

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012120\
 Data File : VD064903.D
 Acq On : 21 Jan 2020 10:51
 Operator : VA/SY
 Sample : VD0121SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/22/2020 10:49:24 AM

Quant Time: Jan 22 06:07:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	337966	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	483156	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	428507	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	214863	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	151148	50.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.44%	
35) Dibromofluoromethane	7.91	113	152161	51.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.66%	
50) Toluene-d8	10.34	98	554989	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	
62) 4-Bromofluorobenzene	12.64	95	174650	48.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	56533	21.524	ug/l	98
3) Chloromethane	2.21	50	82383	22.428	ug/l	100
4) Vinyl Chloride	2.35	62	96688	21.588	ug/l	95
5) Bromomethane	2.77	94	67165	20.625	ug/l	99
6) Chloroethane	2.92	64	67637	22.538	ug/l	99
7) Trichlorofluoromethane	3.27	101	166044	22.018	ug/l	97
8) Diethyl Ether	3.71	74	33248	22.202	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.09	101	78120	25.013	ug/l	97
10) Methyl Iodide	4.30	142	67485	20.116	ug/l	96
11) Tert butyl alcohol	5.25	59	22354	130.883	ug/l #	70
12) 1,1-Dichloroethene	4.06	96	68554	23.056	ug/l	92
13) Acrolein	3.92	56	16000	67.219	ug/l	99
14) Allyl chloride	4.71	41	112502	24.268	ug/l	99
15) Acrylonitrile	5.42	53	68412	109.675	ug/l	98
16) Acetone	4.17	43	78021	119.059	ug/l #	86
17) Carbon Disulfide	4.40	76	209864	21.828	ug/l	97
18) Methyl Acetate	4.72	43	37097	22.111	ug/l	100
19) Methyl tert-butyl Ether	5.48	73	146133	22.127	ug/l	95
20) Methylene Chloride	4.97	84	101136	31.361	ug/l	97
21) trans-1,2-Dichloroethene	5.46	96	79255	23.405	ug/l	96
22) Diisopropyl ether	6.37	45	222060	24.015	ug/l	96
23) Vinyl Acetate	6.31	43	572886	109.220	ug/l	99
24) 1,1-Dichloroethane	6.27	63	138566	24.962	ug/l	96
25) 2-Butanone	7.22	43	91204	111.337	ug/l	99
26) 2,2-Dichloropropane	7.21	77	129828	25.155	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	82768	22.648	ug/l	95
28) Bromochloromethane	7.54	49	45027	20.867	ug/l	99
29) Tetrahydrofuran	7.57	42	54124	106.246	ug/l	97
30) Chloroform	7.71	83	139956	24.031	ug/l	97
31) Cyclohexane	7.98	56	126745	22.810	ug/l	96
32) 1,1,1-Trichloroethane	7.90	97	137228	25.086	ug/l	98
36) 1,1-Dichloropropene	8.11	75	111803	24.042	ug/l	99
37) Ethyl Acetate	7.30	43	39038	21.368	ug/l	97
38) Carbon Tetrachloride	8.10	117	119657	24.131	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012120\
 Data File : VD064903.D
 Acq On : 21 Jan 2020 10:51
 Operator : VA/SY
 Sample : VD0121SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/22/2020 10:49:24 AM

Quant Time: Jan 22 06:07:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	128143	22.751	ug/l	98
40) Benzene	8.35	78	306088	24.111	ug/l	99
41) Methacrylonitrile	7.53	41	23718	22.376	ug/l	92
42) 1,2-Dichloroethane	8.43	62	90014	24.537	ug/l	100
43) Isopropyl Acetate	8.46	43	76555	21.053	ug/l	97
44) Trichloroethene	9.11	130	86778	23.269	ug/l	99
45) 1,2-Dichloropropane	9.39	63	75164	24.798	ug/l	99
46) Dibromomethane	9.48	93	40105	23.732	ug/l	96
47) Bromodichloromethane	9.66	83	108007	24.018	ug/l	97
48) Methyl methacrylate	9.46	41	36235	21.163	ug/l	92
49) 1,4-Dioxane	9.47	88	7825	401.568	ug/l #	93
51) 4-Methyl-2-Pentanone	10.23	43	193366	107.584	ug/l	99
52) Toluene	10.41	92	196631	23.608	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	95600	22.802	ug/l	97
54) cis-1,3-Dichloropropene	10.09	75	118856	24.043	ug/l	96
55) 1,1,2-Trichloroethane	10.80	97	51793	22.741	ug/l	92
56) Ethyl methacrylate	10.66	69	58697	20.637	ug/l	98
57) 1,3-Dichloropropane	10.95	76	91892	23.434	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	130415	120.348	ug/l	97
59) 2-Hexanone	10.99	43	135887	111.393	ug/l	97
60) Dibromochloromethane	11.14	129	71512	22.706	ug/l	98
61) 1,2-Dibromoethane	11.25	107	49805	22.172	ug/l	99
64) Tetrachloroethene	10.87	164	75418	22.941	ug/l	92
65) Chlorobenzene	11.67	112	208740	23.471	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.75	131	75755	22.595	ug/l	98
67) Ethyl Benzene	11.75	91	370633	22.960	ug/l	99
68) m/p-Xylenes	11.86	106	283732	45.538	ug/l	98
69) o-Xylene	12.18	106	127413	22.640	ug/l	99
70) Styrene	12.20	104	226091	22.887	ug/l	98
71) Bromoform	12.37	173	40996	21.442	ug/l #	98
73) Isopropylbenzene	12.48	105	355000	23.120	ug/l	99
74) N-amyl acetate	12.30	43	66245	20.183	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	53088	22.009	ug/l	97
76) 1,2,3-Trichloropropane	12.79	75	34496m	20.331	ug/l	
77) Bromobenzene	12.77	156	84902	22.503	ug/l	99
78) n-propylbenzene	12.83	91	421271	23.518	ug/l	99
79) 2-Chlorotoluene	12.91	91	222419	22.603	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	294546	23.352	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	16838	20.756	ug/l	97
82) 4-Chlorotoluene	13.01	91	237653	22.694	ug/l	98
83) tert-Butylbenzene	13.23	119	248842	22.723	ug/l	98
84) 1,2,4-Trimethylbenzene	13.28	105	287913	22.920	ug/l	99
85) sec-Butylbenzene	13.41	105	351425	23.407	ug/l	99
86) p-Isopropyltoluene	13.53	119	325459	22.671	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	161583	22.466	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	162480	22.996	ug/l	99
89) n-Butylbenzene	13.85	91	297068	22.979	ug/l	99
90) Hexachloroethane	14.12	117	63831	23.277	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	136695	22.289	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.52	75	8508	21.758	ug/l	86

