

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101620\
 Data File : VL035785.D
 Acq On : 16 Oct 2020 13:56
 Operator : SY/AP
 Sample : VL1016ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/19/2020 11:09:54 AM

Quant Time: Oct 17 03:33:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23
 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	1079220	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	4189857	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	4216195m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3109247	9.84	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1361608	7.689	ppbv	99
3) Chlorodifluoromethane	2.98	51	1210035	10.422	ppbv	99
4) Chloromethane	3.13	50	649774	10.418	ppbv	98
5) Vinyl Chloride	3.24	62	773655	10.487	ppbv	99
6) Bromomethane	3.46	94	638620	10.241	ppbv	98
7) Chloroethane	3.55	64	288619	10.667	ppbv	99
8) Dichlorotetrafluoroethane	3.18	85	2061381	9.597	ppbv	99
9) Propene	3.00	41	476014	11.292	ppbv	99
10) Heptane	8.12	43	1341565	11.415	ppbv	99
11) Trichlorofluoromethane	3.94	101	2490983	9.859	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1867627	9.916	ppbv	99
13) Ethanol	3.60	45	106614	10.255	ppbv	99
14) Bromoethene	3.73	108	846951	10.675	ppbv	100
15) Acetone	3.84	43	1063461	9.158	ppbv	99
16) 1,3-Butadiene	3.31	39	483589	11.383	ppbv	100
17) tert-Butyl alcohol	4.29	59	1469354	11.616	ppbv	99
18) 1,1-Dichloroethene	4.28	96	867763	10.523	ppbv	99
19) Isopropyl Alcohol	3.96	45	733238	11.607	ppbv	# 97
20) Methylene Chloride	4.33	84	729817	8.556	ppbv	96
21) Allyl Chloride	4.40	41	647148	11.497	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	903569	10.371	ppbv	97
23) Vinyl Acetate	5.07	43	1687144	11.862	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1622060	10.470	ppbv	100
25) Ethyl Acetate	5.67	43	2209959	10.576	ppbv	100
26) Hexane	5.68	57	1222210	10.674	ppbv	99
27) Carbon Disulfide	4.54	76	1962056	11.496	ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	2222823	12.246	ppbv	100
29) Chloroform	5.75	83	2397666	10.311	ppbv	99
30) Cyclohexane	7.13	84	1323128	11.712	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1320138	11.943	ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	2370851	11.566	ppbv	99
34) 2-Butanone	5.24	43	1533935	11.069	ppbv	100
35) Carbon Tetrachloride	7.02	117	2401716	10.994	ppbv	99
36) Benzene	6.89	78	3073129	11.256	ppbv	100
37) 1,2-Dichloroethane	6.30	62	1518149	10.669	ppbv	100
38) Trichloroethene	7.83	130	1489578	10.937	ppbv	99
39) 1,2-Dichloropropane	7.61	63	1068818	10.801	ppbv	98
40) 1,4-Dioxane	7.83	88	535627	11.836	ppbv	91
41) Tetrahydrofuran	6.05	42	862948	12.360	ppbv	100
42) Bromodichloromethane	7.79	83	2533371	11.052	ppbv	99
43) Methyl Methacrylate	8.01	69	1296344	11.939	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101620\
 Data File : VL035785.D
 Acq On : 16 Oct 2020 13:56
 Operator : SY/AP
 Sample : VL1016ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

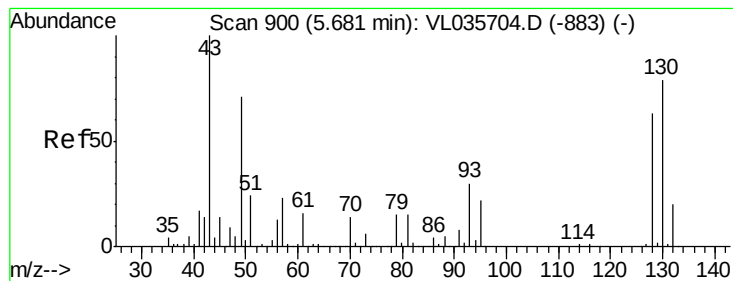
Manual Integrations
 APPROVED

MMDadoda
 10/19/2020 11:09:54 AM

Quant Time: Oct 17 03:33:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4151471	10.597	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1471898	13.427	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1751458	12.961	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	1475835	10.412	ppbv	99
48) Dibromochloromethane	10.31	129	2468189	11.442	ppbv	100
49) Bromoform	13.05	173	2179864	11.909	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2249825	11.115	ppbv	100
51) 2-Hexanone	10.14	43	1885590	11.562	ppbv #	100
52) Tetrachloroethene	11.23	164	1426918	10.869	ppbv	98
53) Toluene	9.81	91	3805841	11.822	ppbv	100
54) 1,2-Dibromoethane	10.62	107	2297214	10.824	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1892932	10.707	ppbv	96
57) Chlorobenzene	12.16	112	3165102	9.939	ppbv	99
58) Ethyl Benzene	12.72	91	4945401	11.686	ppbv	99
59) m/p-Xylene	13.01	91	8406630m	22.748	ppbv	
60) o-Xylene	13.71	91	4070526	10.889	ppbv	100
61) Styrene	13.54	104	3224871	12.476	ppbv	100
62) Isopropylbenzene	14.68	105	6155641	10.616	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.69	83	2955879	9.642	ppbv	100
64) n-propylbenzene	15.58	120	1875281	11.050	ppbv	98
65) tert-Butylbenzene	16.76	119	5661606	10.739	ppbv	99
66) Benzyl Chloride	17.00	91	2108053	13.198	ppbv	98
67) sec-Butylbenzene	17.31	105	7591562	10.428	ppbv	99
69) p-Isopropyltoluene	17.67	119	6371698	10.758	ppbv	99
70) n-Butylbenzene	18.57	91	6304224	10.336	ppbv	99
71) 2-Chlorotoluene	15.47	91	4703214	11.120	ppbv	100
72) 4-Ethyltoluene	15.85	105	4983611	11.254	ppbv	100
73) 1,3,5-Trimethylbenzene	16.01	105	4636950	11.080	ppbv	98
74) 1,2,4-Trimethylbenzene	16.78	105	4793513	10.161	ppbv	97
75) 1,3-Dichlorobenzene	17.01	146	3160388	9.812	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	3189174	10.359	ppbv	100
77) 1,2-Dichlorobenzene	17.83	146	3107437	10.215	ppbv	100
78) Hexachloro-1,3-Butadiene	23.40	225	1725798	10.283	ppbv	100
79) Naphthalene	22.22	128	4685106	10.412	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	1253182	11.808	ppbv	98
81) 1,2,4-Trichlorobenzene	21.95	180	2445176	10.486	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 49 Resp: 1079220

Ion Ratio Lower Upper

49 100

128 83.6 43.1 129.4

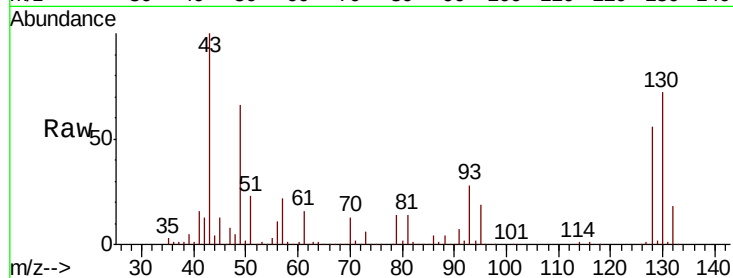
130 107.3 54.9 164.7

Manual Integrations

APPROVED

MMDadoda

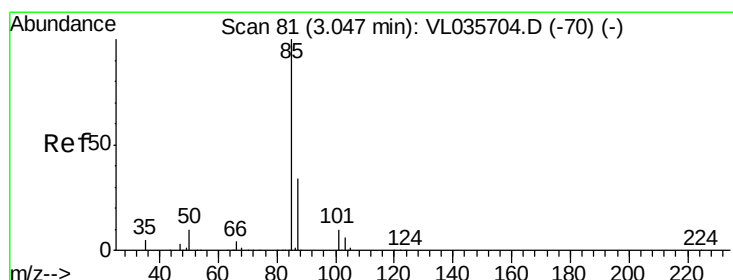
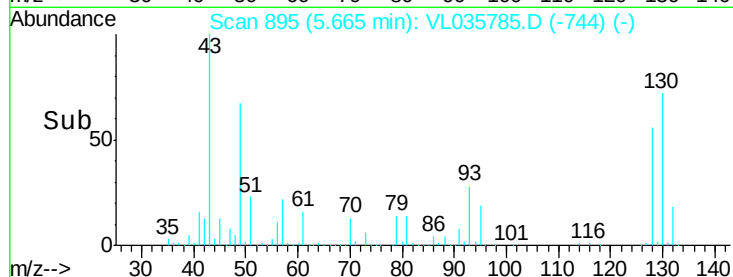
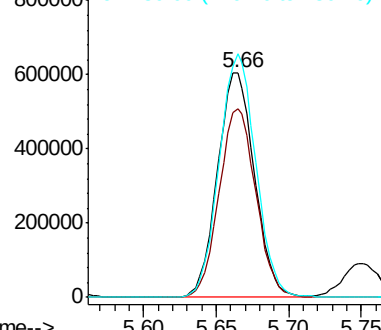
10/19/2020 11:09:54 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.689 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL035785.D

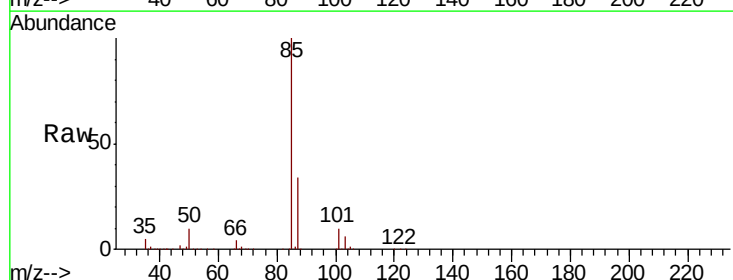
Acq: 16 Oct 2020 13:56

Tgt Ion: 85 Resp: 1361608

Ion Ratio Lower Upper

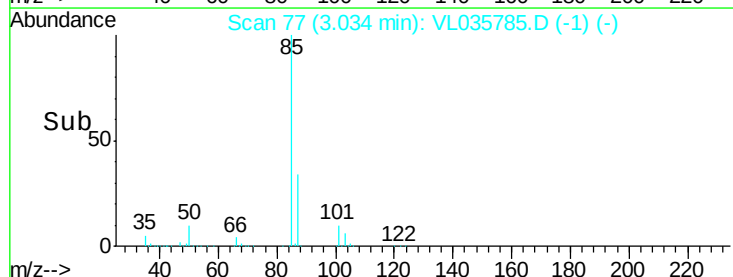
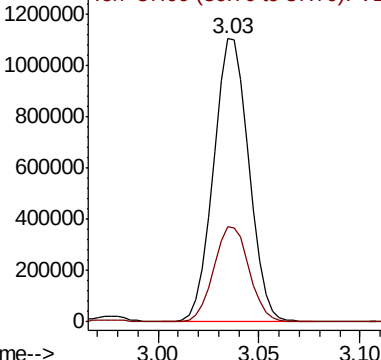
85 100

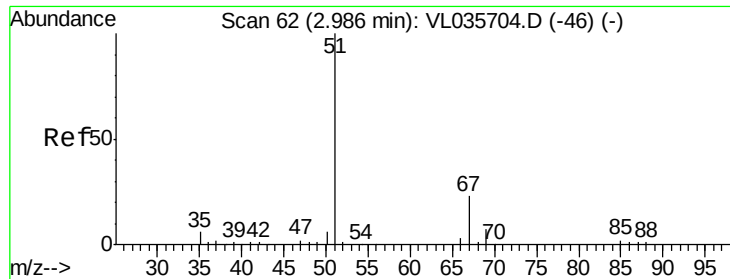
87 33.6 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

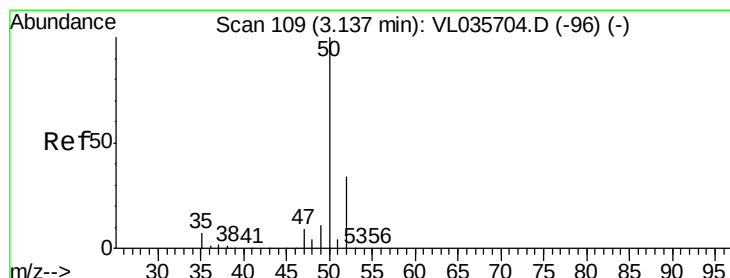
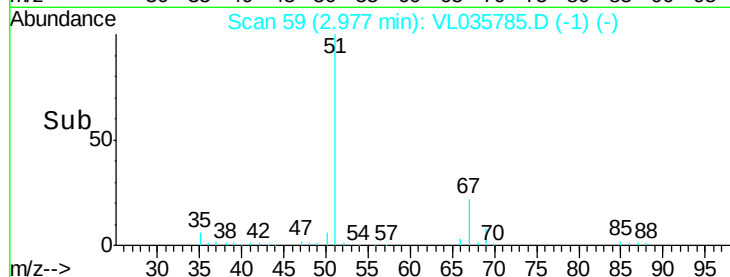
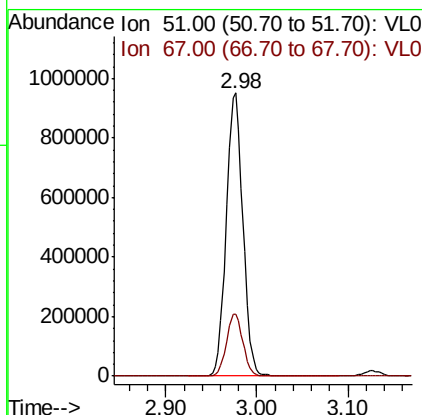
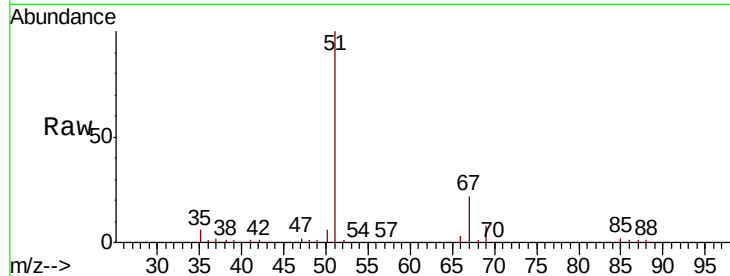
Chlorodifluoromethane
Concen: 10.422 ppbv
RT: 2.98 min Scan# 59
Delta R.T. -0.01 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 51 Resp: 1210035
Ion Ratio Lower Upper
51 100
67 21.9 17.8 26.8

Manual Integrations
APPROVED

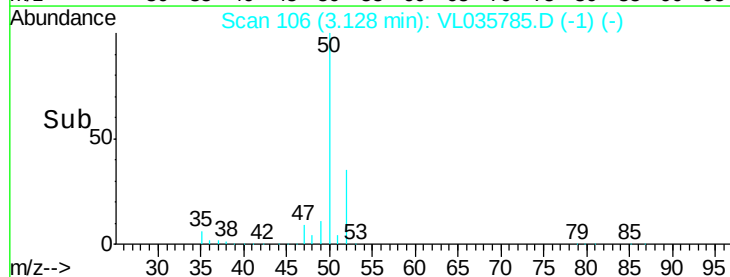
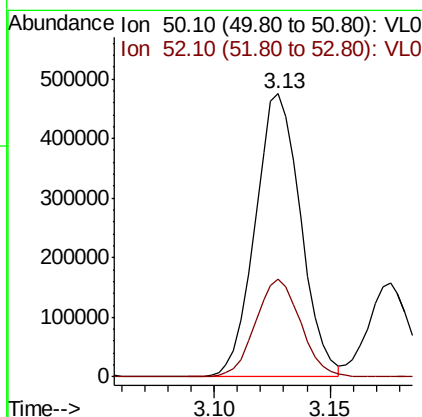
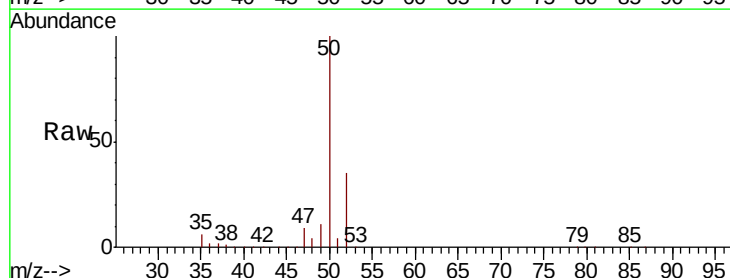
MMDadoda
10/19/2020 11:09:54 AM

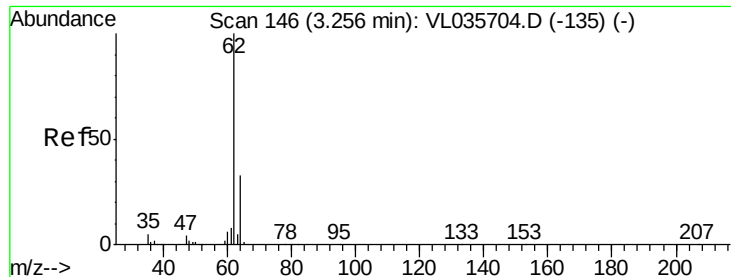


#4

Chloromethane
Concen: 10.418 ppbv
RT: 3.13 min Scan# 106
Delta R.T. -0.01 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion: 50 Resp: 649774
Ion Ratio Lower Upper
50 100
52 34.7 26.8 40.2





#5

Vinyl Chloride

Concen: 10.487 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 62 Resp: 773655

Ion Ratio Lower Upper

62 100

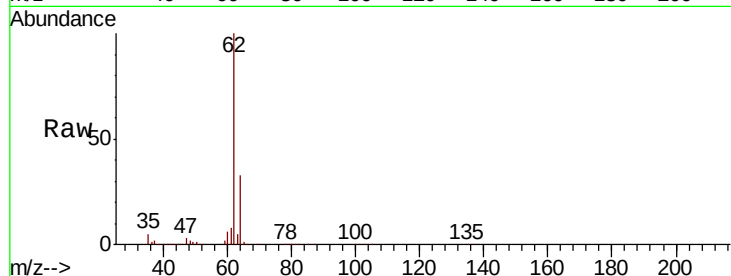
64 33.0 26.8 40.2

Manual Integrations

APPROVED

MMDadoda

10/19/2020 11:09:54 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.24

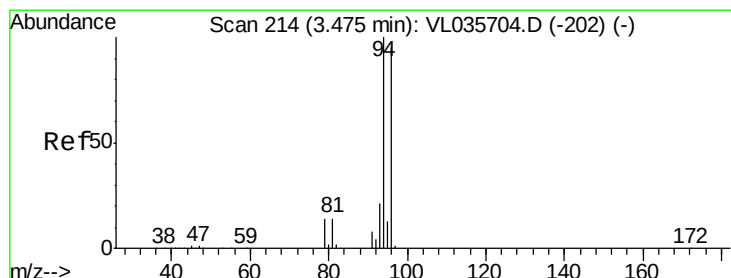
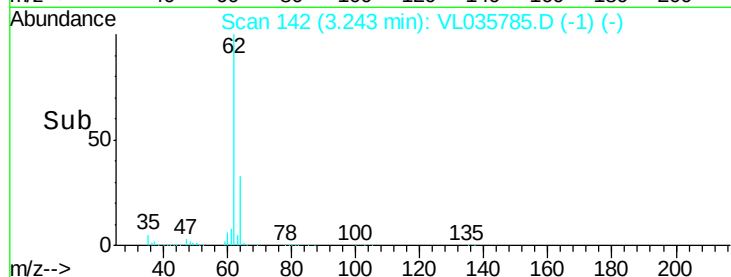
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 10.241 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.01 min

Lab File: VL035785.D

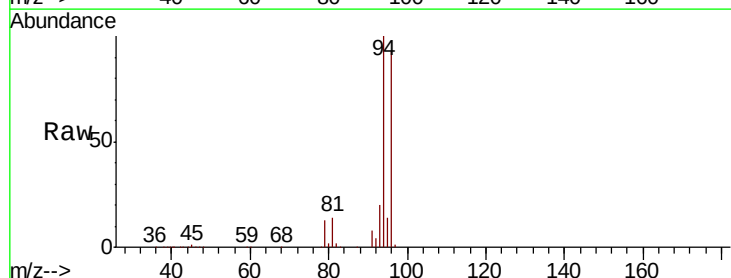
Acq: 16 Oct 2020 13:56

Tgt Ion: 94 Resp: 638620

Ion Ratio Lower Upper

94 100

96 93.4 76.3 114.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.46

500000

400000

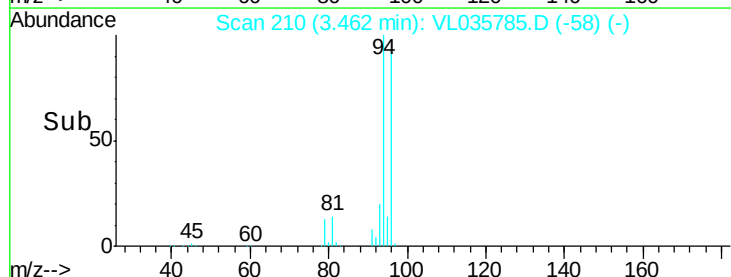
300000

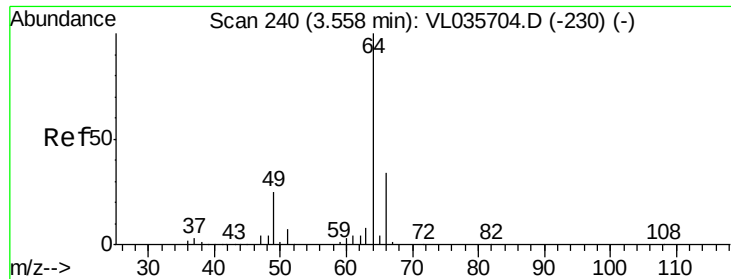
200000

100000

0

Time-->





#7

Chloroethane

Concen: 10.667 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 64 Resp: 288619

Ion Ratio Lower Upper

64 100

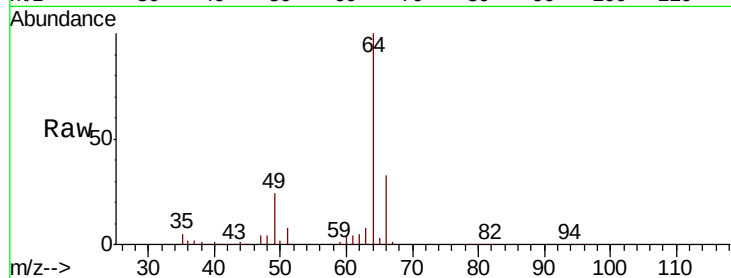
66 32.9 26.9 40.3

Manual Integrations

APPROVED

MMDadoda

10/19/2020 11:09:54 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

250000

200000

150000

100000

50000

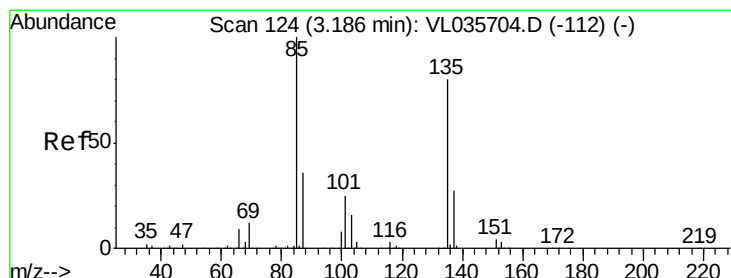
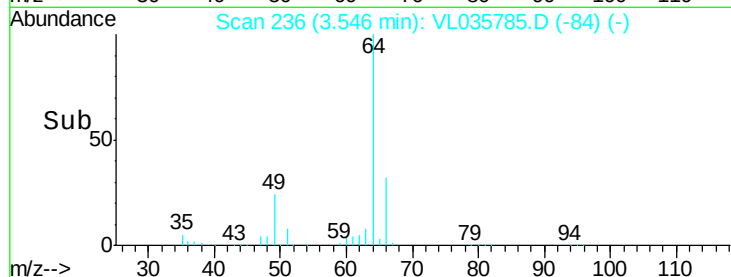
0

3.50

3.55

3.60

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.597 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.01 min

Lab File: VL035785.D

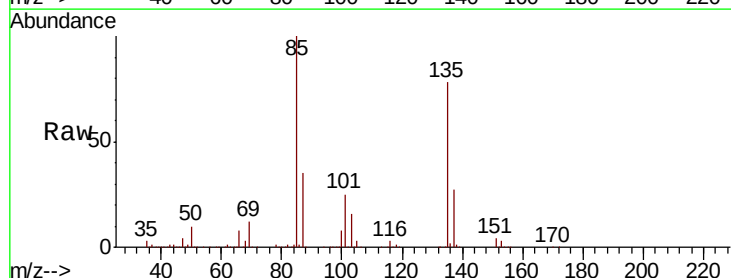
Acq: 16 Oct 2020 13:56

Tgt Ion: 85 Resp: 2061381

Ion Ratio Lower Upper

85 100

135 79.4 64.3 96.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

1000000

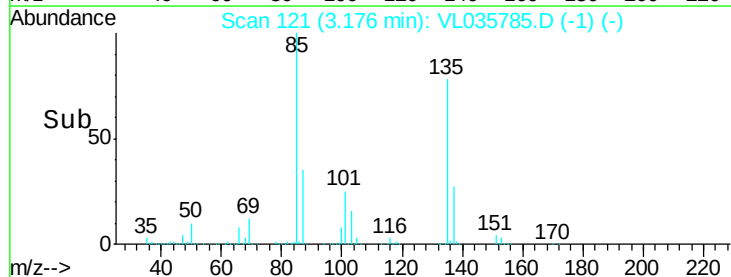
500000

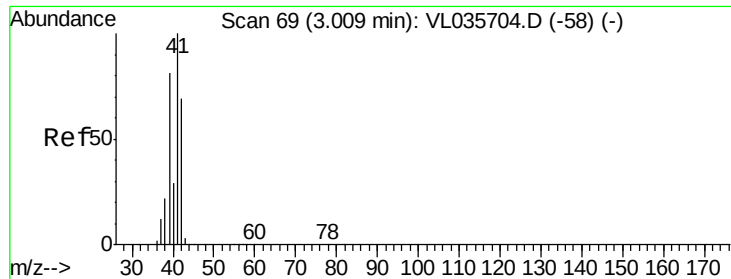
0

3.15

3.20

Time-->





#9

Propene

Concen: 11.292 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 41 Resp: 476014

Ion Ratio Lower Upper

41 100

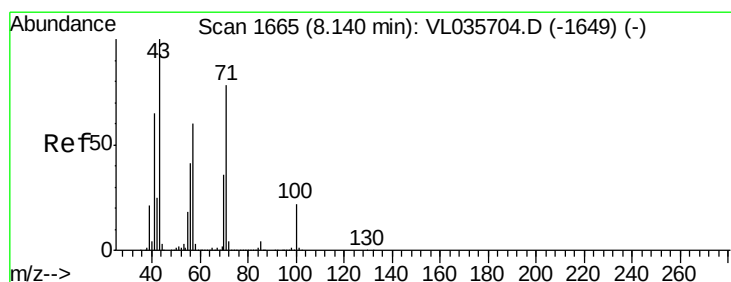
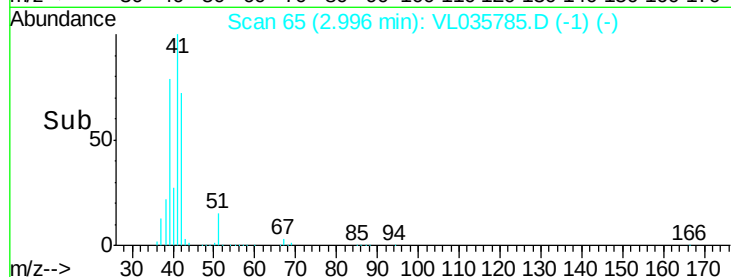
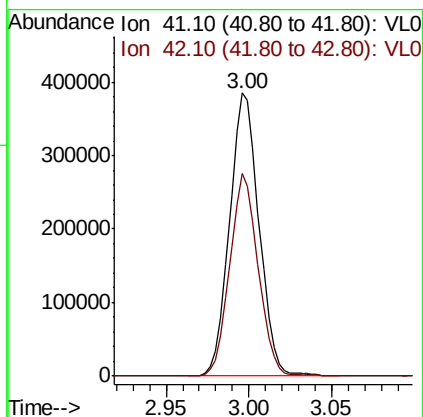
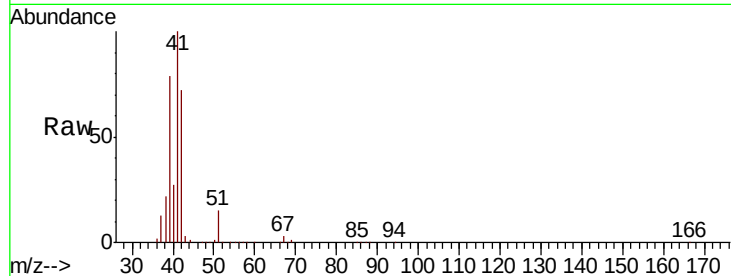
42 69.5 56.2 84.4

