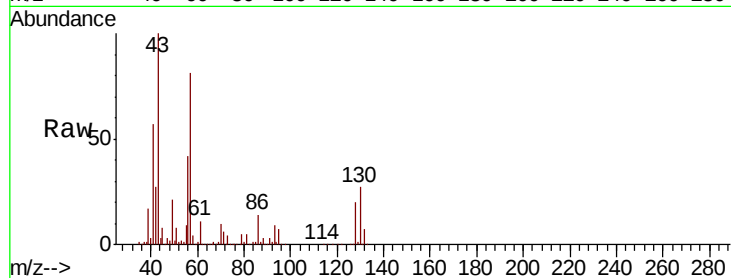
#26
Hexane
Concen: 9.681 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:	57	Resp:	1256594
Ion	Ratio	Lower	Upper
57	100		
41	73.1	57.9	86.9
43	181.2	143.8	215.6
56	53.0	43.0	64.6

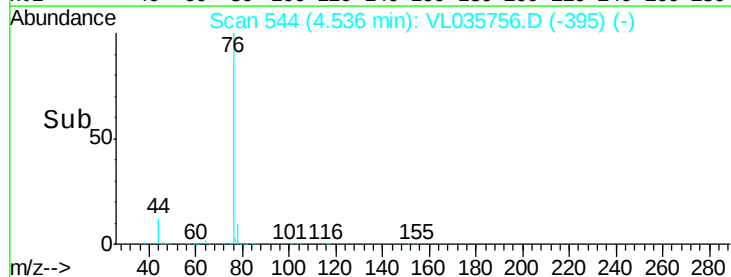
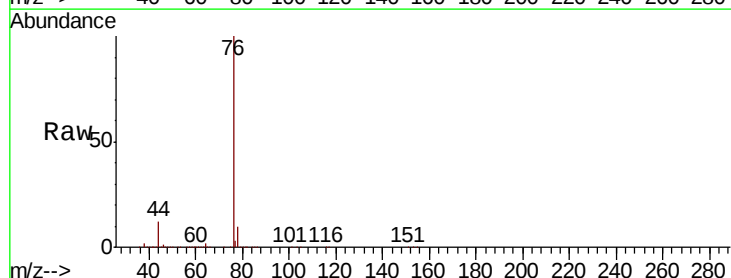
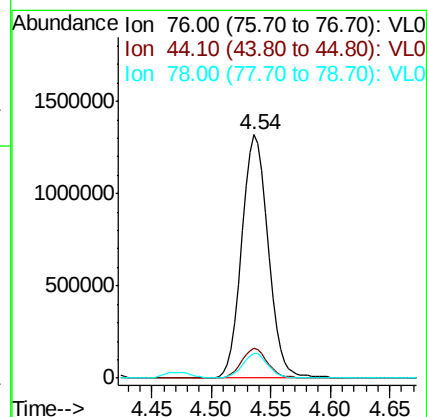
Manual Integrations
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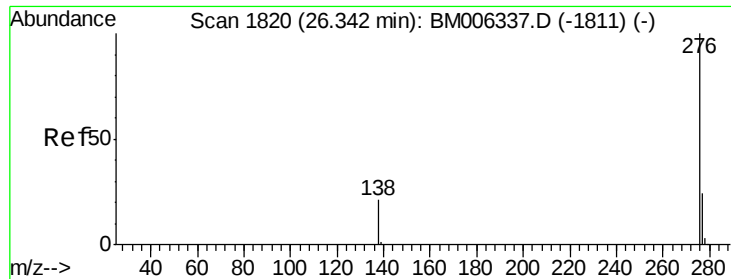
MMDadoda
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#27
Carbon Disulfide
Concen: 10.540 ppbv
RT: 4.54 min Scan# 544
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion:	76	Resp:	2039194
Ion	Ratio	Lower	Upper
76	100		
44	12.0	9.7	14.5
78	9.8	7.8	11.8





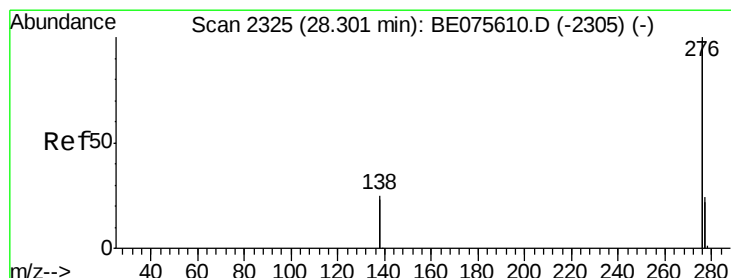
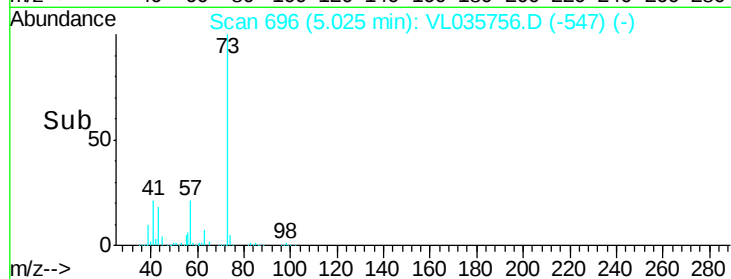
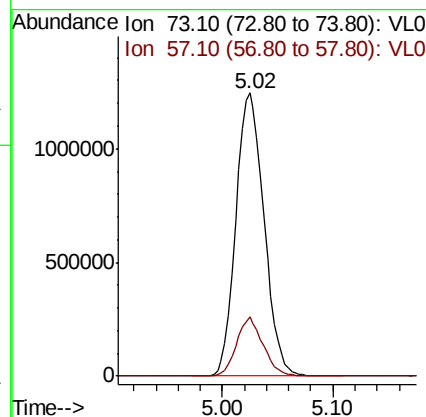
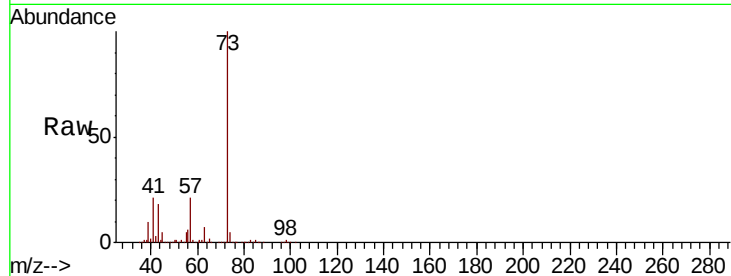
#28
Methvl tert-Butvl Ether
Concen: 10.706 ppbv
RT: 5.02 min Scan# 696
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 73 Resp: 2202888
Ion Ratio Lower Upper
73 100
57 19.7 15.6 23.4

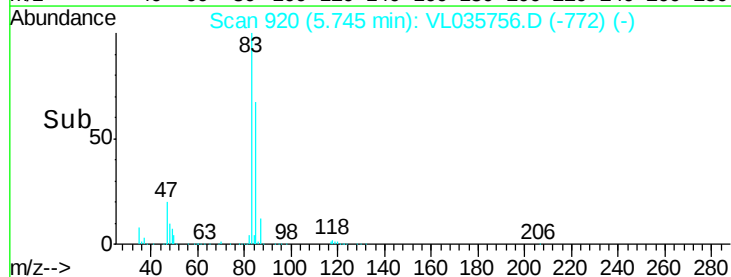
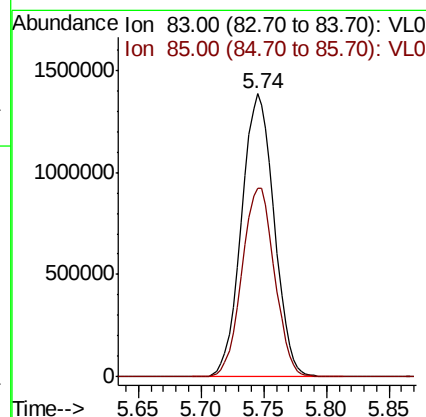
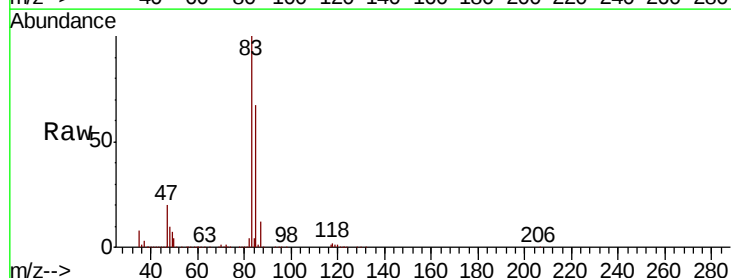
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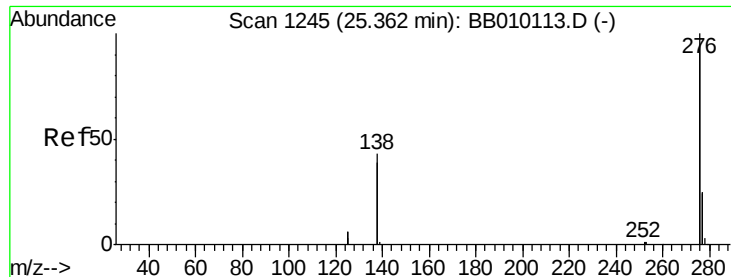
MMDadoda
10/14/2020 2:11:17 PM



#29
Chloroform
Concen: 9.495 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 83 Resp: 2502780
Ion Ratio Lower Upper
83 100
85 66.6 54.0 81.0





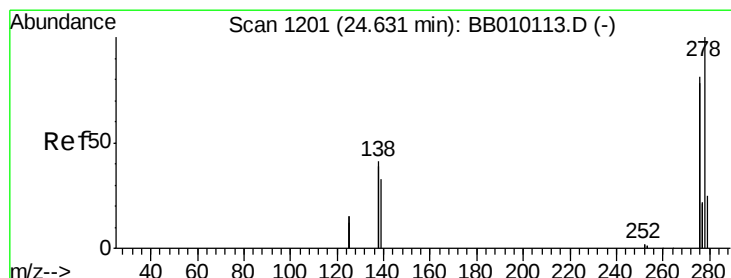
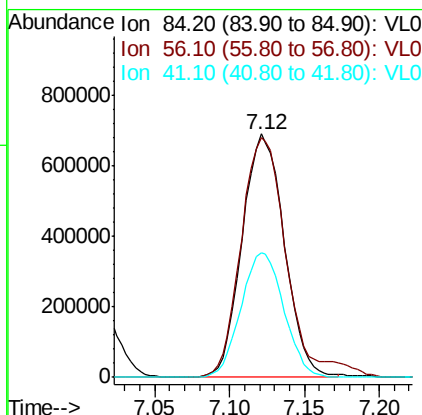
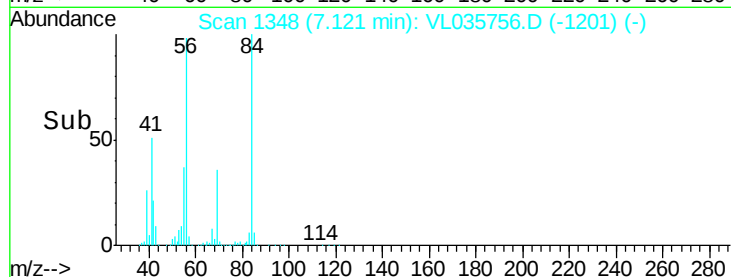
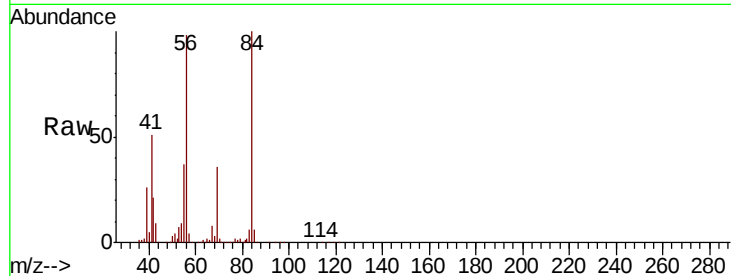
#30
Cyclohexane
Concen: 10.625 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. -0.03 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 84 Resp: 1360637
Ion Ratio Lower Upper
84 100
56 106.3 84.6 127.0
41 51.9 41.1 61.7

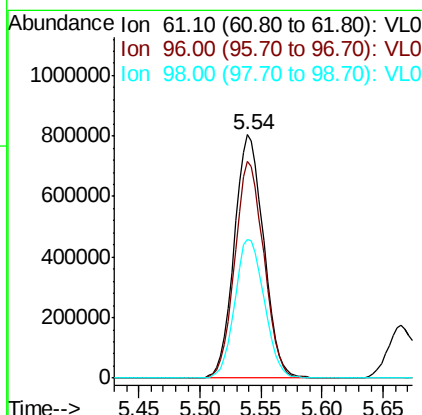
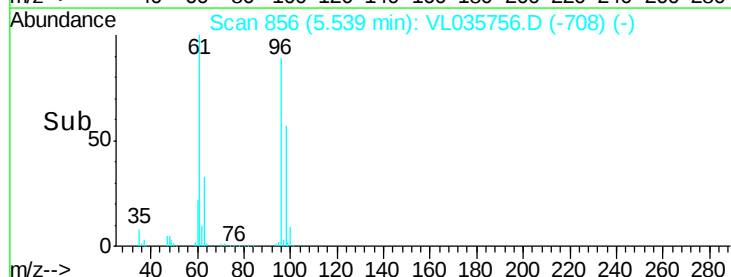
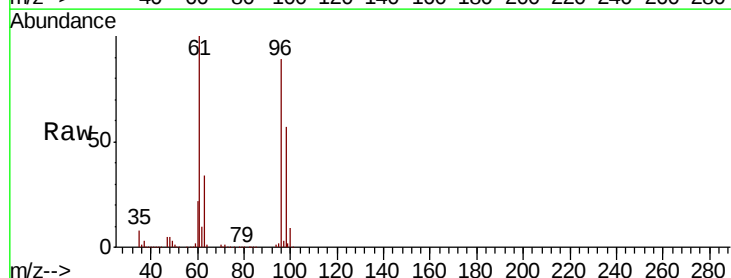
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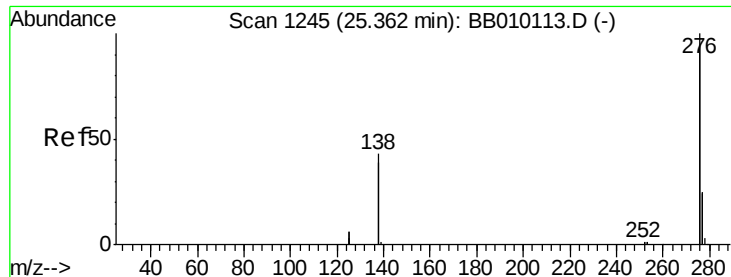
MMDadoda
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#31
cis-1,2-Dichloroethene
Concen: 10.715 ppbv
RT: 5.54 min Scan# 856
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 61 Resp: 1342598
Ion Ratio Lower Upper
61 100
96 89.2 71.4 107.2
98 57.2 47.4 71.2





#32

1,1,1-Trichloroethane

Concen: 10.510 ppbv

RT: 6.50 min Scan# 1156

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 2442038

Ion Ratio Lower Upper

97 100

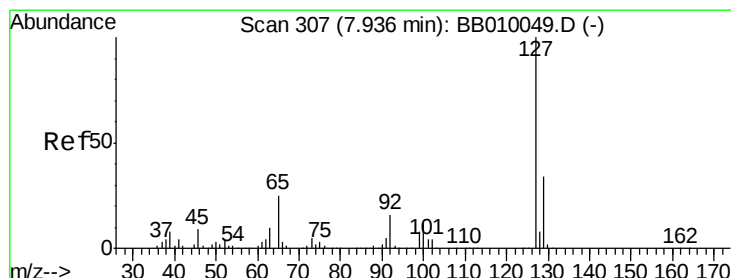
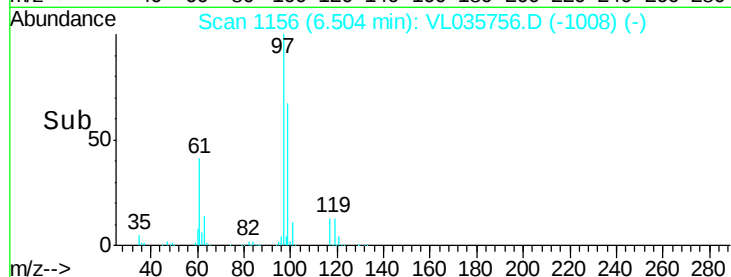
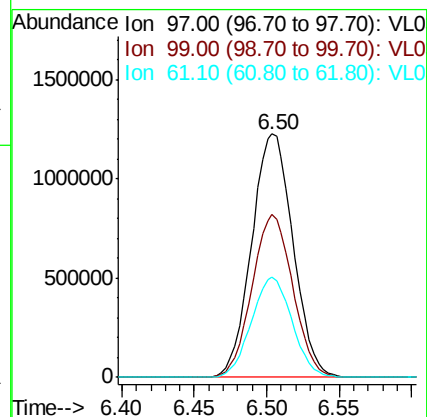
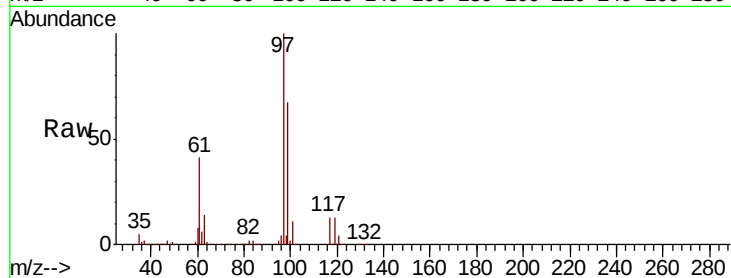
99 65.8 52.7 79.1

