

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012420\
 Data File : VD064939.D
 Acq On : 24 Jan 2020 13:19
 Operator : VA/SY
 Sample : VD0124SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/27/2020 12:03:11 PM

Quant Time: Jan 25 02:59:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	428488	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	649456	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	573393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	277699	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	213981	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	
35) Dibromofluoromethane	7.92	113	207635	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	
50) Toluene-d8	10.34	98	806959	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
62) 4-Bromofluorobenzene	12.64	95	246326	51.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	66634	20.642	ug/l	93
3) Chloromethane	2.21	50	102442	21.653	ug/l	97
4) Vinyl Chloride	2.35	62	114929	21.151	ug/l	98
5) Bromomethane	2.76	94	83715	22.903	ug/l	92
6) Chloroethane	2.92	64	76897	21.465	ug/l	97
7) Trichlorofluoromethane	3.27	101	176920	21.082	ug/l	99
8) Diethyl Ether	3.70	74	39181	20.682	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.08	101	81900	20.977	ug/l	98
10) Methyl Iodide	4.29	142	82849	19.991	ug/l	99
11) Tert butyl alcohol	5.24	59	23028	101.388	ug/l #	93
12) 1,1-Dichloroethene	4.06	96	77462	20.768	ug/l	91
13) Acrolein	3.93	56	29302	102.912	ug/l	97
14) Allyl chloride	4.71	41	125422	21.083	ug/l	100
15) Acrylonitrile	5.43	53	85390	104.084	ug/l	99
16) Acetone	4.17	43	81751	84.168	ug/l	98
17) Carbon Disulfide	4.40	76	257021	20.938	ug/l	98
18) Methyl Acetate	4.72	43	40677	21.131	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	172691	20.721	ug/l	94
20) Methylene Chloride	4.96	84	97475	20.630	ug/l	93
21) trans-1,2-Dichloroethene	5.47	96	90904	21.154	ug/l	94
22) Diisopropyl ether	6.37	45	251197	21.188	ug/l	96
23) Vinyl Acetate	6.31	43	704045	101.429	ug/l	100
24) 1,1-Dichloroethane	6.26	63	155478	21.360	ug/l	98
25) 2-Butanone	7.22	43	107785	97.068	ug/l	97
26) 2,2-Dichloropropane	7.21	77	136531	20.679	ug/l	98
27) cis-1,2-Dichloroethene	7.21	96	96683	21.079	ug/l	99
28) Bromochloromethane	7.55	49	51642	17.740	ug/l	98
29) Tetrahydrofuran	7.57	42	69310	101.164	ug/l	98
30) Chloroform	7.71	83	155958	20.727	ug/l	100
31) Cyclohexane	7.98	56	144012	20.111	ug/l	93
32) 1,1,1-Trichloroethane	7.90	97	145557	20.794	ug/l	99
36) 1,1-Dichloropropene	8.11	75	127009	20.281	ug/l	99
37) Ethyl Acetate	7.30	43	50135	19.381	ug/l	100
38) Carbon Tetrachloride	8.10	117	131600	19.881	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012420\
 Data File : VD064939.D
 Acq On : 24 Jan 2020 13:19
 Operator : VA/SY
 Sample : VD0124SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0124SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/27/2020 12:03:11 PM

Quant Time: Jan 25 02:59:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	143999	19.667	ug/l	95
40) Benzene	8.35	78	352931	20.462	ug/l	96
41) Methacrylonitrile	7.53	41	27810	19.957	ug/l	95
42) 1,2-Dichloroethane	8.43	62	106373	20.704	ug/l	97
43) Isopropyl Acetate	8.46	43	95810	19.498	ug/l	99
44) Trichloroethene	9.11	130	98000	20.302	ug/l	92
45) 1,2-Dichloropropane	9.39	63	85572	20.465	ug/l	95
46) Dibromomethane	9.48	93	45490	19.927	ug/l	98
47) Bromodichloromethane	9.67	83	122534	20.628	ug/l	97
48) Methyl methacrylate	9.46	41	44165	19.531	ug/l	92
49) 1,4-Dioxane	9.47	88	11268	425.596	ug/l #	96
51) 4-Methyl-2-Pentanone	10.24	43	244040	99.258	ug/l	97
52) Toluene	10.40	92	226608	20.378	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	110456	19.521	ug/l	99
54) cis-1,3-Dichloropropene	10.10	75	135083	20.390	ug/l	98
55) 1,1,2-Trichloroethane	10.81	97	61572	20.024	ug/l	95
56) Ethyl methacrylate	10.67	69	73262	19.924	ug/l	99
57) 1,3-Dichloropropane	10.95	76	106407	20.175	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.94	63	118165	96.728	ug/l	99
59) 2-Hexanone	10.99	43	162121	95.595	ug/l	98
60) Dibromochloromethane	11.14	129	84673	20.602	ug/l	99
61) 1,2-Dibromoethane	11.25	107	59341	20.042	ug/l	97
64) Tetrachloroethene	10.88	164	86502	20.877	ug/l	97
65) Chlorobenzene	11.67	112	237714	20.419	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	90321	20.629	ug/l	99
67) Ethyl Benzene	11.75	91	416948	20.173	ug/l	96
68) m/p-Xylenes	11.86	106	326545	41.034	ug/l	100
69) o-Xylene	12.18	106	145023	20.534	ug/l	98
70) Styrene	12.20	104	255092	20.276	ug/l	99
71) Bromoform	12.37	173	49034	20.147	ug/l #	98
73) Isopropylbenzene	12.48	105	390618	20.580	ug/l	98
74) N-amyl acetate	12.30	43	83992	19.776	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	66131	20.730	ug/l	98
76) 1,2,3-Trichloropropane	12.79	75	34544m	14.987	ug/l	
77) Bromobenzene	12.77	156	98157	21.136	ug/l	99
78) n-propylbenzene	12.83	91	466731	20.677	ug/l	100
79) 2-Chlorotoluene	12.91	91	260883	21.068	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	331495	21.312	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.53	75	22139	20.509	ug/l	98
82) 4-Chlorotoluene	13.01	91	277768	21.152	ug/l	99
83) tert-Butylbenzene	13.23	119	275225	20.851	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	324685	20.606	ug/l	99
85) sec-Butylbenzene	13.41	105	383342	20.511	ug/l	100
86) p-Isopropyltoluene	13.53	119	363183	20.766	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	181880	20.412	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	186474	21.085	ug/l	99
89) n-Butylbenzene	13.85	91	327298	20.507	ug/l	99
90) Hexachloroethane	14.12	117	72000	21.348	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	155380	20.540	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.51	75	10325	20.225	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012420\
Data File : VD064939.D
Acq On : 24 Jan 2020 13:19
Operator : VA/SY
Sample : VD0124SBSD01
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

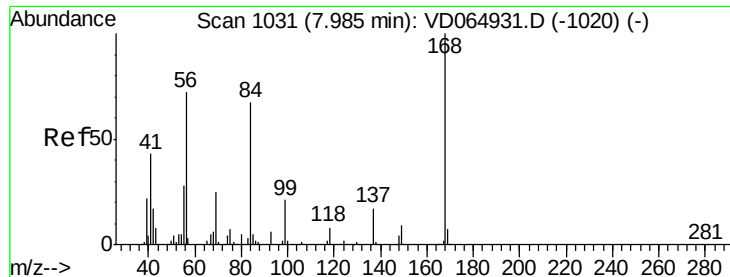
Manual Integrations
APPROVED

MMDadoda
1/27/2020 12:03:11 PM

Quant Time: Jan 25 02:59:45 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	108425	20.718	ug/l	96
94) Hexachlorobutadiene	15.28	225	67844	20.495	ug/l	98
95) Naphthalene	15.41	128	166989	19.771	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	94388	20.801	ug/l	98

(#) = 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: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBSD01

Tot Ion:168 Resp: 428488

Ion Ratio Lower Upper

168 100

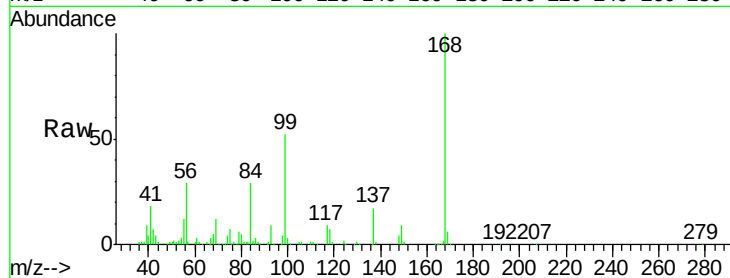
99 52.0 43.3 64.9

Manual Integrations

APPROVED

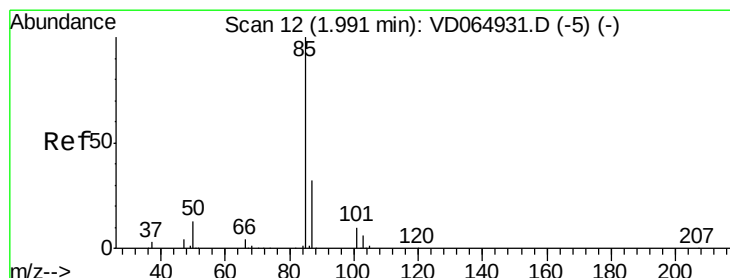
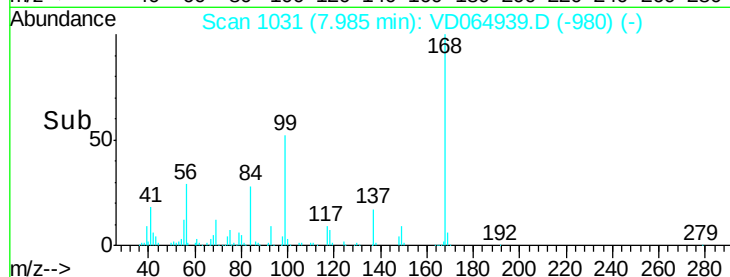
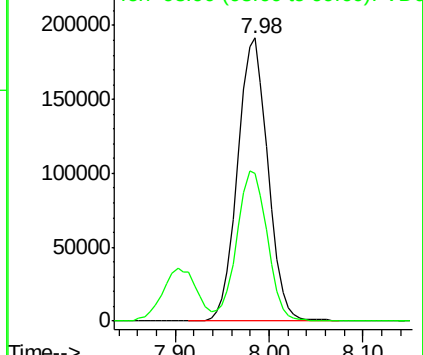
MMDadoda

1/27/2020 12:03:11 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 20.642 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD064939.D

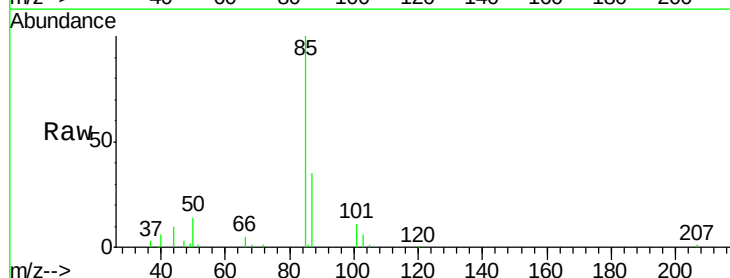
Acq: 24 Jan 2020 13:19

Tgt Ion: 85 Resp: 66634

Ion Ratio Lower Upper

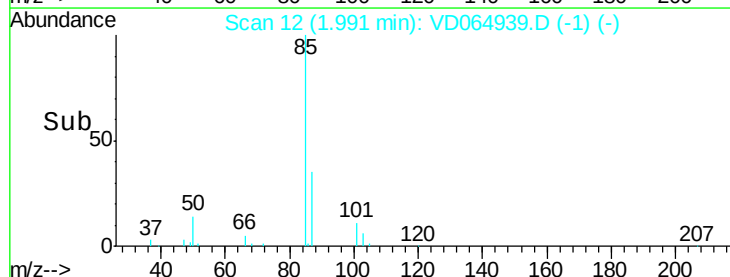
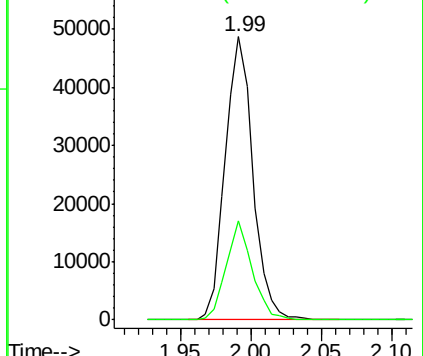
85 100

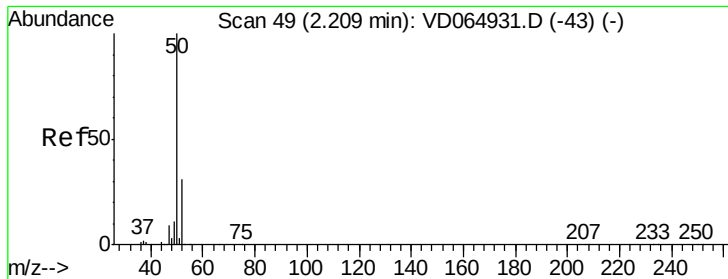
87 35.1 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 21.653 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBS01

Tot Ion: 50 Resp: 102442

Ion Ratio Lower Upper

50 100

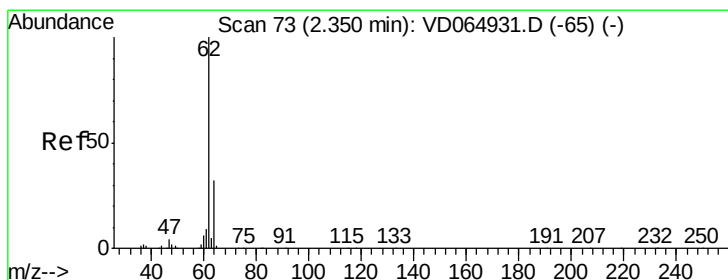
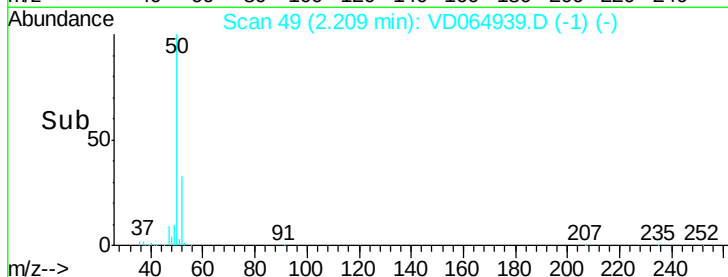
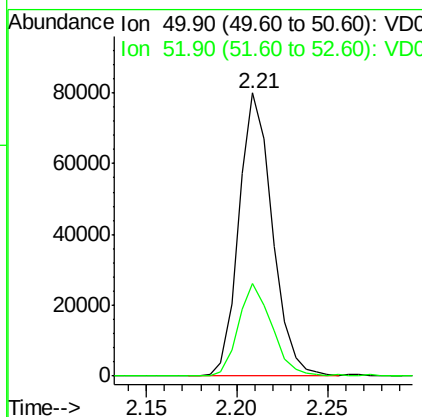
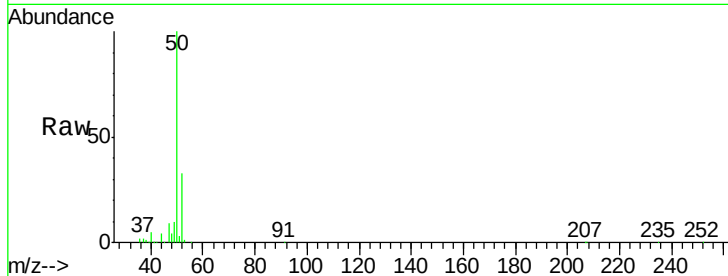
52 32.6 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

1/27/2020 12:03:11 PM



#4

Vinyl Chloride

Concen: 21.151 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD064939.D

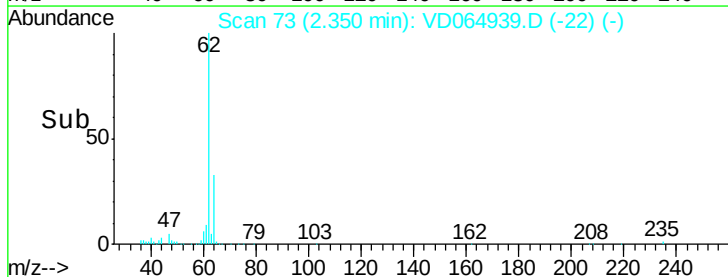
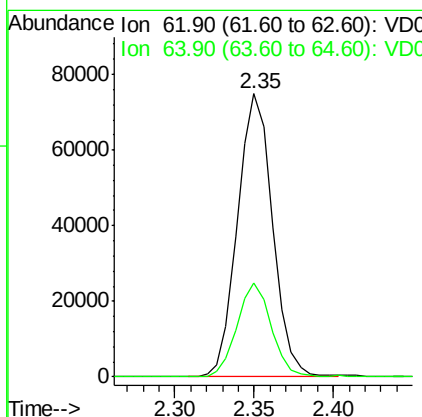
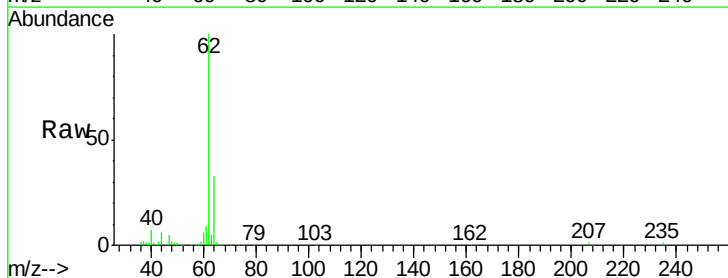
Acq: 24 Jan 2020 13:19

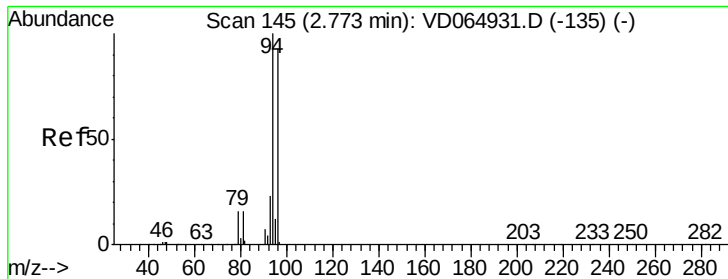
Tgt Ion: 62 Resp: 114929

Ion Ratio Lower Upper

62 100

64 33.1 25.6 38.4





#5

Bromomethane

Concen: 22.903 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.02 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBSD01

Tot Ion: 94 Resp: 83715

Ion Ratio Lower Upper

94 100

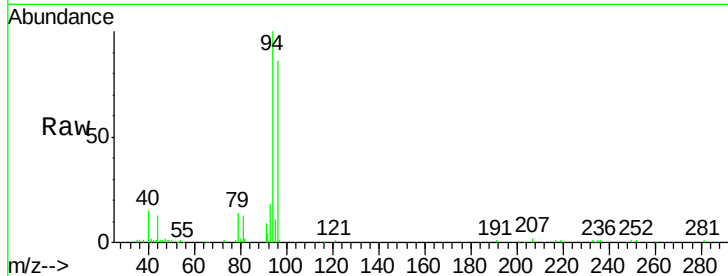
96 85.4 74.6 111.8

Manual Integrations

APPROVED

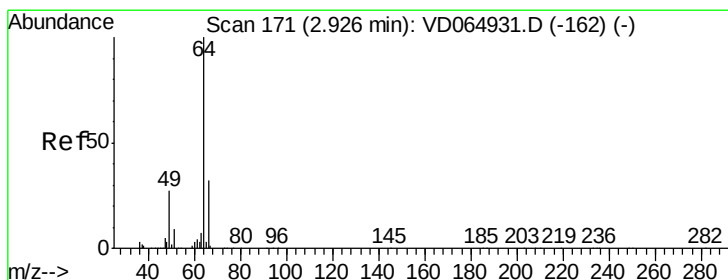
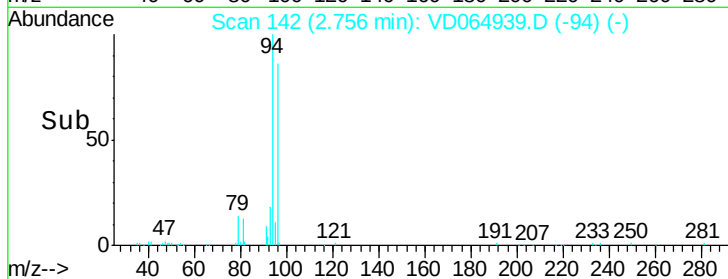
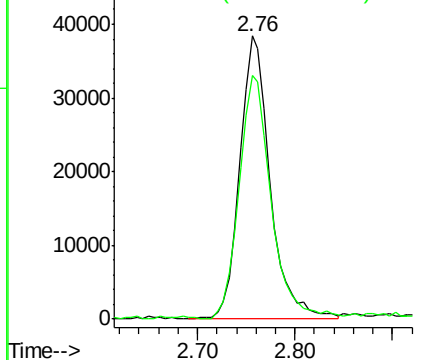
MMDadoda

1/27/2020 12:03:11 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 21.465 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD064939.D

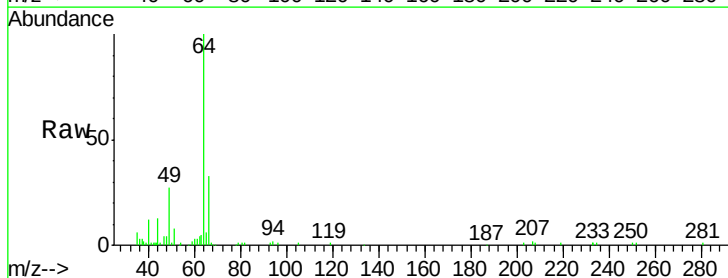
Acq: 24 Jan 2020 13:19

Tgt Ion: 64 Resp: 76897

Ion Ratio Lower Upper

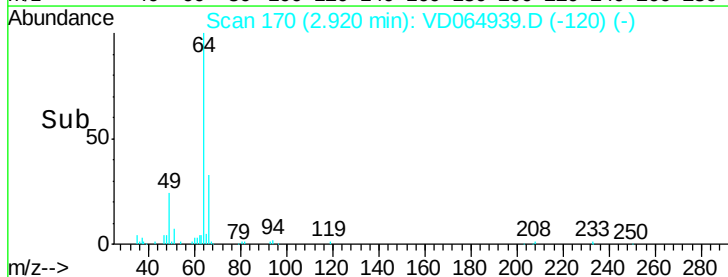
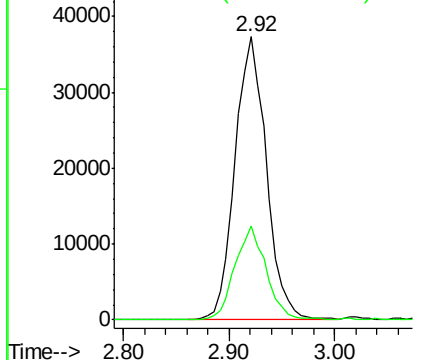
64 100

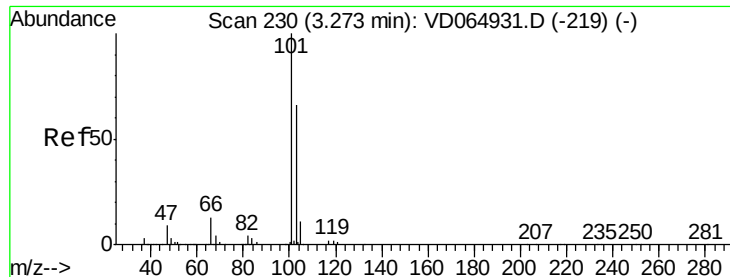
66 33.2 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

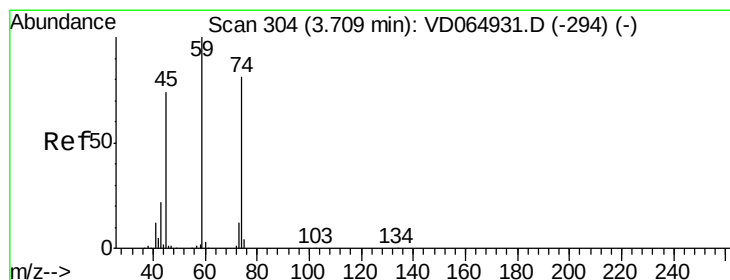
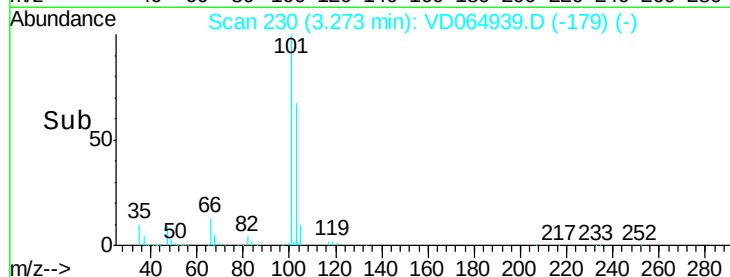
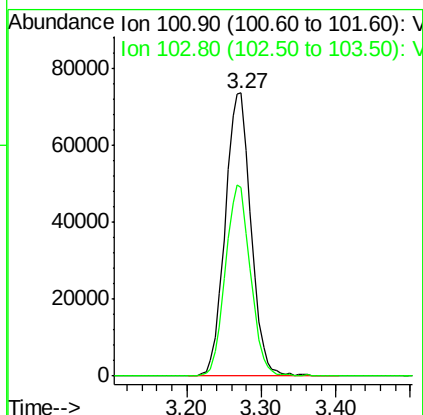
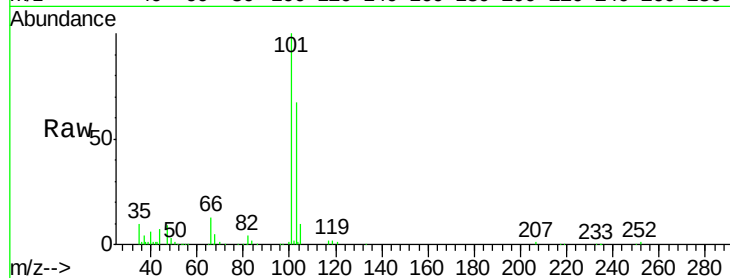
Trichlorofluoromethane
Concen: 21.082 ug/l
RT: 3.27 min Scan# 230
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	52.5	78.7

Manual Integrations
APPROVED

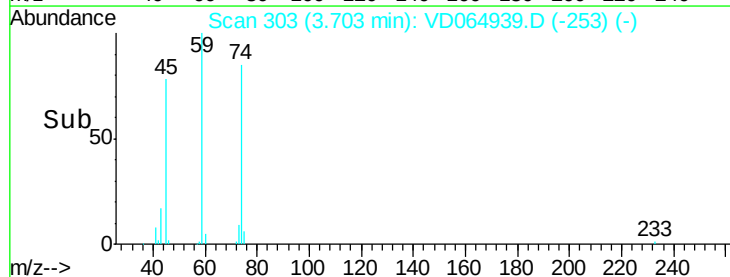
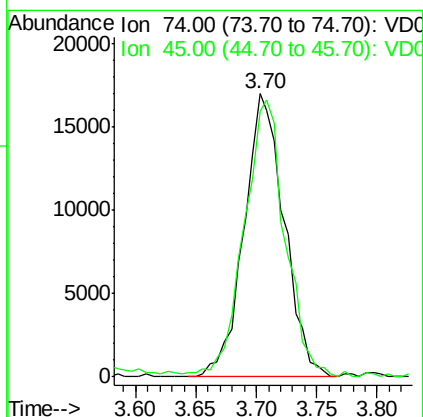
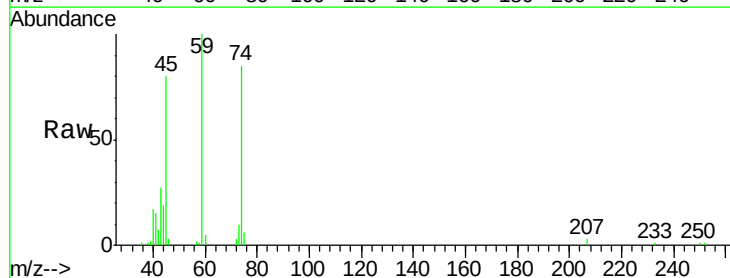
MMDadoda
1/27/2020 12:03:11 PM

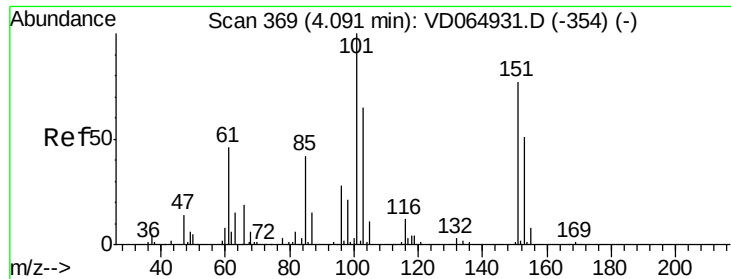


#8

Diethyl Ether
Concen: 20.682 ug/l
RT: 3.70 min Scan# 303
Delta R.T. -0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.5	48.5	145.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.977 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

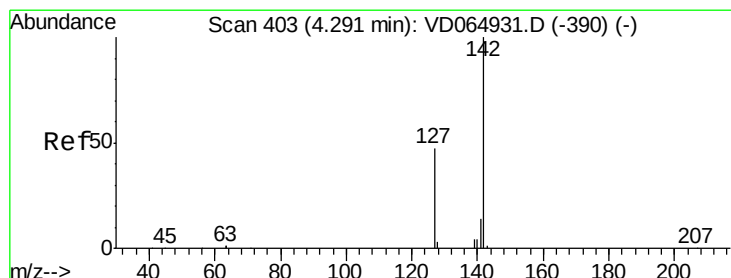
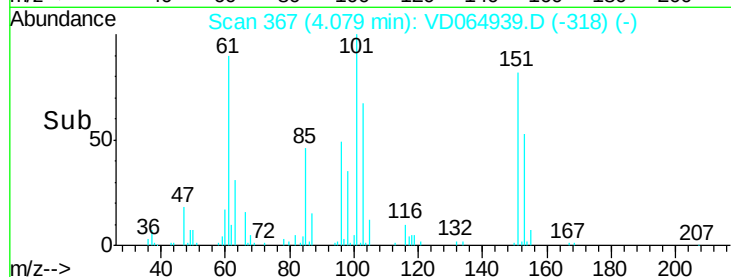
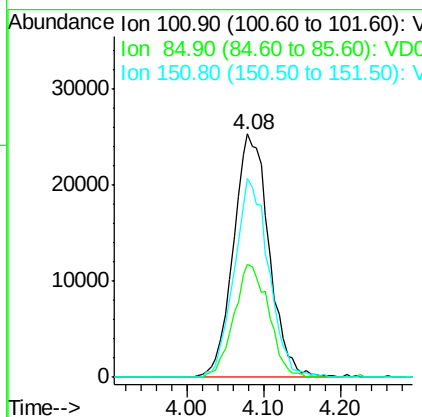
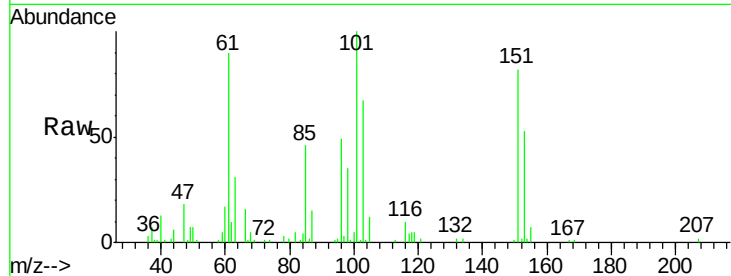
ClientSampleId :

VD0124SBS01

Tot Ion:	101	Resp:	81900
Ion Ratio	Lower	Upper	
101	100		
85	45.3	35.0	52.4
151	79.4	64.6	96.8

Manual Integrations
APPROVED

MMDadoda
1/27/2020 12:03:11 PM



#10

Methyl Iodide

Concen: 19.991 ug/l

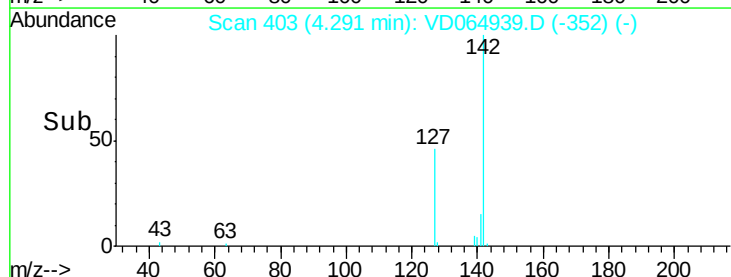
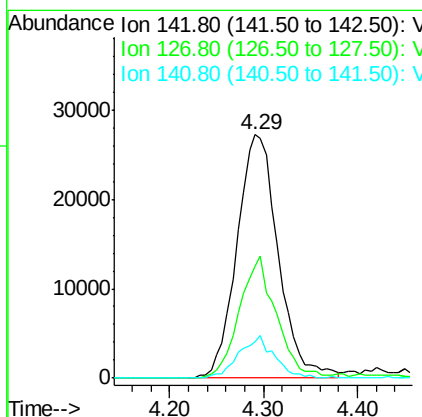
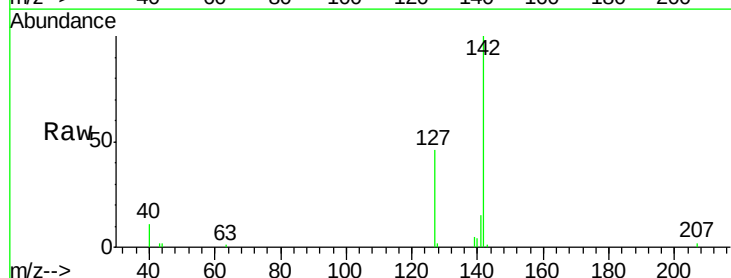
RT: 4.29 min Scan# 403

