

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022820\
 Data File : VD065351.D
 Acq On : 28 Feb 2020 09:55
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 10:35:29 AM

Quant Time: Feb 28 15:40:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	490242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	704095	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	635628	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	314437	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	193606	43.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.80%	
35) Dibromofluoromethane	7.92	113	209771	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
50) Toluene-d8	10.34	98	827282	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	
62) 4-Bromofluorobenzene	12.64	95	262446	50.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	200758	48.824	ug/l	100
3) Chloromethane	2.21	50	238030	45.481	ug/l	100
4) Vinyl Chloride	2.36	62	241356	45.351	ug/l	98
5) Bromomethane	2.77	94	141853	44.084	ug/l	99
6) Chloroethane	2.93	64	147208	45.315	ug/l	96
7) Trichlorofluoromethane	3.27	101	366173	48.059	ug/l	100
8) Diethyl Ether	3.71	74	104518	45.444	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.10	101	234960	48.832	ug/l	99
10) Methyl Iodide	4.30	142	250794	50.200	ug/l	99
11) Tert butyl alcohol	5.25	59	53780	204.067	ug/l	97
12) 1,1-Dichloroethene	4.06	96	218315	48.031	ug/l	100
13) Acrolein	3.93	56	63541	189.787	ug/l	99
14) Allyl chloride	4.71	41	347119	47.028	ug/l	98
15) Acrylonitrile	5.43	53	221879	217.902	ug/l	99
16) Acetone	4.17	43	264681	245.511	ug/l	98
17) Carbon Disulfide	4.41	76	703365	46.157	ug/l	98
18) Methyl Acetate	4.73	43	101048	41.674	ug/l	100
19) Methyl tert-butyl Ether	5.48	73	434206	45.810	ug/l	97
20) Methylene Chloride	4.96	84	242031	50.473	ug/l	95
21) trans-1,2-Dichloroethene	5.47	96	249418	48.270	ug/l	99
22) Diisopropyl ether	6.37	45	686293	48.232	ug/l	99
23) Vinyl Acetate	6.31	43	1829851	233.267	ug/l	99
24) 1,1-Dichloroethane	6.26	63	421909	47.804	ug/l	98
25) 2-Butanone	7.22	43	307178	225.202	ug/l	99
26) 2,2-Dichloropropane	7.21	77	373089	48.722	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	264540	48.333	ug/l	98
28) Bromochloromethane	7.55	49	156162	47.693	ug/l	99
29) Tetrahydrofuran	7.57	42	172389	215.700	ug/l	98
30) Chloroform	7.71	83	423620	47.642	ug/l	97
31) Cyclohexane	7.99	56	404221	46.614	ug/l	99
32) 1,1,1-Trichloroethane	7.90	97	382465	48.075	ug/l	100
36) 1,1-Dichloropropene	8.11	75	346669	50.602	ug/l	99
37) Ethyl Acetate	7.30	43	122814	42.882	ug/l	98
38) Carbon Tetrachloride	8.10	117	357488	51.259	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022820\
 Data File : VD065351.D
 Acq On : 28 Feb 2020 09:55
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 10:35:29 AM

Quant Time: Feb 28 15:40:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	418158	51.918	ug/l	98
40) Benzene	8.35	78	975563	50.450	ug/l	100
41) Methacrylonitrile	7.53	41	62006	37.496	ug/l	88
42) 1,2-Dichloroethane	8.43	62	247272	46.514	ug/l	99
43) Isopropyl Acetate	8.46	43	229487	44.064	ug/l	98
44) Trichloroethene	9.11	130	268364	50.066	ug/l	96
45) 1,2-Dichloropropane	9.39	63	238813	49.666	ug/l	99
46) Dibromomethane	9.48	93	117860	47.639	ug/l	98
47) Bromodichloromethane	9.67	83	317811	48.745	ug/l	98
48) Methyl methacrylate	9.46	41	114773	47.677	ug/l	97
49) 1,4-Dioxane	9.47	88	25575	881.400	ug/l	99
51) 4-Methyl-2-Pentanone	10.23	43	606054	229.111	ug/l	99
52) Toluene	10.41	92	623641	52.103	ug/l	98
53) t-1,3-Dichloropropene	10.63	75	294664	48.759	ug/l	98
54) cis-1,3-Dichloropropene	10.09	75	362921	49.732	ug/l	98
55) 1,1,2-Trichloroethane	10.80	97	165062	47.402	ug/l	96
56) Ethyl methacrylate	10.67	69	194410	48.371	ug/l	97
57) 1,3-Dichloropropane	10.95	76	287628	48.532	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.95	63	298724	235.747	ug/l	99
59) 2-Hexanone	10.99	43	473707	250.166	ug/l	98
60) Dibromochloromethane	11.14	129	214822	48.200	ug/l	99
61) 1,2-Dibromoethane	11.25	107	159080	48.250	ug/l	98
64) Tetrachloroethene	10.88	164	228680	50.727	ug/l	97
65) Chlorobenzene	11.68	112	644779	50.549	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	243500	51.155	ug/l	97
67) Ethyl Benzene	11.75	91	1173883	52.547	ug/l	100
68) m/p-Xylenes	11.86	106	901405	105.464	ug/l	99
69) o-Xylene	12.19	106	403390	53.272	ug/l	98
70) Styrene	12.20	104	708039	52.665	ug/l	100
71) Bromoform	12.37	173	125960	47.688	ug/l #	99
73) Isopropylbenzene	12.48	105	1121451	53.871	ug/l	100
74) N-amyl acetate	12.30	43	204901	44.296	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.74	83	171155	45.556	ug/l	97
76) 1,2,3-Trichloropropane	12.79	75	123130m	46.024	ug/l	
77) Bromobenzene	12.77	156	261796	50.645	ug/l	98
78) n-propylbenzene	12.83	91	1333981	53.324	ug/l	99
79) 2-Chlorotoluene	12.91	91	722327	51.542	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	917284	53.500	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.54	75	55108	44.476	ug/l	95
82) 4-Chlorotoluene	13.01	91	761815	51.203	ug/l	100
83) tert-Butylbenzene	13.23	119	795325	55.345	ug/l	97
84) 1,2,4-Trimethylbenzene	13.28	105	910357	53.047	ug/l	99
85) sec-Butylbenzene	13.41	105	1114542	53.825	ug/l	99
86) p-Isopropyltoluene	13.53	119	1025070	54.133	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	504027	50.436	ug/l	99
88) 1,4-Dichlorobenzene	13.61	146	489225	49.602	ug/l	100
89) n-Butylbenzene	13.86	91	949022	54.387	ug/l	99
90) Hexachloroethane	14.13	117	195245	50.780	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	424241	49.442	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.52	75	24833	42.891	ug/l	94

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD022820\
Data File : VD065351.D
Acq On : 28 Feb 2020 09:55
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM

Quant Time: Feb 28 15:40:22 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:26:54 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.18	180	287801	51.277	ug/l	99
94) Hexachlorobutadiene	15.28	225	187670	52.124	ug/l	99
95) Naphthalene	15.42	128	456116	49.988	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	248466	50.687	ug/l	99

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

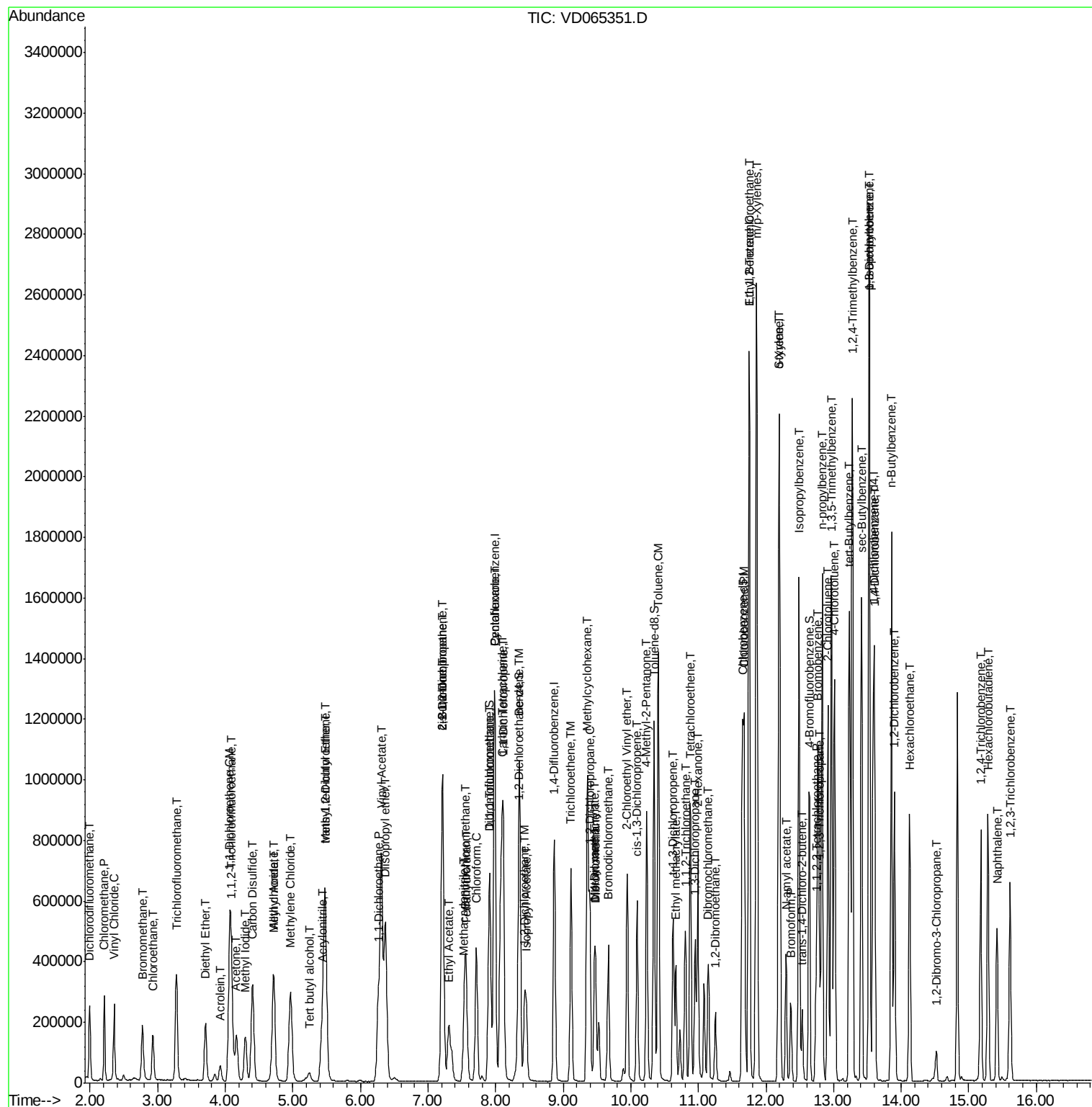
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD022820\
 Data File : VD065351.D
 Acq On : 28 Feb 2020 09:55
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

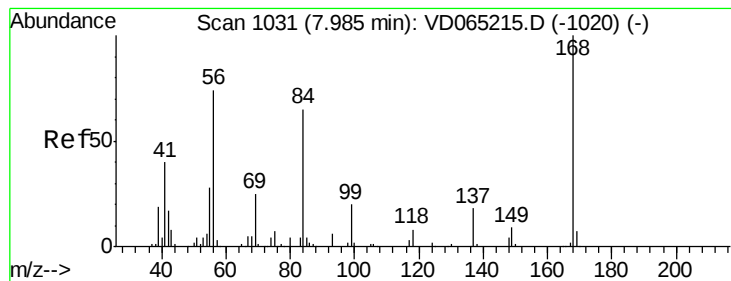
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 10:35:29 AM

Quant Time: Feb 28 15:40:22 2020
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050

Tot Ion:168 Resp: 490242

Ion Ratio Lower Upper

168 100

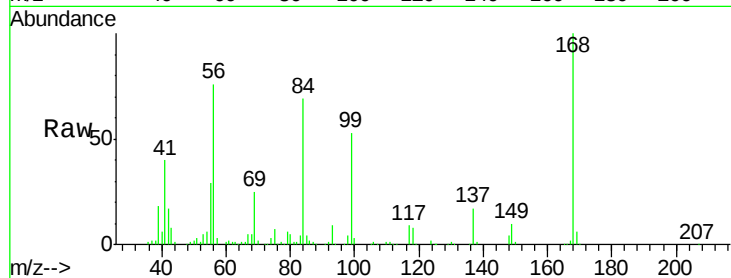
99 52.6 41.4 62.2

Manual Integrations

APPROVED

MMDadoda

3/2/2020 10:35:29 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

250000

200000

150000

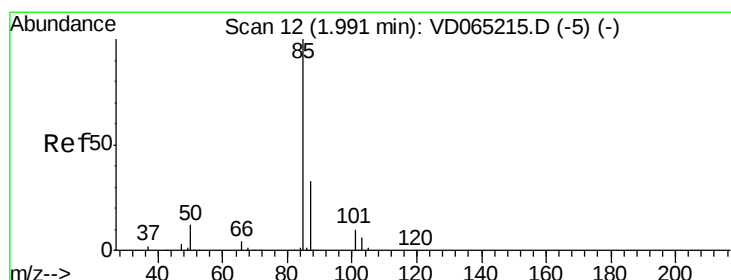
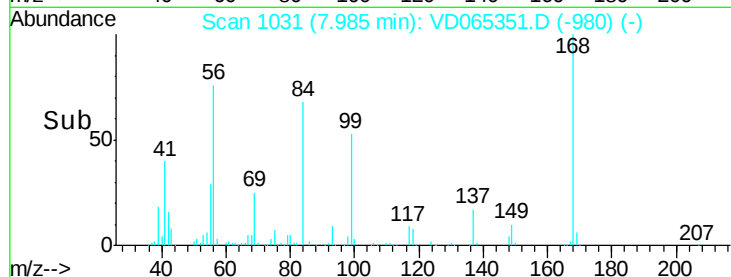
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 48.824 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065351.D

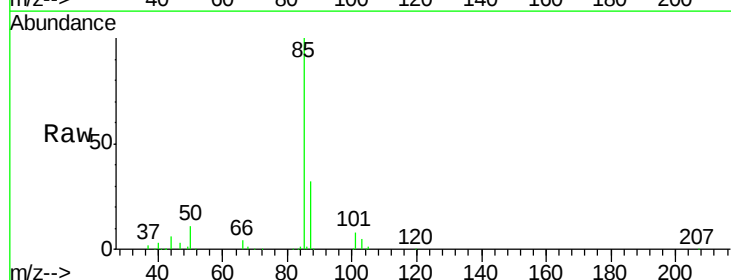
Acq: 28 Feb 2020 09:55

Tgt Ion: 85 Resp: 200758

Ion Ratio Lower Upper

85 100

87 32.4 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

150000

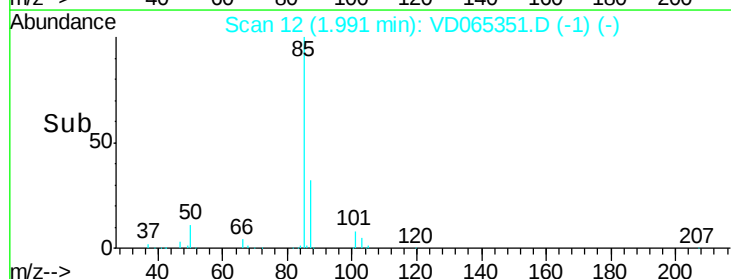
100000

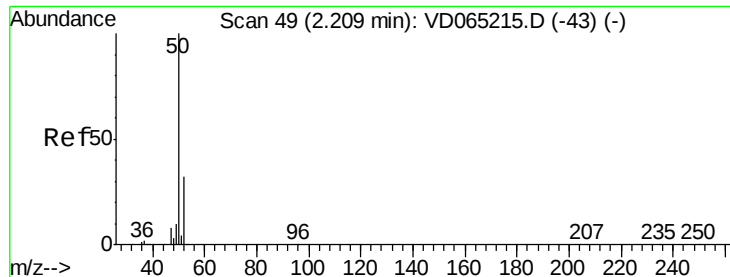
50000

0

1.90 1.95 2.00 2.05

Time-->





#3

Chloromethane

Concen: 45.481 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 238030

Ion Ratio Lower Upper

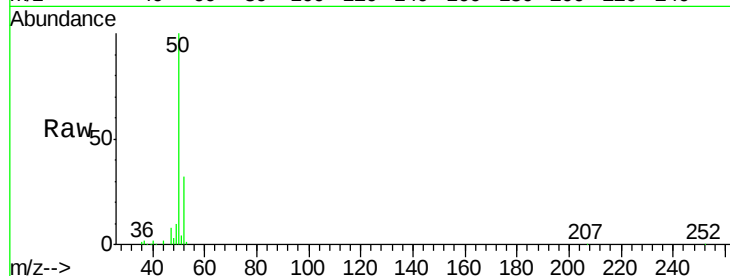
50 100

52 31.7 25.5 38.3

Manual Integrations
APPROVED

MMDadoda

3/2/2020 10:35:29 AM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

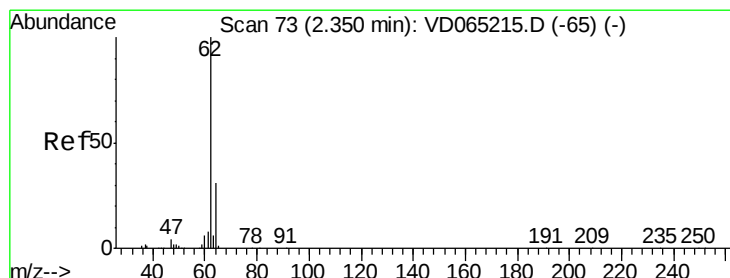
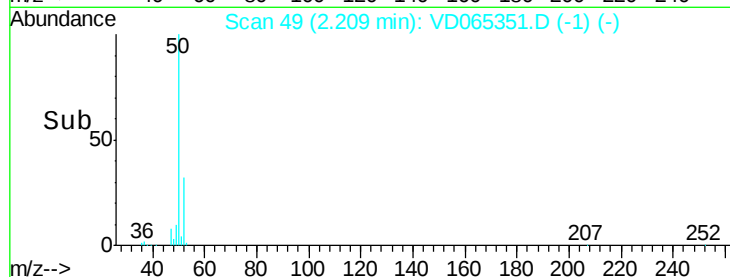
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 45.351 ug/l

RT: 2.36 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD065351.D

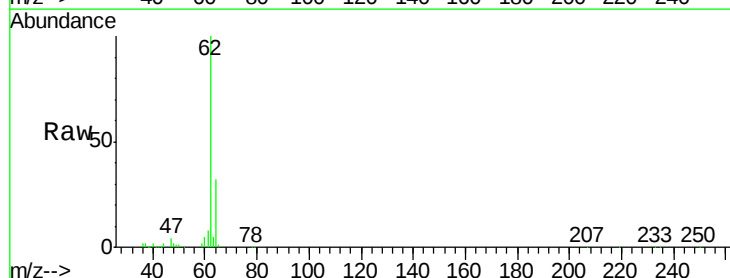
Acq: 28 Feb 2020 09:55

Tgt Ion: 62 Resp: 241356

Ion Ratio Lower Upper

62 100

64 32.2 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

2.36

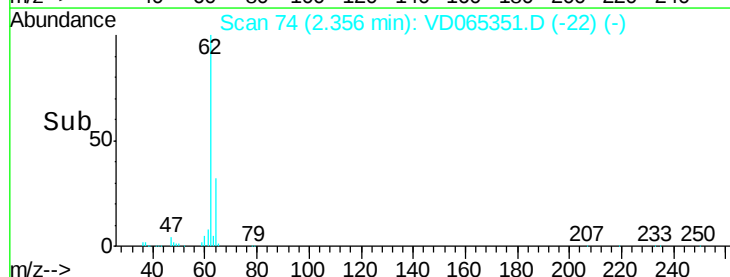
150000

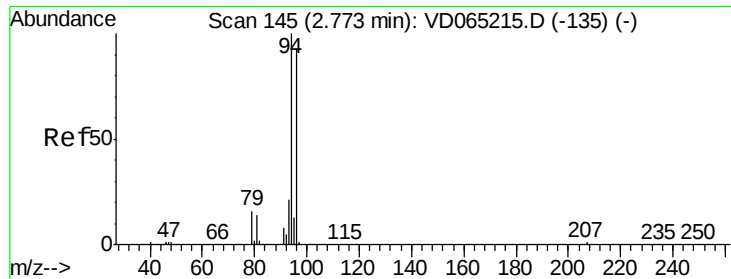
100000

50000

0

Time-->





#5

Bromomethane

Concen: 44.084 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 141853

Ion Ratio Lower Upper

94 100

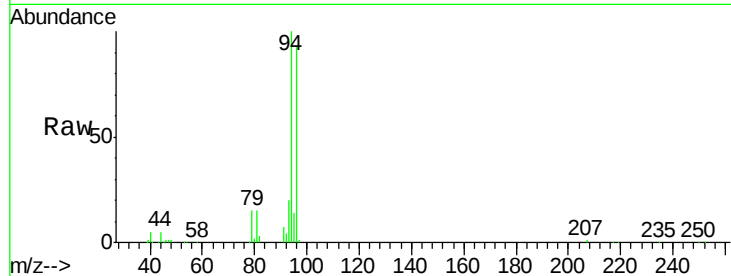
96 93.4 74.2 111.4

Manual Integrations

APPROVED

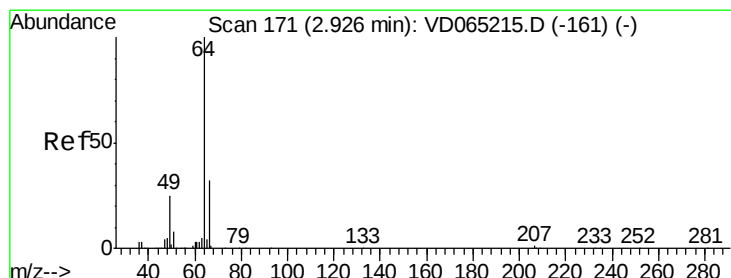
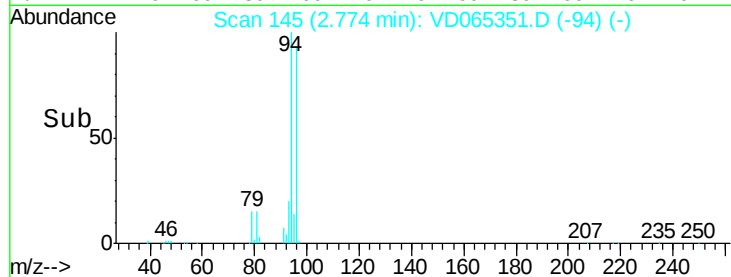
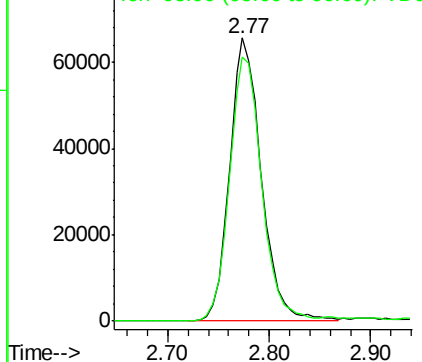
MMDadoda

3/2/2020 10:35:29 AM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 45.315 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.00 min

Lab File: VD065351.D

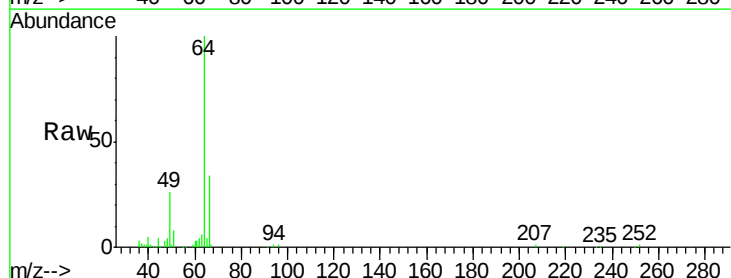
Acq: 28 Feb 2020 09:55

Tgt Ion: 64 Resp: 147208

Ion Ratio Lower Upper

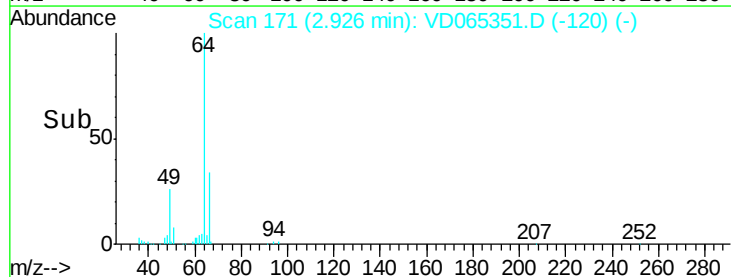
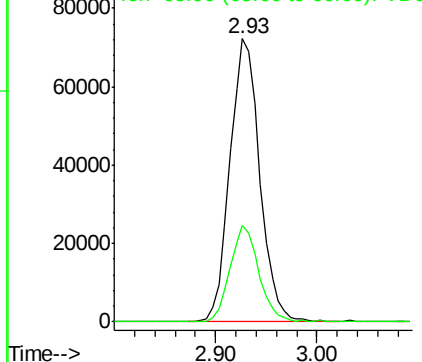
64 100

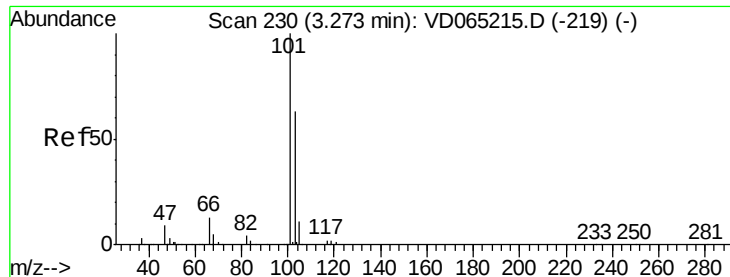
66 34.1 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

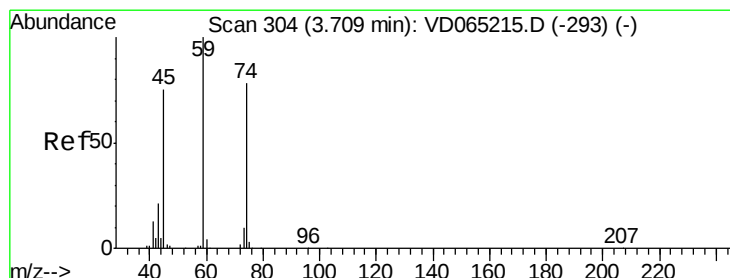
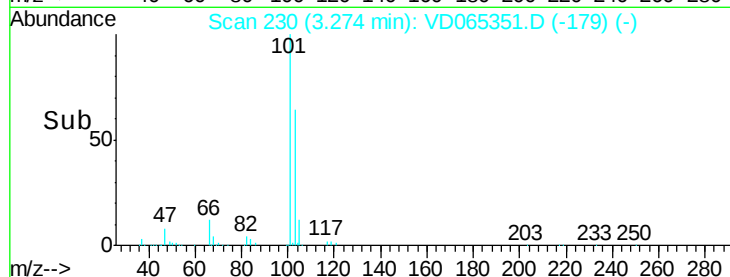
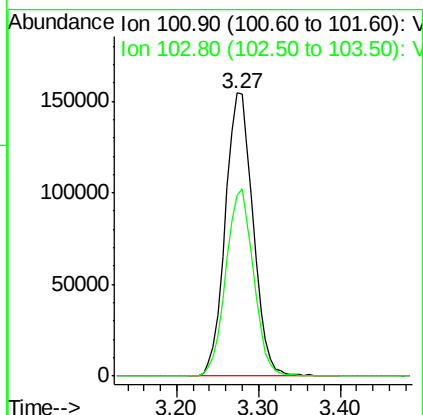
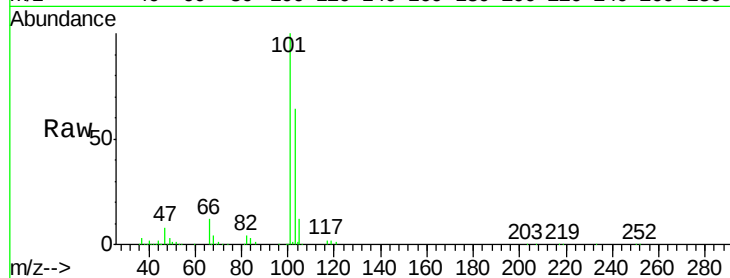
Trichlorofluoromethane
Concen: 48.059 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	50.7	76.1

Manual Integrations
APPROVED

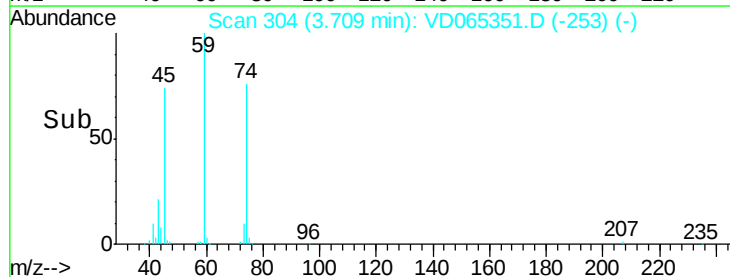
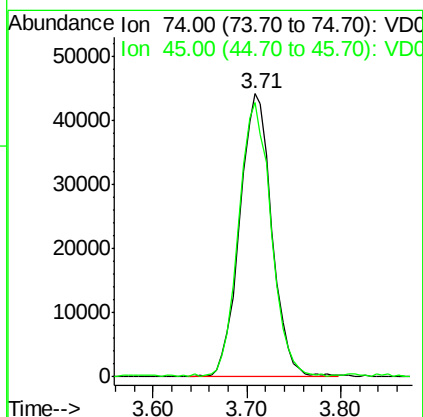
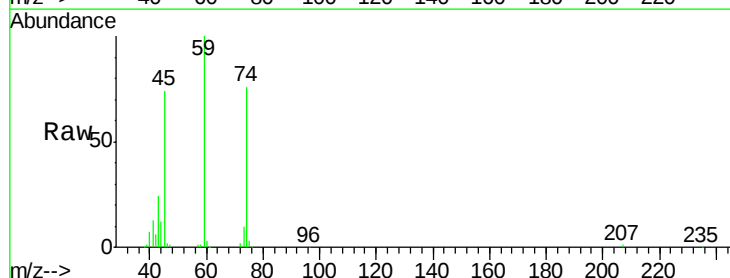
MMDadoda
3/2/2020 10:35:29 AM

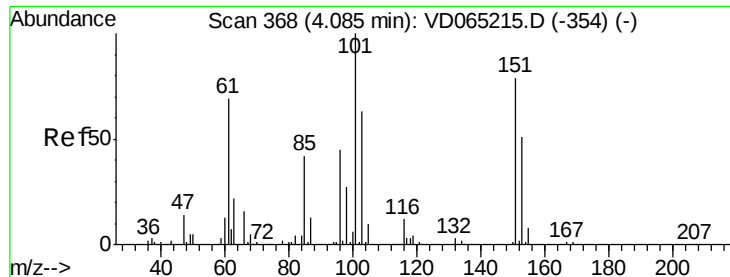


#8

Diethyl Ether
Concen: 45.444 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.9	50.0	149.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.832 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

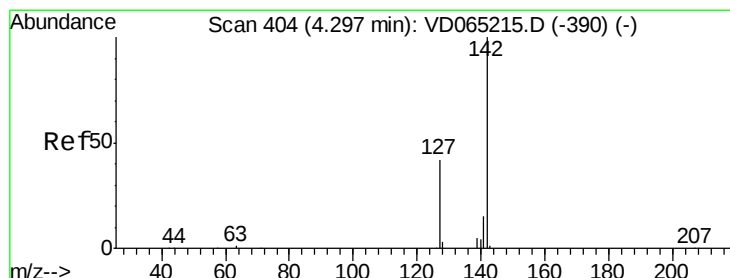
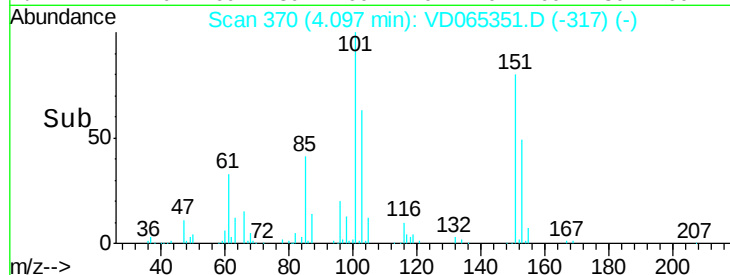
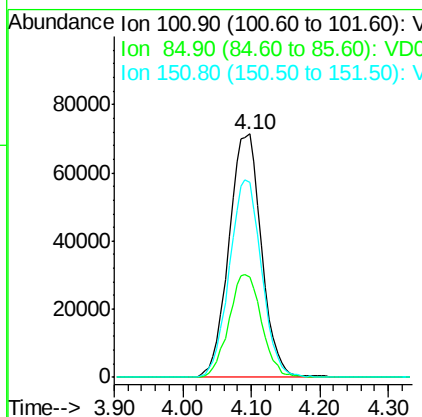
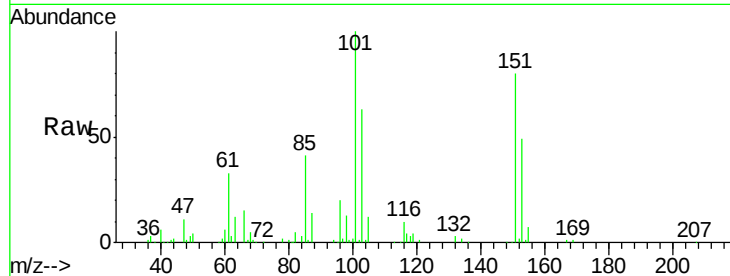
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	234960
Ion Ratio	Lower	Upper	
101	100		
85	42.4	34.2	51.2
151	80.2	63.5	95.3