61 40.4 32.7 49.1

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#34

2-Butanone

Concen: 10.055 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.02 min

Lab File: VL035756.D

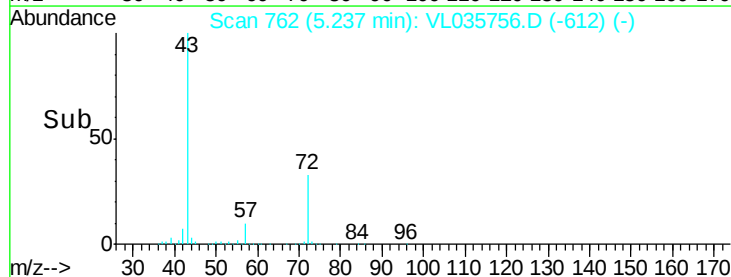
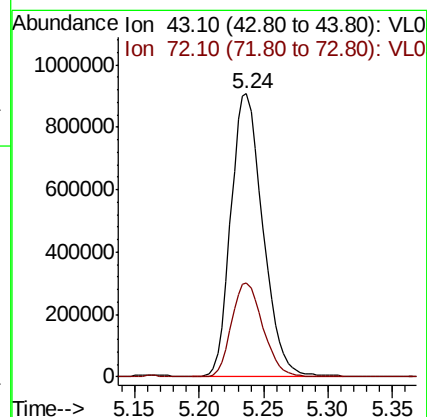
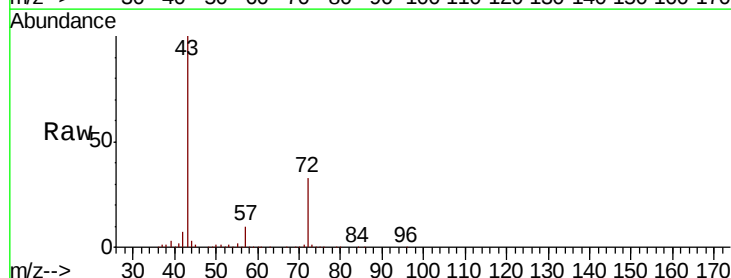
Acq: 12 Oct 2020 9:45 am

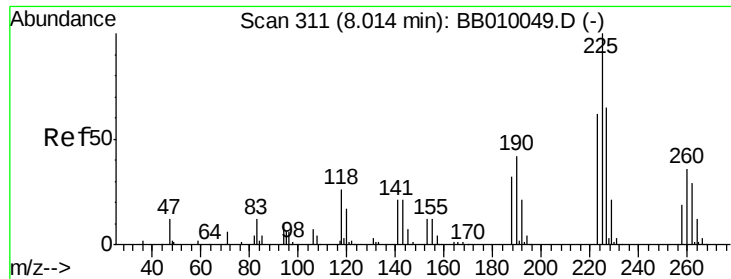
Tgt Ion: 43 Resp: 1560356

Ion Ratio Lower Upper

43 100

72 32.7 26.1 39.1





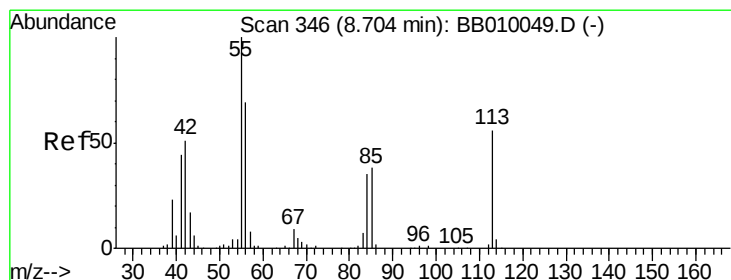
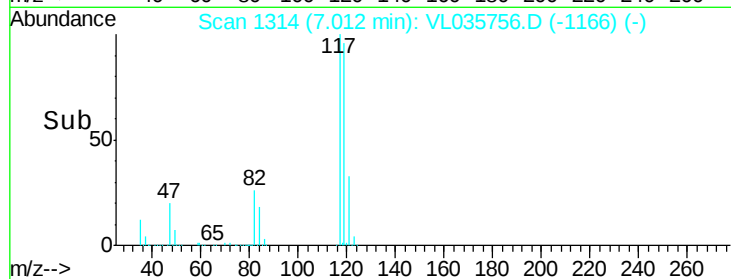
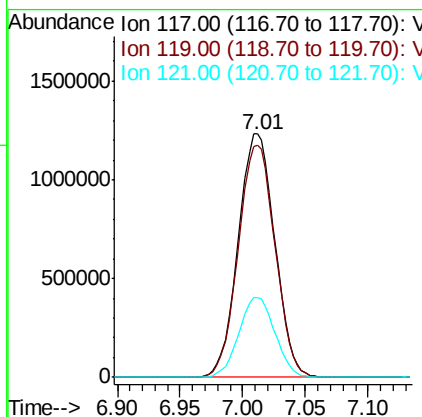
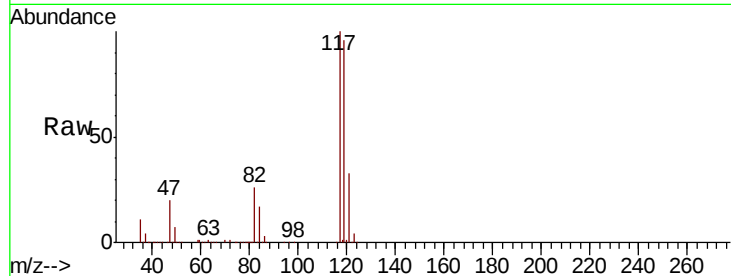
#35
Carbon Tetrachloride
Concen: 10.248 ppbv
RT: 7.01 min Scan# 1314
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.7	116.5
121	32.8	26.9	40.3

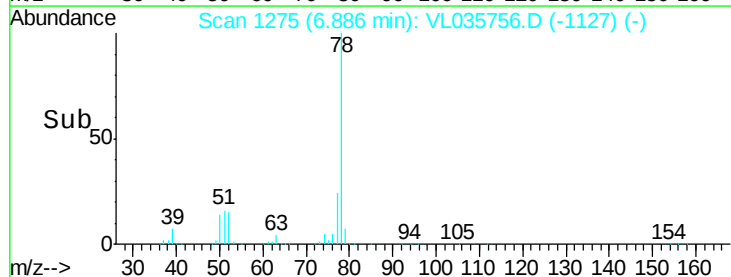
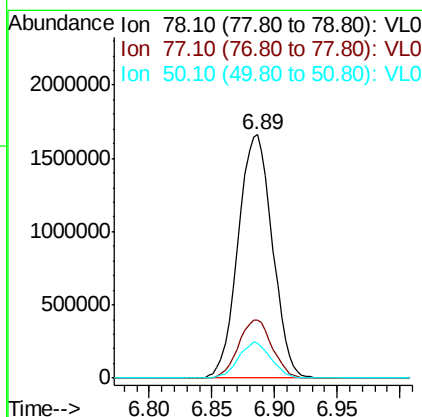
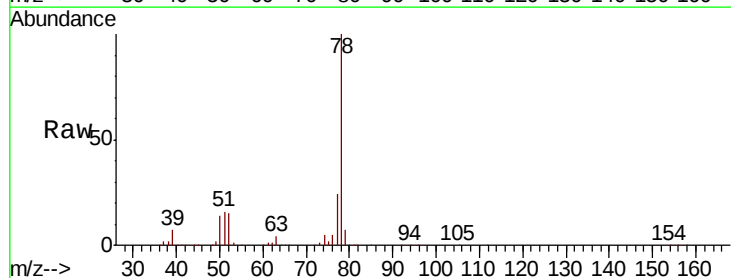
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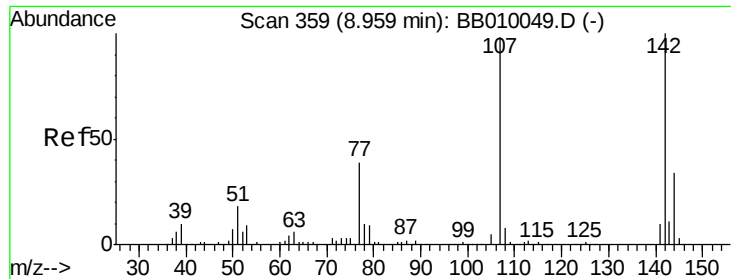
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#36
Benzene
Concen: 10.338 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.3	28.9
50	14.4	11.6	17.4





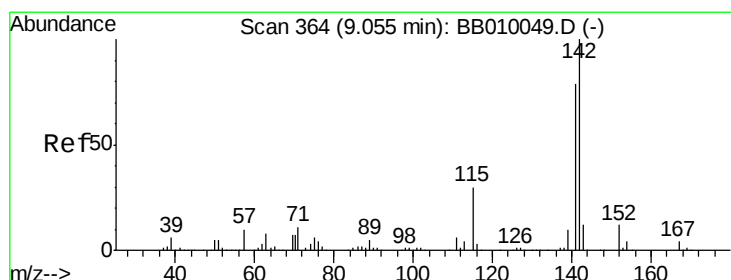
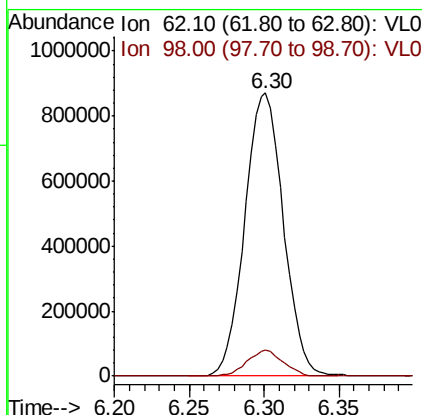
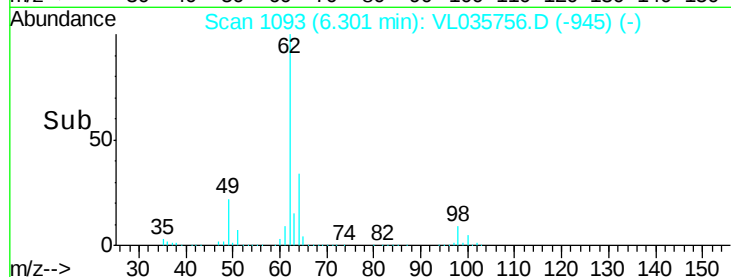
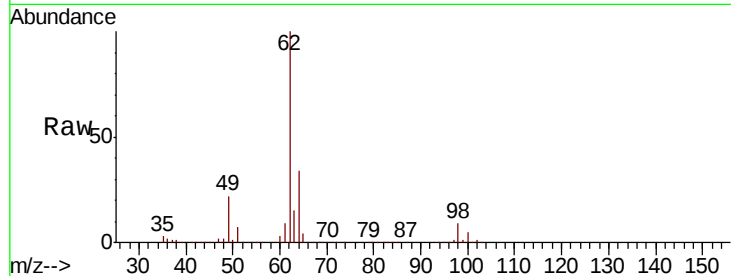
#37
 1,2-Dichloroethane
 Concen: 9.807 ppbv
 RT: 6.30 min Scan# 1093
 Delta R.T. -0.02 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1562583
 Ion Ratio Lower Upper
 62 100
 98 8.7 6.9 10.3

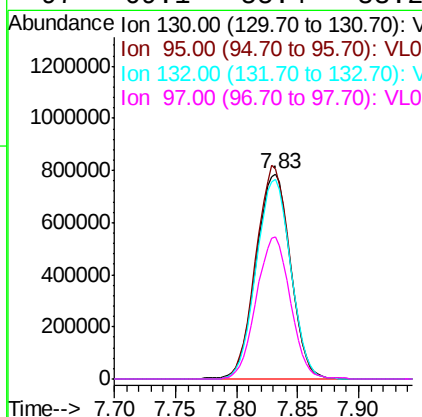
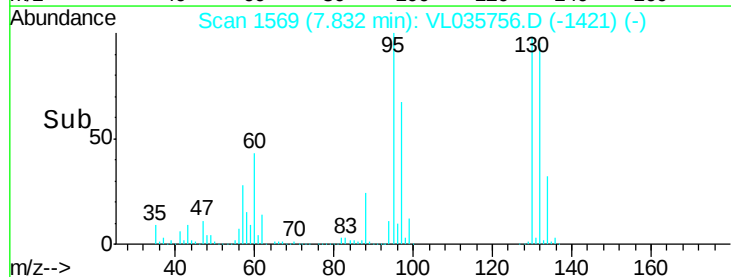
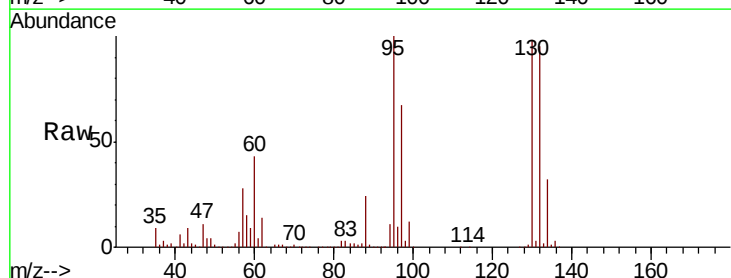
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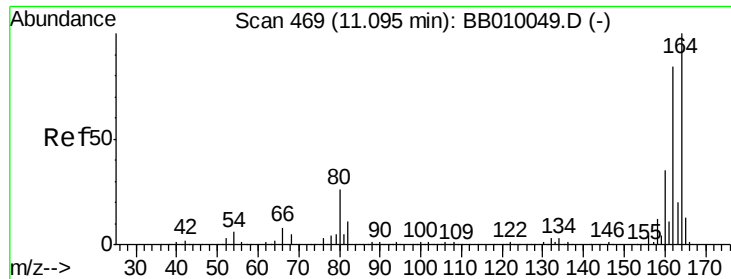
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#38
 Trichloroethene
 Concen: 10.123 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.02 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Tgt Ion: 130 Resp: 1543774
 Ion Ratio Lower Upper
 130 100
 95 102.5 82.4 123.6
 132 97.3 76.8 115.2
 97 69.1 55.4 83.2





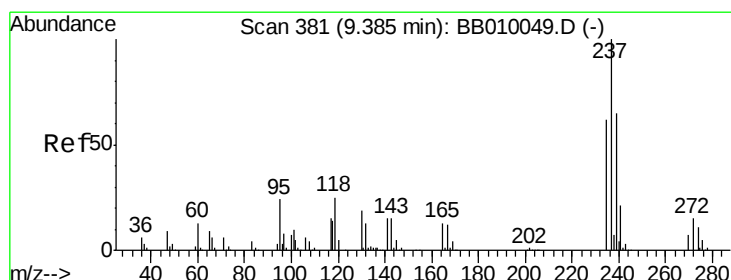
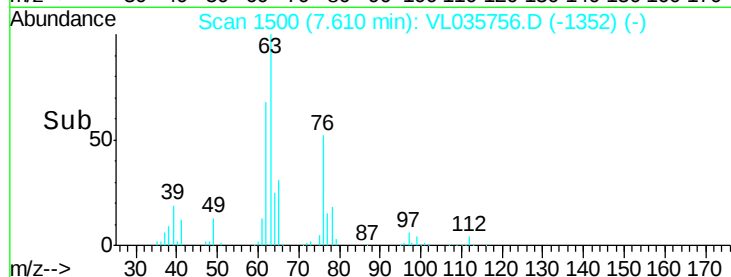
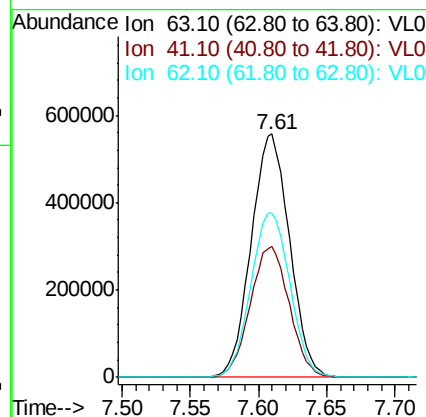
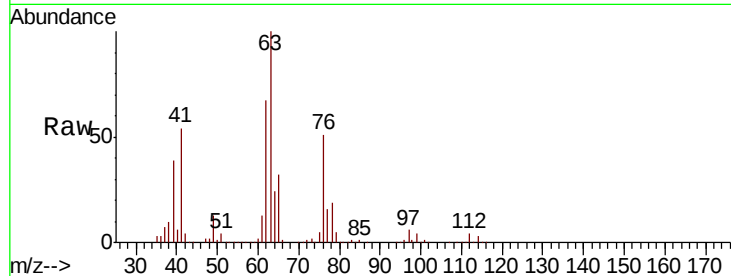
#39
 1,2-Dichloropropane
 Concen: 9.844 ppbv
 RT: 7.61 min Scan# 1500
 Delta R.T. -0.02 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	53.5	42.6	63.8
62	67.3	56.5	84.7

