

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030320\
 Data File : VD065387.D
 Acq On : 03 Mar 2020 11:47
 Operator : VA/SY
 Sample : VD0303SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/4/2020 2:01:24 PM

Quant Time: Mar 04 05:02:55 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	7.98	168	460684	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	668745	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	608472	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	308636	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	194441	46.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.84%	
35) Dibromofluoromethane	7.92	113	206277	50.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.18%	
50) Toluene-d8	10.34	98	803067	51.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.04%	
62) 4-Bromofluorobenzene	12.64	95	257525	52.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	68889	17.829	ug/l	96
3) Chloromethane	2.21	50	89430	18.184	ug/l	97
4) Vinyl Chloride	2.35	62	91139	18.224	ug/l	98
5) Bromomethane	2.76	94	58926	19.488	ug/l	98
6) Chloroethane	2.92	64	57436	18.815	ug/l	96
7) Trichlorofluoromethane	3.27	101	144973	20.248	ug/l	100
8) Diethyl Ether	3.71	74	44543	20.610	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.08	101	95725	21.171	ug/l	99
10) Methyl Iodide	4.30	142	96793	20.618	ug/l	99
11) Tert butyl alcohol	5.24	59	28859	116.531	ug/l #	93
12) 1,1-Dichloroethene	4.06	96	85977	20.129	ug/l	94
13) Acrolein	3.92	56	32142	86.867	ug/l	100
14) Allyl chloride	4.71	41	136172	19.632	ug/l	97
15) Acrylonitrile	5.43	53	101600	106.181	ug/l	99
16) Acetone	4.16	43	89930	88.769	ug/l	99
17) Carbon Disulfide	4.40	76	263451	18.398	ug/l	99
18) Methyl Acetate	4.71	43	52940	23.235	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	179003	20.097	ug/l	99
20) Methylene Chloride	4.96	84	105376	20.660	ug/l	92
21) trans-1,2-Dichloroethene	5.47	96	98524	20.291	ug/l	97
22) Diisopropyl ether	6.37	45	273309	20.440	ug/l	98
23) Vinyl Acetate	6.31	43	717620	97.351	ug/l	98
24) 1,1-Dichloroethane	6.27	63	168171	20.277	ug/l	97
25) 2-Butanone	7.23	43	120485	93.999	ug/l	98
26) 2,2-Dichloropropane	7.21	77	147711	20.527	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	102281	19.886	ug/l	98
28) Bromochloromethane	7.55	49	56622	18.402	ug/l	96
29) Tetrahydrofuran	7.57	42	78107	104.001	ug/l	100
30) Chloroform	7.71	83	172129	20.600	ug/l	99
31) Cyclohexane	7.98	56	158428	19.442	ug/l	98
32) 1,1,1-Trichloroethane	7.91	97	156514	20.936	ug/l	99
36) 1,1-Dichloropropene	8.11	75	137032	21.059	ug/l	99
37) Ethyl Acetate	7.30	43	54857	20.167	ug/l	99
38) Carbon Tetrachloride	8.10	117	145590	21.979	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030320\
 Data File : VD065387.D
 Acq On : 03 Mar 2020 11:47
 Operator : VA/SY
 Sample : VD0303SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0303SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/4/2020 2:01:24 PM

Quant Time: Mar 04 05:02:55 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	157404	20.576	ug/l	98
40) Benzene	8.36	78	390923	21.285	ug/l	98
41) Methacrylonitrile	7.54	41	34436m	21.925	ug/l	
42) 1,2-Dichloroethane	8.43	62	107223	21.236	ug/l	98
43) Isopropyl Acetate	8.46	43	102162	20.653	ug/l	98
44) Trichloroethene	9.11	130	110500	21.705	ug/l	95
45) 1,2-Dichloropropane	9.39	63	96876	21.212	ug/l	95
46) Dibromomethane	9.48	93	50884	21.655	ug/l	98
47) Bromodichloromethane	9.67	83	134168	21.666	ug/l	99
48) Methyl methacrylate	9.46	41	47389	20.726	ug/l	92
49) 1,4-Dioxane	9.47	88	11106	402.982	ug/l	93
51) 4-Methyl-2-Pentanone	10.24	43	267565	106.496	ug/l	100
52) Toluene	10.41	92	252055	22.171	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	122763	21.388	ug/l	98
54) cis-1,3-Dichloropropene	10.09	75	147845	21.330	ug/l	96
55) 1,1,2-Trichloroethane	10.81	97	73784	22.309	ug/l	98
56) Ethyl methacrylate	10.67	69	81071	21.237	ug/l	98
57) 1,3-Dichloropropane	10.95	76	123973	22.024	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.95	63	117957	98.010	ug/l	98
59) 2-Hexanone	10.99	43	184576	102.628	ug/l	96
60) Dibromochloromethane	11.14	129	92664	21.890	ug/l	99
61) 1,2-Dibromoethane	11.25	107	69166	22.088	ug/l	99
64) Tetrachloroethene	10.88	164	96396	22.337	ug/l	93
65) Chlorobenzene	11.67	112	264710	21.679	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	100859	22.135	ug/l	98
67) Ethyl Benzene	11.75	91	456770	21.359	ug/l	99
68) m/p-Xylenes	11.86	106	363911	44.478	ug/l	97
69) o-Xylene	12.18	106	156340	21.568	ug/l	99
70) Styrene	12.20	104	287843	22.366	ug/l	99
71) Bromoform	12.37	173	56631	22.397	ug/l #	97
73) Isopropylbenzene	12.48	105	433390	21.210	ug/l	100
74) N-amyl acetate	12.30	43	90076	19.839	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.74	83	79543	21.570	ug/l	99
76) 1,2,3-Trichloropropane	12.78	75	60363m	22.987	ug/l	
77) Bromobenzene	12.77	156	109470	21.575	ug/l	99
78) n-propylbenzene	12.83	91	532027	21.667	ug/l	98
79) 2-Chlorotoluene	12.91	91	294891	21.437	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	367625	21.844	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.53	75	25268	20.776	ug/l	94
82) 4-Chlorotoluene	13.01	91	312131	21.373	ug/l	99
83) tert-Butylbenzene	13.23	119	302244	21.428	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	359988	21.371	ug/l	99
85) sec-Butylbenzene	13.41	105	433740	21.340	ug/l	100
86) p-Isopropyltoluene	13.53	119	402299	21.644	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	211770	21.589	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	207381	21.421	ug/l	97
89) n-Butylbenzene	13.86	91	363494	21.223	ug/l	100
90) Hexachloroethane	14.12	117	81862	21.691	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	181828	21.589	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	11838	20.831	ug/l	99

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD030320\
Data File : VD065387.D
Acq On : 03 Mar 2020 11:47
Operator : VA/SY
Sample : VD0303SBSD01
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBSD01

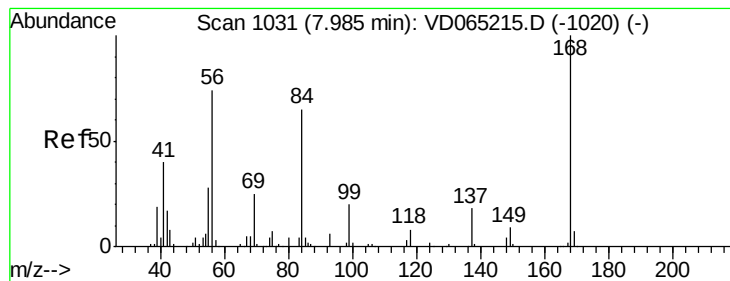
Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM

Quant Time: Mar 04 05:02:55 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	120678	21.905	ug/l	99
94) Hexachlorobutadiene	15.28	225	79588	22.520	ug/l	99
95) Naphthalene	15.41	128	190126	21.229	ug/l	98
96) 1,2,3-Trichlorobenzene	15.61	180	106131	22.058	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion:168 Resp: 460684

Ion Ratio Lower Upper

168 100

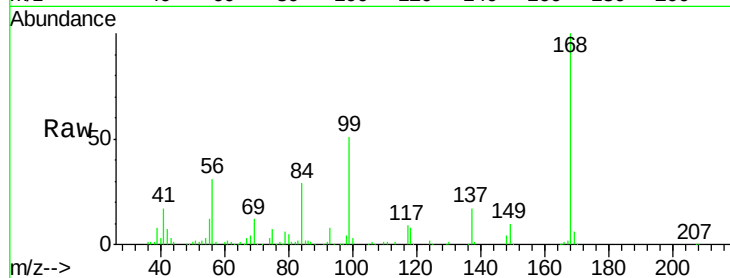
99 50.8 41.4 62.2

Manual Integrations

APPROVED

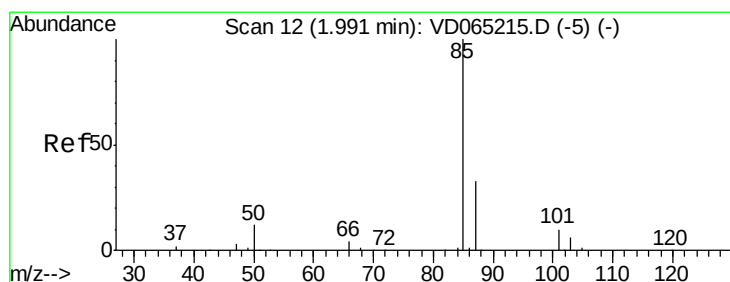
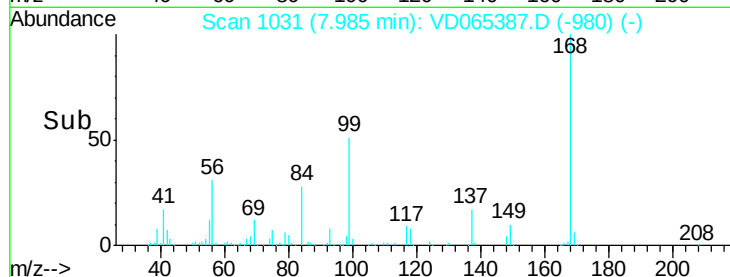
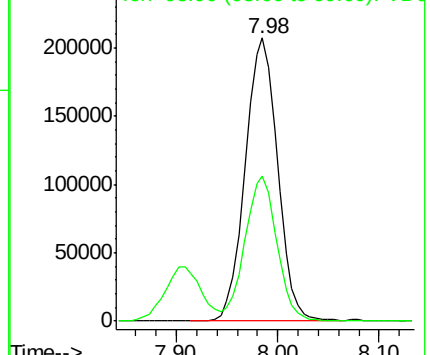
MMDadoda

3/4/2020 2:01:24 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 17.829 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD065387.D

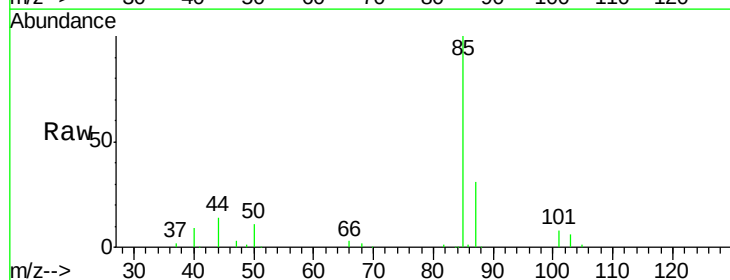
Acq: 03 Mar 2020 11:47

Tgt Ion: 85 Resp: 68889

Ion Ratio Lower Upper

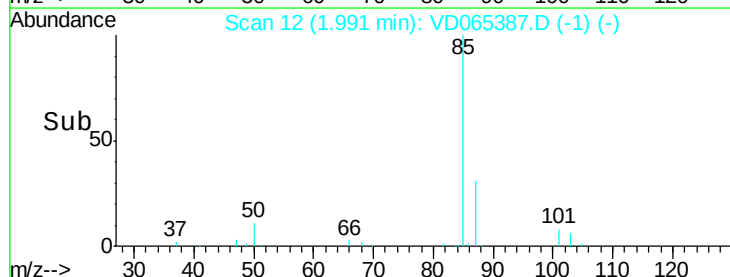
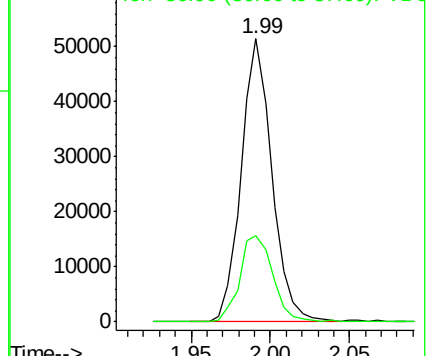
85 100

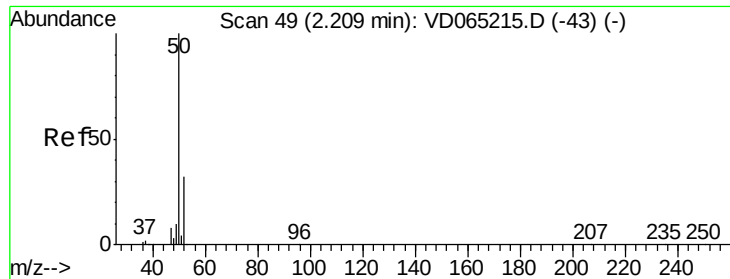
87 30.7 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 18.184 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion: 50 Resp: 89430

Ion Ratio Lower Upper

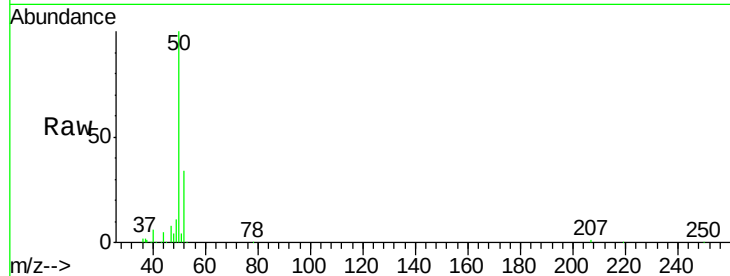
50 100

52 33.7 25.5 38.3

Manual Integrations
APPROVED

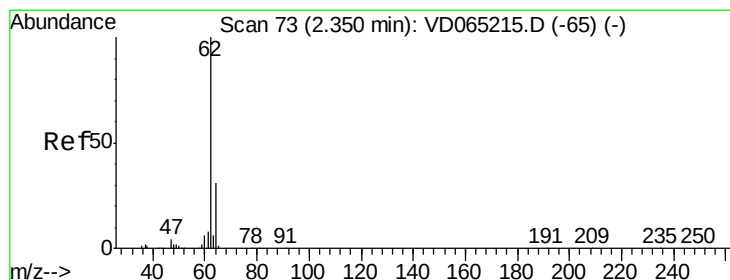
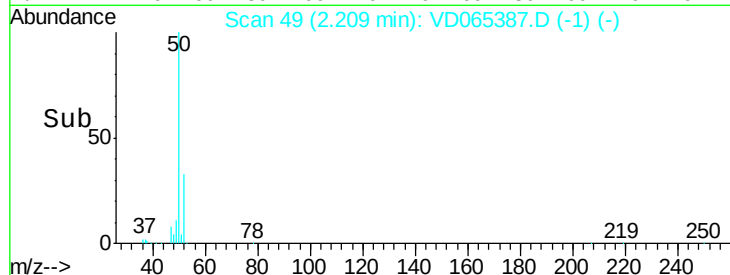
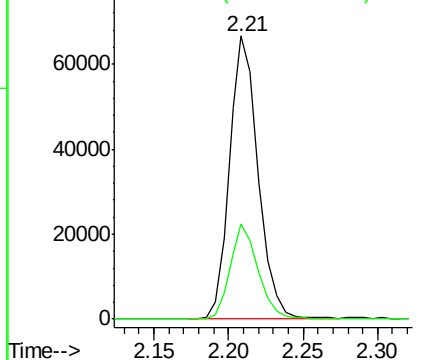
MMDadoda

3/4/2020 2:01:24 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 18.224 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD065387.D

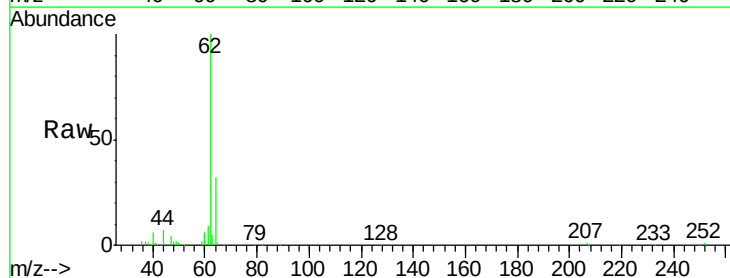
Acq: 03 Mar 2020 11:47

Tgt Ion: 62 Resp: 91139

Ion Ratio Lower Upper

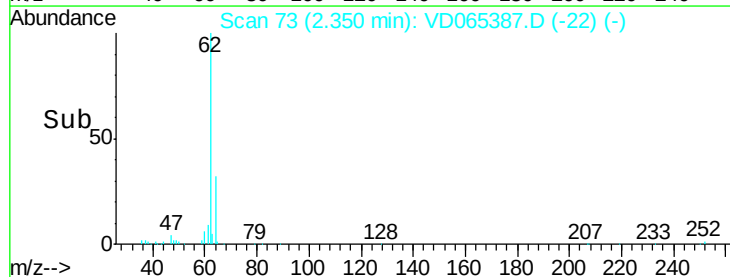
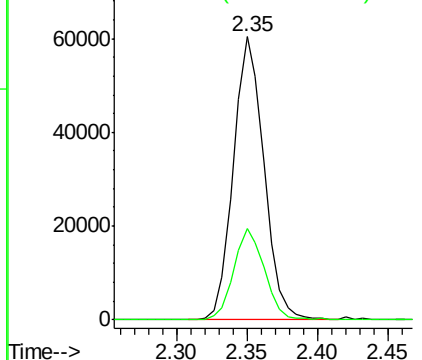
62 100

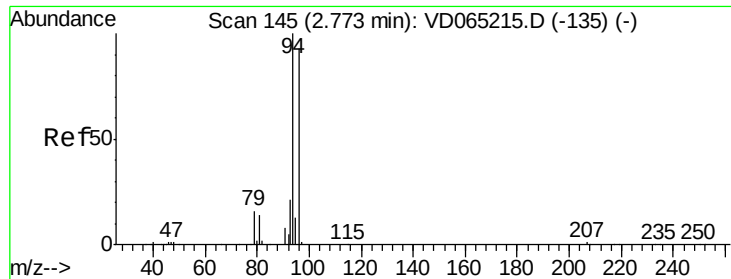
64 32.4 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 19.488 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion: 94 Resp: 58926

Ion Ratio Lower Upper

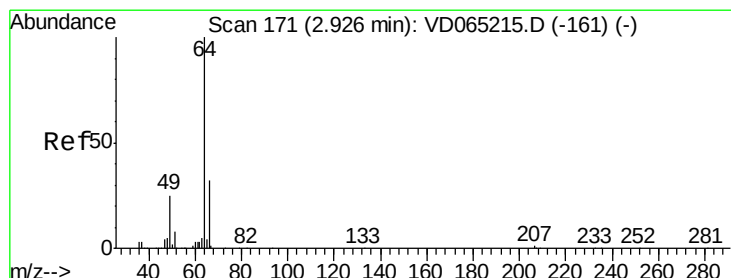
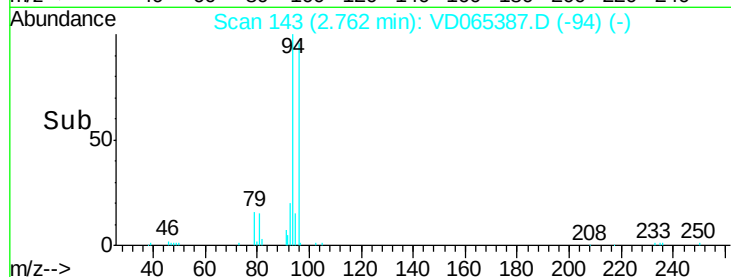
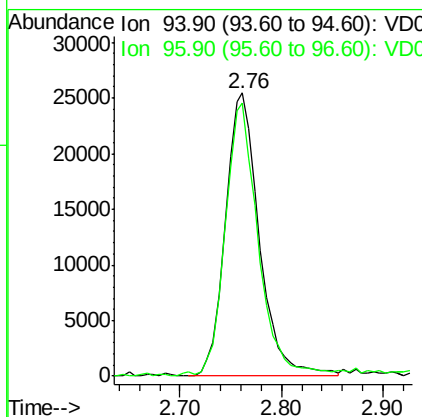
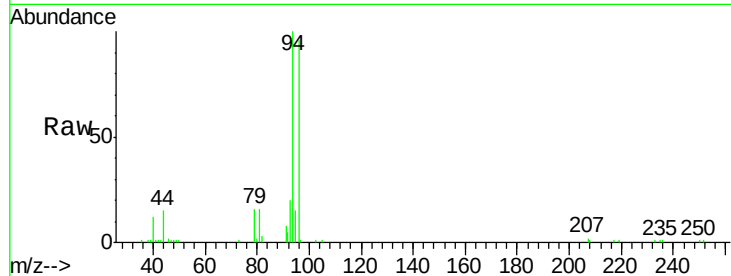
94 100

96 94.8 74.2 111.4

Manual Integrations
APPROVED

MMDadoda

3/4/2020 2:01:24 PM



#6

Chloroethane

Concen: 18.815 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065387.D

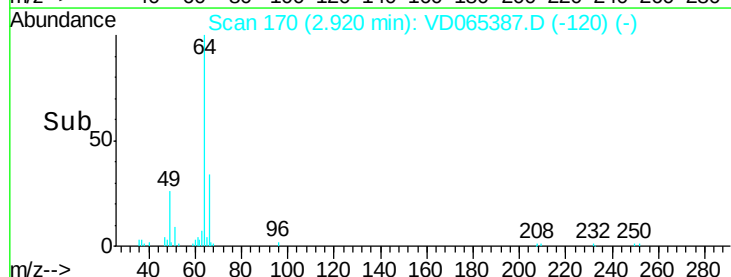
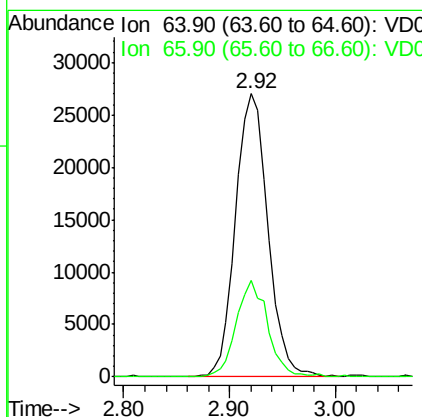
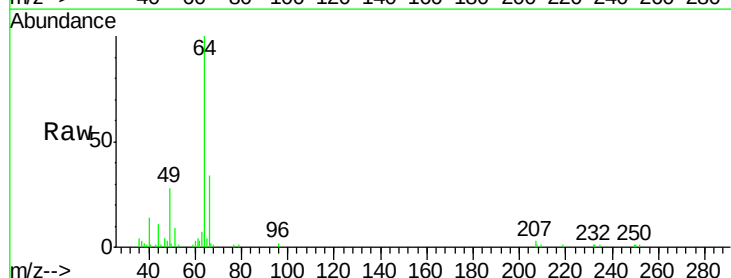
Acq: 03 Mar 2020 11:47

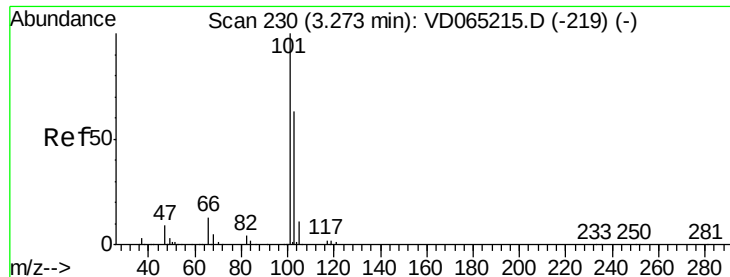
Tgt Ion: 64 Resp: 57436

Ion Ratio Lower Upper

64 100

66 34.2 25.7 38.5





#7

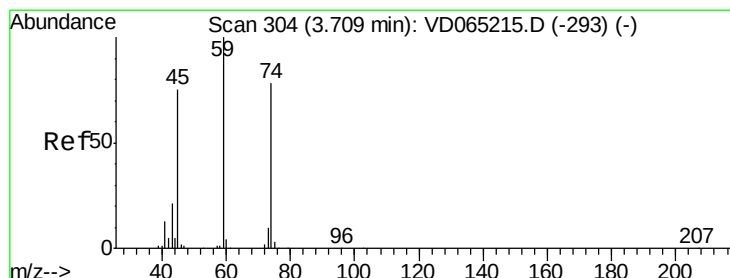
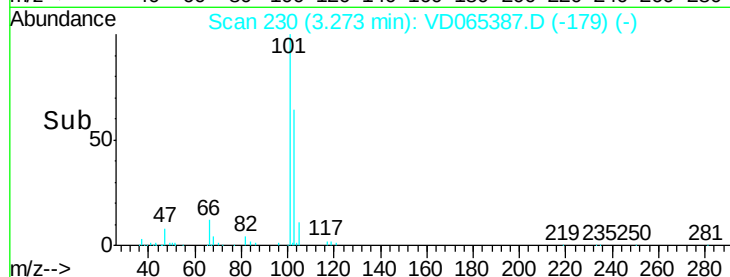
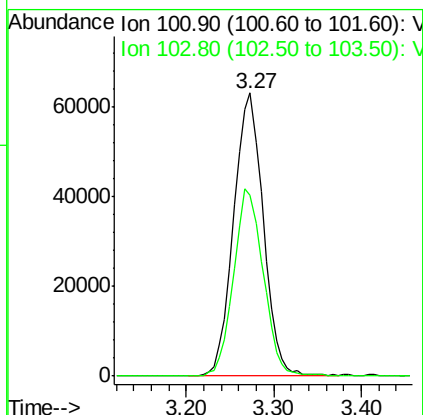
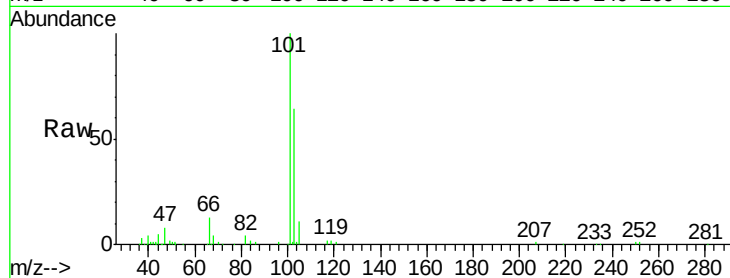
Trichlorofluoromethane
 Concen: 20.248 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	50.7	76.1

Manual Integrations
 APPROVED

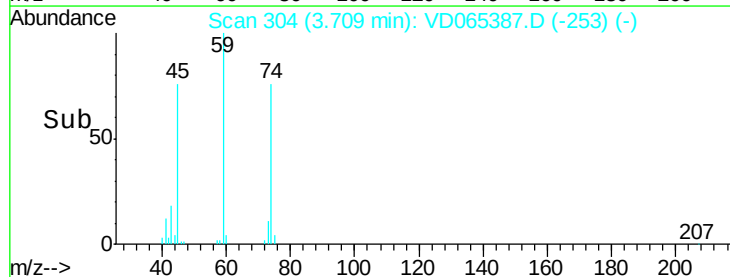
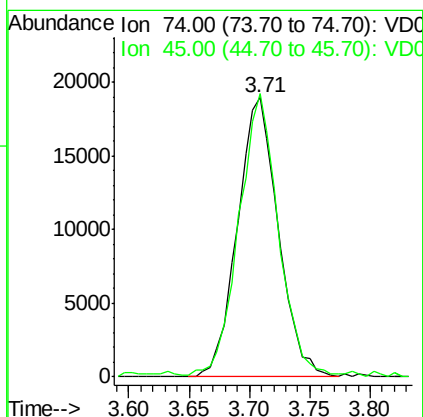
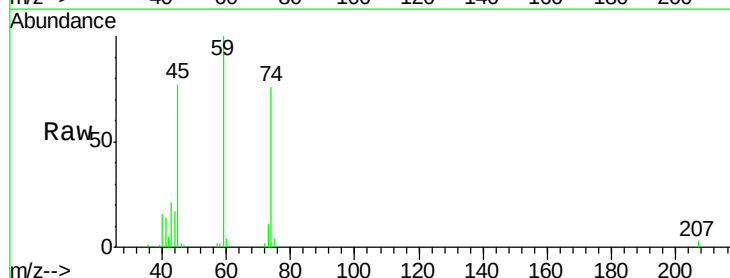
MMDadoda
 3/4/2020 2:01:24 PM

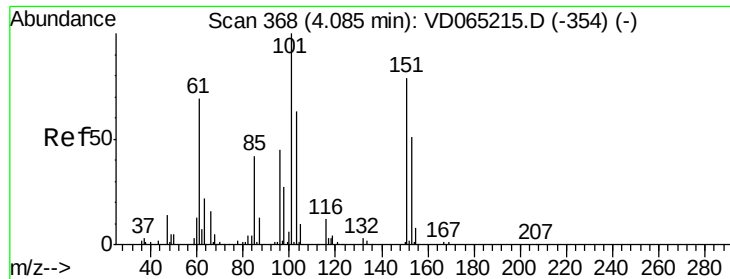


#8

Diethyl Ether
 Concen: 20.610 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.1	50.0	149.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.171 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

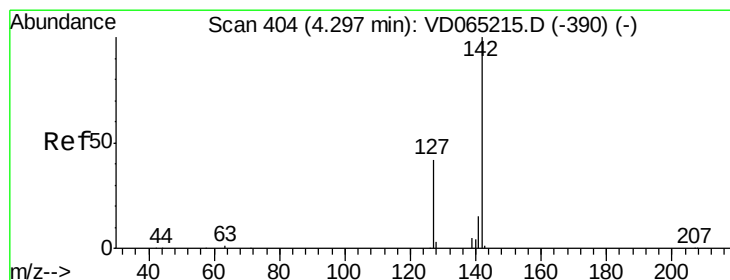
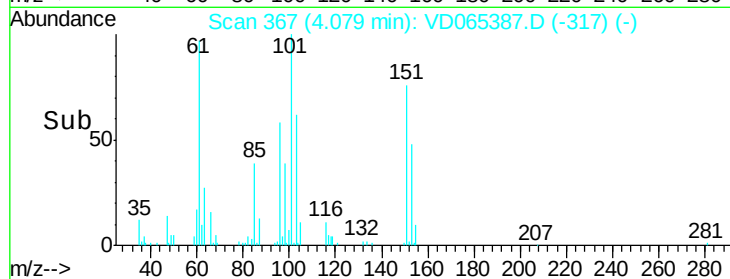
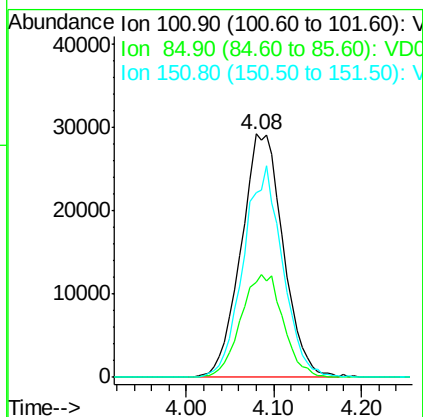
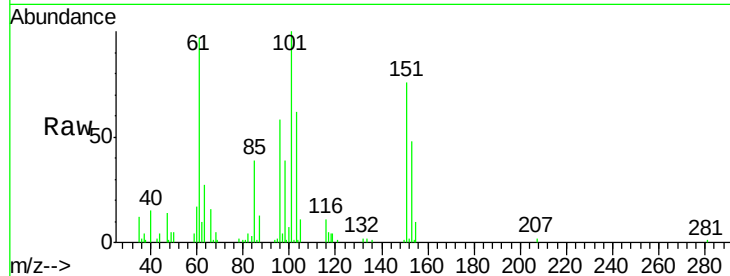
ClientSampleId :

VD0303SBS01

Tot Ion:	101	Resp:	95725
Ion Ratio	Lower	Upper	
101	100		
85	42.4	34.2	51.2
151	80.7	63.5	95.3

Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM



#10

Methyl Iodide

Concen: 20.618 ug/l

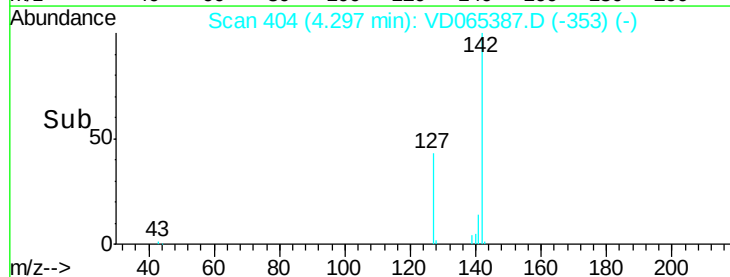
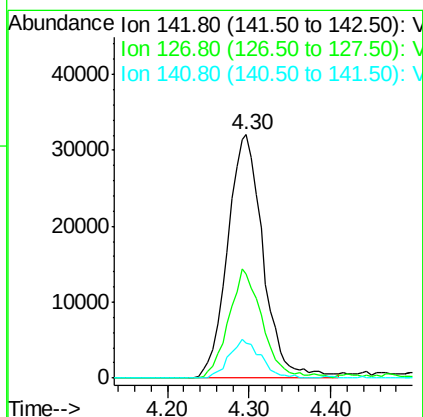
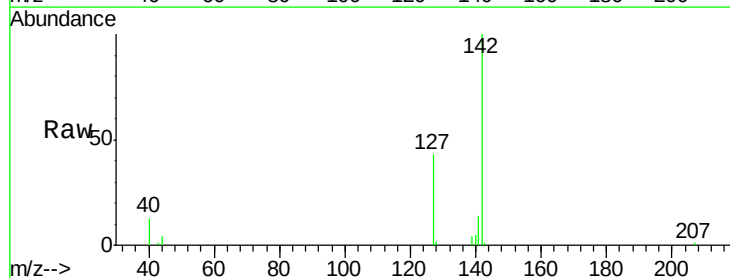
RT: 4.30 min Scan# 404