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



#10

Methyl Iodide

Concen: 50.200 ug/l

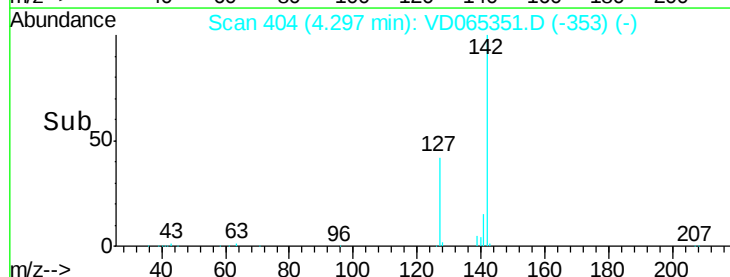
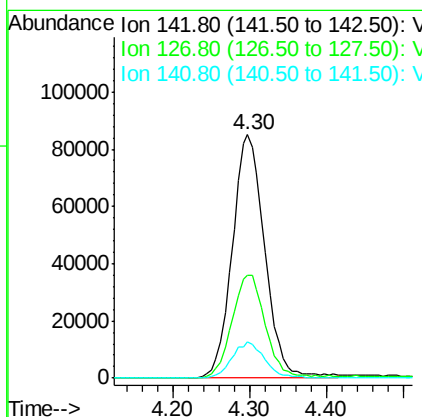
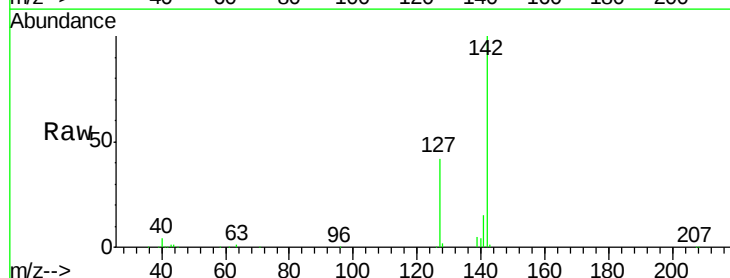
RT: 4.30 min Scan# 404

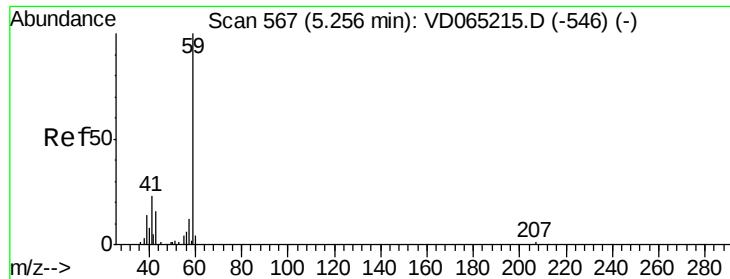
Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Tgt Ion:	142	Resp:	250794
Ion Ratio	Lower	Upper	
142	100		
127	43.2	33.8	50.8
141	14.7	11.7	17.5





#11

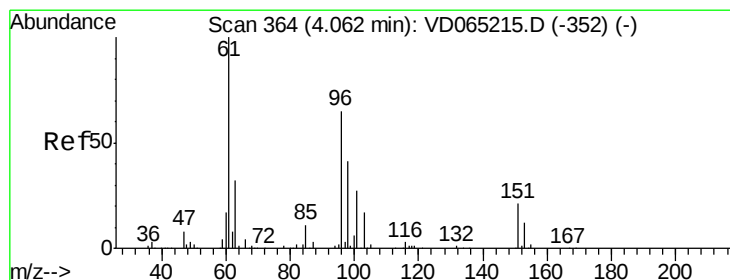
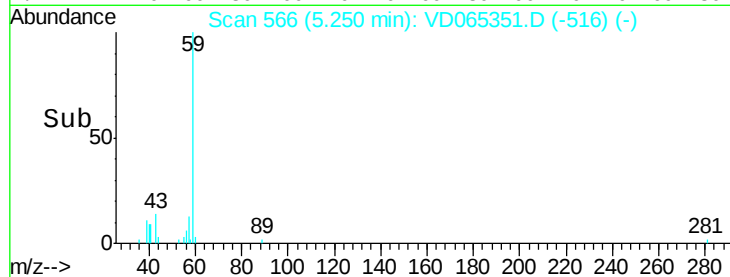
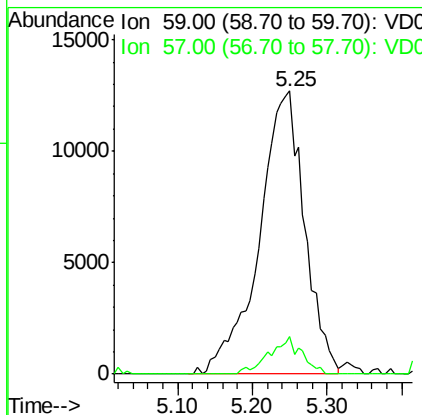
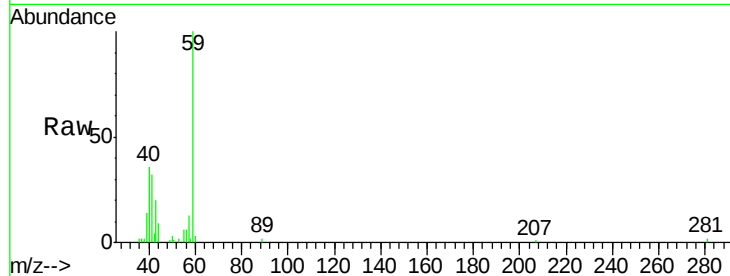
Tert butyl alcohol
 Concen: 204.067 ug/l
 RT: 5.25 min Scan# 566
 Delta R.T. -0.01 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.4	8.4	12.6

Manual Integrations
 APPROVED

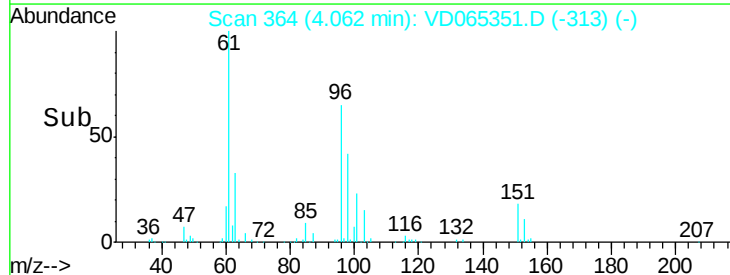
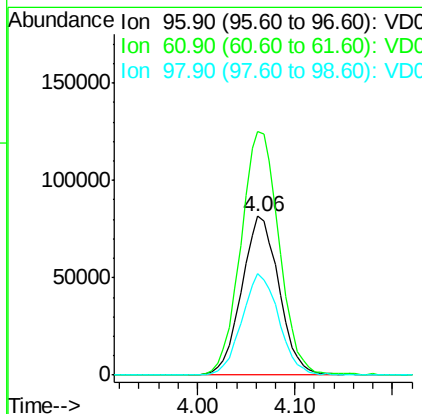
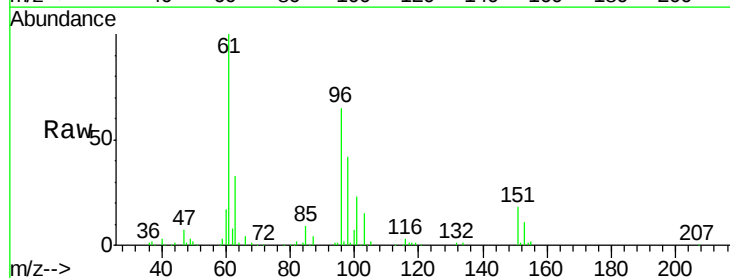
MMDadoda
 3/2/2020 10:35:29 AM

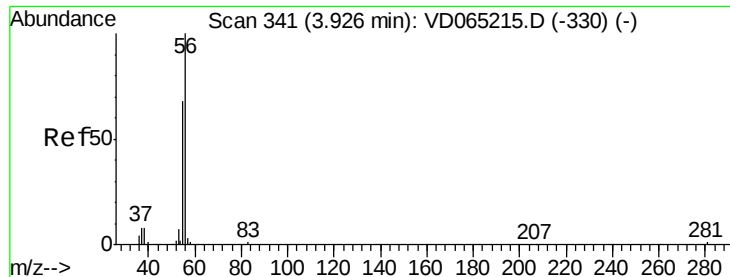


#12

1,1-Dichloroethene
 Concen: 48.031 ug/l
 RT: 4.06 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.5	123.3	184.9
98	63.9	51.0	76.4





#13

Acrolein

Concen: 189.787 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 63541

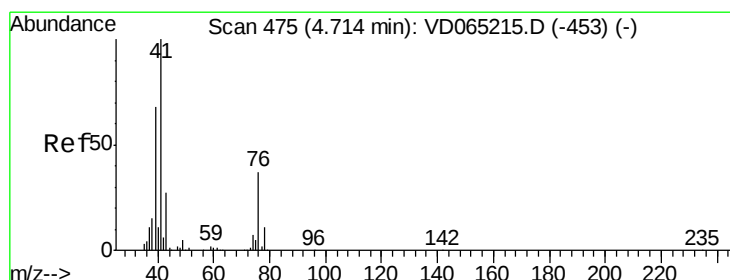
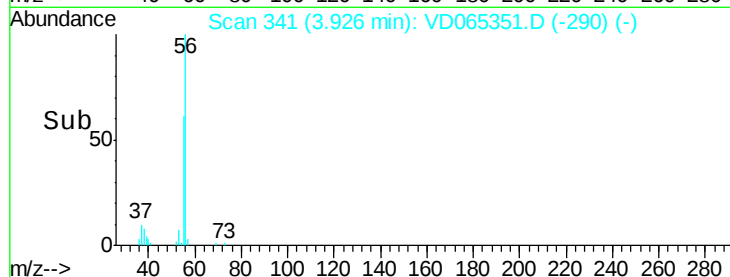
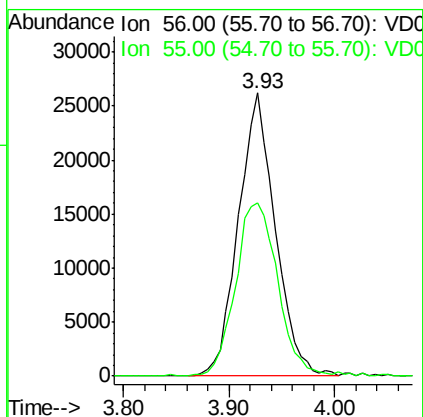
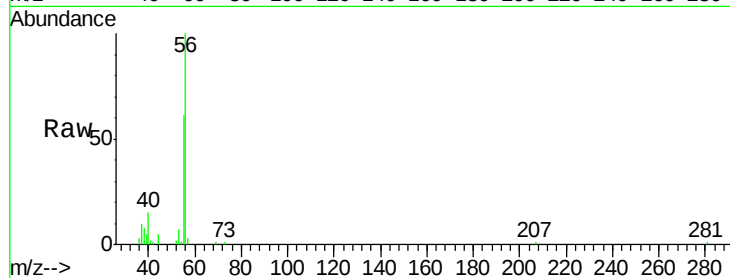
Ion Ratio Lower Upper

56 100

55 69.8 56.6 85.0

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



#14

Allyl chloride

Concen: 47.028 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

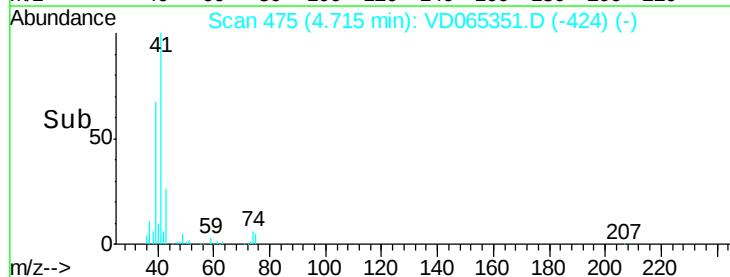
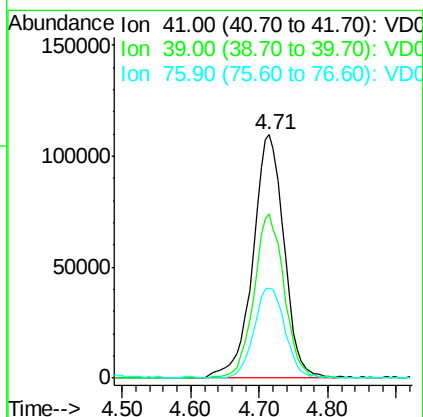
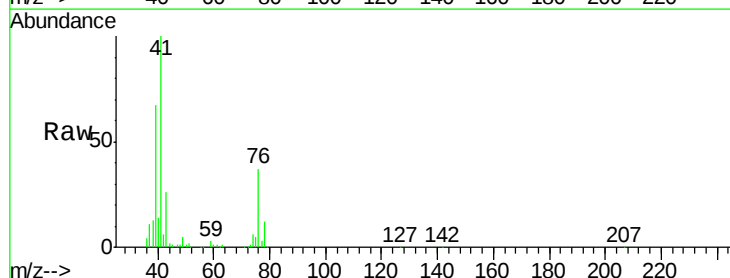
Tgt Ion: 41 Resp: 347119

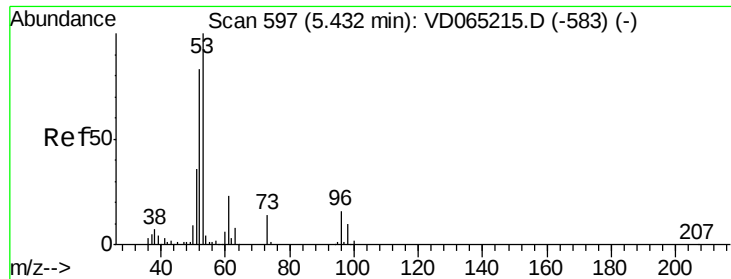
Ion Ratio Lower Upper

41 100

39 65.3 53.8 80.6

76 36.9 28.7 43.1





#15

Acrylonitrile

Concen: 217.902 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

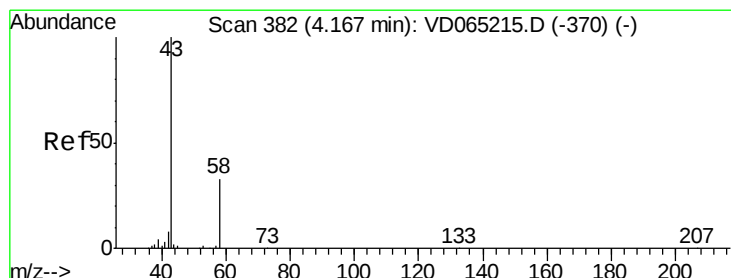
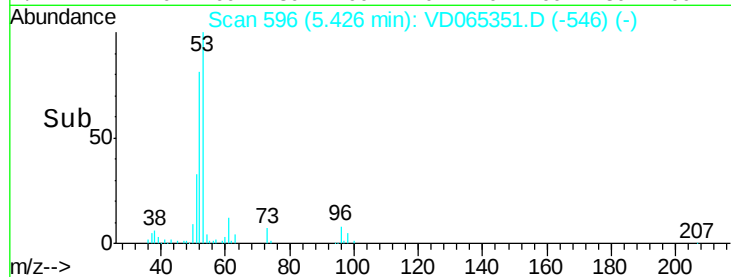
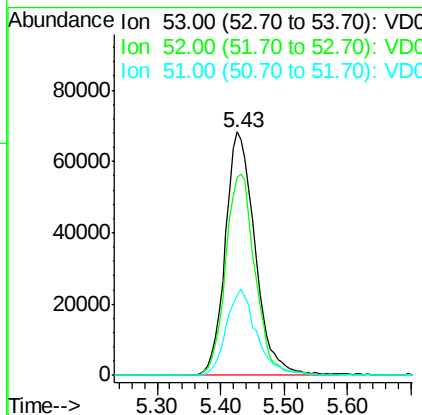
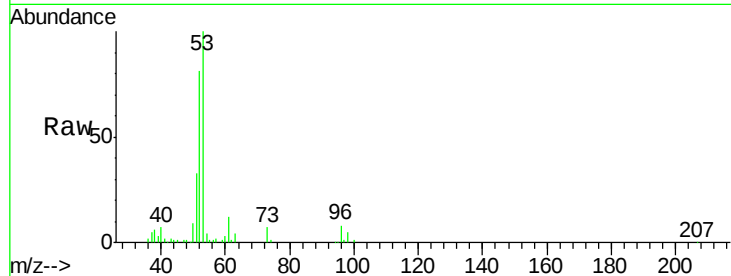
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	221879
Ion Ratio		Lower	Upper
53	100		
52	82.3	65.4	98.2
51	35.9	29.5	44.3

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



#16

Acetone

Concen: 245.511 ug/l

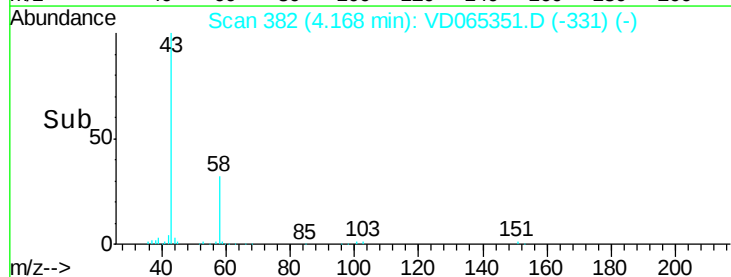
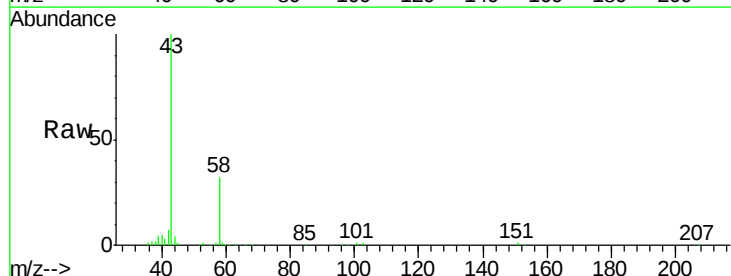
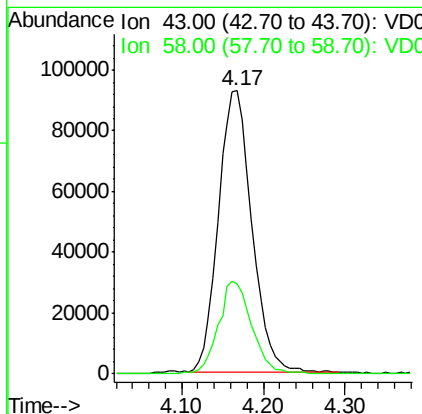
RT: 4.17 min Scan# 382

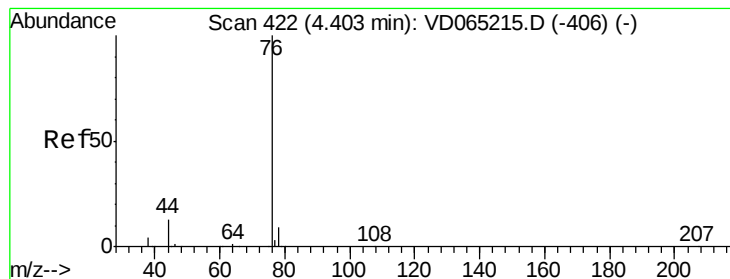
Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Tgt Ion:	43	Resp:	264681
Ion Ratio		Lower	Upper
43	100		
58	31.7	26.2	39.2





#17

Carbon Disulfide

Concen: 46.157 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 703365

Ion Ratio Lower Upper

76 100

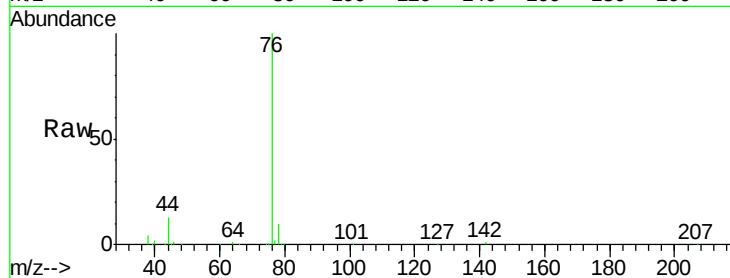
78 9.6 7.0 10.6

Manual Integrations

APPROVED

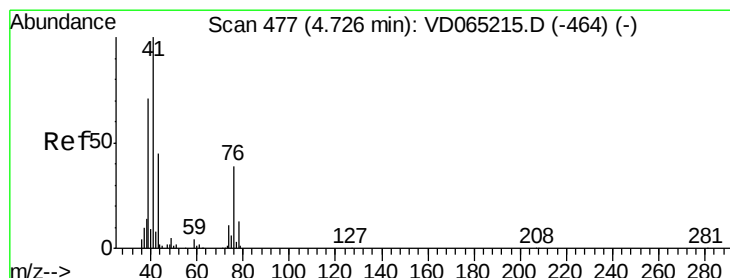
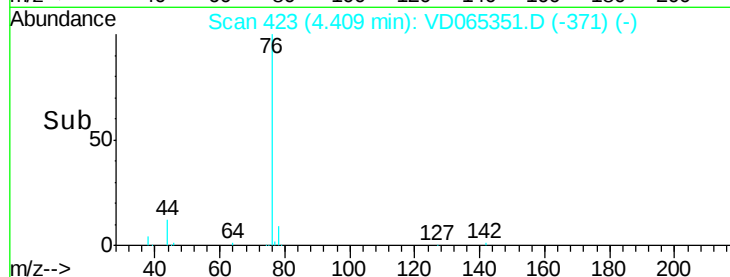
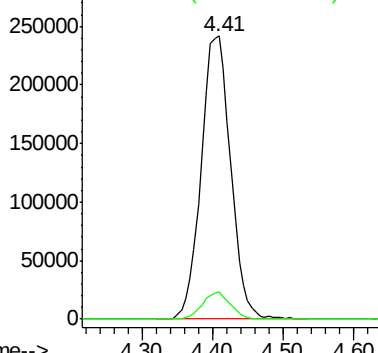
MMDadoda

3/2/2020 10:35:29 AM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 41.674 ug/l

RT: 4.73 min Scan# 477

Delta R.T. 0.00 min

Lab File: VD065351.D

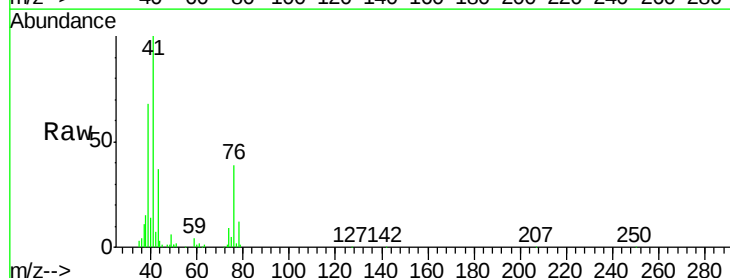
Acq: 28 Feb 2020 09:55

Tgt Ion: 43 Resp: 101048

Ion Ratio Lower Upper

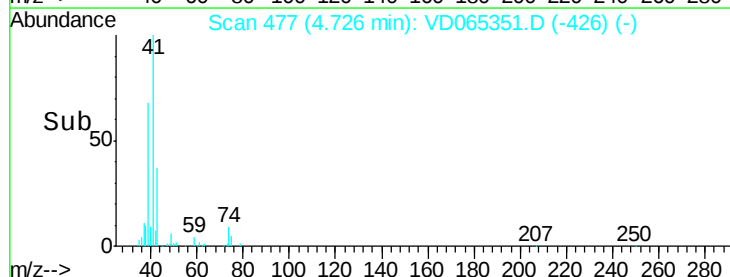
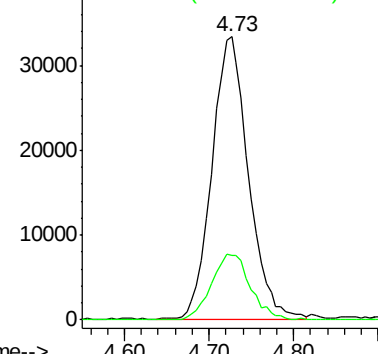
43 100

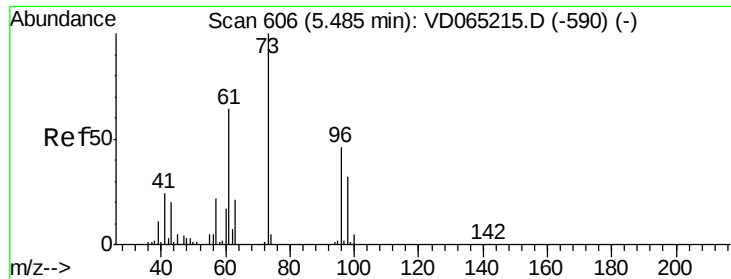
74 24.4 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





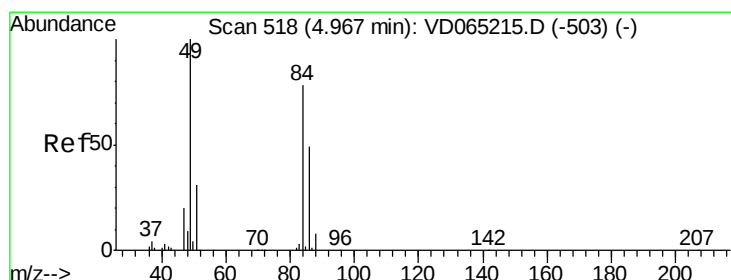
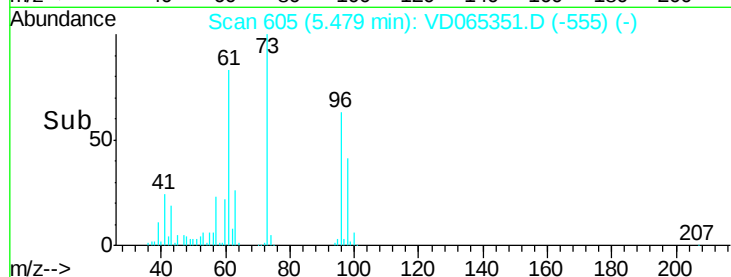
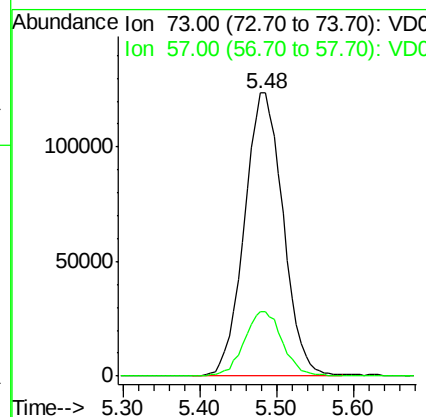
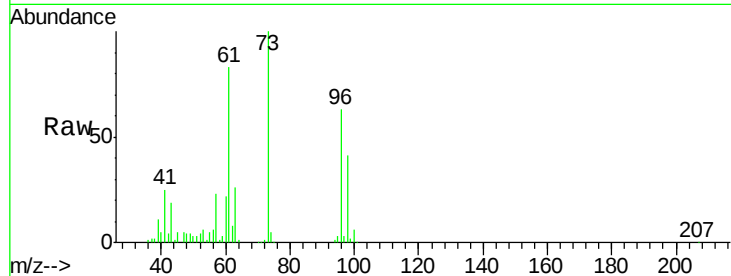
#19
Methvl tert-butvl Ether
Concen: 45.810 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 434206
Ion Ratio Lower Upper
73 100
57 22.9 17.3 25.9

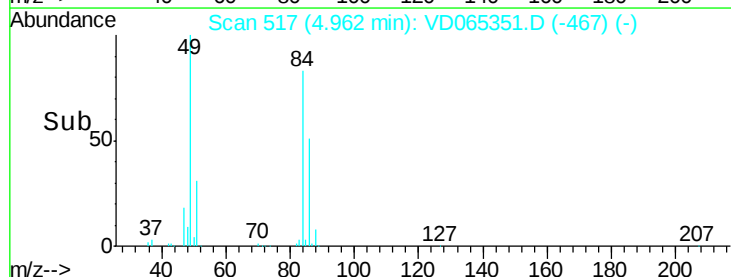
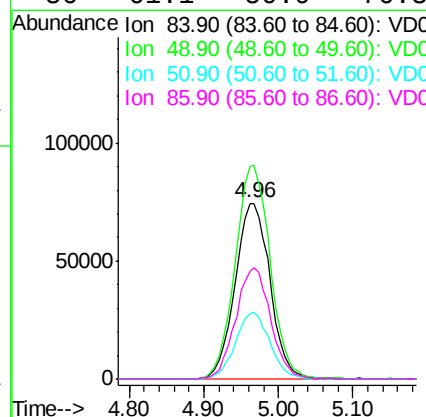
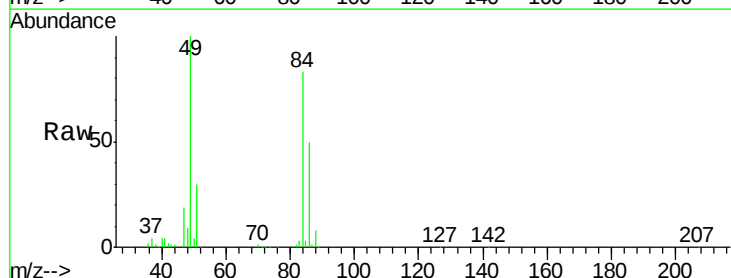
Manual Integrations
APPROVED

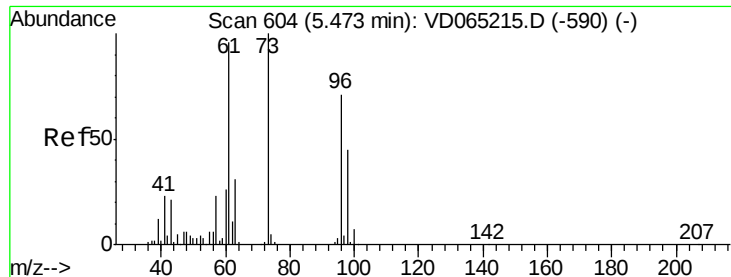
MMDadoda
3/2/2020 10:35:29 AM



#20
Methylene Chloride
Concen: 50.473 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion: 84 Resp: 242031
Ion Ratio Lower Upper
84 100
49 121.2 103.1 154.7
51 37.0 31.7 47.5
86 61.1 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 48.270 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

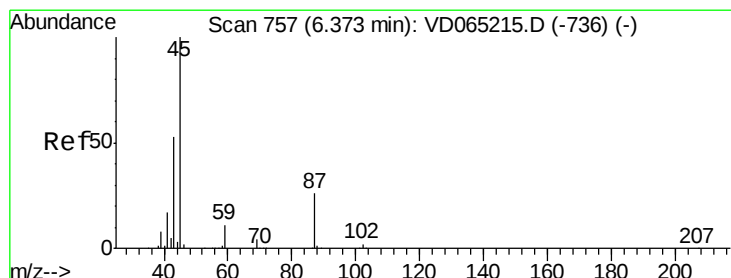
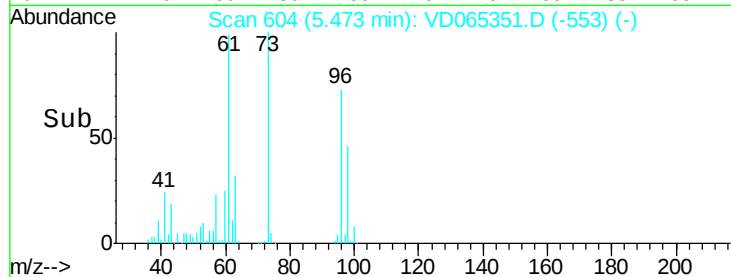
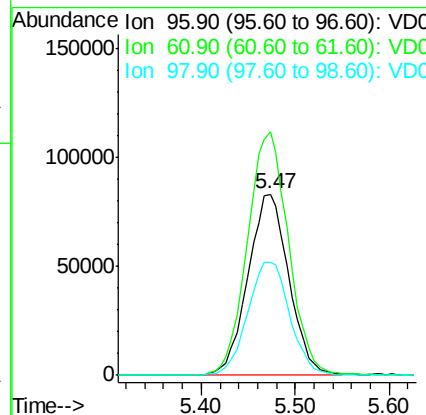
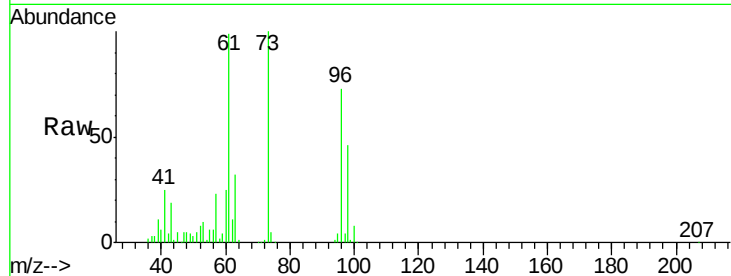
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	249418
Ion	Ratio	Lower	Upper
96	100		
61	134.5	108.3	162.5
98	62.7	50.7	76.1