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012120\
Data File : VD064903.D
Acq On : 21 Jan 2020 10:51
Operator : VA/SY
Sample : VD0121SBS01
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

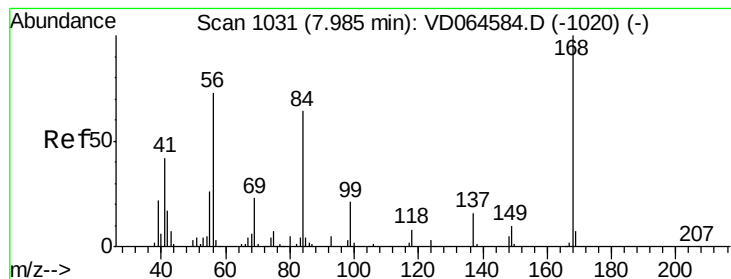
Manual Integrations
APPROVED

MMDadoda
1/22/2020 10:49:24 AM

Quant Time: Jan 22 06:07:04 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	95840	21.223	ug/l	97
94) Hexachlorobutadiene	15.28	225	62840	22.114	ug/l	95
95) Naphthalene	15.41	128	135695	18.994	ug/l	100
96) 1,2,3-Trichlorobenzene	15.61	180	78932	20.475	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion:168 Resp: 337966

Ion Ratio Lower Upper

168 100

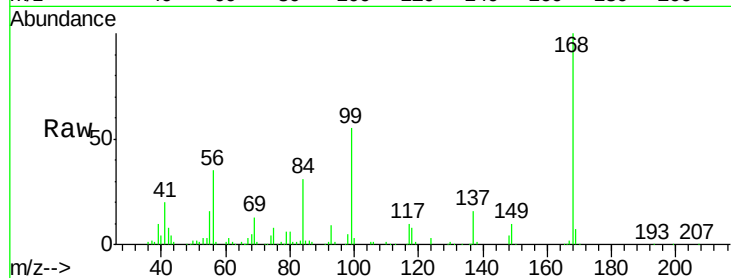
99 54.4 41.8 62.6

Manual Integrations

APPROVED

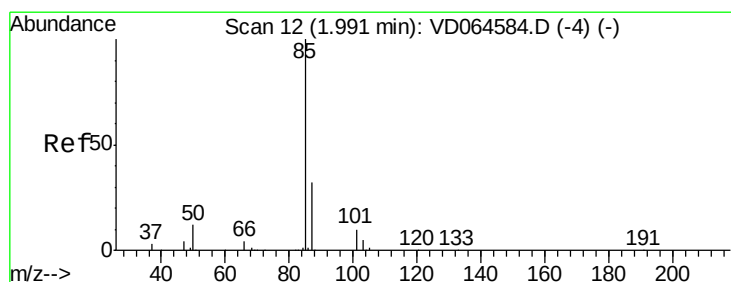
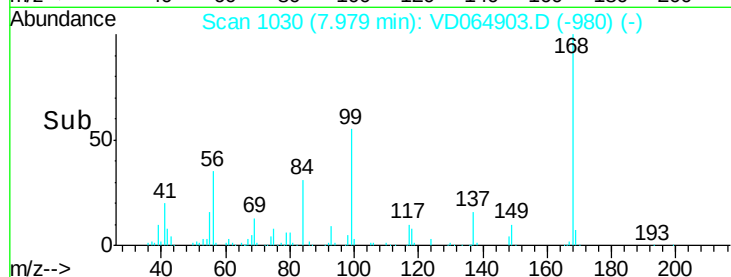
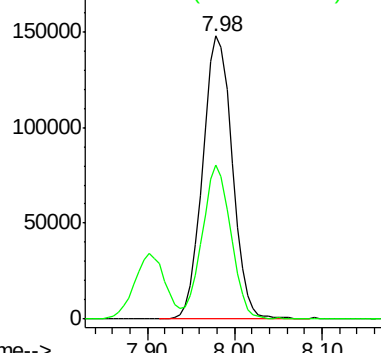
MMDadoda

1/22/2020 10:49:24 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 21.524 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064903.D