Manual Integrations

APPROVED

MMDadoda

10/19/2020 11:09:54 AM



#10

Heptane

Concen: 11.415 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.02 min

Lab File: VL035785.D

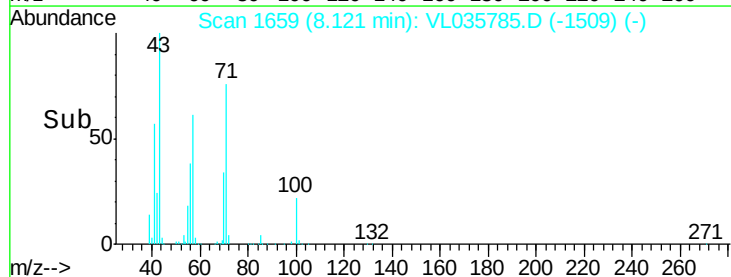
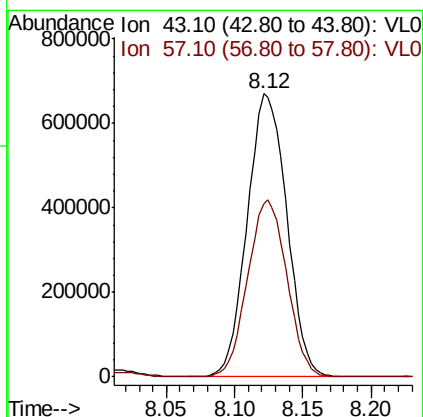
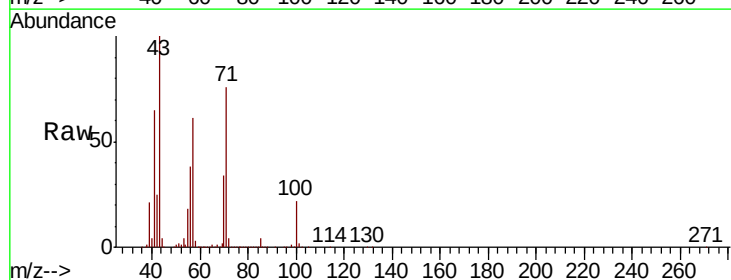
Acq: 16 Oct 2020 13:56

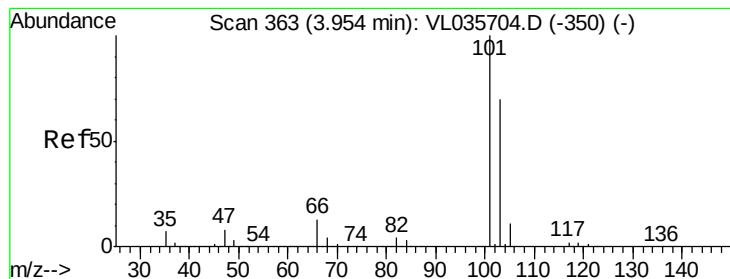
Tgt Ion: 43 Resp: 1341565

Ion Ratio Lower Upper

43 100

57 62.3 50.4 75.6





#11

Trichlorofluoromethane

Concen: 9.859 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:101 Resp: 2490983

Ion Ratio Lower Upper

101 100

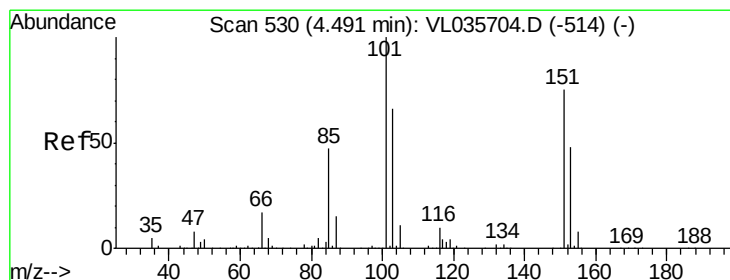
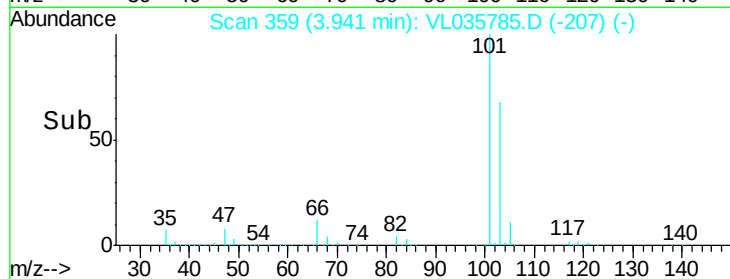
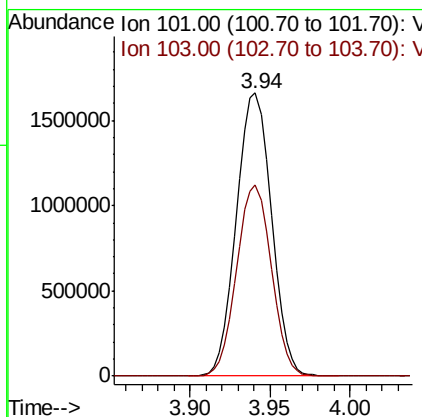
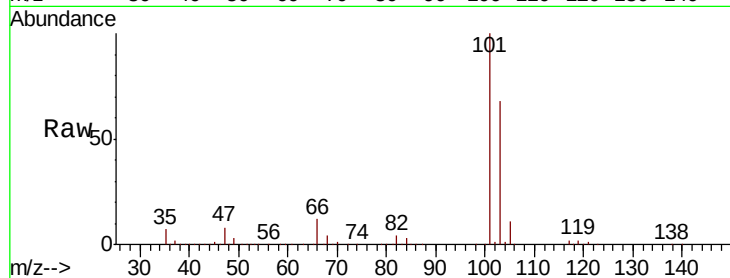
103 67.6 55.6 83.4

Manual Integrations

APPROVED

MMDadoda

10/19/2020 11:09:54 AM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.916 ppbv

RT: 4.47 min Scan# 525

Delta R.T. -0.02 min

Lab File: VL035785.D

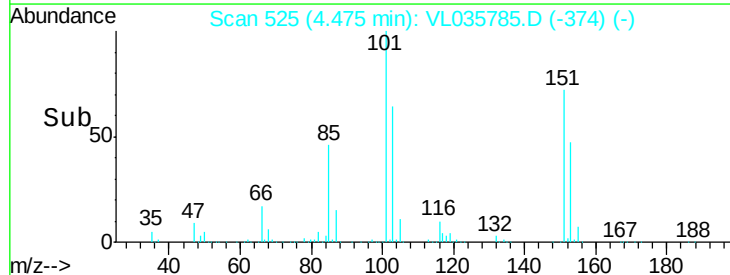
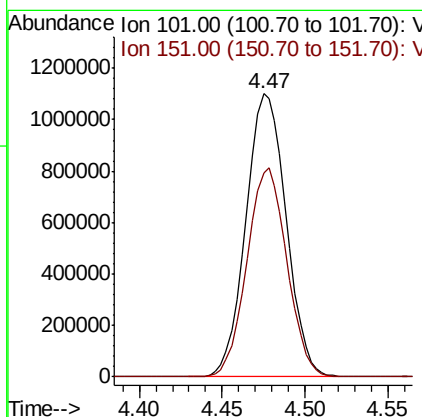
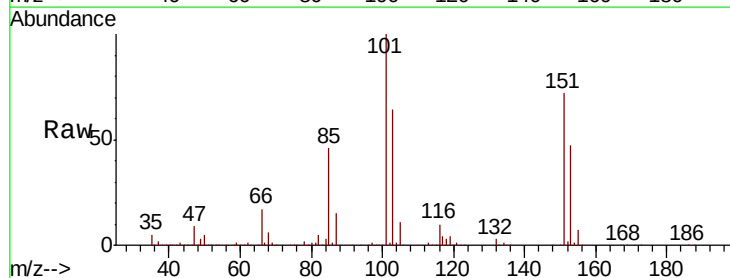
Acq: 16 Oct 2020 13:56

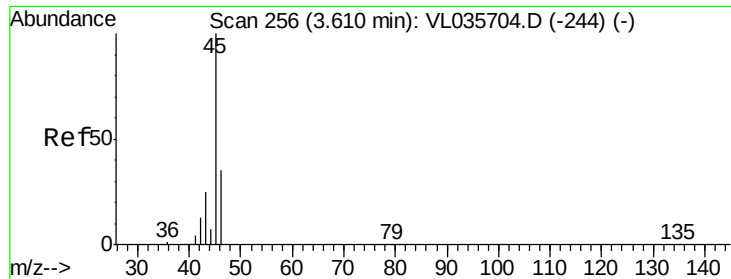
Tgt Ion:101 Resp: 1867627

Ion Ratio Lower Upper

101 100

151 73.4 59.1 88.7





#13

Ethanol

Concen: 10.255 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 45 Resp: 106614

Ion Ratio Lower Upper

45 100

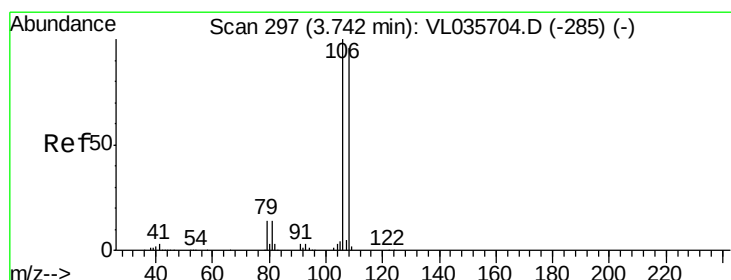
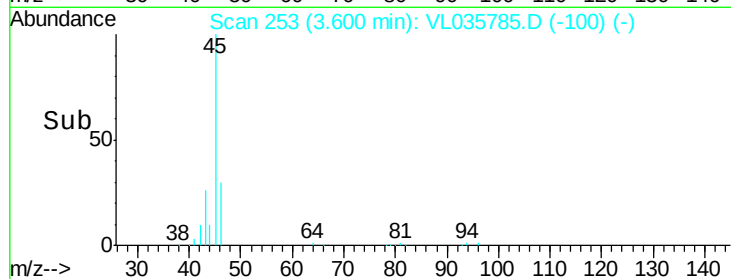
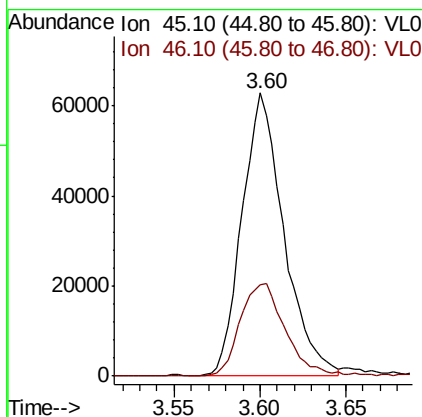
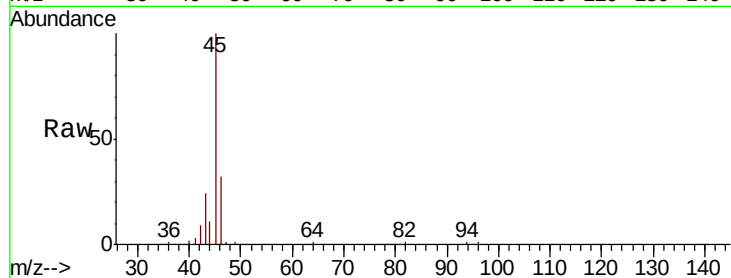
46 35.9 14.7 58.7

Manual Integrations

APPROVED

MMDadoda

10/19/2020 11:09:54 AM



#14

Bromoethene

Concen: 10.675 ppbv

RT: 3.73 min Scan# 293

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

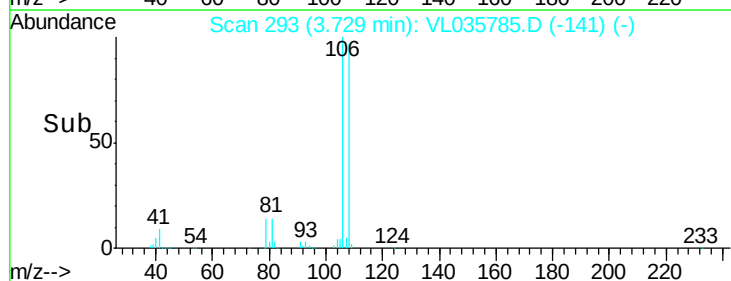
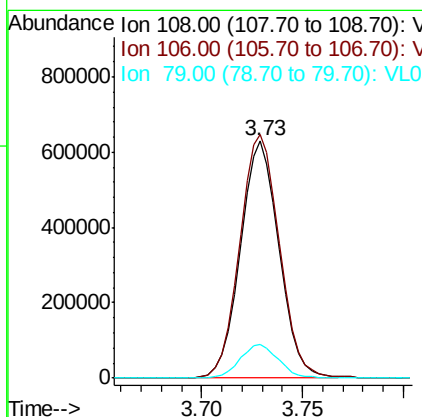
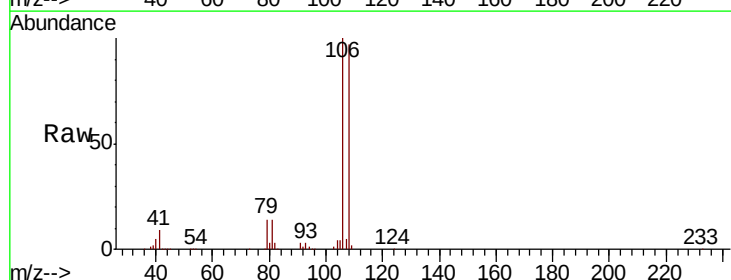
Tgt Ion: 108 Resp: 846951

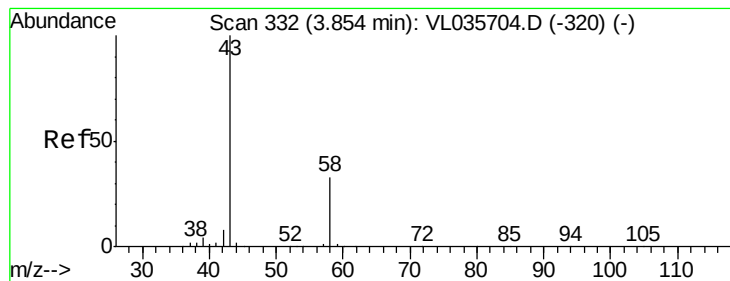
Ion Ratio Lower Upper

108 100

106 106.0 84.6 126.8

79 14.3 11.6 17.4





#15

Acetone

Concen: 9.158 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 43 Resp: 1063461

Ion Ratio Lower Upper

43 100

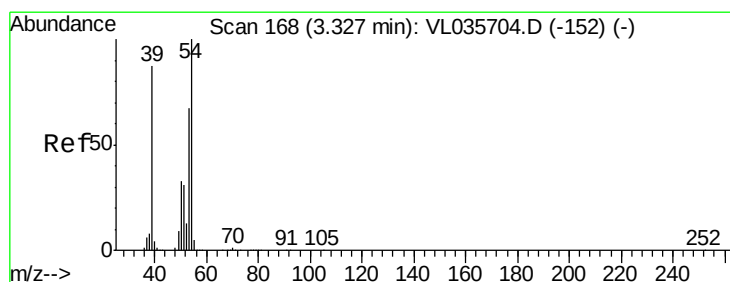
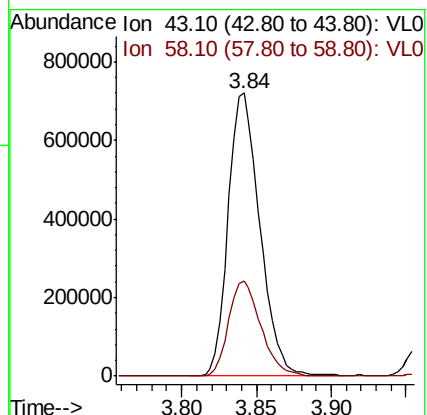
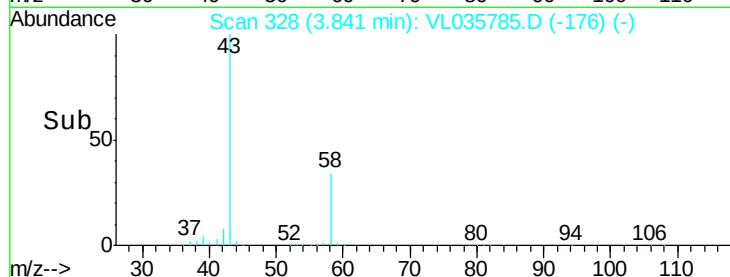
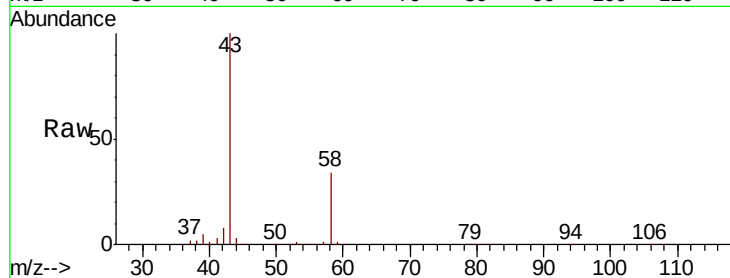
58 34.4 27.3 40.9

Manual Integrations

APPROVED

MMDadoda

10/19/2020 11:09:54 AM



#16

1,3-Butadiene

Concen: 11.383 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL035785.D

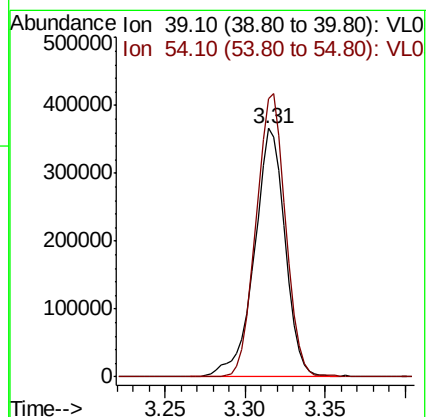
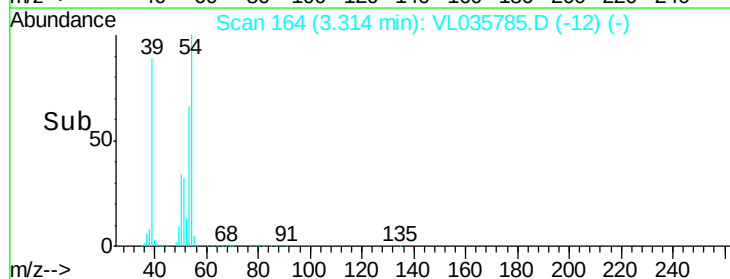
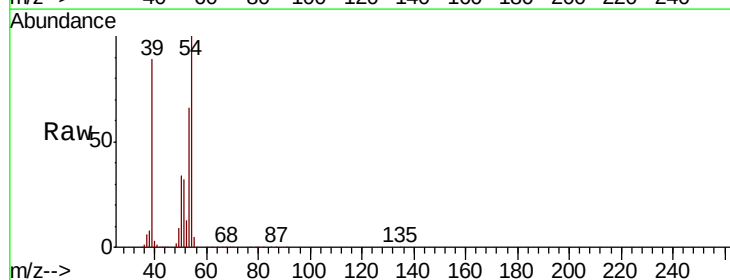
Acq: 16 Oct 2020 13:56

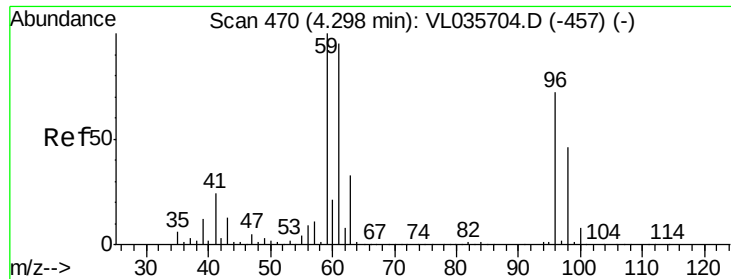
Tgt Ion: 39 Resp: 483589

Ion Ratio Lower Upper

39 100

54 109.1 87.4 131.0





#17

tert-Butyl alcohol

Concen: 11.616 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Tot Ion: 59 Resp: 1469354

Ion Ratio Lower Upper

59 100

57 10.3 8.5 12.7

Instrument :

MSVOA_L

ClientSampleId :

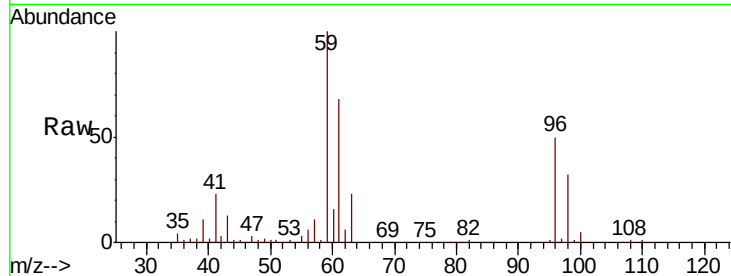
VL1016ABS01

Manual Integrations

APPROVED

MMDadoda

10/19/2020 11:09:54 AM



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

800000

600000

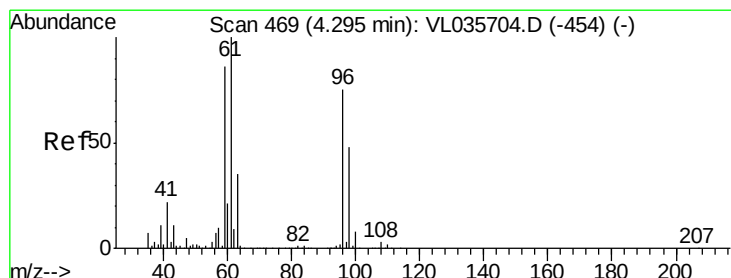
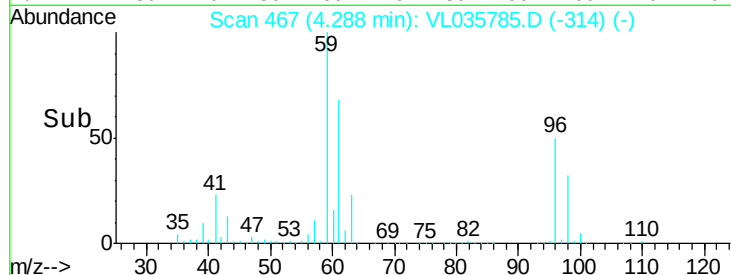
400000

200000

0

Time-->

4.20 4.25 4.30 4.35 4.40



#18

1,1-Dichloroethene

Concen: 10.523 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

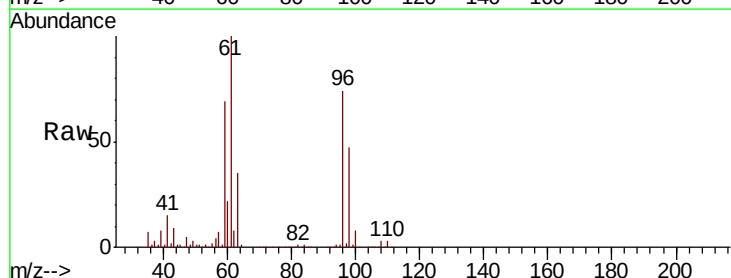
Tgt Ion: 96 Resp: 867763

Ion Ratio Lower Upper

96 100

61 135.0 106.7 160.1

98 63.4 50.8 76.2



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

1000000

800000

600000

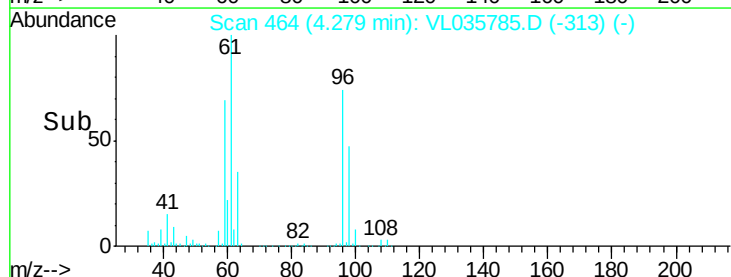
400000

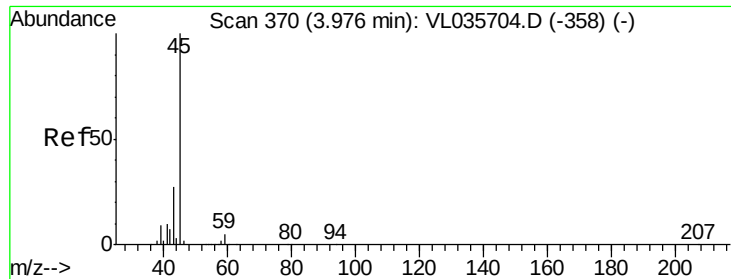
200000

0

Time-->

4.20 4.25 4.30 4.35





#19

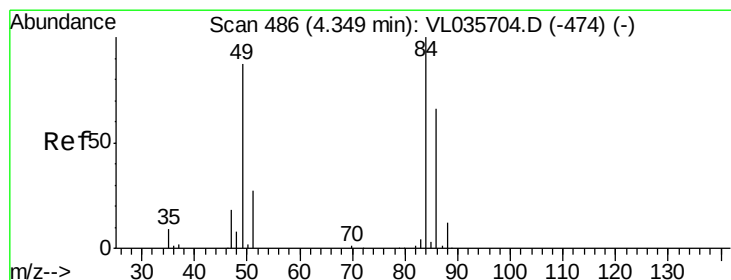
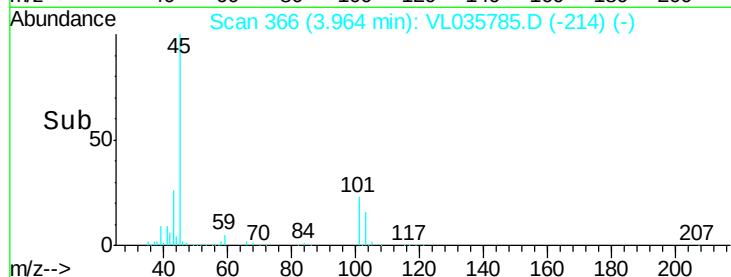
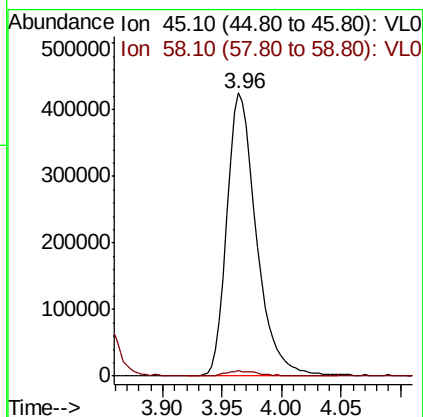
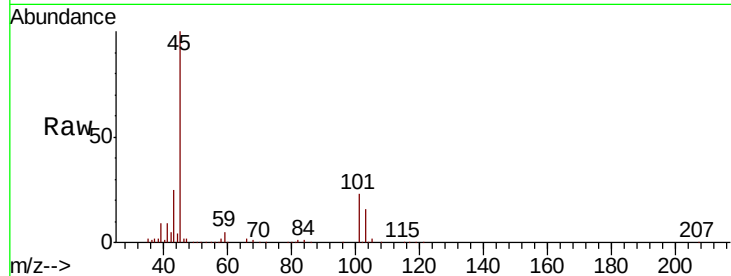
Isopropyl Alcohol
 Concen: 11.607 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. -0.01 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.5	2.8	4.2#