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



#22

Diisopropyl ether

Concen: 48.232 ug/l

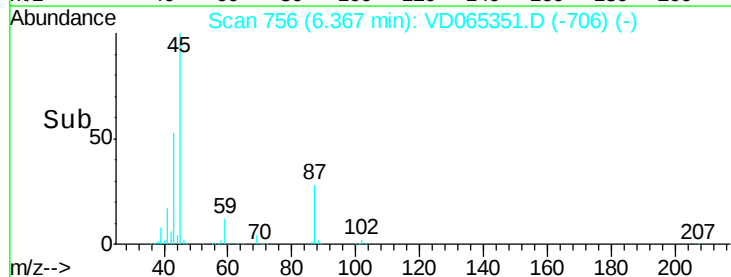
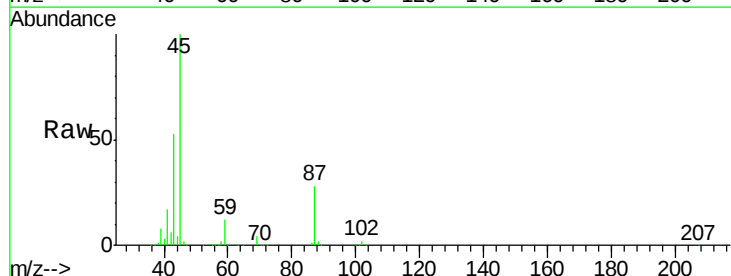
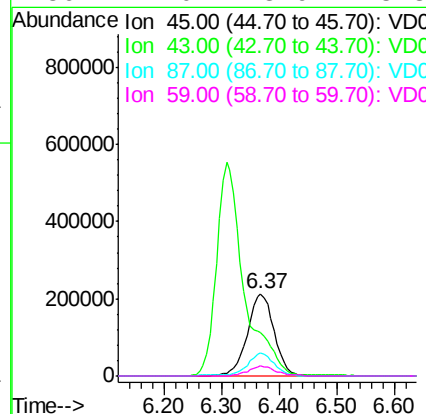
RT: 6.37 min Scan# 756

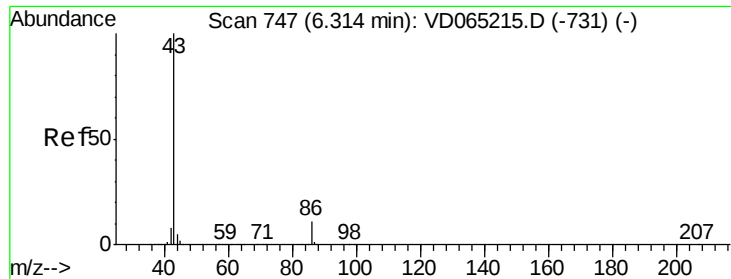
Delta R.T. -0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Tgt Ion:	45	Resp:	686293
Ion	Ratio	Lower	Upper
45	100		
43	52.5	42.6	64.0
87	27.4	21.2	31.8
59	12.0	8.9	13.3





#23

Vinyl Acetate

Concen: 233.267 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1829851

Ion Ratio Lower Upper

43 100

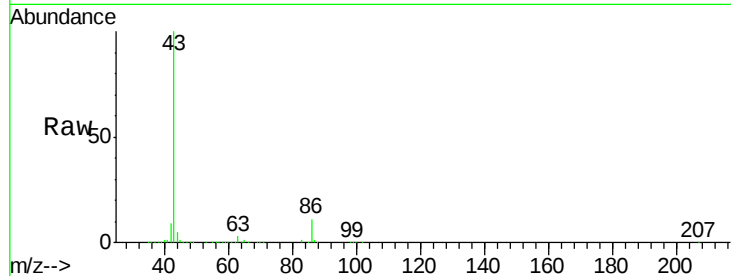
86 11.1 8.6 12.8

Manual Integrations

APPROVED

MMDadoda

3/2/2020 10:35:29 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

600000

500000

400000

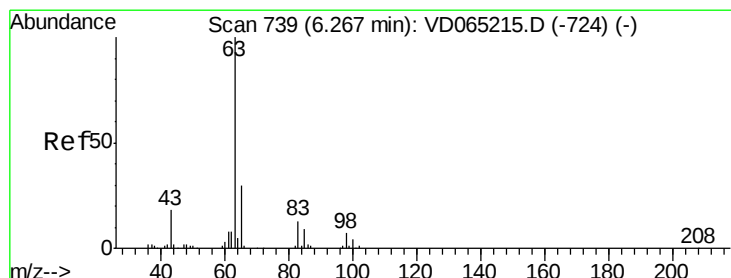
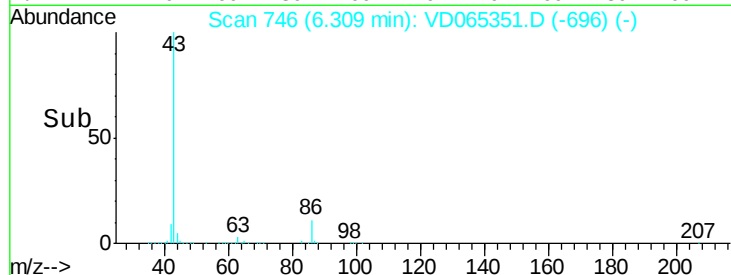
300000

200000

100000

0

Time--> 6.10 6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 47.804 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

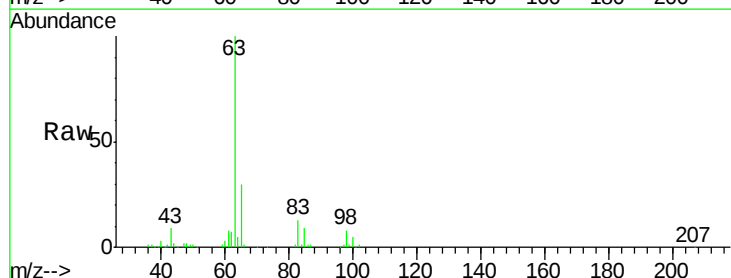
Tgt Ion: 63 Resp: 421909

Ion Ratio Lower Upper

63 100

98 7.6 3.4 10.1

100 4.6 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.26

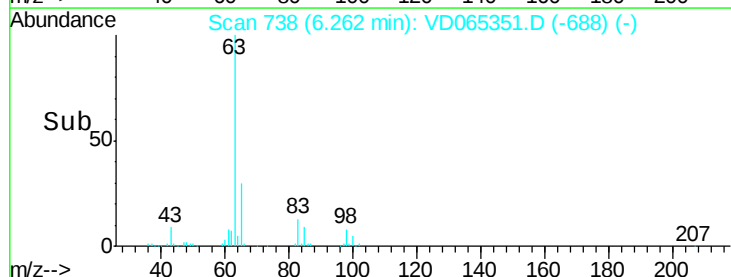
150000

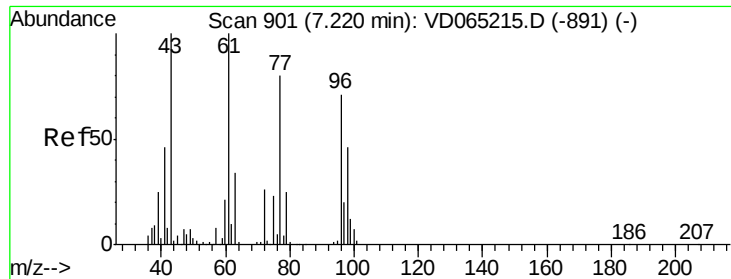
100000

50000

0

Time--> 6.10 6.20 6.30 6.40





#25

2-Butanone

Concen: 225.202 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 307178

Ion Ratio Lower Upper

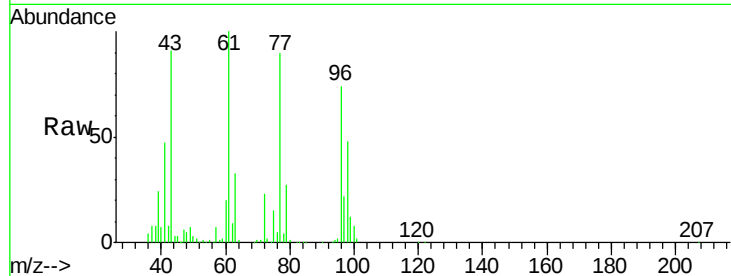
43 100

72 25.7 20.9 31.3

Manual Integrations
APPROVED

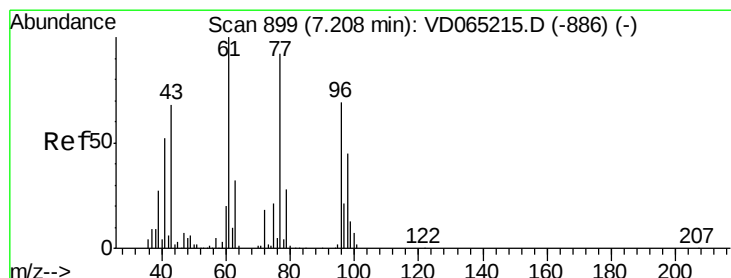
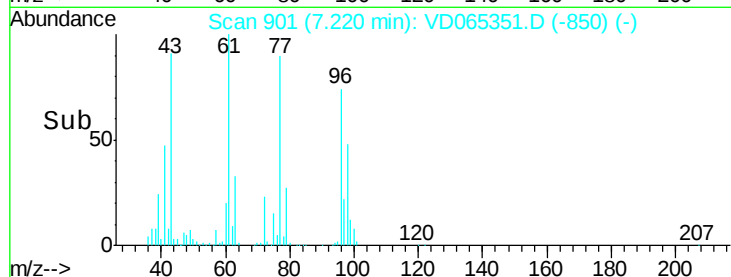
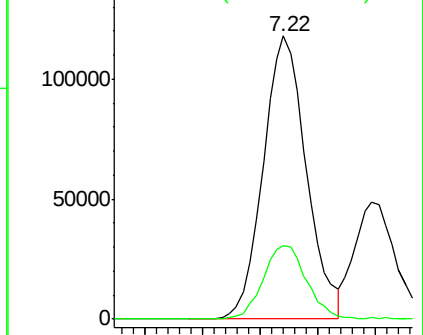
MMDadoda

3/2/2020 10:35:29 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 48.722 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD065351.D

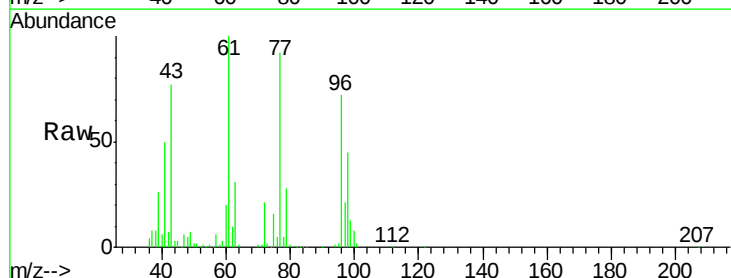
Acq: 28 Feb 2020 09:55

Tgt Ion: 77 Resp: 373089

Ion Ratio Lower Upper

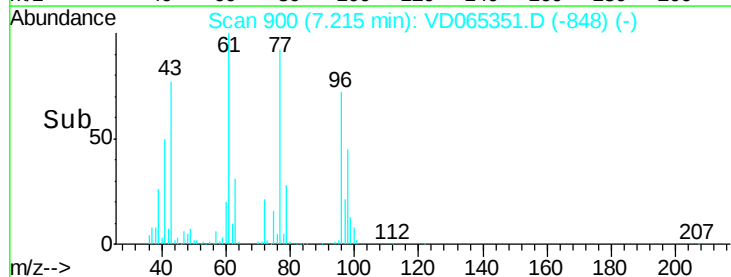
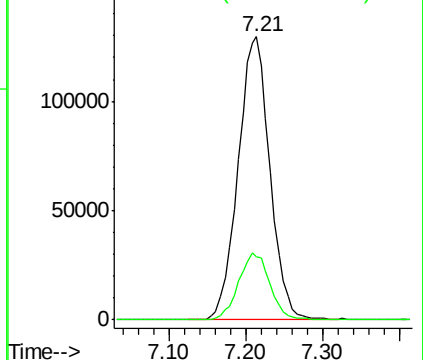
77 100

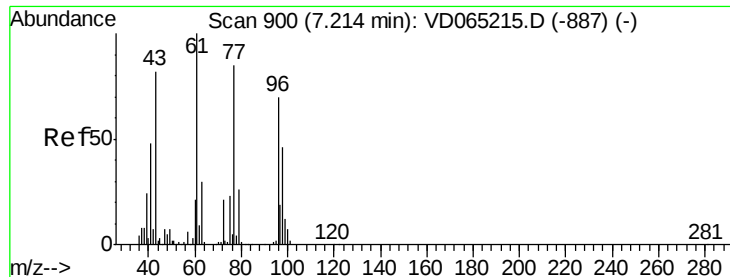
97 23.3 11.7 35.1



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

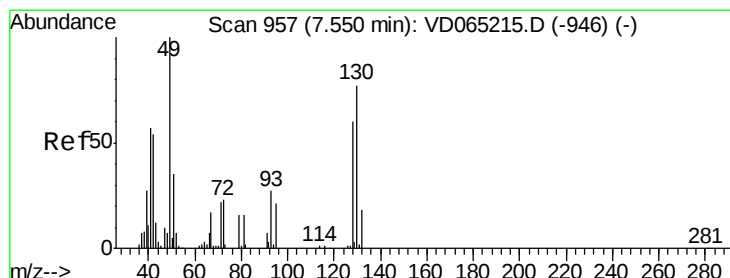
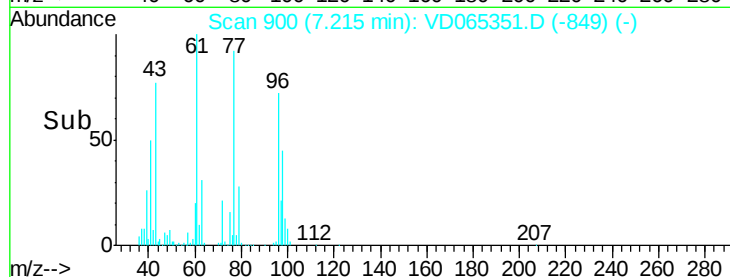
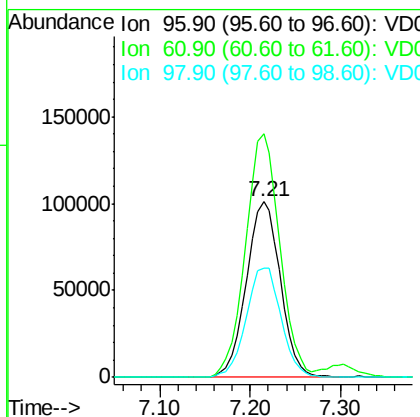
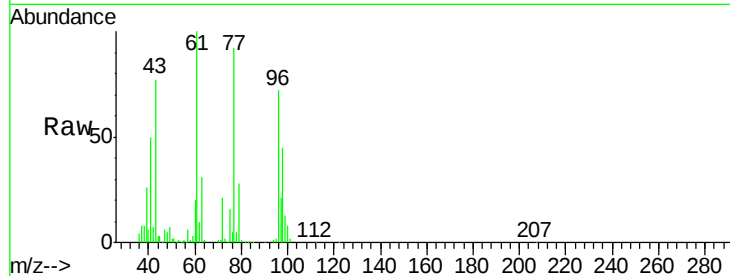
cis-1,2-Dichloroethene
 Concen: 48.333 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	264540		
61	139.1	0.0	286.0	
98	64.0	0.0	127.8	

Manual Integrations
 APPROVED

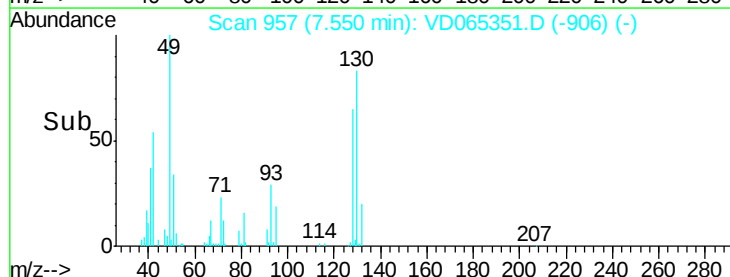
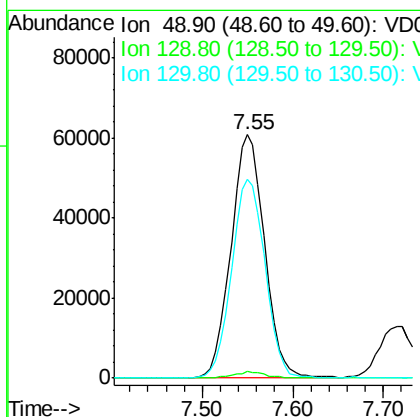
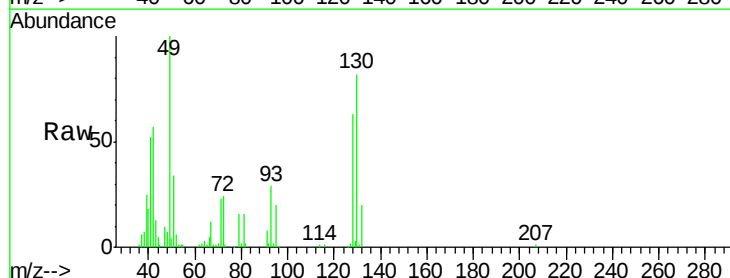
MMDadoda
 3/2/2020 10:35:29 AM

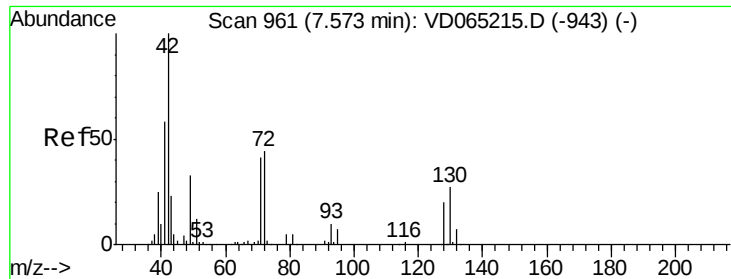


#28

Bromochloromethane
 Concen: 47.693 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	156162		
129	2.4	0.0	4.6	
130	81.6	64.7	97.1	





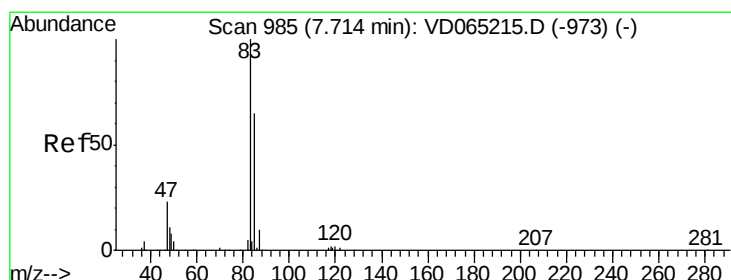
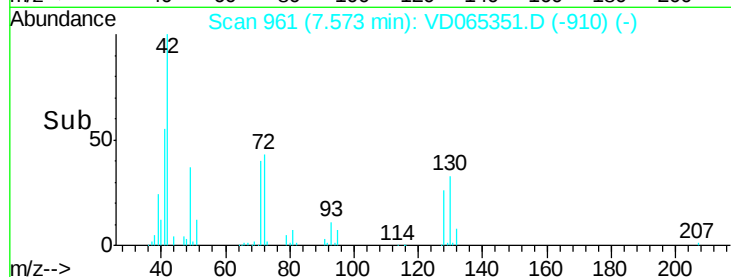
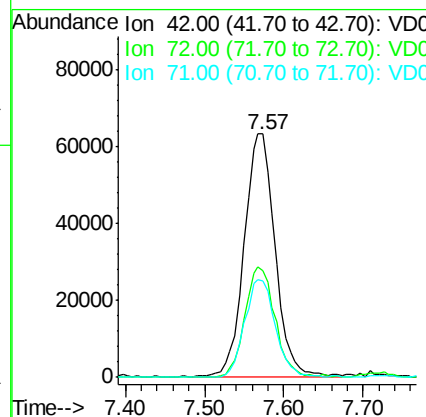
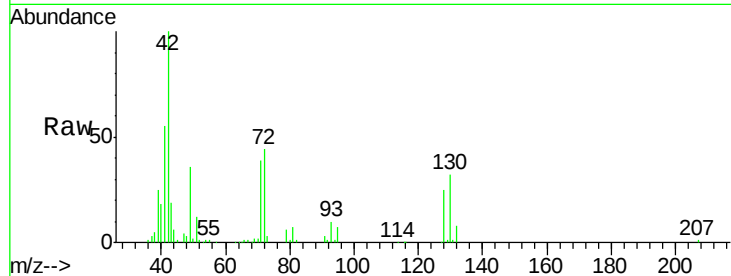
#29
Tetrahydrofuran
Concen: 215.700 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.2	33.7	50.5
71	39.8	31.4	47.2

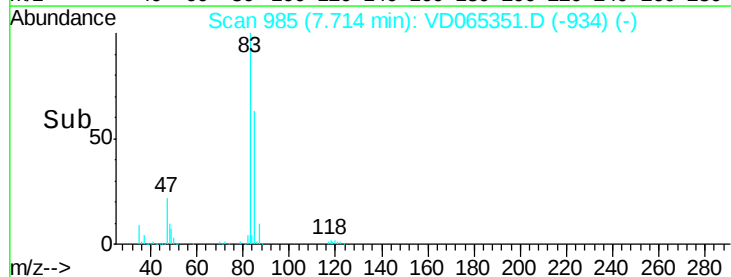
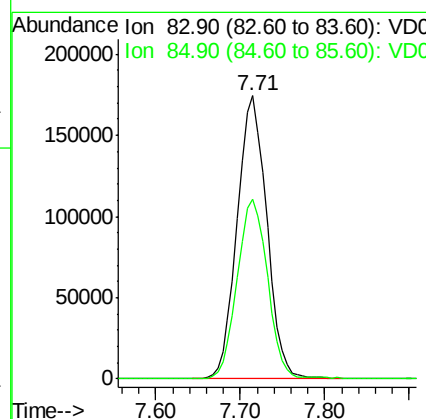
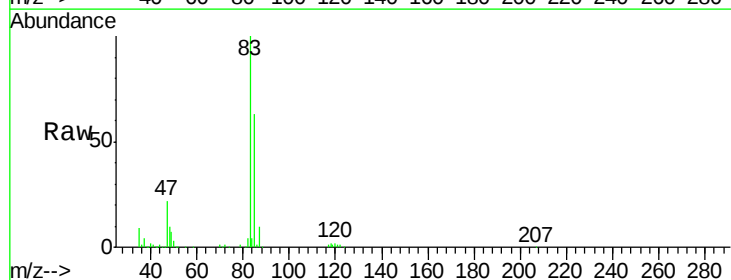
Manual Integrations
APPROVED

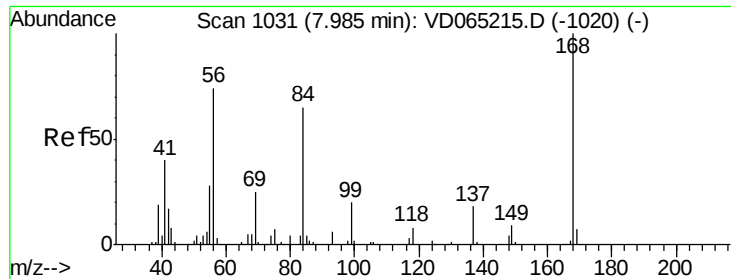
MMDadoda
3/2/2020 10:35:29 AM



#30
Chloroform
Concen: 47.642 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.3	78.5





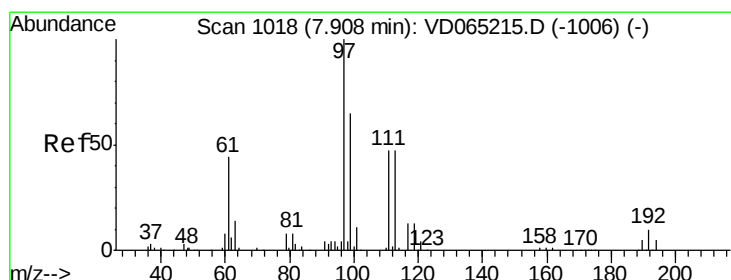
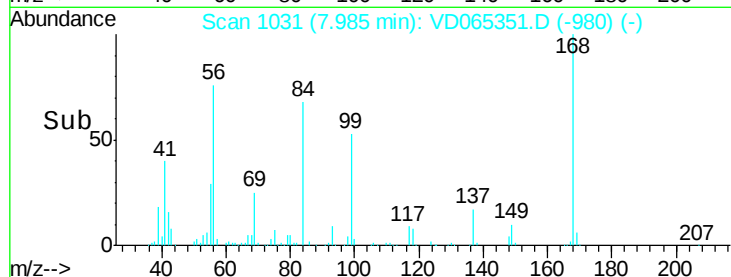
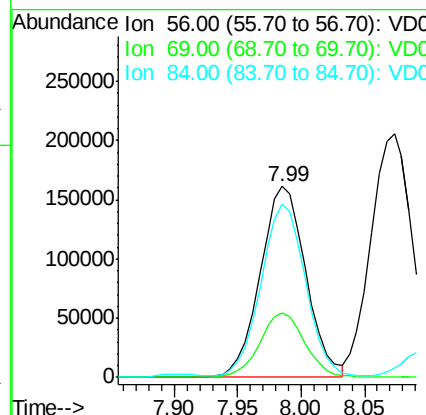
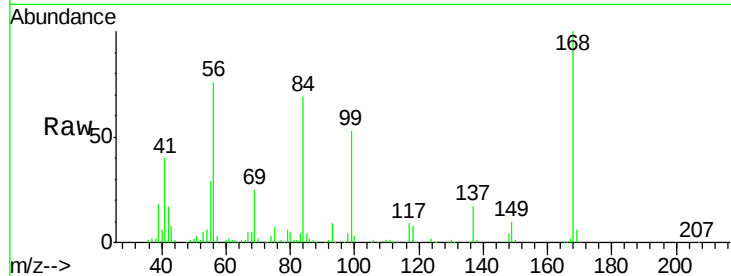
#31
Cyclohexane
Concen: 46.614 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.6	27.4	41.0
84	89.5	71.1	106.7

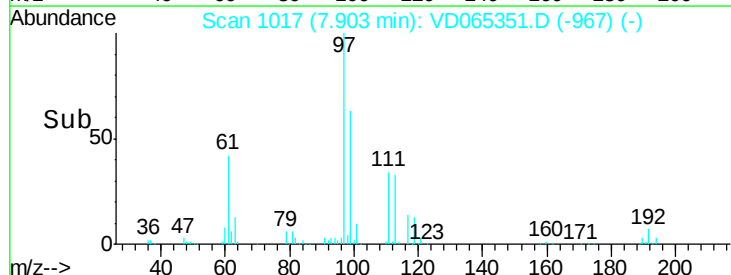
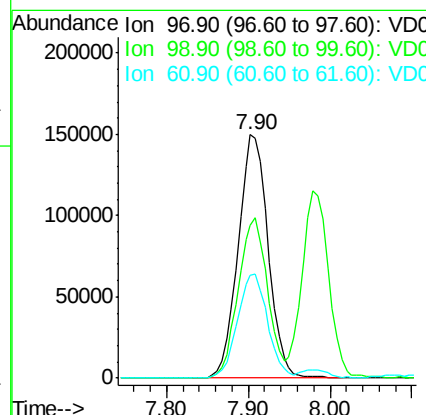
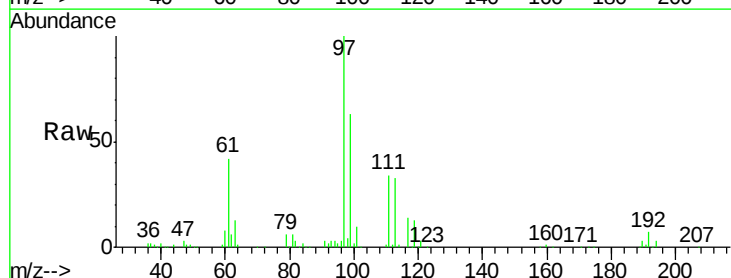
Manual Integrations
APPROVED

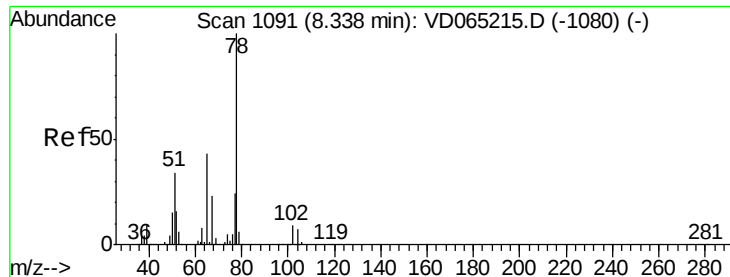
MMDadoda
3/2/2020 10:35:29 AM



#32
1,1,1-Trichloroethane
Concen: 48.075 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.4	77.2
61	43.0	34.8	52.2





#33

1,2-Dichloroethane-d4

Concen: 43.899 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 193606

Ion Ratio Lower Upper

65 100

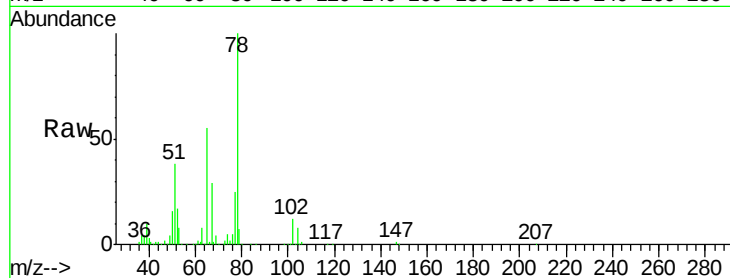
67 54.4 0.0 106.8

Manual Integrations

APPROVED

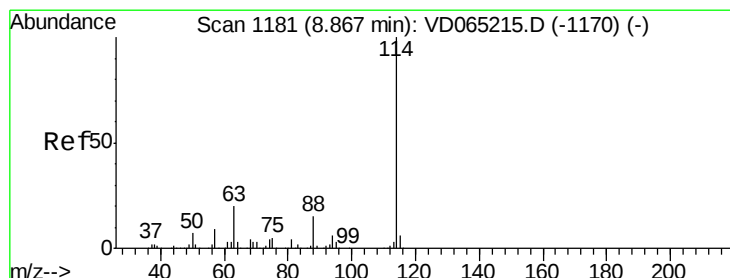
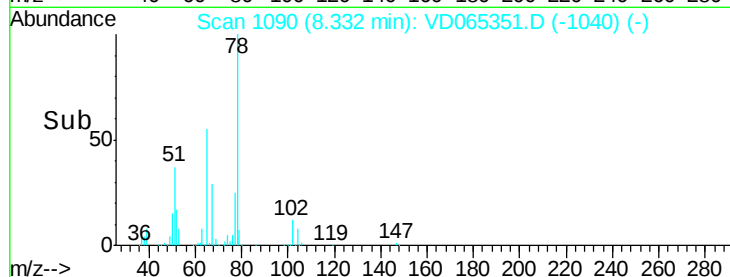
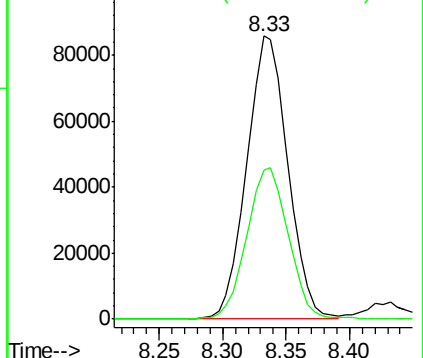
MMDadoda

3/2/2020 10:35:29 AM



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

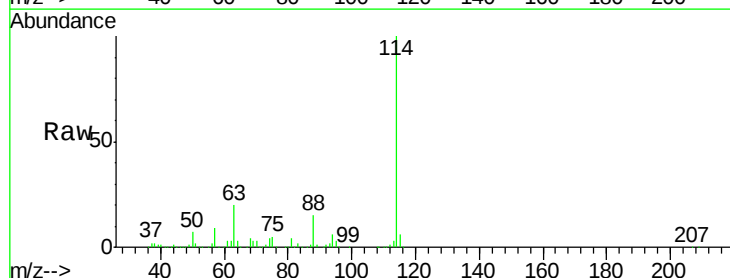
Tgt Ion: 114 Resp: 704095

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.4

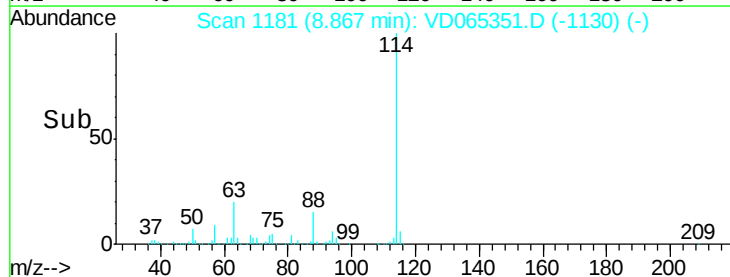
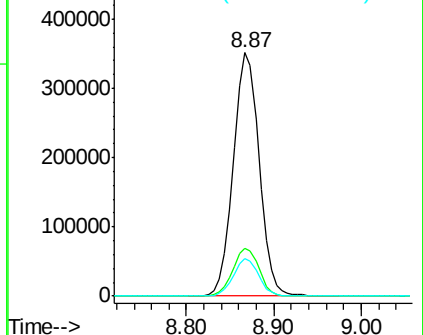
88 15.4 0.0 30.4

