

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY092619\
 Data File : VY000142.D
 Acq On : 26 Sep 2019 10:27
 Operator : SY/MD
 Sample : VSTDIC005
 Misc : 5.00g/5.00ml/MSVOA Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/2/2019 9:12:43 AM

Quant Time: Sep 26 14:06:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y092619S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 26 14:00:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	202141	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	339939	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	294275	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	139382	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.14	65	8552	4.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.66%	
35) Dibromofluoromethane	7.72	113	7776	4.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.74%	
50) Toluene-d8	10.18	98	37136	4.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.86%	
62) 4-Bromofluorobenzene	12.47	95	13660	4.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.94%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.90	85	9247	5.755	ug/l 98
3) Chloromethane	2.11	50	15022	6.407	ug/l 97
4) Vinyl Chloride	2.24	62	13118	5.207	ug/l 99
5) Bromomethane	2.63	94	9725	5.725	ug/l 81
6) Chloroethane	2.79	64	8498	5.434	ug/l # 76
7) Trichlorofluoromethane	3.12	101	16036	5.281	ug/l 93
8) Diethyl Ether	3.53	74	6418	5.301	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.89	101	10349	5.221	ug/l 95
10) Methyl Iodide	4.09	142	12970	4.244	ug/l 97
11) Tert butyl alcohol	4.97	59	5354	30.272	ug/l # 89
12) 1,1-Dichloroethene	3.86	96	10349	4.979	ug/l # 86
13) Acrolein	3.74	56	5977	27.213	ug/l 94
14) Allyl chloride	4.47	41	13187	5.070	ug/l 93
15) Acrylonitrile	5.17	53	14749	26.789	ug/l 95
16) Acetone	3.96	43	13345	30.766	ug/l 94
17) Carbon Disulfide	4.19	76	33672	5.222	ug/l 99
18) Methyl Acetate	4.48	43	7681	5.983	ug/l 94
19) Methyl tert-butyl Ether	5.21	73	24810	5.042	ug/l 99
20) Methylene Chloride	4.71	84	15954	6.368	ug/l 89
21) trans-1,2-Dichloroethene	5.21	96	12167	5.254	ug/l 84
22) Diisopropyl ether	6.13	45	27575	5.045	ug/l 92
23) Vinyl Acetate	6.07	43	84003	24.521	ug/l 99
24) 1,1-Dichloroethane	6.02	63	17070	5.159	ug/l # 95
25) 2-Butanone	6.99	43	18687	27.496	ug/l # 82
26) 2,2-Dichloropropane	6.98	77	17084	5.678	ug/l 92
27) cis-1,2-Dichloroethene	6.99	96	13104	5.091	ug/l 91
28) Bromochloromethane	7.33	49	6480	5.140	ug/l 97
29) Tetrahydrofuran	7.36	42	10888	25.988	ug/l # 76
30) Chloroform	7.51	83	18838	5.439	ug/l 88
31) Cyclohexane	7.79	56	20323	5.941	ug/l # 85
32) 1,1,1-Trichloroethane	7.70	97	15483	5.098	ug/l 97
36) 1,1-Dichloropropene	7.93	75	15729	5.568	ug/l 95
37) Ethyl Acetate	7.08	43	8549	5.729	ug/l 99
38) Carbon Tetrachloride	7.89	117	13808	5.007	ug/l # 85

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY092619\
 Data File : VY000142.D
 Acq On : 26 Sep 2019 10:27
 Operator : SY/MD
 Sample : VSTDIC005
 Misc : 5.00g/5.00ml/MSVOA Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/2/2019 9:12:43 AM

Quant Time: Sep 26 14:06:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y092619S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 26 14:00:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.18	83	21001	5.241	ug/l	95
40) Benzene	8.16	78	46132	5.170	ug/l	97
41) Methacrylonitrile	7.31	41	3530	4.363	ug/l #	100
42) 1,2-Dichloroethane	8.24	62	11248	5.180	ug/l	96
43) Isopropyl Acetate	8.28	43	14145	5.131	ug/l	98
44) Trichloroethene	8.94	130	14378	5.042	ug/l	83
45) 1,2-Dichloropropane	9.22	63	9899	5.029	ug/l	89
46) Dibromomethane	9.31	93	6380	5.311	ug/l	94
47) Bromodichloromethane	9.50	83	13386	4.943	ug/l	99
48) Methyl methacrylate	9.30	41	6612	5.356	ug/l	93
49) 1,4-Dioxane	9.30	88	2039	109.855	ug/l #	89
51) 4-Methyl-2-Pentanone	10.07	43	36178	25.285	ug/l	96
52) Toluene	10.24	92	30570	5.290	ug/l	93
53) t-1,3-Dichloropropene	10.46	75	13721	4.824	ug/l	91
54) cis-1,3-Dichloropropene	9.92	75	16760	4.972	ug/l	94
55) 1,1,2-Trichloroethane	10.64	97	9787	5.479	ug/l	94
56) Ethyl methacrylate	10.51	69	11703	5.036	ug/l	94
57) 1,3-Dichloropropane	10.78	76	15011	5.229	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.78	63	28987	26.559	ug/l	99
59) 2-Hexanone	10.83	43	24851	24.438	ug/l	97
60) Dibromochloromethane	10.99	129	10157	5.030	ug/l	95
61) 1,2-Dibromoethane	11.08	107	8522	4.999	ug/l	100
64) Tetrachloroethene	10.72	164	14659	5.029	ug/l	96
65) Chlorobenzene	11.52	112	32423	5.294	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.59	131	10482	5.065	ug/l	98
67) Ethyl Benzene	11.59	91	54915	5.246	ug/l	96
68) m/p-Xylenes	11.70	106	44140	10.430	ug/l	97
69) o-Xylene	12.02	106	21399	5.302	ug/l	96
70) Styrene	12.04	104	34022	4.981	ug/l	98
71) Bromoform	12.20	173	5740	4.720	ug/l #	100
73) Isopropylbenzene	12.33	105	52532	5.224	ug/l	100
74) N-amyl acetate	12.14	43	12081	4.963	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.58	83	9633	6.154	ug/l	96
76) 1,2,3-Trichloropropane	12.63	75	7537m	5.490	ug/l	
77) Bromobenzene	12.60	156	13188	5.308	ug/l	98
78) n-propylbenzene	12.67	91	63646	5.309	ug/l	95
79) 2-Chlorotoluene	12.75	91	34189	5.242	ug/l	100
80) 1,3,5-Trimethylbenzene	12.81	105	43809	5.237	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	3750	5.327	ug/l	98
82) 4-Chlorotoluene	12.85	91	35392	5.208	ug/l	99
83) tert-Butylbenzene	13.07	119	35477	4.925	ug/l	97
84) 1,2,4-Trimethylbenzene	13.12	105	45598	5.394	ug/l	98
85) sec-Butylbenzene	13.25	105	54915	5.310	ug/l	99
86) p-Isopropyltoluene	13.36	119	48473	5.263	ug/l	97
87) 1,3-Dichlorobenzene	13.36	146	26167	5.497	ug/l	99
88) 1,4-Dichlorobenzene	13.44	146	24936	5.263	ug/l	94
89) n-Butylbenzene	13.69	91	44246	5.055	ug/l	96
90) Hexachloroethane	13.95	117	9061	5.207	ug/l	92
91) 1,2-Dichlorobenzene	13.74	146	23397	5.380	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.34	75	1792	5.802	ug/l	86

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY092619\
Data File : VY000142.D
Acq On : 26 Sep 2019 10:27
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.00ml/MSVOA Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

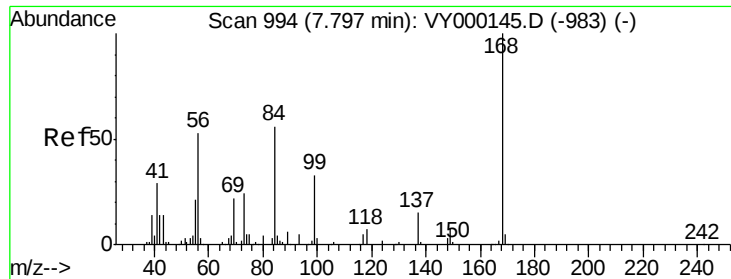
Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM

Quant Time: Sep 26 14:06:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y092619S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 26 14:00:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	15579	5.163	ug/l	96
94) Hexachlorobutadiene	15.11	225	7374	5.009	ug/l	95
95) Naphthalene	15.23	128	36311	5.374	ug/l	99
96) 1,2,3-Trichlorobenzene	15.42	180	13358	4.936	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 202141

Ion Ratio Lower Upper

168 100

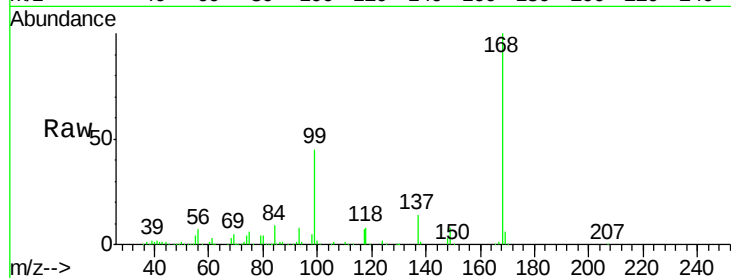
99 44.8 37.9 56.9

Manual Integrations

APPROVED

MMDadoda

10/2/2019 9:12:43 AM



Abundance Ion 167.90 (167.60 to 168.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

7.80

80000

60000

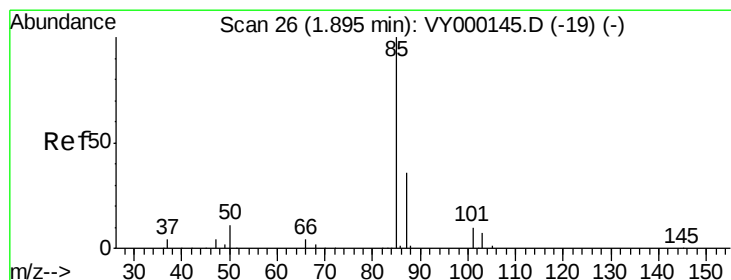
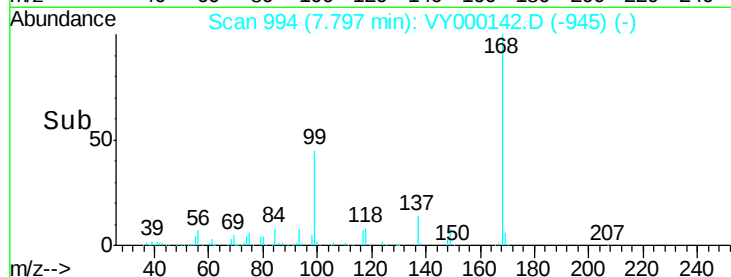
40000

20000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 5.755 ug/l

RT: 1.90 min Scan# 27

Delta R.T. 0.01 min

Lab File: VY000142.D

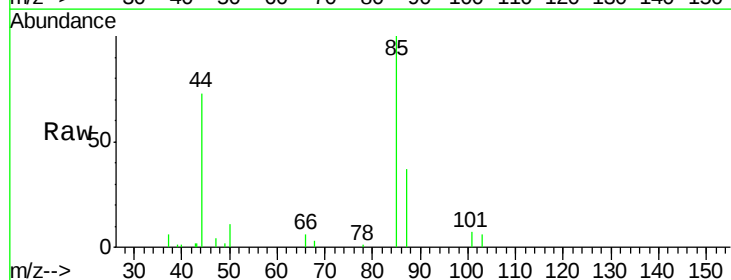
Acq: 26 Sep 2019 10:27

Tgt Ion: 85 Resp: 9247

Ion Ratio Lower Upper

85 100

87 37.3 17.9 53.8



Abundance Ion 84.90 (84.60 to 85.60): VY0

Ion 86.90 (86.60 to 87.60): VY0

1.90

6000

5000

4000

3000

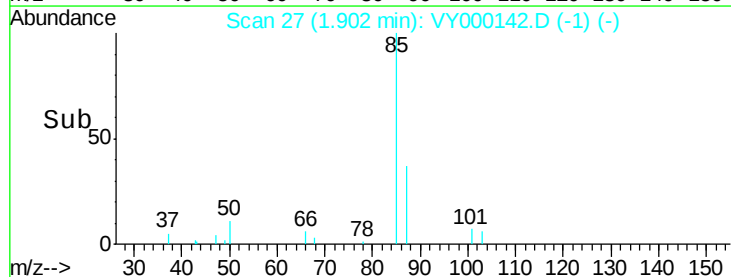
2000

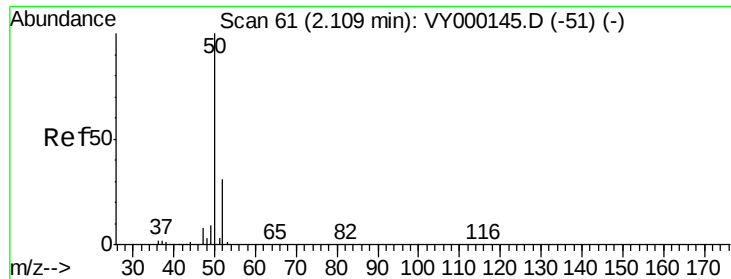
1000

0

1.85 1.90 1.95 2.00

Time-->





#3

Chloromethane

Concen: 6.407 ug/l

RT: 2.11 min Scan# 61

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 15022

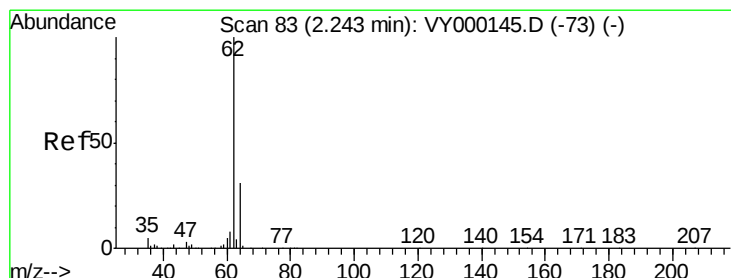
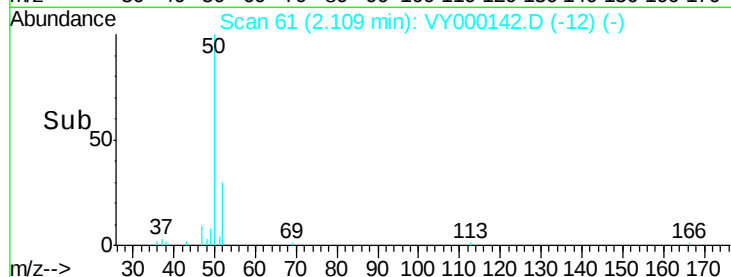
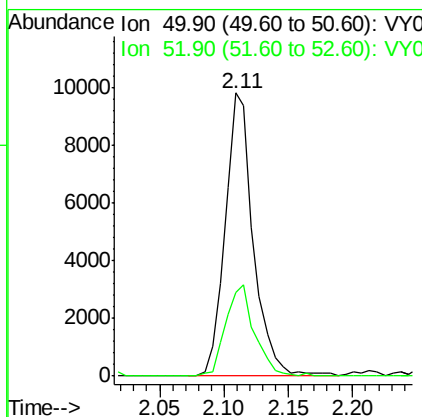
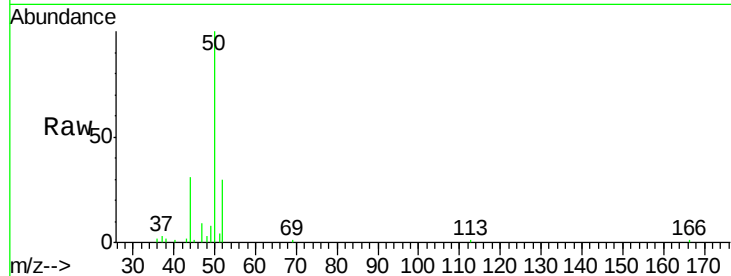
Ion Ratio Lower Upper

50 100

52 29.5 25.0 37.6

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#4

Vinyl Chloride

Concen: 5.207 ug/l

RT: 2.24 min Scan# 83

Delta R.T. 0.00 min

Lab File: VY000142.D

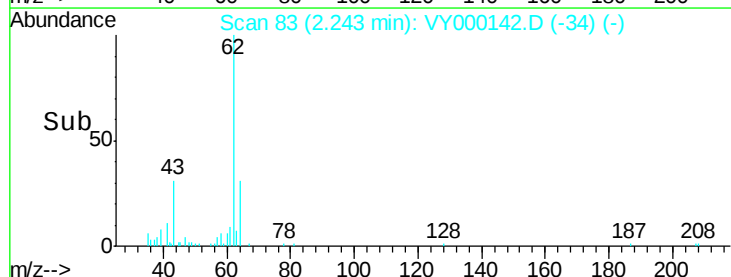
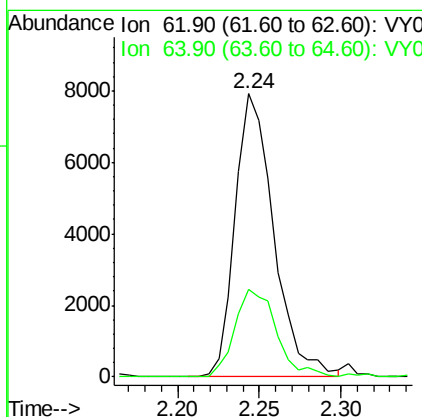
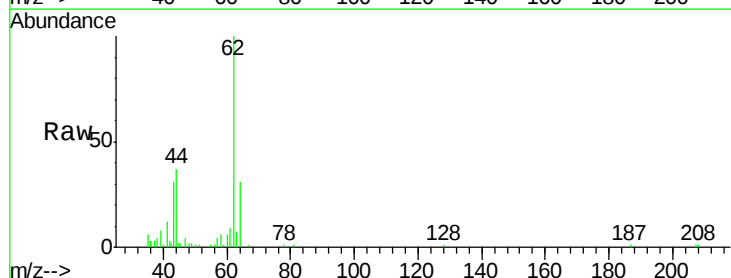
Acq: 26 Sep 2019 10:27

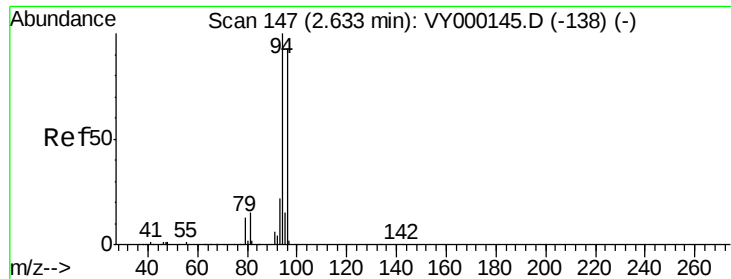
Tgt Ion: 62 Resp: 13118

Ion Ratio Lower Upper

62 100

64 31.1 24.5 36.7





#5

Bromomethane

Concen: 5.725 ug/l

RT: 2.63 min Scan# 146

Delta R.T. -0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 9725

Ion Ratio Lower Upper

94 100

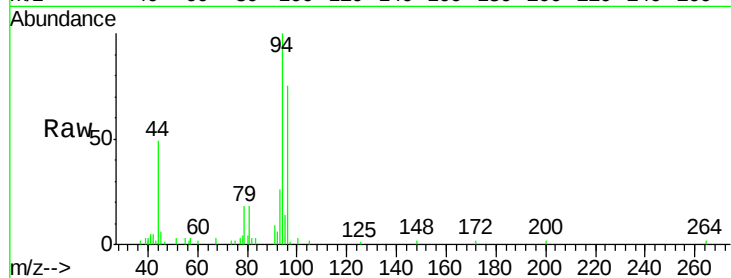
96 74.6 74.6 111.8

Manual Integrations

APPROVED

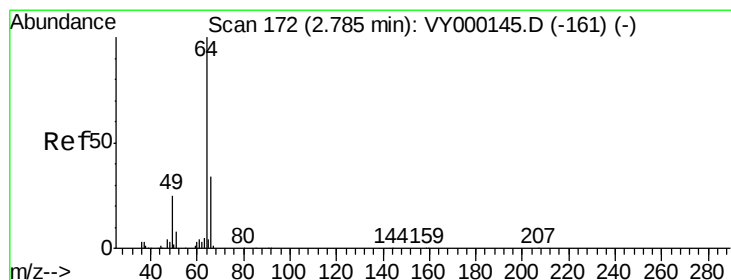
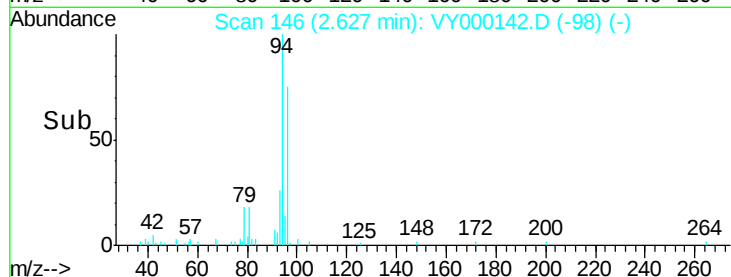
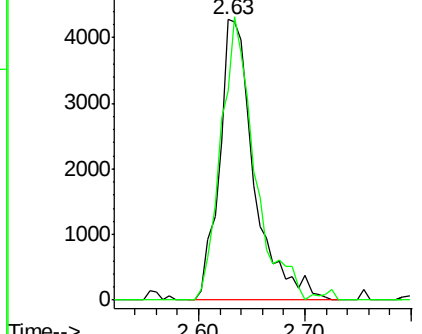
MMDadoda

10/2/2019 9:12:43 AM



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#6

Chloroethane

Concen: 5.434 ug/l

RT: 2.79 min Scan# 173

Delta R.T. 0.01 min

Lab File: VY000142.D

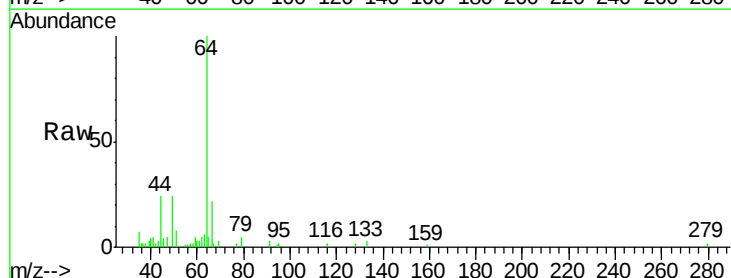
Acq: 26 Sep 2019 10:27

Tgt Ion: 64 Resp: 8498

Ion Ratio Lower Upper

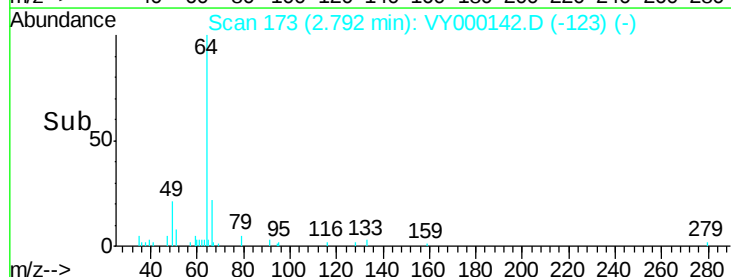
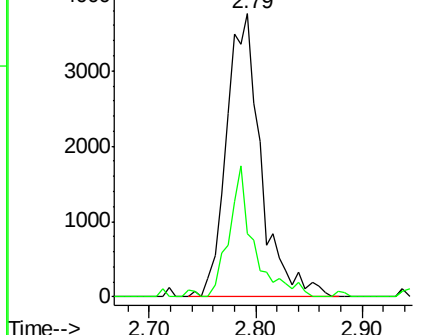
64 100

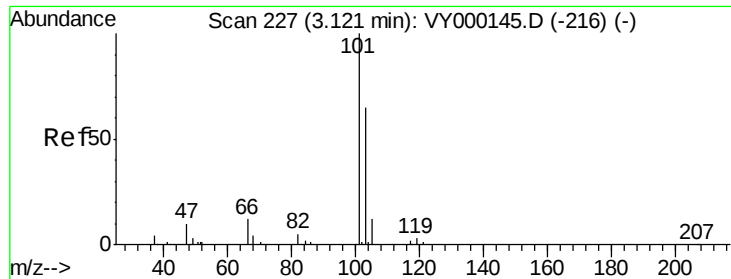
66 20.4 27.4 41.0#



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0





#7

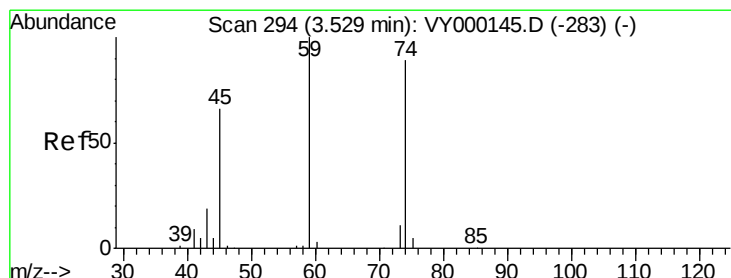
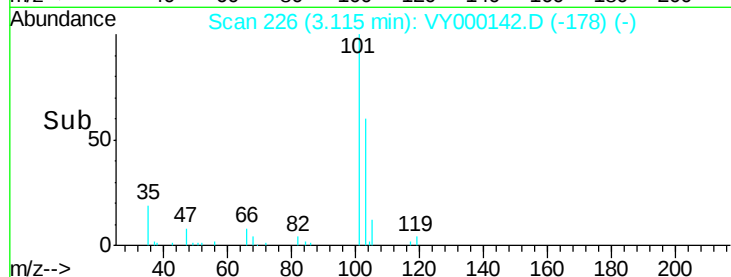
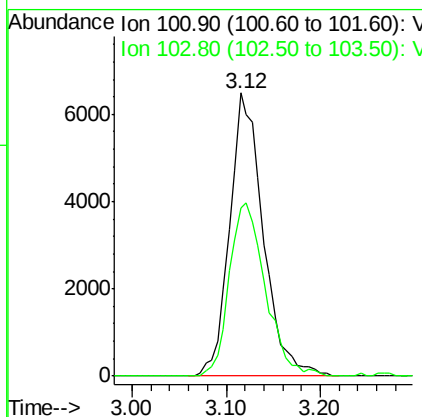
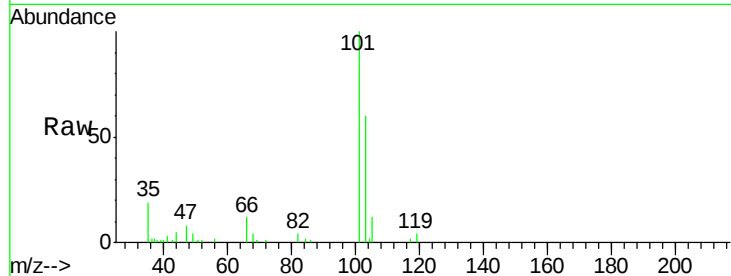
Trichlorofluoromethane
Concen: 5.281 ug/l
RT: 3.12 min Scan# 226
Delta R.T. -0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	59.5	51.9	77.9

Manual Integrations
APPROVED

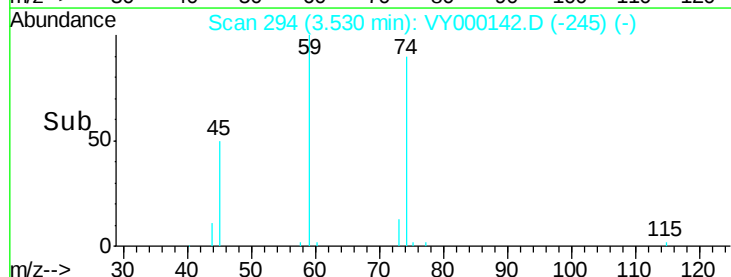
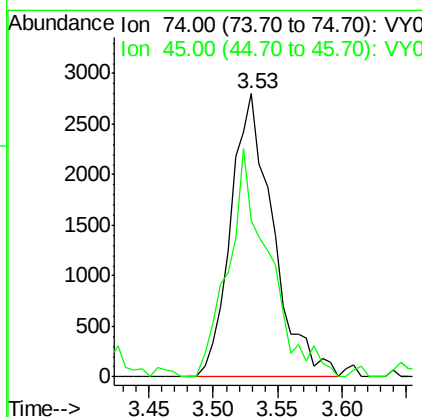
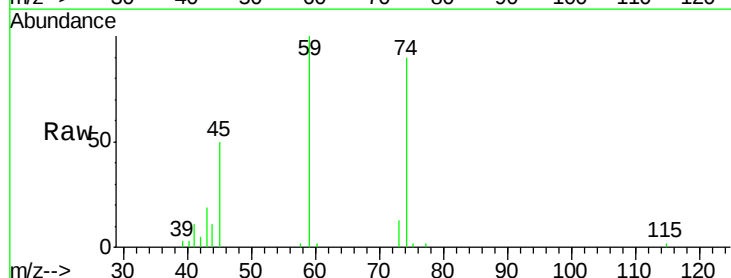
MMDadoda
10/2/2019 9:12:43 AM

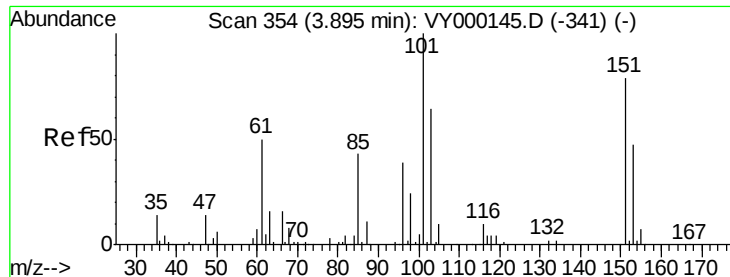


#8

Diethyl Ether
Concen: 5.301 ug/l
RT: 3.53 min Scan# 294
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
74	100		
45	77.1	37.7	113.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.221 ug/l

RT: 3.89 min Scan# 353

Delta R.T. -0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

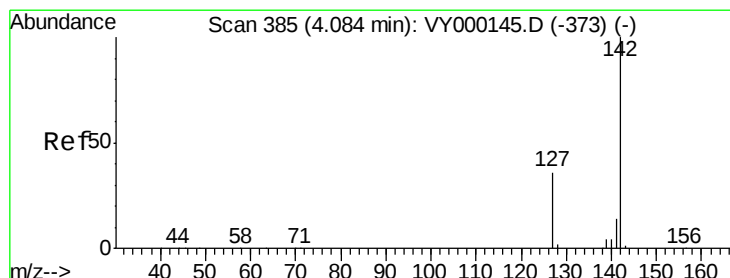
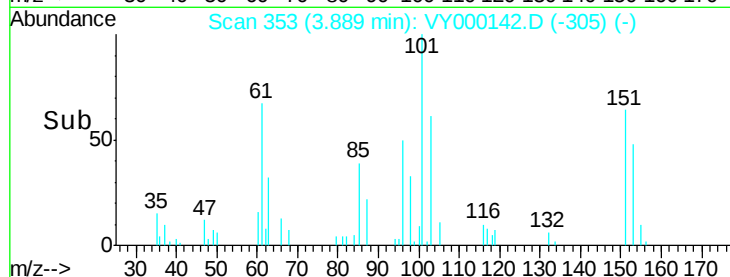
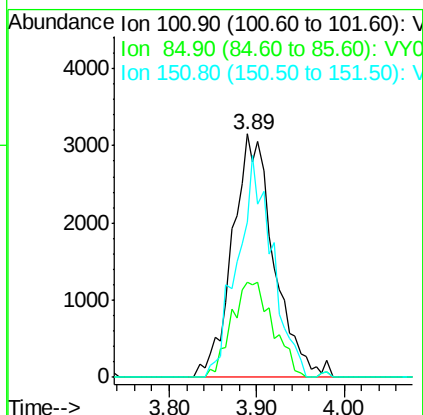
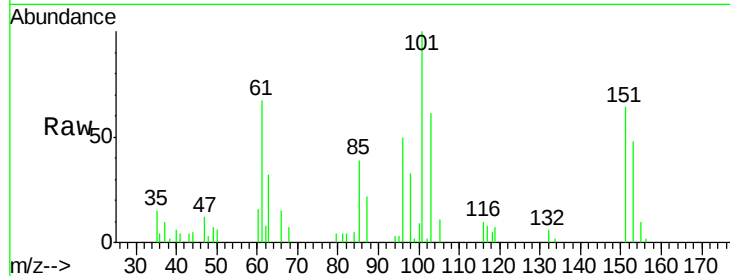
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	10349
Ion Ratio	Lower	Upper	
101	100		
85	39.3	34.8	52.2
151	76.6	64.0	96.0

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#10

Methyl Iodide

Concen: 4.244 ug/l

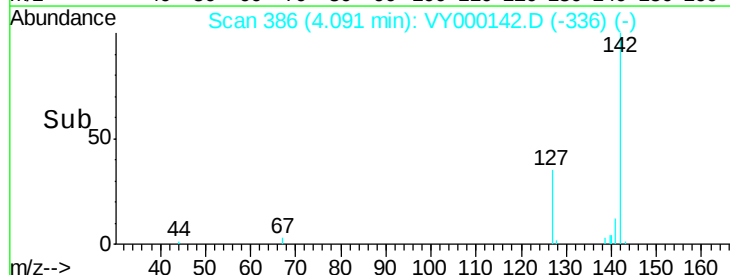
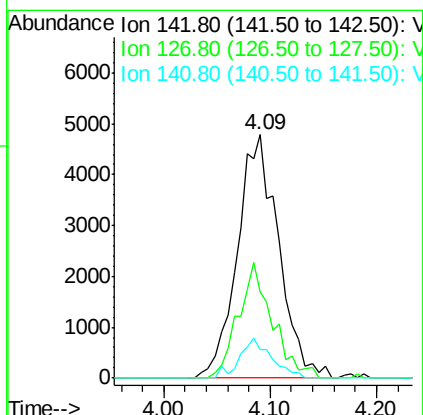
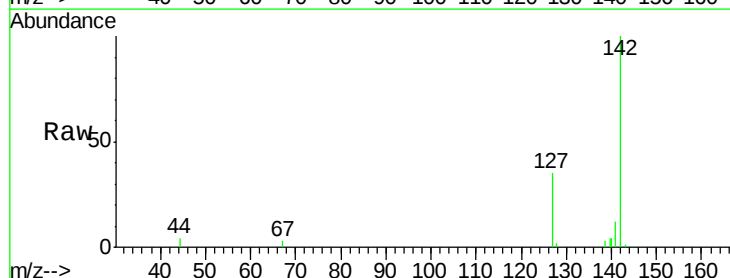
RT: 4.09 min Scan# 386