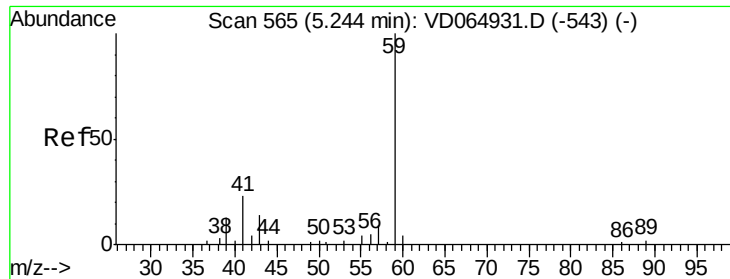
Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Tgt Ion:	142	Resp:	82849
Ion Ratio	Lower	Upper	
142	100		
127	44.9	36.2	54.2
141	14.9	11.6	17.4





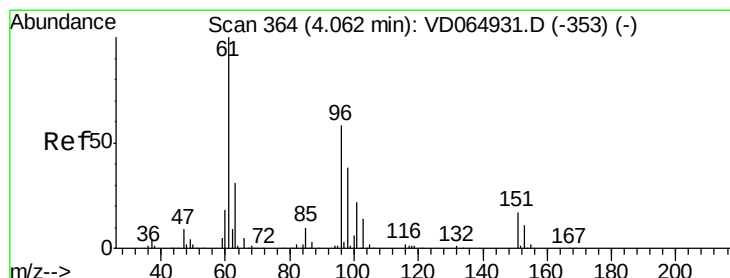
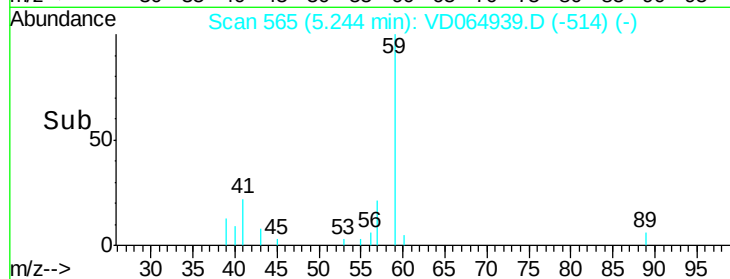
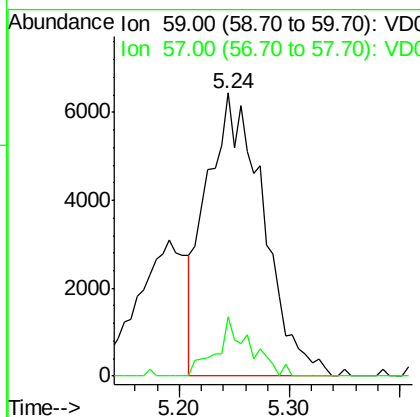
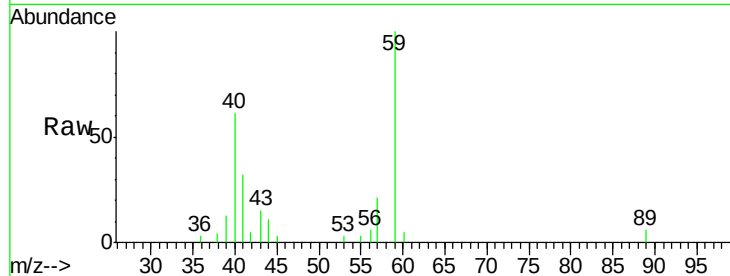
#11
Tert butyl alcohol
Concen: 101.388 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

Tot Ion: 59 Resp: 23028
Ion Ratio Lower Upper
59 100
57 12.3 7.7 11.5#

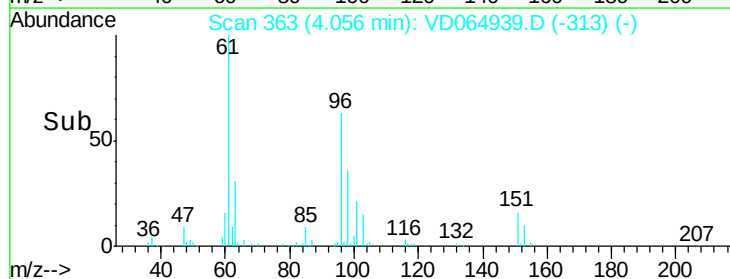
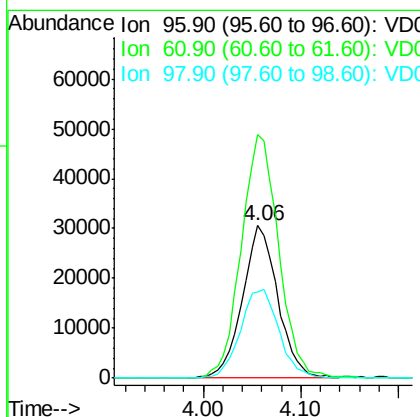
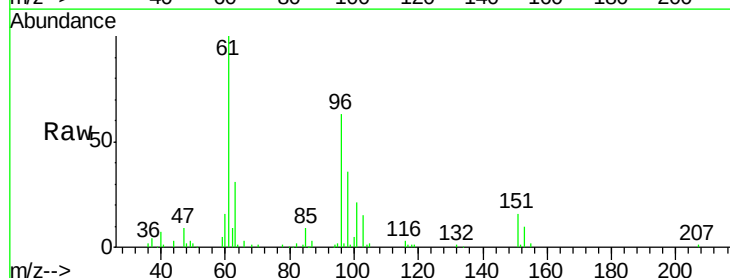
Manual Integrations
APPROVED

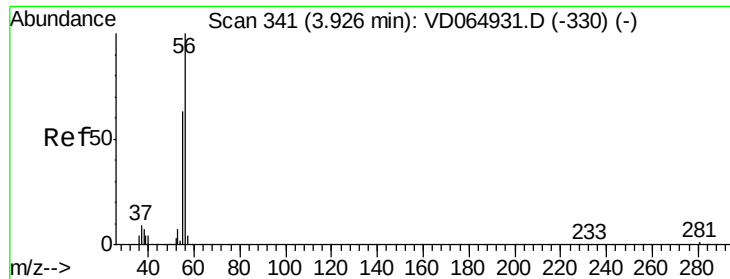
MMDadoda
1/27/2020 12:03:11 PM



#12
1,1-Dichloroethene
Concen: 20.768 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion: 96 Resp: 77462
Ion Ratio Lower Upper
96 100
61 159.8 137.0 205.4
98 56.9 52.1 78.1





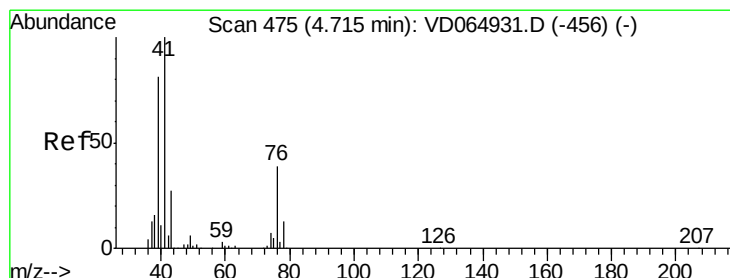
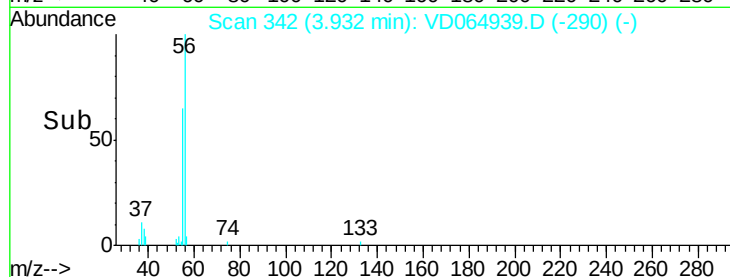
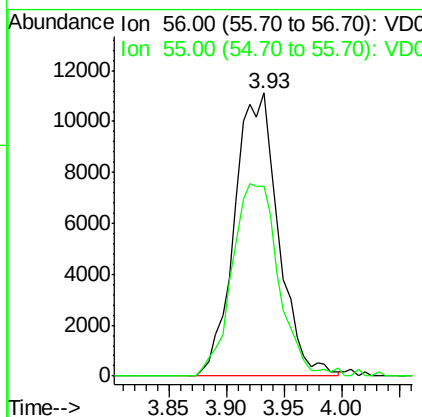
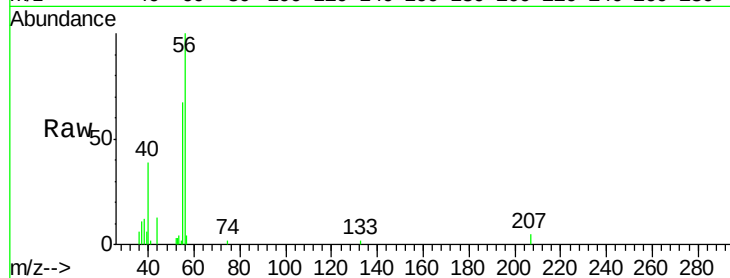
#13
Acrolein
Concen: 102.912 ug/l
RT: 3.93 min Scan# 342
Delta R.T. 0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

Tot Ion	56	Resp	29302
Ion Ratio	100	Lower	Upper
55	71.7	59.7	89.5

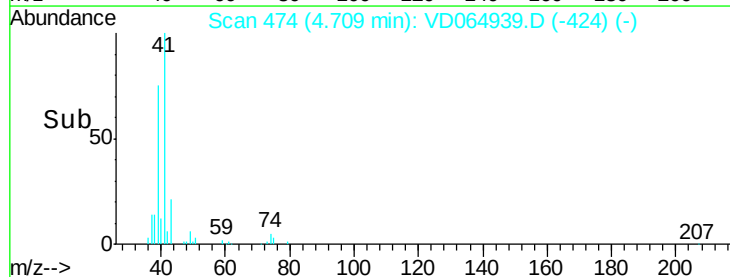
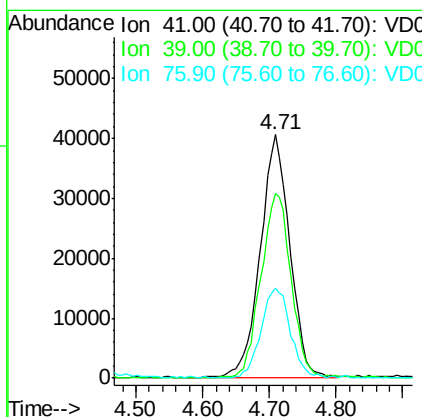
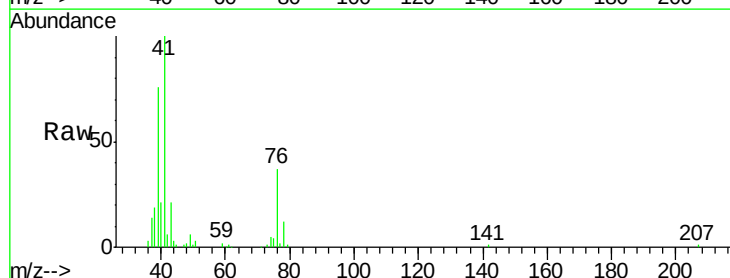
Manual Integrations
APPROVED

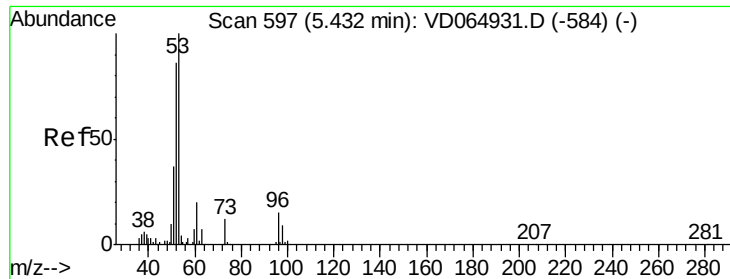
MMDadoda
1/27/2020 12:03:11 PM



#14
Allyl chloride
Concen: 21.083 ug/l
RT: 4.71 min Scan# 474
Delta R.T. -0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	41	Resp	125422
Ion Ratio	100	Lower	Upper
39	77.8	62.0	93.0
76	36.5	29.3	43.9





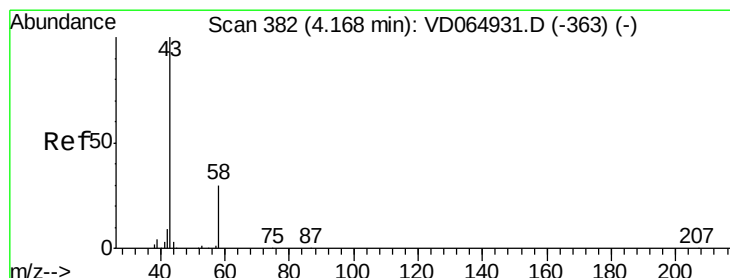
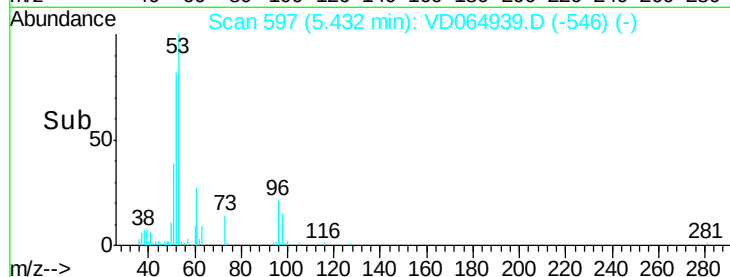
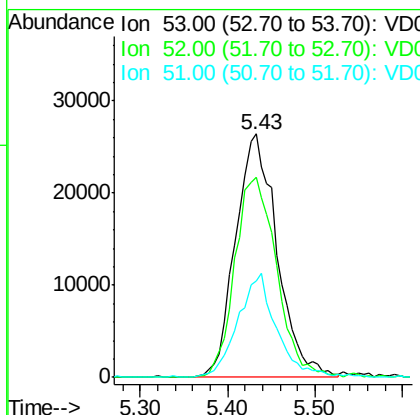
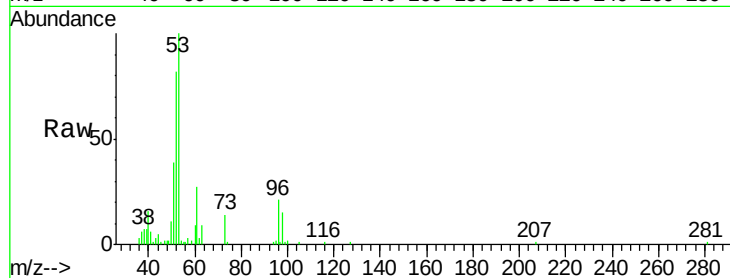
#15
 Acrylonitrile
 Concen: 104.084 ug/l
 RT: 5.43 min Scan# 597
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBS001

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.7	100.1
51	39.6	31.1	46.7

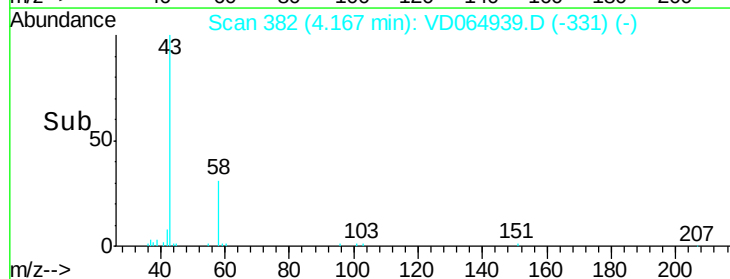
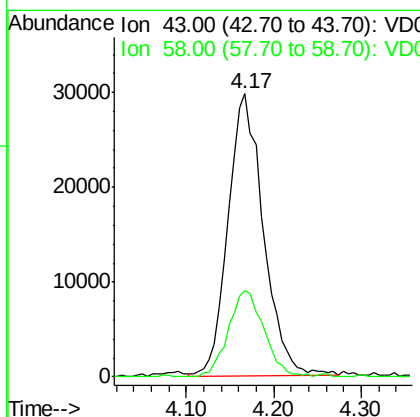
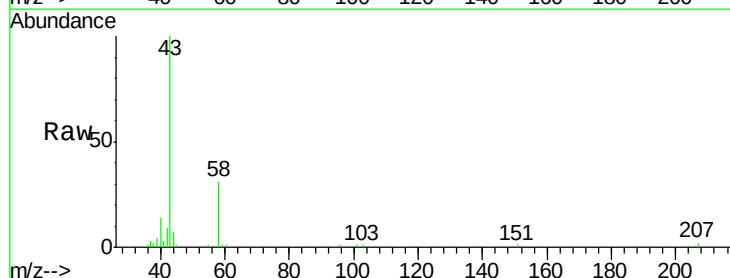
Manual Integrations
 APPROVED

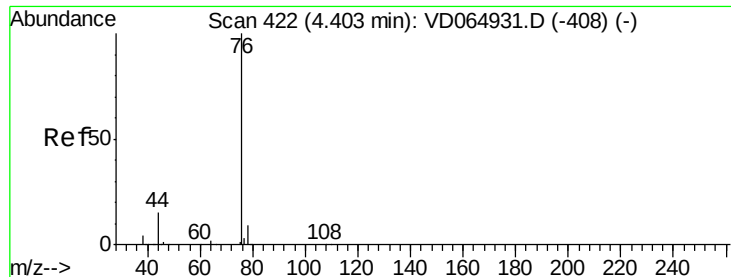
MMDadoda
 1/27/2020 12:03:11 PM



#16
 Acetone
 Concen: 84.168 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.8	23.8	35.8





#17

Carbon Disulfide

Concen: 20.938 ug/l

RT: 4.40 min Scan# 422

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBSD01

Tot Ion: 76 Resp: 257021

Ion Ratio Lower Upper

76 100

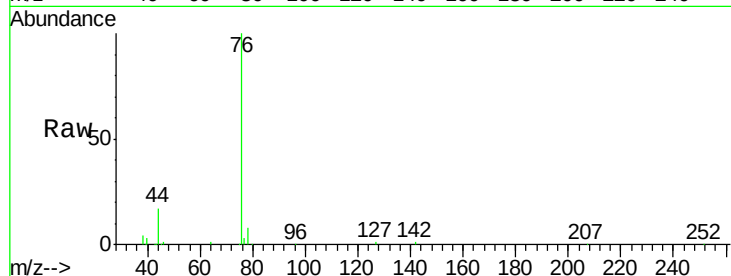
78 8.1 7.1 10.7

Manual Integrations

APPROVED

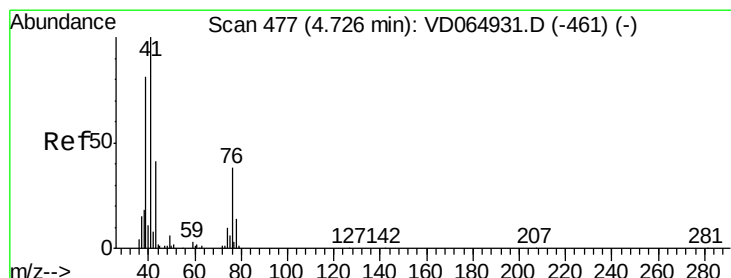
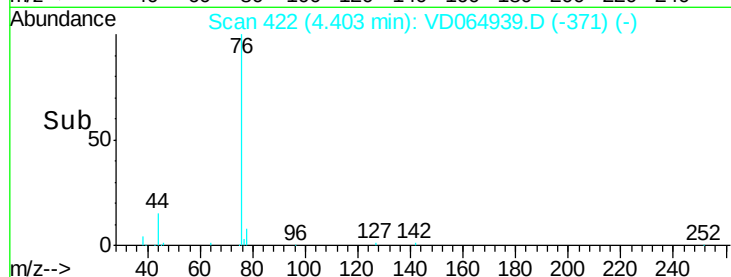
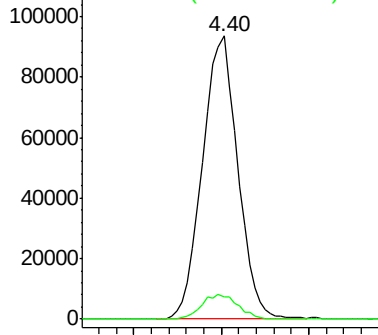
MMDadoda

1/27/2020 12:03:11 PM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 21.131 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD064939.D

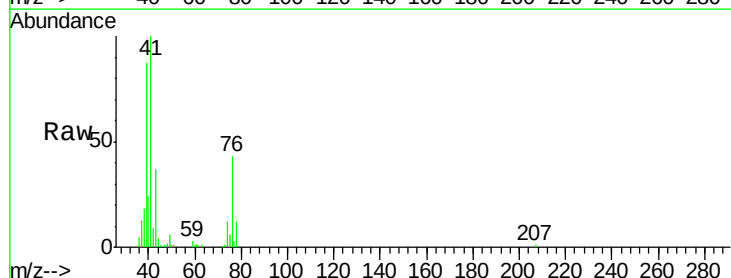
Acq: 24 Jan 2020 13:19

Tgt Ion: 43 Resp: 40677

Ion Ratio Lower Upper

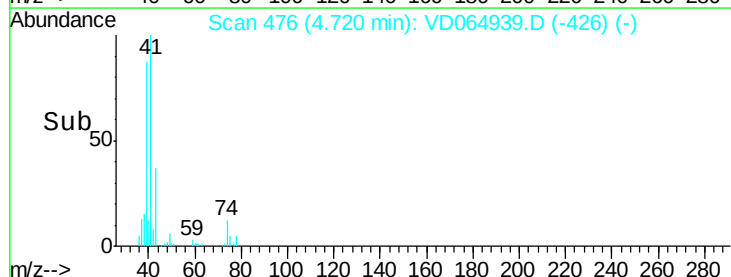
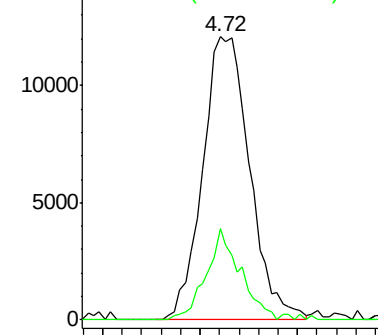
43 100

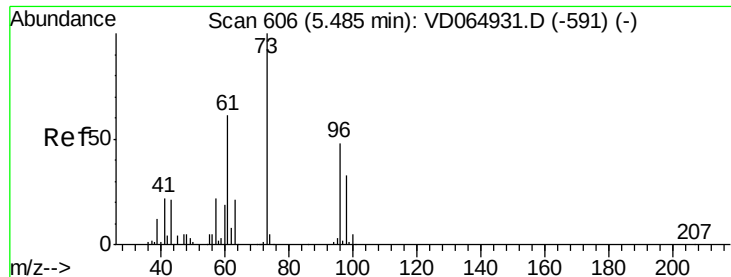
74 23.4 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





#19

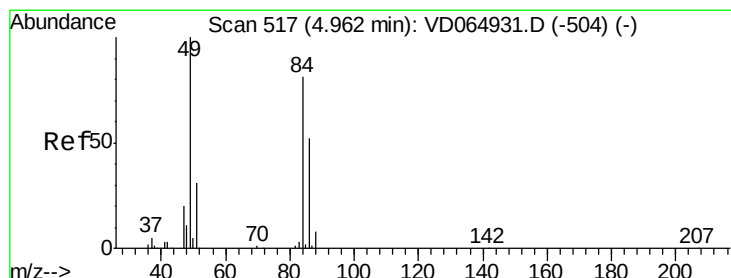
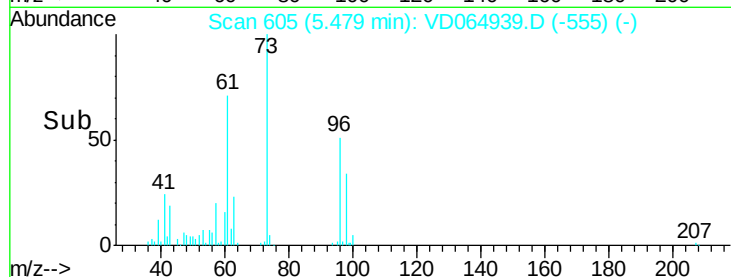
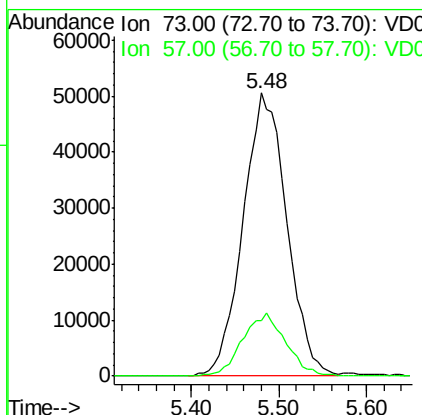
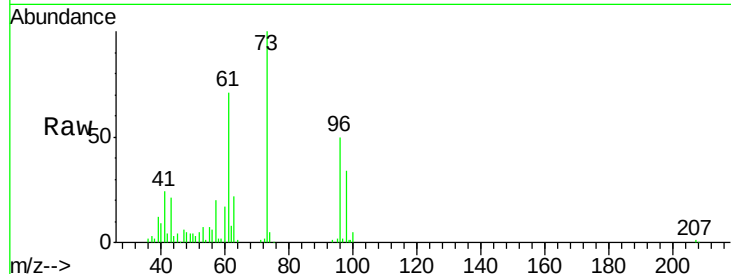
Methyl tert-butyl Ether
 Concen: 20.721 ug/l
 RT: 5.48 min Scan# 605
 Delta R.T. -0.01 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.6	17.9	26.9

Manual Integrations
 APPROVED

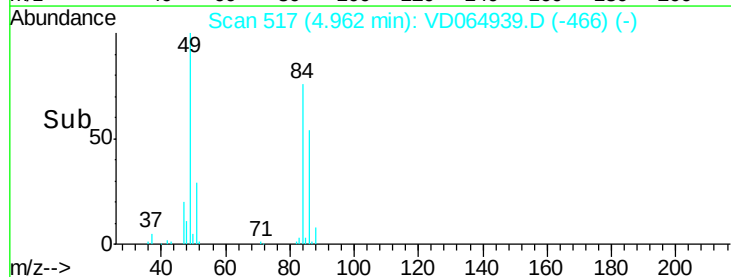
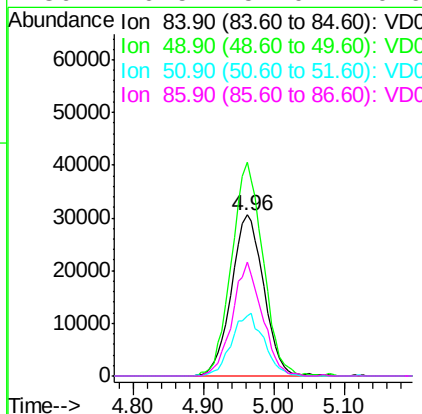
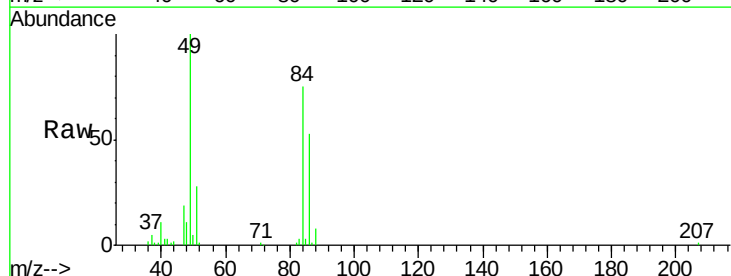
MMDadoda
 1/27/2020 12:03:11 PM

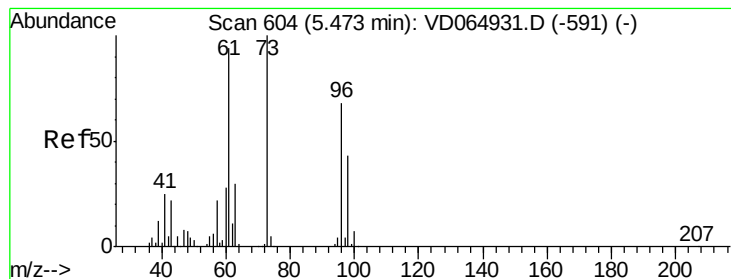


#20

Methylene Chloride
 Concen: 20.630 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
84	100		
49	132.9	98.4	147.6
51	37.8	30.8	46.2
86	70.5	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 21.154 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

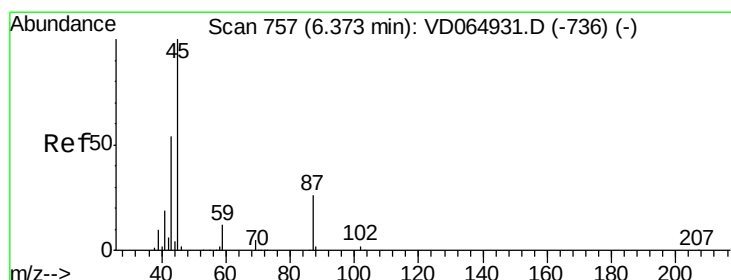
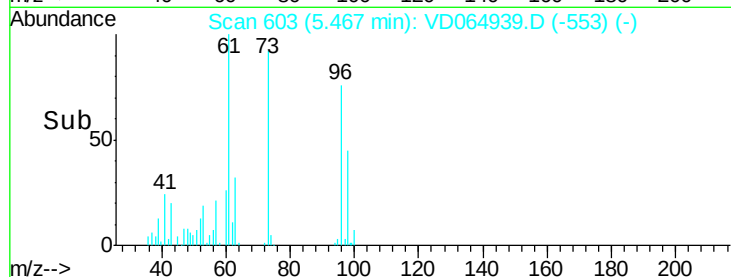
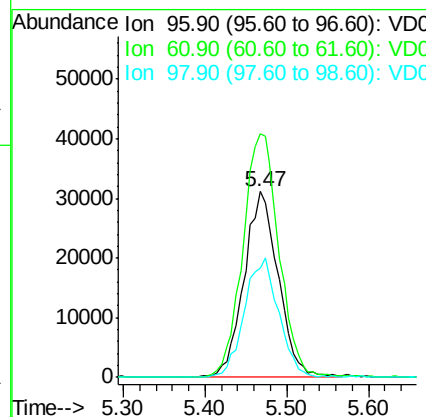
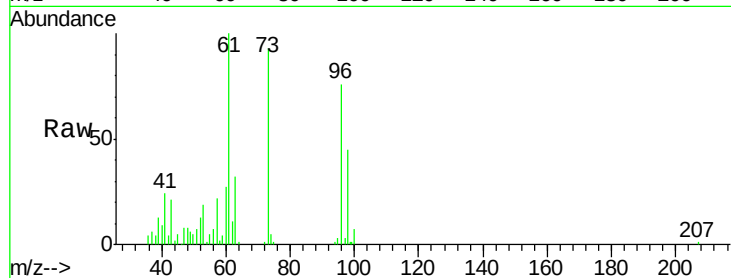
ClientSampleId :

VD0124SBSD01

Tot Ion:	96	Resp:	90904
Ion	Ratio	Lower	Upper
96	100		
61	130.9	110.4	165.6
98	58.9	50.5	75.7

Manual Integrations
APPROVED

MMDadoda
1/27/2020 12:03:11 PM



#22

Diisopropyl ether

Concen: 21.188 ug/l

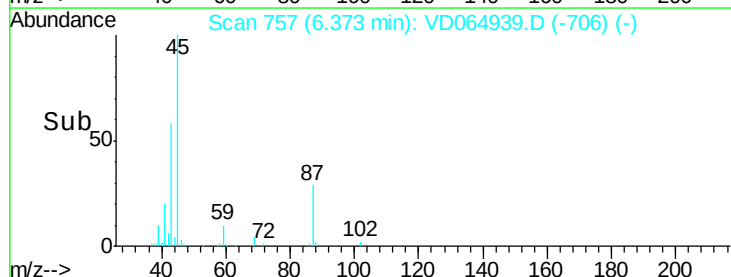
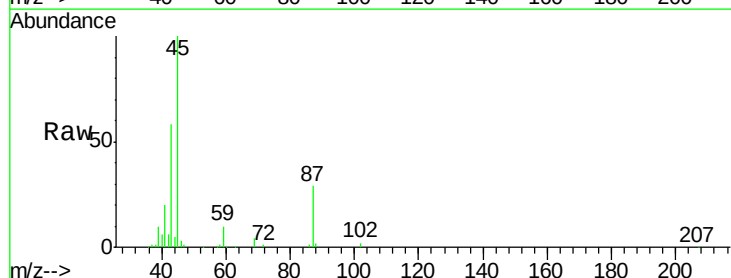
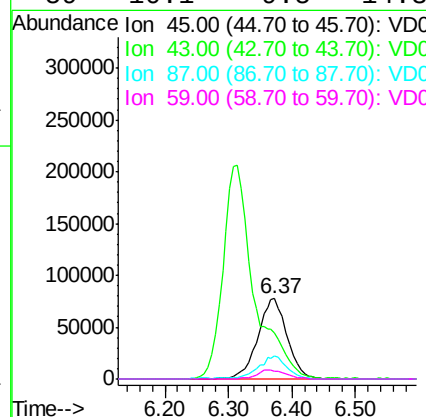
RT: 6.37 min Scan# 757