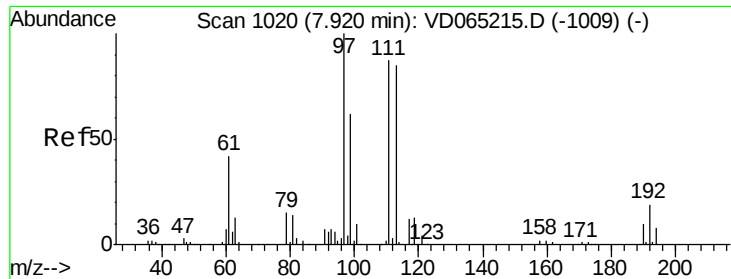


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





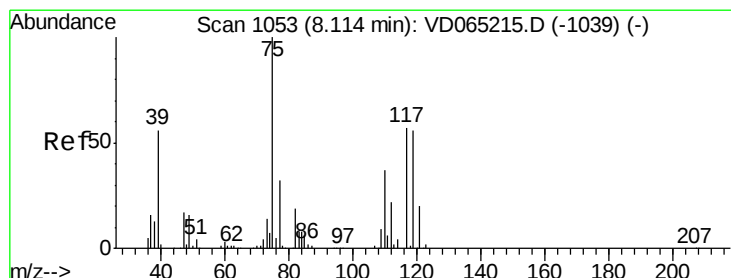
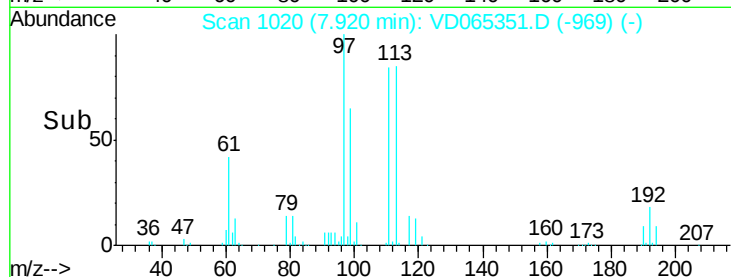
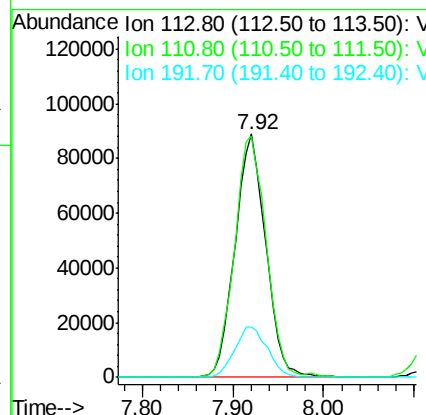
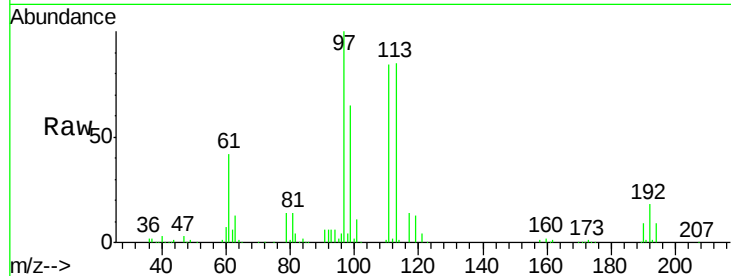
#35
 Dibromofluoromethane
 Concen: 48.862 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	209771		
111	102.7		82.9	124.3
192	22.1		17.3	25.9

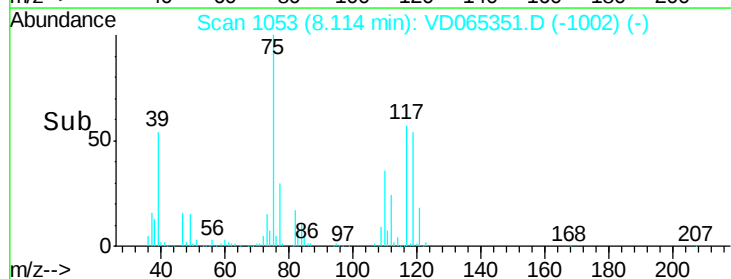
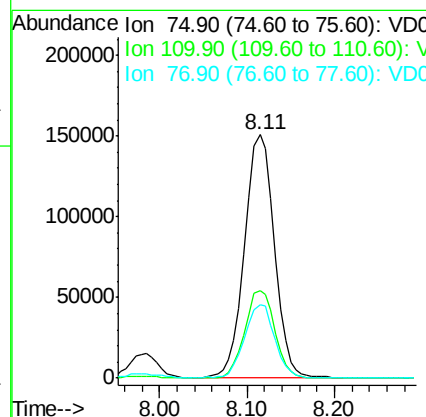
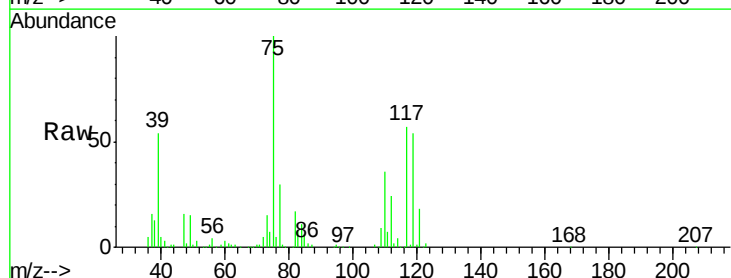
Manual Integrations
 APPROVED

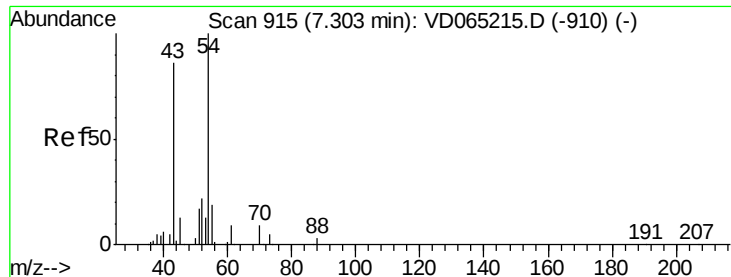
MMDadoda
 3/2/2020 10:35:29 AM



#36
 1,1-Dichloropropene
 Concen: 50.602 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	346669		
110	36.2		17.9	53.7
77	31.1		25.1	37.7





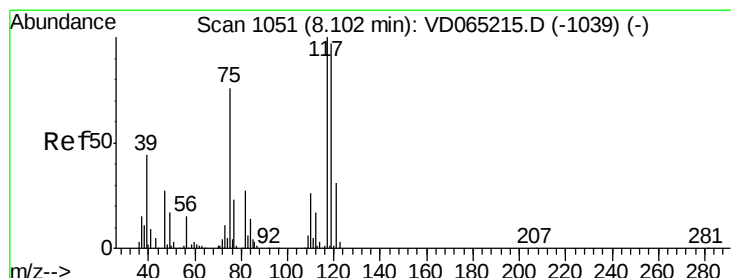
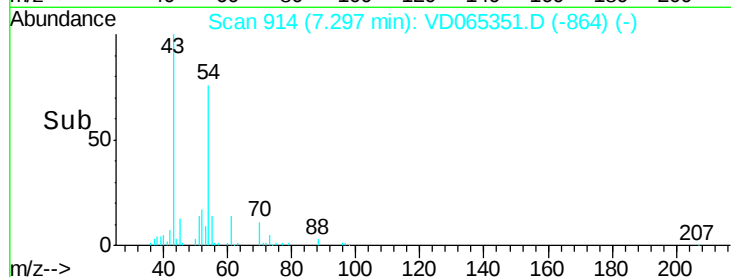
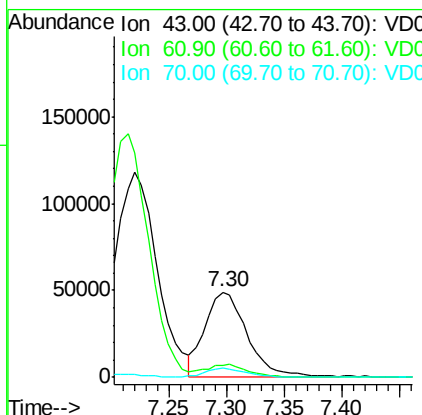
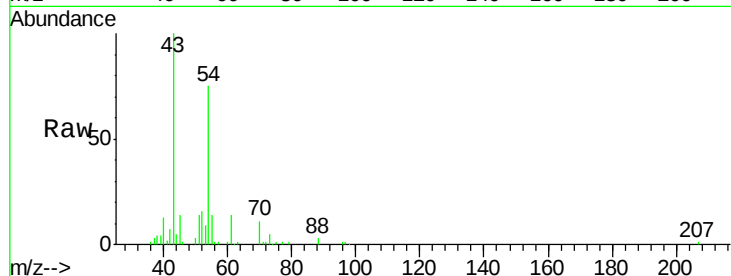
#37
Ethyl Acetate
Concen: 42.882 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.2	16.8
70	10.6	8.2	12.2

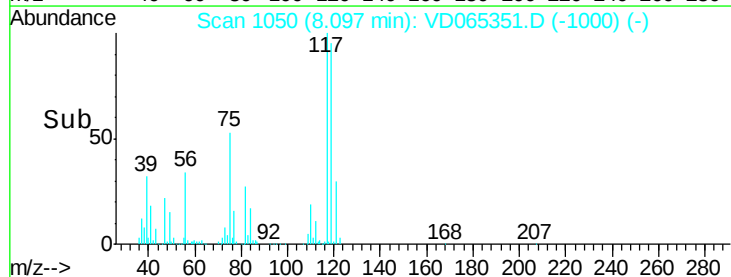
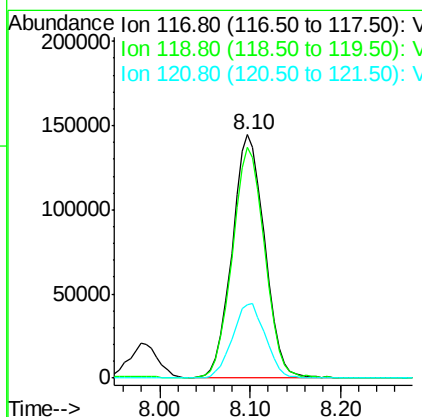
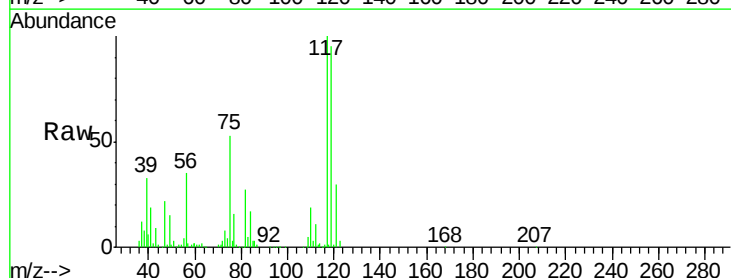
Manual Integrations
APPROVED

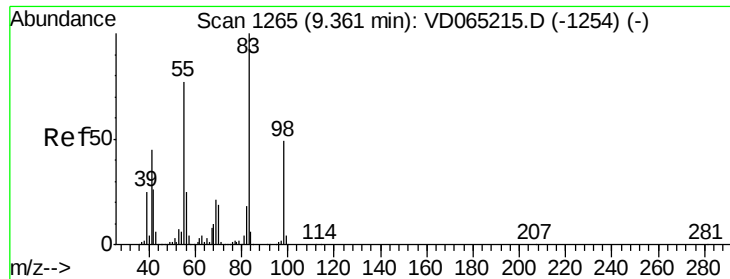
MMDadoda
3/2/2020 10:35:29 AM



#38
Carbon Tetrachloride
Concen: 51.259 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.9	77.6	116.4
121	30.3	24.8	37.2





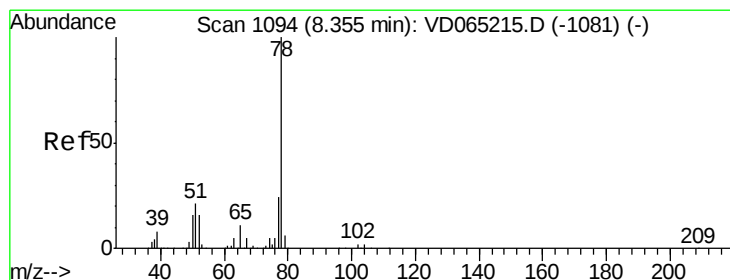
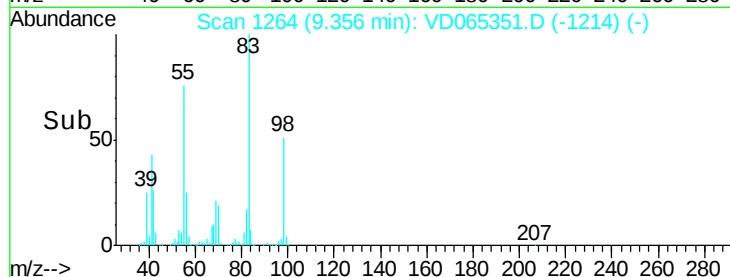
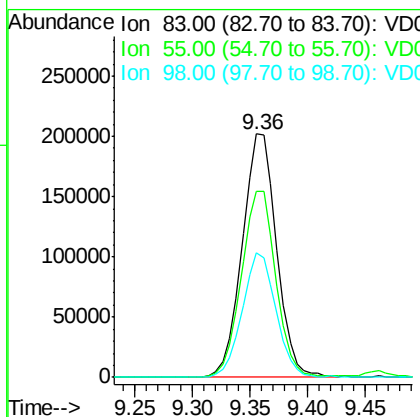
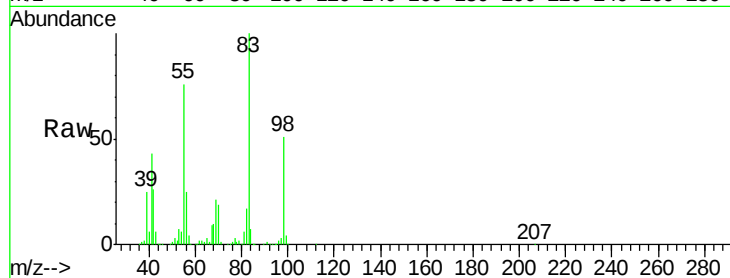
#39
Methvlcvclohexane
Concen: 51.918 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.3	61.8	92.6
98	51.4	39.4	59.0

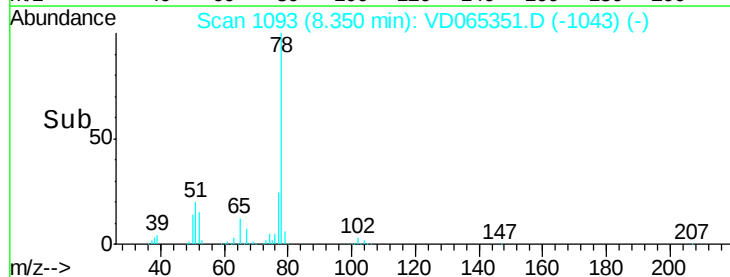
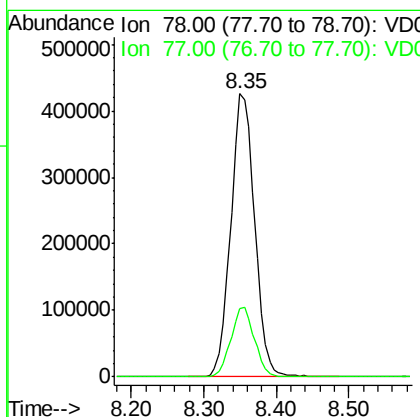
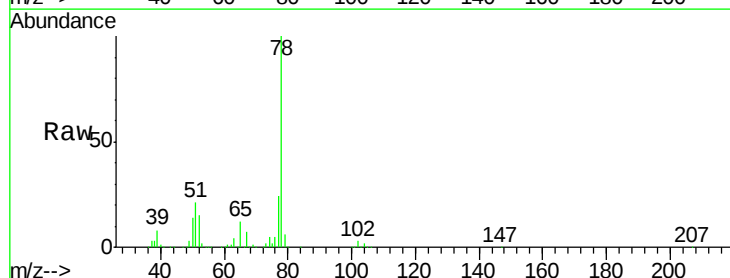
Manual Integrations
APPROVED

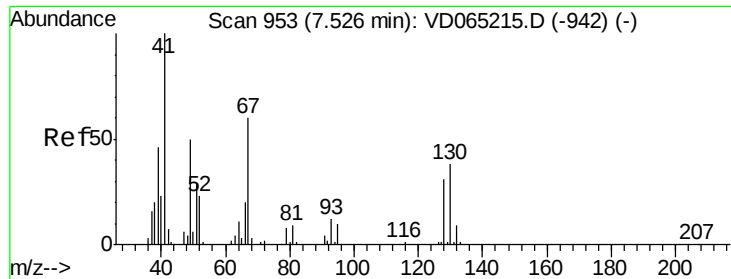
MMDadoda
3/2/2020 10:35:29 AM



#40
Benzene
Concen: 50.450 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.6





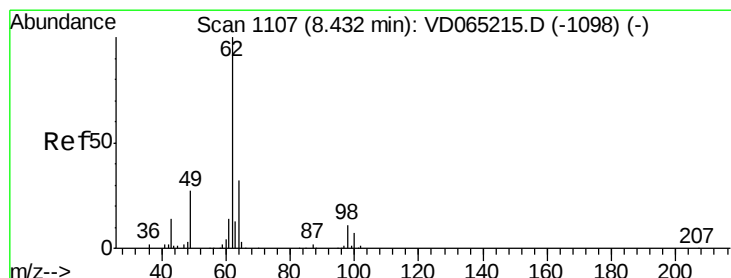
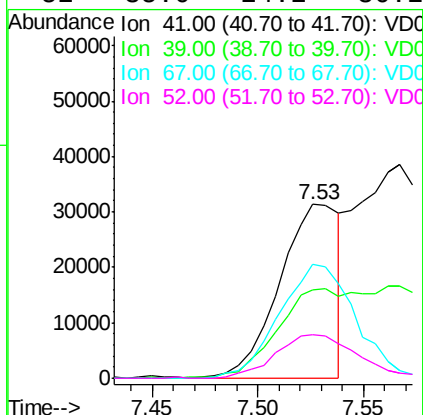
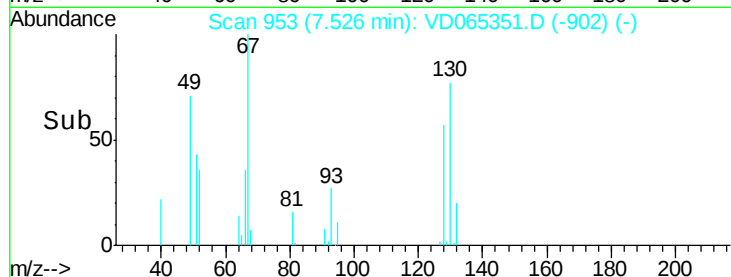
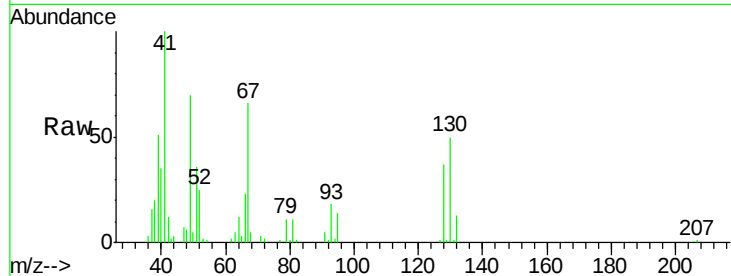
#41
Methacrylonitrile
Concen: 37.496 ug/l
RT: 7.53 min Scan# 953
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	70.7	48.1	72.1
67	83.8	58.9	88.3
52	35.0	24.2	36.2

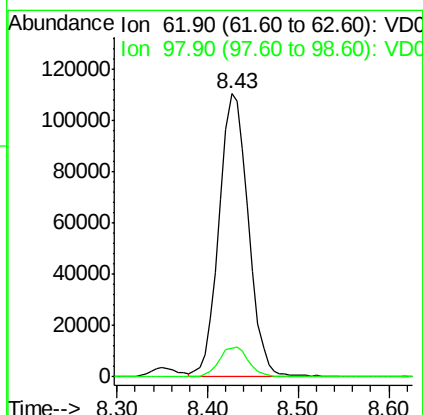
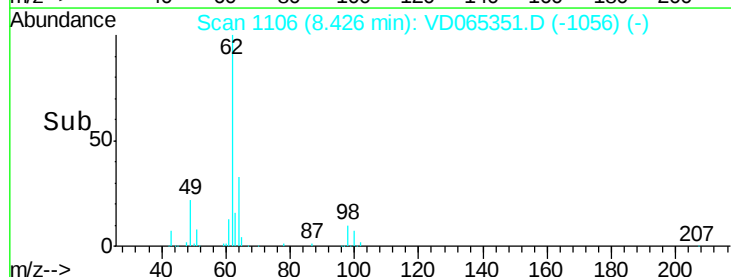
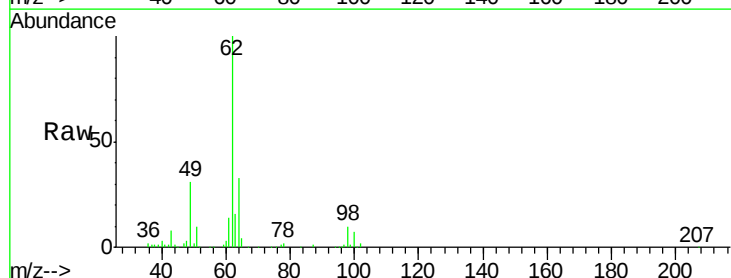
Manual Integrations
APPROVED

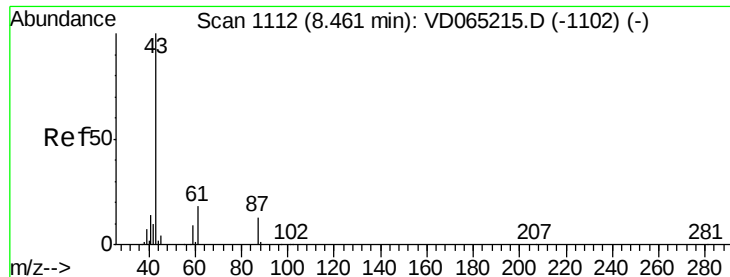
MMDadoda
3/2/2020 10:35:29 AM



#42
1,2-Dichloroethane
Concen: 46.514 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	20.6





#43

Isopropyl Acetate

Concen: 44.064 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

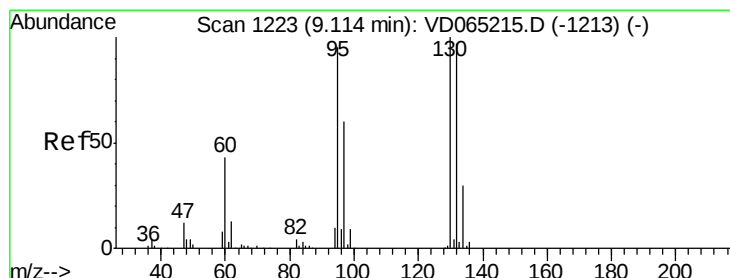
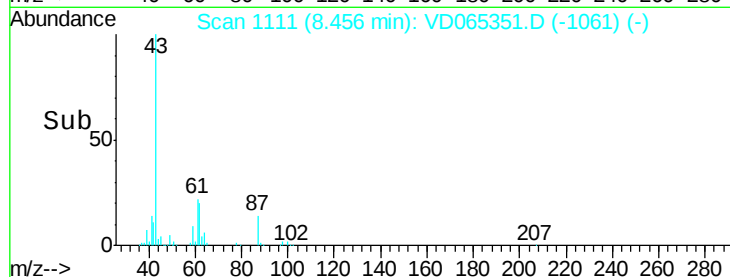
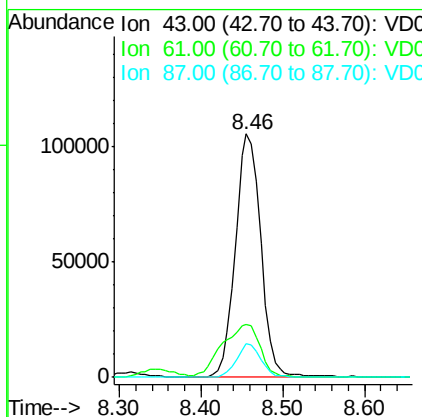
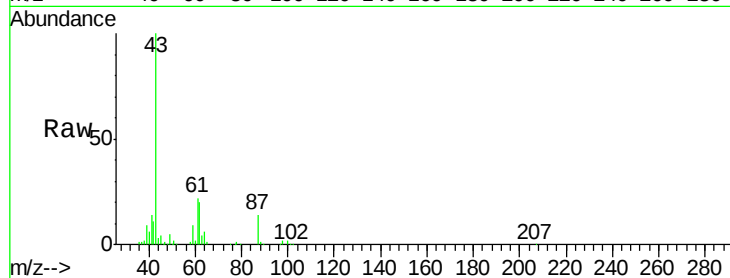
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	229487
Ion	Ratio	Lower	Upper
43	100		
61	32.1	24.6	36.8
87	13.3	10.6	16.0

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



#44

Trichloroethene

Concen: 50.066 ug/l

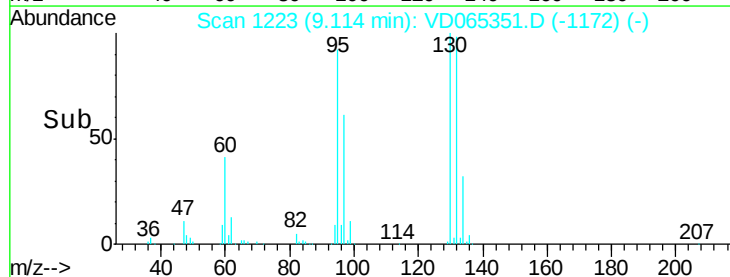
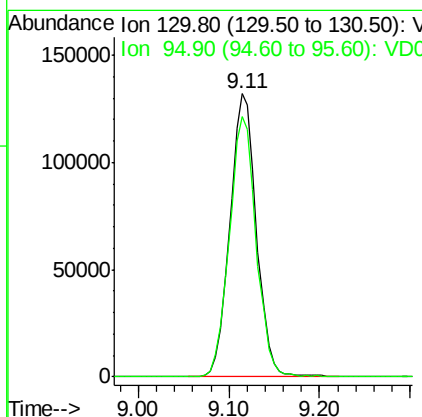
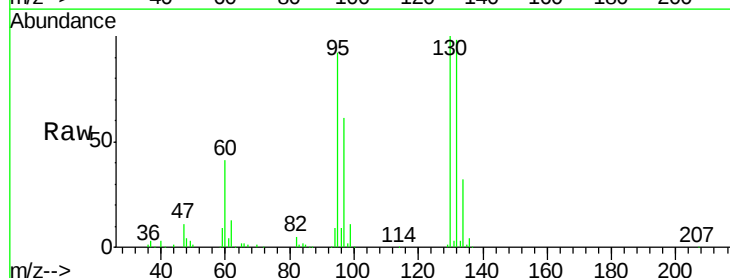
RT: 9.11 min Scan# 1223

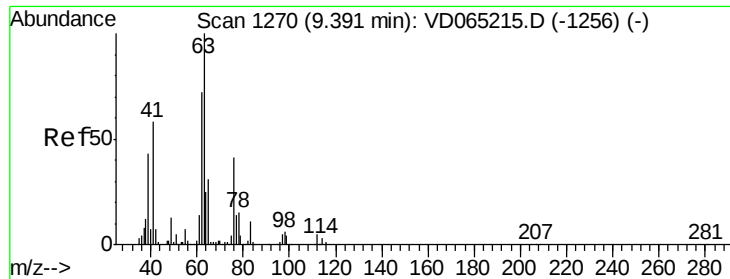
Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Tgt Ion:	130	Resp:	268364
Ion	Ratio	Lower	Upper
130	100		
95	91.8	0.0	190.6





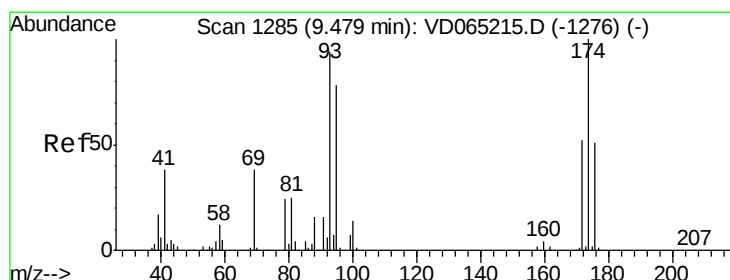
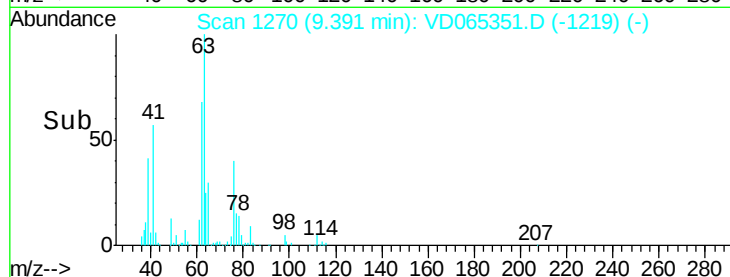
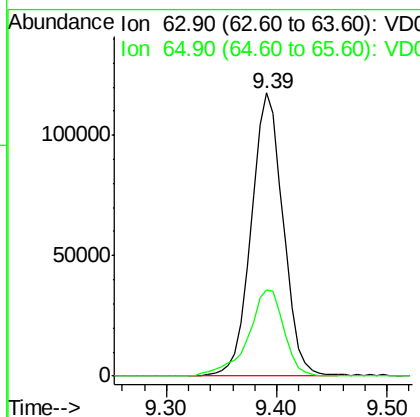
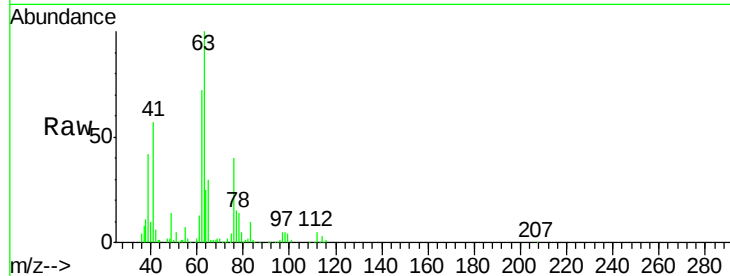
#45
 1,2-Dichloropropane
 Concen: 49.666 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.9	37.3

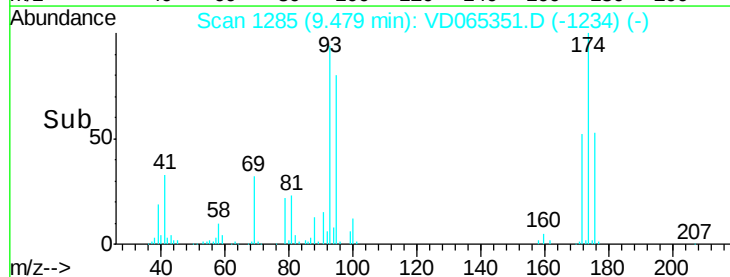
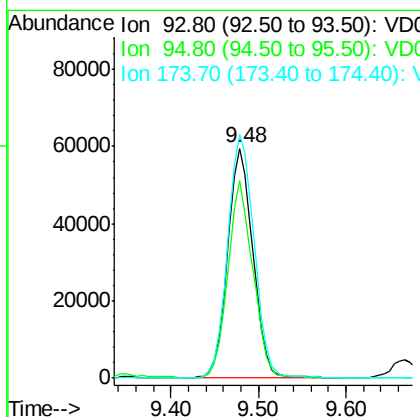
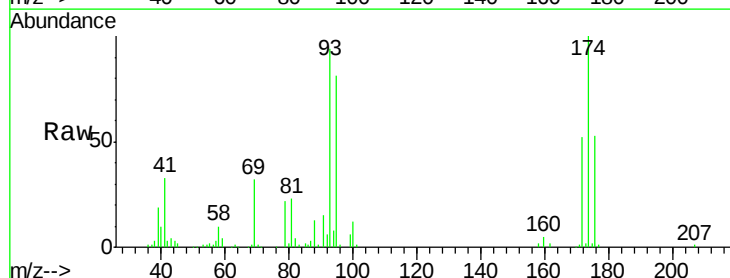
Manual Integrations
 APPROVED

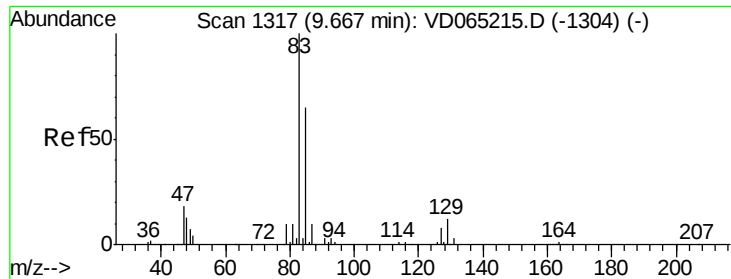
MMDadoda
 3/2/2020 10:35:29 AM



#46
 Dibromomethane
 Concen: 47.639 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.8	65.8	98.6
174	109.8	86.8	130.2