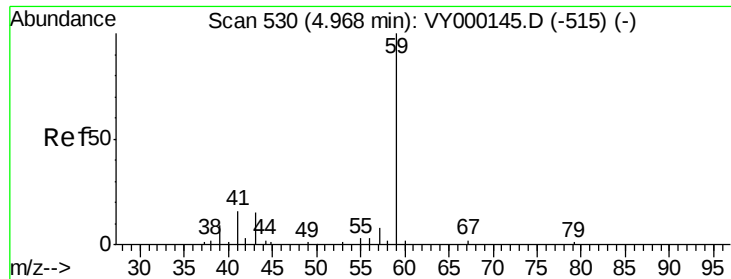
Delta R.T. 0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Tgt Ion:	142	Resp:	12970
Ion Ratio	Lower	Upper	
142	100		
127	39.3	30.0	45.0
141	12.7	11.0	16.6





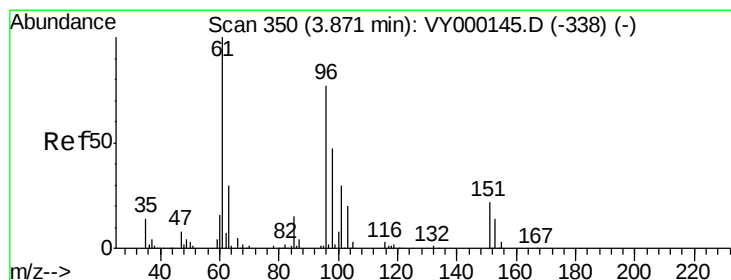
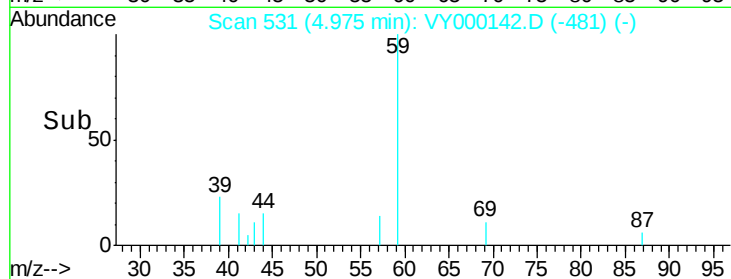
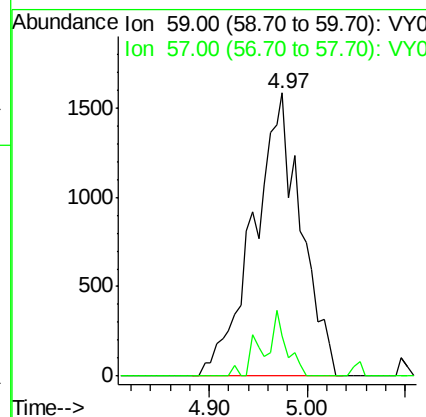
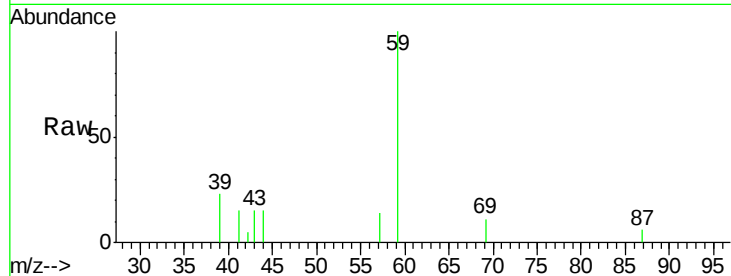
#11
Tert butyl alcohol
Concen: 30.272 ug/l
RT: 4.97 min Scan# 531
Delta R.T. 0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.0	8.9	13.3#

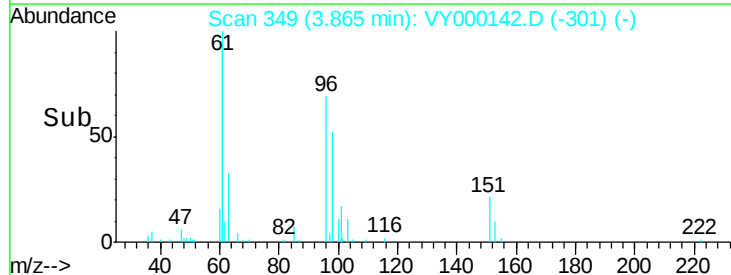
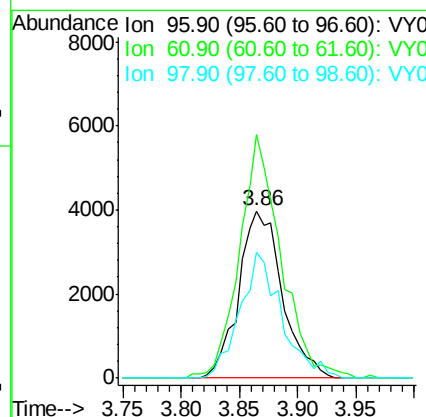
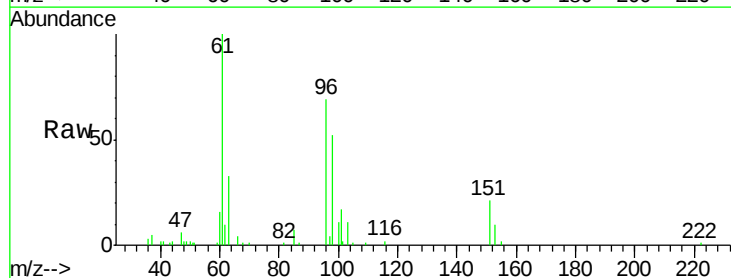
Manual Integrations
APPROVED

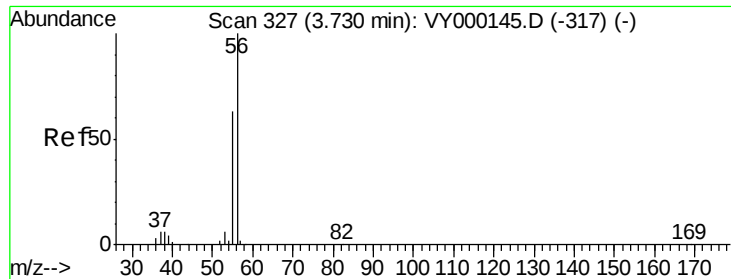
MMDadoda
10/2/2019 9:12:43 AM



#12
1,1-Dichloroethene
Concen: 4.979 ug/l
RT: 3.86 min Scan# 349
Delta R.T. -0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	143.4	103.6	155.4
98	75.2	48.7	73.1#





#13

Acrolein

Concen: 27.213 ug/l

RT: 3.74 min Scan# 328

Delta R.T. 0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 5977

Ion Ratio Lower Upper

56 100

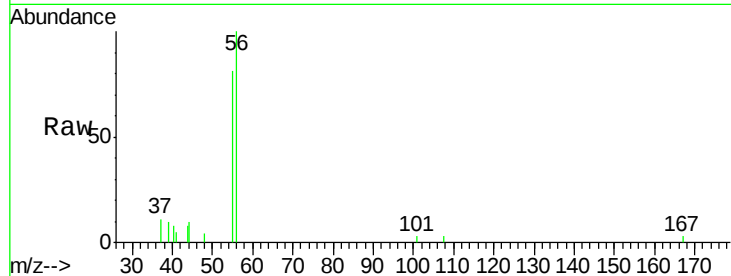
55 70.8 53.1 79.7

Manual Integrations

APPROVED

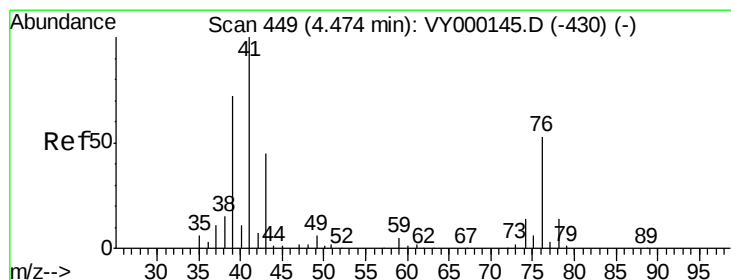
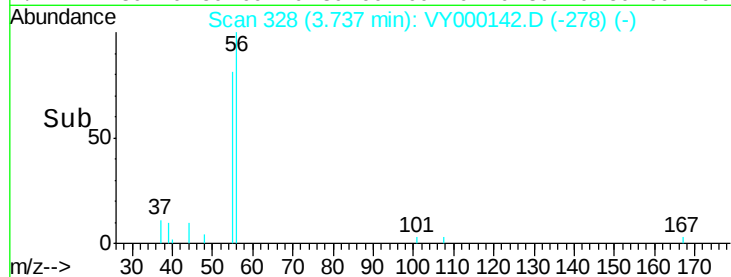
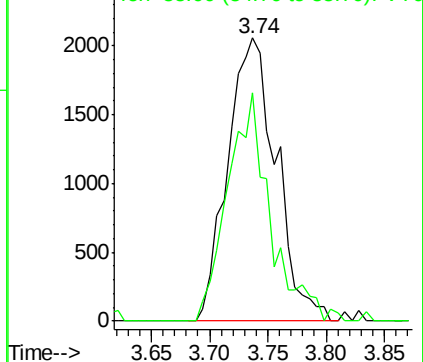
MMDadoda

10/2/2019 9:12:43 AM



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 5.070 ug/l

RT: 4.47 min Scan# 449

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

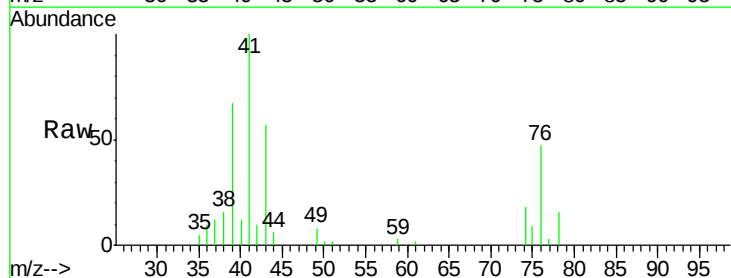
Tgt Ion: 41 Resp: 13187

Ion Ratio Lower Upper

41 100

39 76.9 54.6 82.0

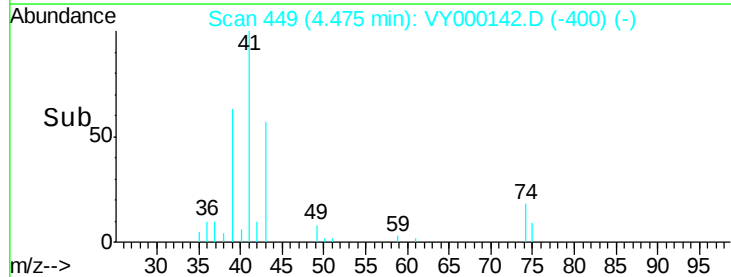
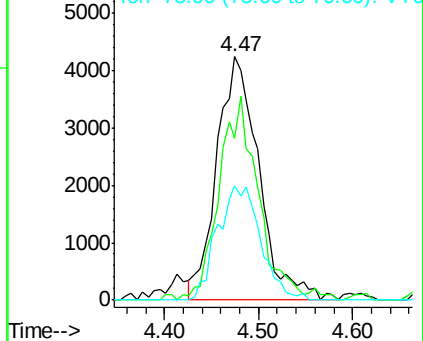
76 48.1 39.0 58.6

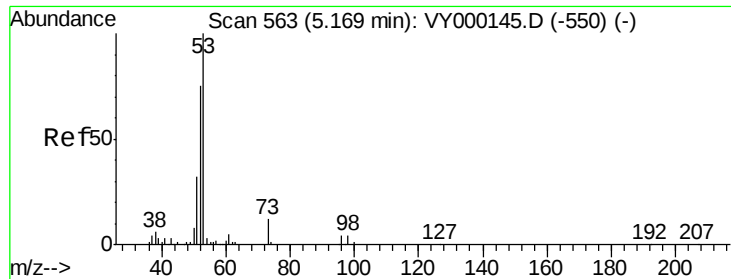


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 26.789 ug/l

RT: 5.17 min Scan# 563

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

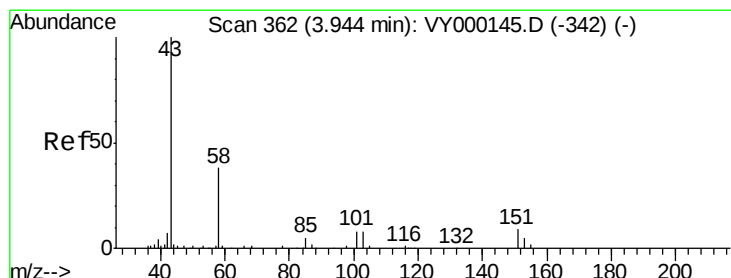
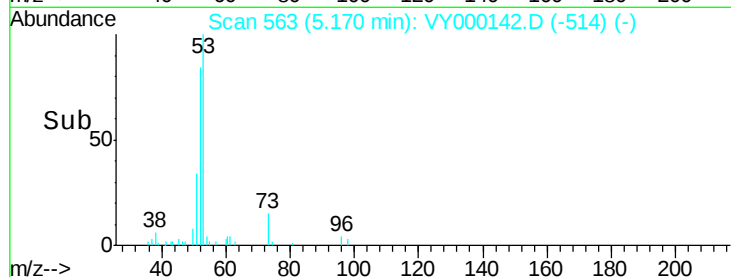
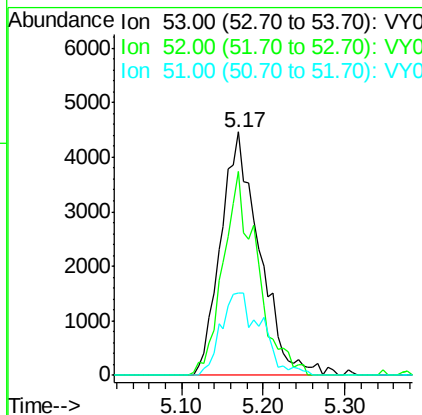
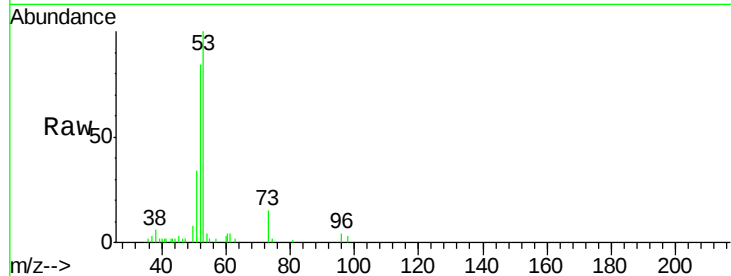
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	14749
Ion	Ratio	Lower	Upper
53	100		
52	73.6	62.9	94.3
51	35.4	27.5	41.3

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#16

Acetone

Concen: 30.766 ug/l

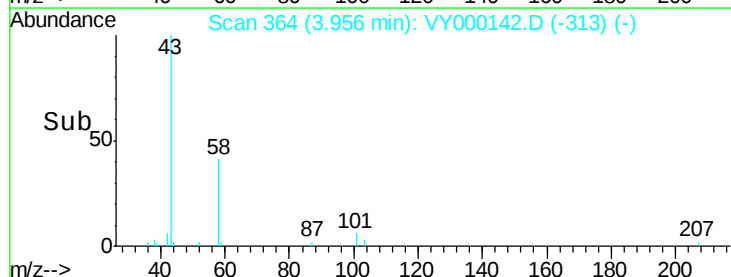
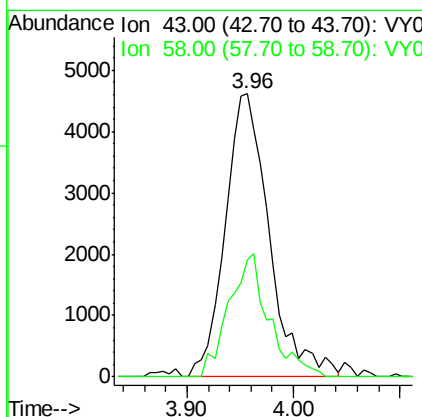
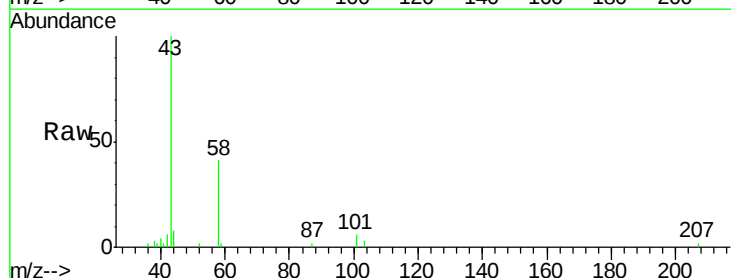
RT: 3.96 min Scan# 364

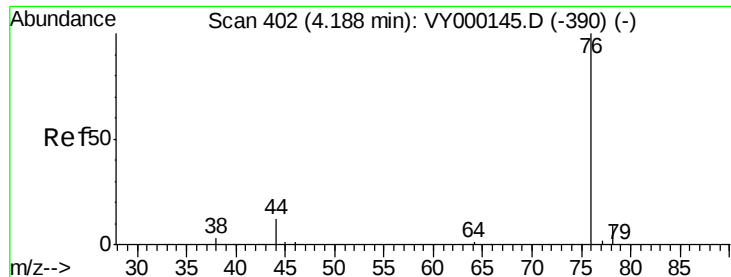
Delta R.T. 0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Tgt Ion:	43	Resp:	13345
Ion	Ratio	Lower	Upper
43	100		
58	41.4	30.4	45.6





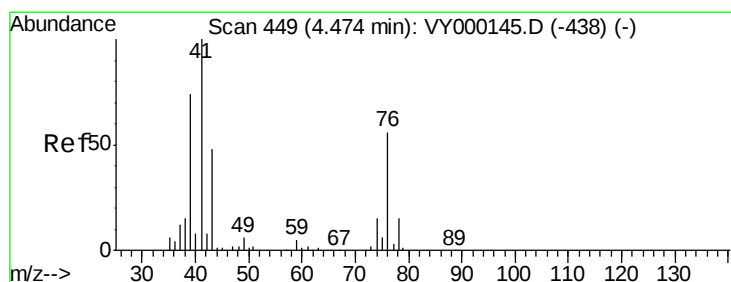
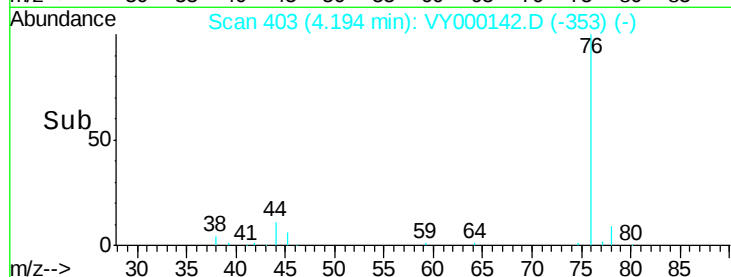
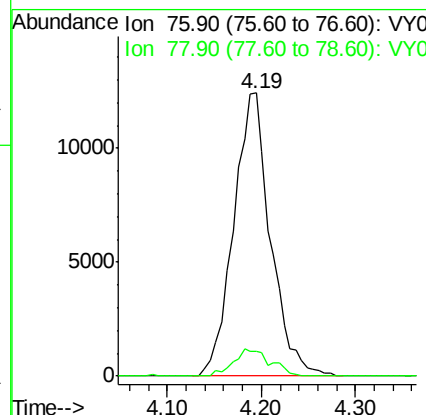
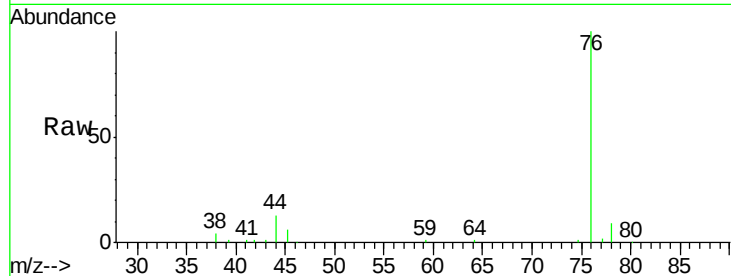
#17
Carbon Disulfide
Concen: 5.222 ug/l
RT: 4.19 min Scan# 403
Delta R.T. 0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampled :
VSTDIC005

Tot Ion: 76 Resp: 33672
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.4

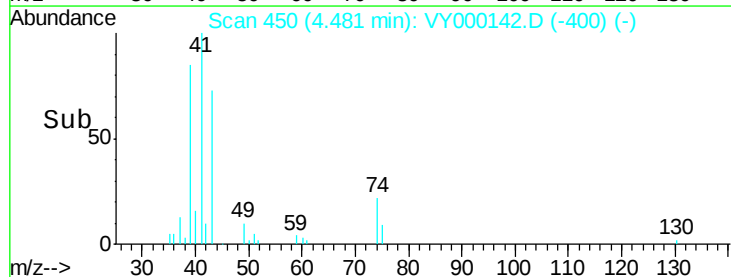
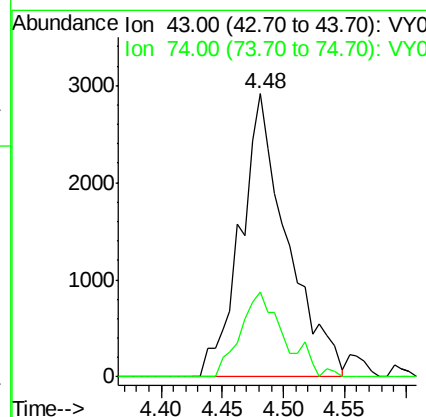
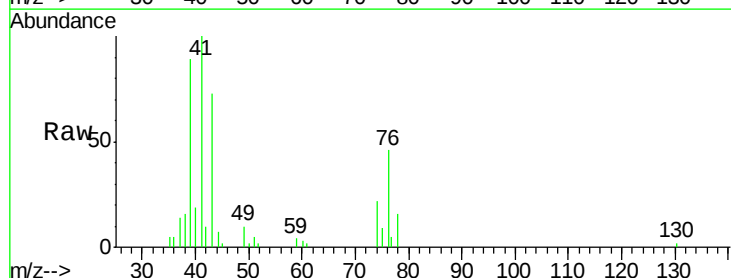
Manual Integrations
APPROVED

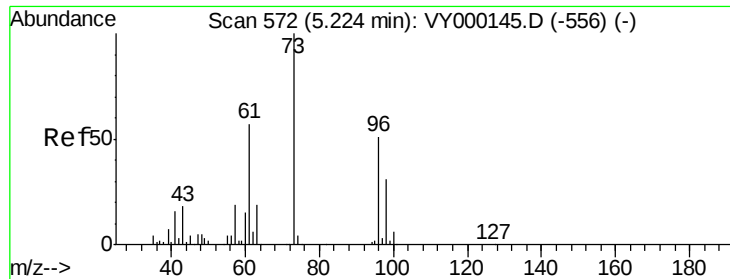
MMDadoda
10/2/2019 9:12:43 AM



#18
Methyl Acetate
Concen: 5.983 ug/l
RT: 4.48 min Scan# 450
Delta R.T. 0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion: 43 Resp: 7681
Ion Ratio Lower Upper
43 100
74 28.4 25.6 38.4





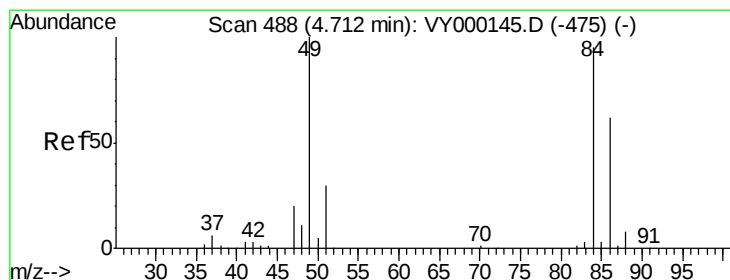
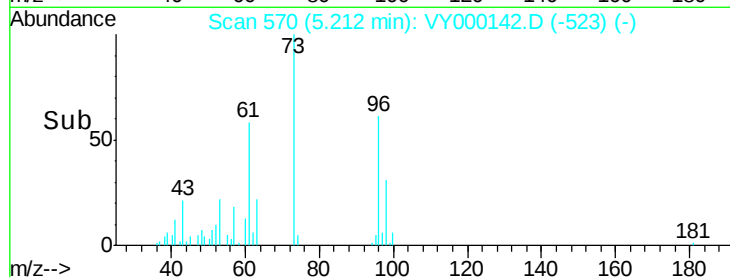
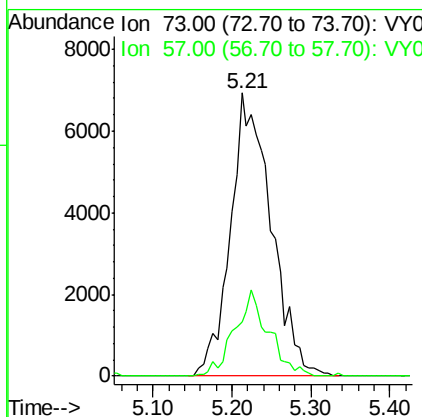
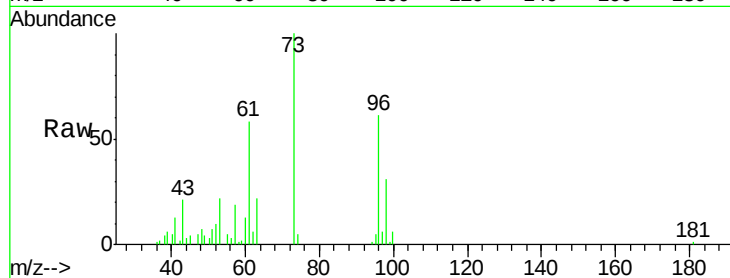
#19
Methvl tert-butvl Ether
Concen: 5.042 ug/l
RT: 5.21 min Scan# 570
Delta R.T. -0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.1	15.5	23.3

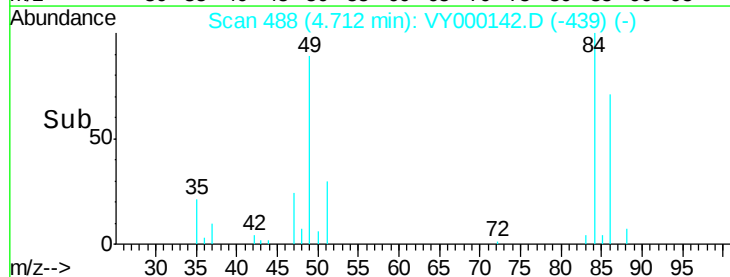
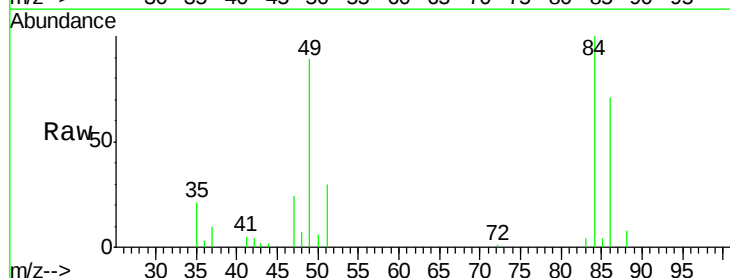
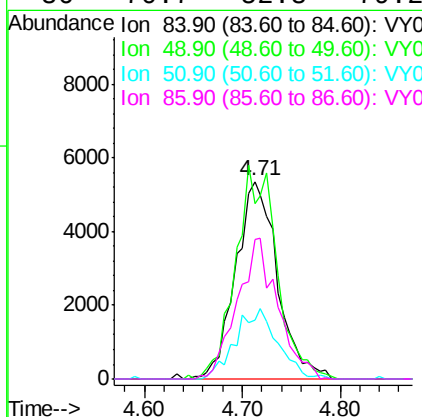
Manual Integrations
APPROVED

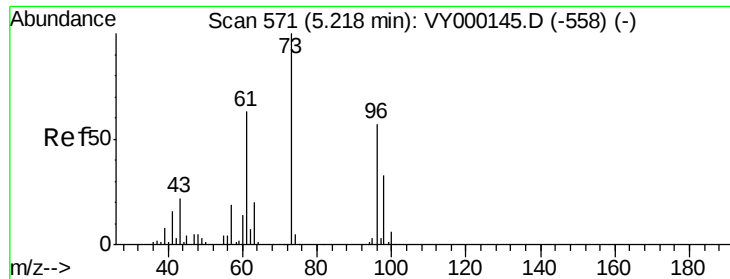
MMDadoda
10/2/2019 9:12:43 AM



#20
Methylene Chloride
Concen: 6.368 ug/l
RT: 4.71 min Scan# 488
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
84	100		
49	88.7	84.6	126.8
51	29.6	25.4	38.2
86	70.7	52.8	79.2





#21

trans-1,2-Dichloroethene

Concen: 5.254 ug/l

RT: 5.21 min Scan# 570

Delta R.T. -0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

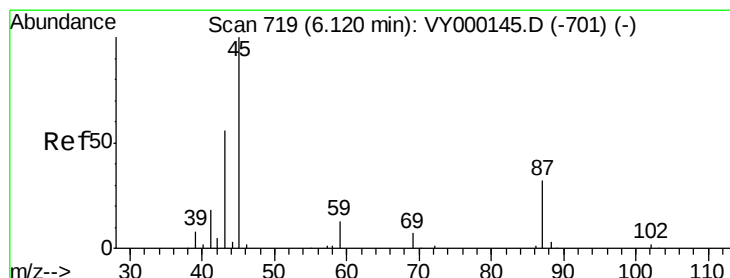
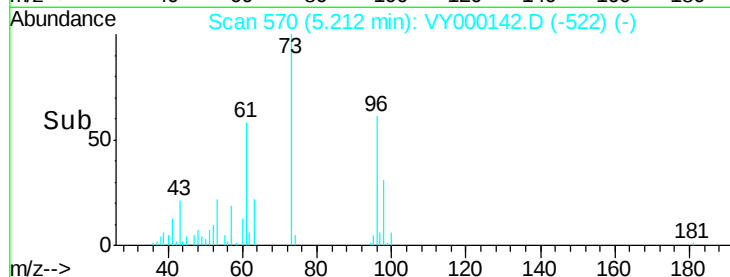
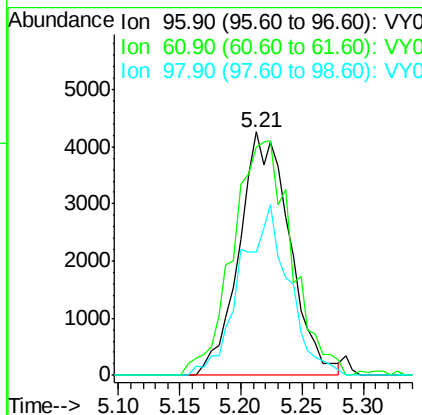
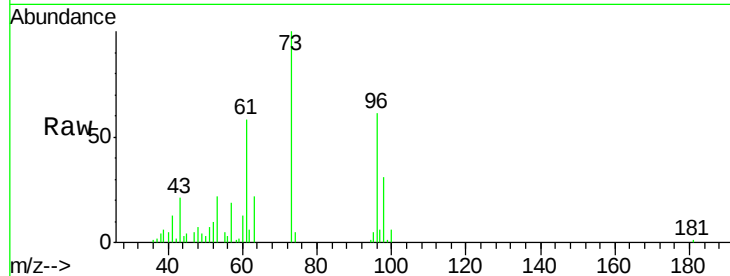
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	12167
Ion	Ratio	Lower	Upper
96	100		
61	88.9	88.0	132.0
98	50.8	45.6	68.4

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#22

Diisopropyl ether

Concen: 5.045 ug/l

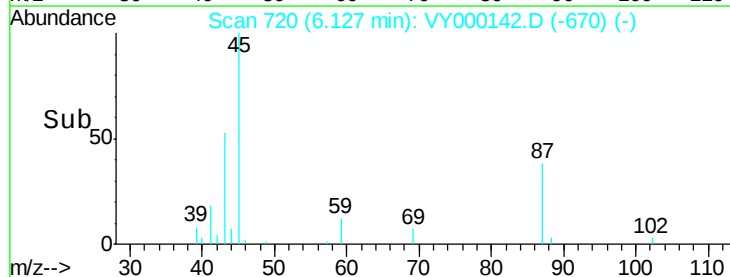
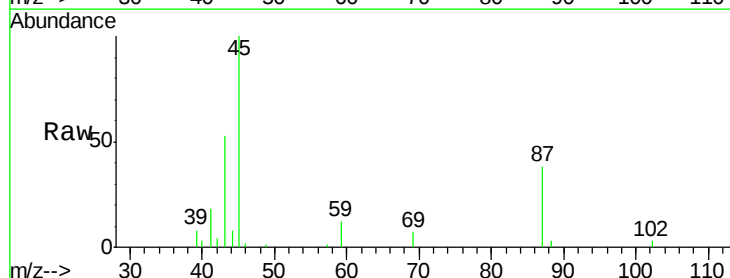
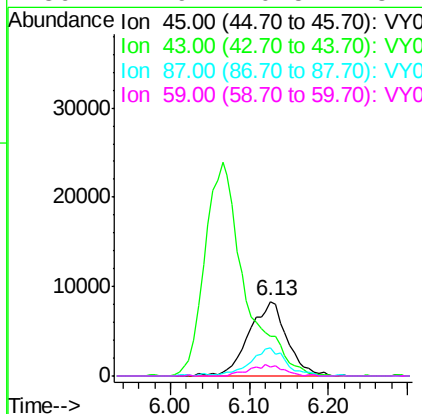
RT: 6.13 min Scan# 720