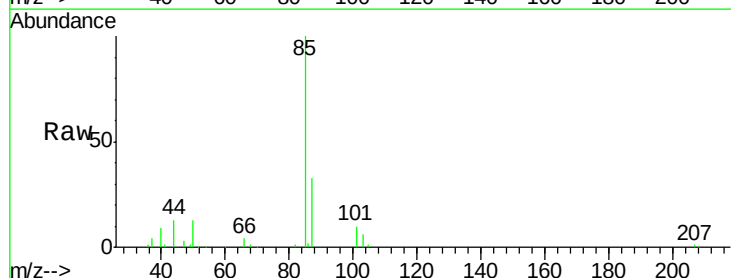
Acq: 21 Jan 2020 10:51

Tgt Ion: 85 Resp: 56533

Ion Ratio Lower Upper

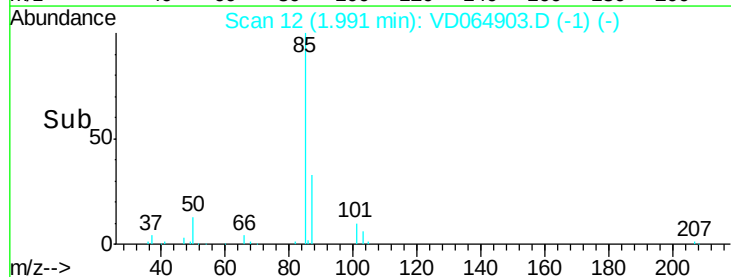
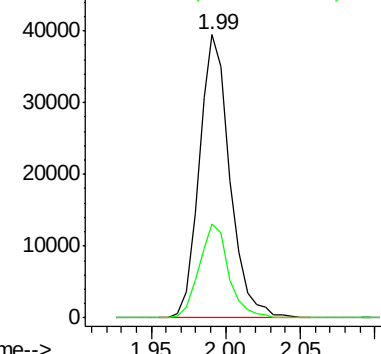
85 100

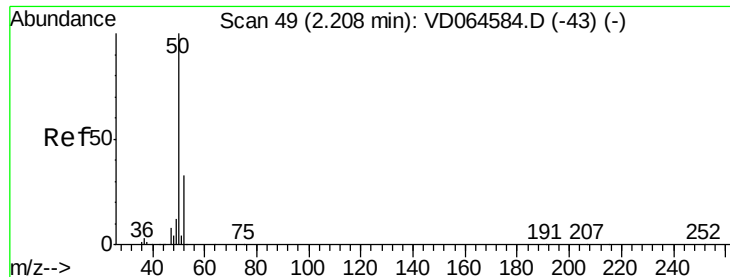
87 33.0 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 22.428 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 50 Resp: 82383

Ion Ratio Lower Upper

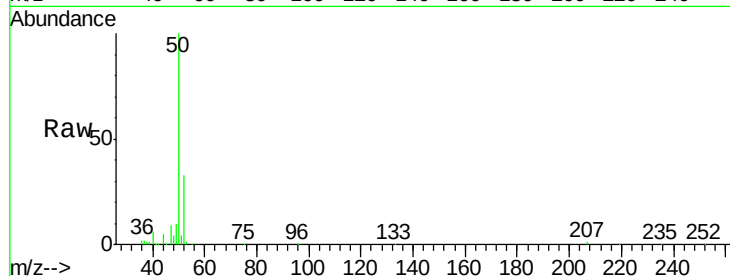
50 100

52 32.9 26.5 39.7

Manual Integrations
APPROVED

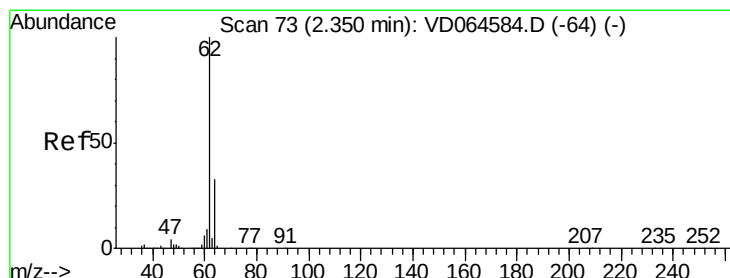
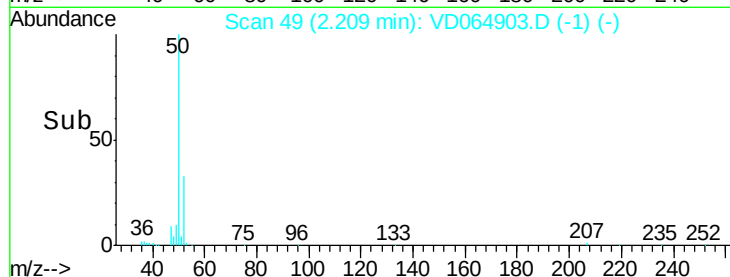
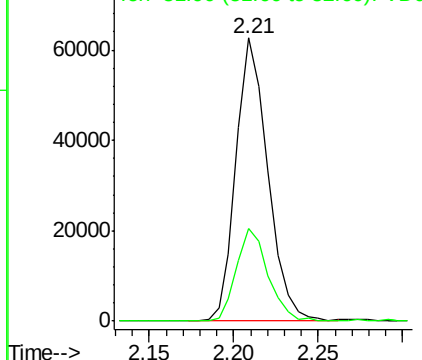
MMDadoda

1/22/2020 10:49:24 AM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.588 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064903.D