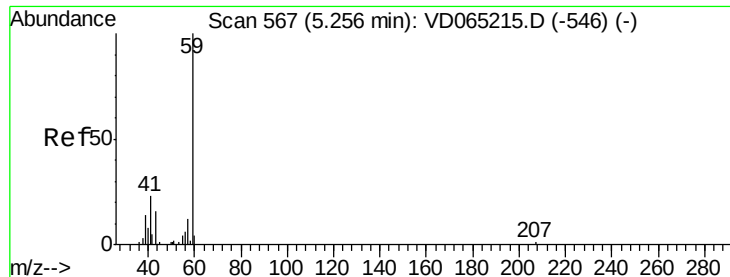
Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Tgt Ion:	142	Resp:	96793
Ion Ratio	Lower	Upper	
142	100		
127	42.7	33.8	50.8
141	14.1	11.7	17.5





#11

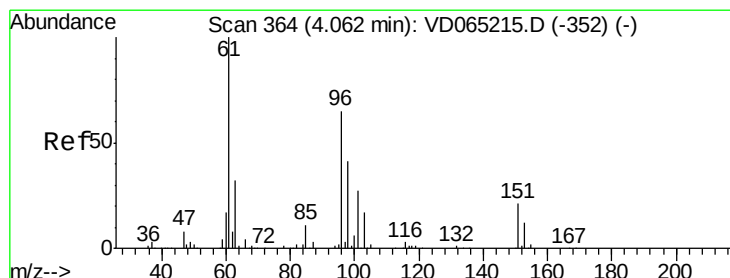
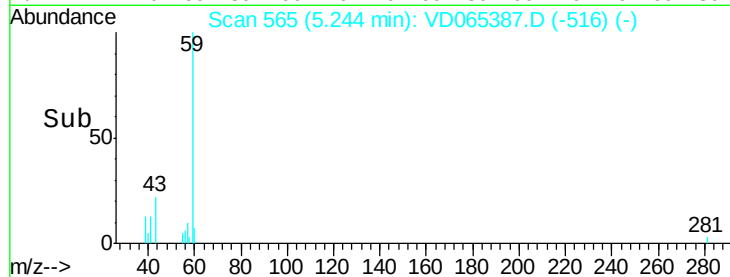
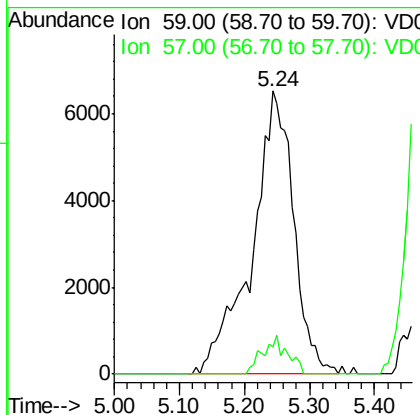
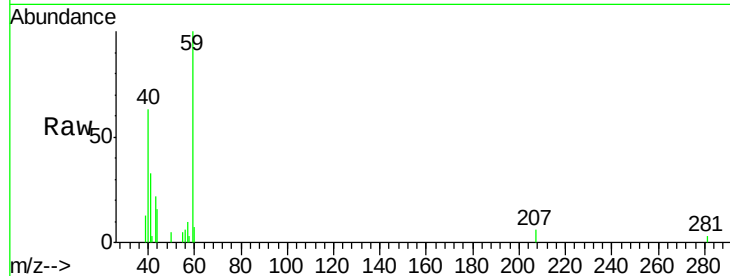
Tert butyl alcohol
 Concen: 116.531 ug/l
 RT: 5.24 min Scan# 565
 Delta R.T. -0.01 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.9	8.4	12.6#

Manual Integrations
 APPROVED

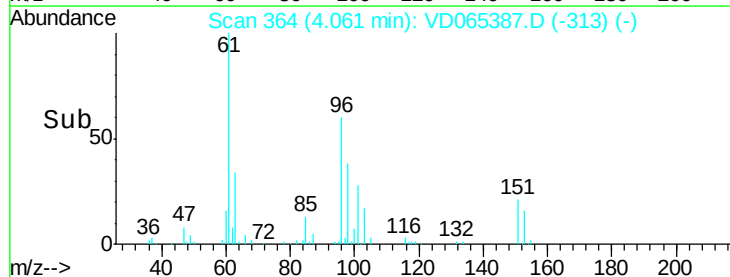
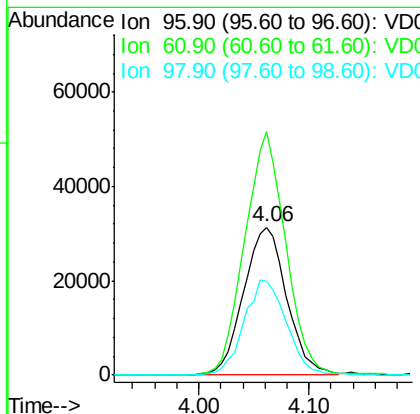
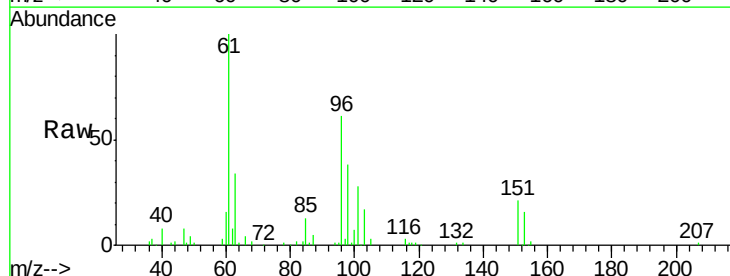
MMDadoda
 3/4/2020 2:01:24 PM

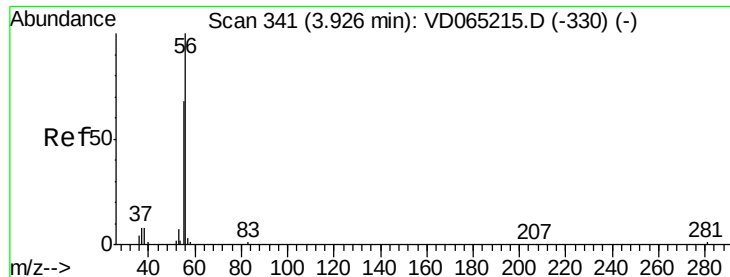


#12

1,1-Dichloroethene
 Concen: 20.129 ug/l
 RT: 4.06 min Scan# 364
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.7	123.3	184.9
98	63.3	51.0	76.4





#13

Acrolein

Concen: 86.867 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBSD01

Tot Ion: 56 Resp: 32142

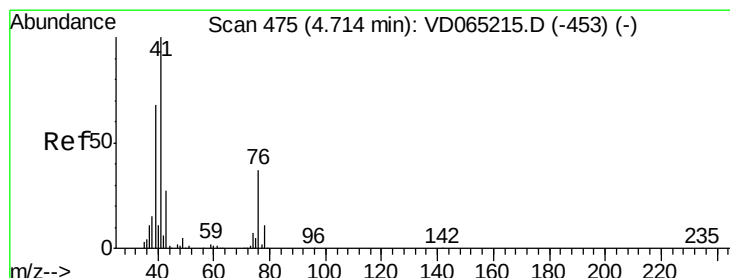
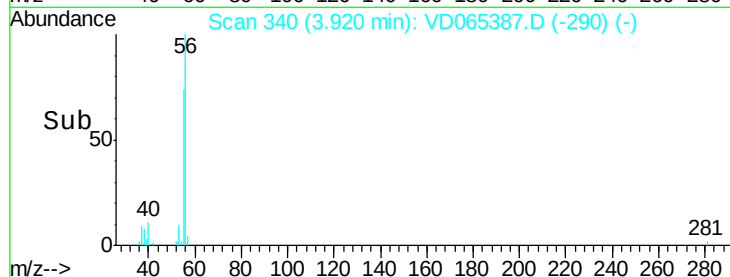
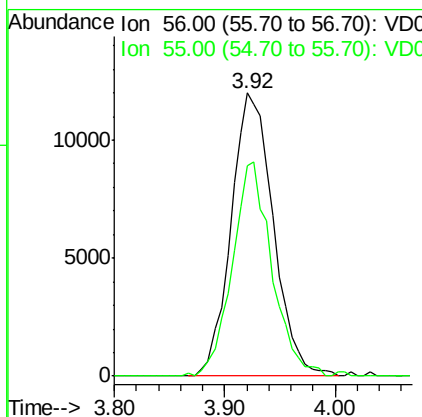
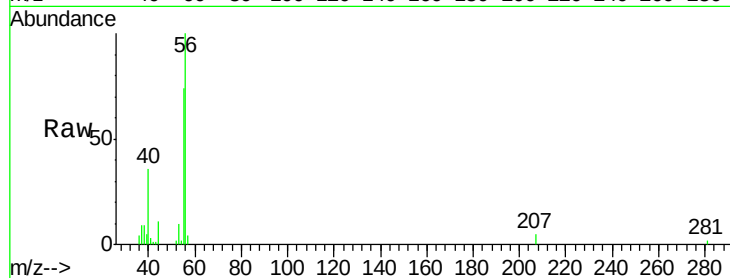
Ion Ratio Lower Upper

56 100

55 70.9 56.6 85.0

Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM



#14

Allyl chloride

Concen: 19.632 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

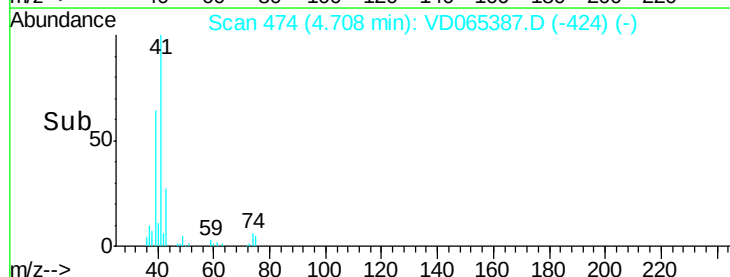
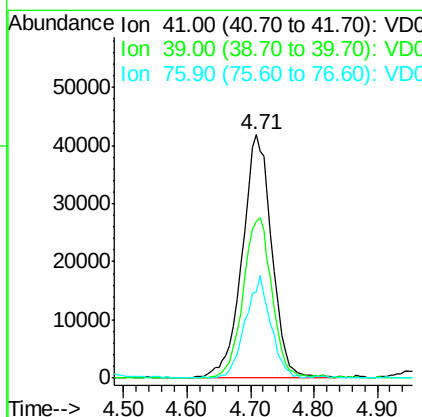
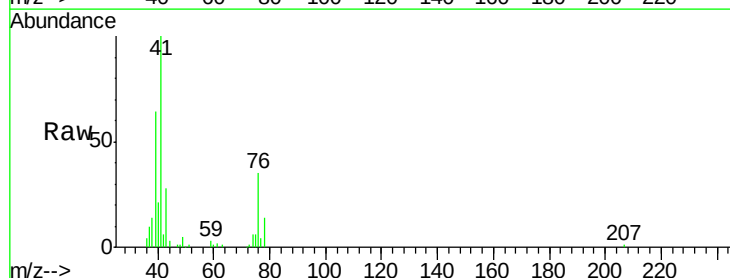
Tgt Ion: 41 Resp: 136172

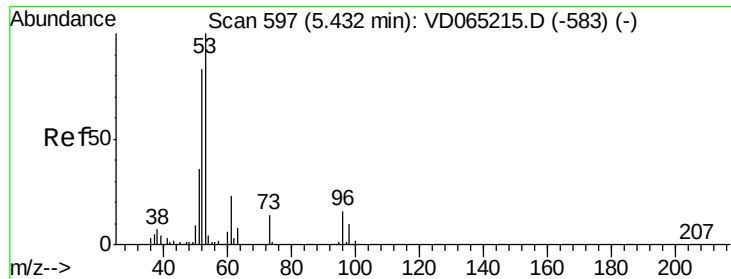
Ion Ratio Lower Upper

41 100

39 64.0 53.8 80.6

76 36.1 28.7 43.1





#15

Acrylonitrile

Concen: 106.181 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

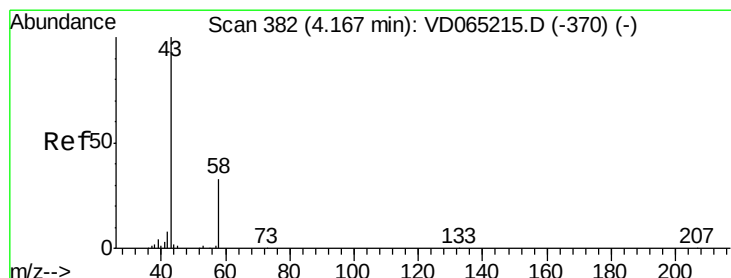
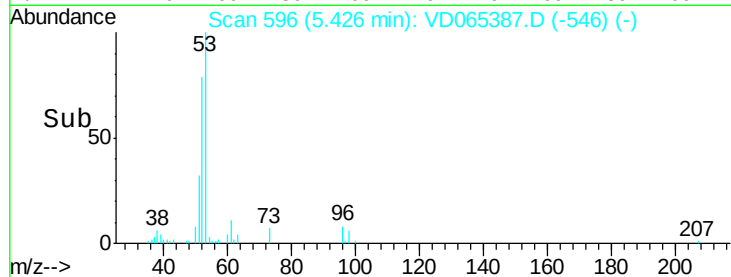
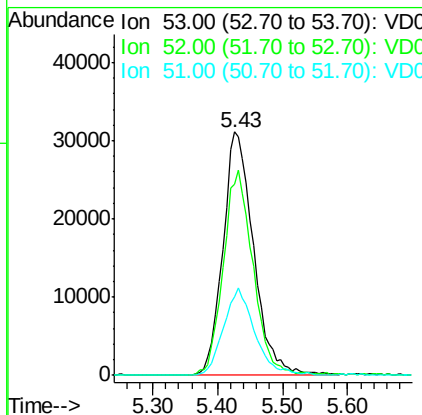
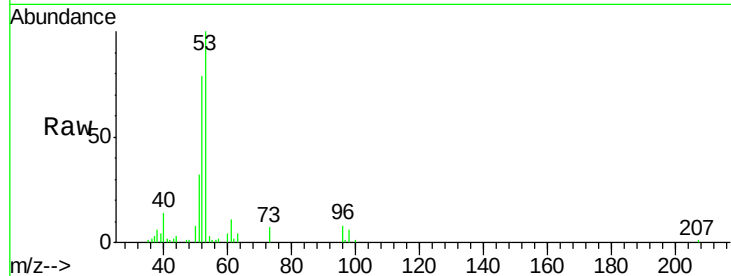
ClientSampleId :

VD0303SBS01

Tot Ion:	53	Resp:	101600
Ion Ratio	Lower	Upper	
53	100		
52	80.9	65.4	98.2
51	36.4	29.5	44.3

Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM



#16

Acetone

Concen: 88.769 ug/l

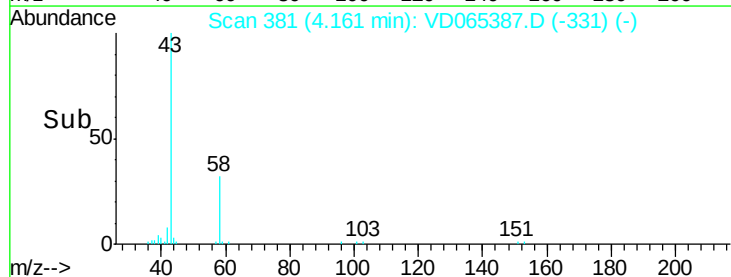
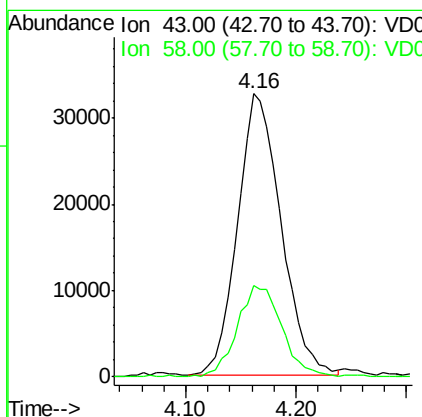
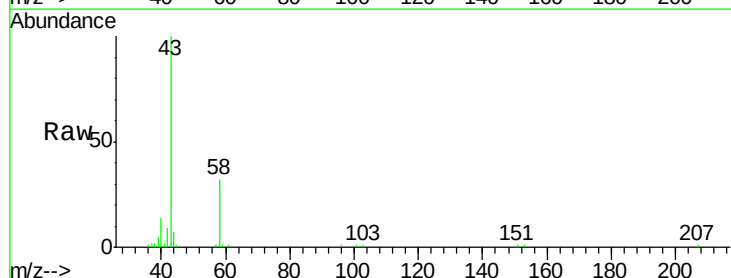
RT: 4.16 min Scan# 381

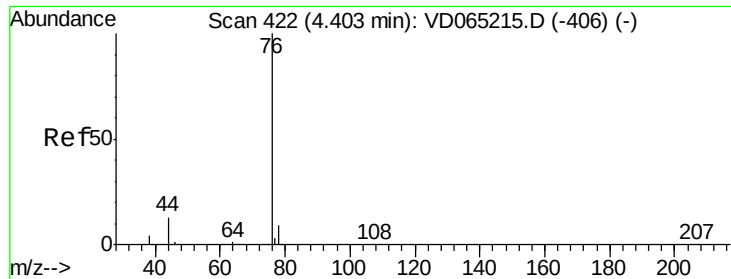
Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Tgt Ion:	43	Resp:	89930
Ion Ratio	Lower	Upper	
43	100		
58	32.3	26.2	39.2





#17

Carbon Disulfide

Concen: 18.398 ug/l

RT: 4.40 min Scan# 422

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion: 76 Resp: 263451

Ion Ratio Lower Upper

76 100

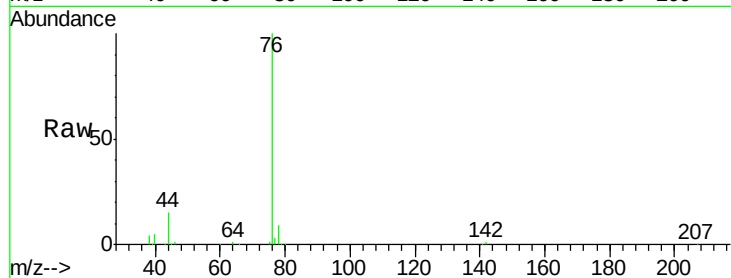
78 9.3 7.0 10.6

Manual Integrations

APPROVED

MMDadoda

3/4/2020 2:01:24 PM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.40

80000

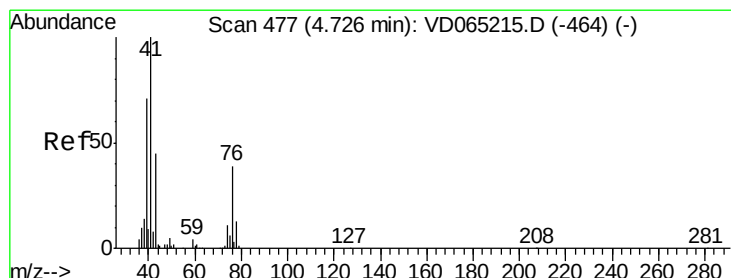
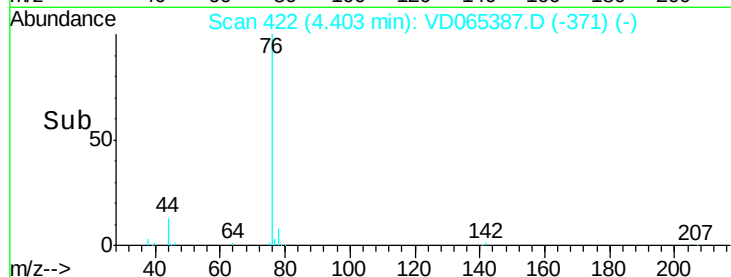
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 23.235 ug/l

RT: 4.71 min Scan# 475

Delta R.T. -0.01 min

Lab File: VD065387.D

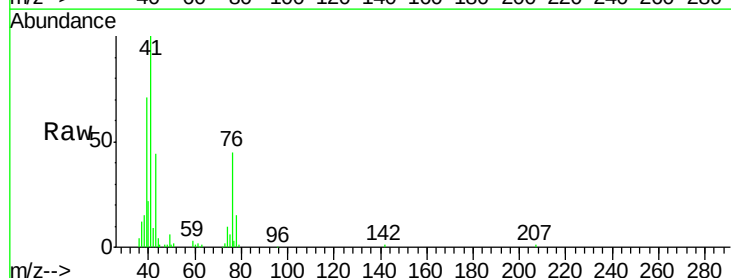
Acq: 03 Mar 2020 11:47

Tgt Ion: 43 Resp: 52940

Ion Ratio Lower Upper

43 100

74 23.9 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.71

20000

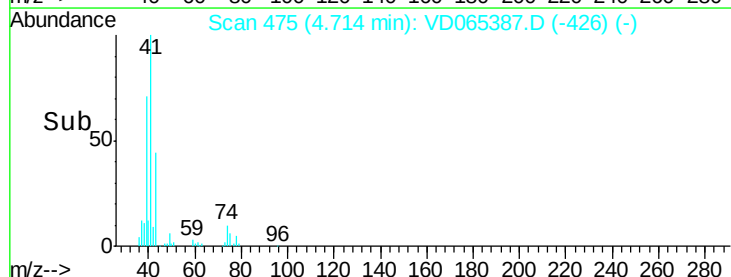
15000

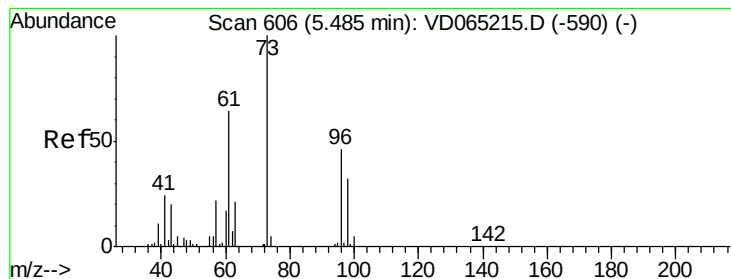
10000

5000

0

Time-->





#19

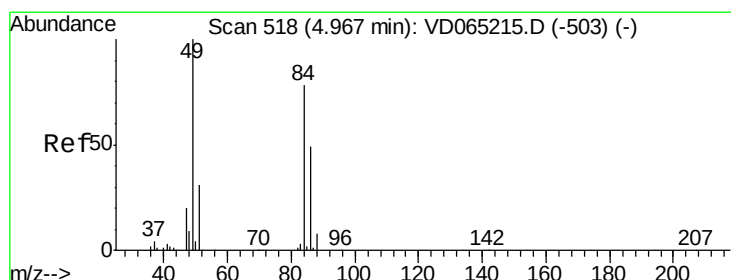
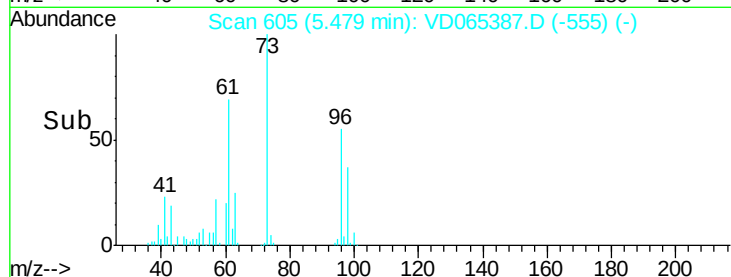
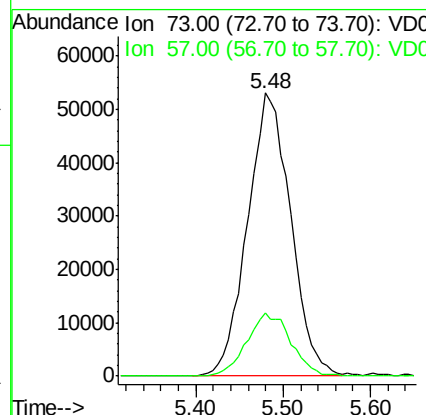
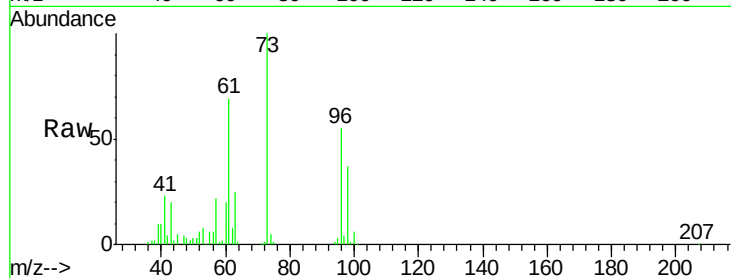
Methyl tert-butyl Ether
 Concen: 20.097 ug/l
 RT: 5.48 min Scan# 605
 Delta R.T. -0.01 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBS01

Tot Ion: 73 Resp: 179003
 Ion Ratio Lower Upper
 73 100
 57 22.2 17.3 25.9

Manual Integrations
 APPROVED

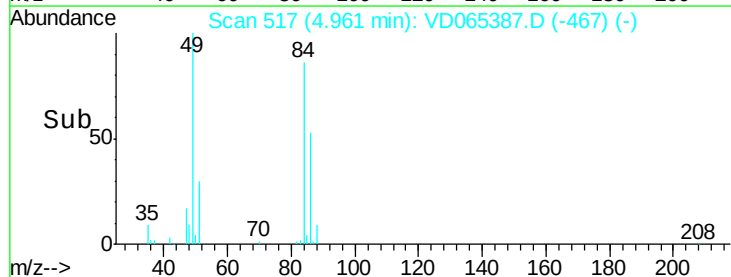
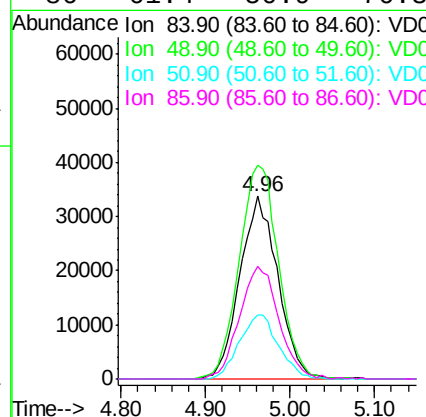
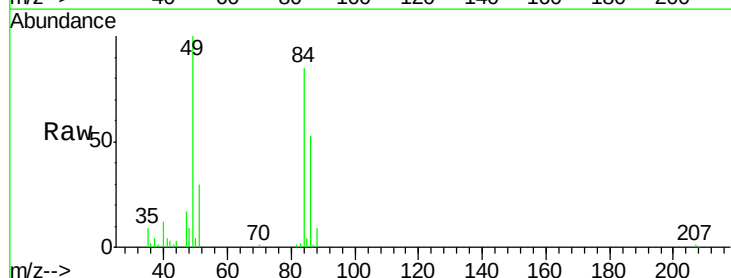
MMDadoda
 3/4/2020 2:01:24 PM

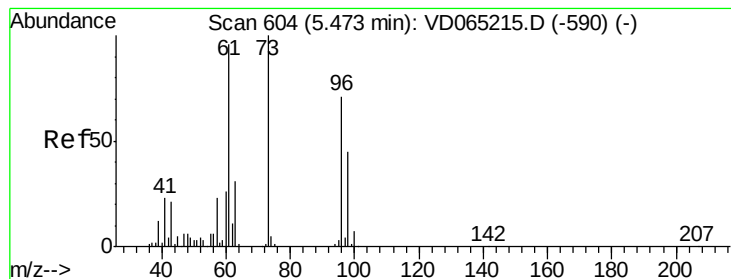


#20

Methylene Chloride
 Concen: 20.660 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. -0.01 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion: 84 Resp: 105376
 Ion Ratio Lower Upper
 84 100
 49 117.0 103.1 154.7
 51 35.4 31.7 47.5
 86 61.4 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 20.291 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

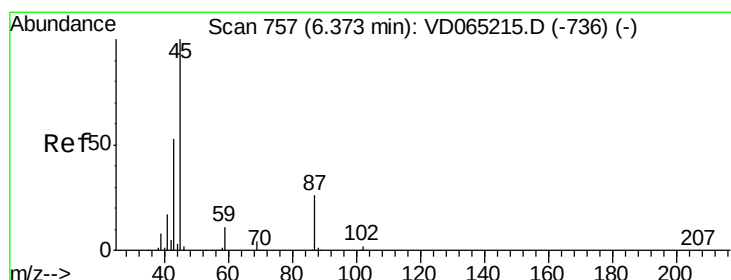
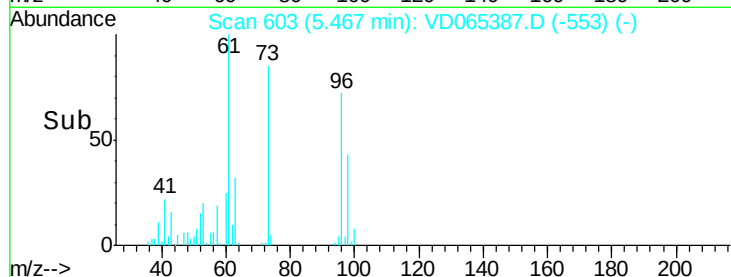
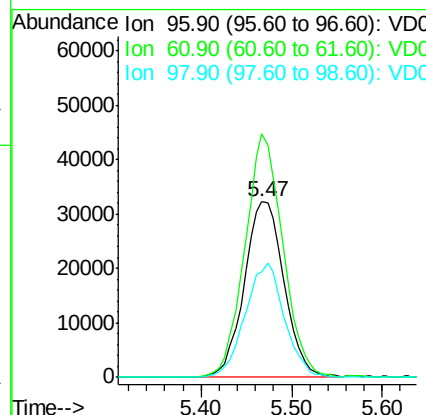
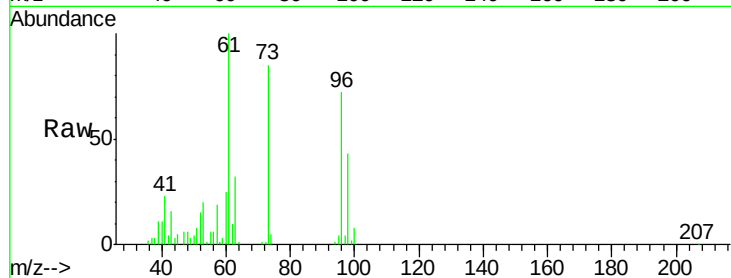
ClientSampleId :

VD0303SBSD01

Tot Ion:	96	Resp:	98524
Ion	Ratio	Lower	Upper
96	100		
61	138.6	108.3	162.5
98	60.2	50.7	76.1

Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM



#22

Diisopropyl ether

Concen: 20.440 ug/l

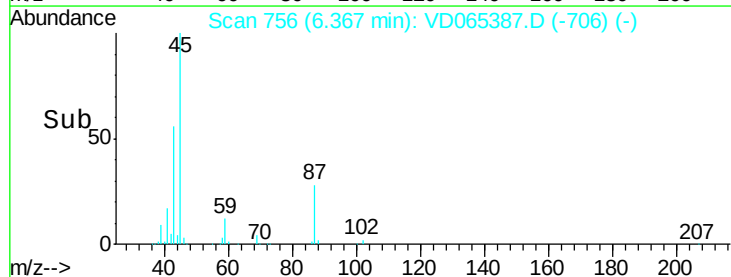
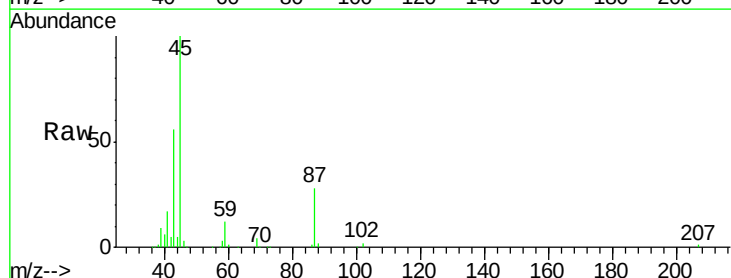
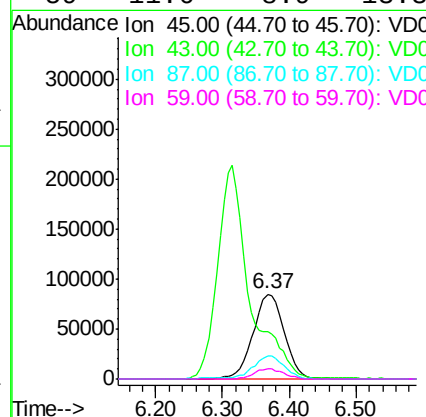
RT: 6.37 min Scan# 756