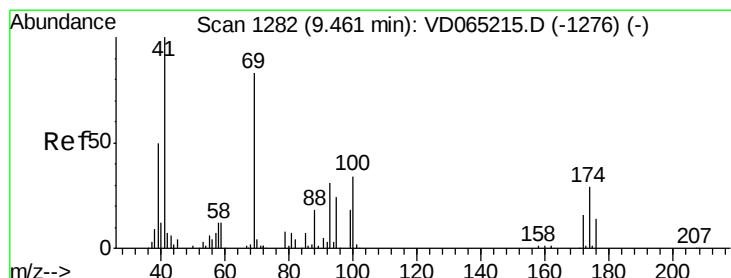
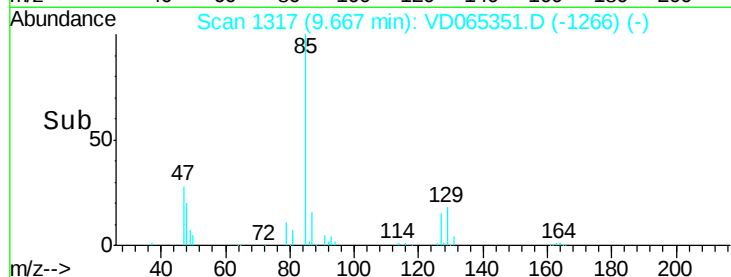
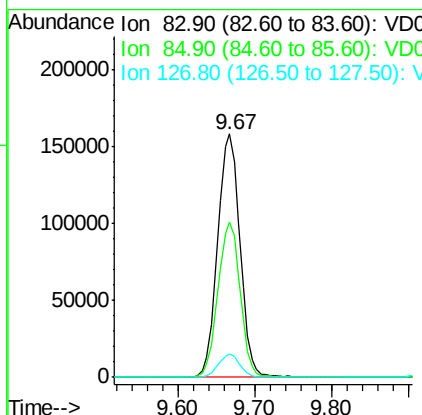
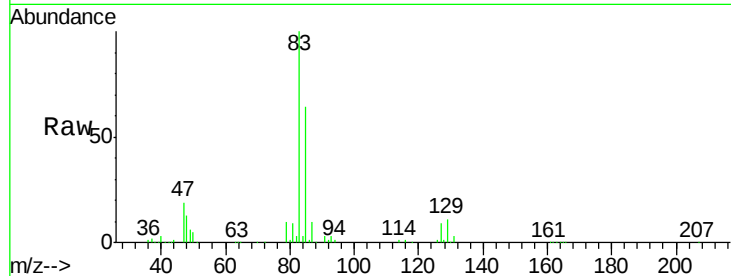
#47
Bromodichloromethane
Concen: 48.745 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	317811
Ion Ratio	100	Lower	Upper
83	100		
85	63.9	52.0	78.0
127	9.4	6.7	10.1

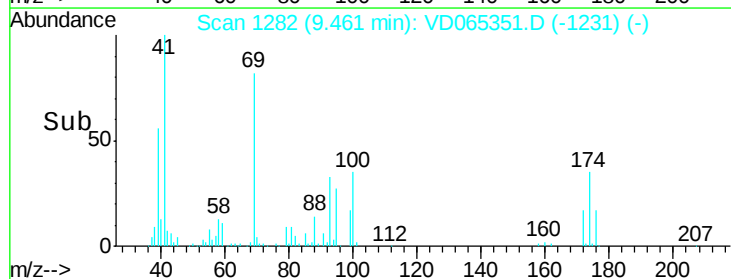
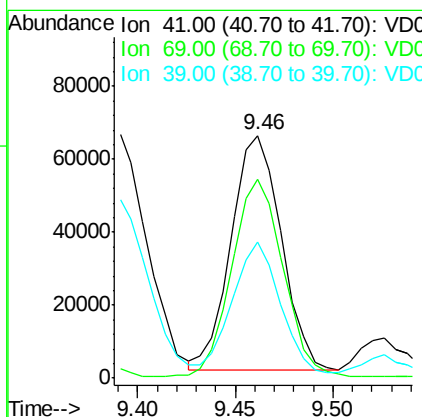
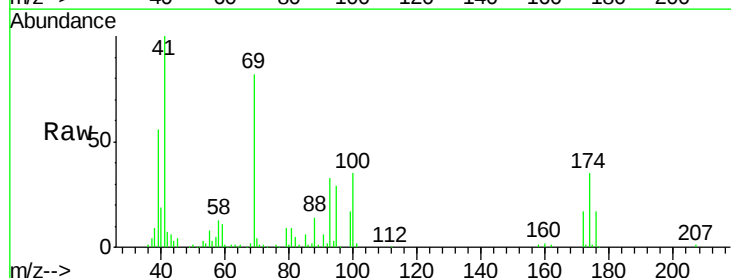
Manual Integrations
APPROVED

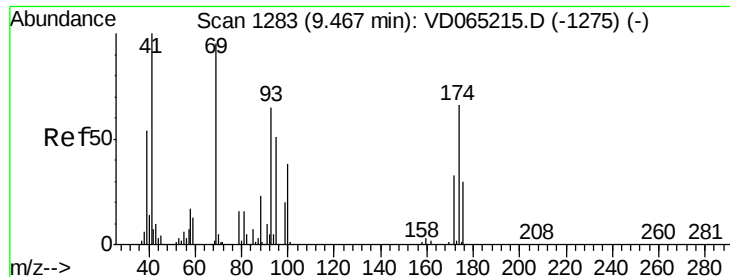
MMDadoda
3/2/2020 10:35:29 AM



#48
Methyl methacrylate
Concen: 47.677 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	41	Resp	114773
Ion Ratio	100	Lower	Upper
41	100		
69	88.4	68.2	102.2
39	51.7	42.0	63.0





#49

1,4-Dioxane

Concen: 881.400 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 88 Resp: 25575

Ion Ratio Lower Upper

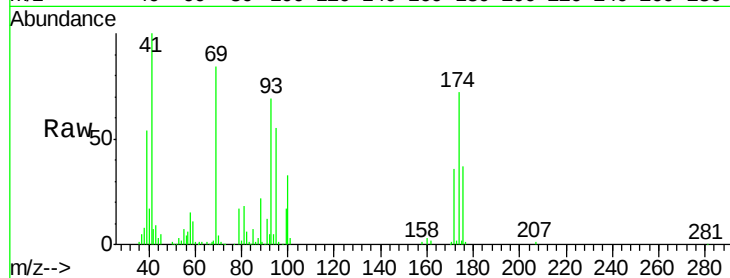
88 100

43 35.6 28.5 42.7

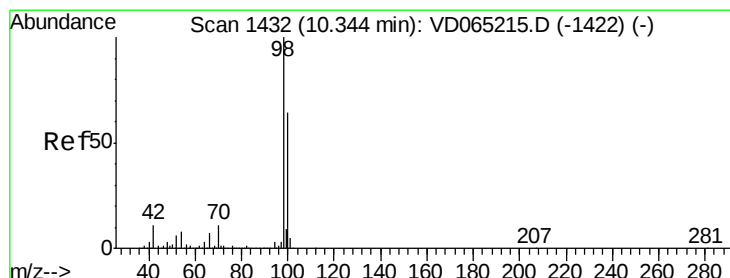
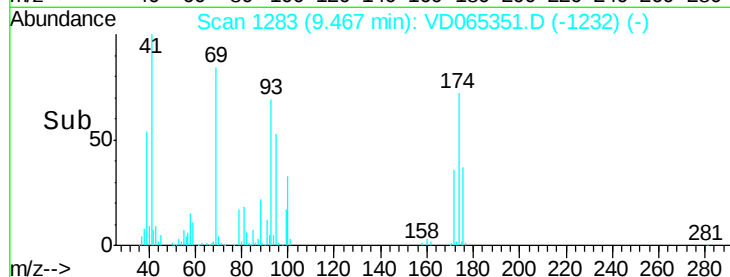
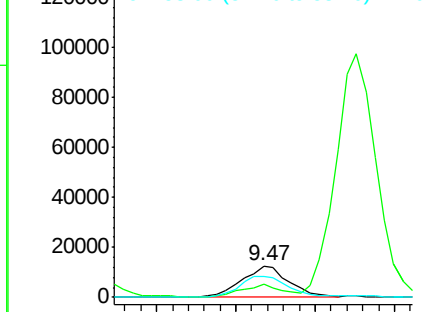
58 72.3 58.6 87.8

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 50.406 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065351.D

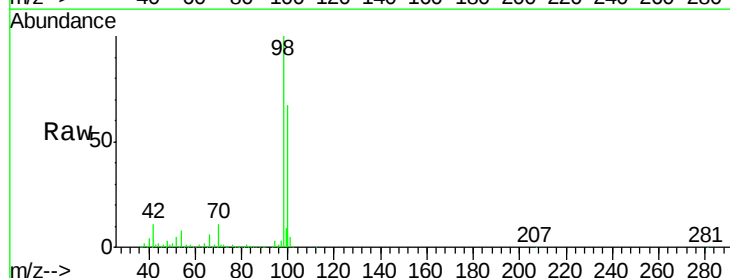
Acq: 28 Feb 2020 09:55

Tgt Ion: 98 Resp: 827282

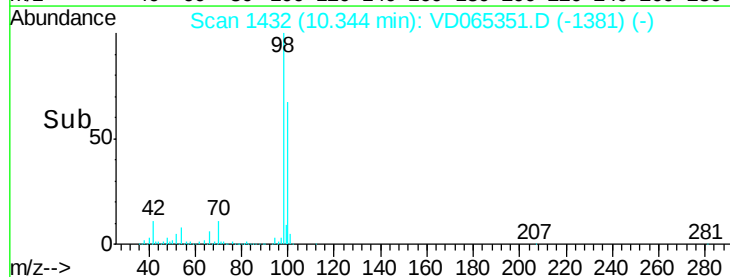
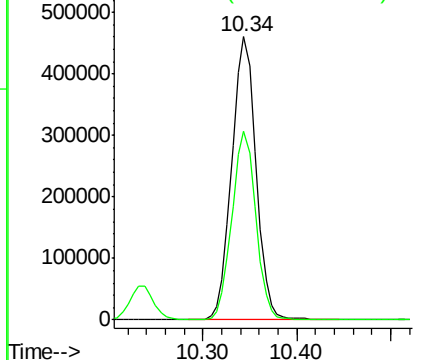
Ion Ratio Lower Upper

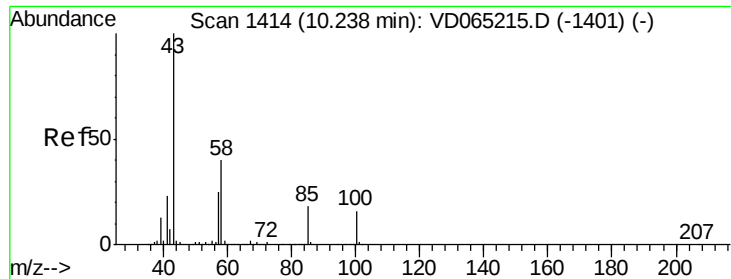
98 100

100 65.7 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





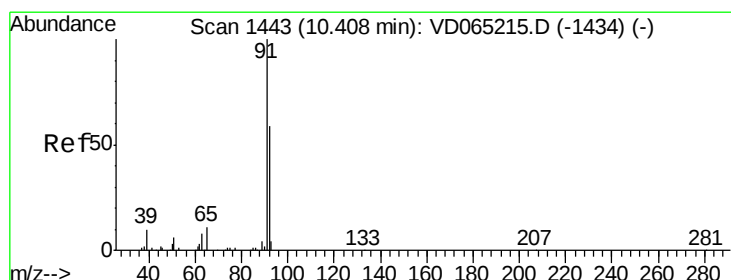
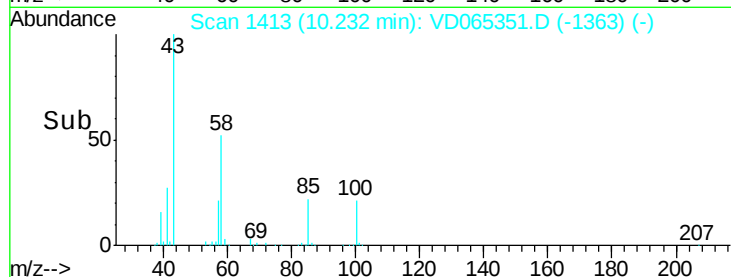
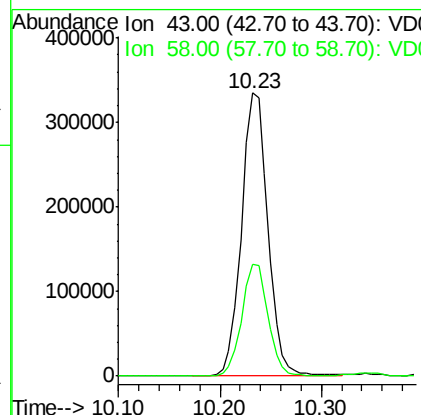
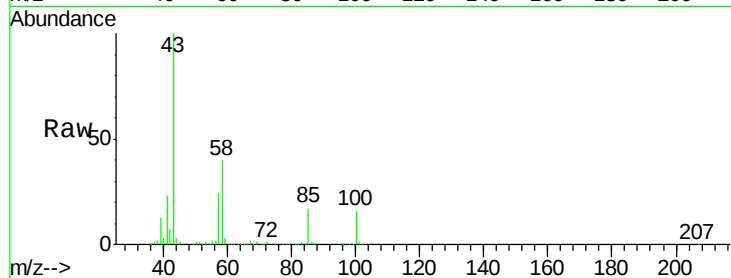
#51
4-Methyl-2-Pentanone
Concen: 229.111 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	43	Resp	606054
Ion Ratio	100	Lower	Upper
58	39.3	31.1	46.7

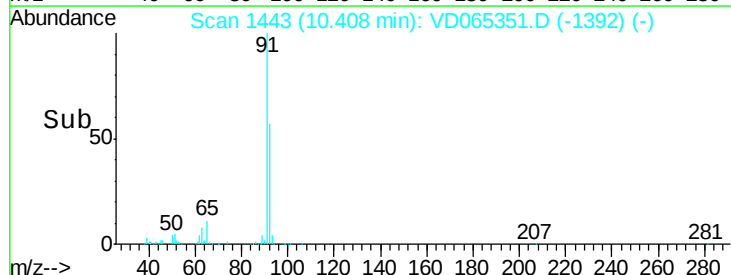
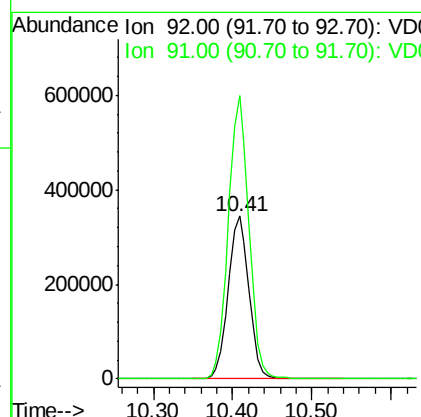
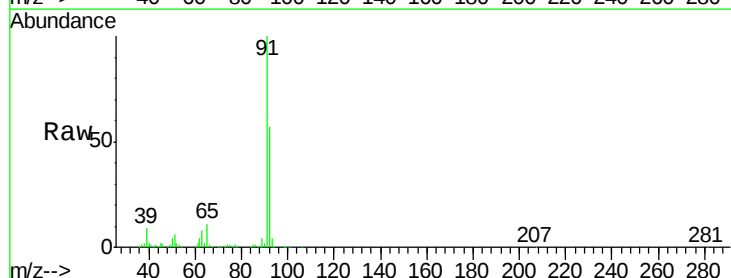
Manual Integrations
APPROVED

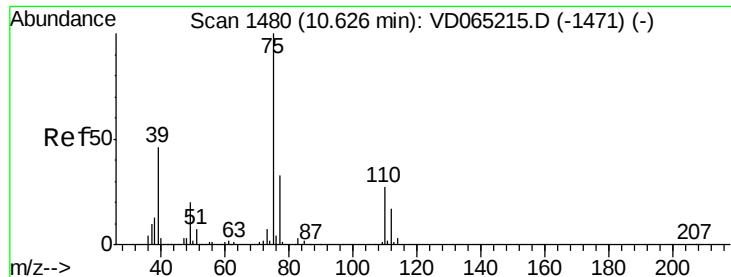
MMDadoda
3/2/2020 10:35:29 AM



#52
Toluene
Concen: 52.103 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	92	Resp	623641
Ion Ratio	100	Lower	Upper
91	172.6	136.3	204.5





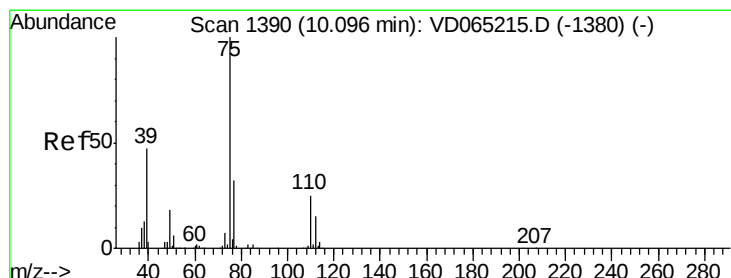
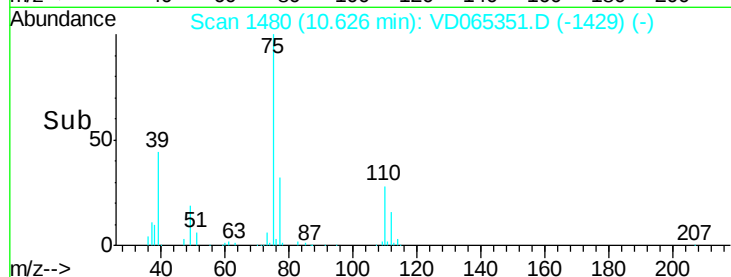
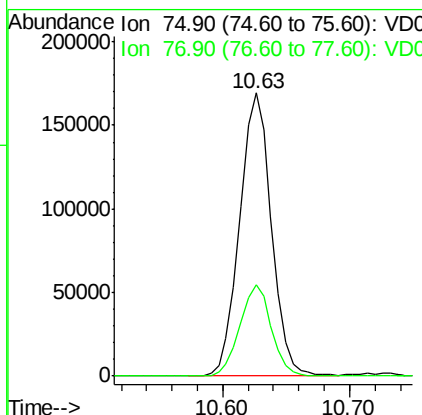
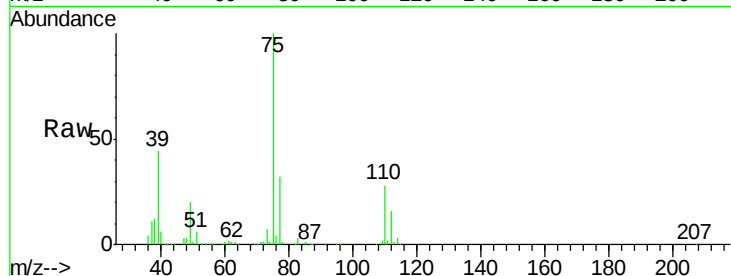
#53
t-1,3-Dichloropropene
Concen: 48.759 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.2	26.6	40.0

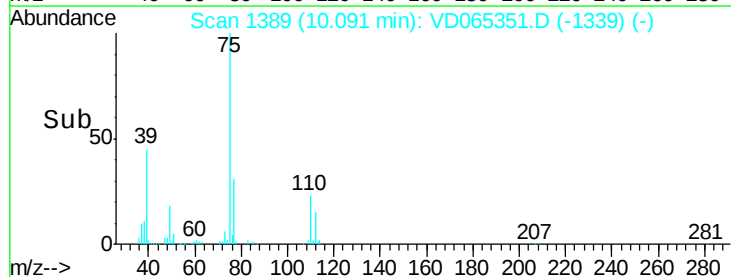
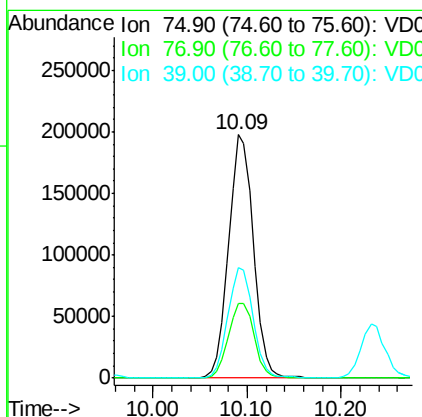
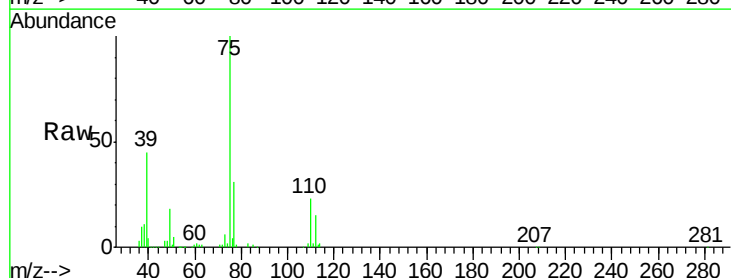
Manual Integrations
APPROVED

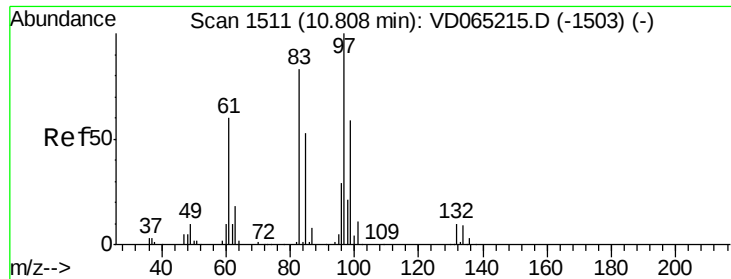
MMDadoda
3/2/2020 10:35:29 AM



#54
cis-1,3-Dichloropropene
Concen: 49.732 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.8	38.8
39	45.1	37.3	55.9





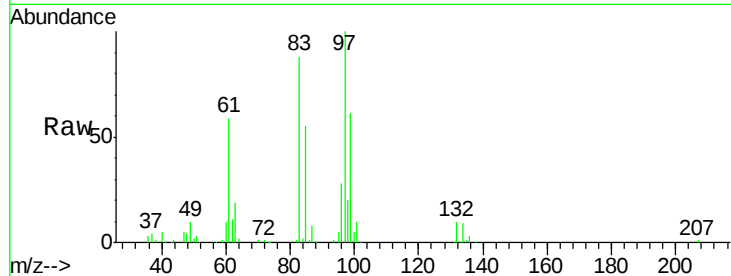
#55
 1,1,2-Trichloroethane
 Concen: 47.402 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.01 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
97	100	165062		
83	88.3	66.7	100.1	
85	55.0	42.4	63.6	
99	60.8	47.5	71.3	

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 10:35:29 AM

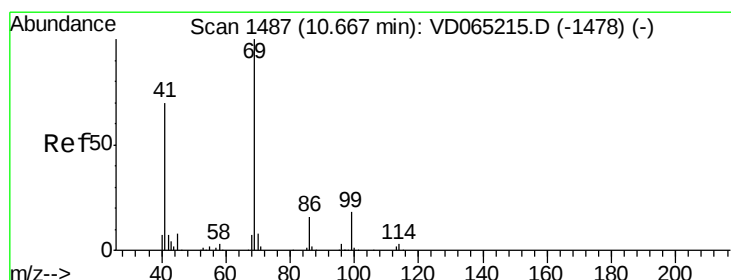
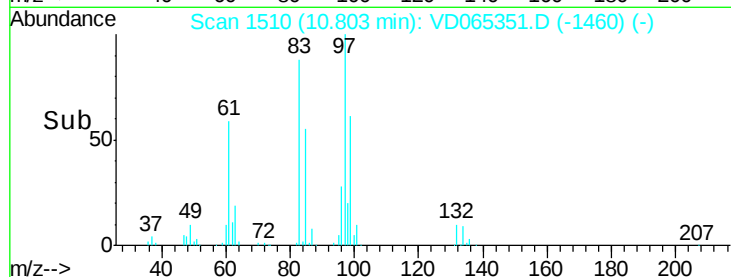
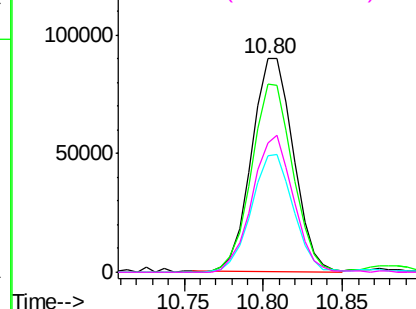


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

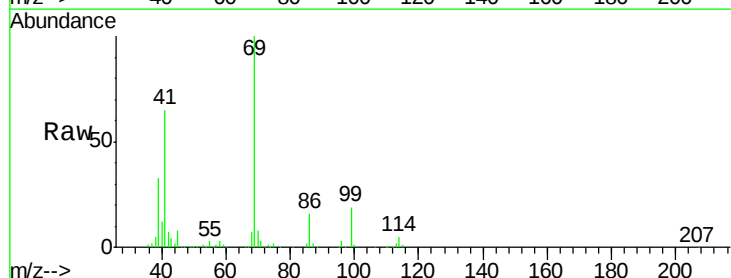
Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56
 Ethyl methacrylate
 Concen: 48.371 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

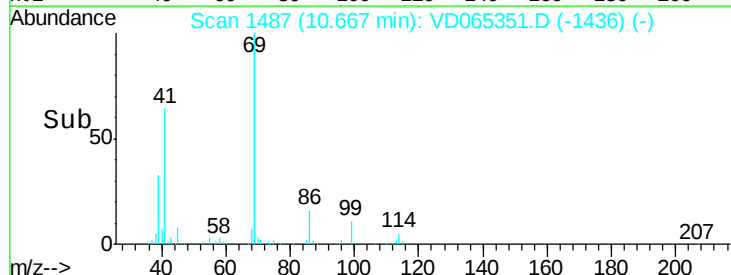
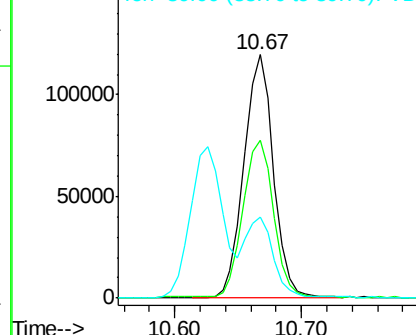
Tgt Ion	Ratio	Resp	Lower	Upper
69	100	194410		
41	66.5	54.6	81.8	
39	30.5	26.5	39.7	

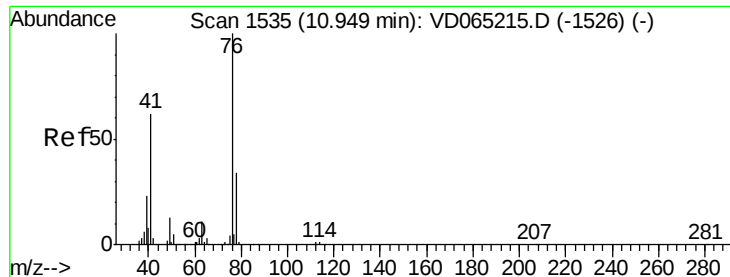


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#57

1,3-Dichloropropane

Concen: 48.532 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 287628

Ion Ratio Lower Upper

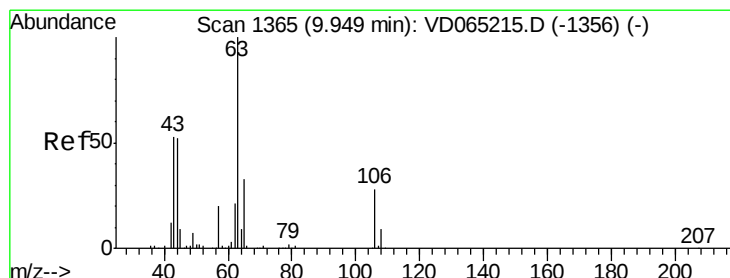
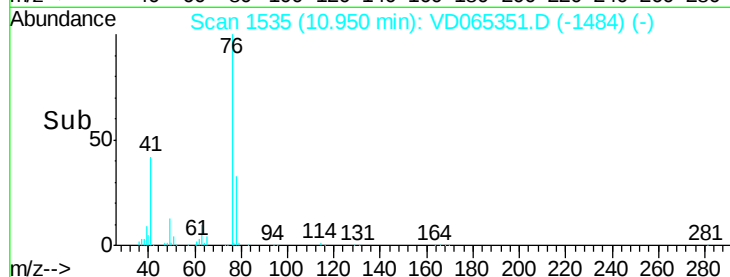
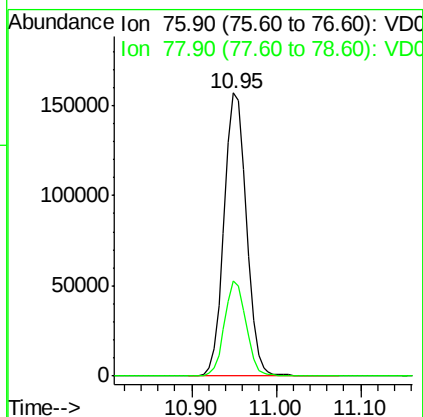
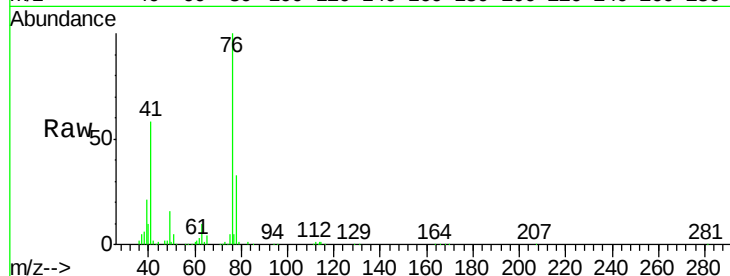
76 100

78 32.3 26.3 39.5

Manual Integrations
APPROVED

MMDadoda

3/2/2020 10:35:29 AM



#58

2-Chloroethyl Vinyl ether

Concen: 235.747 ug/l

RT: 9.95 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VD065351.D

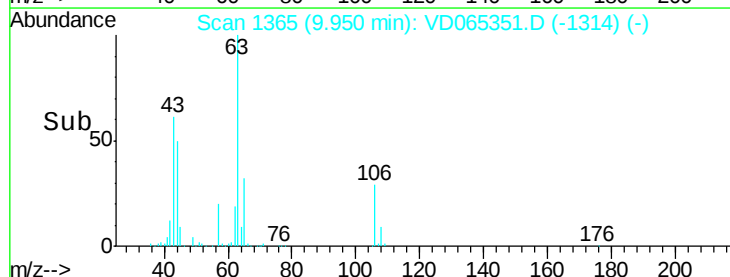
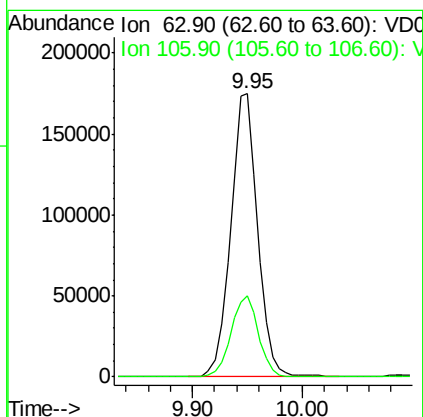
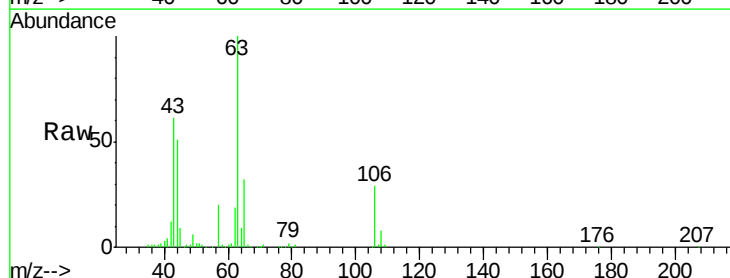
Acq: 28 Feb 2020 09:55