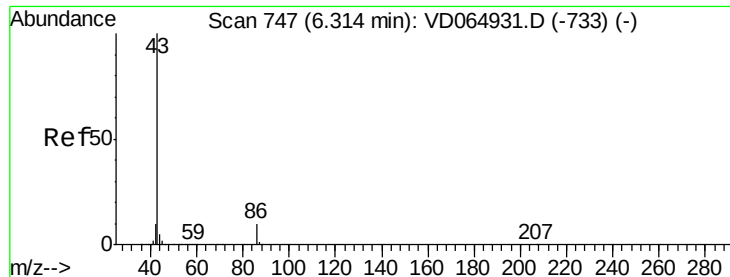
Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Tgt Ion:	45	Resp:	251197
Ion	Ratio	Lower	Upper
45	100		
43	57.1	43.1	64.7
87	28.9	21.4	32.2
59	10.1	9.5	14.3





#23

Vinyl Acetate

Concen: 101.429 ug/l

RT: 6.31 min Scan# 747

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBS01

Tot Ion: 43 Resp: 704045

Ion Ratio Lower Upper

43 100

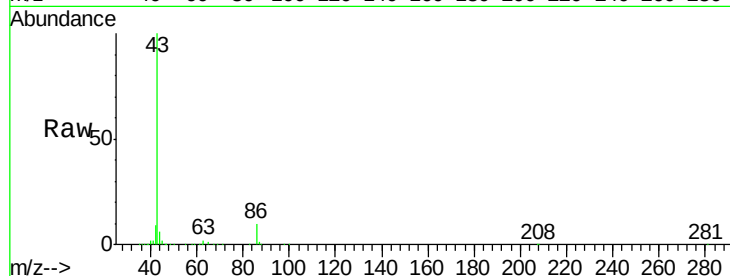
86 10.3 8.3 12.5

Manual Integrations

APPROVED

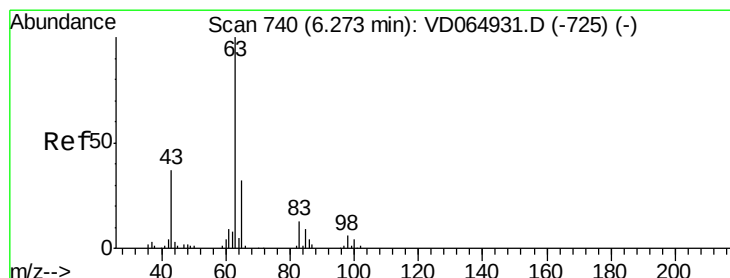
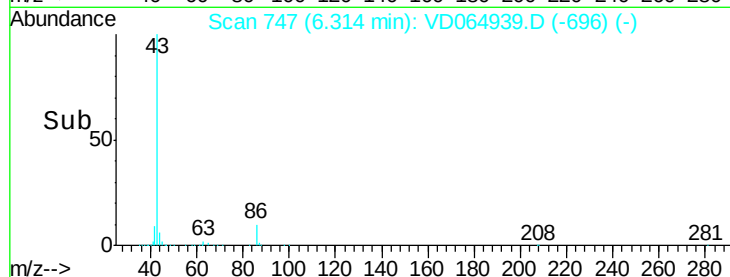
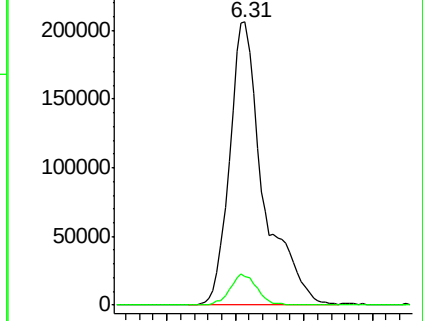
MMDadoda

1/27/2020 12:03:11 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 21.360 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

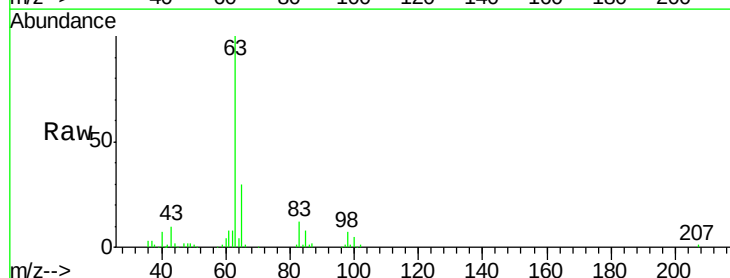
Tgt Ion: 63 Resp: 155478

Ion Ratio Lower Upper

63 100

98 7.1 3.1 9.3

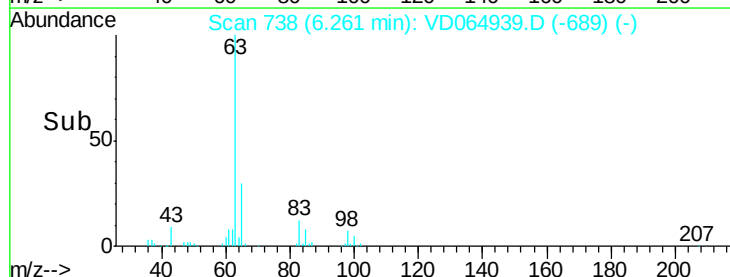
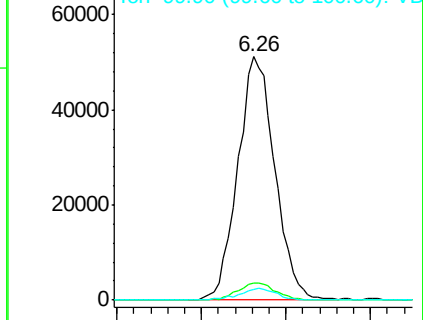
100 4.6 2.3 6.8

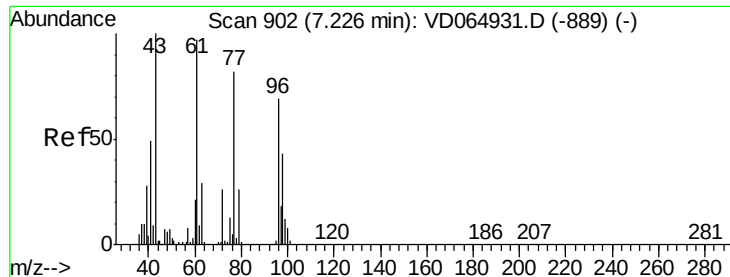


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 97.068 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBSD01

Tot Ion: 43 Resp: 107785

Ion Ratio Lower Upper

43 100

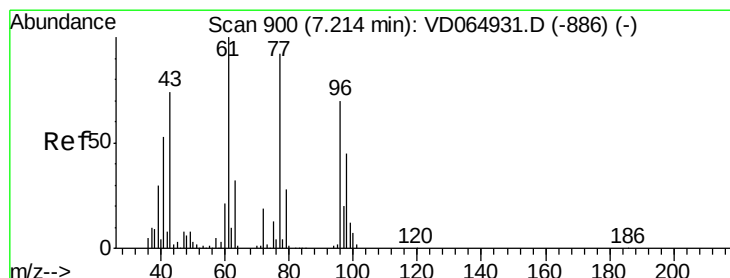
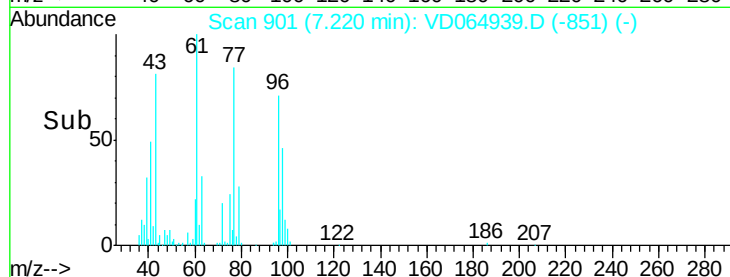
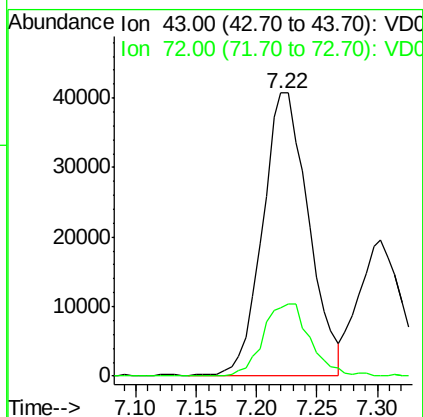
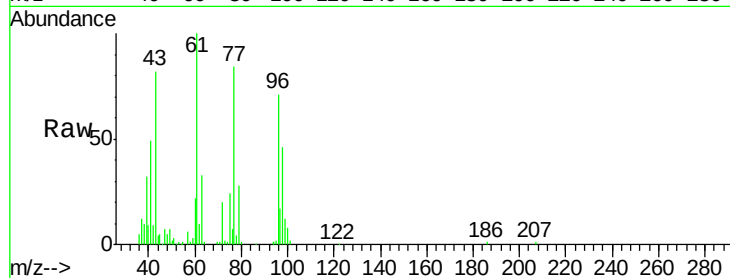
72 24.0 20.6 31.0

Manual Integrations

APPROVED

MMDadoda

1/27/2020 12:03:11 PM



#26

2,2-Dichloropropane

Concen: 20.679 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD064939.D

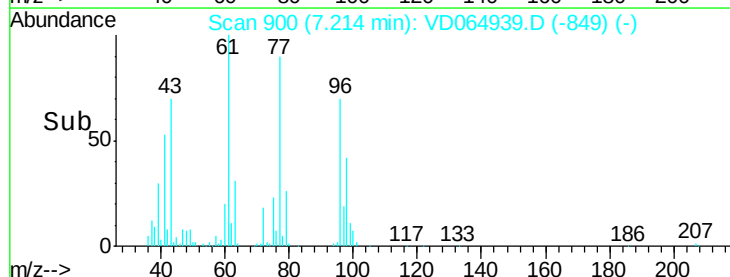
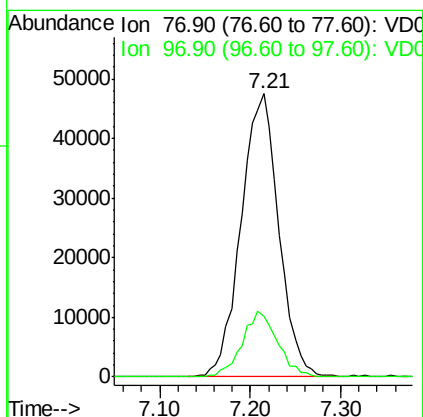
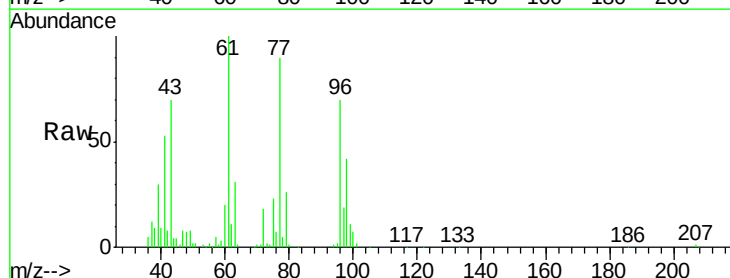
Acq: 24 Jan 2020 13:19

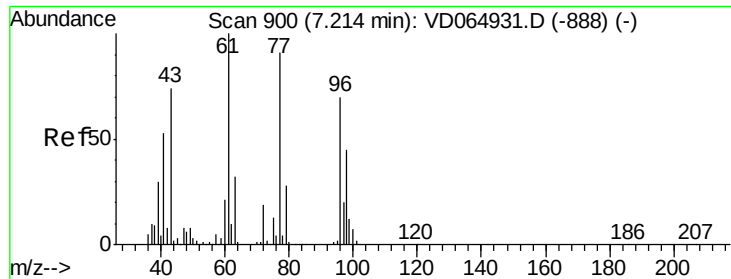
Tgt Ion: 77 Resp: 136531

Ion Ratio Lower Upper

77 100

97 21.7 11.4 34.2





#27

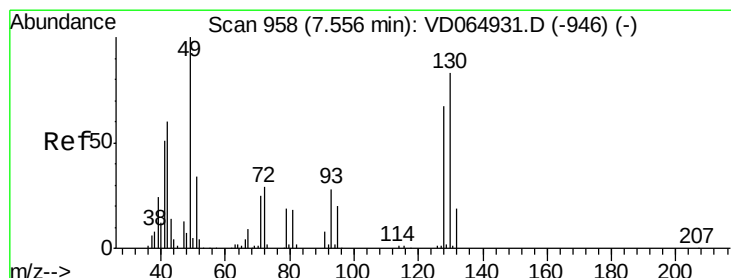
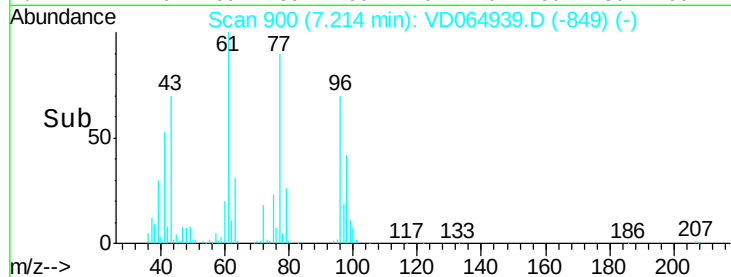
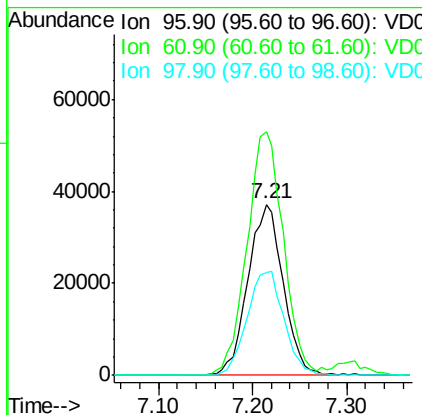
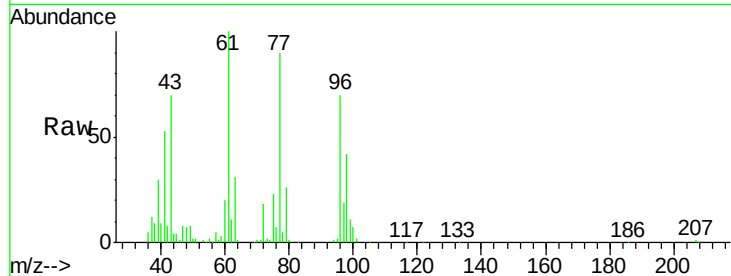
cis-1,2-Dichloroethene
 Concen: 21.079 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.5	0.0	292.8
98	63.7	0.0	130.0

Manual Integrations
 APPROVED

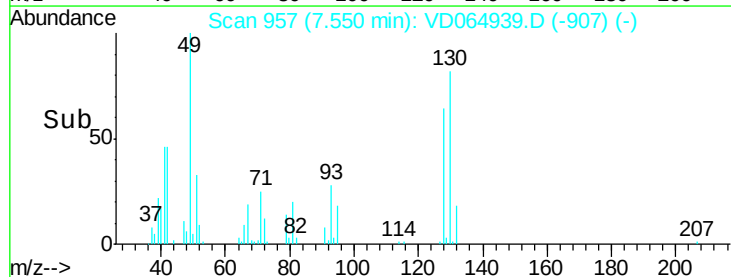
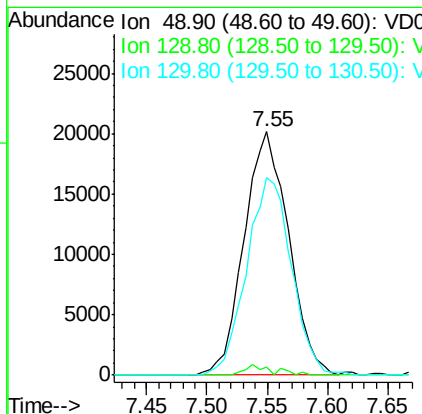
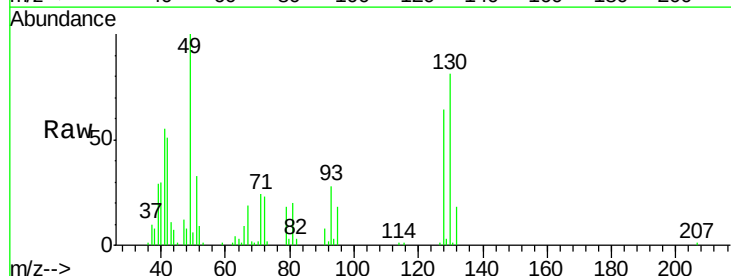
MMDadoda
 1/27/2020 12:03:11 PM

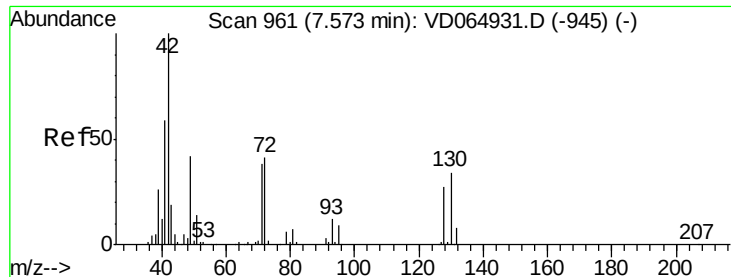


#28

Bromochloromethane
 Concen: 17.740 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. -0.01 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	81.6	63.8	95.8





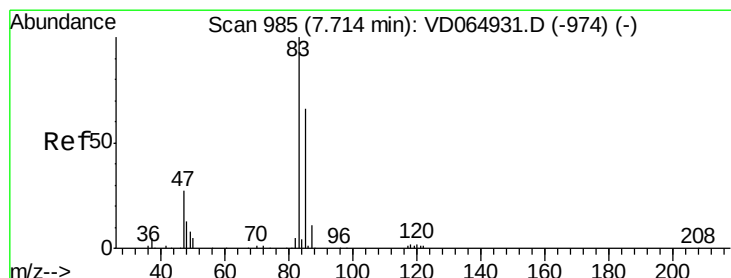
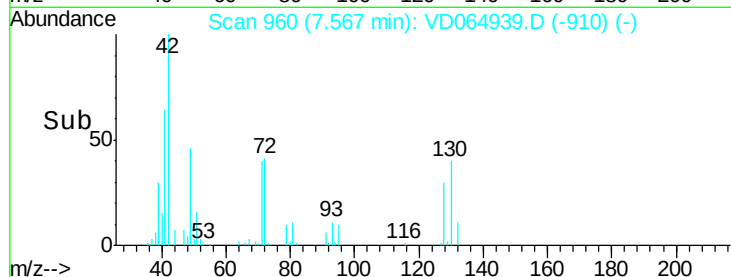
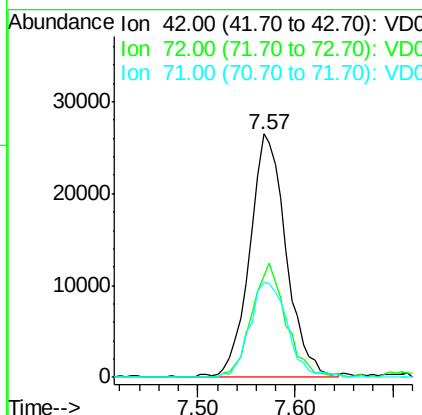
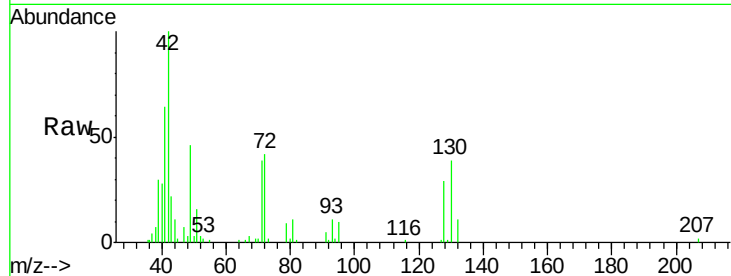
#29
Tetrahydrofuran
Concen: 101.164 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.0	34.0	51.0
71	40.5	31.5	47.3

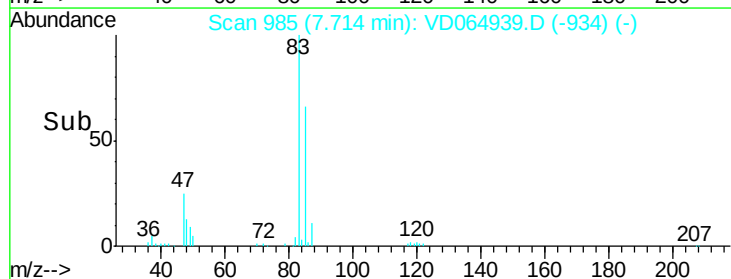
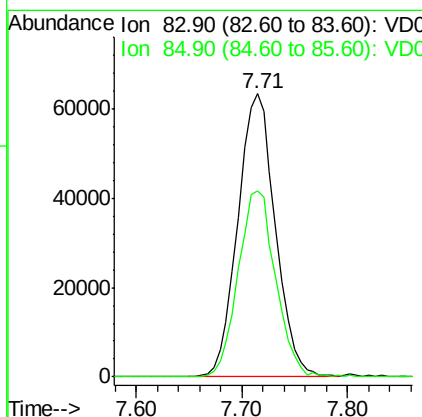
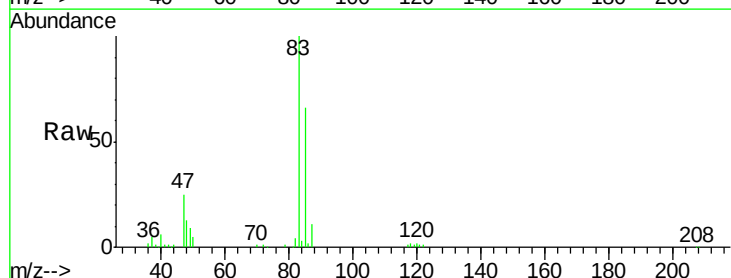
Manual Integrations
APPROVED

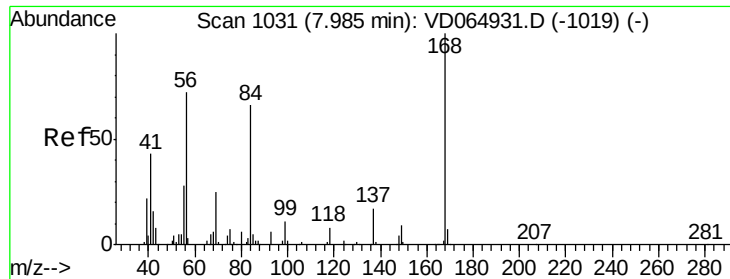
MMDadoda
1/27/2020 12:03:11 PM



#30
Chloroform
Concen: 20.727 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.4	78.6





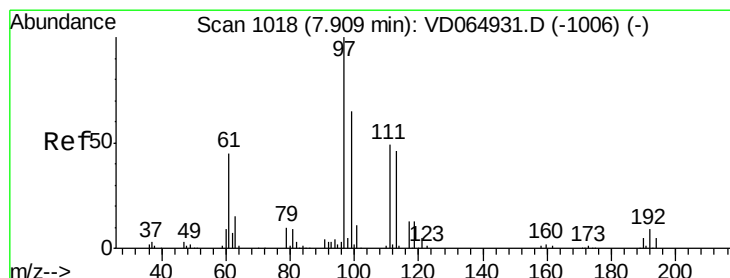
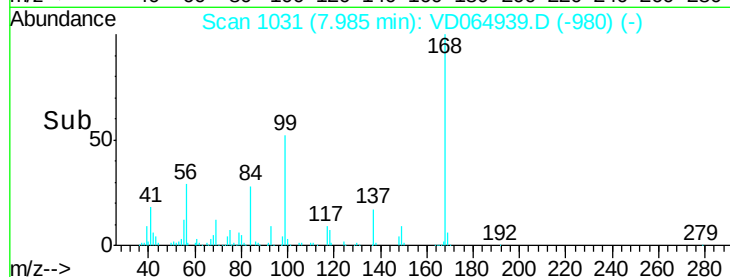
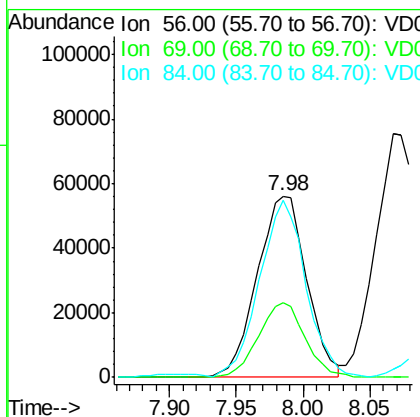
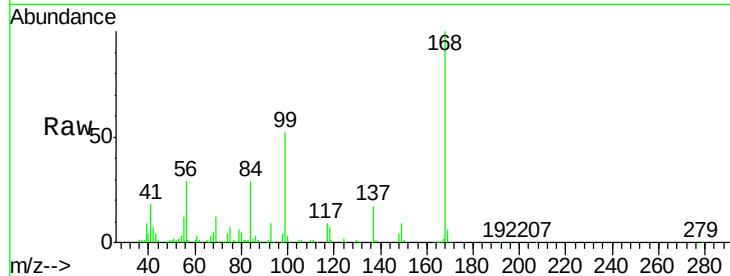
#31
Cyclohexane
Concen: 20.111 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	41.4	27.9	41.9
84	96.2	72.8	109.2

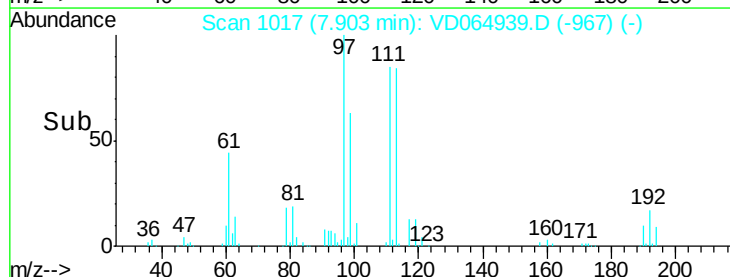
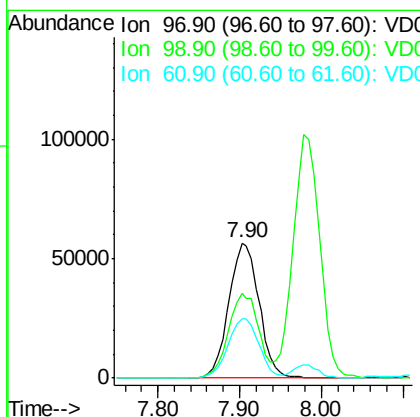
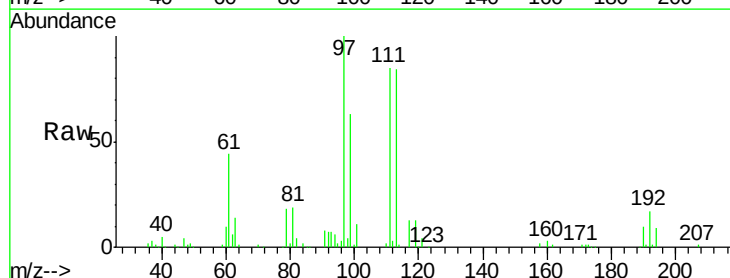
Manual Integrations
APPROVED

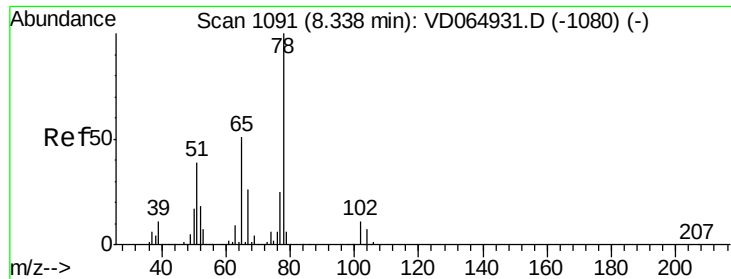
MMDadoda
1/27/2020 12:03:11 PM



#32
1,1,1-Trichloroethane
Concen: 20.794 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.3	50.6	76.0
61	44.9	35.7	53.5





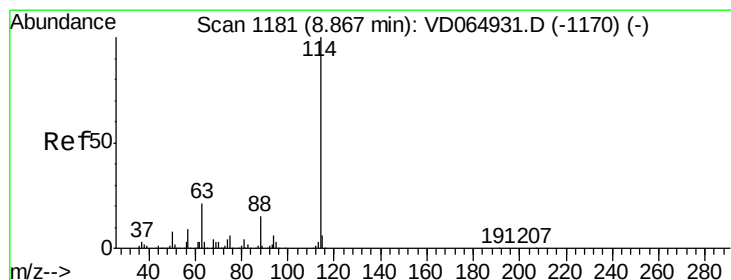
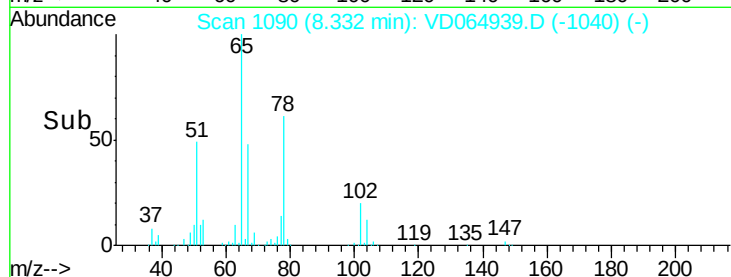
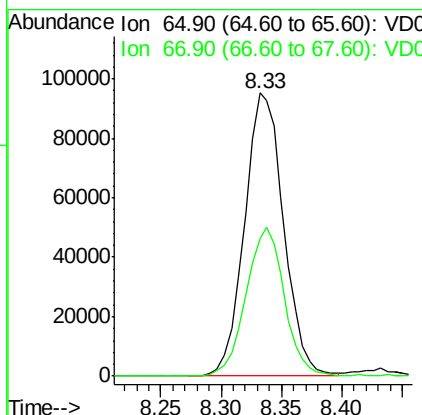
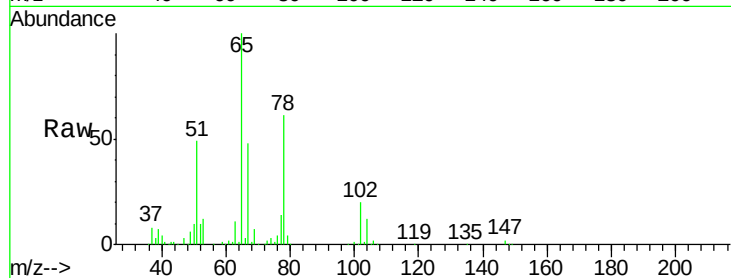
#33
 1,2-Dichloroethane-d4
 Concen: 52.062 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0124SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	213981		
67	51.5	0.0	103.6	

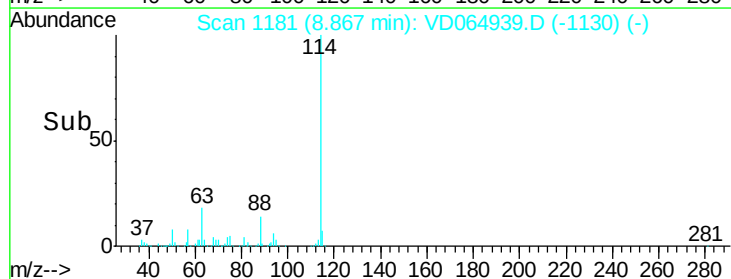
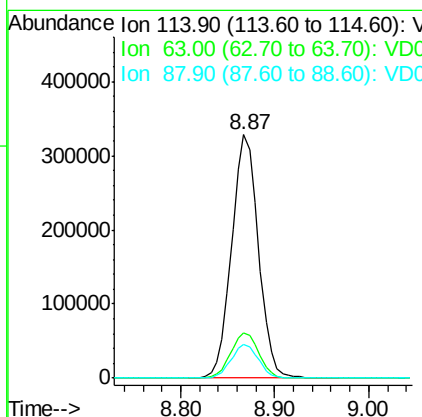
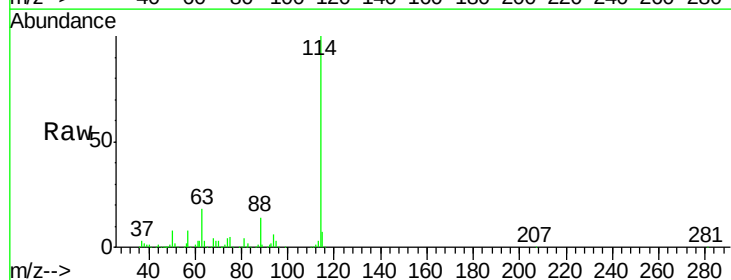
Manual Integrations
 APPROVED

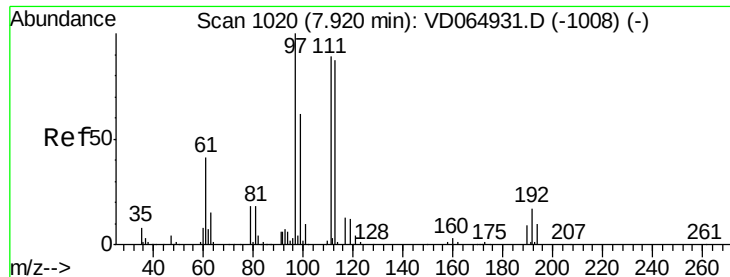
MMDadoda
 1/27/2020 12:03:11 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	649456		
63	18.3	0.0	42.0	
88	14.1	0.0	29.4	