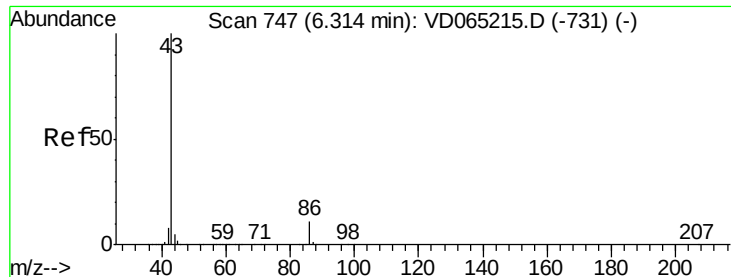
Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Tgt Ion:	45	Resp:	273309
Ion	Ratio	Lower	Upper
45	100		
43	55.0	42.6	64.0
87	27.8	21.2	31.8
59	11.6	8.9	13.3





#23

Vinyl Acetate

Concen: 97.351 ug/l

RT: 6.31 min Scan# 747

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion: 43 Resp: 717620

Ion Ratio Lower Upper

43 100

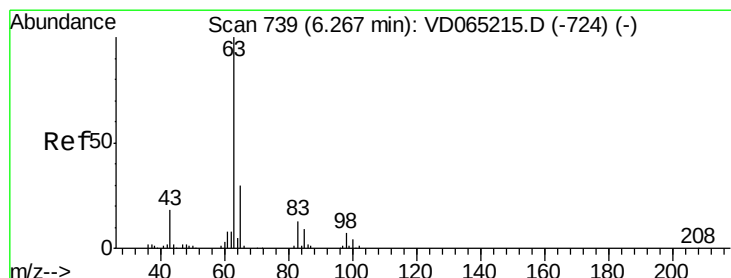
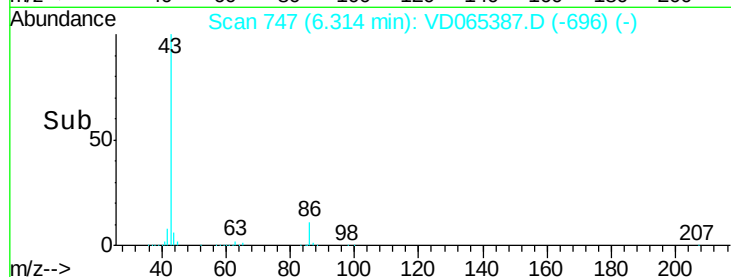
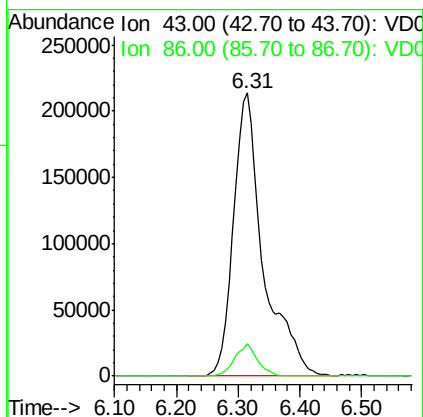
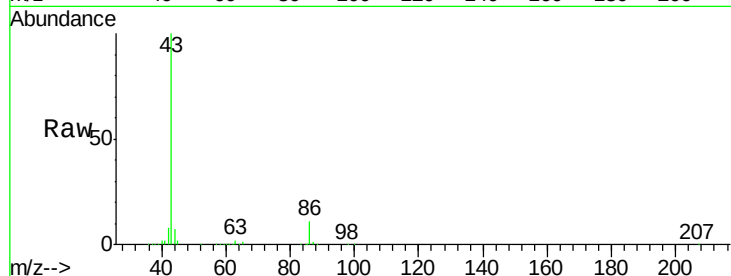
86 11.3 8.6 12.8

Manual Integrations

APPROVED

MMDadoda

3/4/2020 2:01:24 PM



#24

1,1-Dichloroethane

Concen: 20.277 ug/l

RT: 6.27 min Scan# 739

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

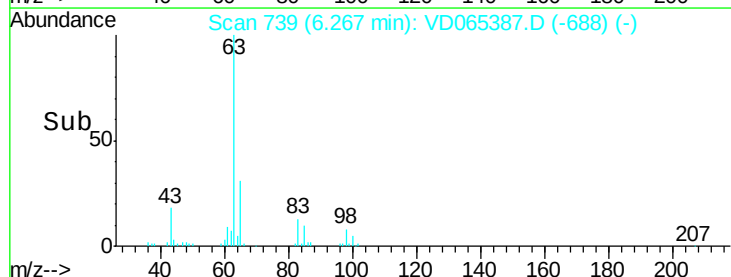
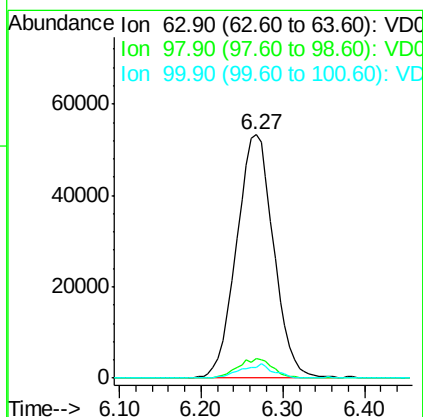
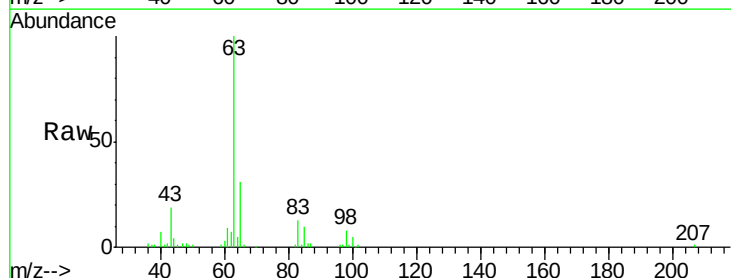
Tgt Ion: 63 Resp: 168171

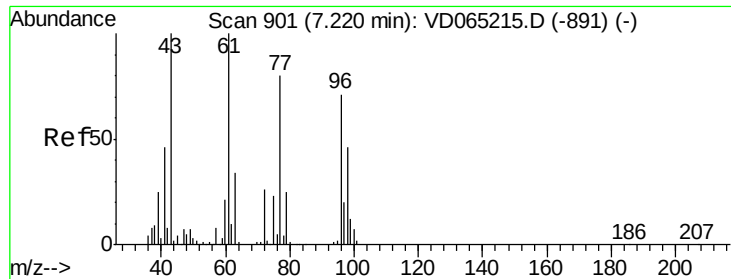
Ion Ratio Lower Upper

63 100

98 8.2 3.4 10.1

100 4.6 2.3 6.8





#25

2-Butanone

Concen: 93.999 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion: 43 Resp: 120485

Ion Ratio Lower Upper

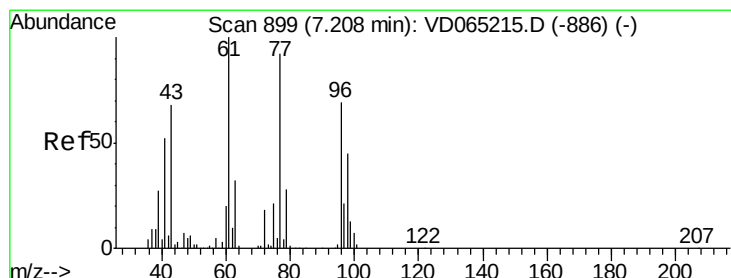
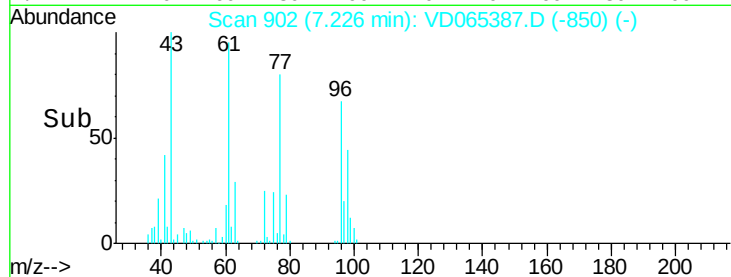
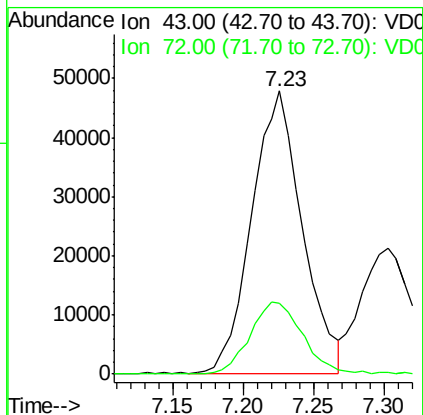
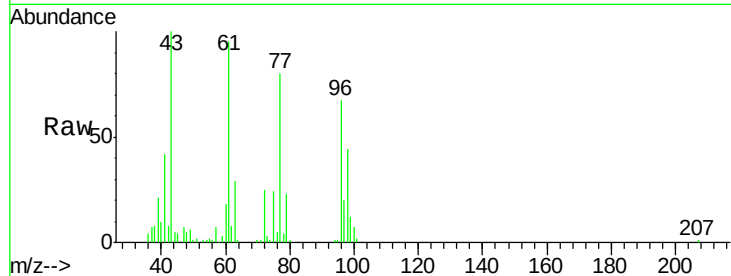
43 100

72 25.0 20.9 31.3

Manual Integrations
APPROVED

MMDadoda

3/4/2020 2:01:24 PM



#26

2,2-Dichloropropane

Concen: 20.527 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.00 min

Lab File: VD065387.D

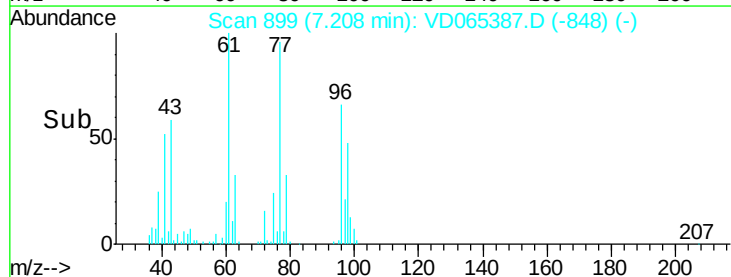
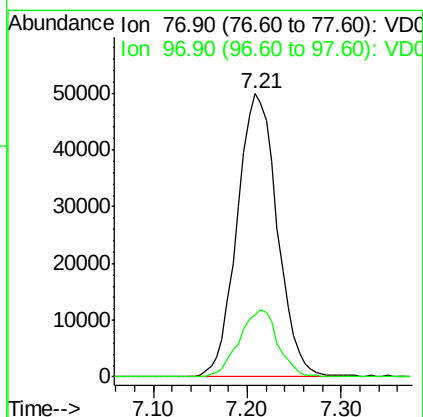
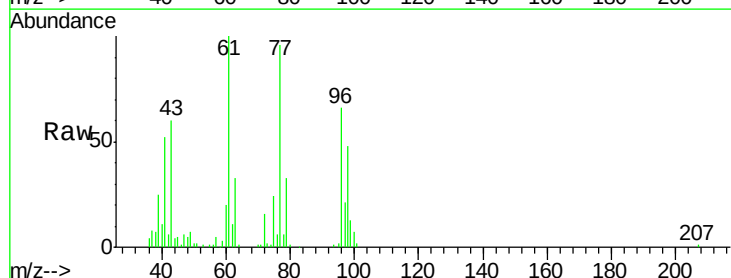
Acq: 03 Mar 2020 11:47

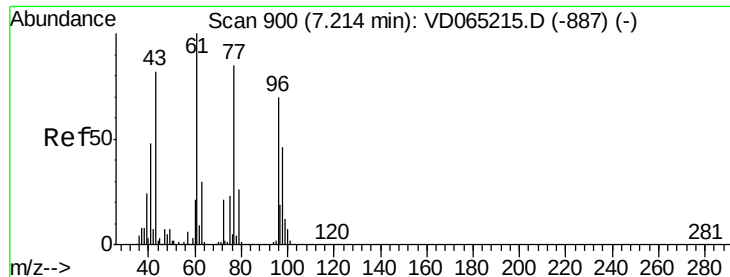
Tgt Ion: 77 Resp: 147711

Ion Ratio Lower Upper

77 100

97 22.8 11.7 35.1





#27

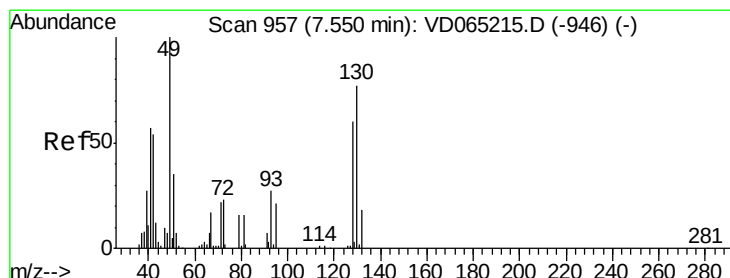
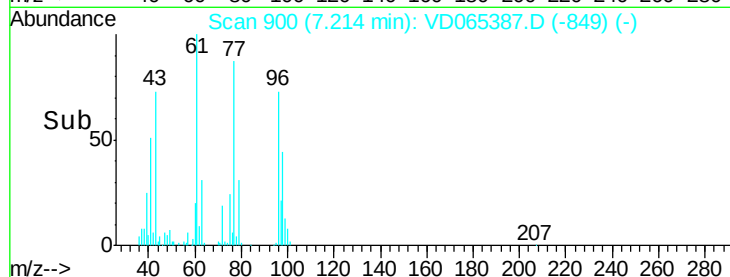
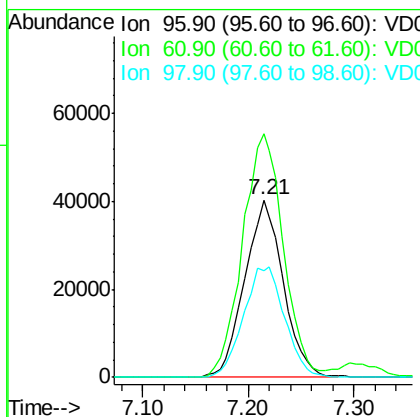
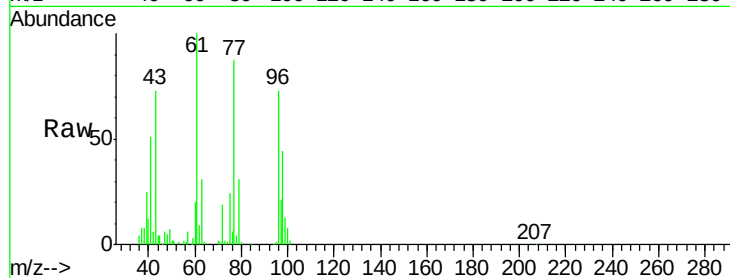
cis-1,2-Dichloroethene
Concen: 19.886 ug/l
RT: 7.21 min Scan# 900
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	145.2	0.0	286.0	
98	66.5	0.0	127.8	

Manual Integrations
APPROVED

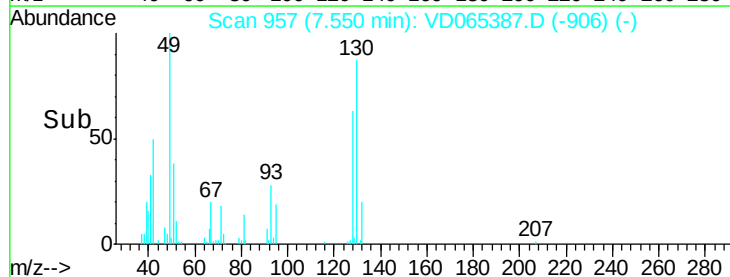
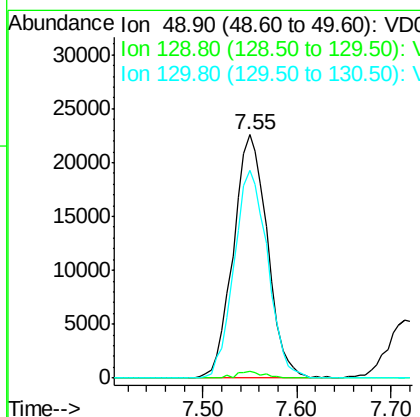
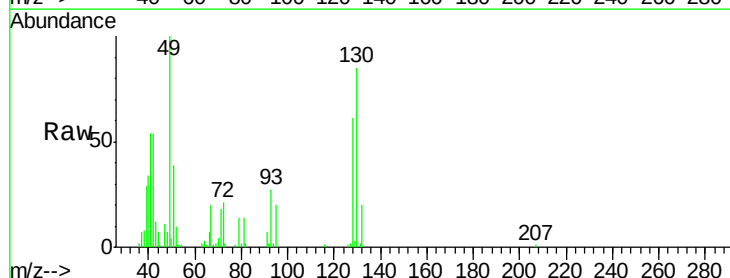
MMDadoda
3/4/2020 2:01:24 PM

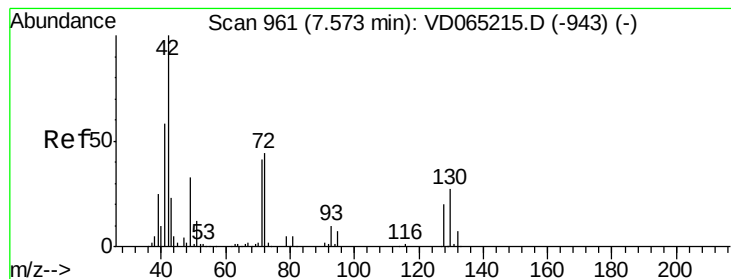


#28

Bromochloromethane
Concen: 18.402 ug/l
RT: 7.55 min Scan# 957
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.2	0.0	4.6	
130	84.5	64.7	97.1	





#29

Tetrahydrofuran

Concen: 104.001 ug/l

RT: 7.57 min Scan# 960

Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

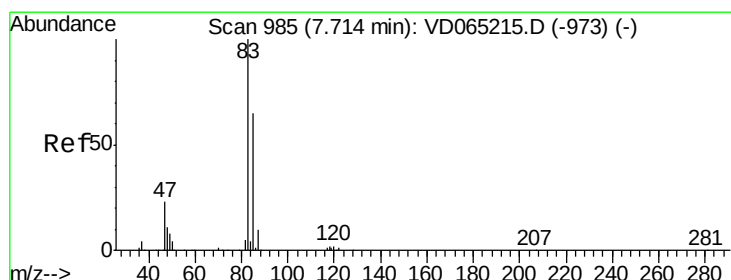
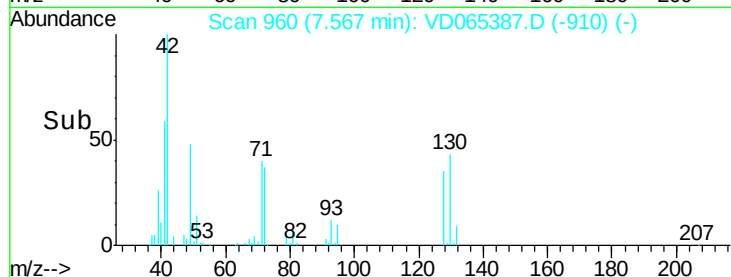
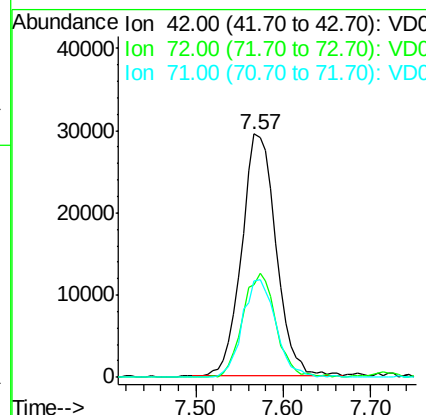
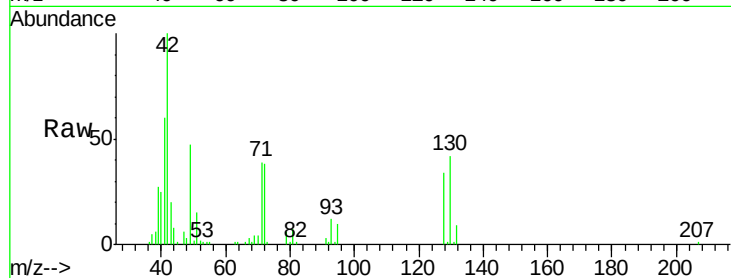
ClientSampleId :

VD0303SBS01

Tot Ion:	42	Resp:	78107
Ion	Ratio	Lower	Upper
42	100		
72	41.8	33.7	50.5
71	39.2	31.4	47.2

Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM



#30

Chloroform

Concen: 20.600 ug/l

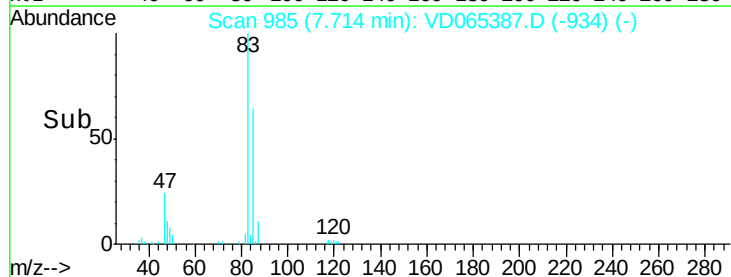
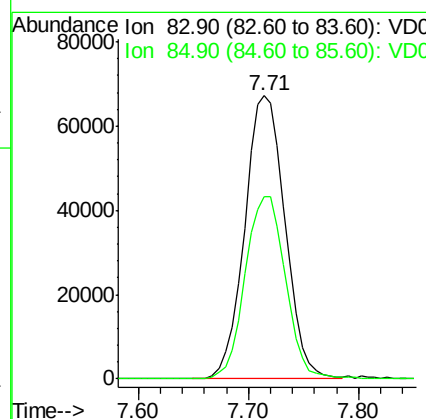
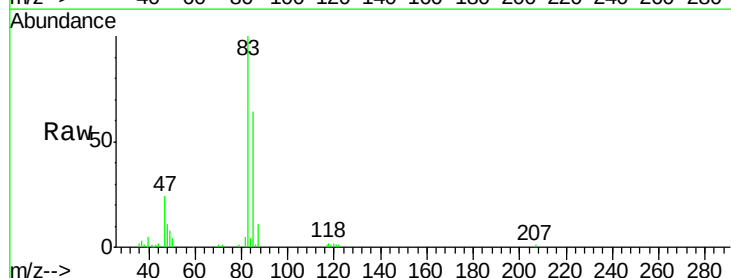
RT: 7.71 min Scan# 985

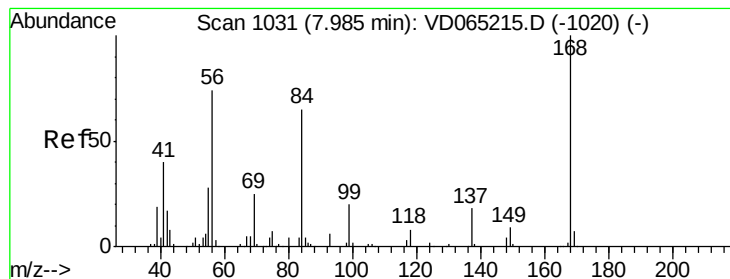
Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Tgt Ion:	83	Resp:	172129
Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.3	78.5





#31

Cyclohexane

Concen: 19.442 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion: 56 Resp: 158428

Ion Ratio Lower Upper

56 100

69 36.9 27.4 41.0

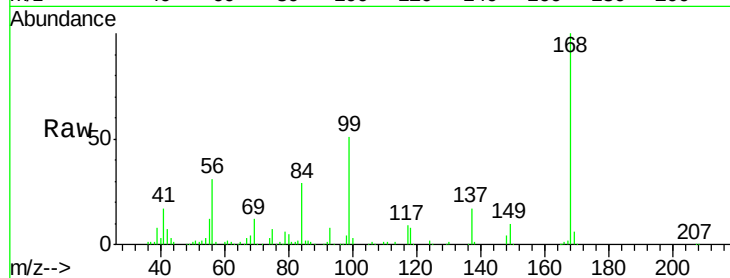
84 89.6 71.1 106.7

Manual Integrations

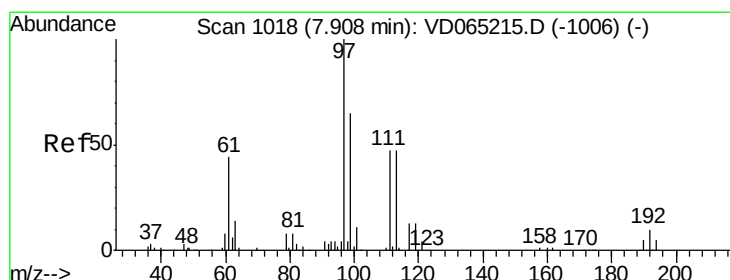
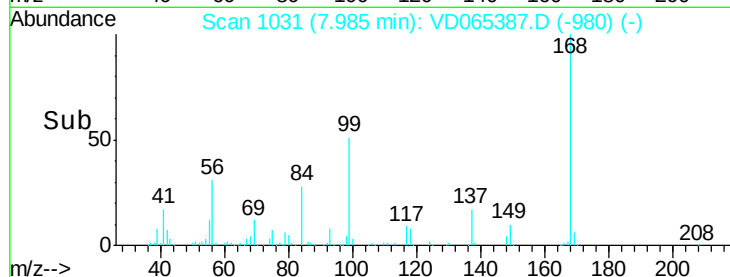
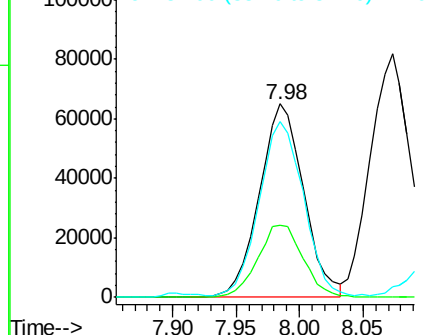
APPROVED

MMDadoda

3/4/2020 2:01:24 PM



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC



#32

1,1,1-Trichloroethane

Concen: 20.936 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

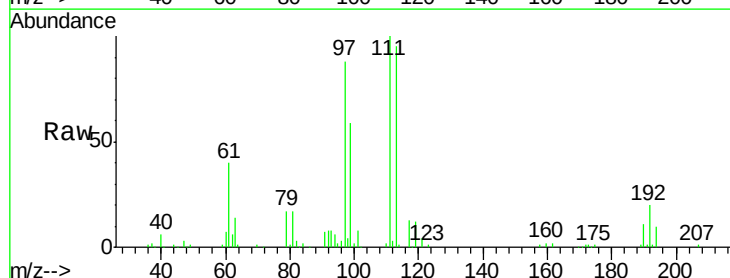
Tgt Ion: 97 Resp: 156514

Ion Ratio Lower Upper

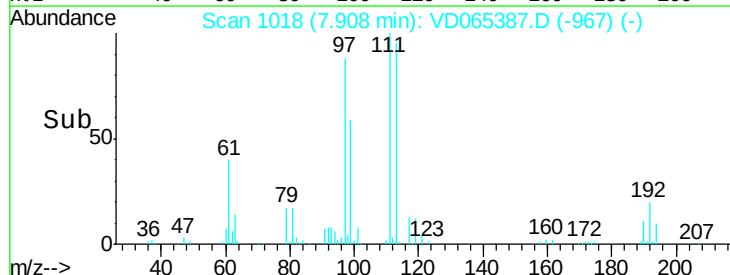
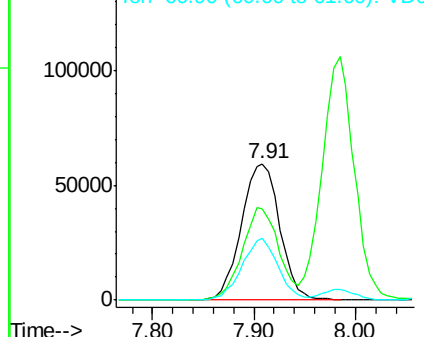
97 100

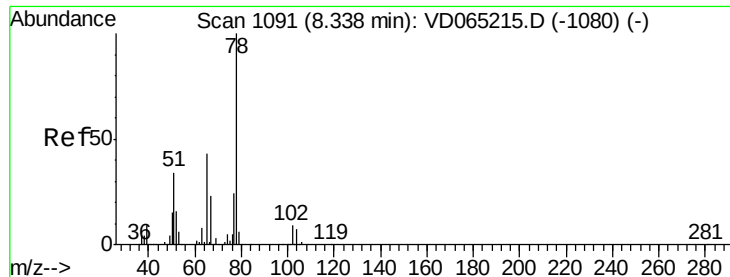
99 64.6 51.4 77.2

61 42.5 34.8 52.2



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 98.90 (98.60 to 99.60): VDC
Ion 60.90 (60.60 to 61.60): VDC





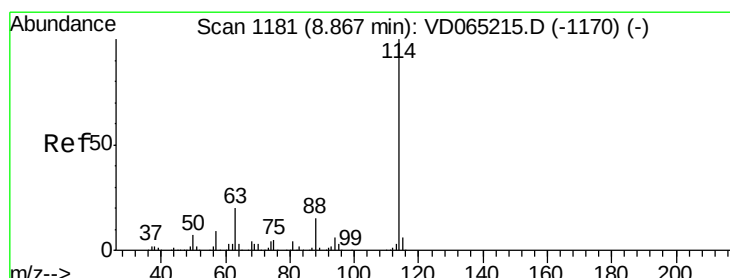
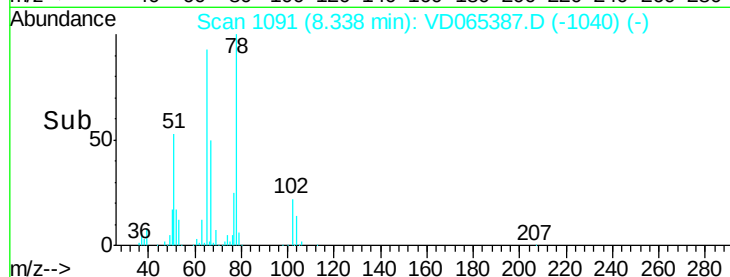
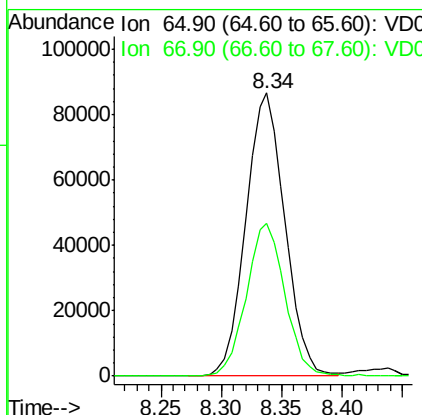
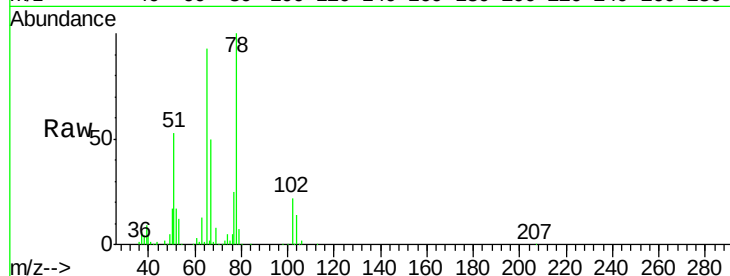
#33
 1,2-Dichloroethane-d4
 Concen: 46.917 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBSD01

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.8

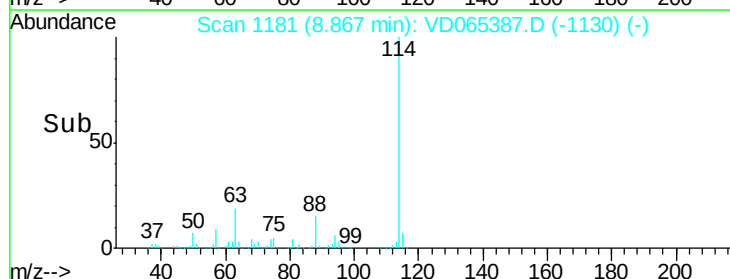
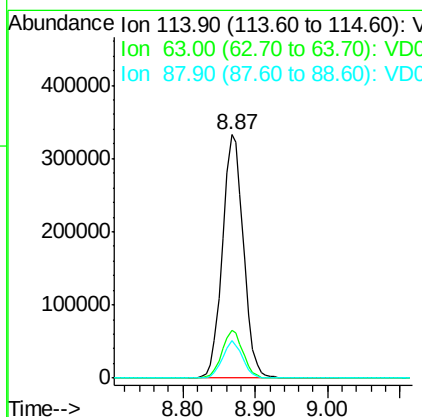
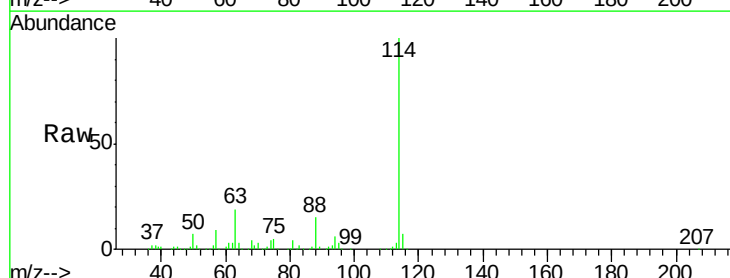
Manual Integrations
 APPROVED