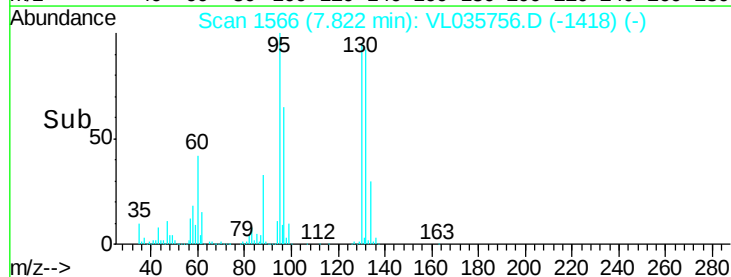
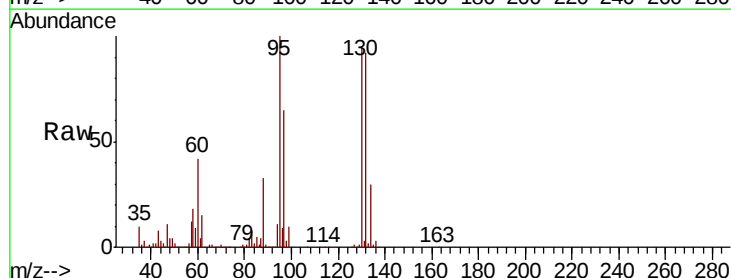
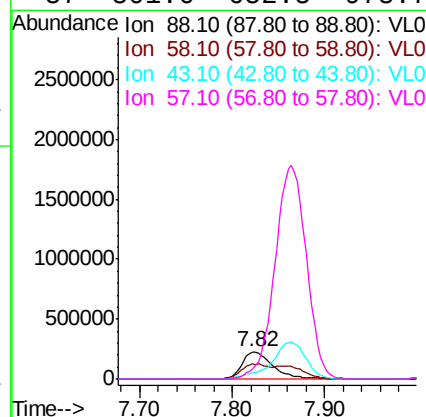
Manual Integrations
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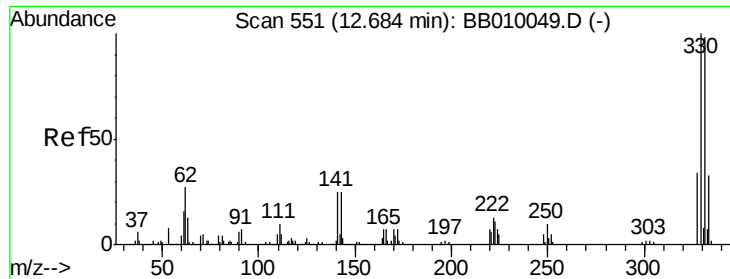
MMDadoda
 10/14/2020 2:11:17 PM



#40
 1,4-Dioxane
 Concen: 10.461 ppbv
 RT: 7.82 min Scan# 1566
 Delta R.T. -0.02 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Tgt Ion	Ratio	Lower	Upper
88	100		
58	93.8	76.2	114.4
43	151.8	123.4	185.2
57	801.6	652.5	978.7





#41

Tetrahydrofuran

Concen: 11.279 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 42 Resp: 881779

Ion Ratio Lower Upper

42 100

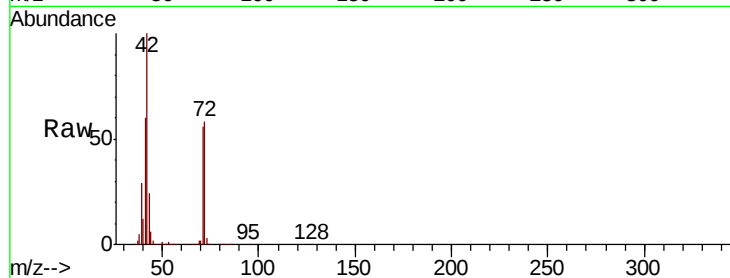
72 57.8 46.2 69.4

71 55.2 44.2 66.4

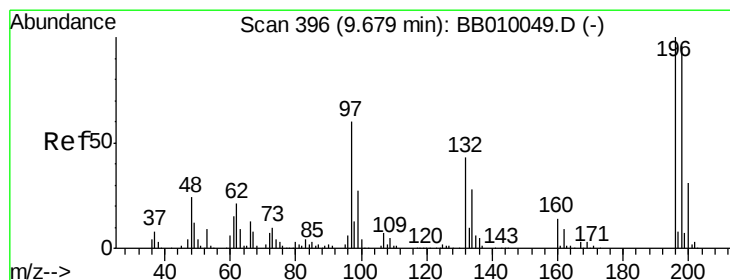
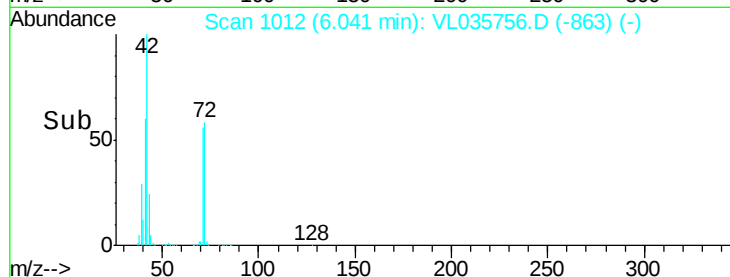
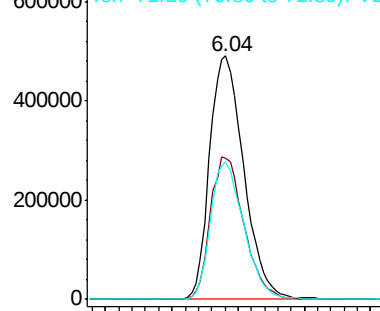
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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.197 ppbv

RT: 7.79 min Scan# 1555

Delta R.T. -0.03 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

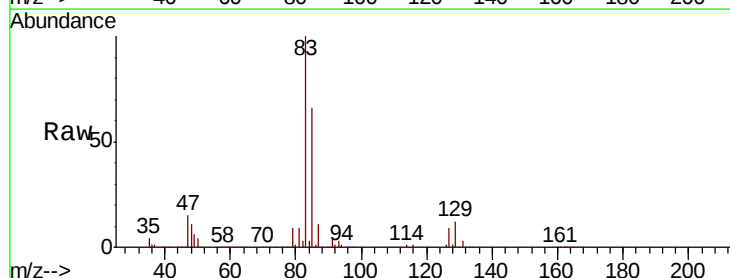
Tgt Ion: 83 Resp: 2617249

Ion Ratio Lower Upper

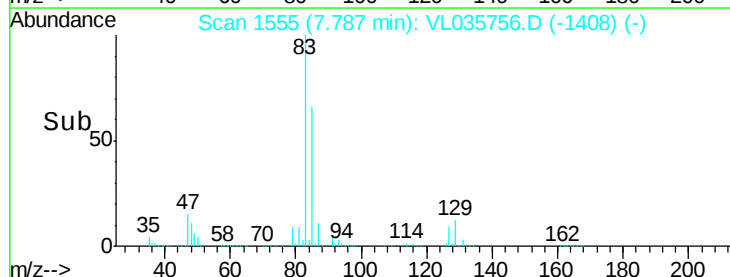
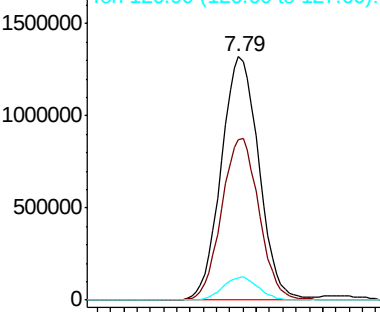
83 100

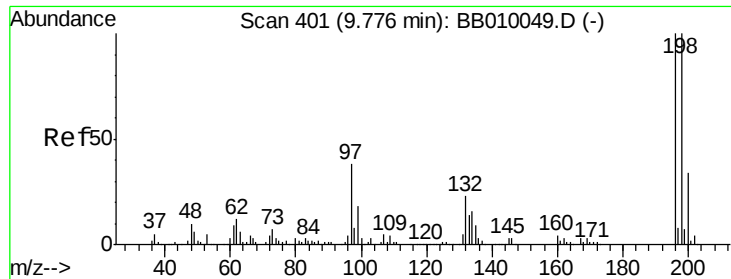
85 66.0 53.4 80.0

127 9.3 7.8 11.6



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





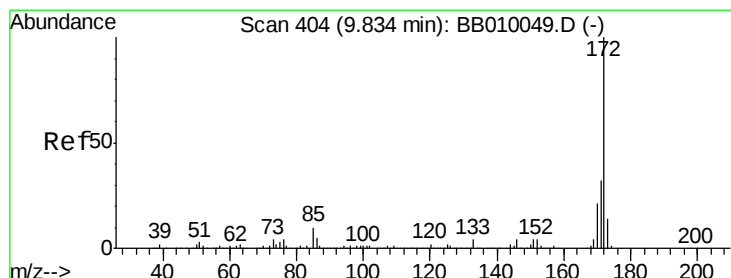
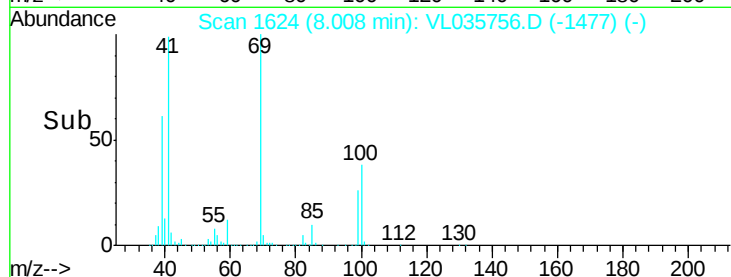
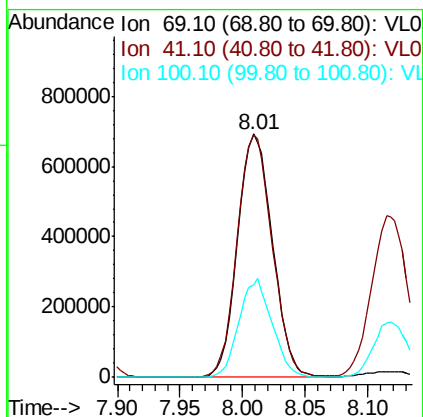
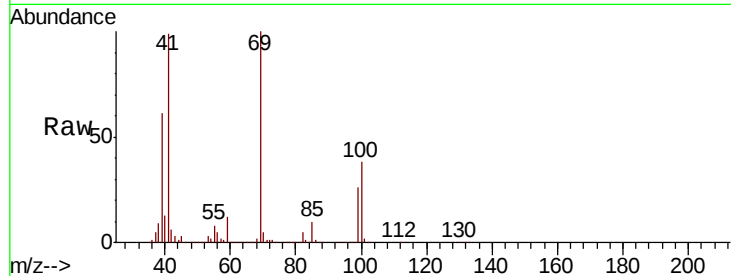
#43
Methyl Methacrylate
Concen: 11.005 ppbv
RT: 8.01 min Scan# 1624
Delta R.T. -0.03 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1338013
Ion Ratio Lower Upper
69 100
41 100.0 79.8 119.6
100 38.5 30.6 46.0

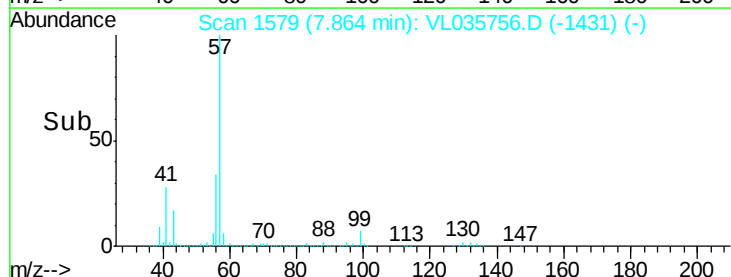
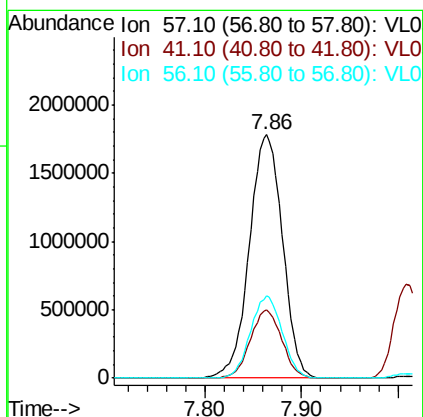
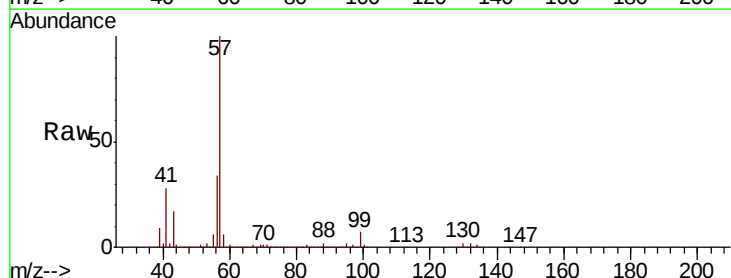
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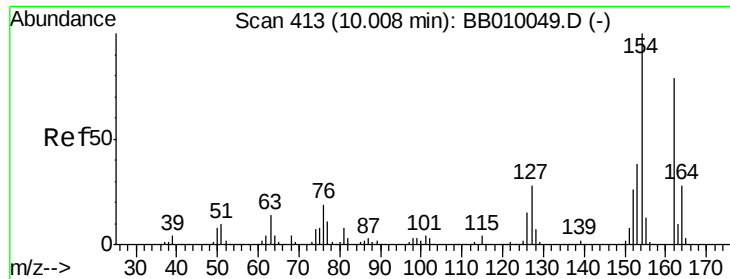
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.678 ppbv
RT: 7.86 min Scan# 1579
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 57 Resp: 4245724
Ion Ratio Lower Upper
57 100
41 26.7 21.2 31.8
56 32.2 25.8 38.8





#45

t-1,3-Dichloropropene

Concen: 12.259 ppbv

RT: 9.28 min Scan# 2018

Delta R.T. -0.03 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1504817

Ion Ratio Lower Upper

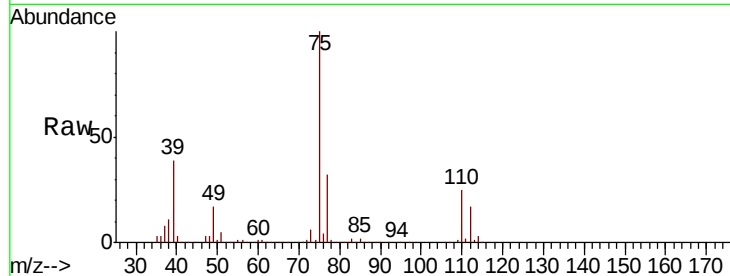
75 100

77 32.0 25.9 38.9

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

800000

600000

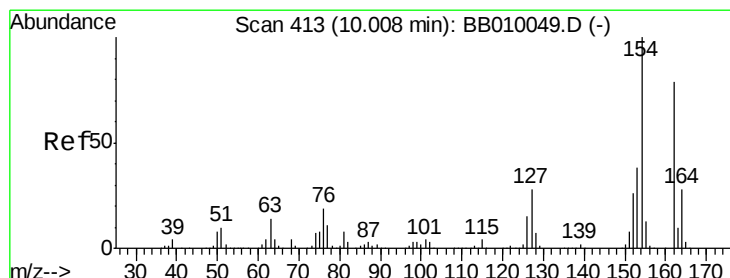
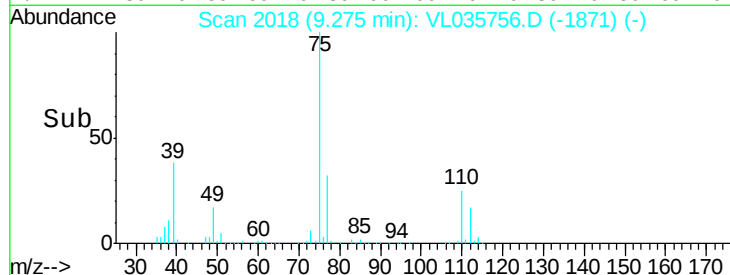
400000