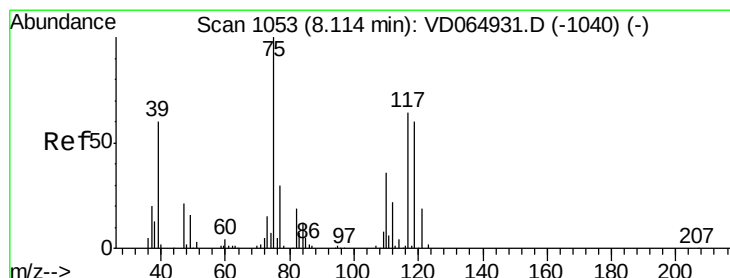
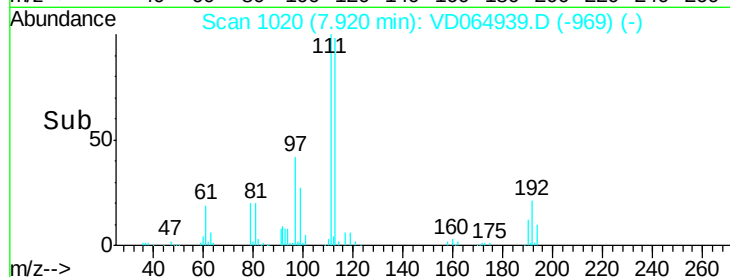
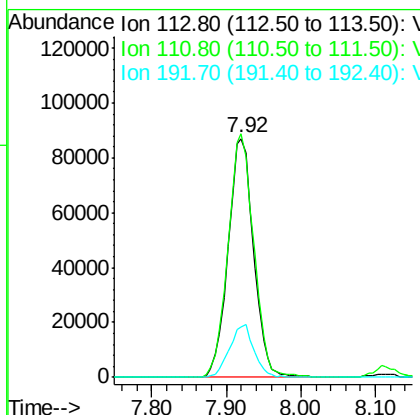
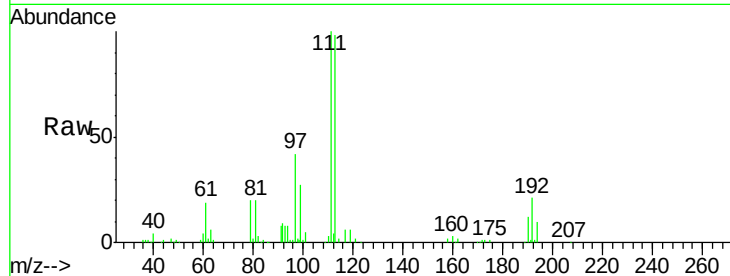
#35
 Dibromofluoromethane
 Concen: 50.875 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	207635		
111	102.6	82.4	123.6	
192	21.2	16.9	25.3	

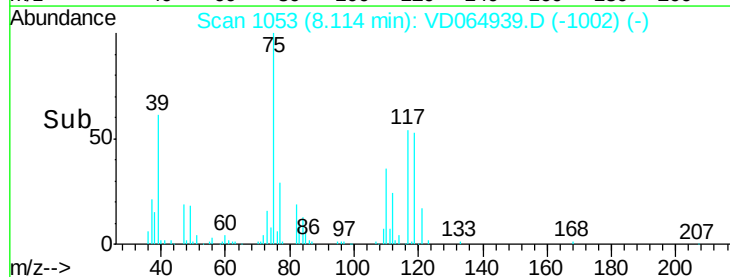
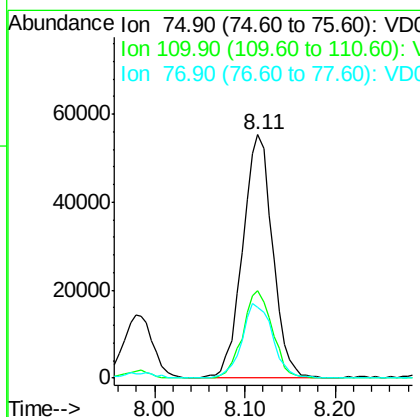
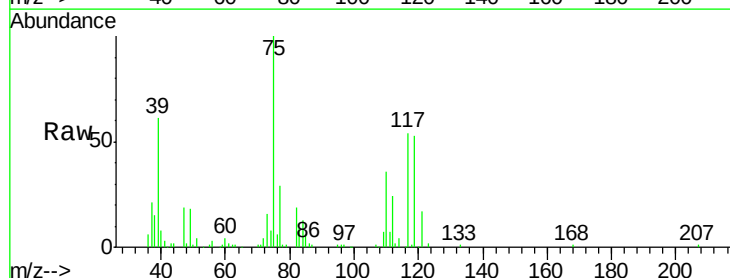
Manual Integrations
 APPROVED

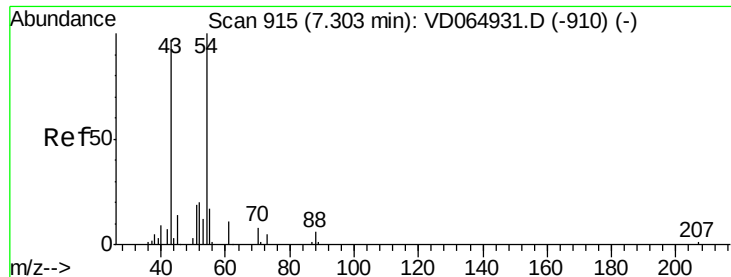
MMDadoda
 1/27/2020 12:03:11 PM



#36
 1,1-Dichloropropene
 Concen: 20.281 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	127009		
110	35.2	17.3	52.0	
77	31.3	24.7	37.1	





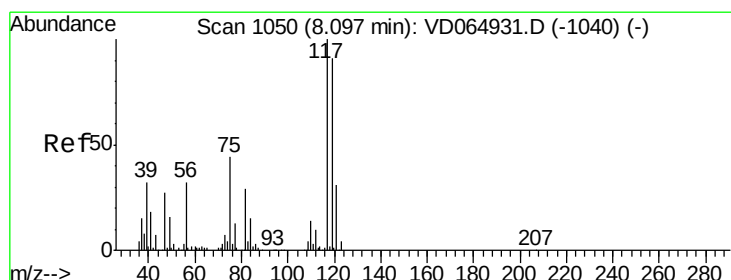
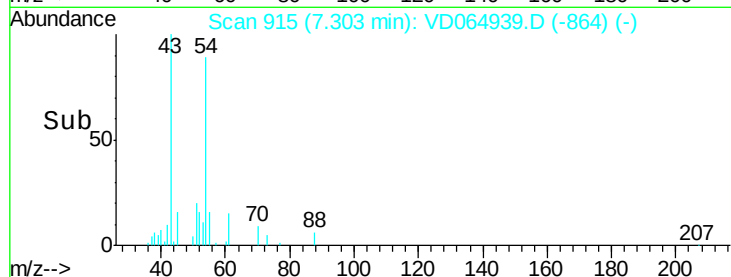
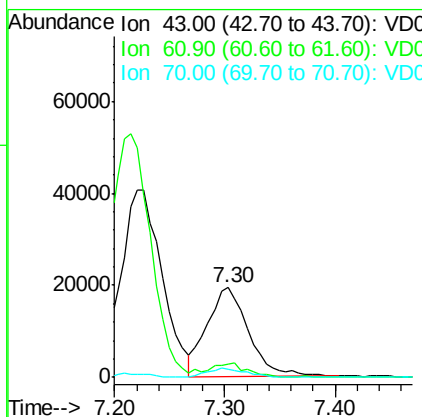
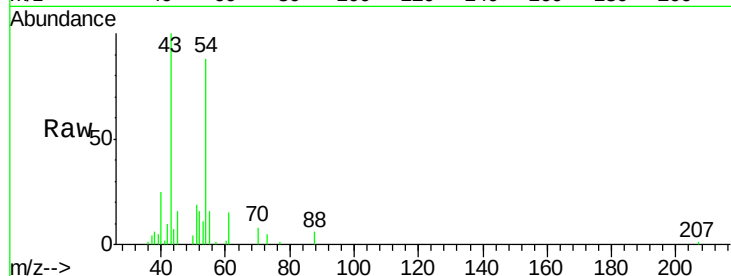
#37
Ethyl Acetate
Concen: 19.381 ug/l
RT: 7.30 min Scan# 915
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.4	11.0	16.4
70	9.5	7.5	11.3

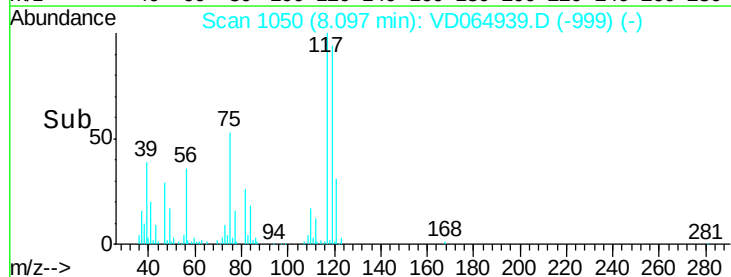
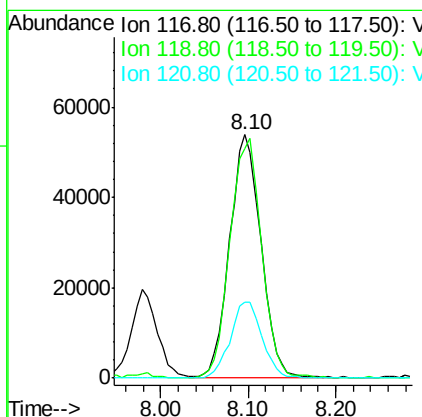
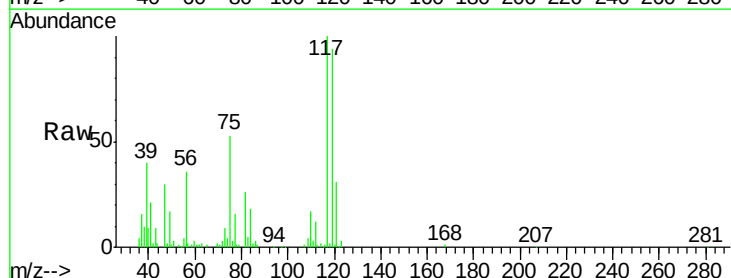
Manual Integrations
APPROVED

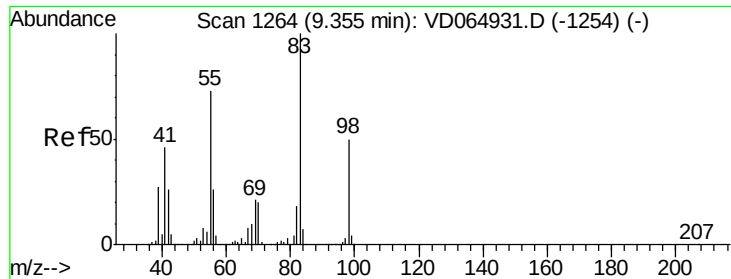
MMDadoda
1/27/2020 12:03:11 PM



#38
Carbon Tetrachloride
Concen: 19.881 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.3	73.2	109.8
121	31.2	24.4	36.6





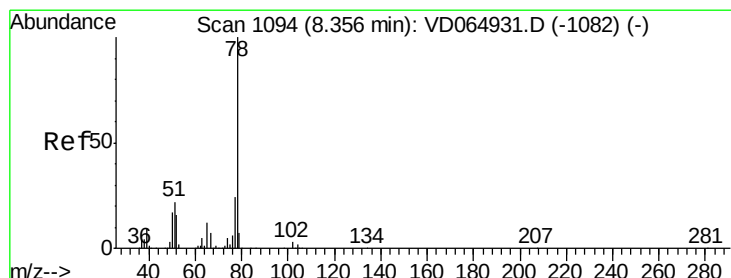
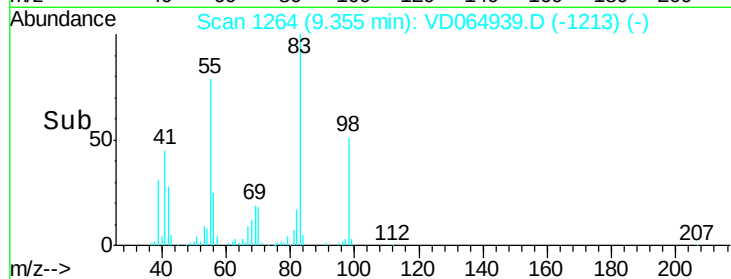
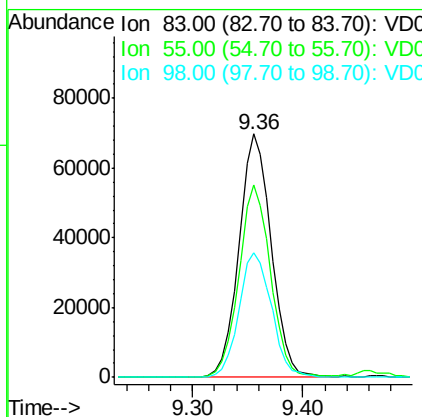
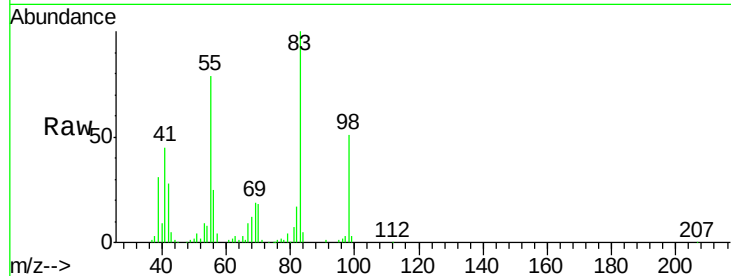
#39
Methylvlcyclohexane
Concen: 19.667 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.0	58.7	88.1
98	51.4	40.2	60.2

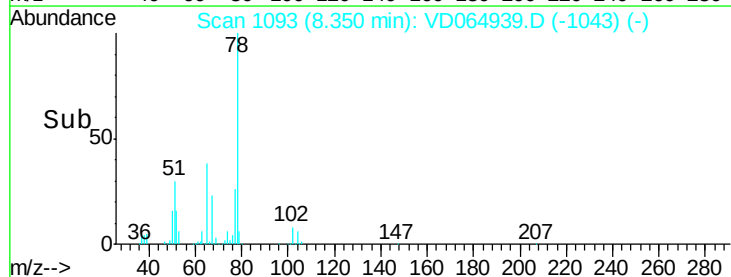
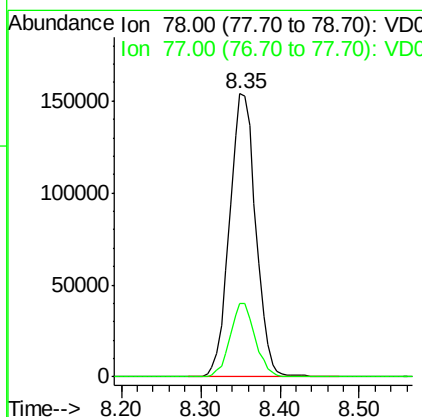
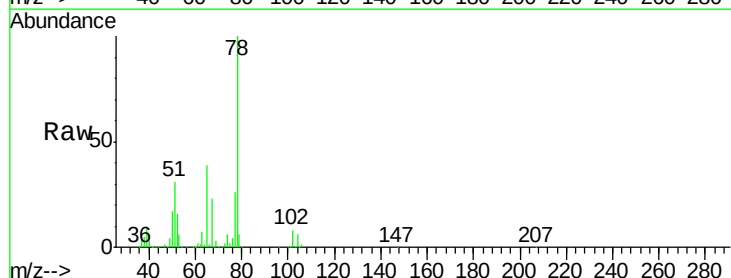
Manual Integrations
APPROVED

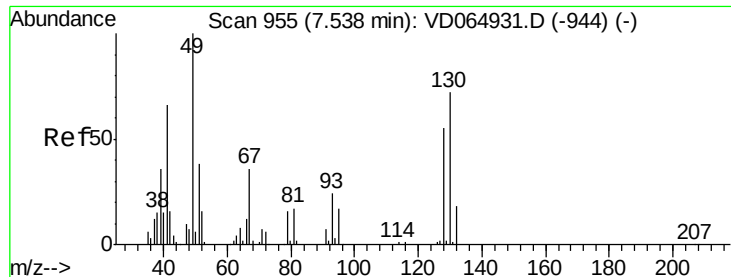
MMDadoda
1/27/2020 12:03:11 PM



#40
Benzene
Concen: 20.462 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.8	19.2	28.8





#41

Methacrylonitrile

Concen: 19.957 ug/l

RT: 7.53 min Scan# 954

Delta R.T. -0.01 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBS01

Tot Ion: 41 Resp: 27810

Ion Ratio Lower Upper

41 100

39 63.5 49.3 73.9

67 68.3 51.0 76.6

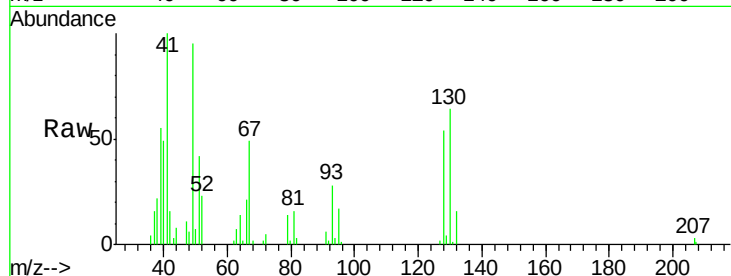
52 33.4 22.3 33.5

Manual Integrations

APPROVED

MMDadoda

1/27/2020 12:03:11 PM

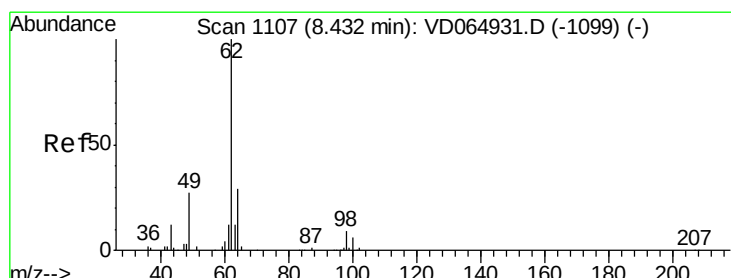
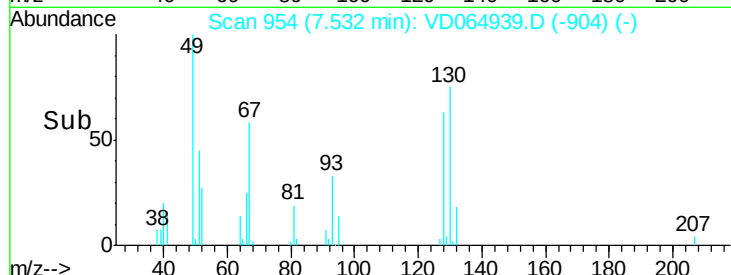
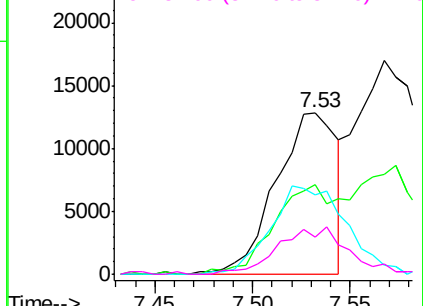


Abundance Ion 41.00 (40.70 to 41.70): VDC

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: 20.704 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VD064939.D

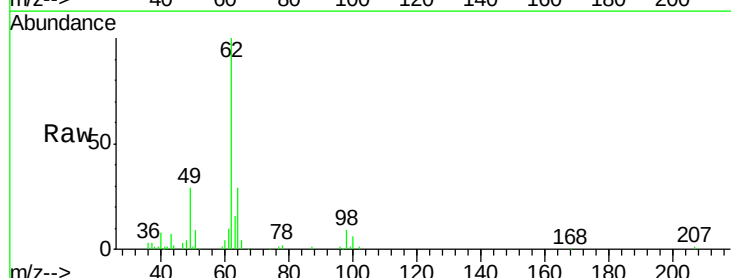
Acq: 24 Jan 2020 13:19

Tgt Ion: 62 Resp: 106373

Ion Ratio Lower Upper

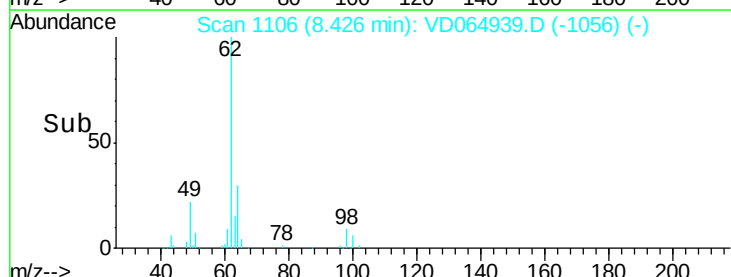
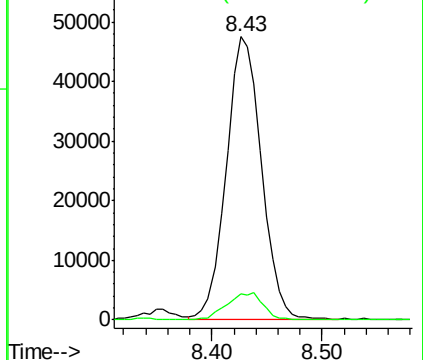
62 100

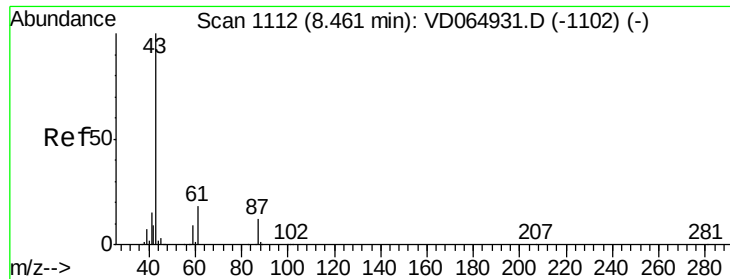
98 9.8 0.0 17.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 19.498 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

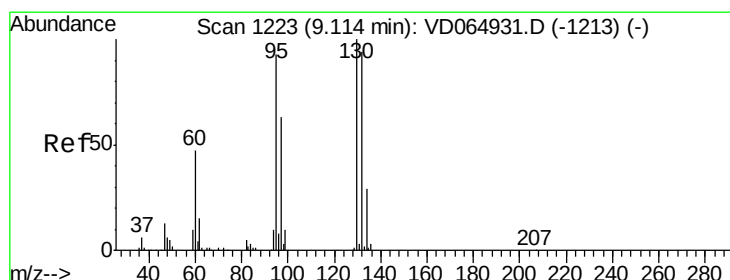
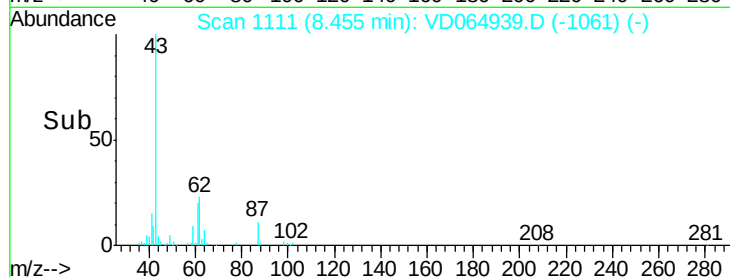
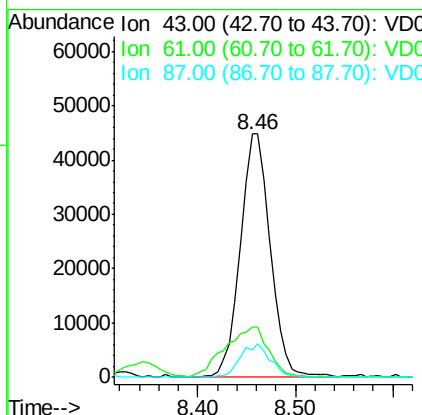
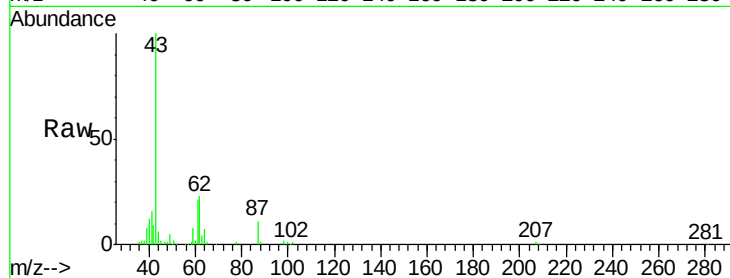
ClientSampleId :

VD0124SBS01

Tot Ion:	43	Resp:	95810
Ion	Ratio	Lower	Upper
43	100		
61	30.0	23.8	35.6
87	13.7	10.3	15.5

Manual Integrations
APPROVED

MMDadoda
1/27/2020 12:03:11 PM



#44

Trichloroethene

Concen: 20.302 ug/l

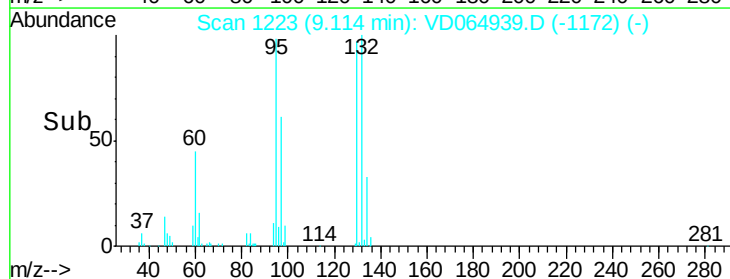
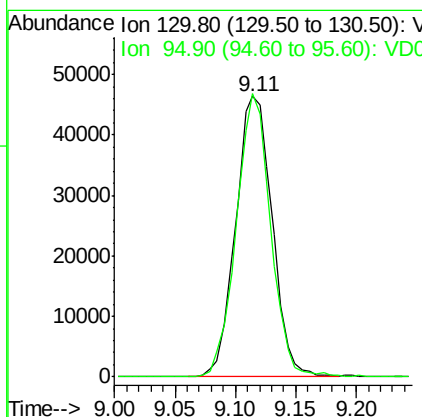
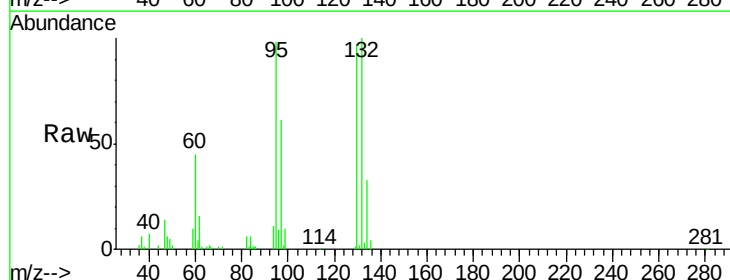
RT: 9.11 min Scan# 1223

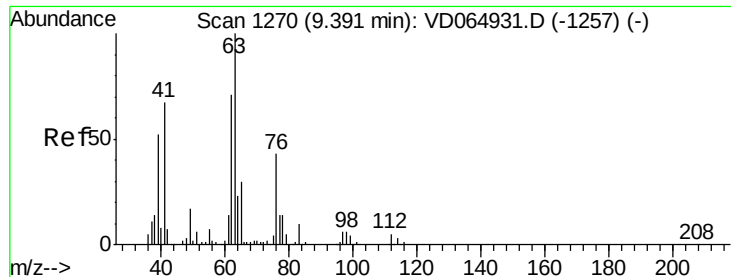
Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Tgt Ion:	130	Resp:	98000
Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	185.8





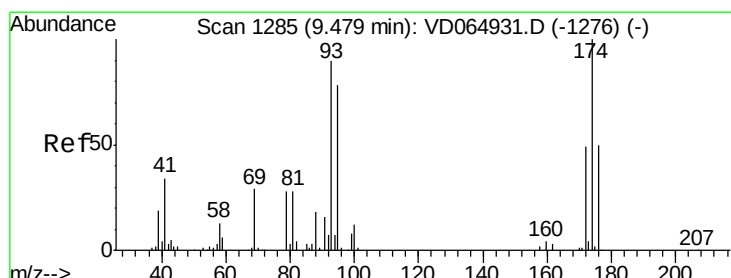
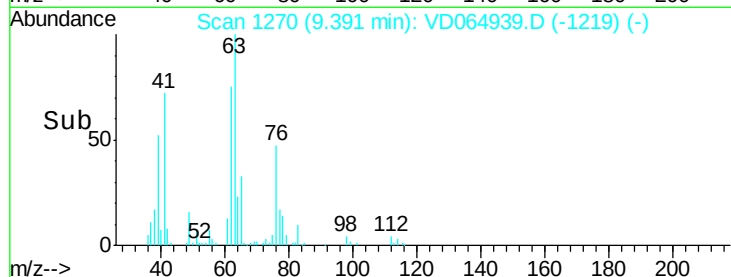
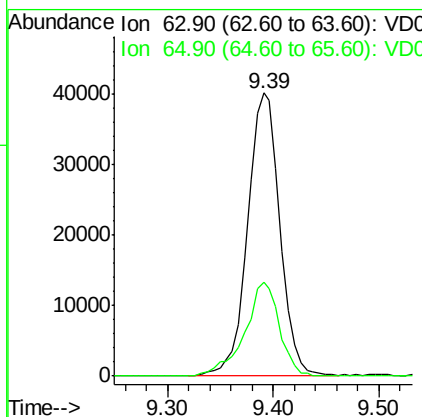
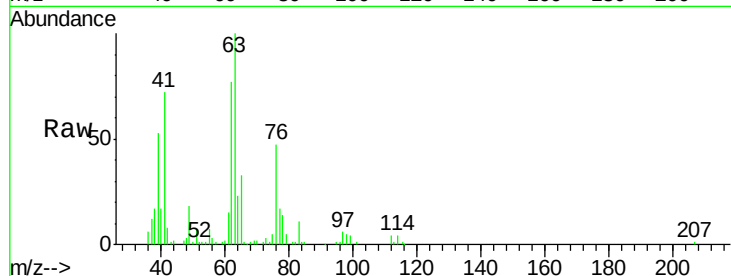
#45
 1,2-Dichloropropane
 Concen: 20.465 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBSD01

Tot Ion: 63 Resp: 85572
 Ion Ratio Lower Upper
 63 100
 65 33.3 24.3 36.5

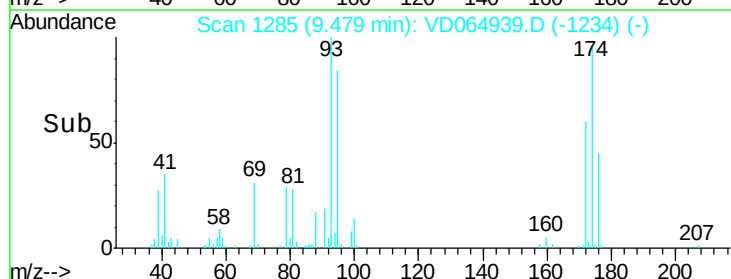
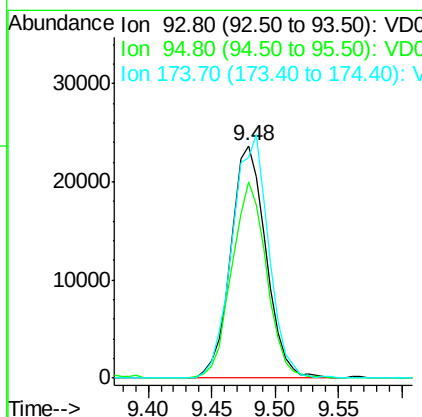
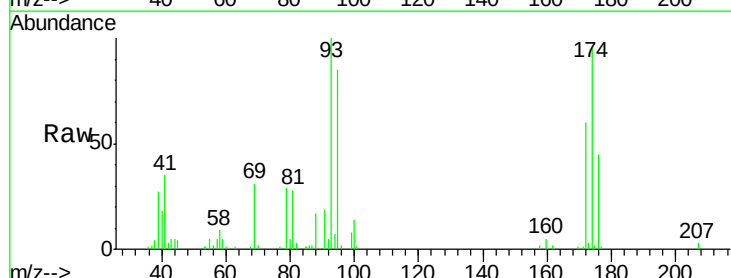
Manual Integrations
 APPROVED

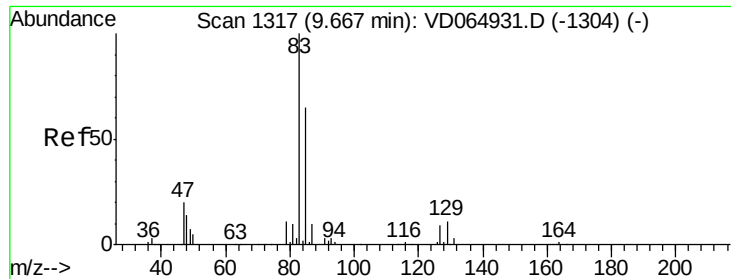
MMDadoda
 1/27/2020 12:03:11 PM



#46
 Dibromomethane
 Concen: 19.927 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion: 93 Resp: 45490
 Ion Ratio Lower Upper
 93 100
 95 83.5 67.5 101.3
 174 108.2 88.4 132.6