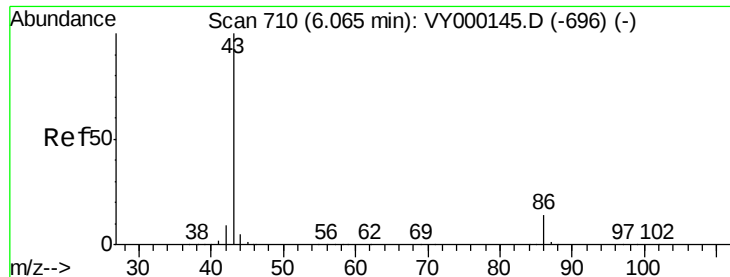
Delta R.T. 0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Tgt Ion:	45	Resp:	27575
Ion	Ratio	Lower	Upper
45	100		
43	52.8	48.4	72.6
87	36.7	26.6	39.8
59	11.9	10.5	15.7





#23

Vinyl Acetate

Concen: 24.521 ug/l

RT: 6.07 min Scan# 710

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 84003

Ion Ratio Lower Upper

43 100

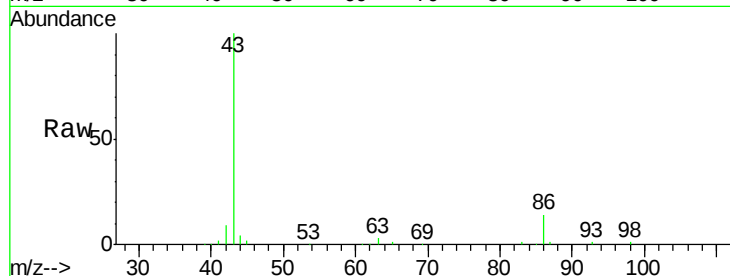
86 14.5 11.1 16.7

Manual Integrations

APPROVED

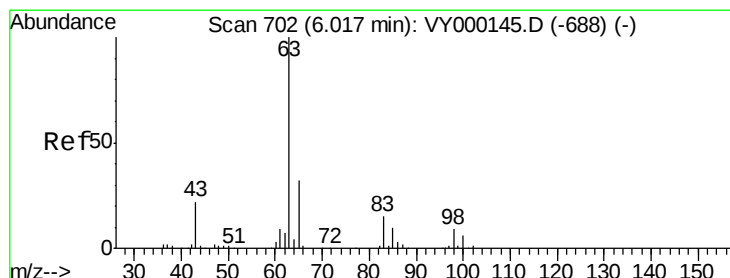
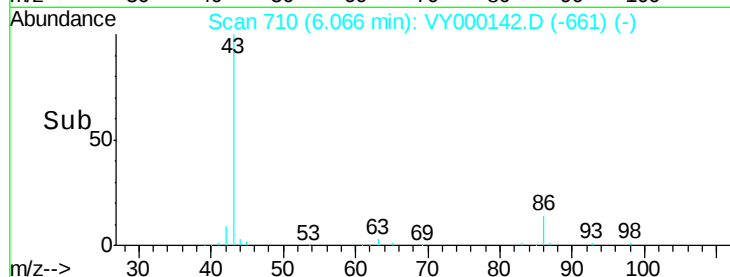
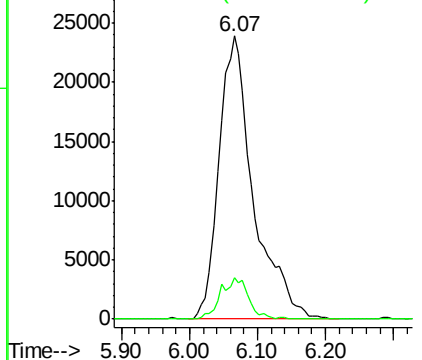
MMDadoda

10/2/2019 9:12:43 AM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0



#24

1,1-Dichloroethane

Concen: 5.159 ug/l

RT: 6.02 min Scan# 703

Delta R.T. 0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

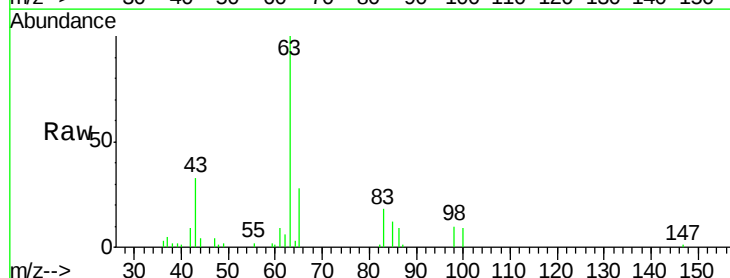
Tgt Ion: 63 Resp: 17070

Ion Ratio Lower Upper

63 100

98 10.1 4.6 13.8

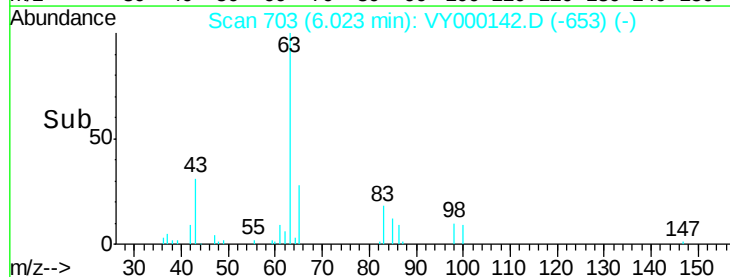
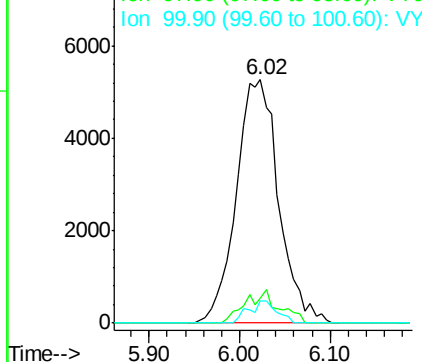
100 9.0 2.8 8.4#

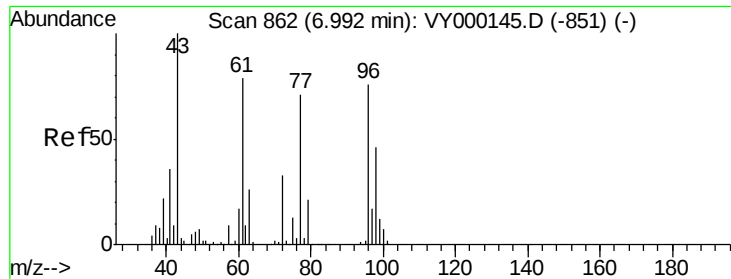


Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

Ion 99.90 (99.60 to 100.60): VY0





#25

2-Butanone

Concen: 27.496 ug/l

RT: 6.99 min Scan# 862

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 18687

Ion Ratio Lower Upper

43 100

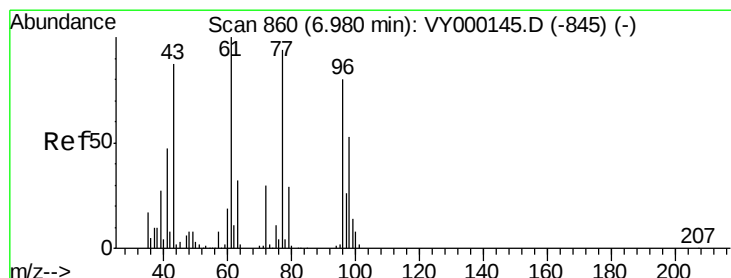
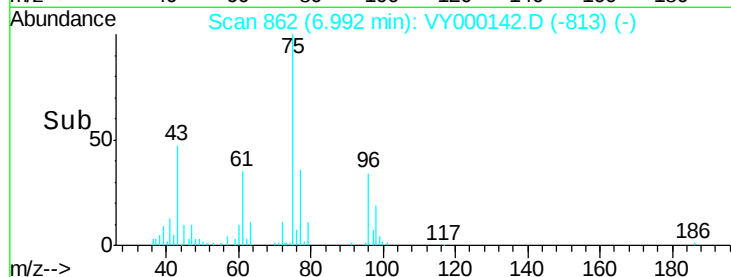
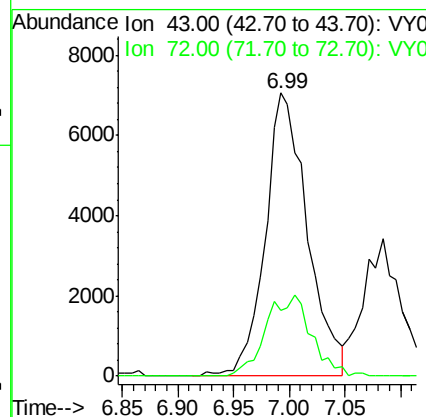
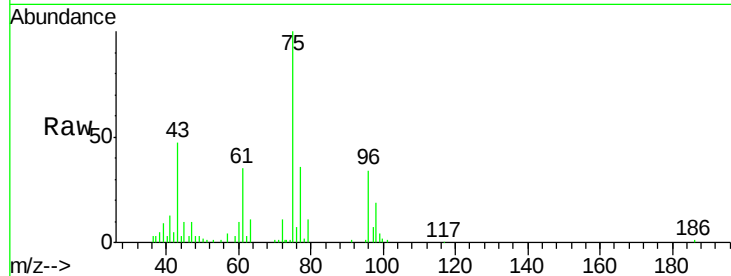
72 23.3 26.8 40.2#

Manual Integrations

APPROVED

MMDadoda

10/2/2019 9:12:43 AM



#26

2,2-Dichloropropane

Concen: 5.678 ug/l

RT: 6.98 min Scan# 860

Delta R.T. 0.00 min

Lab File: VY000142.D

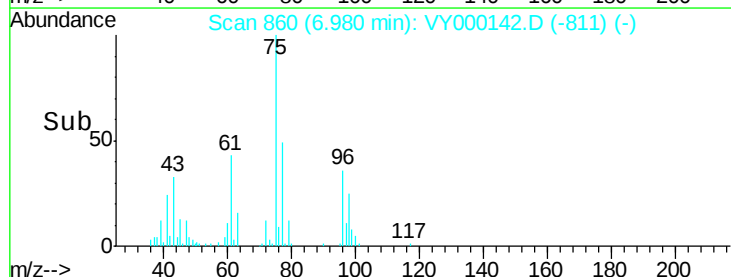
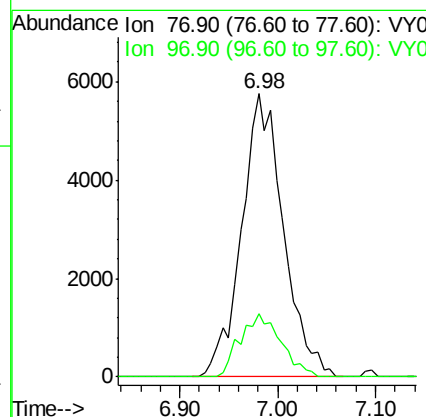
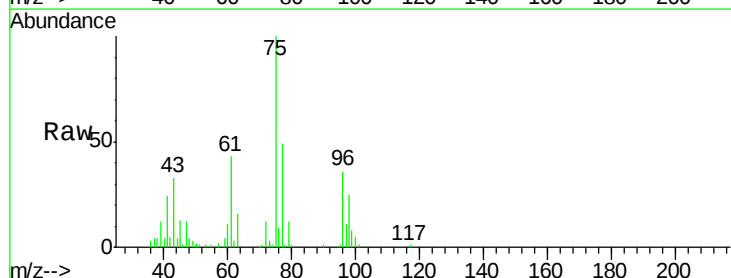
Acq: 26 Sep 2019 10:27

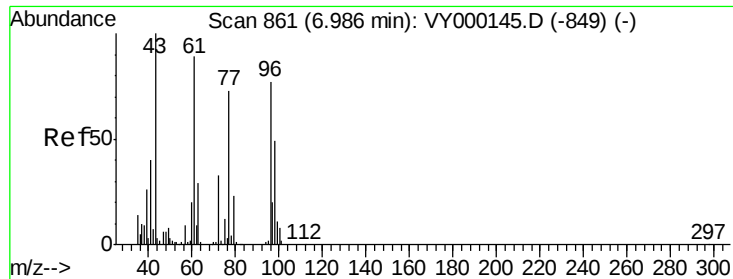
Tgt Ion: 77 Resp: 17084

Ion Ratio Lower Upper

77 100

97 21.7 13.0 38.9





#27

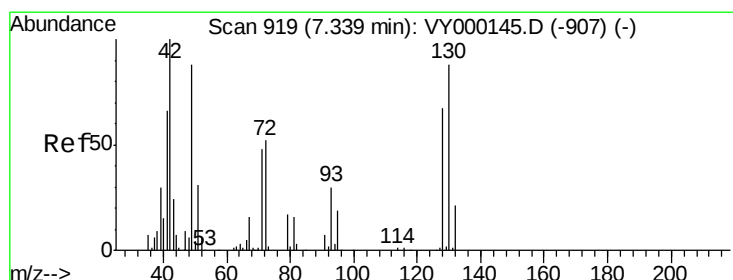
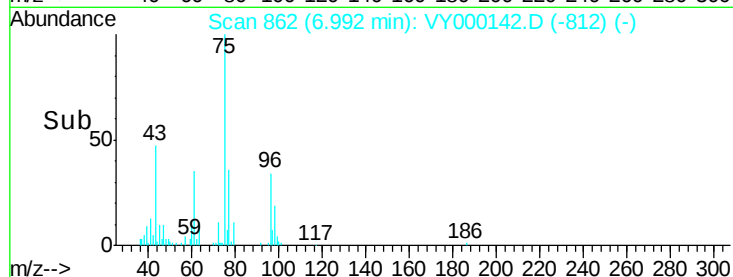
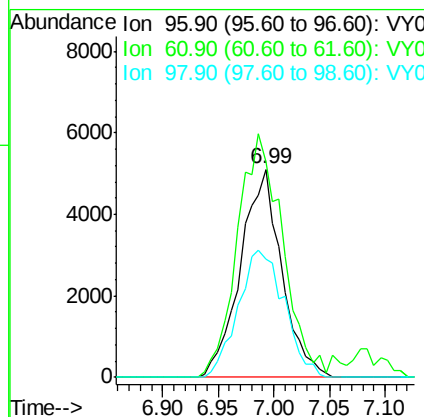
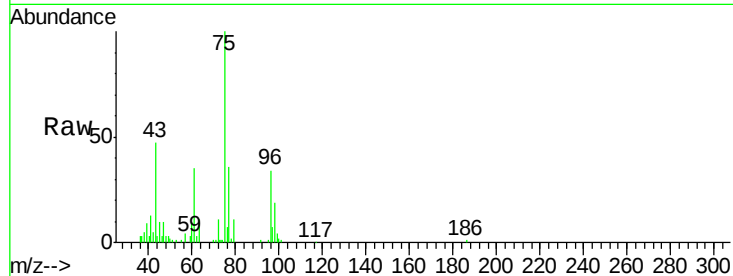
cis-1,2-Dichloroethene
Concen: 5.091 ug/l
RT: 6.99 min Scan# 862
Delta R.T. 0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	128.5	0.0	232.8
98	68.4	0.0	128.8

Manual Integrations
APPROVED

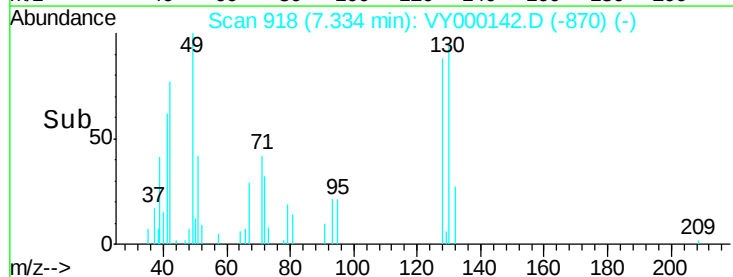
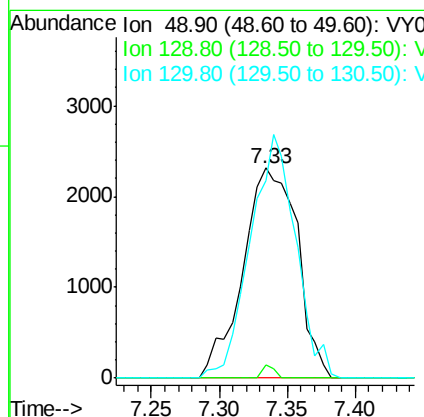
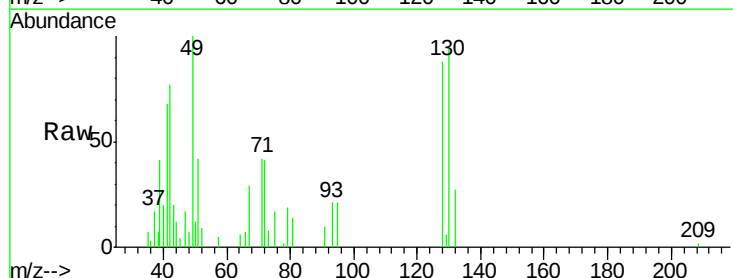
MMDadoda
10/2/2019 9:12:43 AM

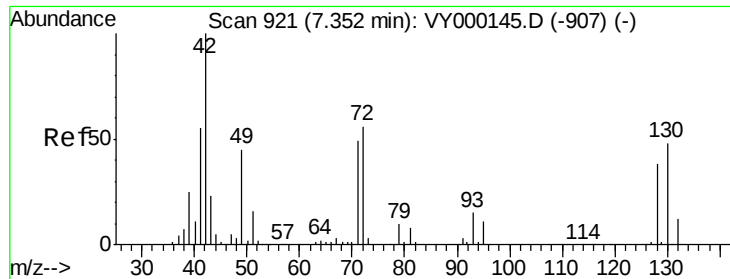


#28

Bromochloromethane
Concen: 5.140 ug/l
RT: 7.33 min Scan# 918
Delta R.T. -0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	4.6
130	96.7	79.5	119.3





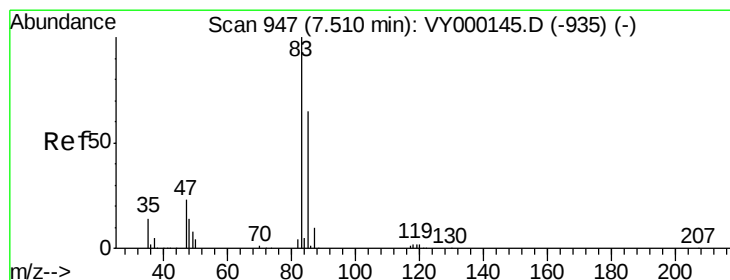
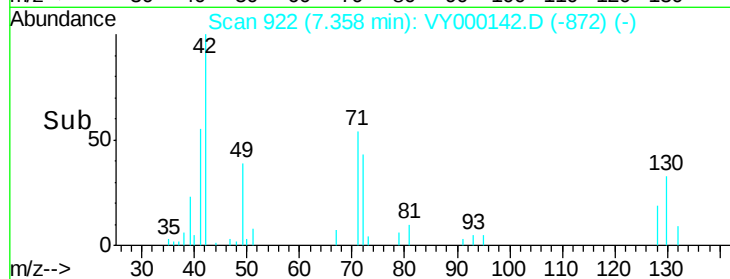
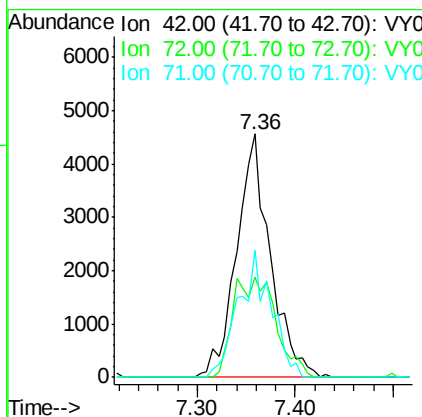
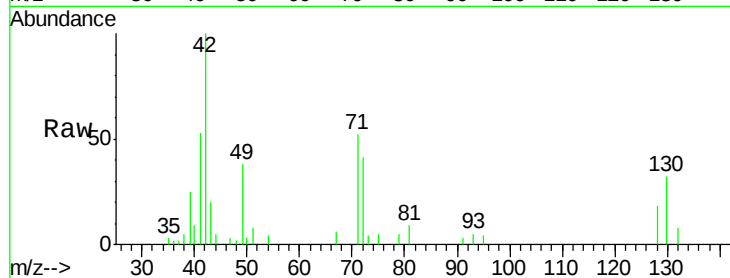
#29
Tetrahydrofuran
Concen: 25.988 ug/l
RT: 7.36 min Scan# 922
Delta R.T. 0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	22.1	43.1	64.7#
71	50.7	39.4	59.2

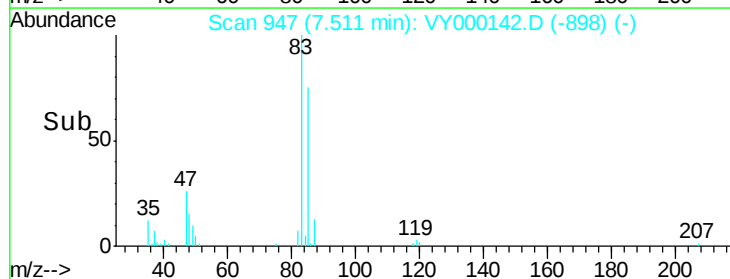
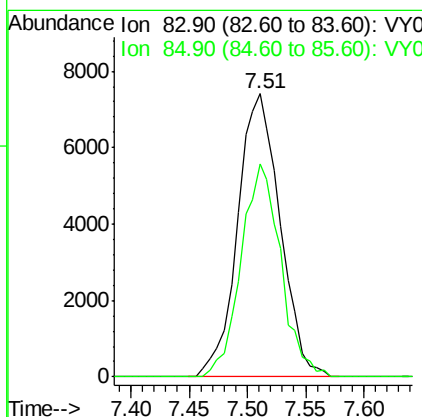
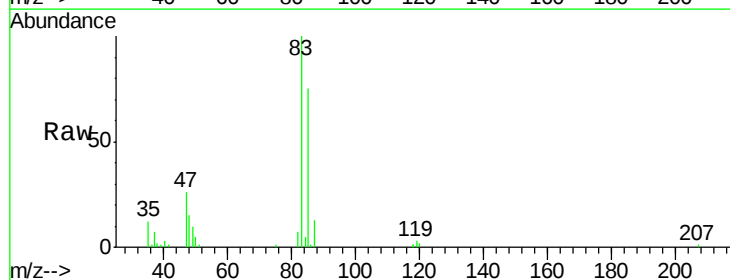
Manual Integrations
APPROVED

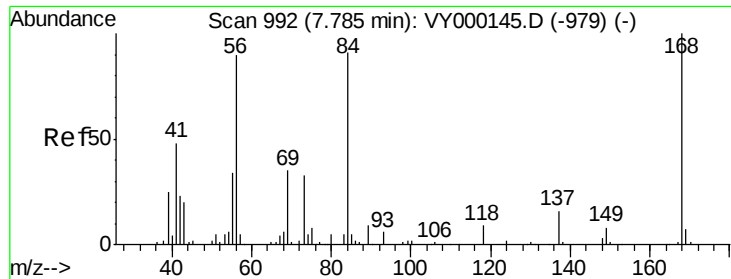
MMDadoda
10/2/2019 9:12:43 AM



#30
Chloroform
Concen: 5.439 ug/l
RT: 7.51 min Scan# 947
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	75.0	52.4	78.6





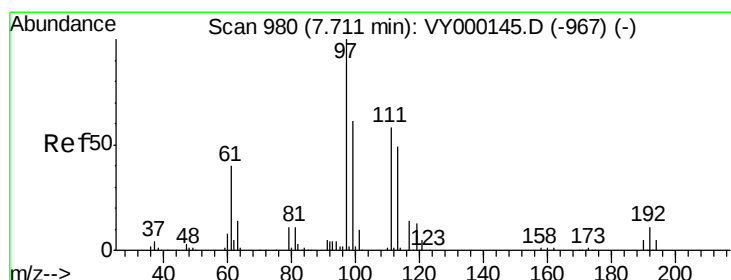
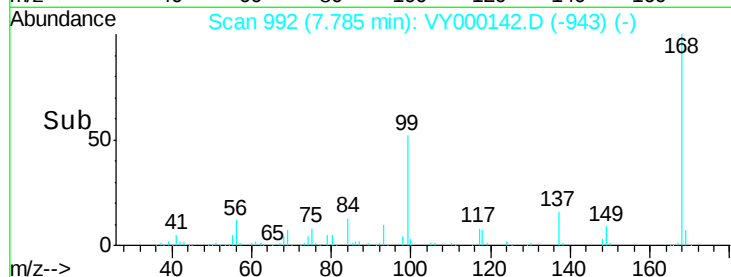
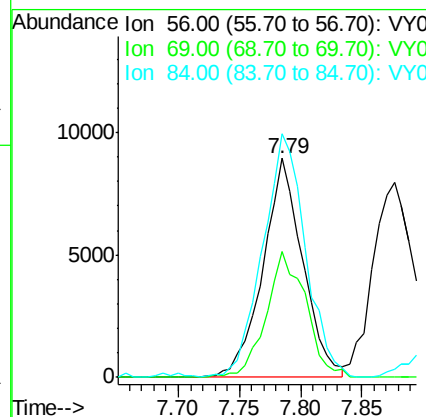
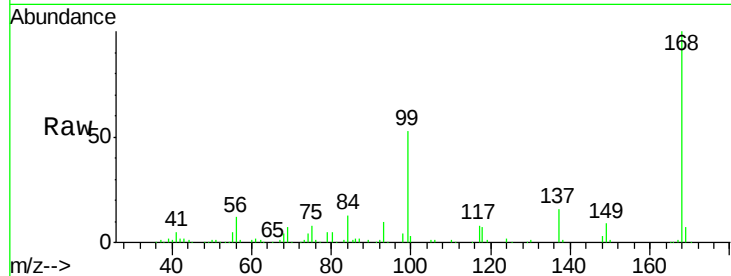
#31
Cyclohexane
Concen: 5.941 ug/l
RT: 7.79 min Scan# 992
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	57.1	31.1	46.7#
84	110.3	80.5	120.7

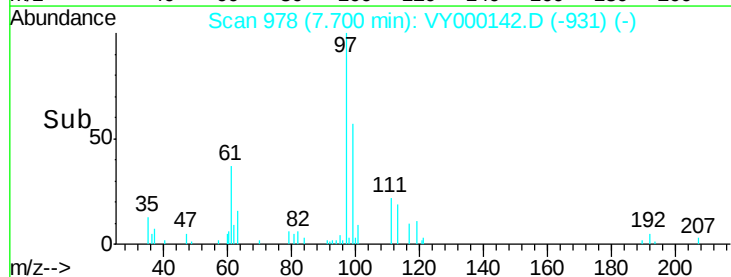
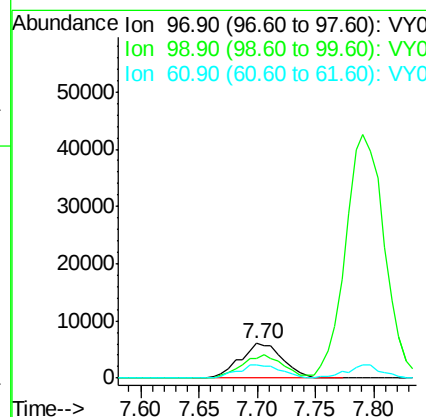
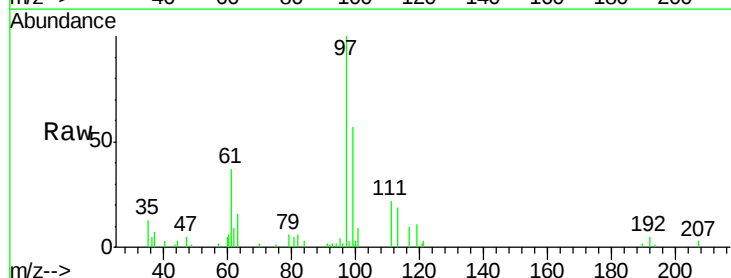
Manual Integrations
APPROVED

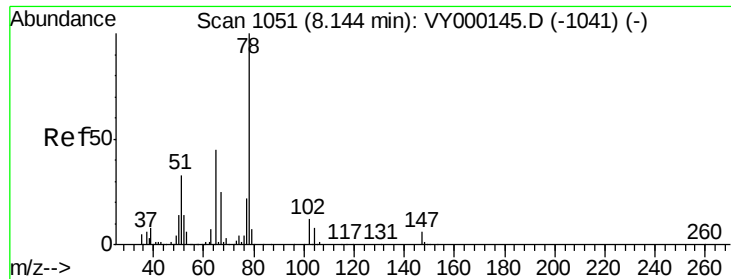
MMDadoda
10/2/2019 9:12:43 AM



#32
1,1,1-Trichloroethane
Concen: 5.098 ug/l
RT: 7.70 min Scan# 978
Delta R.T. -0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.8	50.5	75.7
61	39.6	32.9	49.3





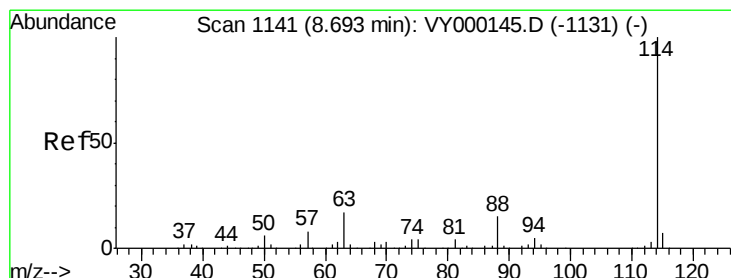
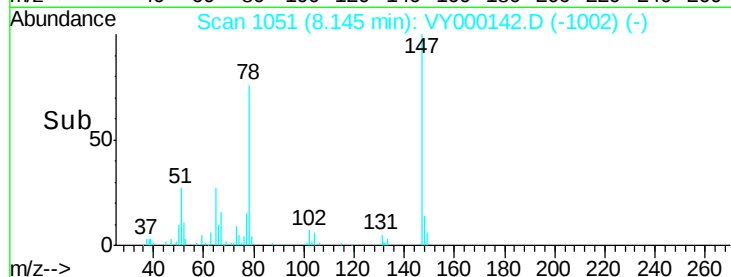
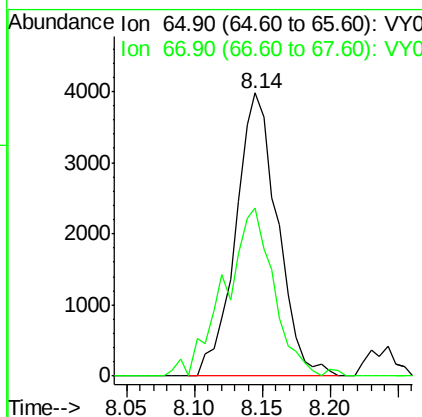
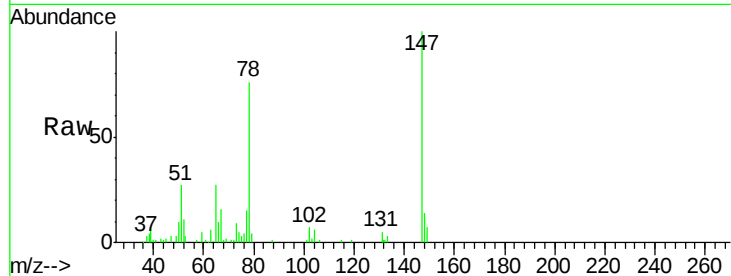
#33
 1,2-Dichloroethane-d4
 Concen: 4.831 ug/l
 RT: 8.14 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
65	100	8552		
67	69.2	0.0	110.6	

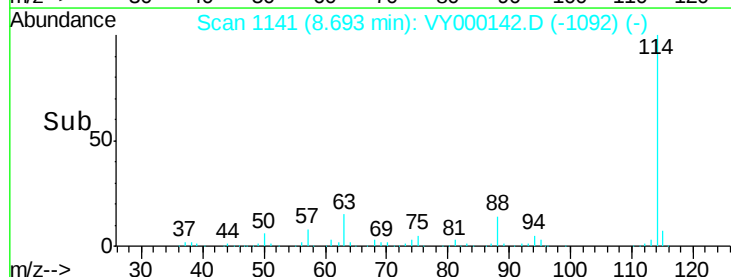
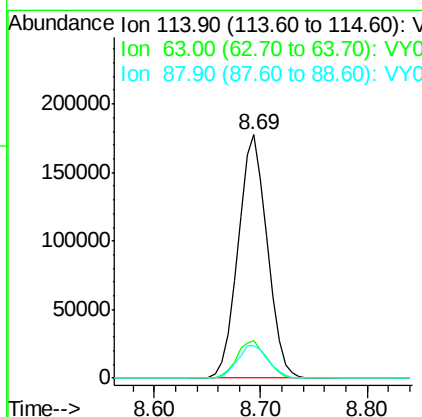
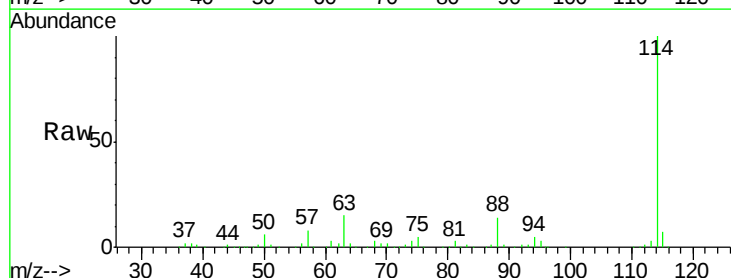
Manual Integrations
 APPROVED