Manual Integrations
 APPROVED

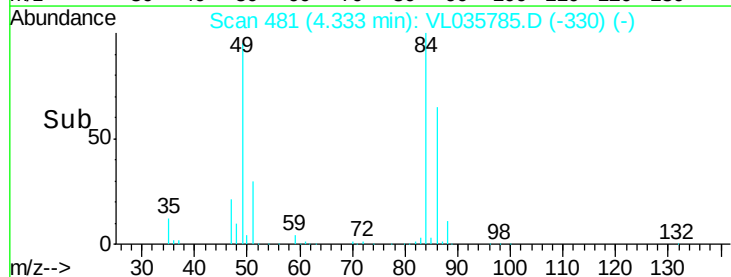
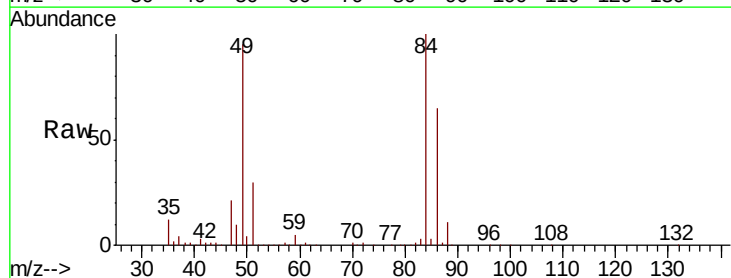
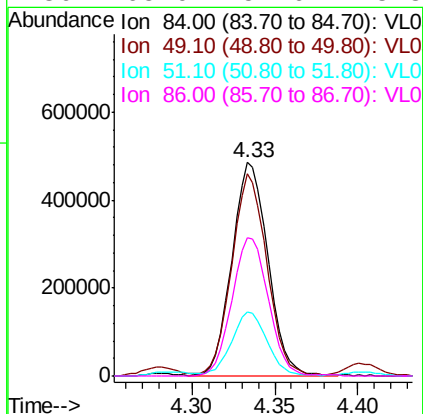
MMDadoda
 10/19/2020 11:09:54 AM

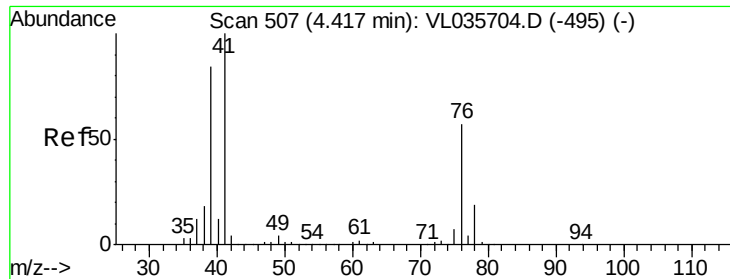


#20

Methylene Chloride
 Concen: 8.556 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Tgt Ion	Ratio	Lower	Upper
84	100		
49	93.8	69.8	104.6
51	29.4	21.8	32.8
86	65.0	52.6	78.8





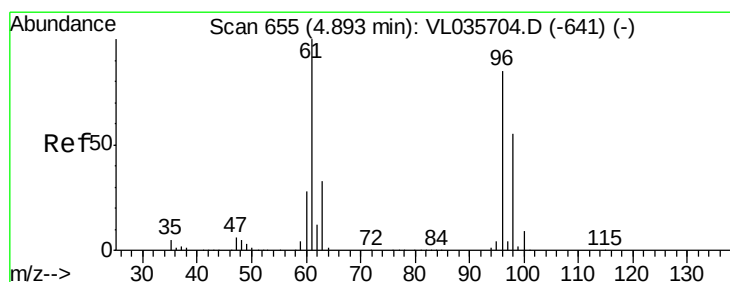
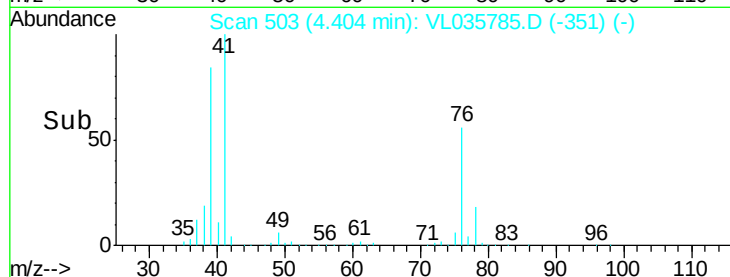
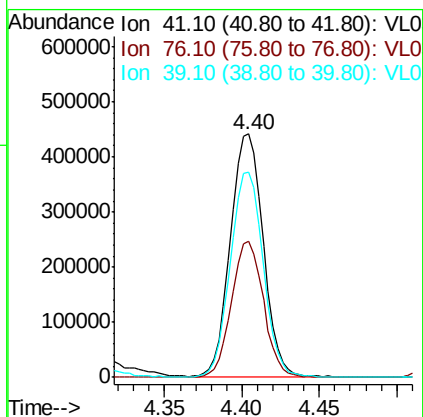
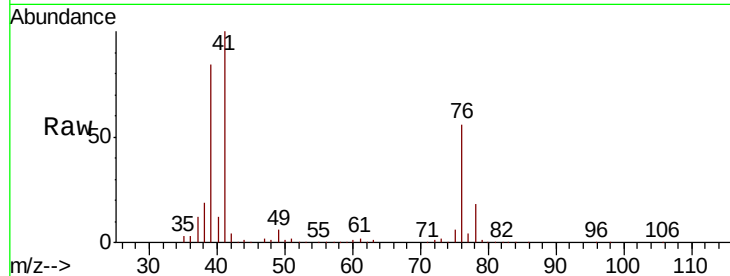
#21
Allvl Chloride
Concen: 11.497 ppbv
RT: 4.40 min Scan# 503
Delta R.T. -0.01 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	54.8	44.8	67.2
39	84.8	68.4	102.6

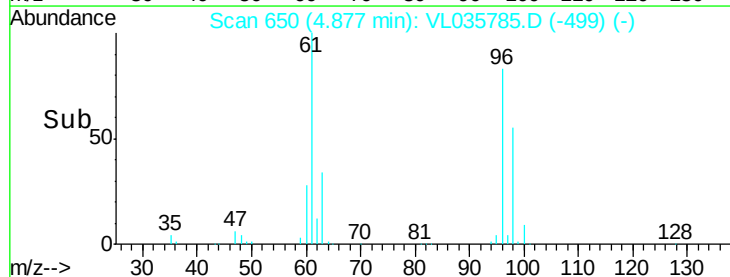
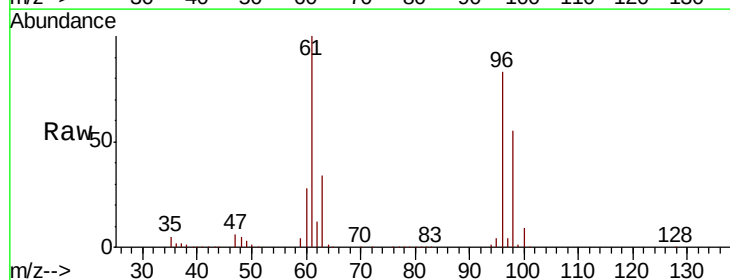
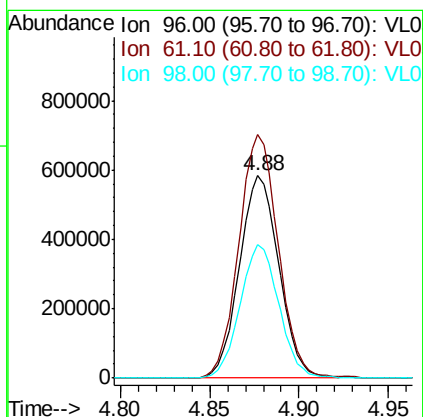
Manual Integrations
APPROVED

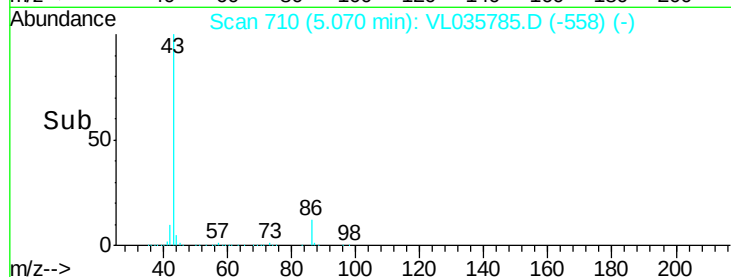
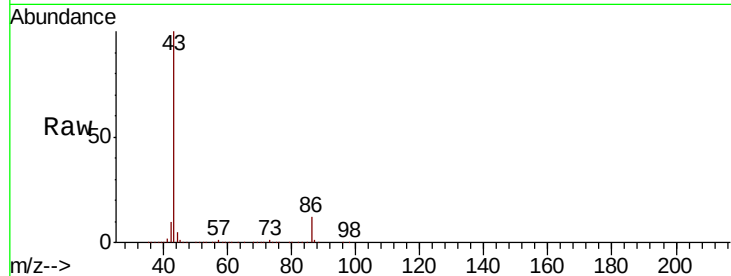
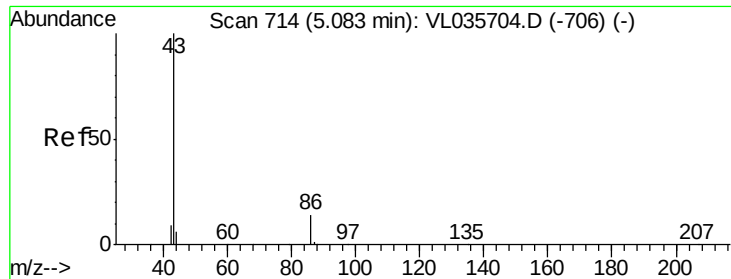
MMDadoda
10/19/2020 11:09:54 AM



#22
trans-1,2-Dichloroethene
Concen: 10.371 ppbv
RT: 4.88 min Scan# 650
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	120.5	93.7	140.5
98	66.3	51.2	76.8





#23

Vinyl Acetate

Concen: 11.862 ppbv

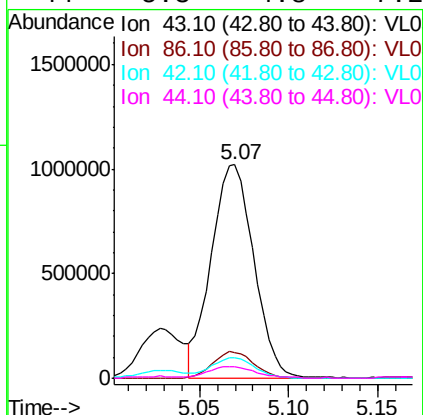
RT: 5.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	12.2	9.7	14.5	
42	9.7	7.9	11.9	
44	5.3	4.8	7.2	



Instrument :

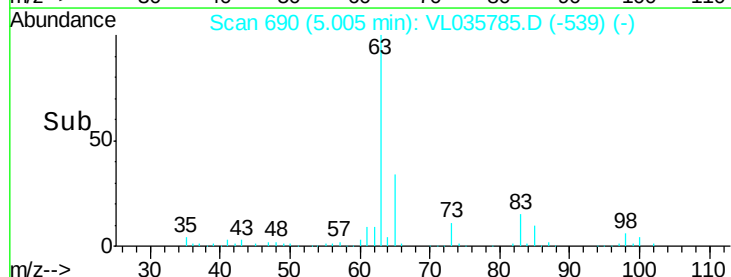
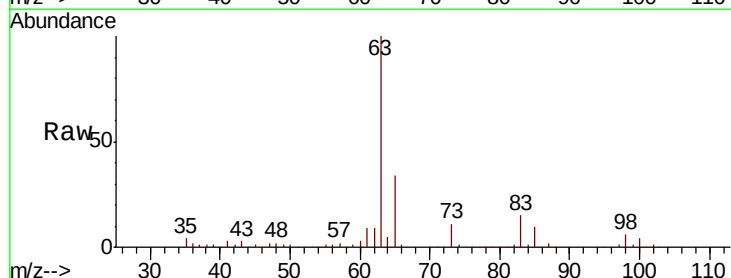
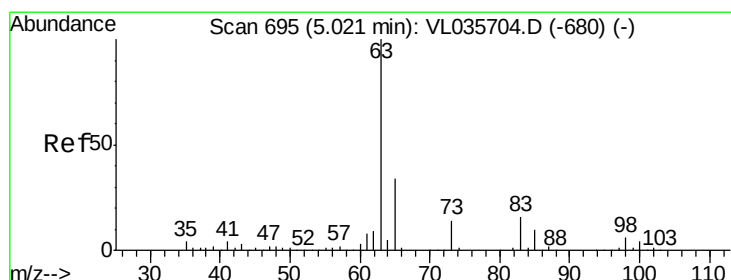
MSVOA_L

ClientSampleId :

VL1016ABS01

Manual Integrations
APPROVED

MMDadoda
10/19/2020 11:09:54 AM



#24

1,1-Dichloroethane

Concen: 10.470 ppbv

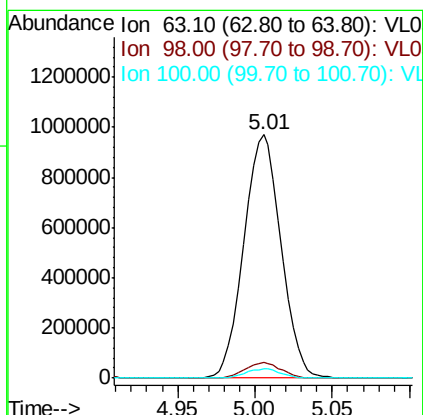
RT: 5.01 min Scan# 690

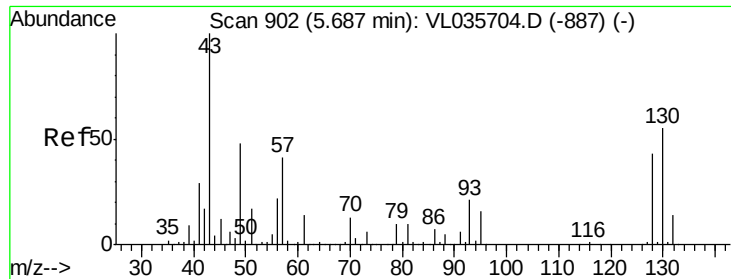
Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	6.3	3.3	9.8	
100	3.9	2.0	5.8	





#25
Ethyl Acetate
Concen: 10.576 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

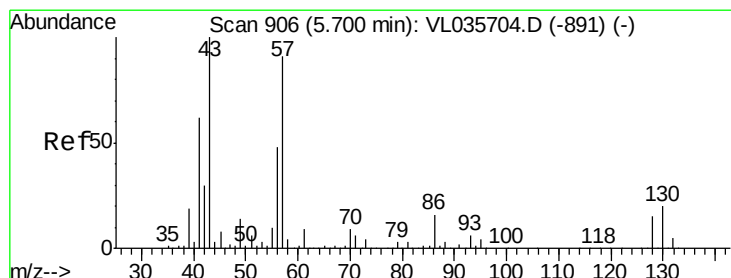
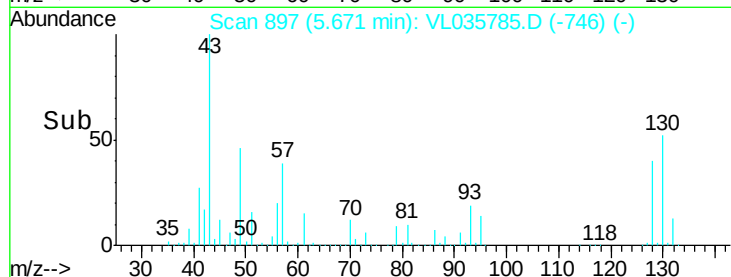
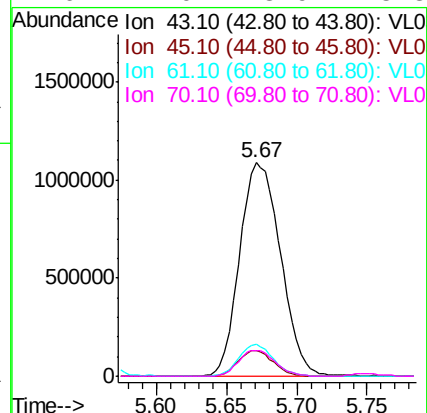
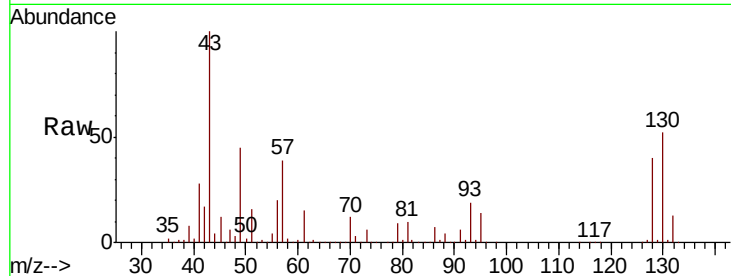
Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 43 Resp: 2209959

Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.6	12.8
61	12.9	10.4	15.6
70	11.0	8.9	13.3

Manual Integrations
APPROVED

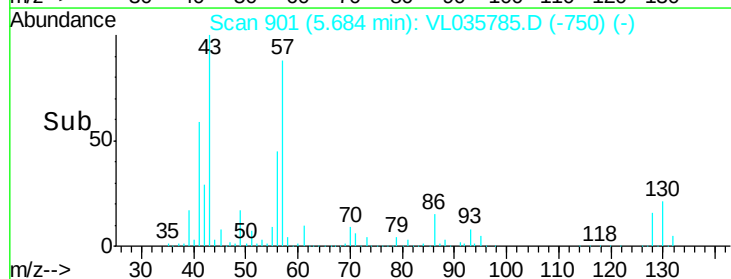
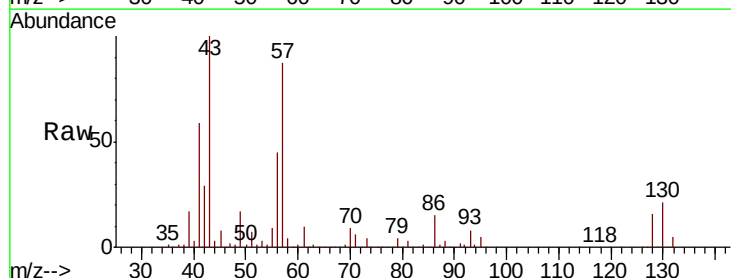
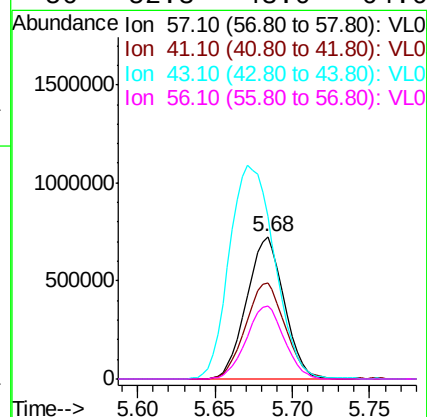
MMDadoda
10/19/2020 11:09:54 AM

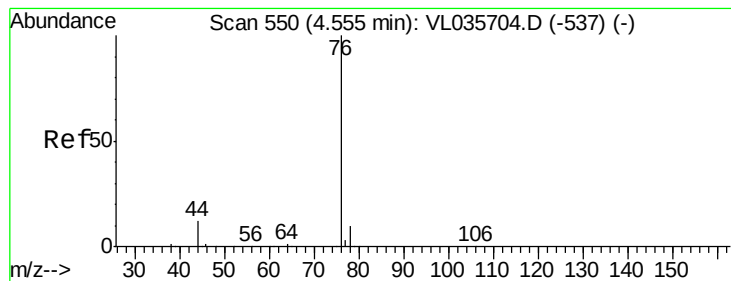


#26
Hexane
Concen: 10.674 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion: 57 Resp: 1222210

Ion	Ratio	Lower	Upper
57	100		
41	71.7	57.9	86.9
43	181.9	143.8	215.6
56	52.3	43.0	64.6





#27

Carbon Disulfide

Concen: 11.496 ppbv

RT: 4.54 min Scan# 545

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 76 Resp: 1962056

Ion Ratio Lower Upper

76 100

44 12.3 9.7 14.5

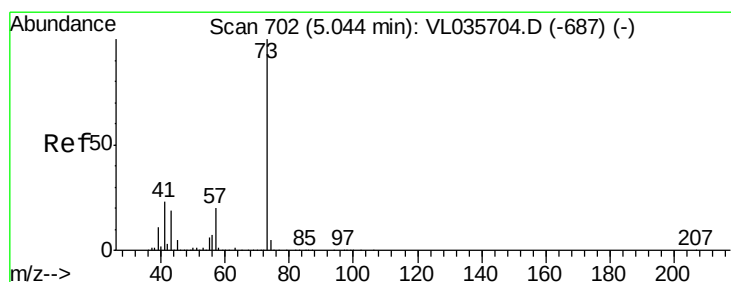
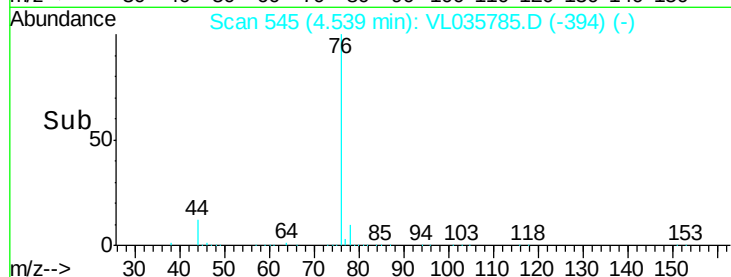
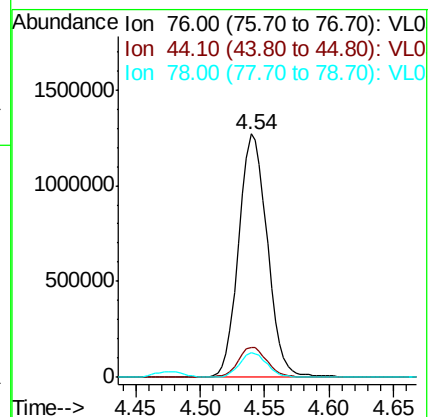
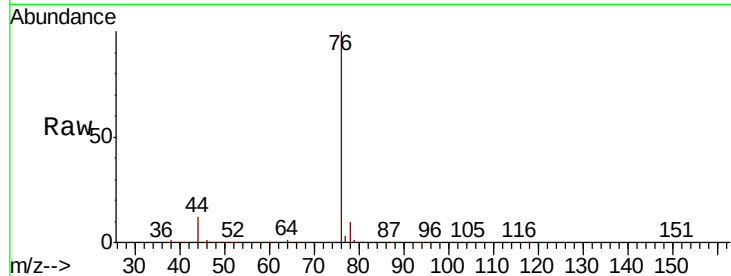
78 9.7 7.8 11.8

Manual Integrations

APPROVED

MMDadoda

10/19/2020 11:09:54 AM



#28

Methyl tert-Butyl Ether

Concen: 12.246 ppbv

RT: 5.03 min Scan# 697

Delta R.T. -0.02 min

Lab File: VL035785.D

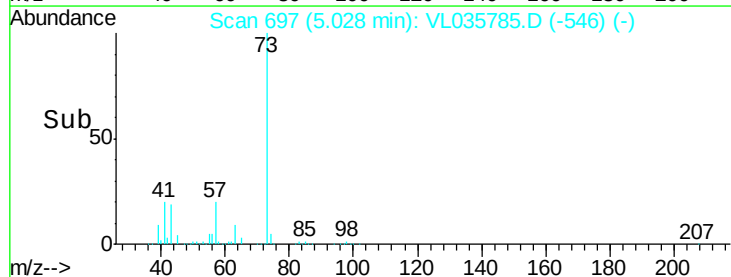
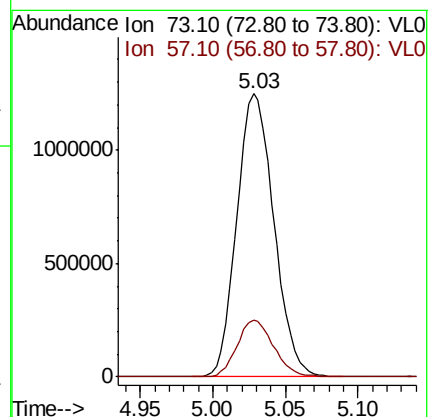
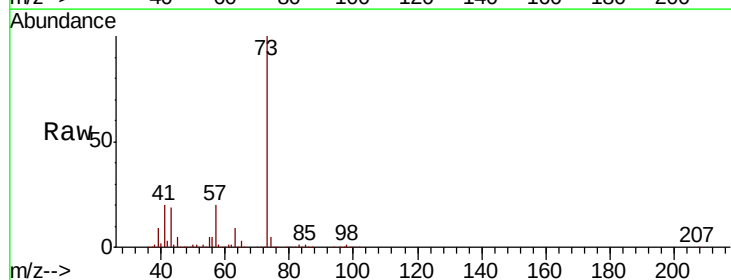
Acq: 16 Oct 2020 13:56

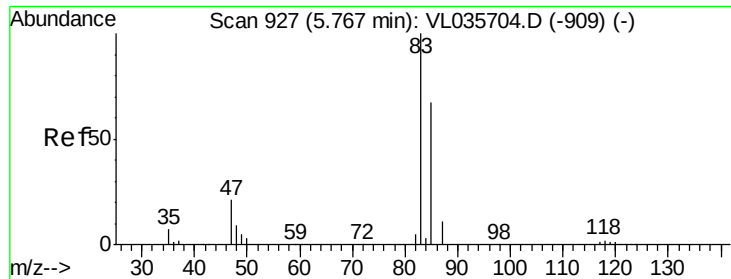
Tgt Ion: 73 Resp: 2222823

Ion Ratio Lower Upper

73 100

57 19.7 15.6 23.4





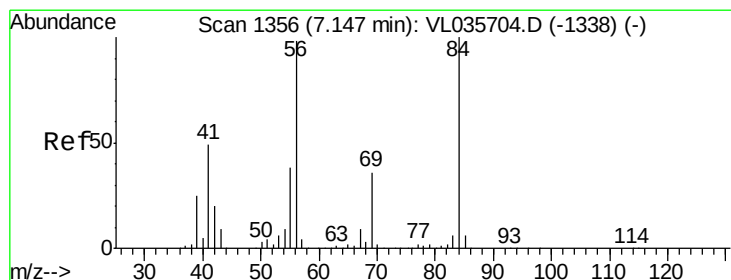
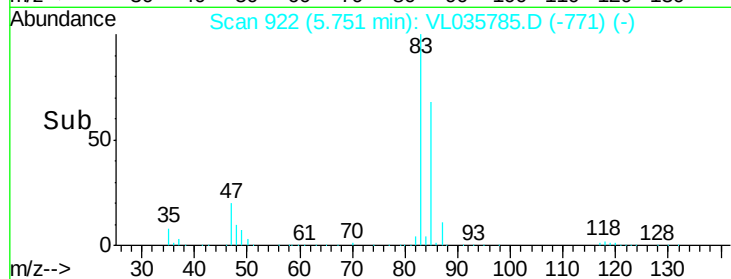
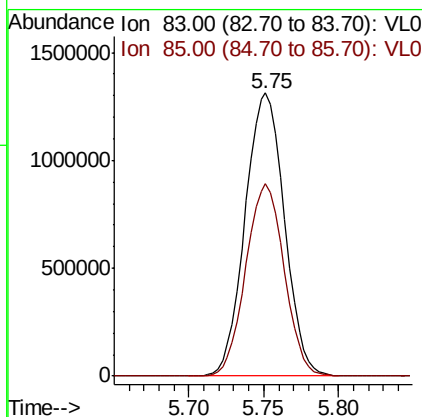
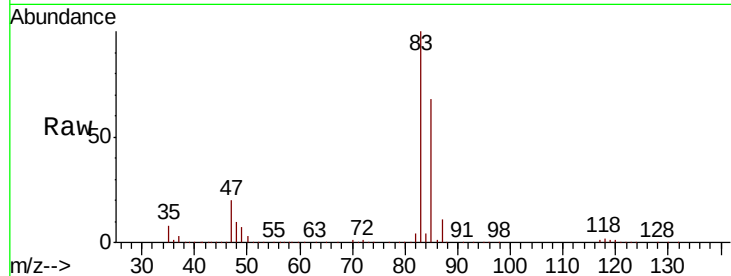
#29
Chloroform
Concen: 10.311 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 83 Resp: 2397666
Ion Ratio Lower Upper
83 100
85 67.9 54.0 81.0

