

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050720\
 Data File : VY002623.D
 Acq On : 07 May 2020 12:08
 Operator : SY/MD
 Sample : L2182-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Manual Integrations
 APPROVED

MMDadoda
 5/8/2020 1:23:50 PM

Quant Time: May 08 08:19:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 07 13:09:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	353652	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	534369	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	481623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	247398	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	147160	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
35) Dibromofluoromethane	7.73	113	157286	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
50) Toluene-d8	10.19	98	617977	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	
62) 4-Bromofluorobenzene	12.49	95	210657	52.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.91	85	11495	4.280	ug/l	99
3) Chloromethane	2.12	50	13991	4.883	ug/l	97
4) Vinyl Chloride	2.26	62	14876	4.496	ug/l	96
5) Bromomethane	2.66	94	11221	4.918	ug/l	100
6) Chloroethane	2.80	64	9224	4.669	ug/l	97
7) Trichlorofluoromethane	3.14	101	23016	4.489	ug/l	99
8) Diethyl Ether	3.54	74	7931	4.603	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.91	101	14742	4.704	ug/l	100
10) Methyl Iodide	4.11	142	17238	4.037	ug/l	99
11) Tert butyl alcohol	4.97	59	7970	26.052	ug/l #	86
12) 1,1-Dichloroethene	3.89	96	14602	4.796	ug/l	96
13) Acrolein	3.74	56	3265	15.434	ug/l	93
14) Allyl chloride	4.49	41	20405	4.600	ug/l	99
15) Acrylonitrile	5.19	53	17420	21.437	ug/l	98
16) Acetone	3.96	43	12858	20.952	ug/l	99
17) Carbon Disulfide	4.21	76	41663	4.549	ug/l	99
18) Methyl Acetate	4.50	43	10490	5.116	ug/l	96
19) Methyl tert-butyl Ether	5.24	73	34446	4.337	ug/l	98
20) Methylene Chloride	4.74	84	18832	5.488	ug/l	94
21) trans-1,2-Dichloroethene	5.24	96	15705	4.720	ug/l	92
22) Diisopropyl ether	6.14	45	41371	4.609	ug/l	93
23) Vinyl Acetate	6.08	43	113861	20.172	ug/l	98
24) 1,1-Dichloroethane	6.04	63	24482	4.611	ug/l	98
25) 2-Butanone	7.01	43	21246	21.150	ug/l	97
26) 2,2-Dichloropropane	7.00	77	23679	4.692	ug/l	98
27) cis-1,2-Dichloroethene	7.00	96	17501	4.753	ug/l	98
28) Bromochloromethane	7.35	49	10110	4.647	ug/l	97
29) Tetrahydrofuran	7.36	42	14315	21.538	ug/l	97
30) Chloroform	7.52	83	25268	4.577	ug/l	95
31) Cyclohexane	7.80	56	29247	5.472	ug/l #	84
32) 1,1,1-Trichloroethane	7.71	97	23511	4.582	ug/l	98
36) 1,1-Dichloropropene	7.93	75	20575	4.593	ug/l	100
37) Ethyl Acetate	7.10	43	10314	4.480	ug/l #	93
38) Carbon Tetrachloride	7.91	117	21862	4.470	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050720\
 Data File : VY002623.D
 Acq On : 07 May 2020 12:08
 Operator : SY/MD
 Sample : L2182-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Manual Integrations
 APPROVED

MMDadoda
 5/8/2020 1:23:50 PM

Quant Time: May 08 08:19:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 07 13:09:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	27059	4.573	ug/l	94
40) Benzene	8.17	78	59939	4.633	ug/l	97
41) Methacrylonitrile	7.35	41	6356m	5.135	ug/l	
42) 1,2-Dichloroethane	8.25	62	15696	4.325	ug/l	99
43) Isopropyl Acetate	8.28	43	17929	4.154	ug/l	100
44) Trichloroethene	8.95	130	18988	4.696	ug/l	97
45) 1,2-Dichloropropane	9.22	63	14366	4.601	ug/l	99
46) Dibromomethane	9.32	93	7633	4.249	ug/l	98
47) Bromodichloromethane	9.50	83	18437	4.220	ug/l	96
48) Methyl methacrylate	9.30	41	7742	3.964	ug/l	95
49) 1,4-Dioxane	9.31	88	1981	83.278	ug/l #	90
51) 4-Methyl-2-Pentanone	10.08	43	49301	22.164	ug/l	99
52) Toluene	10.25	92	38515	4.632	ug/l	99
53) t-1,3-Dichloropropene	10.47	75	19016	4.155	ug/l	93
54) cis-1,3-Dichloropropene	9.94	75	22301	4.215	ug/l	99
55) 1,1,2-Trichloroethane	10.65	97	11660	4.450	ug/l	97
56) Ethyl methacrylate	10.52	69	14146	4.059	ug/l	97
57) 1,3-Dichloropropane	10.80	76	19103	4.300	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.79	63	40275	21.912	ug/l	98
59) 2-Hexanone	10.84	43	29881	19.517	ug/l	99
60) Dibromochloromethane	10.99	129	14578	4.375	ug/l	96
61) 1,2-Dibromoethane	11.10	107	11385	4.389	ug/l	97
64) Tetrachloroethene	10.72	164	21279	4.973	ug/l	94
65) Chlorobenzene	11.52	112	41807	4.566	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.60	131	14985	4.409	ug/l	100
67) Ethyl Benzene	11.60	91	74257	4.617	ug/l	98
68) m/p-Xylenes	11.70	106	56328	9.052	ug/l	99
69) o-Xylene	12.03	106	26236	4.503	ug/l	99
70) Styrene	12.05	104	44620	4.480	ug/l	99
71) Bromoform	12.21	173	8489	4.024	ug/l #	96
73) Isopropylbenzene	12.33	105	72870	4.545	ug/l	99
74) N-amyl acetate	12.15	43	15309	3.969	ug/l #	96
75) 1,1,2,2-Tetrachloroethane	12.59	83	10512	4.122	ug/l	99
76) 1,2,3-Trichloropropane	12.64	75	9074m	4.127	ug/l	
77) Bromobenzene	12.61	156	18110	4.521	ug/l	99
78) n-propylbenzene	12.67	91	86560	4.652	ug/l	100
79) 2-Chlorotoluene	12.76	91	47679	4.626	ug/l	99
80) 1,3,5-Trimethylbenzene	12.82	105	60596	4.559	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.39	75	4231	3.859	ug/l	96
82) 4-Chlorotoluene	12.86	91	49472	4.570	ug/l	100
83) tert-Butylbenzene	13.08	119	52782	4.529	ug/l	99
84) 1,2,4-Trimethylbenzene	13.13	105	59978	4.528	ug/l	98
85) sec-Butylbenzene	13.26	105	74667	4.617	ug/l	99
86) p-Isopropyltoluene	13.38	119	70382	4.645	ug/l	99
87) 1,3-Dichlorobenzene	13.37	146	35446	4.675	ug/l	99
88) 1,4-Dichlorobenzene	13.45	146	34763	4.630	ug/l	91
89) n-Butylbenzene	13.70	91	63988	4.639	ug/l	99
90) Hexachloroethane	13.97	117	12818	4.645	ug/l	96
91) 1,2-Dichlorobenzene	13.75	146	30328	4.483	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.36	75	1937	4.075	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050720\
Data File : VY002623.D
Acq On : 07 May 2020 12:08
Operator : SY/MD
Sample : L2182-03 4PPBMDL
Misc : 5.00G/5ML/MSVOA Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

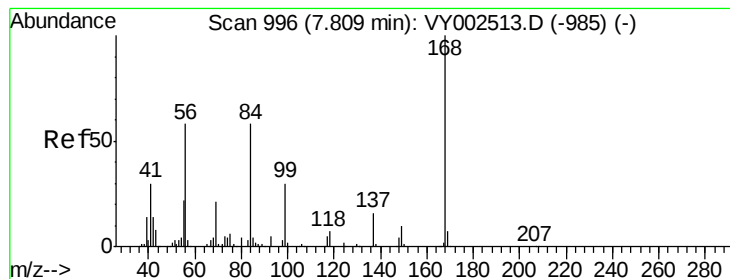
Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM

Quant Time: May 08 08:19:00 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
Quant Title : SW846 8260
QLast Update : Thu May 07 13:09:53 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.02	180	22569	4.595	ug/l	98
94) Hexachlorobutadiene	15.12	225	14433	4.895	ug/l	97
95) Naphthalene	15.25	128	38157	4.259	ug/l	99
96) 1,2,3-Trichlorobenzene	15.44	180	19372	4.646	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:168 Resp: 353652

Ion Ratio Lower Upper

168 100

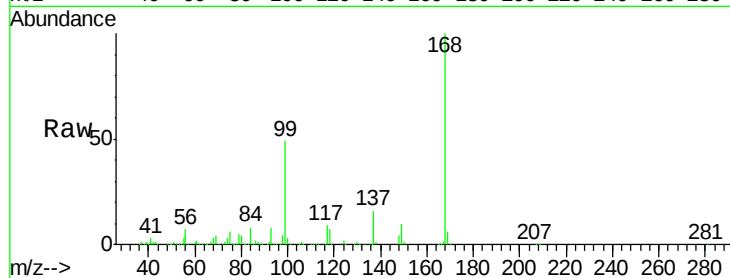
99 49.5 39.2 58.8

Manual Integrations

APPROVED

MMDadoda

5/8/2020 1:23:50 PM



Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.80

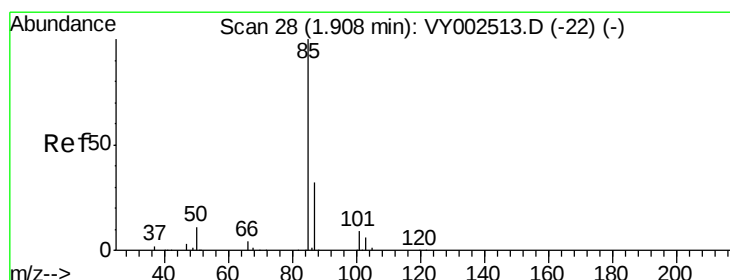
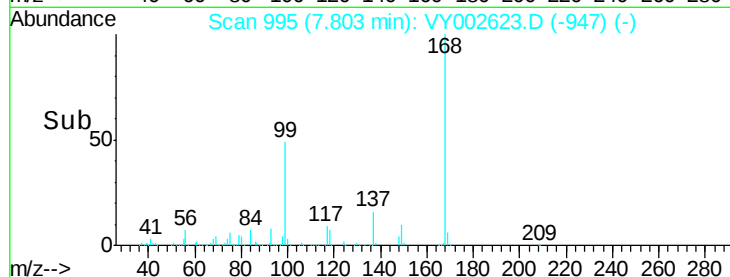
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 4.280 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.00 min

Lab File: VY002623.D

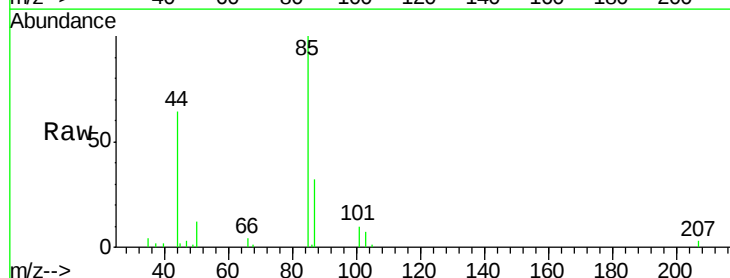
Acq: 07 May 2020 12:08

Tgt Ion: 85 Resp: 11495

Ion Ratio Lower Upper

85 100

87 31.9 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VY002513.D (-22) (-)

Ion 86.90 (86.60 to 87.60): VY002513.D (-22) (-)

1.91

8000

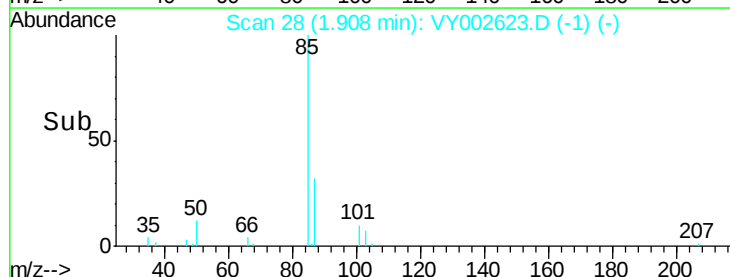
6000

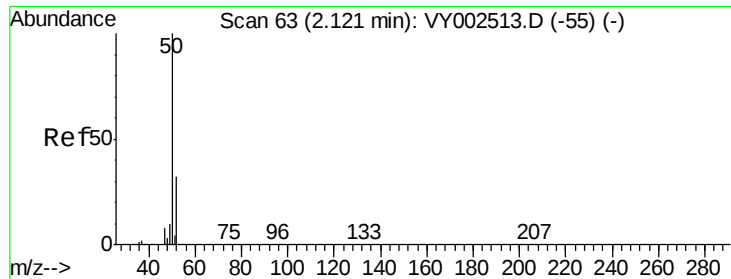
4000

2000

0

Time-->





#3

Chloromethane

Concen: 4.883 ug/l

RT: 2.12 min Scan# 63

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 50 Resp: 13991

Ion Ratio Lower Upper

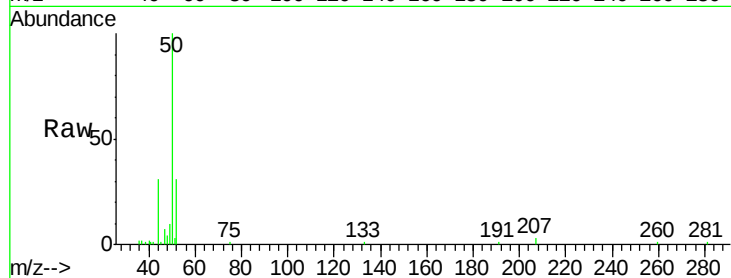
50 100

52 30.7 25.9 38.9

Manual Integrations
APPROVED

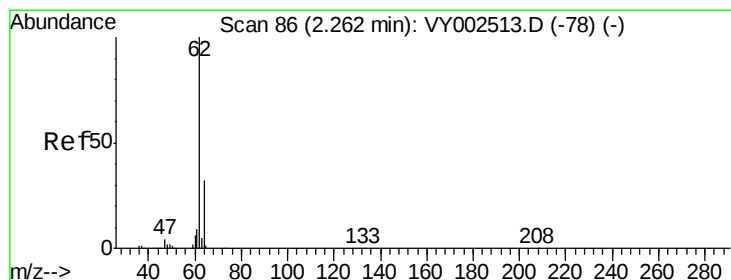
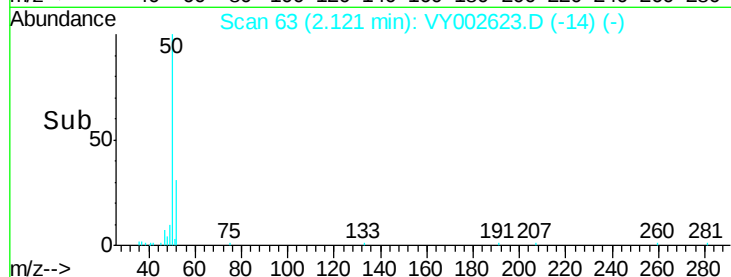
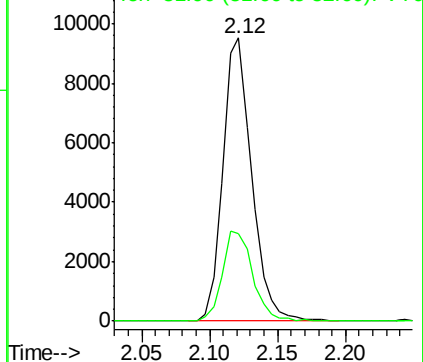
MMDadoda

5/8/2020 1:23:50 PM



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#4

Vinyl Chloride

Concen: 4.496 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY002623.D

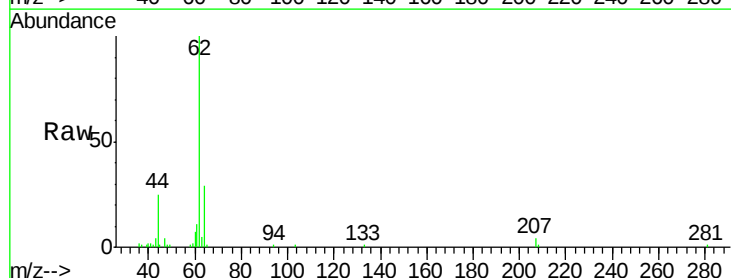
Acq: 07 May 2020 12:08

Tgt Ion: 62 Resp: 14876

Ion Ratio Lower Upper

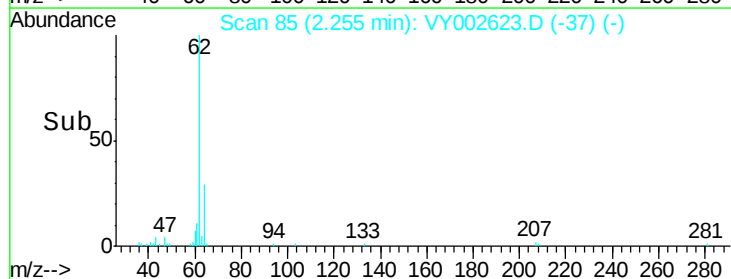
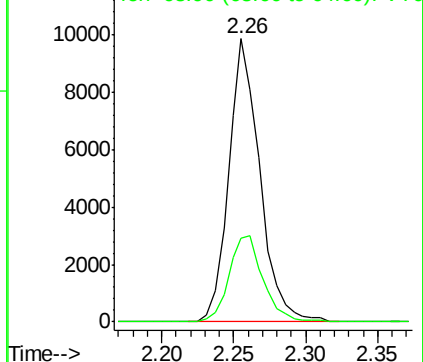
62 100

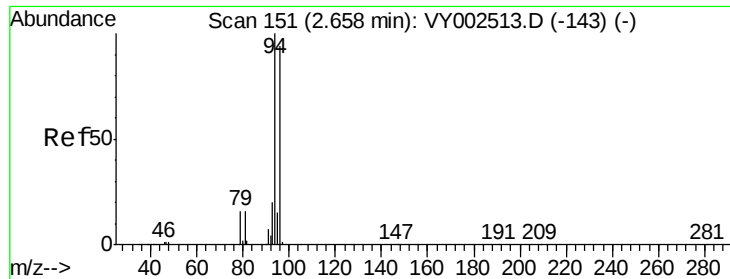
64 29.5 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0





#5

Bromomethane

Concen: 4.918 ug/l

RT: 2.66 min Scan# 151

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 94 Resp: 11221

Ion Ratio Lower Upper

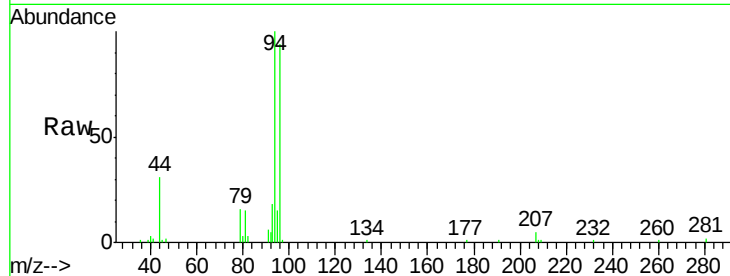
94 100

96 93.9 74.9 112.3

Manual Integrations
APPROVED

MMDadoda

5/8/2020 1:23:50 PM



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0

2.66

6000

5000

4000

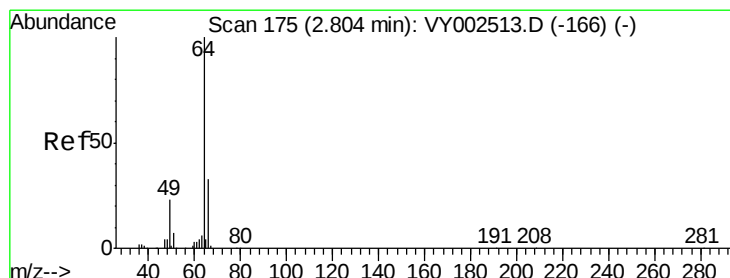
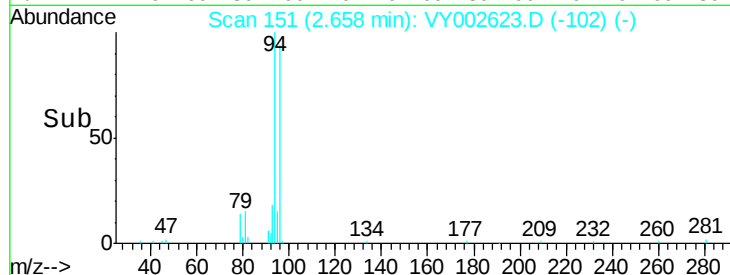
3000

2000

1000

0

Time--> 2.55 2.60 2.65 2.70 2.75



#6

Chloroethane

Concen: 4.669 ug/l

RT: 2.80 min Scan# 175

Delta R.T. -0.00 min

Lab File: VY002623.D

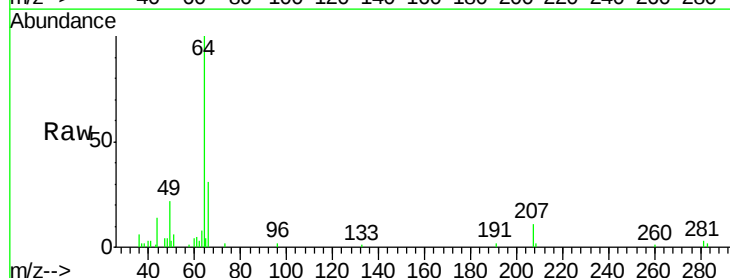
Acq: 07 May 2020 12:08

Tgt Ion: 64 Resp: 9224

Ion Ratio Lower Upper

64 100

66 31.4 26.3 39.5



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0

2.80

5000

4000

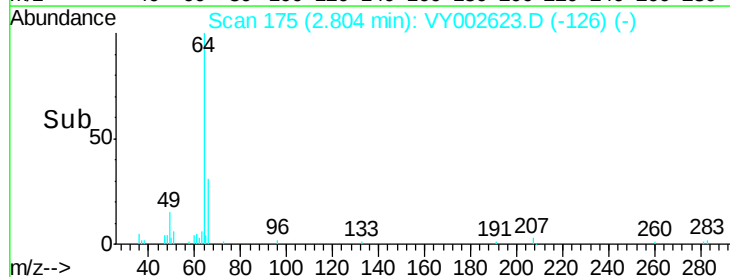
3000

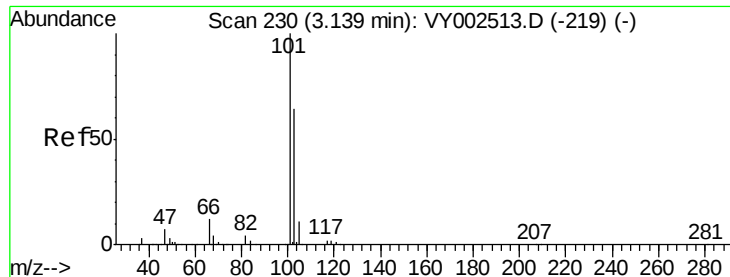
2000

1000

0

Time--> 2.70 2.75 2.80 2.85 2.90





#7

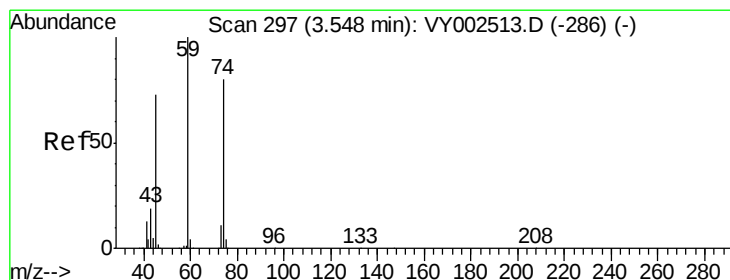
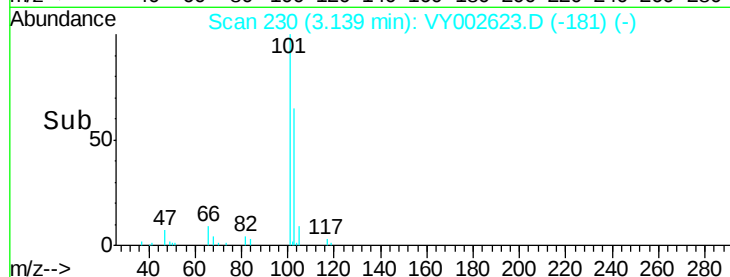
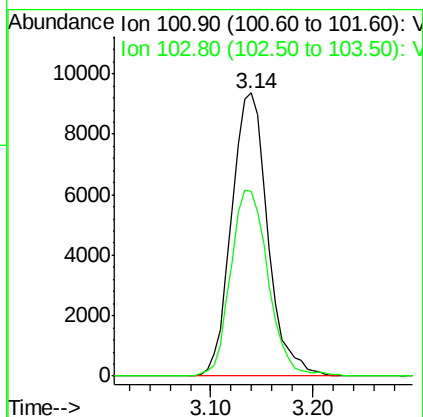
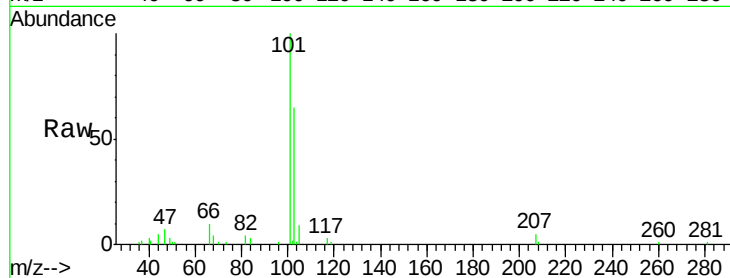
Trichlorofluoromethane
 Concen: 4.489 ug/l
 RT: 3.14 min Scan# 230
 Delta R.T. -0.00 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.4	77.0

Manual Integrations
 APPROVED

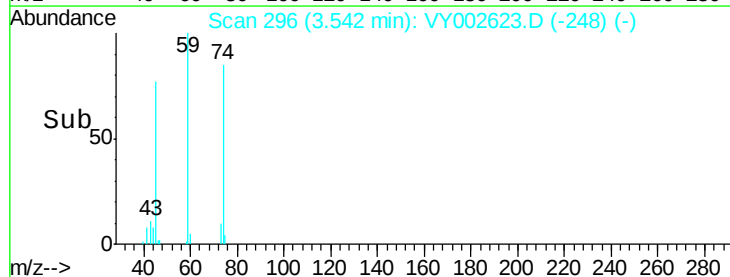
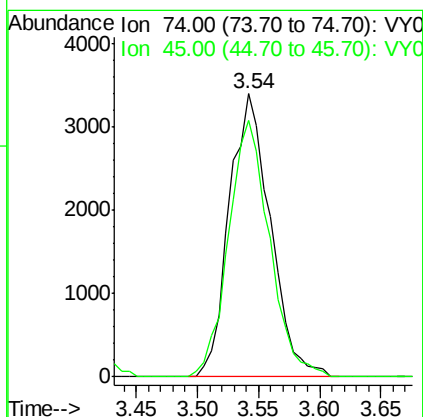
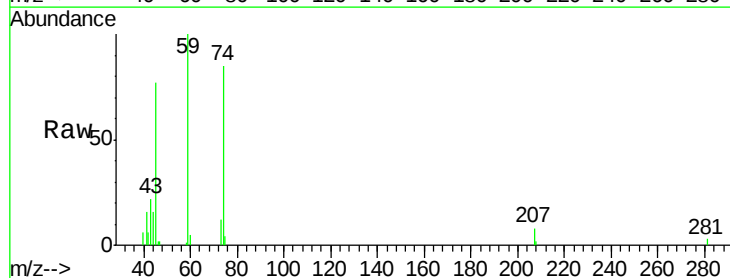
MMDadoda
 5/8/2020 1:23:50 PM

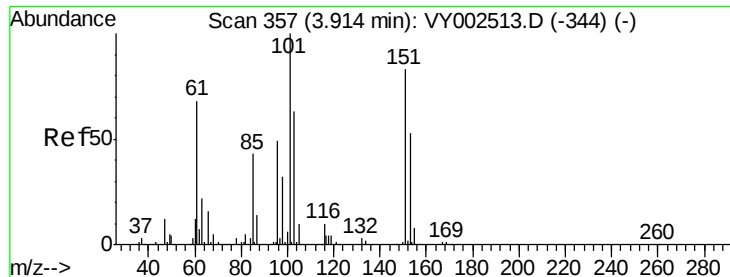


#8

Diethyl Ether
 Concen: 4.603 ug/l
 RT: 3.54 min Scan# 296
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
74	100		
45	90.3	46.2	138.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.704 ug/l

RT: 3.91 min Scan# 357

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

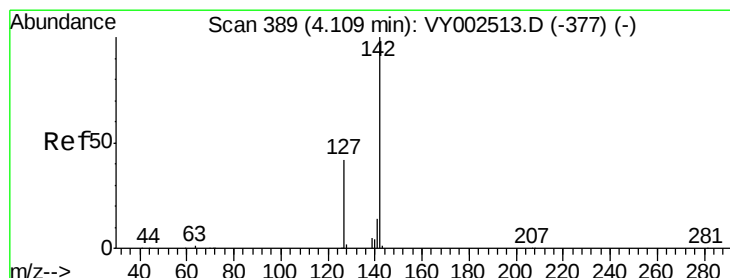
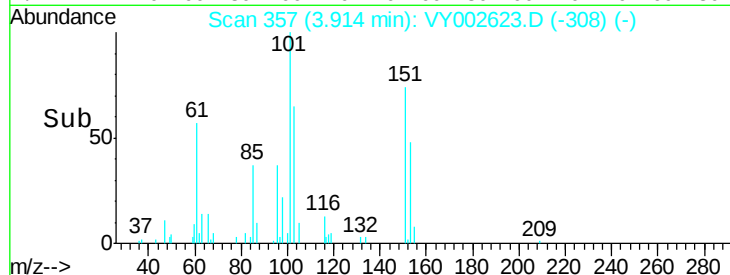
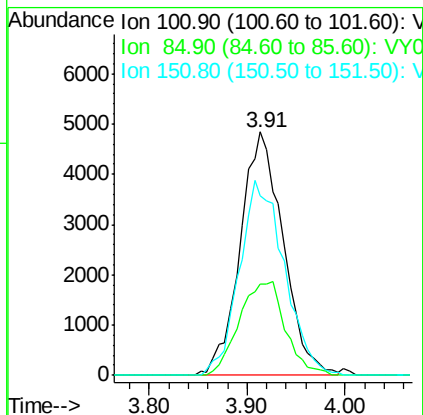
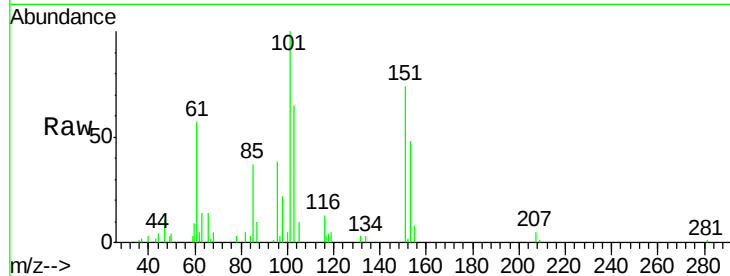
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	101	Resp:	14742
Ion Ratio	Lower	Upper	
101	100		
85	41.3	33.4	50.2
151	83.8	66.8	100.2

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



#10

Methyl Iodide

Concen: 4.037 ug/l

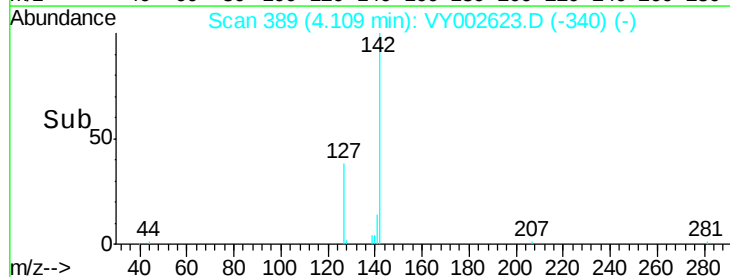
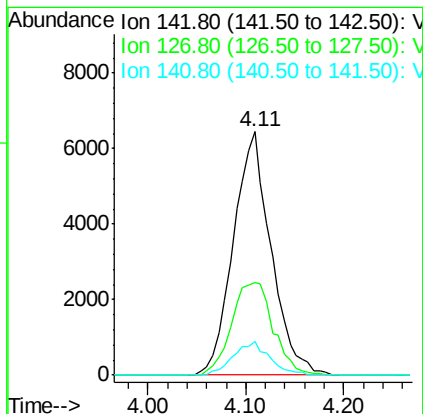
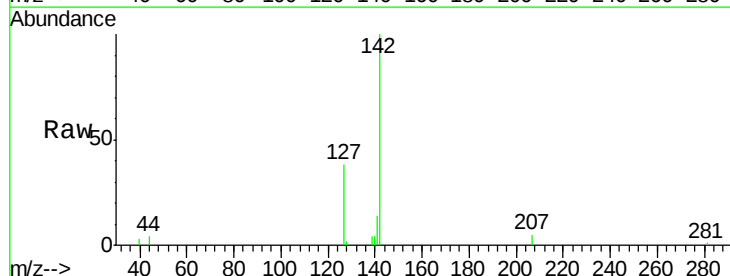
RT: 4.11 min Scan# 389