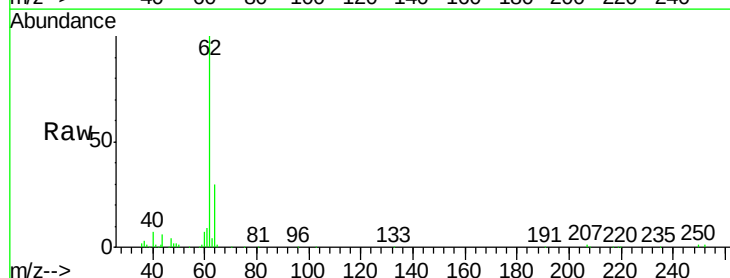
Acq: 21 Jan 2020 10:51

Tgt Ion: 62 Resp: 96688

Ion Ratio Lower Upper

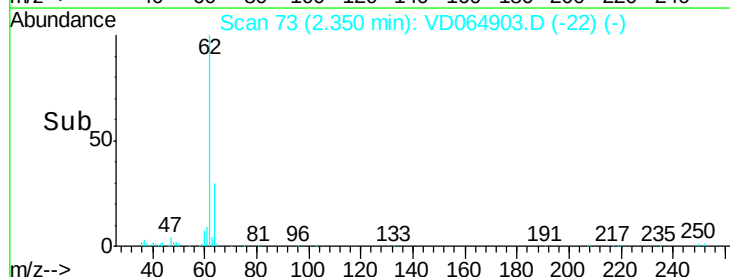
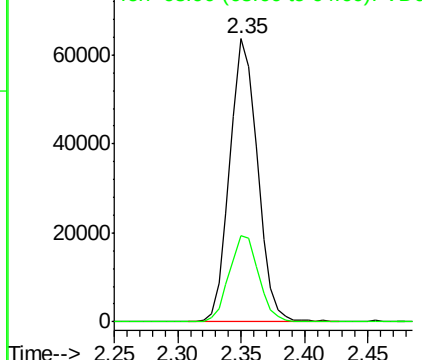
62 100

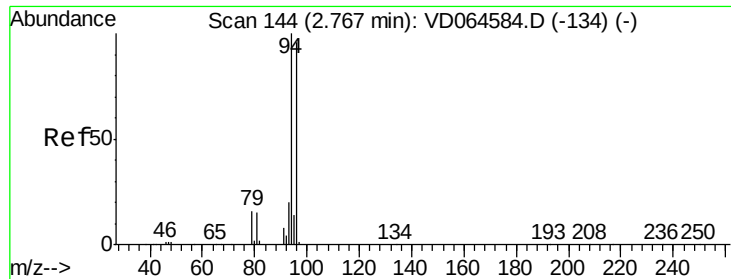
64 30.3 26.6 40.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 20.625 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 94 Resp: 67165

Ion Ratio Lower Upper

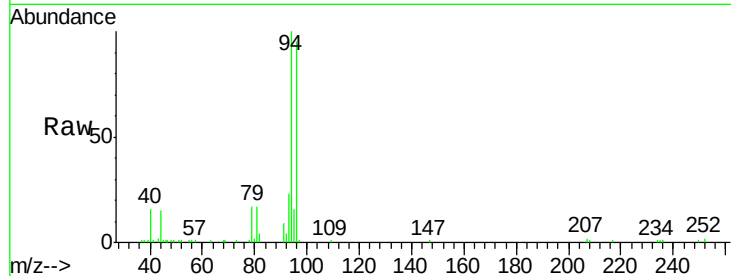
94 100

96 95.4 77.2 115.8

Manual Integrations
APPROVED

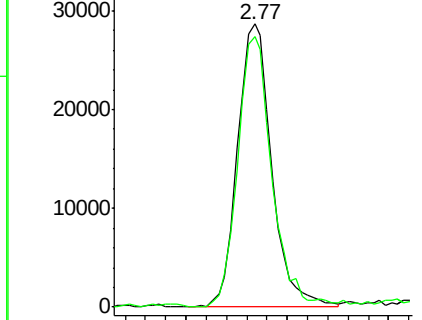
MMDadoda

1/22/2020 10:49:24 AM

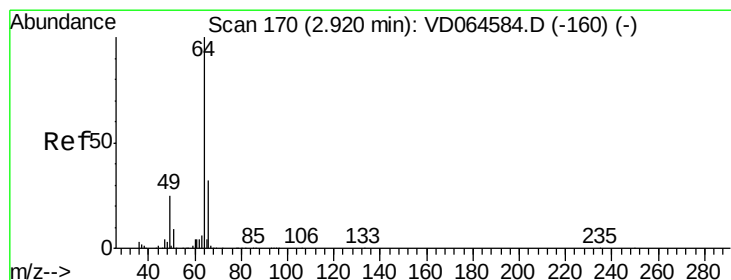
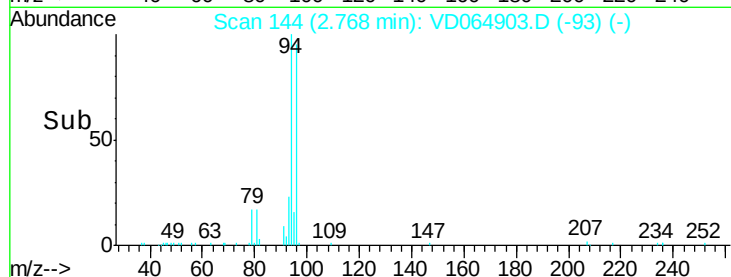