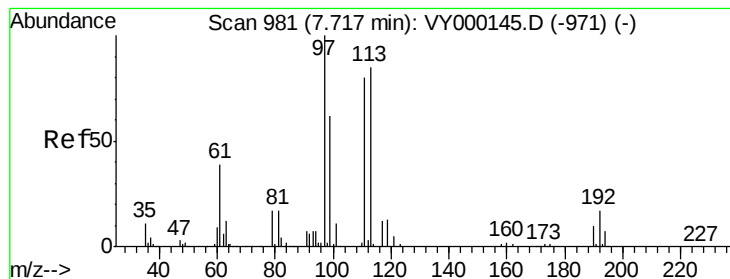
MMDadoda
 10/2/2019 9:12:43 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. 0.00 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	339939		
63	15.4	0.0	34.6	
88	13.6	0.0	30.6	





#35

Dibromofluoromethane

Concen: 4.368 ug/l

RT: 7.72 min Scan# 981

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

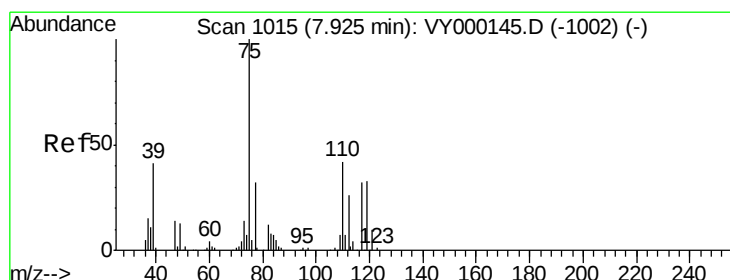
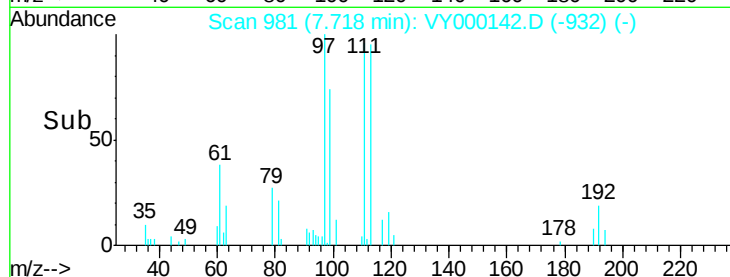
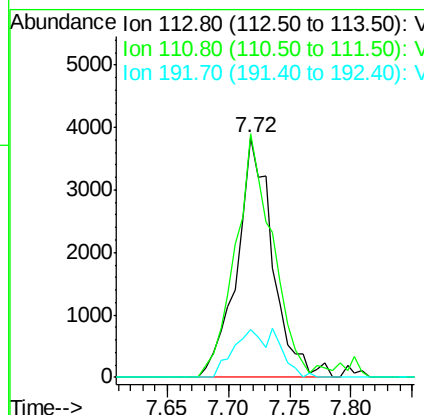
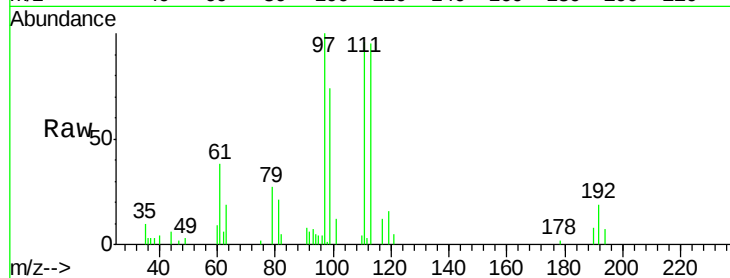
ClientSampleId :

VSTDIC005

Tot Ion:	113	Resp:	7776
Ion Ratio	Lower	Upper	
113	100		
111	105.2	82.0	123.0
192	16.8	17.3	25.9#

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#36

1,1-Dichloropropene

Concen: 5.568 ug/l

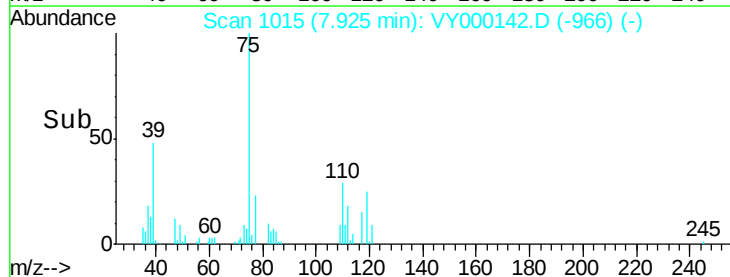
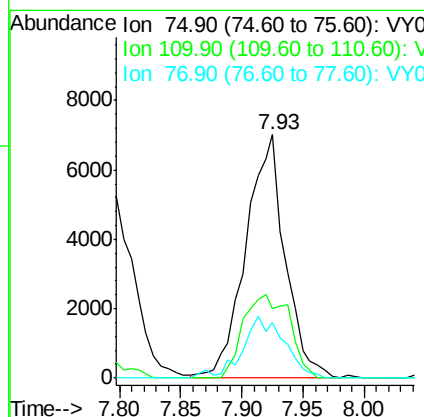
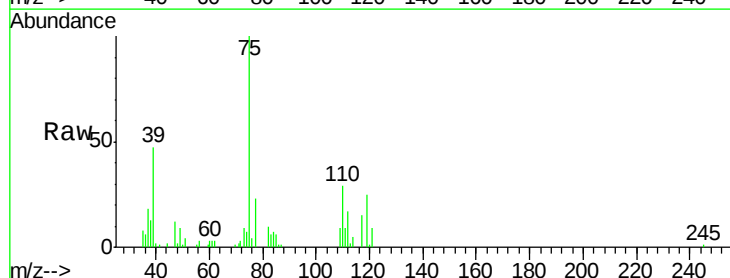
RT: 7.93 min Scan# 1015

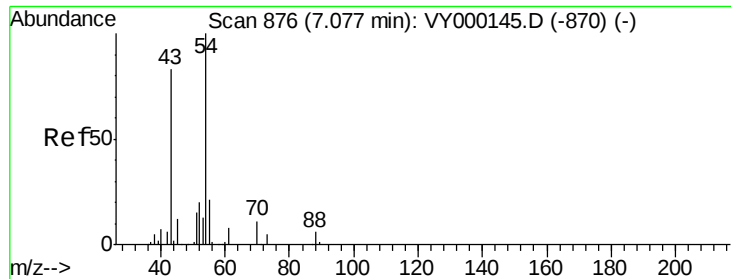
Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Tgt Ion:	75	Resp:	15729
Ion Ratio	Lower	Upper	
75	100		
110	40.1	21.1	63.1
77	26.9	24.6	36.8





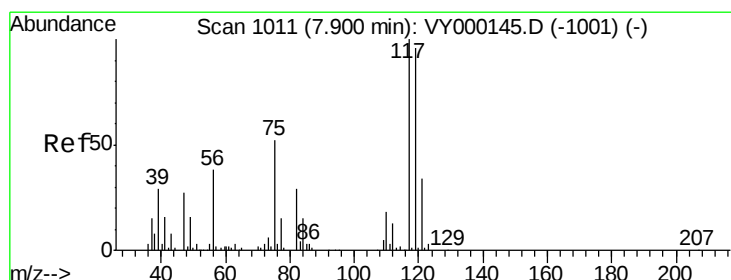
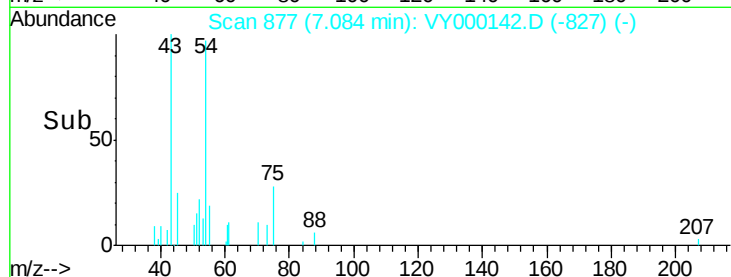
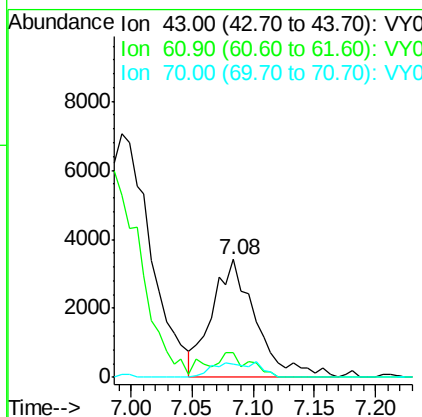
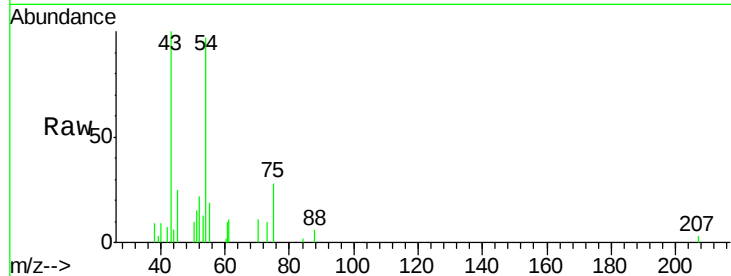
#37
Ethyl Acetate
Concen: 5.729 ug/l
RT: 7.08 min Scan# 877
Delta R.T. 0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.9	17.9
70	13.0	10.2	15.2

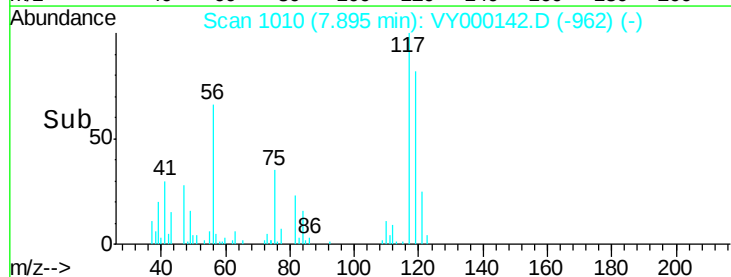
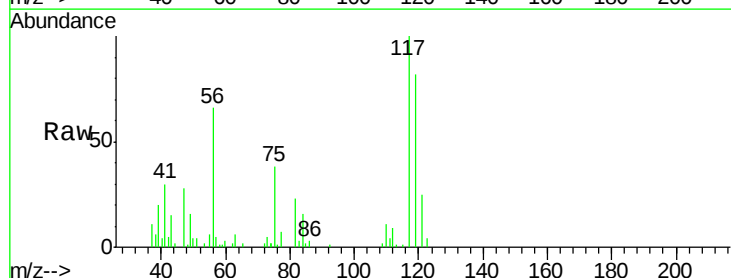
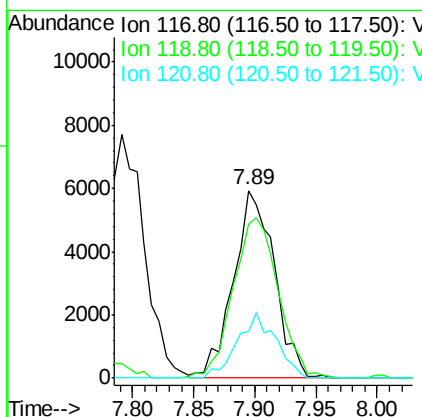
Manual Integrations
APPROVED

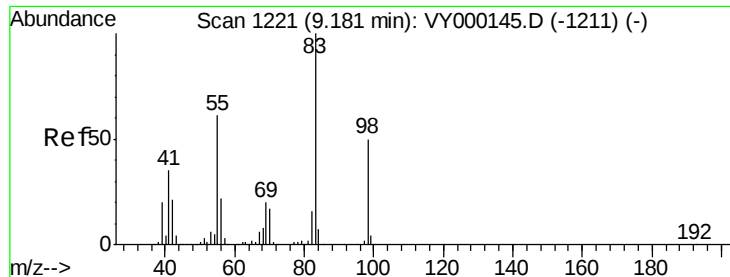
MMDadoda
10/2/2019 9:12:43 AM



#38
Carbon Tetrachloride
Concen: 5.007 ug/l
RT: 7.89 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	82.2	76.9	115.3
121	24.6	27.4	41.0#





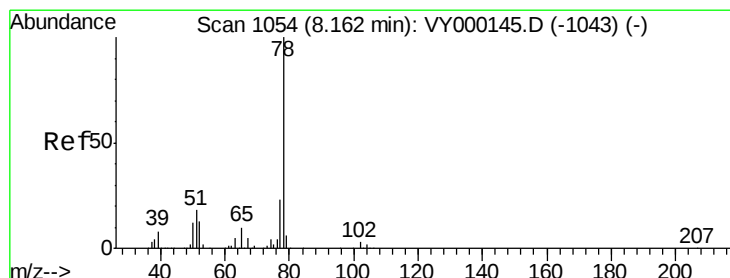
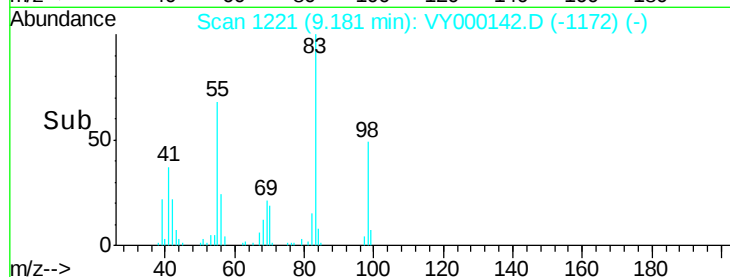
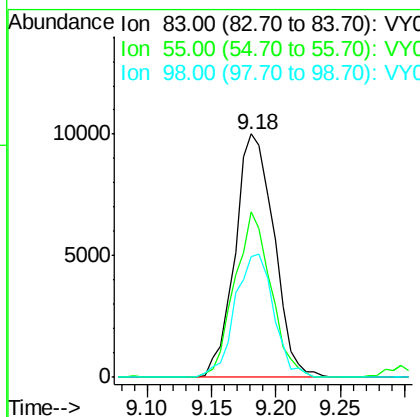
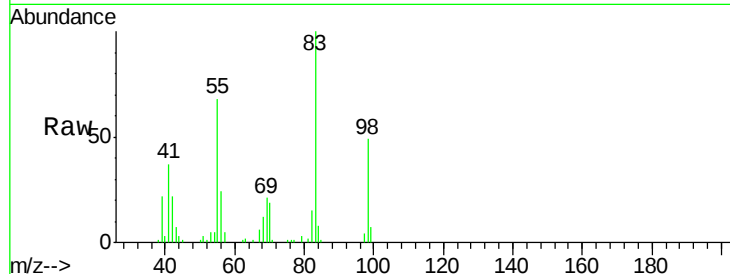
#39
Methvlcvclohexane
Concen: 5.241 ug/l
RT: 9.18 min Scan# 1221
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	67.9	49.1	73.7
98	49.5	40.0	60.0

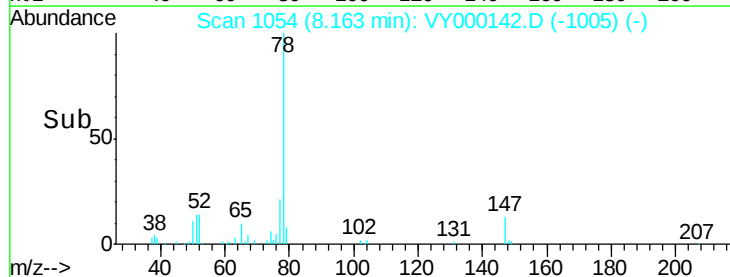
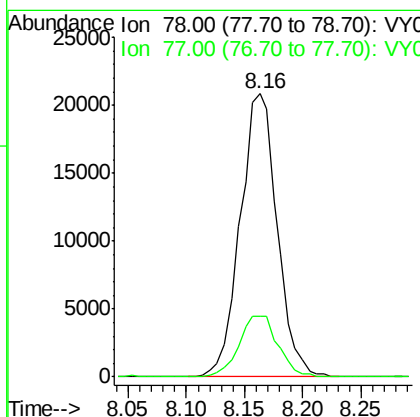
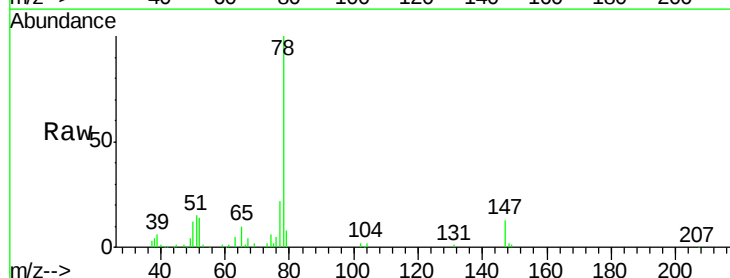
Manual Integrations
APPROVED

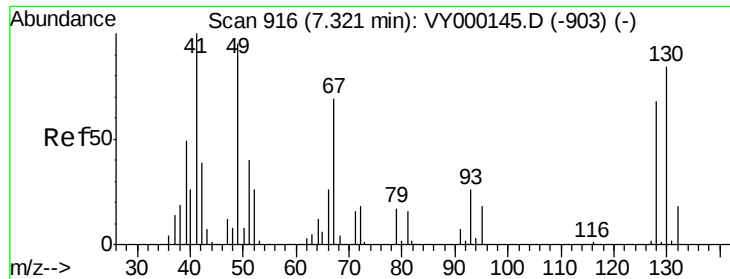
MMDadoda
10/2/2019 9:12:43 AM



#40
Benzene
Concen: 5.170 ug/l
RT: 8.16 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.2	27.4





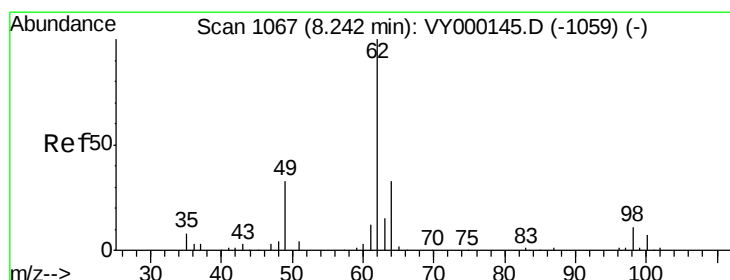
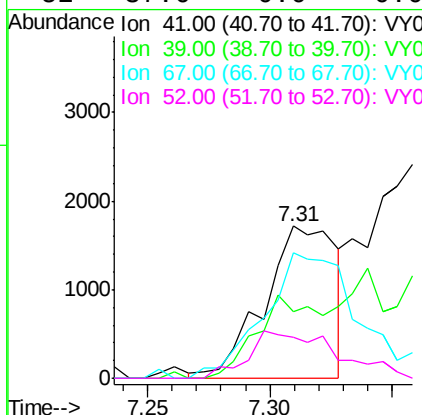
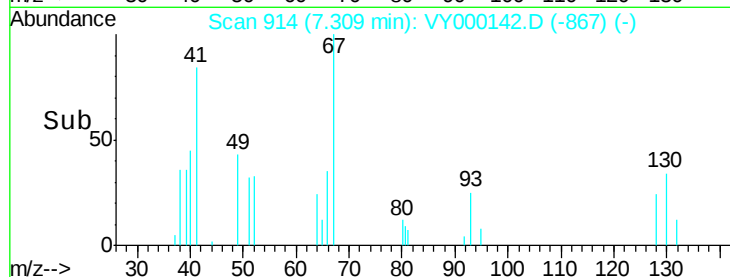
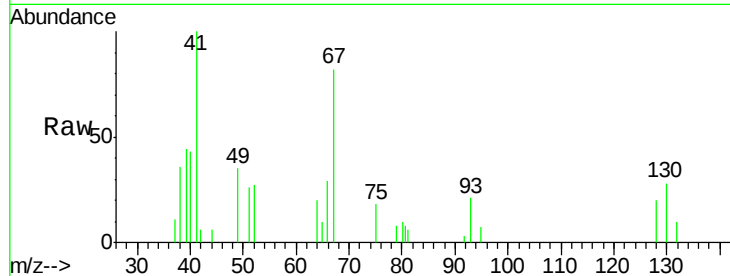
#41
Methacrylonitrile
Concen: 4.363 ug/l
RT: 7.31 min Scan# 914
Delta R.T. -0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	46.4	0.0	0.0#
67	106.1	0.0	0.0#
52	37.6	0.0	0.0#

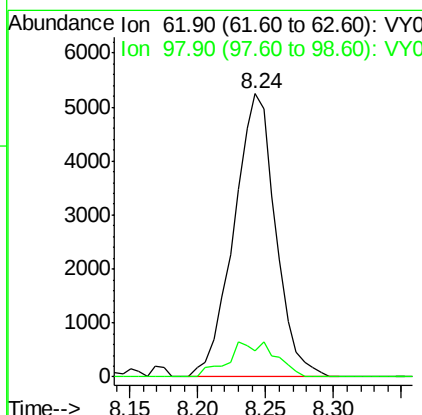
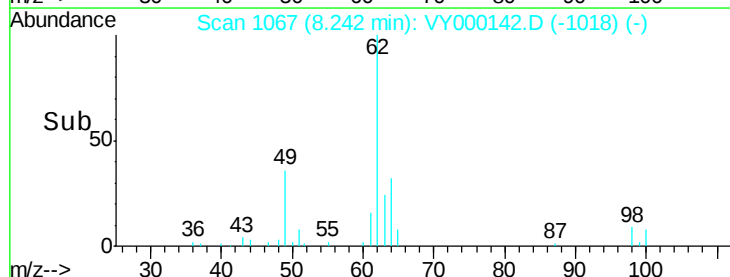
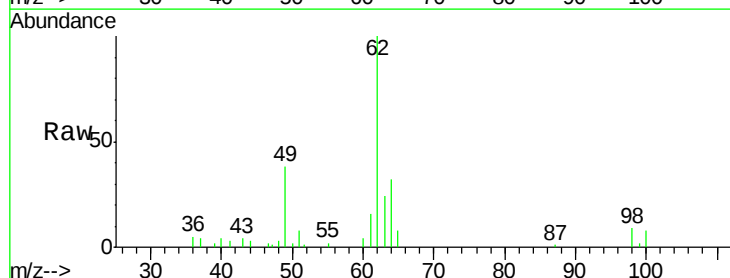
Manual Integrations
APPROVED

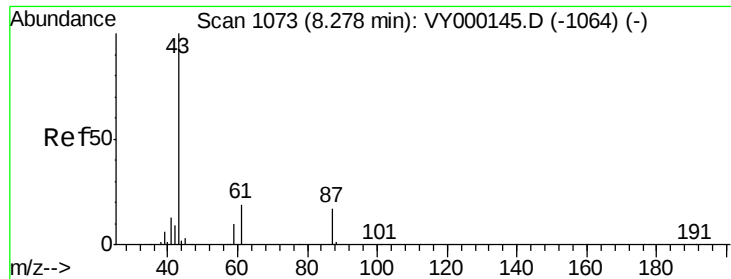
MMDadoda
10/2/2019 9:12:43 AM



#42
1,2-Dichloroethane
Concen: 5.180 ug/l
RT: 8.24 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
62	100		
98	14.0	0.0	24.8





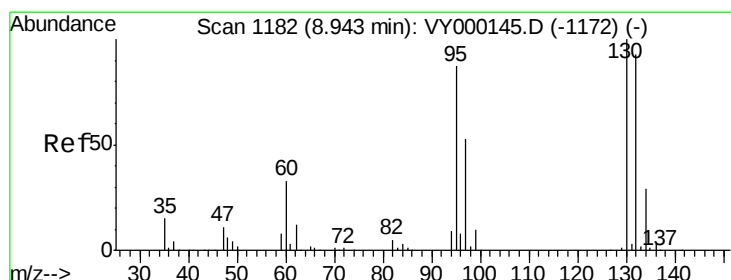
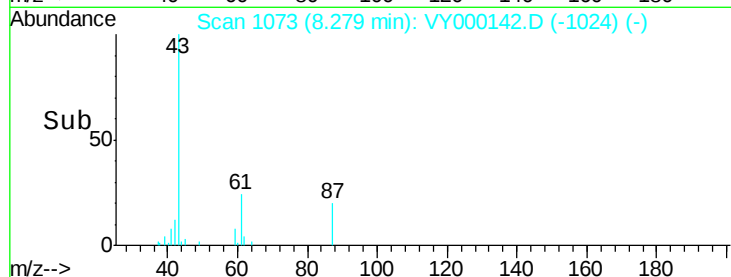
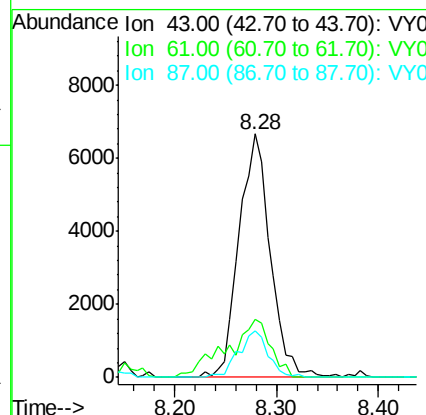
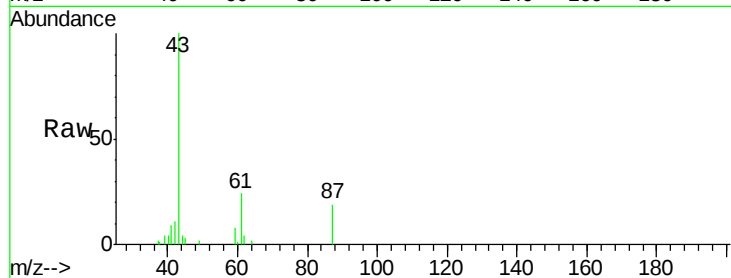
#43
Isopropyl Acetate
Concen: 5.131 ug/l
RT: 8.28 min Scan# 1073
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	33.2	25.6	38.4
87	18.2	13.5	20.3

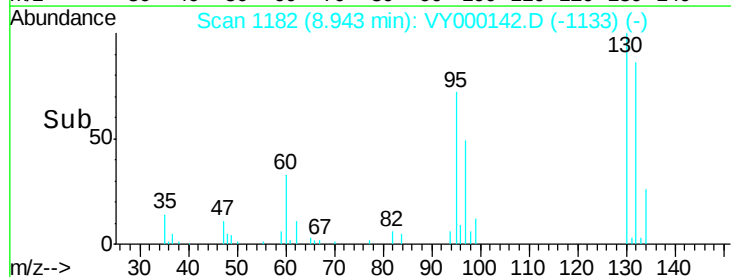
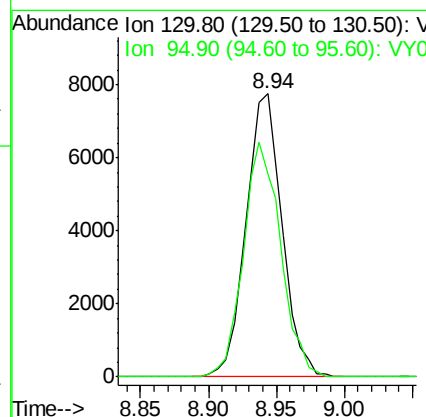
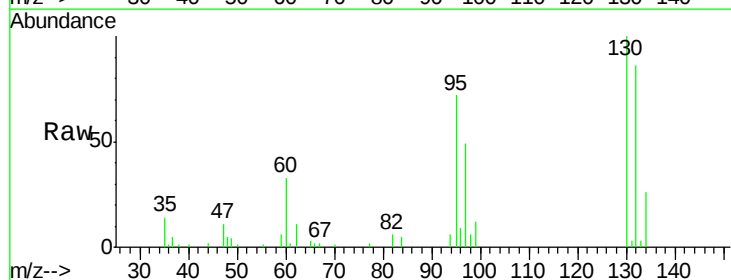
Manual Integrations
APPROVED

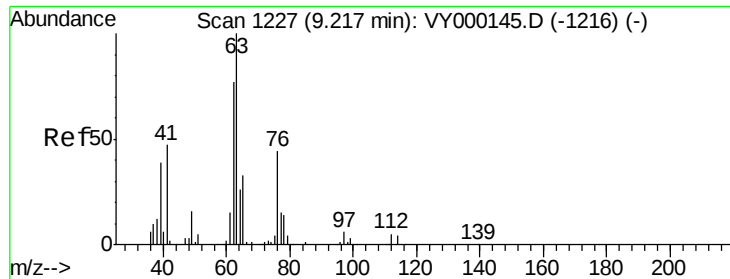
MMDadoda
10/2/2019 9:12:43 AM



#44
Trichloroethene
Concen: 5.042 ug/l
RT: 8.94 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
130	100		
95	71.5	0.0	174.8





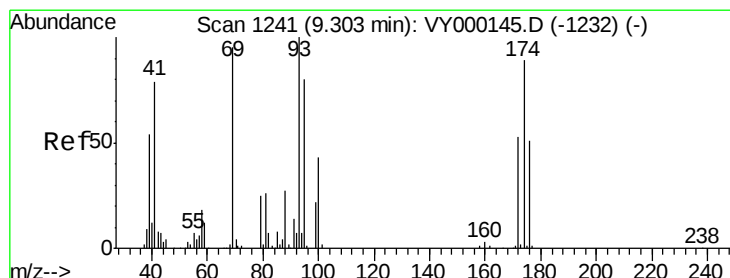
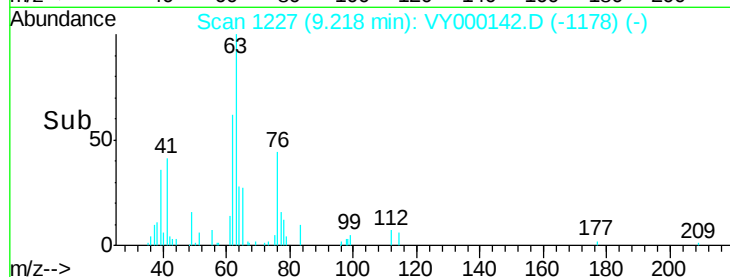
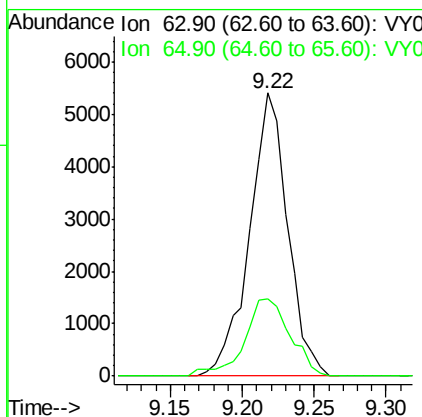
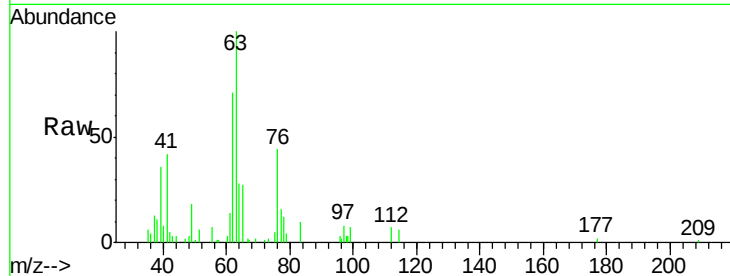
#45
 1,2-Dichloropropane
 Concen: 5.029 ug/l
 RT: 9.22 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
63	100		
65	27.3	26.8	40.2

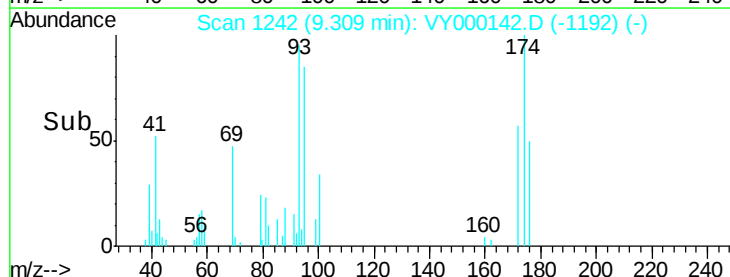
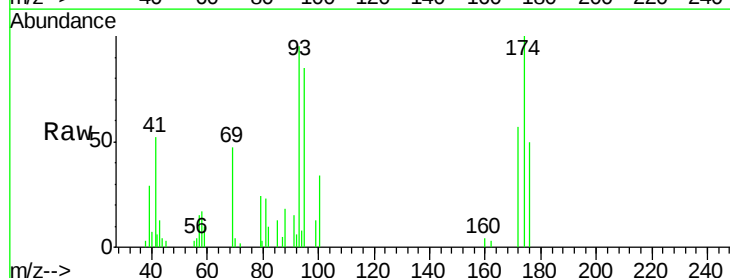
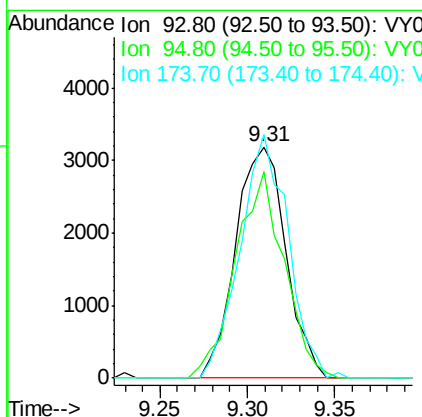
Manual Integrations
 APPROVED

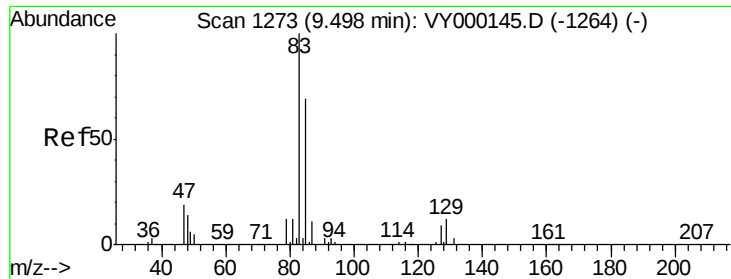
MMDadoda
 10/2/2019 9:12:43 AM



#46
 Dibromomethane
 Concen: 5.311 ug/l
 RT: 9.31 min Scan# 1242
 Delta R.T. 0.01 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
93	100		
95	86.2	66.3	99.5
174	100.2	87.3	130.9