200000

0

9.20 9.25 9.30 9.35

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.788 ppbv

RT: 8.70 min Scan# 1839

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

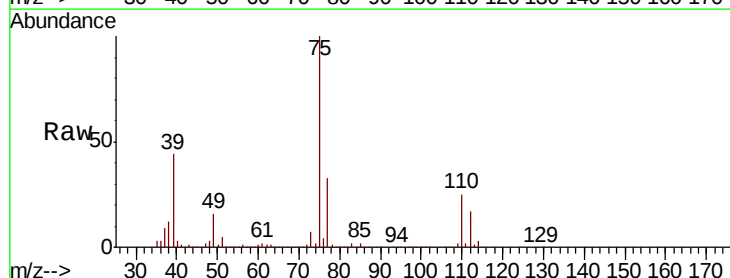
Tgt Ion: 75 Resp: 1783729

Ion Ratio Lower Upper

75 100

39 43.9 33.9 50.9

77 33.0 27.4 41.0



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

1200000

1000000

800000

600000

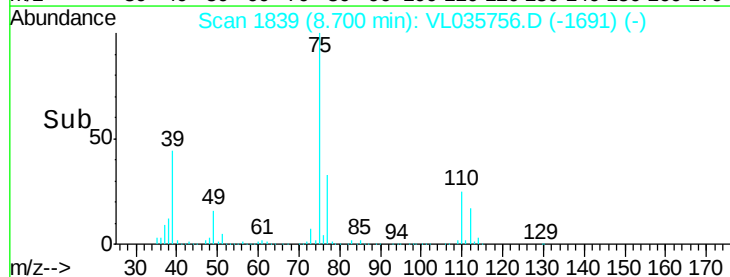
400000

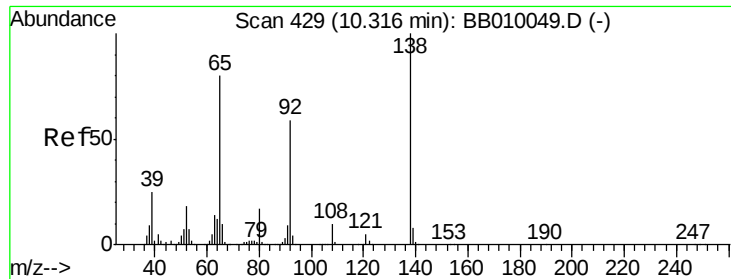
200000

0

8.60 8.65 8.70 8.75

Time-->





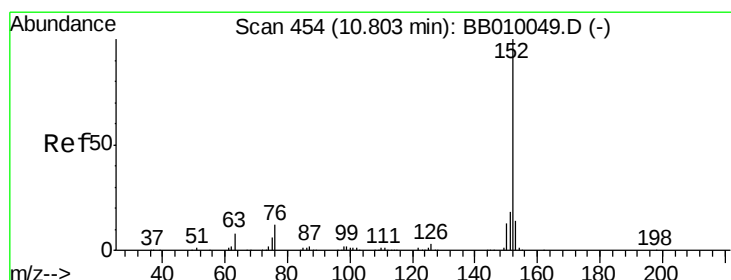
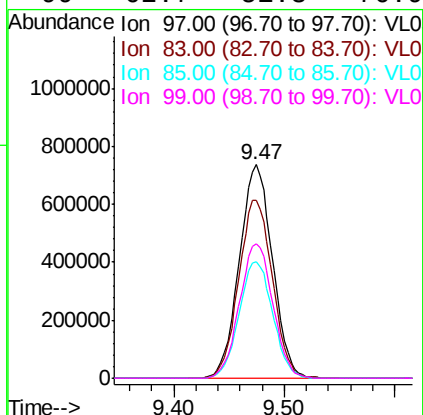
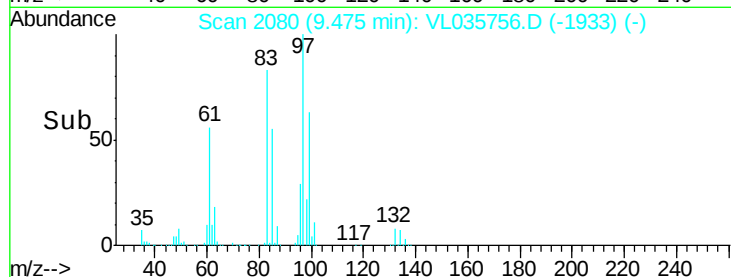
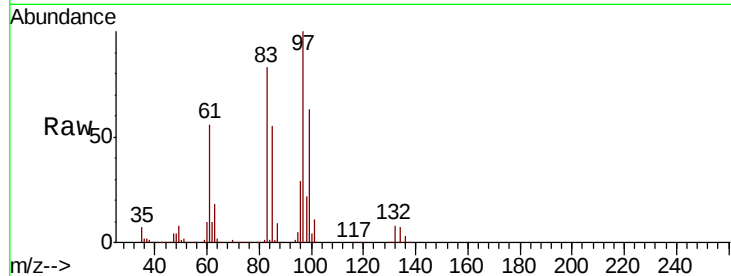
#47
 1,1,2-Trichloroethane
 Concen: 9.639 ppbv
 RT: 9.47 min Scan# 2080
 Delta R.T. -0.03 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	83.5	67.1	100.7
85	54.5	43.9	65.9
99	62.7	51.3	76.9

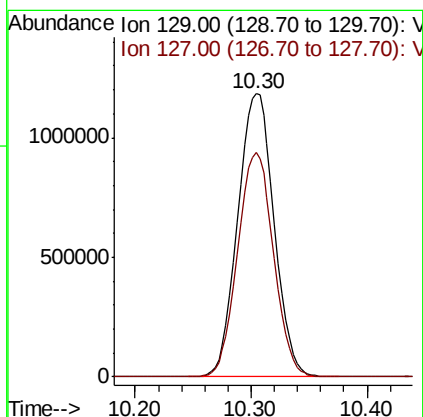
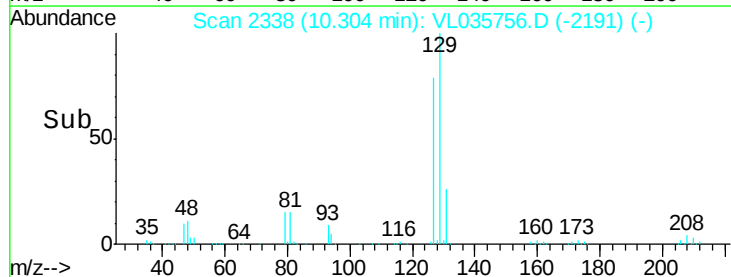
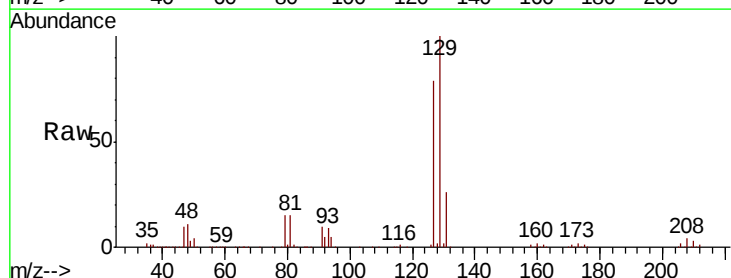
Manual Integrations
 APPROVED

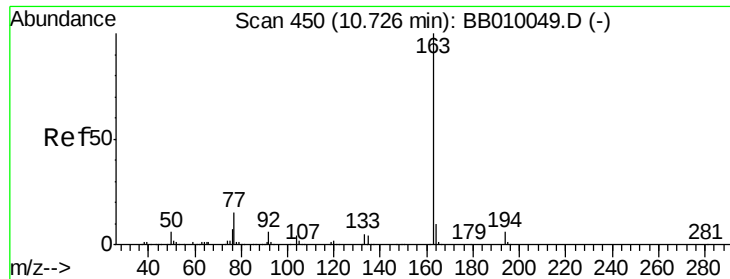
MMDadoda
 10/14/2020 2:11:17 PM



#48
 Dibromochloromethane
 Concen: 10.652 ppbv
 RT: 10.30 min Scan# 2338
 Delta R.T. -0.03 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.4	118.1





#49

Bromoform

Concen: 11.167 ppbv

RT: 13.05 min Scan# 3191

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 2288682

Ion Ratio Lower Upper

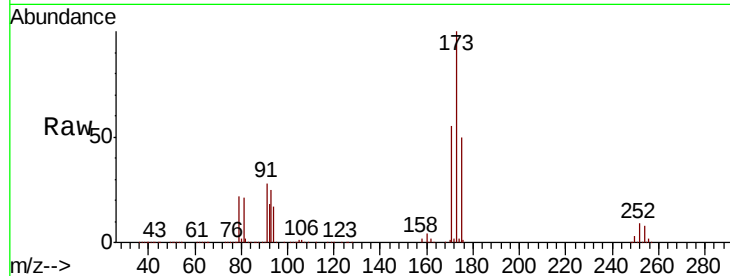
173 100

175 50.1 39.8 59.6

171 53.3 42.8 64.2

Manual Integrations
APPROVED

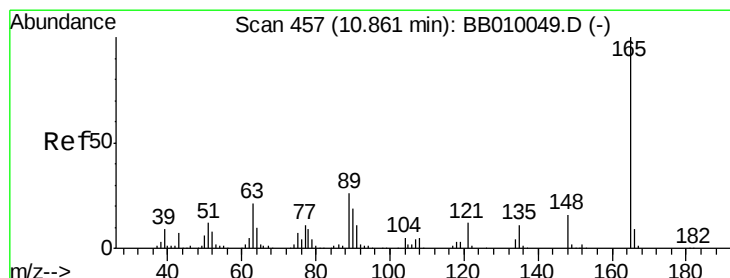
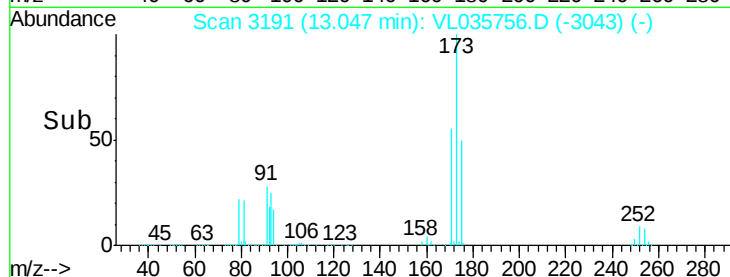
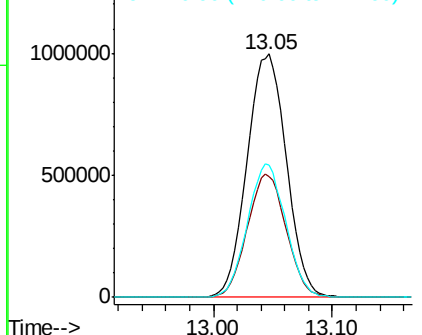
MMDadoda
10/14/2020 2:11:17 PM



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: 10.192 ppbv

RT: 8.74 min Scan# 1850

Delta R.T. -0.02 min

Lab File: VL035756.D

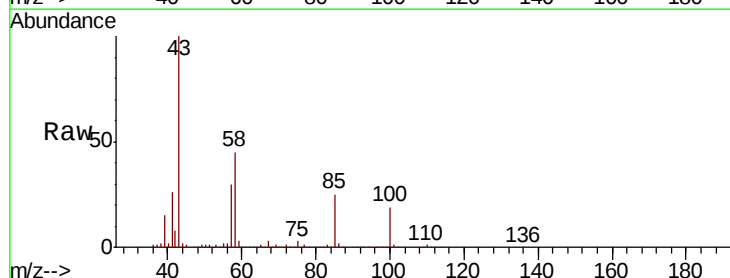
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 43 Resp: 2310130

Ion Ratio Lower Upper

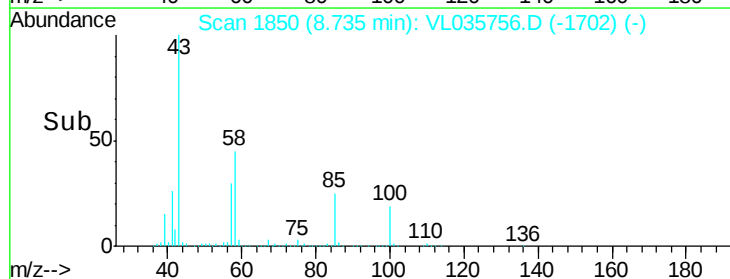
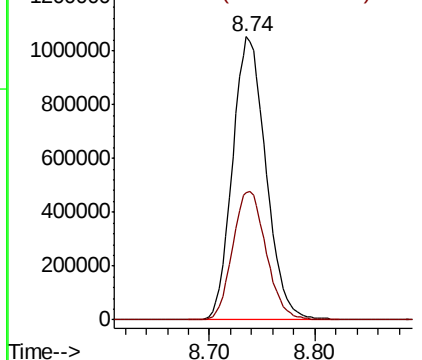
43 100

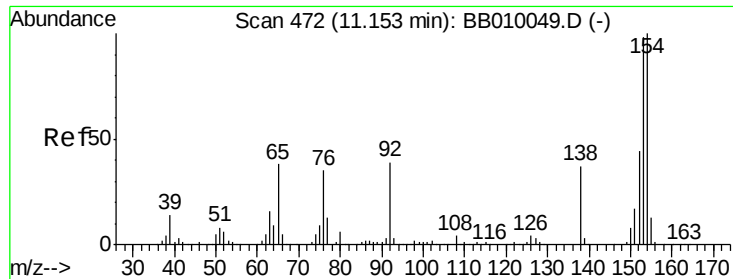
58 45.7 36.6 54.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





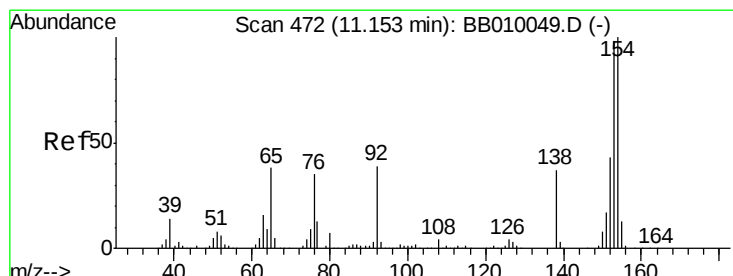
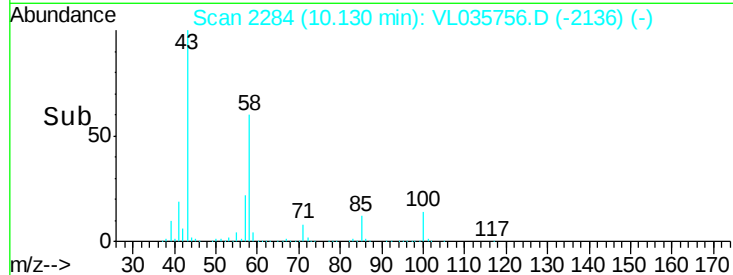
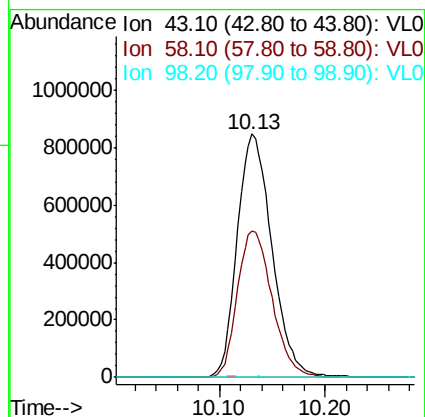
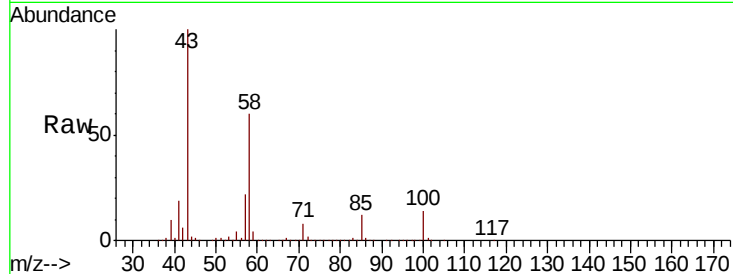
#51
2-Hexanone
Concen: 10.621 ppbv
RT: 10.13 min Scan# 2284
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1939594
Ion Ratio Lower Upper
43 100
58 60.7 48.7 73.1
98 0.7 0.7 1.1#

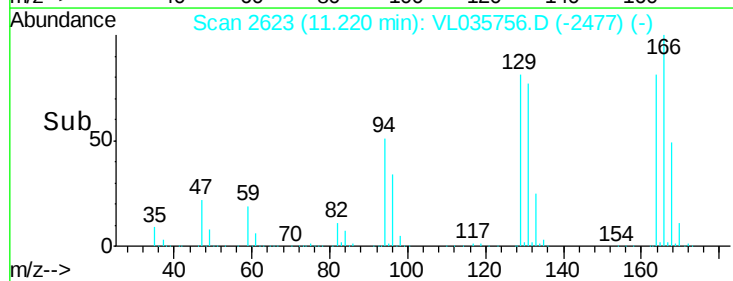
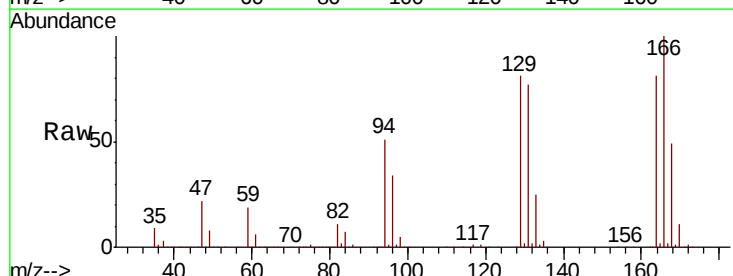
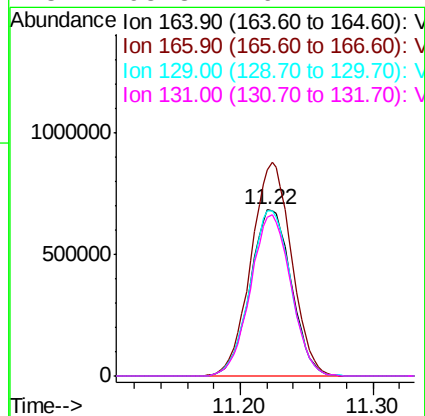
Manual Integrations
APPROVED

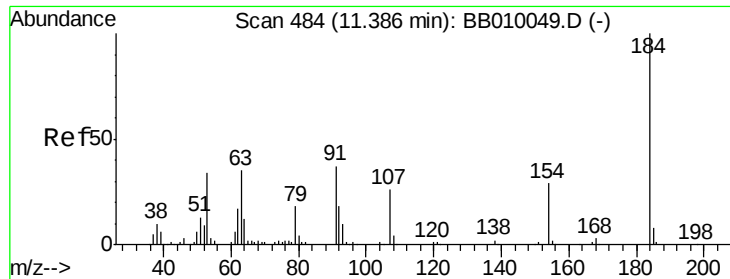
MMDadoda
10/14/2020 2:11:17 PM



#52
Tetrachloroethene
Concen: 10.017 ppbv
RT: 11.22 min Scan# 2623
Delta R.T. -0.03 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 164 Resp: 1472615
Ion Ratio Lower Upper
164 100
166 123.8 98.7 148.1
129 99.7 78.4 117.6
131 95.3 76.2 114.2





#53

Toluene

Concen: 10.875 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3920420

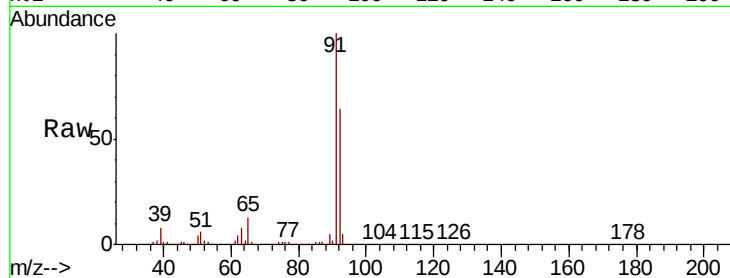
Ion Ratio Lower Upper

91 100

92 62.4 50.0 75.0

Manual Integrations
APPROVED

MMDadoda
10/14/2020 2:11:17 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.81