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->



#6

Chloroethane

Concen: 22.538 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064903.D

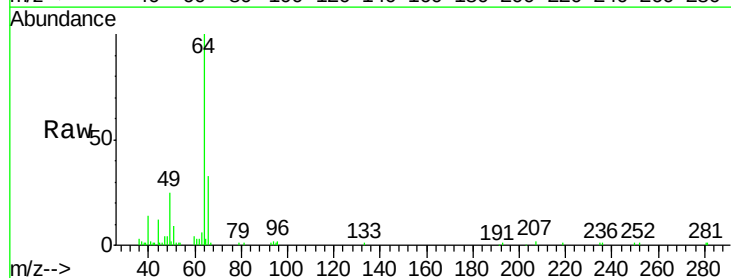
Acq: 21 Jan 2020 10:51

Tgt Ion: 64 Resp: 67637

Ion Ratio Lower Upper

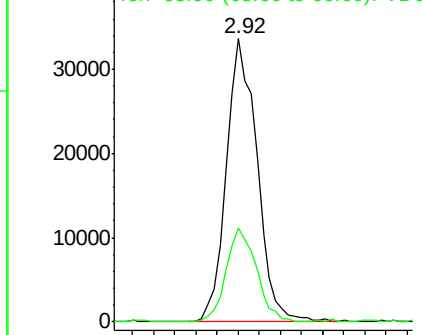
64 100

66 33.0 25.9 38.9

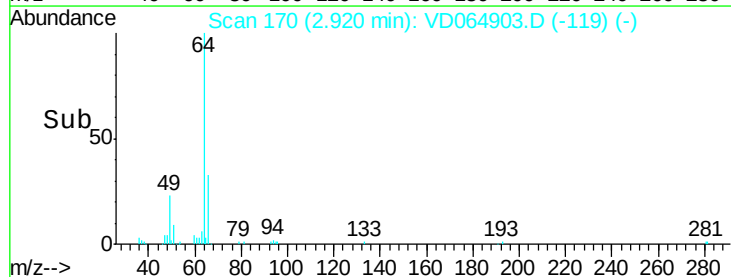


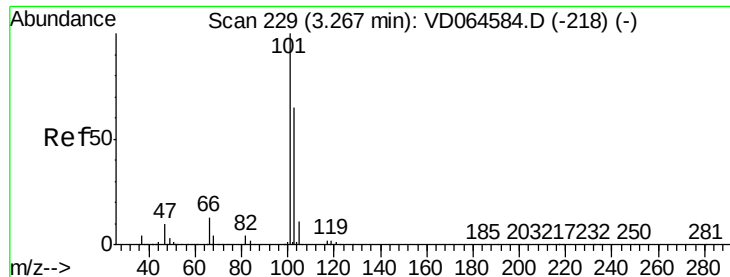
Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



Time-->





#7

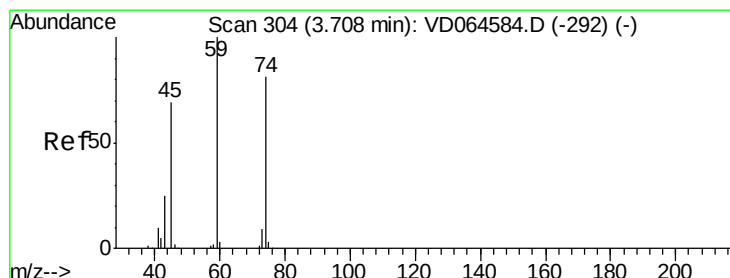
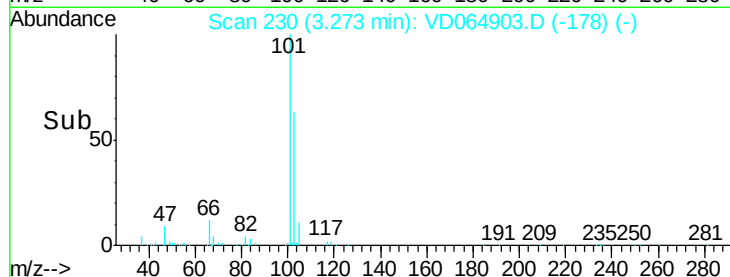
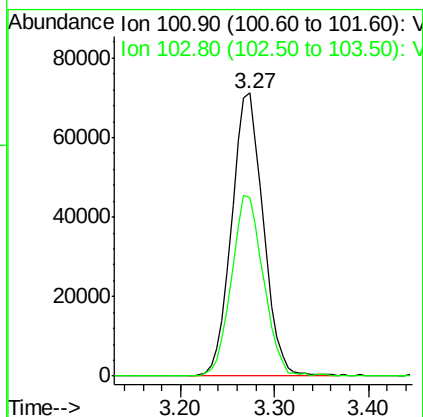
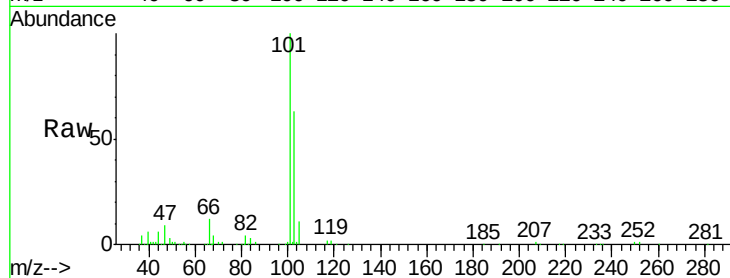
Trichlorofluoromethane
 Concen: 22.018 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.2	78.4