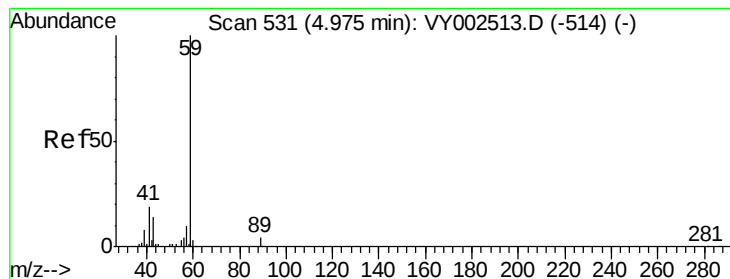
Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Tgt Ion:	142	Resp:	17238
Ion Ratio	Lower	Upper	
142	100		
127	42.0	33.7	50.5
141	13.2	11.4	17.0





#11

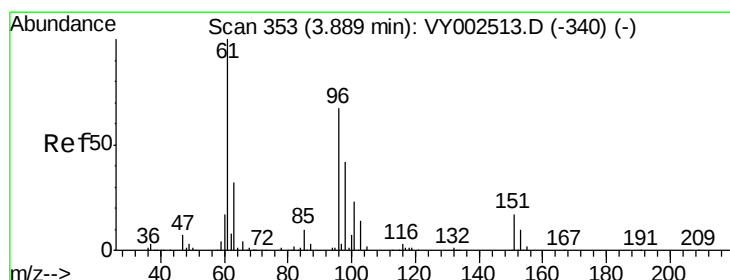
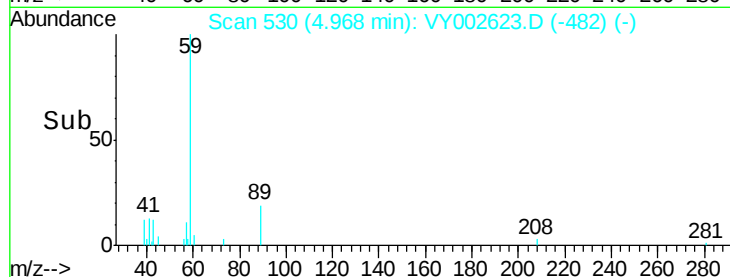
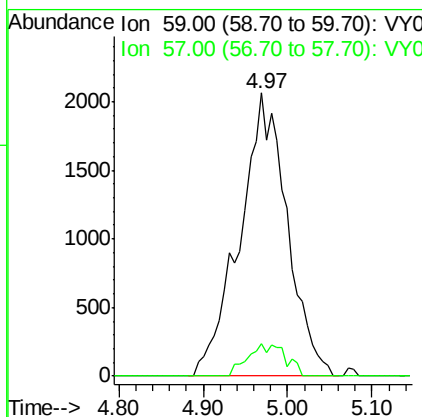
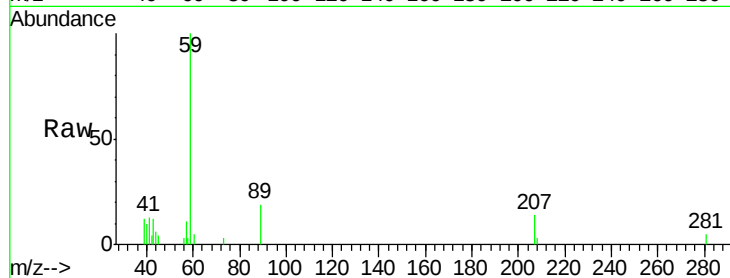
Tert butyl alcohol
 Concen: 26.052 ug/l
 RT: 4.97 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	4.7	7.8	11.6#

Manual Integrations
 APPROVED

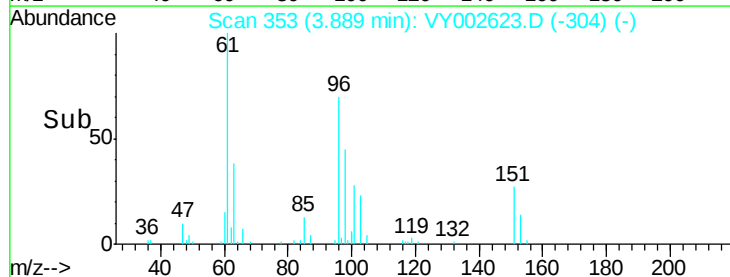
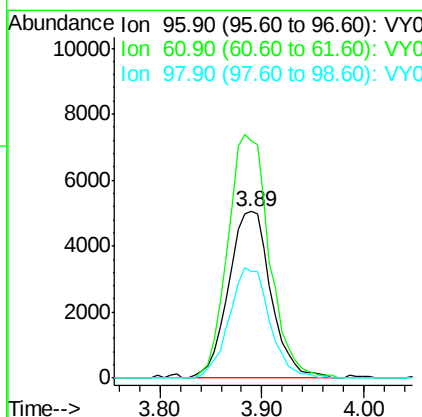
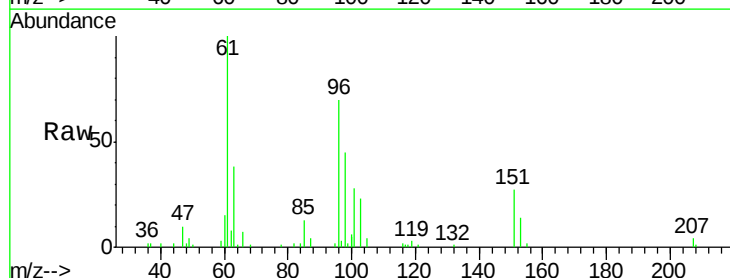
MMDadoda
 5/8/2020 1:23:50 PM

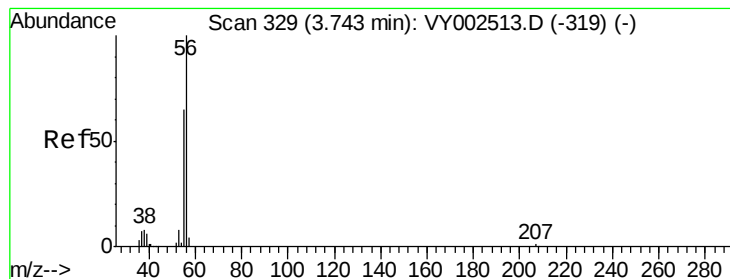


#12

1,1-Dichloroethene
 Concen: 4.796 ug/l
 RT: 3.89 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	142.0	118.8	178.2
98	63.7	49.6	74.4





#13

Acrolein

Concen: 15.434 ug/l

RT: 3.74 min Scan# 329

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 56 Resp: 3265

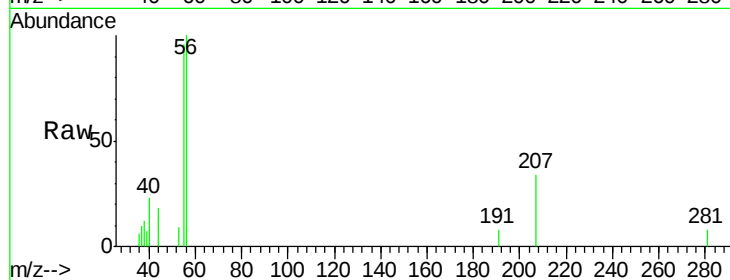
Ion Ratio Lower Upper

56 100

55 72.9 53.8 80.6

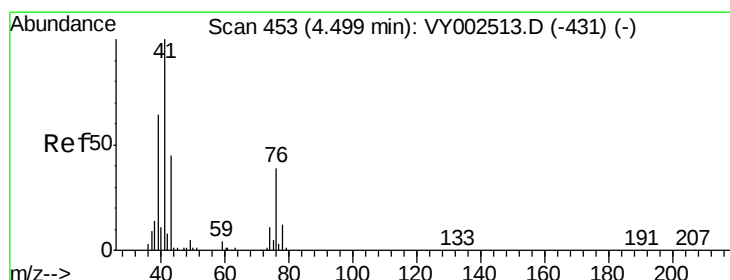
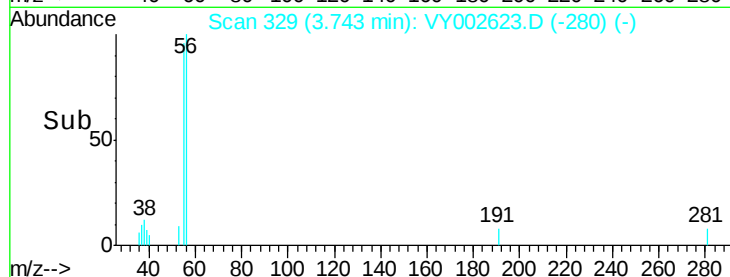
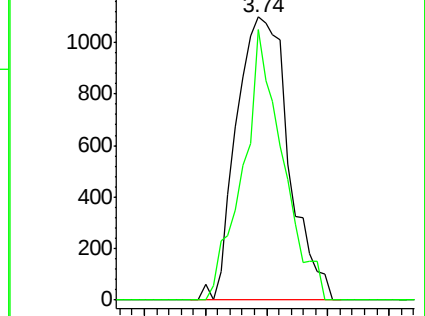
Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 4.600 ug/l

RT: 4.49 min Scan# 452

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

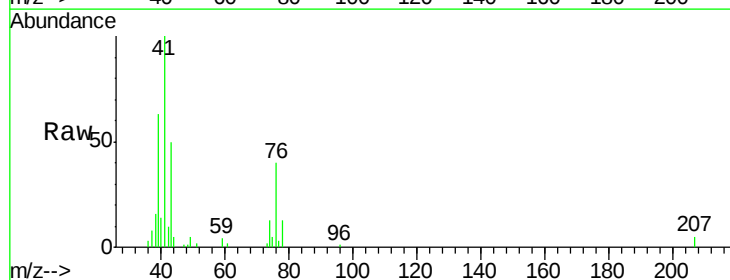
Tgt Ion: 41 Resp: 20405

Ion Ratio Lower Upper

41 100

39 64.1 51.8 77.6

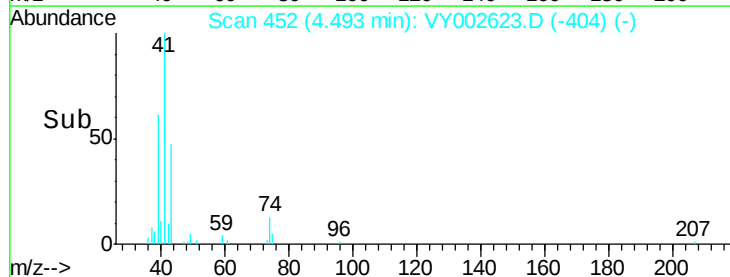
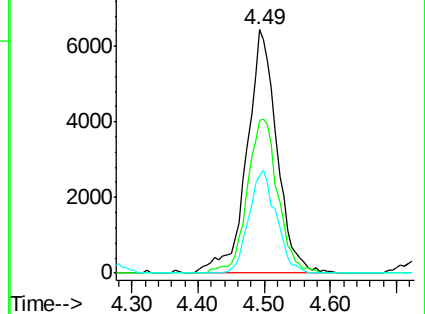
76 38.2 31.7 47.5

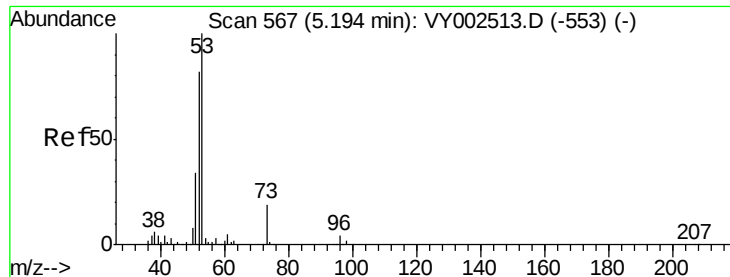


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 21.437 ug/l

RT: 5.19 min Scan# 566

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

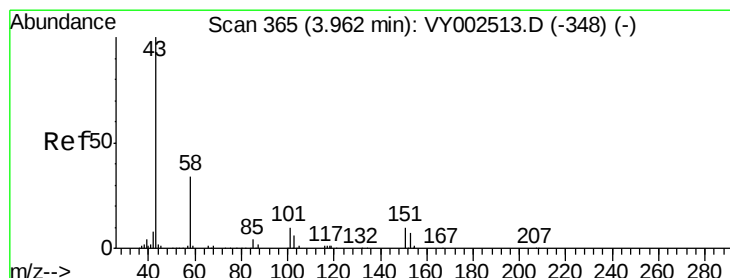
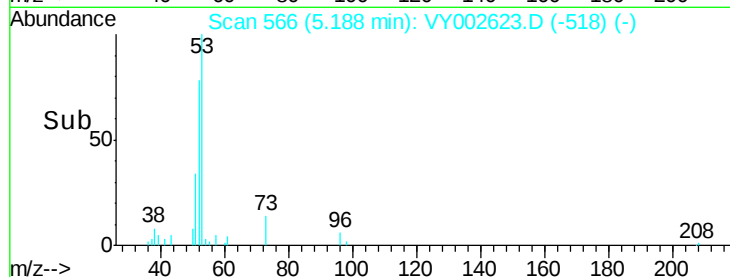
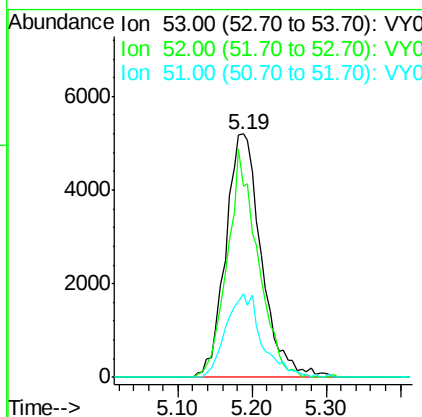
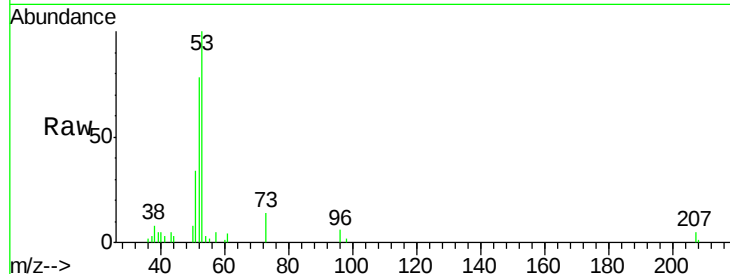
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	53	Resp:	17420
Ion Ratio	Lower	Upper	
53	100		
52	79.9	65.4	98.0
51	34.6	28.7	43.1

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



#16

Acetone

Concen: 20.952 ug/l

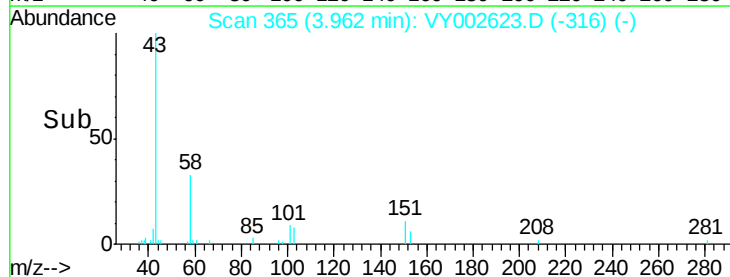
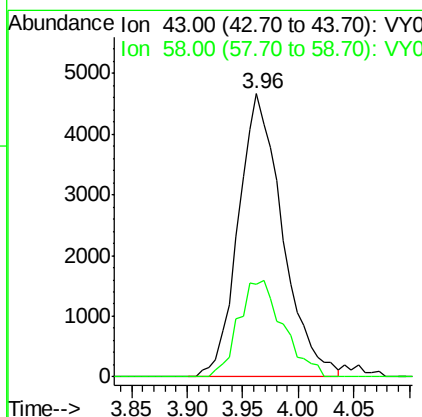
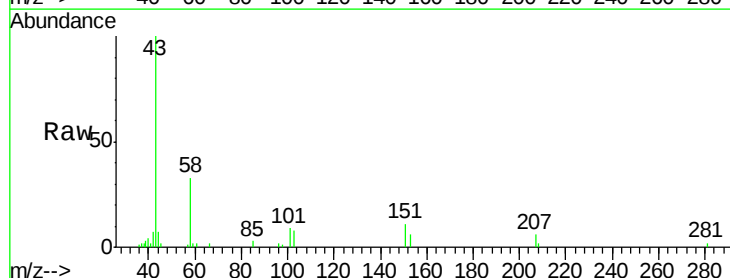
RT: 3.96 min Scan# 365

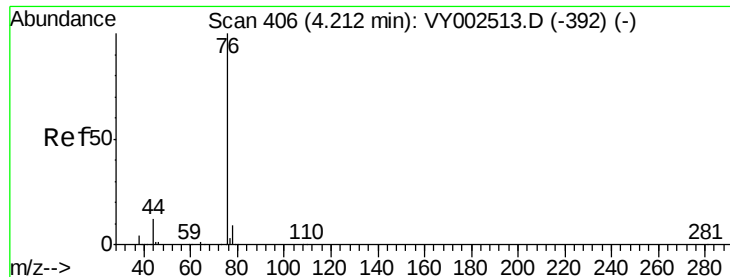
Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Tgt Ion:	43	Resp:	12858
Ion Ratio	Lower	Upper	
43	100		
58	32.8	26.9	40.3





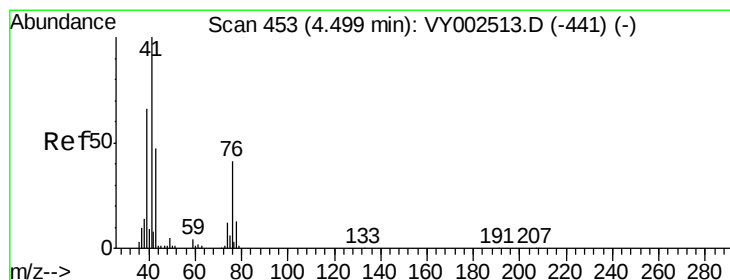
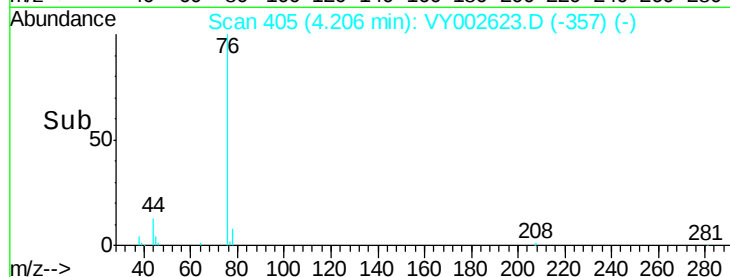
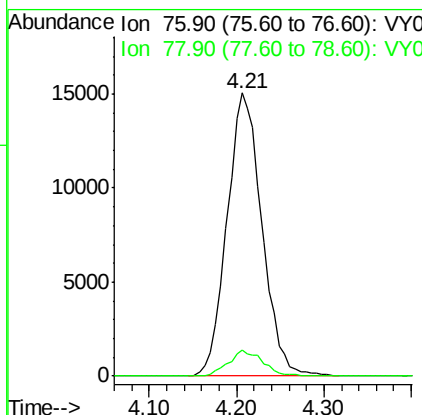
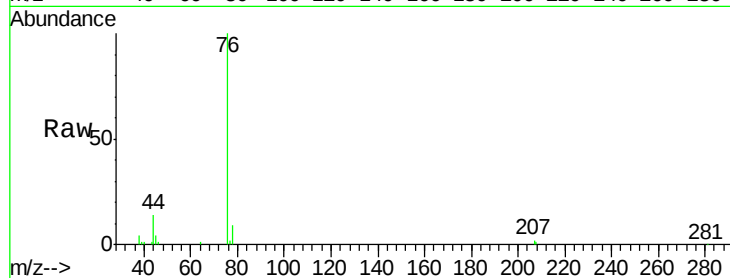
#17
Carbon Disulfide
Concen: 4.549 ug/l
RT: 4.21 min Scan# 405
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.2

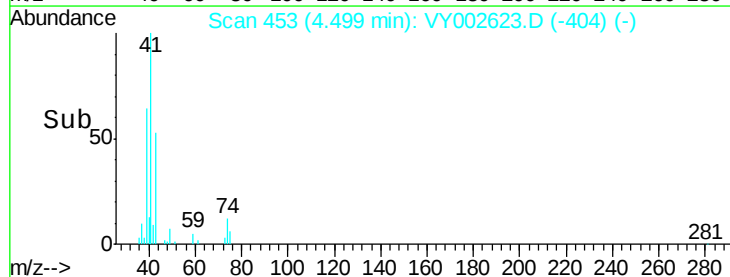
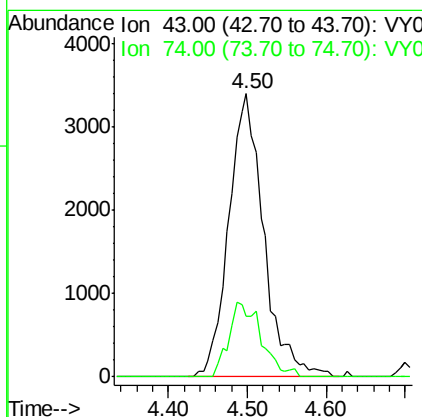
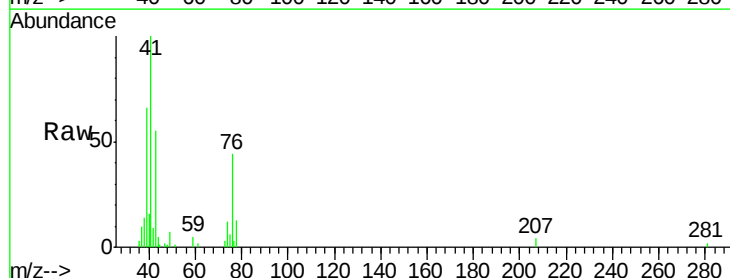
Manual Integrations
APPROVED

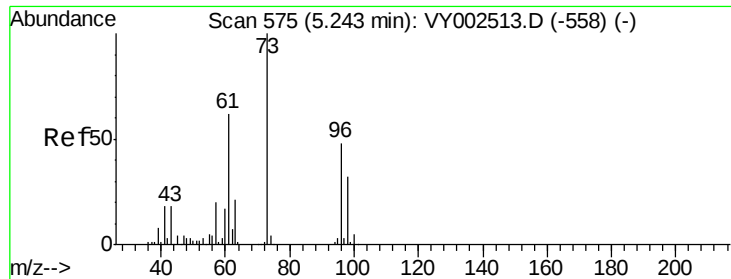
MMDadoda
5/8/2020 1:23:50 PM



#18
Methyl Acetate
Concen: 5.116 ug/l
RT: 4.50 min Scan# 453
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.3	21.2	31.8





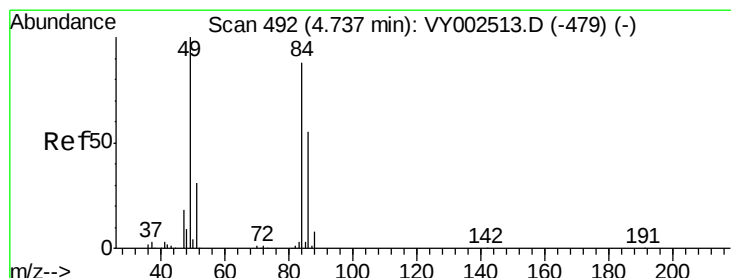
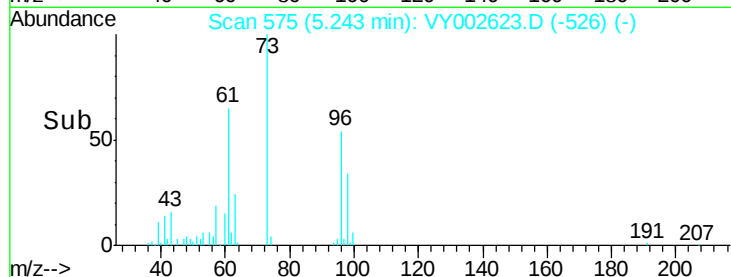
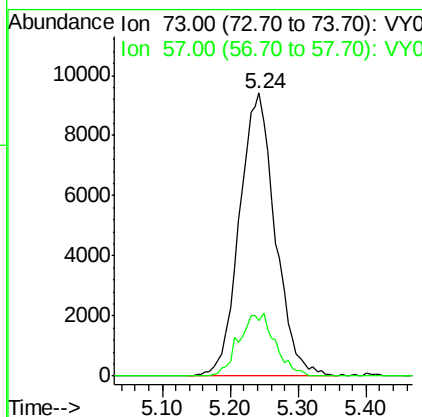
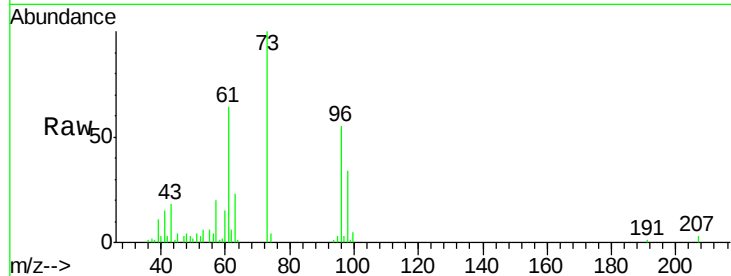
#19
Methvl tert-butvl Ether
Concen: 4.337 ug/l
RT: 5.24 min Scan# 575
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion: 73 Resp: 34446
Ion Ratio Lower Upper
73 100
57 19.6 16.3 24.5

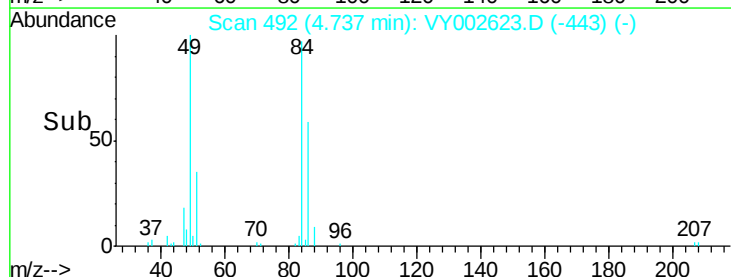
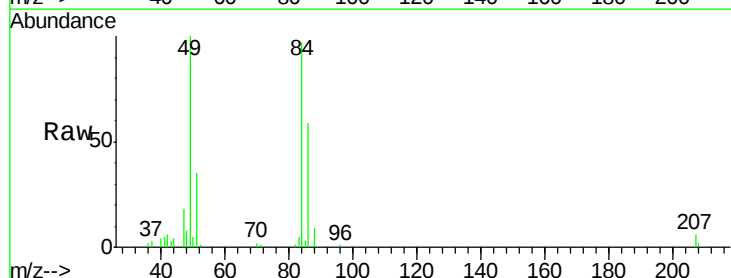
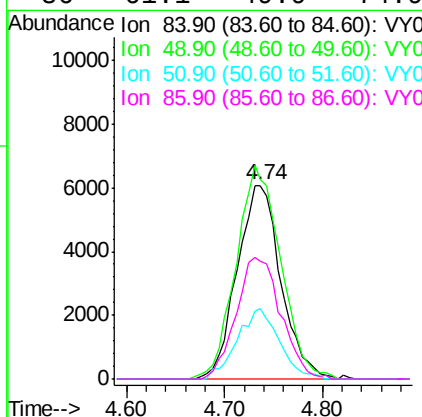
Manual Integrations
APPROVED

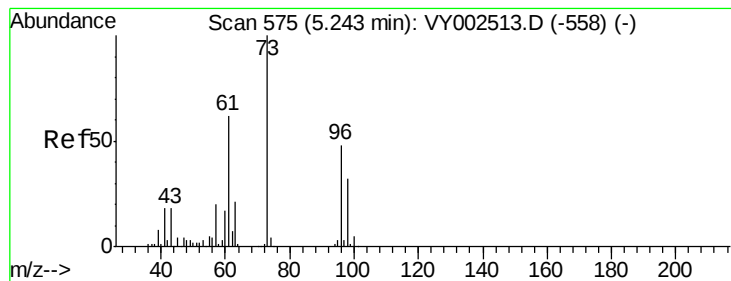
MMDadoda
5/8/2020 1:23:50 PM



#20
Methylene Chloride
Concen: 5.488 ug/l
RT: 4.74 min Scan# 492
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion: 84 Resp: 18832
Ion Ratio Lower Upper
84 100
49 103.6 90.5 135.7
51 36.7 28.3 42.5
86 61.1 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 4.720 ug/l

RT: 5.24 min Scan# 575

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

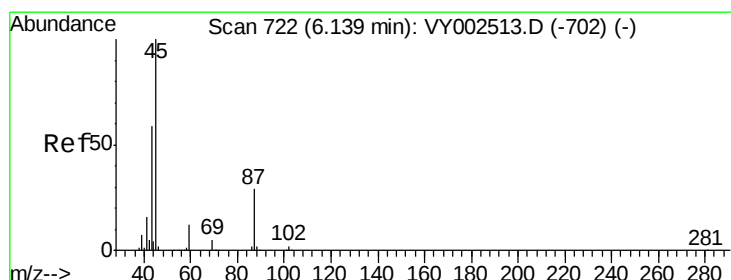
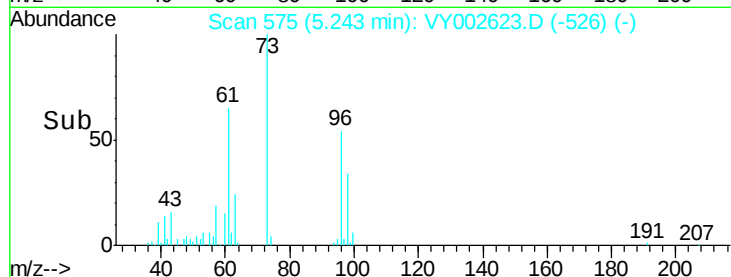
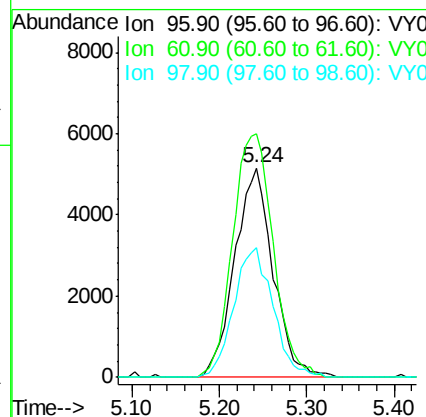
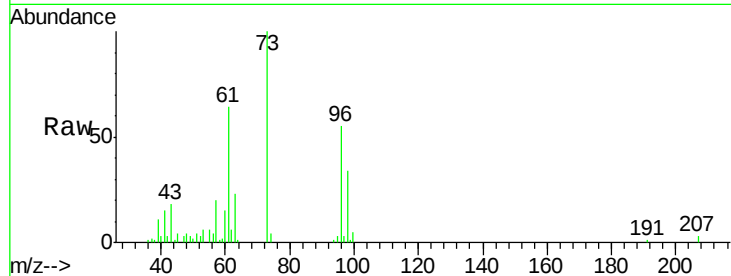
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	96	Resp:	15705
Ion	Ratio	Lower	Upper
96	100		
61	116.4	102.0	153.0
98	61.9	53.0	79.4

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



#22

Diisopropyl ether

Concen: 4.609 ug/l

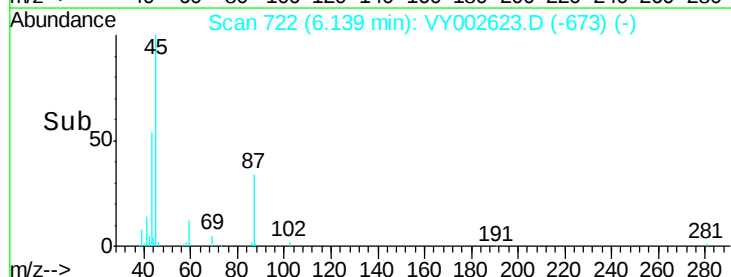
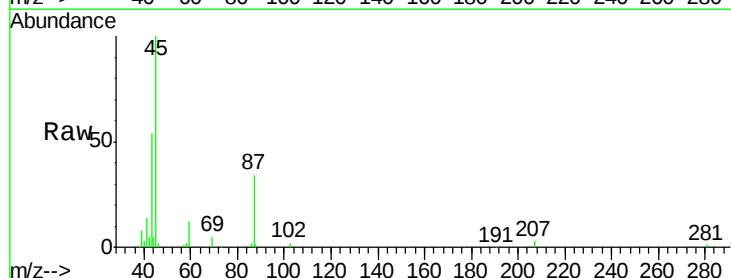
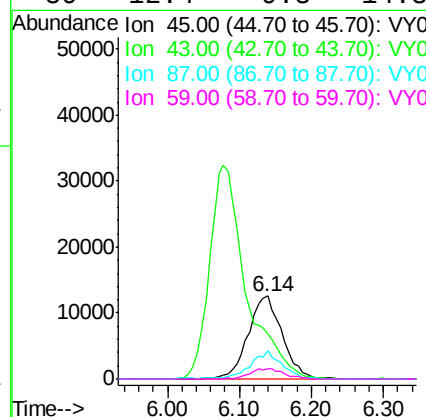
RT: 6.14 min Scan# 722

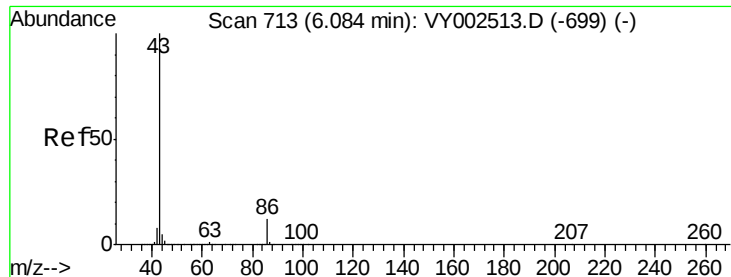
Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Tgt Ion:	45	Resp:	41371
Ion	Ratio	Lower	Upper
45	100		
43	52.8	47.4	71.0
87	33.5	24.0	36.0
59	12.4	9.8	14.8