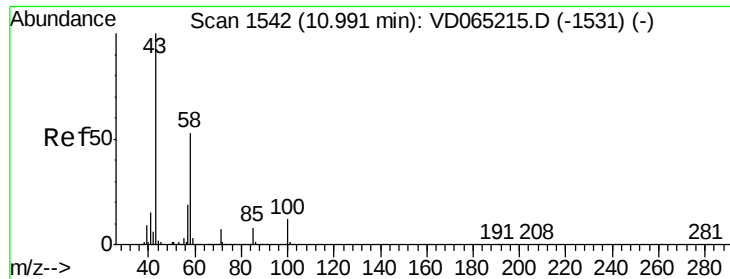
Tgt Ion: 63 Resp: 298724

Ion Ratio Lower Upper

63 100

106 29.2 22.8 34.2





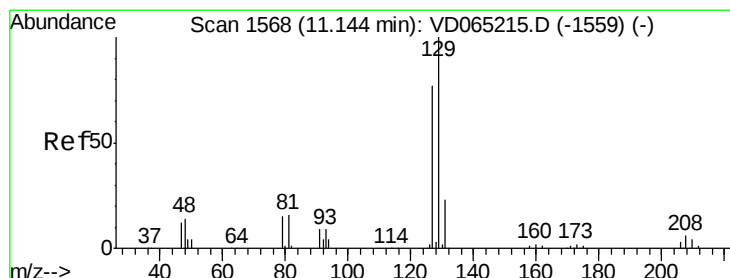
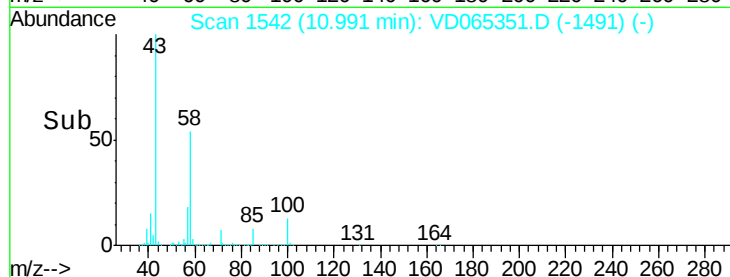
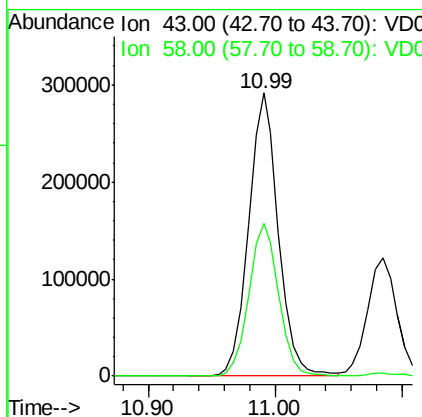
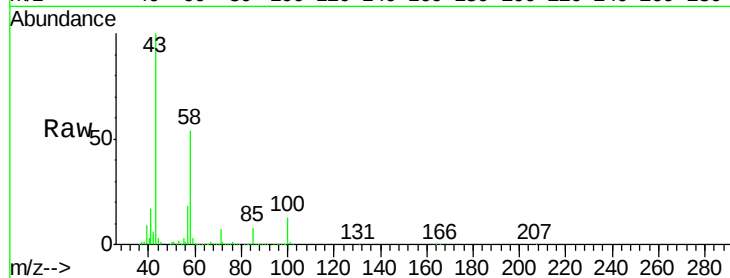
#59
2-Hexanone
Concen: 250.166 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 473707
Ion Ratio Lower Upper
43 100
58 54.1 26.3 78.8

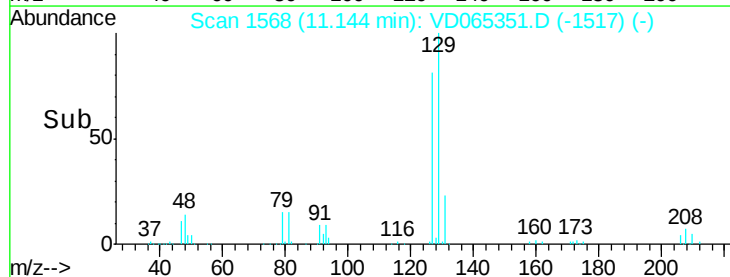
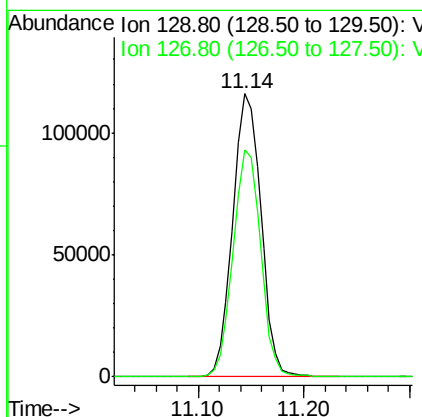
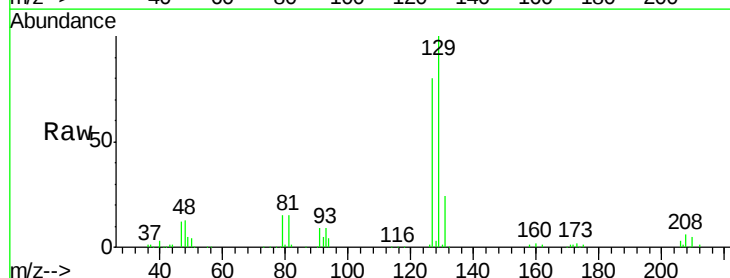
Manual Integrations
APPROVED

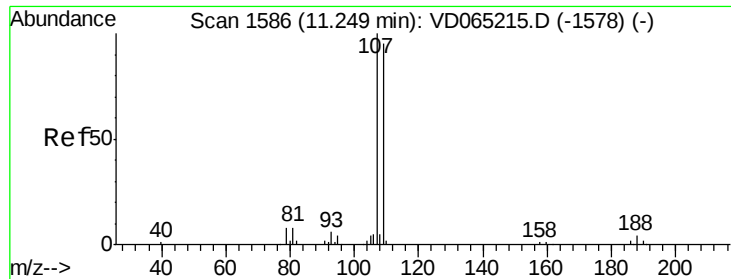
MMDadoda
3/2/2020 10:35:29 AM



#60
Dibromochloromethane
Concen: 48.200 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion:129 Resp: 214822
Ion Ratio Lower Upper
129 100
127 78.5 38.7 116.1





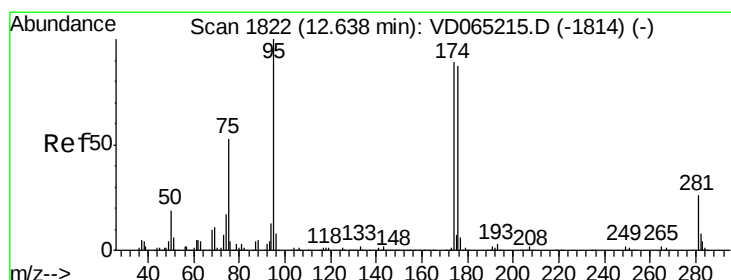
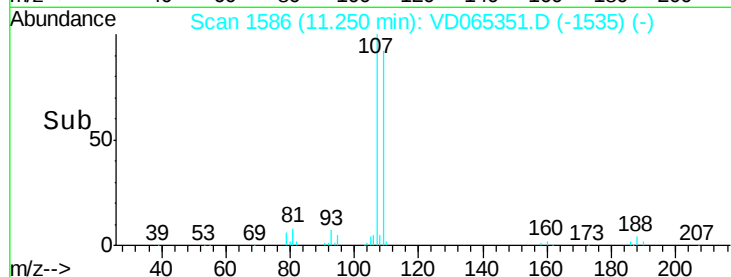
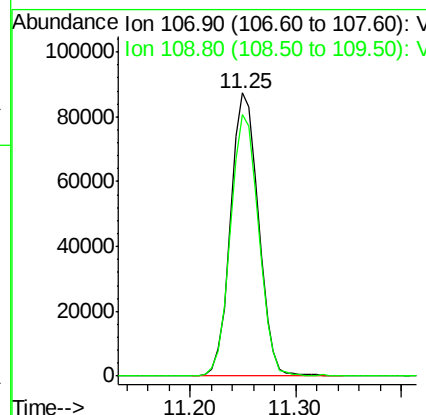
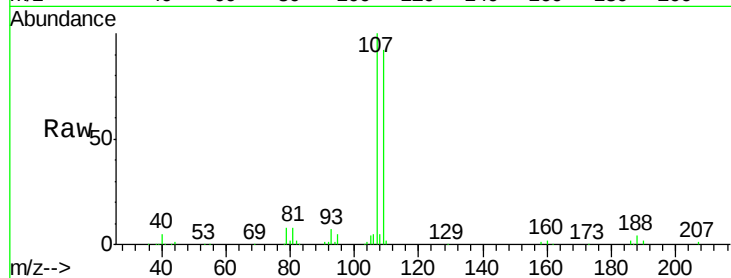
#61
 1,2-Dibromoethane
 Concen: 48.250 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 107 Resp: 159080
 Ion Ratio Lower Upper
 107 100
 109 93.6 76.2 114.4

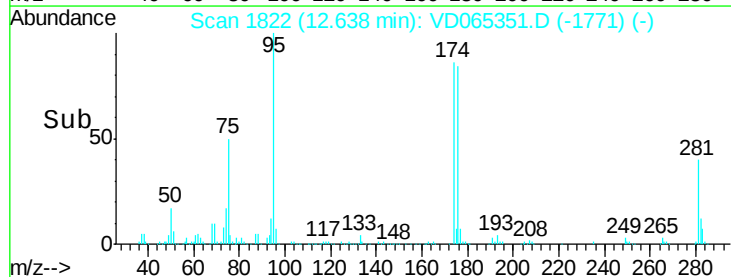
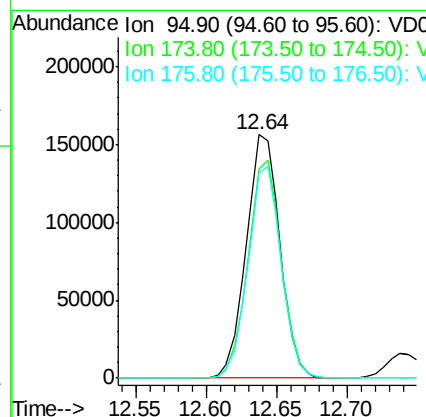
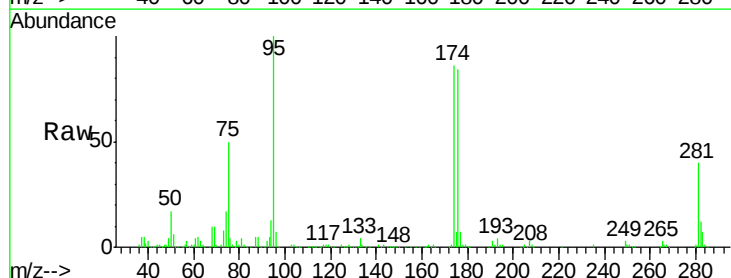
Manual Integrations
 APPROVED

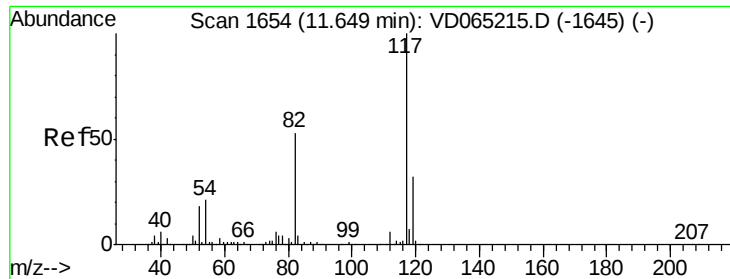
MMDadoda
 3/2/2020 10:35:29 AM



#62
 4-Bromofluorobenzene
 Concen: 50.477 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Tgt Ion: 95 Resp: 262446
 Ion Ratio Lower Upper
 95 100
 174 88.5 0.0 178.0
 176 85.5 0.0 174.4





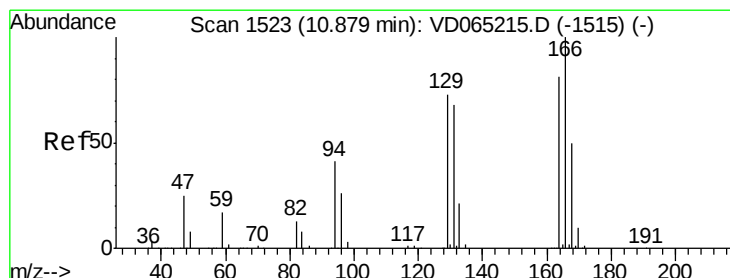
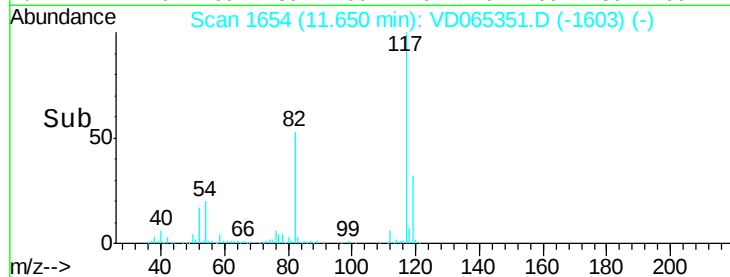
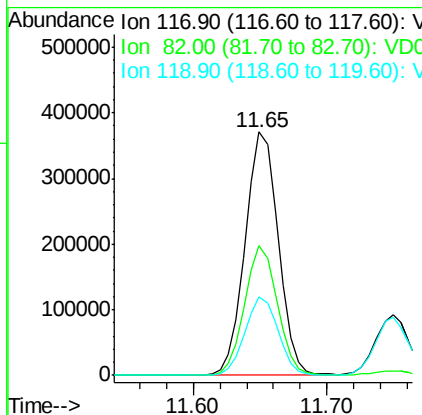
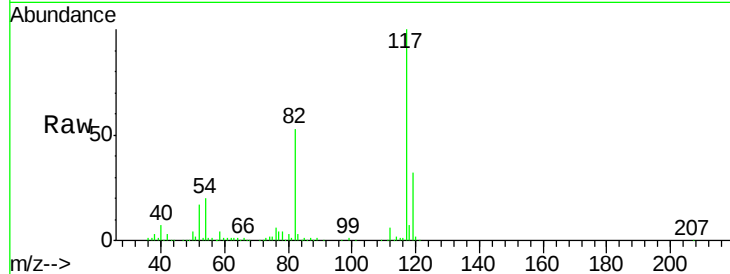
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.4	42.7	64.1
119	32.4	25.5	38.3

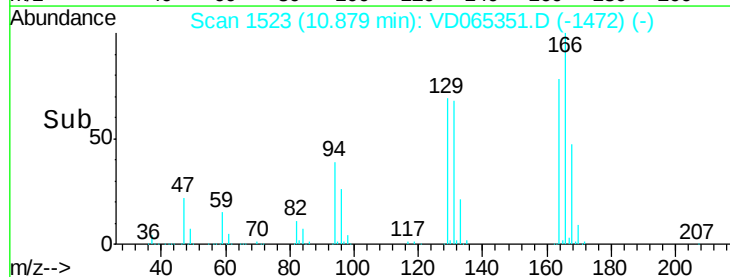
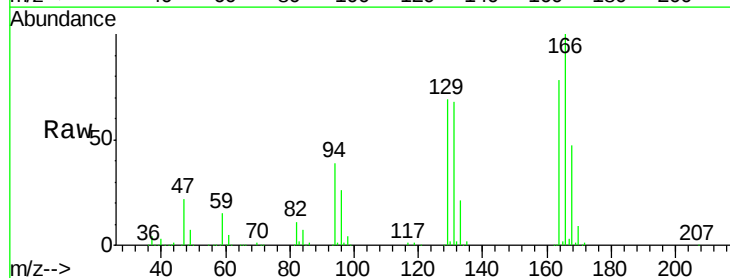
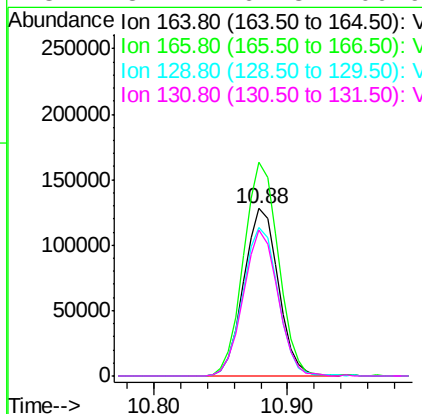
Manual Integrations
APPROVED

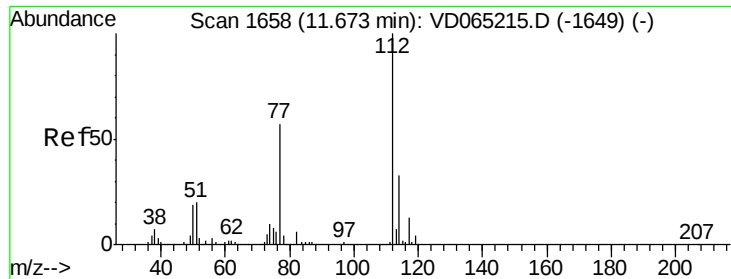
MMDadoda
3/2/2020 10:35:29 AM



#64
Tetrachloroethene
Concen: 50.727 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	98.4	147.6
129	88.5	71.6	107.4
131	87.1	67.3	100.9





#65

Chlorobenzene

Concen: 50.549 ug/l

RT: 11.68 min Scan# 1659

Delta R.T. 0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 644779

Ion Ratio Lower Upper

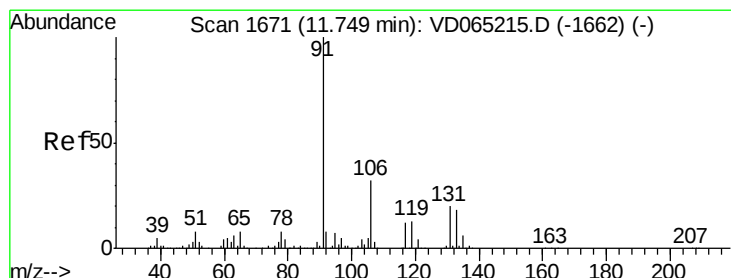
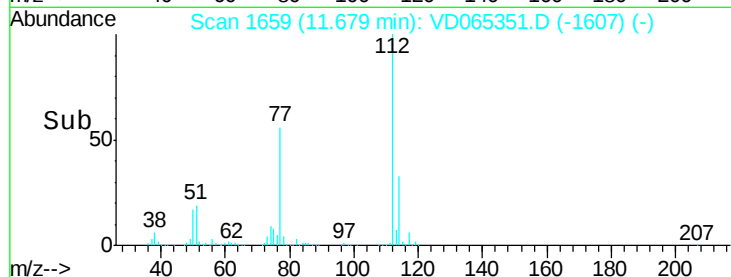
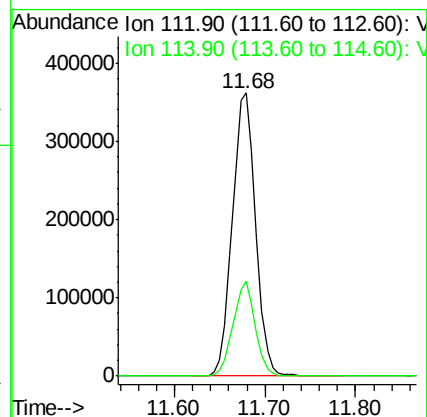
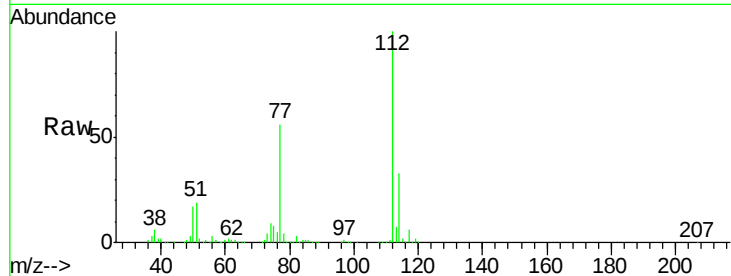
112 100

114 33.5 26.4 39.6

Manual Integrations
APPROVED

MMDadoda

3/2/2020 10:35:29 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 51.155 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

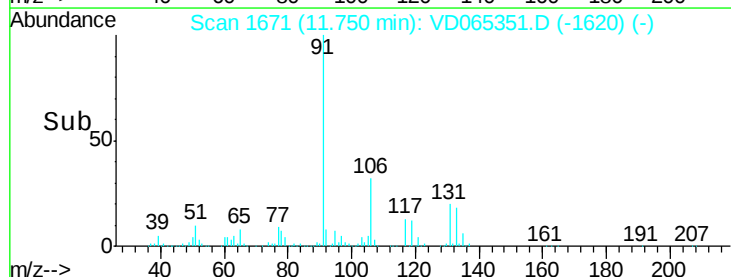
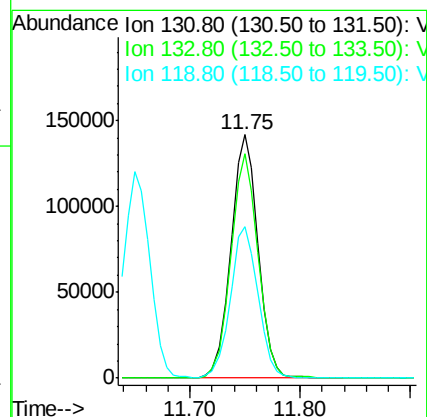
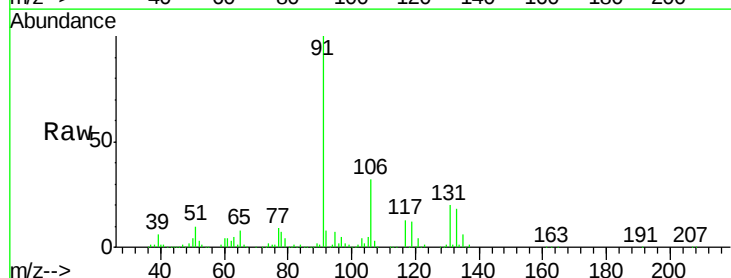
Tgt Ion:131 Resp: 243500

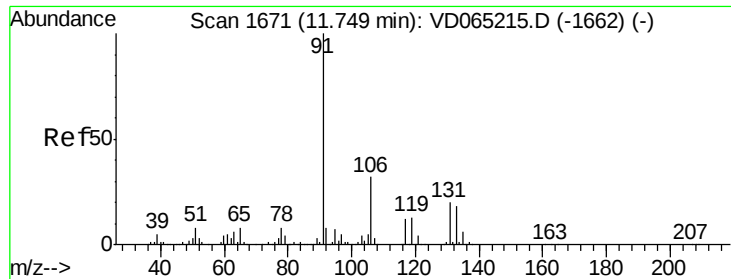
Ion Ratio Lower Upper

131 100

133 92.8 47.7 143.1

119 63.5 32.7 98.1





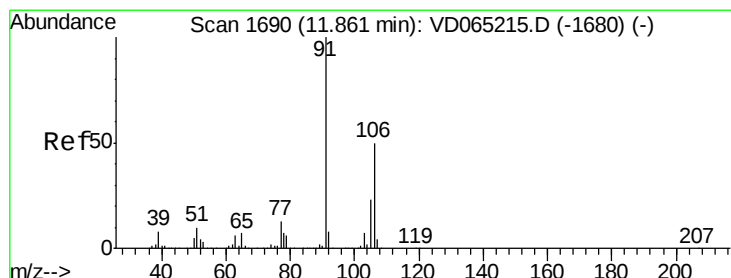
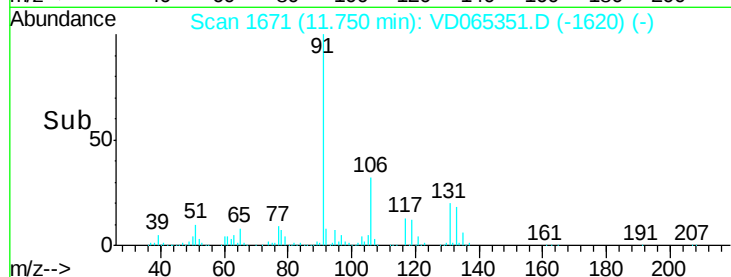
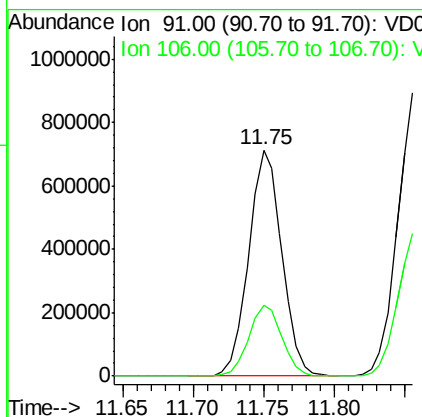
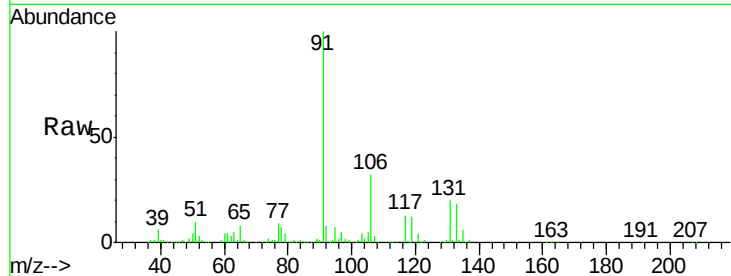
#67
Ethyl Benzene
Concen: 52.547 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1173883
Ion Ratio Lower Upper
91 100
106 31.6 25.2 37.8

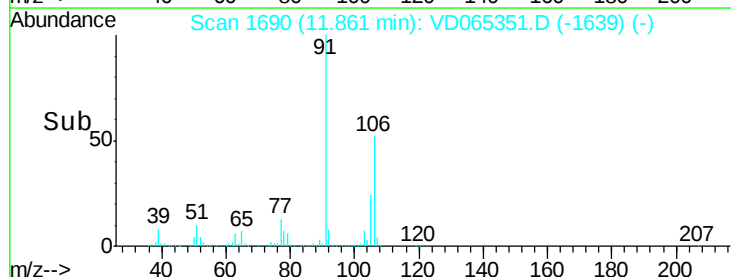
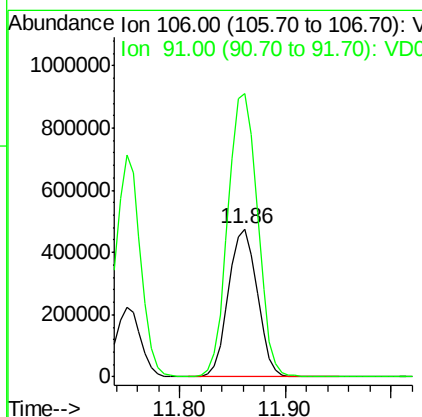
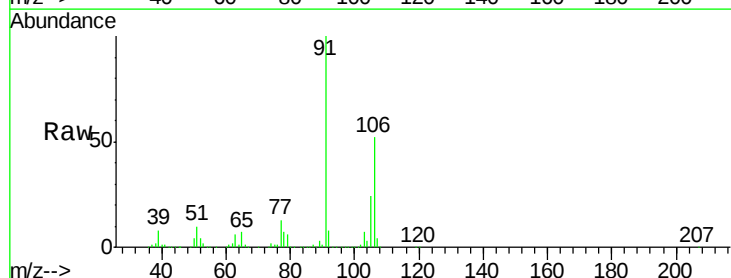
Manual Integrations
APPROVED

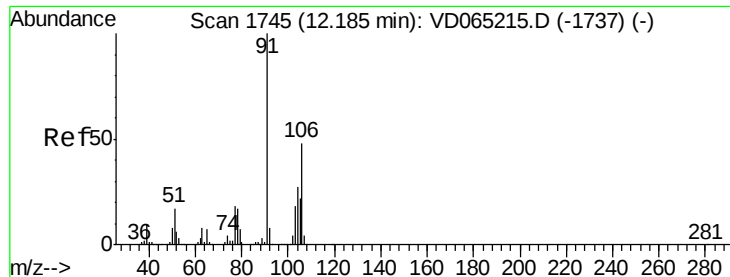
MMDadoda
3/2/2020 10:35:29 AM



#68
m/p-Xylenes
Concen: 105.464 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion: 106 Resp: 901405
Ion Ratio Lower Upper
106 100
91 196.7 158.2 237.4





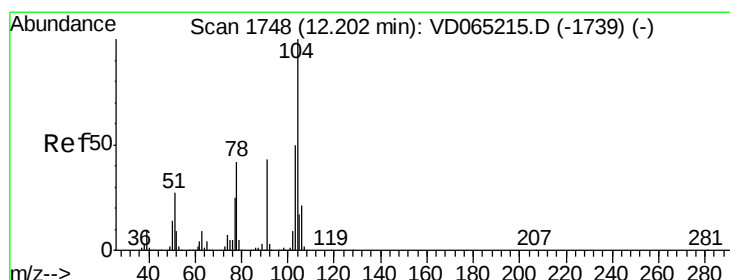
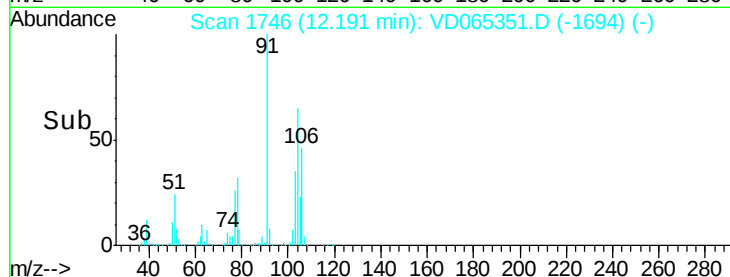
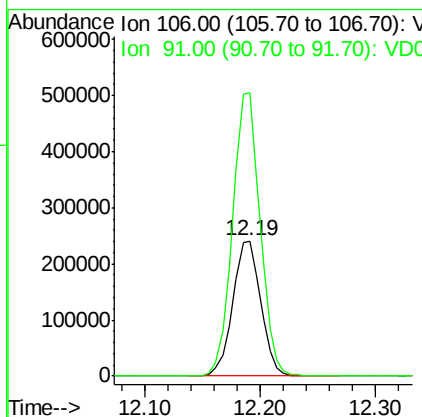
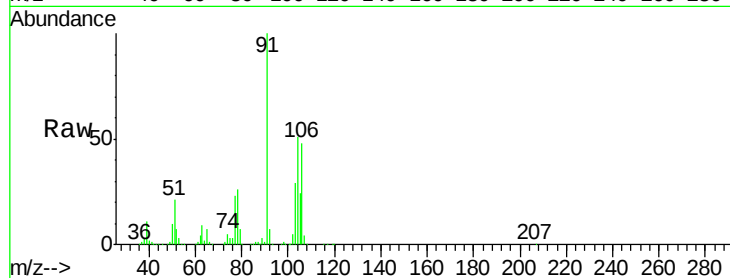
#69
o-Xylene
Concen: 53.272 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	403390		
91	91	206.9	104.7	313.9	

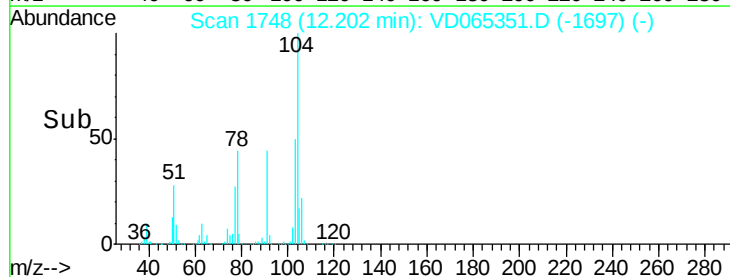
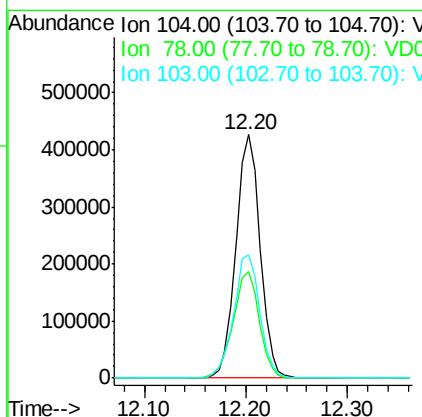
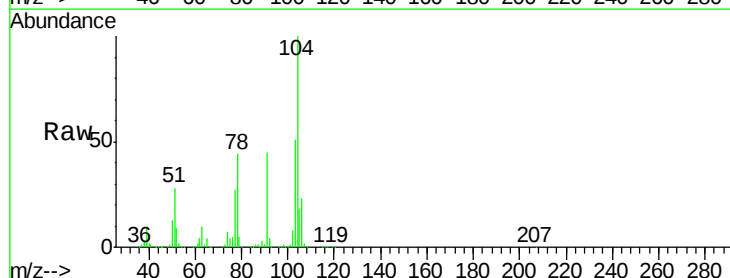
Manual Integrations
APPROVED

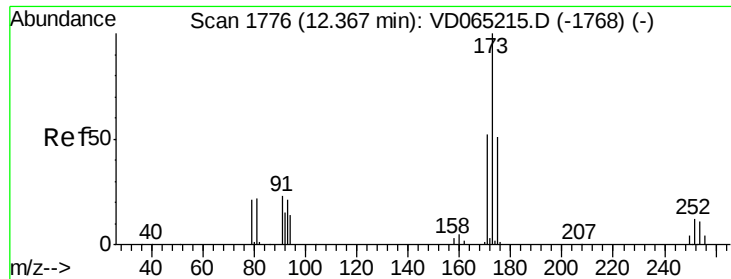
MMDadoda
3/2/2020 10:35:29 AM



#70
Styrene
Concen: 52.665 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	708039		
78	78	47.3	37.8	56.6	
103	103	54.8	43.4	65.2	