Manual Integrations
 APPROVED

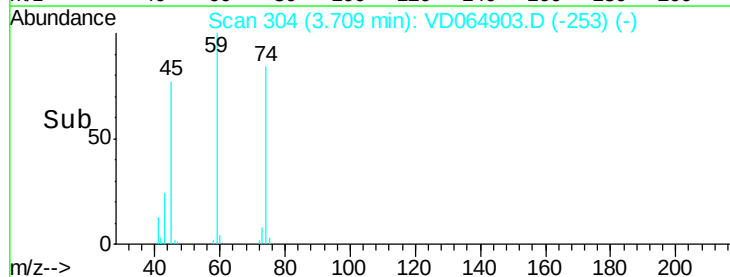
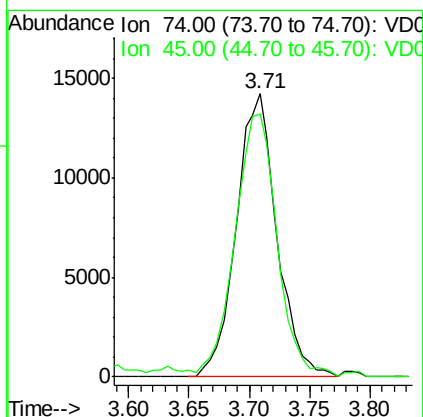
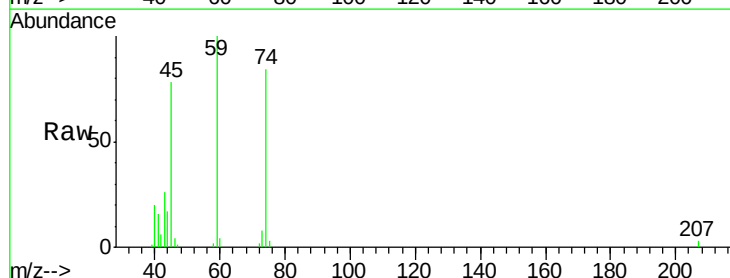
MMDadoda
 1/22/2020 10:49:24 AM

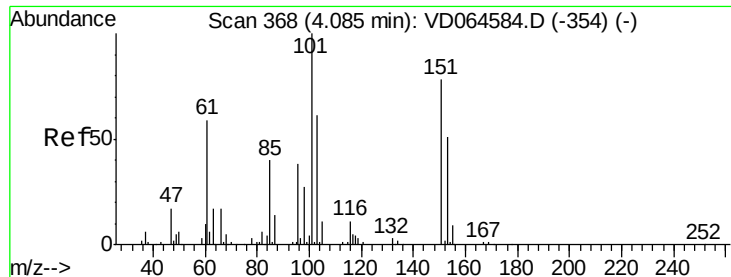


#8

Diethyl Ether
 Concen: 22.202 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.8	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.013 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

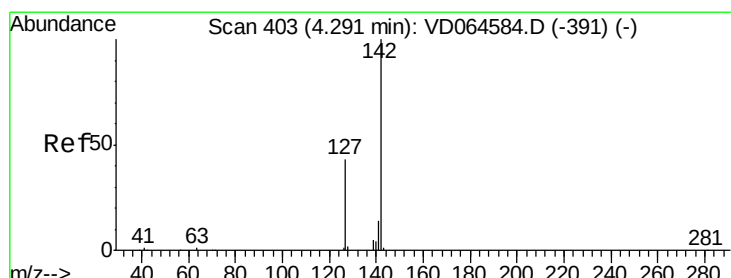
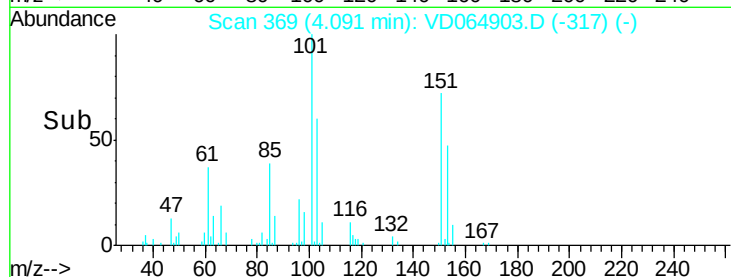
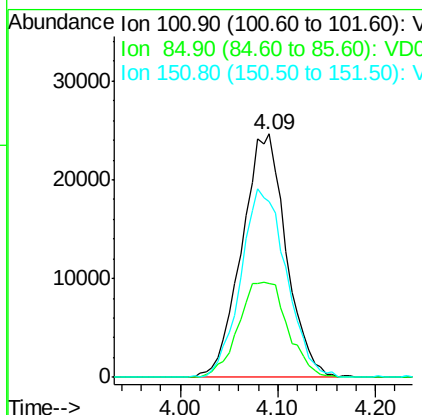
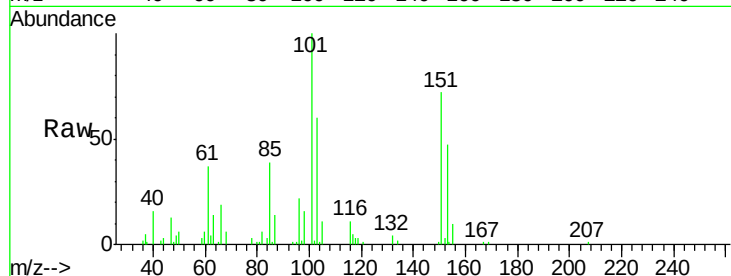
ClientSampleId :

VD0121SBS01

Tot Ion:	101	Resp:	78120
Ion Ratio	Lower	Upper	
101	100		
85	43.2	35.2	52.8
151	79.5	66.2	99.4