#47

Bromodichloromethane

Concen: 4.943 ug/l

RT: 9.50 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

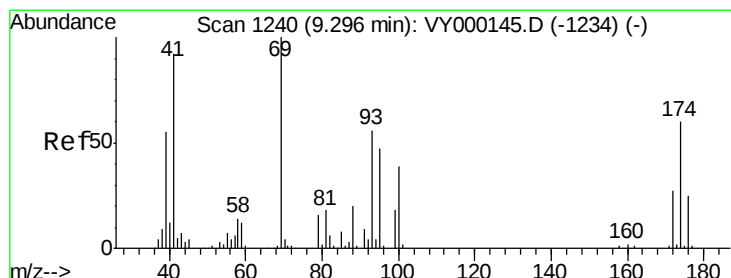
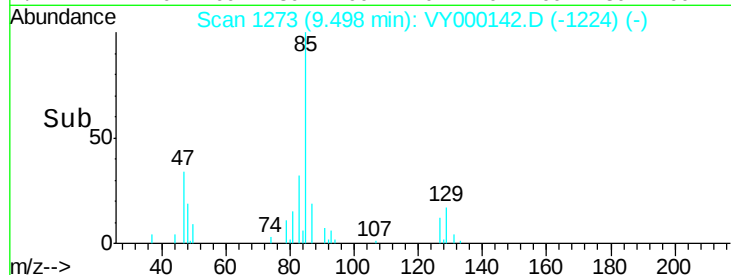
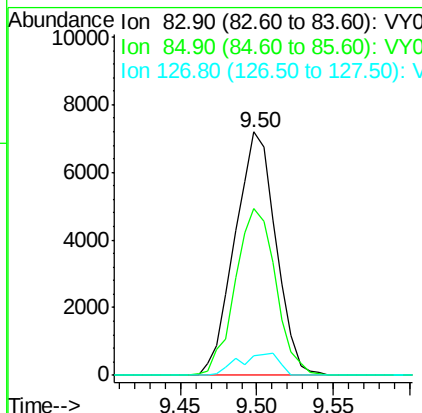
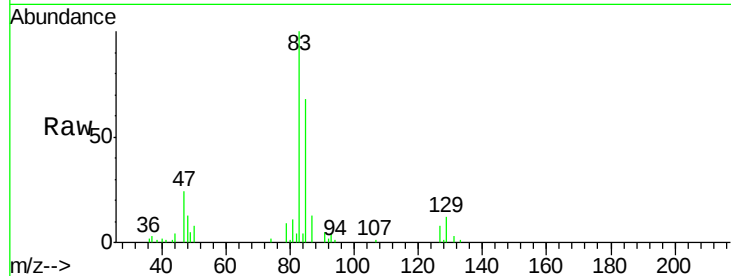
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	13386
Ion	Ratio	Lower	Upper
83	100		
85	68.4	55.1	82.7
127	8.1	6.9	10.3

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#48

Methyl methacrylate

Concen: 5.356 ug/l

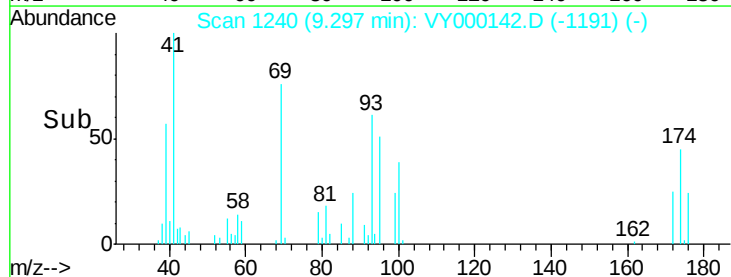
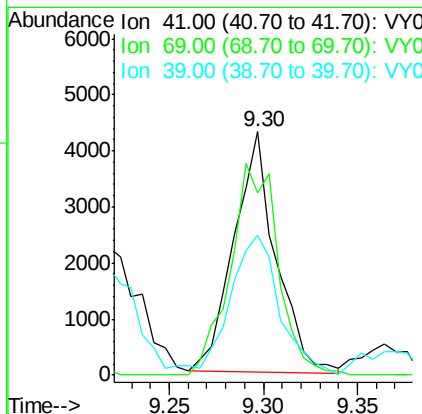
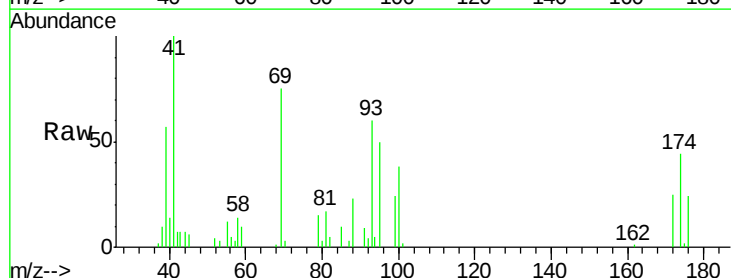
RT: 9.30 min Scan# 1240

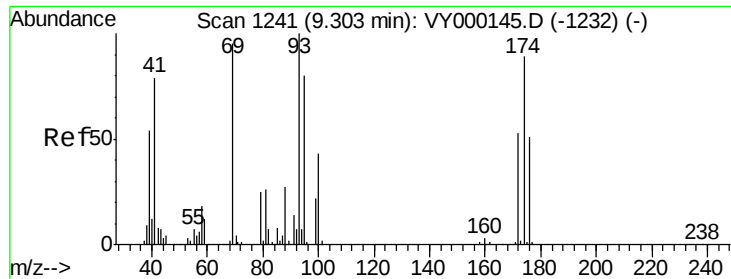
Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Tgt Ion:	41	Resp:	6612
Ion	Ratio	Lower	Upper
41	100		
69	100.2	86.5	129.7
39	68.2	51.0	76.6





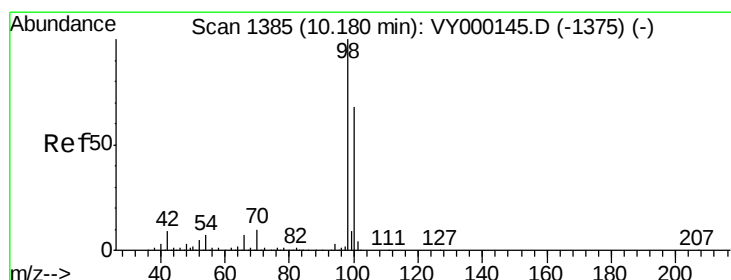
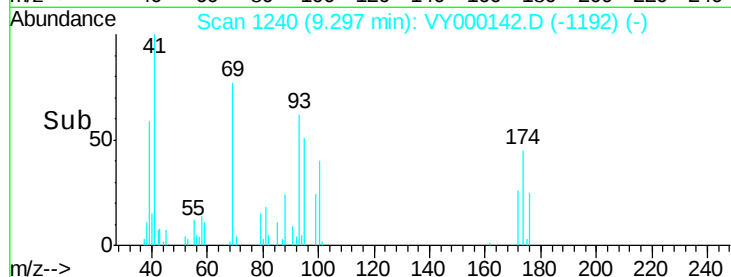
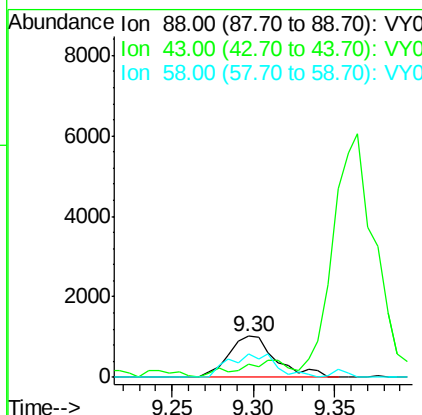
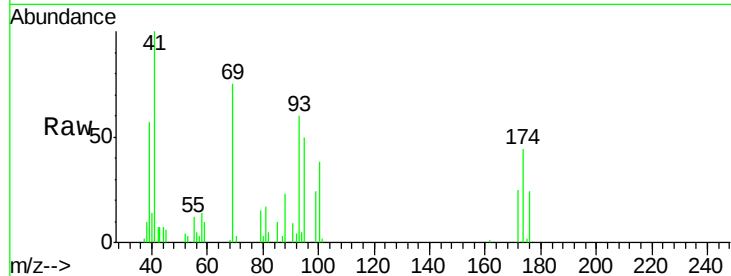
#49
 1,4-Dioxane
 Concen: 109.855 ug/l
 RT: 9.30 min Scan# 1240
 Delta R.T. -0.01 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Tot Ion	88	Resp	2039
Ion	Ratio	Lower	Upper
88	100		
43	45.0	24.4	36.6#
58	58.6	49.2	73.8

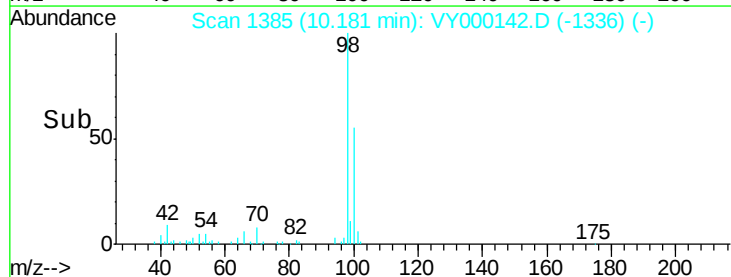
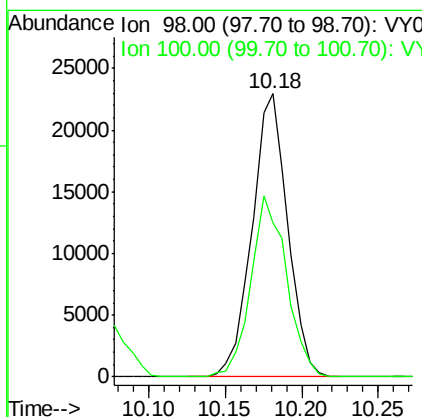
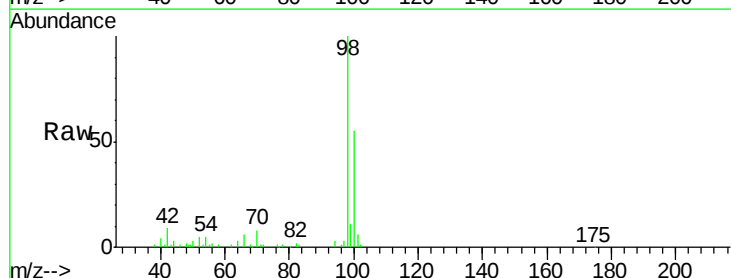
Manual Integrations
 APPROVED

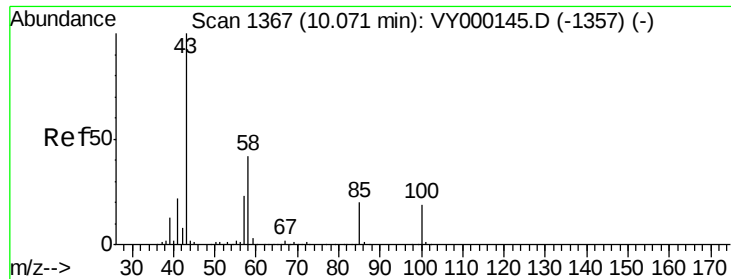
MMDadoda
 10/2/2019 9:12:43 AM



#50
 Toluene-d8
 Concen: 4.930 ug/l
 RT: 10.18 min Scan# 1385
 Delta R.T. 0.00 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Tgt Ion	98	Resp	37136
Ion	Ratio	Lower	Upper
98	100		
100	64.5	54.2	81.2





#51

4-Methyl-2-Pentanone

Concen: 25.285 ug/l

RT: 10.07 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 36178

Ion Ratio Lower Upper

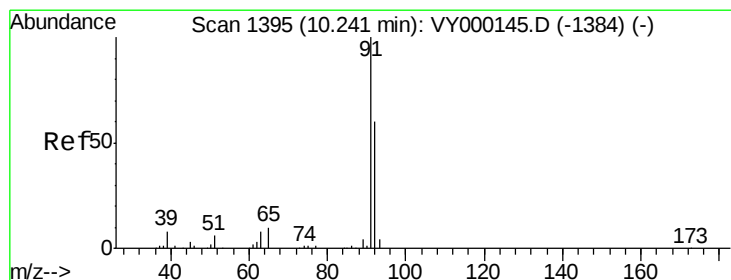
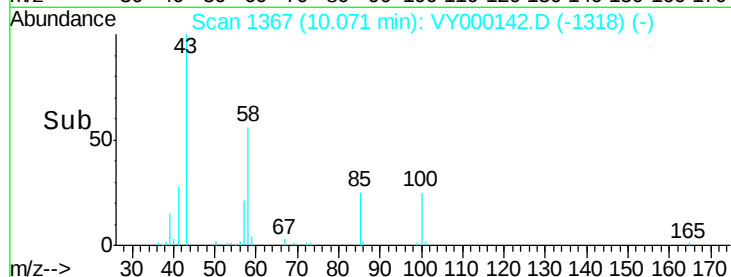
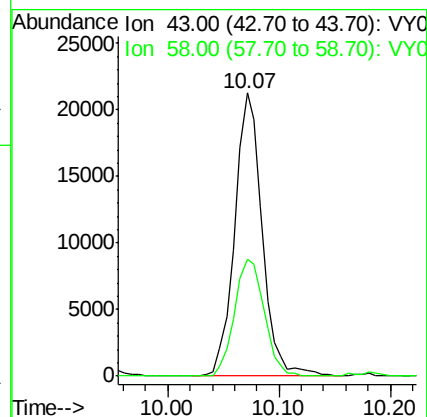
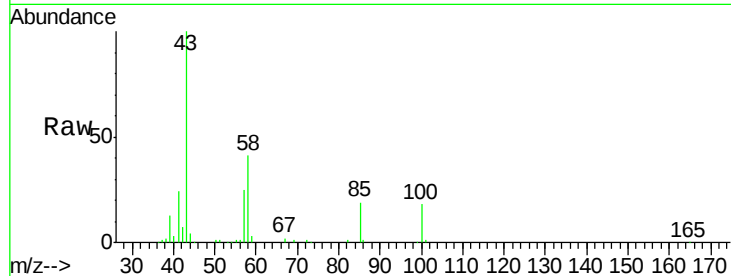
43 100

58 44.7 33.6 50.4

Manual Integrations
APPROVED

MMDadoda

10/2/2019 9:12:43 AM



#52

Toluene

Concen: 5.290 ug/l

RT: 10.24 min Scan# 1395

Delta R.T. 0.00 min

Lab File: VY000142.D

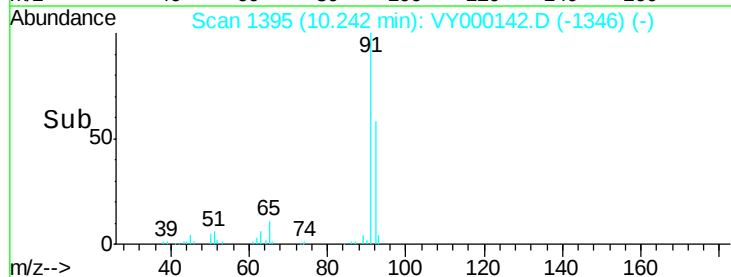
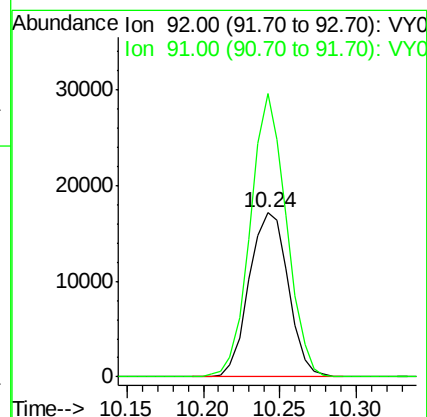
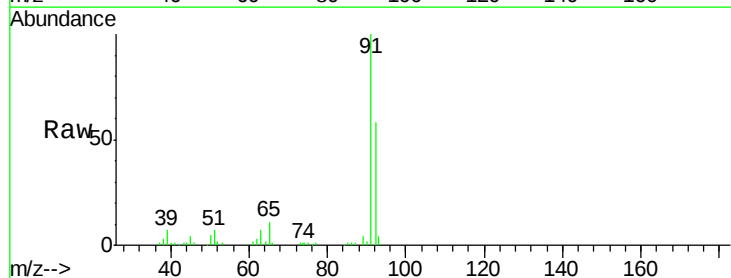
Acq: 26 Sep 2019 10:27

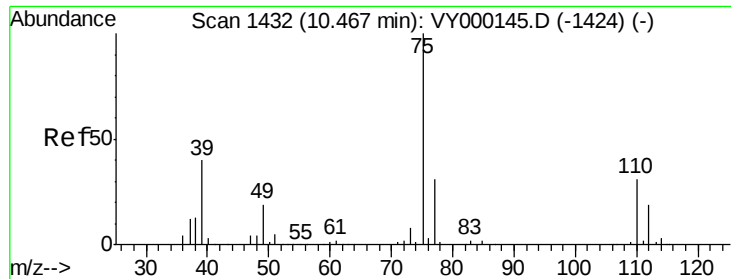
Tgt Ion: 92 Resp: 30570

Ion Ratio Lower Upper

92 100

91 158.2 134.6 201.8





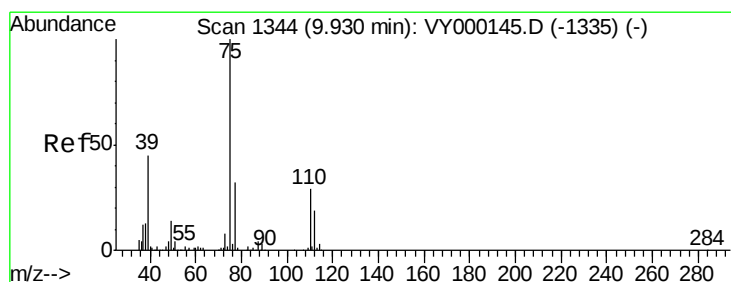
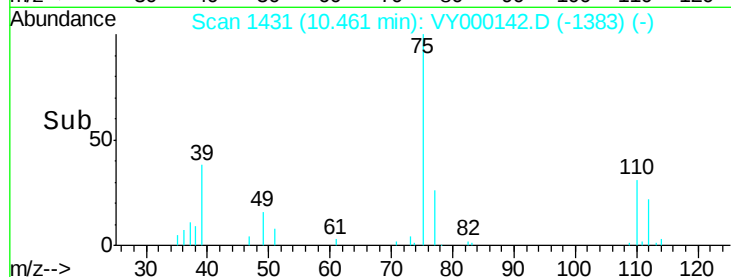
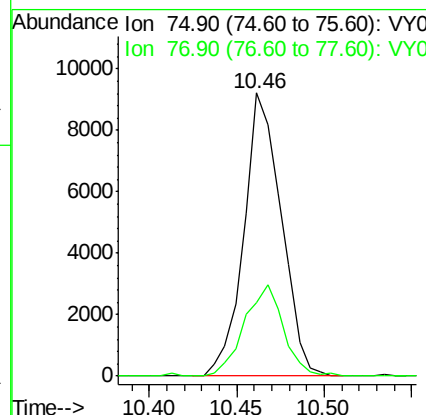
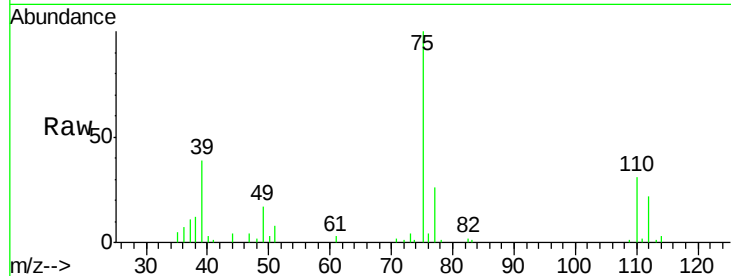
#53
t-1,3-Dichloropropene
Concen: 4.824 ug/l
RT: 10.46 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 13721
Ion Ratio Lower Upper
75 100
77 26.0 25.0 37.4

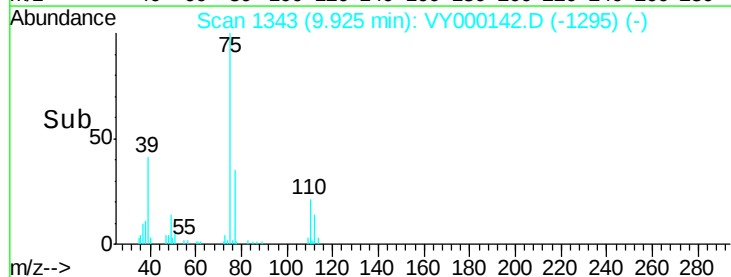
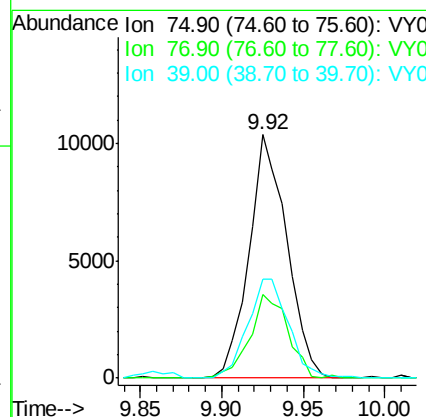
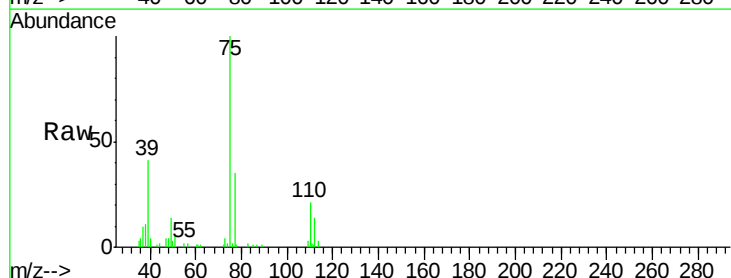
Manual Integrations
APPROVED

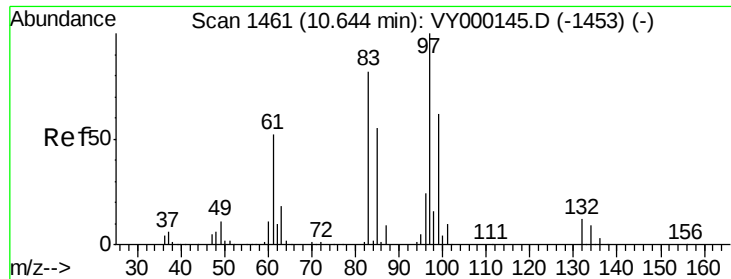
MMDadoda
10/2/2019 9:12:43 AM



#54
cis-1,3-Dichloropropene
Concen: 4.972 ug/l
RT: 9.92 min Scan# 1343
Delta R.T. -0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion: 75 Resp: 16760
Ion Ratio Lower Upper
75 100
77 34.6 25.4 38.0
39 40.6 35.8 53.6





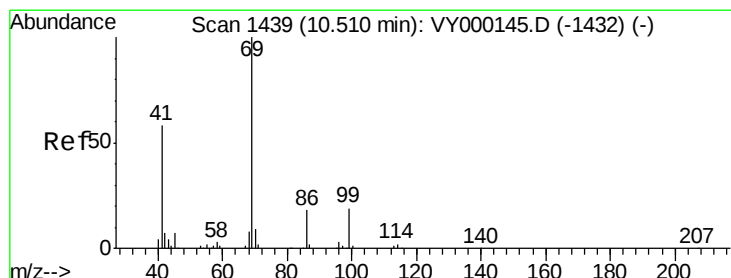
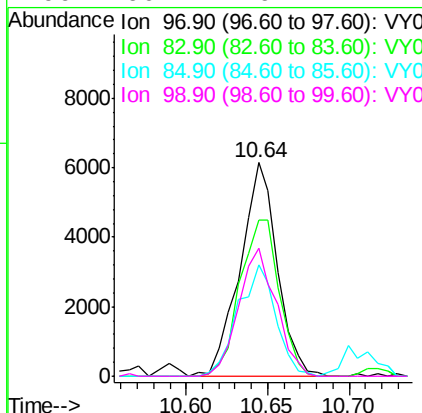
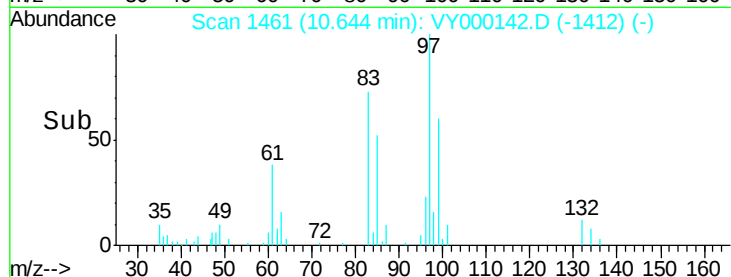
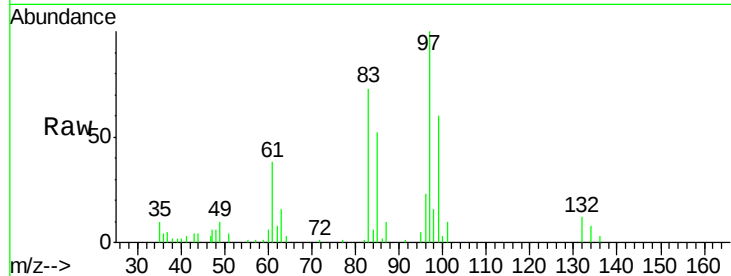
#55
 1,1,2-Trichloroethane
 Concen: 5.479 ug/l
 RT: 10.64 min Scan# 1461
 Delta R.T. 0.00 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	9787
Ion	Ratio	Lower	Upper
97	100		
83	73.1	65.7	98.5
85	52.3	44.1	66.1
99	60.1	49.4	74.2

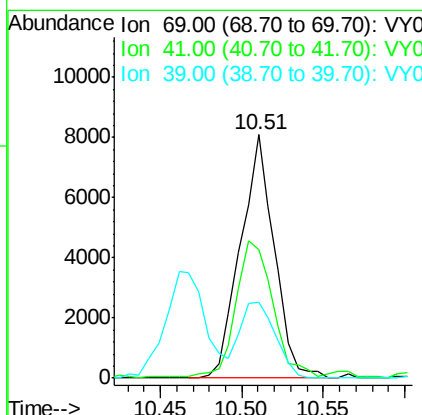
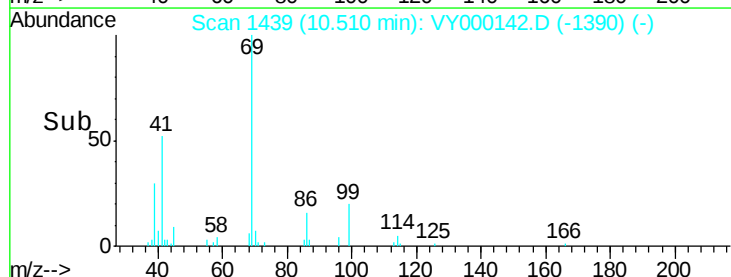
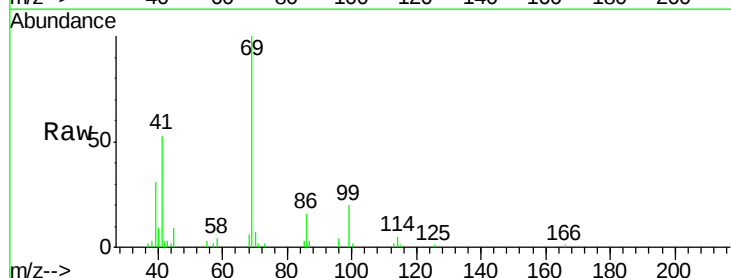
Manual Integrations
 APPROVED

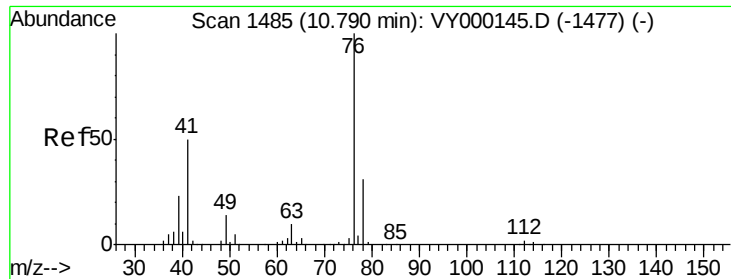
MMDadoda
 10/2/2019 9:12:43 AM



#56
 Ethyl methacrylate
 Concen: 5.036 ug/l
 RT: 10.51 min Scan# 1439
 Delta R.T. 0.00 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Tgt Ion:	69	Resp:	11703
Ion	Ratio	Lower	Upper
69	100		
41	63.1	45.8	68.8
39	32.4	27.8	41.8





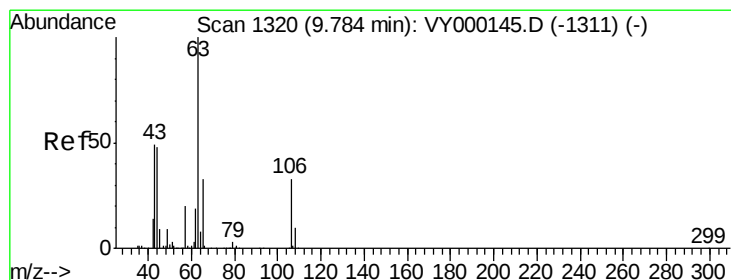
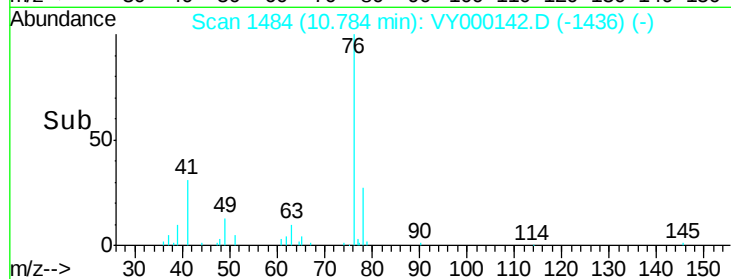
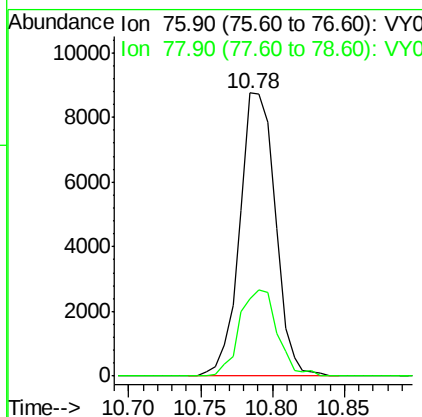
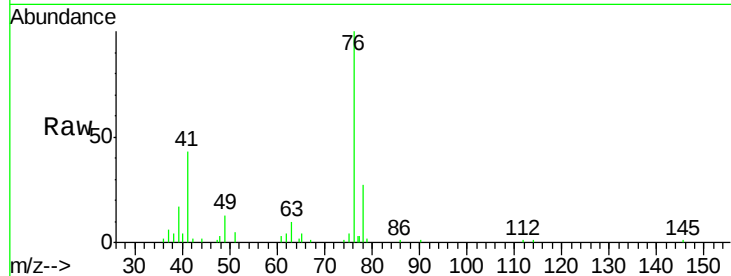
#57
 1,3-Dichloropropane
 Concen: 5.229 ug/l
 RT: 10.78 min Scan# 1484
 Delta R.T. -0.01 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.4	38.0

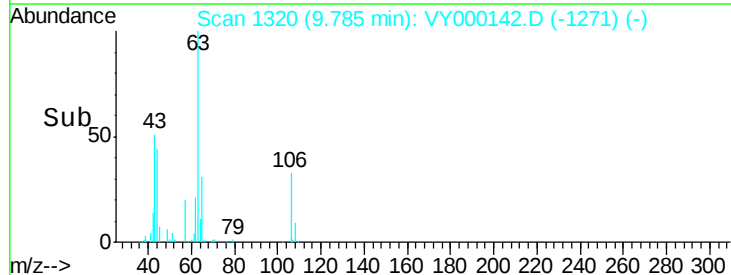
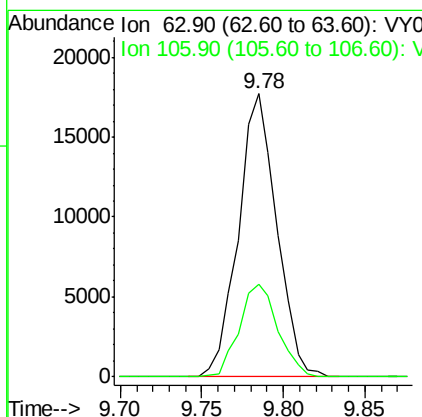
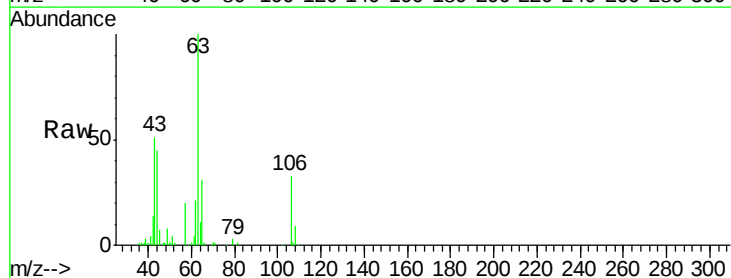
Manual Integrations
 APPROVED