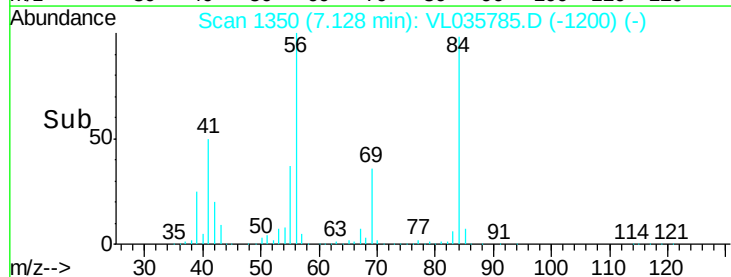
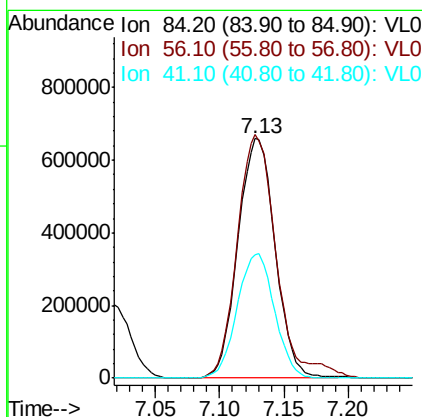
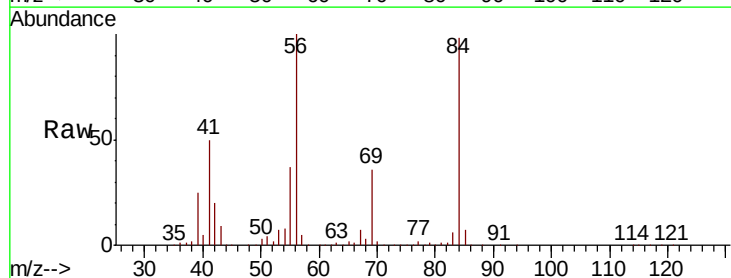
Manual Integrations
APPROVED

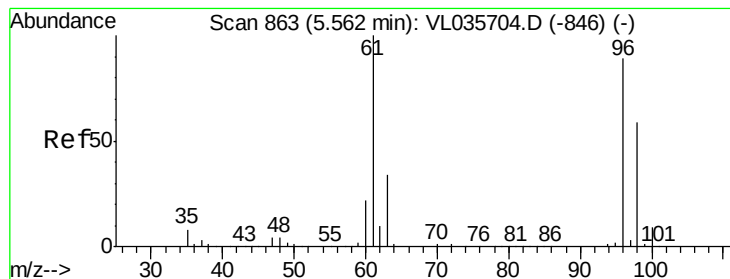
MMDadoda
10/19/2020 11:09:54 AM



#30
Cyclohexane
Concen: 11.712 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion: 84 Resp: 1323128
Ion Ratio Lower Upper
84 100
56 107.1 84.6 127.0
41 51.9 41.1 61.7





#31

cis-1,2-Dichloroethene

Concen: 11.943 ppbv

RT: 5.55 min Scan# 858

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 61 Resp: 1320138

Ion Ratio Lower Upper

61 100

96 90.4 71.4 107.2

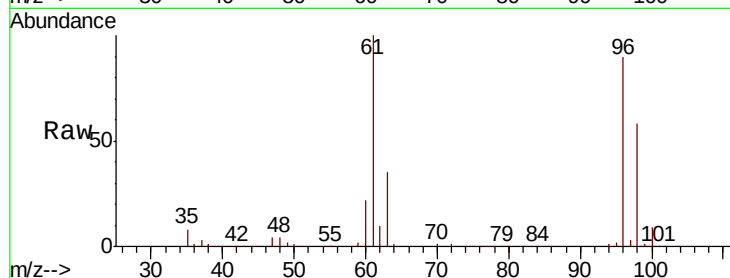
98 58.3 47.4 71.2

Manual Integrations

APPROVED

MMDadoda

10/19/2020 11:09:54 AM

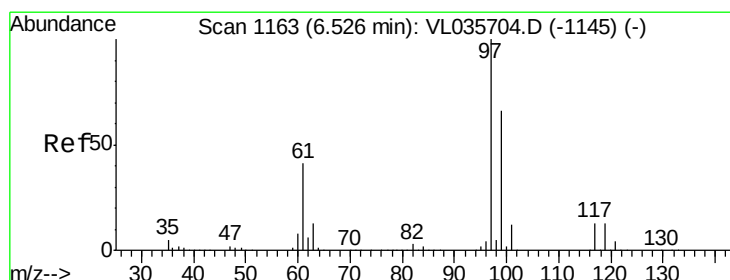
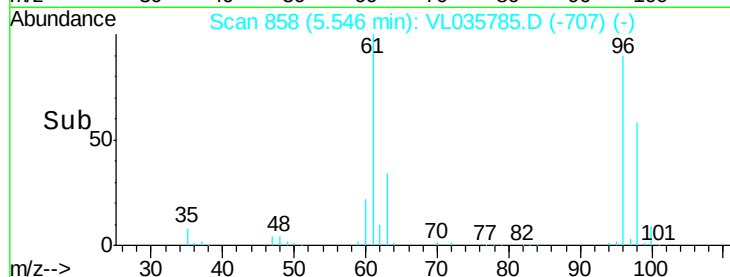
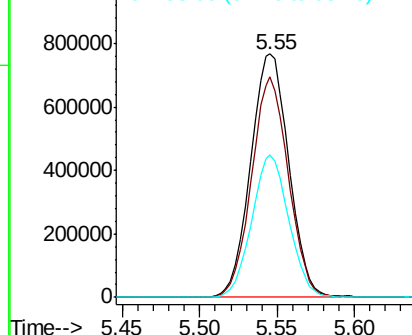


Abundance

Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 11.566 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

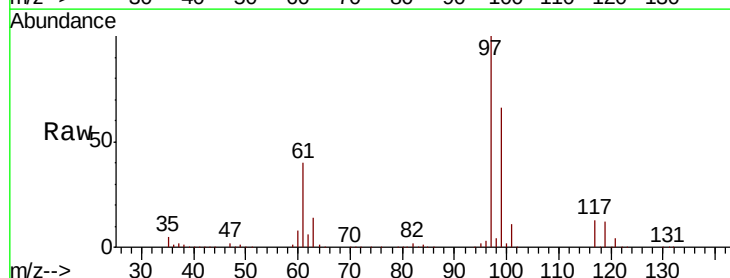
Tgt Ion: 97 Resp: 2370851

Ion Ratio Lower Upper

97 100

99 65.6 52.7 79.1

61 40.2 32.7 49.1

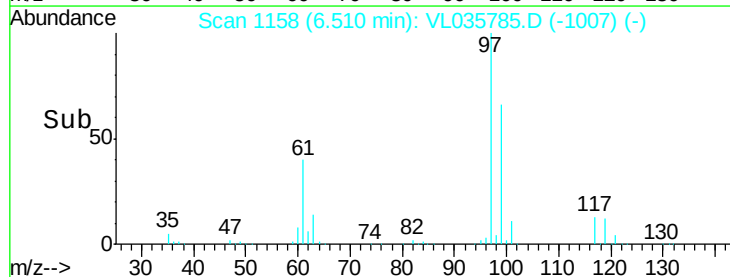
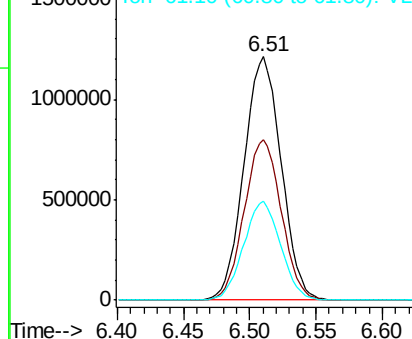


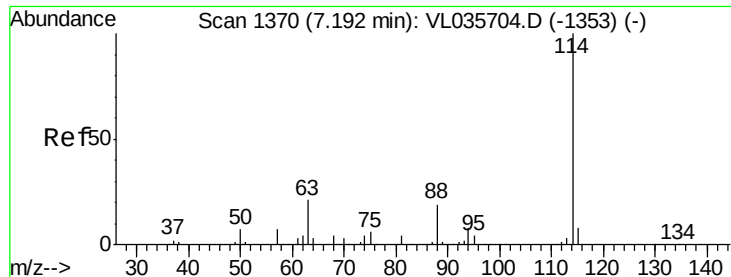
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





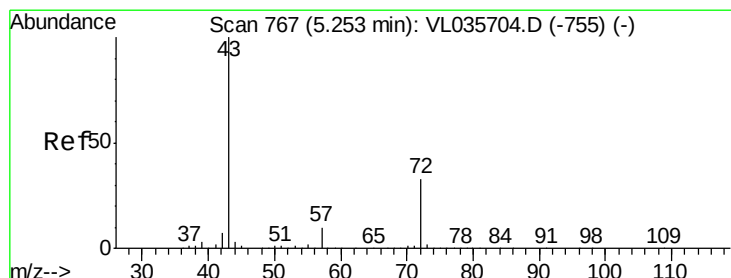
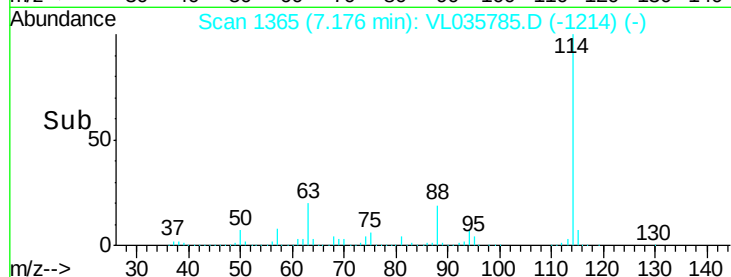
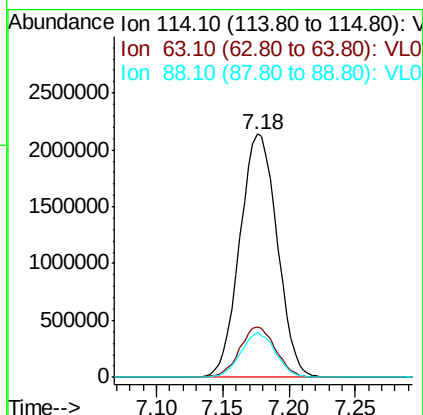
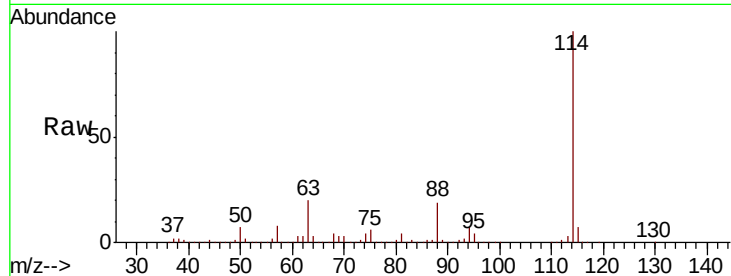
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion: 114 Resp: 4189857
 Ion Ratio Lower Upper
 114 100
 63 20.1 16.1 24.1
 88 17.4 14.1 21.1

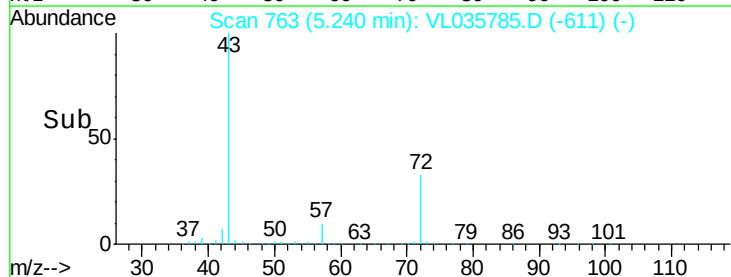
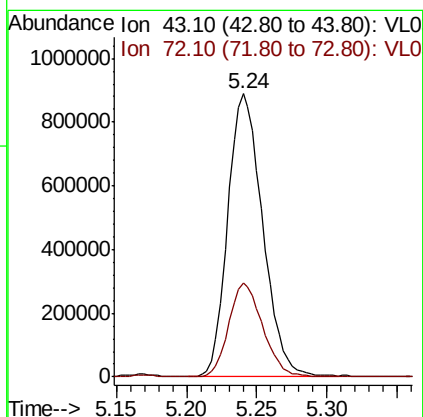
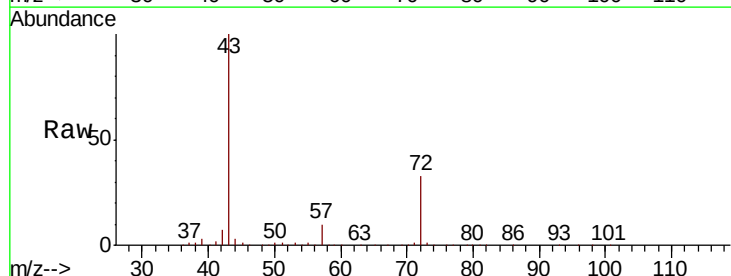
Manual Integrations
 APPROVED

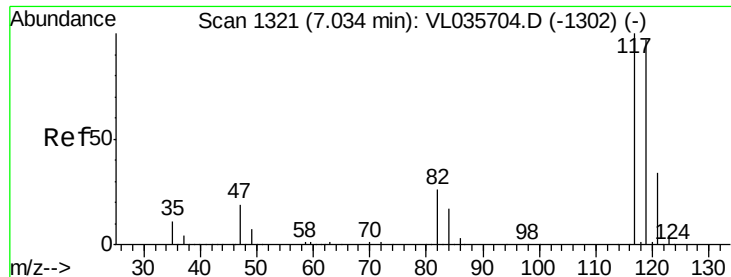
MMDadoda
 10/19/2020 11:09:54 AM



#34
 2-Butanone
 Concen: 11.069 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.01 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Tgt Ion: 43 Resp: 1533935
 Ion Ratio Lower Upper
 43 100
 72 32.4 26.1 39.1





#35

Carbon Tetrachloride

Concen: 10.994 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:117 Resp: 2401716

Ion Ratio Lower Upper

117 100

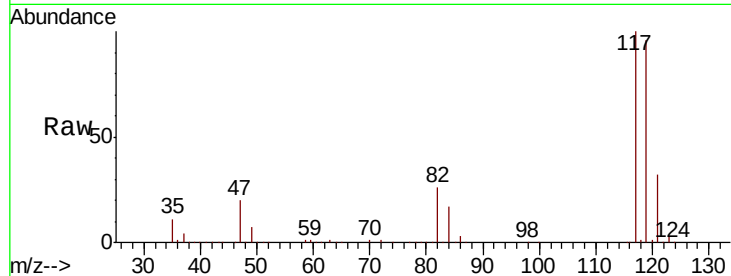
119 96.4 77.7 116.5

121 32.2 26.9 40.3

Manual Integrations
APPROVED

MMDadoda

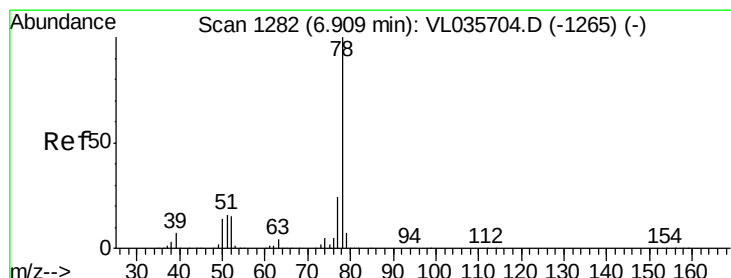
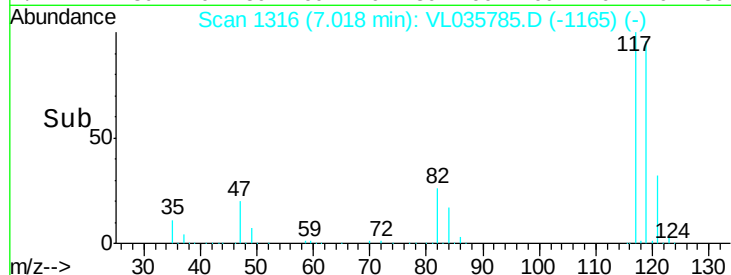
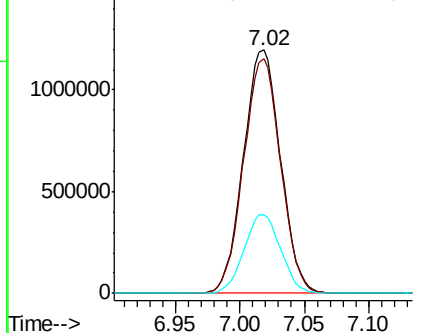
10/19/2020 11:09:54 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.256 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

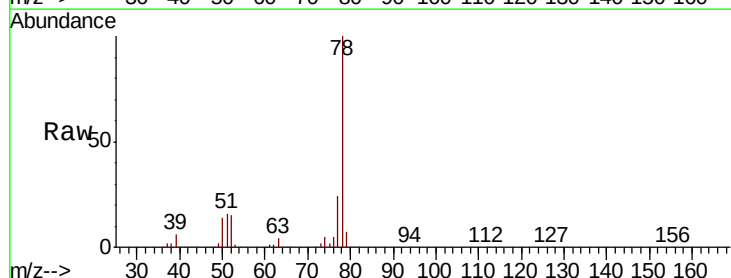
Tgt Ion: 78 Resp: 3073129

Ion Ratio Lower Upper

78 100

77 24.4 19.3 28.9

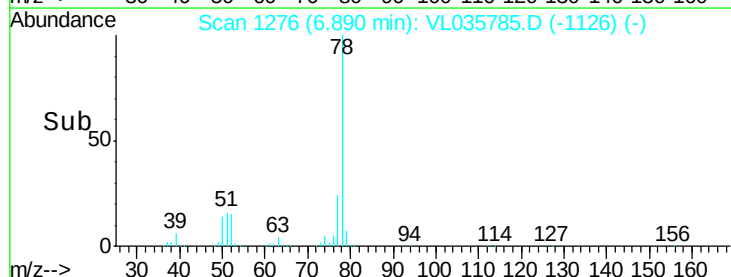
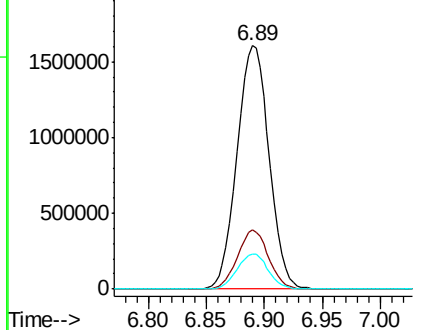
50 14.4 11.6 17.4

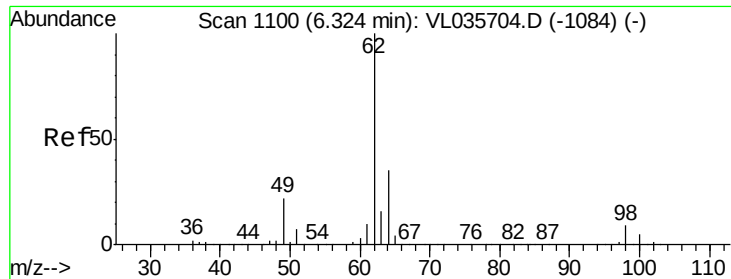


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





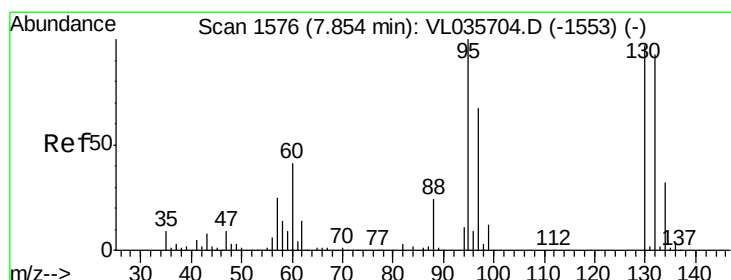
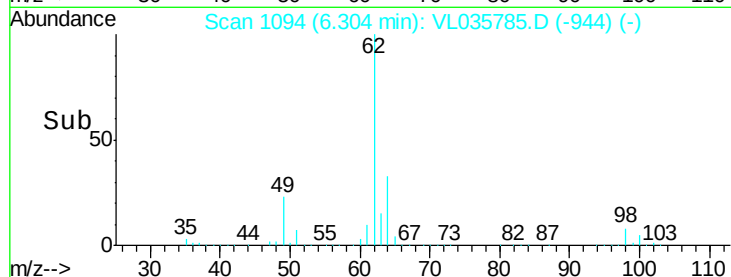
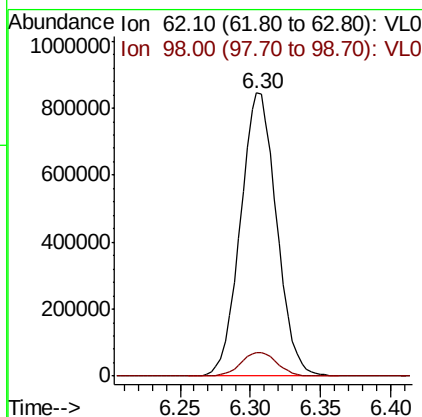
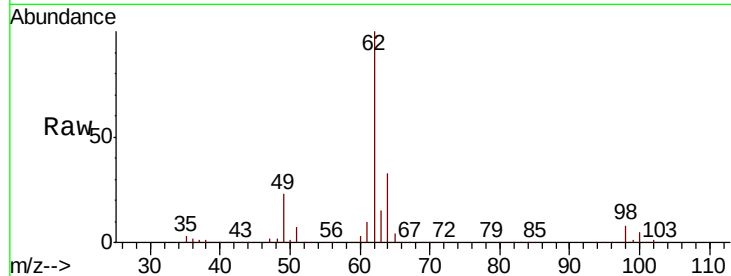
#37
 1,2-Dichloroethane
 Concen: 10.669 ppbv
 RT: 6.30 min Scan# 1094
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion: 62 Resp: 1518149
 Ion Ratio Lower Upper
 62 100
 98 8.5 6.9 10.3

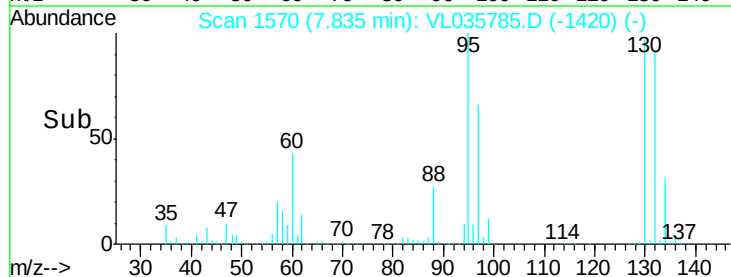
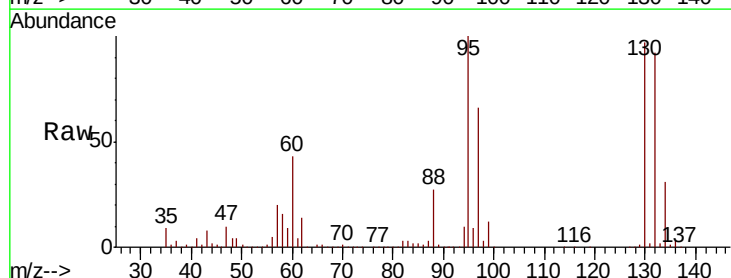
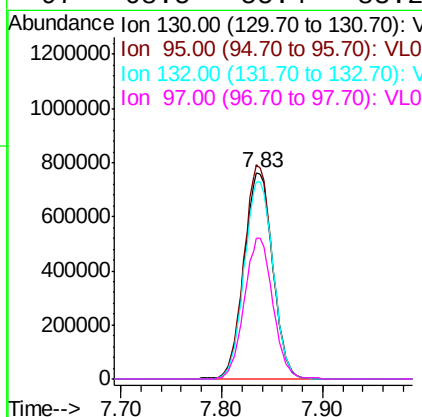
Manual Integrations
 APPROVED

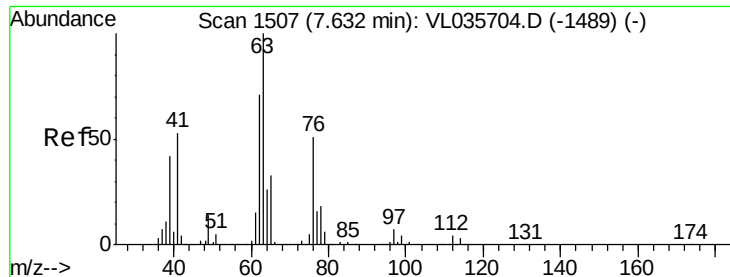
MMDadoda
 10/19/2020 11:09:54 AM



#38
 Trichloroethene
 Concen: 10.937 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Tgt Ion: 130 Resp: 1489578
 Ion Ratio Lower Upper
 130 100
 95 103.7 82.4 123.6
 132 95.5 76.8 115.2
 97 68.5 55.4 83.2





#39

1,2-Dichloropropane

Concen: 10.801 ppbv

RT: 7.61 min Scan# 1501

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 63 Resp: 1068818

Ion Ratio Lower Upper

63 100

41 54.0 42.6 63.8

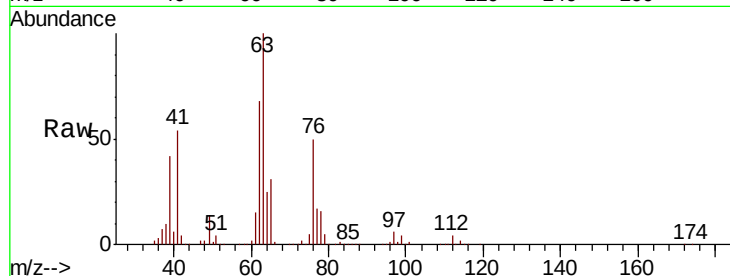
62 68.0 56.5 84.7

Manual Integrations

APPROVED

MMDadoda

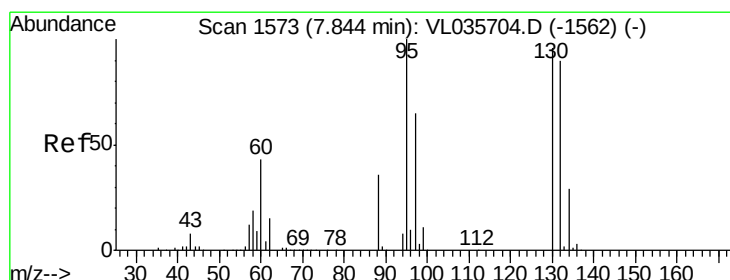
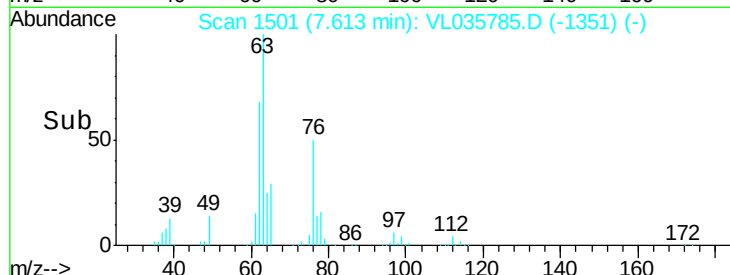
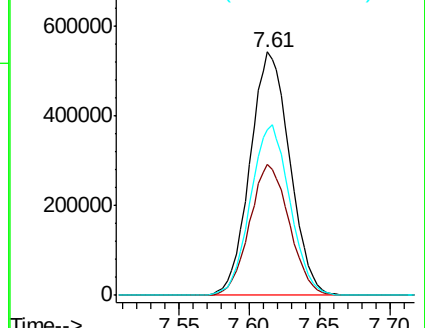
10/19/2020 11:09:54 AM



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.836 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Tgt Ion: 88 Resp: 535627

Ion Ratio Lower Upper

88 100

58 92.4 76.2 114.4

43 147.3 123.4 185.2

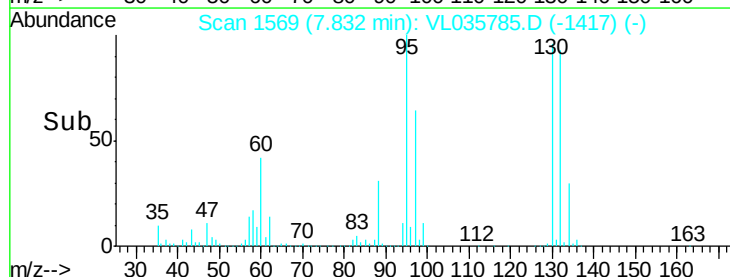
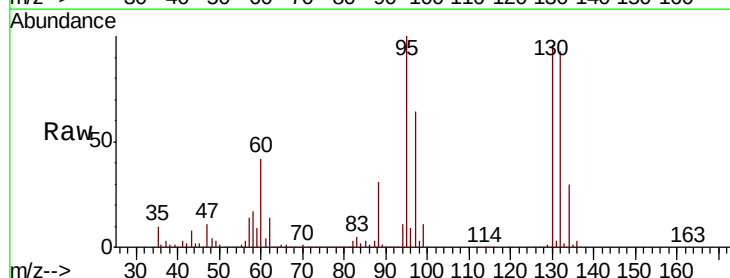
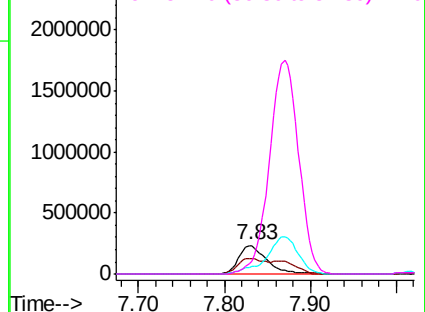
57 775.1 652.5 978.7