Manual Integrations
APPROVED

MMDadoda
1/22/2020 10:49:24 AM



#10

Methyl Iodide

Concen: 20.116 ug/l

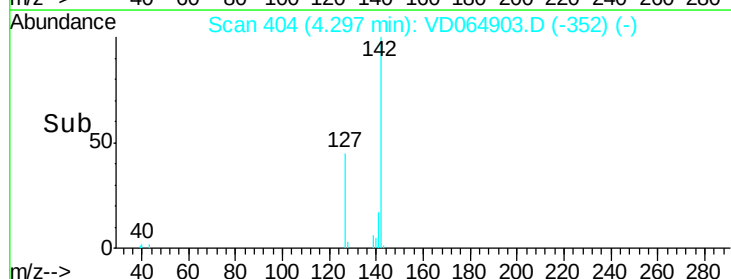
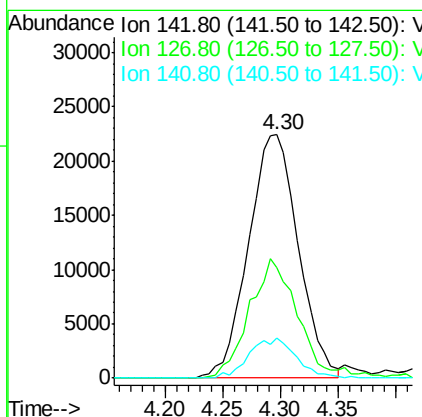
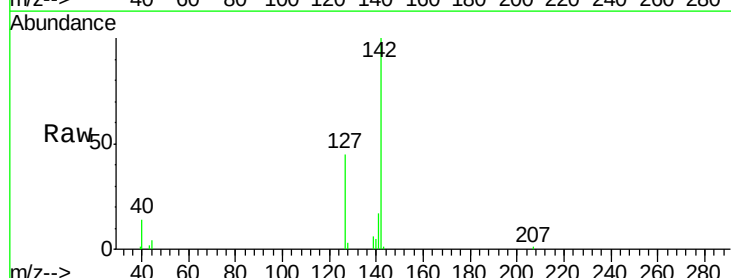
RT: 4.30 min Scan# 404

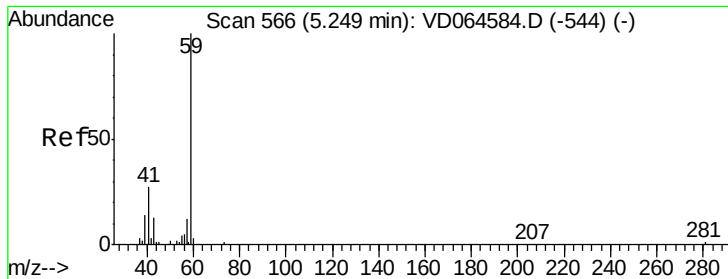
Delta R.T. 0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Tgt Ion:	142	Resp:	67485
Ion Ratio	Lower	Upper	
142	100		
127	48.1	36.2	54.4
141	15.5	11.8	17.8





#11

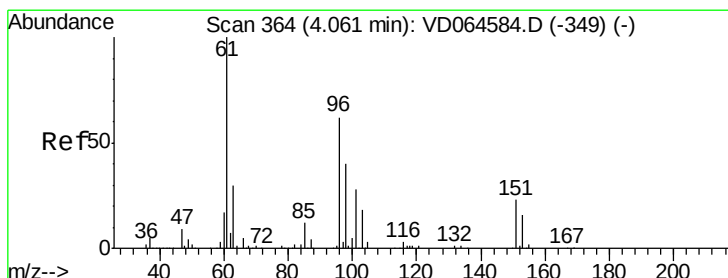
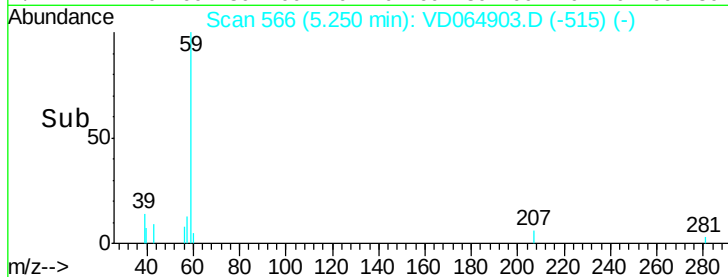
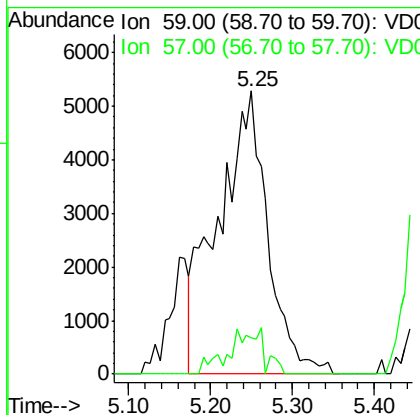
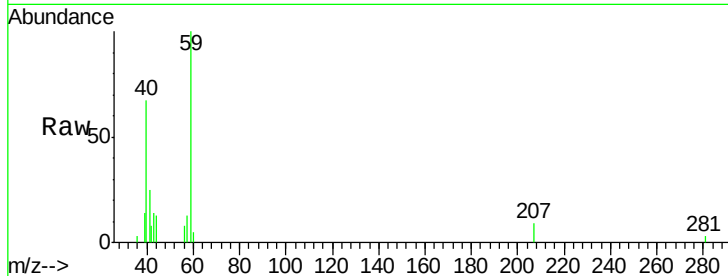
Tert butyl alcohol
 Concen: 130.883 ug/l
 RT: 5.25 min Scan# 566
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.3	13.9#