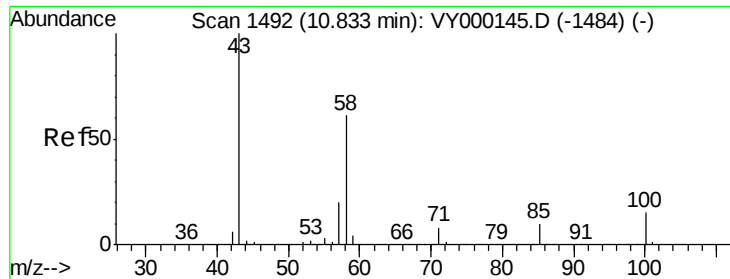
MMDadoda
 10/2/2019 9:12:43 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 26.559 ug/l
 RT: 9.78 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
63	100		
106	33.0	27.0	40.6





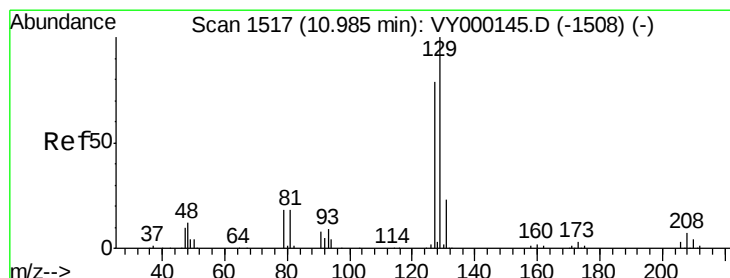
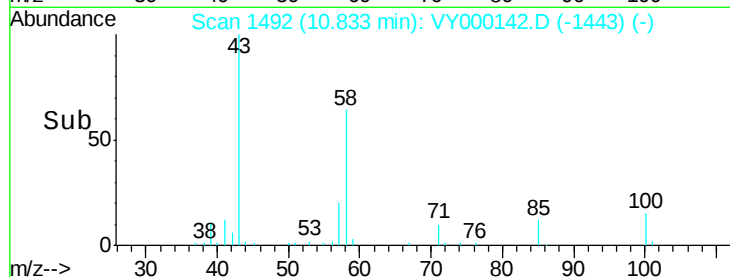
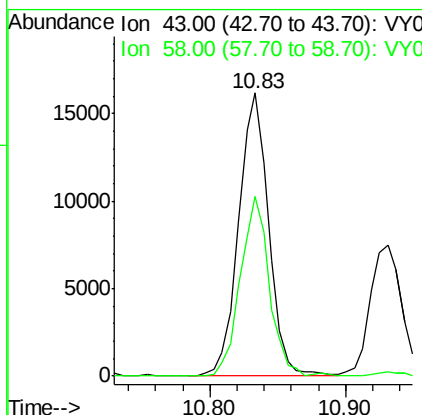
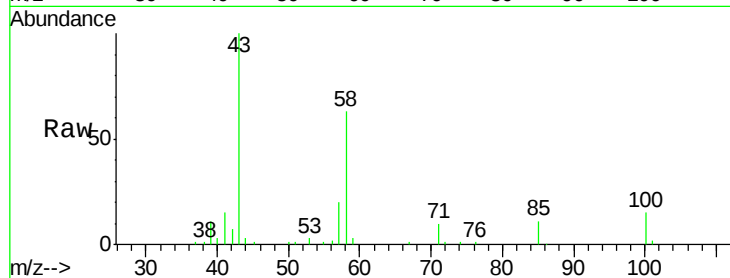
#59
2-Hexanone
Concen: 24.438 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	61.0	29.5	88.5

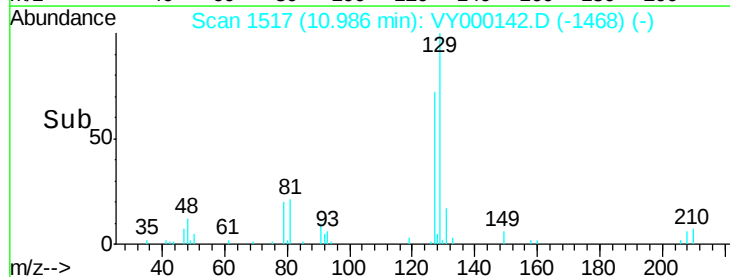
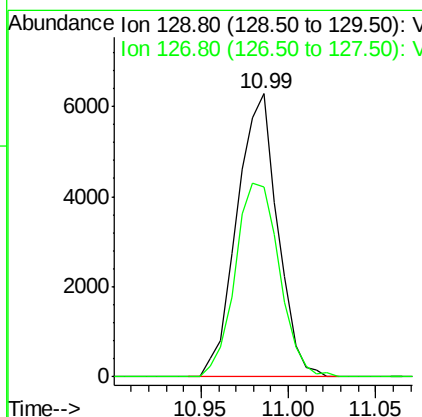
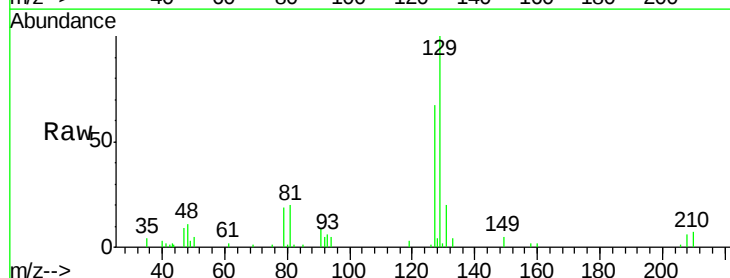
Manual Integrations
APPROVED

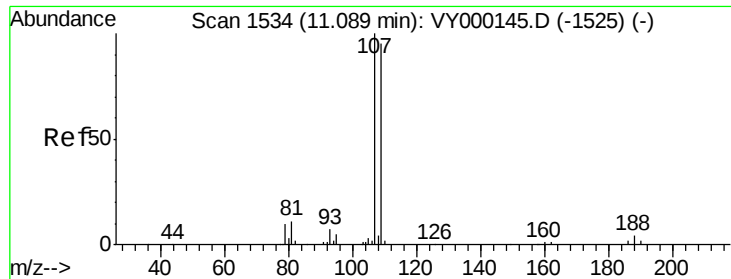
MMDadoda
10/2/2019 9:12:43 AM



#60
Dibromochloromethane
Concen: 5.030 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.5	39.4	118.1





#61

1,2-Dibromoethane

Concen: 4.999 ug/l

RT: 11.08 min Scan# 1533

Delta R.T. -0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 8522

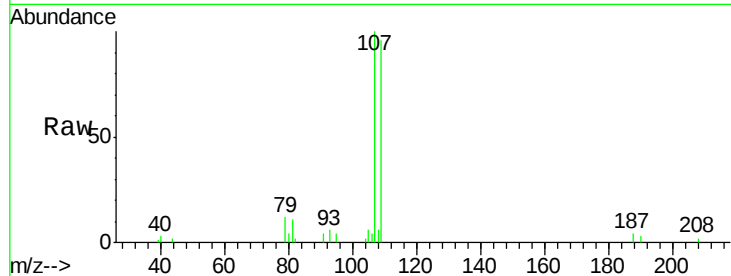
Ion Ratio Lower Upper

107 100

109 94.5 75.8 113.8

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.08

5000

4000

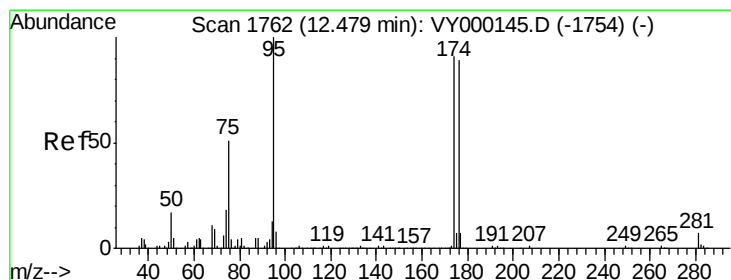
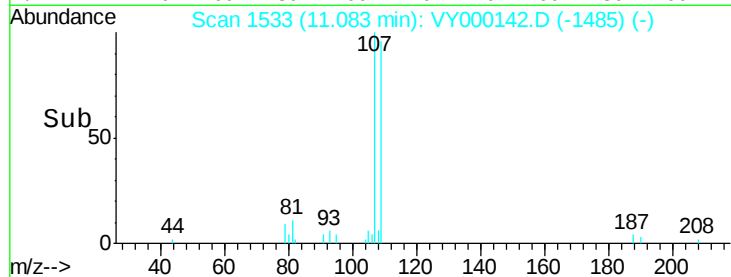
3000

2000

1000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 4.975 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. -0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

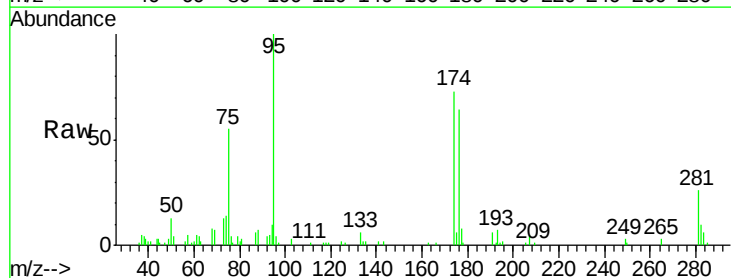
Tgt Ion: 95 Resp: 13660

Ion Ratio Lower Upper

95 100

174 81.8 0.0 180.6

176 81.8 0.0 171.6



Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.47

12000

10000

8000

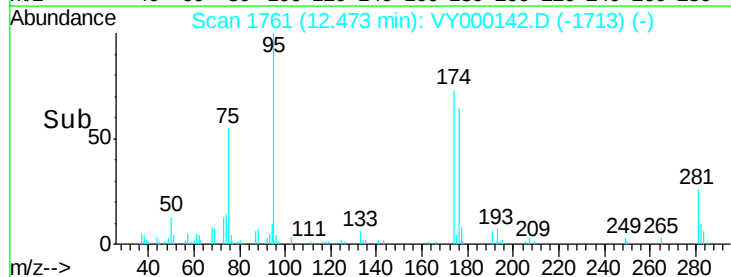
6000

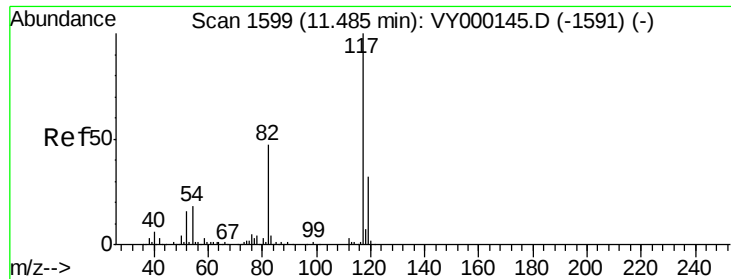
4000

2000

0

Time-->





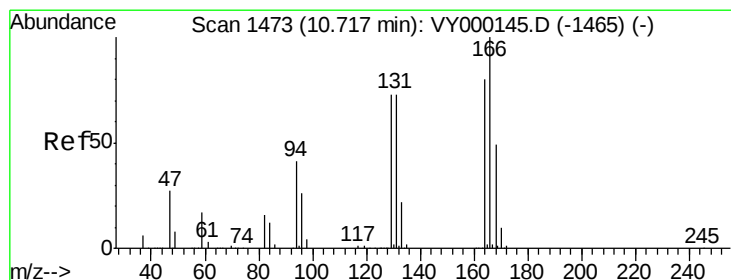
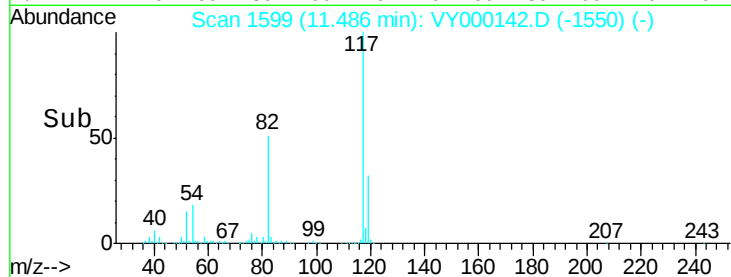
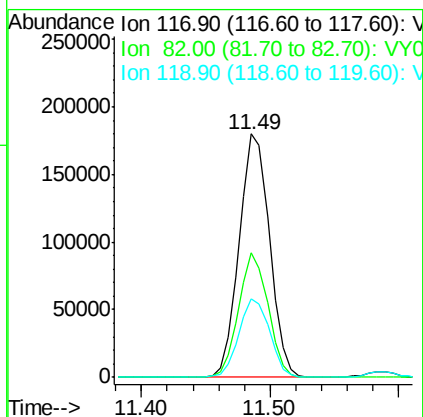
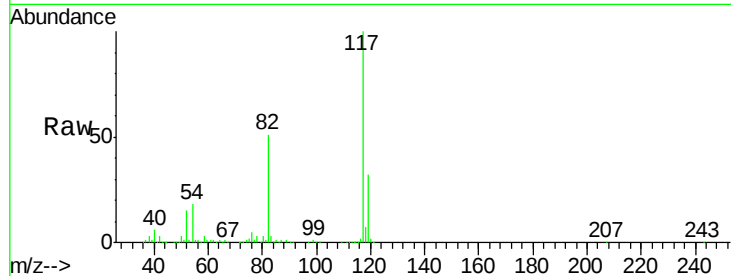
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
117	100	294275		
82	51.0		37.7	56.5
119	32.0		25.4	38.2

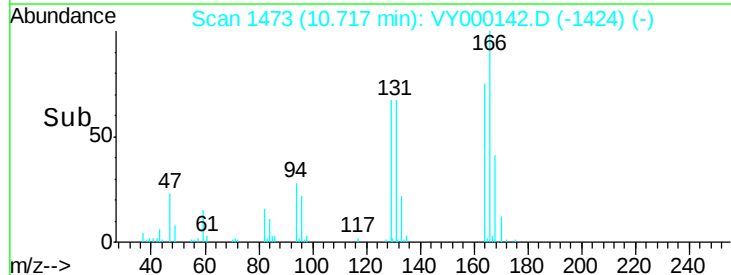
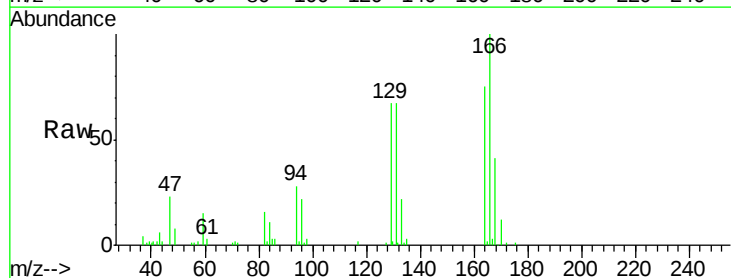
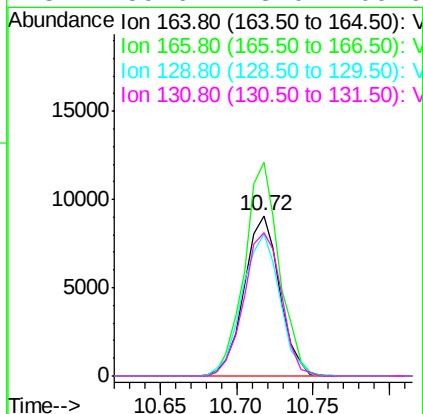
Manual Integrations
APPROVED

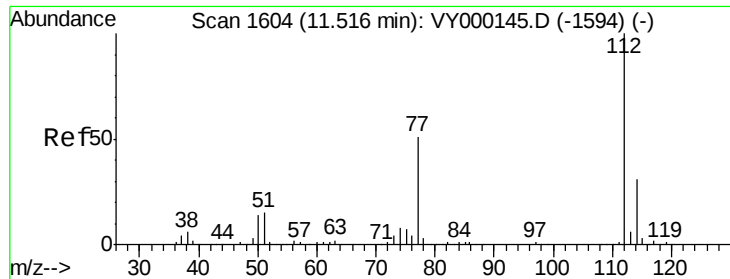
MMDadoda
10/2/2019 9:12:43 AM



#64
Tetrachloroethene
Concen: 5.029 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	14659		
166	133.1		99.5	149.3
129	88.7		72.8	109.2
131	89.6		73.0	109.6





#65

Chlorobenzene

Concen: 5.294 ug/l

RT: 11.52 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion:112 Resp: 32423

Ion Ratio Lower Upper

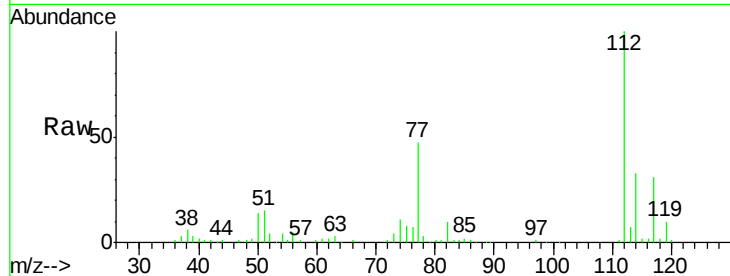
112 100

114 32.6 25.1 37.7

Manual Integrations
APPROVED

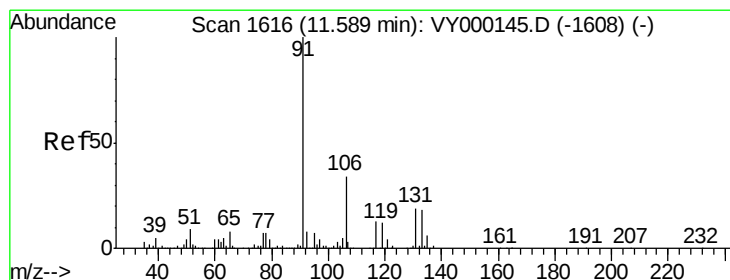
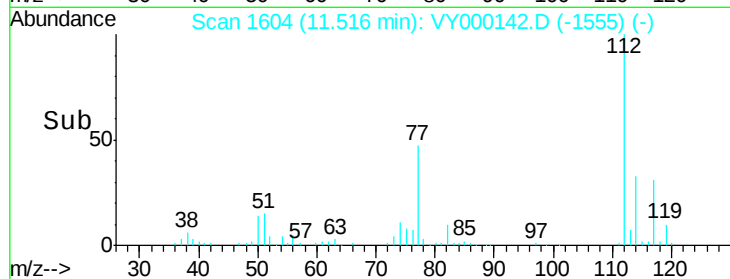
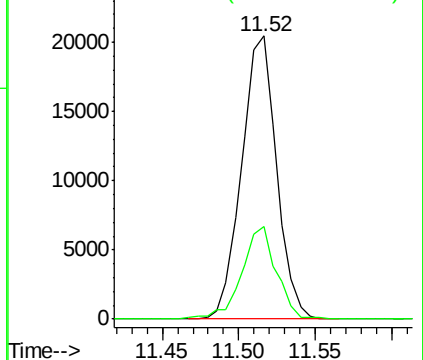
MMDadoda

10/2/2019 9:12:43 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 5.065 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

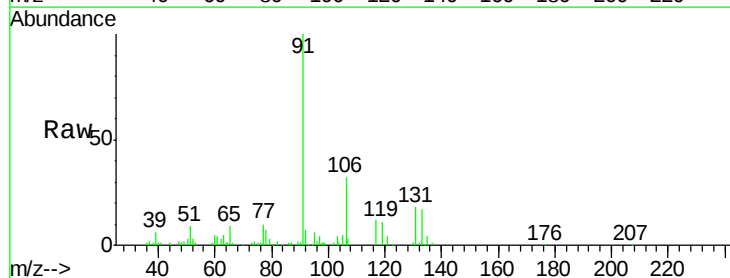
Tgt Ion:131 Resp: 10482

Ion Ratio Lower Upper

131 100

133 91.4 47.2 141.6

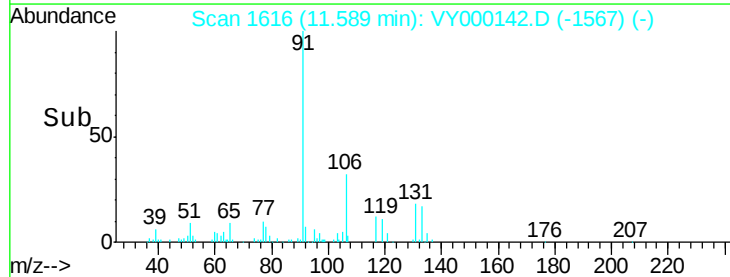
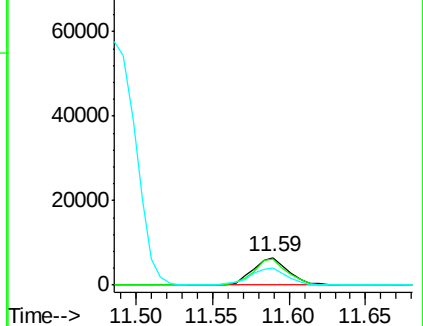
119 63.7 32.3 96.9

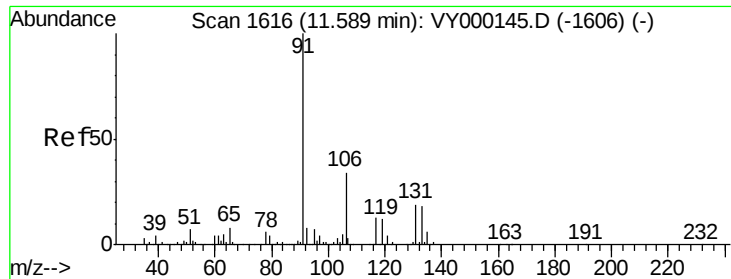


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 5.246 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 54915

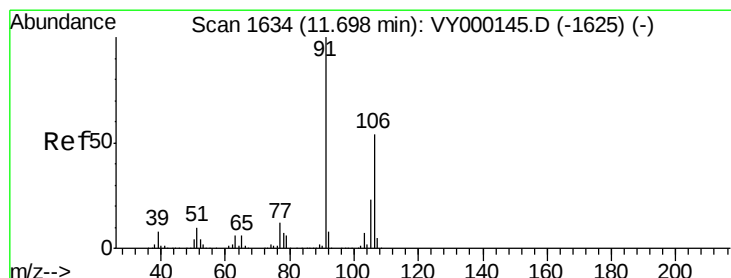
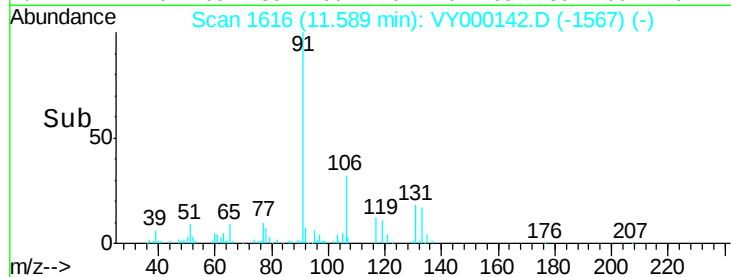
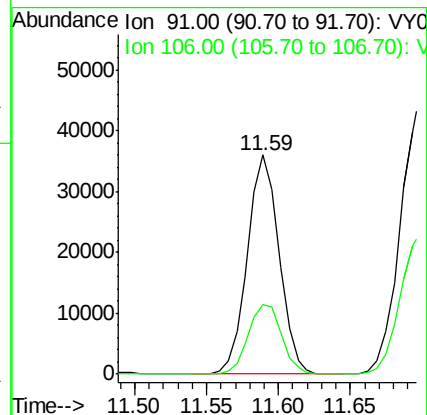
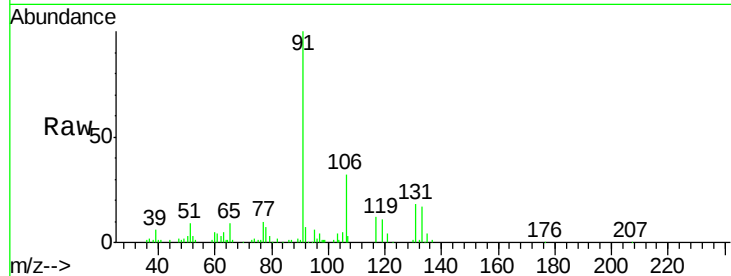
Ion Ratio Lower Upper

91 100

106 31.7 27.3 40.9

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#68

m/p-Xylenes

Concen: 10.430 ug/l

RT: 11.70 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VY000142.D

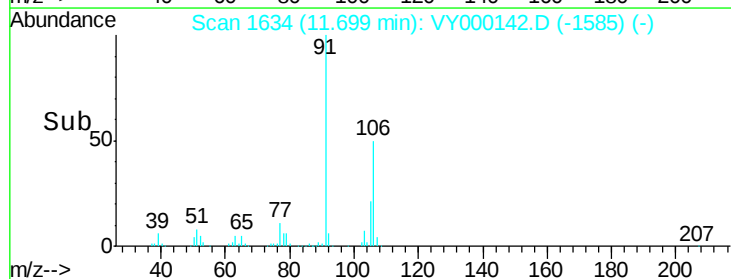
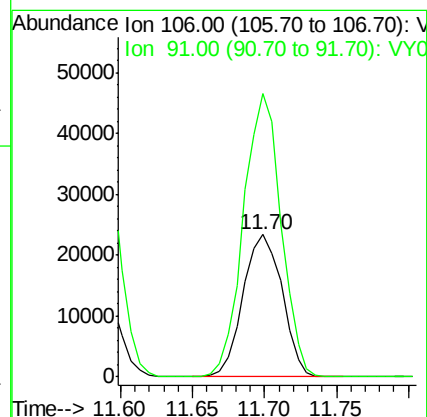
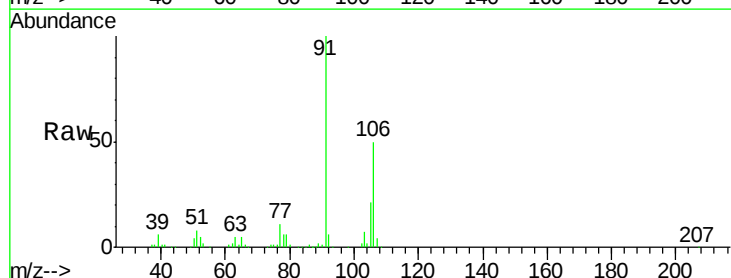
Acq: 26 Sep 2019 10:27

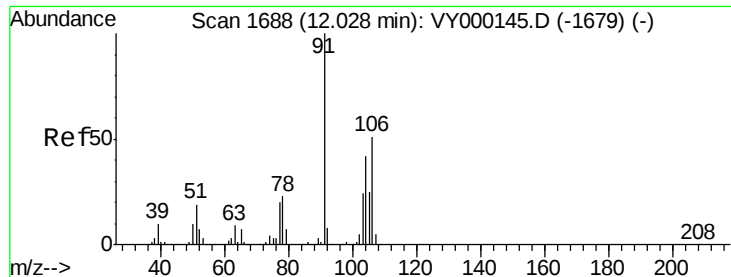
Tgt Ion: 106 Resp: 44140

Ion Ratio Lower Upper

106 100

91 190.4 148.6 223.0





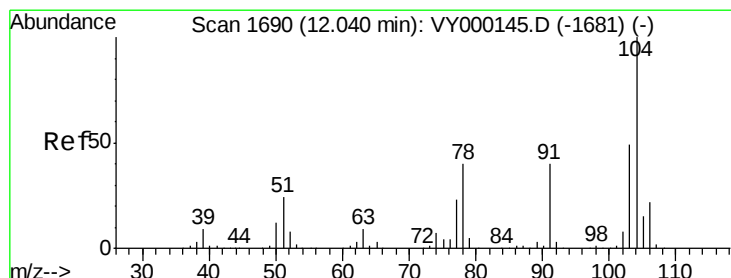
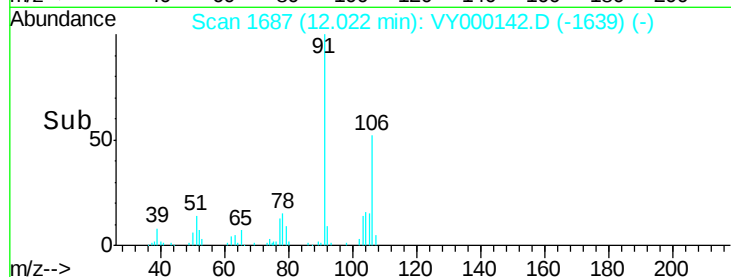
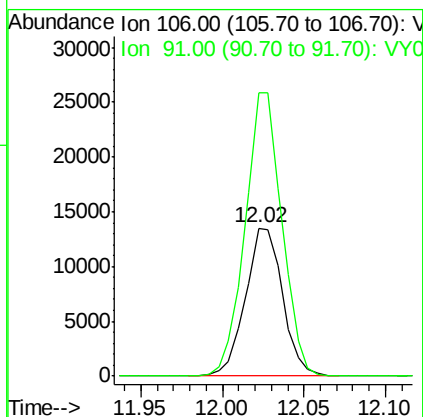
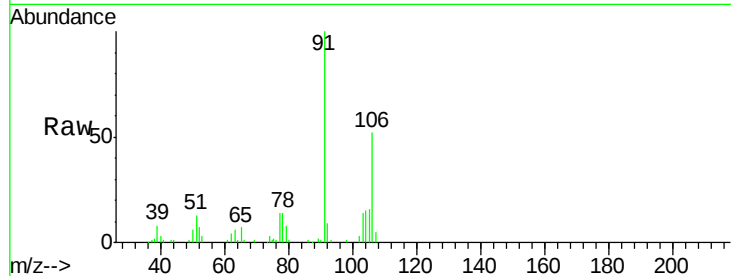
#69
o-Xylene
Concen: 5.302 ug/l
RT: 12.02 min Scan# 1687
Delta R.T. -0.01 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
106	100	21399		
91	190.1	98.0	293.9	

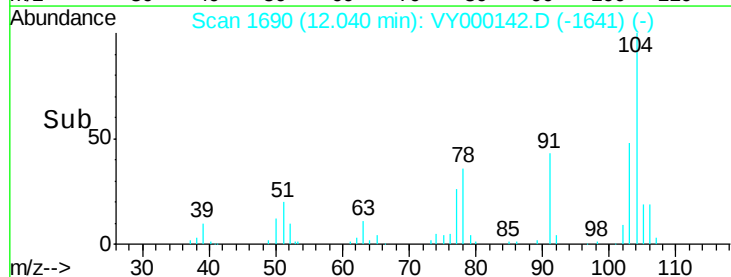
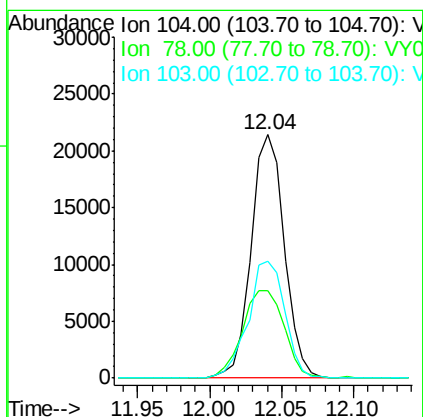
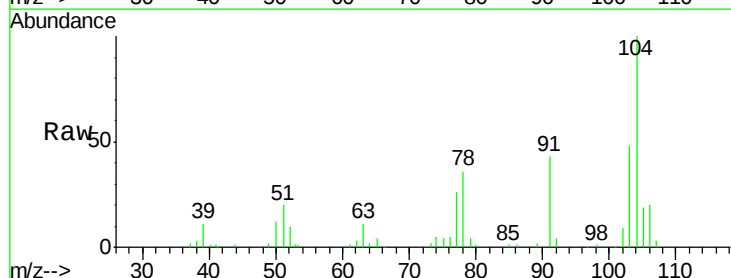
Manual Integrations
APPROVED

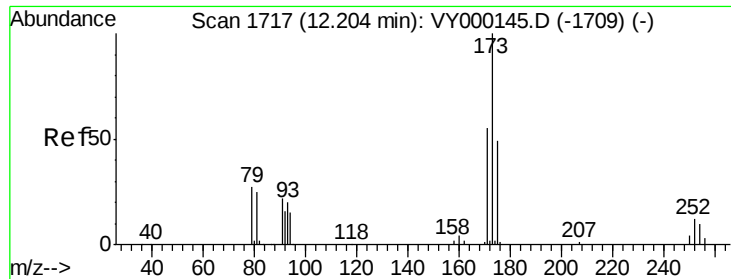
MMDadoda
10/2/2019 9:12:43 AM



#70
Styrene
Concen: 4.981 ug/l
RT: 12.04 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	34022		
78	45.2	34.7	52.1	
103	53.3	41.6	62.4	





#71

Bromoform

Concen: 4.720 ug/l

RT: 12.20 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

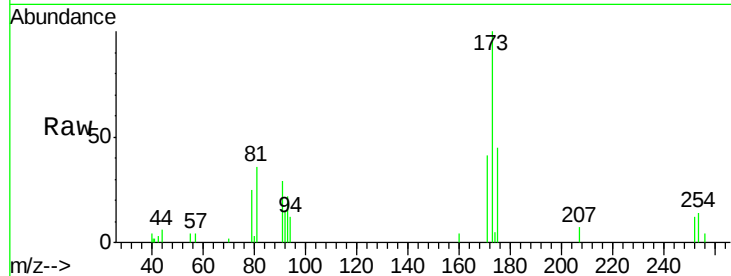
ClientSampleId :