2000000

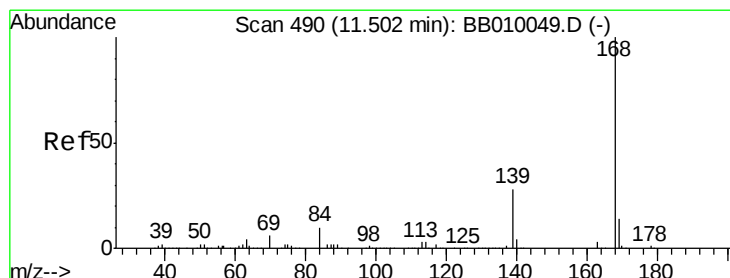
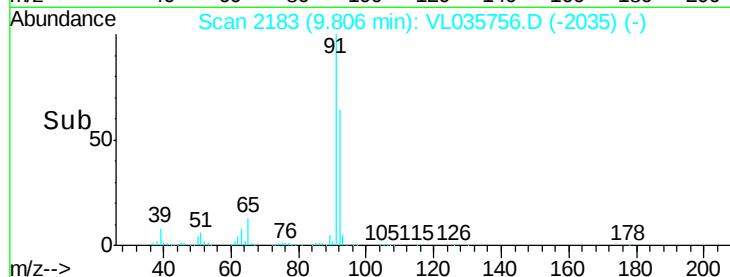
1500000

1000000

500000

0

Time-->



#54

1,2-Dibromoethane

Concen: 10.028 ppbv

RT: 10.61 min Scan# 2433

Delta R.T. -0.03 min

Lab File: VL035756.D

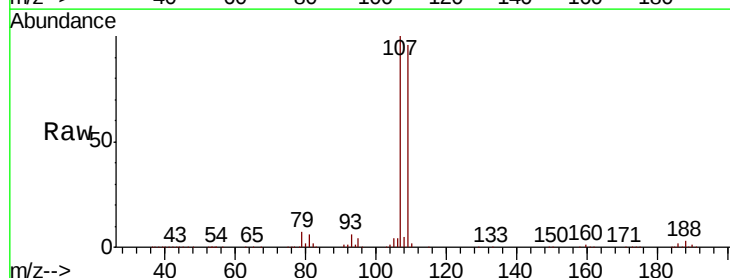
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 107 Resp: 2383202

Ion Ratio Lower Upper

107 100

109 96.2 76.0 114.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.61

1200000

1000000

800000

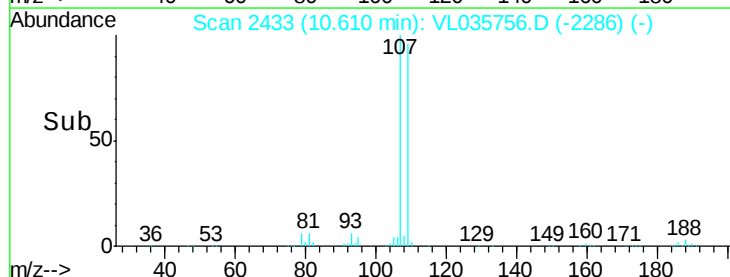
600000

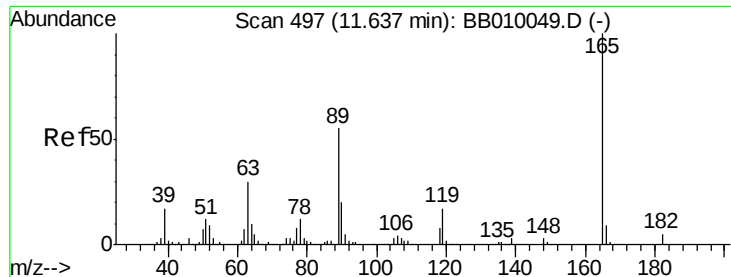
400000

200000

0

Time-->





#56

1,1,1,2-Tetrachloroethane

Concen: 10.350 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. -0.03 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:131 Resp: 1988573

Ion Ratio Lower Upper

131 100

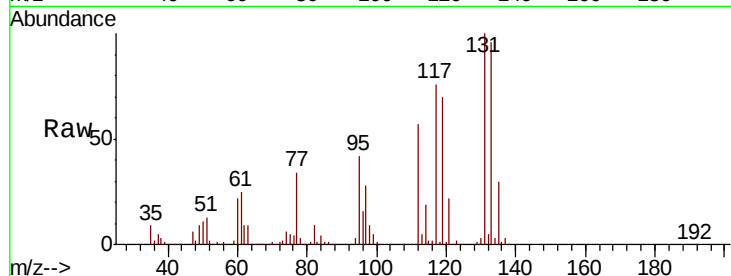
133 95.2 76.2 114.4

119 61.0 52.4 78.6

Manual Integrations
APPROVED

MMDadoda

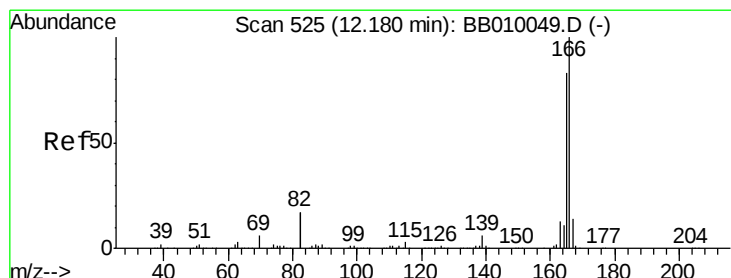
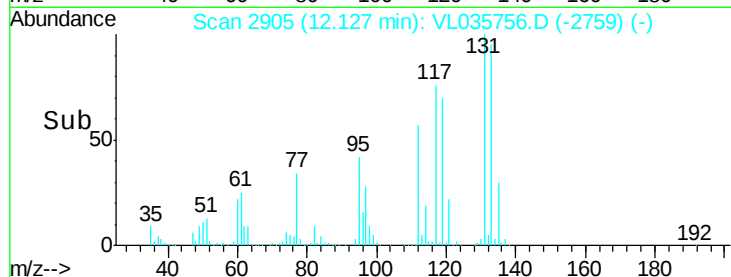
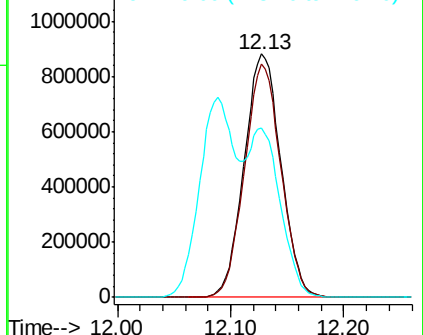
10/14/2020 2:11:17 PM



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: 9.484 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.03 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

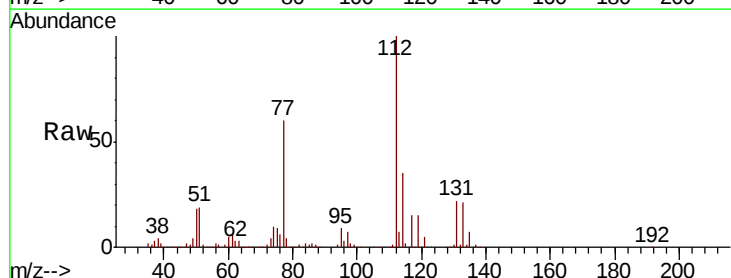
Tgt Ion:112 Resp: 3282347

Ion Ratio Lower Upper

112 100

77 60.1 48.2 72.2

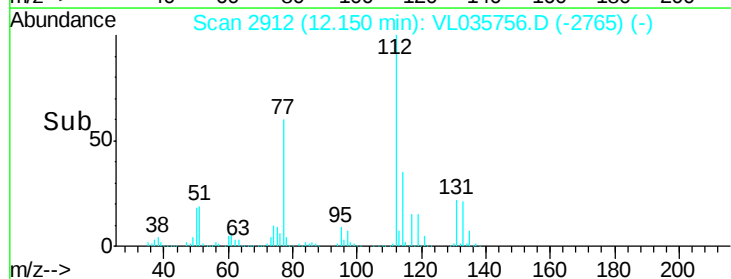
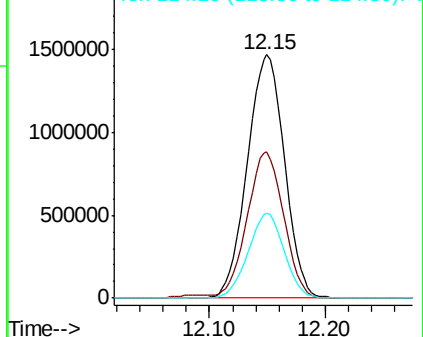
114 35.1 31.9 39.1

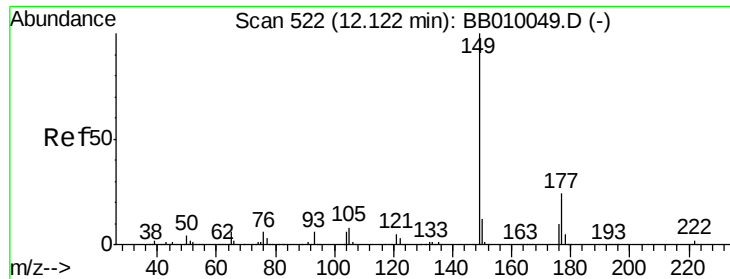


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V





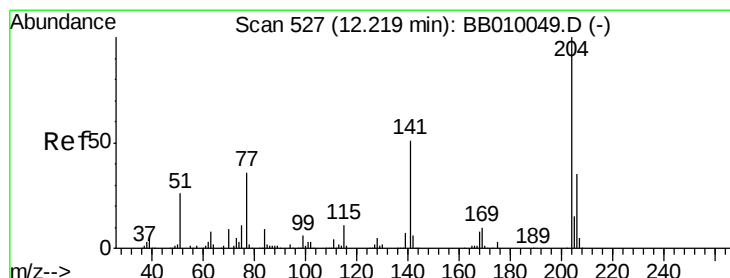
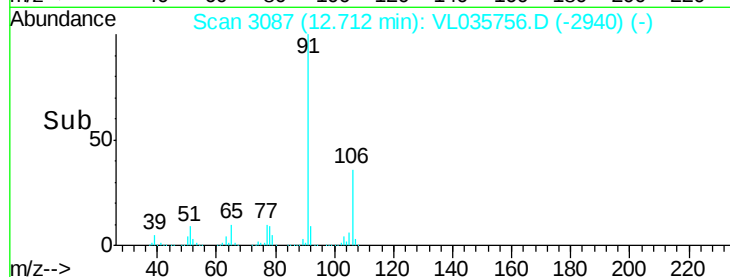
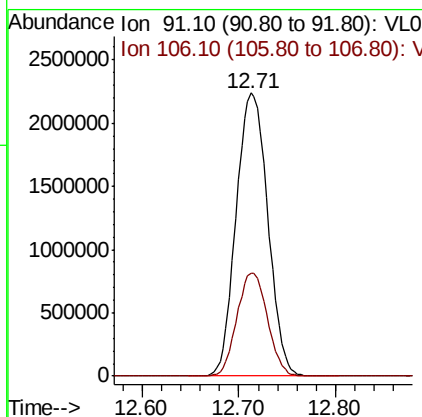
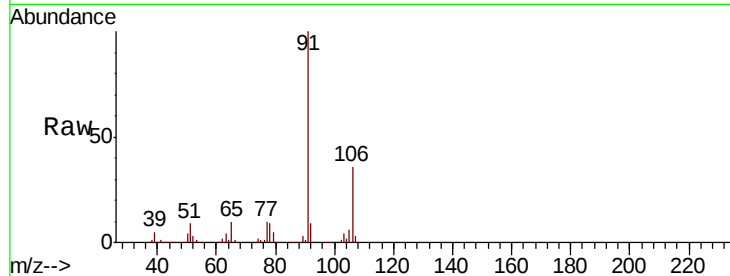
#58
Ethyl Benzene
Concen: 11.077 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.03 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5094197
Ion Ratio Lower Upper
91 100
106 36.4 29.7 44.5

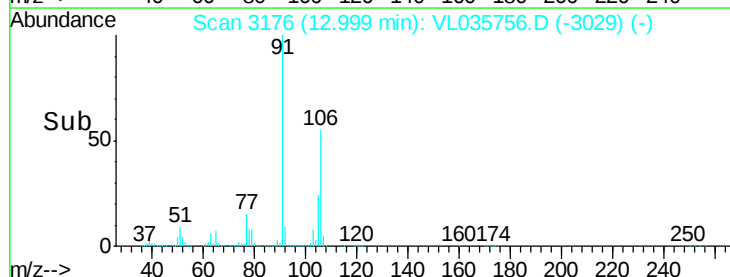
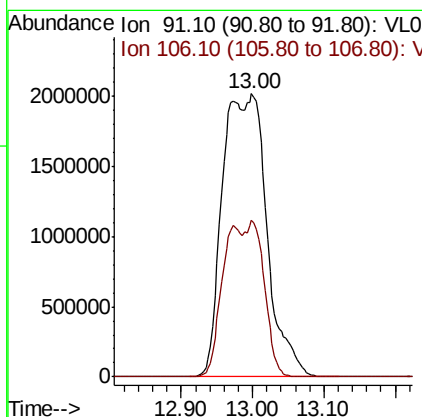
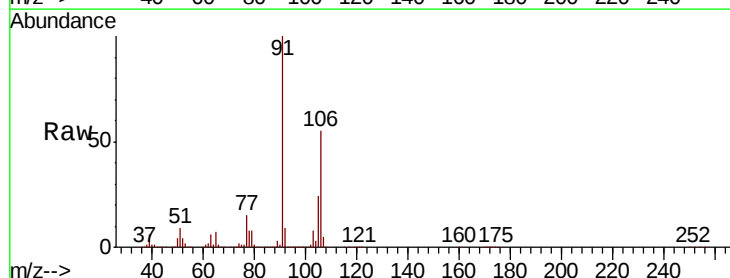
Manual Integrations
APPROVED

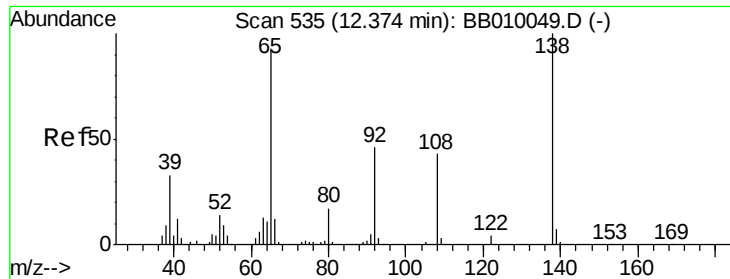
MMDadoda
10/14/2020 2:11:17 PM



#59
m/p-Xylene
Concen: 21.625 ppbv m
RT: 13.00 min Scan# 3176
Delta R.T. -0.03 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 91 Resp: 8685584
Ion Ratio Lower Upper
91 100
106 49.8 41.4 62.0





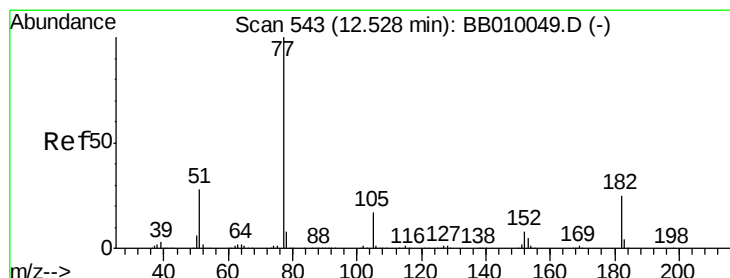
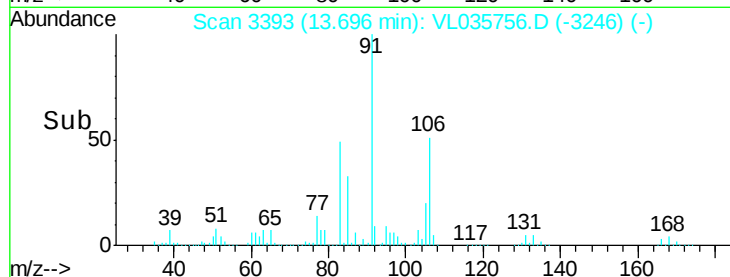
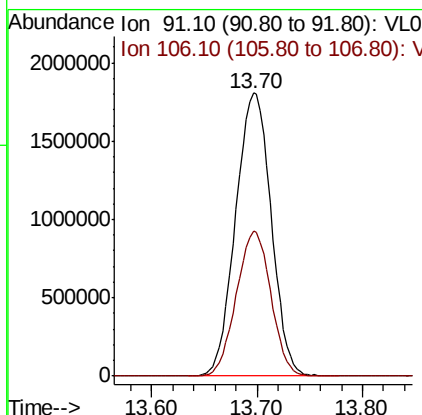
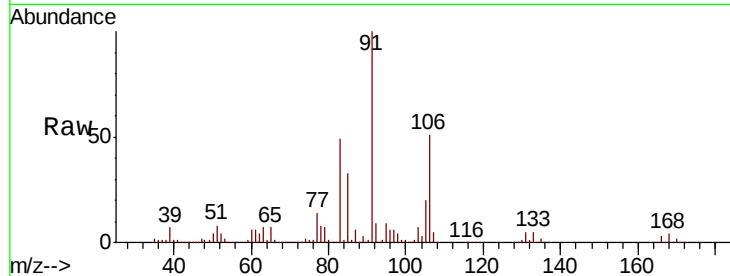
#60
o-Xylene
Concen: 10.425 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.03 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4235415
Ion Ratio Lower Upper
91 100
106 49.8 25.0 75.0