#71

Bromoform

Concen: 47.688 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 125960

Ion Ratio Lower Upper

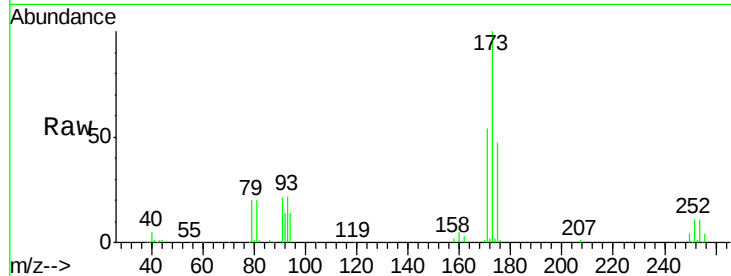
173 100

175 48.1 24.4 73.4

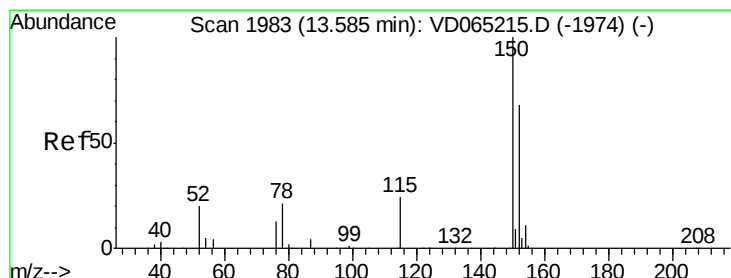
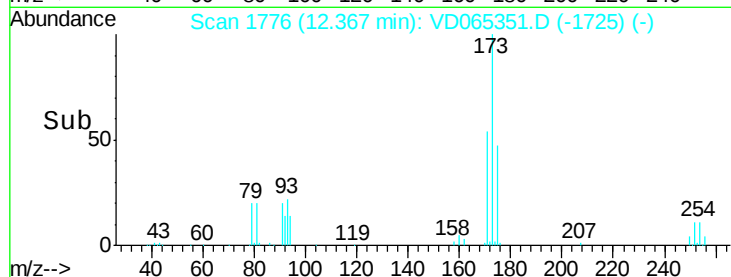
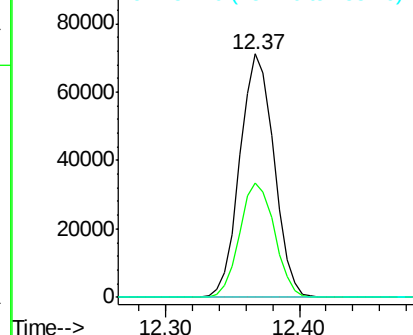
254 0.1 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

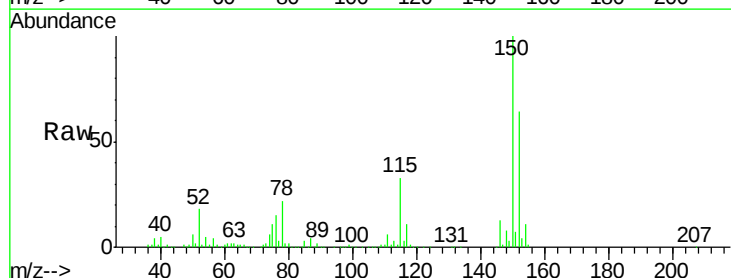
Tgt Ion:152 Resp: 314437

Ion Ratio Lower Upper

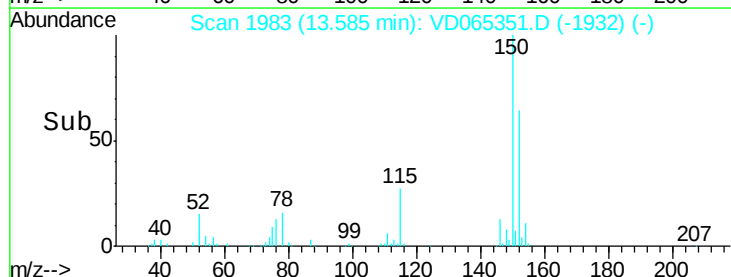
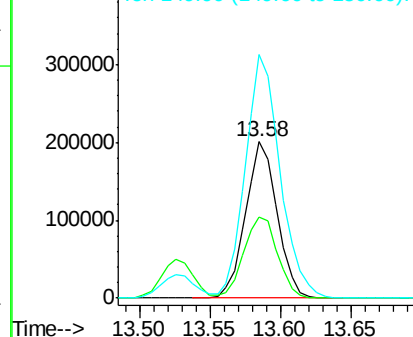
152 100

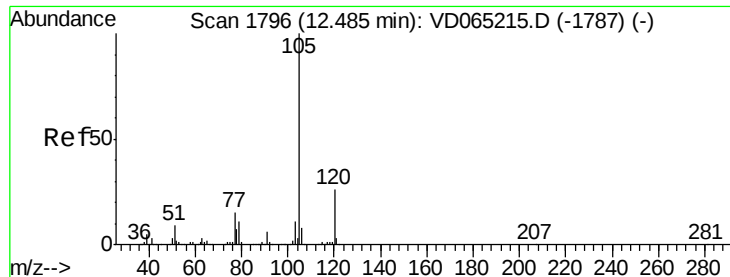
115 55.1 27.6 82.8

150 171.5 0.0 347.4



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: 53.871 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 1121451

Ion Ratio Lower Upper

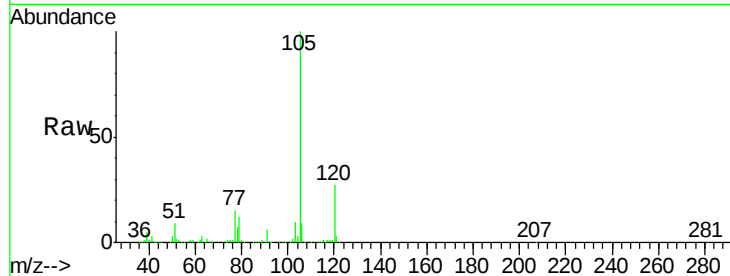
105 100

120 26.6 13.3 39.9

Manual Integrations
APPROVED

MMDadoda

3/2/2020 10:35:29 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

800000

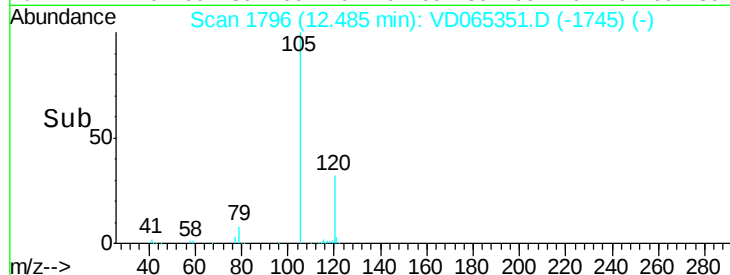
600000

400000

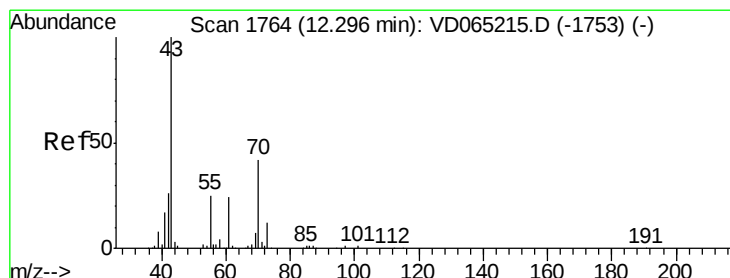
200000

0

12.40 12.50 12.60



Time-->



#74

N-ethyl acetate

Concen: 44.296 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Tgt Ion: 43 Resp: 204901

Ion Ratio Lower Upper

43 100

70 45.4 33.7 50.5

55 27.6 20.7 31.1

61 24.0 19.0 28.4

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

200000

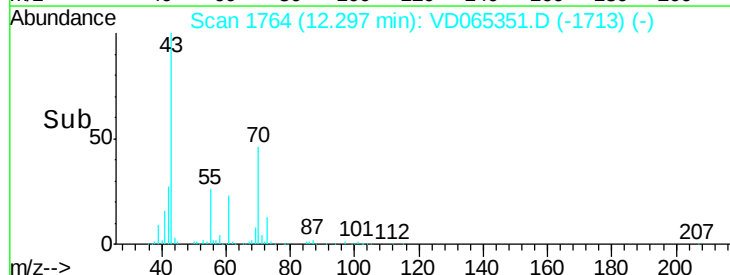
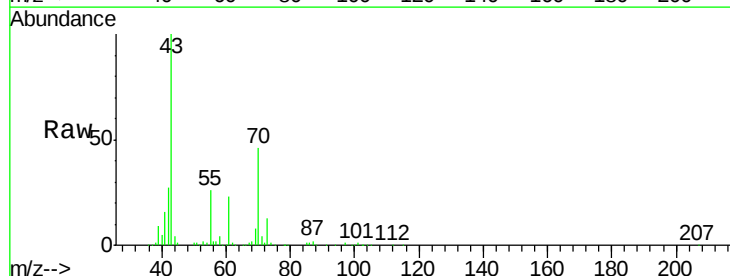
150000

100000

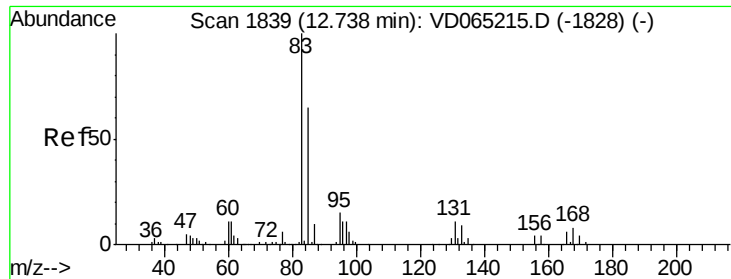
50000

0

12.20 12.25 12.30 12.35



Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: 45.556 ug/l

RT: 12.74 min Scan# 1840

Delta R.T. 0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

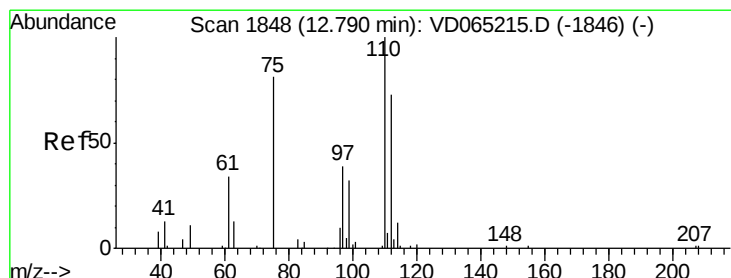
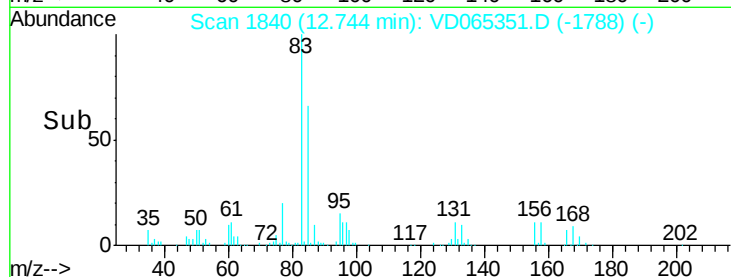
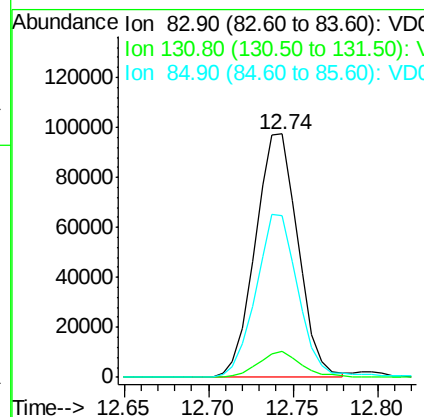
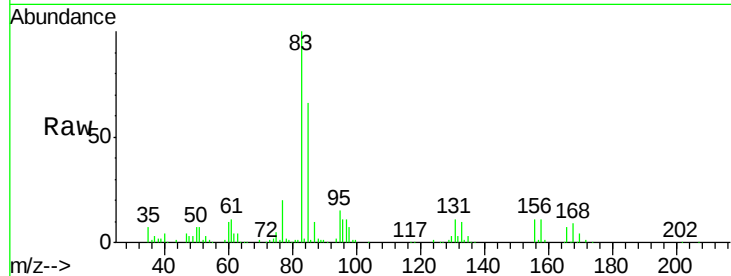
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	171155
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.4	16.2
85	65.7	31.6	94.8

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



#76

1,2,3-Trichloropropane

Concen: 46.024 ug/l m

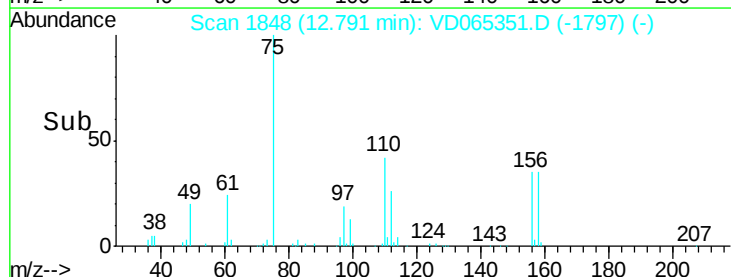
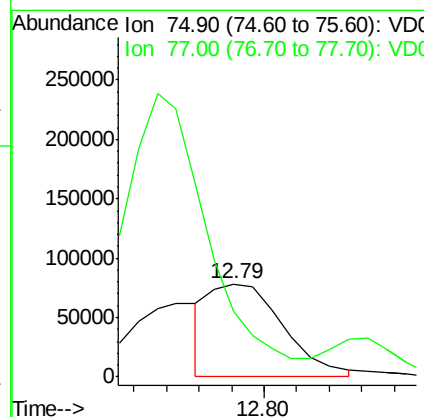
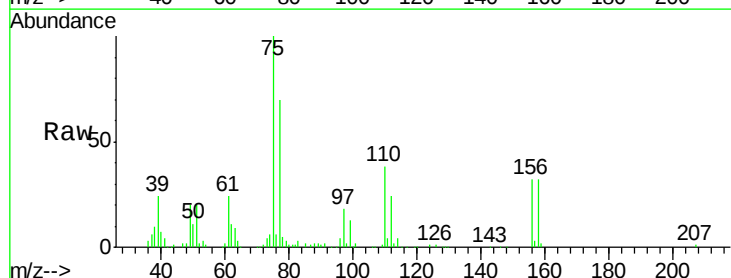
RT: 12.79 min Scan# 1848

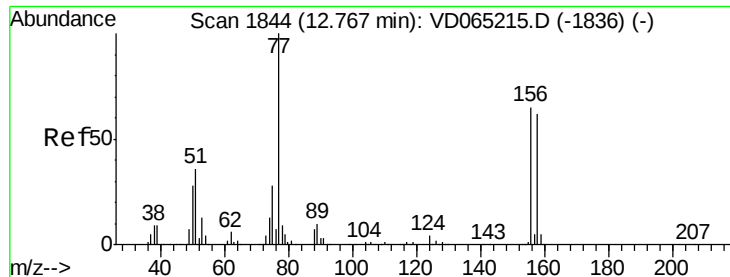
Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Tgt Ion:	75	Resp:	123130
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





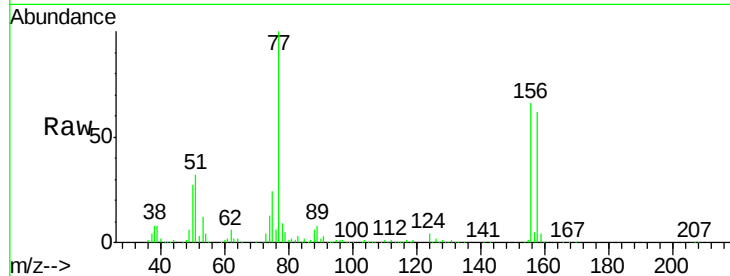
#77
Bromobenzene
Concen: 50.645 ug/l
RT: 12.77 min Scan# 1844
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

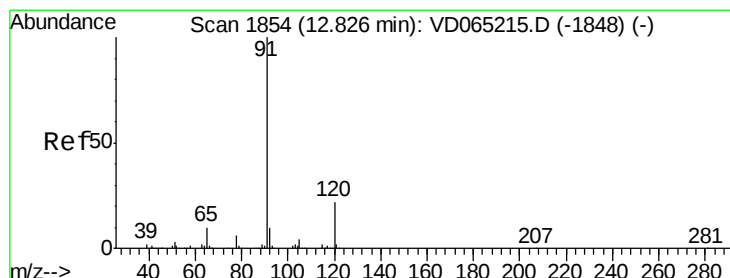
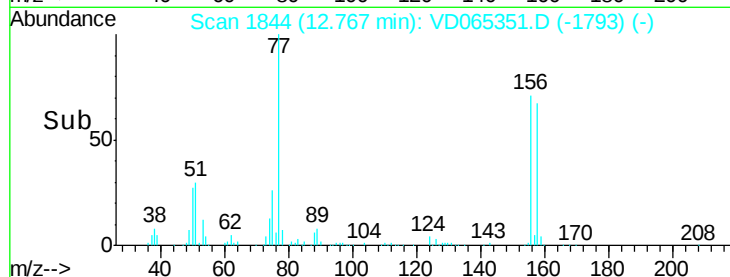
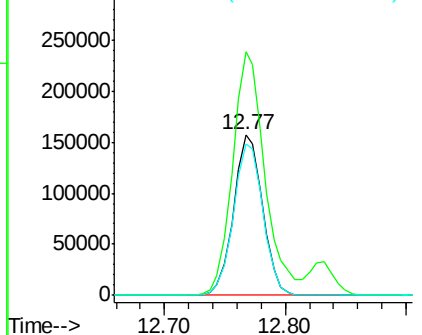
Tot Ion	Ratio	Lower	Upper
156	100		
77	168.2	86.6	259.7
158	96.8	48.1	144.3

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM

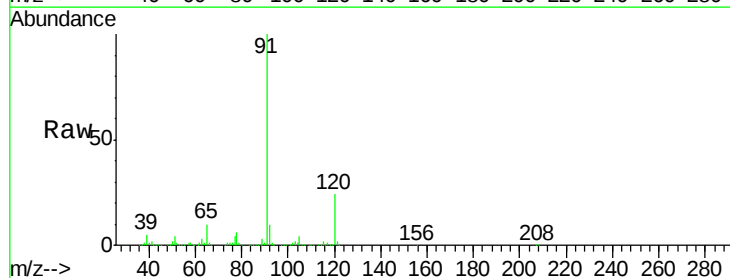


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VDC
Ion 157.80 (157.50 to 158.50): V

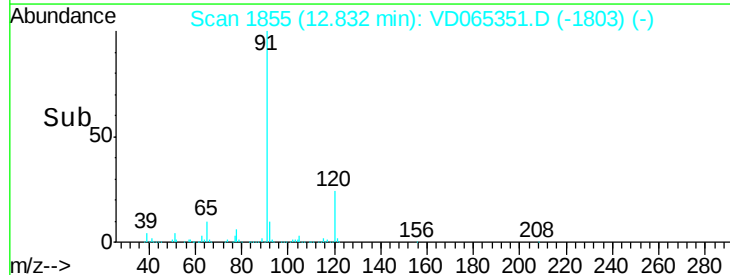
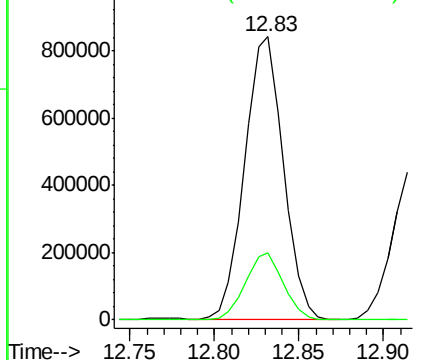


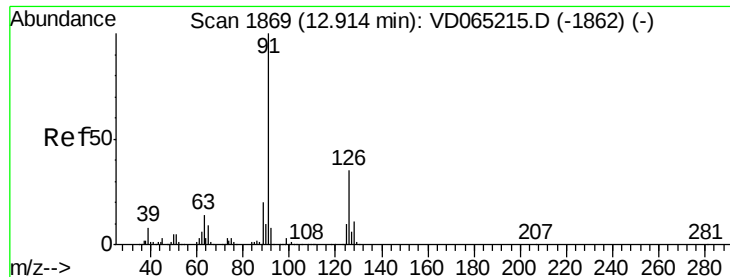
#78
n-propylbenzene
Concen: 53.324 ug/l
RT: 12.83 min Scan# 1855
Delta R.T. 0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.5	34.5



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 51.542 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 722327

Ion Ratio Lower Upper

91 100

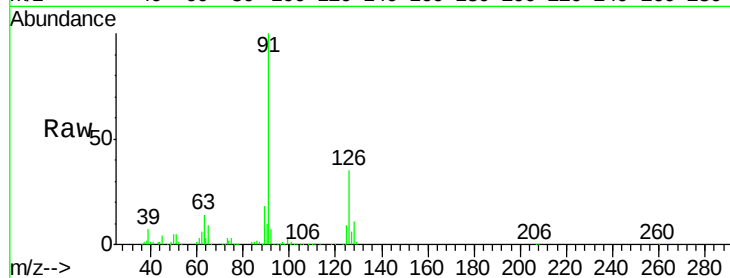
126 35.3 17.5 52.6

Manual Integrations

APPROVED

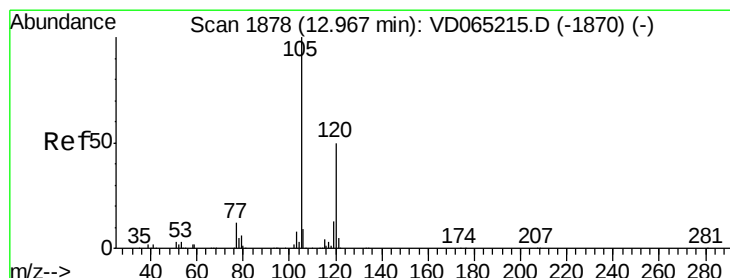
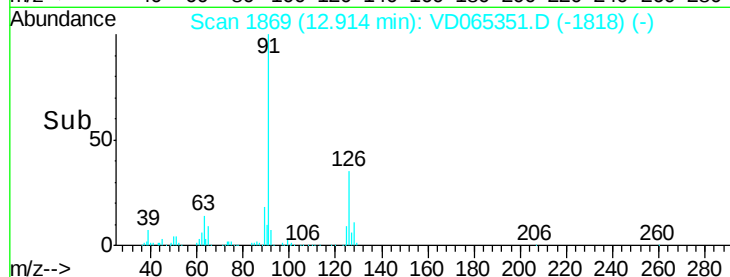
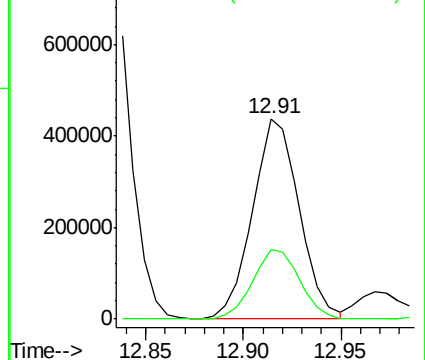
MMDadoda

3/2/2020 10:35:29 AM



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 53.500 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD065351.D

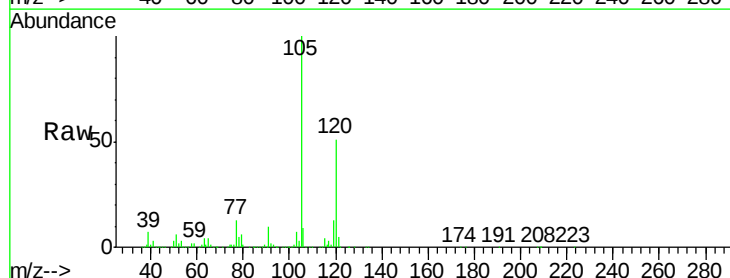
Acq: 28 Feb 2020 09:55

Tgt Ion: 105 Resp: 917284

Ion Ratio Lower Upper

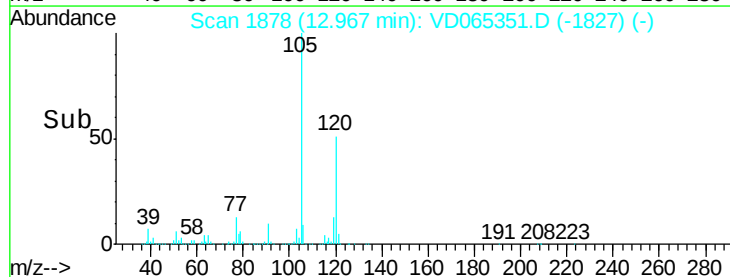
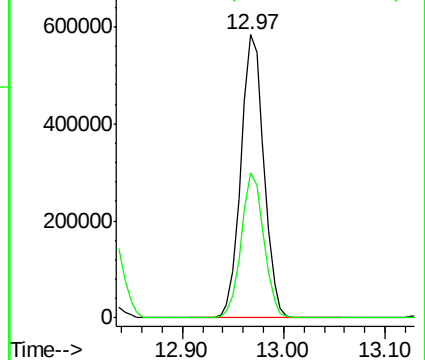
105 100

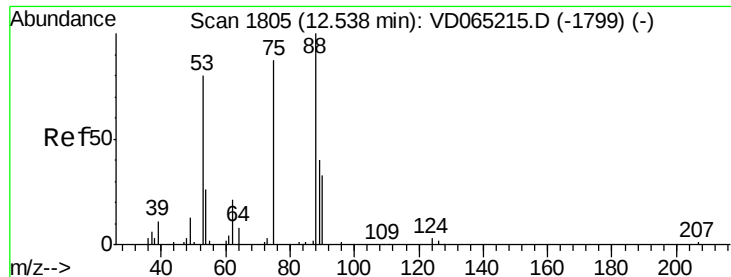
120 50.6 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 44.476 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

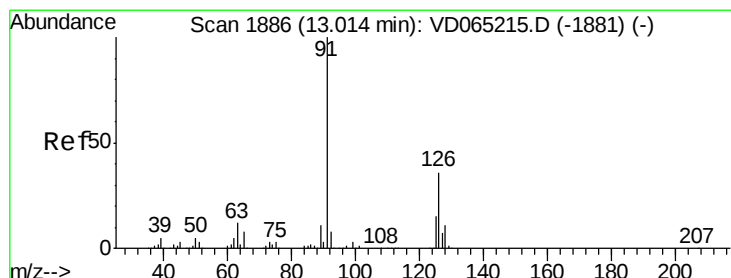
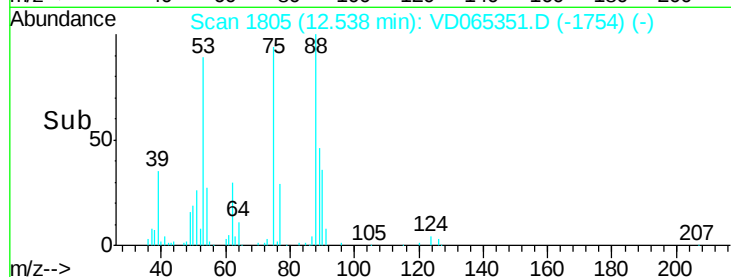
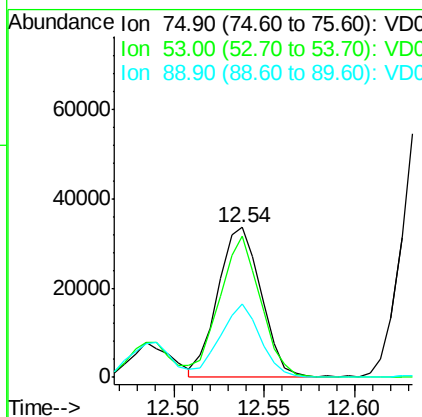
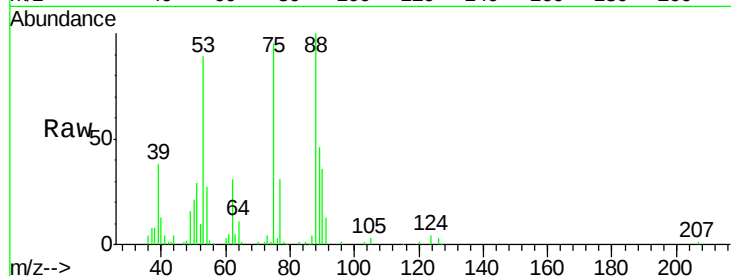
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	55108
Ion	Ratio	Lower	Upper
75	100		
53	89.9	77.6	116.4
89	46.3	37.2	55.8

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



#82

4-Chlorotoluene

Concen: 51.203 ug/l

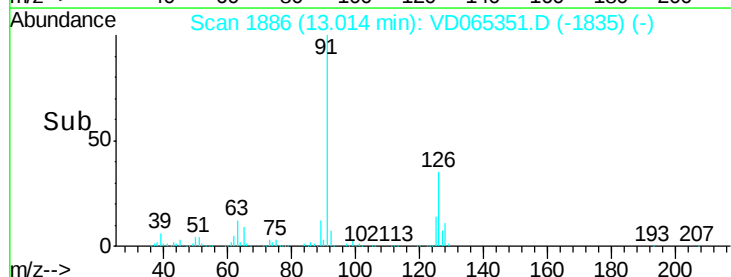
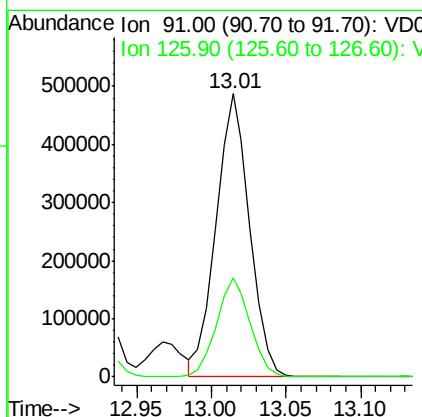
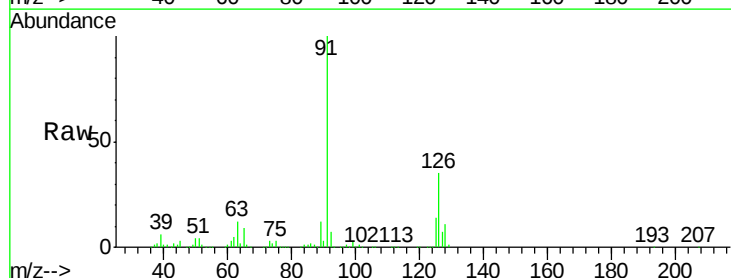
RT: 13.01 min Scan# 1886

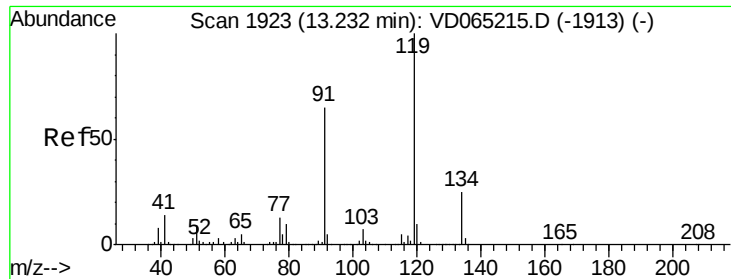
Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Tgt Ion:	91	Resp:	761815
Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.4	52.3





#83

tert-Butylbenzene

Concen: 55.345 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

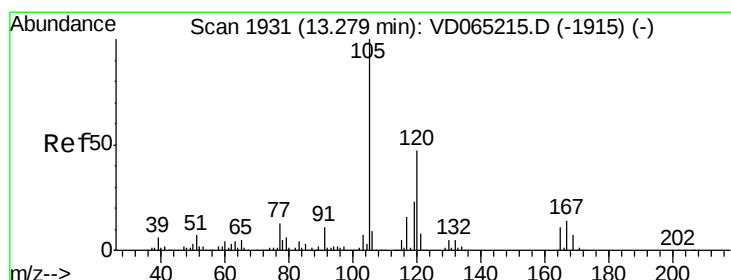
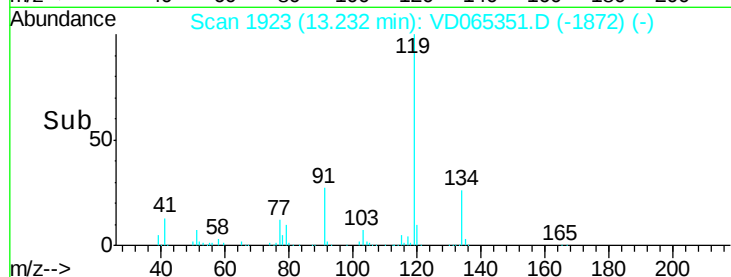
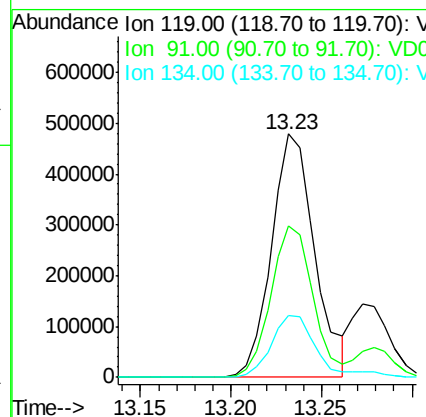
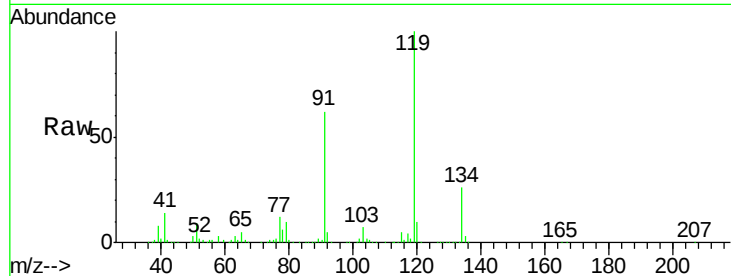
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	795325
Ion Ratio	Lower	Upper	
119	100		
91	60.5	31.9	95.5
134	26.9	13.8	41.3