VSTDIC005

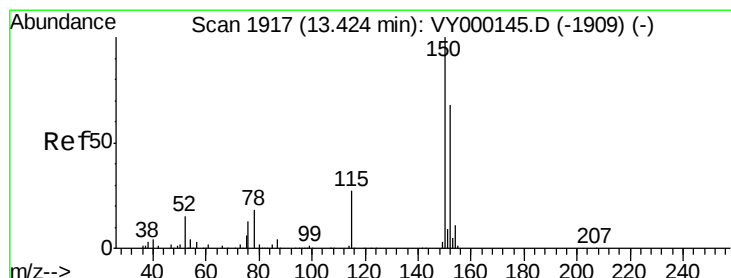
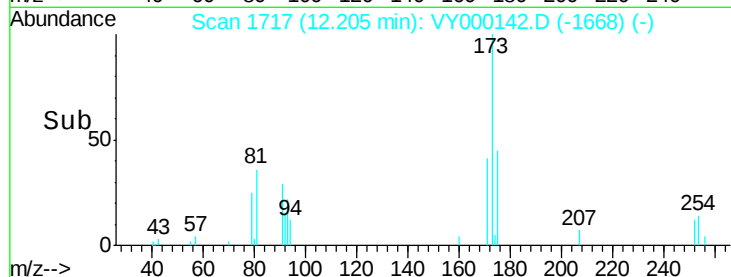
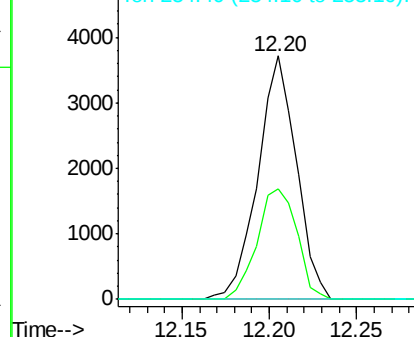
Tot Ion	Ratio	Lower	Upper
173	100		
175	46.9	23.5	70.6
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

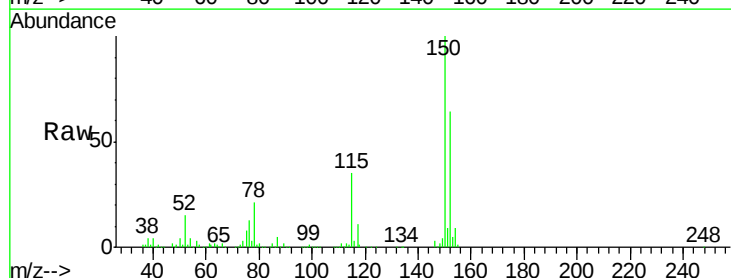
RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

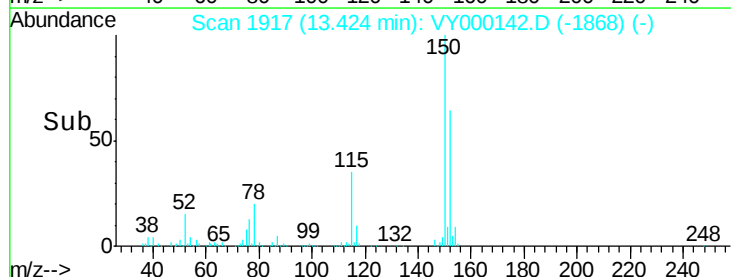
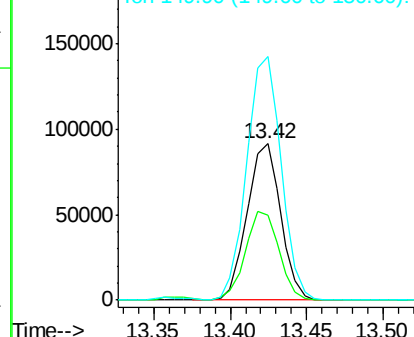
Lab File: VY000142.D

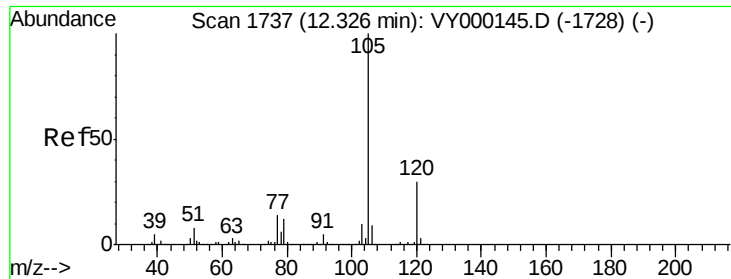
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.7	26.8	80.4
150	160.5	0.0	347.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.224 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 52532

Ion Ratio Lower Upper

105 100

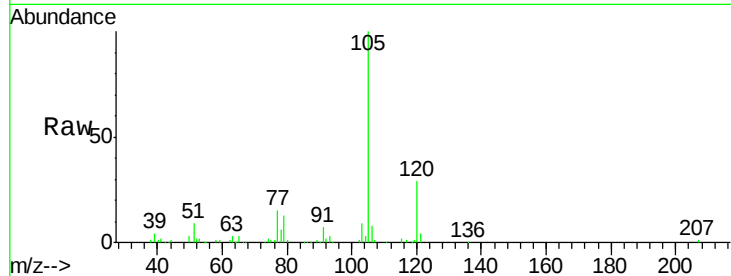
120 29.2 14.7 44.1

Manual Integrations

APPROVED

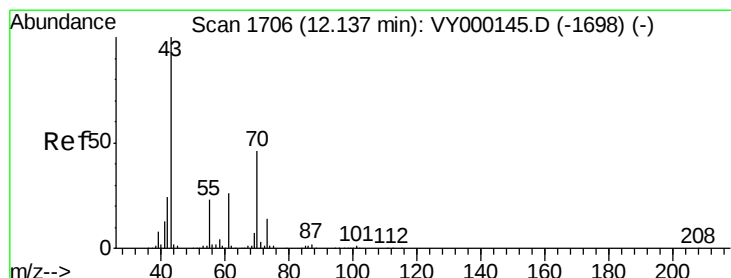
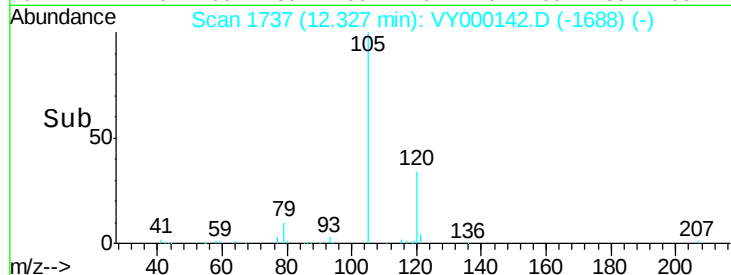
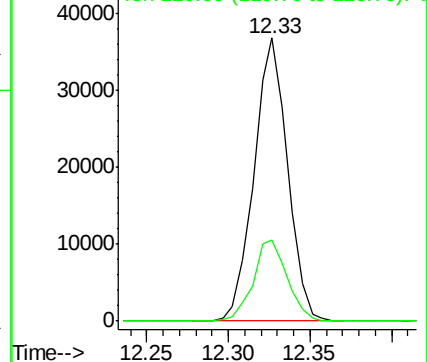
MMDadoda

10/2/2019 9:12:43 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 4.963 ug/l

RT: 12.14 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Tgt Ion: 43 Resp: 12081

Ion Ratio Lower Upper

43 100

70 46.8 37.3 55.9

55 23.4 18.6 27.8

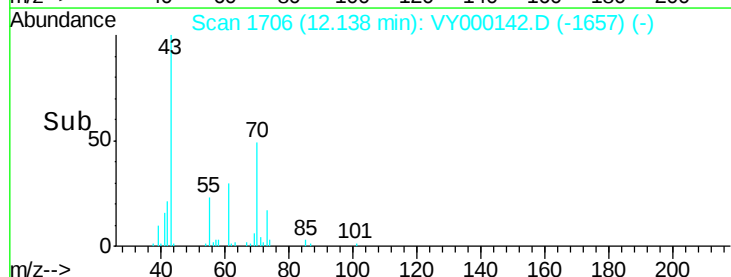
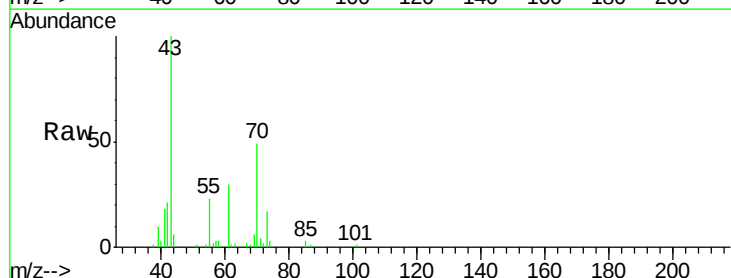
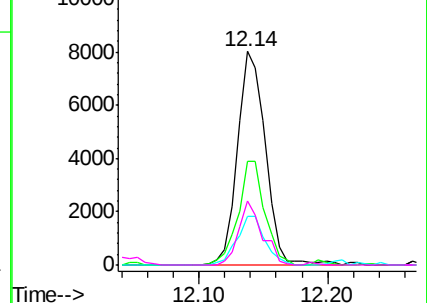
61 25.1 21.0 31.4

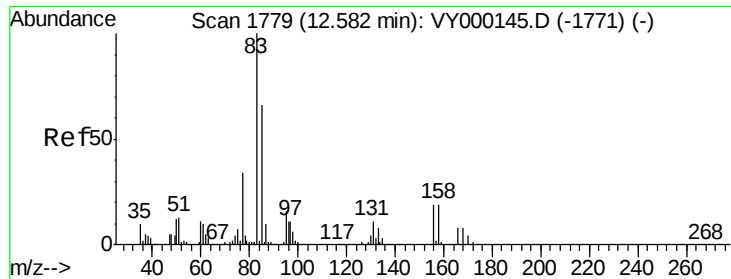
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#75

1,1,2,2-Tetrachloroethane

Concen: 6.154 ug/l

RT: 12.58 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

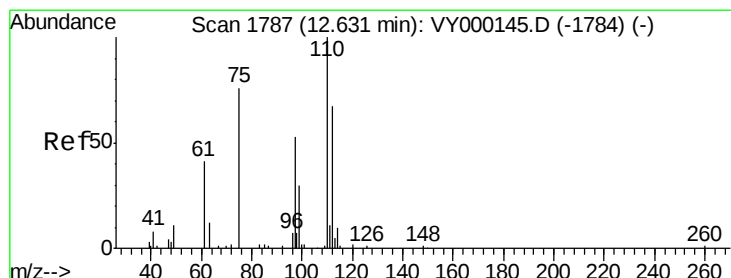
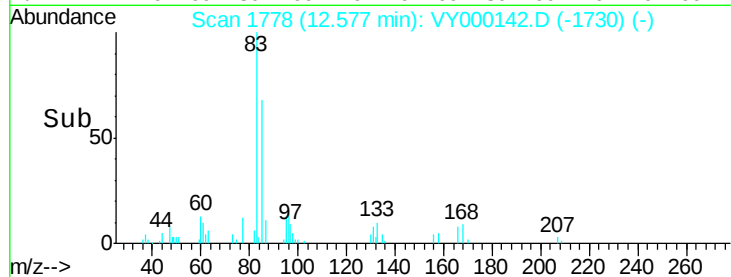
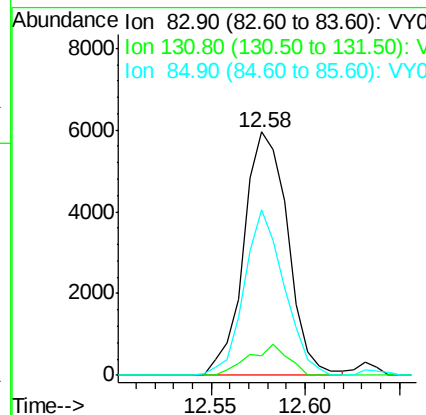
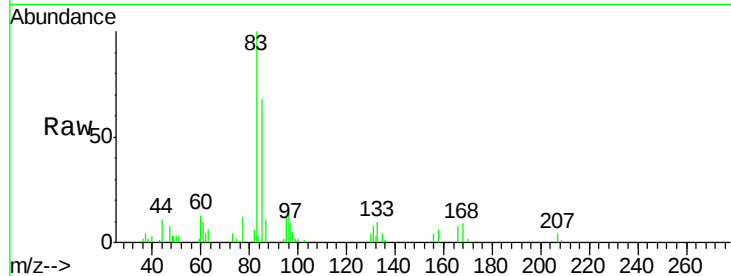
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	9633
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.4	16.2
85	61.7	32.5	97.5

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#76

1,2,3-Trichloropropane

Concen: 5.490 ug/l m

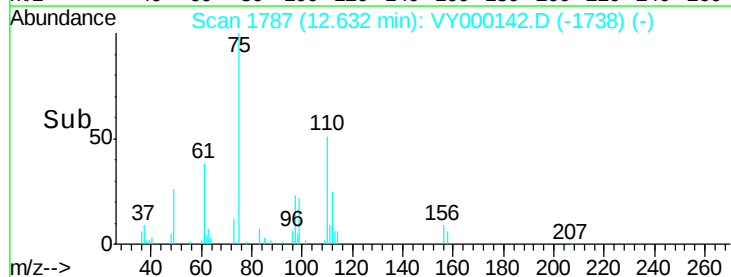
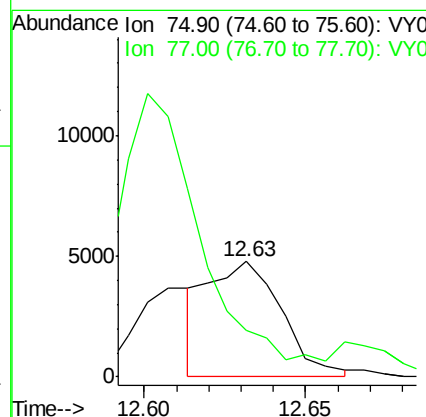
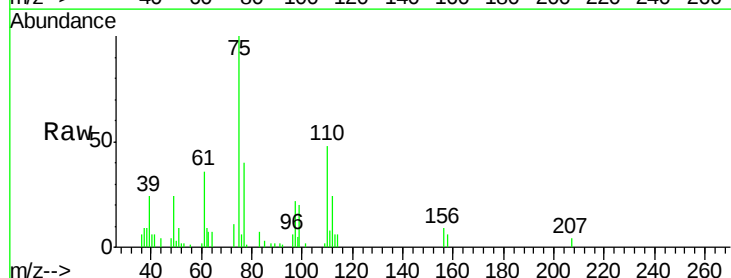
RT: 12.63 min Scan# 1787

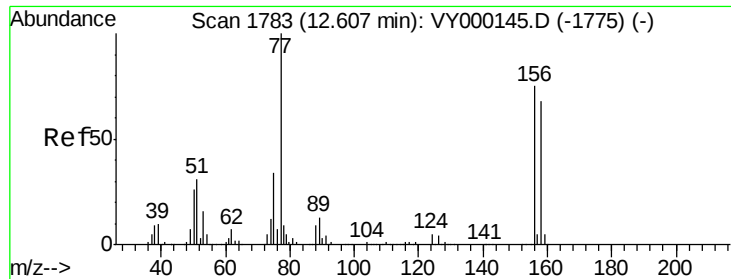
Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Tgt Ion:	75	Resp:	7537
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 5.308 ug/l

RT: 12.60 min Scan# 1782

Delta R.T. -0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

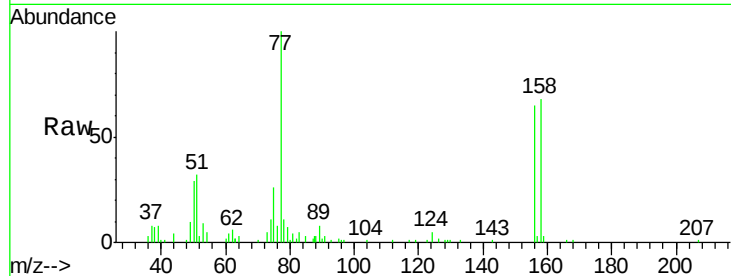
ClientSampleId :

VSTDIC005

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	164.9		83.0	249.2	
158	97.4		47.4	142.2	

Manual Integrations
APPROVED

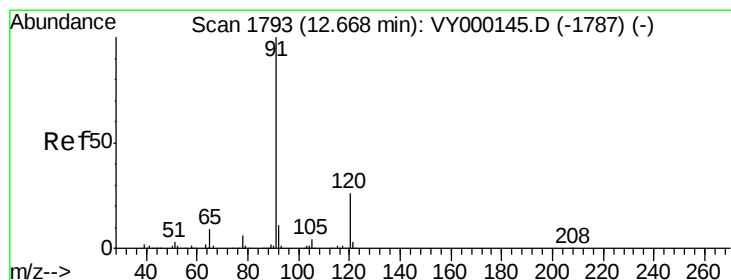
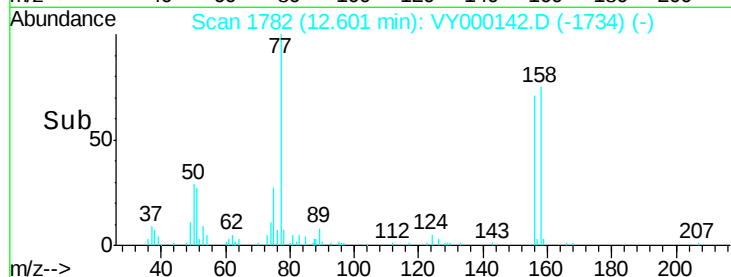
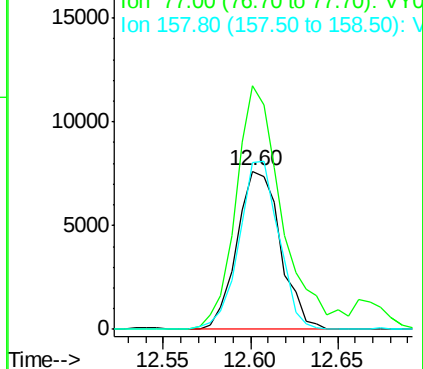
MMDadoda
10/2/2019 9:12:43 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.309 ug/l

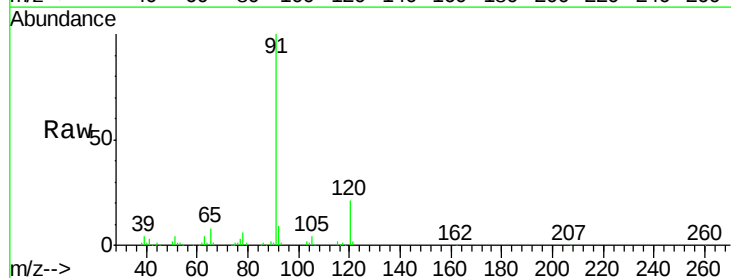
RT: 12.67 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VY000142.D

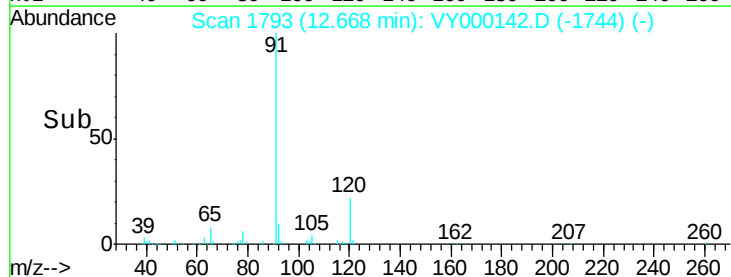
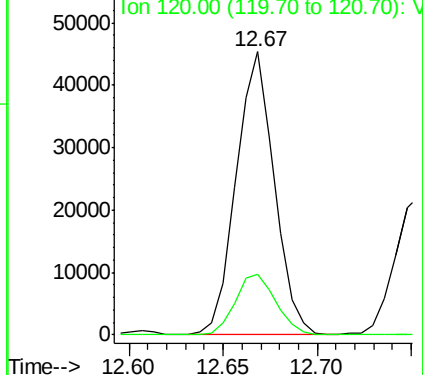
Acq: 26 Sep 2019 10:27

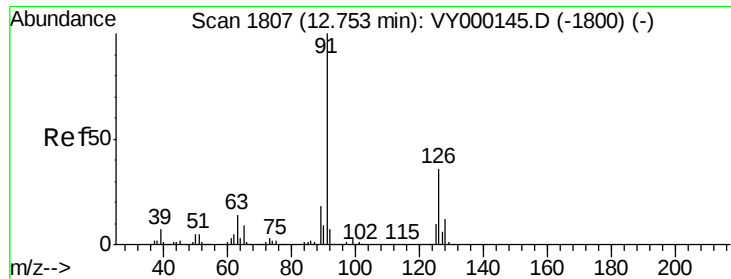
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	22.9		12.8	38.3	



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.242 ug/l

RT: 12.75 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 34189

Ion Ratio Lower Upper

91 100

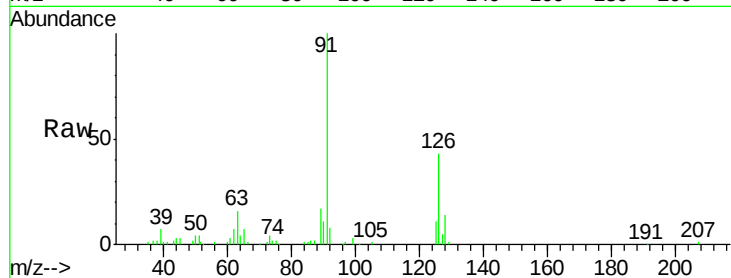
126 38.1 19.1 57.5

Manual Integrations

APPROVED

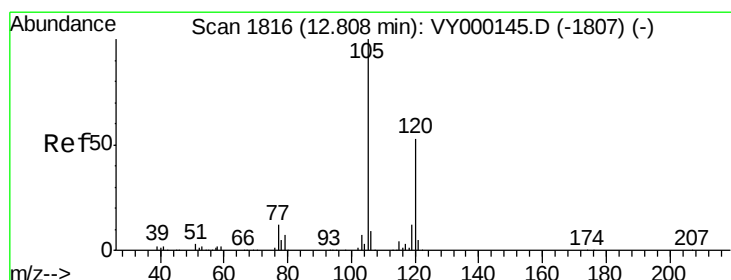
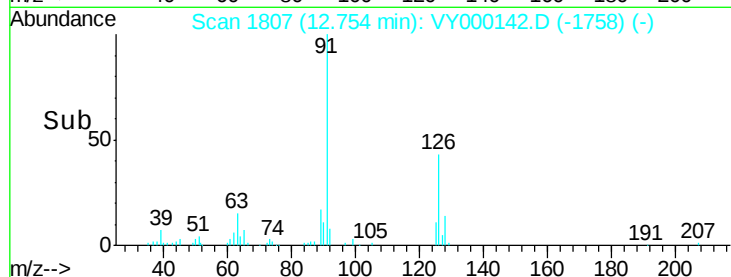
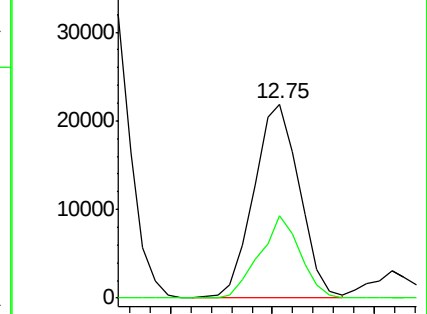
MMDadoda

10/2/2019 9:12:43 AM



Abundance Ion 91.00 (90.70 to 91.70): VY000145.D (-1800) (-)

Ion 125.90 (125.60 to 126.60): VY000145.D (-1800) (-)



#80

1,3,5-Trimethylbenzene

Concen: 5.237 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. 0.00 min

Lab File: VY000142.D

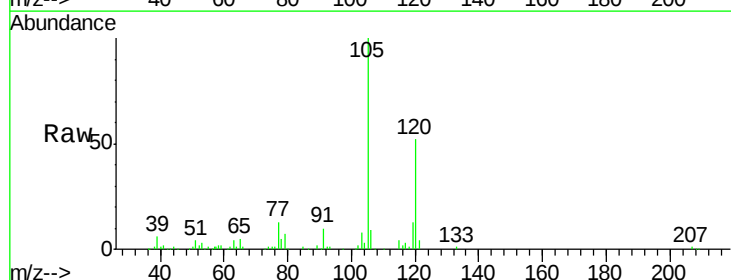
Acq: 26 Sep 2019 10:27

Tgt Ion: 105 Resp: 43809

Ion Ratio Lower Upper

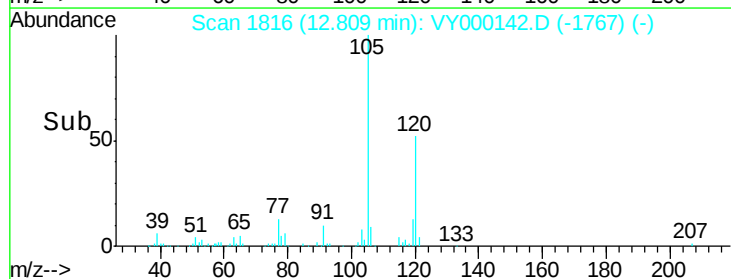
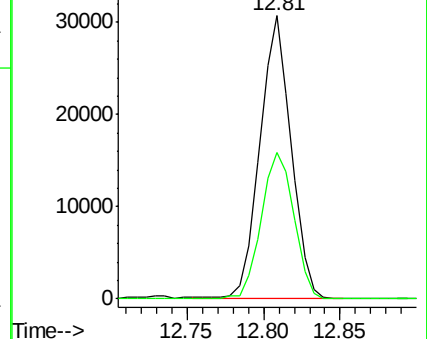
105 100

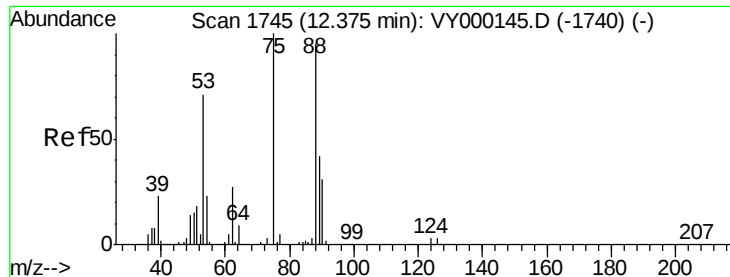
120 53.9 26.7 80.0



Abundance Ion 105.00 (104.70 to 105.70): VY000145.D (-1807) (-)

Ion 120.00 (119.70 to 120.70): VY000145.D (-1807) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 5.327 ug/l

RT: 12.38 min Scan# 1746

Delta R.T. 0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

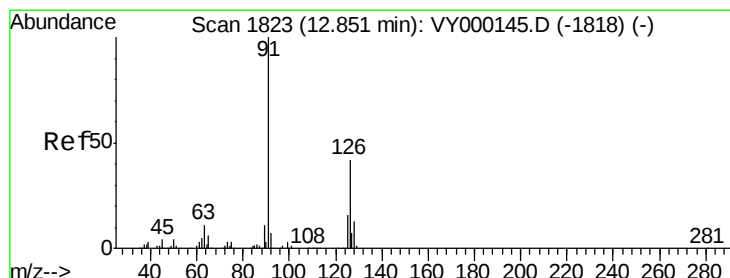
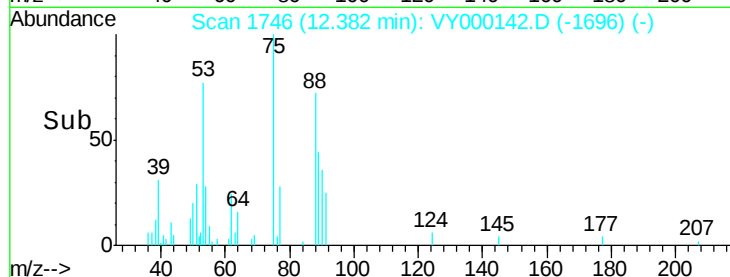
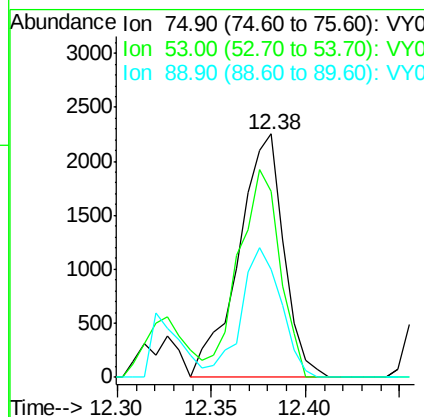
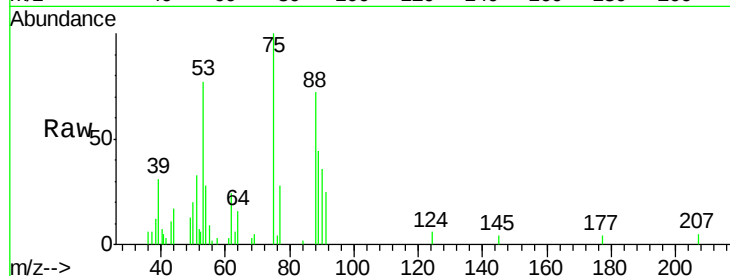
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	3750
Ion	Ratio	Lower	Upper
75	100		
53	78.2	61.8	92.8
89	47.1	35.6	53.4

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#82

4-Chlorotoluene

Concen: 5.208 ug/l

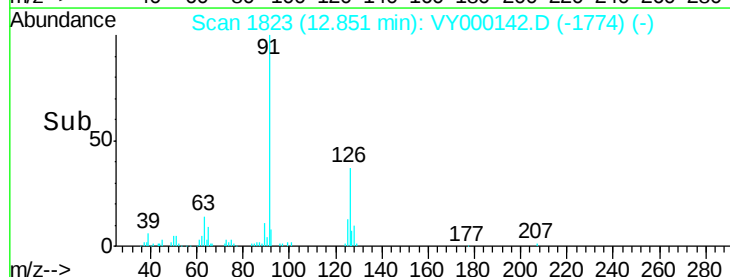
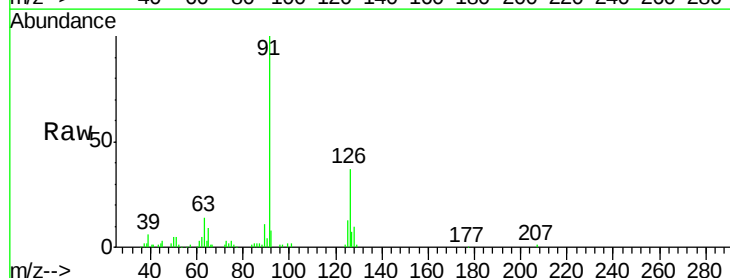
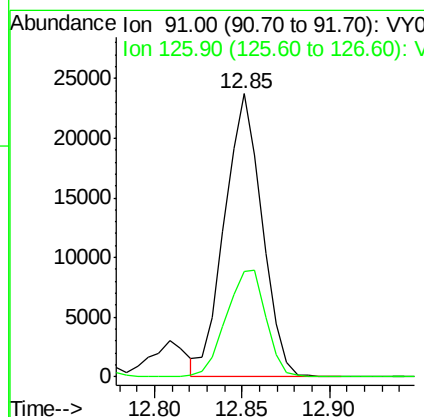
RT: 12.85 min Scan# 1823

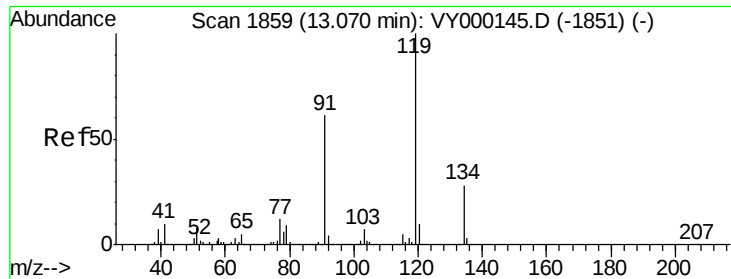
Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Tgt Ion:	91	Resp:	35392
Ion	Ratio	Lower	Upper
91	100		
126	39.5	19.4	58.2





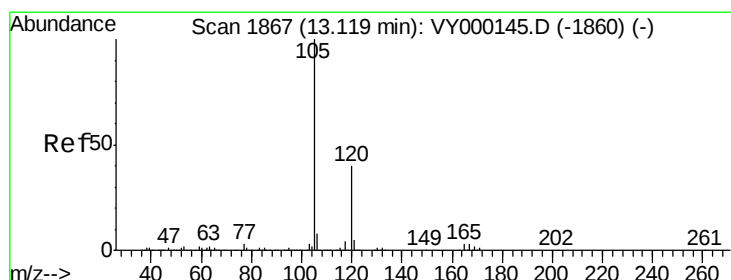
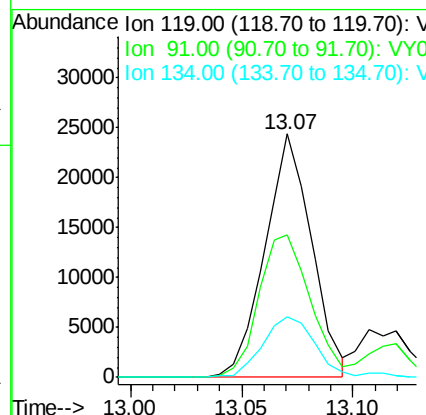
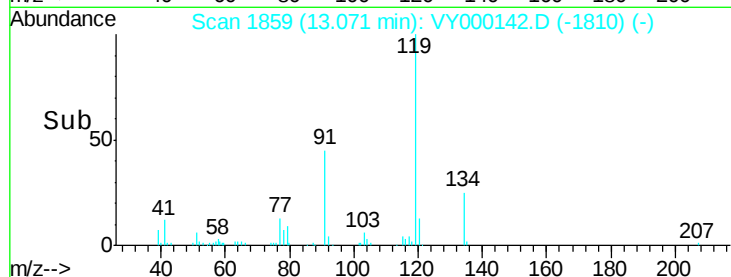
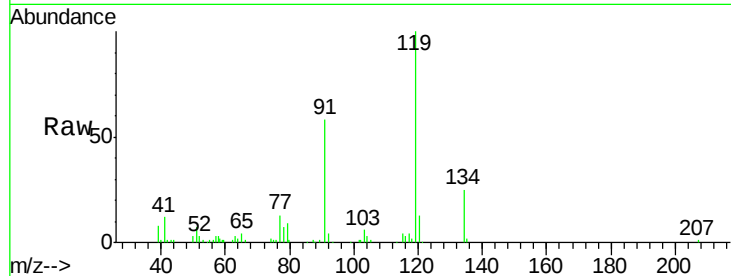
#83
tert-Butylbenzene
Concen: 4.925 ug/l
RT: 13.07 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
119	100	35477		
91	64.4		31.0	93.0
134	28.9		14.0	41.9