#47

Bromodichloromethane

Concen: 20.628 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

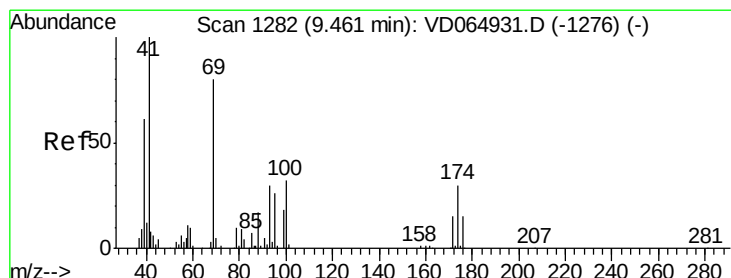
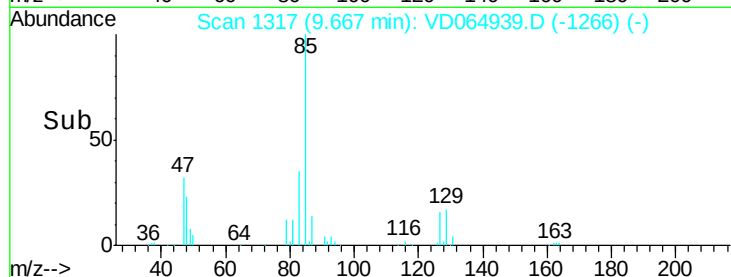
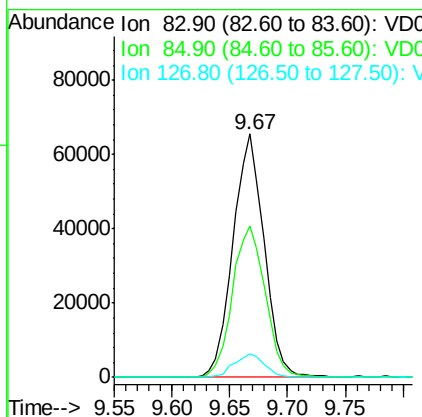
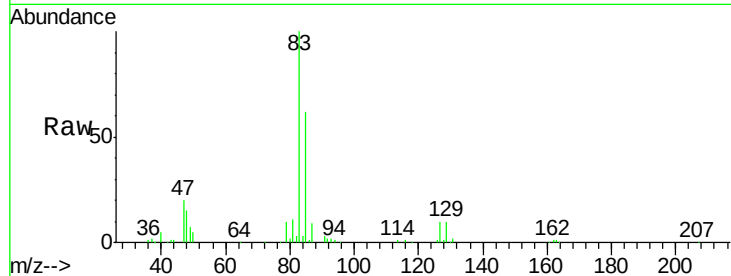
ClientSampleId :

VD0124SBSD01

Tot Ion:	83	Resp:	122534
Ion	Ratio	Lower	Upper
83	100		
85	62.2	52.0	78.0
127	9.8	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
1/27/2020 12:03:11 PM



#48

Methyl methacrylate

Concen: 19.531 ug/l

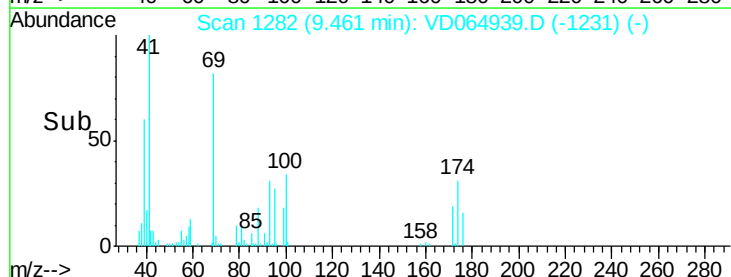
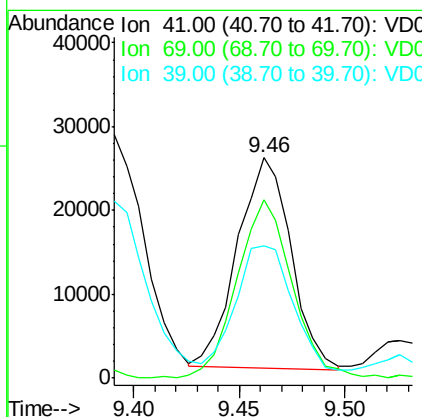
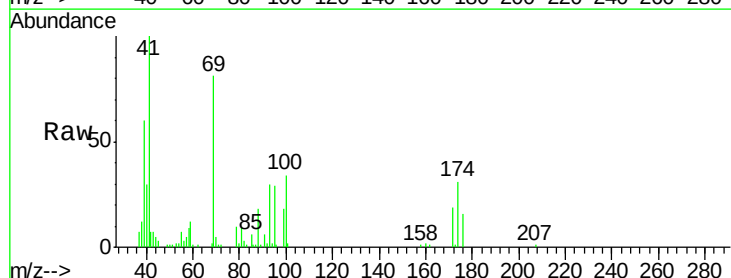
RT: 9.46 min Scan# 1282

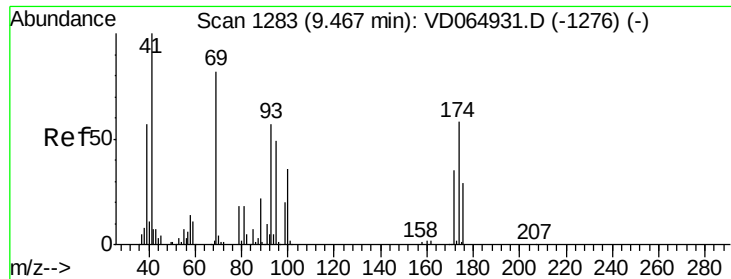
Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Tgt Ion:	41	Resp:	44165
Ion	Ratio	Lower	Upper
41	100		
69	88.0	65.8	98.8
39	70.2	49.4	74.0





#49

1,4-Dioxane

Concen: 425.596 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBS01

Tot Ion: 88 Resp: 11268

Ion Ratio Lower Upper

88 100

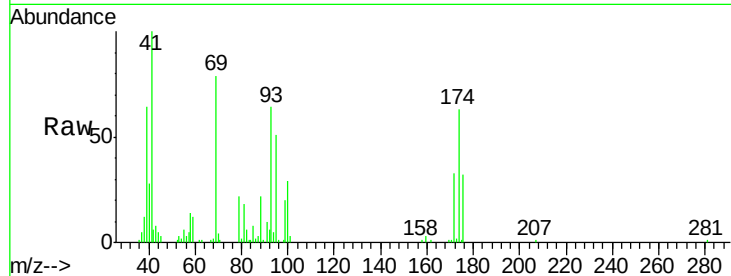
43 40.0 26.2 39.4#

58 62.8 50.3 75.5

Manual Integrations
APPROVED

MMDadoda

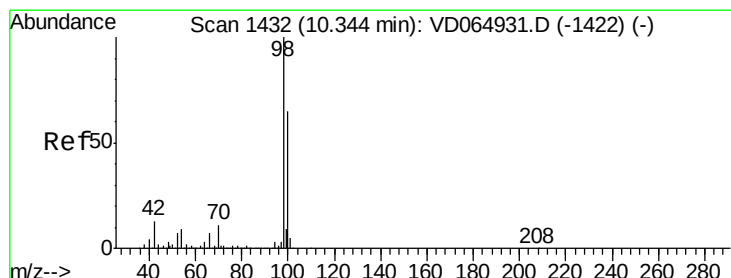
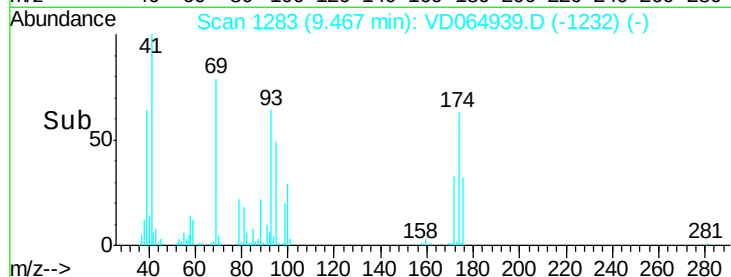
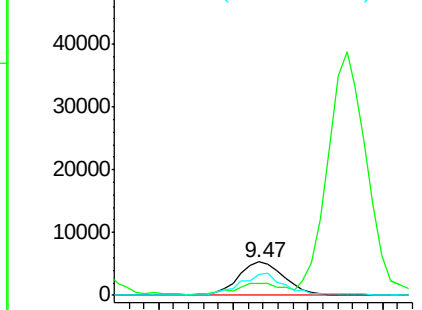
1/27/2020 12:03:11 PM



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 51.228 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064939.D

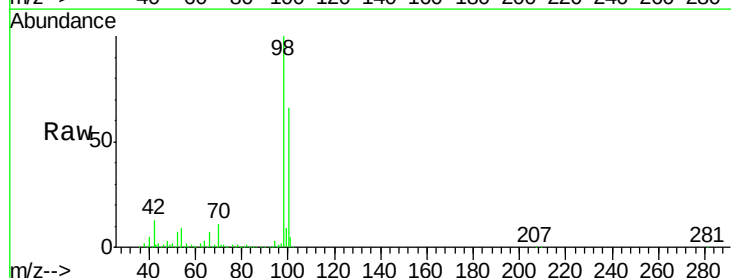
Acq: 24 Jan 2020 13:19

Tgt Ion: 98 Resp: 806959

Ion Ratio Lower Upper

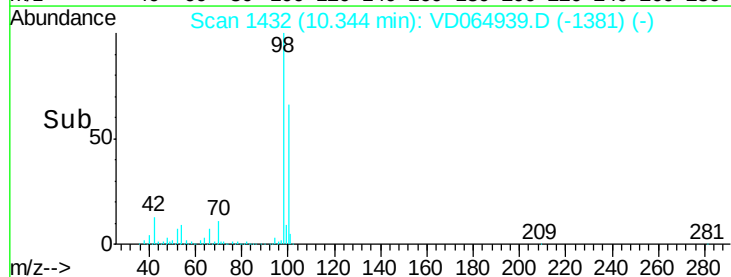
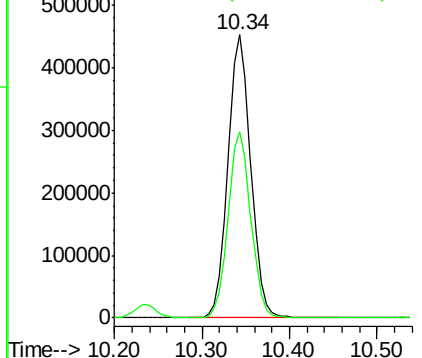
98 100

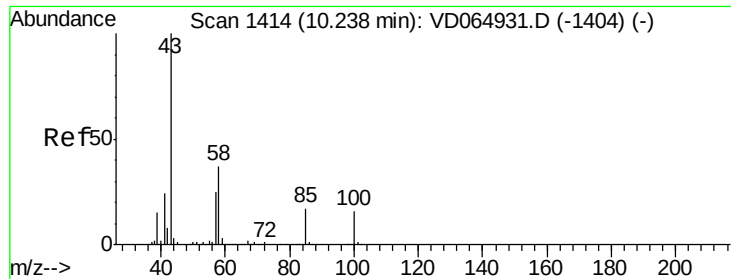
100 65.3 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





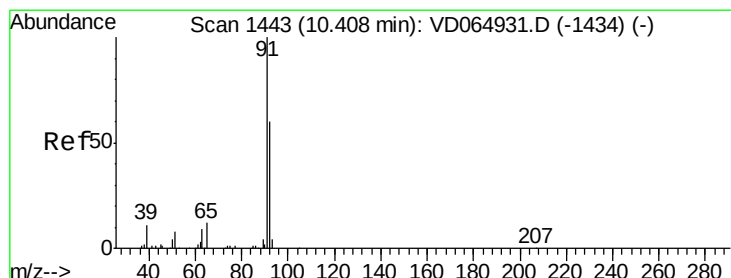
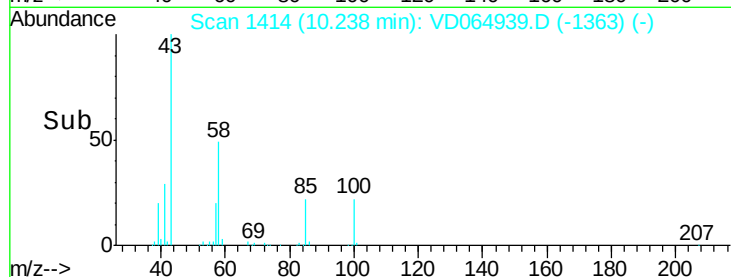
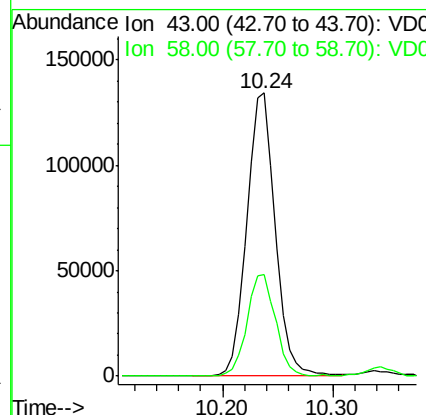
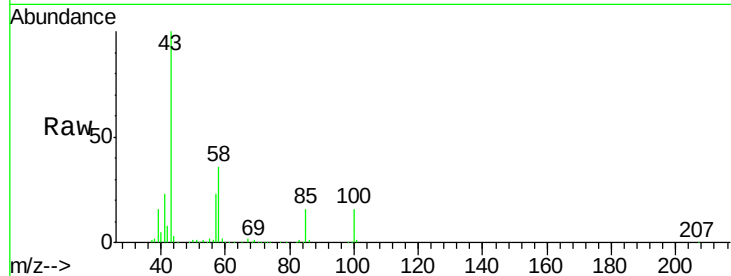
#51
4-Methyl-2-Pentanone
Concen: 99.258 ug/l
RT: 10.24 min Scan# 1414
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBS01

Tot Ion	43	Resp	244040
Ion Ratio	100	Lower	Upper
43	100		
58	36.0	30.4	45.6

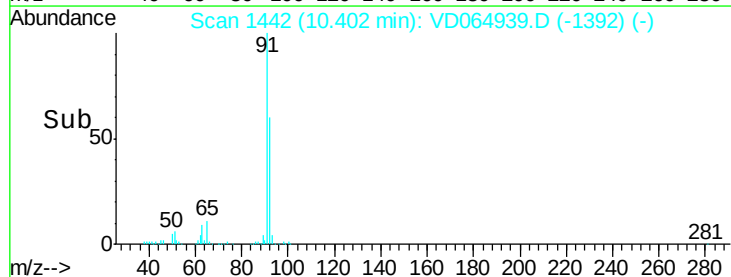
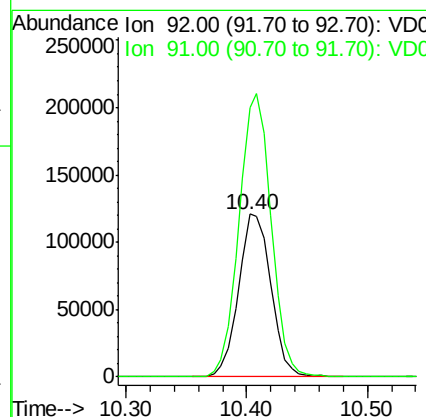
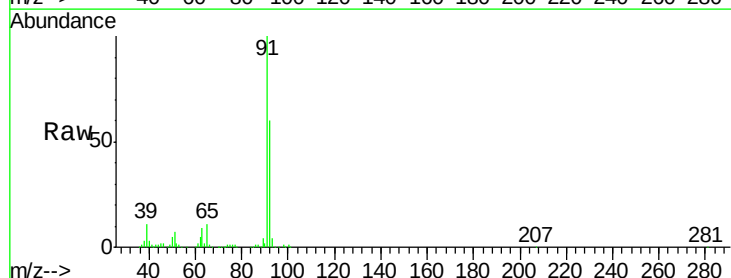
Manual Integrations
APPROVED

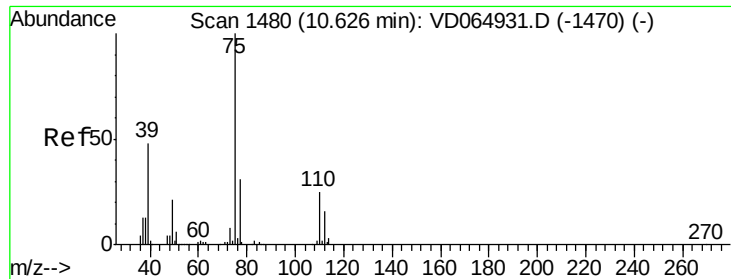
MMDadoda
1/27/2020 12:03:11 PM



#52
Toluene
Concen: 20.378 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	92	Resp	226608
Ion Ratio	100	Lower	Upper
92	100		
91	172.5	136.8	205.2





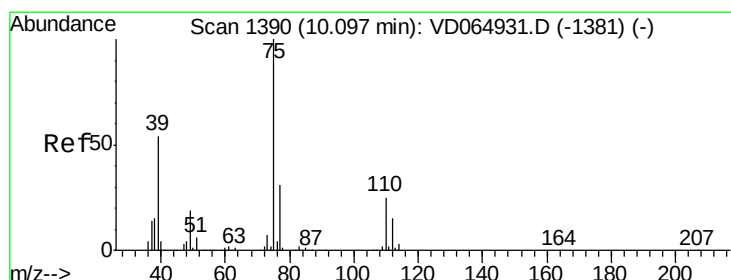
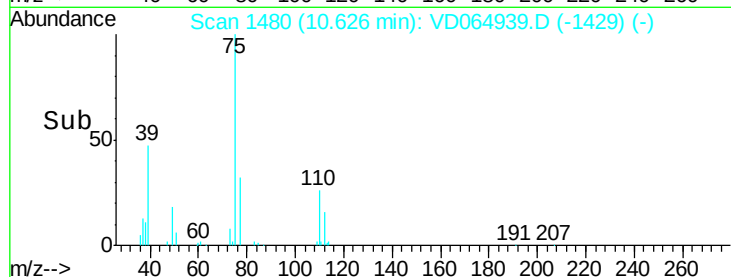
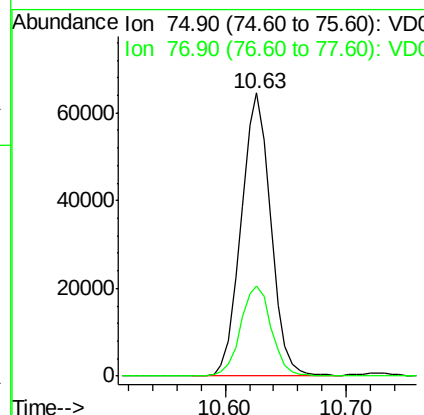
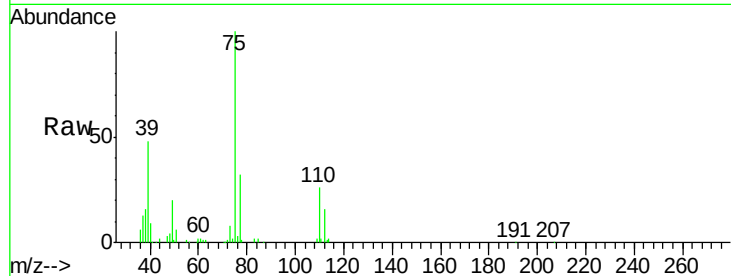
#53
t-1,3-Dichloropropene
Concen: 19.521 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleID :
VD0124SBS01

Tot Ion: 75 Resp: 110456
Ion Ratio Lower Upper
75 100
77 32.0 25.0 37.6

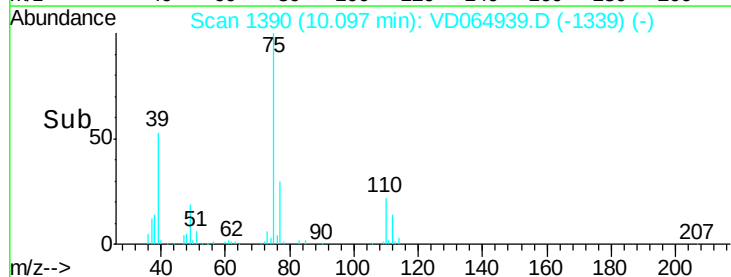
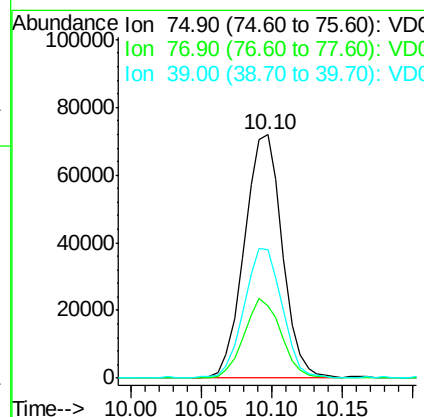
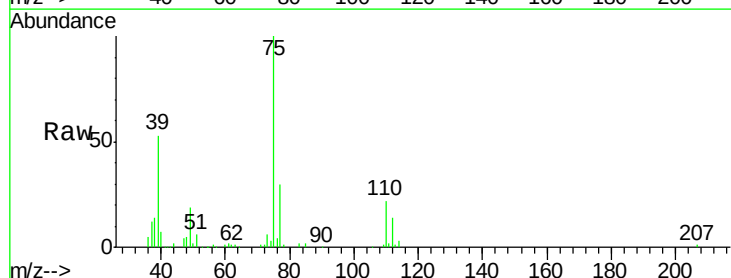
Manual Integrations
APPROVED

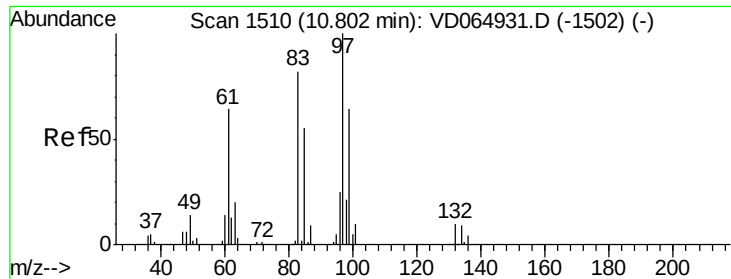
MMDadoda
1/27/2020 12:03:11 PM



#54
cis-1,3-Dichloropropene
Concen: 20.390 ug/l
RT: 10.10 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion: 75 Resp: 135083
Ion Ratio Lower Upper
75 100
77 29.7 25.1 37.7
39 52.6 43.0 64.6





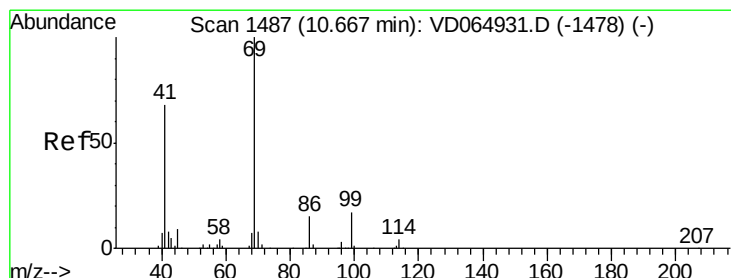
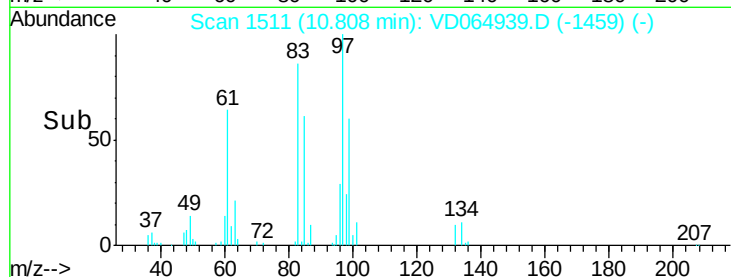
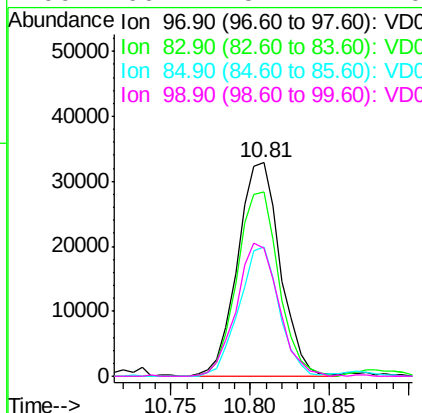
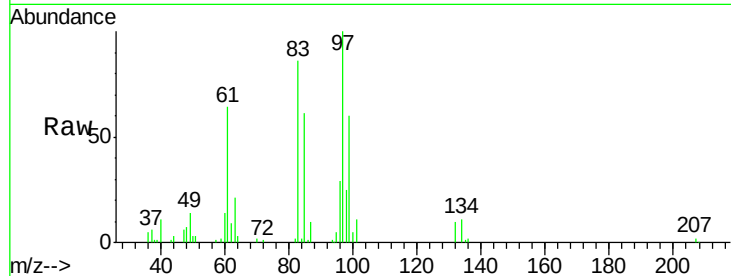
#55
 1,1,2-Trichloroethane
 Concen: 20.024 ug/l
 RT: 10.81 min Scan# 1511
 Delta R.T. 0.01 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBS01

Tot Ion:	97	Resp:	61572
Ion	Ratio	Lower	Upper
97	100		
83	86.2	66.0	99.0
85	60.8	44.4	66.6
99	60.2	51.4	77.0

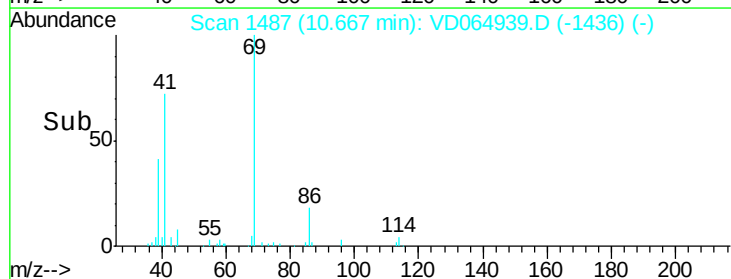
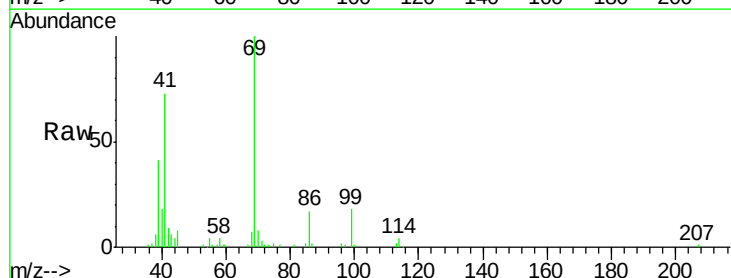
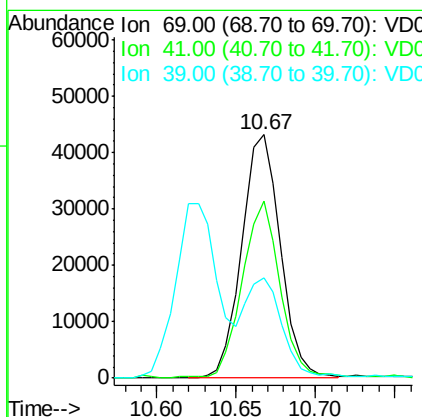
Manual Integrations
 APPROVED

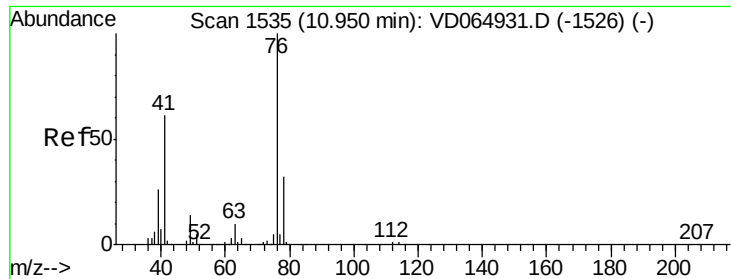
MMDadoda
 1/27/2020 12:03:11 PM



#56
 Ethyl methacrylate
 Concen: 19.924 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion:	69	Resp:	73262
Ion	Ratio	Lower	Upper
69	100		
41	71.4	56.4	84.6
39	38.5	30.6	46.0





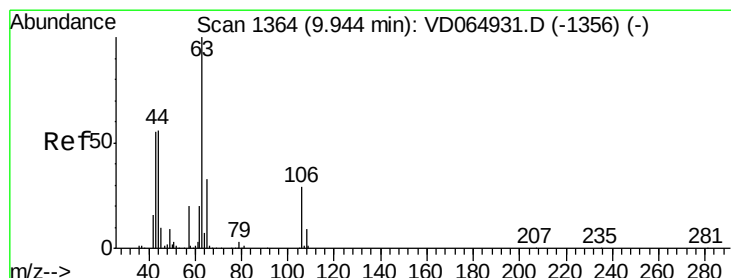
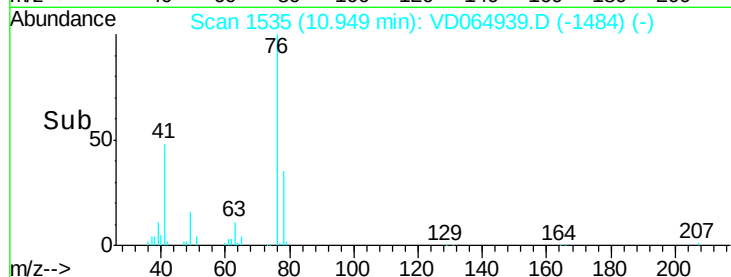
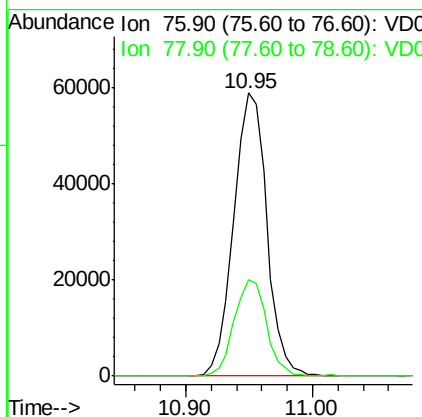
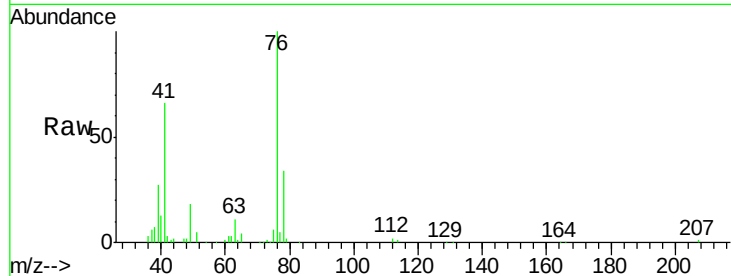
#57
 1,3-Dichloropropane
 Concen: 20.175 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBSD01

Tot Ion: 76 Resp: 106407
 Ion Ratio Lower Upper
 76 100
 78 33.0 25.7 38.5

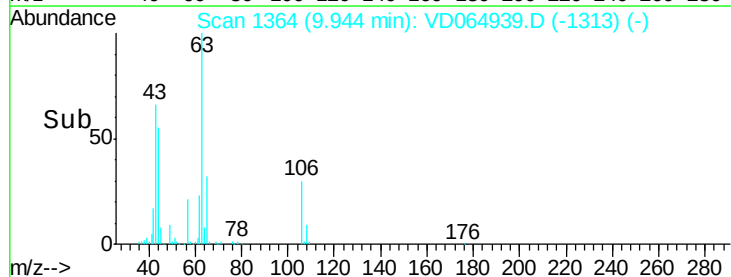
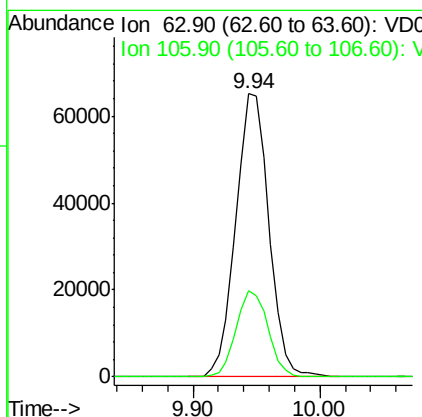
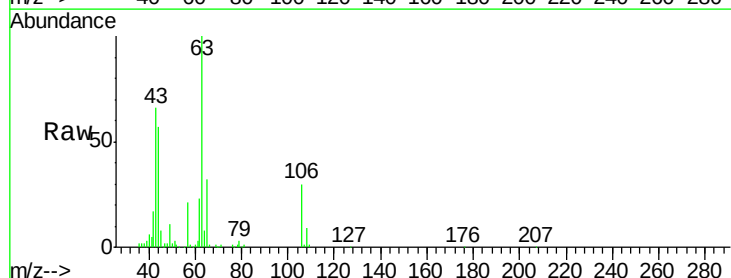
Manual Integrations
 APPROVED

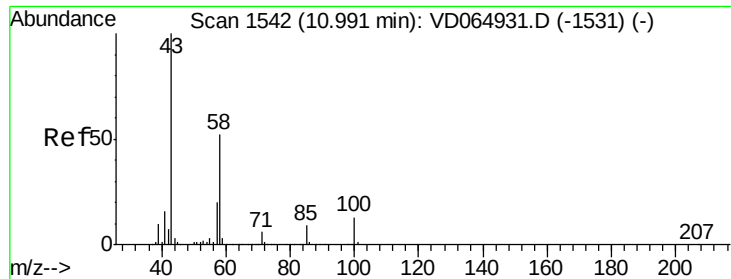
MMDadoda
 1/27/2020 12:03:11 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 96.728 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion: 63 Resp: 118165
 Ion Ratio Lower Upper
 63 100
 106 29.2 23.0 34.4