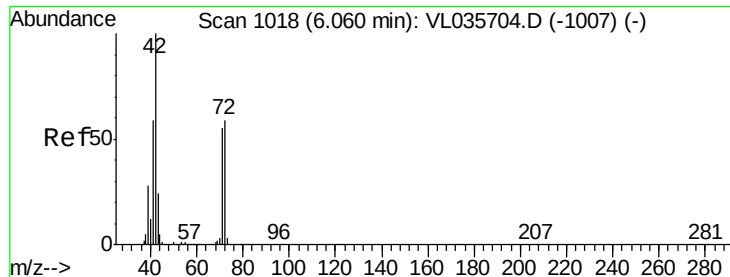
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 12.360 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. -0.01 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

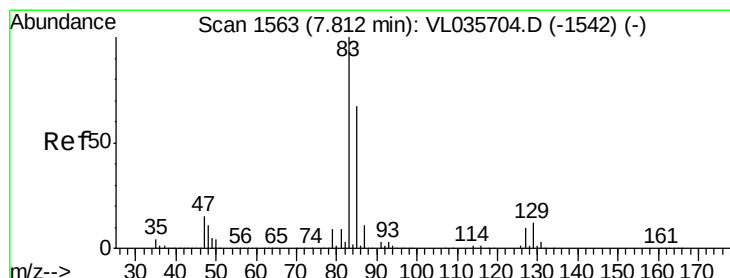
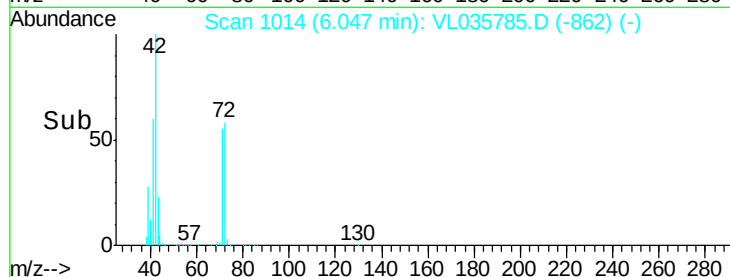
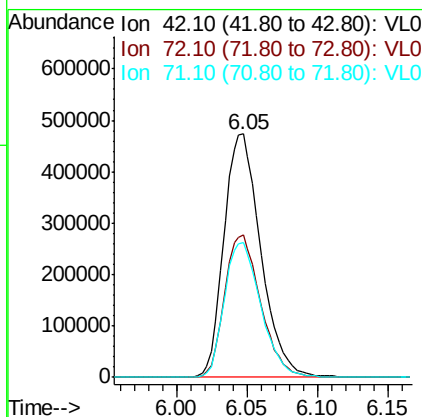
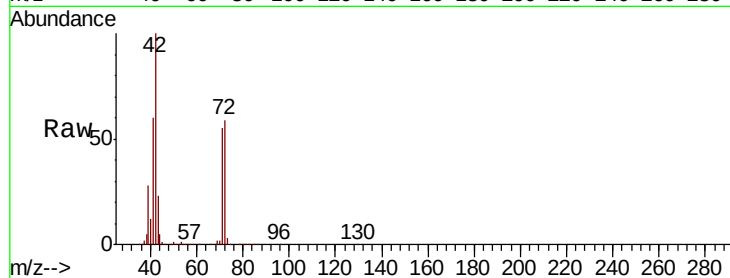
ClientSampleId :

VL1016ABS01

Tot Ion	Ion	Ratio	Lower	Upper
862948	42	100		
	72	57.9	46.2	69.4
	71	55.3	44.2	66.4

Manual Integrations
APPROVED

MMDadoda
10/19/2020 11:09:54 AM



#42

Bromodichloromethane

Concen: 11.052 ppbv

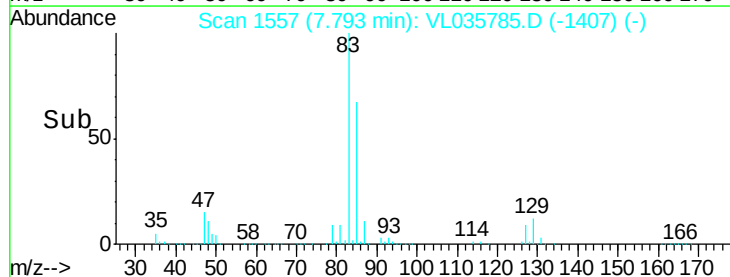
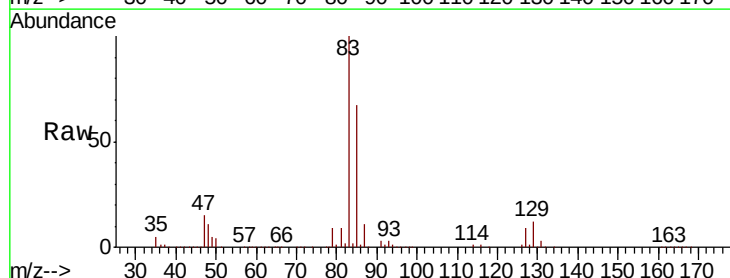
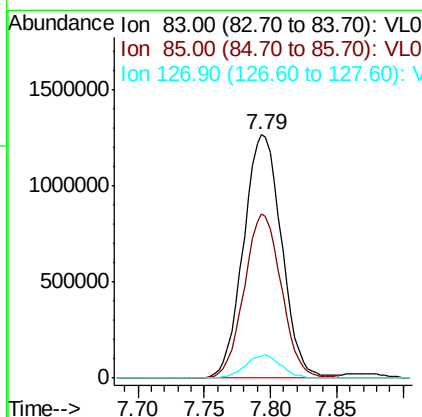
RT: 7.79 min Scan# 1557

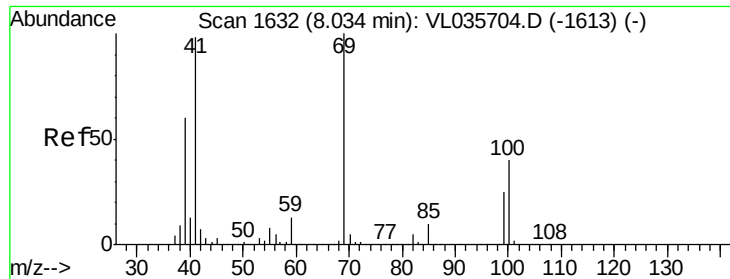
Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Tgt Ion	Ion	Ratio	Lower	Upper
2533371	83	100		
	85	67.3	53.4	80.0
	127	9.2	7.8	11.6





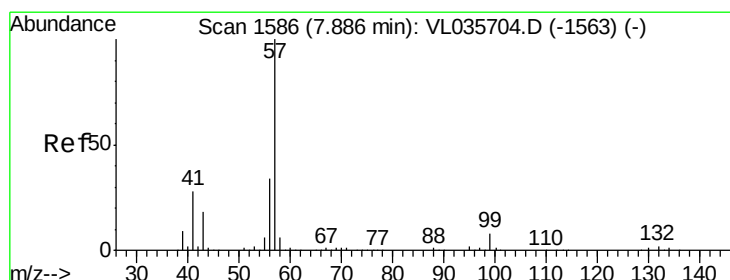
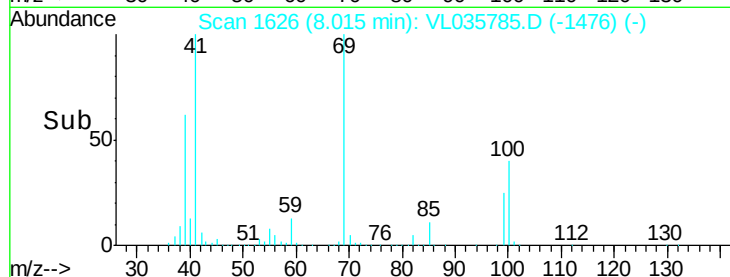
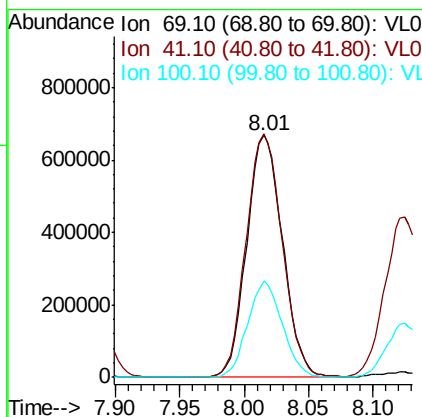
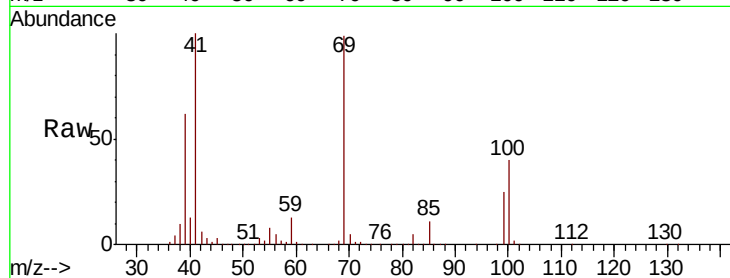
#43
Methyl Methacrylate
Concen: 11.939 ppbv
RT: 8.01 min Scan# 1626
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 69 Resp: 1296344
Ion Ratio Lower Upper
69 100
41 101.4 79.8 119.6
100 38.5 30.6 46.0

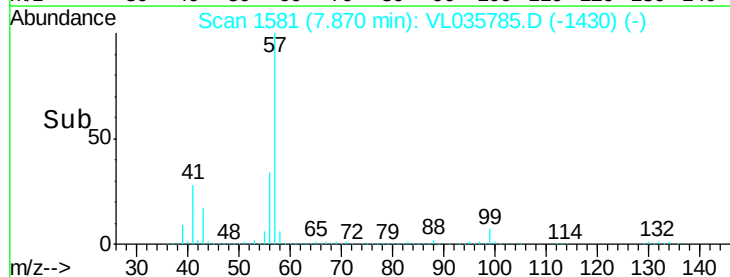
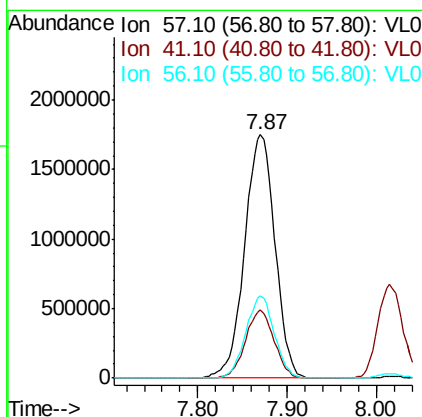
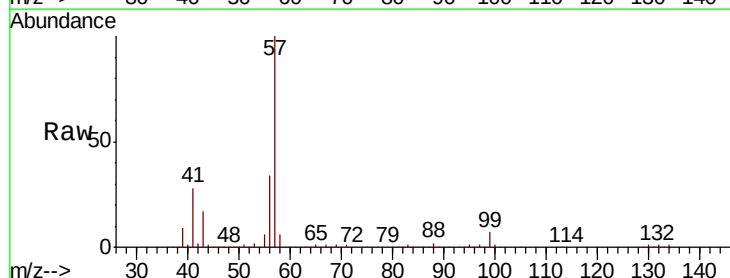
Manual Integrations
APPROVED

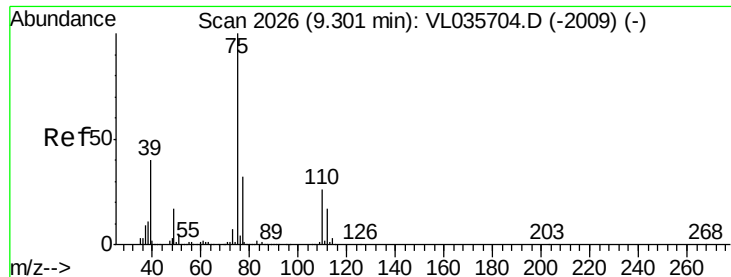
MMDadoda
10/19/2020 11:09:54 AM



#44
2,2,4-Trimethylpentane
Concen: 10.597 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion: 57 Resp: 4151471
Ion Ratio Lower Upper
57 100
41 26.3 21.2 31.8
56 31.8 25.8 38.8





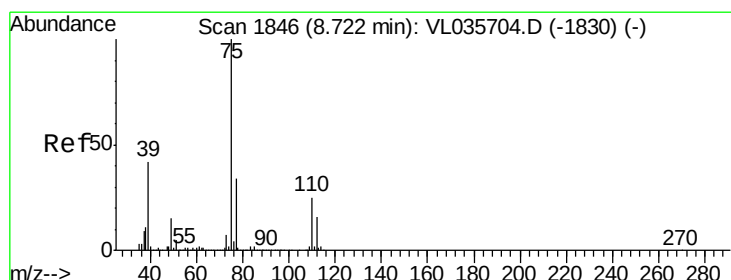
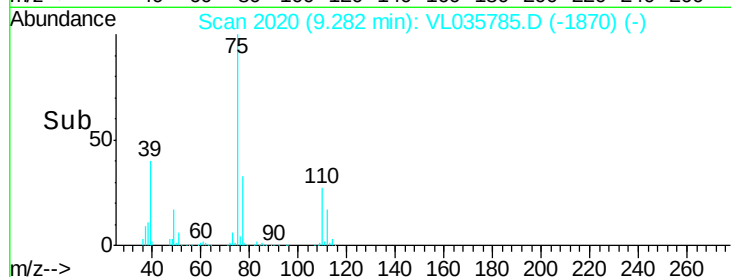
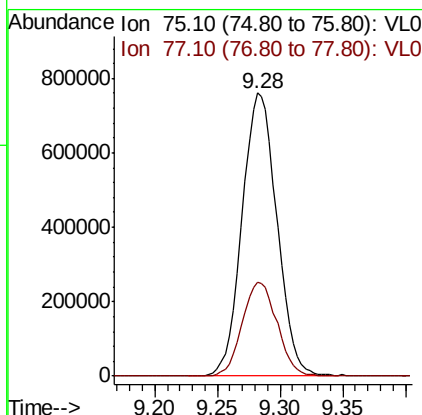
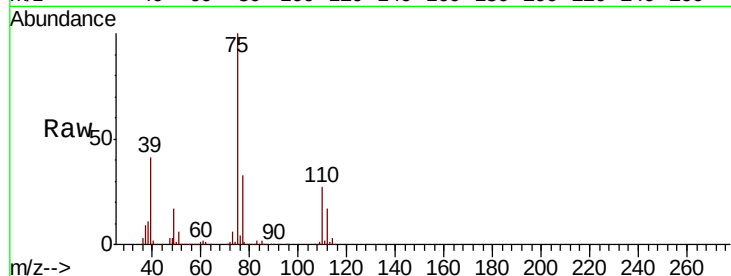
#45
 t-1,3-Dichloropropene
 Concen: 13.427 ppbv
 RT: 9.28 min Scan# 2020
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleID :
 VL1016ABS01

Tot Ion: 75 Resp: 1471898
 Ion Ratio Lower Upper
 75 100
 77 33.0 25.9 38.9

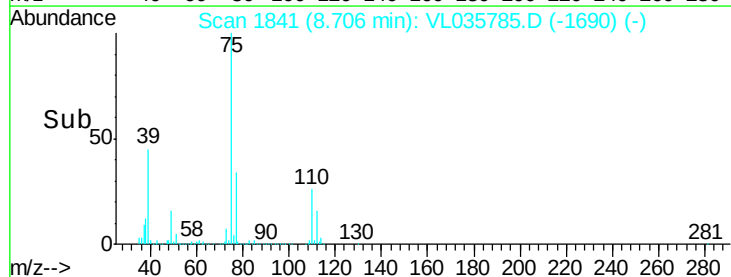
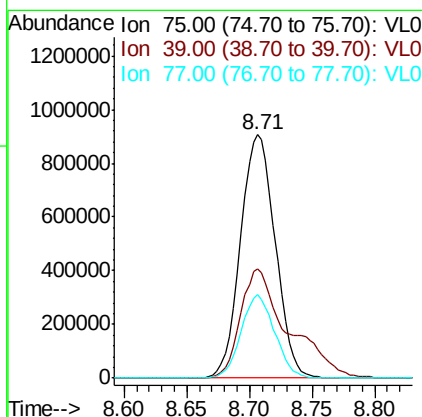
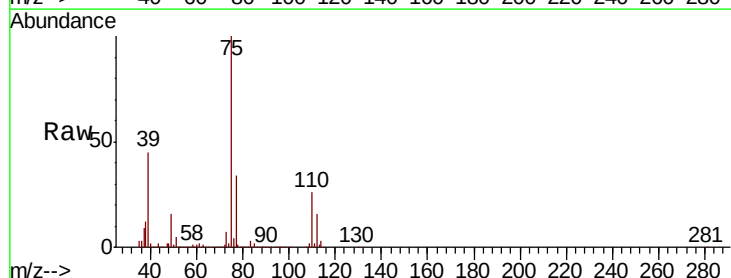
Manual Integrations
 APPROVED

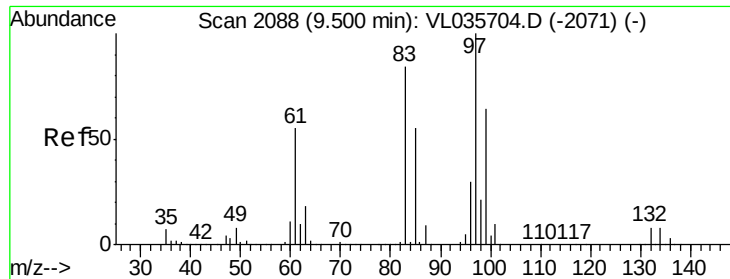
MMDadoda
 10/19/2020 11:09:54 AM



#46
 cis-1,3-Dichloropropene
 Concen: 12.961 ppbv
 RT: 8.71 min Scan# 1841
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Tgt Ion: 75 Resp: 1751458
 Ion Ratio Lower Upper
 75 100
 39 44.7 33.9 50.9
 77 34.3 27.4 41.0





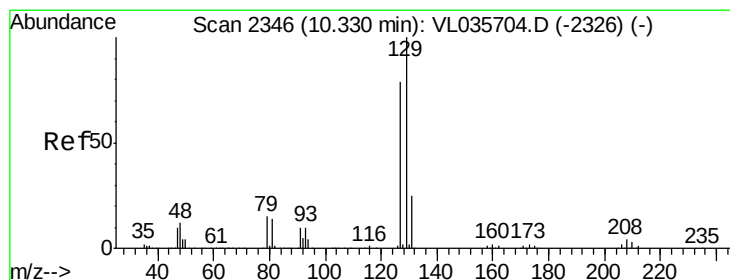
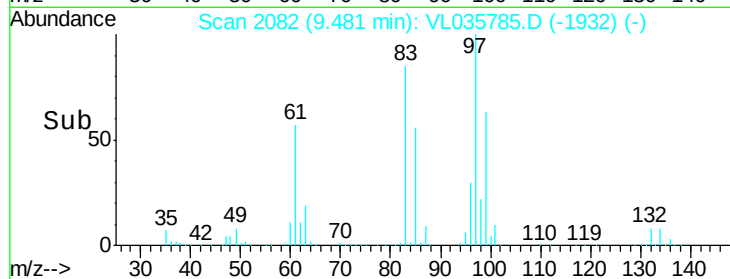
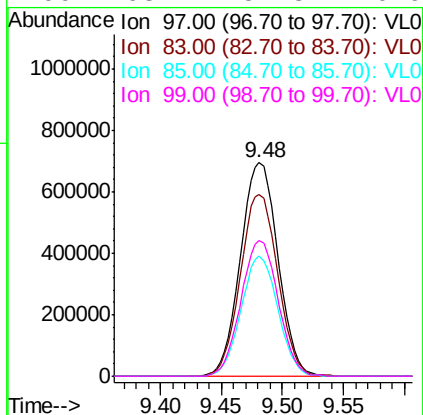
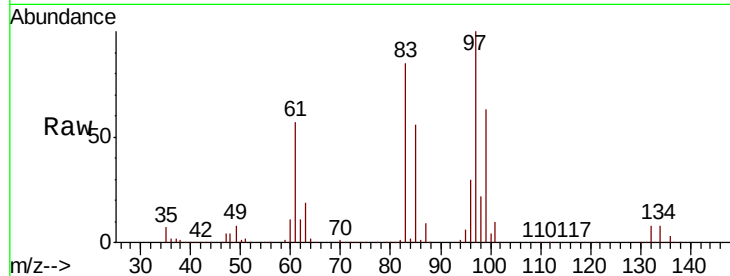
#47
 1,1,2-Trichloroethane
 Concen: 10.412 ppbv
 RT: 9.48 min Scan# 2082
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.9	67.1	100.7
85	56.4	43.9	65.9
99	63.4	51.3	76.9

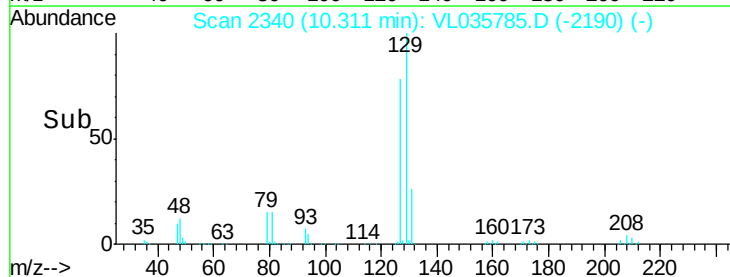
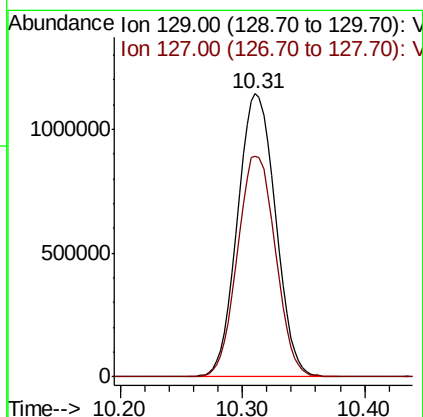
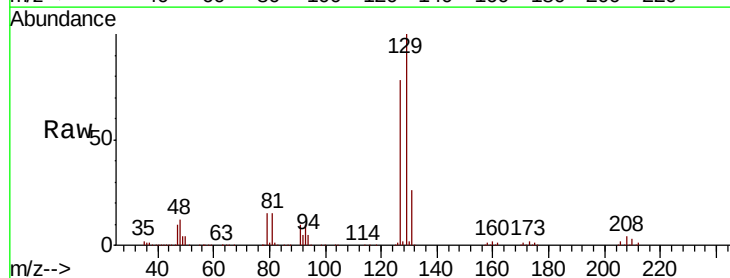
Manual Integrations
 APPROVED

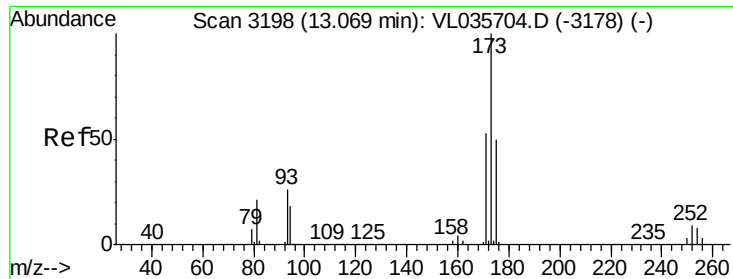
MMDadoda
 10/19/2020 11:09:54 AM



#48
 Dibromochloromethane
 Concen: 11.442 ppbv
 RT: 10.31 min Scan# 2340
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.4	118.1





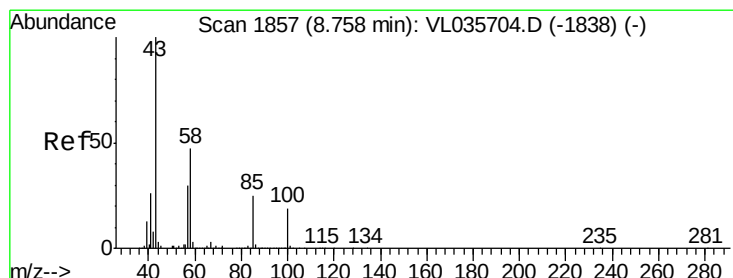
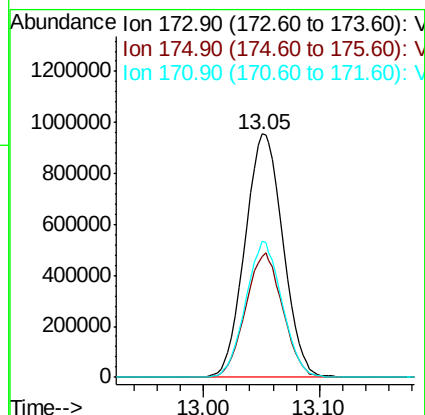
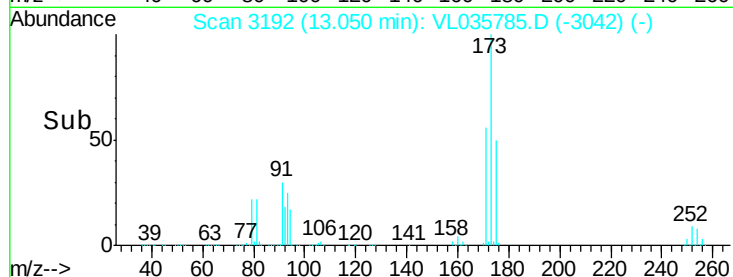
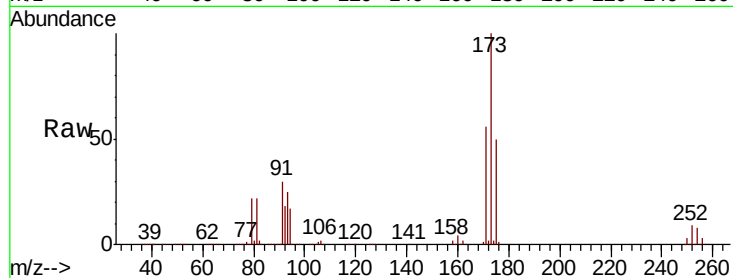
#49
Bromoform
Concen: 11.909 ppbv
RT: 13.05 min Scan# 3192
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion:173 Resp: 2179864
Ion Ratio Lower Upper
173 100
175 50.0 39.8 59.6
171 53.7 42.8 64.2

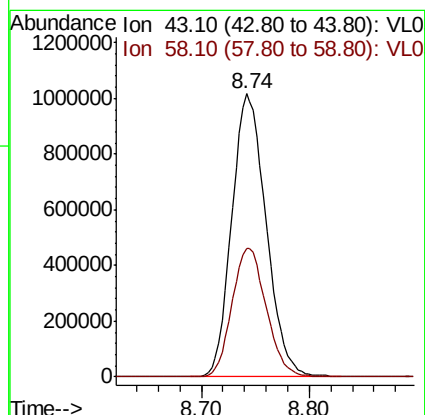
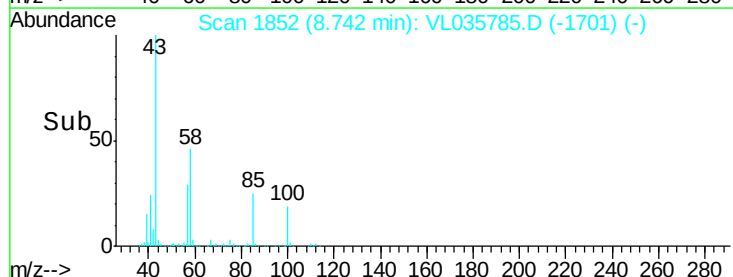
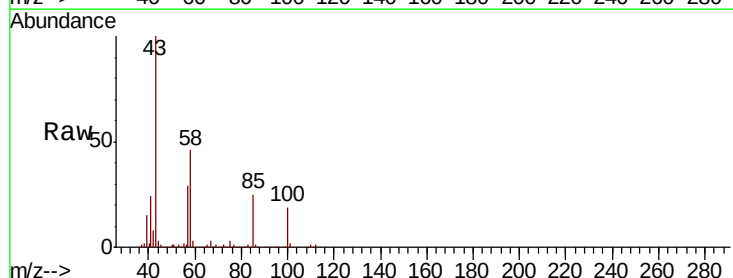
Manual Integrations
APPROVED