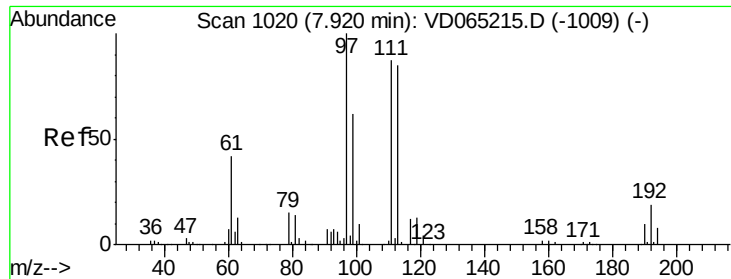
MMDadoda
 3/4/2020 2:01:24 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	39.4
88	15.4	0.0	30.4





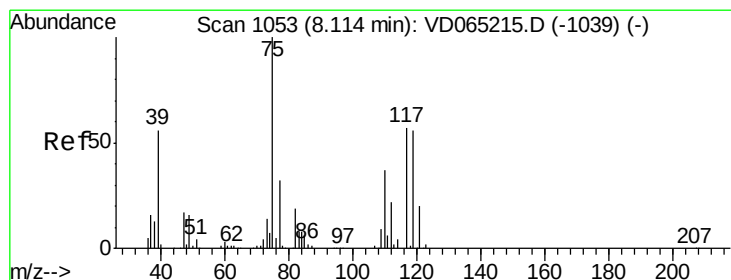
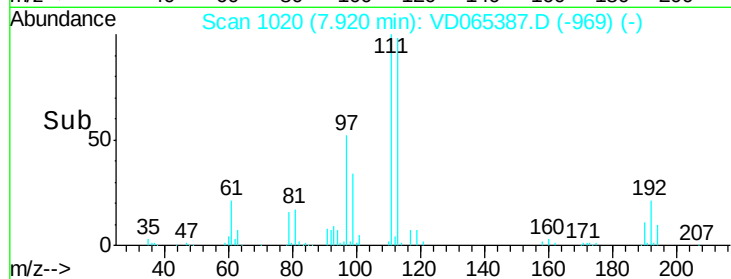
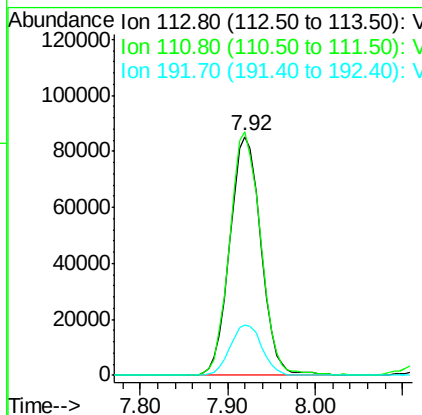
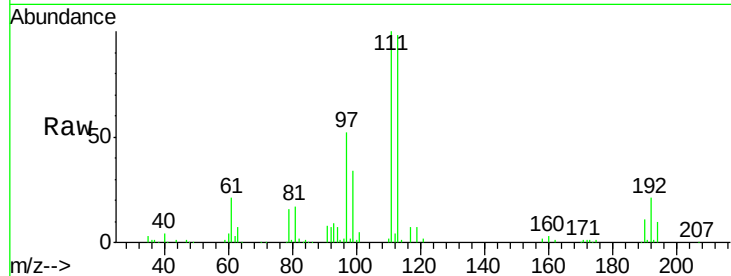
#35
Dibromofluoromethane
Concen: 50.588 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	206277		
111	101.7	82.9	124.3	
192	21.6	17.3	25.9	

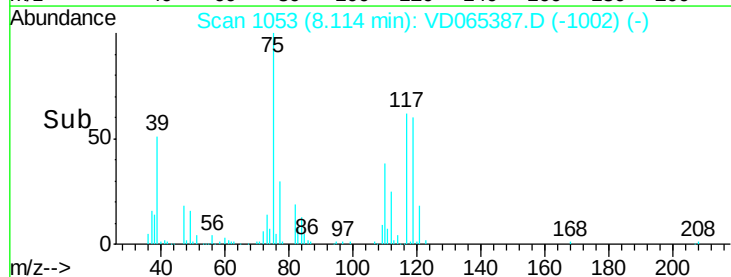
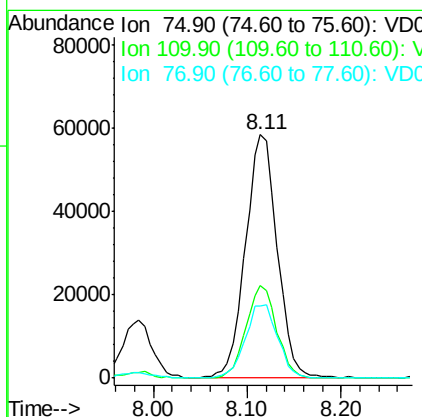
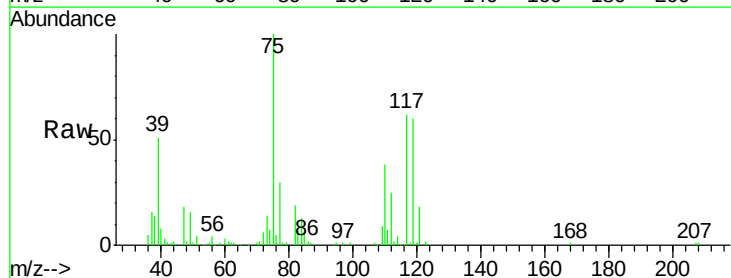
Manual Integrations
APPROVED

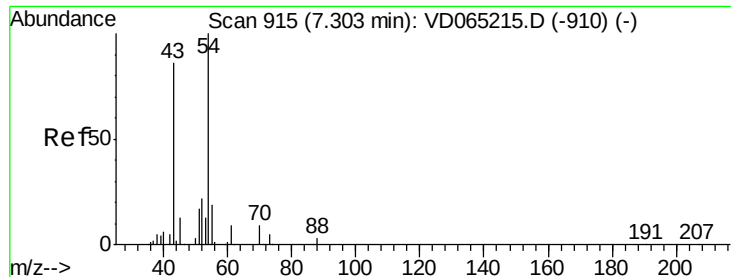
MMDadoda
3/4/2020 2:01:24 PM



#36
1,1-Dichloropropene
Concen: 21.059 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	137032		
110	36.6	17.9	53.7	
77	30.8	25.1	37.7	





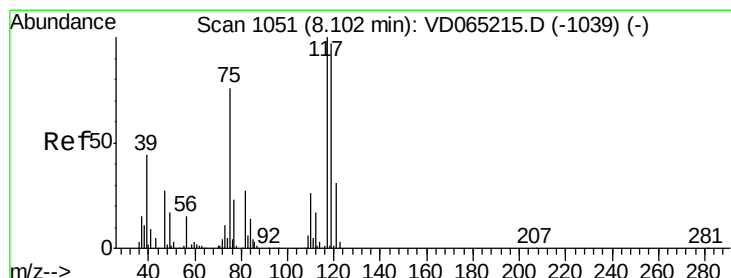
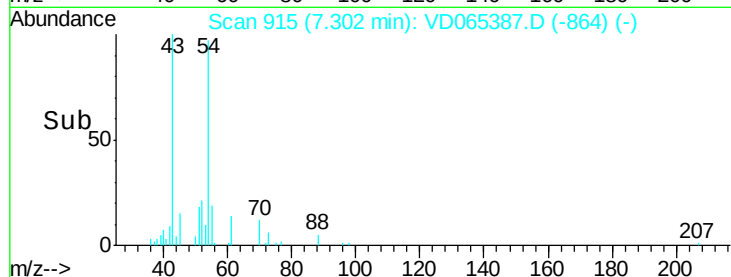
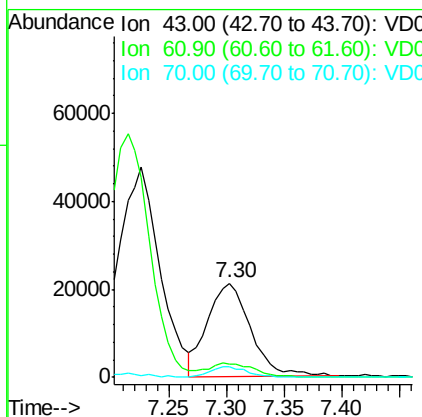
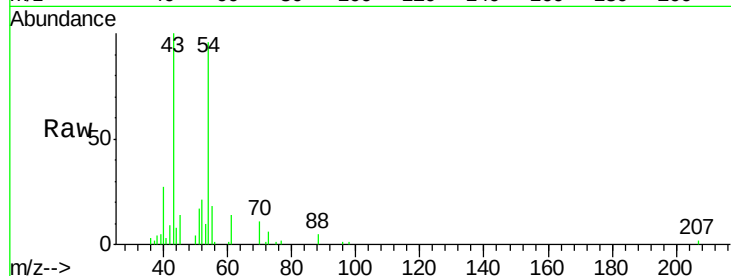
#37
Ethyl Acetate
Concen: 20.167 ug/l
RT: 7.30 min Scan# 915
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.2	16.8
70	10.1	8.2	12.2

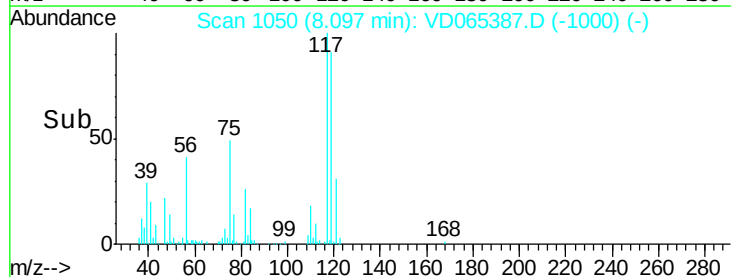
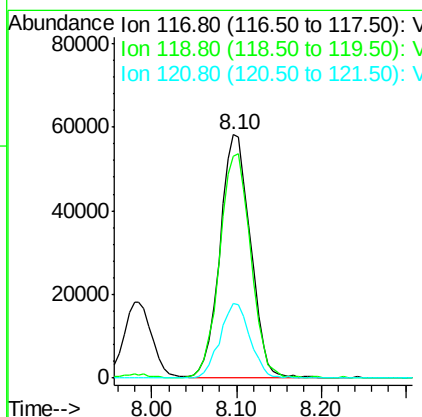
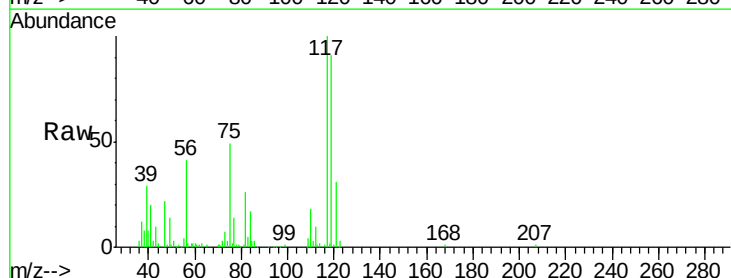
Manual Integrations
APPROVED

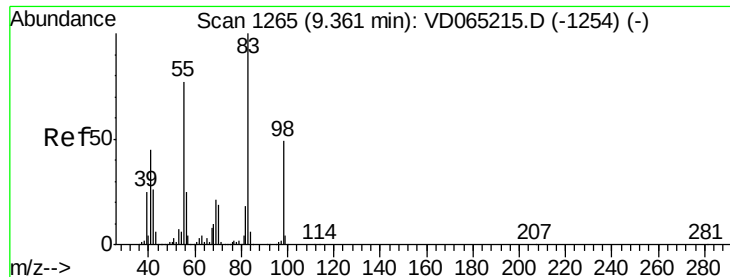
MMDadoda
3/4/2020 2:01:24 PM



#38
Carbon Tetrachloride
Concen: 21.979 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.1	77.6	116.4
121	30.7	24.8	37.2





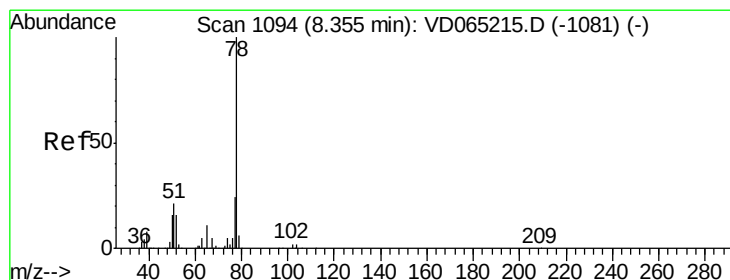
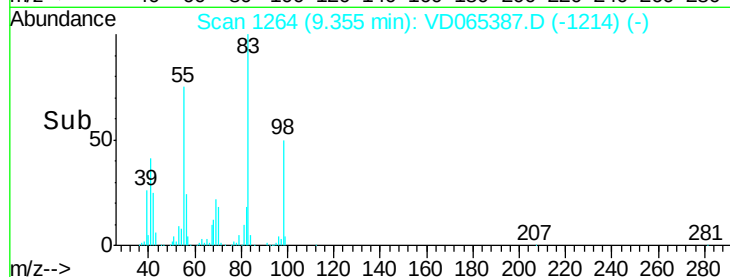
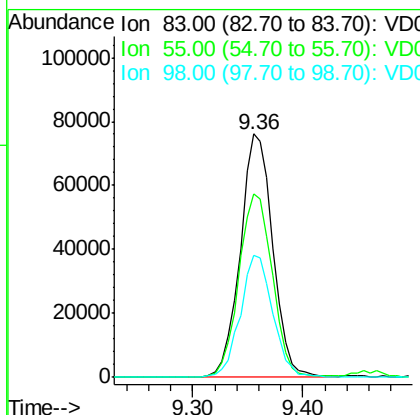
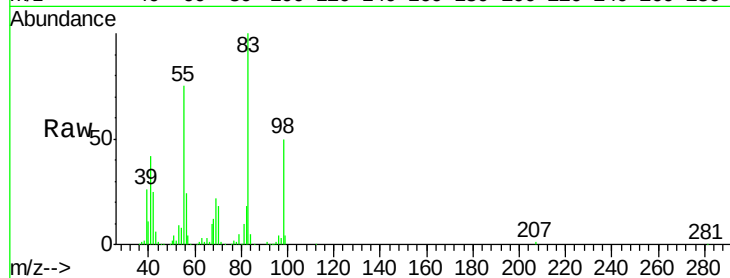
#39
Methylvlcyclohexane
Concen: 20.576 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.2	61.8	92.6
98	50.2	39.4	59.0

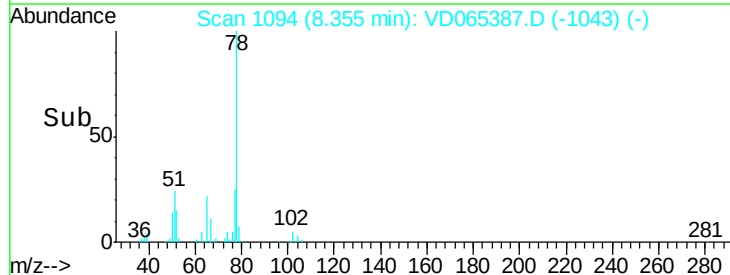
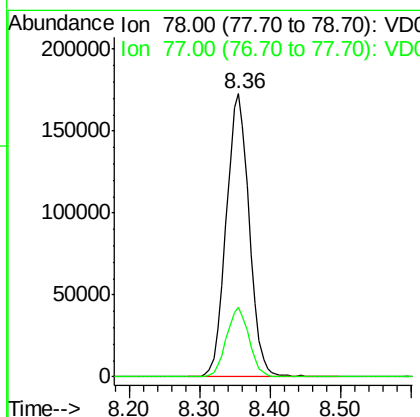
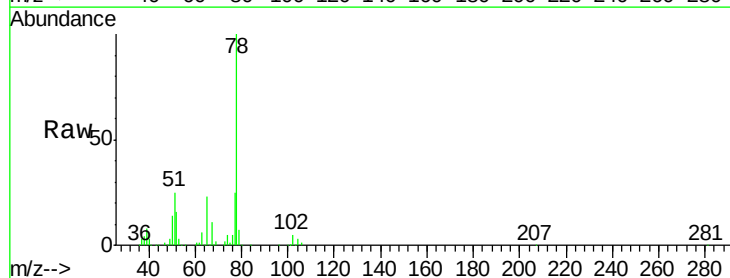
Manual Integrations
APPROVED

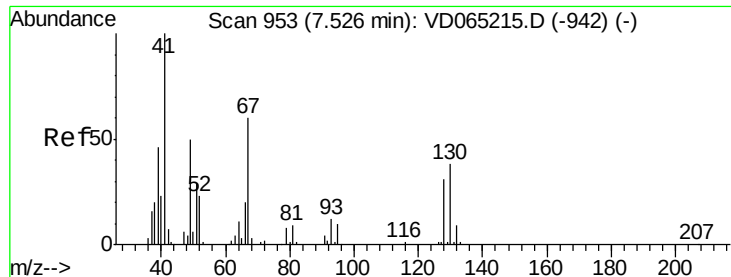
MMDadoda
3/4/2020 2:01:24 PM



#40
Benzene
Concen: 21.285 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.0	28.6





#41

Methacrylonitrile

Concen: 21.925 ug/l m

RT: 7.54 min Scan# 955

Delta R.T. 0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion: 41 Resp: 34436

Ion Ratio Lower Upper

41 100

39 0.0 48.1 72.1#

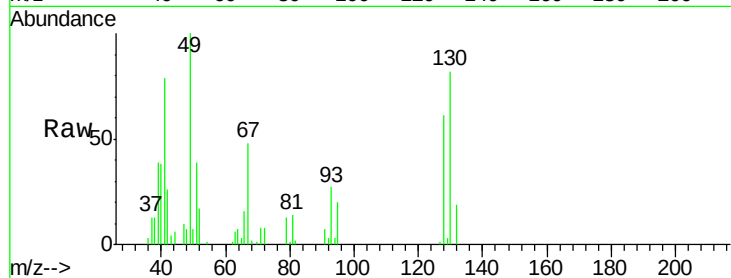
67 0.0 58.9 88.3#

52 0.0 24.2 36.2#

Manual Integrations
APPROVED

MMDadoda

3/4/2020 2:01:24 PM

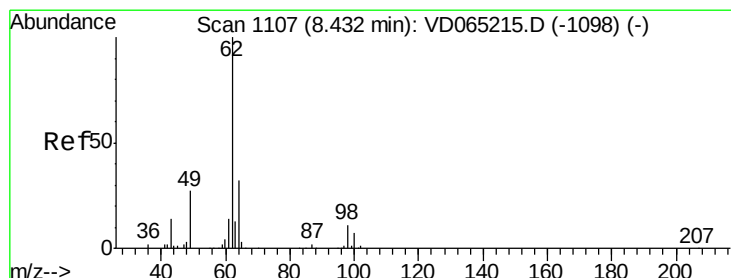
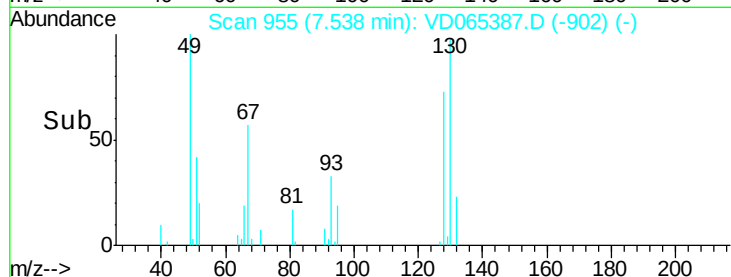
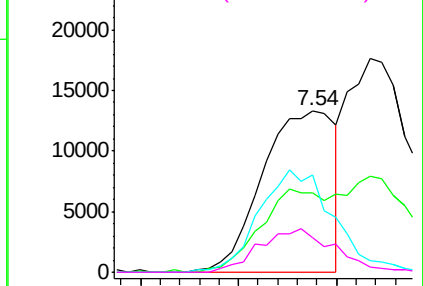


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 21.236 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VD065387.D

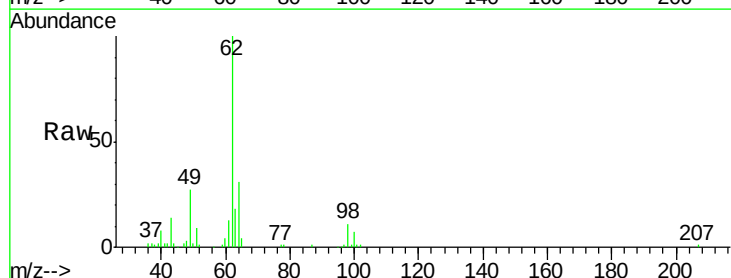
Acq: 03 Mar 2020 11:47

Tgt Ion: 62 Resp: 107223

Ion Ratio Lower Upper

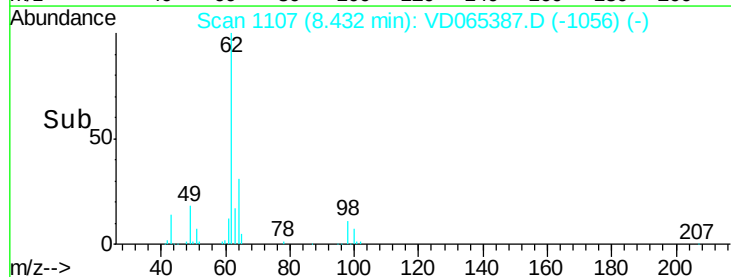
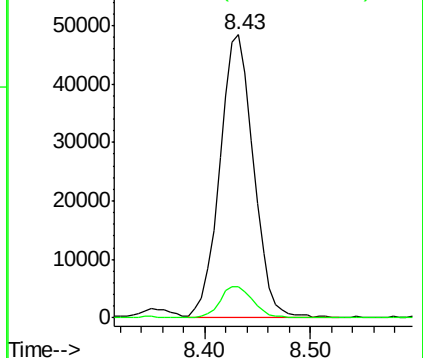
62 100

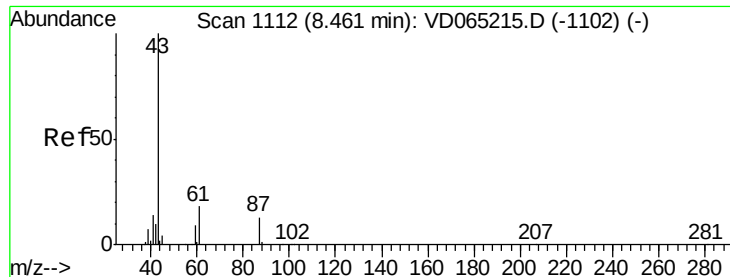
98 10.9 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 20.653 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

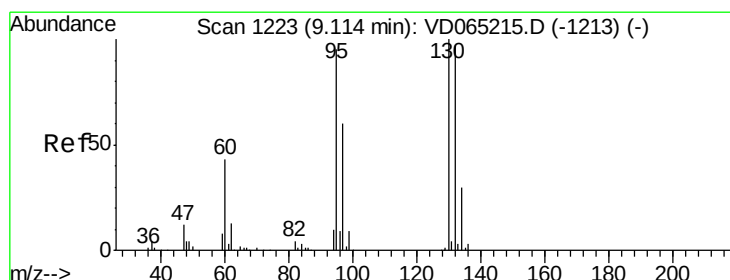
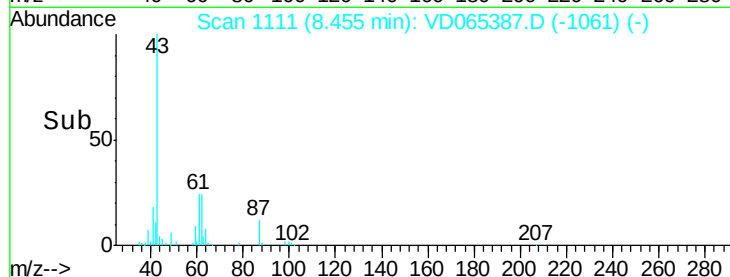
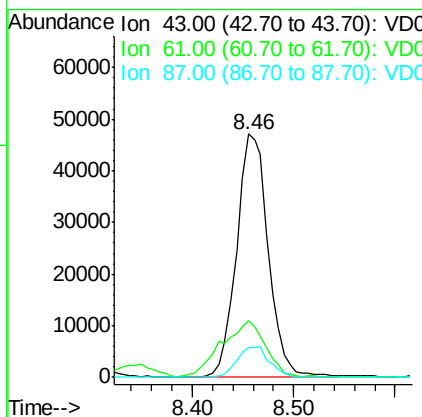
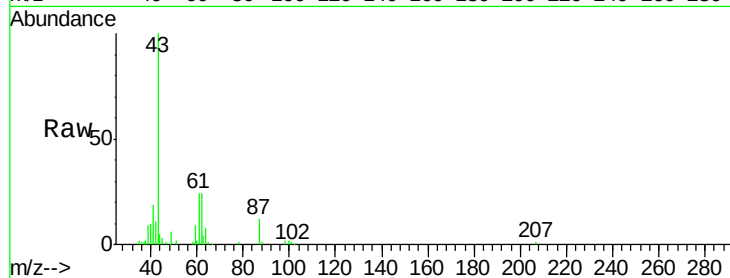
ClientSampleId :

VD0303SBS01

Tot Ion:	43	Resp:	102162
Ion	Ratio	Lower	Upper
43	100		
61	32.1	24.6	36.8
87	13.0	10.6	16.0

Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM



#44

Trichloroethene

Concen: 21.705 ug/l

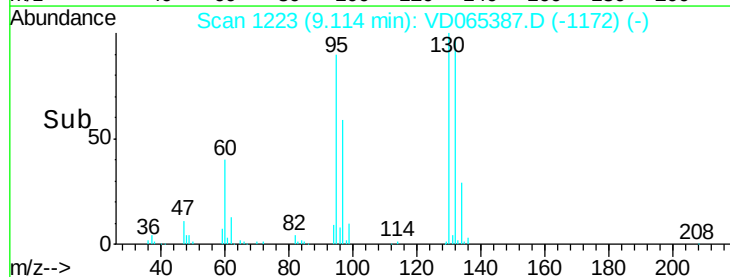
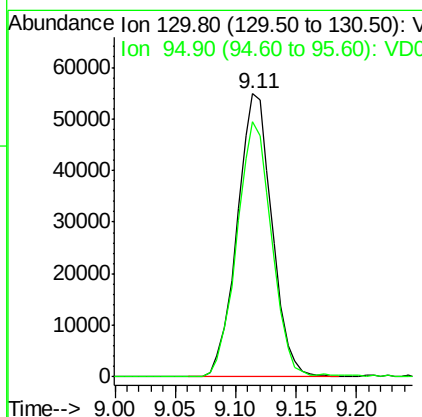
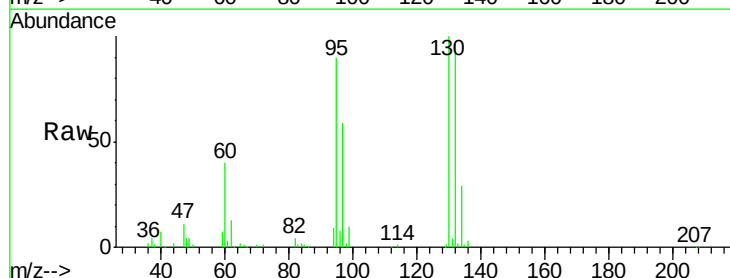
RT: 9.11 min Scan# 1223

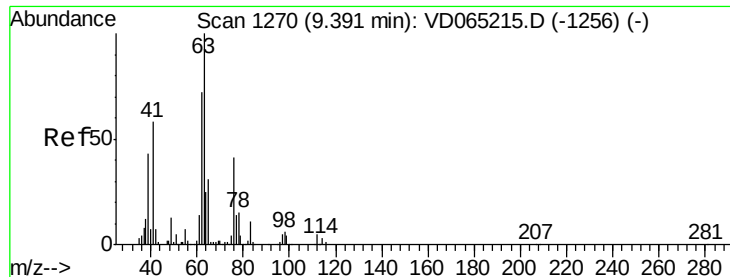
Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Tgt Ion:	130	Resp:	110500
Ion	Ratio	Lower	Upper
130	100		
95	90.3	0.0	190.6





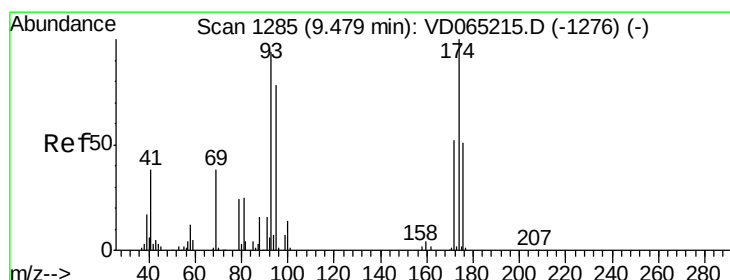
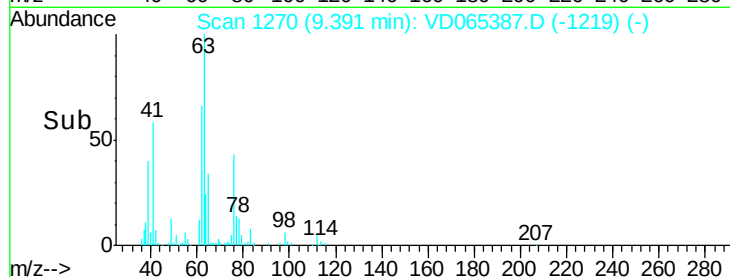
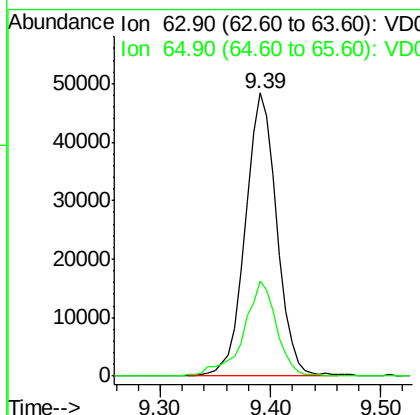
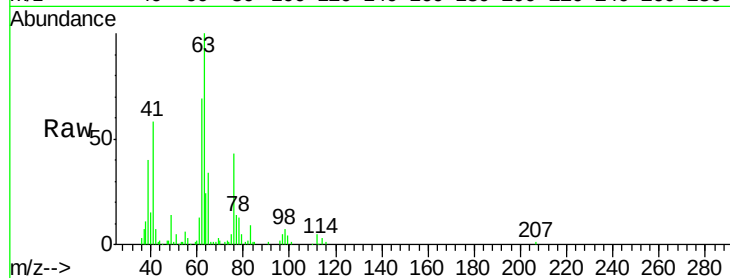
#45
 1,2-Dichloropropane
 Concen: 21.212 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBSD01

Tot Ion	63	Resp	96876
Ion Ratio	Lower	Upper	
63	100		
65	33.8	24.9	37.3

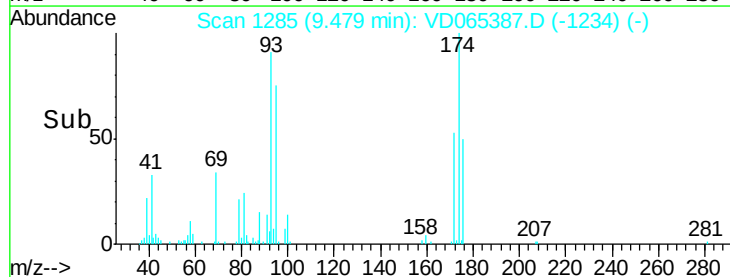
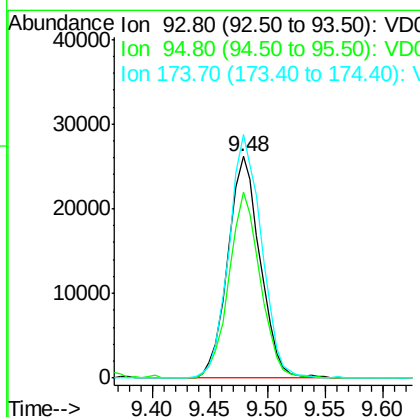
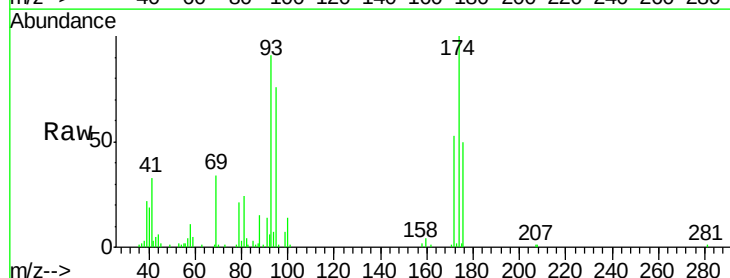
Manual Integrations
 APPROVED

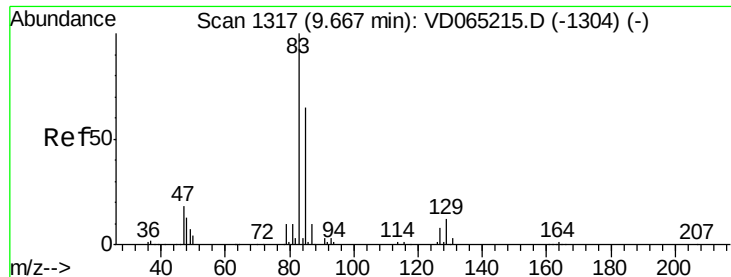
MMDadoda
 3/4/2020 2:01:24 PM



#46
 Dibromomethane
 Concen: 21.655 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	93	Resp	50884
Ion Ratio	Lower	Upper	
93	100		
95	81.3	65.8	98.6
174	110.6	86.8	130.2