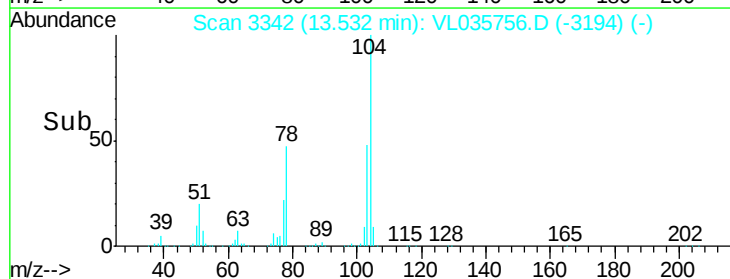
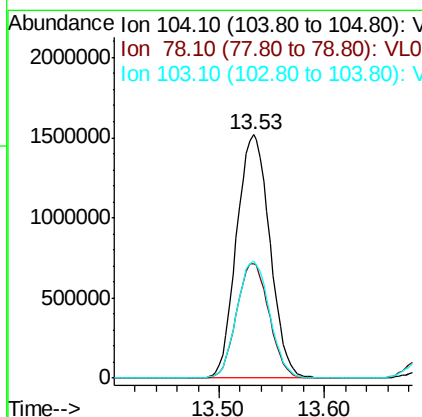
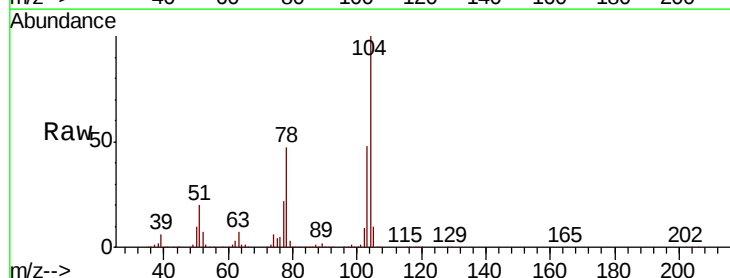
Manual Integrations
APPROVED

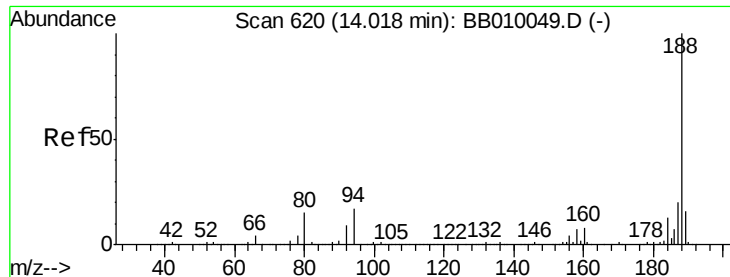
MMDadoda
10/14/2020 2:11:17 PM



#61
Styrene
Concen: 11.867 ppbv
RT: 13.53 min Scan# 3342
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 104 Resp: 3333714
Ion Ratio Lower Upper
104 100
78 46.1 37.2 55.8
103 47.5 38.2 57.2





#62

Isopropylbenzene

Concen: 10.115 ppbv

RT: 14.67 min Scan# 3697

Delta R.T. -0.03 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 6374310

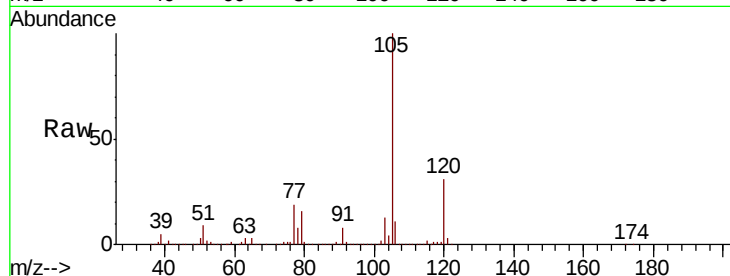
Ion Ratio Lower Upper

105 100

120 29.9 24.1 36.1

Manual Integrations
APPROVED

MMDadoda
10/14/2020 2:11:17 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

3000000

2500000

2000000

1500000

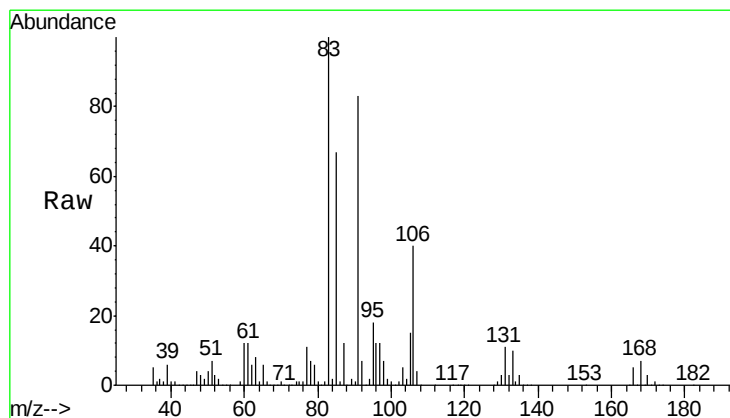
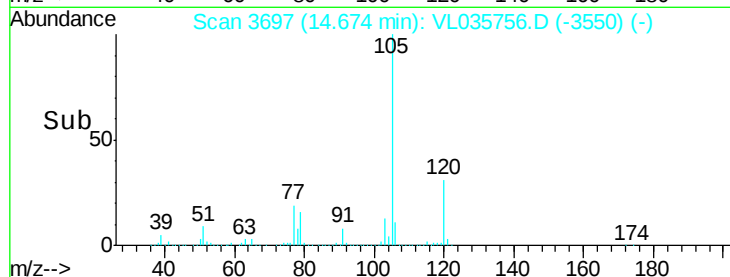
1000000

500000

0

14.60 14.70

Time-->



#63

1,1,2,2-Tetrachloroethane

Concen: 9.347 ppbv

RT: 13.68 min Scan# 3388

Delta R.T. -0.03 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

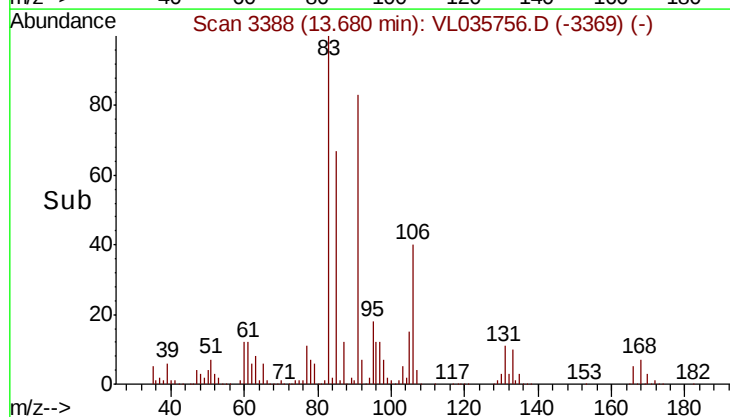
Tgt Ion: 83 Resp: 3113933

Ion Ratio Lower Upper

83 100

131 10.6 5.3 16.1

85 65.8 33.4 100.2



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

1500000

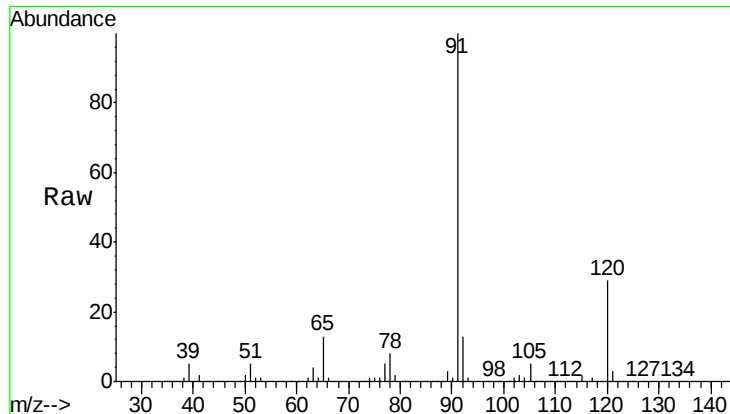
1000000

500000

0

13.60 13.70 13.80

Time-->



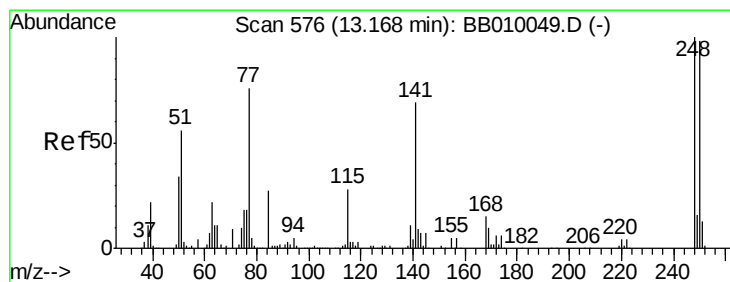
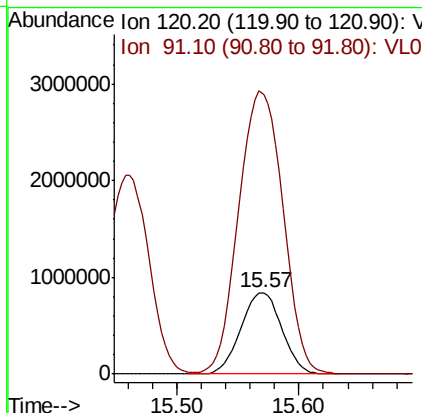
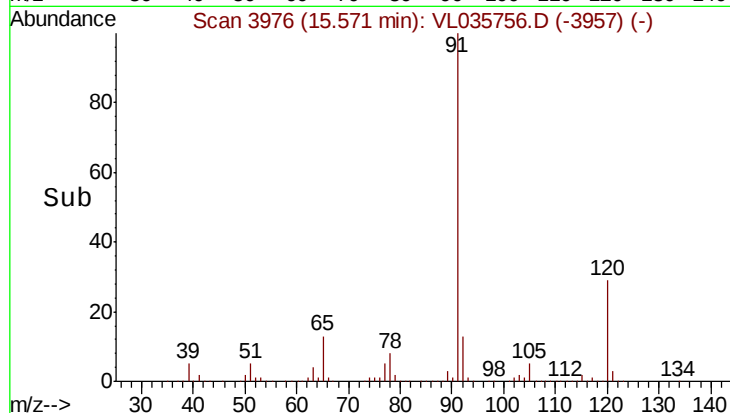
#64
n-propylbenzene
Concen: 10.571 ppbv
RT: 15.57 min Scan# 3976
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:120 Resp: 1949772
Ion Ratio Lower Upper
120 100
91 378.9 300.4 450.6

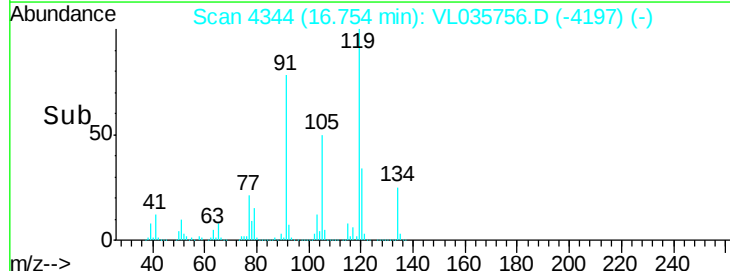
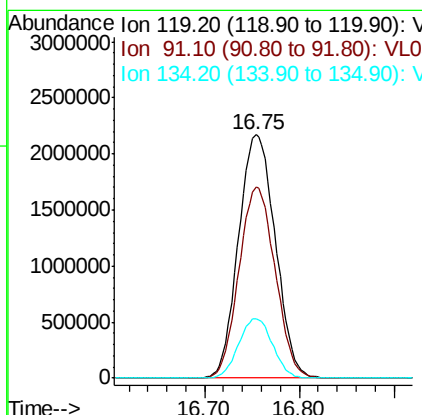
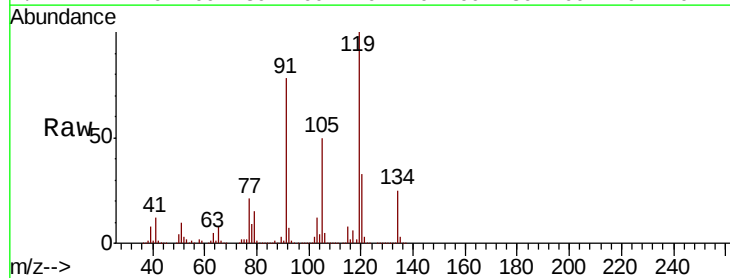
Manual Integrations
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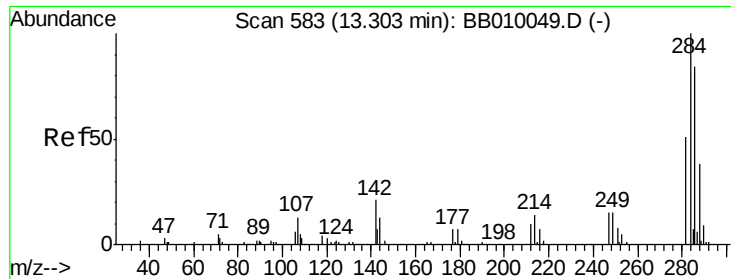
MMDadoda
10/14/2020 2:11:17 PM



#65
tert-Butylbenzene
Concen: 10.236 ppbv
RT: 16.75 min Scan# 4344
Delta R.T. -0.03 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion:119 Resp: 5864711
Ion Ratio Lower Upper
119 100
91 77.4 62.4 93.6
134 22.7 18.2 27.2





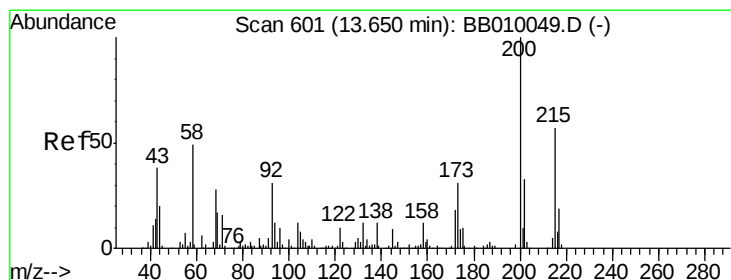
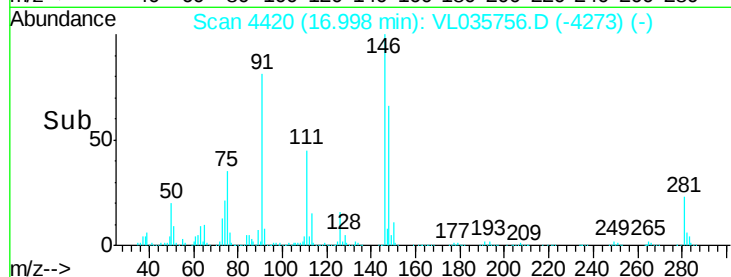
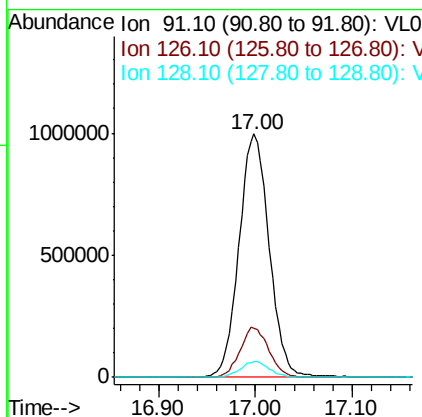
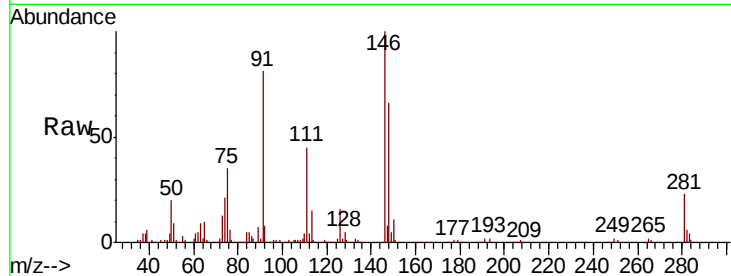
#66
Benzyl Chloride
Concen: 12.439 ppbv
RT: 17.00 min Scan# 4420
Delta R.T. -0.03 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 2159324
Ion Ratio Lower Upper
91 100
126 19.6 15.3 22.9
128 6.2 5.0 7.4

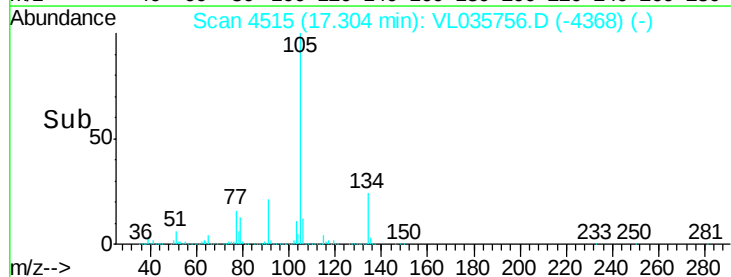
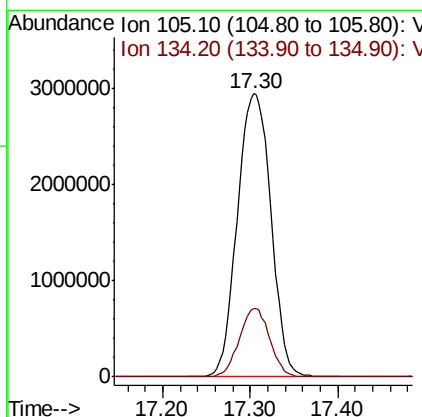
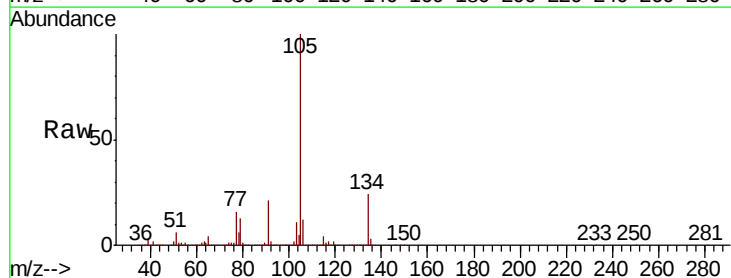
Manual Integrations
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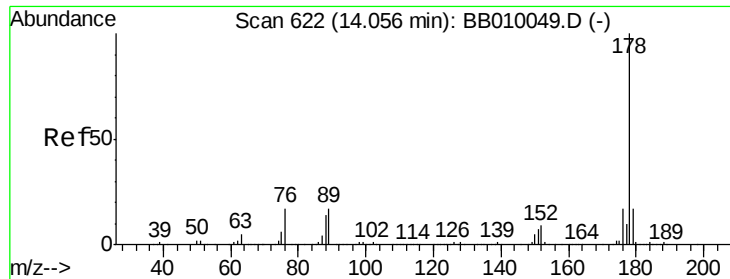
MMDadoda
10/14/2020 2:11:17 PM