#23

Vinyl Acetate

Concen: 20.172 ug/l

RT: 6.08 min Scan# 712

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 113861

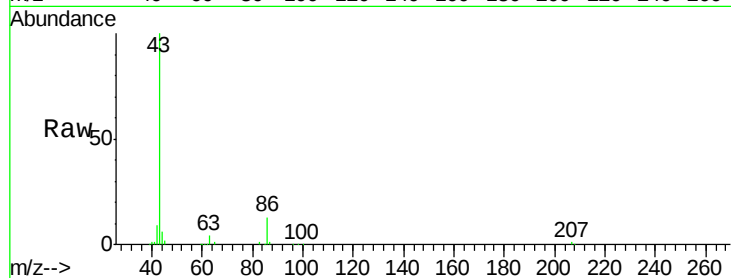
Ion Ratio Lower Upper

43 100

86 13.2 9.8 14.6

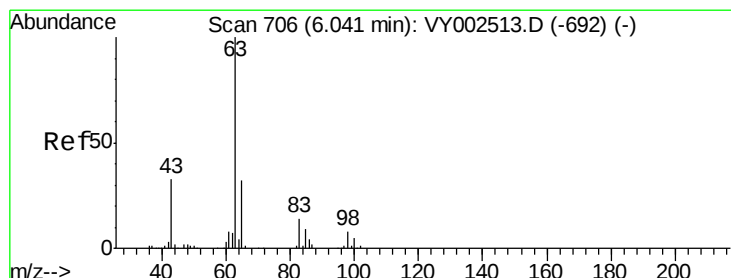
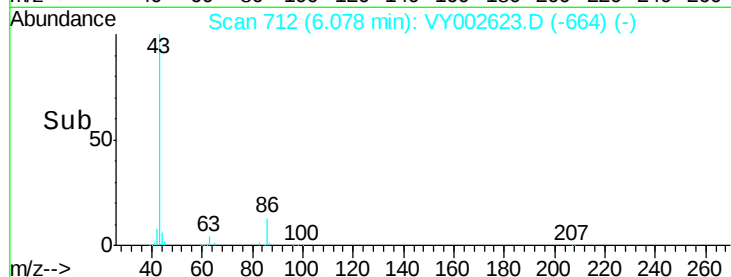
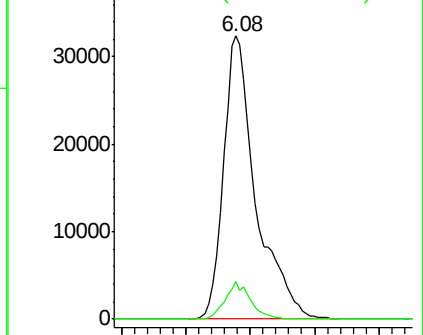
Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0



#24

1,1-Dichloroethane

Concen: 4.611 ug/l

RT: 6.04 min Scan# 705

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

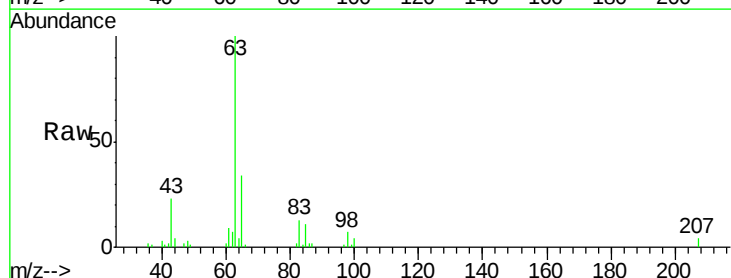
Tgt Ion: 63 Resp: 24482

Ion Ratio Lower Upper

63 100

98 7.0 3.9 11.7

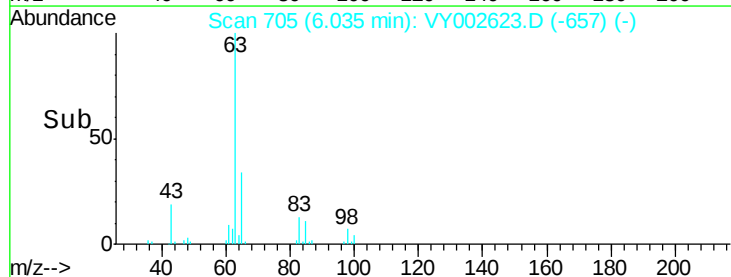
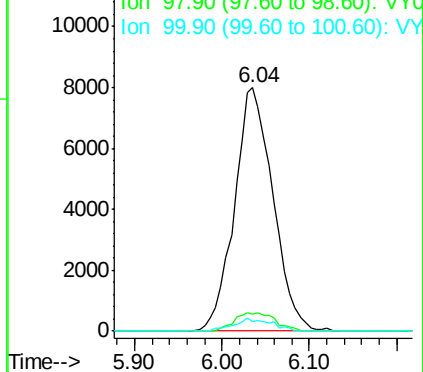
100 4.1 2.4 7.2

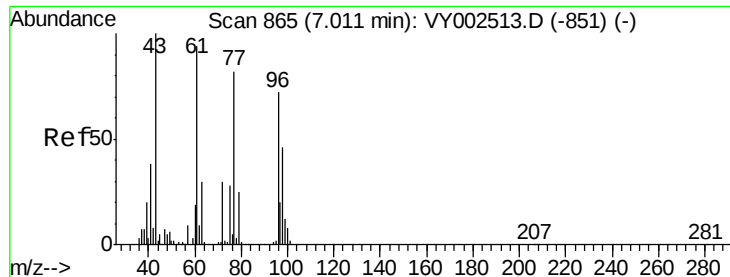


Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

Ion 99.90 (99.60 to 100.60): VY0





#25

2-Butanone

Concen: 21.150 ug/l

RT: 7.01 min Scan# 865

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 21246

Ion Ratio Lower Upper

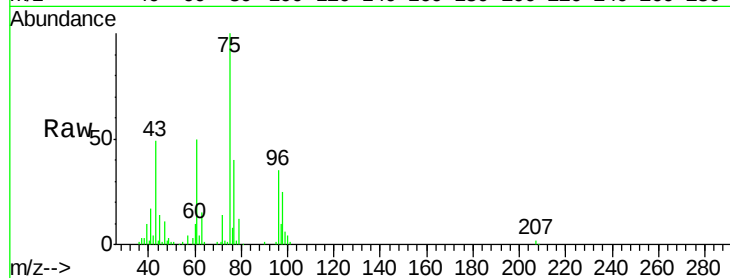
43 100

72 28.4 24.1 36.1

Manual Integrations
APPROVED

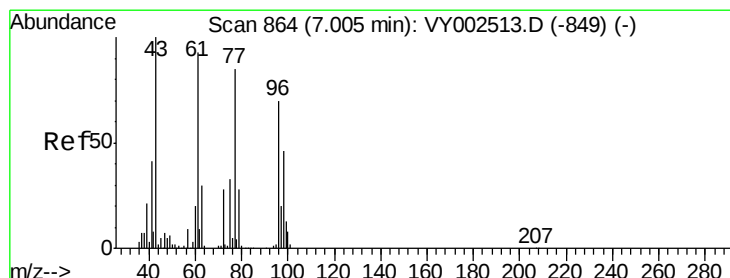
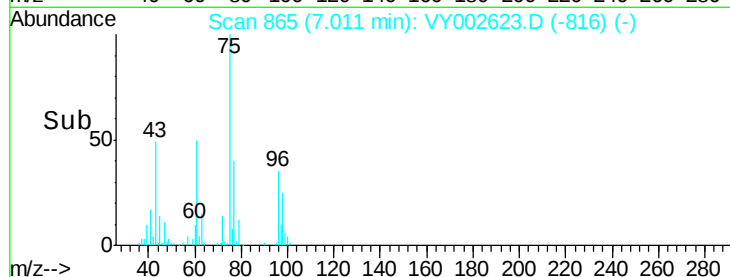
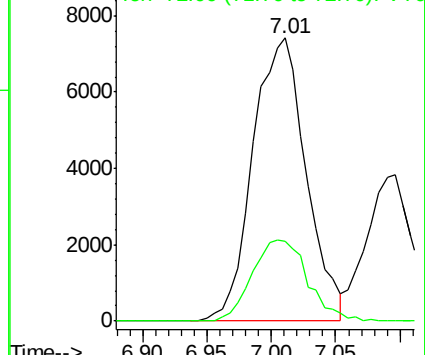
MMDadoda

5/8/2020 1:23:50 PM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#26

2,2-Dichloropropane

Concen: 4.692 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.01 min

Lab File: VY002623.D

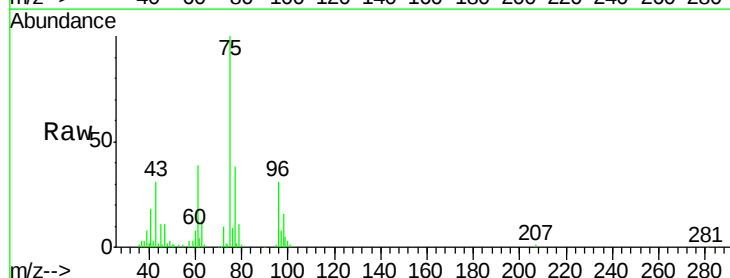
Acq: 07 May 2020 12:08

Tgt Ion: 77 Resp: 23679

Ion Ratio Lower Upper

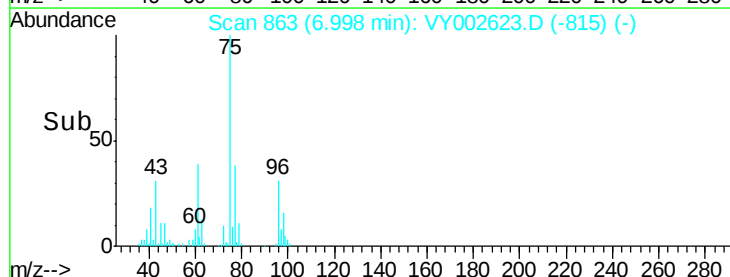
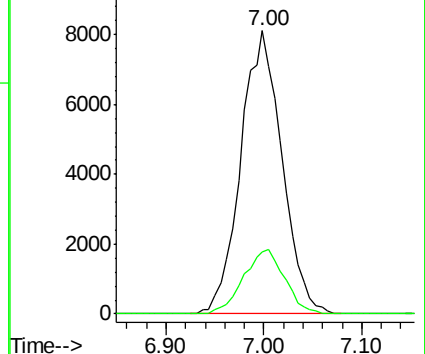
77 100

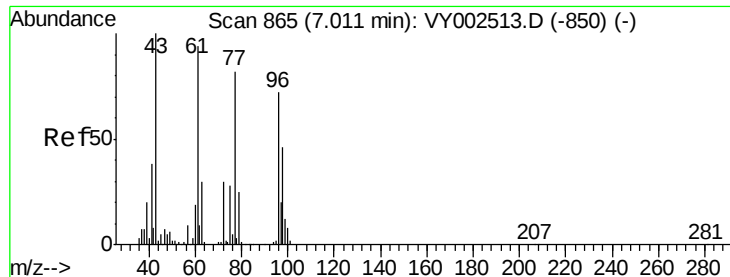
97 22.6 11.9 35.5



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0





#27

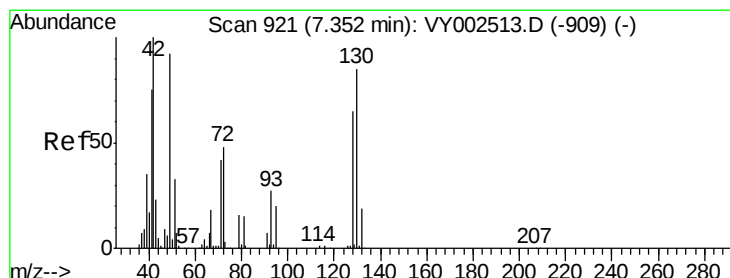
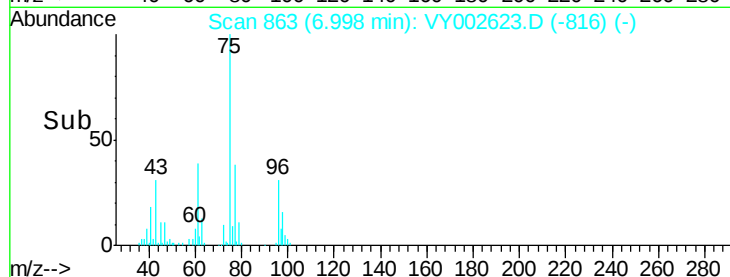
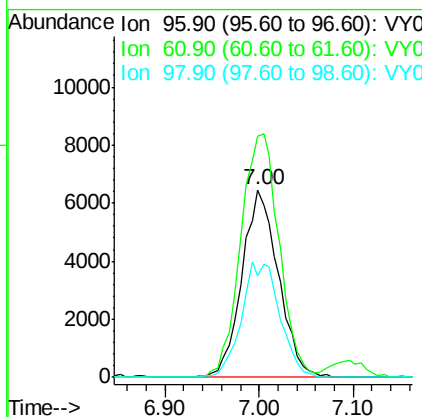
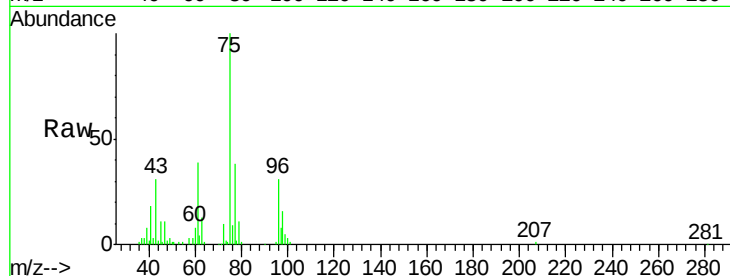
cis-1,2-Dichloroethene
Concen: 4.753 ug/l
RT: 7.00 min Scan# 863
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.8	0.0	266.6
98	64.3	0.0	129.2

Manual Integrations
APPROVED

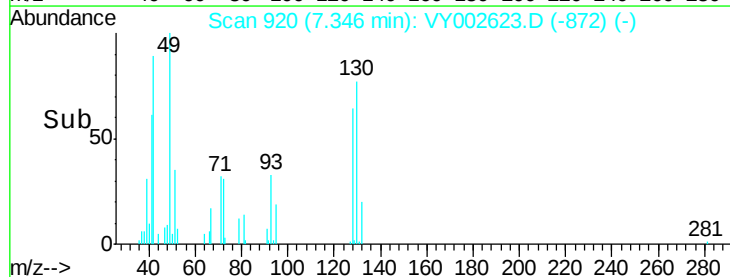
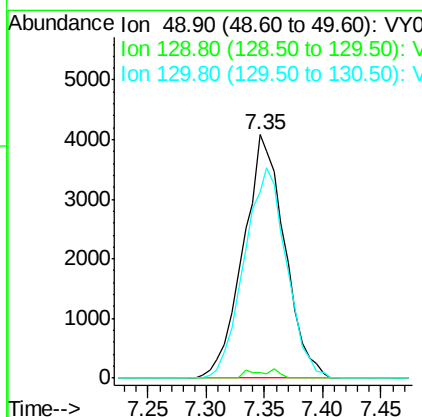
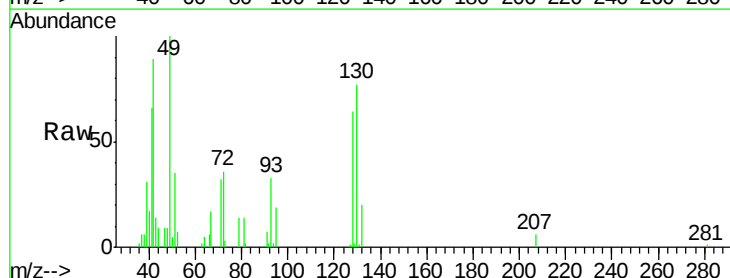
MMDadoda
5/8/2020 1:23:50 PM

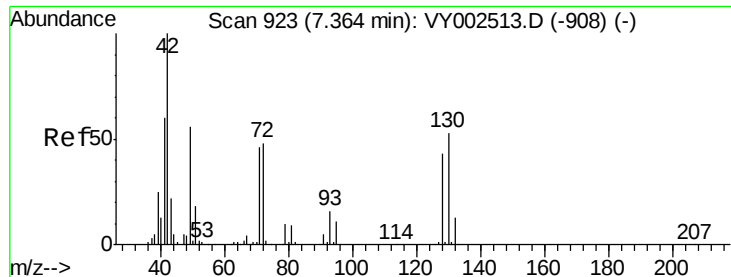


#28

Bromochloromethane
Concen: 4.647 ug/l
RT: 7.35 min Scan# 920
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	4.8
130	88.2	72.5	108.7





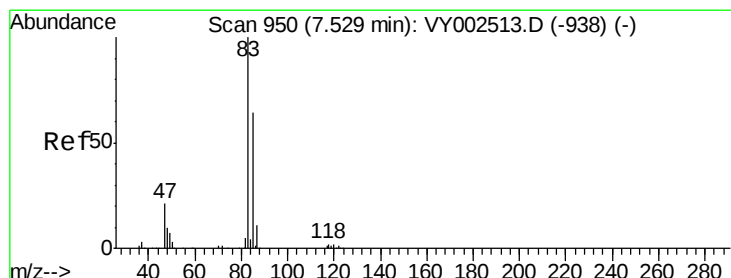
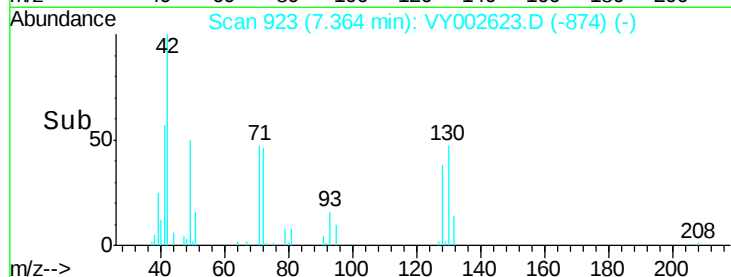
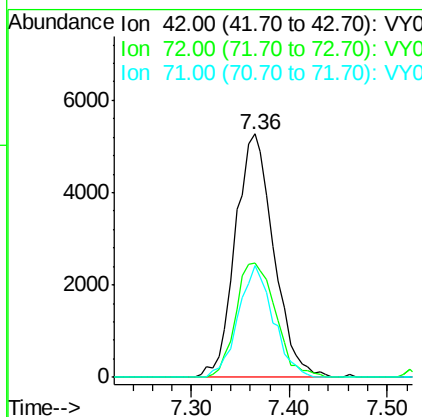
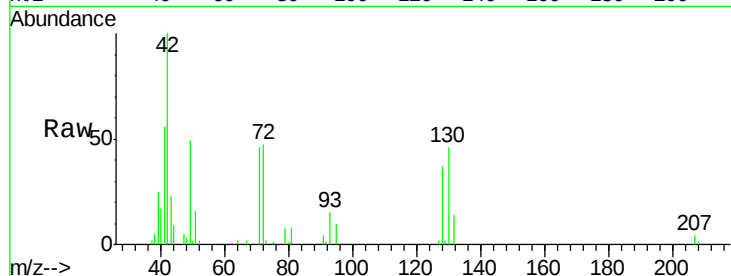
#29
Tetrahydrofuran
Concen: 21.538 ug/l
RT: 7.36 min Scan# 923
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.7	37.4	56.2
71	42.1	35.0	52.4

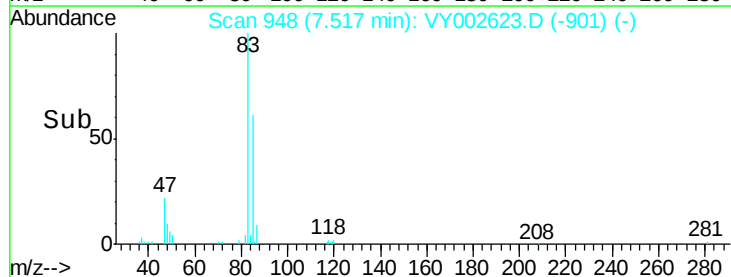
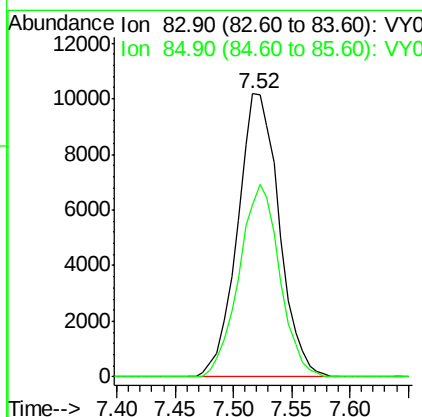
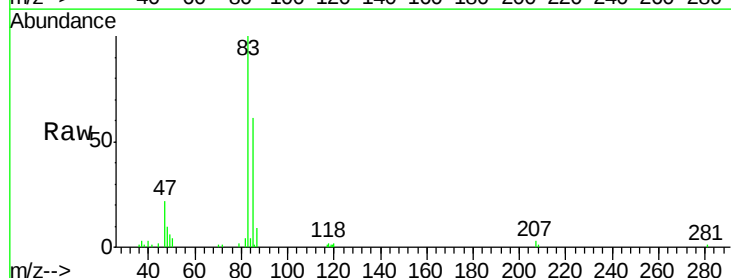
Manual Integrations
APPROVED

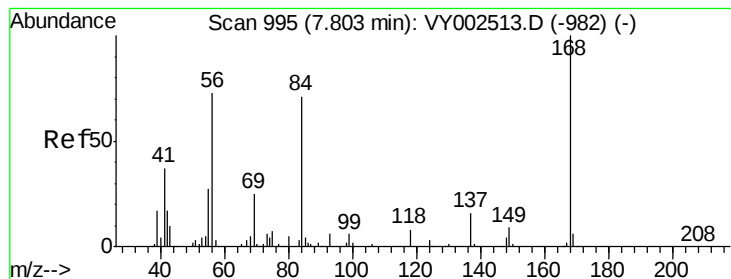
MMDadoda
5/8/2020 1:23:50 PM



#30
Chloroform
Concen: 4.577 ug/l
RT: 7.52 min Scan# 948
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.6	51.5	77.3





#31

Cyclohexane

Concen: 5.472 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

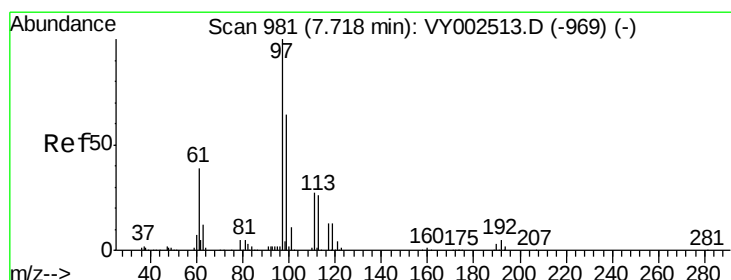
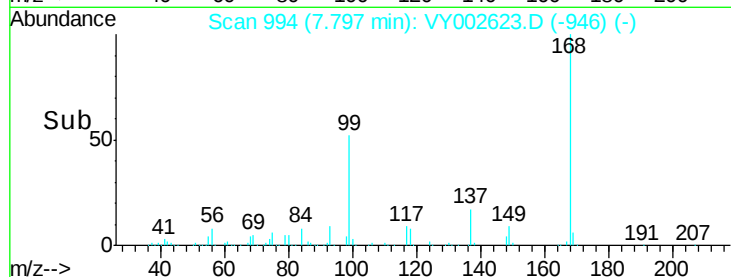
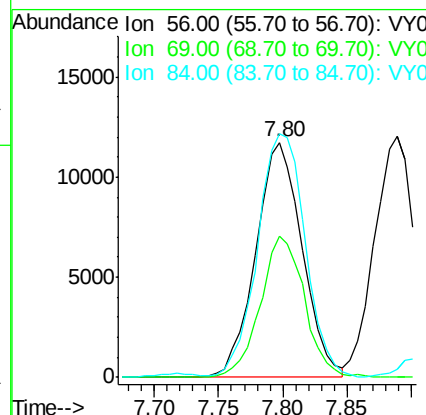
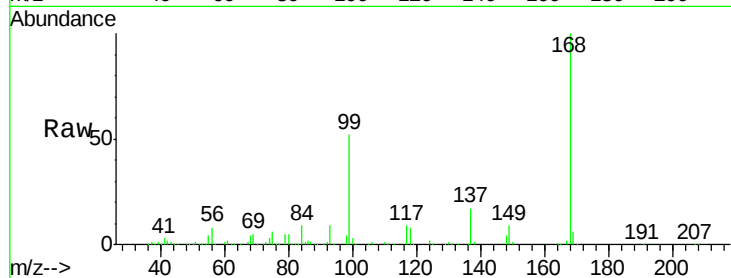
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion	56	69	84	Resp	29247	Lower	Upper
Ion Ratio	100	60.0	102.7				
		27.6	77.7				
		41.4#	116.5				

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



#32

1,1,1-Trichloroethane

Concen: 4.582 ug/l

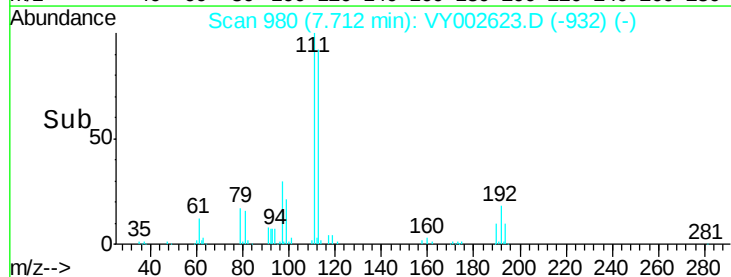
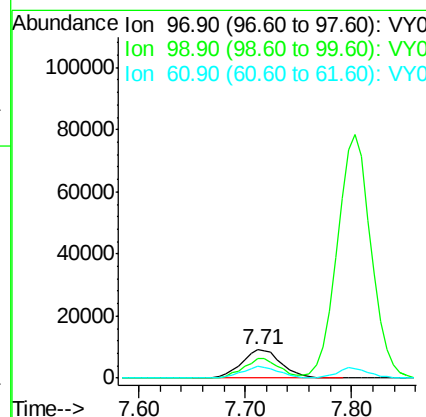
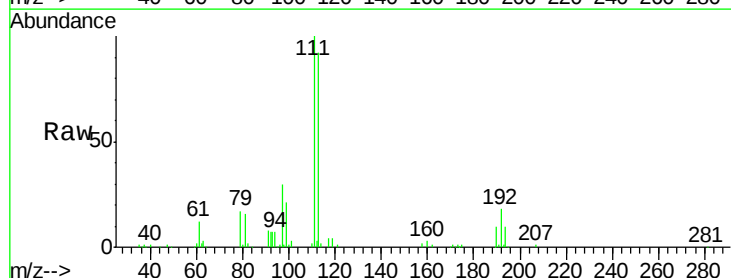
RT: 7.71 min Scan# 980

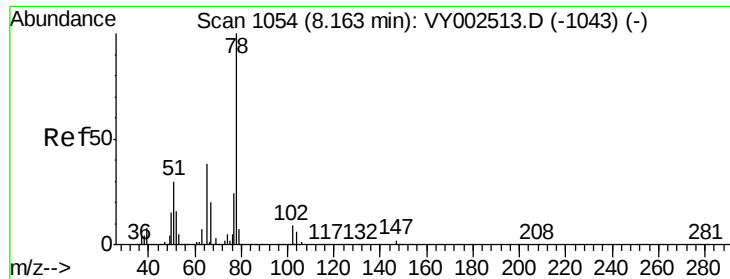
Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Tgt Ion	97	99	61	Resp	23511	Lower	Upper
Ion Ratio	100	62.7	39.1				
		51.9	31.0				
		77.9	46.6				





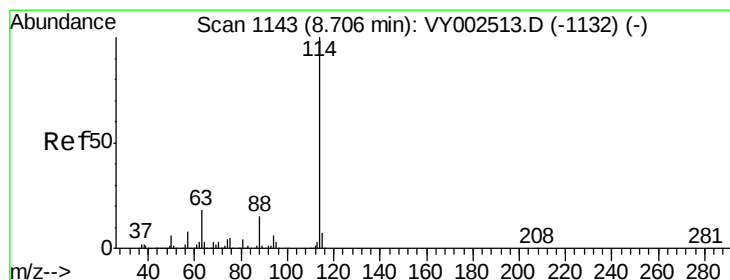
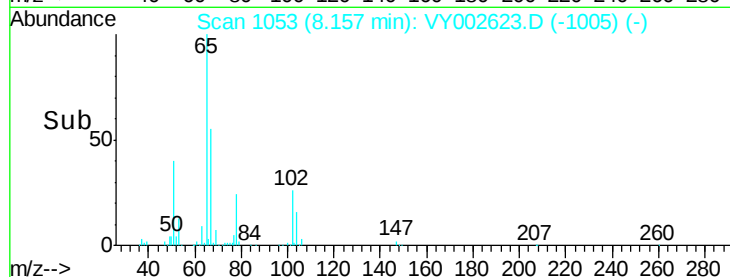
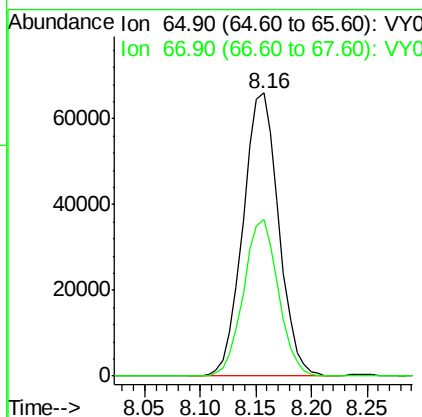
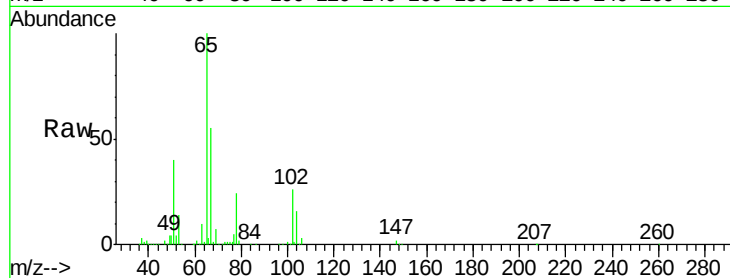
#33
 1,2-Dichloroethane-d4
 Concen: 49.489 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.0	0.0	107.2	

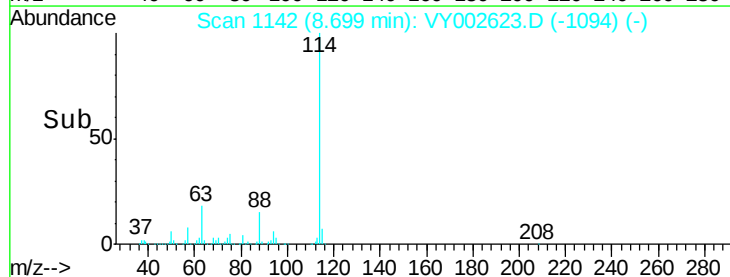
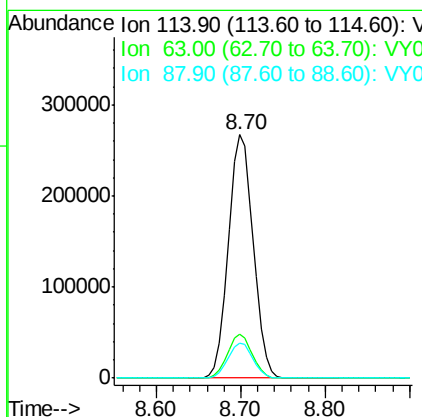
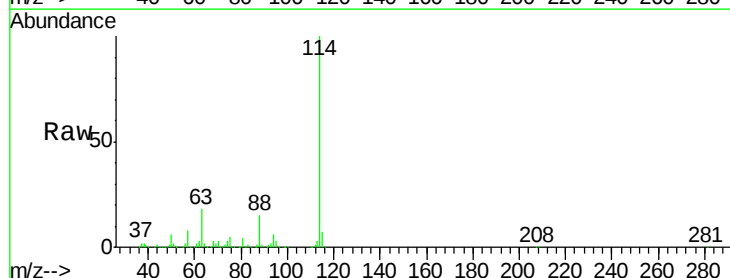
Manual Integrations
 APPROVED

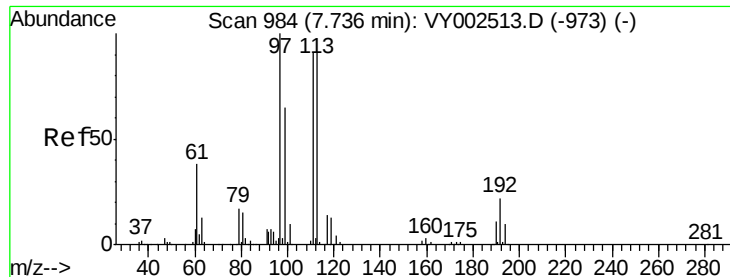
MMDadoda
 5/8/2020 1:23:50 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	17.9	0.0	36.4	
88	14.6	0.0	29.6	