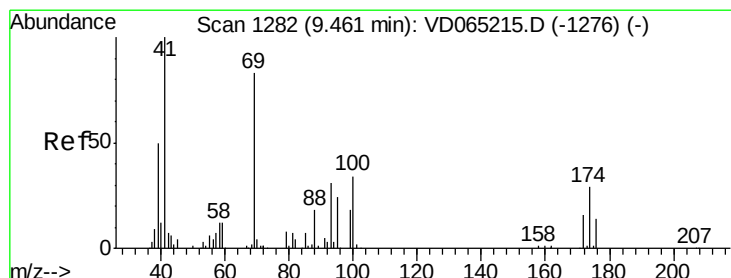
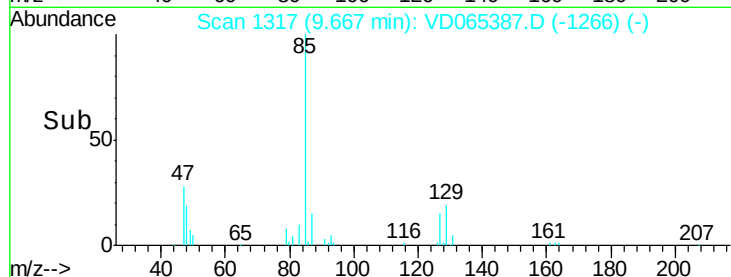
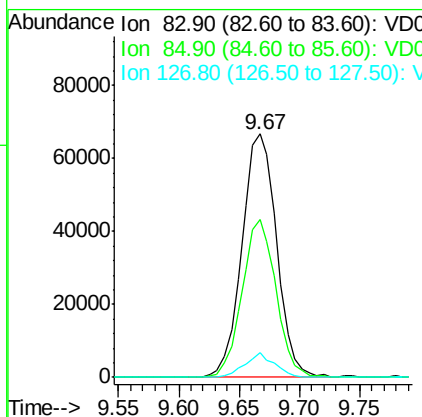
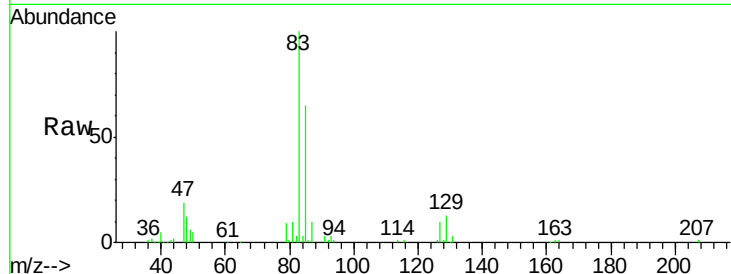
#47
Bromodichloromethane
Concen: 21.666 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBSD01

Tot Ion	83	Resp	134168
Ion Ratio	100	Lower	Upper
83	100		
85	64.8	52.0	78.0
127	10.0	6.7	10.1

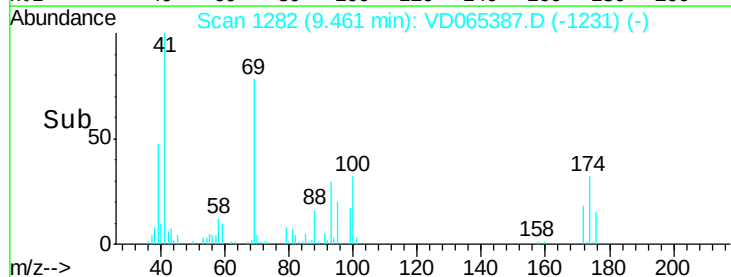
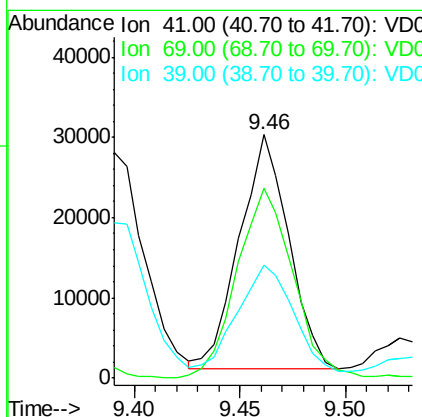
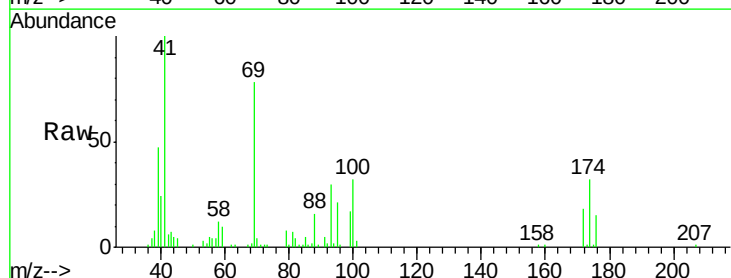
Manual Integrations
APPROVED

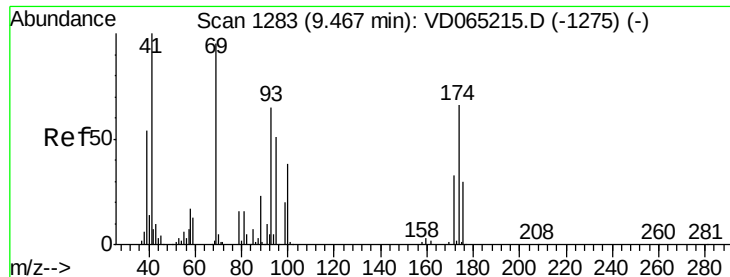
MMDadoda
3/4/2020 2:01:24 PM



#48
Methyl methacrylate
Concen: 20.726 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	41	Resp	47389
Ion Ratio	100	Lower	Upper
41	100		
69	92.7	68.2	102.2
39	58.7	42.0	63.0





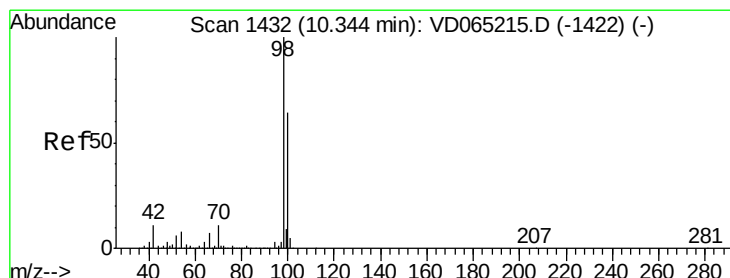
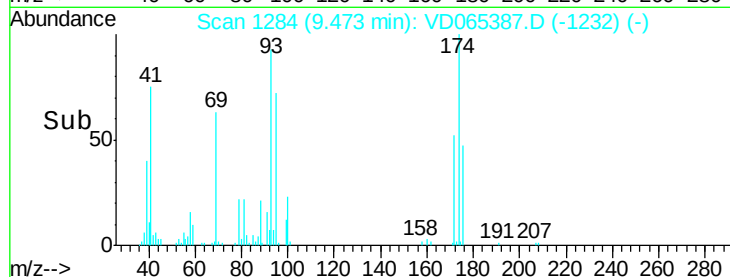
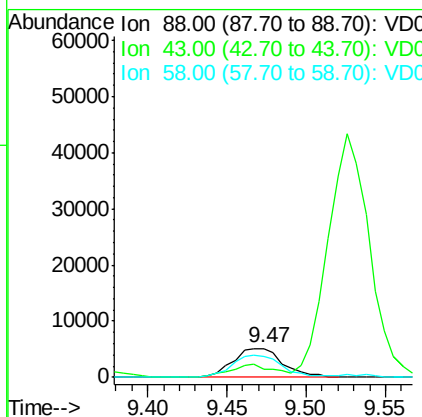
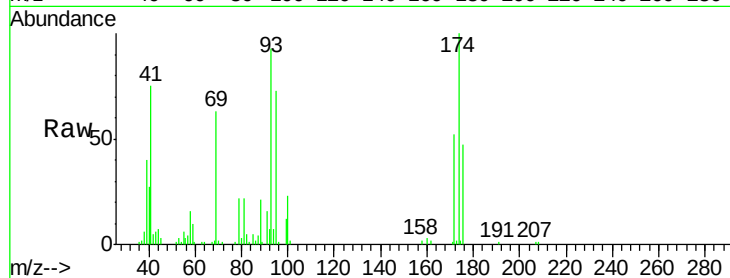
#49
1,4-Dioxane
Concen: 402.982 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	41.9	28.5	42.7
58	77.8	58.6	87.8

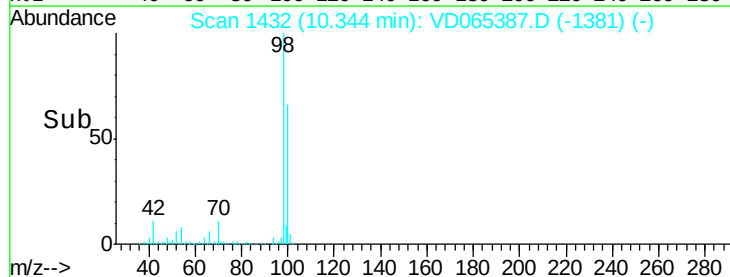
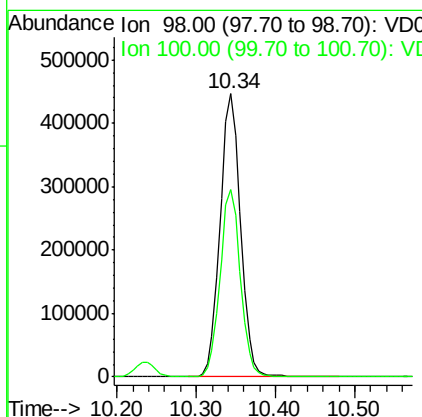
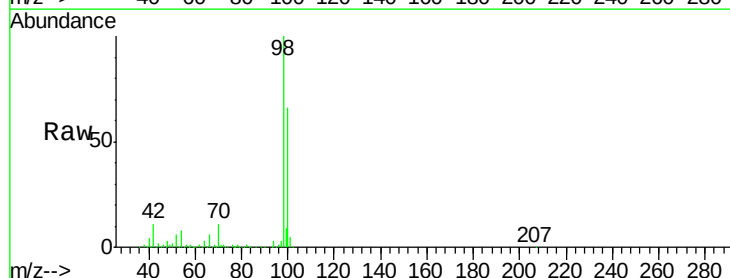
Manual Integrations
APPROVED

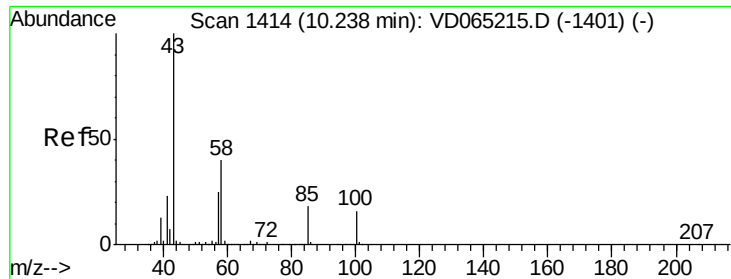
MMDadoda
3/4/2020 2:01:24 PM



#50
Toluene-d8
Concen: 51.517 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.0	78.0





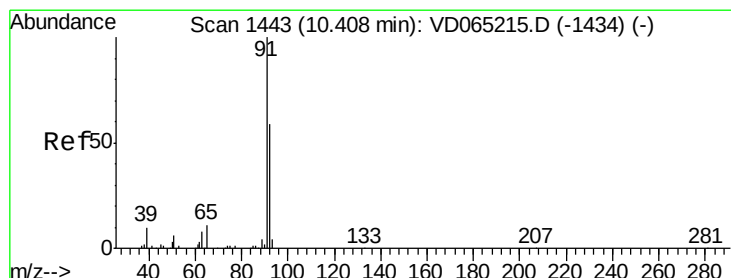
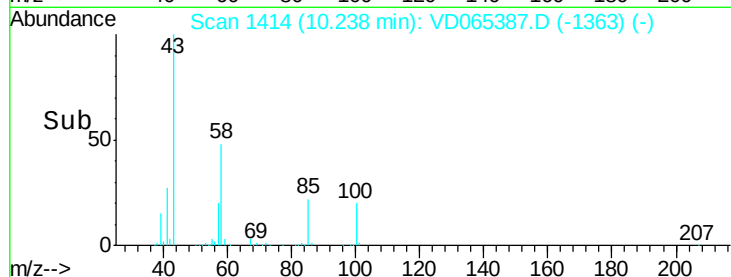
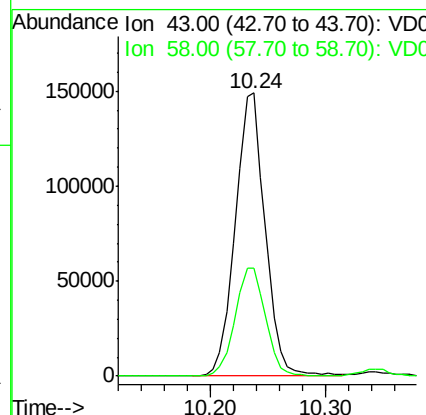
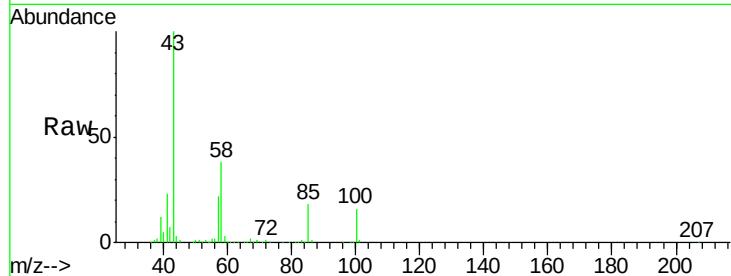
#51
4-Methyl-2-Pentanone
Concen: 106.496 ug/l
RT: 10.24 min Scan# 1414
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.0	31.1	46.7

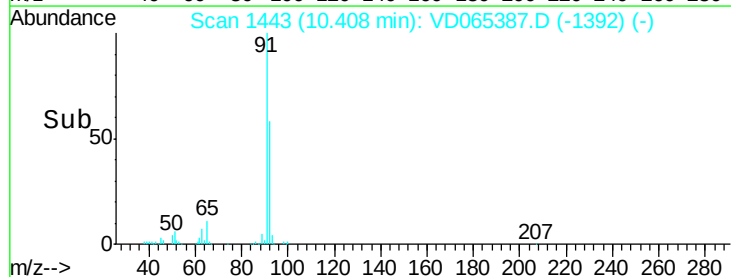
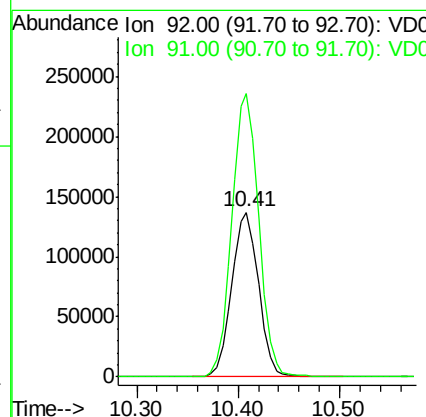
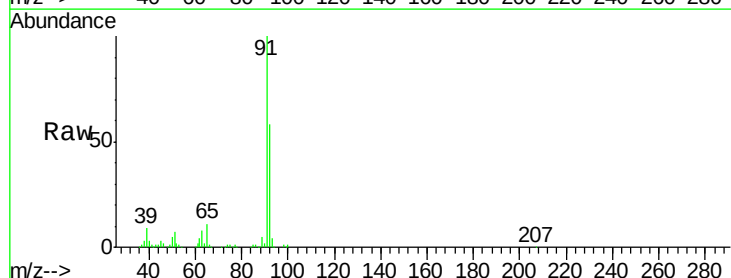
Manual Integrations
APPROVED

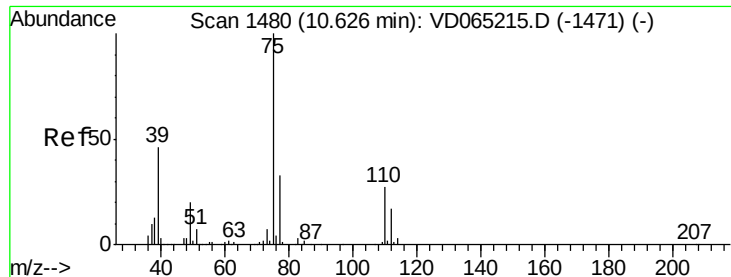
MMDadoda
3/4/2020 2:01:24 PM



#52
Toluene
Concen: 22.171 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.0	136.3	204.5





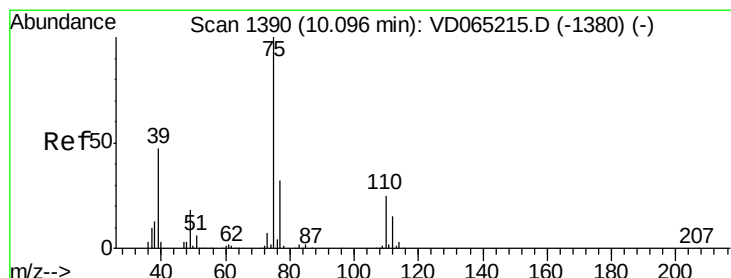
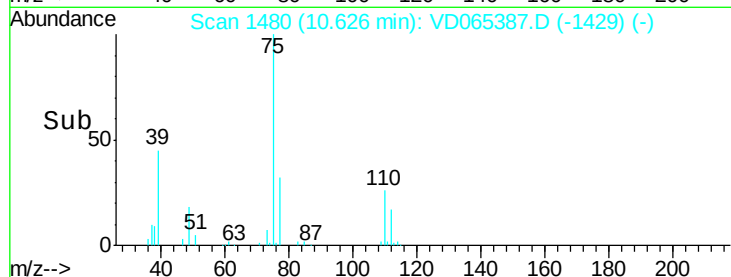
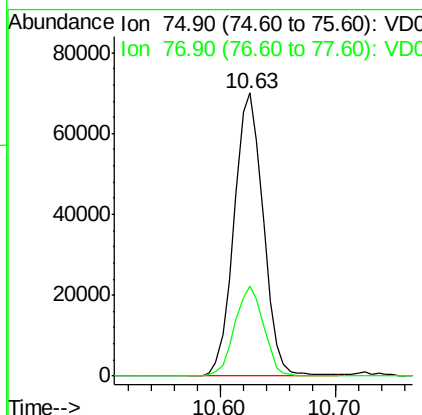
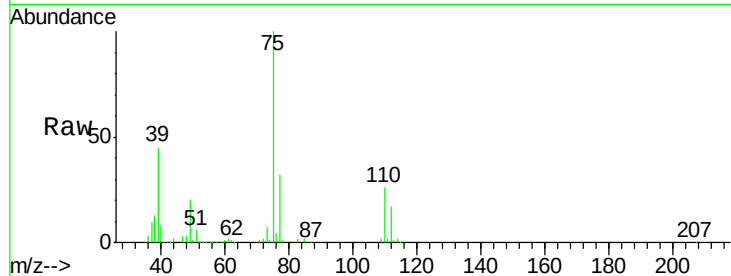
#53
 t-1,3-Dichloropropene
 Concen: 21.388 ug/l
 RT: 10.63 min Scan# 1480
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	26.6	40.0

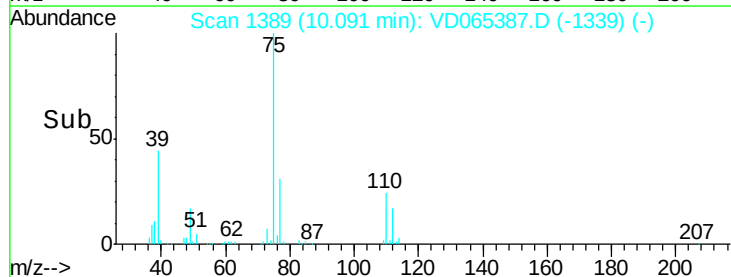
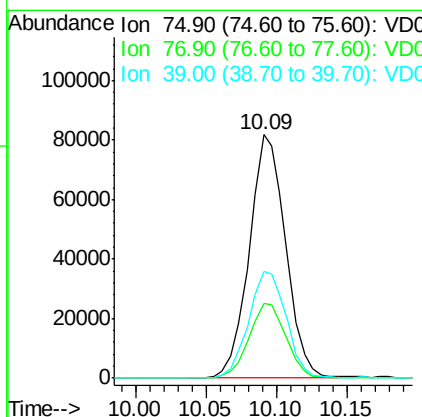
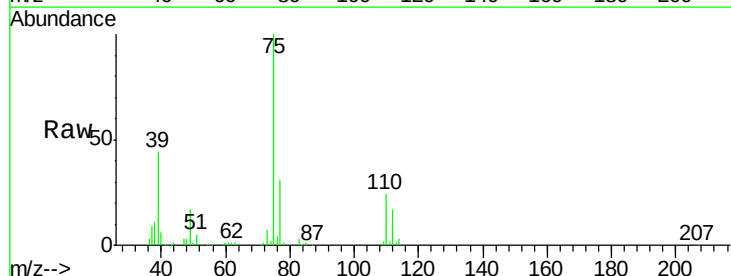
Manual Integrations
 APPROVED

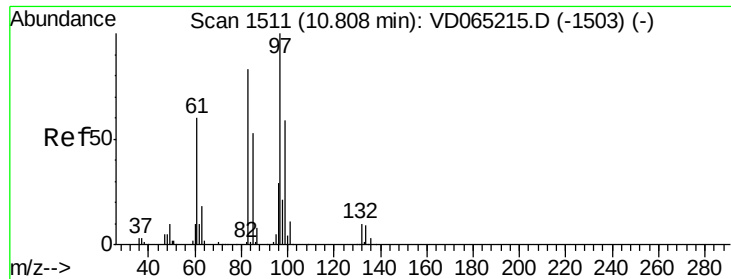
MMDadoda
 3/4/2020 2:01:24 PM



#54
 cis-1,3-Dichloropropene
 Concen: 21.330 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.8	38.8
39	43.7	37.3	55.9





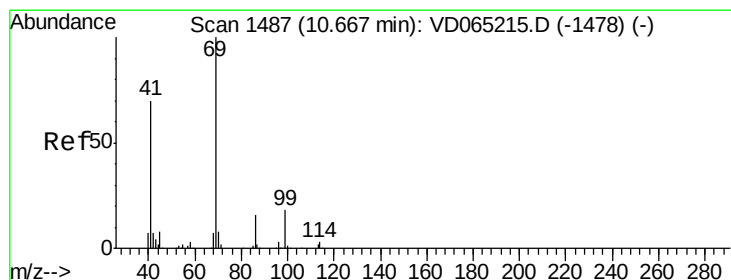
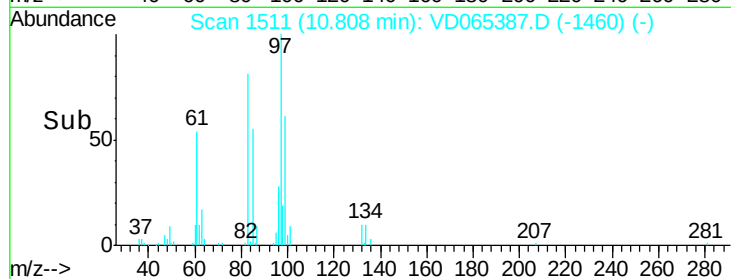
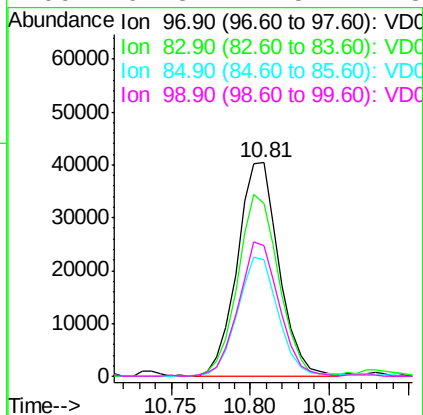
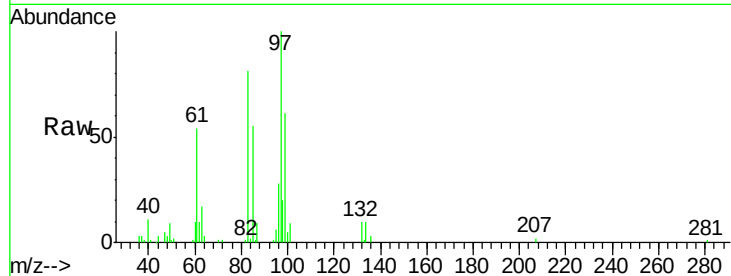
#55
 1,1,2-Trichloroethane
 Concen: 22.309 ug/l
 RT: 10.81 min Scan# 1511
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	81.1	66.7	100.1	
85	54.6	42.4	63.6	
99	61.3	47.5	71.3	

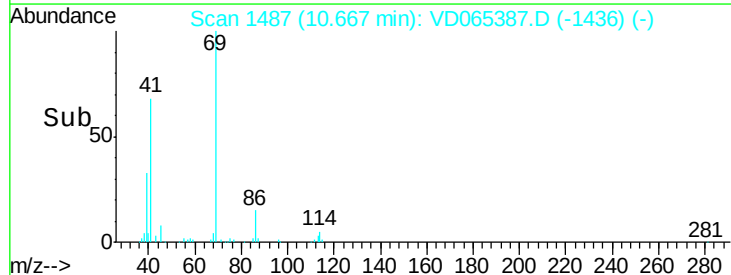
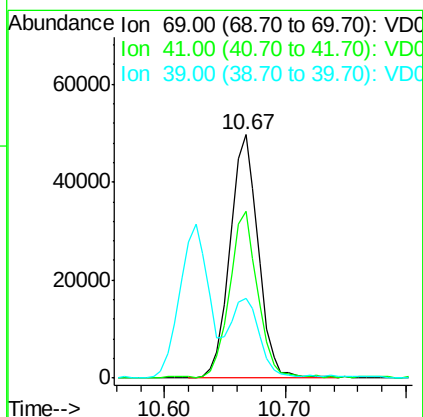
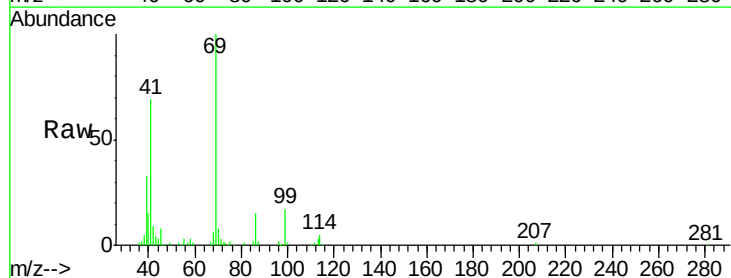
Manual Integrations
 APPROVED

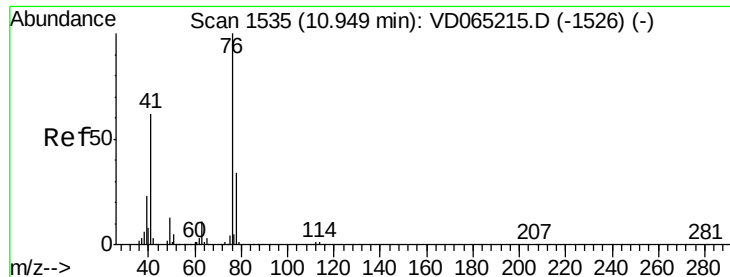
MMDadoda
 3/4/2020 2:01:24 PM



#56
 Ethyl methacrylate
 Concen: 21.237 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	68.4	54.6	81.8	
39	30.5	26.5	39.7	





#57

1,3-Dichloropropane

Concen: 22.024 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBSD01

Tot Ion: 76 Resp: 123973

Ion Ratio Lower Upper

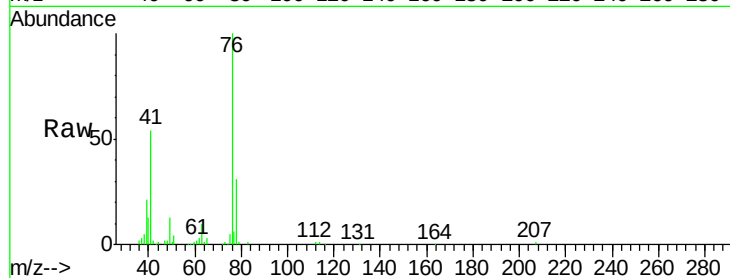
76 100

78 32.8 26.3 39.5

Manual Integrations
APPROVED

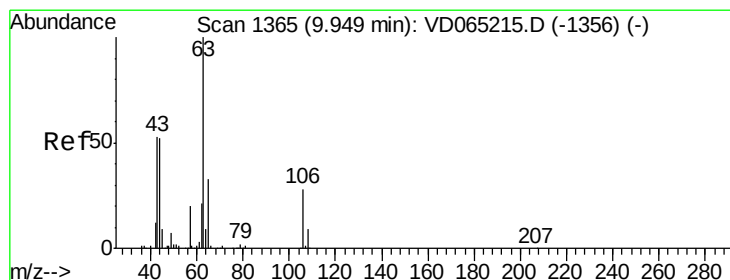
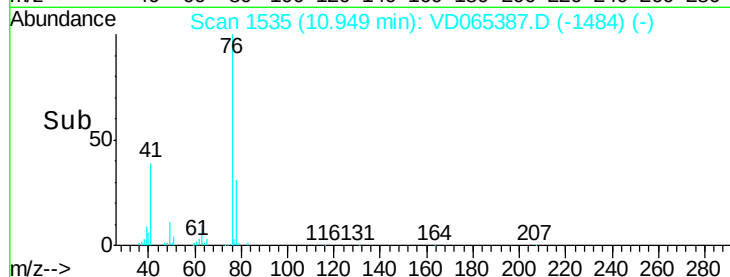
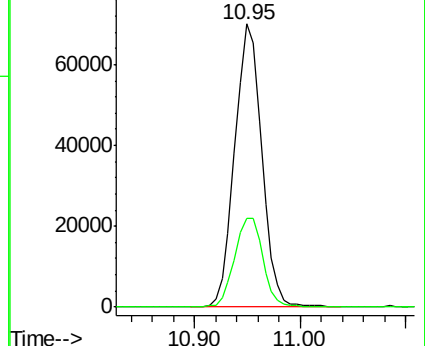
MMDadoda

3/4/2020 2:01:24 PM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 98.010 ug/l

RT: 9.95 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VD065387.D

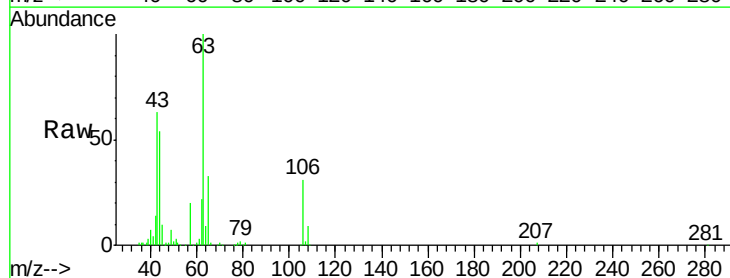
Acq: 03 Mar 2020 11:47

Tgt Ion: 63 Resp: 117957

Ion Ratio Lower Upper

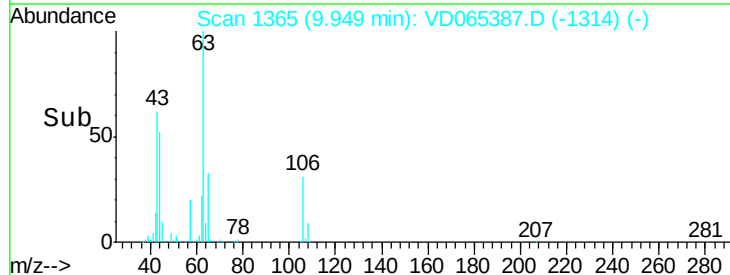
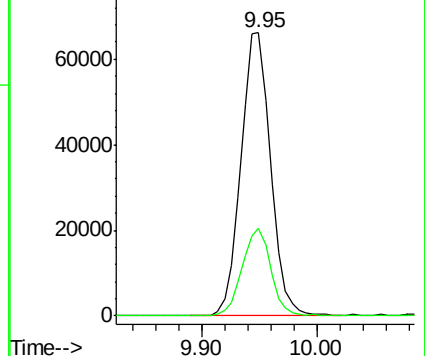
63 100