#67
sec-Butylbenzene
Concen: 9.897 ppbv
RT: 17.30 min Scan# 4515
Delta R.T. -0.03 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion: 105 Resp: 7830546
Ion Ratio Lower Upper
105 100
134 21.9 17.6 26.4





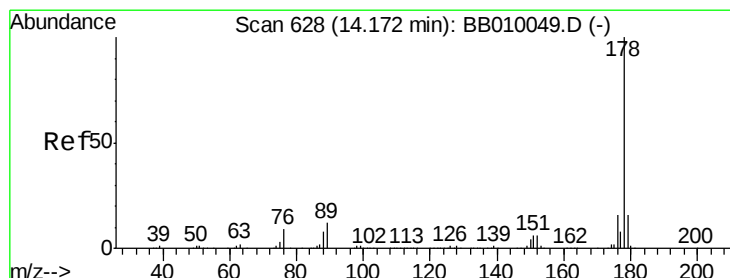
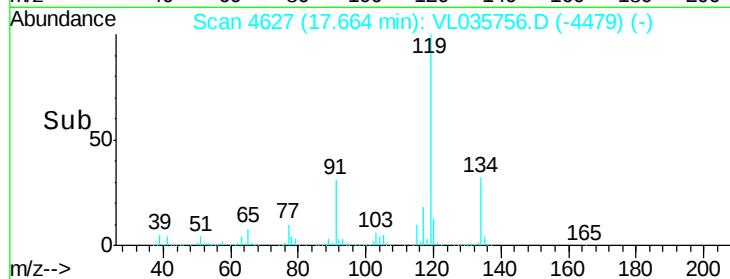
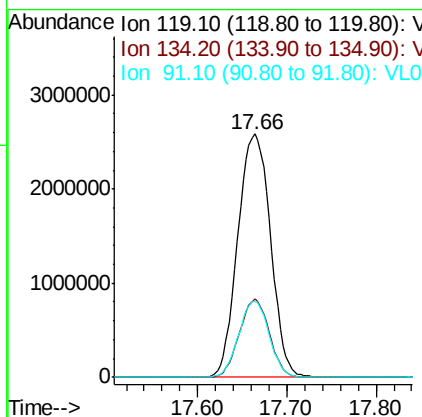
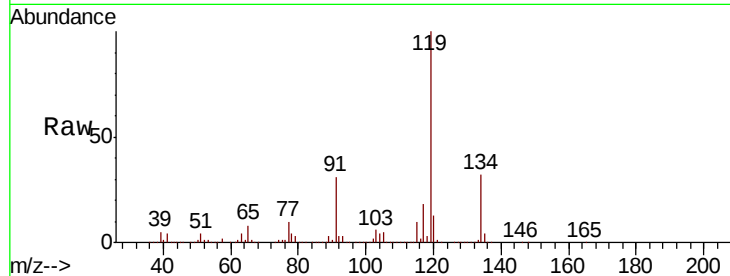
#69
 p-Isopropyltoluene
 Concen: 10.247 ppbv
 RT: 17.66 min Scan# 4627
 Delta R.T. -0.02 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	29.6	23.9	35.9
91	29.2	23.8	35.6

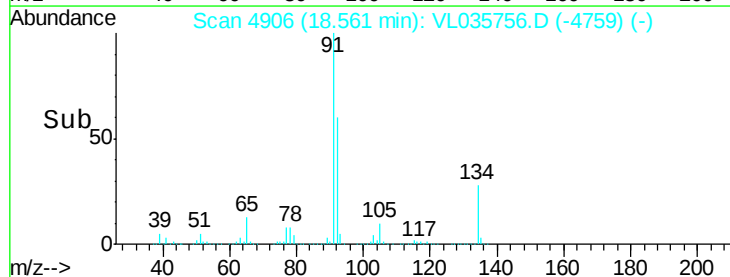
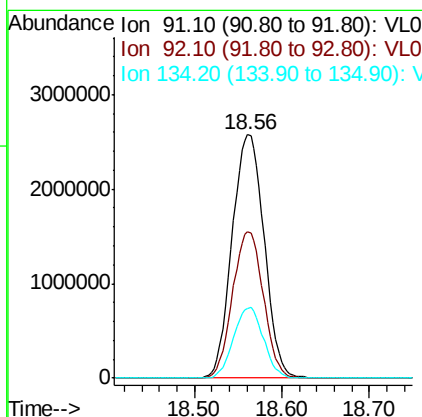
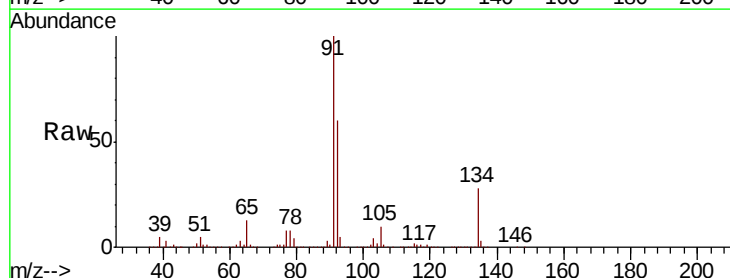
Manual Integrations
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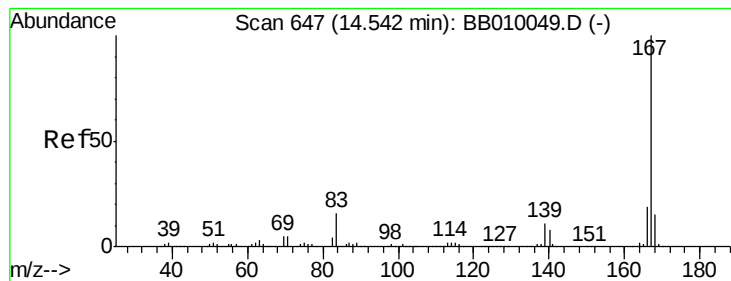
MMDadoda
 10/14/2020 2:11:17 PM



#70
 n-Butylbenzene
 Concen: 9.865 ppbv
 RT: 18.56 min Scan# 4906
 Delta R.T. -0.03 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.0	47.0	70.4
134	27.2	21.9	32.9





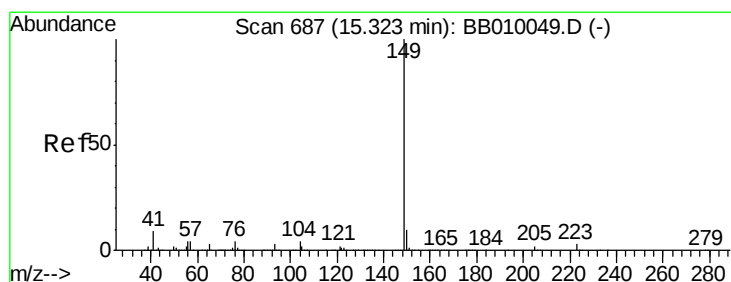
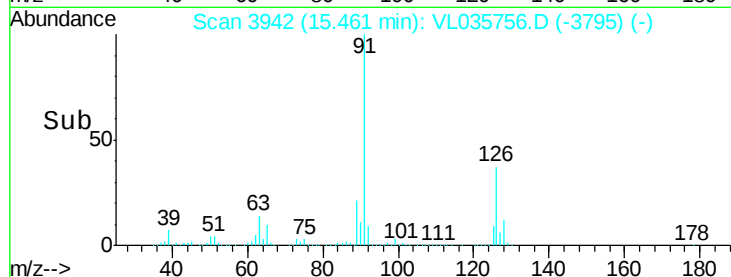
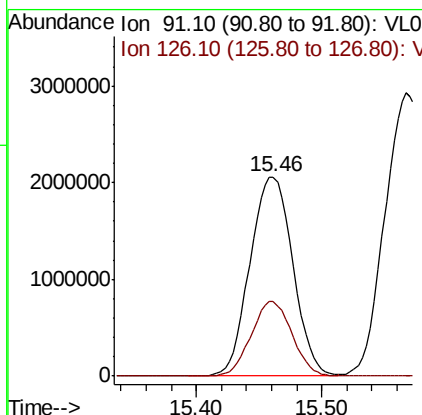
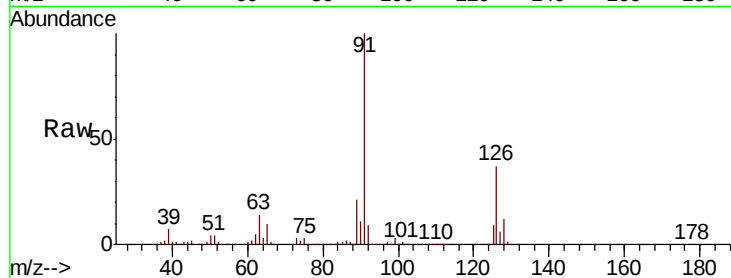
#71
 2-Chlorotoluene
 Concen: 10.650 ppbv
 RT: 15.46 min Scan# 3942
 Delta R.T. -0.03 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 4895481
 Ion Ratio Lower Upper
 91 100
 126 35.9 14.4 57.4

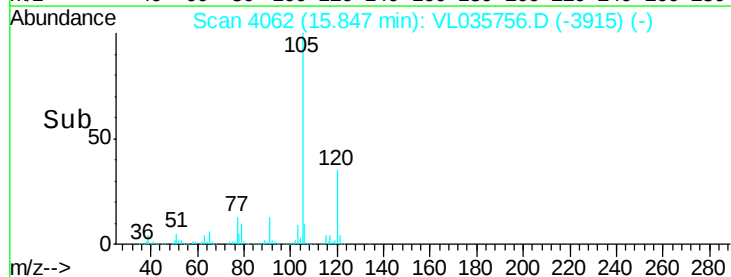
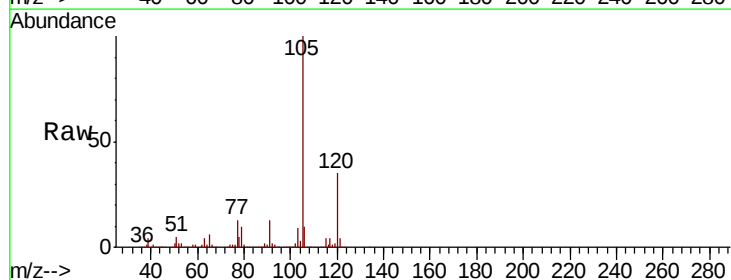
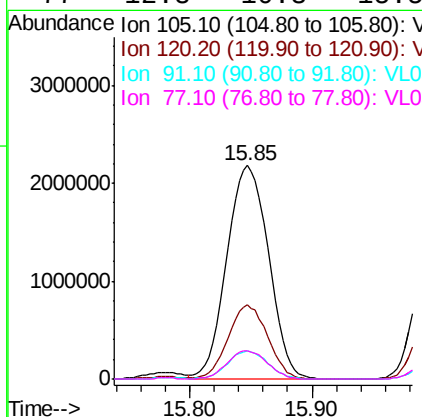
Manual Integrations
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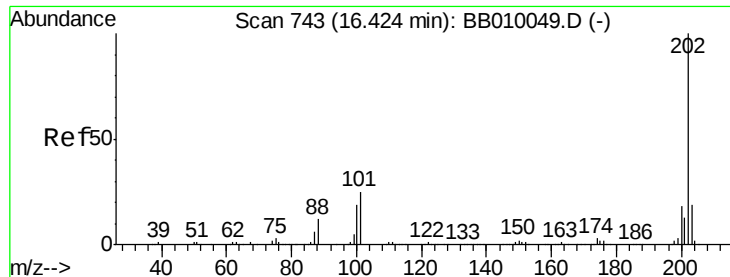
MMDadoda
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#72
 4-Ethyltoluene
 Concen: 10.749 ppbv
 RT: 15.85 min Scan# 4062
 Delta R.T. -0.03 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Tgt Ion: 105 Resp: 5173221
 Ion Ratio Lower Upper
 105 100
 120 32.9 26.5 39.7
 91 12.5 10.2 15.2
 77 12.8 10.3 15.5





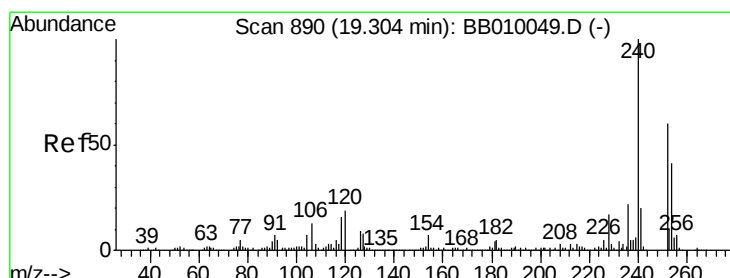
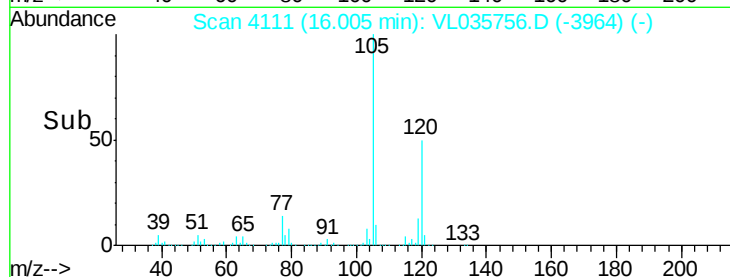
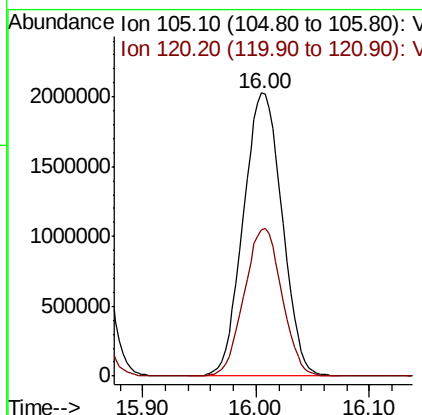
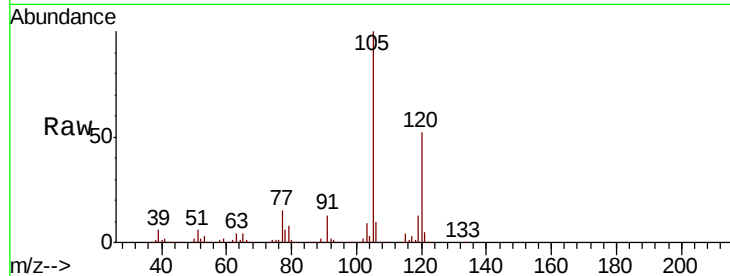
#73
 1,3,5-Trimethylbenzene
 Concen: 10.610 ppbv
 RT: 16.00 min Scan# 4111
 Delta R.T. -0.03 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 4825659
 Ion Ratio Lower Upper
 105 100
 120 51.9 43.0 64.4

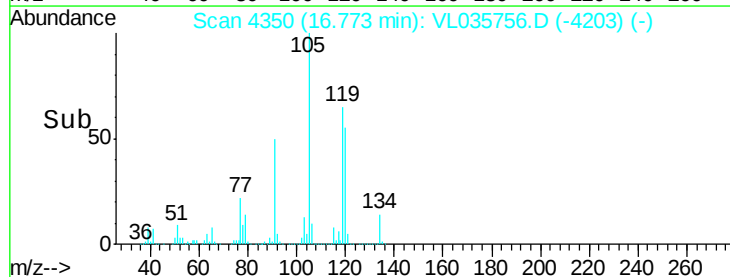
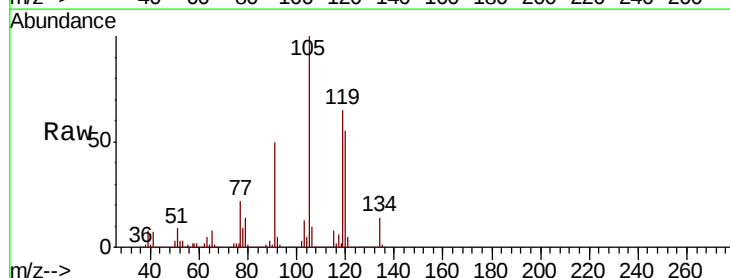
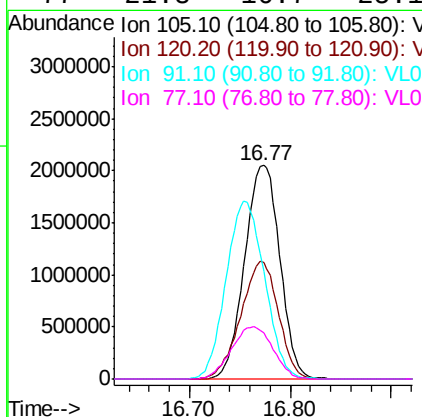
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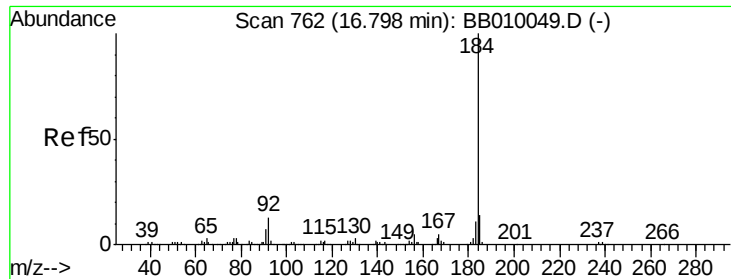
MMDadoda
 10/14/2020 2:11:17 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.703 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. -0.03 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Tgt Ion:105 Resp: 4975006
 Ion Ratio Lower Upper
 105 100
 120 54.5 42.5 63.7
 91 50.3 37.7 56.5
 77 21.8 16.7 25.1