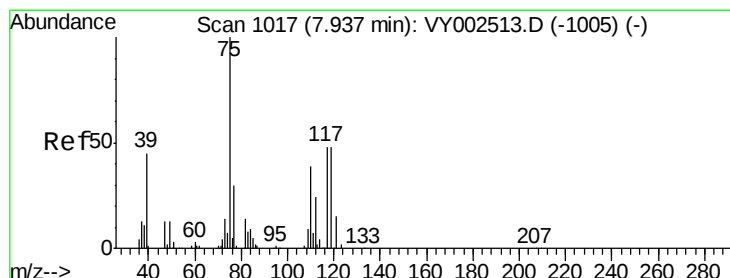
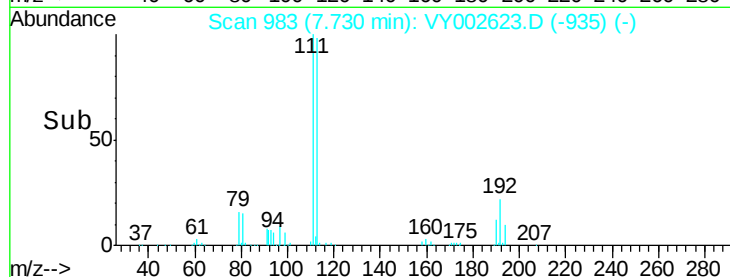
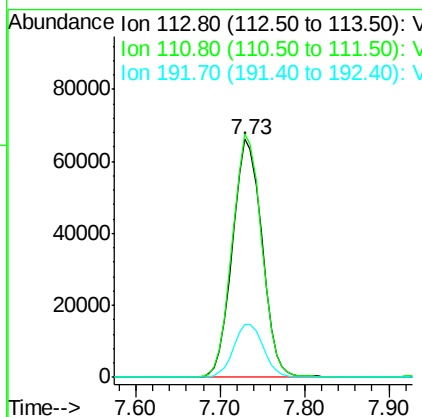
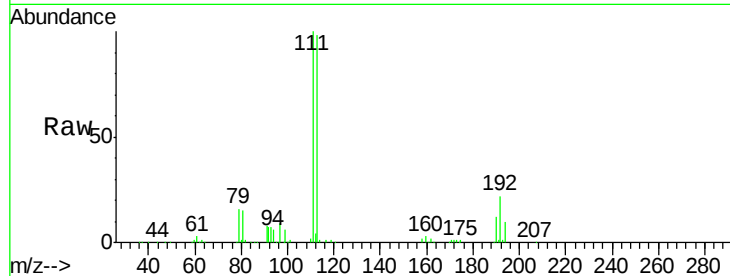
#35
 Dibromofluoromethane
 Concen: 51.467 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.8	122.6
192	22.5	18.2	27.4

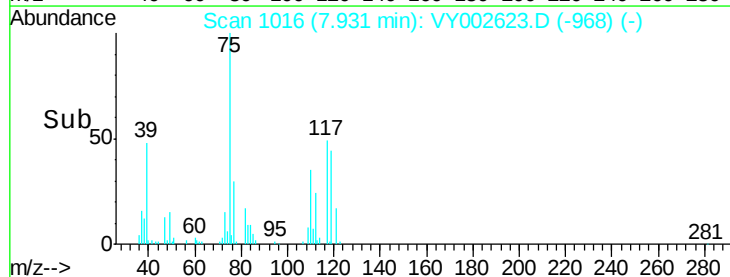
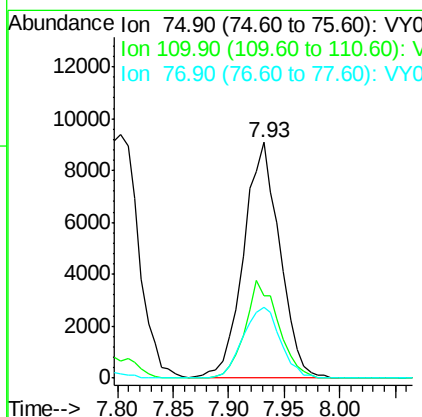
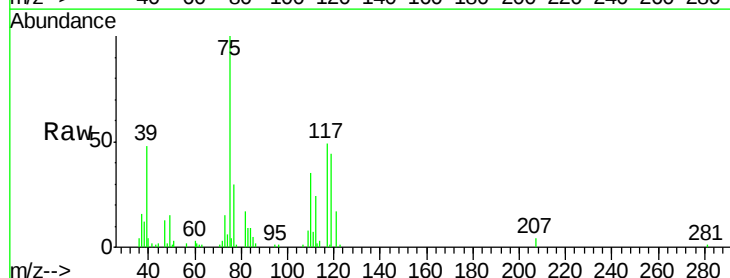
Manual Integrations
 APPROVED

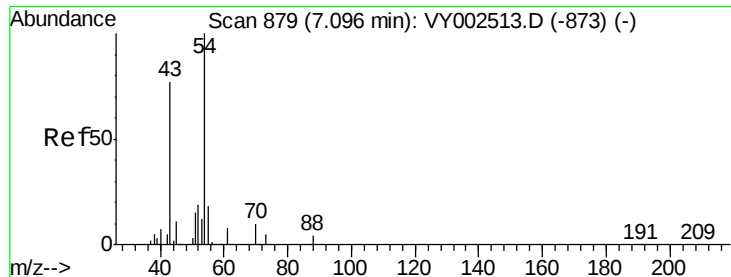
MMDadoda
 5/8/2020 1:23:50 PM



#36
 1,1-Dichloropropene
 Concen: 4.593 ug/l
 RT: 7.93 min Scan# 1016
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.1	19.1	57.3
77	31.1	24.6	37.0





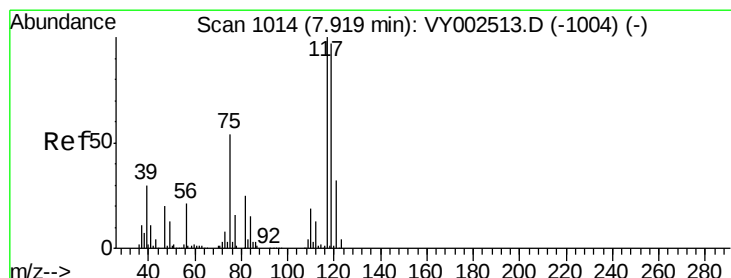
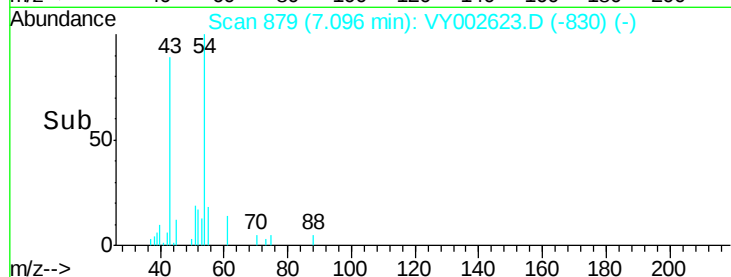
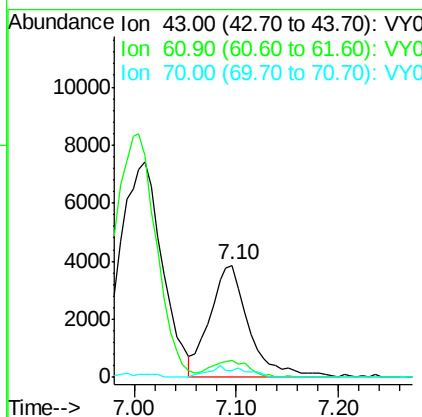
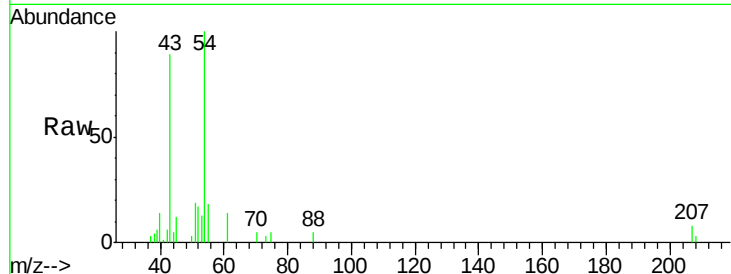
#37
Ethyl Acetate
Concen: 4.480 ug/l
RT: 7.10 min Scan# 879
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.6	17.4
70	5.6	9.0	13.6

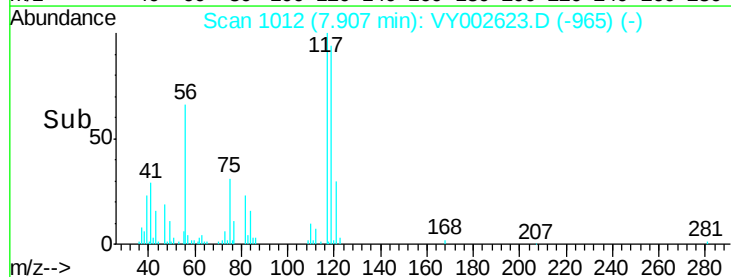
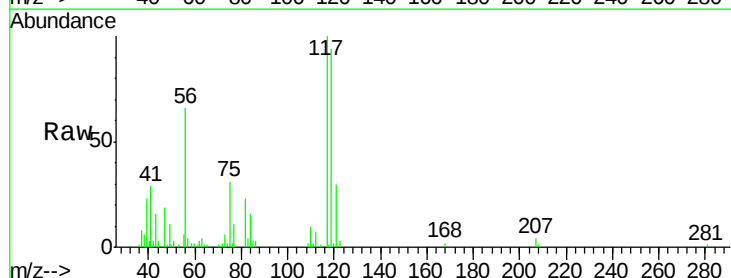
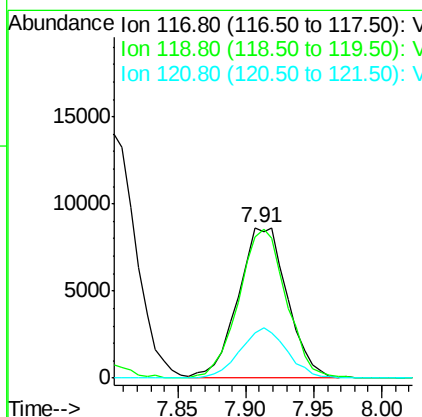
Manual Integrations
APPROVED

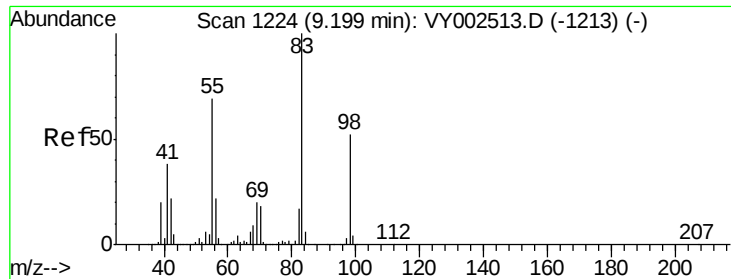
MMDadoda
5/8/2020 1:23:50 PM



#38
Carbon Tetrachloride
Concen: 4.470 ug/l
RT: 7.91 min Scan# 1012
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.0	77.1	115.7
121	30.1	25.2	37.8





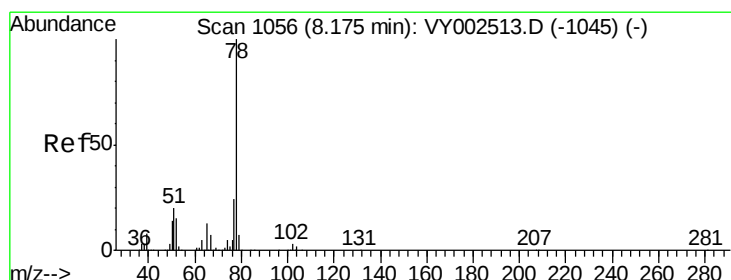
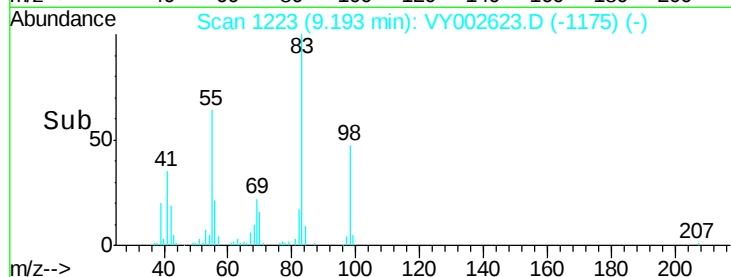
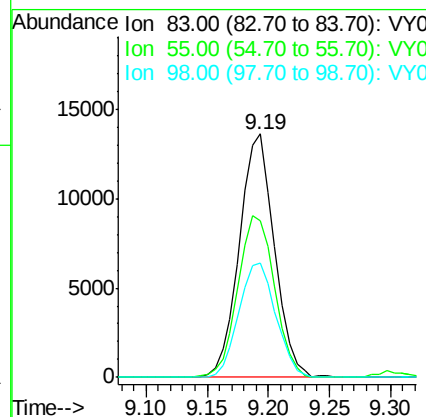
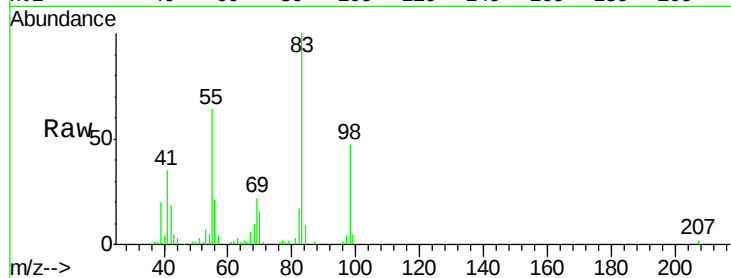
#39
Methvlcvclohexane
Concen: 4.573 ug/l
RT: 9.19 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	64.2	55.4	83.0
98	46.9	41.3	61.9

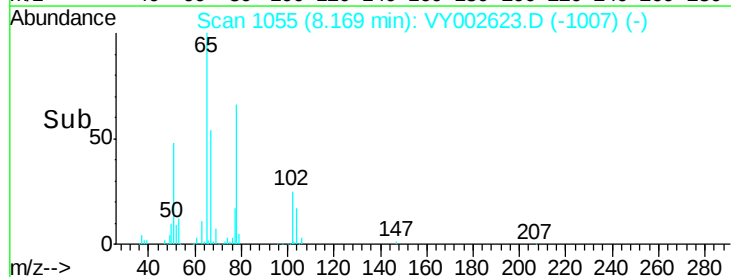
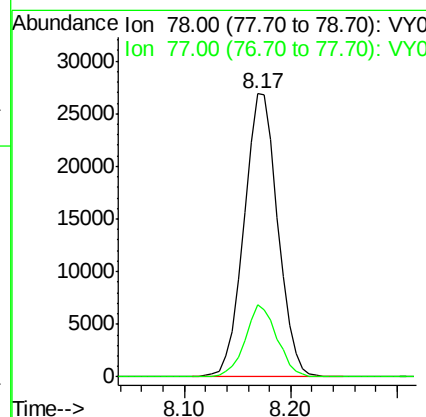
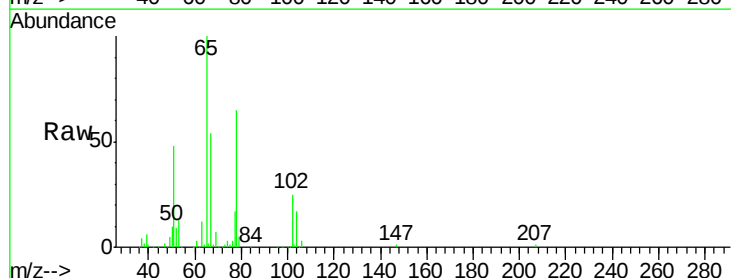
Manual Integrations
APPROVED

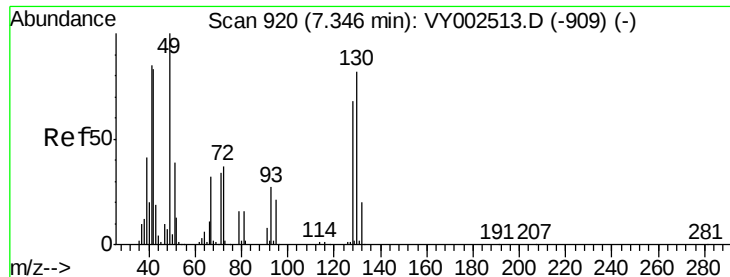
MMDadoda
5/8/2020 1:23:50 PM



#40
Benzene
Concen: 4.633 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.5	19.2	28.8





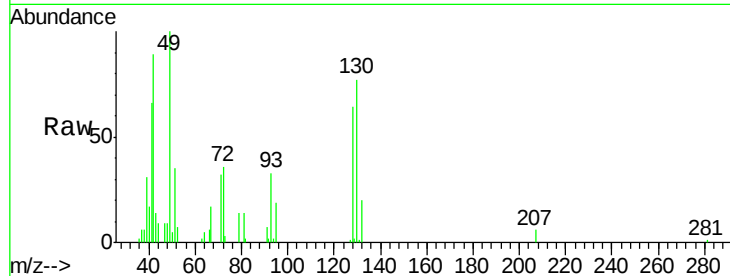
#41
Methacrylonitrile
Concen: 5.135 ug/l m
RT: 7.35 min Scan# 920
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

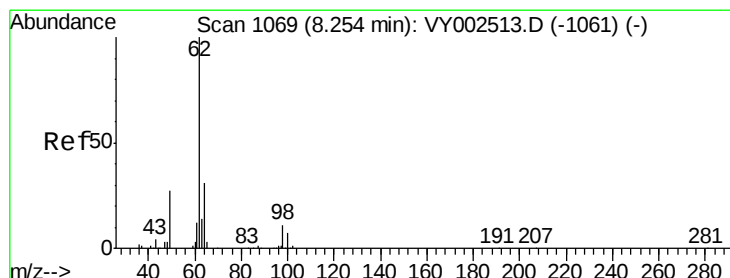
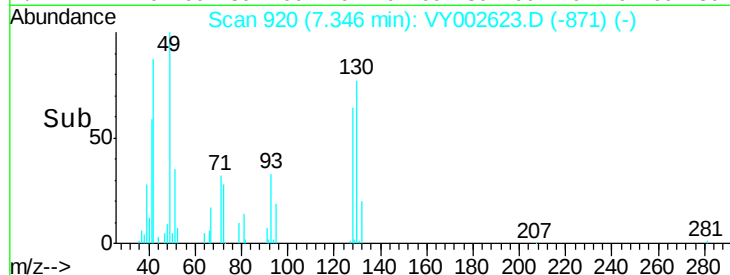
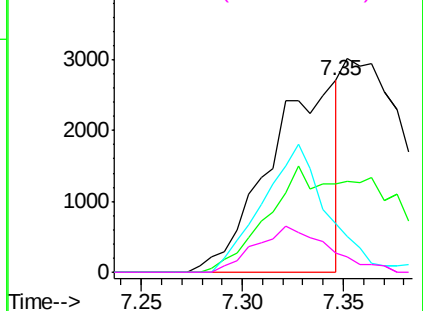
Tot Ion	41	Resp	6356
Ion	Ratio	Lower	Upper
41	100		
39	0.0	83.1	124.7#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM

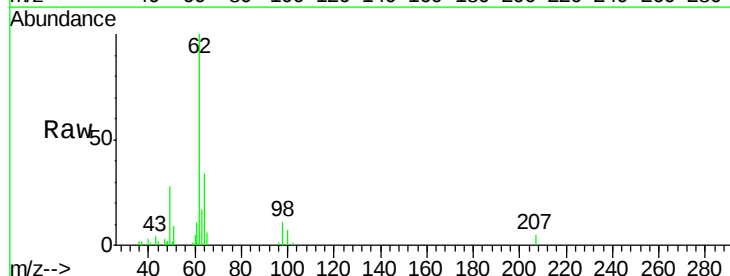


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0

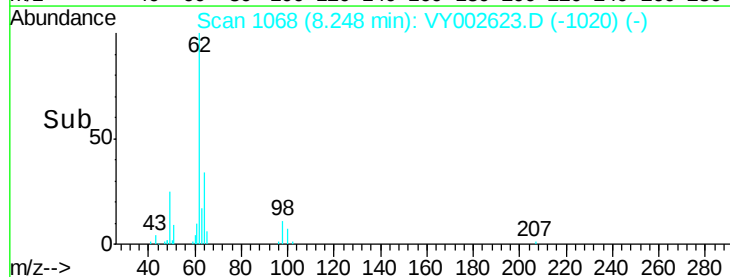
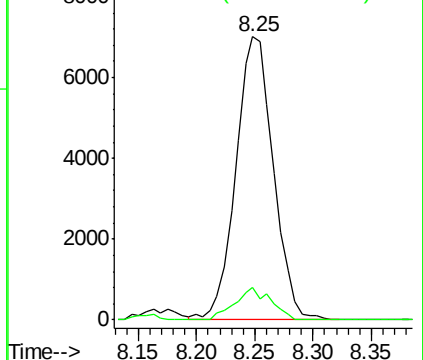


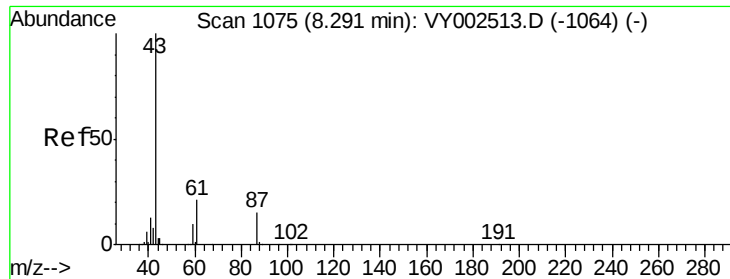
#42
1,2-Dichloroethane
Concen: 4.325 ug/l
RT: 8.25 min Scan# 1068
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	62	Resp	15696
Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.0



Abundance Ion 61.90 (61.60 to 62.60): VY0
Ion 97.90 (97.60 to 98.60): VY0





#43

Isopropyl Acetate

Concen: 4.154 ug/l

RT: 8.28 min Scan# 1074

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

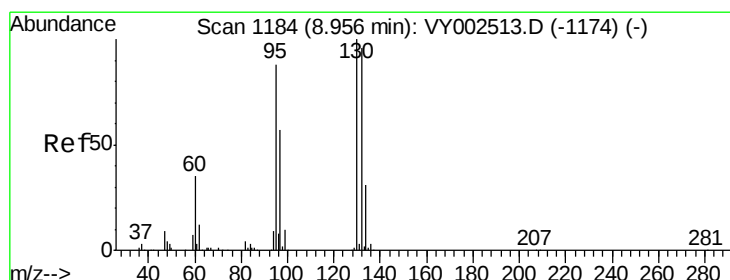
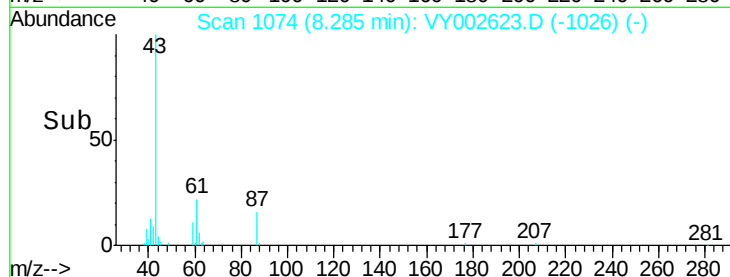
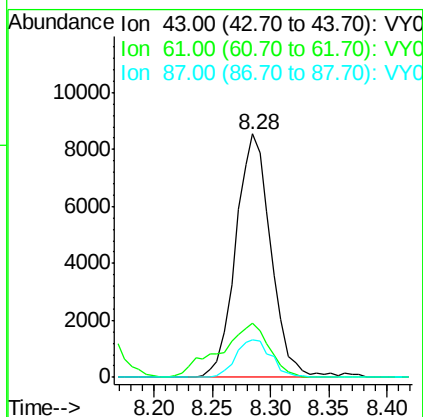
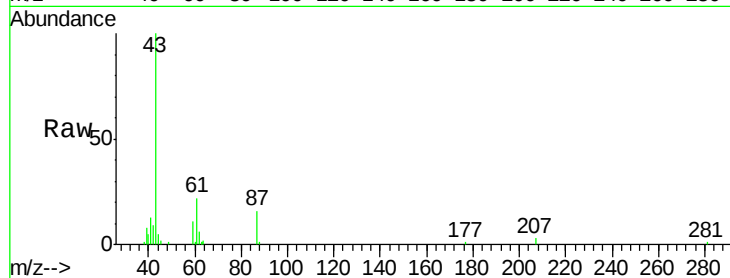
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	43	Resp:	17929
Ion	Ratio	Lower	Upper
43	100		
61	30.9	24.8	37.2
87	15.4	12.2	18.2

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



#44

Trichloroethene

Concen: 4.696 ug/l

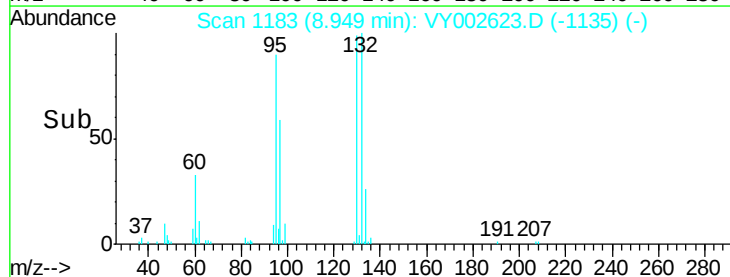
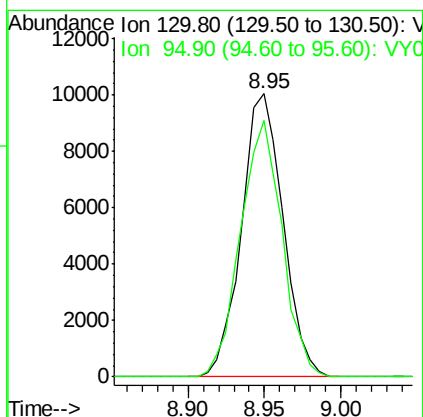
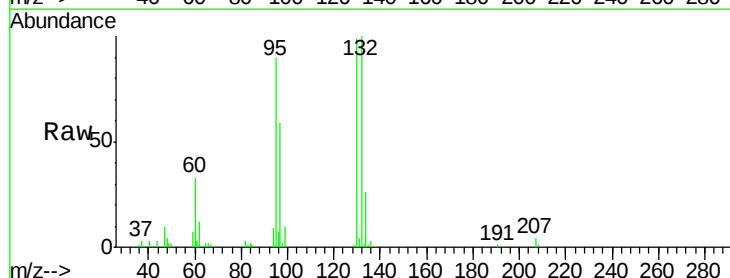
RT: 8.95 min Scan# 1183

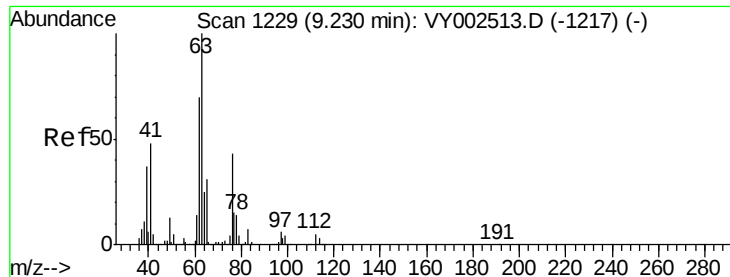
Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Tgt Ion:	130	Resp:	18988
Ion	Ratio	Lower	Upper
130	100		
95	90.5	0.0	175.8





#45

1,2-Dichloropropane

Concen: 4.601 ug/l

RT: 9.22 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 63 Resp: 14366

Ion Ratio Lower Upper

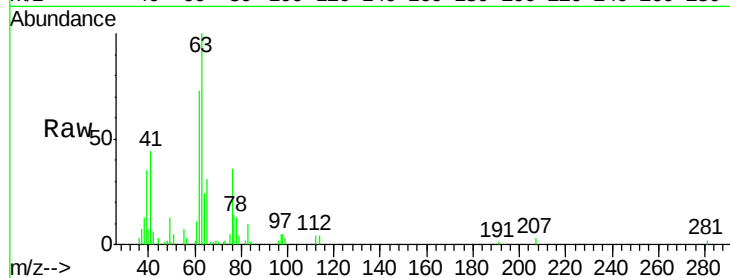
63 100

65 31.4 24.5 36.7

Manual Integrations
APPROVED

MMDadoda

5/8/2020 1:23:50 PM



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 64.90 (64.60 to 65.60): VY0

9.22

8000

6000

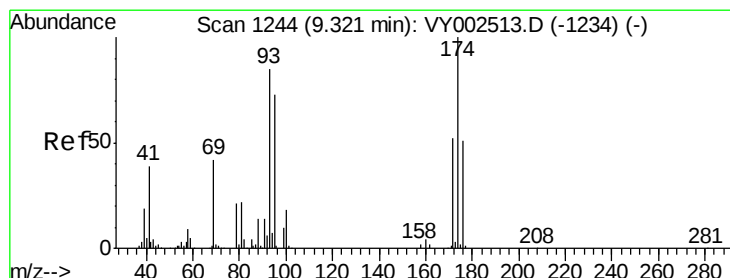
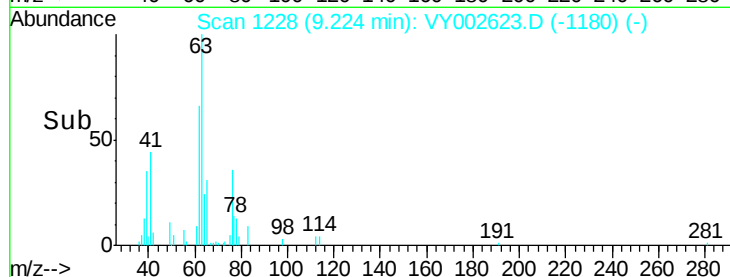
4000

2000

0

9.15 9.20 9.25 9.30

Time-->



#46

Dibromomethane

Concen: 4.249 ug/l

RT: 9.32 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

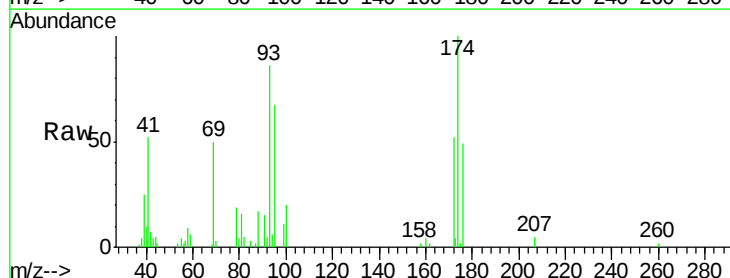
Tgt Ion: 93 Resp: 7633

Ion Ratio Lower Upper

93 100

95 83.2 67.0 100.4

174 120.2 92.7 139.1



Abundance Ion 92.80 (92.50 to 93.50): VY0

Ion 94.80 (94.50 to 95.50): VY0

Ion 173.70 (173.40 to 174.40): V

9.32

6000

5000

4000

3000

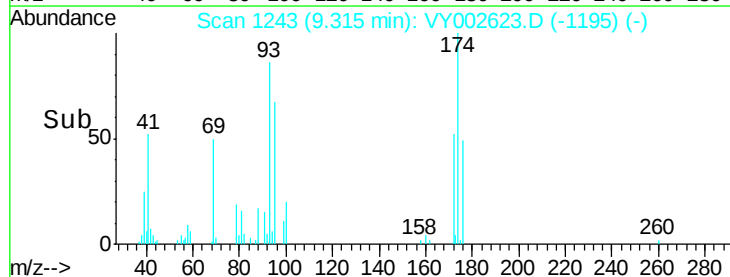
2000

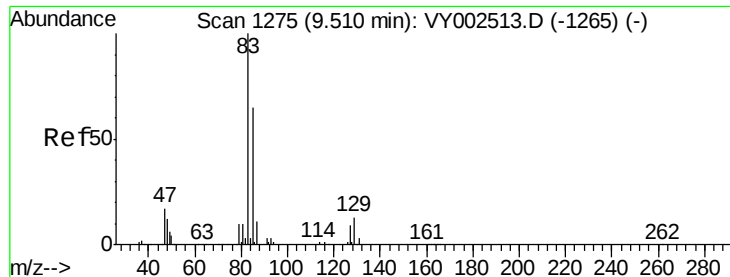
1000

0

9.25 9.30 9.35

Time-->





#47

Bromodichloromethane

Concen: 4.220 ug/l

RT: 9.50 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

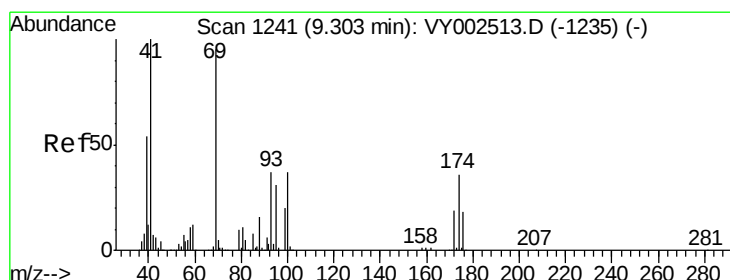
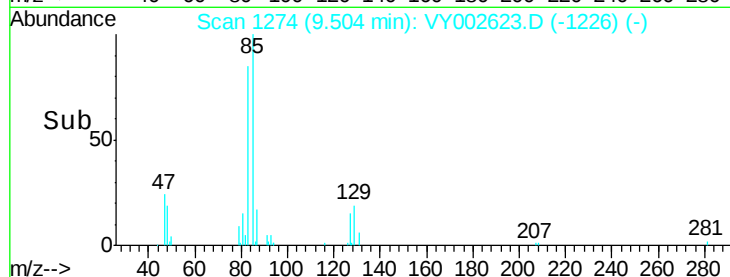
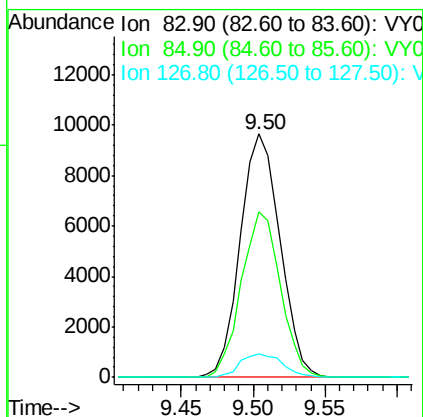
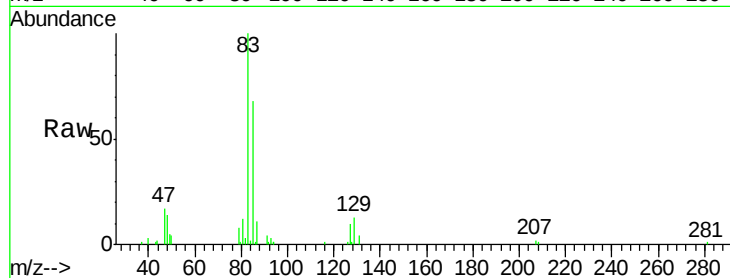
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	83	Resp:	18437
Ion	Ratio	Lower	Upper
83	100		
85	68.0	51.8	77.8
127	9.9	7.4	11.0