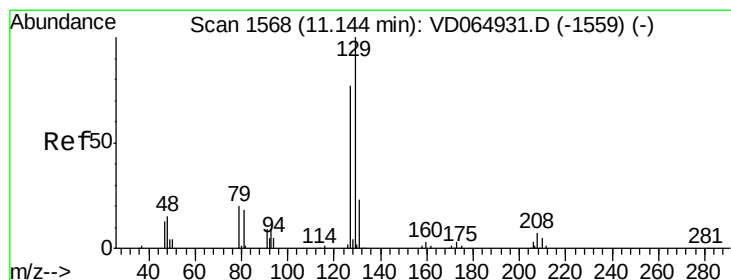
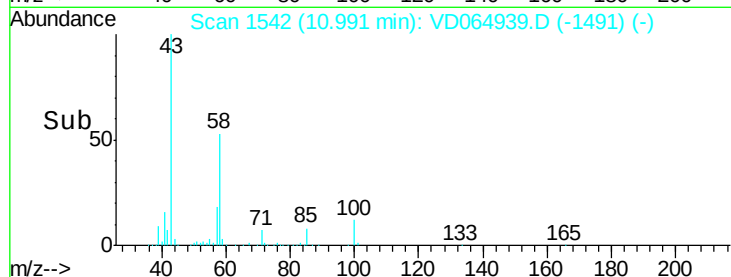
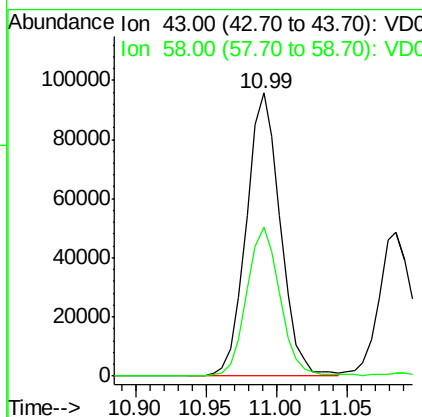
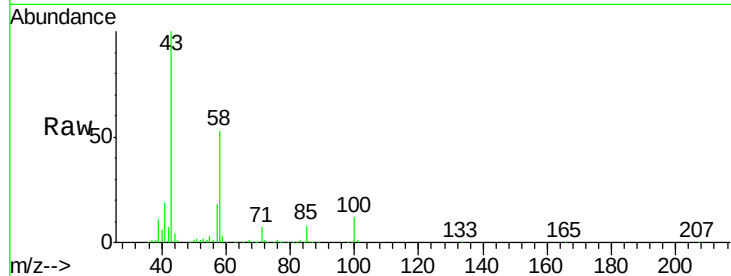
#59
2-Hexanone
Concen: 95.595 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

Tot Ion	43	Resp	162121
Ion Ratio	43	100	
Lower	58	51.7	26.5
Upper			79.4

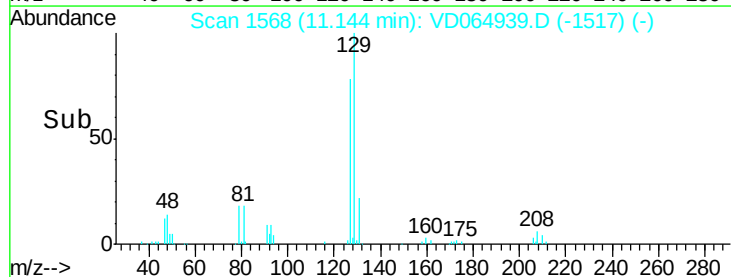
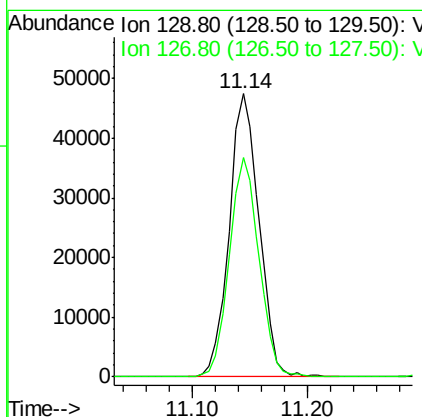
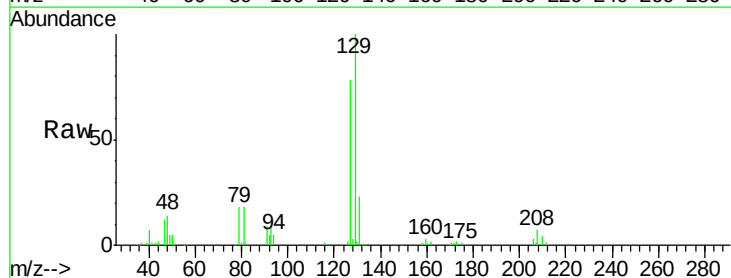
Manual Integrations
APPROVED

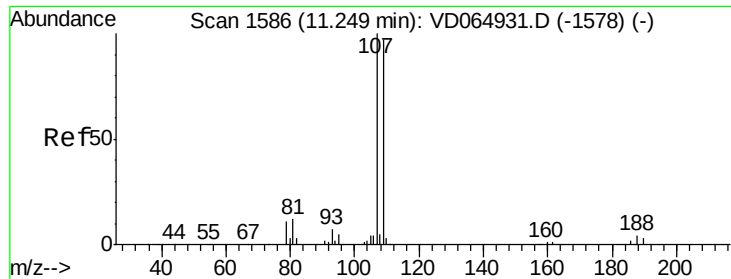
MMDadoda
1/27/2020 12:03:11 PM



#60
Dibromochloromethane
Concen: 20.602 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	129	Resp	84673
Ion Ratio	129	100	
Lower	127	77.1	38.2
Upper			114.6





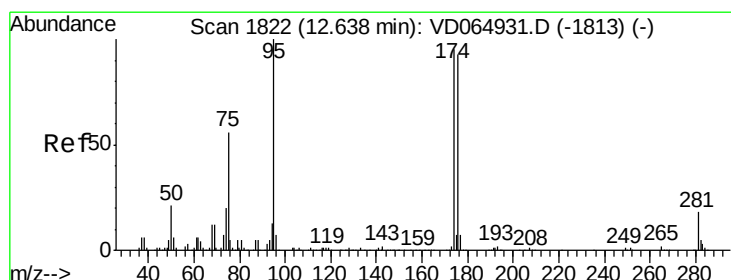
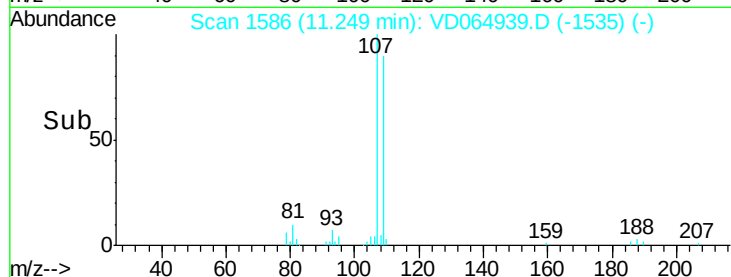
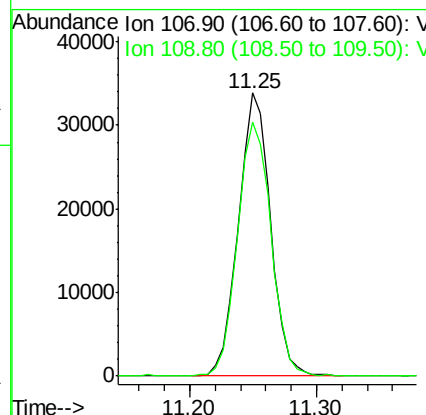
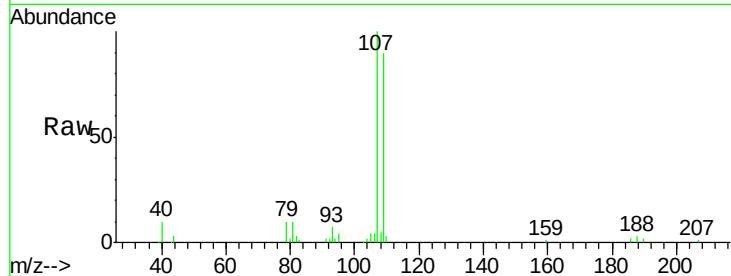
#61
 1,2-Dibromoethane
 Concen: 20.042 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.6	77.1	115.7

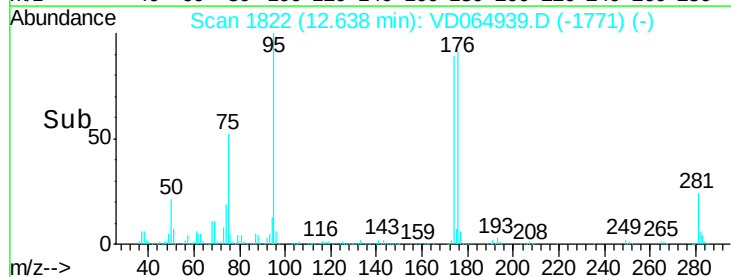
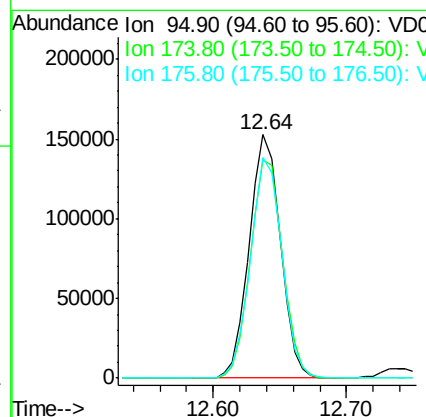
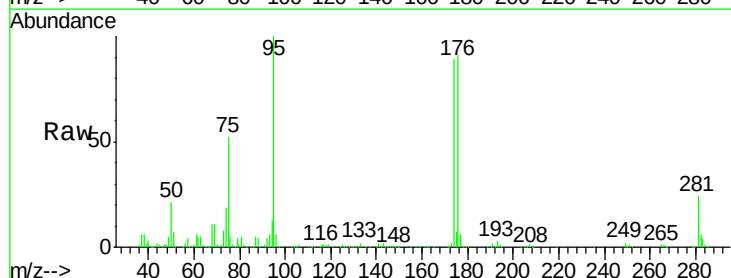
Manual Integrations
 APPROVED

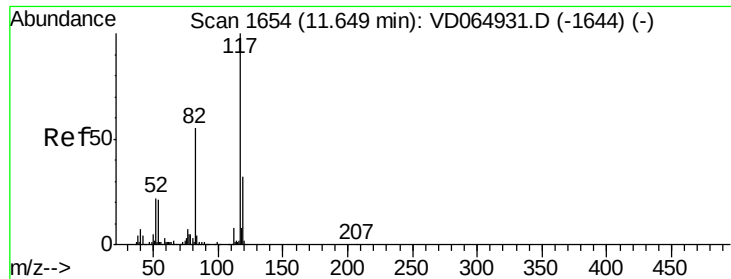
MMDadoda
 1/27/2020 12:03:11 PM



#62
 4-Bromofluorobenzene
 Concen: 51.100 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.2	0.0	186.8
176	91.1	0.0	183.4





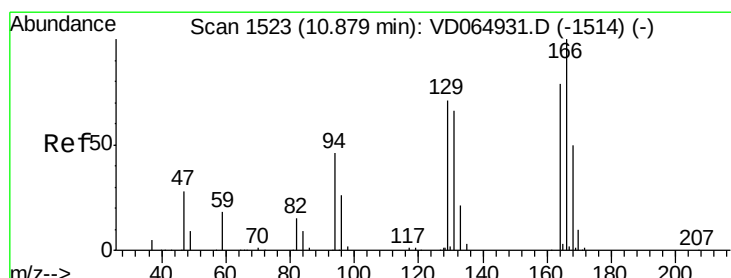
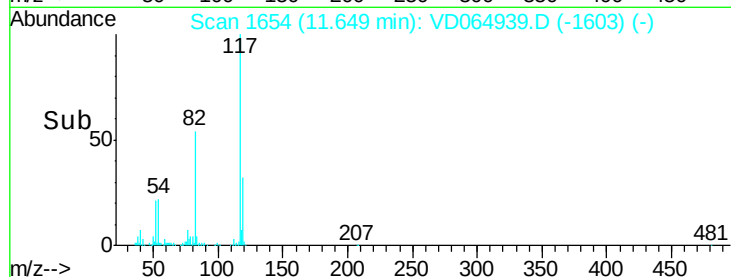
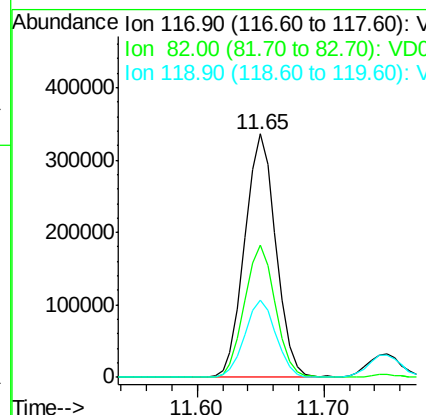
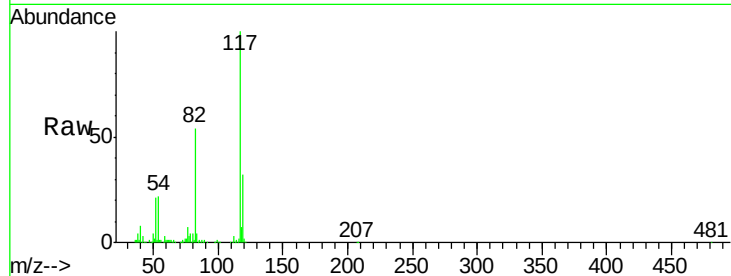
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.2	43.6	65.4
119	31.7	25.2	37.8

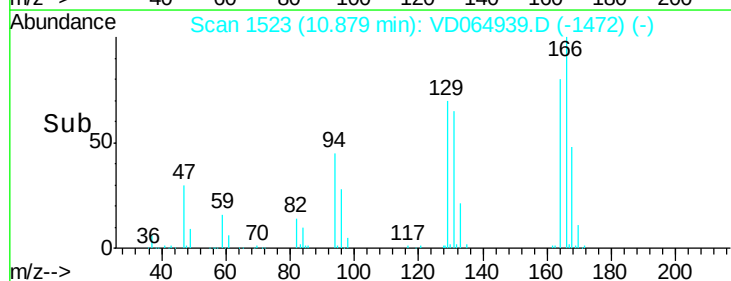
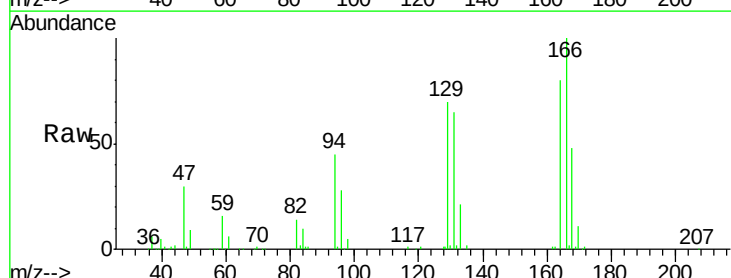
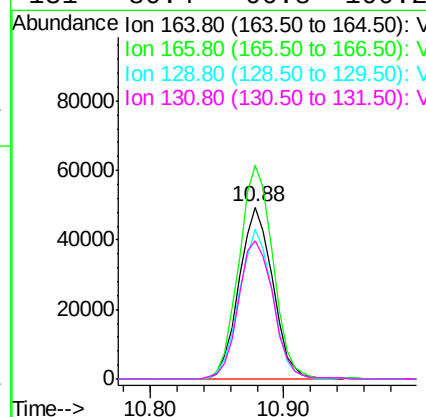
Manual Integrations
APPROVED

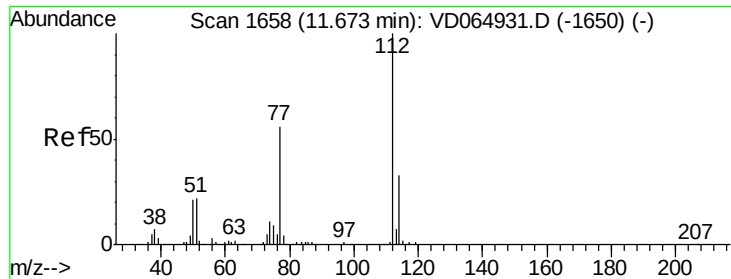
MMDadoda
1/27/2020 12:03:11 PM



#64
Tetrachloroethene
Concen: 20.877 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.3	101.4	152.2
129	87.5	71.8	107.8
131	80.4	66.8	100.2





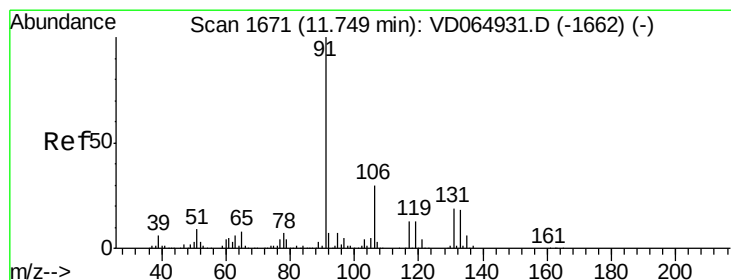
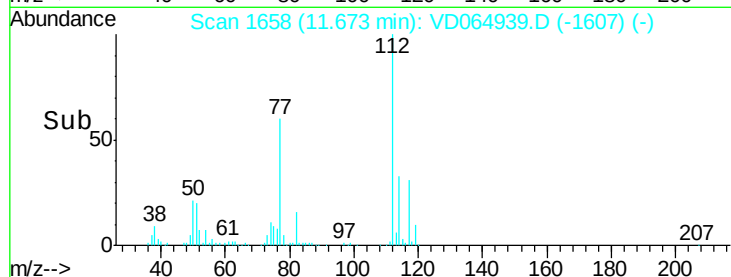
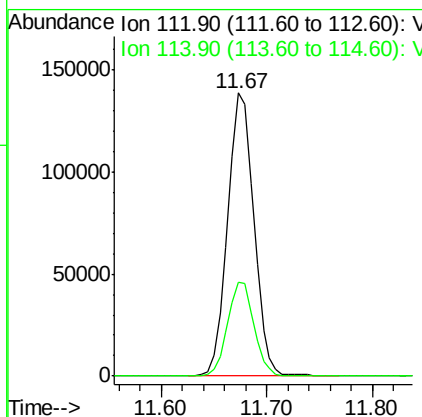
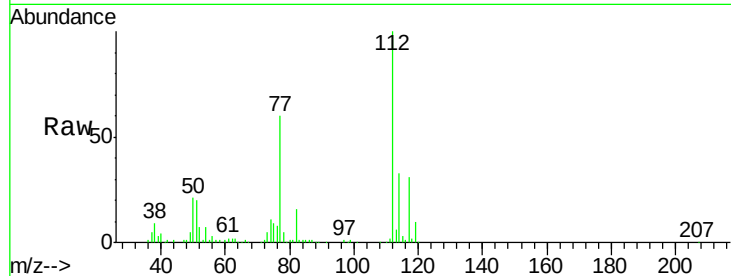
#65
Chlorobenzene
Concen: 20.419 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

Tot Ion:112 Resp: 237714
Ion Ratio Lower Upper
112 100
114 33.2 26.2 39.4

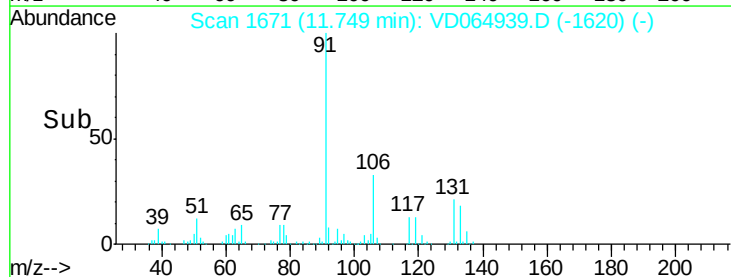
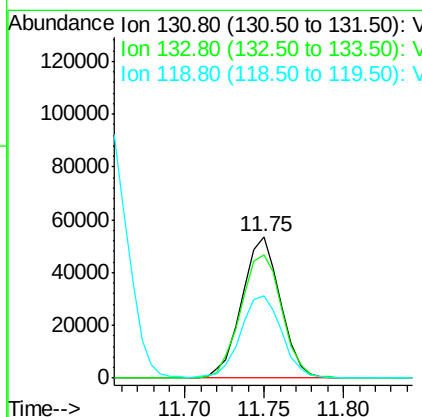
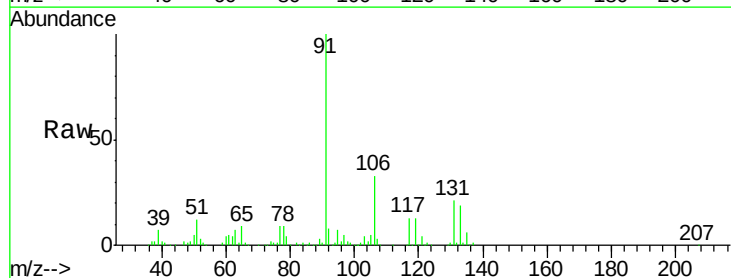
Manual Integrations
APPROVED

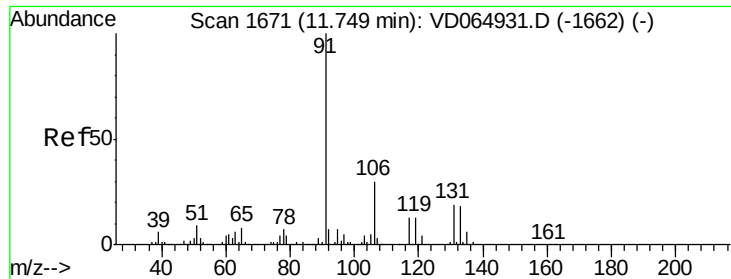
MMDadoda
1/27/2020 12:03:11 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.629 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion:131 Resp: 90321
Ion Ratio Lower Upper
131 100
133 93.8 47.5 142.5
119 62.6 31.1 93.5





#67

Ethyl Benzene

Concen: 20.173 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBS001

Tot Ion: 91 Resp: 416948

Ion Ratio Lower Upper

91 100

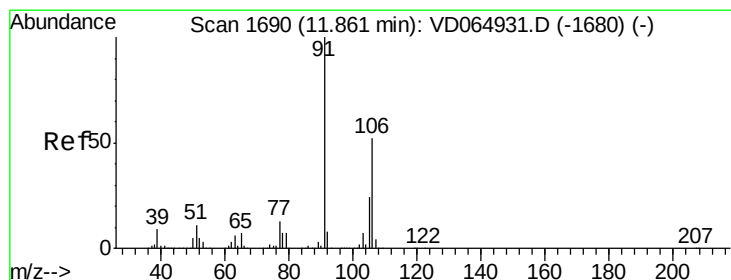
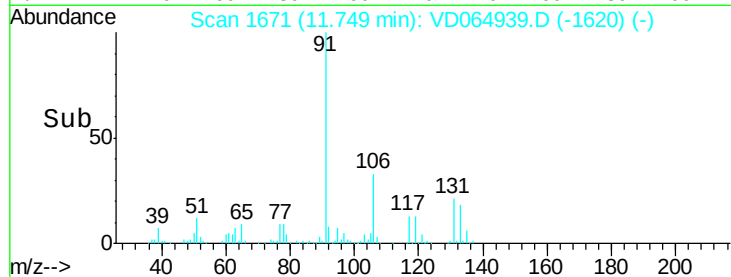
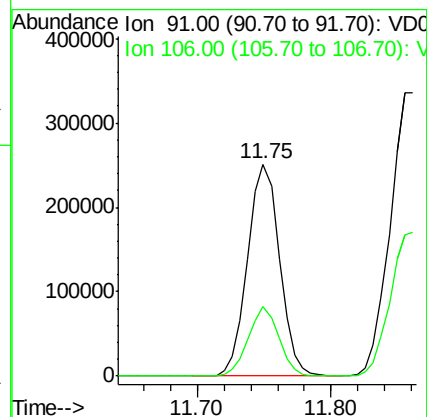
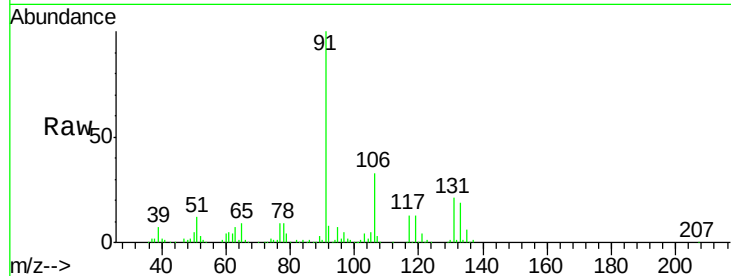
106 32.8 24.3 36.5

Manual Integrations

APPROVED

MMDadoda

1/27/2020 12:03:11 PM



#68

m/p-Xylenes

Concen: 41.034 ug/l

RT: 11.86 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VD064939.D

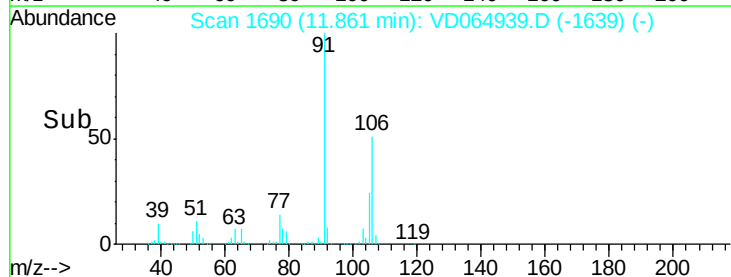
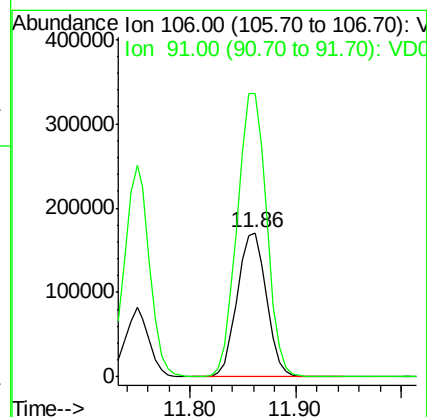
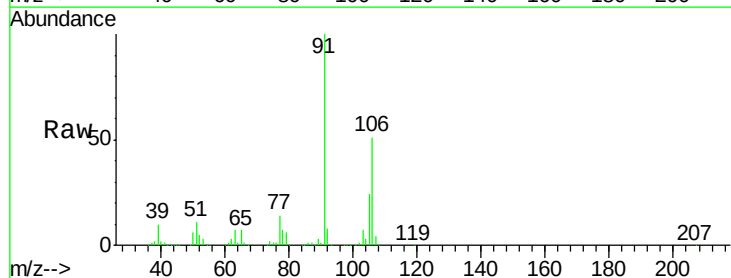
Acq: 24 Jan 2020 13:19

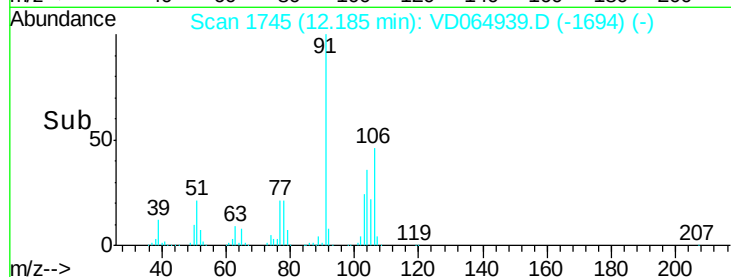
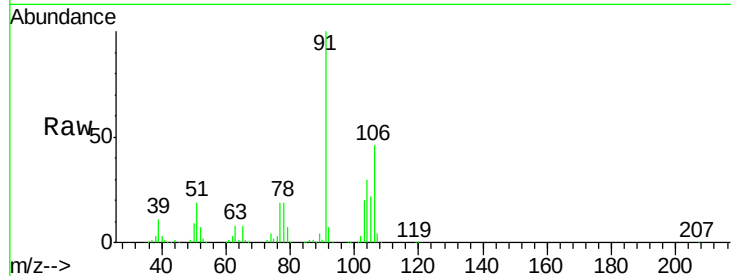
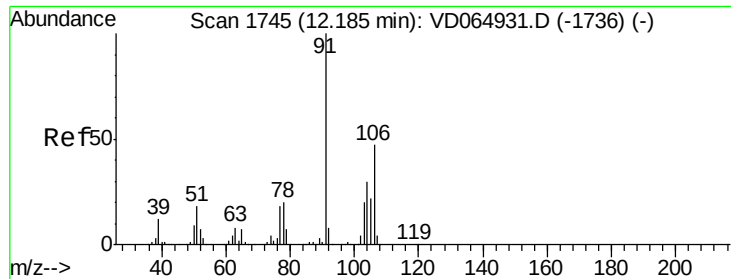
Tgt Ion: 106 Resp: 326545

Ion Ratio Lower Upper

106 100

91 198.4 159.0 238.4





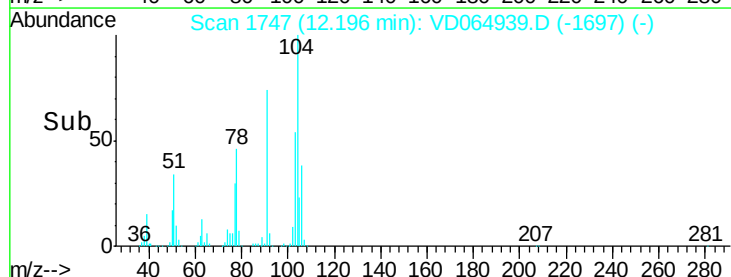
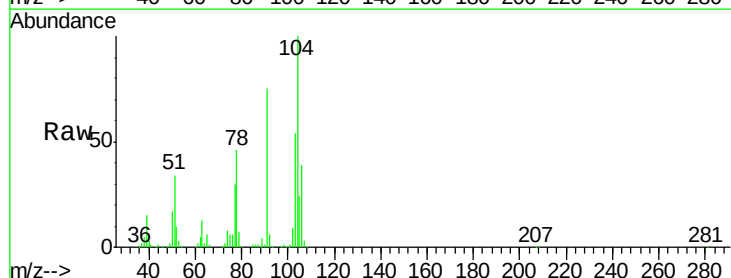
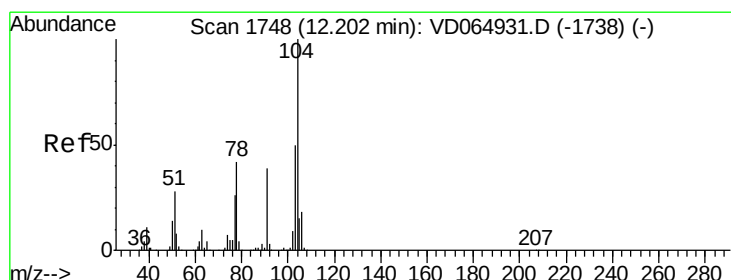
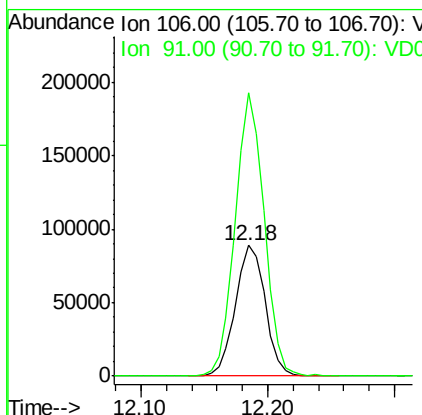
#69
o-Xylene
Concen: 20.534 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tot Ion:106 Resp: 145023
Ion Ratio Lower Upper
106 100
91 210.2 106.7 319.9

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

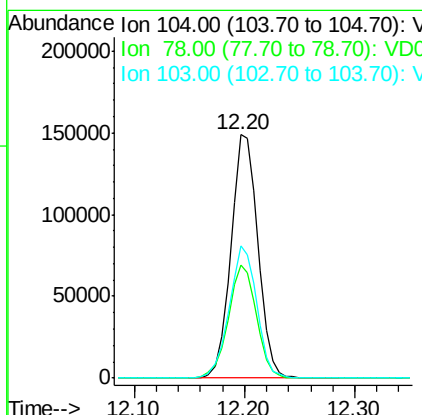
Manual Integrations
APPROVED

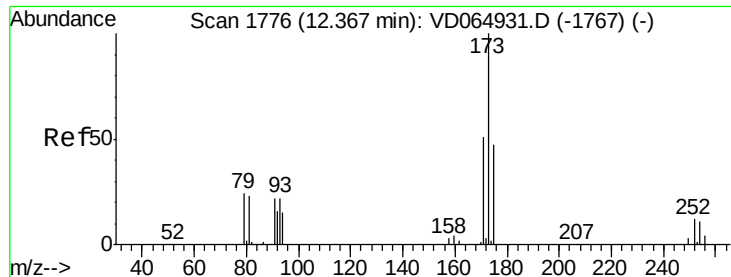
MMDadoda
1/27/2020 12:03:11 PM



#70
Styrene
Concen: 20.276 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion:104 Resp: 255092
Ion Ratio Lower Upper
104 100
78 48.4 38.3 57.5
103 55.7 43.5 65.3