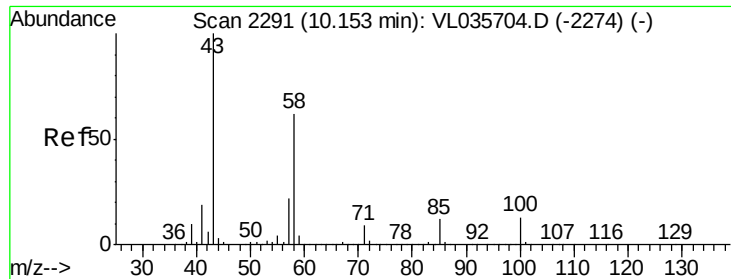
MMDadoda
10/19/2020 11:09:54 AM



#50
4-Methyl-2-Pentanone
Concen: 11.115 ppbv
RT: 8.74 min Scan# 1852
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion: 43 Resp: 2249825
Ion Ratio Lower Upper
43 100
58 45.6 36.6 54.8





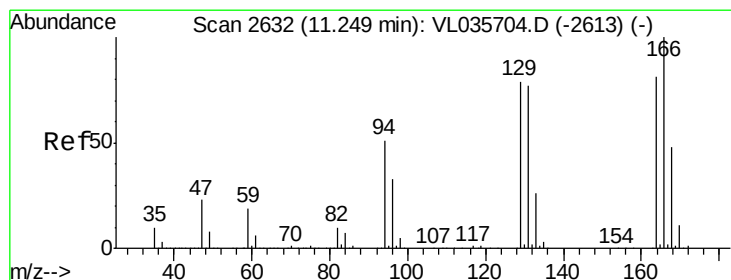
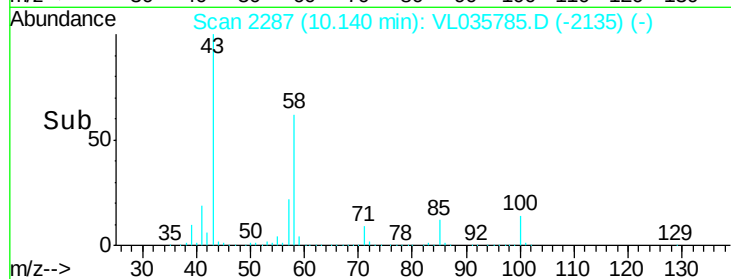
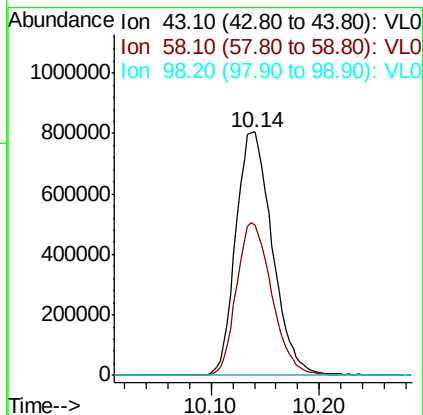
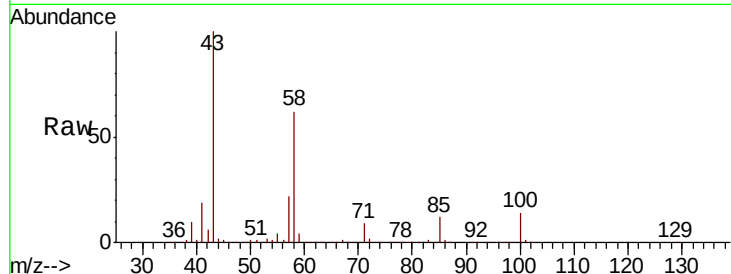
#51
2-Hexanone
Concen: 11.562 ppbv
RT: 10.14 min Scan# 2287
Delta R.T. -0.01 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 43 Resp: 1885590
Ion Ratio Lower Upper
43 100
58 61.0 48.7 73.1
98 0.6 0.7 1.1#

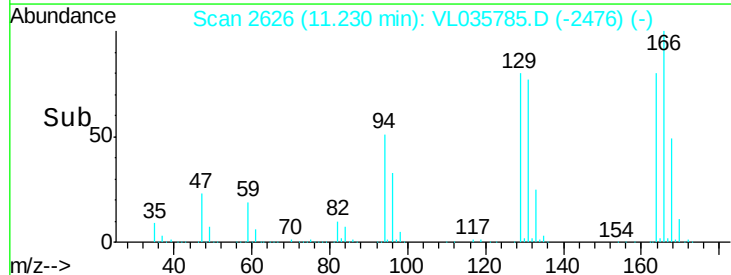
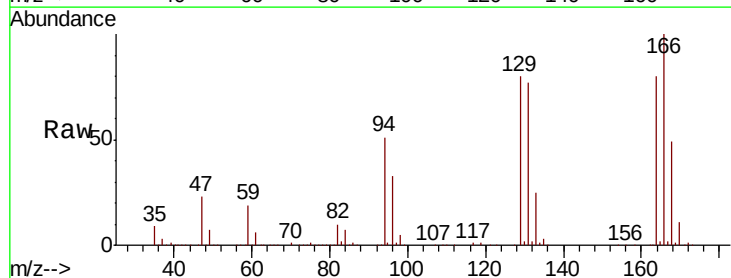
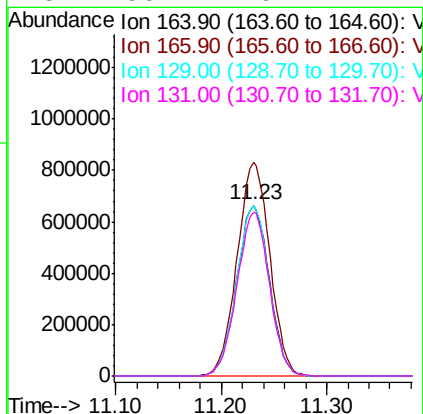
Manual Integrations
APPROVED

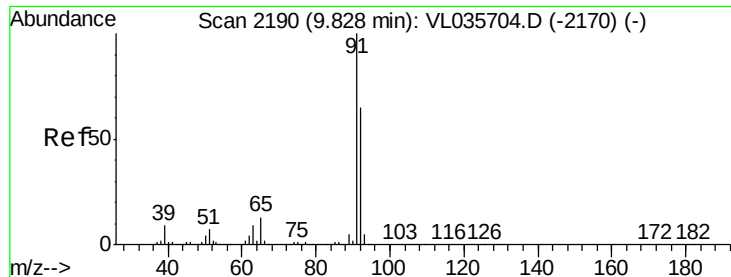
MMDadoda
10/19/2020 11:09:54 AM



#52
Tetrachloroethene
Concen: 10.869 ppbv
RT: 11.23 min Scan# 2626
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion:164 Resp: 1426918
Ion Ratio Lower Upper
164 100
166 125.4 98.7 148.1
129 99.8 78.4 117.6
131 96.1 76.2 114.2





#53

Toluene

Concen: 11.822 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 91 Resp: 3805841

Ion Ratio Lower Upper

91 100

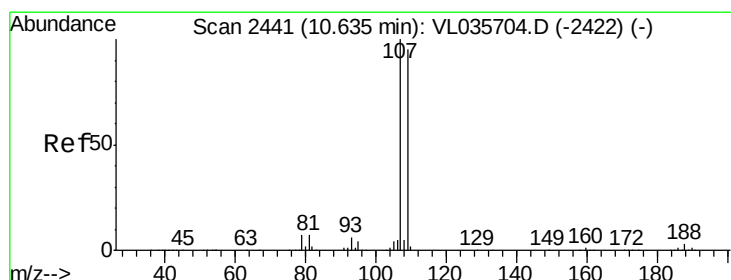
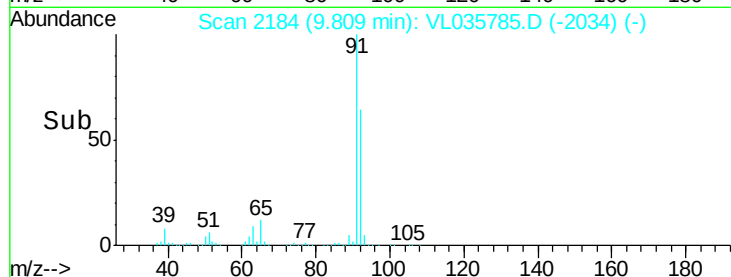
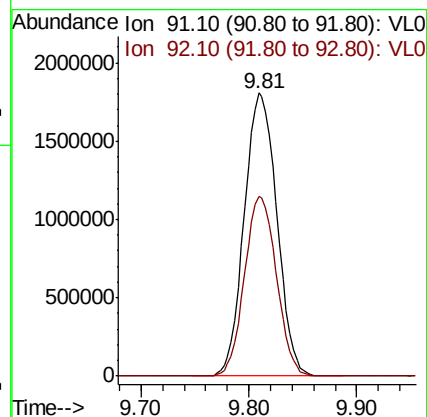
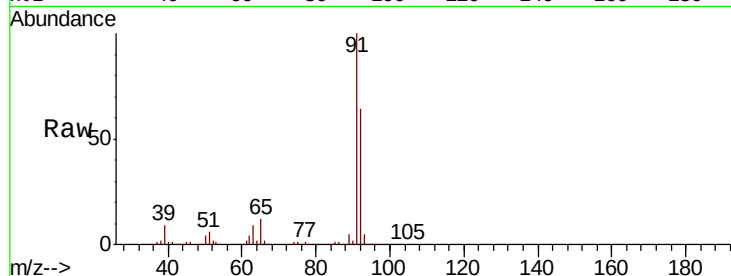
92 62.2 50.0 75.0

Manual Integrations

APPROVED

MMDadoda

10/19/2020 11:09:54 AM



#54

1,2-Dibromoethane

Concen: 10.824 ppbv

RT: 10.62 min Scan# 2436

Delta R.T. -0.02 min

Lab File: VL035785.D

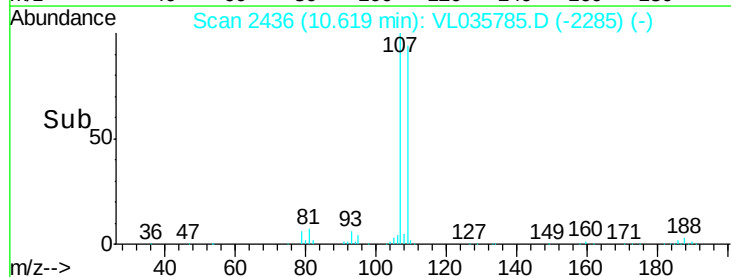
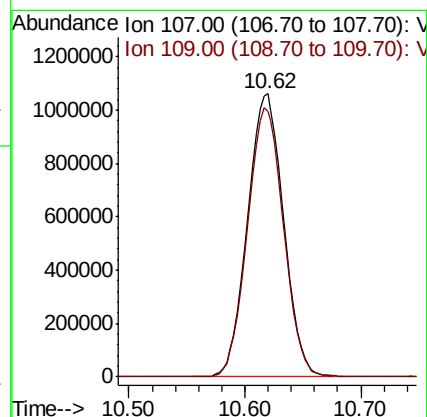
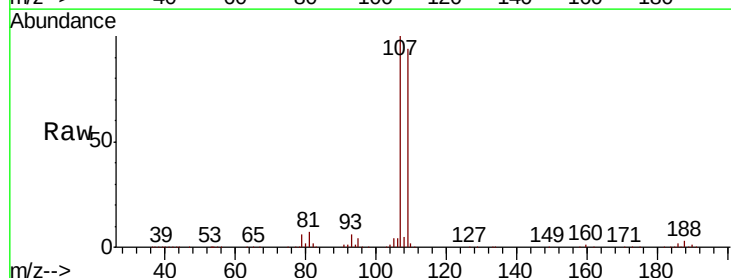
Acq: 16 Oct 2020 13:56

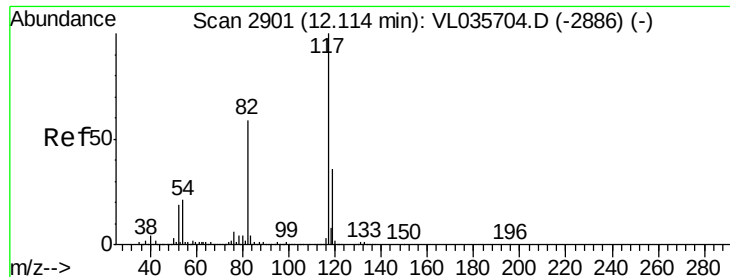
Tgt Ion: 107 Resp: 2297214

Ion Ratio Lower Upper

107 100

109 93.9 76.0 114.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.10 min Scan# 2895

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:117 Resp: 4216195

Ion Ratio Lower Upper

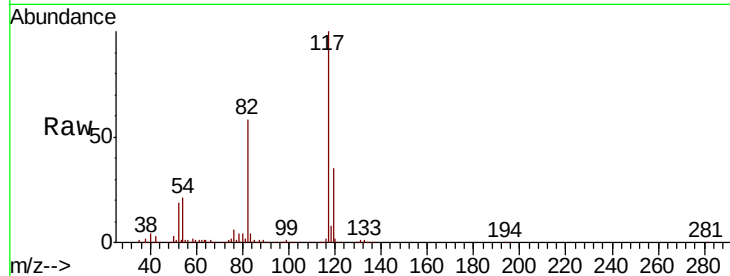
117 100

82 57.3 46.1 69.1

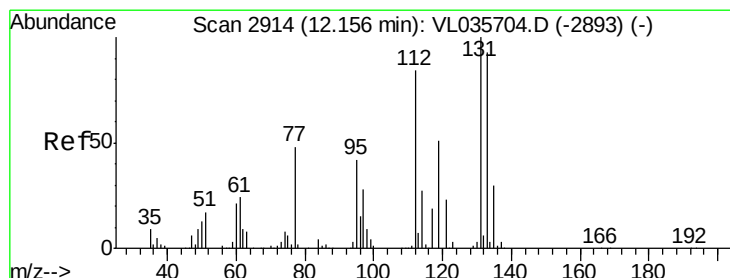
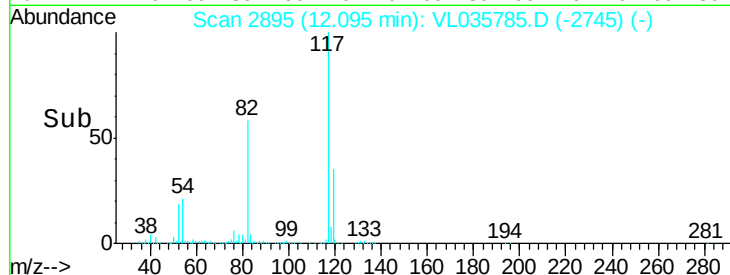
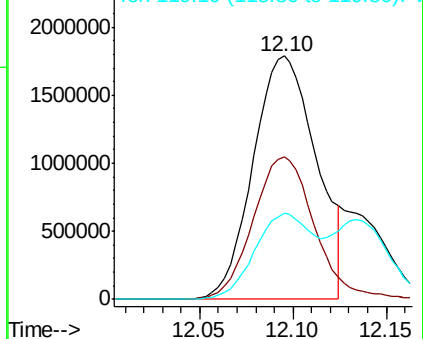
119 34.4 28.0 42.0

Manual Integrations
APPROVED

MMDadoda
10/19/2020 11:09:54 AM



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: 10.707 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

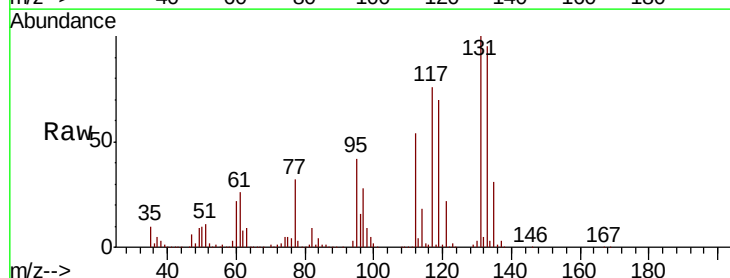
Tgt Ion:131 Resp: 1892932

Ion Ratio Lower Upper

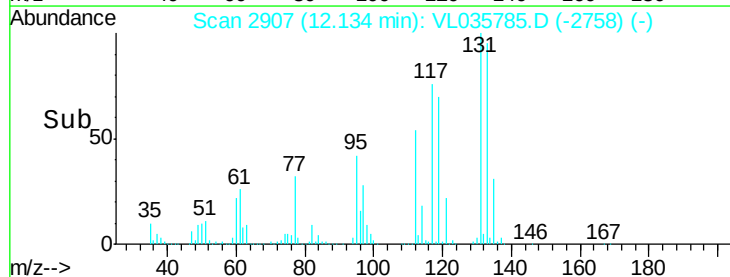
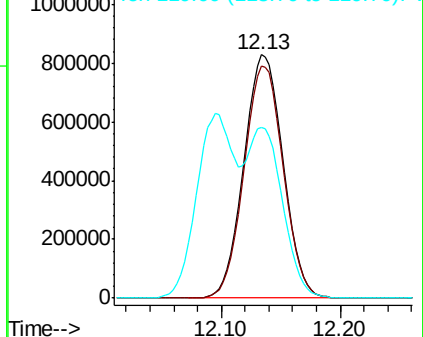
131 100

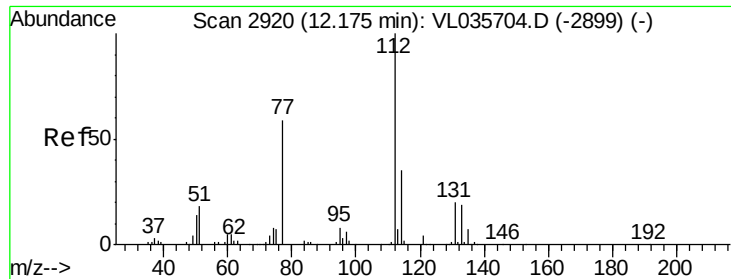
133 95.4 76.2 114.4

119 57.7 52.4 78.6



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





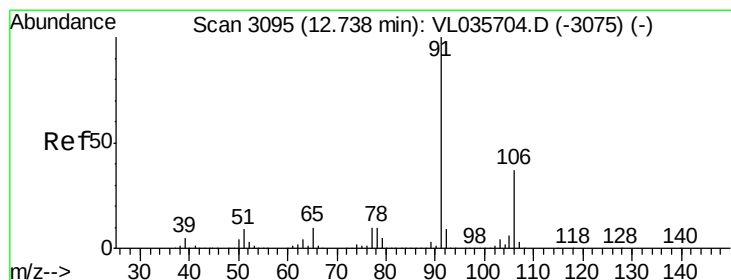
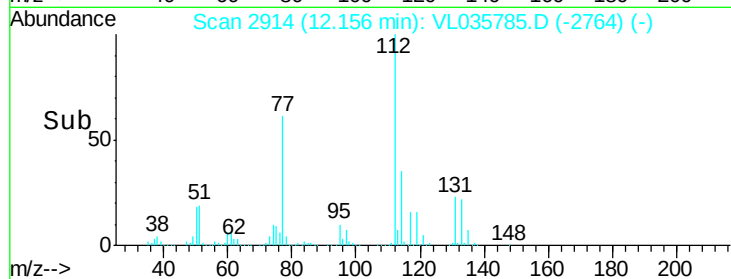
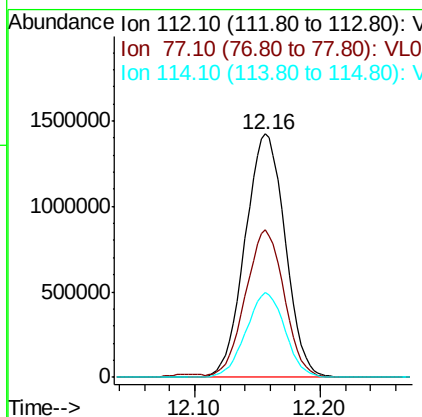
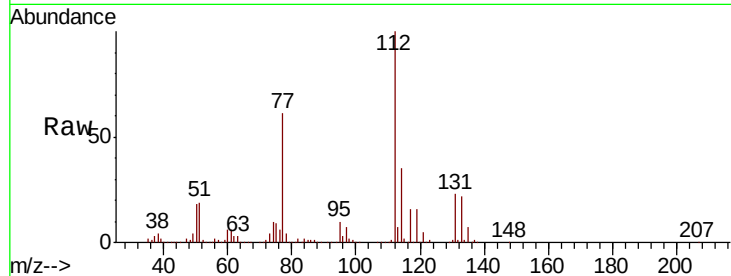
#57
Chlorobenzene
Concen: 9.939 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	60.6	48.2	72.2
114	34.7	31.9	39.1

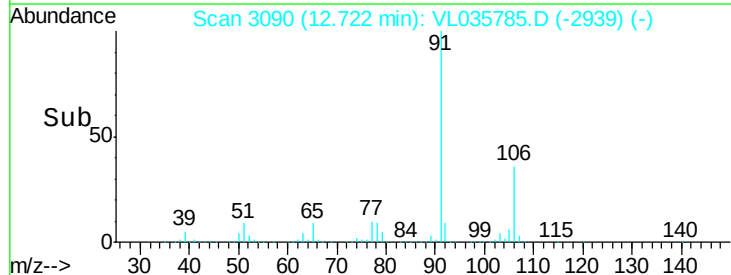
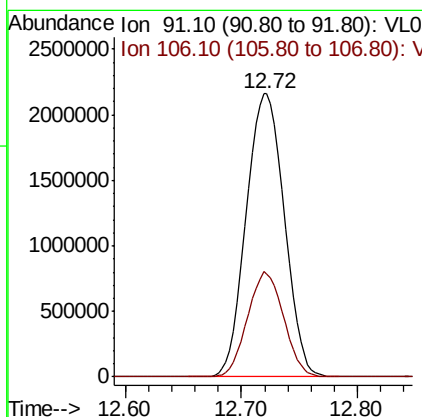
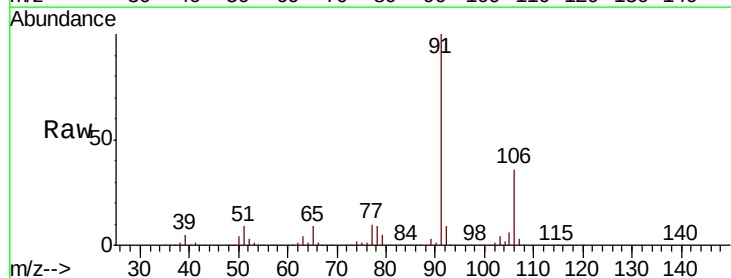
Manual Integrations
APPROVED

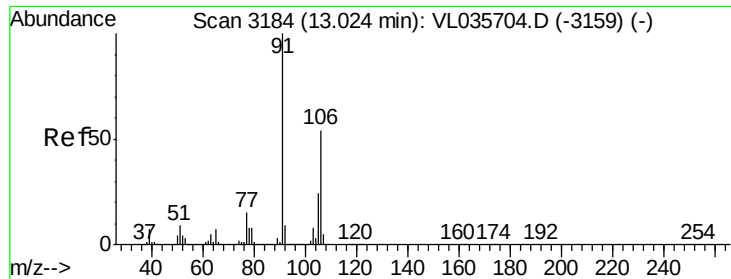
MMDadoda
10/19/2020 11:09:54 AM



#58
Ethyl Benzene
Concen: 11.686 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion	Ratio	Lower	Upper
91	100		
106	36.3	29.7	44.5





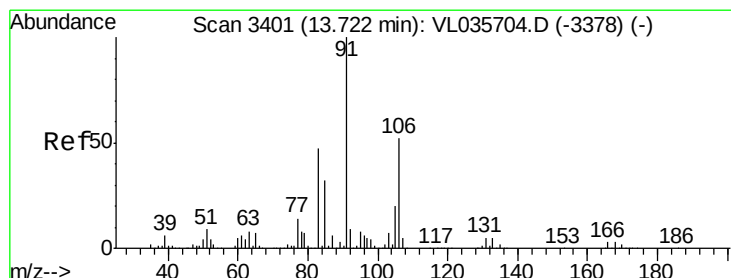
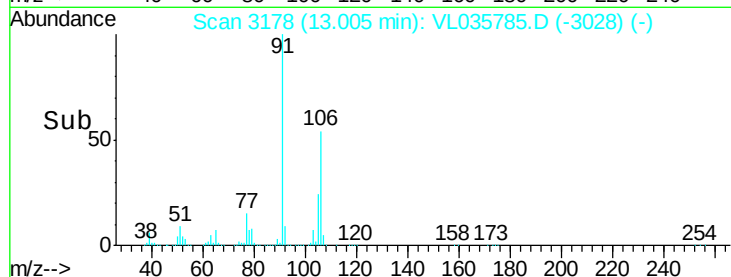
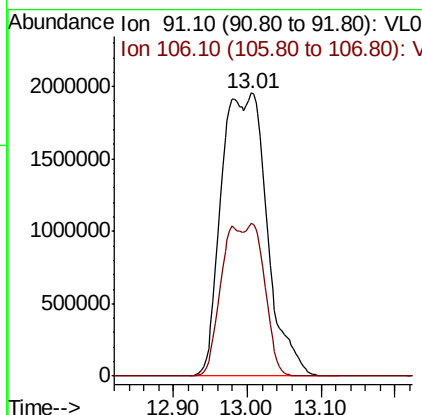
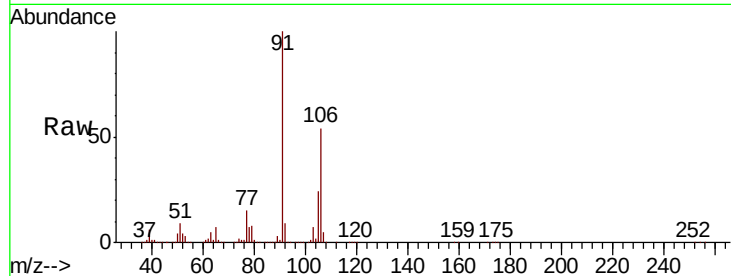
#59
m/p-Xylene
Concen: 22.748 ppbv m
RT: 13.01 min Scan# 3178
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 91 Resp: 8406630
Ion Ratio Lower Upper
91 100
106 49.7 41.4 62.0

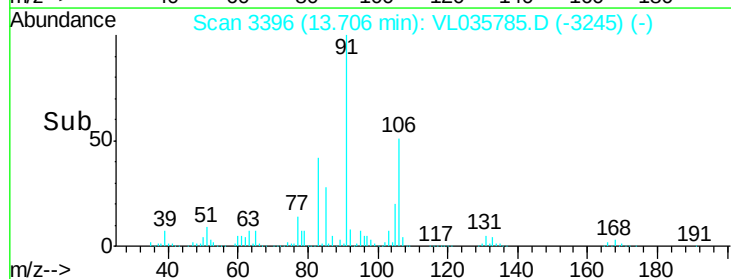
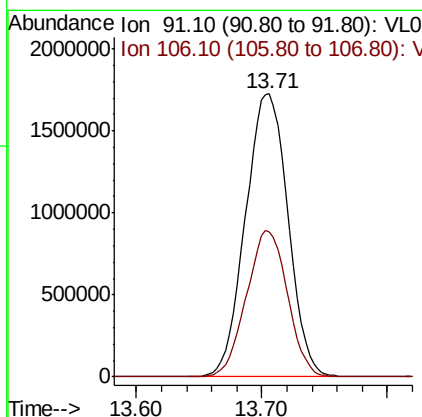
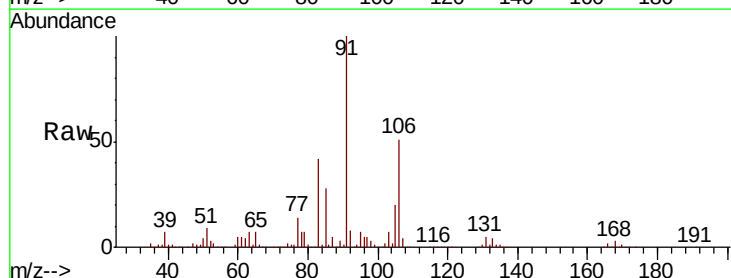
Manual Integrations
APPROVED