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



#48

Methyl methacrylate

Concen: 3.964 ug/l

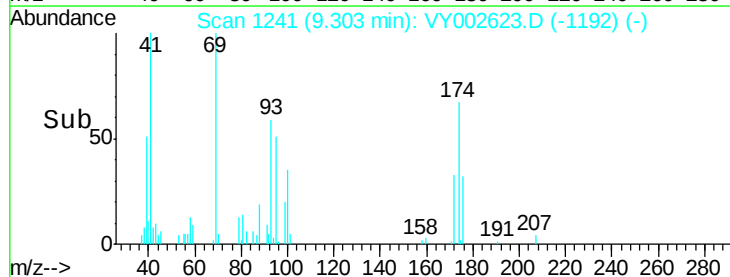
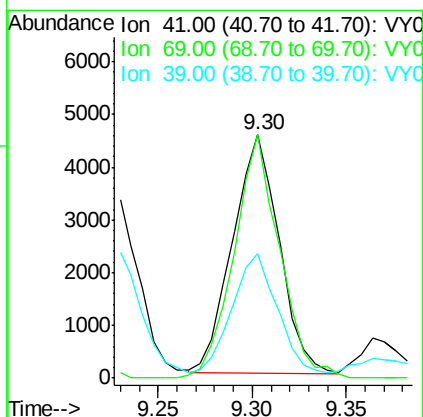
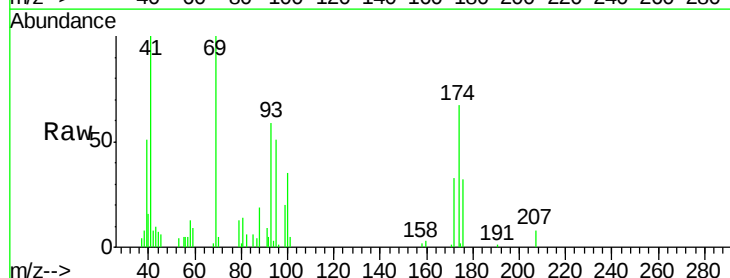
RT: 9.30 min Scan# 1241

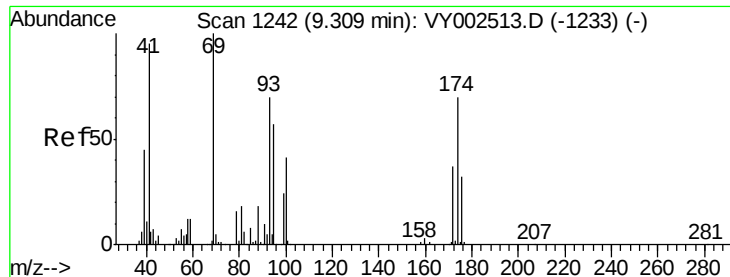
Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Tgt Ion:	41	Resp:	7742
Ion	Ratio	Lower	Upper
41	100		
69	99.4	76.2	114.4
39	49.3	42.7	64.1





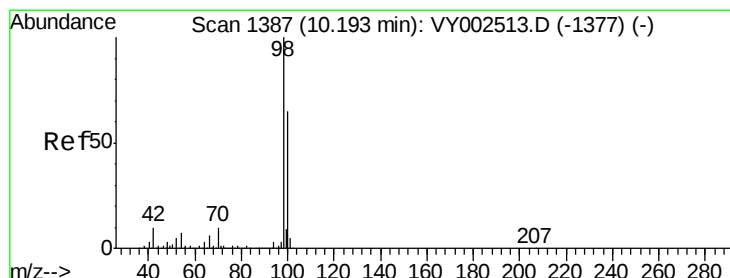
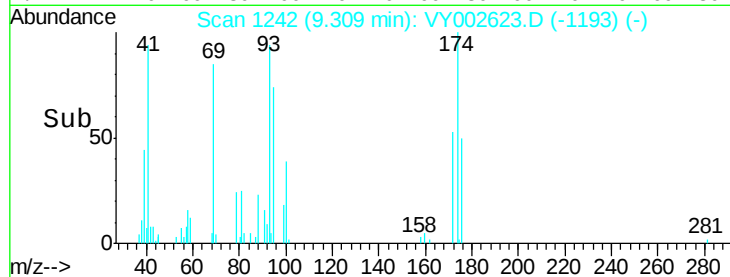
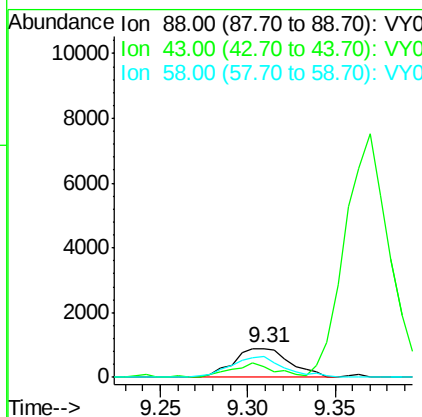
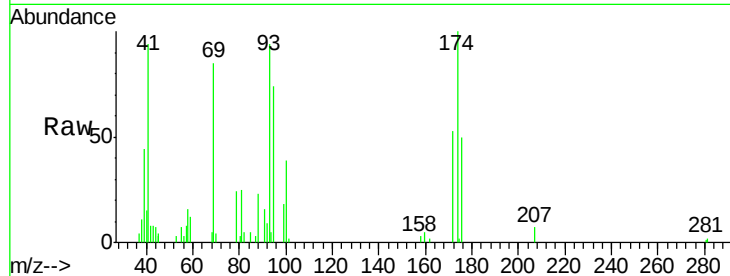
#49
1,4-Dioxane
Concen: 83.278 ug/l
RT: 9.31 min Scan# 1242
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	88	Resp	1981
Ion	Ratio	Lower	Upper
88	100		
43	38.6	22.8	34.2#
58	68.7	51.4	77.2

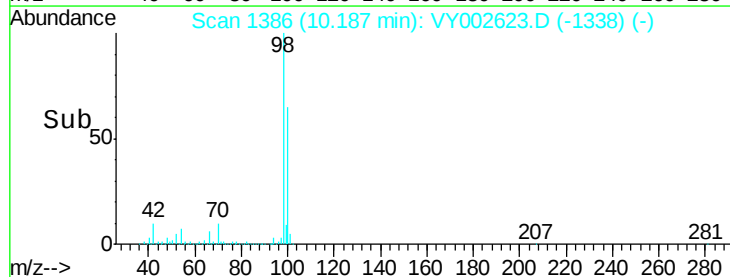
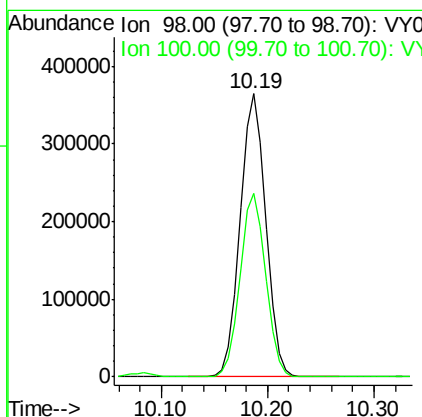
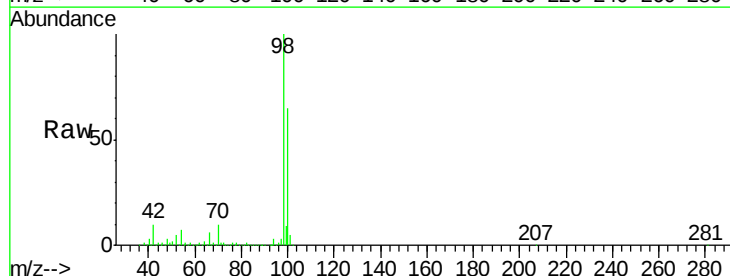
Manual Integrations
APPROVED

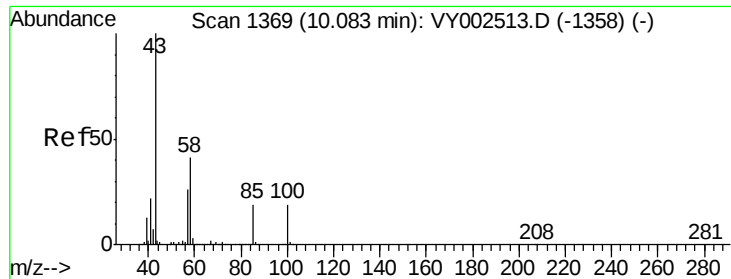
MMDadoda
5/8/2020 1:23:50 PM



#50
Toluene-d8
Concen: 51.781 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	98	Resp	617977
Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 22.164 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 49301

Ion Ratio Lower Upper

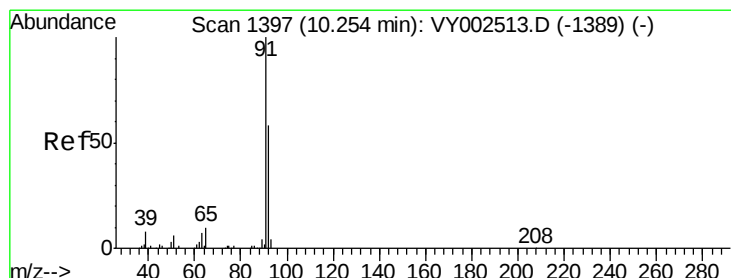
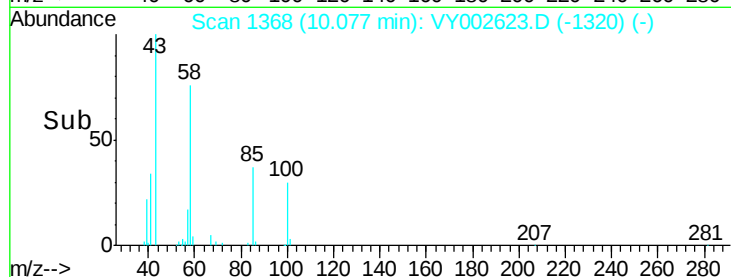
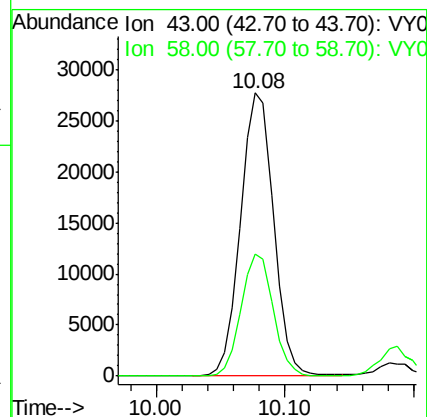
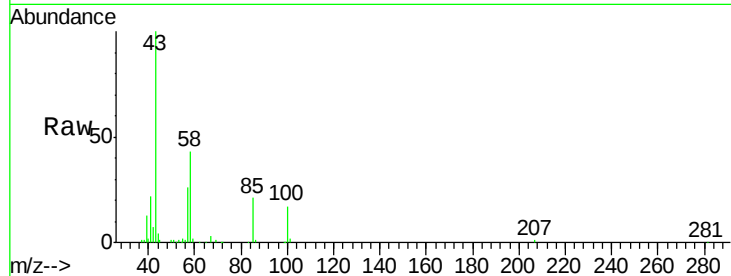
43 100

58 41.8 33.2 49.8

Manual Integrations
APPROVED

MMDadoda

5/8/2020 1:23:50 PM



#52

Toluene

Concen: 4.632 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.01 min

Lab File: VY002623.D

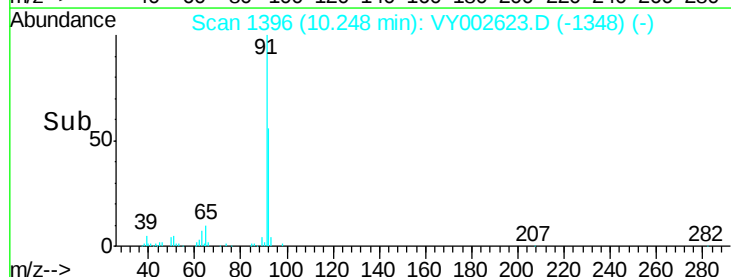
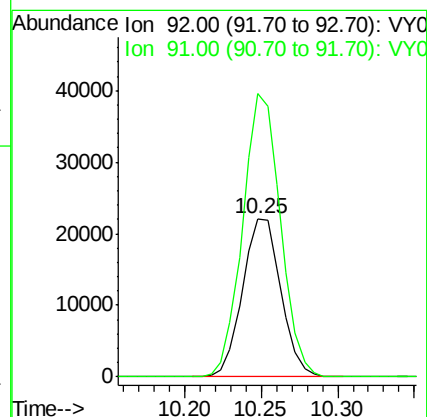
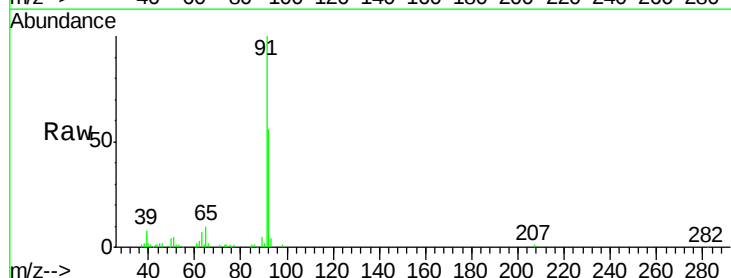
Acq: 07 May 2020 12:08

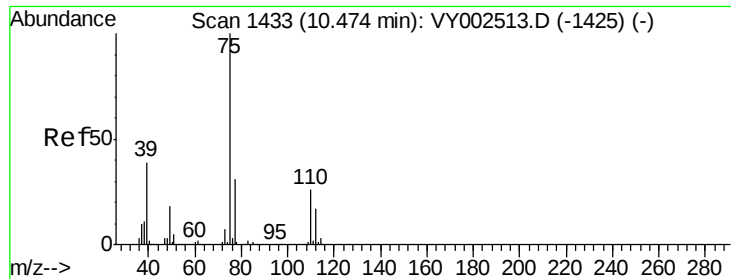
Tgt Ion: 92 Resp: 38515

Ion Ratio Lower Upper

92 100

91 175.9 139.3 208.9





#53

t-1,3-Dichloropropene

Concen: 4.155 ug/l

RT: 10.47 min Scan# 1433

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 75 Resp: 19016

Ion Ratio Lower Upper

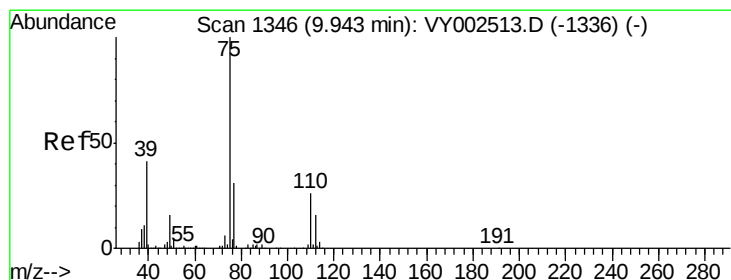
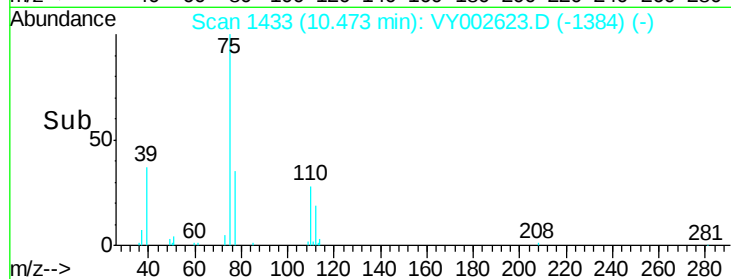
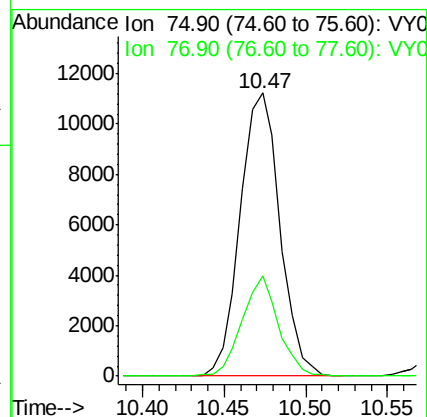
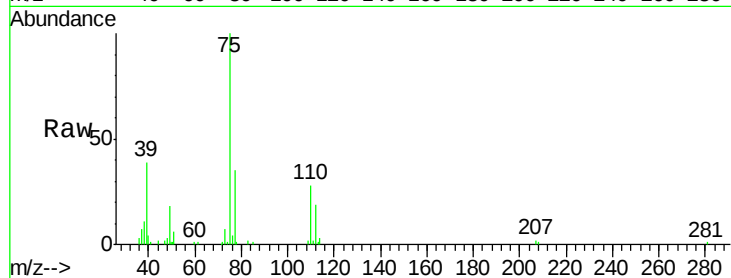
75 100

77 35.4 25.0 37.6

Manual Integrations
APPROVED

MMDadoda

5/8/2020 1:23:50 PM



#54

cis-1,3-Dichloropropene

Concen: 4.215 ug/l

RT: 9.94 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

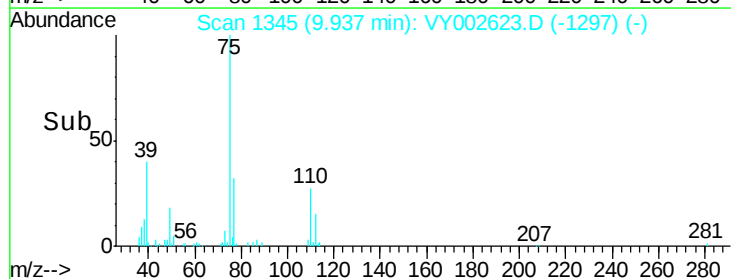
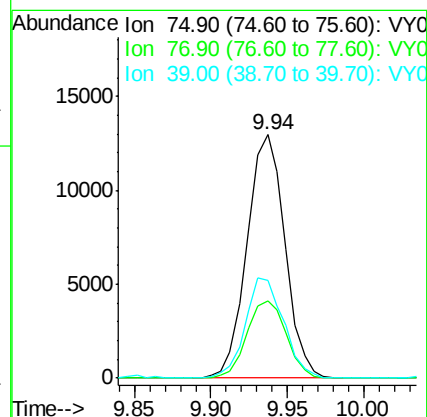
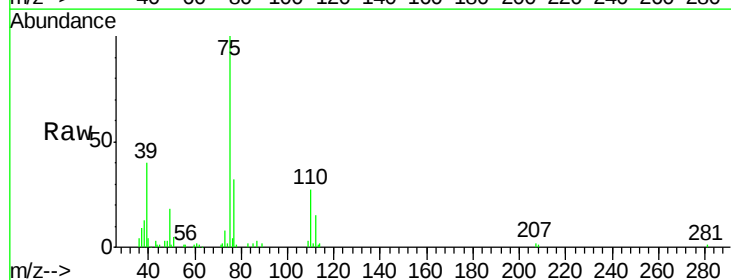
Tgt Ion: 75 Resp: 22301

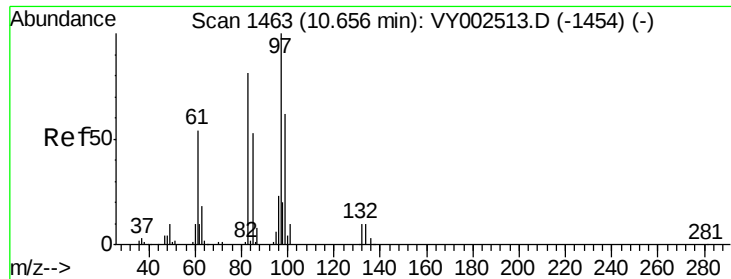
Ion Ratio Lower Upper

75 100

77 31.6 25.1 37.7

39 39.9 32.7 49.1





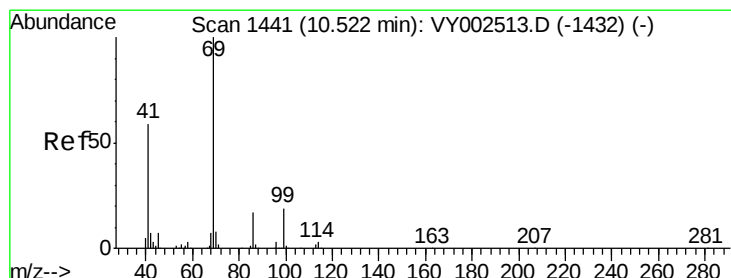
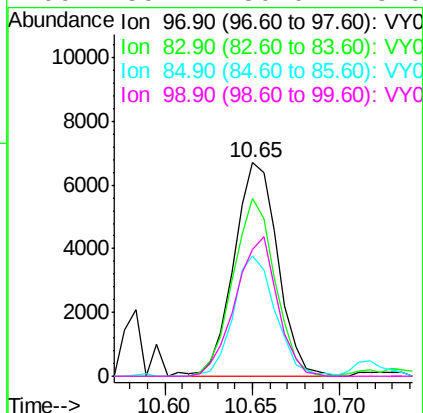
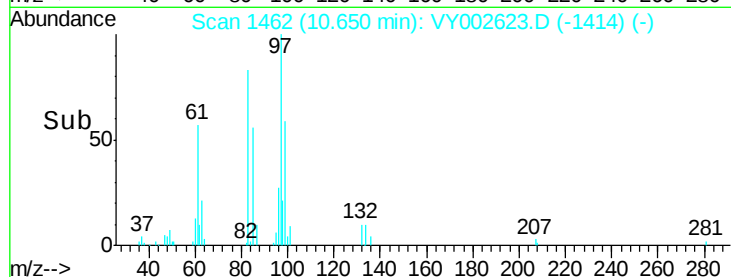
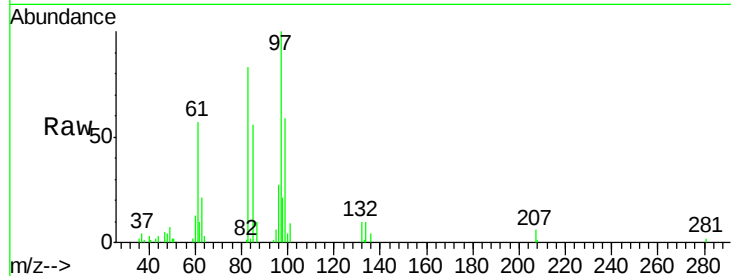
#55
 1,1,2-Trichloroethane
 Concen: 4.450 ug/l
 RT: 10.65 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion:	97	Resp:	11660
Ion	Ratio	Lower	Upper
97	100		
83	83.4	65.1	97.7
85	56.4	42.7	64.1
99	59.4	50.0	75.0

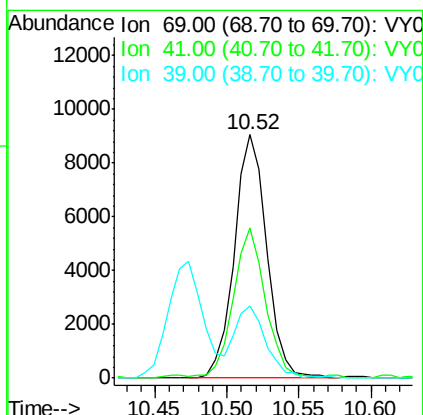
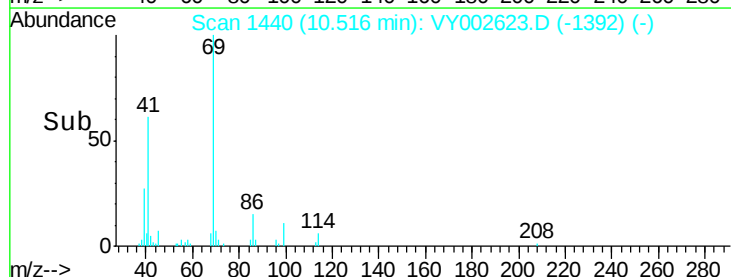
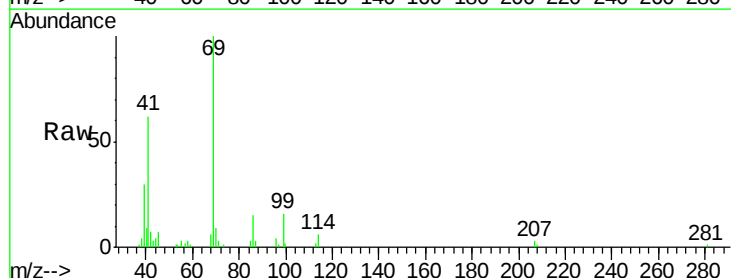
Manual Integrations
 APPROVED

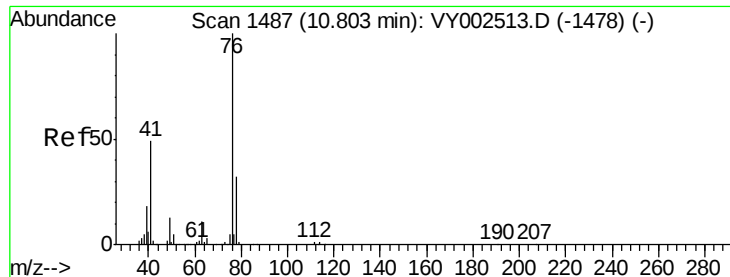
MMDadoda
 5/8/2020 1:23:50 PM



#56
 Ethyl methacrylate
 Concen: 4.059 ug/l
 RT: 10.52 min Scan# 1440
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Tgt Ion:	69	Resp:	14146
Ion	Ratio	Lower	Upper
69	100		
41	61.5	48.6	73.0
39	27.2	25.0	37.4





#57

1,3-Dichloropropane

Concen: 4.300 ug/l

RT: 10.80 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 76 Resp: 19103

Ion Ratio Lower Upper

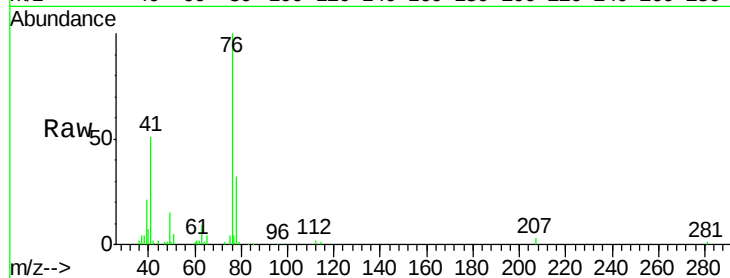
76 100

78 33.0 25.4 38.2

Manual Integrations
APPROVED

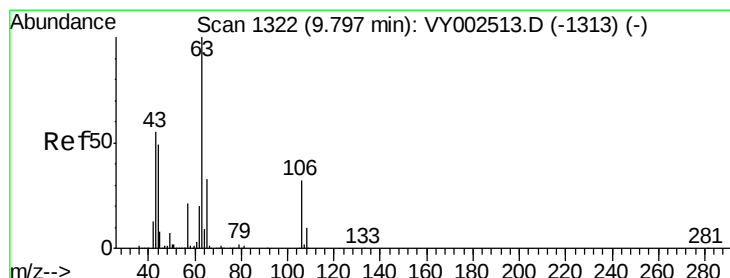
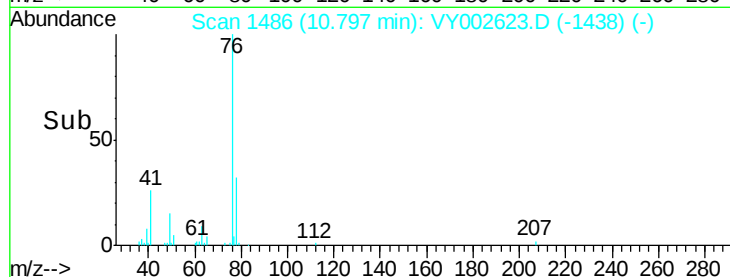
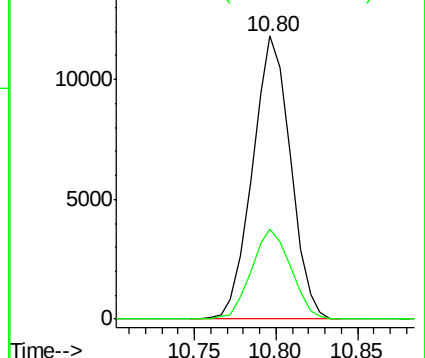
MMDadoda

5/8/2020 1:23:50 PM



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#58

2-Chloroethyl Vinyl ether

Concen: 21.912 ug/l

RT: 9.79 min Scan# 1321

Delta R.T. -0.01 min

Lab File: VY002623.D

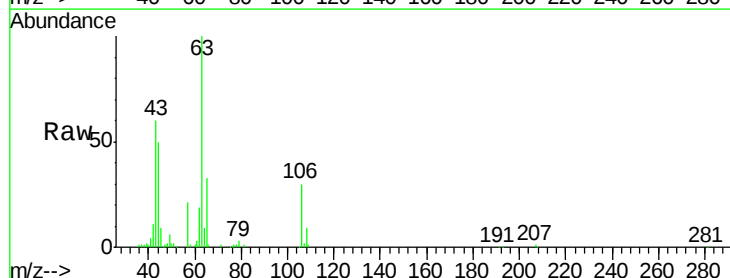
Acq: 07 May 2020 12:08

Tgt Ion: 63 Resp: 40275

Ion Ratio Lower Upper

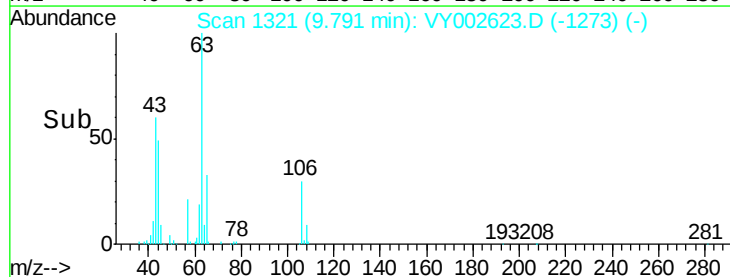
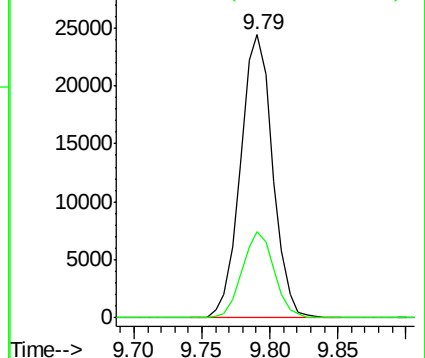
63 100

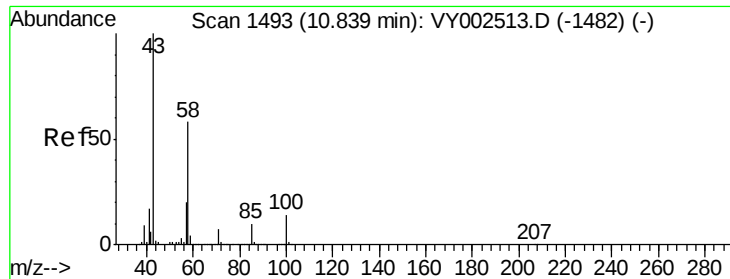
106 30.2 25.2 37.8



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V





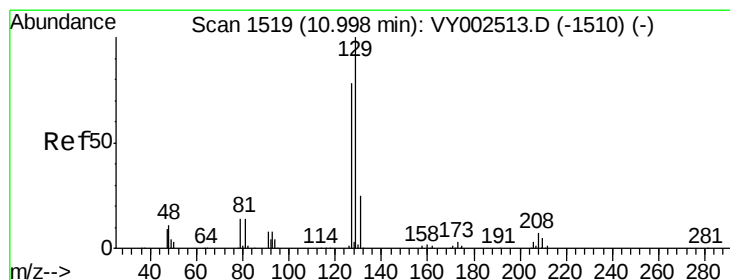
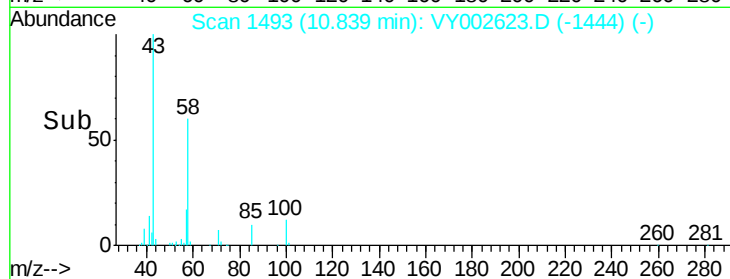
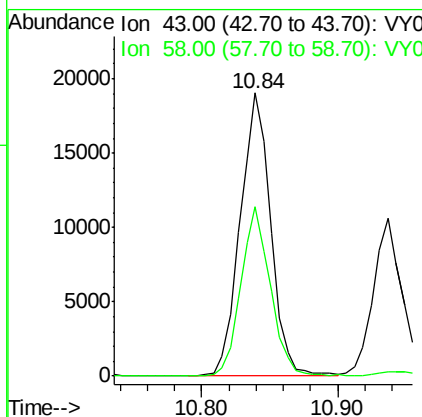
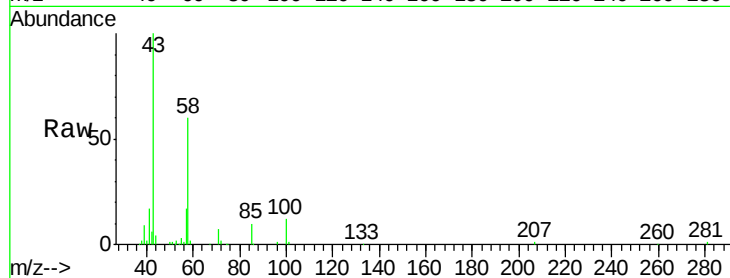
#59
2-Hexanone
Concen: 19.517 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.5	29.1	87.3