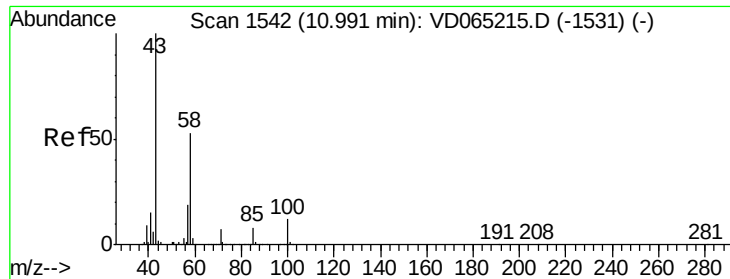
106 29.8 22.8 34.2



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V





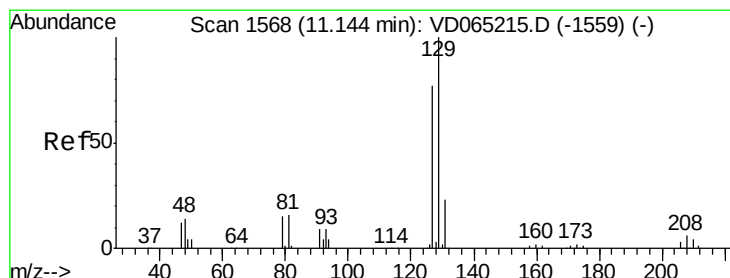
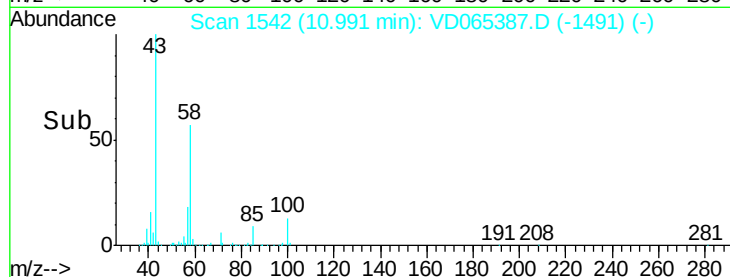
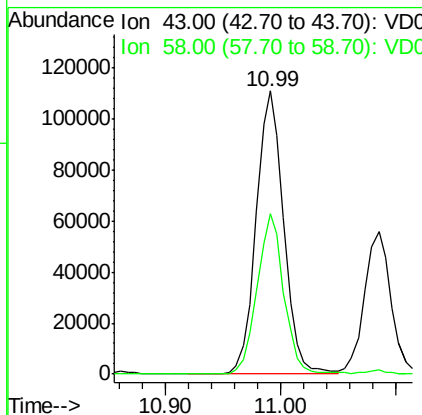
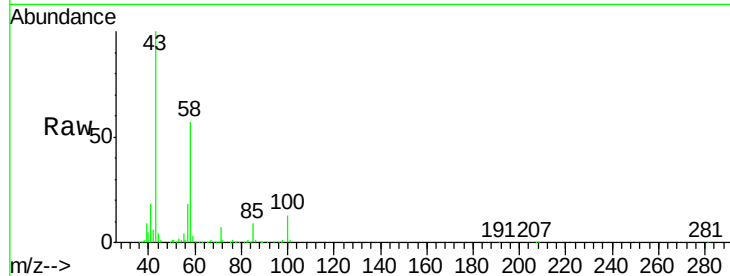
#59
2-Hexanone
Concen: 102.628 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBSD01

Tot Ion: 43 Resp: 184576
Ion Ratio Lower Upper
43 100
58 55.2 26.3 78.8

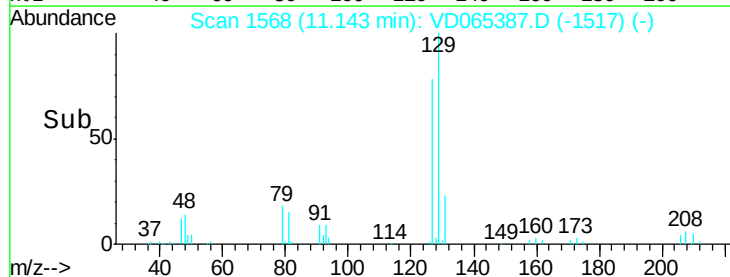
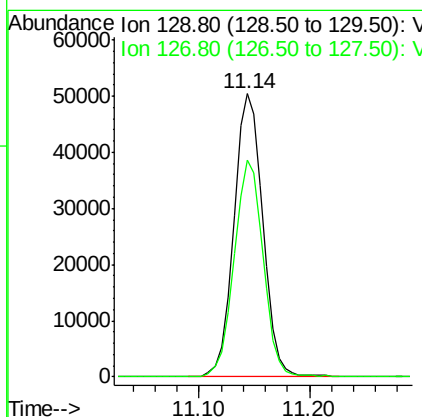
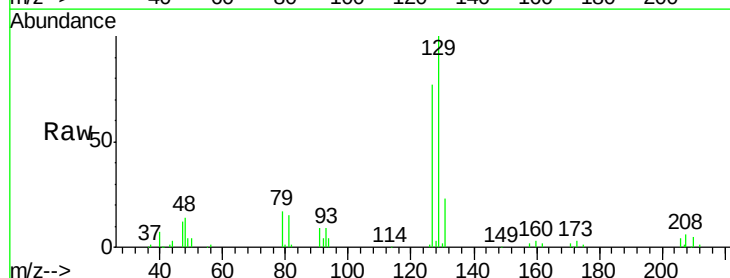
Manual Integrations
APPROVED

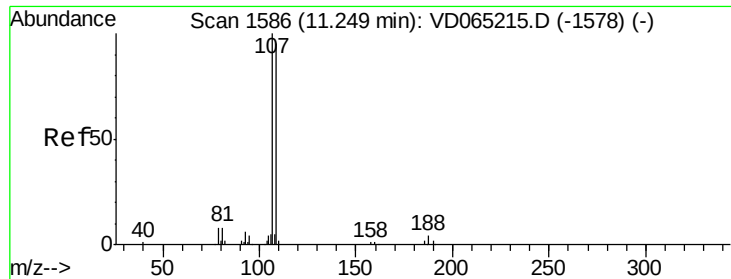
MMDadoda
3/4/2020 2:01:24 PM



#60
Dibromochloromethane
Concen: 21.890 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion: 129 Resp: 92664
Ion Ratio Lower Upper
129 100
127 76.9 38.7 116.1





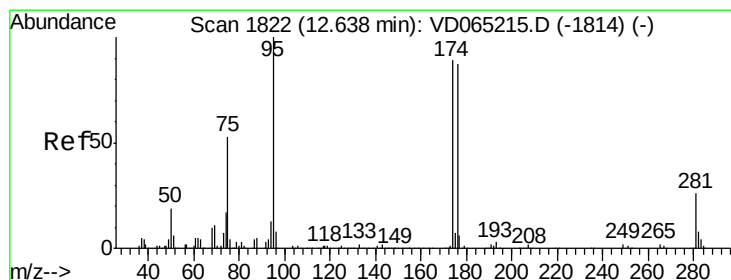
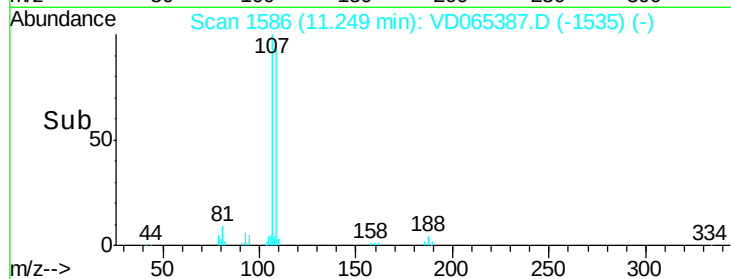
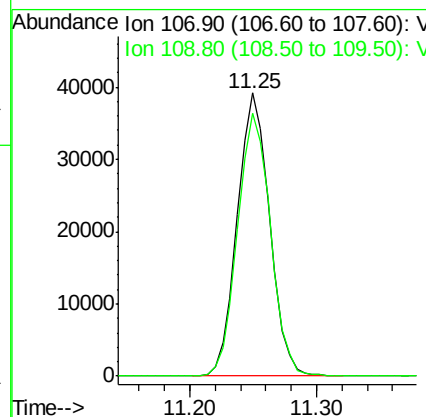
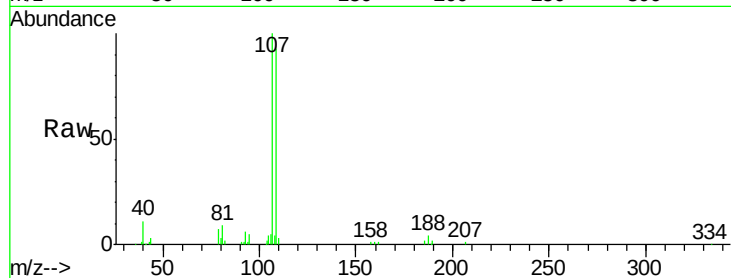
#61
 1,2-Dibromoethane
 Concen: 22.088 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.6	76.2	114.4

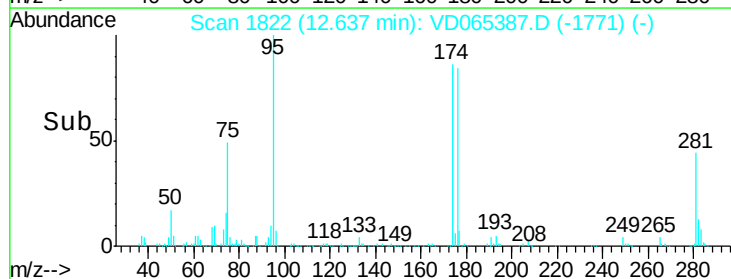
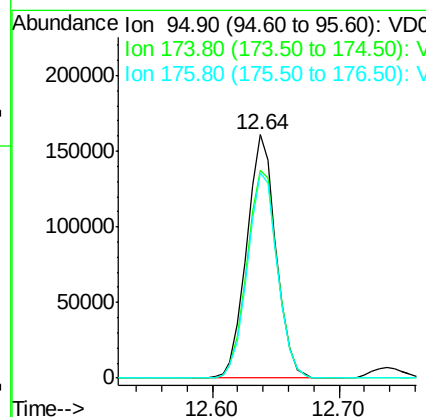
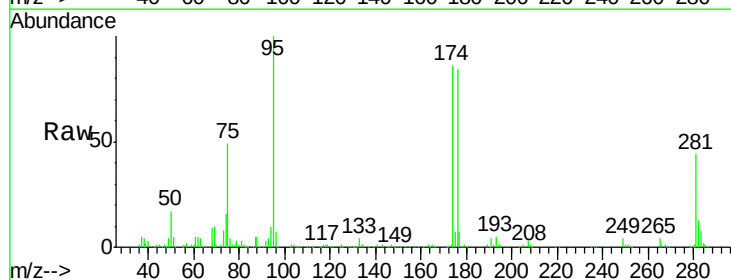
Manual Integrations
 APPROVED

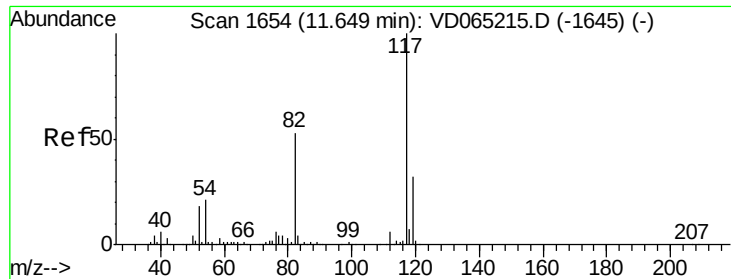
MMDadoda
 3/4/2020 2:01:24 PM



#62
 4-Bromofluorobenzene
 Concen: 52.149 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.4	0.0	178.0
176	86.4	0.0	174.4





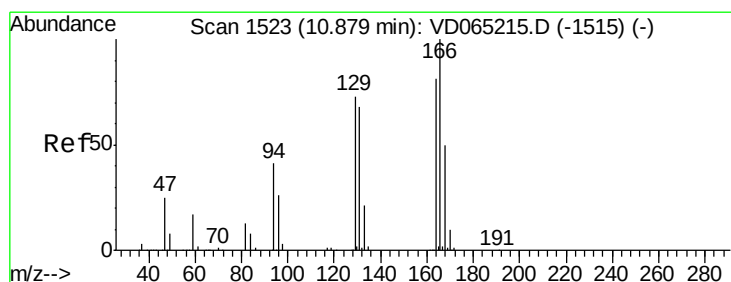
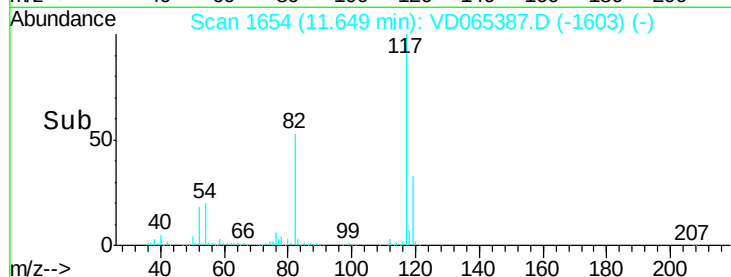
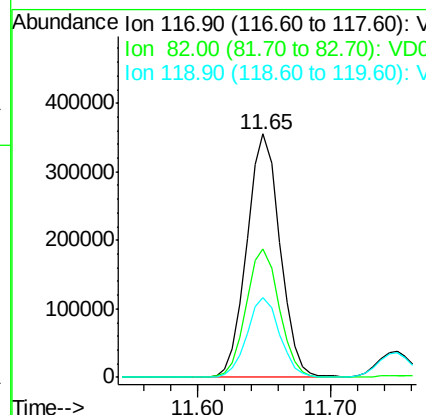
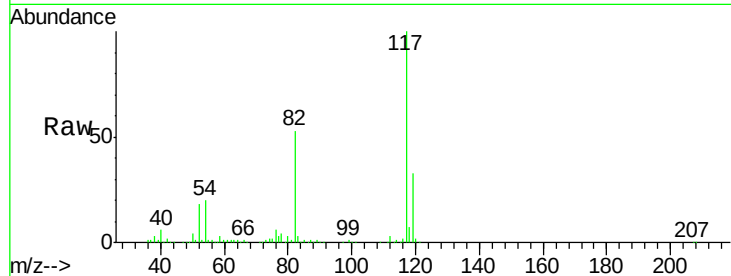
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.7	64.1
119	32.6	25.5	38.3

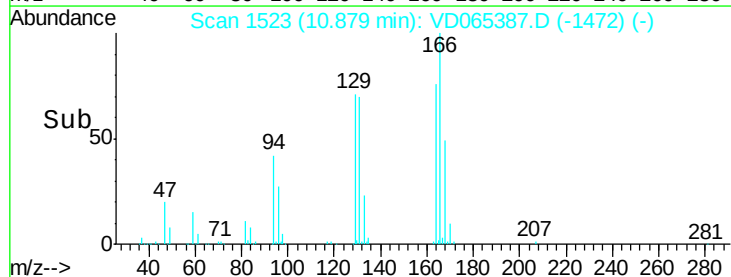
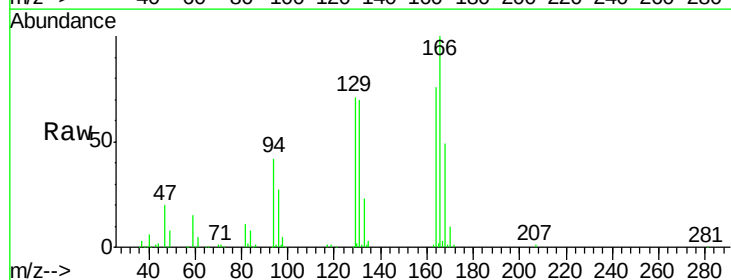
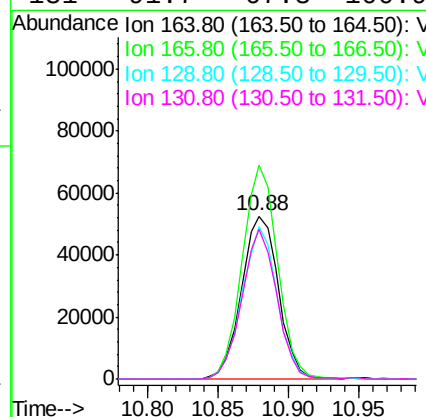
Manual Integrations
APPROVED

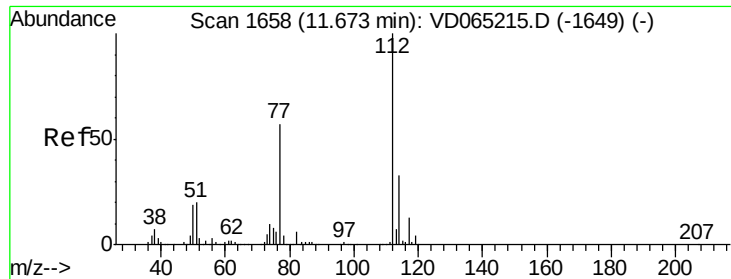
MMDadoda
3/4/2020 2:01:24 PM



#64
Tetrachloroethene
Concen: 22.337 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.1	98.4	147.6
129	93.2	71.6	107.4
131	91.7	67.3	100.9





#65

Chlorobenzene

Concen: 21.679 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion:112 Resp: 264710

Ion Ratio Lower Upper

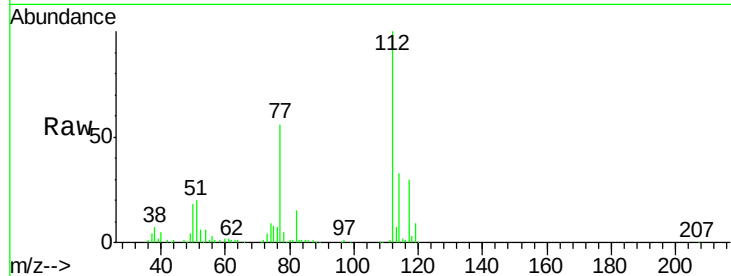
112 100

114 32.6 26.4 39.6

Manual Integrations
APPROVED

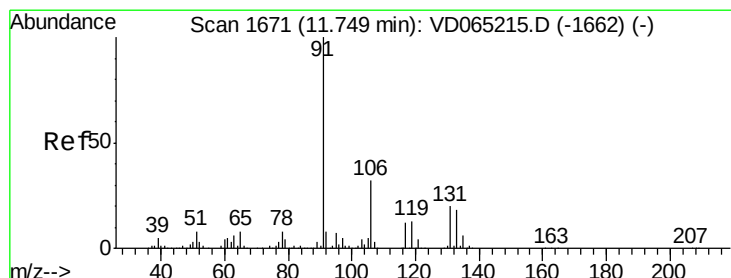
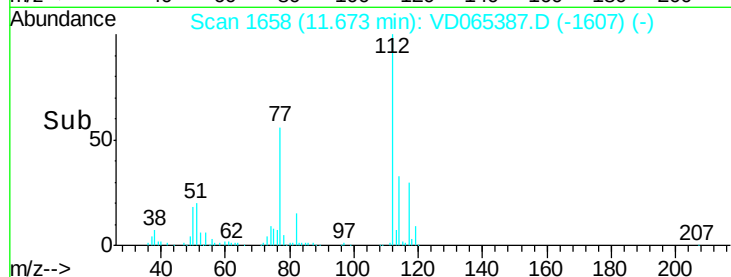
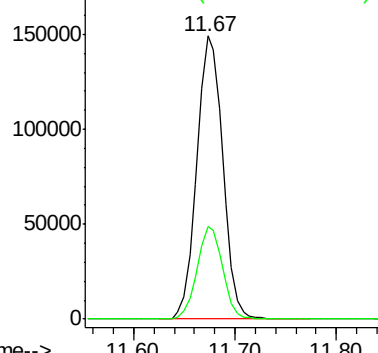
MMDadoda

3/4/2020 2:01:24 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.135 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

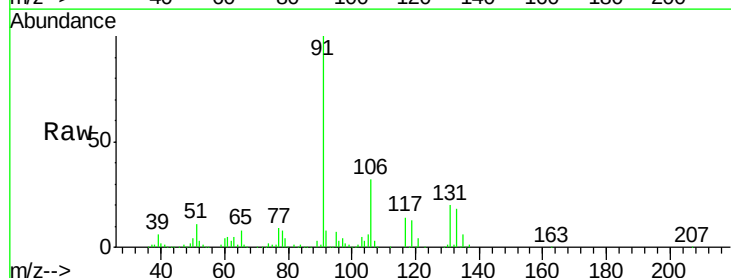
Tgt Ion:131 Resp: 100859

Ion Ratio Lower Upper

131 100

133 93.3 47.7 143.1

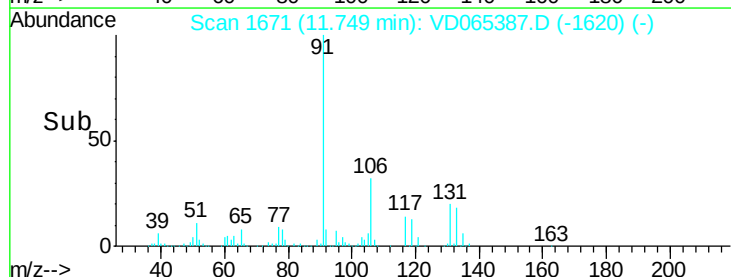
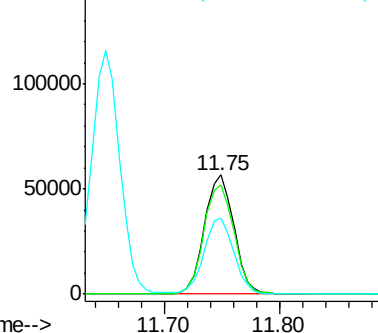
119 64.3 32.7 98.1

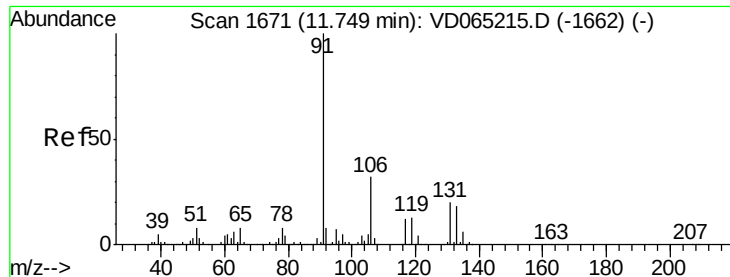


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 21.359 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion: 91 Resp: 456770

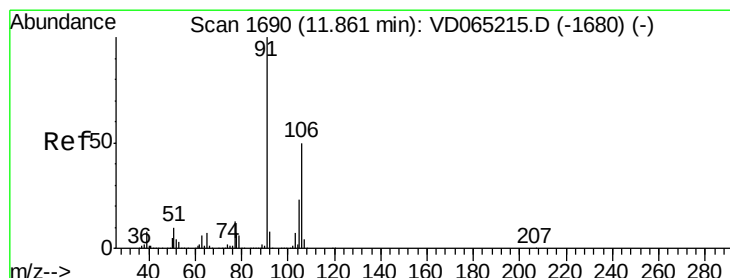
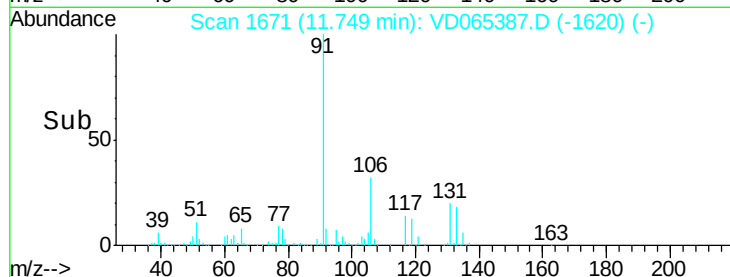
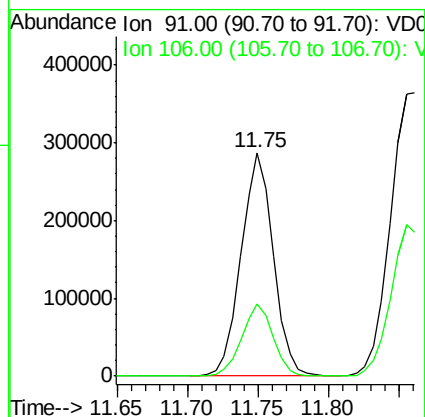
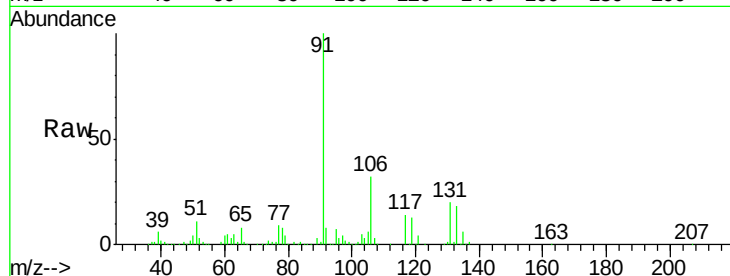
Ion Ratio Lower Upper

91 100

106 32.1 25.2 37.8

Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM



#68

m/p-Xylenes

Concen: 44.478 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VD065387.D

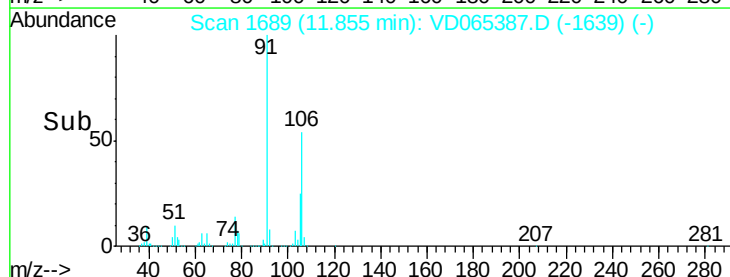
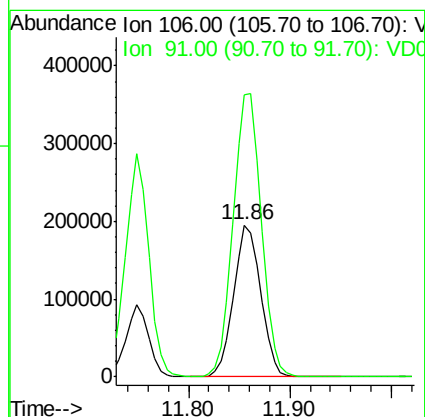
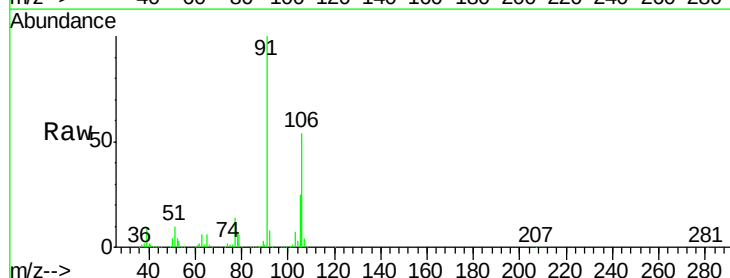
Acq: 03 Mar 2020 11:47

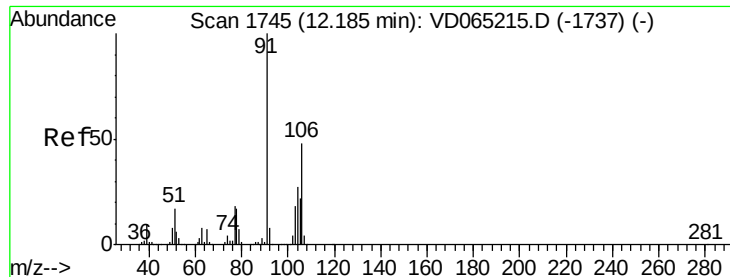
Tgt Ion: 106 Resp: 363911

Ion Ratio Lower Upper

106 100

91 193.6 158.2 237.4





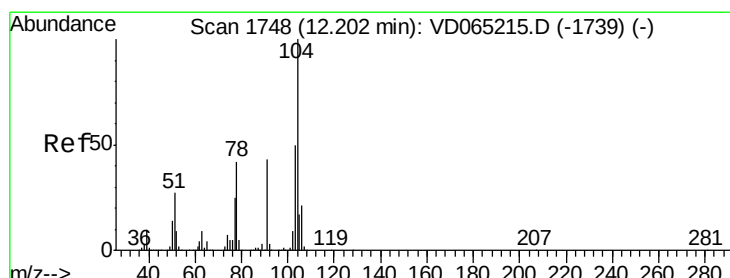
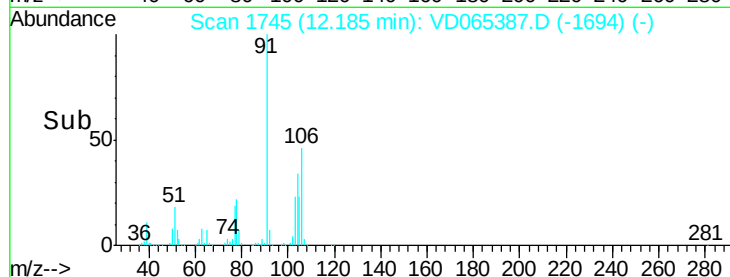
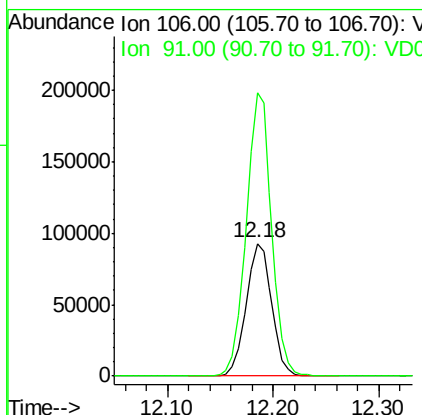
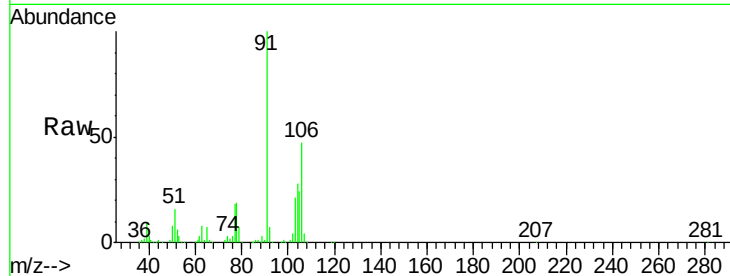
#69
o-Xylene
Concen: 21.568 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBS01

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	211.1	104.7	313.9	

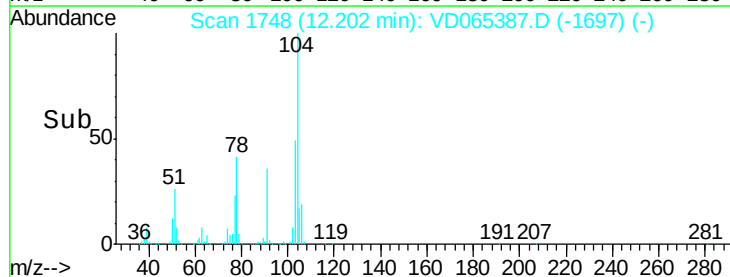
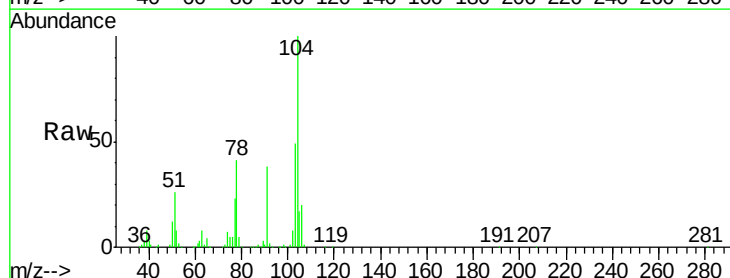
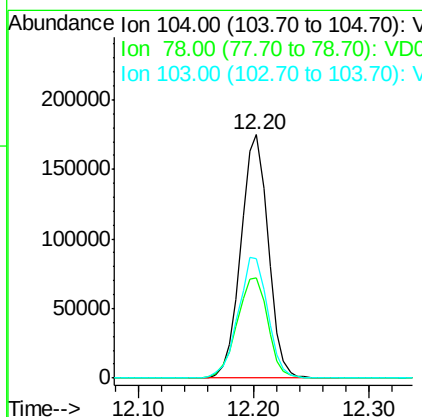
Manual Integrations
APPROVED

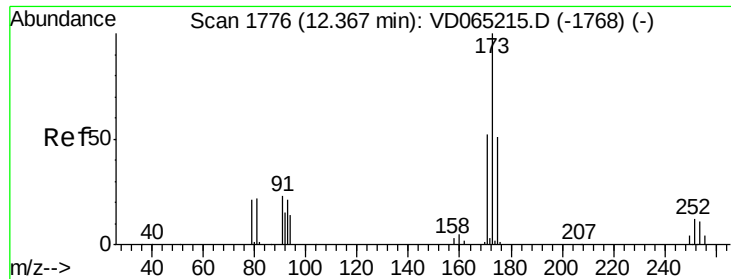
MMDadoda
3/4/2020 2:01:24 PM



#70
Styrene
Concen: 22.366 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	46.3	37.8	56.6	
103	53.9	43.4	65.2	





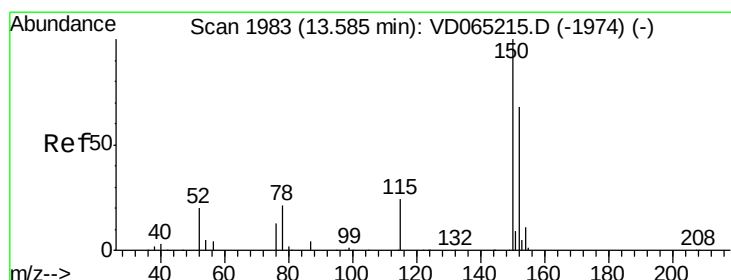
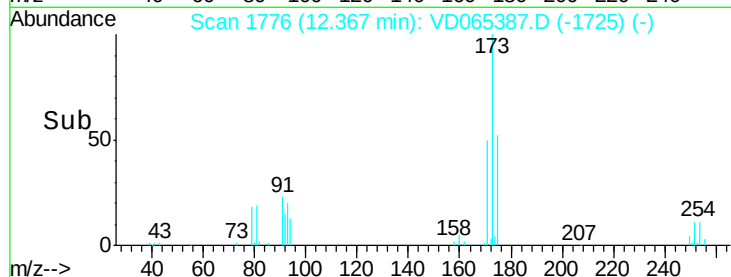
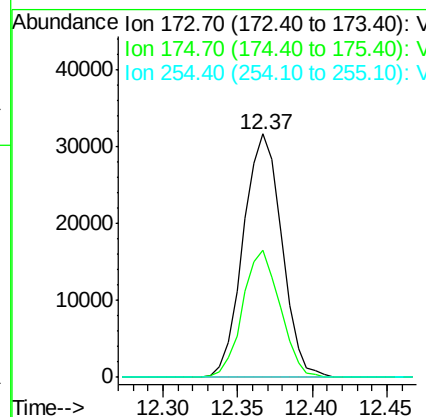
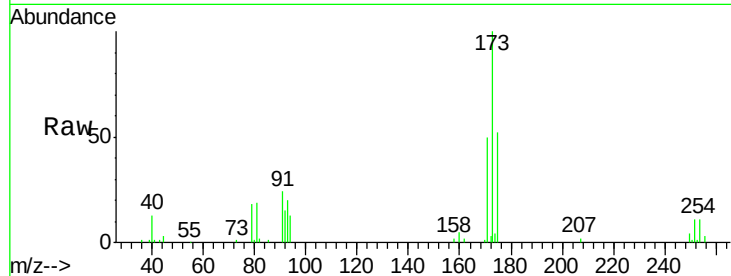
#71
Bromoform
Concen: 22.397 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.7	24.4	73.4
254	0.0	0.0	0.0