#71

Bromoform

Concen: 20.147 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

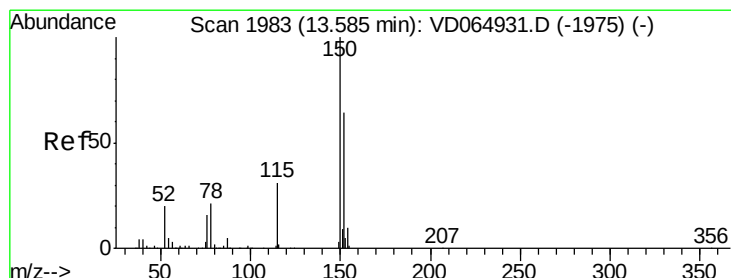
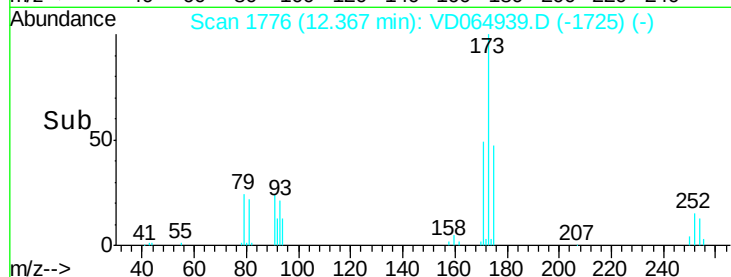
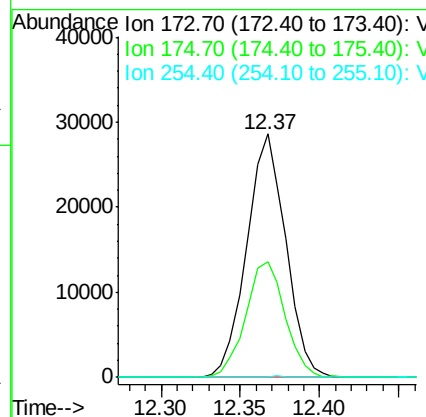
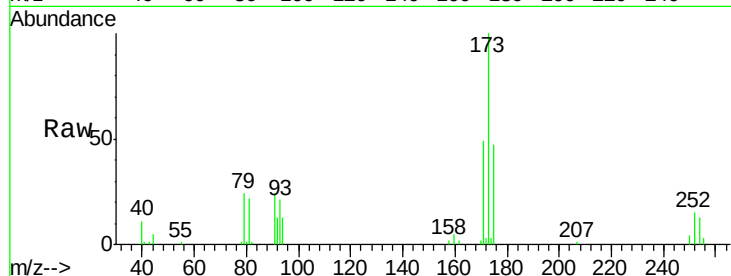
ClientSampleId :

VD0124SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.6	73.8
254	0.1	0.1	0.1

Manual Integrations
APPROVED

MMDadoda
1/27/2020 12:03:11 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

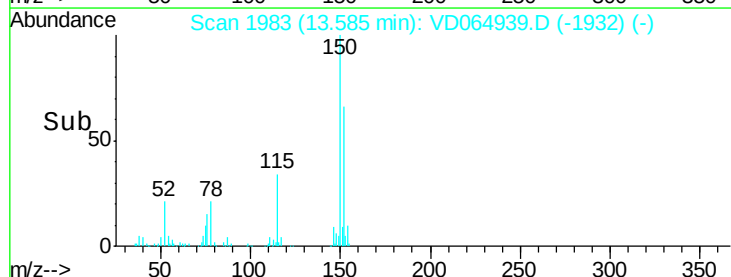
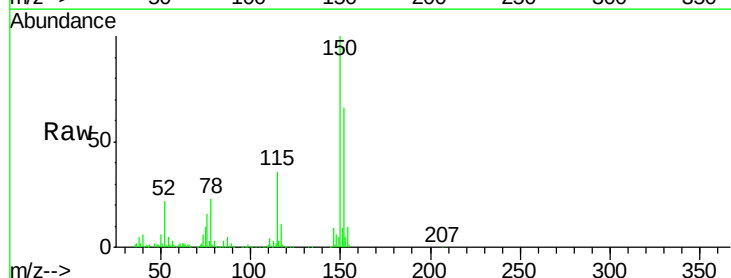
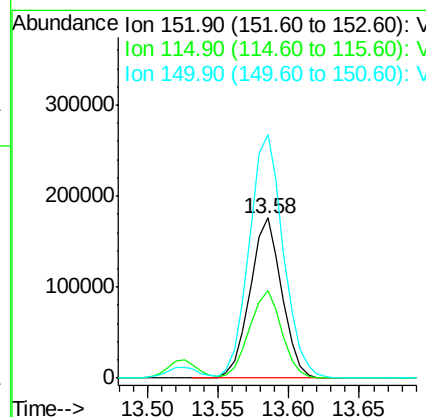
RT: 13.58 min Scan# 1983

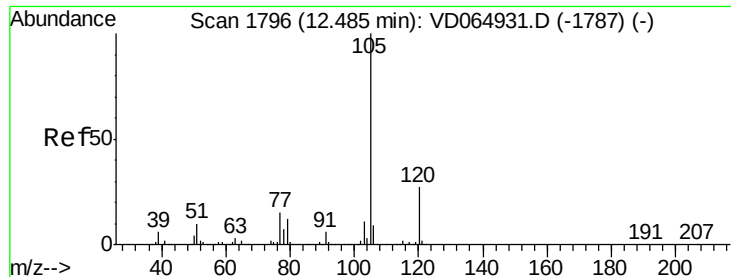
Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	28.1	84.4
150	163.4	0.0	350.4





#73

Isopropylbenzene

Concen: 20.580 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBS01

Tot Ion:105 Resp: 390618

Ion Ratio Lower Upper

105 100

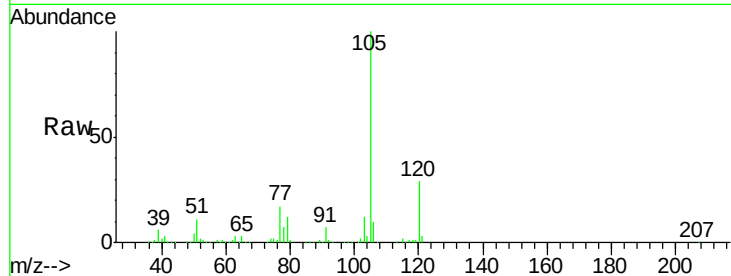
120 27.6 13.3 39.8

Manual Integrations

APPROVED

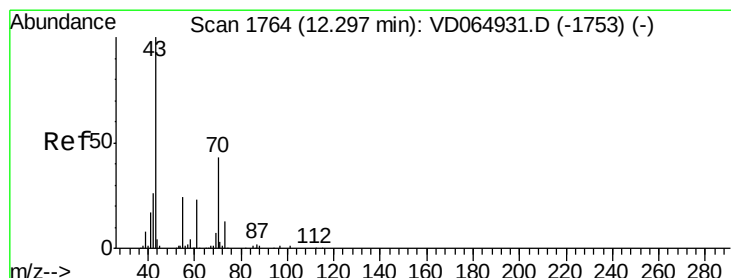
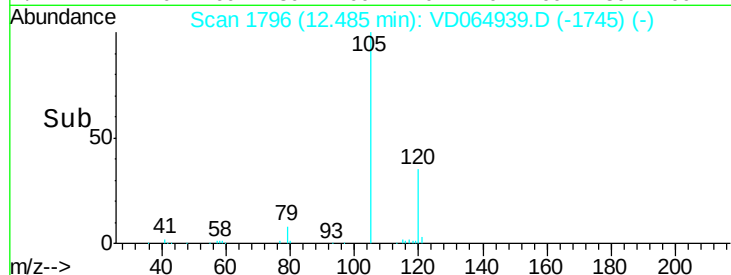
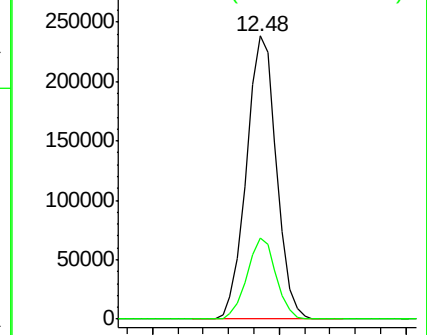
MMDadoda

1/27/2020 12:03:11 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.776 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Tgt Ion: 43 Resp: 83992

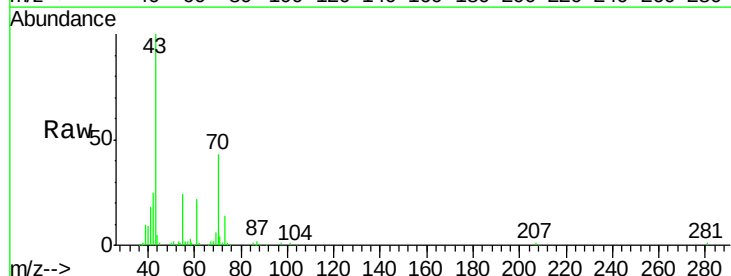
Ion Ratio Lower Upper

43 100

70 41.4 32.6 49.0

55 26.3 19.9 29.9

61 22.6 18.3 27.5

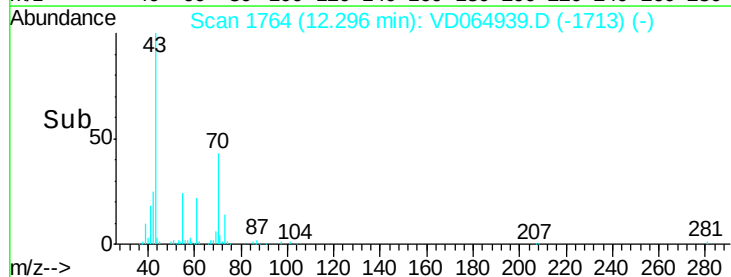
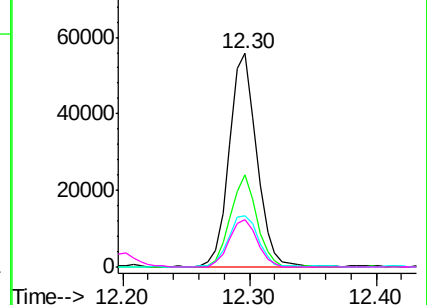


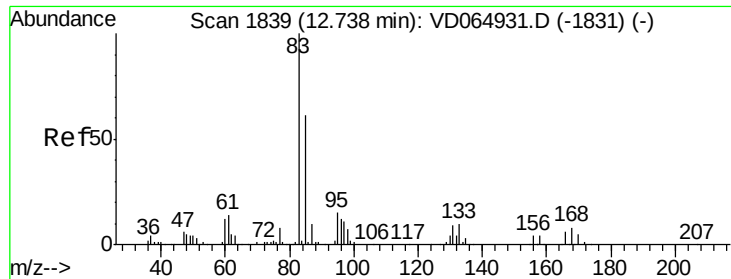
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 20.730 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

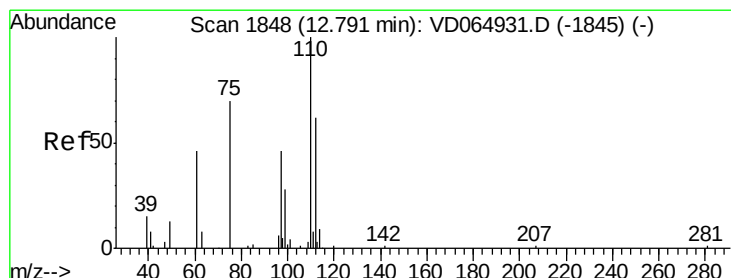
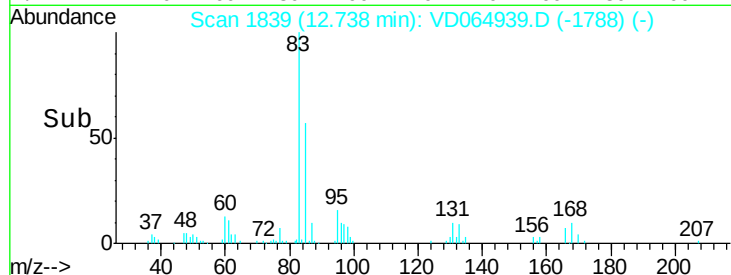
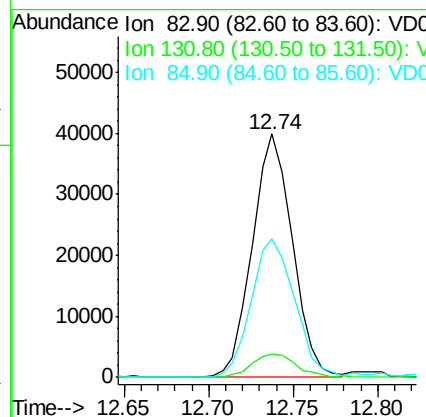
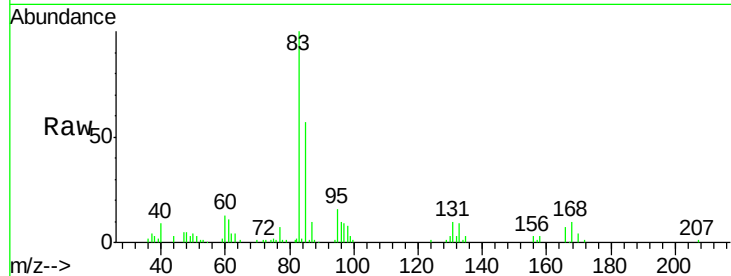
ClientSampleId :

VD0124SBS01

Tot Ion:	83	Resp:	66131
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.5	16.4
85	61.3	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
1/27/2020 12:03:11 PM



#76

1,2,3-Trichloropropane

Concen: 14.987 ug/l m

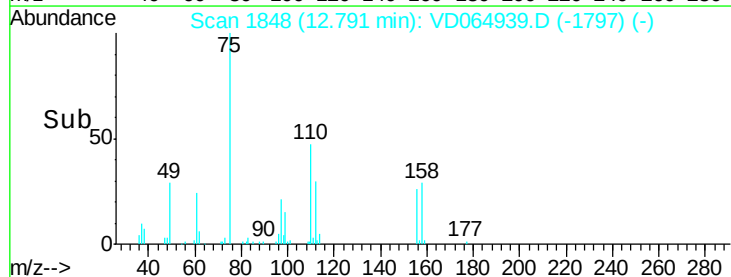
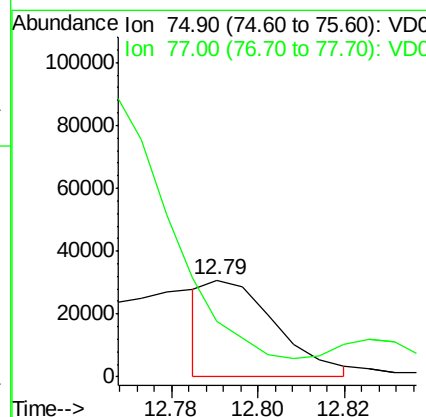
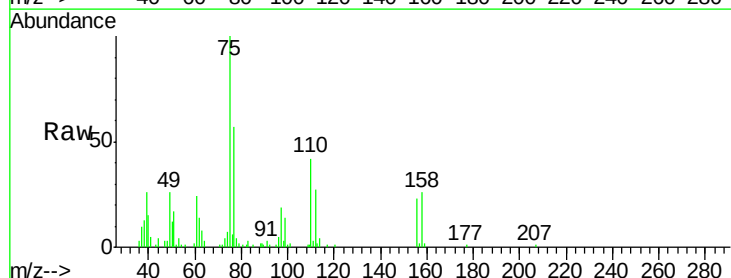
RT: 12.79 min Scan# 1848

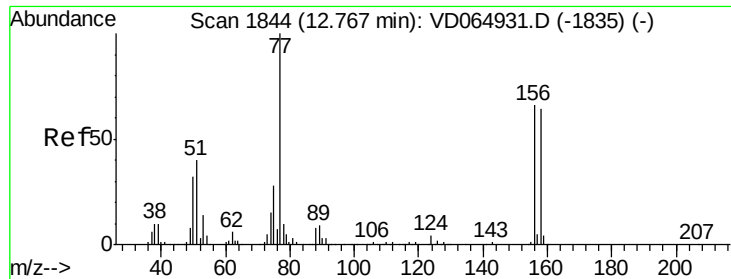
Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Tgt Ion:	75	Resp:	34544
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.136 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

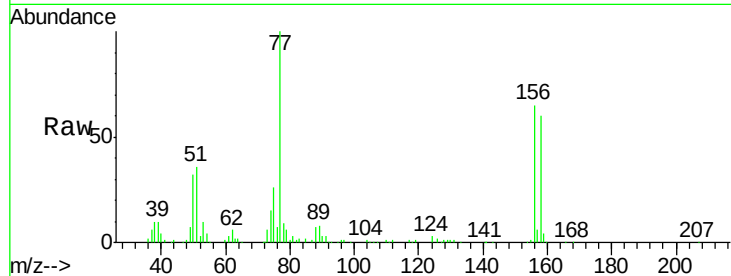
ClientSampleId :

VD0124SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	167.7	84.2	252.5	
158	95.2	48.1	144.4	

Manual Integrations
APPROVED

MMDadoda
1/27/2020 12:03:11 PM

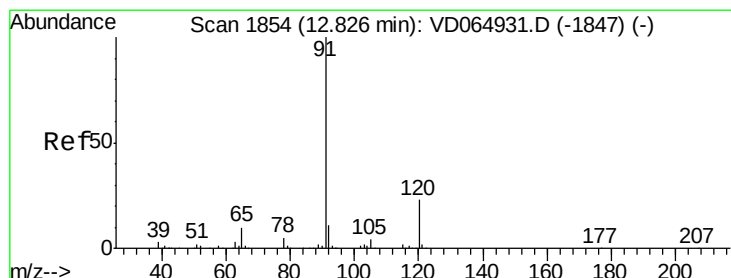
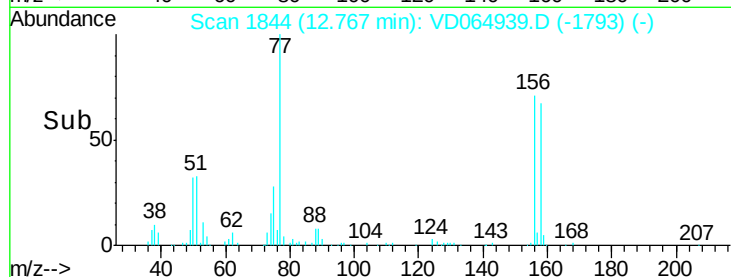
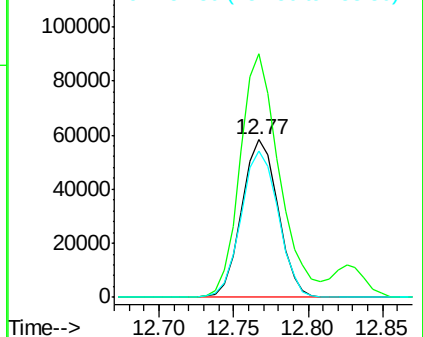


Abundance

Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.677 ug/l

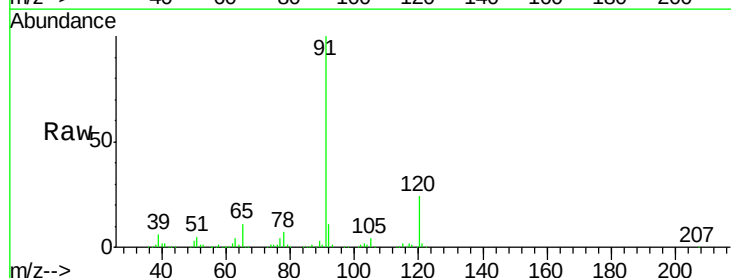
RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

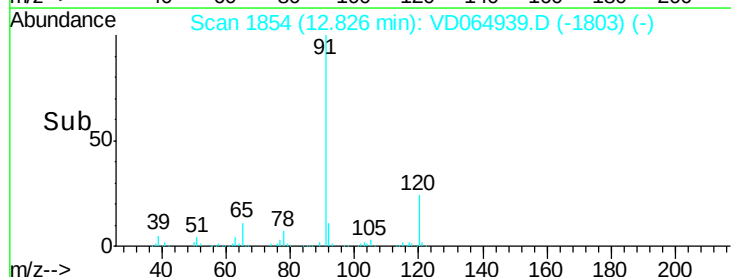
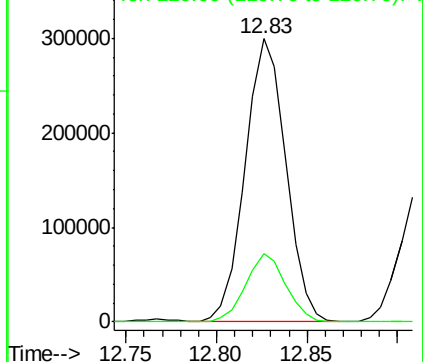
Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.5	11.7	35.1	

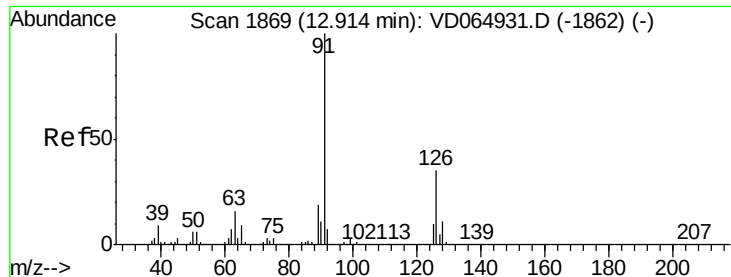


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.068 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBS01

Tot Ion: 91 Resp: 260883

Ion Ratio Lower Upper

91 100

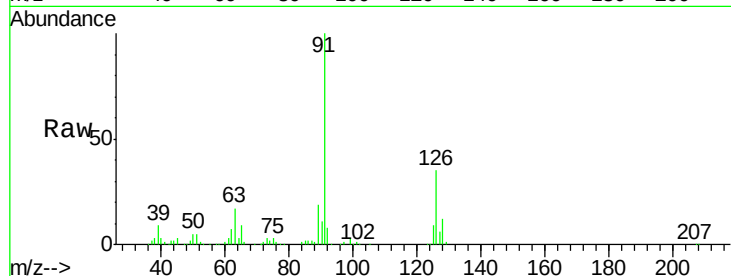
126 35.1 17.9 53.8

Manual Integrations

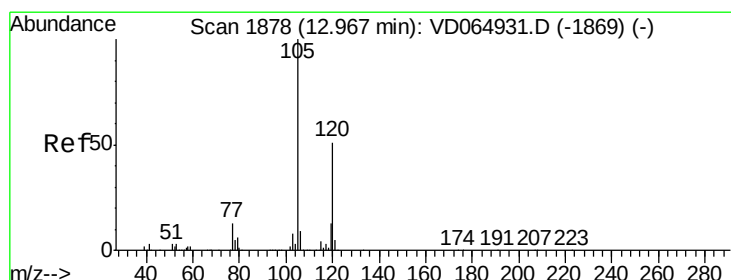
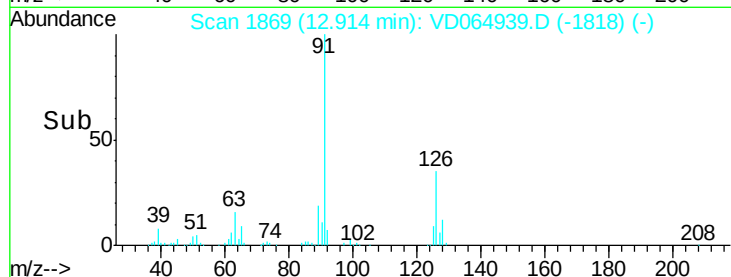
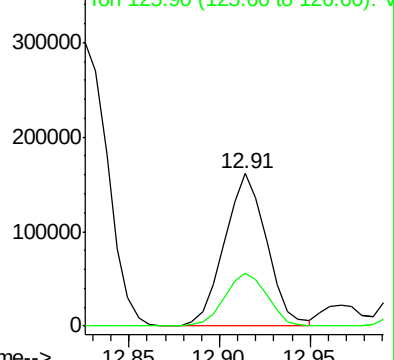
APPROVED

MMDadoda

1/27/2020 12:03:11 PM



Abundance Ion 91.00 (90.70 to 91.70): VD064931.D (-1862) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.312 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD064939.D

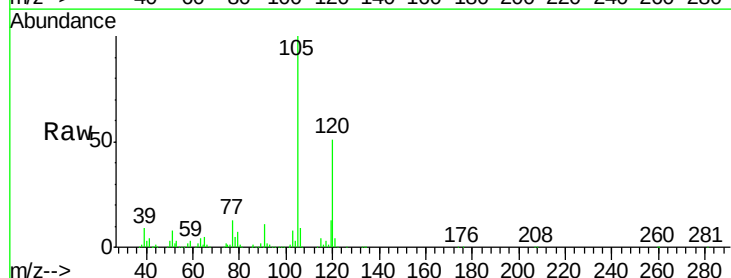
Acq: 24 Jan 2020 13:19

Tgt Ion: 105 Resp: 331495

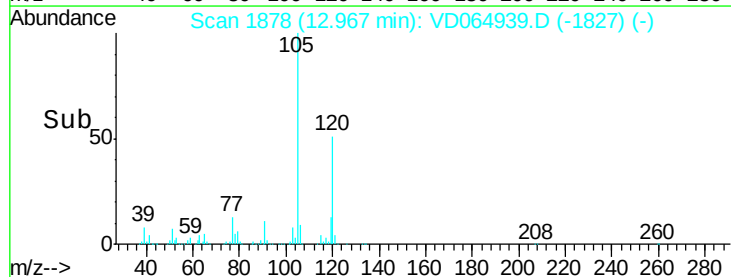
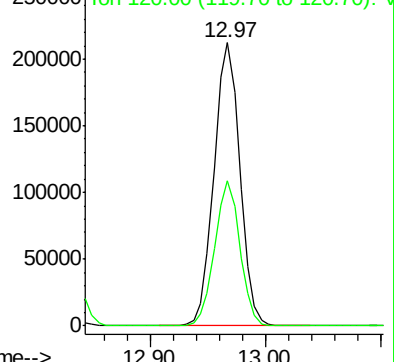
Ion Ratio Lower Upper

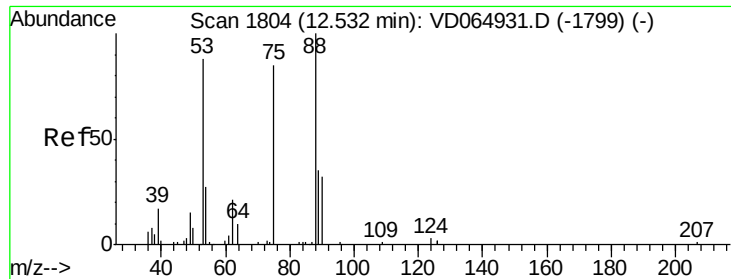
105 100

120 49.9 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VD064931.D (-1869) (-)





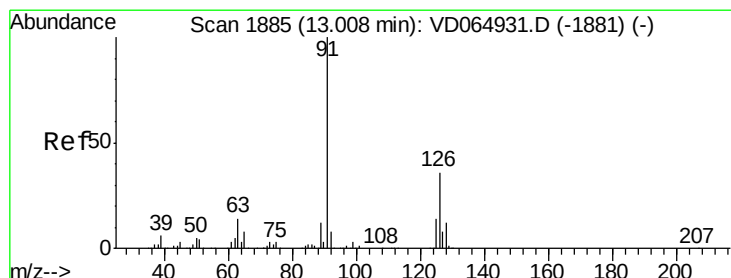
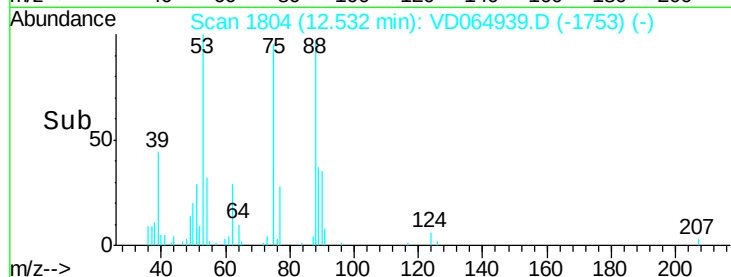
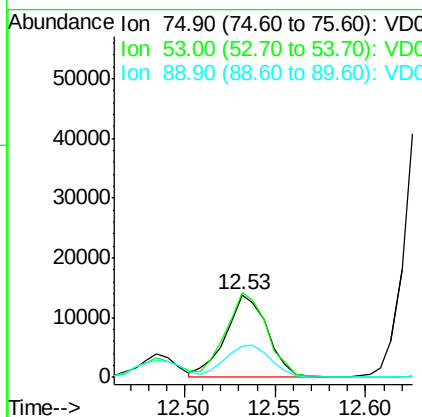
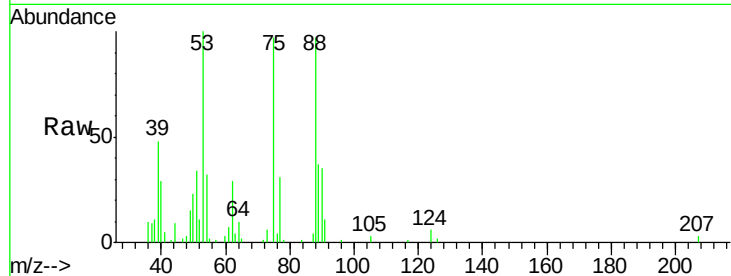
#81
trans-1,4-Dichloro-2-butene
Concen: 20.509 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.7	81.0	121.4
89	41.9	36.2	54.4

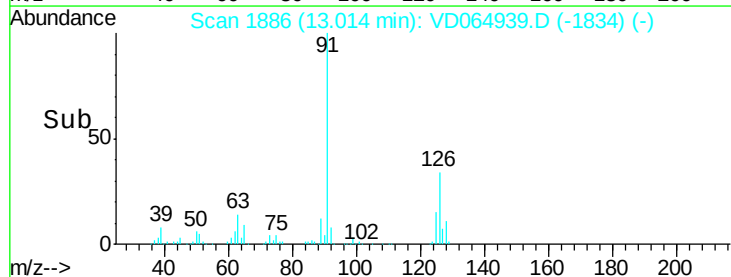
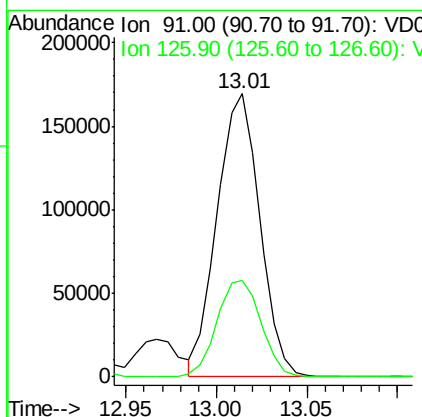
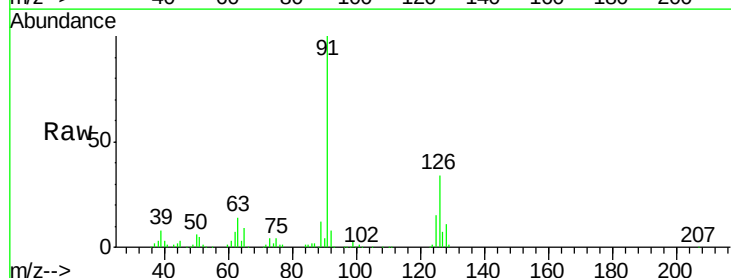
Manual Integrations
APPROVED

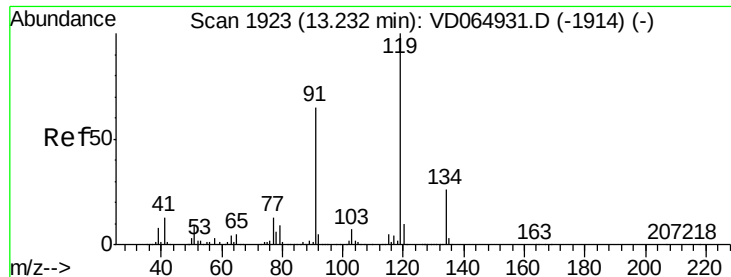
MMDadoda
1/27/2020 12:03:11 PM



#82
4-Chlorotoluene
Concen: 21.152 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.3	18.0	54.0





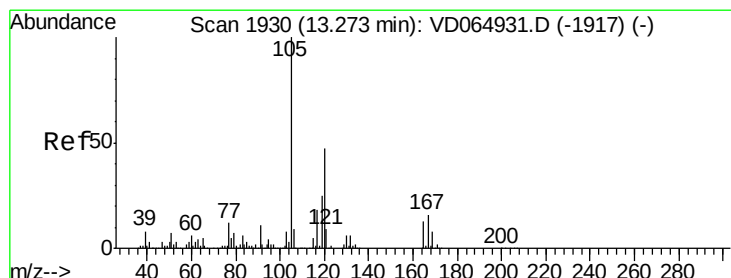
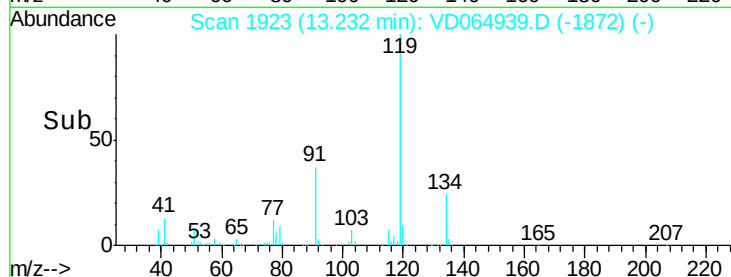
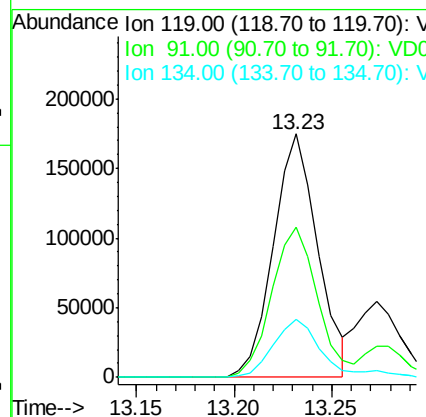
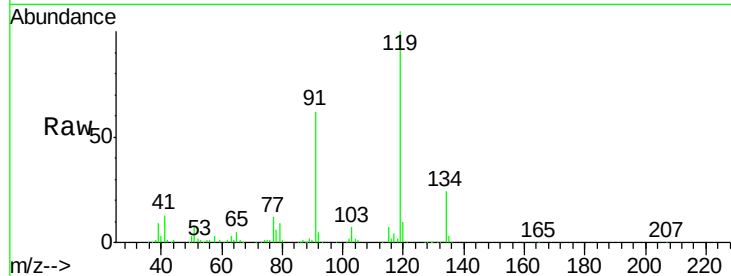
#83
tert-Butylbenzene
Concen: 20.851 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	275225		
91	63.9		32.0	96.0
134	26.4		13.9	41.6