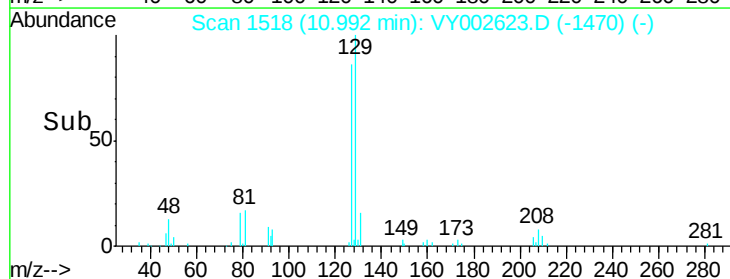
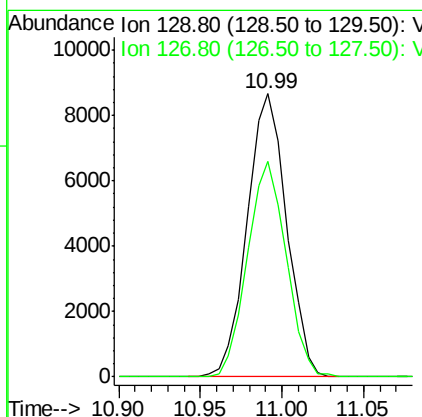
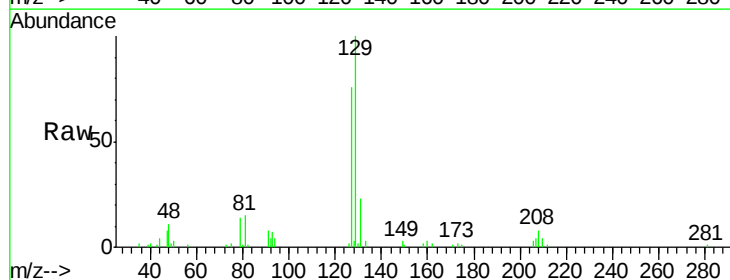
Manual Integrations
APPROVED

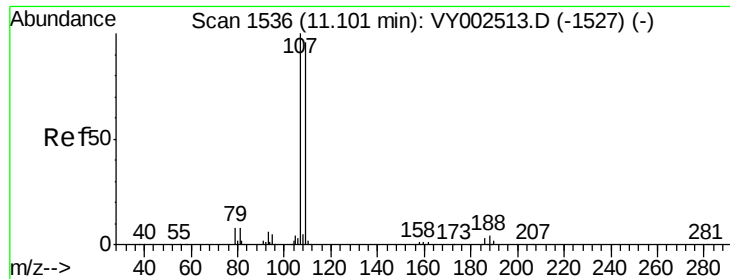
MMDadoda
5/8/2020 1:23:50 PM



#60
Dibromochloromethane
Concen: 4.375 ug/l
RT: 10.99 min Scan# 1518
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.8	39.0	117.0





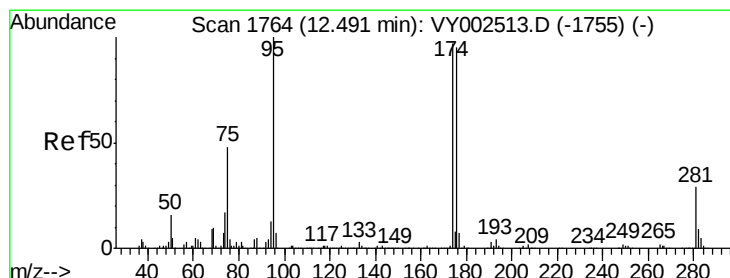
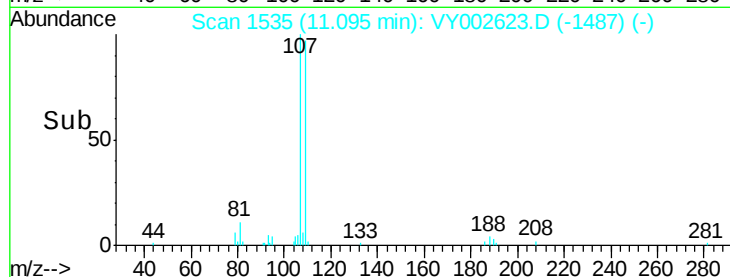
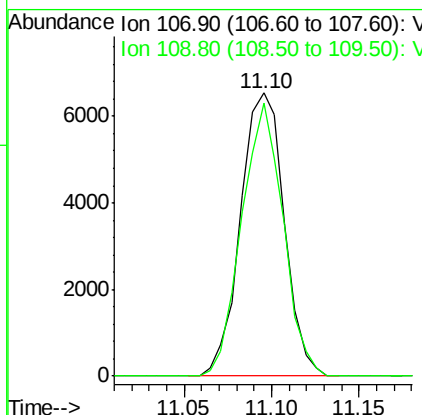
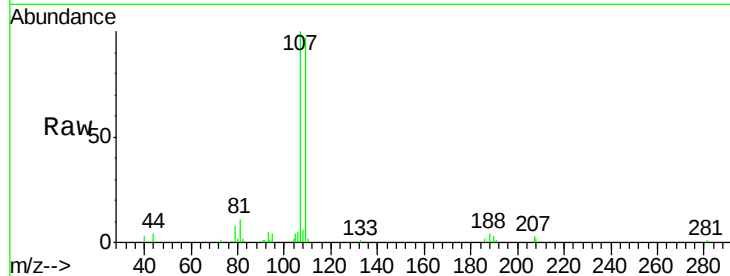
#61
 1,2-Dibromoethane
 Concen: 4.389 ug/l
 RT: 11.10 min Scan# 1535
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.8	75.8	113.8

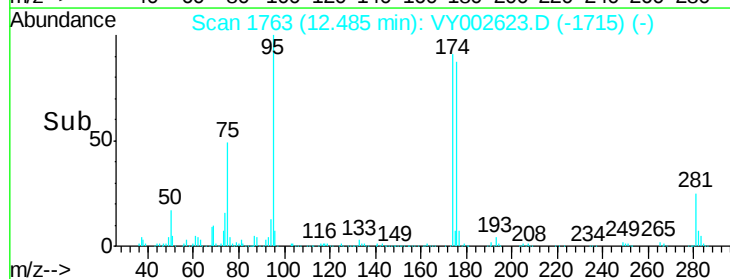
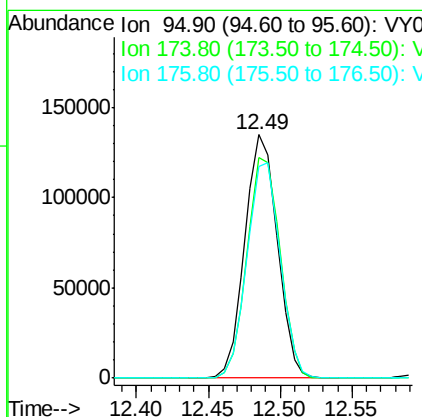
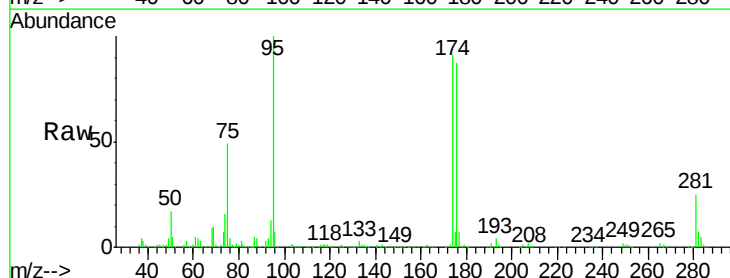
Manual Integrations
 APPROVED

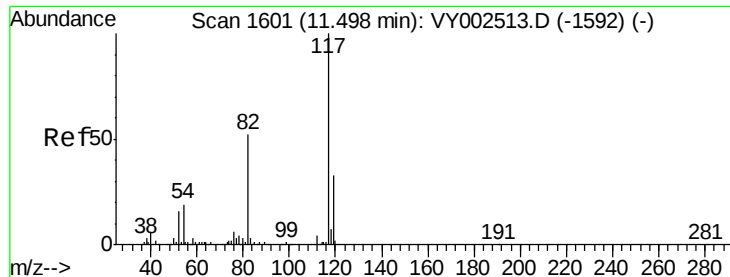
MMDadoda
 5/8/2020 1:23:50 PM



#62
 4-Bromofluorobenzene
 Concen: 52.019 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.3	0.0	188.8
176	90.3	0.0	183.2





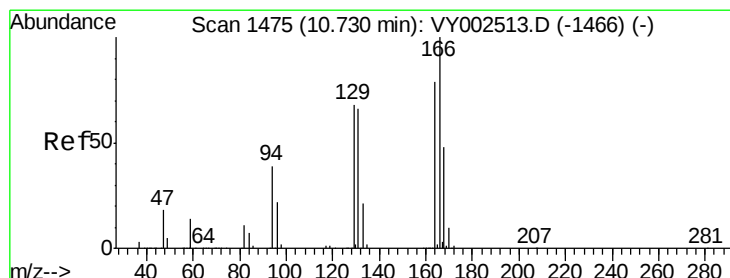
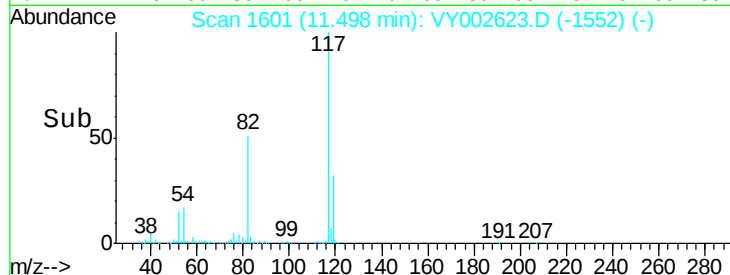
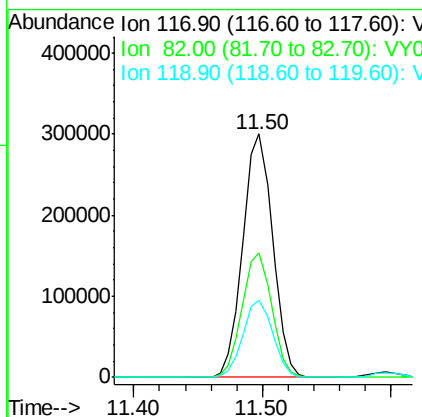
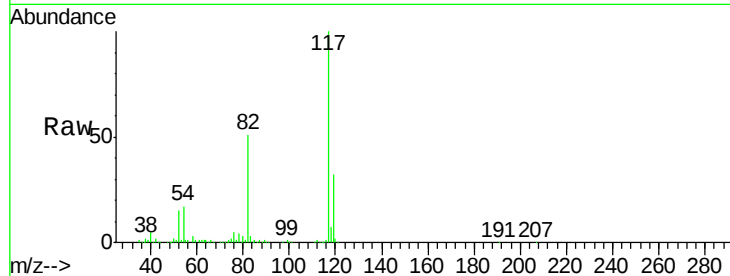
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
117	100	481623		
82	51.1		41.3	61.9
119	31.9		26.0	39.0

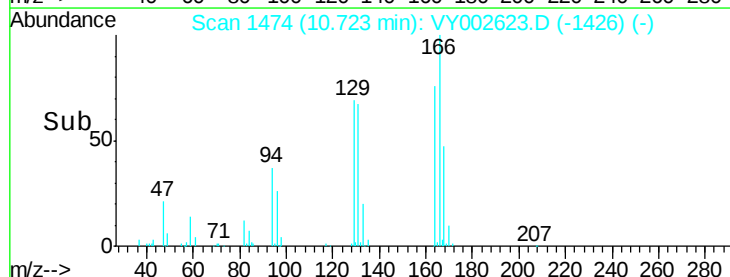
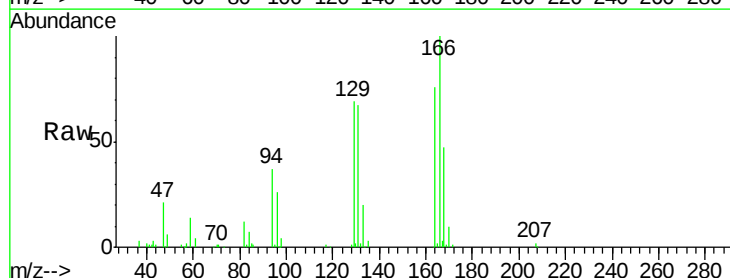
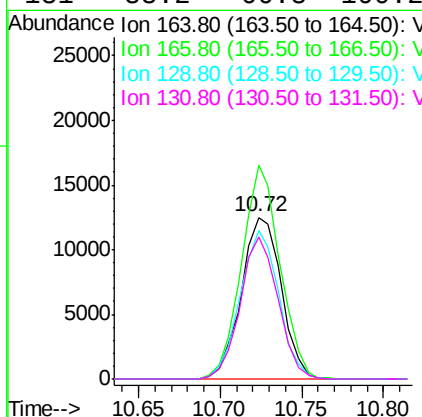
Manual Integrations
APPROVED

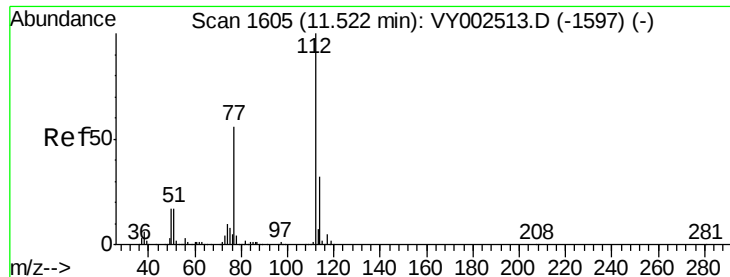
MMDadoda
5/8/2020 1:23:50 PM



#64
Tetrachloroethene
Concen: 4.973 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	21279		
166	132.1		100.7	151.1
129	91.5		68.3	102.5
131	88.2		66.8	100.2





#65

Chlorobenzene

Concen: 4.566 ug/l

RT: 11.52 min Scan# 1605

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:112 Resp: 41807

Ion Ratio Lower Upper

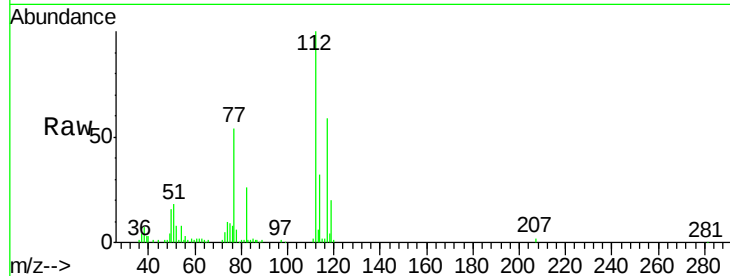
112 100

114 31.8 25.8 38.6

Manual Integrations
APPROVED

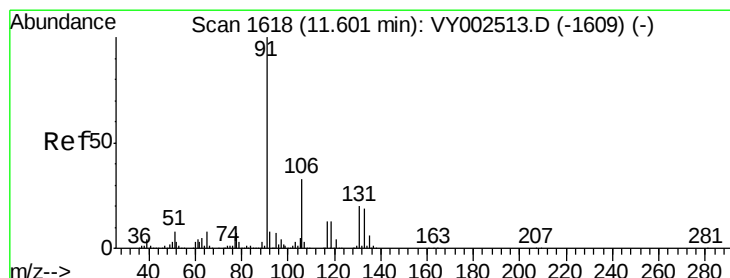
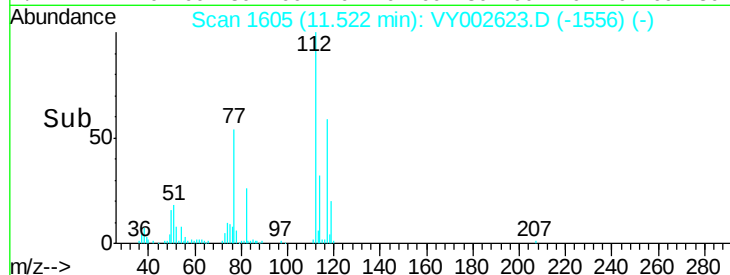
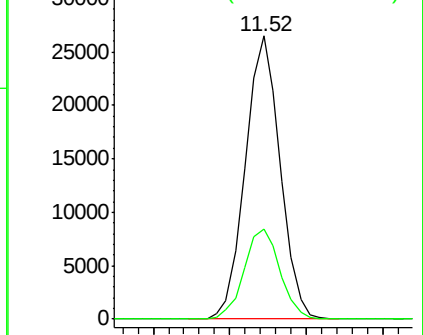
MMDadoda

5/8/2020 1:23:50 PM



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: 4.409 ug/l

RT: 11.60 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

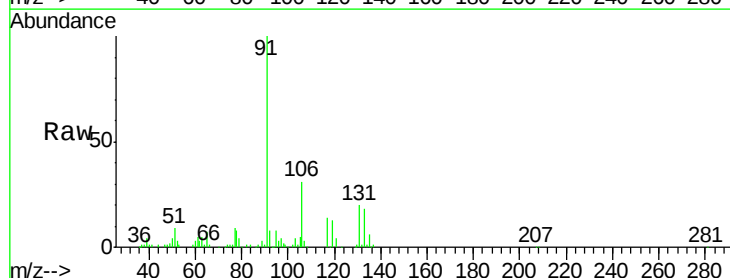
Tgt Ion:131 Resp: 14985

Ion Ratio Lower Upper

131 100

133 95.7 48.1 144.4

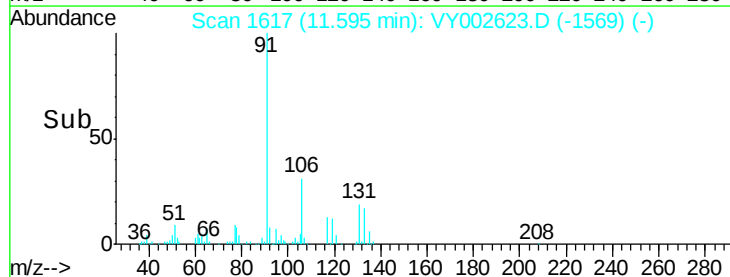
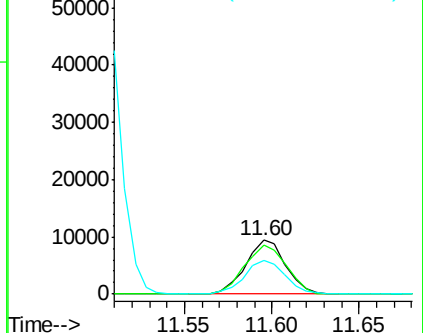
119 63.4 31.6 95.0

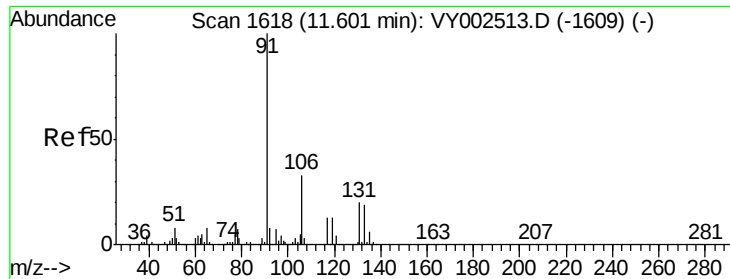


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





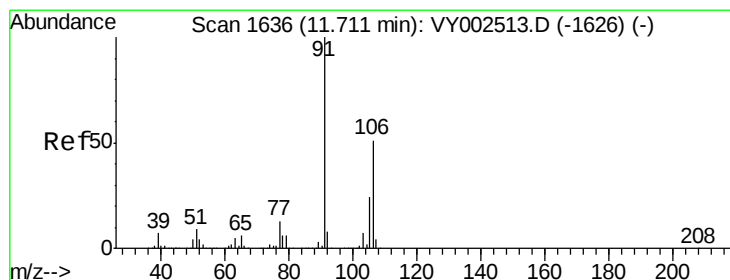
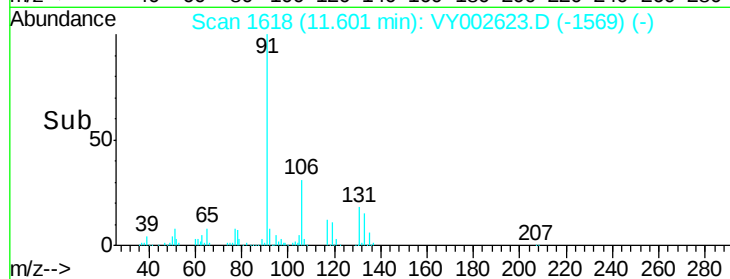
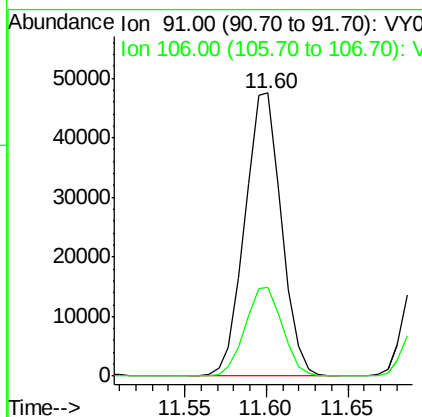
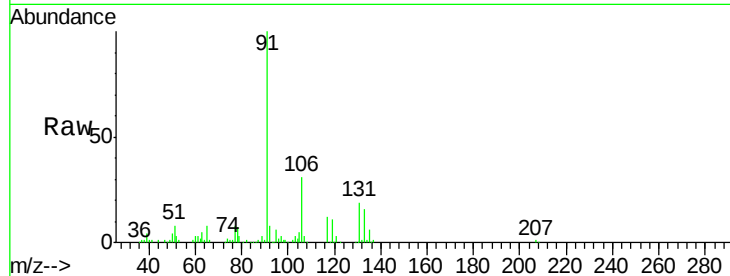
#67
Ethyl Benzene
Concen: 4.617 ug/l
RT: 11.60 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion: 91 Resp: 74257
Ion Ratio Lower Upper
91 100
106 31.4 26.1 39.1

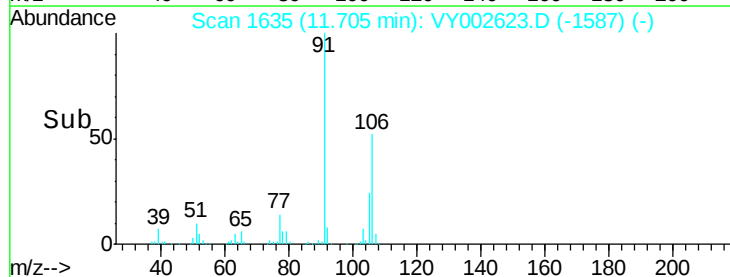
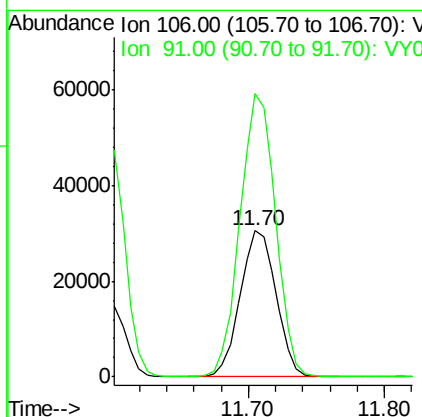
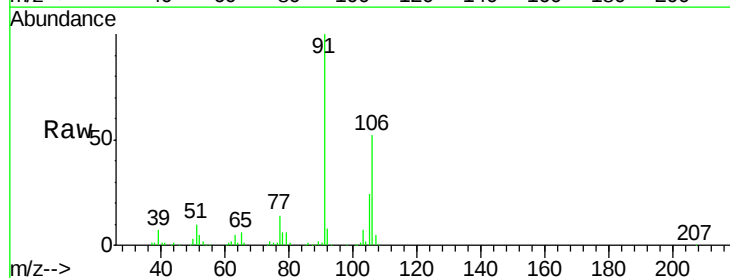
Manual Integrations
APPROVED

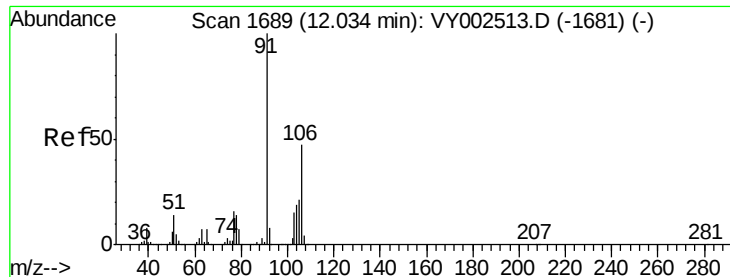
MMDadoda
5/8/2020 1:23:50 PM



#68
m/p-Xylenes
Concen: 9.052 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion: 106 Resp: 56328
Ion Ratio Lower Upper
106 100
91 192.2 155.2 232.8





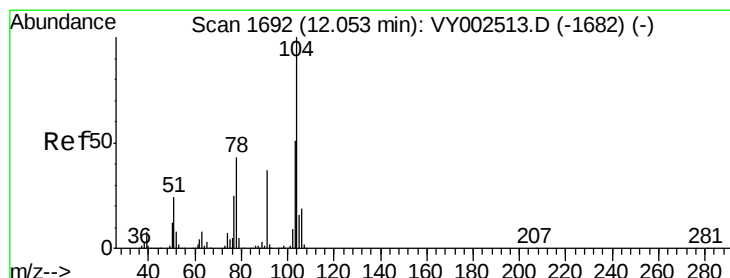
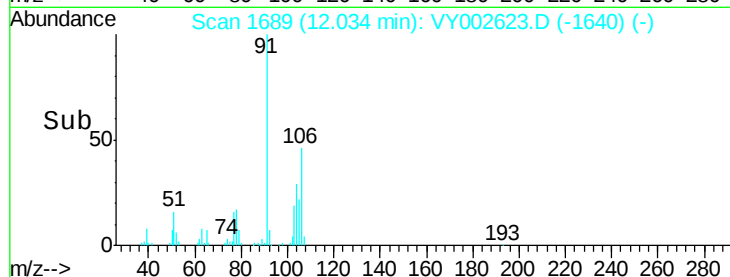
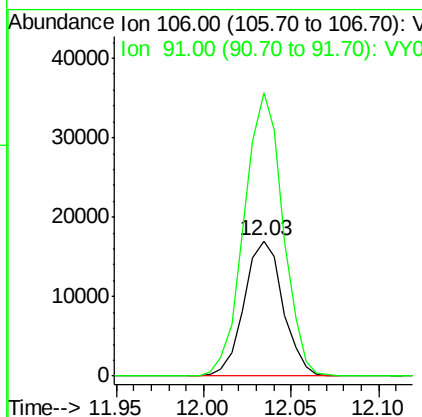
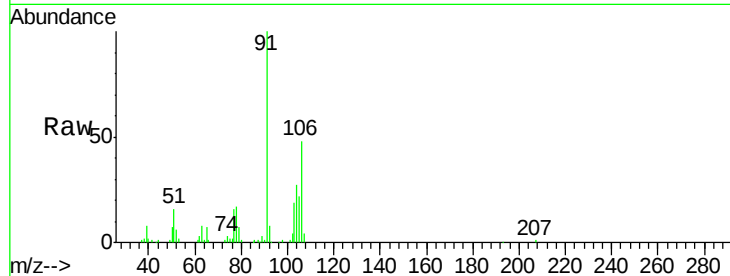
#69
o-Xylene
Concen: 4.503 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	209.2	103.8	311.3	

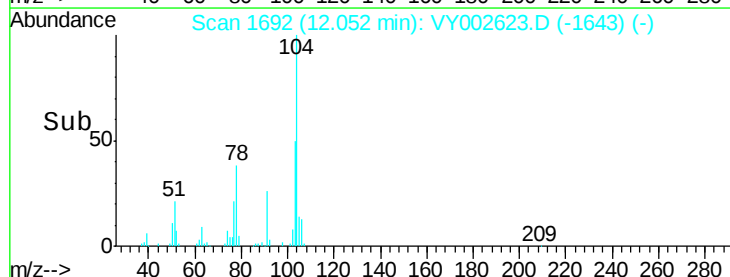
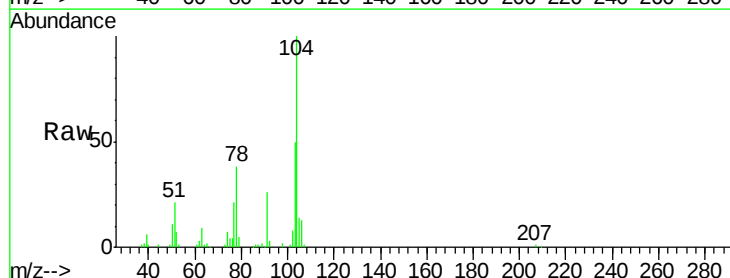
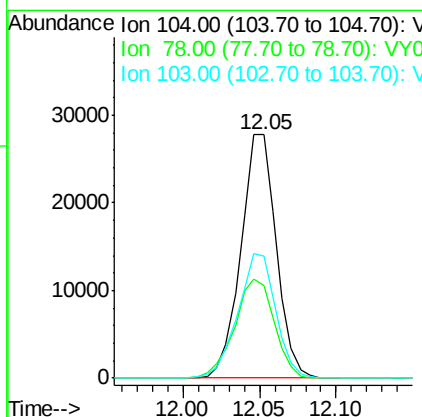
Manual Integrations
APPROVED

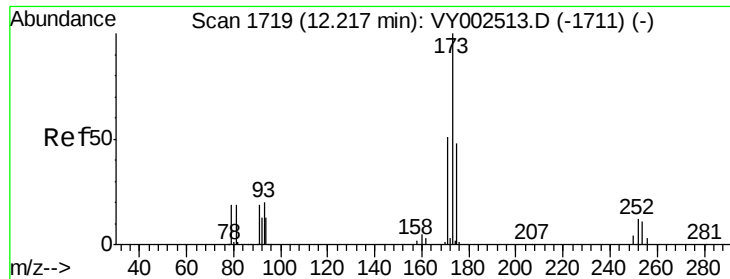
MMDadoda
5/8/2020 1:23:50 PM



#70
Styrene
Concen: 4.480 ug/l
RT: 12.05 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	45.3	37.4	56.0	
103	54.9	43.9	65.9	





#71

Bromoform

Concen: 4.024 ug/l

RT: 12.21 min Scan# 1718

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

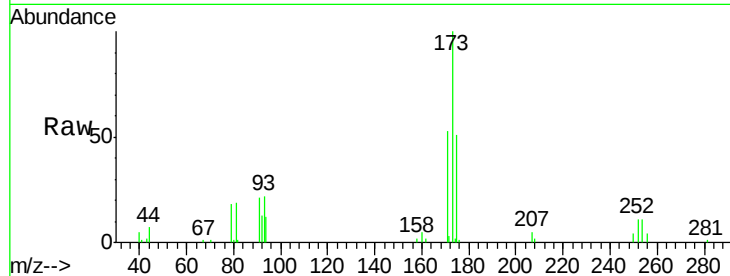
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

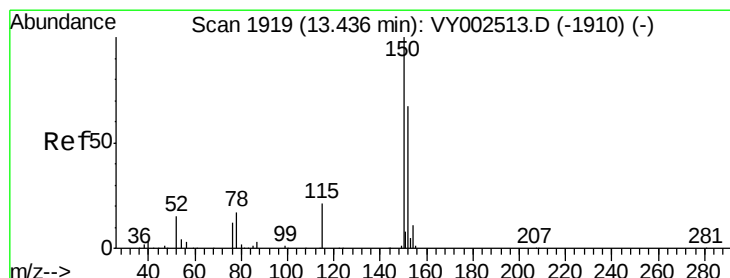
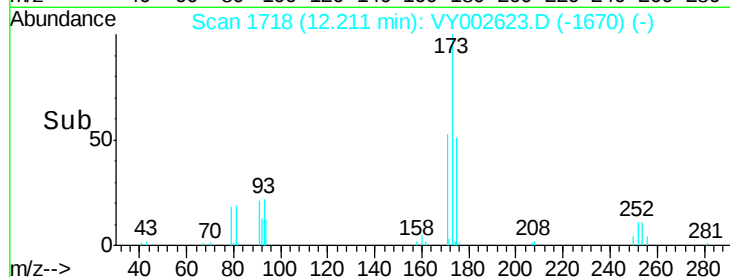
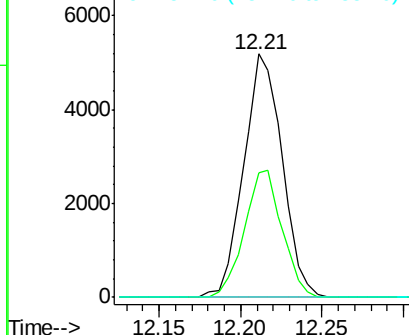
Tot Ion	Ratio	Lower	Upper
173	100		
175	51.2	24.3	72.8
254	0.0	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