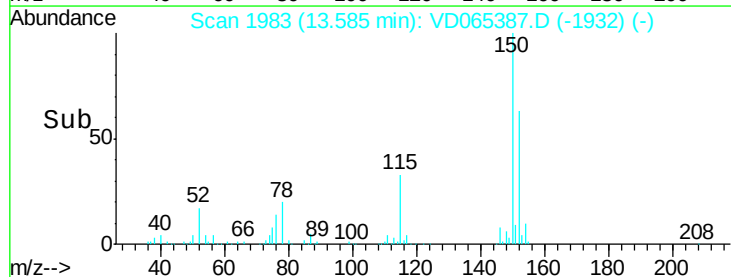
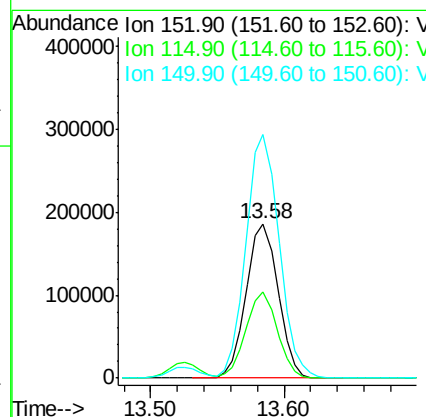
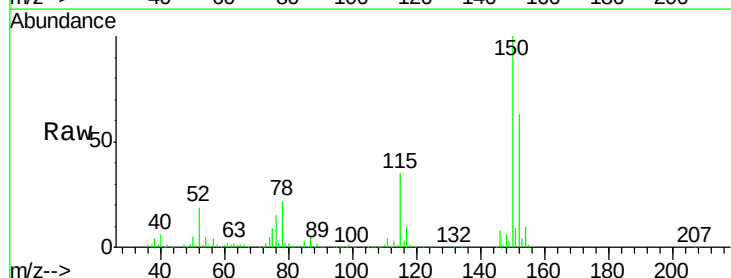
Manual Integrations
APPROVED

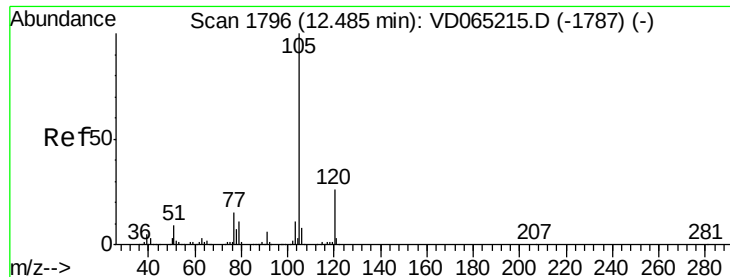
MMDadoda
3/4/2020 2:01:24 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	27.6	82.8
150	163.8	0.0	347.4





#73

Isopropylbenzene

Concen: 21.210 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion: 105 Resp: 433390

Ion Ratio Lower Upper

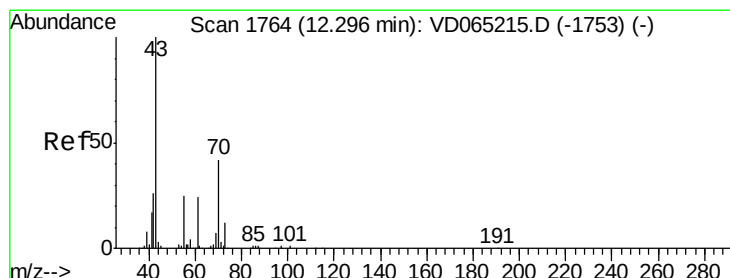
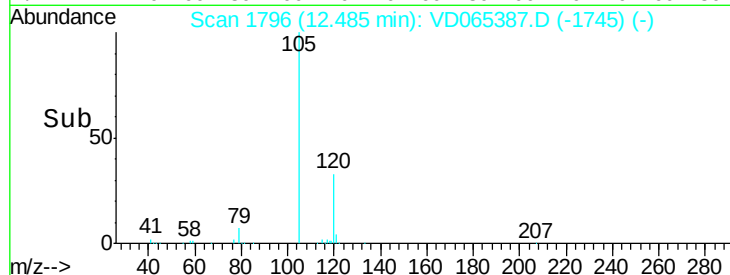
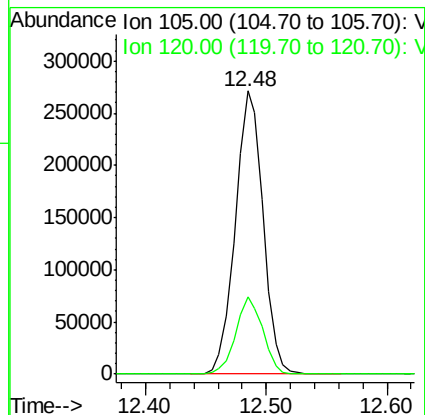
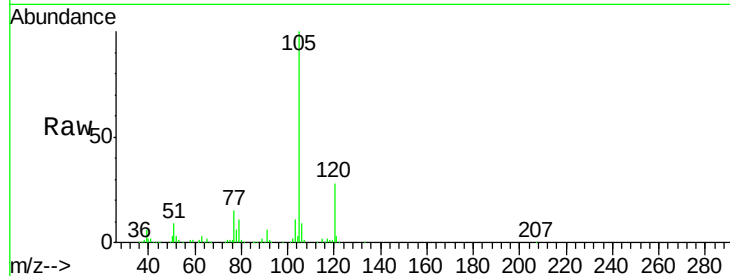
105 100

120 26.8 13.3 39.9

Manual Integrations
APPROVED

MMDadoda

3/4/2020 2:01:24 PM



#74

N-ethyl acetate

Concen: 19.839 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Tgt Ion: 43 Resp: 90076

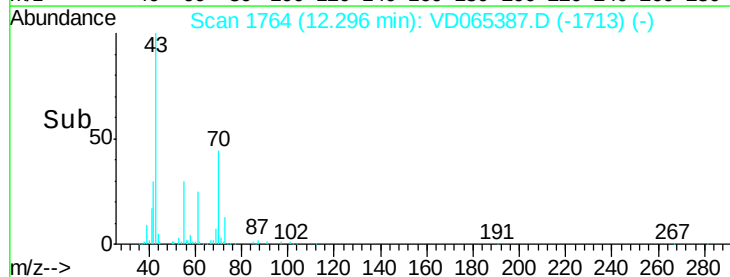
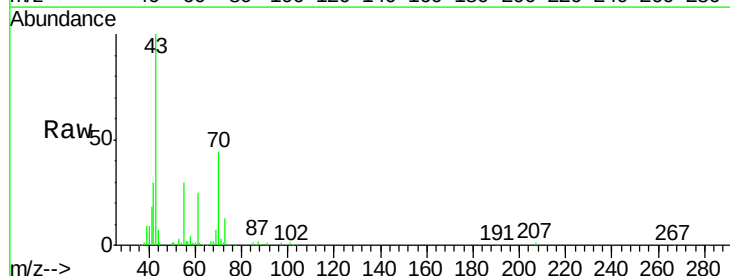
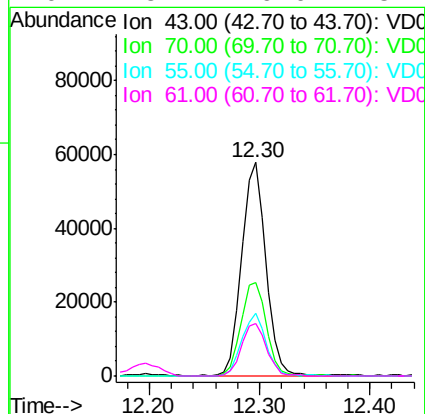
Ion Ratio Lower Upper

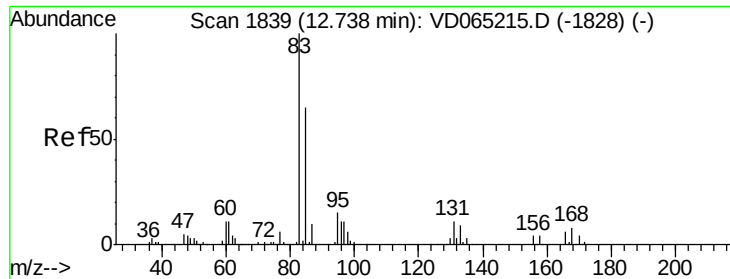
43 100

70 45.6 33.7 50.5

55 29.2 20.7 31.1

61 25.2 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 21.570 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

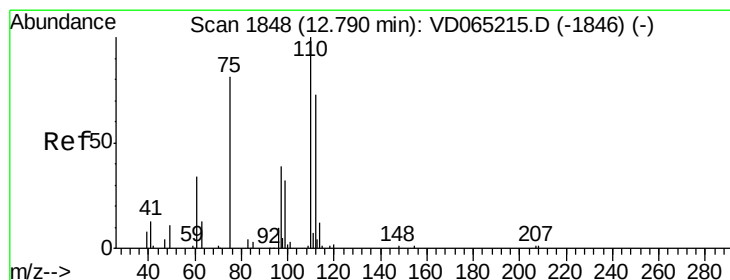
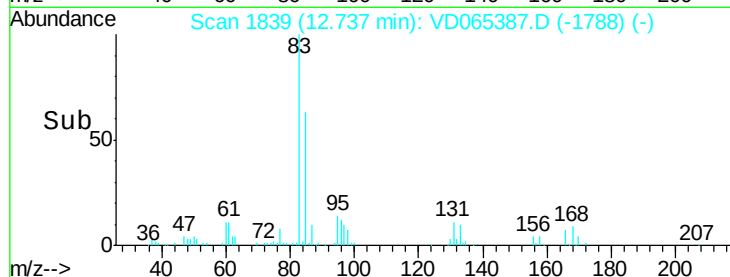
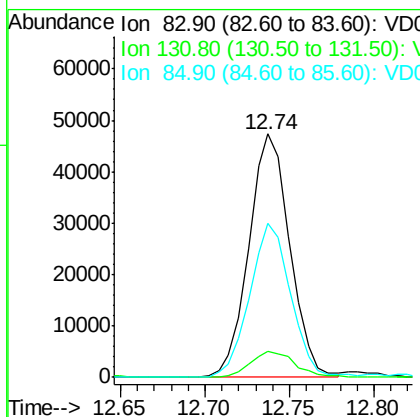
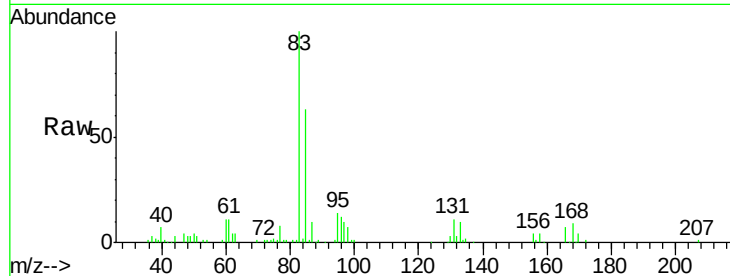
ClientSampleId :

VD0303SBS01

Tot Ion:	83	Resp:	79543
Ion	Ratio	Lower	Upper
83	100		
131	11.5	5.4	16.2
85	64.1	31.6	94.8

Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM



#76

1,2,3-Trichloropropane

Concen: 22.987 ug/l m

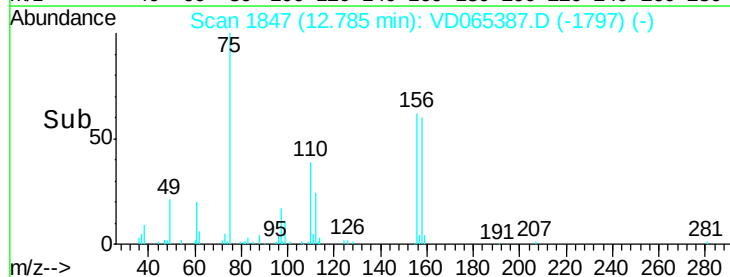
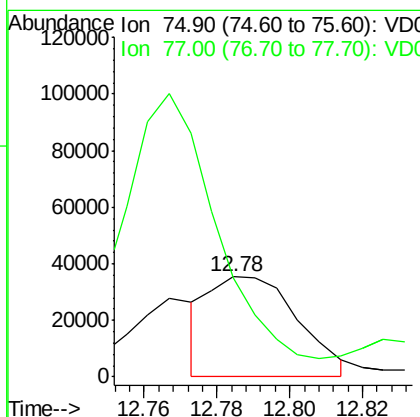
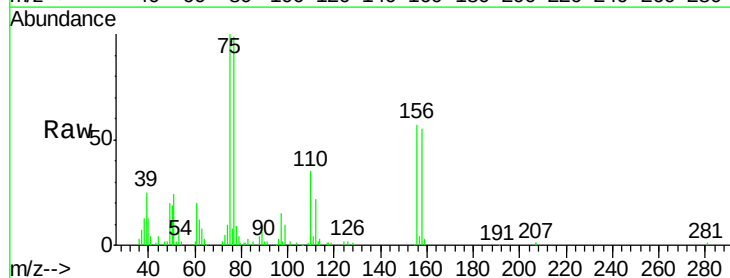
RT: 12.78 min Scan# 1847

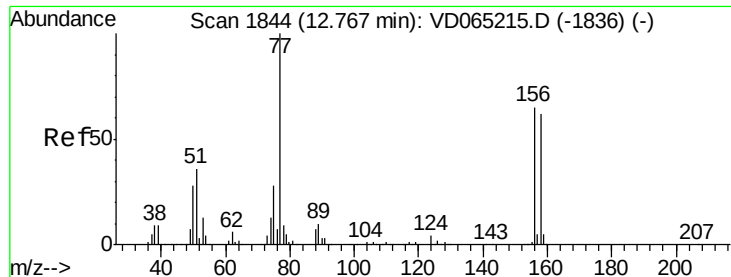
Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Tgt Ion:	75	Resp:	60363
Ion	Ratio	Lower	Upper
75	100		
77	310.4	0.0	0.0#





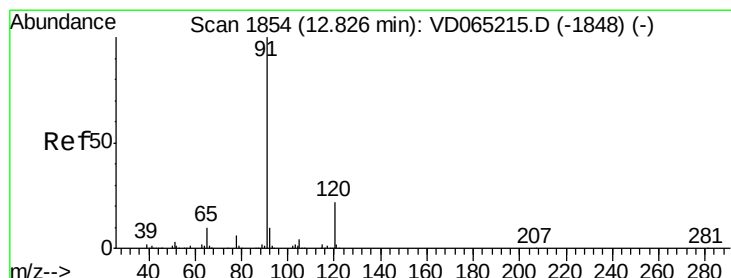
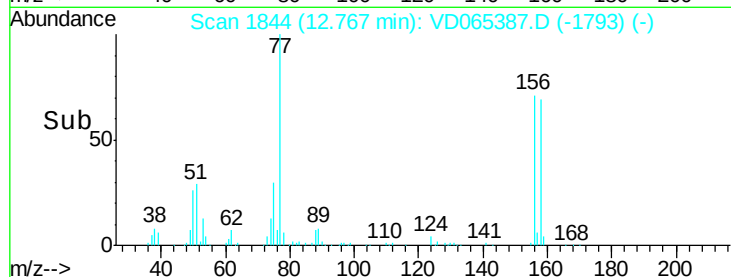
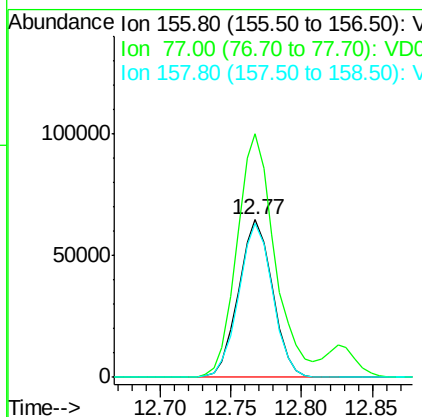
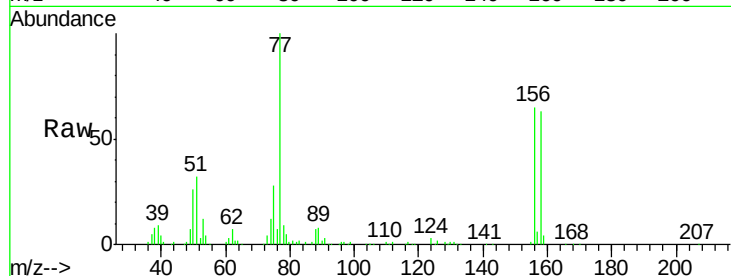
#77
Bromobenzene
Concen: 21.575 ug/l
RT: 12.77 min Scan# 1844
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	171.2	86.6	259.7	
158	97.1	48.1	144.3	

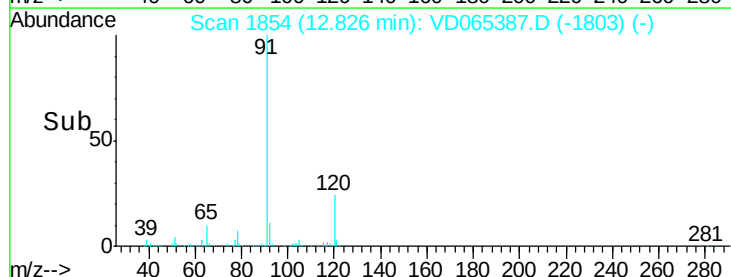
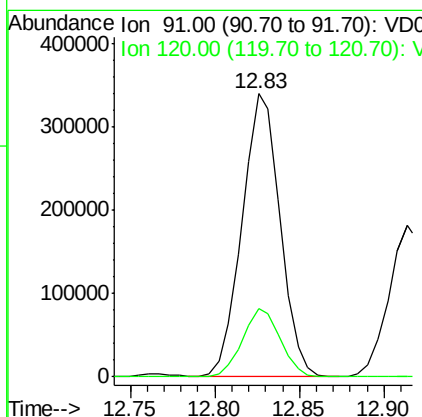
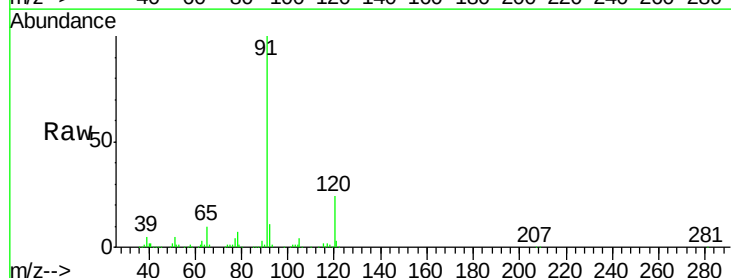
Manual Integrations
APPROVED

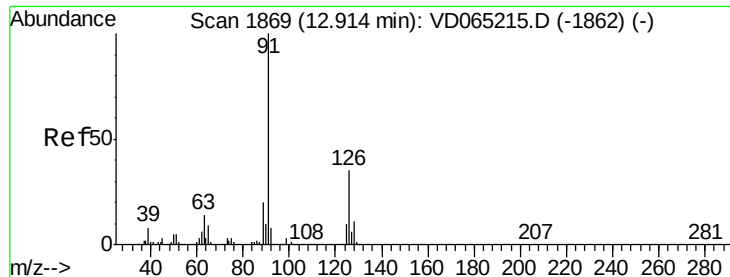
MMDadoda
3/4/2020 2:01:24 PM



#78
n-propylbenzene
Concen: 21.667 ug/l
RT: 12.83 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	24.0	11.5	34.5	





#79

2-Chlorotoluene

Concen: 21.437 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBS01

Tot Ion: 91 Resp: 294891

Ion Ratio Lower Upper

91 100

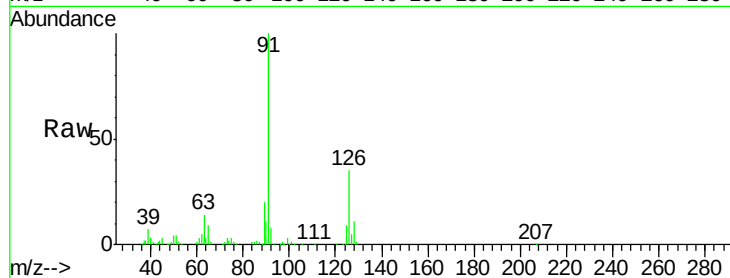
126 35.5 17.5 52.6

Manual Integrations

APPROVED

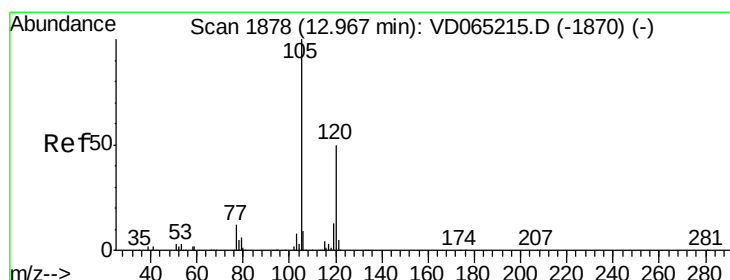
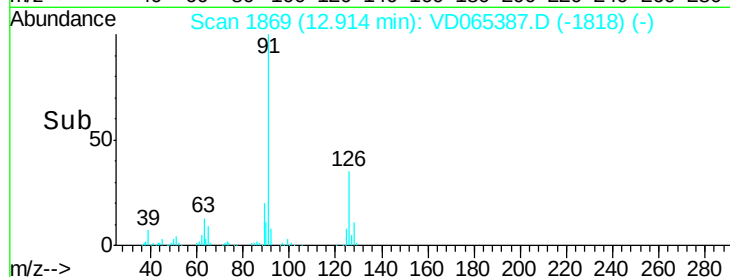
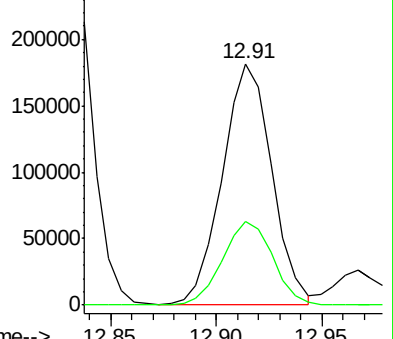
MMDadoda

3/4/2020 2:01:24 PM



Abundance Ion 91.00 (90.70 to 91.70): VD065215.D (-1862) (-)

Ion 125.90 (125.60 to 126.60): VD065215.D (-1862) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.844 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD065387.D

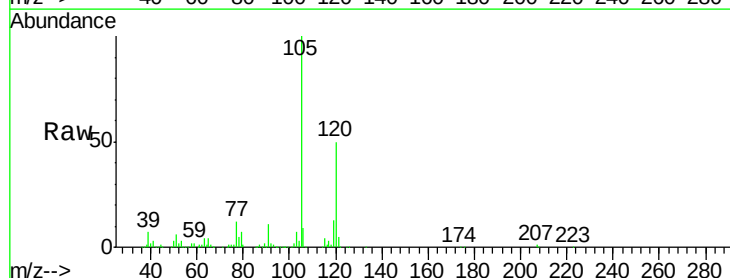
Acq: 03 Mar 2020 11:47

Tgt Ion: 105 Resp: 367625

Ion Ratio Lower Upper

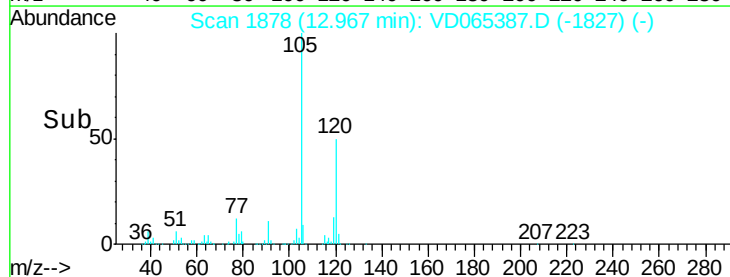
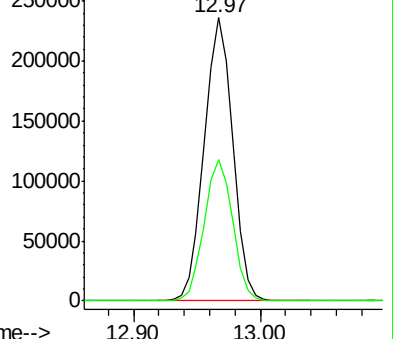
105 100

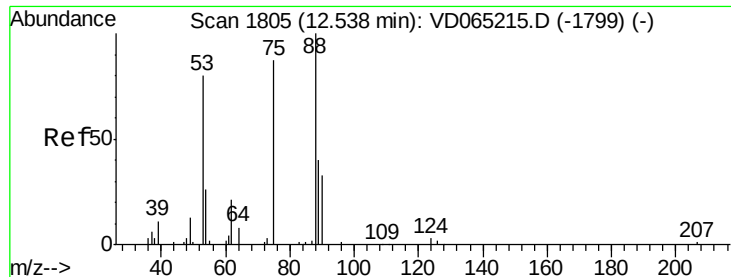
120 49.6 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): VD065215.D (-1870) (-)

Ion 120.00 (119.70 to 120.70): VD065215.D (-1870) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 20.776 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. -0.01 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

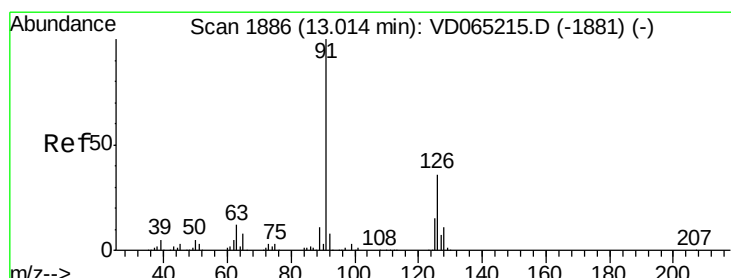
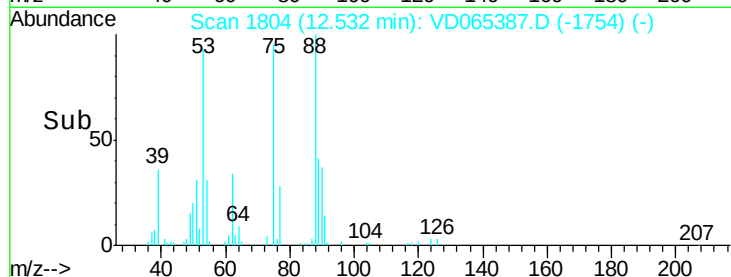
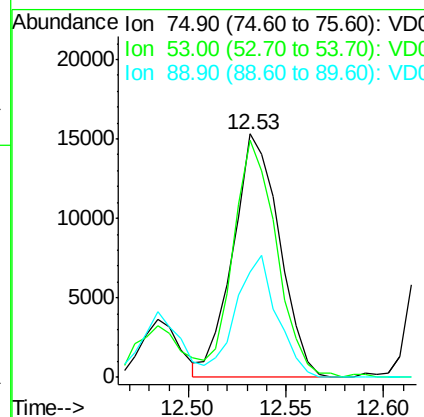
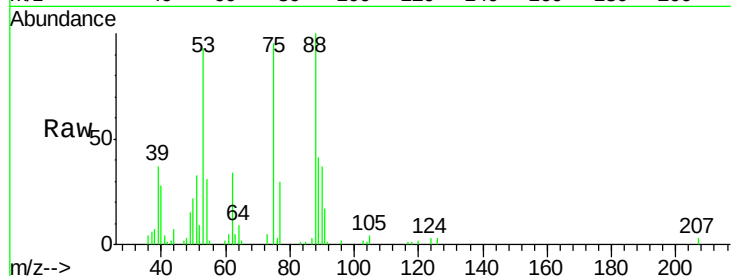
ClientSampleId :

VD0303SBSD01

Tot Ion:	75	Resp:	25268
Ion	Ratio	Lower	Upper
75	100		
53	90.0	77.6	116.4
89	44.4	37.2	55.8

Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM



#82

4-Chlorotoluene

Concen: 21.373 ug/l

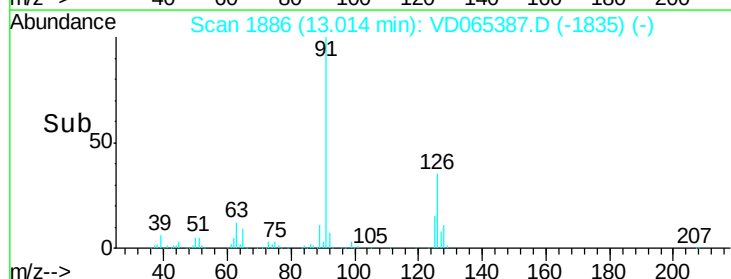
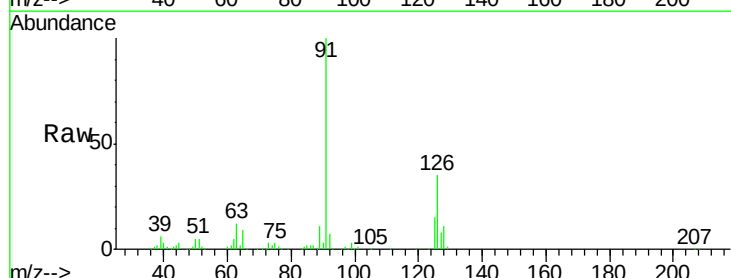
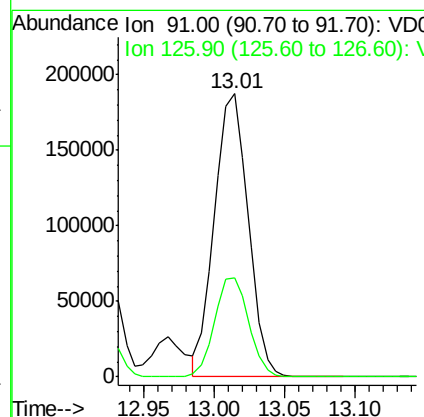
RT: 13.01 min Scan# 1886

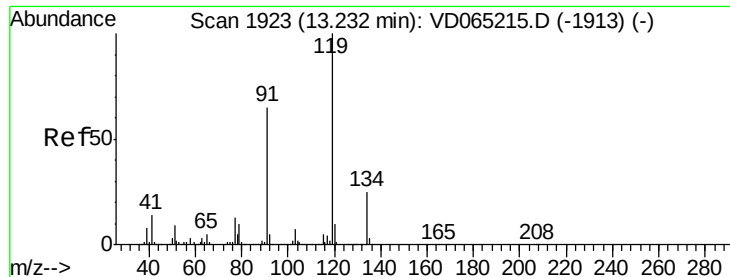
Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Tgt Ion:	91	Resp:	312131
Ion	Ratio	Lower	Upper
91	100		
126	35.4	17.4	52.3





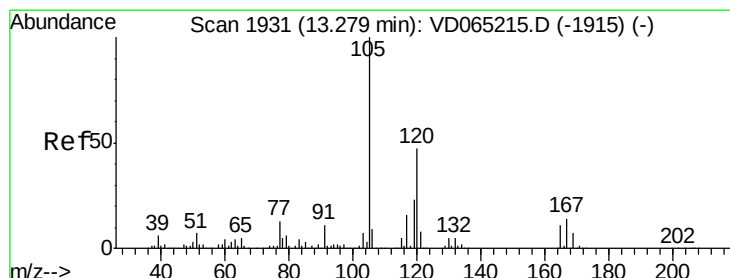
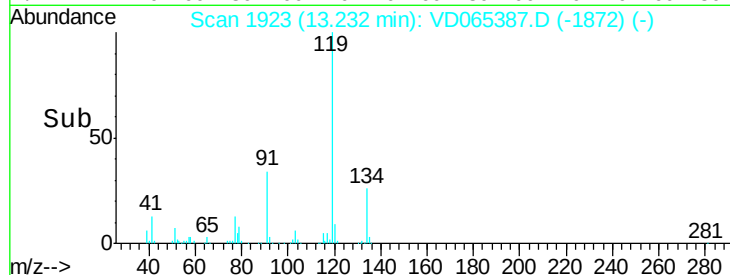
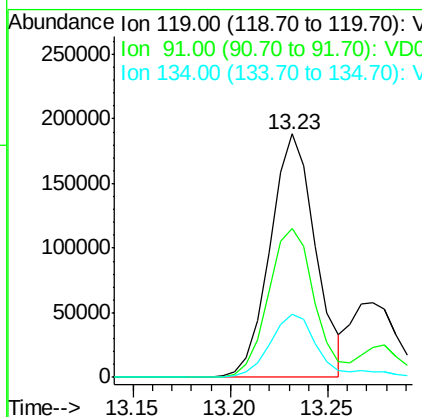
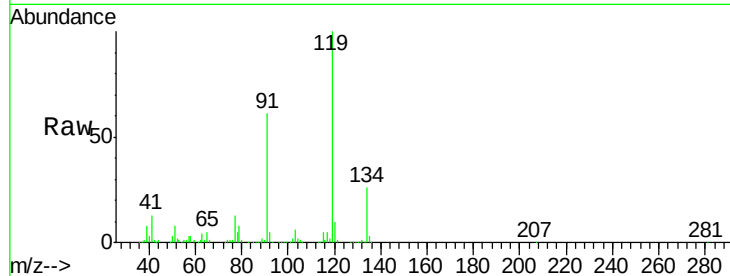
#83
 tert-Butylbenzene
 Concen: 21.428 ug/l
 RT: 13.23 min Scan# 1923
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.9	31.9	95.5
134	28.3	13.8	41.3