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



#84

1,2,4-Trimethylbenzene

Concen: 53.047 ug/l

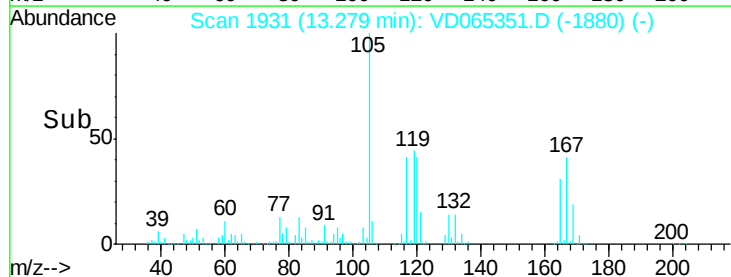
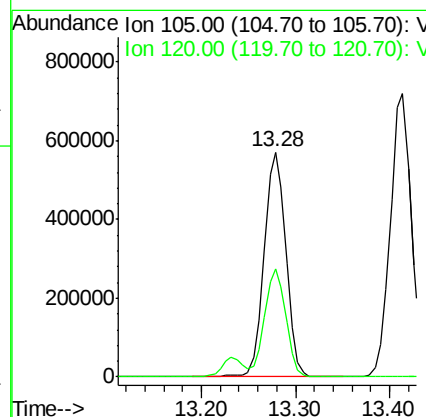
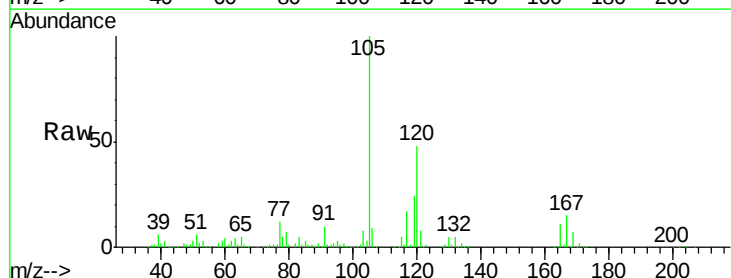
RT: 13.28 min Scan# 1931

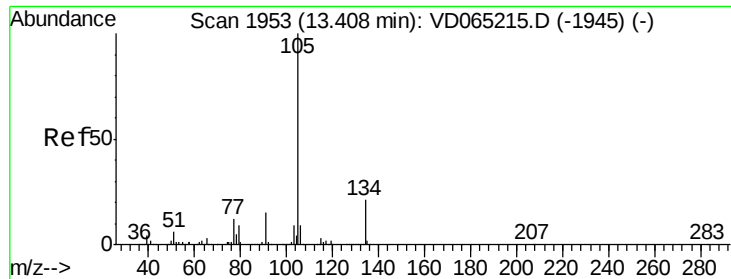
Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Tgt Ion:	105	Resp:	910357
Ion Ratio	Lower	Upper	
105	100		
120	47.2	23.3	69.9





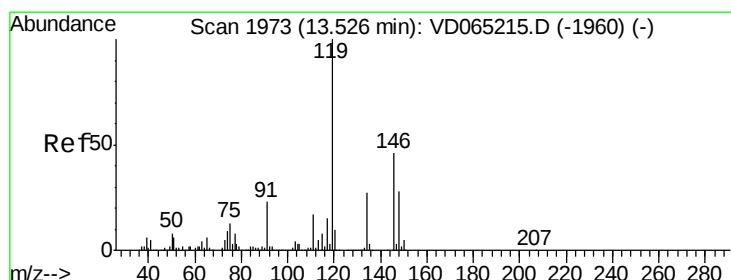
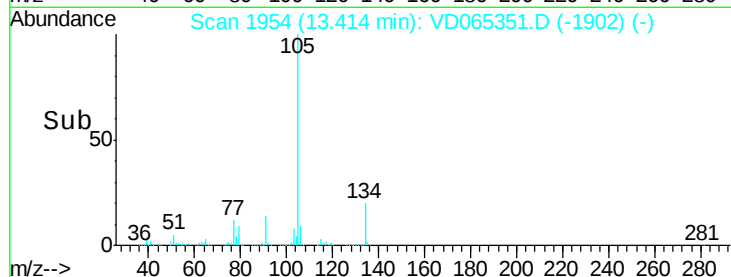
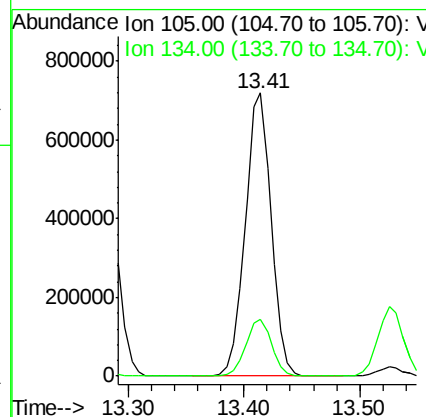
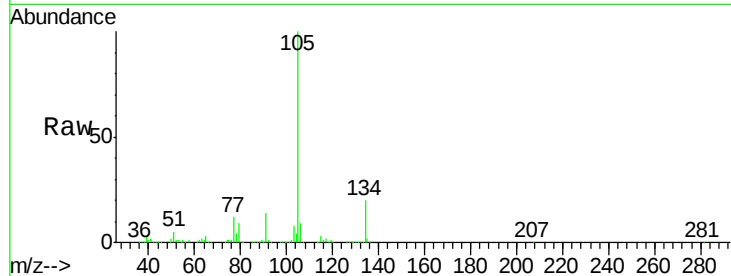
#85
 sec-Butylbenzene
 Concen: 53.825 ug/l
 RT: 13.41 min Scan# 1954
 Delta R.T. 0.01 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1114542
 Ion Ratio Lower Upper
 105 100
 134 20.3 10.3 30.9

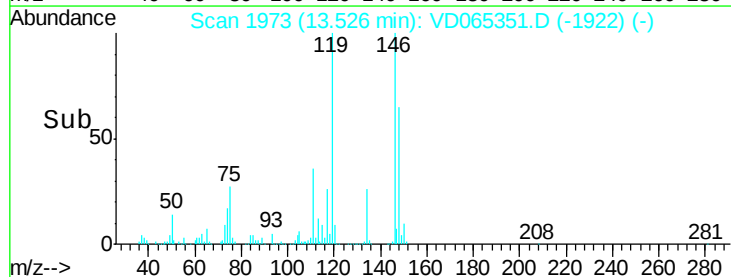
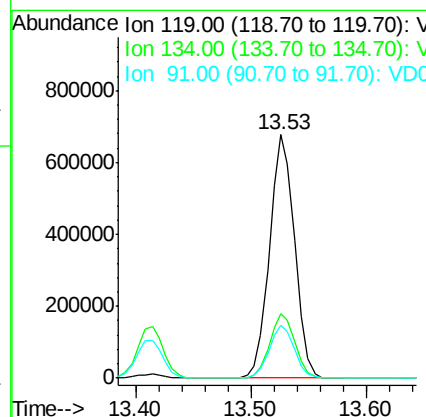
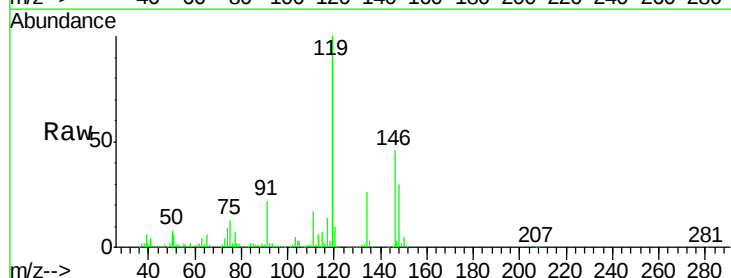
Manual Integrations
 APPROVED

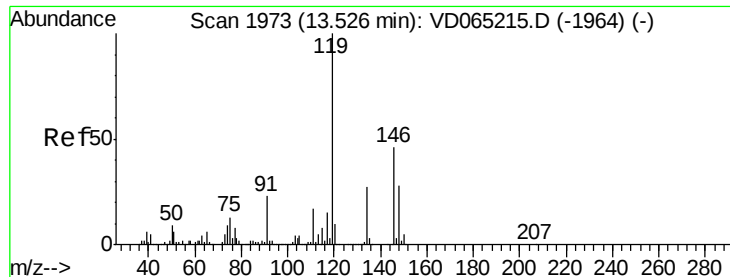
MMDadoda
 3/2/2020 10:35:29 AM



#86
 p-Isopropyltoluene
 Concen: 54.133 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Tgt Ion:119 Resp: 1025070
 Ion Ratio Lower Upper
 119 100
 134 26.5 13.3 39.8
 91 21.6 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 50.436 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Instrument :

MSVOA_D

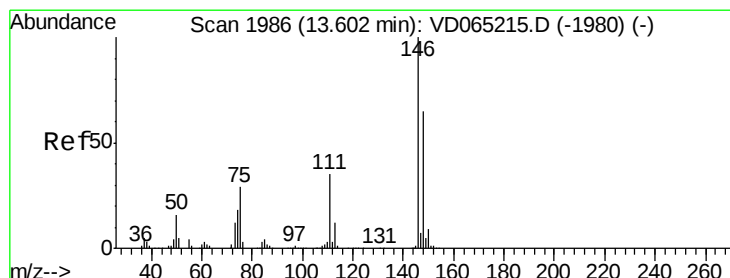
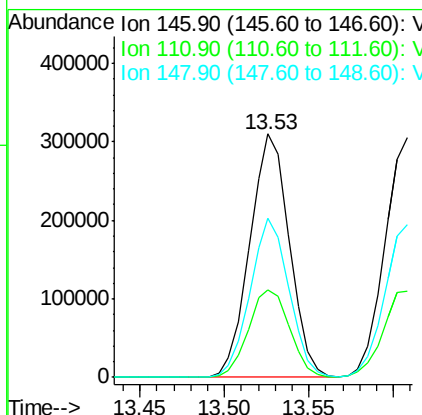
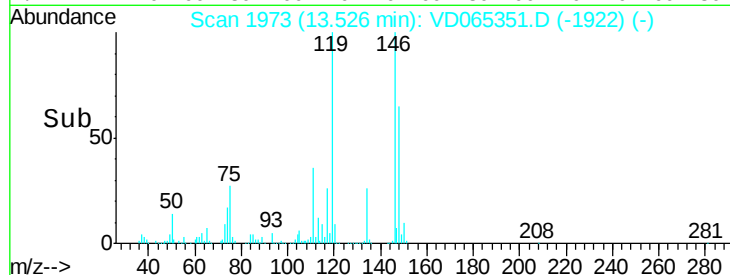
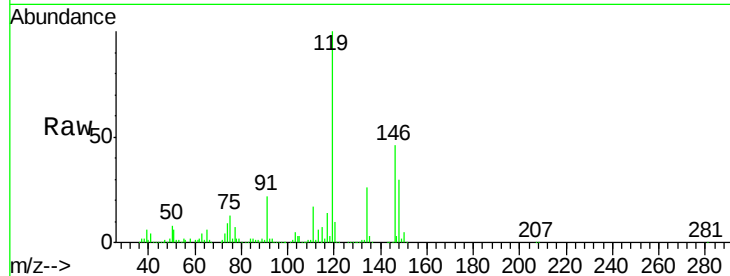
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	504027
Ion Ratio	Lower	Upper	
146	100		
111	37.5	18.6	55.8
148	64.4	31.4	94.3

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



#88

1,4-Dichlorobenzene

Concen: 49.602 ug/l

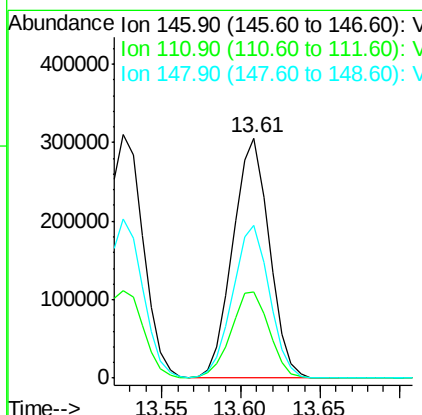
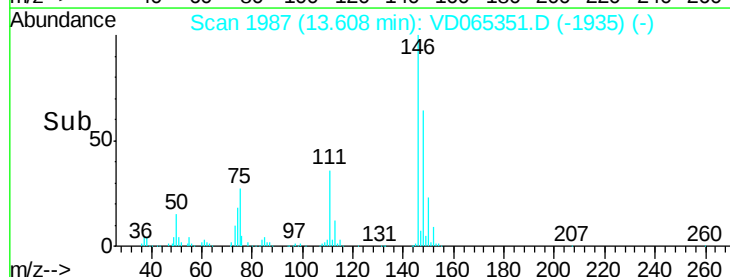
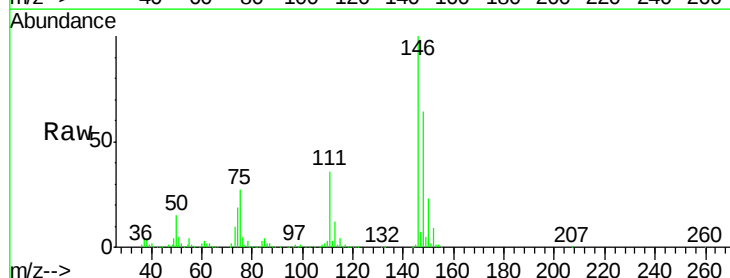
RT: 13.61 min Scan# 1987

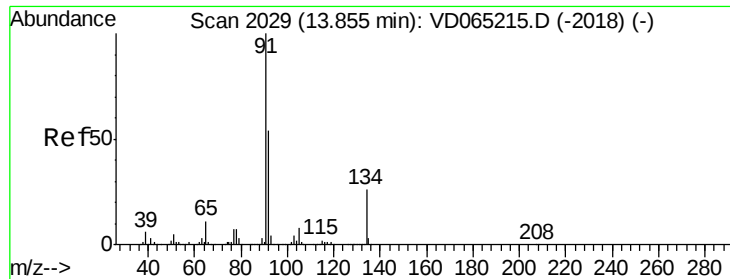
Delta R.T. 0.01 min

Lab File: VD065351.D

Acq: 28 Feb 2020 09:55

Tgt Ion:	146	Resp:	489225
Ion Ratio	Lower	Upper	
146	100		
111	37.5	18.4	55.2
148	64.2	32.1	96.5





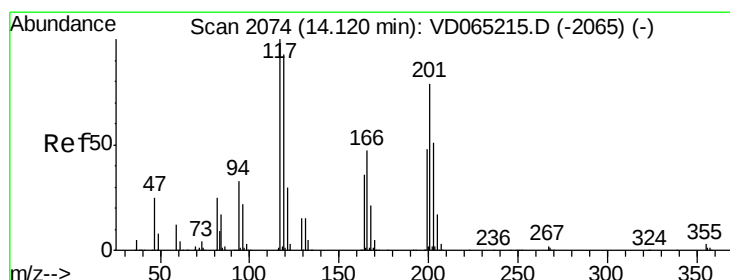
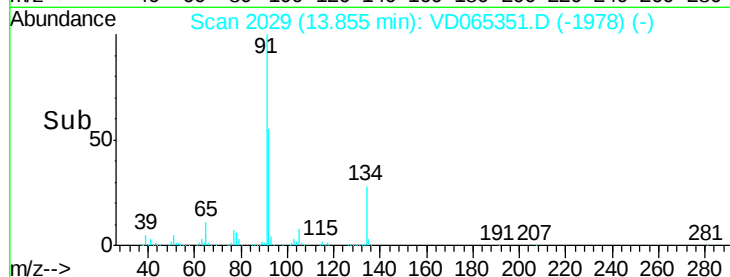
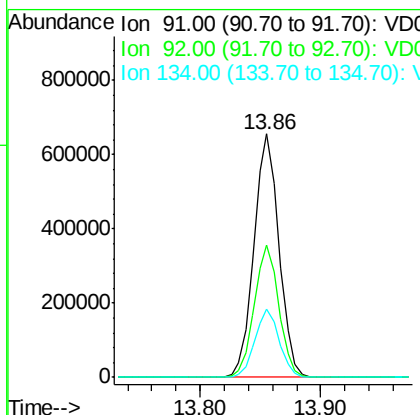
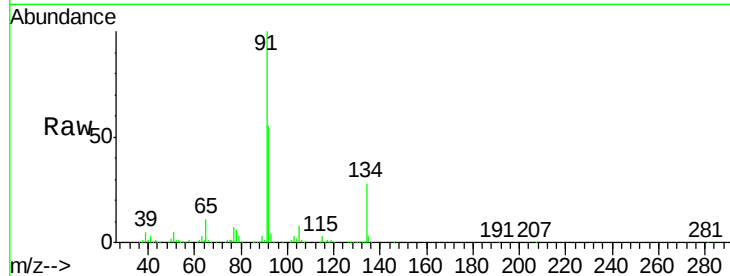
#89
n-Butylbenzene
Concen: 54.387 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.5	27.0	80.8
134	27.2	13.5	40.4

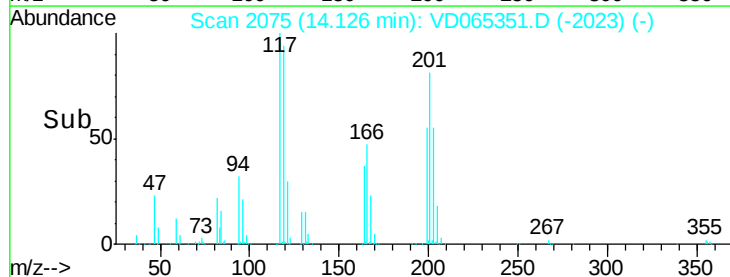
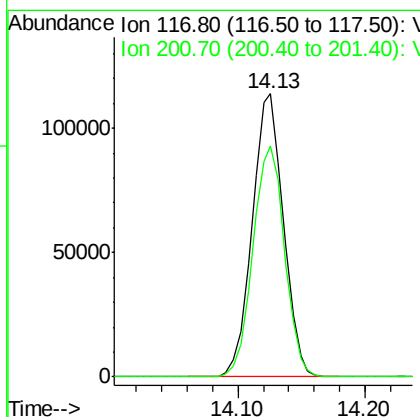
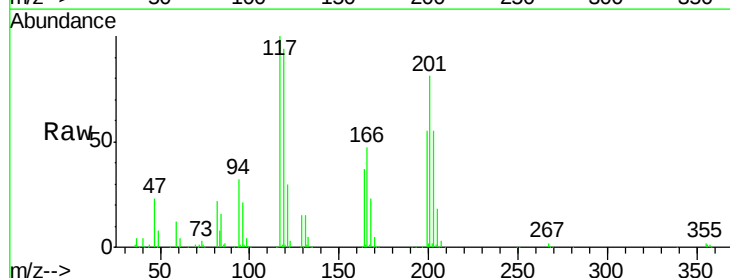
Manual Integrations
APPROVED

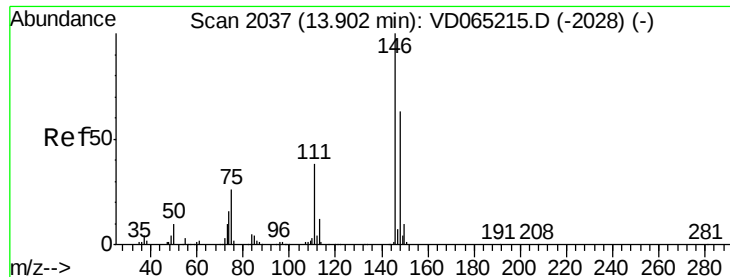
MMDadoda
3/2/2020 10:35:29 AM



#90
Hexachloroethane
Concen: 50.780 ug/l
RT: 14.13 min Scan# 2075
Delta R.T. 0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.6	41.3	124.1





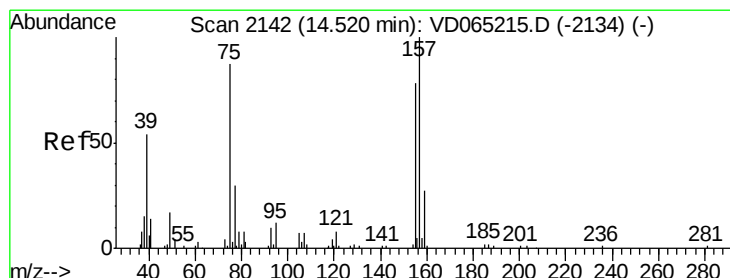
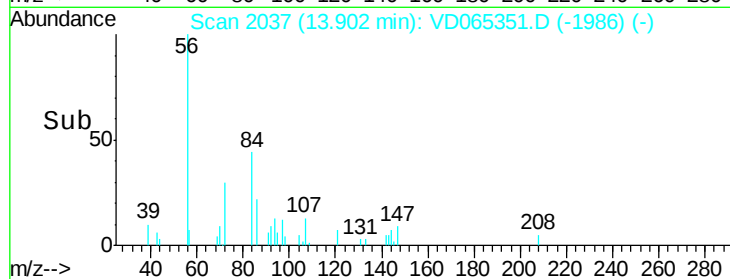
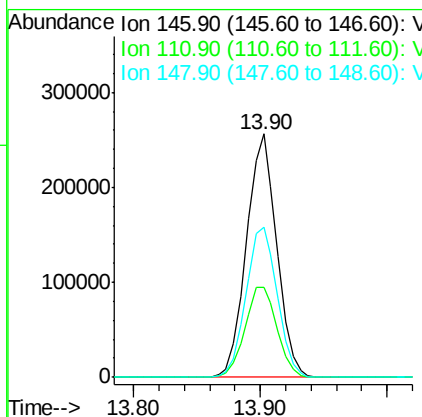
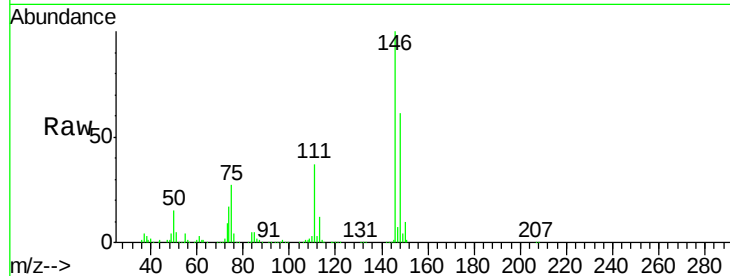
#91
 1,2-Dichlorobenzene
 Concen: 49.442 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.7	59.0
148	63.9	32.0	96.2

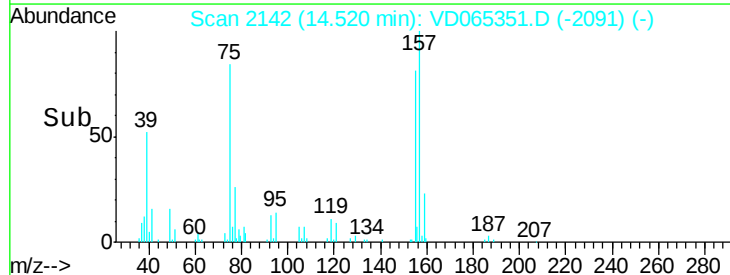
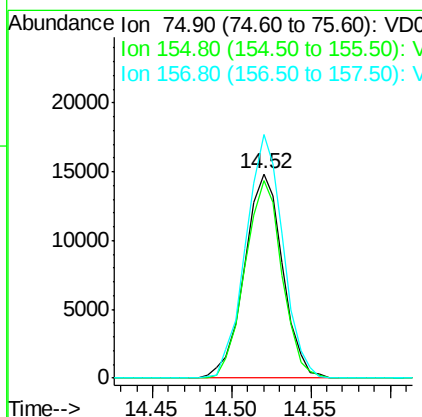
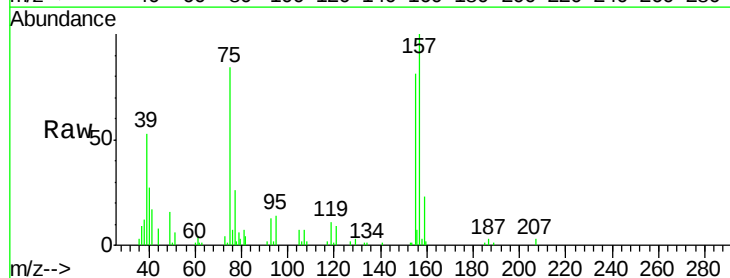
Manual Integrations
 APPROVED

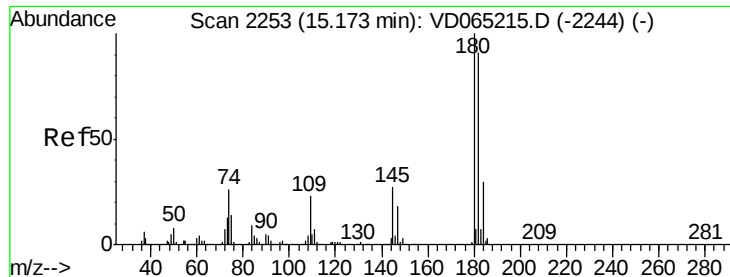
MMDadoda
 3/2/2020 10:35:29 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 42.891 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.6	42.3	126.9
157	116.5	56.7	170.1





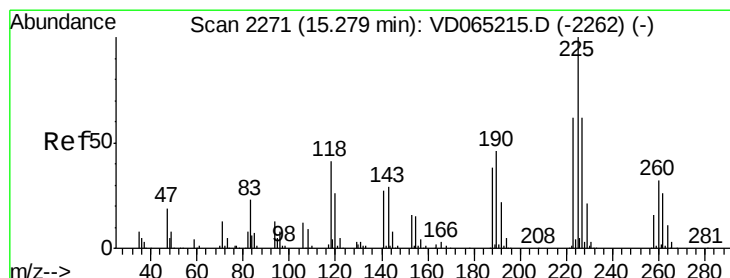
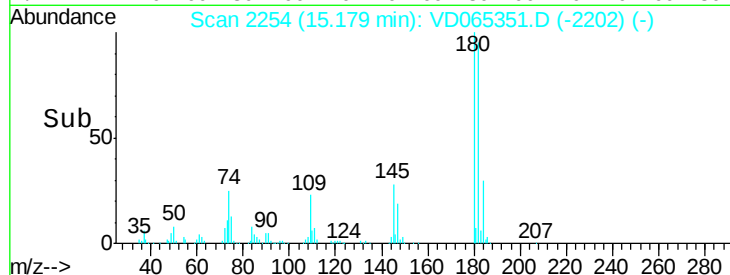
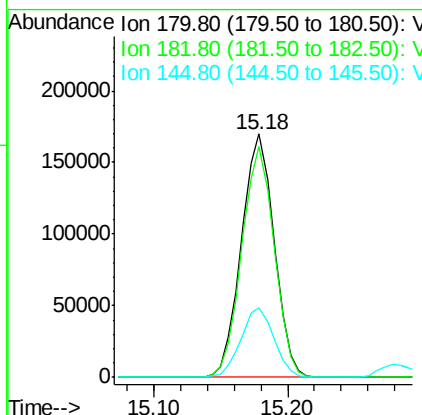
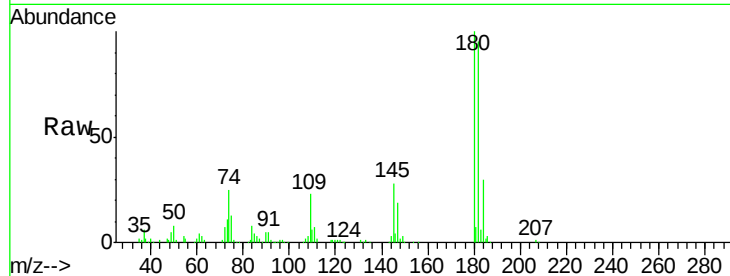
#93
 1,2,4-Trichlorobenzene
 Concen: 51.277 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.01 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	287801		
182	94.1	46.9	140.6	
145	28.8	13.9	41.7	

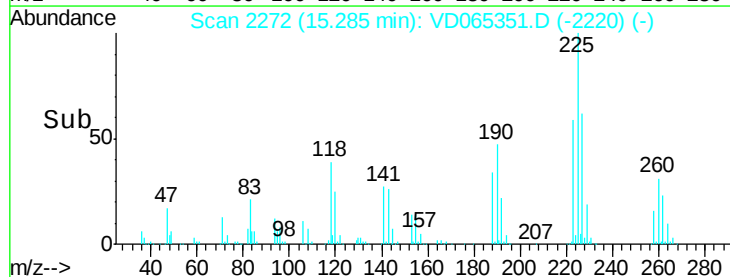
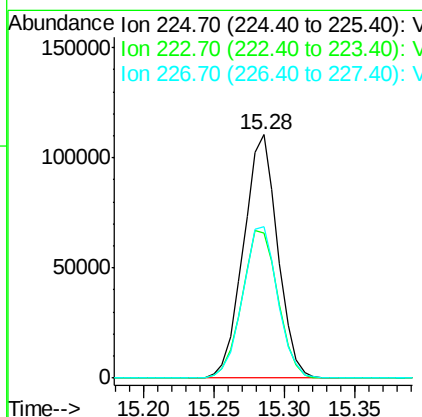
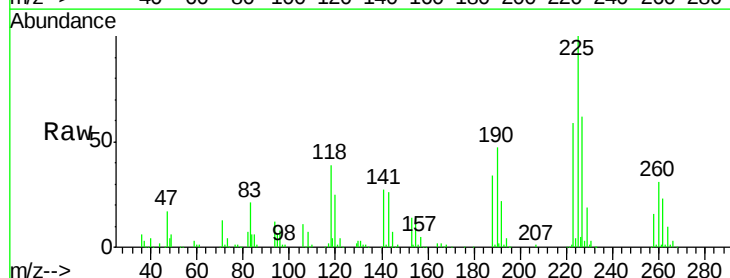
Manual Integrations
 APPROVED

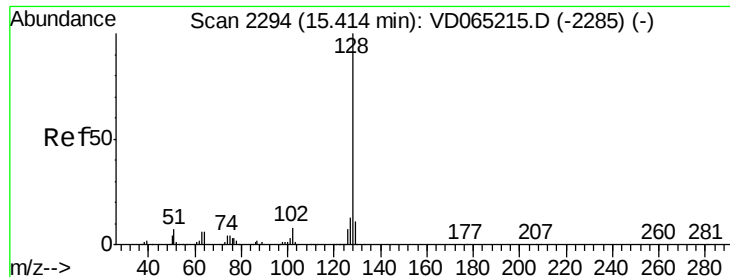
MMDadoda
 3/2/2020 10:35:29 AM



#94
 Hexachlorobutadiene
 Concen: 52.124 ug/l
 RT: 15.28 min Scan# 2272
 Delta R.T. 0.01 min
 Lab File: VD065351.D
 Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	187670		
223	63.4	31.4	94.2	
227	63.7	31.7	95.1	





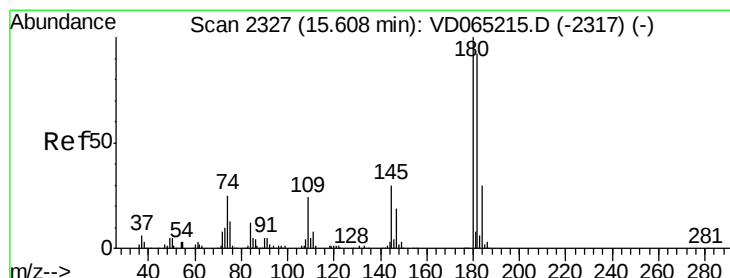
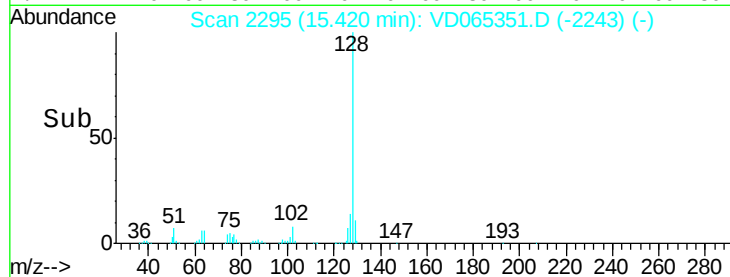
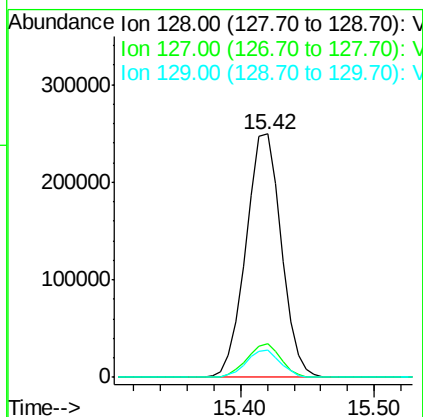
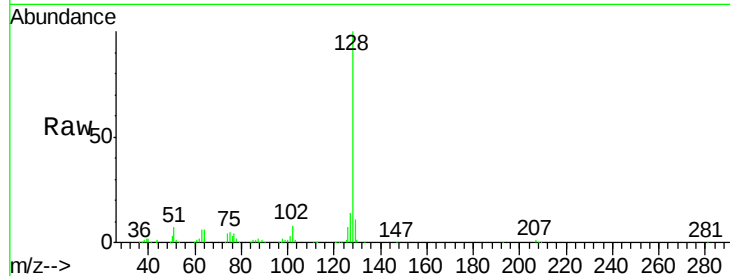
#95
Naphthalene
Concen: 49.988 ug/l
RT: 15.42 min Scan# 2295
Delta R.T. 0.01 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.3	15.5
129	11.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
3/2/2020 10:35:29 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.687 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD065351.D
Acq: 28 Feb 2020 09:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	46.9	140.6
145	30.3	15.4	46.1