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

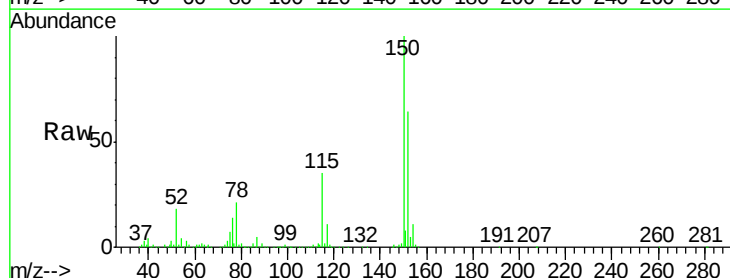
RT: 13.43 min Scan# 1918

Delta R.T. -0.01 min

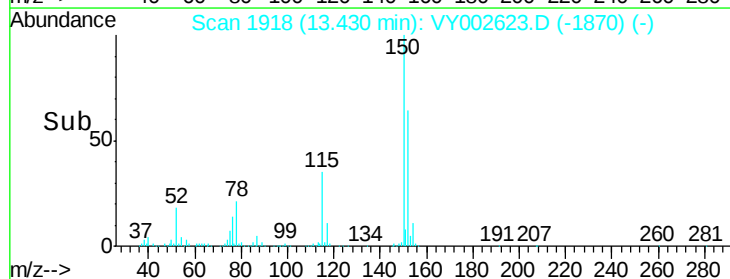
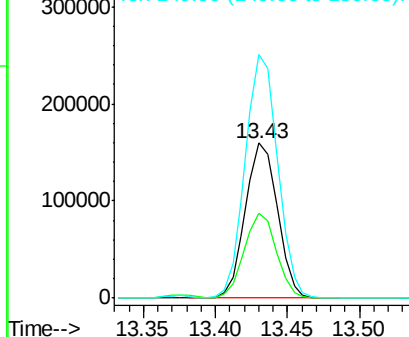
Lab File: VY002623.D

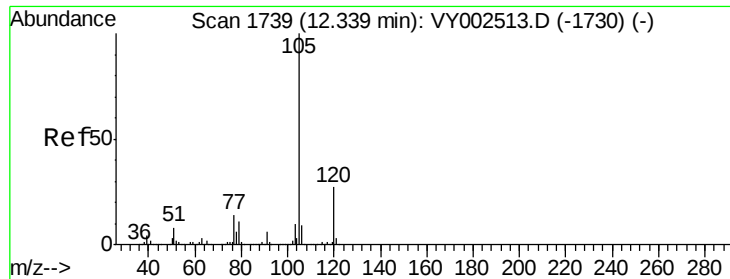
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	27.5	82.4
150	158.5	0.0	346.4



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: 4.545 ug/l

RT: 12.33 min Scan# 1738

Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 105 Resp: 72870

Ion Ratio Lower Upper

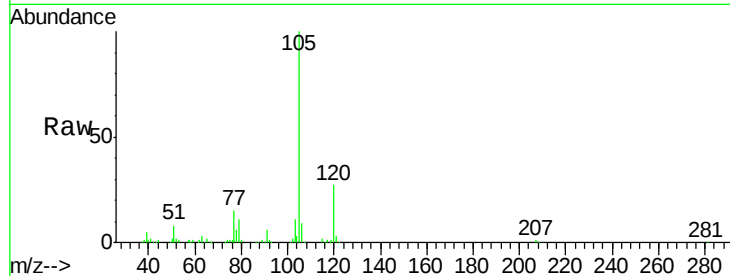
105 100

120 28.1 13.8 41.3

Manual Integrations
APPROVED

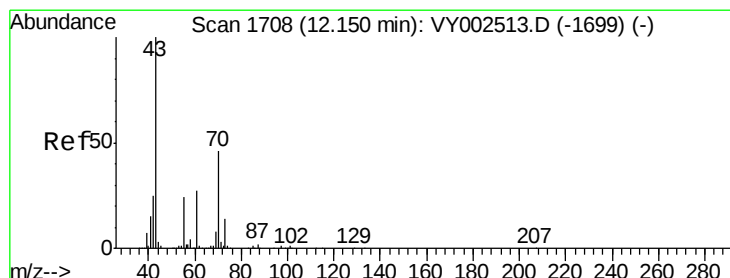
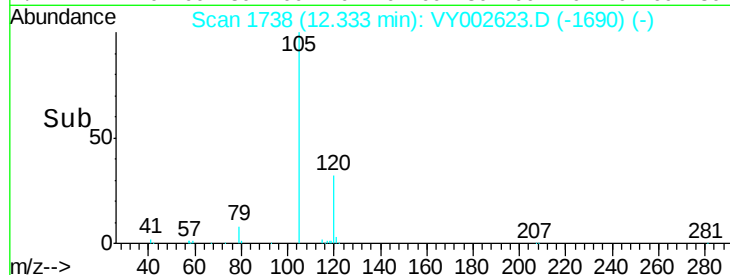
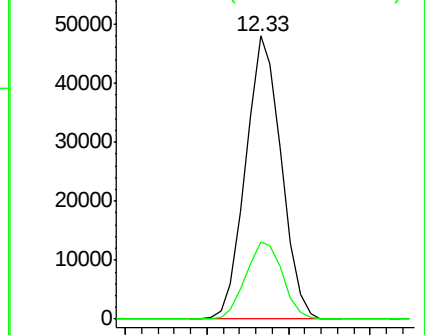
MMDadoda

5/8/2020 1:23:50 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 3.969 ug/l

RT: 12.15 min Scan# 1708

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Tgt Ion: 43 Resp: 15309

Ion Ratio Lower Upper

43 100

70 47.9 36.7 55.1

55 28.8 19.2 28.8#

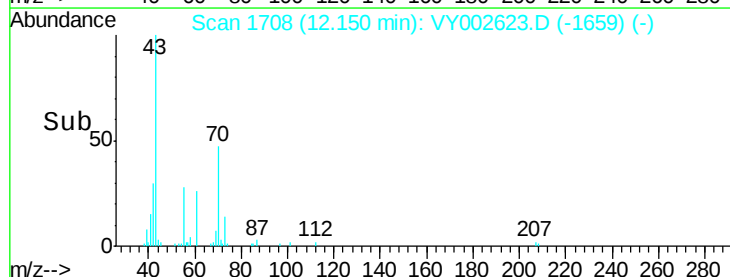
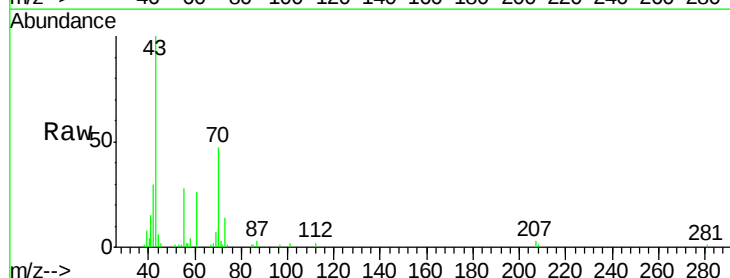
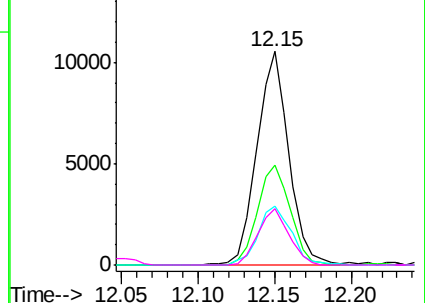
61 25.6 21.1 31.7

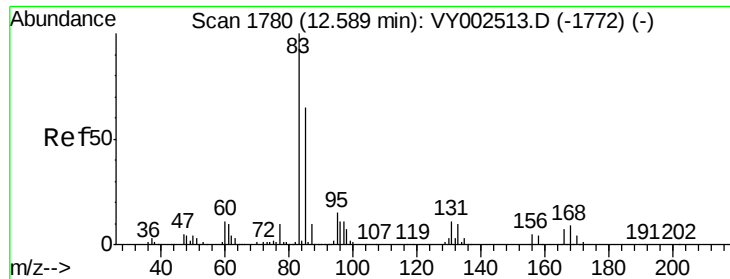
Abundance Ion 43.00 (42.70 to 43.70): VY0

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: 4.122 ug/l

RT: 12.59 min Scan# 1780

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

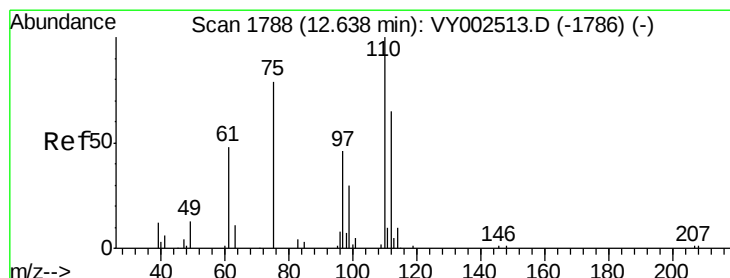
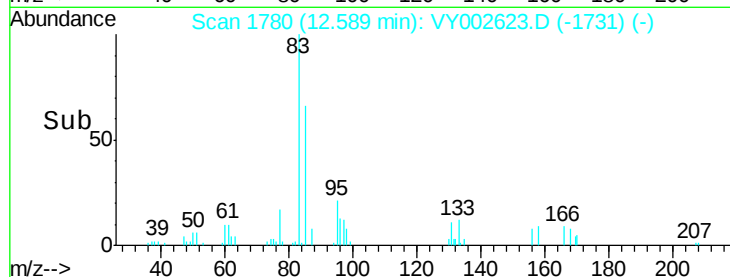
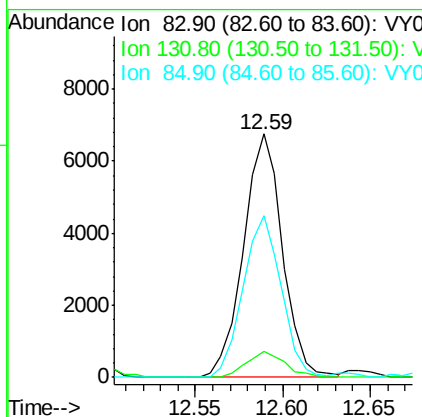
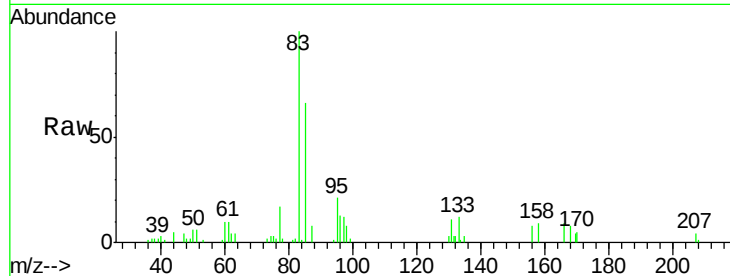
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	83	Resp:	10512
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.9	17.8
85	64.6	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



#76

1,2,3-Trichloropropane

Concen: 4.127 ug/l m

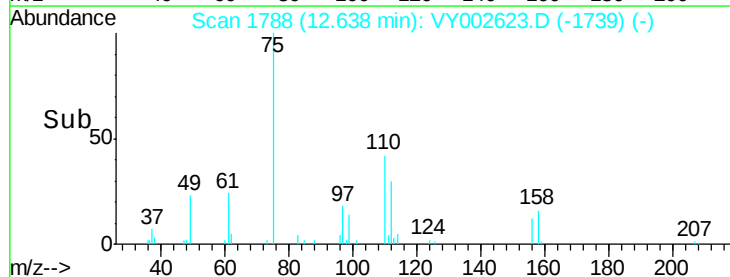
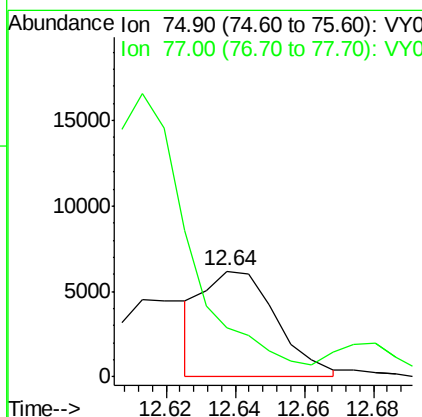
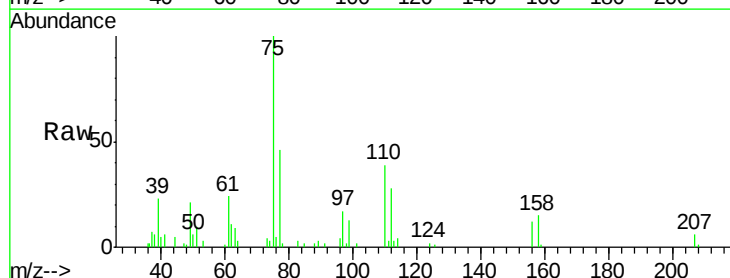
RT: 12.64 min Scan# 1788

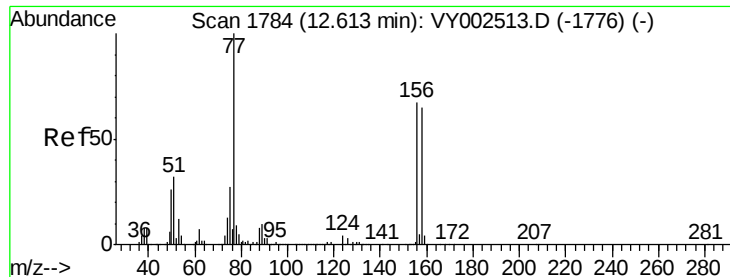
Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Tgt Ion:	75	Resp:	9074
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.521 ug/l

RT: 12.61 min Scan# 1784

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

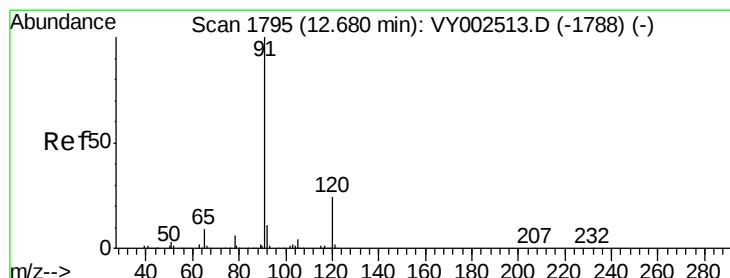
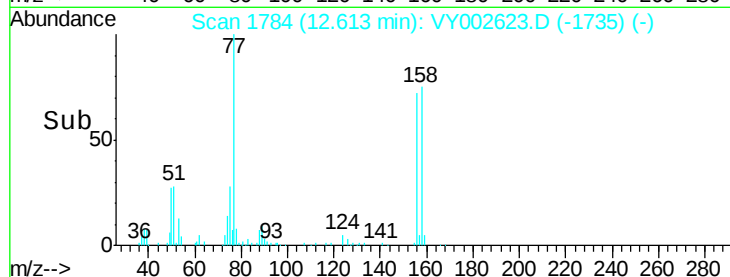
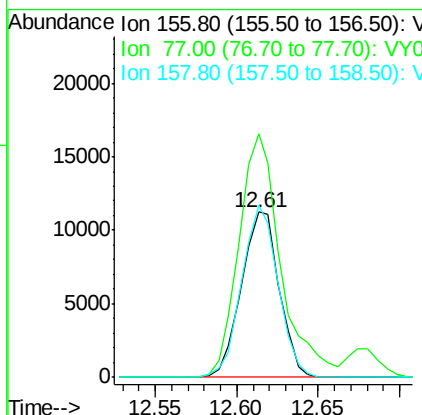
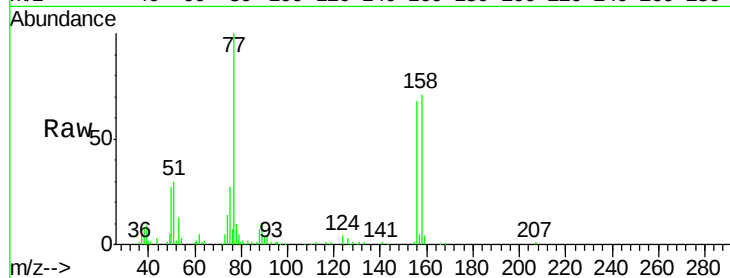
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	156	Resp:	18110
Ion	Ratio	Lower	Upper
156	100		
77	163.9	82.0	245.8
158	100.4	48.5	145.6

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



#78

n-propylbenzene

Concen: 4.652 ug/l

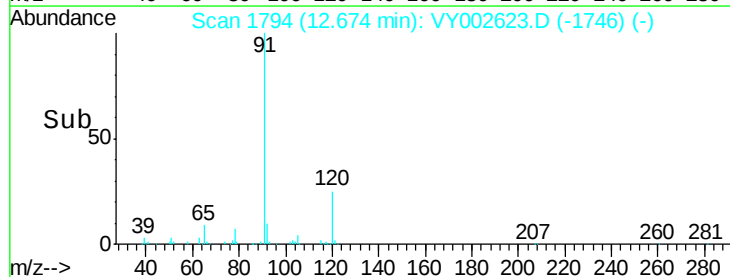
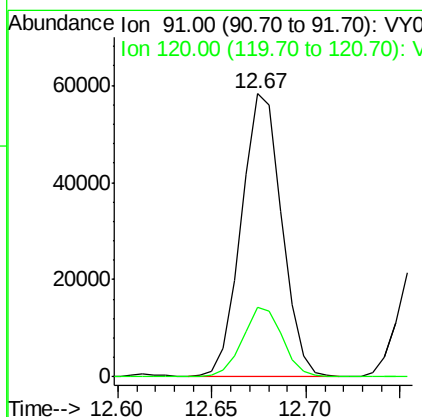
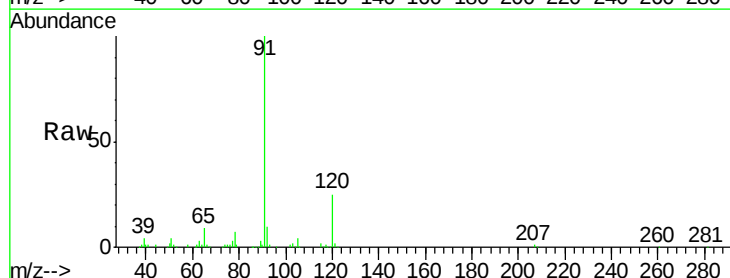
RT: 12.67 min Scan# 1794

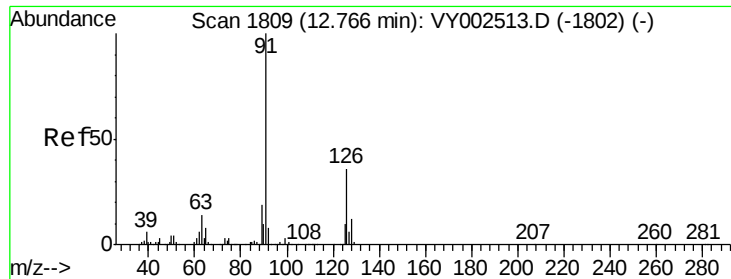
Delta R.T. -0.01 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Tgt Ion:	91	Resp:	86560
Ion	Ratio	Lower	Upper
91	100		
120	24.2	12.2	36.4





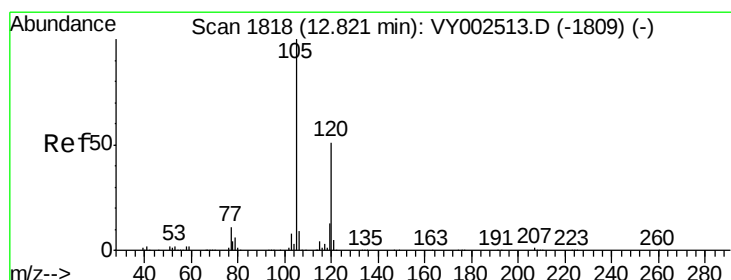
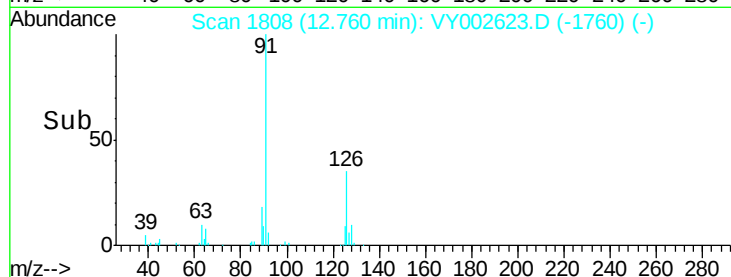
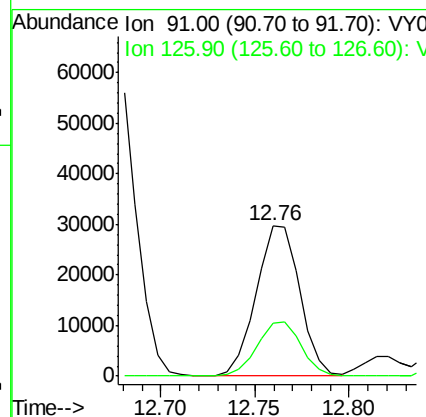
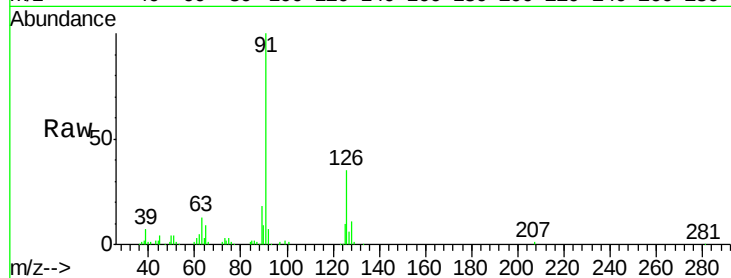
#79
2-Chlorotoluene
Concen: 4.626 ug/l
RT: 12.76 min Scan# 1808
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion: 91 Resp: 47679
Ion Ratio Lower Upper
91 100
126 36.1 18.4 55.2

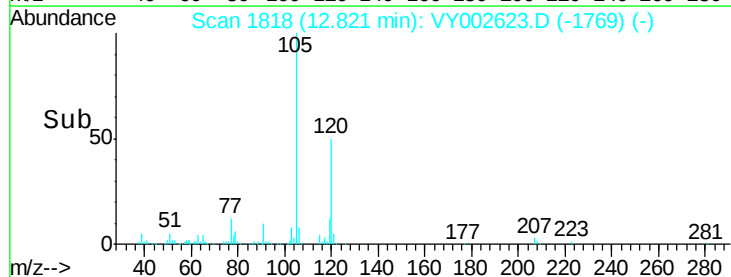
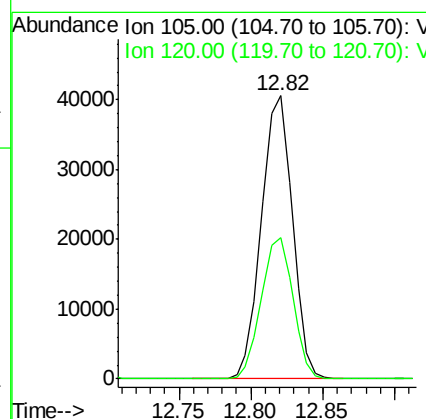
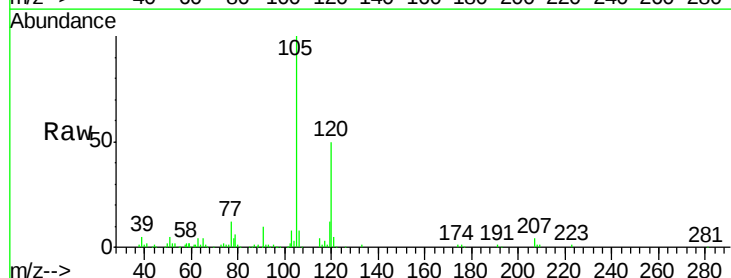
Manual Integrations
APPROVED

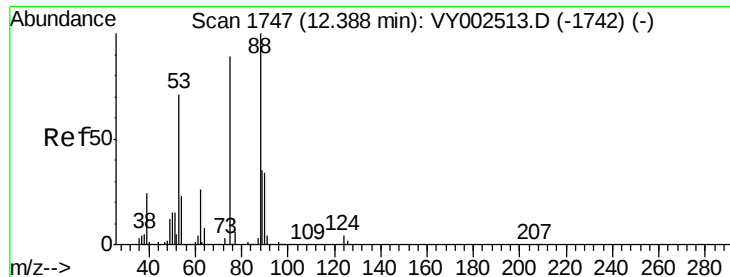
MMDadoda
5/8/2020 1:23:50 PM



#80
1,3,5-Trimethylbenzene
Concen: 4.559 ug/l
RT: 12.82 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion: 105 Resp: 60596
Ion Ratio Lower Upper
105 100
120 50.8 25.3 75.9





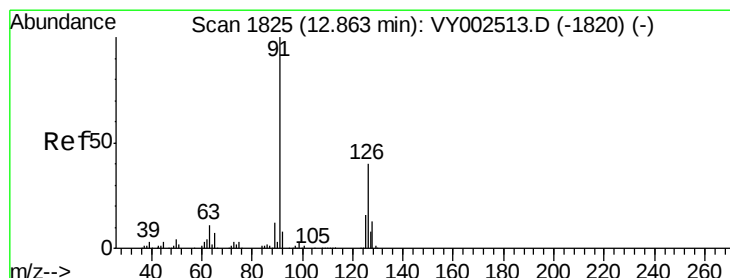
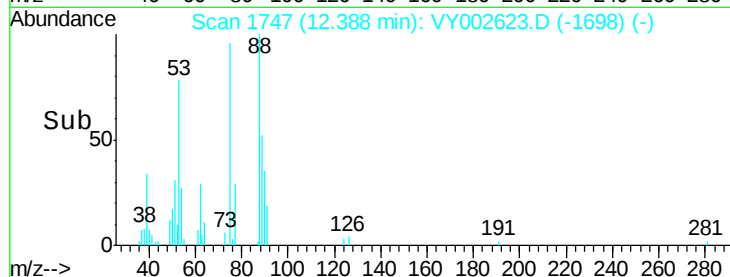
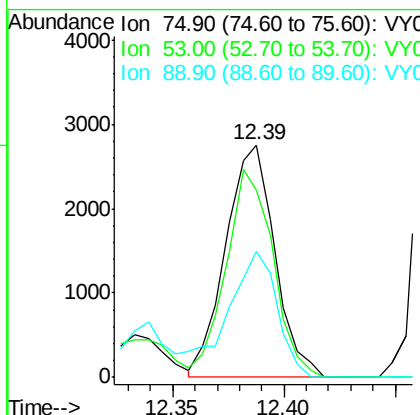
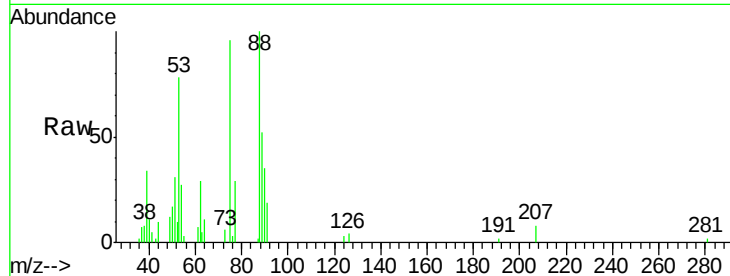
#81
trans-1,4-Dichloro-2-butene
Concen: 3.859 ug/l
RT: 12.39 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
75	100		
53	85.5	67.4	101.0
89	53.2	37.4	56.0

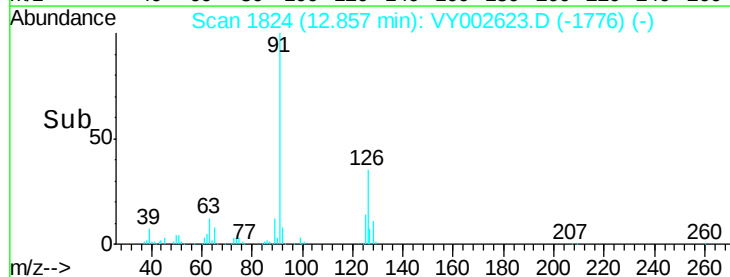
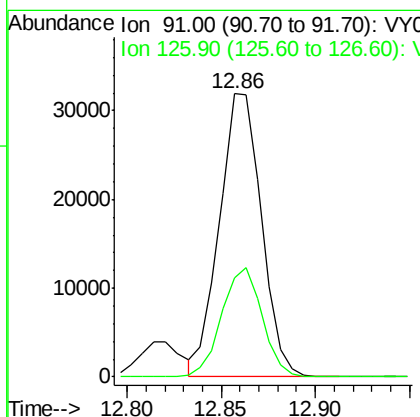
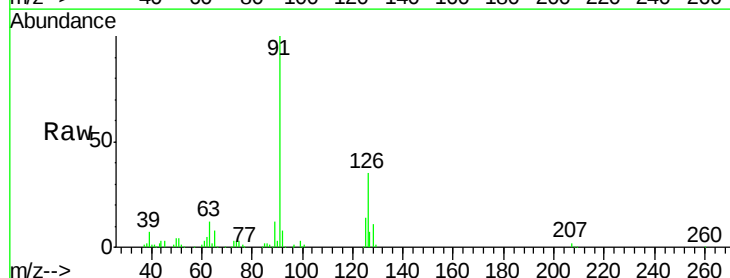
Manual Integrations
APPROVED

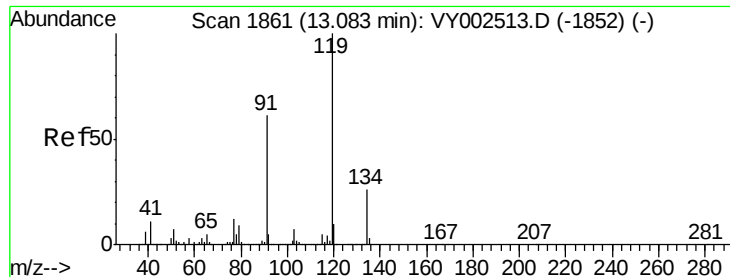
MMDadoda
5/8/2020 1:23:50 PM



#82
4-Chlorotoluene
Concen: 4.570 ug/l
RT: 12.86 min Scan# 1824
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.1	18.5	55.5





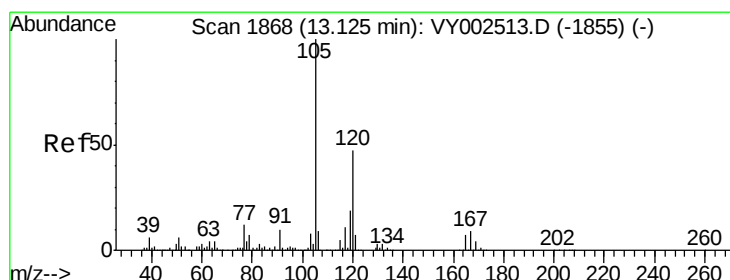
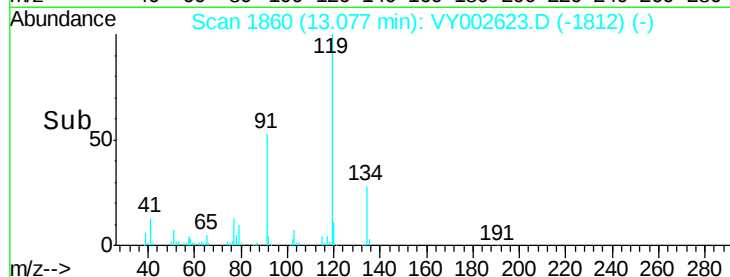
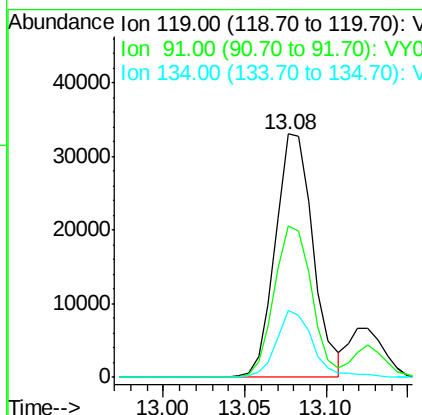
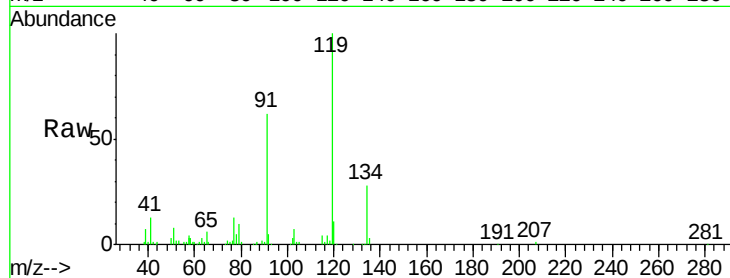
#83
tert-Butylbenzene
Concen: 4.529 ug/l
RT: 13.08 min Scan# 1860
Delta R.T. -0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
119	100	52782		
91	62.1	30.6	91.6	
134	26.7	13.5	40.4	