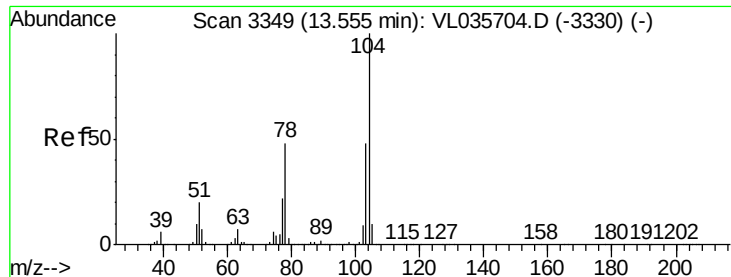
MMDadoda
10/19/2020 11:09:54 AM



#60
o-Xylene
Concen: 10.889 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion: 91 Resp: 4070526
Ion Ratio Lower Upper
91 100
106 50.0 25.0 75.0





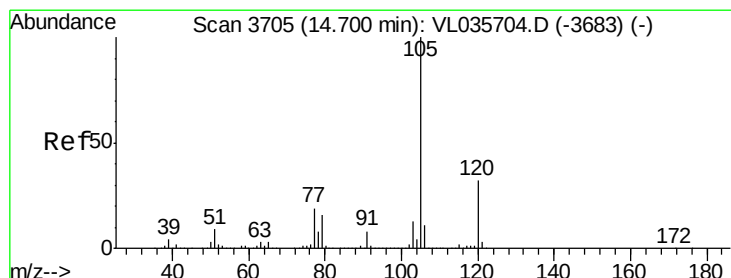
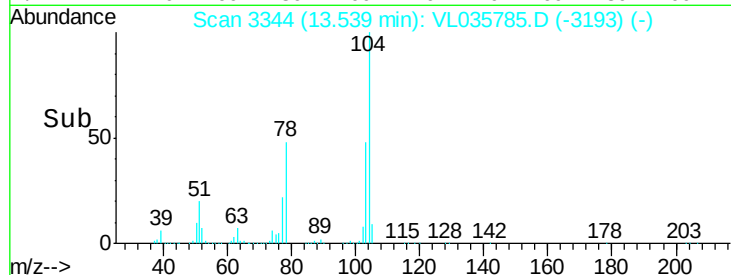
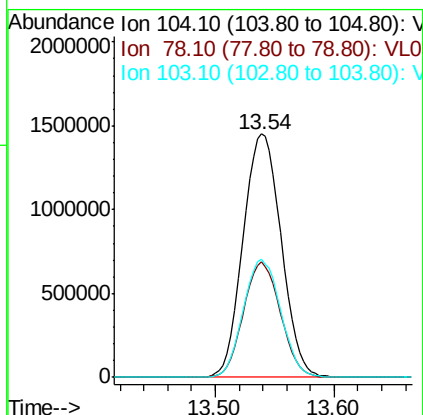
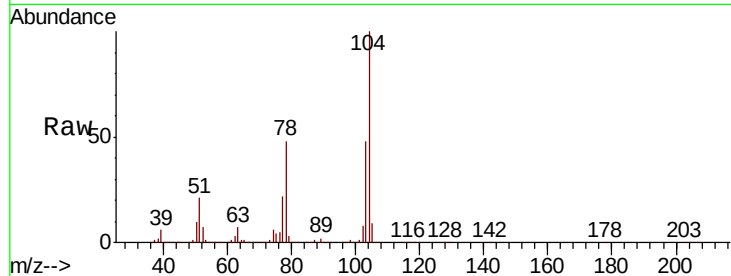
#61
Stvrene
Concen: 12.476 ppbv
RT: 13.54 min Scan# 3344
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	46.1	37.2	55.8
103	47.6	38.2	57.2

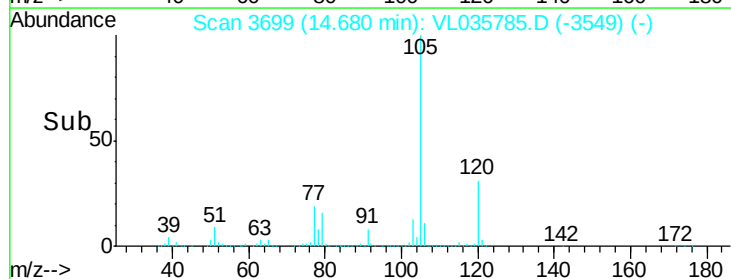
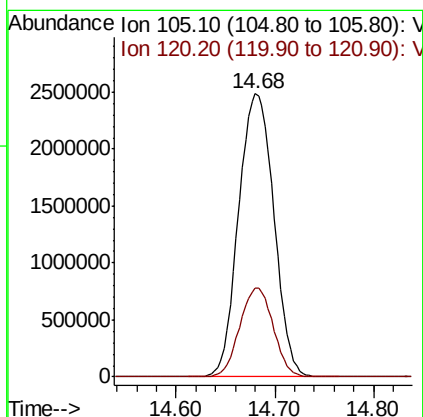
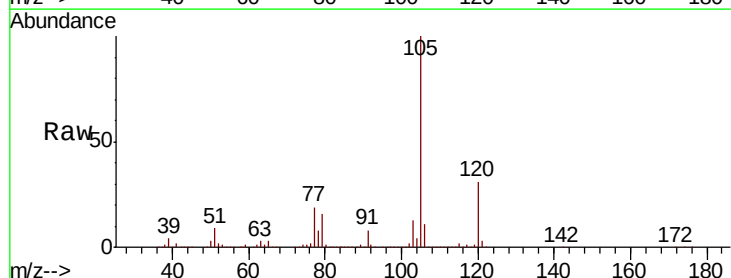
Manual Integrations
APPROVED

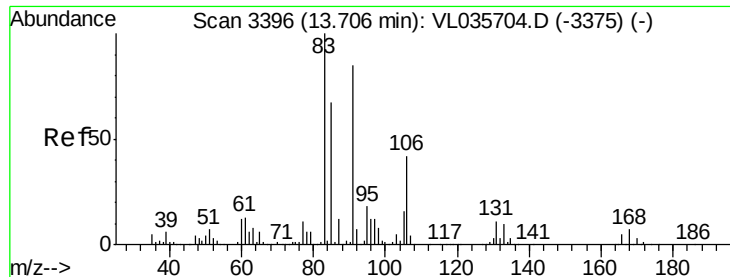
MMDadoda
10/19/2020 11:09:54 AM



#62
Isopropylbenzene
Concen: 10.616 ppbv
RT: 14.68 min Scan# 3699
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.8	24.1	36.1





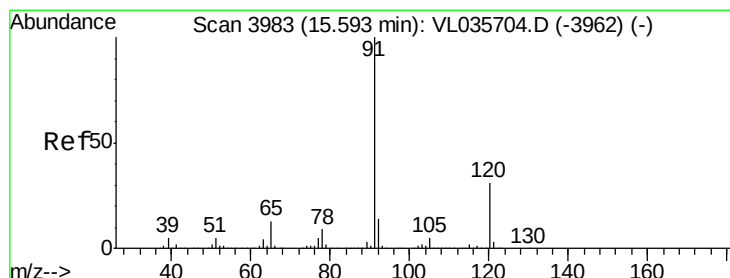
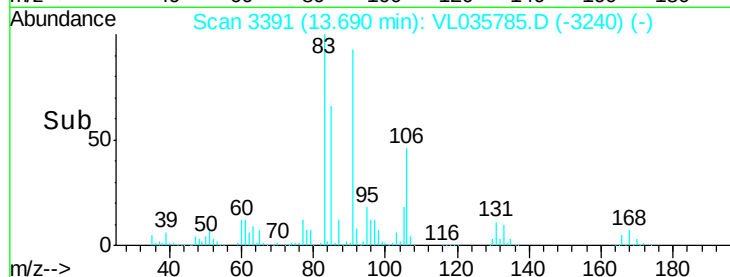
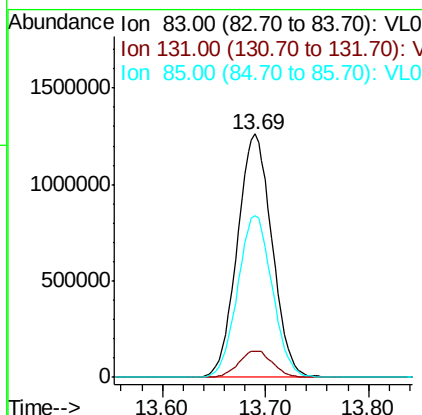
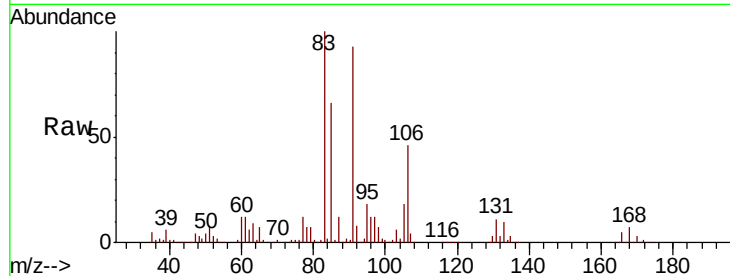
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.642 ppbv
 RT: 13.69 min Scan# 3391
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion: 83 Resp: 2955879
 Ion Ratio Lower Upper
 83 100
 131 10.7 5.3 16.1
 85 66.5 33.4 100.2

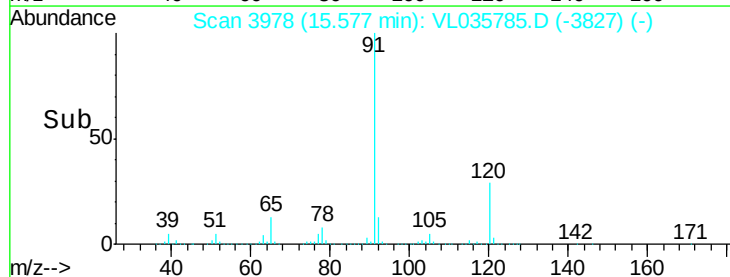
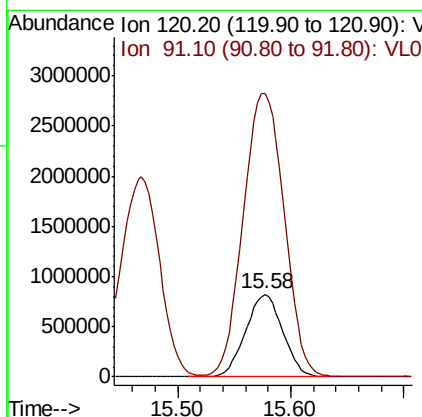
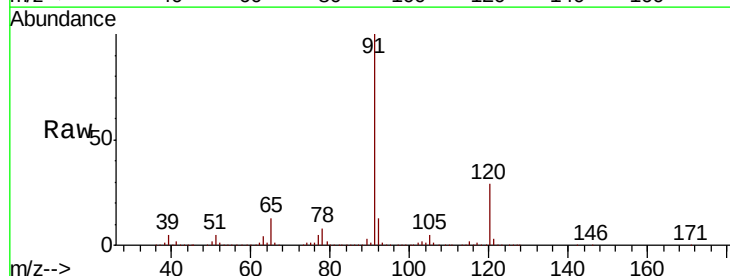
Manual Integrations
 APPROVED

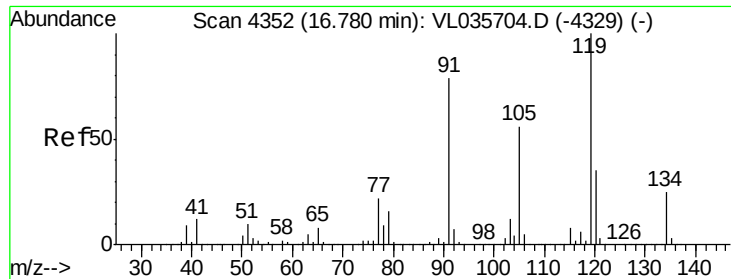
MMDadoda
 10/19/2020 11:09:54 AM



#64
 n-propylbenzene
 Concen: 11.050 ppbv
 RT: 15.58 min Scan# 3978
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Tgt Ion: 120 Resp: 1875281
 Ion Ratio Lower Upper
 120 100
 91 380.8 300.4 450.6





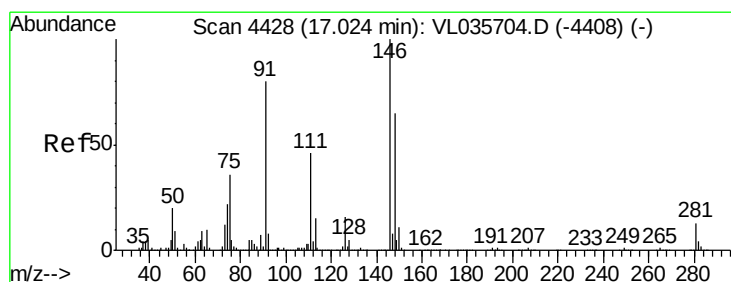
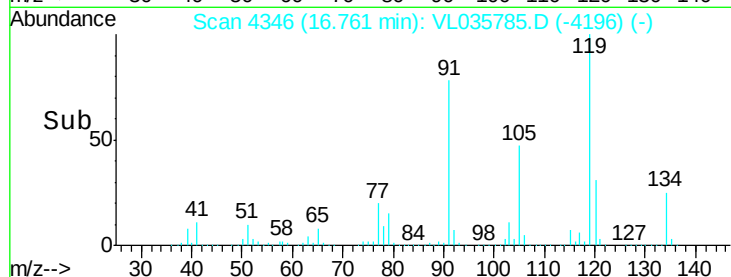
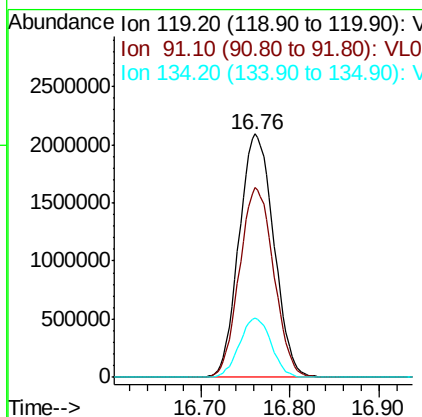
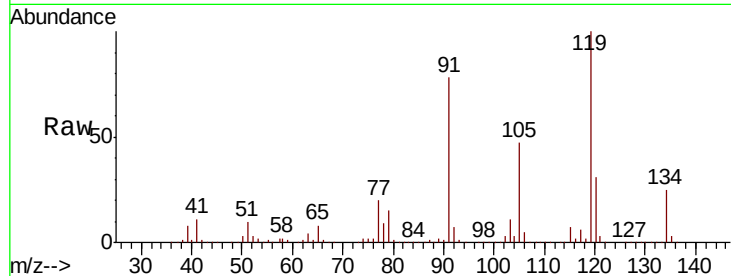
#65
 tert-Butylbenzene
 Concen: 10.739 ppbv
 RT: 16.76 min Scan# 4346
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion: 119 Resp: 5661606
 Ion Ratio Lower Upper
 119 100
 91 77.2 62.4 93.6
 134 22.5 18.2 27.2

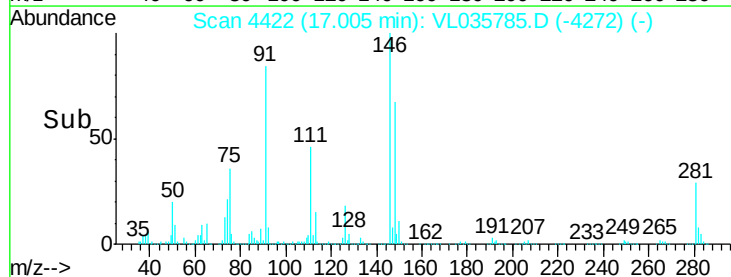
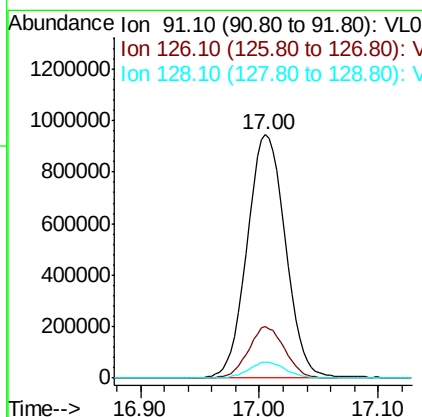
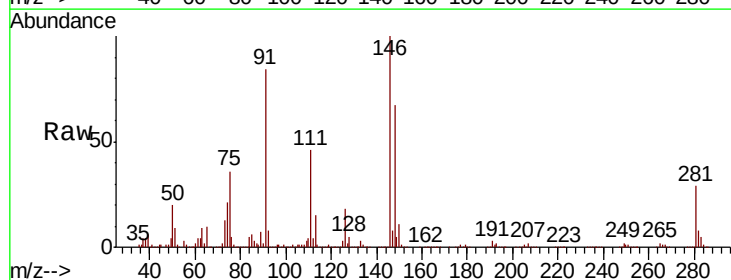
Manual Integrations
 APPROVED

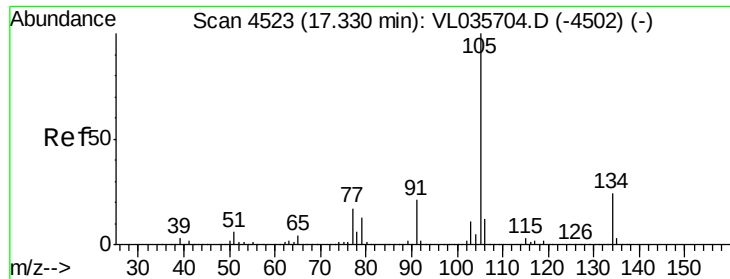
MMDadoda
 10/19/2020 11:09:54 AM



#66
 Benzyl Chloride
 Concen: 13.198 ppbv
 RT: 17.00 min Scan# 4422
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Tgt Ion: 91 Resp: 2108053
 Ion Ratio Lower Upper
 91 100
 126 20.1 15.3 22.9
 128 6.3 5.0 7.4





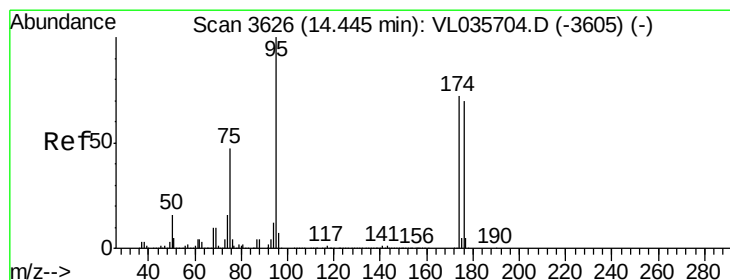
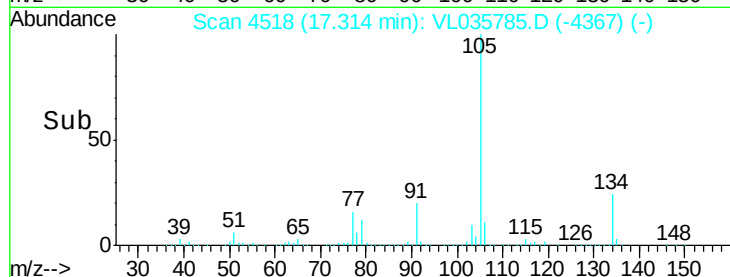
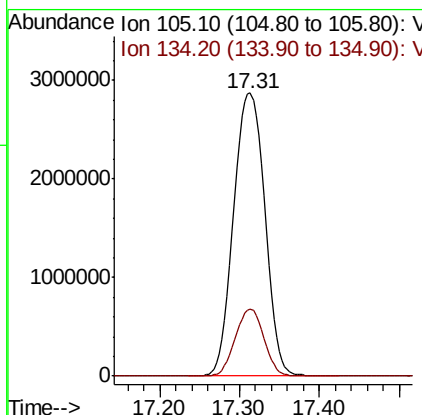
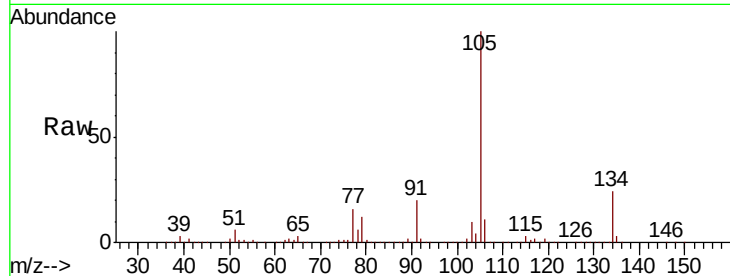
#67
 sec-Butylbenzene
 Concen: 10.428 ppbv
 RT: 17.31 min Scan# 4518
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion: 105 Resp: 7591562
 Ion Ratio Lower Upper
 105 100
 134 21.7 17.6 26.4

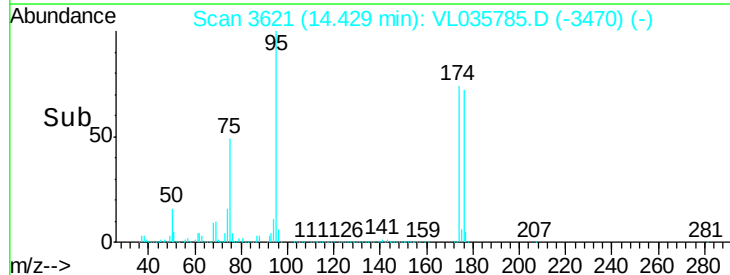
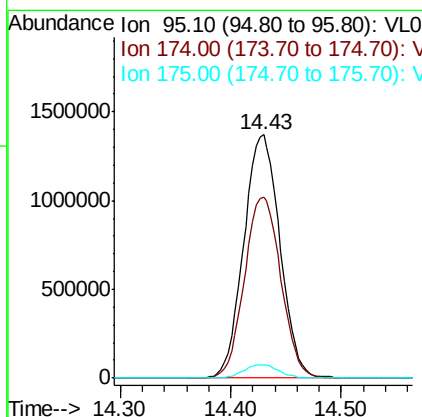
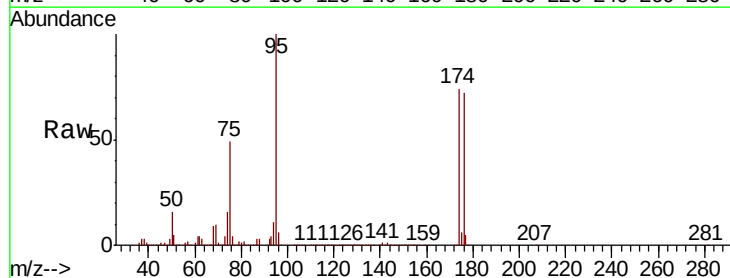
Manual Integrations
 APPROVED

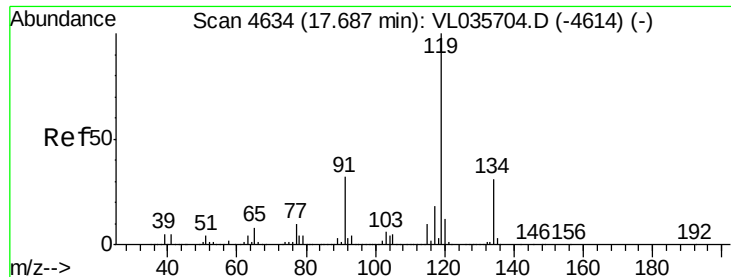
MMDadoda
 10/19/2020 11:09:54 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.841 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Tgt Ion: 95 Resp: 3109247
 Ion Ratio Lower Upper
 95 100
 174 75.3 59.6 89.4
 175 5.4 4.2 6.4





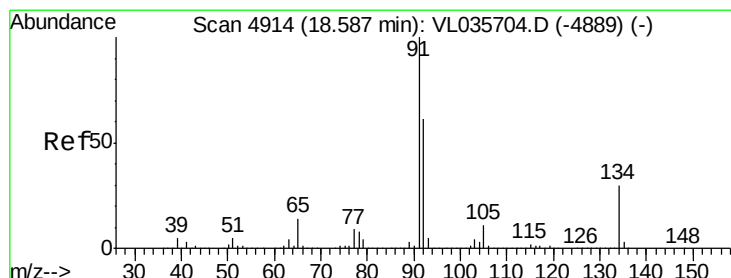
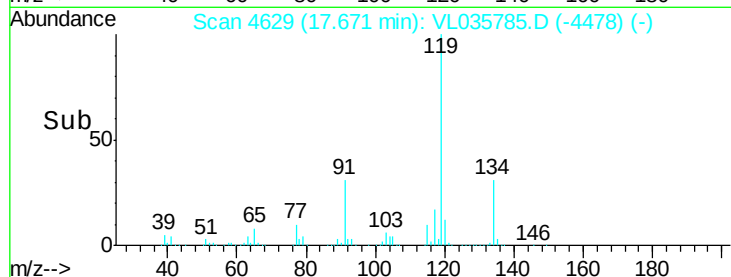
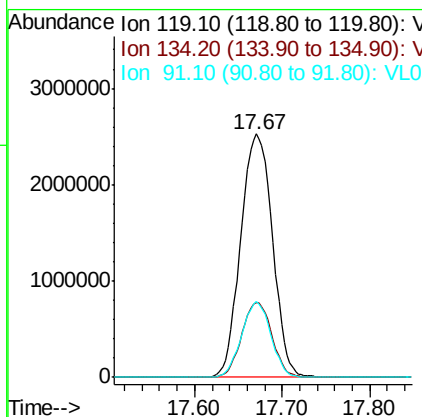
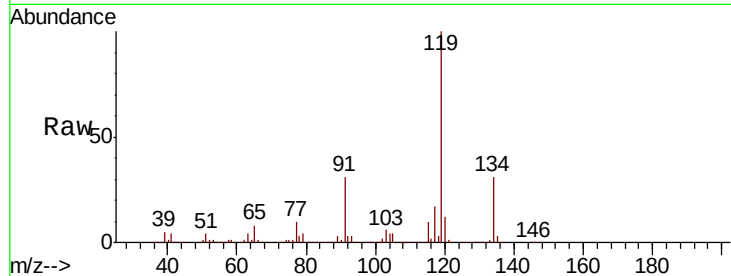
#69
 p-Isopropyltoluene
 Concen: 10.758 ppbv
 RT: 17.67 min Scan# 4629
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	29.3	23.9	35.9
91	28.8	23.8	35.6

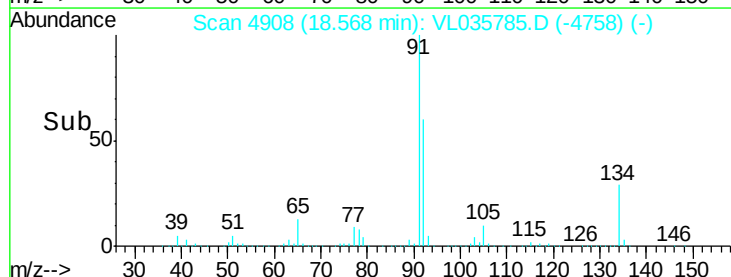
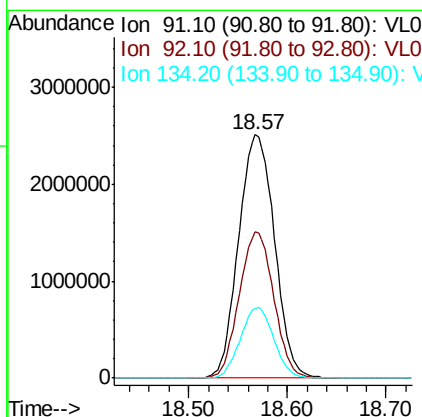
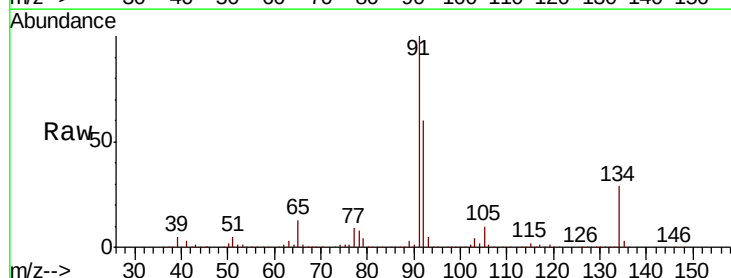
Manual Integrations
 APPROVED

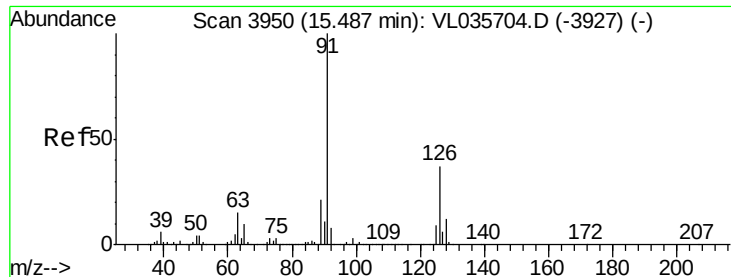
MMDadoda
 10/19/2020 11:09:54 AM



#70
 n-Butylbenzene
 Concen: 10.336 ppbv
 RT: 18.57 min Scan# 4908
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.7	47.0	70.4
134	27.2	21.9	32.9