#75

1,3-Dichlorobenzene

Concen: 9.459 ppbv

RT: 17.00 min Scan# 4422

Delta R.T. -0.03 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 3311014

Ion Ratio Lower Upper

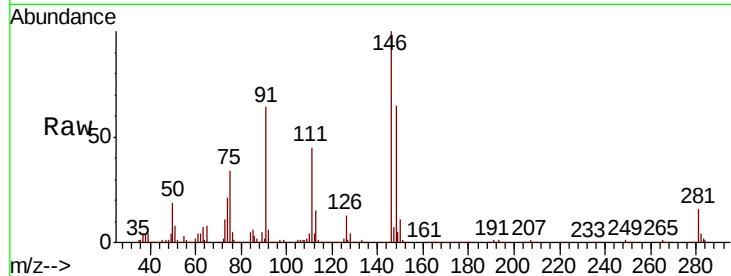
146 100

111 43.8 22.4 67.0

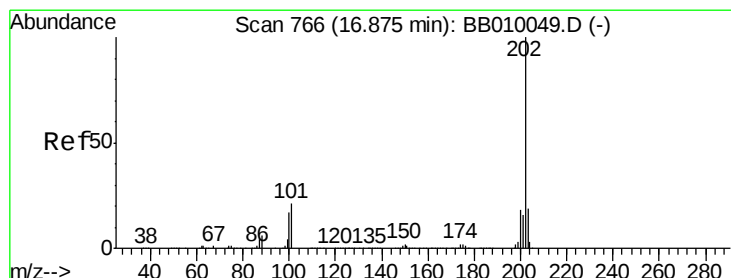
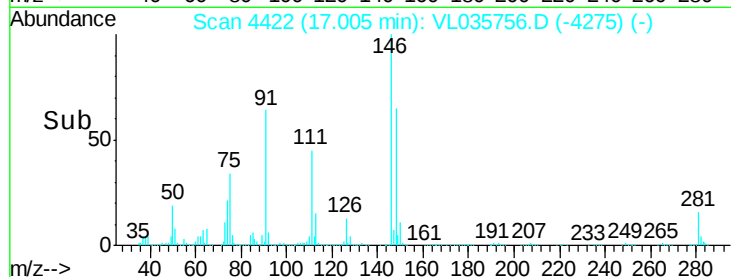
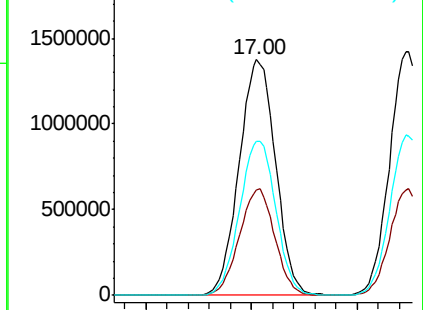
148 65.3 33.0 99.0

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.903 ppbv

RT: 17.15 min Scan# 4467

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

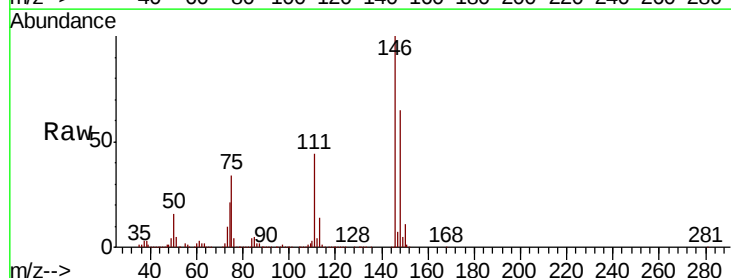
Tgt Ion:146 Resp: 3313436

Ion Ratio Lower Upper

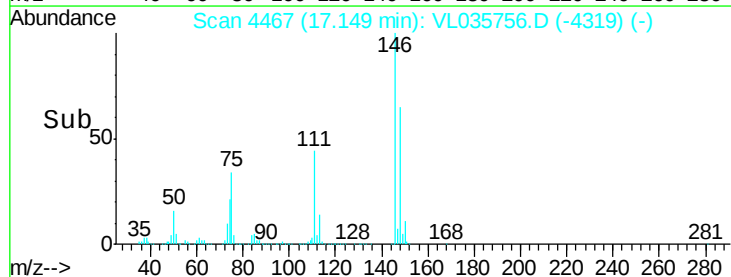
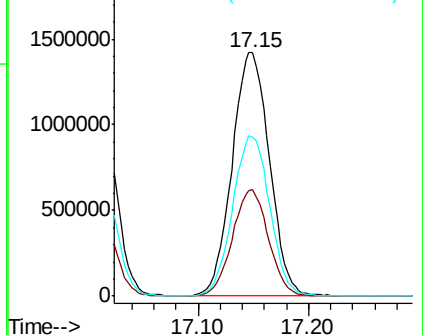
146 100

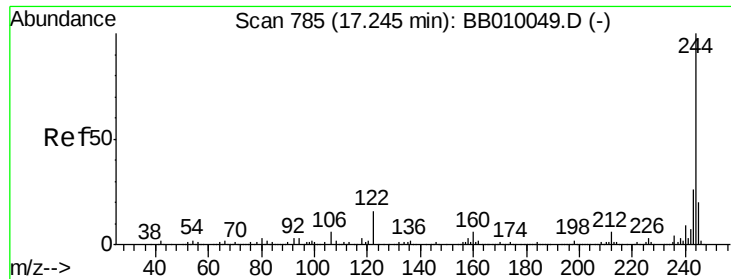
111 42.6 21.4 64.3

148 66.0 32.6 98.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.840 ppbv

RT: 17.83 min Scan# 4678

Delta R.T. -0.03 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 3253148

Ion Ratio Lower Upper

146 100

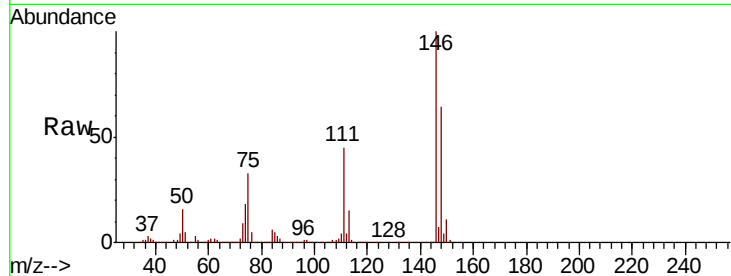
111 44.7 22.9 68.5

148 64.8 32.6 98.0

Manual Integrations
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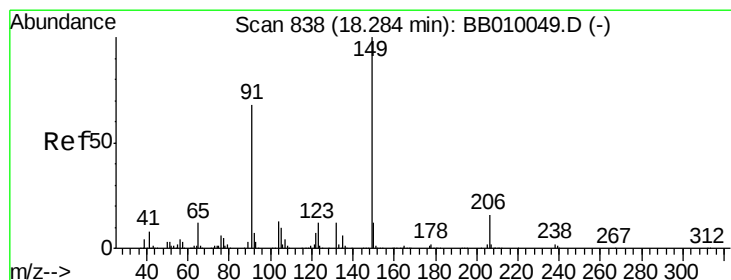
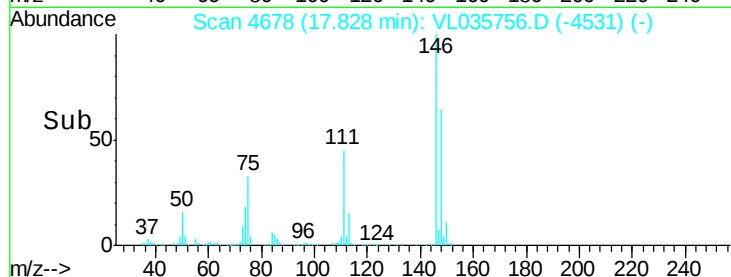
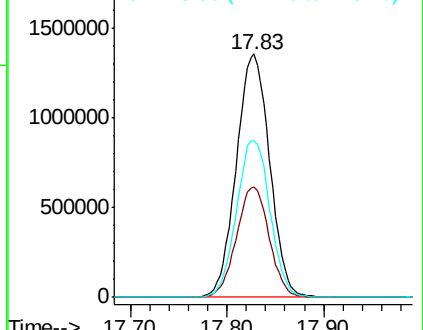
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.655 ppbv

RT: 23.39 min Scan# 6408

Delta R.T. -0.02 min

Lab File: VL035756.D

Acq: 12 Oct 2020 9:45 am

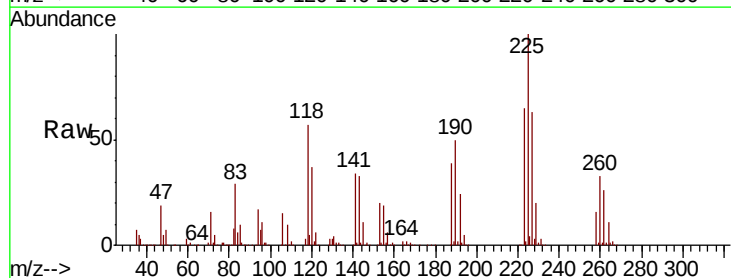
Tgt Ion:225 Resp: 1761176

Ion Ratio Lower Upper

225 100

223 64.1 51.3 76.9

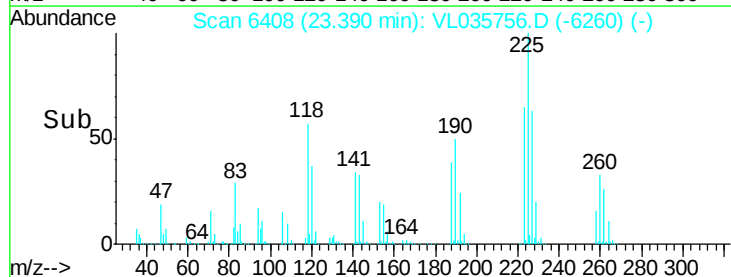
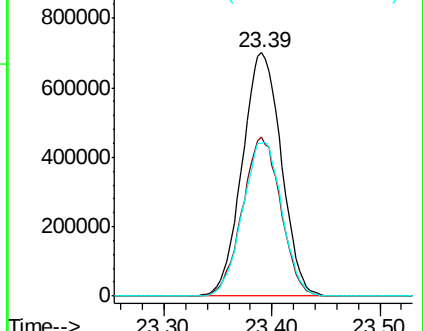
227 63.9 51.6 77.4

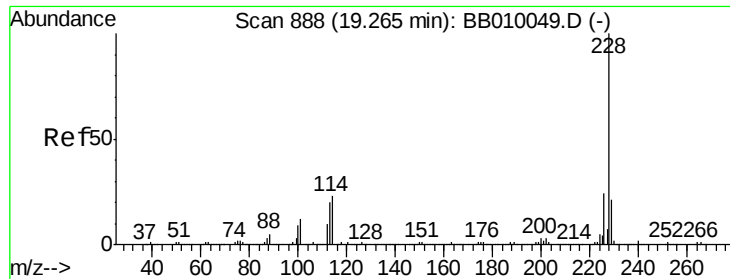


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





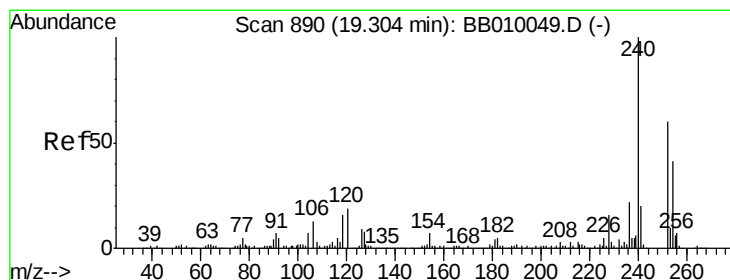
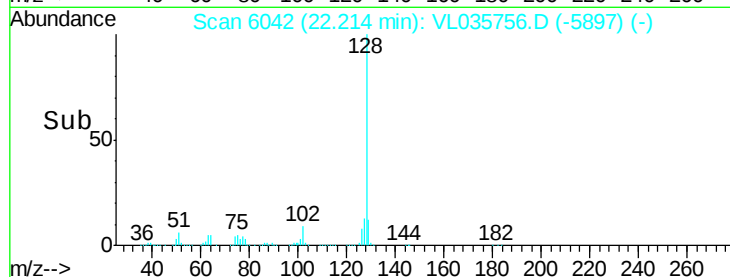
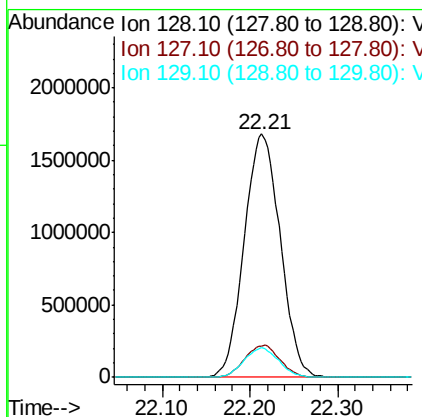
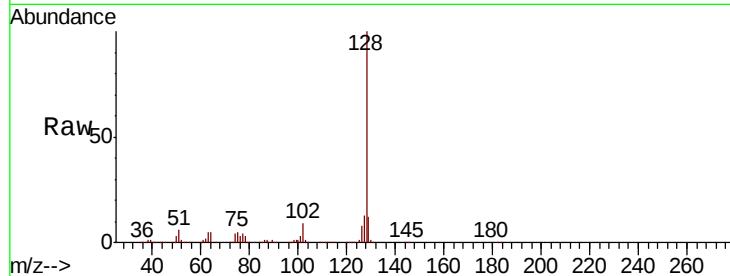
#79
Naphthalene
Concen: 9.842 ppbv
RT: 22.21 min Scan# 6042
Delta R.T. -0.03 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	12.2	9.4	14.0

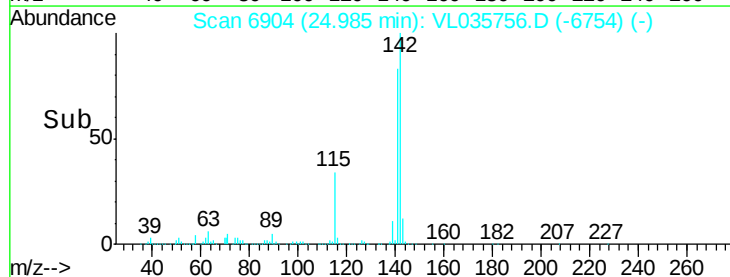
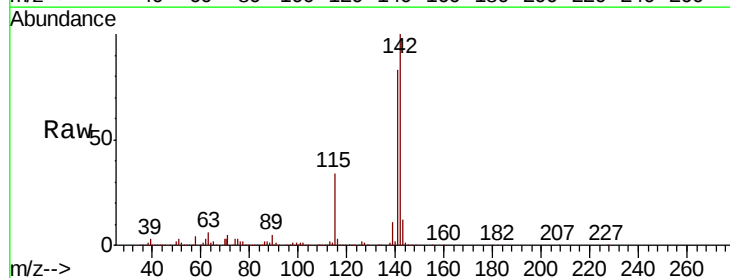
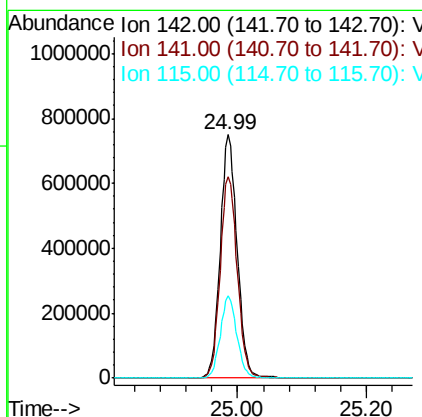
Manual Integrations
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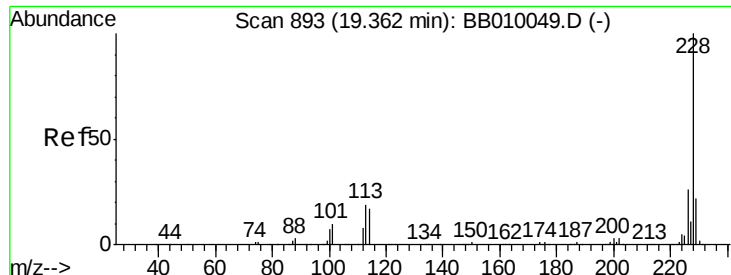
MMDadoda
10/14/2020 2:11:17 PM



#80
Naphthalene, 2-methyl-
Concen: 11.883 ppbv
RT: 24.99 min Scan# 6904
Delta R.T. -0.02 min
Lab File: VL035756.D
Acq: 12 Oct 2020 9:45 am

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.9	68.2	102.4
115	33.4	27.8	41.6





#81
 1,2,4-Trichlorobenzene
 Concen: 10.007 ppbv
 RT: 21.95 min Scan# 5959
 Delta R.T. -0.03 min
 Lab File: VL035756.D
 Acq: 12 Oct 2020 9:45 am

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.2
184	31.0	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 10/14/2020 2:11:17 PM