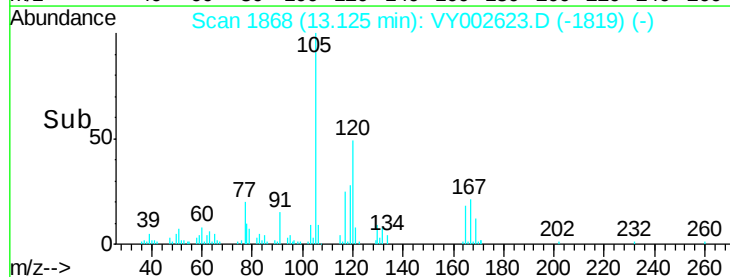
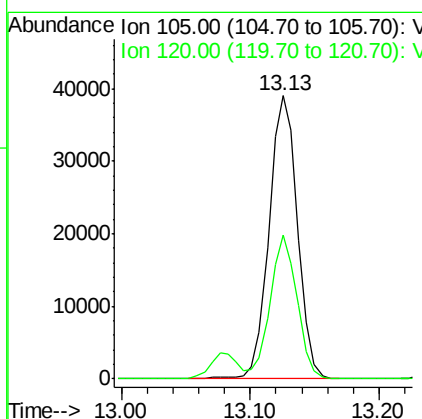
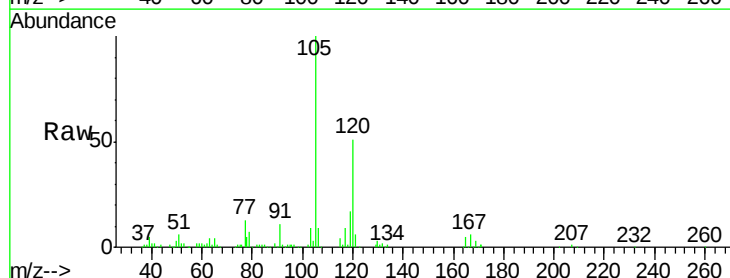
Manual Integrations
APPROVED

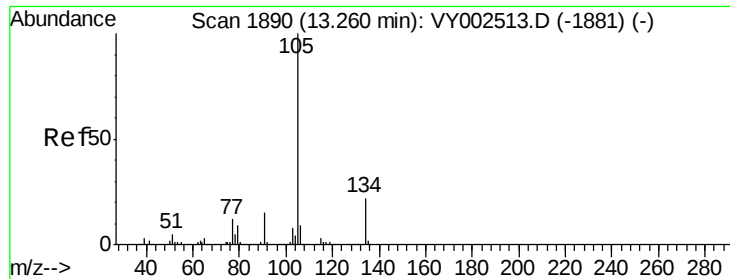
MMDadoda
5/8/2020 1:23:50 PM



#84
1,2,4-Trimethylbenzene
Concen: 4.528 ug/l
RT: 13.13 min Scan# 1868
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	59978		
120	48.3	23.4	70.3	





#85

sec-Butylbenzene

Concen: 4.617 ug/l

RT: 13.26 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:105 Resp: 74667

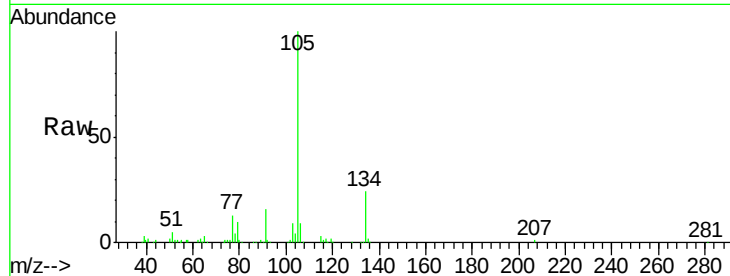
Ion Ratio Lower Upper

105 100

134 22.0 10.8 32.3

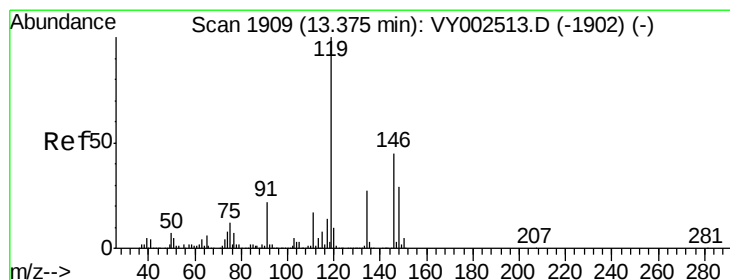
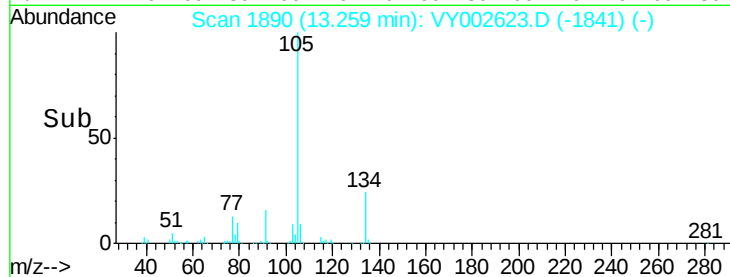
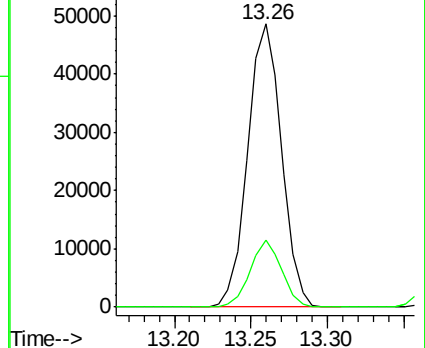
Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.645 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. -0.00 min

Lab File: VY002623.D

Acq: 07 May 2020 12:08

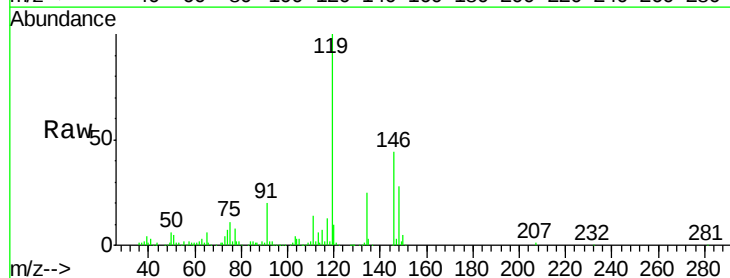
Tgt Ion:119 Resp: 70382

Ion Ratio Lower Upper

119 100

134 27.1 13.5 40.5

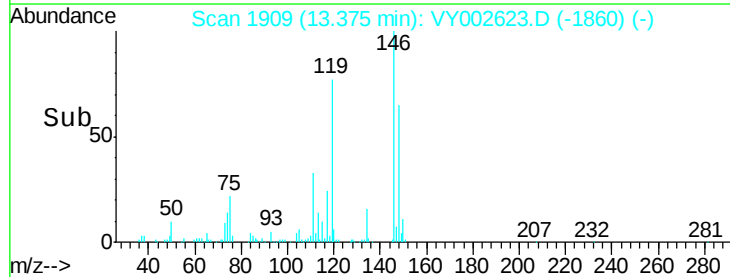
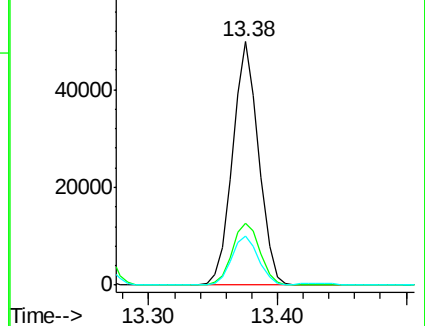
91 20.9 10.9 32.9

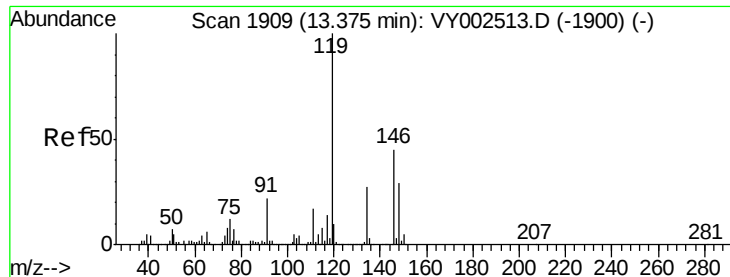


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0





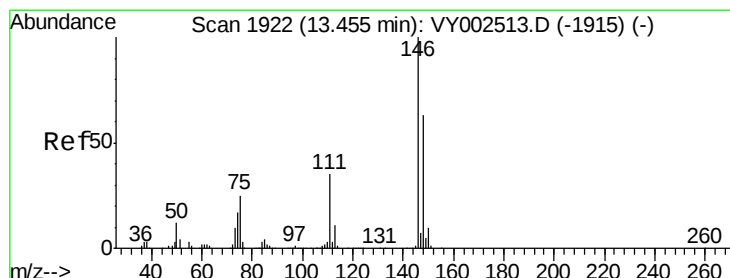
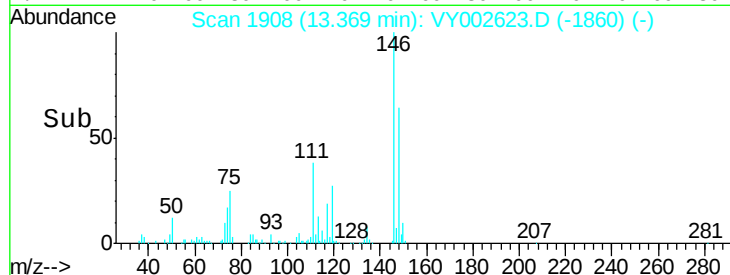
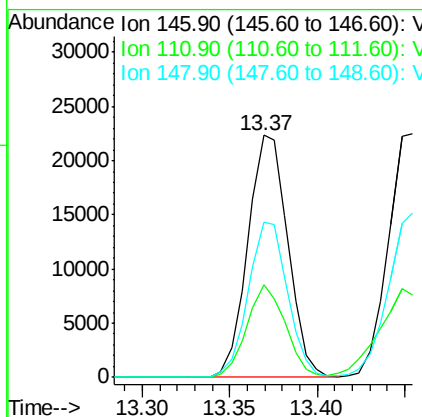
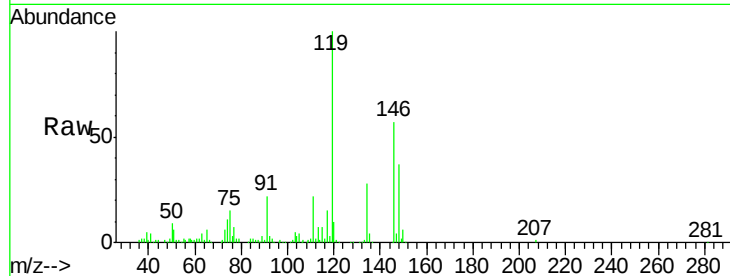
#87
 1,3-Dichlorobenzene
 Concen: 4.675 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. -0.01 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.8	56.3
148	63.4	32.1	96.3

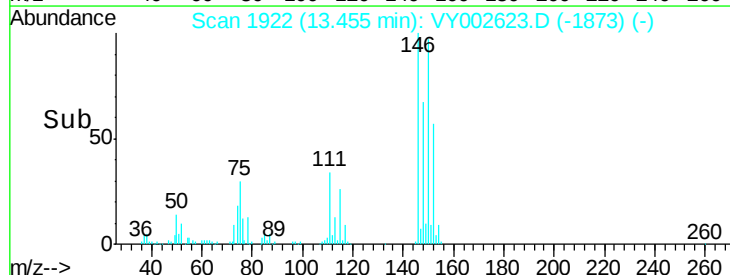
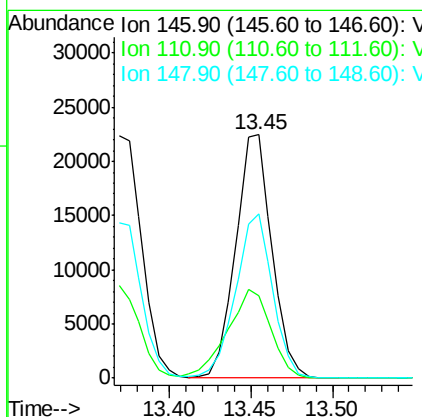
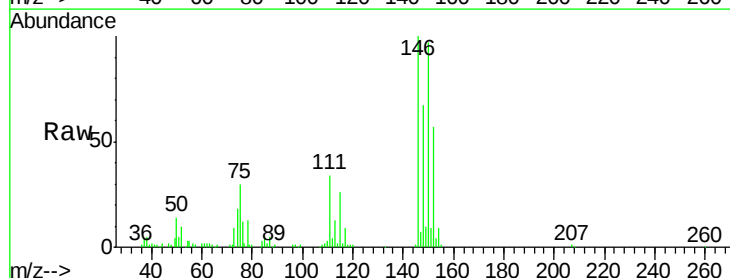
Manual Integrations
 APPROVED

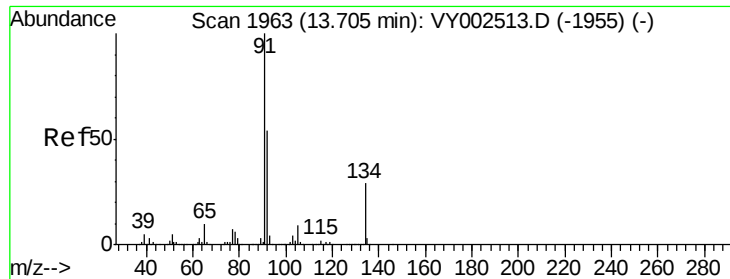
MMDadoda
 5/8/2020 1:23:50 PM



#88
 1,4-Dichlorobenzene
 Concen: 4.630 ug/l
 RT: 13.45 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.8	18.1	54.1
148	68.6	31.9	95.5





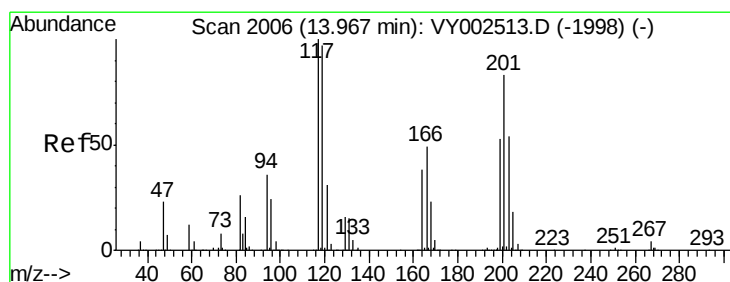
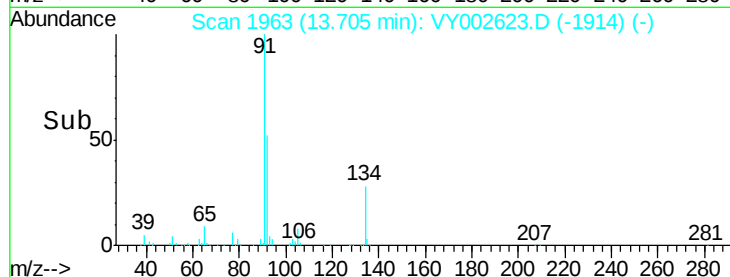
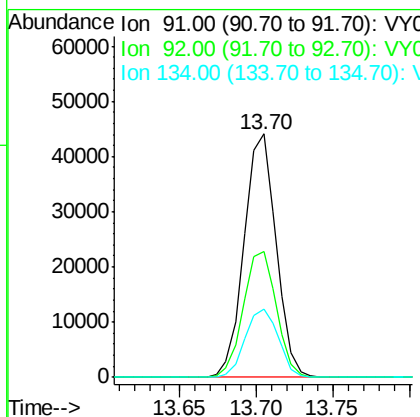
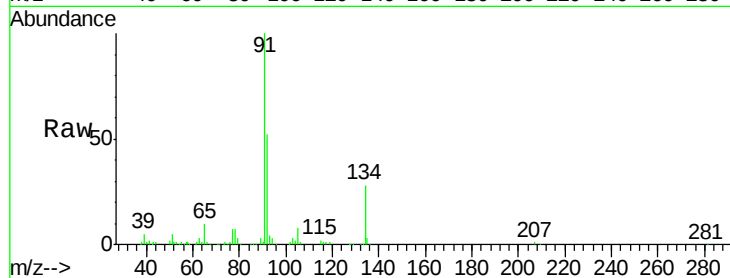
#89
n-Butylbenzene
Concen: 4.639 ug/l
RT: 13.70 min Scan# 1963
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.4	27.1	81.3
134	29.1	14.4	43.0

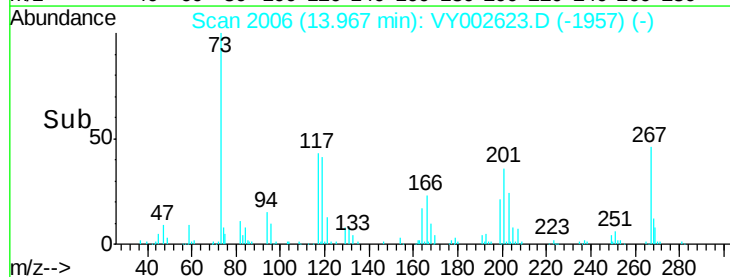
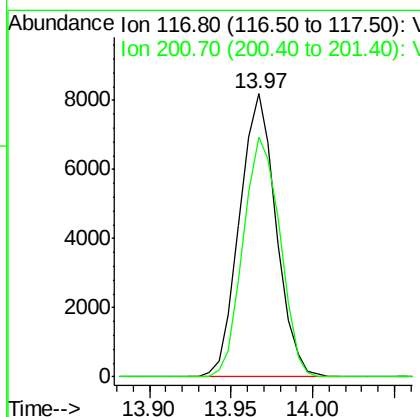
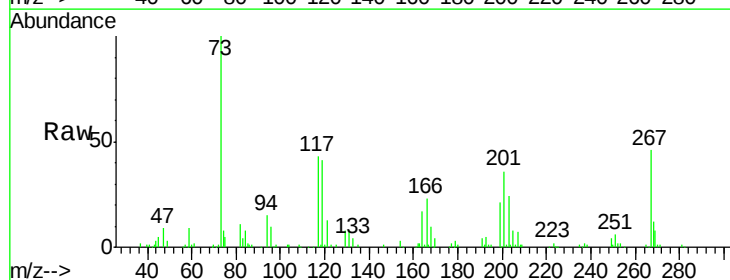
Manual Integrations
APPROVED

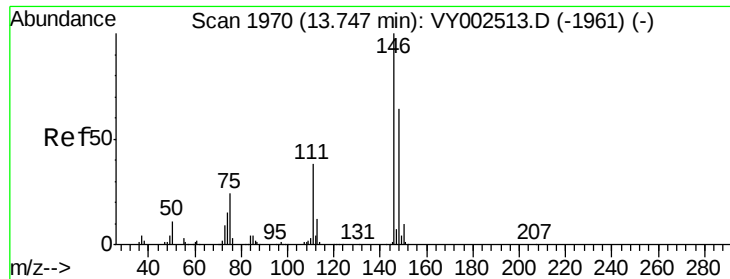
MMDadoda
5/8/2020 1:23:50 PM



#90
Hexachloroethane
Concen: 4.645 ug/l
RT: 13.97 min Scan# 2006
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.1	44.4	133.2





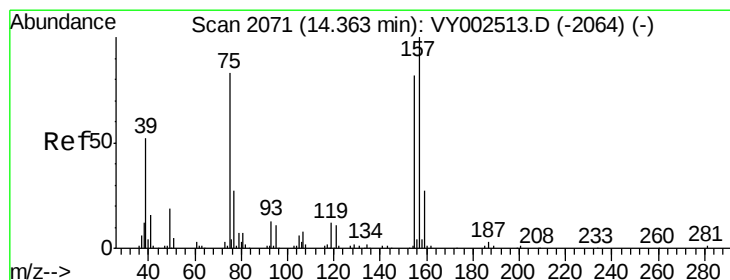
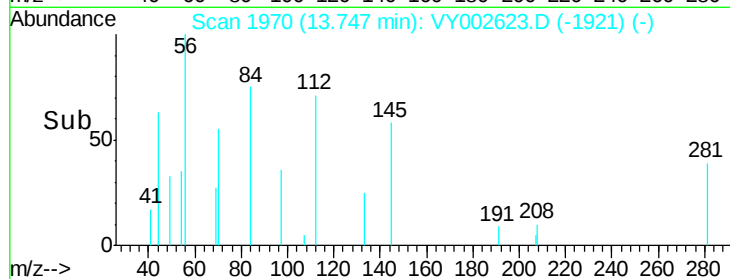
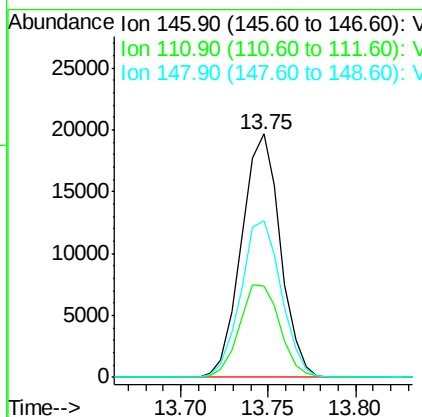
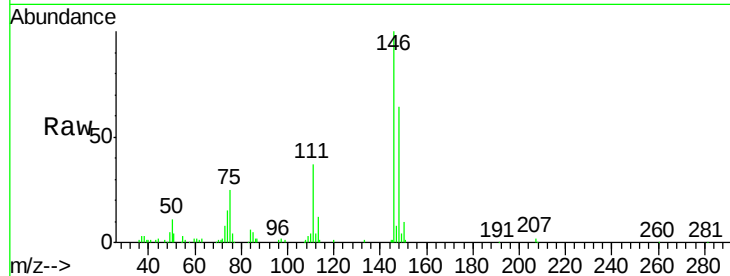
#91
 1,2-Dichlorobenzene
 Concen: 4.483 ug/l
 RT: 13.75 min Scan# 1970
 Delta R.T. -0.00 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.1	57.5
148	67.3	31.9	95.7

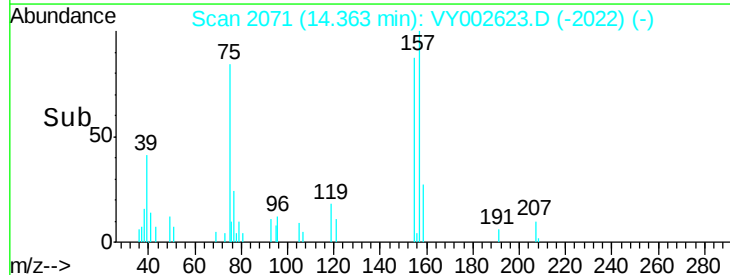
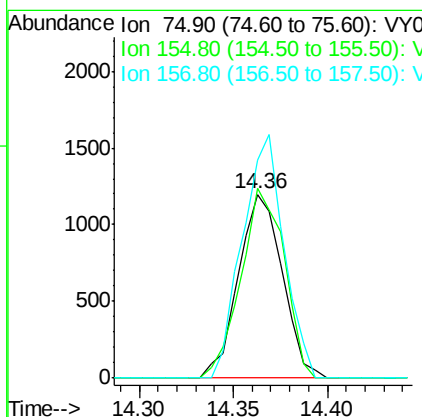
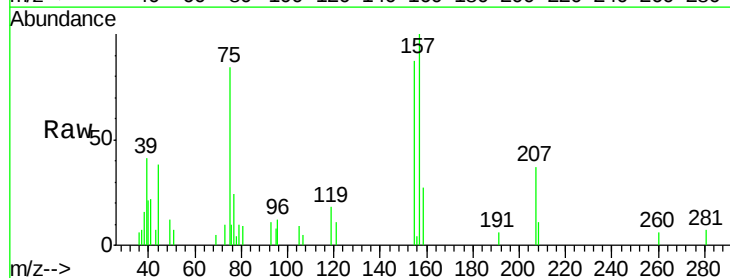
Manual Integrations
 APPROVED

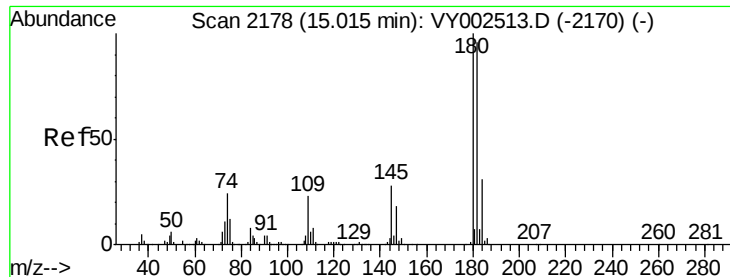
MMDadoda
 5/8/2020 1:23:50 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.075 ug/l
 RT: 14.36 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.8	51.3	153.9
157	125.2	65.0	195.0





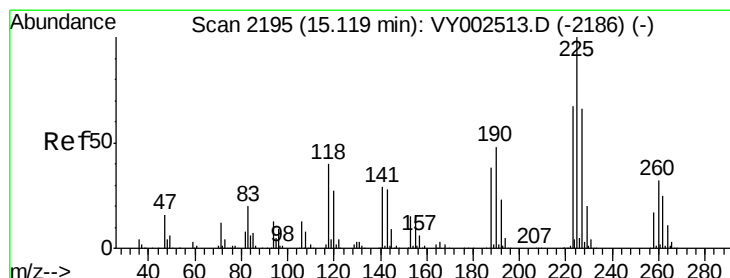
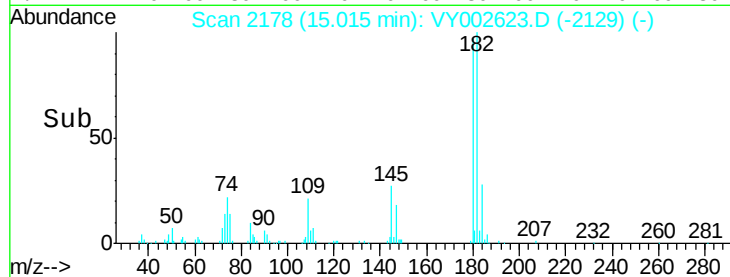
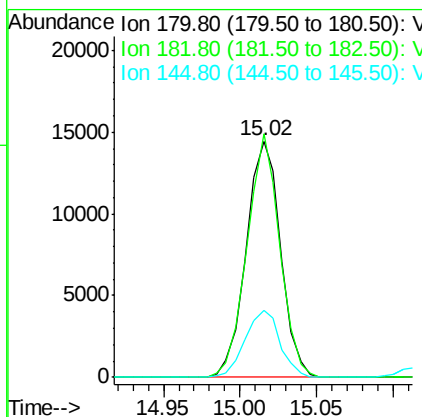
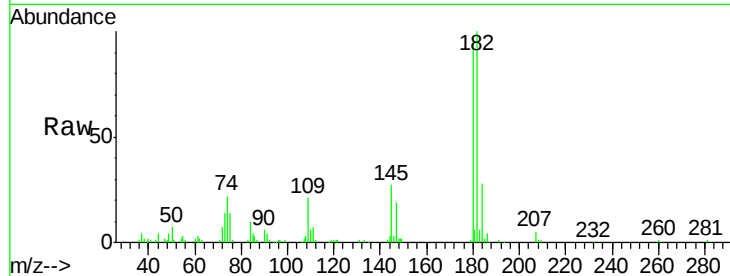
#93
 1,2,4-Trichlorobenzene
 Concen: 4.595 ug/l
 RT: 15.02 min Scan# 2178
 Delta R.T. -0.00 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.7	47.9	143.6	
145	28.6	14.4	43.0	

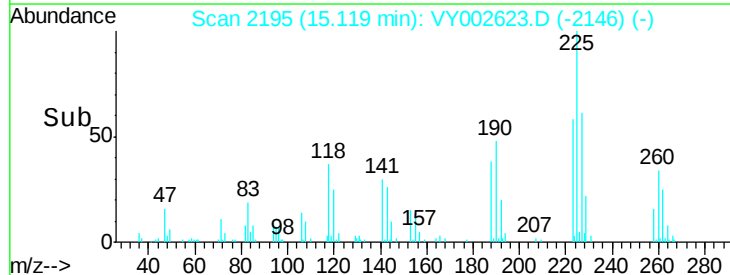
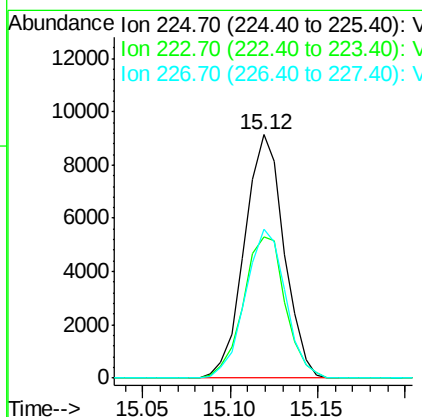
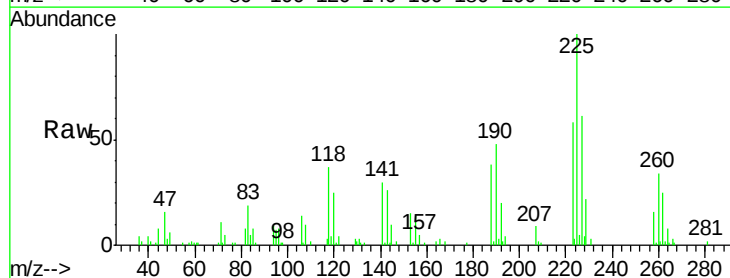
Manual Integrations
 APPROVED

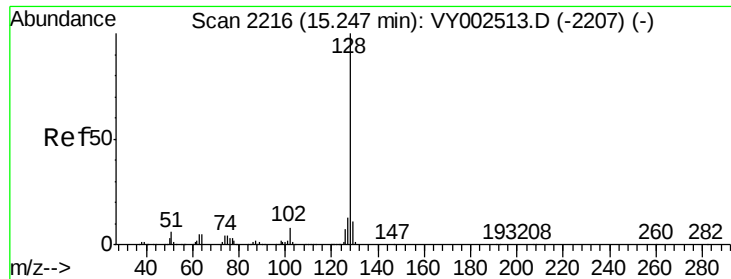
MMDadoda
 5/8/2020 1:23:50 PM



#94
 Hexachlorobutadiene
 Concen: 4.895 ug/l
 RT: 15.12 min Scan# 2195
 Delta R.T. -0.00 min
 Lab File: VY002623.D
 Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.7	32.1	96.5	
227	62.2	32.0	96.2	





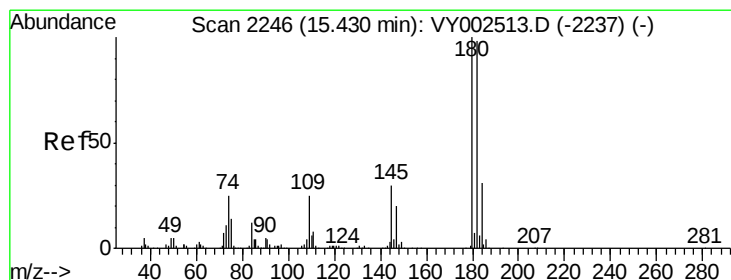
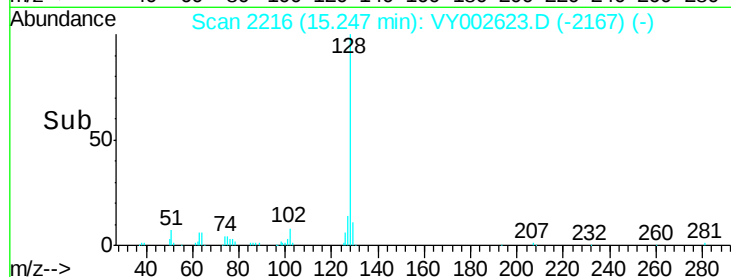
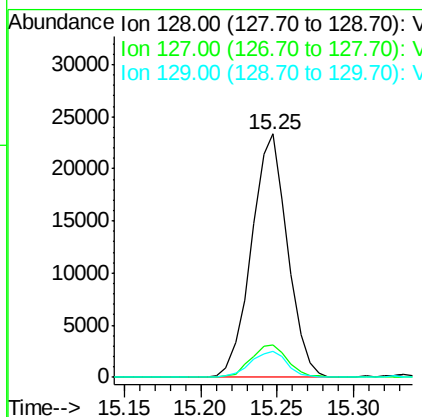
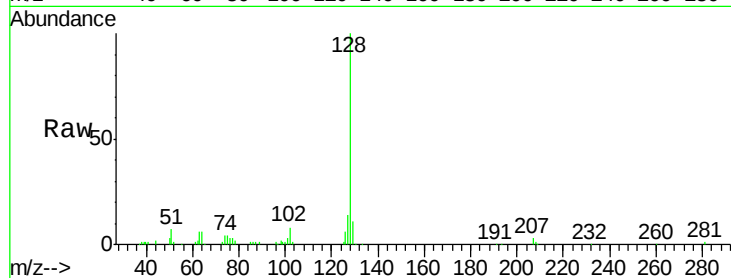
#95
Naphthalene
Concen: 4.259 ug/l
RT: 15.25 min Scan# 2216
Delta R.T. -0.00 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.5	15.7
129	11.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:50 PM



#96
1,2,3-Trichlorobenzene
Concen: 4.646 ug/l
RT: 15.44 min Scan# 2247
Delta R.T. 0.01 min
Lab File: VY002623.D
Acq: 07 May 2020 12:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.7	47.9	143.8
145	30.0	15.0	45.1