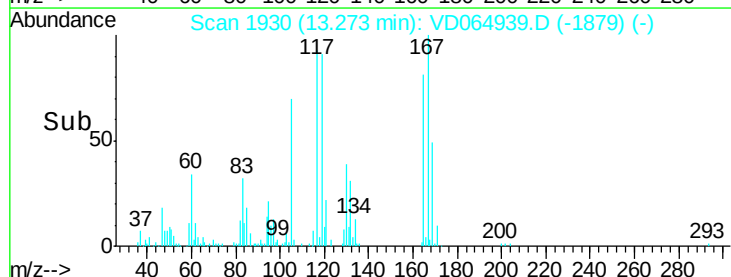
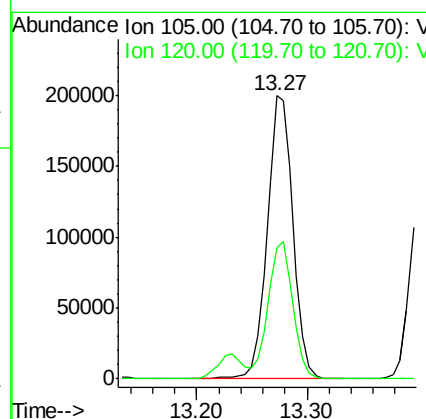
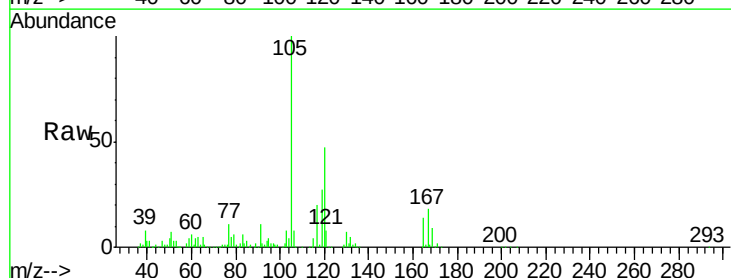
Manual Integrations
APPROVED

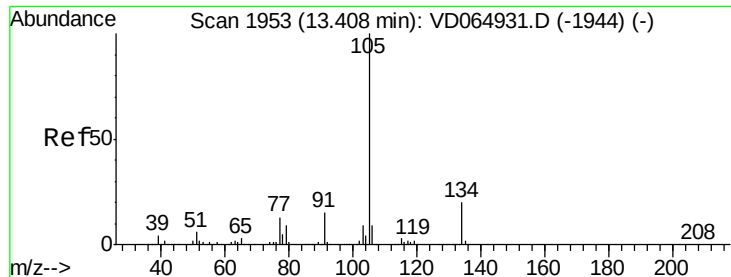
MMDadoda
1/27/2020 12:03:11 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.606 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	324685		
120	46.5		23.1	69.3





#85

sec-Butylbenzene

Concen: 20.511 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

VD0124SBS01

Tot Ion:105 Resp: 383342

Ion Ratio Lower Upper

105 100

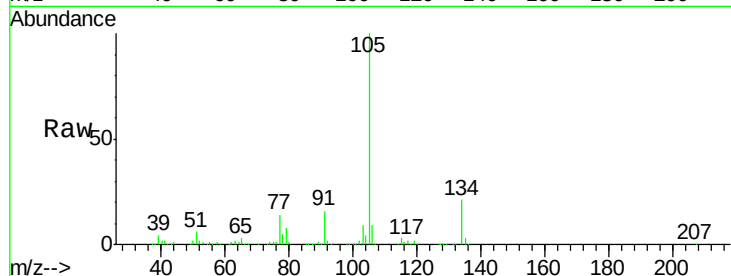
134 21.1 10.4 31.4

Manual Integrations

APPROVED

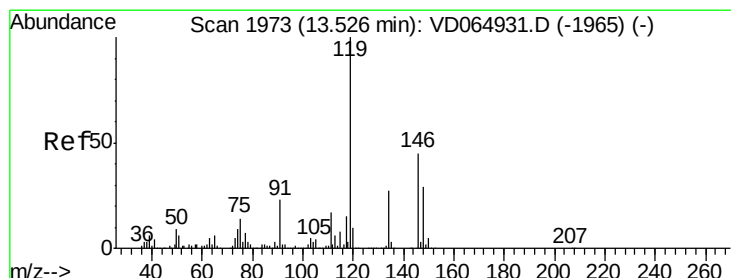
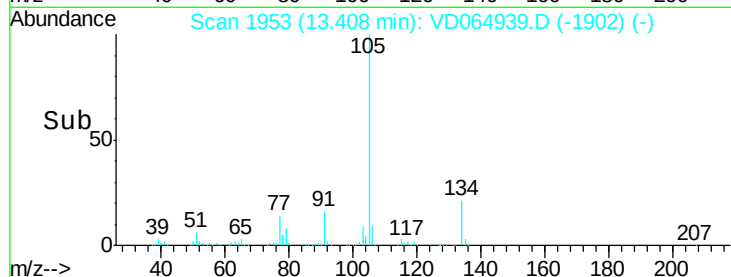
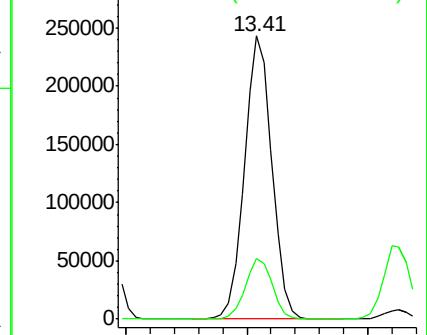
MMDadoda

1/27/2020 12:03:11 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.766 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD064939.D

Acq: 24 Jan 2020 13:19

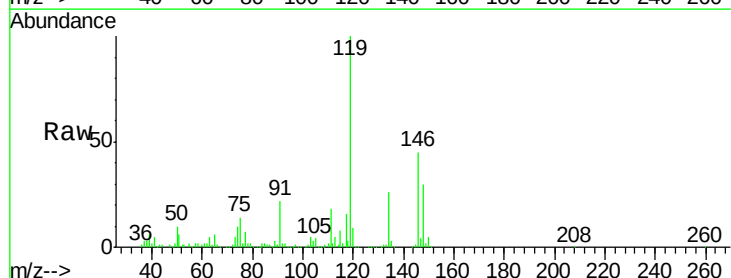
Tgt Ion:119 Resp: 363183

Ion Ratio Lower Upper

119 100

134 27.0 13.3 39.9

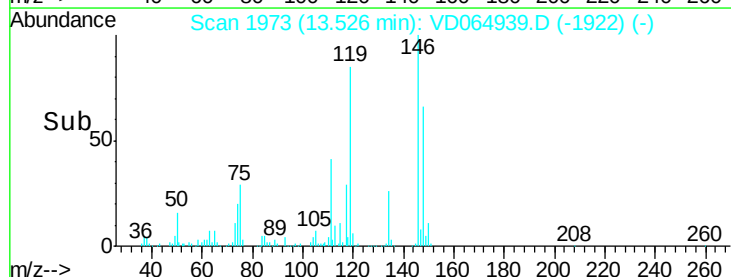
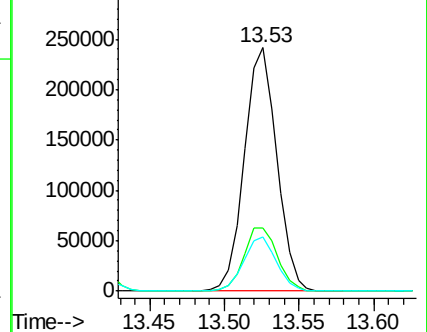
91 22.5 11.4 34.2

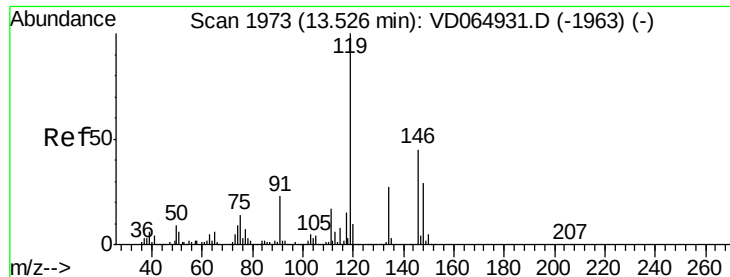


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





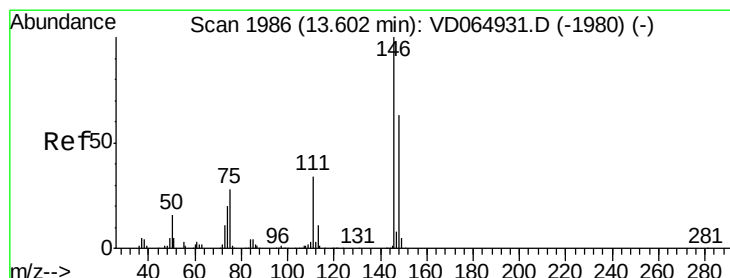
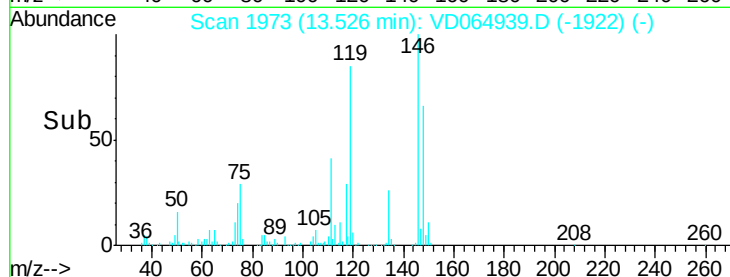
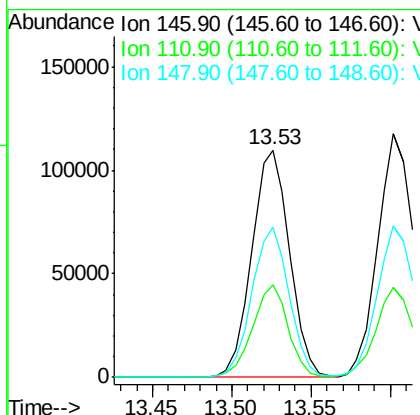
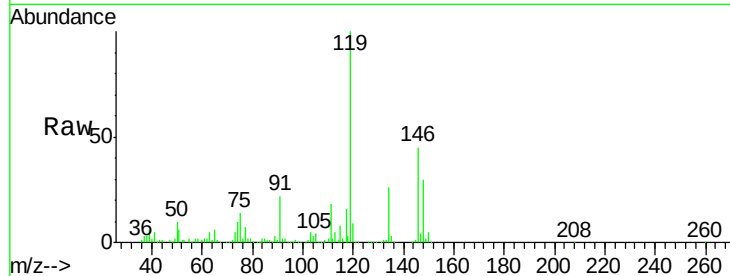
#87
 1,3-Dichlorobenzene
 Concen: 20.412 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	181880		
111	38.4	18.9	56.9	
148	65.5	32.6	97.7	

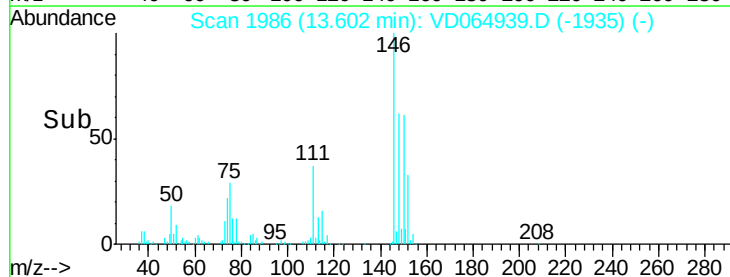
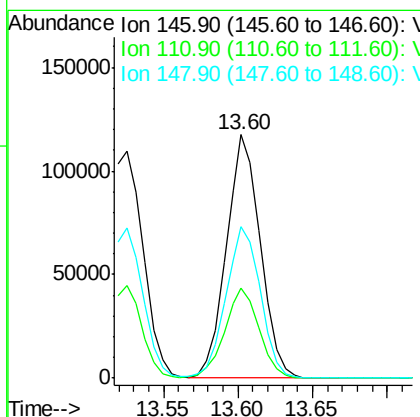
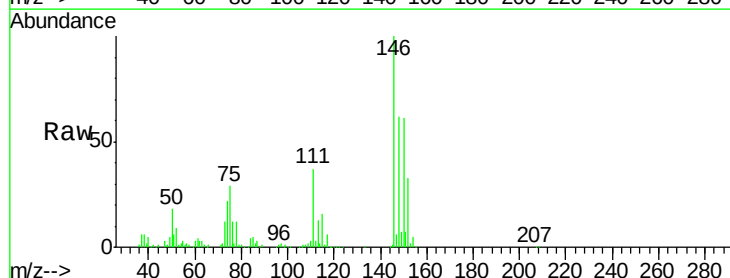
Manual Integrations
 APPROVED

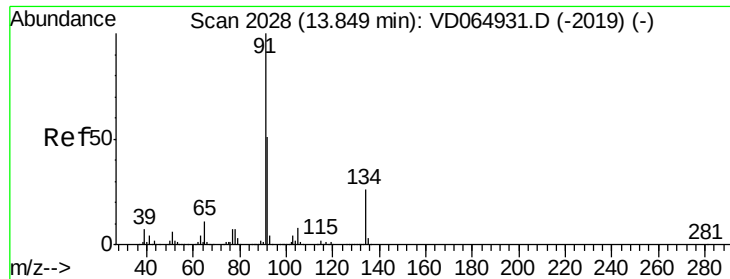
MMDadoda
 1/27/2020 12:03:11 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.085 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	186474		
111	37.7	18.2	54.6	
148	63.3	32.0	96.0	





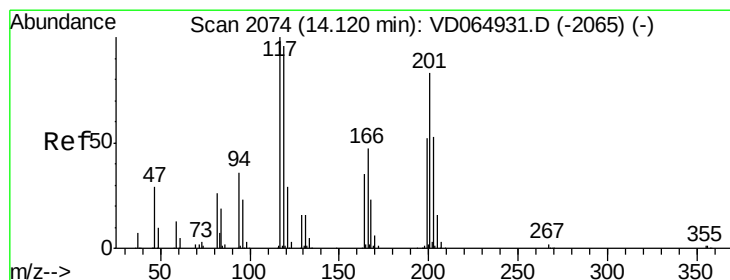
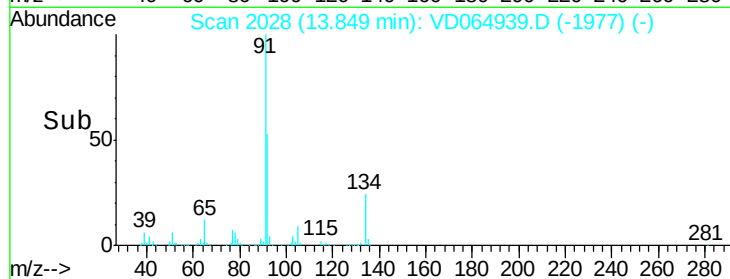
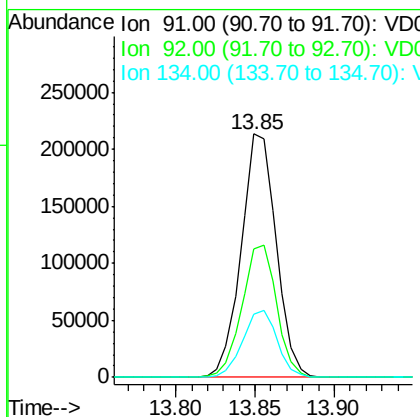
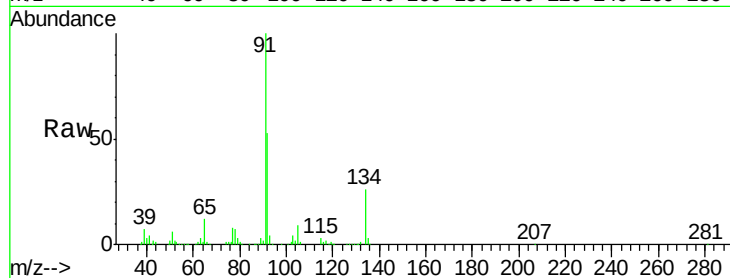
#89
n-Butylbenzene
Concen: 20.507 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.4	79.0
134	27.3	13.3	39.9

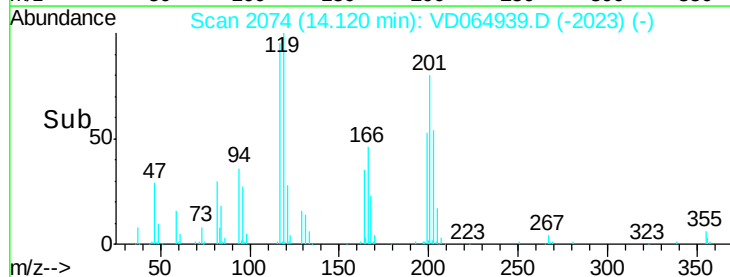
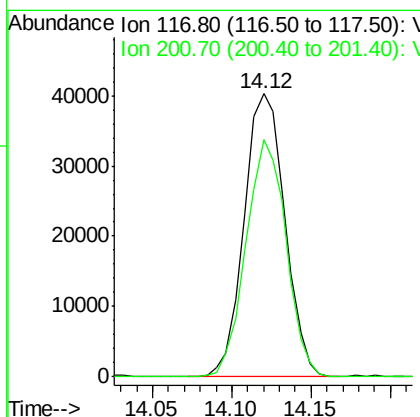
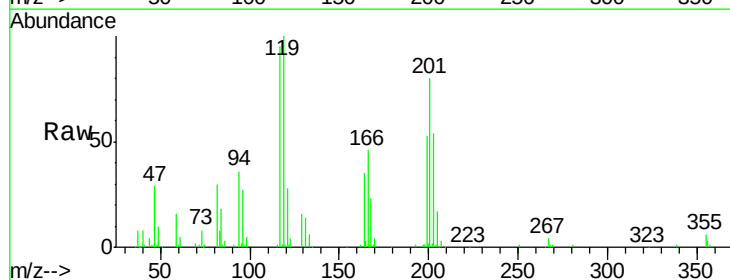
Manual Integrations
APPROVED

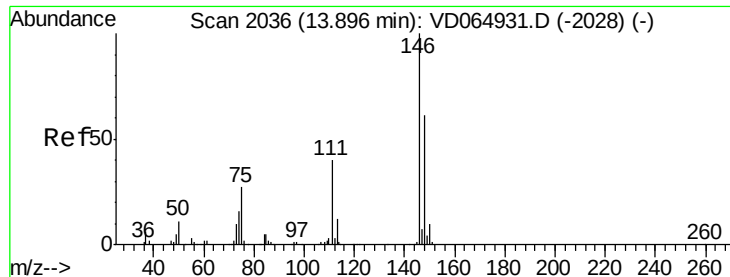
MMDadoda
1/27/2020 12:03:11 PM



#90
Hexachloroethane
Concen: 21.348 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.6	41.1	123.3





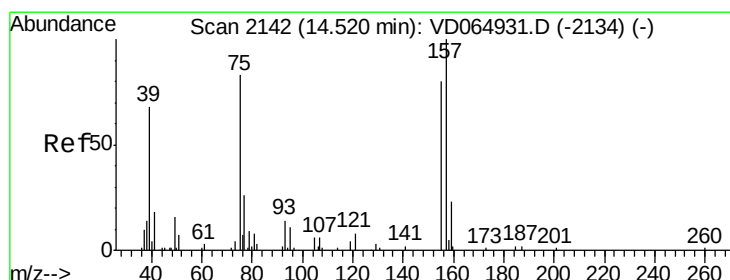
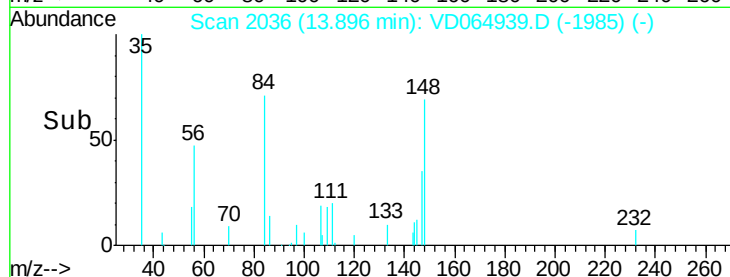
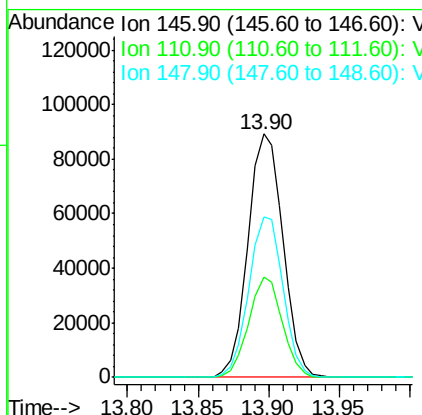
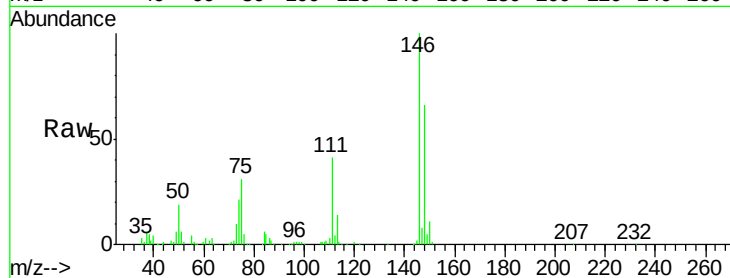
#91
 1,2-Dichlorobenzene
 Concen: 20.540 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.4	58.2
148	64.8	31.6	95.0

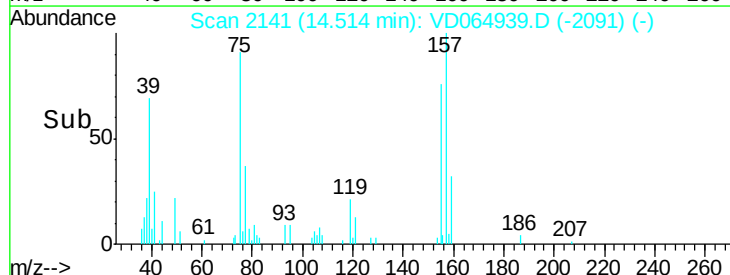
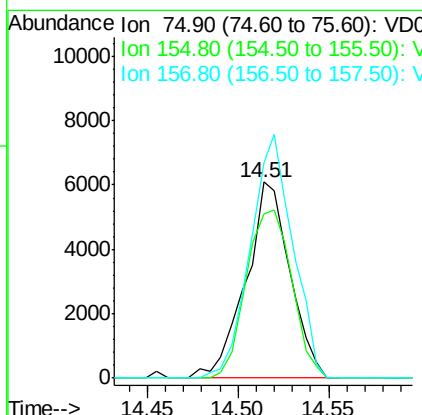
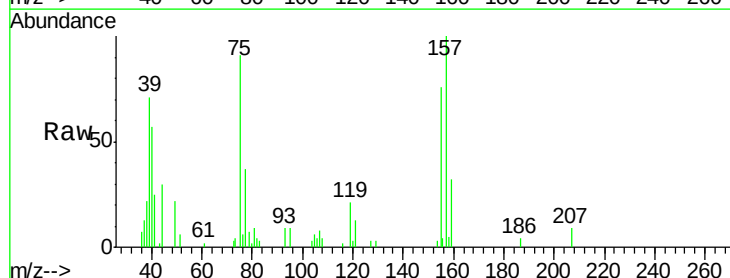
Manual Integrations
 APPROVED

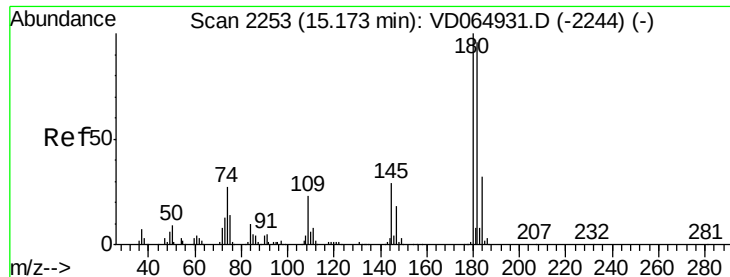
MMDadoda
 1/27/2020 12:03:11 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.225 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.9	44.9	134.7
157	119.0	58.9	176.6





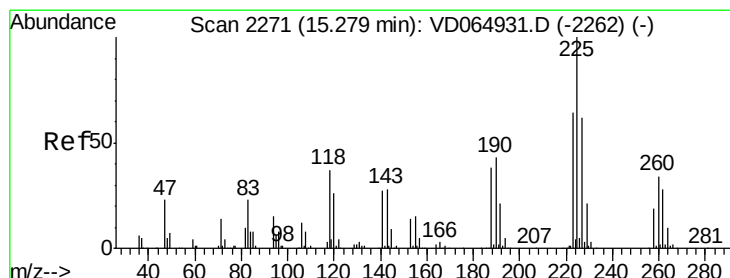
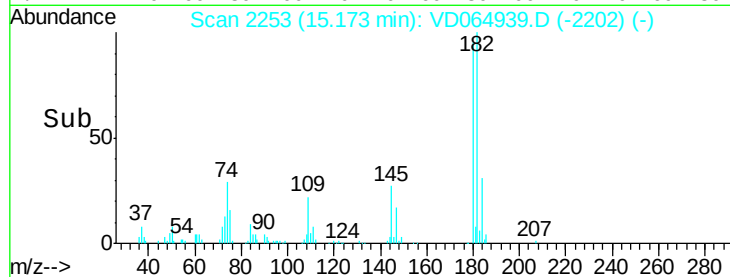
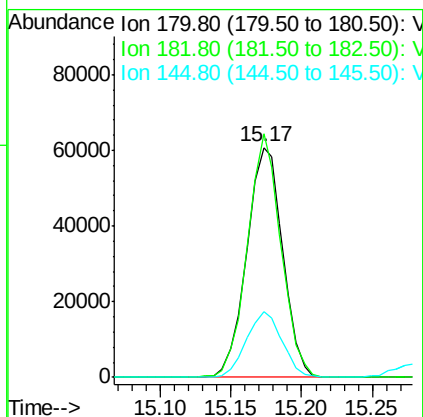
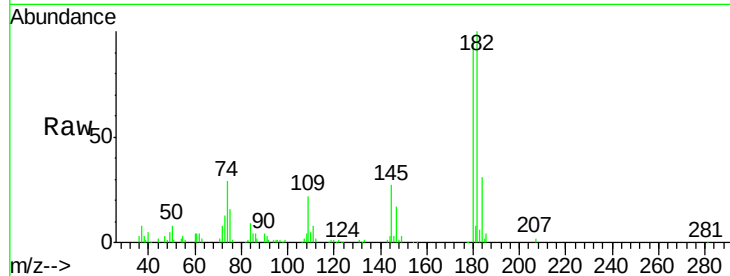
#93
 1,2,4-Trichlorobenzene
 Concen: 20.718 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0124SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	99.1	47.1	141.4	
145	28.3	14.1	42.3	

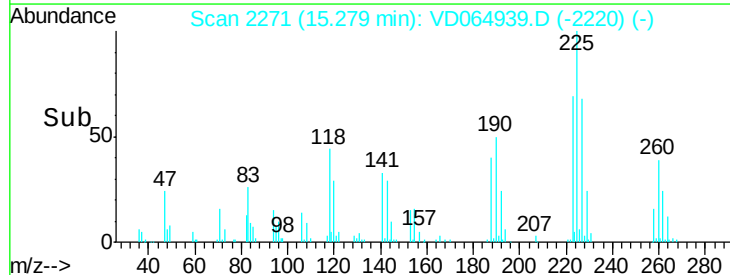
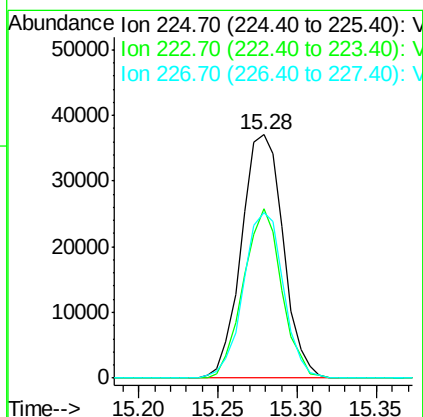
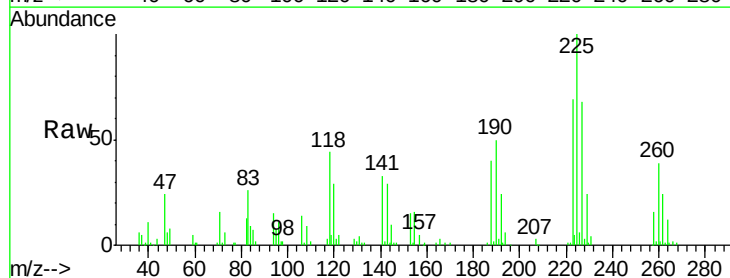
Manual Integrations
 APPROVED

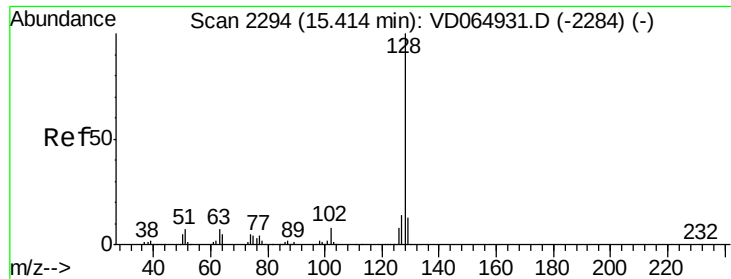
MMDadoda
 1/27/2020 12:03:11 PM



#94
 Hexachlorobutadiene
 Concen: 20.495 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VD064939.D
 Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.8	32.4	97.2	
227	65.4	31.9	95.9	





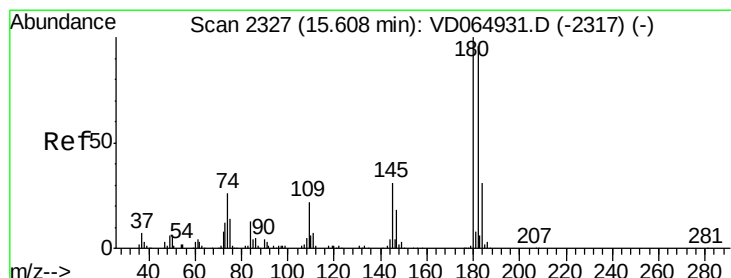
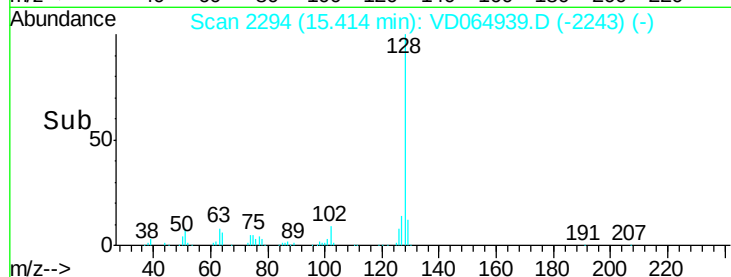
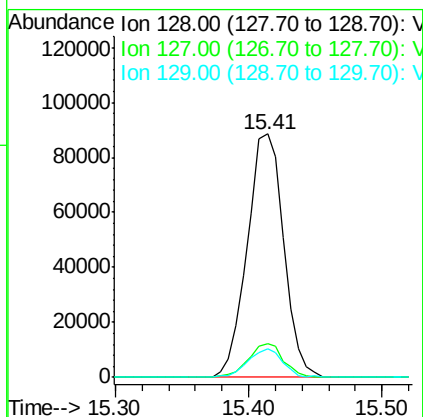
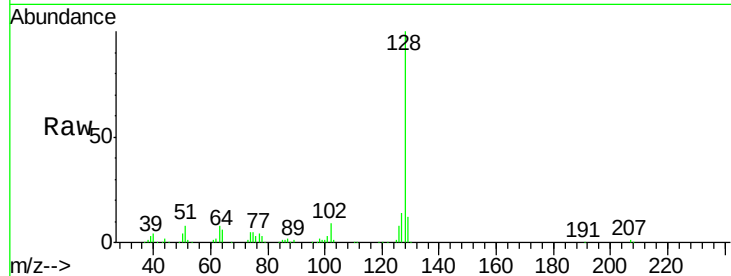
#95
Naphthalene
Concen: 19.771 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
VD0124SBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	15.8
129	11.0	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
1/27/2020 12:03:11 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.801 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. -0.01 min
Lab File: VD064939.D
Acq: 24 Jan 2020 13:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	47.3	141.8
145	29.6	14.6	43.8