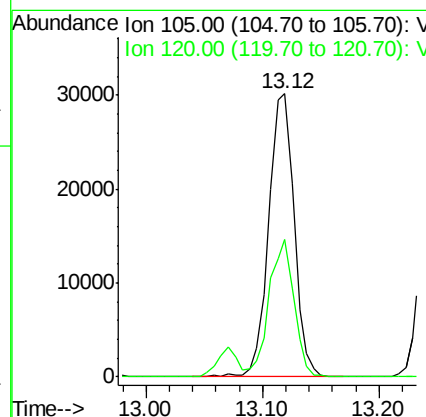
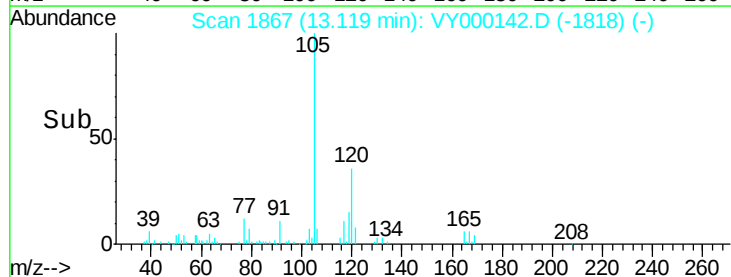
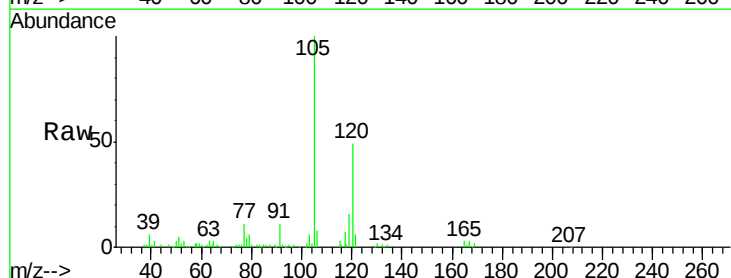
Manual Integrations
APPROVED

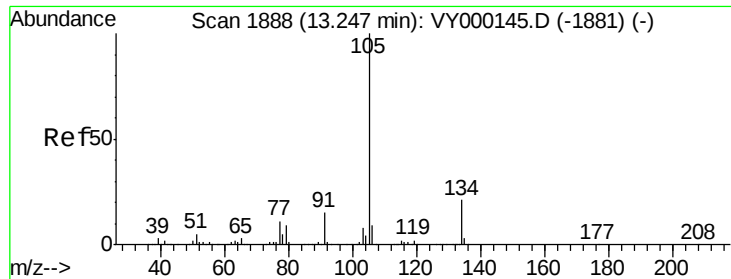
MMDadoda
10/2/2019 9:12:43 AM



#84
1,2,4-Trimethylbenzene
Concen: 5.394 ug/l
RT: 13.12 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	45598		
120	47.8		24.6	73.8





#85

sec-Butylbenzene

Concen: 5.310 ug/l

RT: 13.25 min Scan# 1888

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 54915

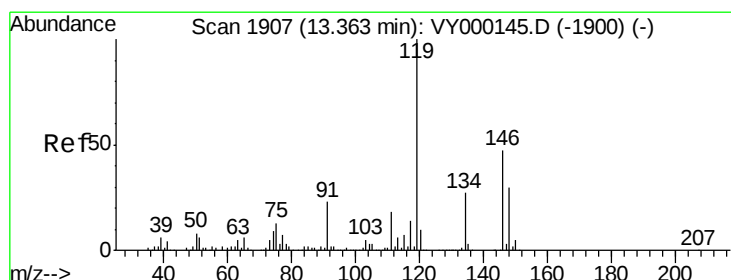
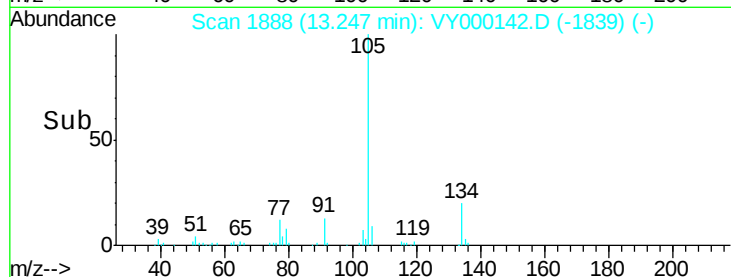
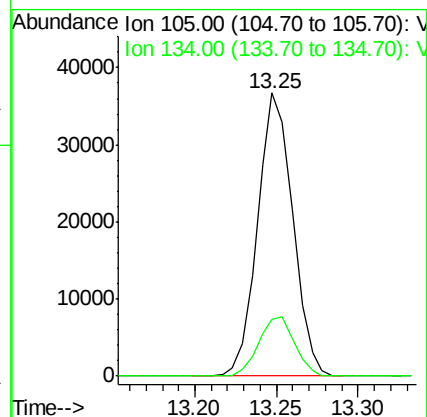
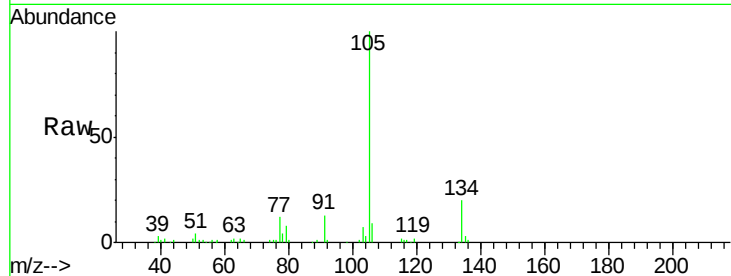
Ion Ratio Lower Upper

105 100

134 21.3 10.9 32.9

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#86

p-Isopropyltoluene

Concen: 5.263 ug/l

RT: 13.36 min Scan# 1907

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

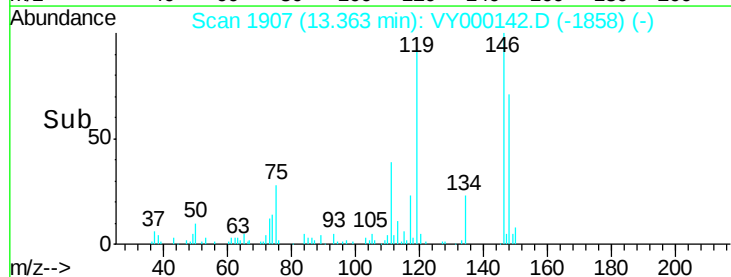
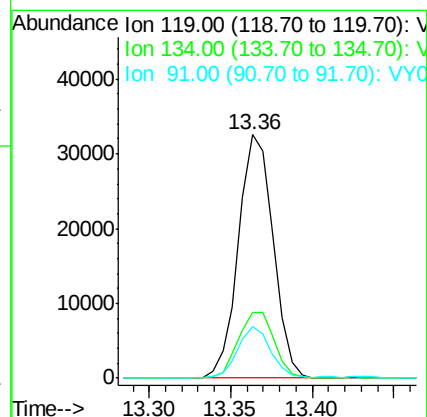
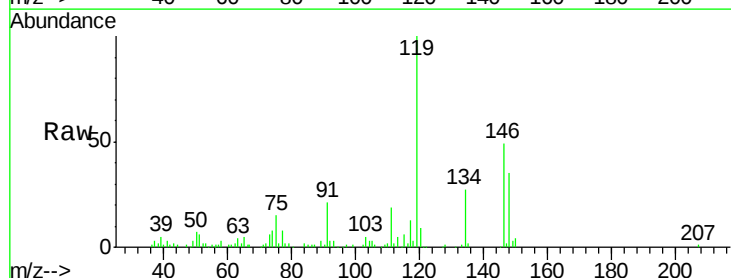
Tgt Ion:119 Resp: 48473

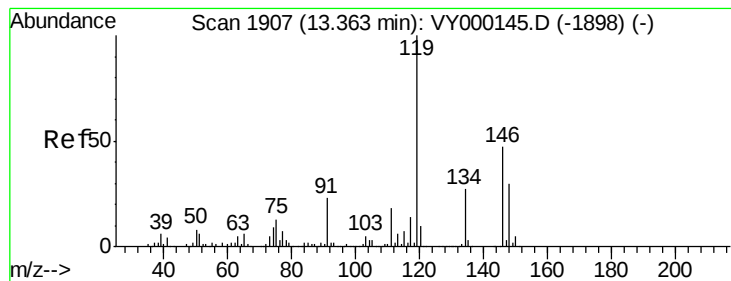
Ion Ratio Lower Upper

119 100

134 28.1 14.3 42.9

91 20.1 11.4 34.1





#87

1,3-Dichlorobenzene

Concen: 5.497 ug/l

RT: 13.36 min Scan# 1906

Delta R.T. -0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

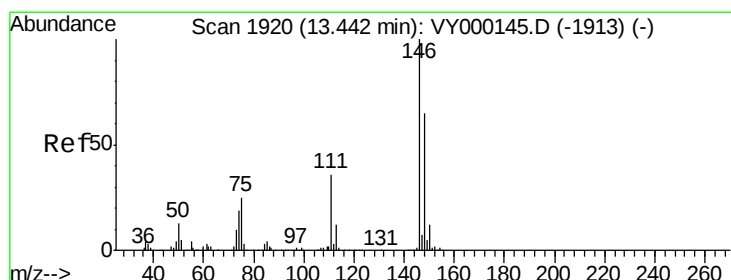
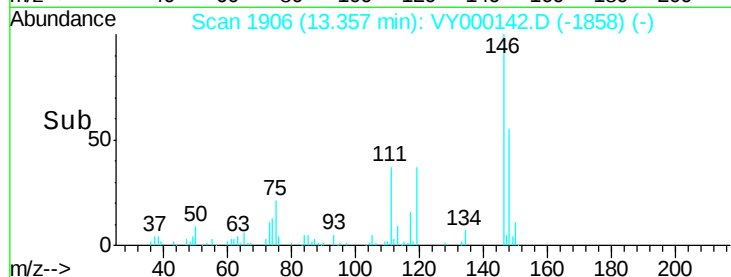
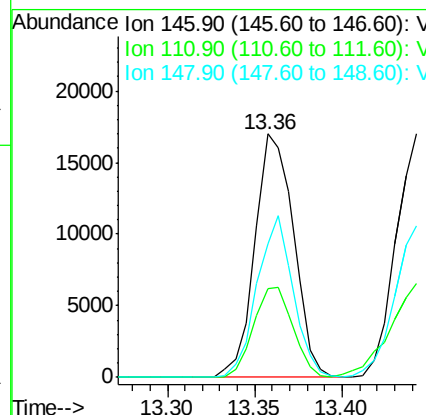
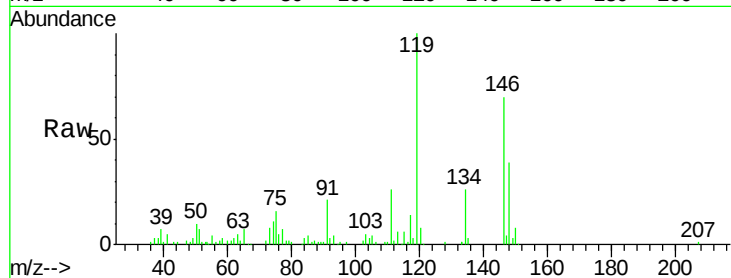
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.0	57.0
148	61.6	31.6	94.8

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#88

1,4-Dichlorobenzene

Concen: 5.263 ug/l

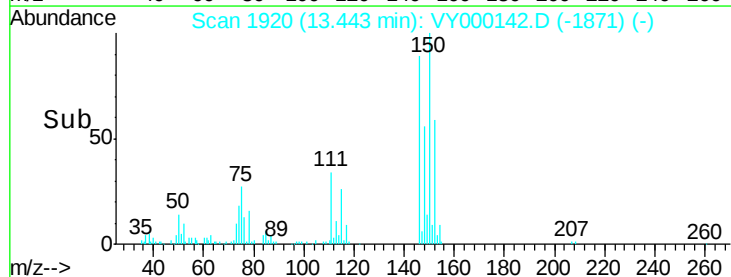
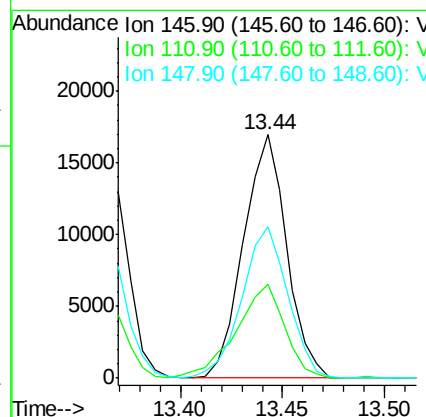
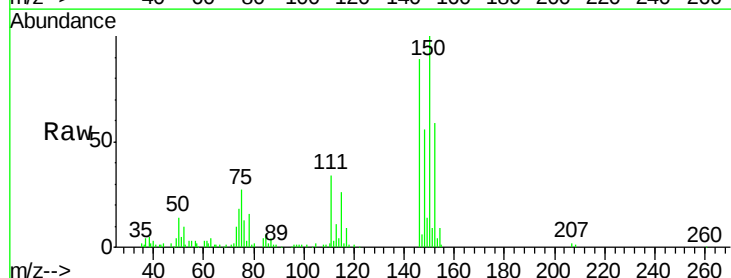
RT: 13.44 min Scan# 1920

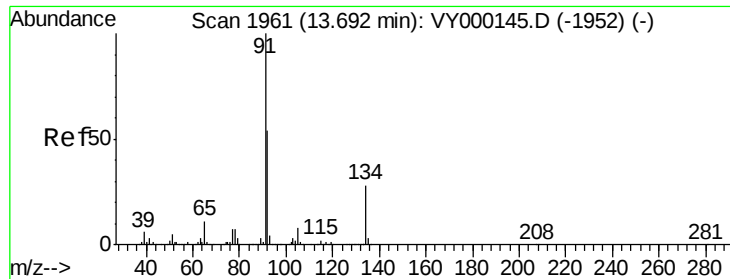
Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.3	18.3	54.9
148	66.5	31.9	95.7





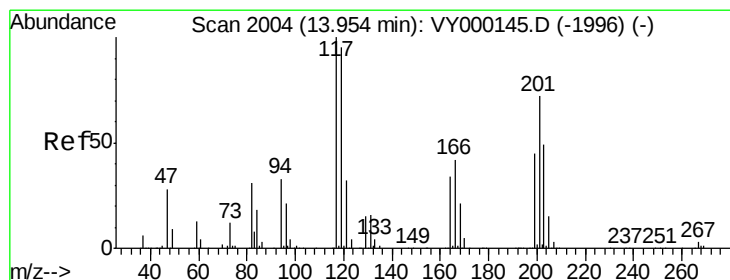
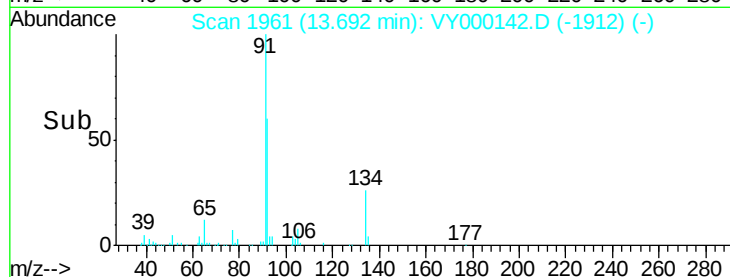
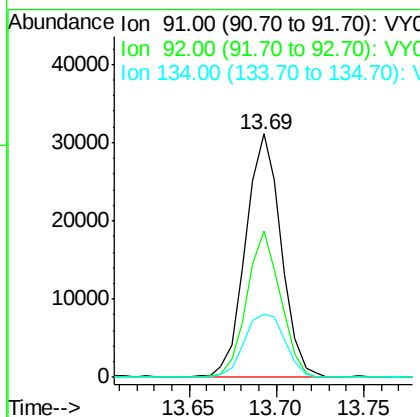
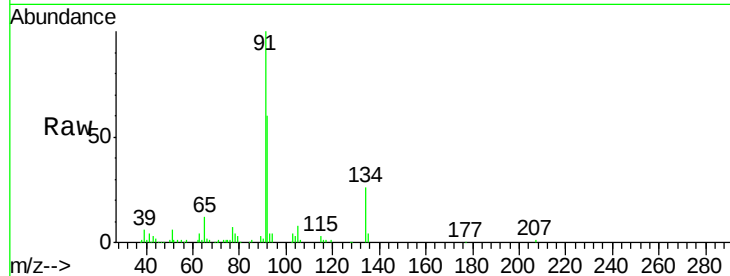
#89
n-Butylbenzene
Concen: 5.055 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.9	26.8	80.4
134	29.7	14.4	43.2

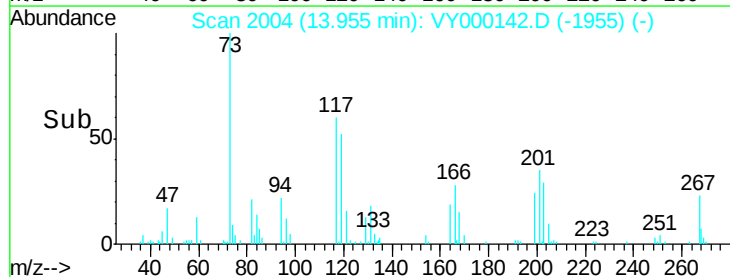
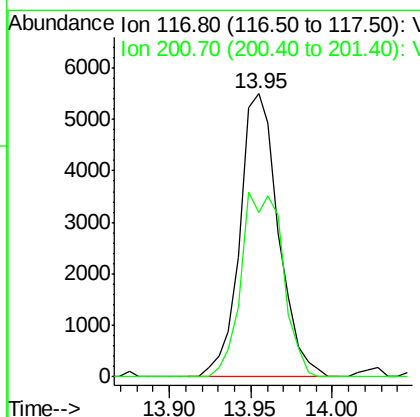
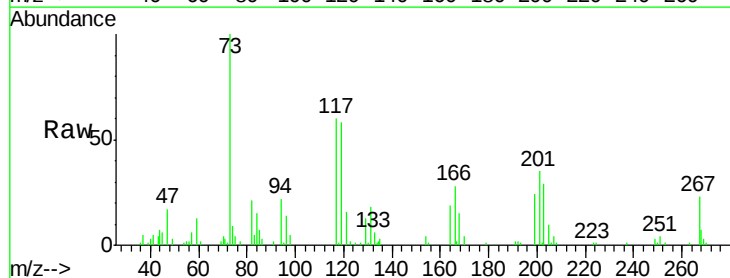
Manual Integrations
APPROVED

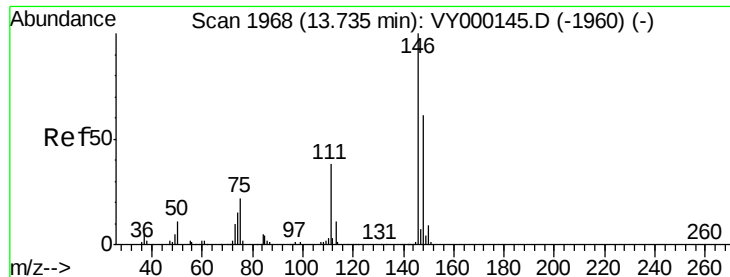
MMDadoda
10/2/2019 9:12:43 AM



#90
Hexachloroethane
Concen: 5.207 ug/l
RT: 13.95 min Scan# 2004
Delta R.T. 0.00 min
Lab File: VY000142.D
Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
117	100		
201	70.0	38.6	115.8





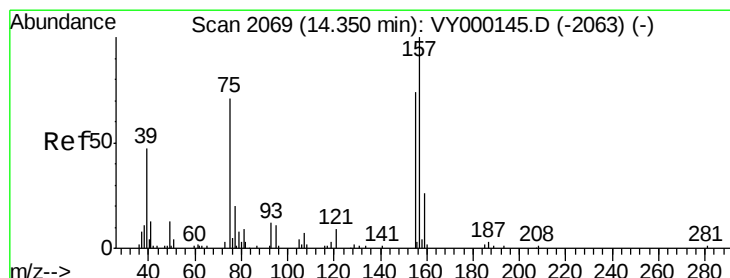
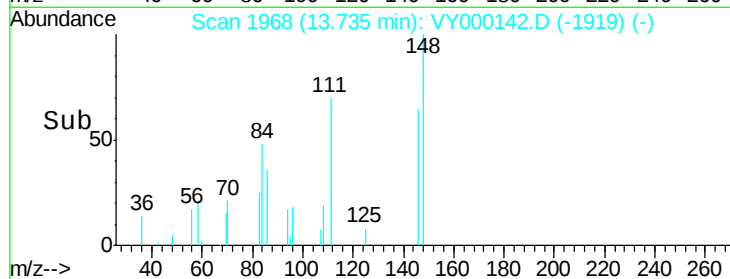
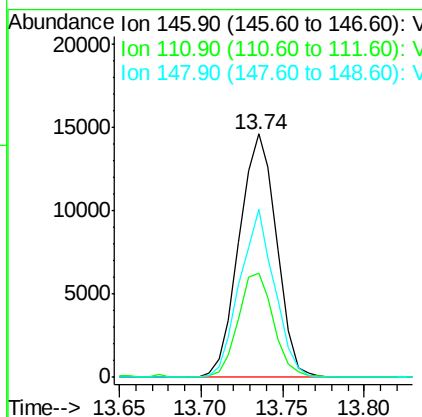
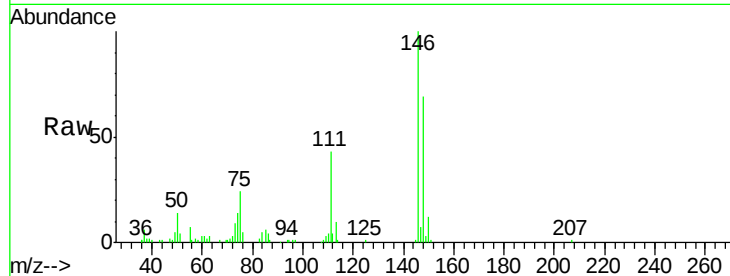
#91
 1,2-Dichlorobenzene
 Concen: 5.380 ug/l
 RT: 13.74 min Scan# 1968
 Delta R.T. 0.00 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	19.2	57.6
148	64.0	31.9	95.7

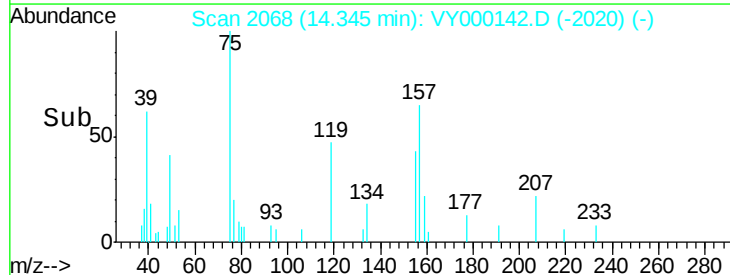
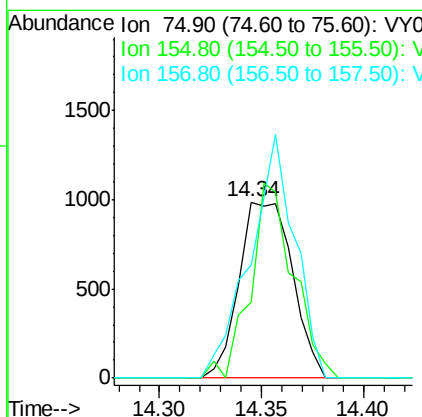
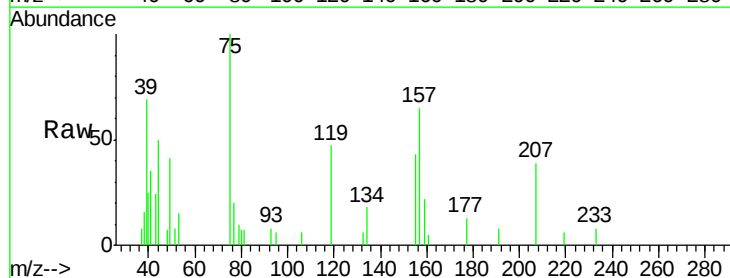
Manual Integrations
 APPROVED

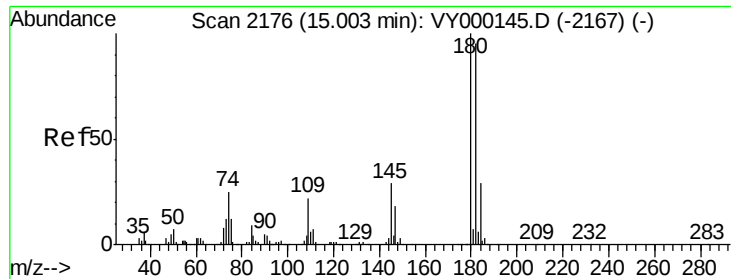
MMDadoda
 10/2/2019 9:12:43 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.802 ug/l
 RT: 14.34 min Scan# 2068
 Delta R.T. -0.01 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.0	51.3	153.9
157	116.9	67.3	201.8





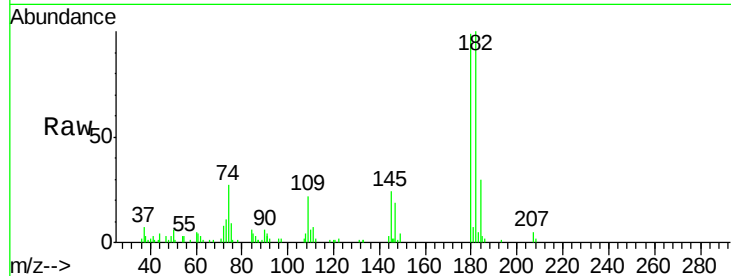
#93
 1,2,4-Trichlorobenzene
 Concen: 5.163 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

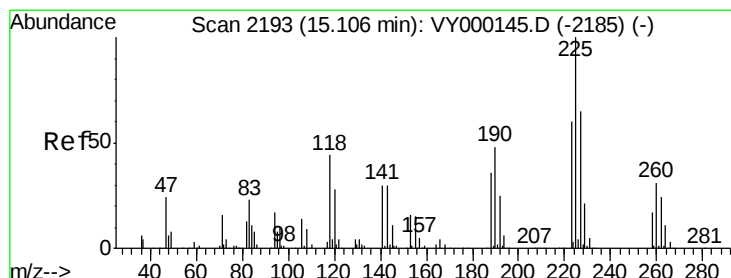
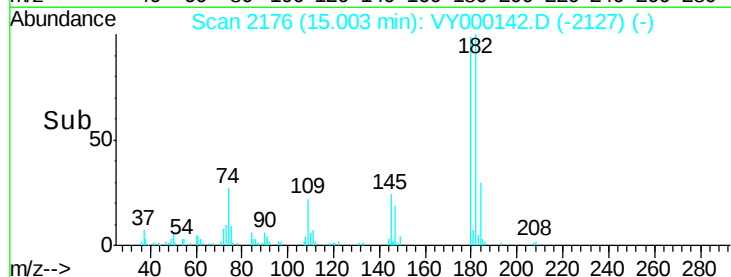
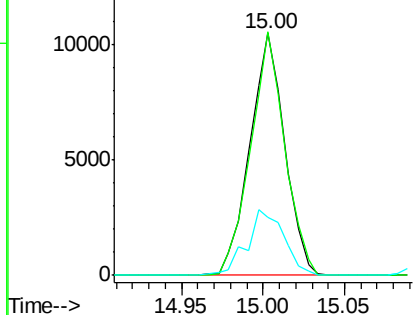
Tot Ion	Ratio	Resp	Lower	Upper
180	100	15579		
182	98.5	47.0	141.2	
145	28.8	14.6	44.0	

Manual Integrations
 APPROVED

MMDadoda
 10/2/2019 9:12:43 AM

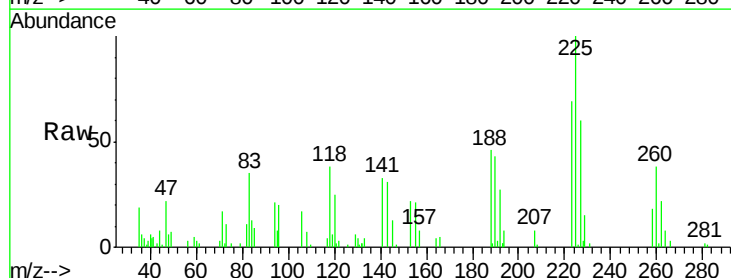


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

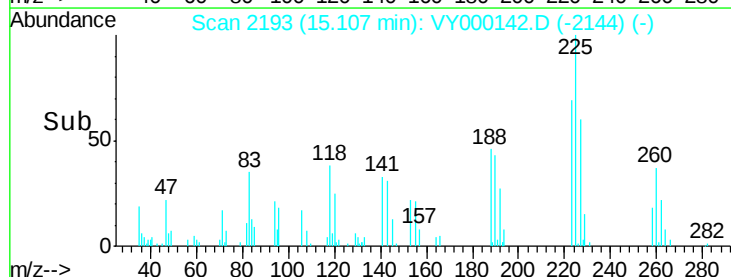
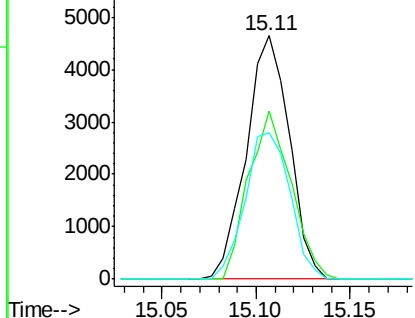


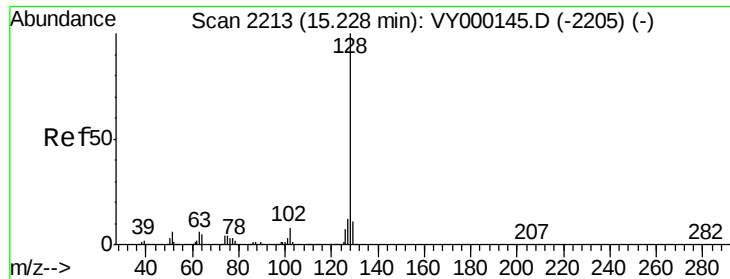
#94
 Hexachlorobutadiene
 Concen: 5.009 ug/l
 RT: 15.11 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VY000142.D
 Acq: 26 Sep 2019 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	7374		
223	68.1	31.5	94.5	
227	62.7	32.4	97.0	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 5.374 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.01 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Instrument :

MSVOA_Y

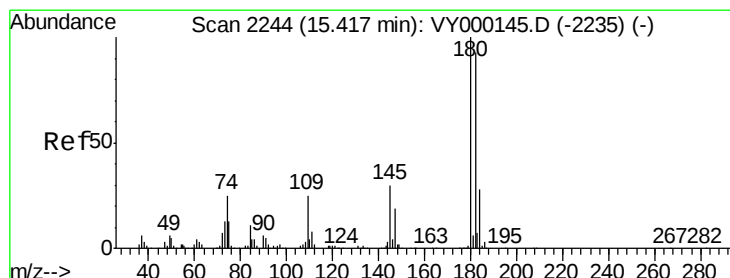
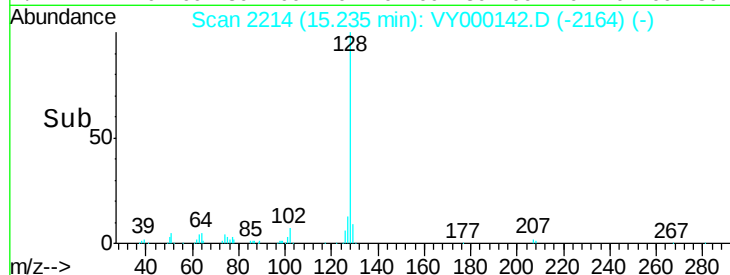
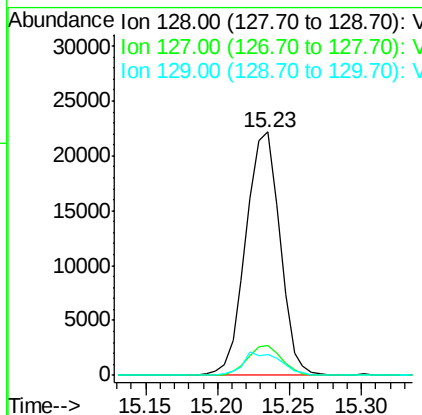
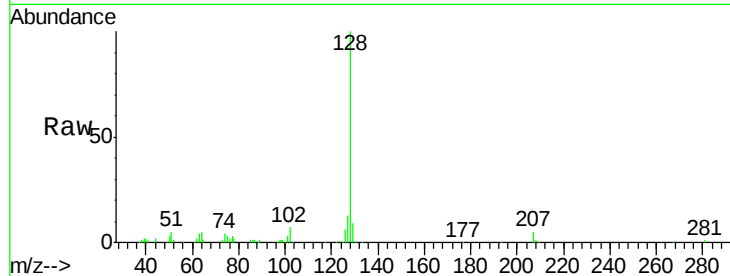
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	36311
Ion Ratio	Lower	Upper	
128	100		
127	12.1	9.5	14.3
129	10.3	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
10/2/2019 9:12:43 AM



#96

1,2,3-Trichlorobenzene

Concen: 4.936 ug/l

RT: 15.42 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VY000142.D

Acq: 26 Sep 2019 10:27

Tgt Ion:	180	Resp:	13358
Ion Ratio	Lower	Upper	
180	100		
182	99.1	46.6	139.7
145	33.7	15.4	46.4