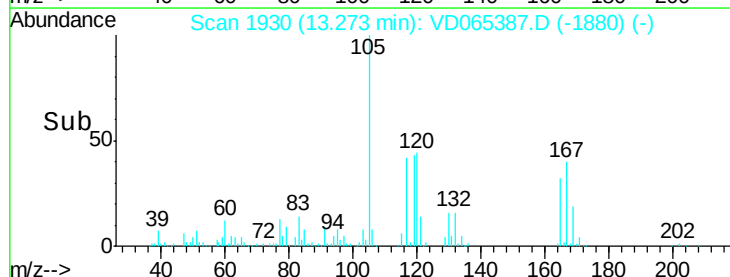
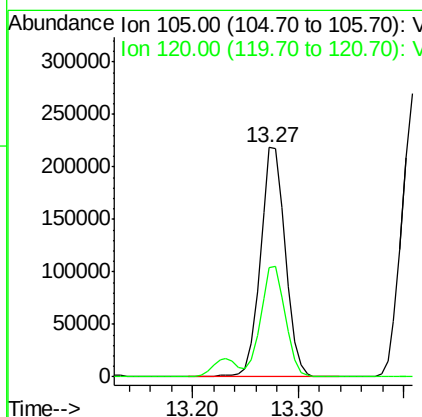
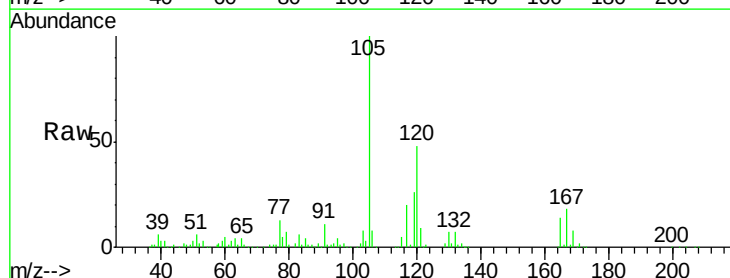
Manual Integrations
 APPROVED

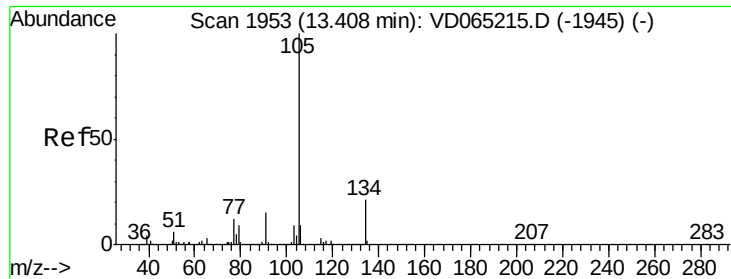
MMDadoda
 3/4/2020 2:01:24 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.371 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.01 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.3	69.9





#85

sec-Butylbenzene

Concen: 21.340 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0303SBSD01

Tot Ion:105 Resp: 433740

Ion Ratio Lower Upper

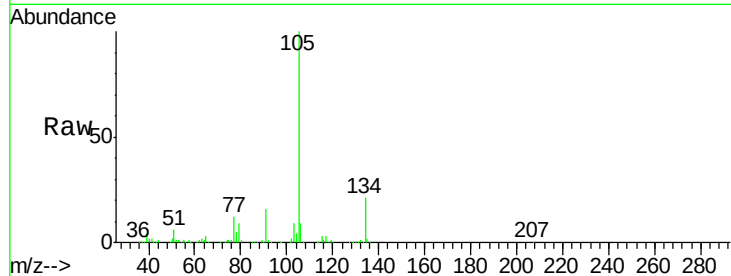
105 100

134 20.8 10.3 30.9

Manual Integrations
APPROVED

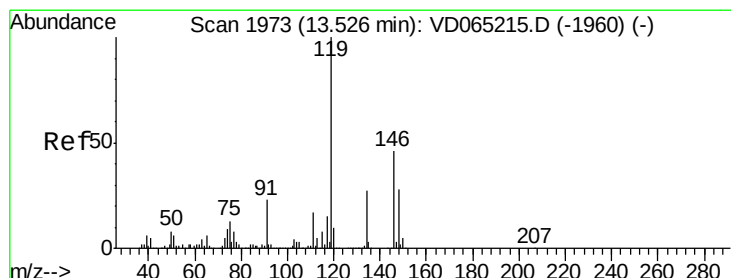
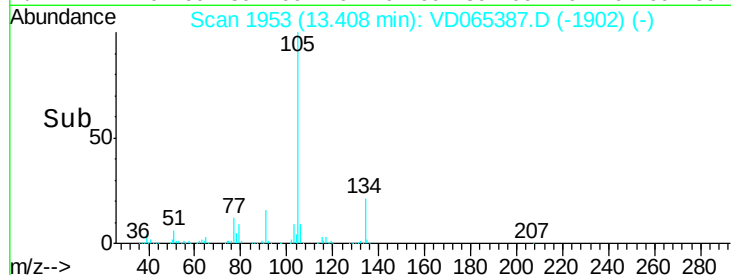
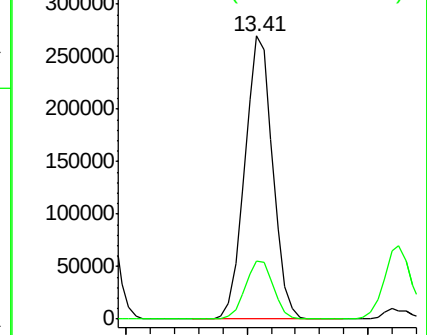
MMDadoda

3/4/2020 2:01:24 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.644 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD065387.D

Acq: 03 Mar 2020 11:47

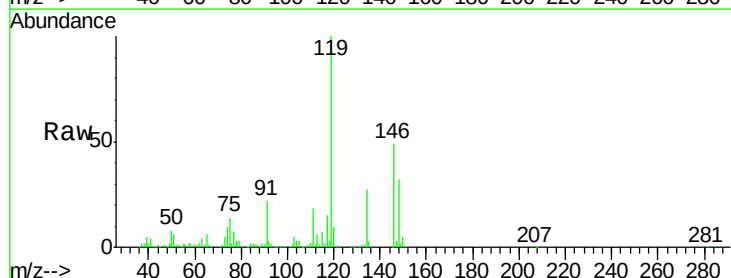
Tgt Ion:119 Resp: 402299

Ion Ratio Lower Upper

119 100

134 26.9 13.3 39.8

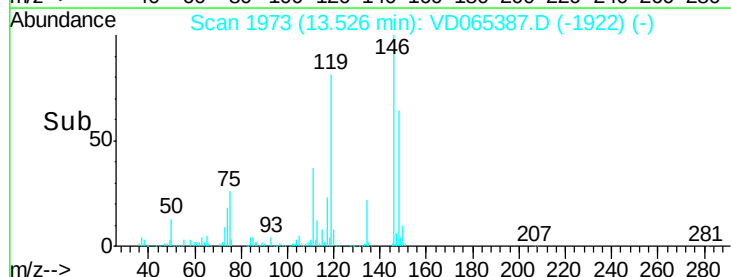
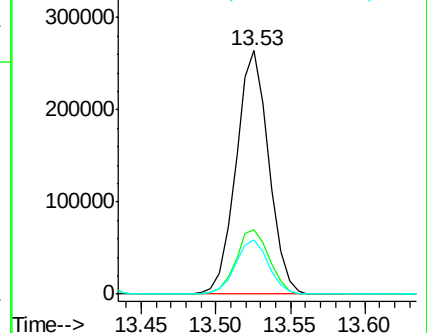
91 22.2 11.1 33.1

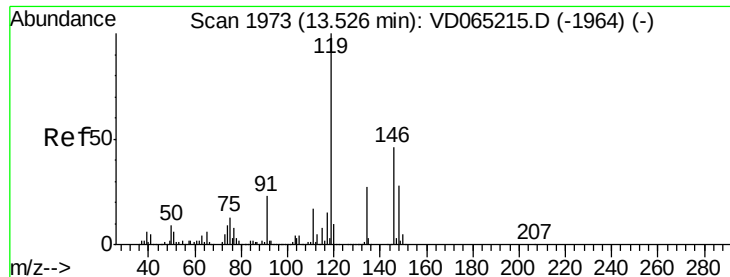


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





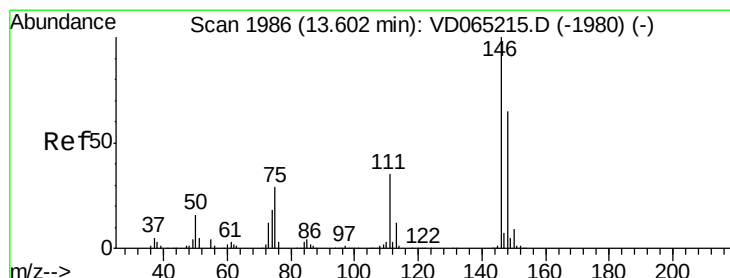
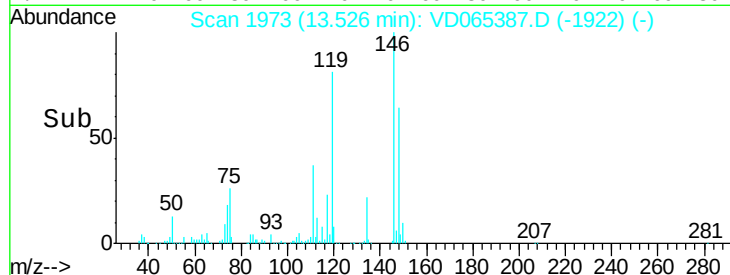
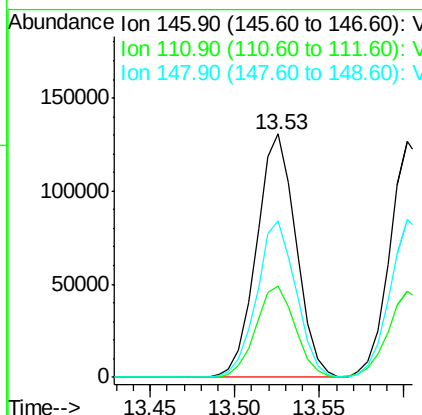
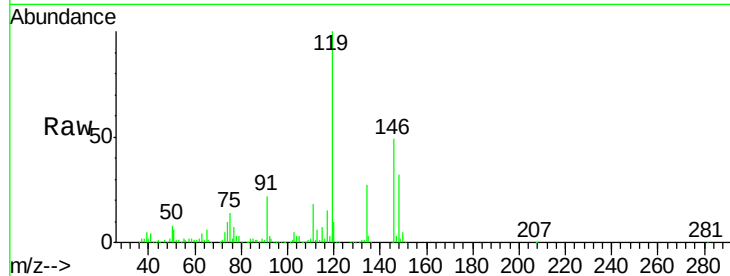
#87
 1,3-Dichlorobenzene
 Concen: 21.589 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.6	55.8
148	63.8	31.4	94.3

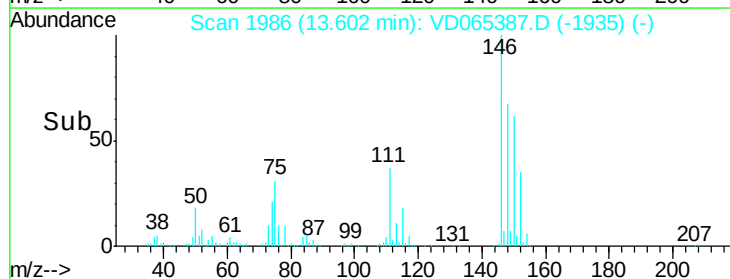
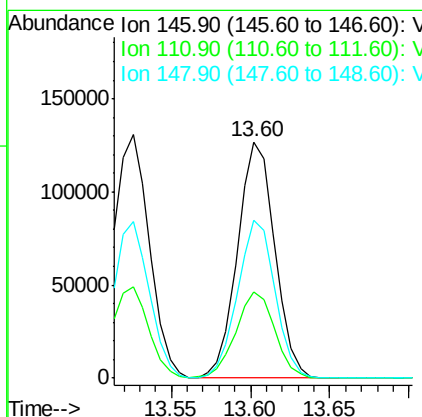
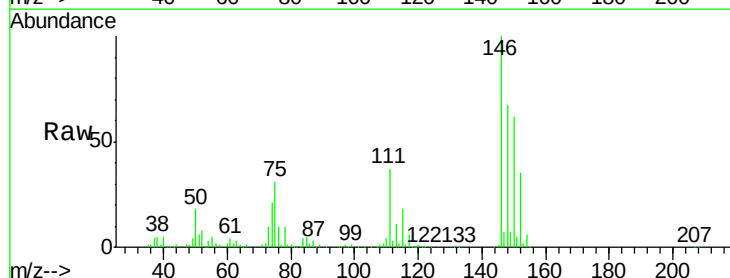
Manual Integrations
 APPROVED

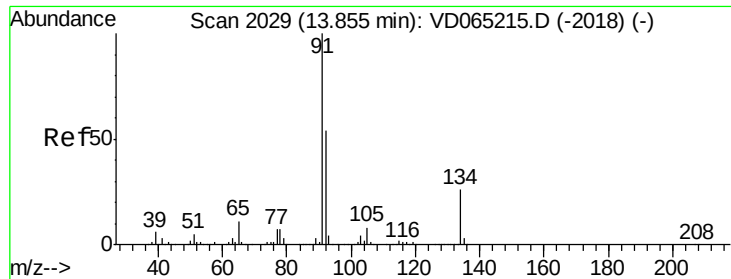
MMDadoda
 3/4/2020 2:01:24 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.421 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	18.4	55.2
148	66.8	32.1	96.5





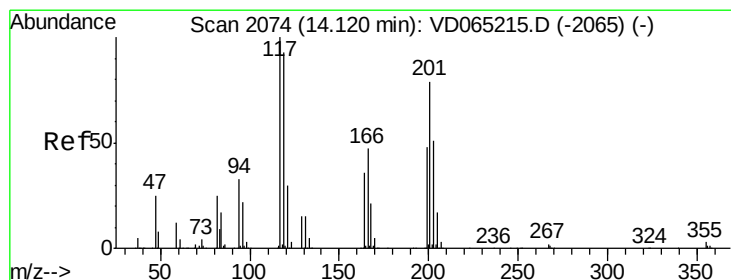
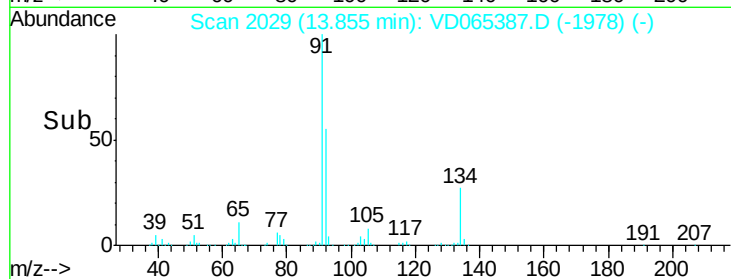
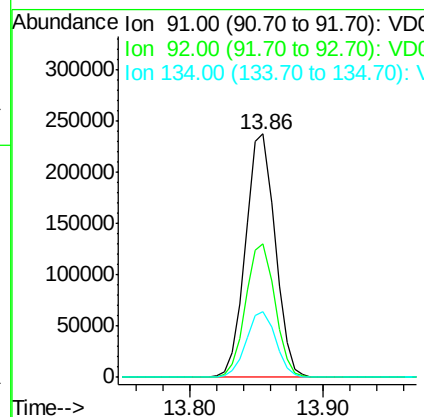
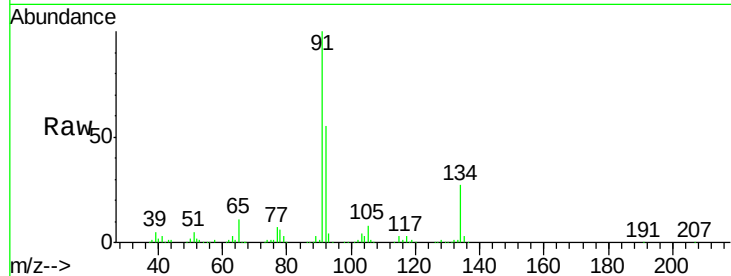
#89
n-Butylbenzene
Concen: 21.223 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.0	80.8
134	26.8	13.5	40.4

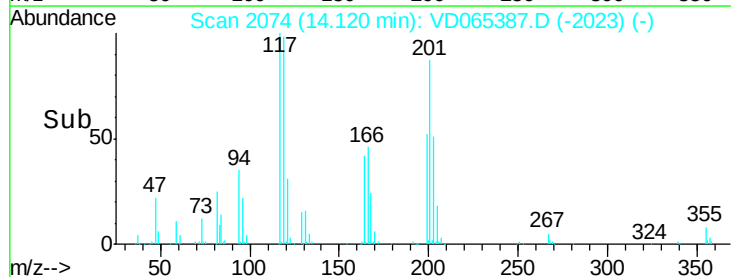
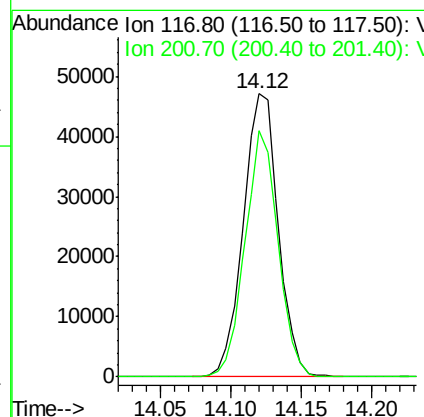
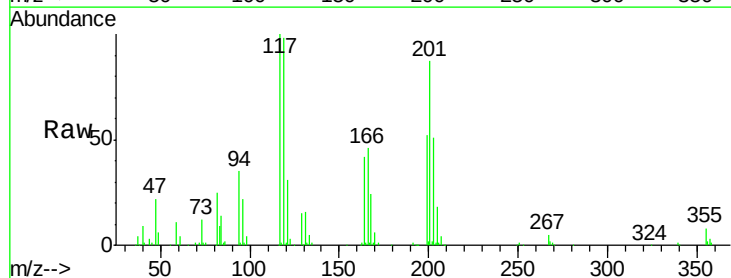
Manual Integrations
APPROVED

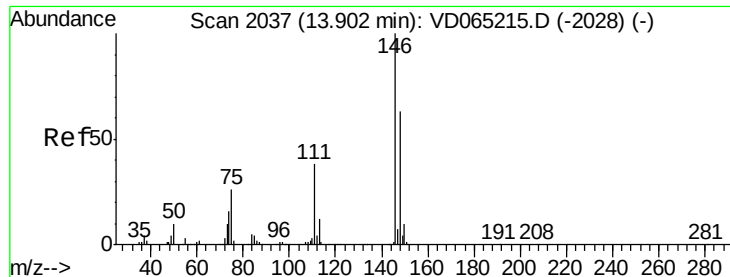
MMDadoda
3/4/2020 2:01:24 PM



#90
Hexachloroethane
Concen: 21.691 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.3	41.3	124.1





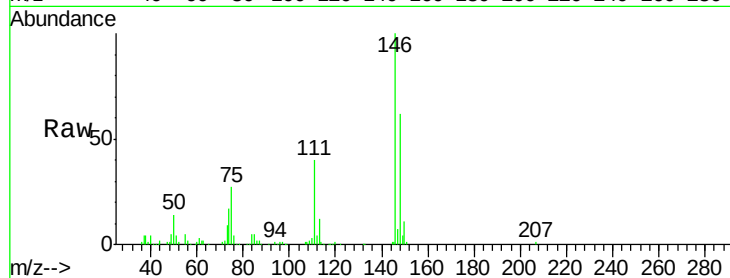
#91
 1,2-Dichlorobenzene
 Concen: 21.589 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBSD01

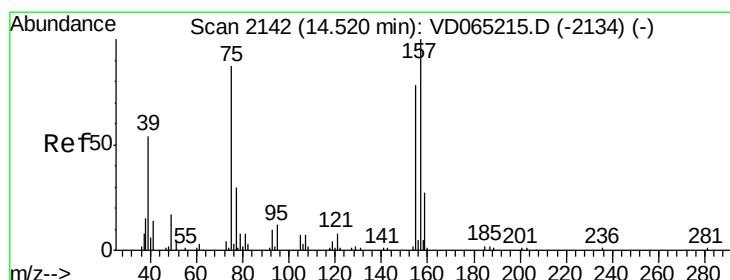
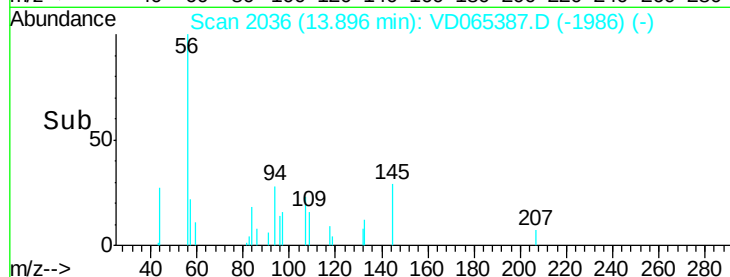
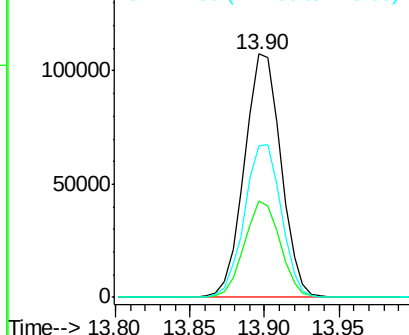
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.7	59.0
148	63.2	32.0	96.2

Manual Integrations
 APPROVED

MMDadoda
 3/4/2020 2:01:24 PM

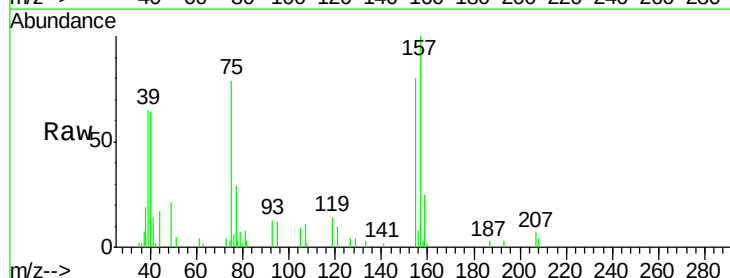


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

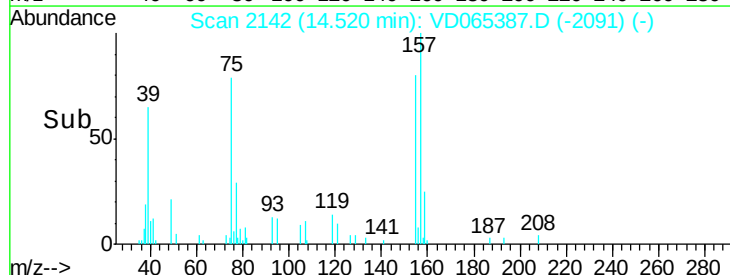
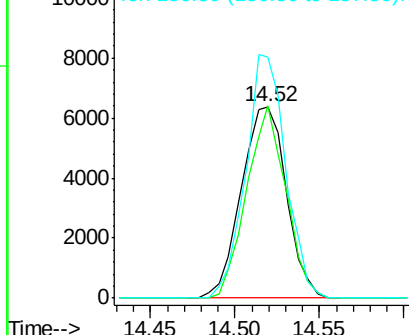


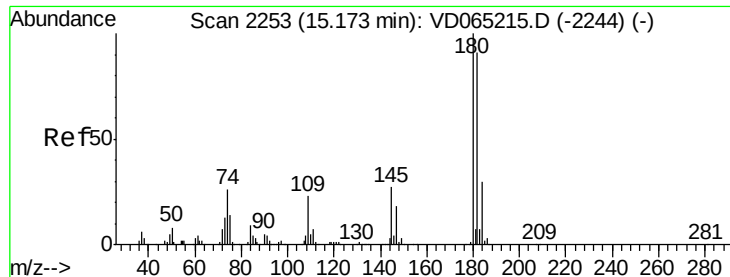
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.831 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.3	42.3	126.9
157	113.5	56.7	170.1



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





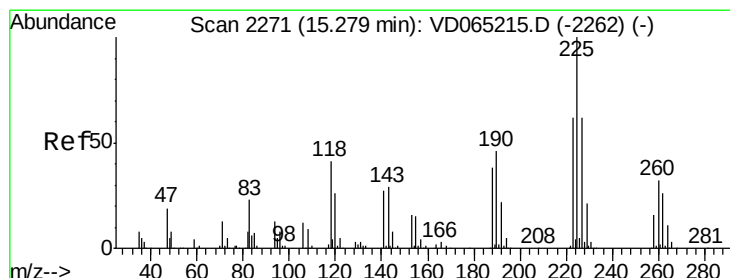
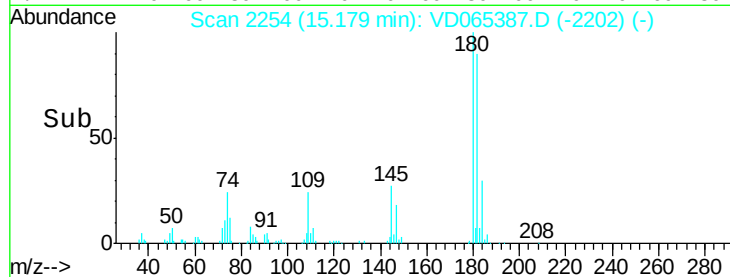
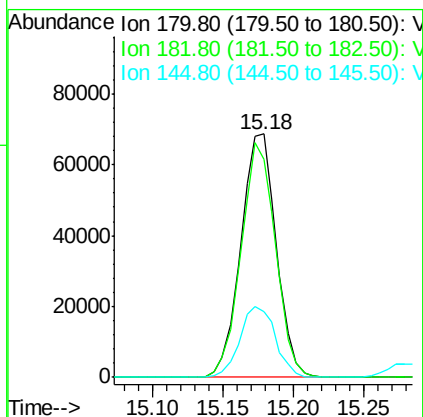
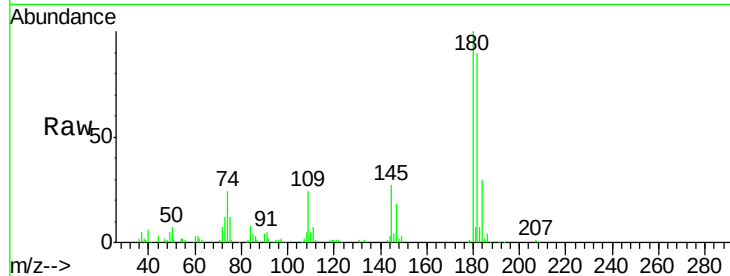
#93
 1,2,4-Trichlorobenzene
 Concen: 21.905 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.01 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0303SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	120678		
182	93.8	46.9	140.6	
145	29.3	13.9	41.7	

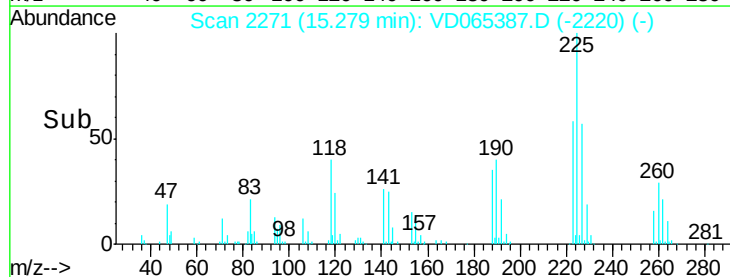
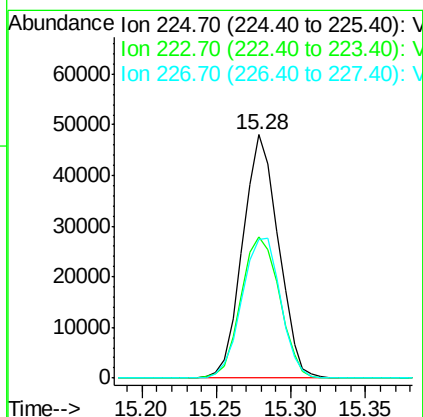
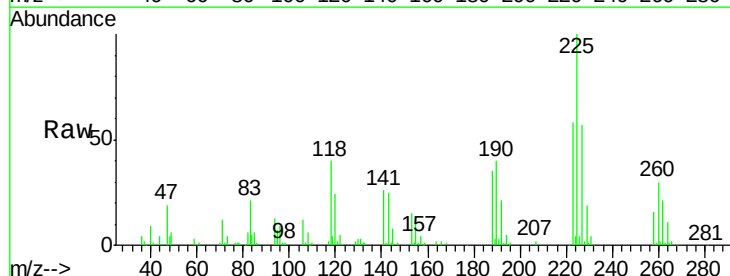
Manual Integrations
 APPROVED

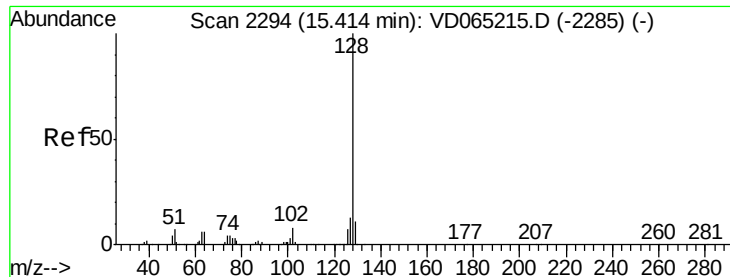
MMDadoda
 3/4/2020 2:01:24 PM



#94
 Hexachlorobutadiene
 Concen: 22.520 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VD065387.D
 Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	79588		
223	62.8	31.4	94.2	
227	62.1	31.7	95.1	





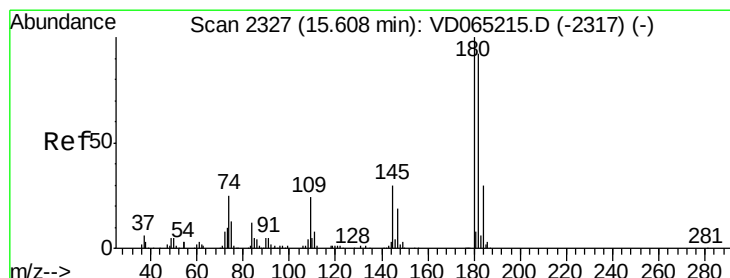
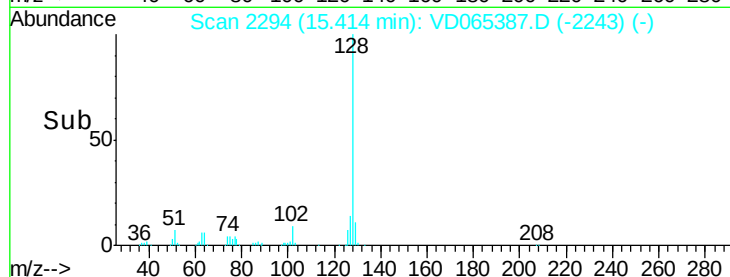
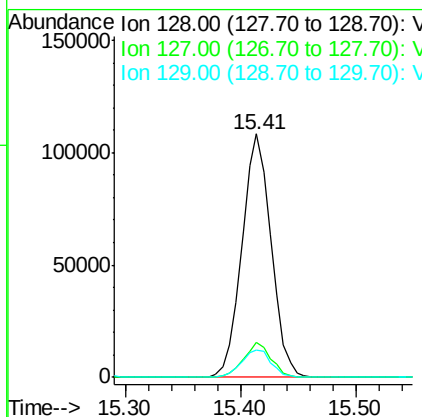
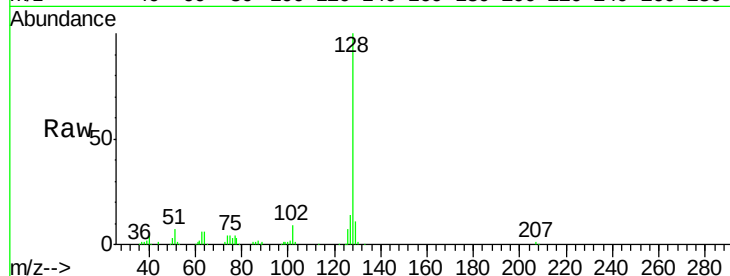
#95
Naphthalene
Concen: 21.229 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0303SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	190126		
127	13.5	10.3	15.5	
129	11.7	8.8	13.2	

Manual Integrations
APPROVED

MMDadoda
3/4/2020 2:01:24 PM



#96
1,2,3-Trichlorobenzene
Concen: 22.058 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. -0.00 min
Lab File: VD065387.D
Acq: 03 Mar 2020 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	106131		
182	95.0	46.9	140.6	
145	31.7	15.4	46.1	