#71

2-Chlorotoluene

Concen: 11.120 ppbv

RT: 15.47 min Scan# 3944

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 91 Resp: 4703214

Ion Ratio Lower Upper

91 100

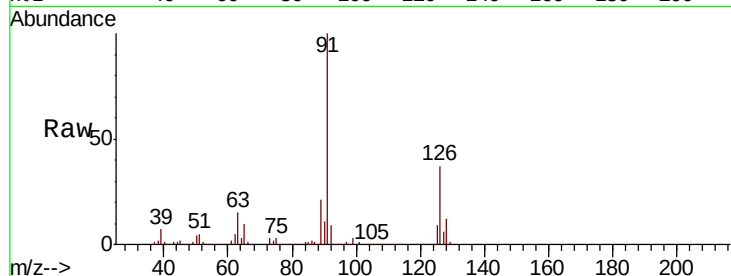
126 35.7 14.4 57.4

Manual Integrations

APPROVED

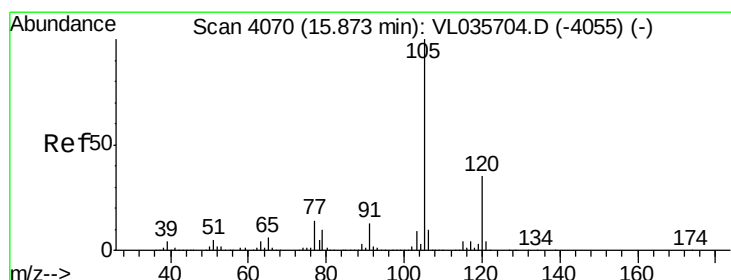
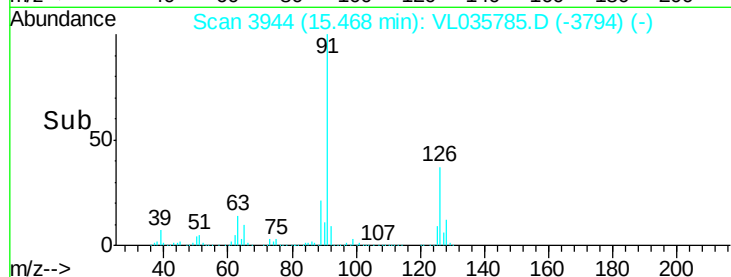
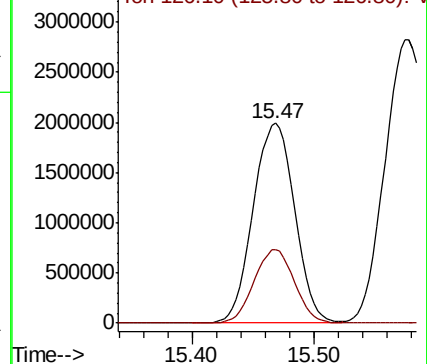
MMDadoda

10/19/2020 11:09:54 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.254 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Tgt Ion:105 Resp: 4983611

Ion Ratio Lower Upper

105 100

120 33.0 26.5 39.7

91 12.6 10.2 15.2

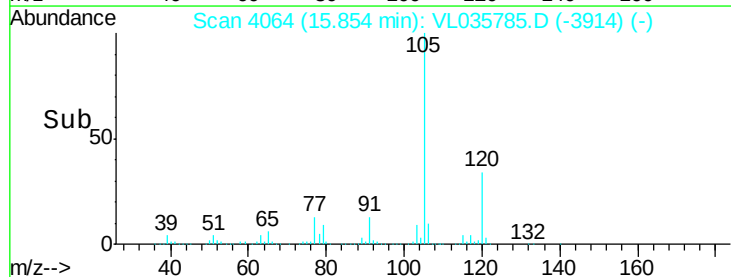
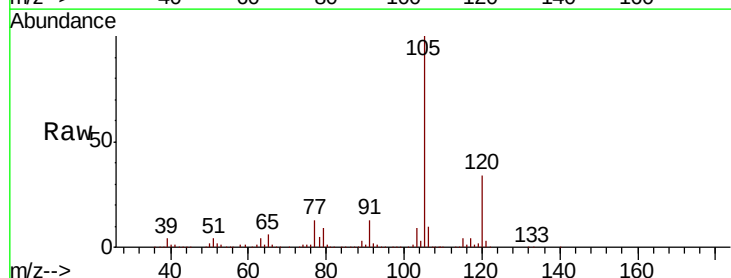
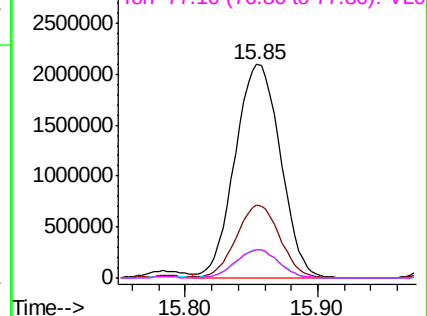
77 12.7 10.3 15.5

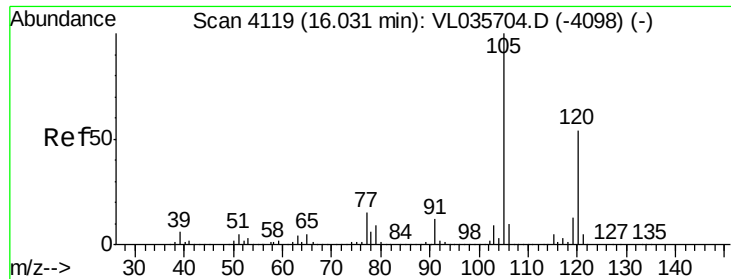
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 11.080 ppbv

RT: 16.01 min Scan# 4113

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:105 Resp: 4636950

Ion Ratio Lower Upper

105 100

120 52.1

43.0

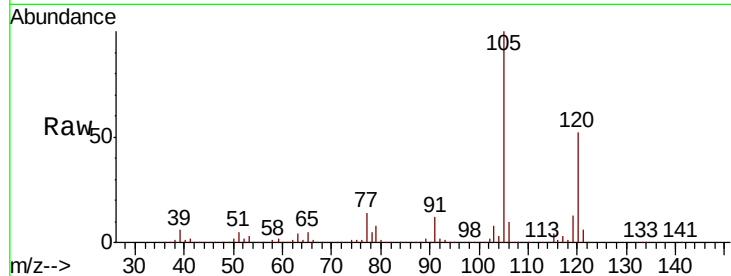
64.4

Manual Integrations

APPROVED

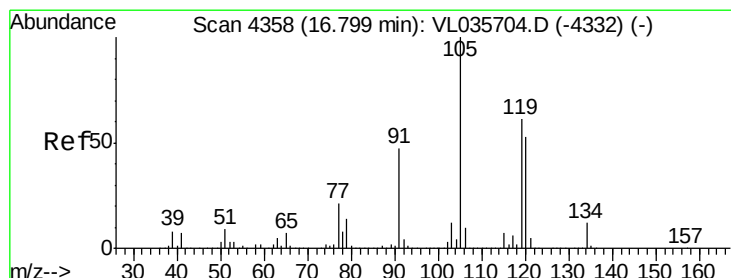
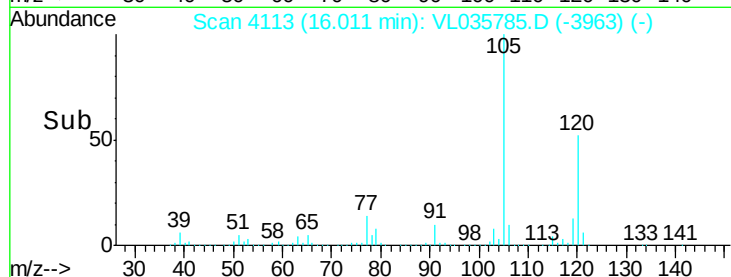
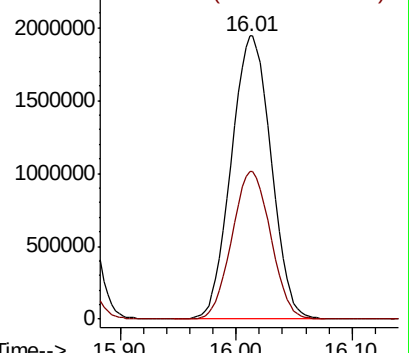
MMDadoda

10/19/2020 11:09:54 AM



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: 10.161 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Tgt Ion:105 Resp: 4793513

Ion Ratio Lower Upper

105 100

120 53.1

42.5

63.7

91 51.9

37.7

56.5

77 21.1

16.7

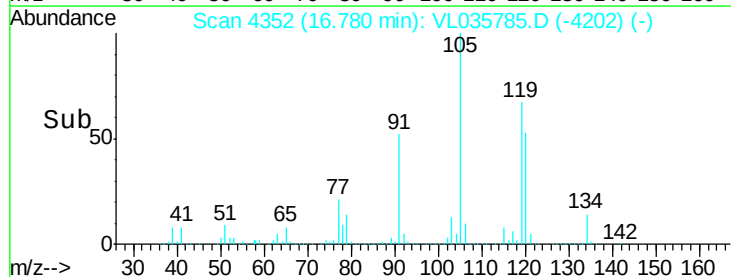
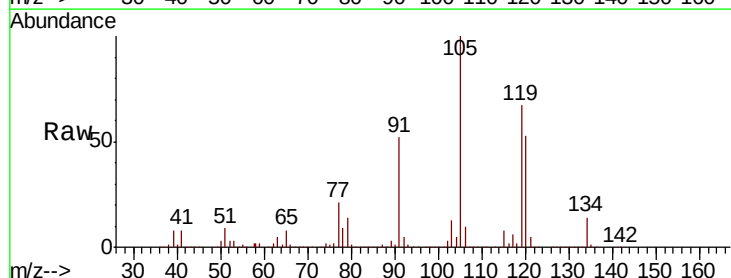
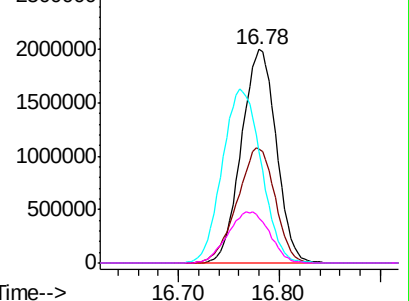
25.1

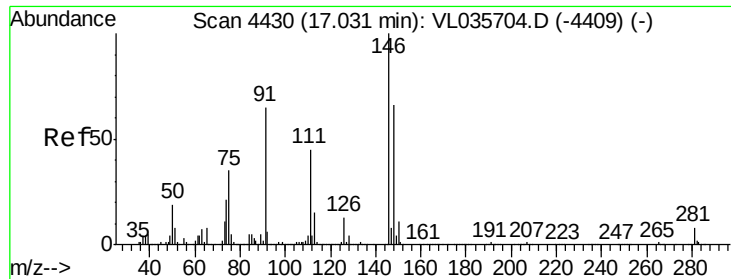
Abundance Ion 105.10 (104.80 to 105.80): V

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





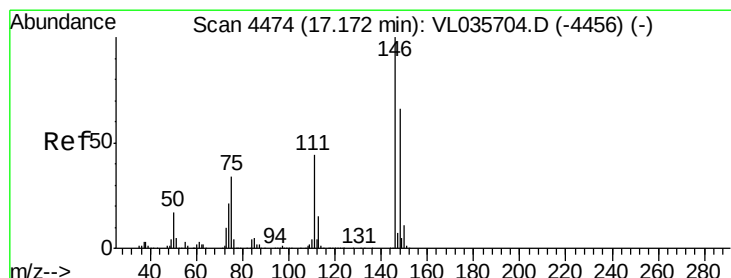
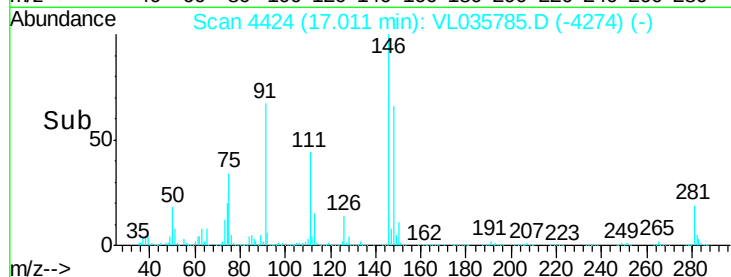
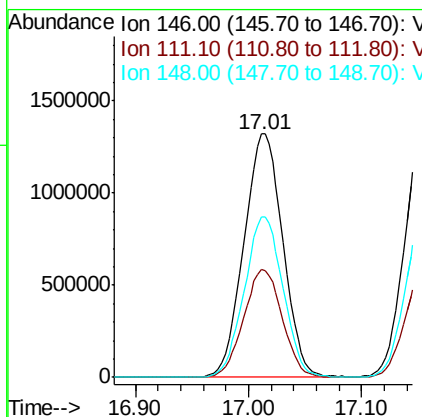
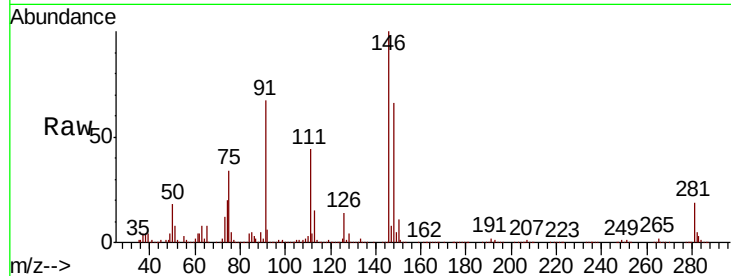
#75
 1,3-Dichlorobenzene
 Concen: 9.812 ppbv
 RT: 17.01 min Scan# 4424
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.4	67.0
148	65.4	33.0	99.0

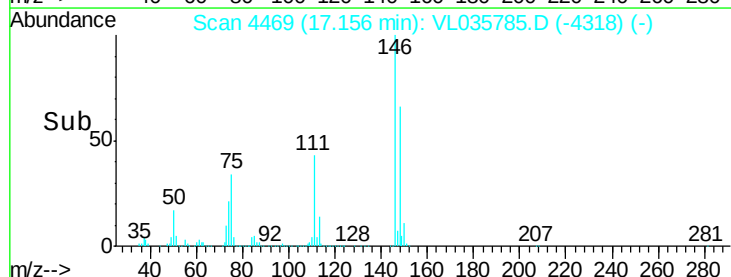
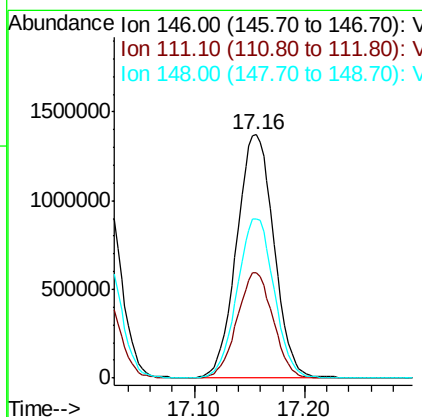
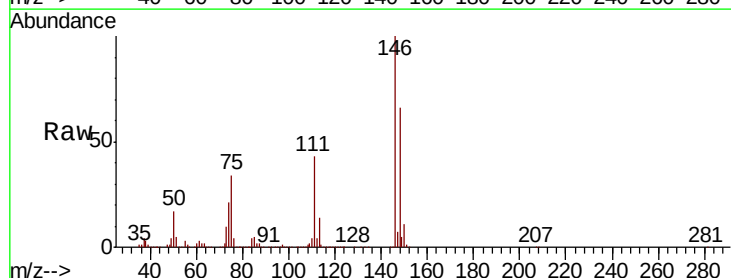
Manual Integrations
 APPROVED

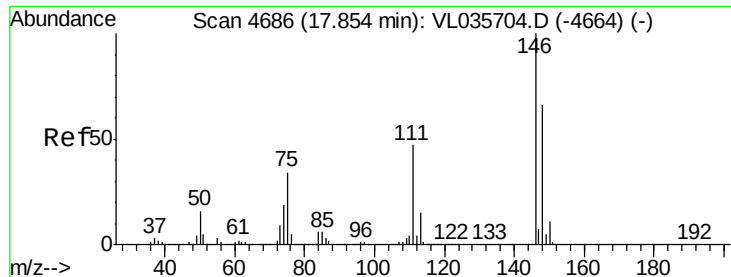
MMDadoda
 10/19/2020 11:09:54 AM



#76
 1,4-Dichlorobenzene
 Concen: 10.359 ppbv
 RT: 17.16 min Scan# 4469
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.4	64.3
148	65.4	32.6	98.0





#77

1,2-Dichlorobenzene

Concen: 10.215 ppbv

RT: 17.83 min Scan# 4680

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:146 Resp: 3107437

Ion Ratio Lower Upper

146 100

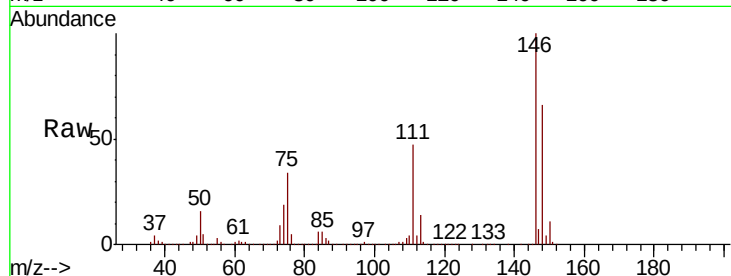
111 45.1 22.9 68.5

148 65.2 32.6 98.0

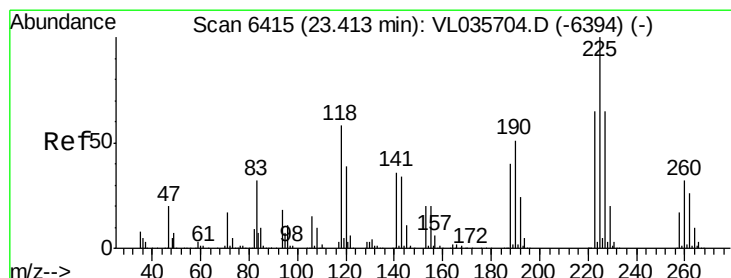
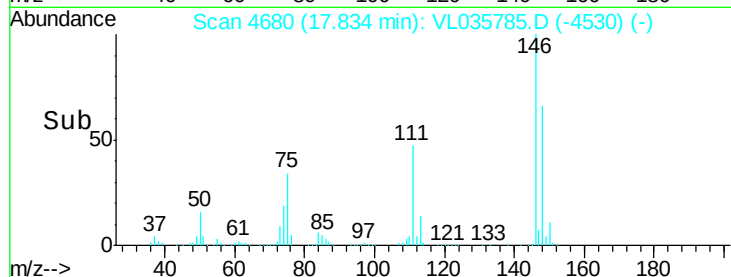
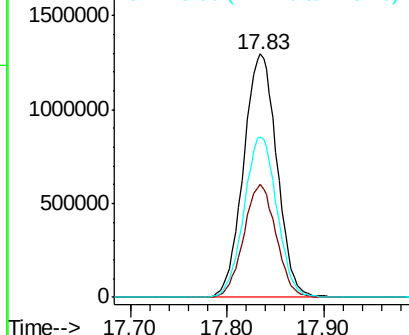
Manual Integrations
APPROVED

MMDadoda

10/19/2020 11:09:54 AM



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: 10.283 ppbv

RT: 23.40 min Scan# 6410

Delta R.T. -0.02 min

Lab File: VL035785.D

Acq: 16 Oct 2020 13:56

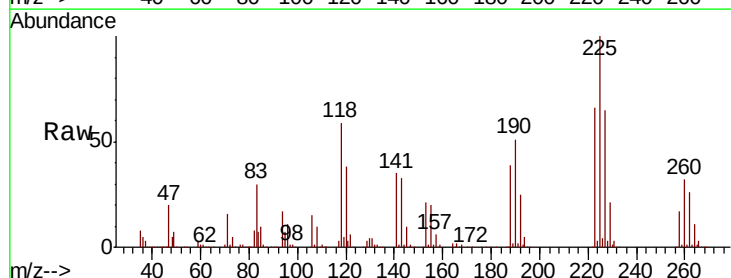
Tgt Ion:225 Resp: 1725798

Ion Ratio Lower Upper

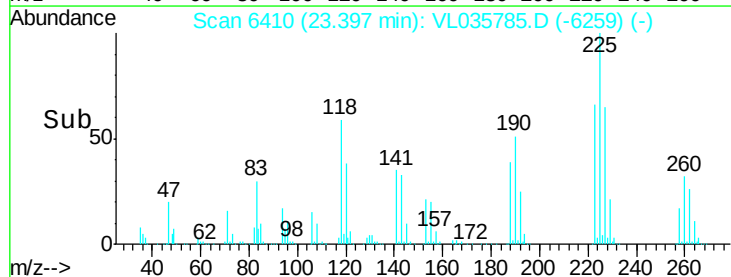
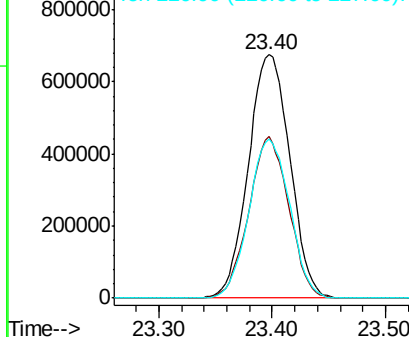
225 100

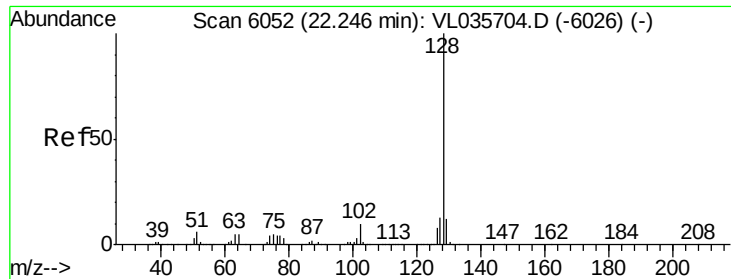
223 63.8 51.3 76.9

227 64.1 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





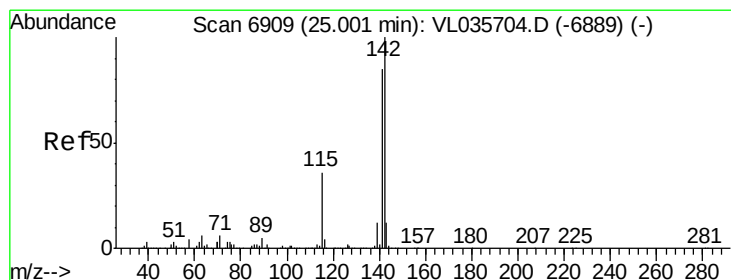
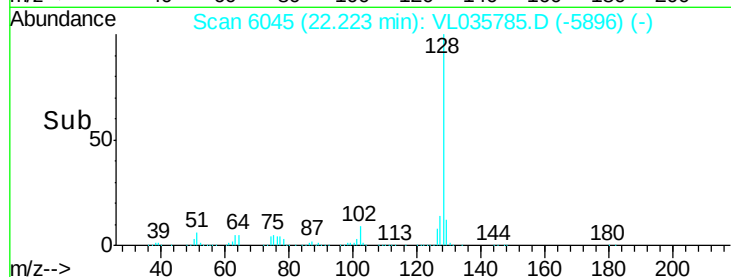
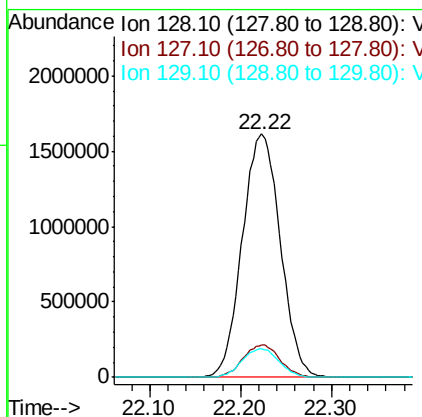
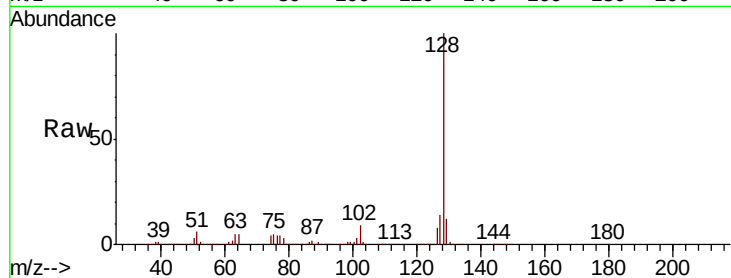
#79
Naphthalene
Concen: 10.412 ppbv
RT: 22.22 min Scan# 6045
Delta R.T. -0.02 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion:128 Resp: 4685106
Ion Ratio Lower Upper
128 100
127 13.5 10.6 15.8
129 11.9 9.4 14.0

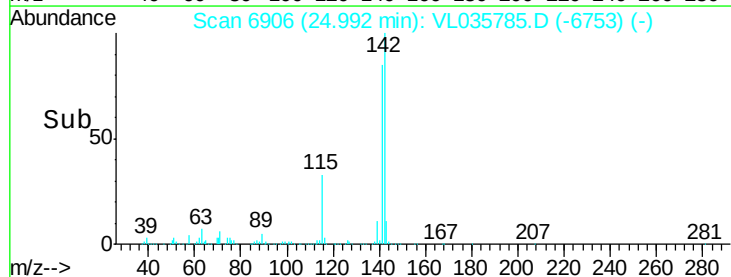
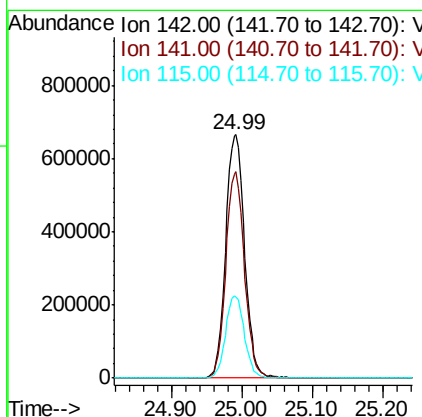
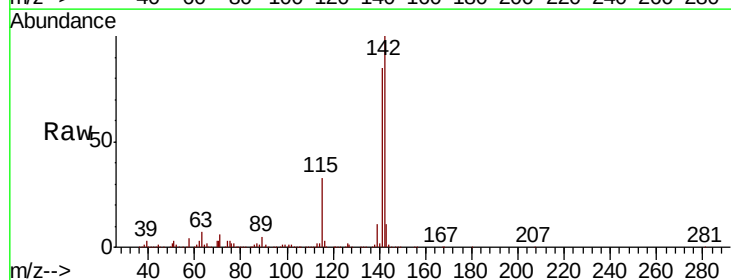
Manual Integrations
APPROVED

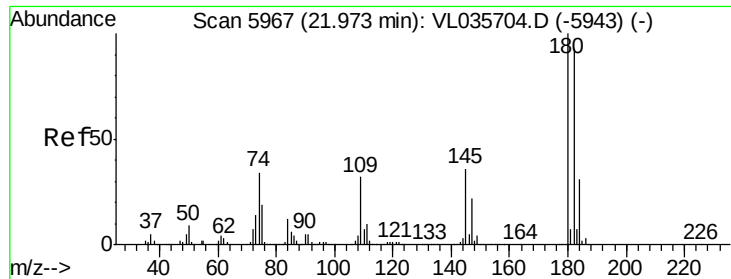
MMDadoda
10/19/2020 11:09:54 AM



#80
Naphthalene, 2-methyl-
Concen: 11.808 ppbv
RT: 24.99 min Scan# 6906
Delta R.T. -0.01 min
Lab File: VL035785.D
Acq: 16 Oct 2020 13:56

Tgt Ion:142 Resp: 1253182
Ion Ratio Lower Upper
142 100
141 83.7 68.2 102.4
115 33.7 27.8 41.6





#81
 1,2,4-Trichlorobenzene
 Concen: 10.486 ppbv
 RT: 21.95 min Scan# 5961
 Delta R.T. -0.02 min
 Lab File: VL035785.D
 Acq: 16 Oct 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.2
184	30.7	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 10/19/2020 11:09:54 AM