Manual Integrations
 APPROVED

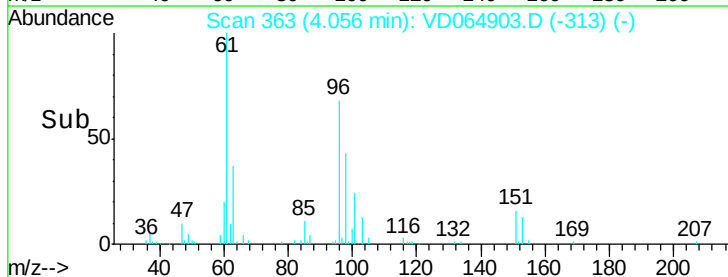
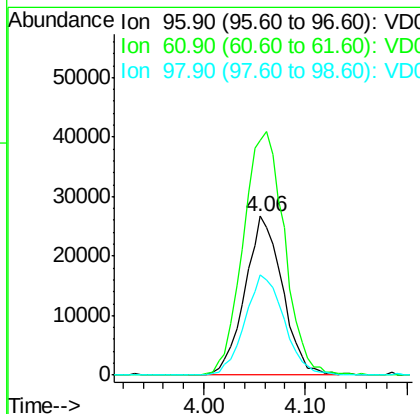
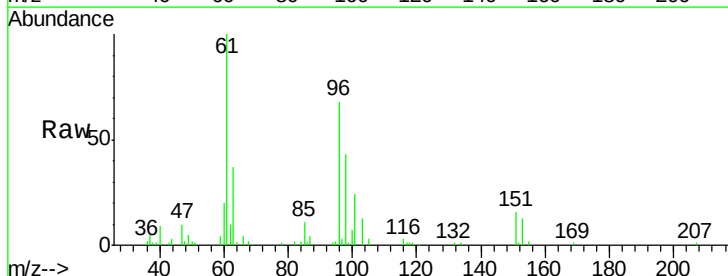
MMDadoda
 1/22/2020 10:49:24 AM

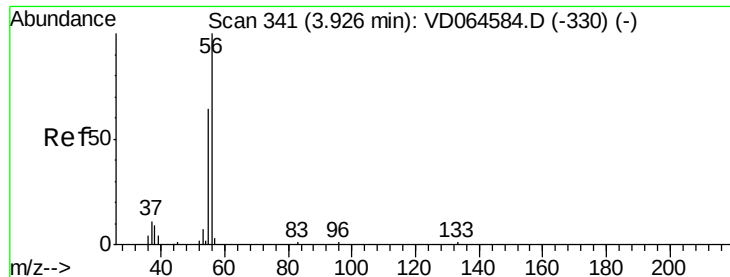


#12

1,1-Dichloroethene
 Concen: 23.056 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.9	129.4	194.0
98	63.2	51.4	77.0





#13

Acrolein

Concen: 67.219 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 56 Resp: 16000

Ion Ratio Lower Upper

56 100

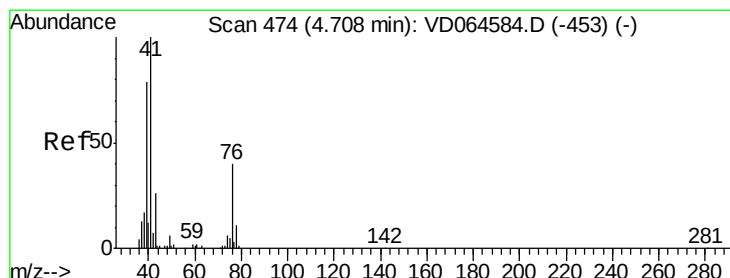
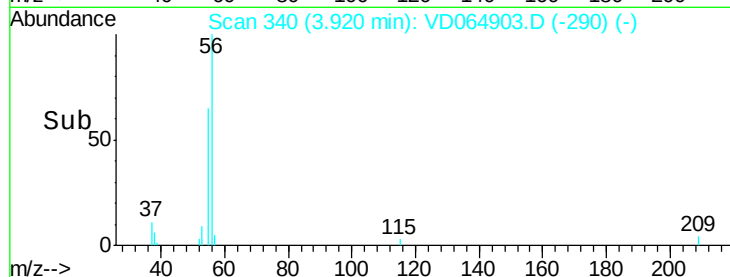
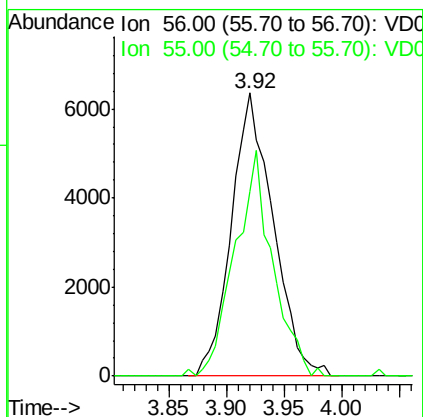
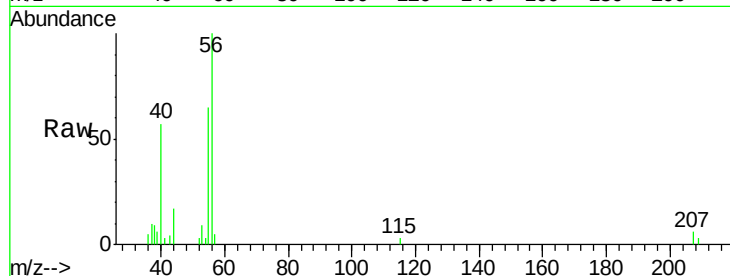
55 71.9 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

1/22/2020 10:49:24 AM



#14

Allyl chloride

Concen: 24.268 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

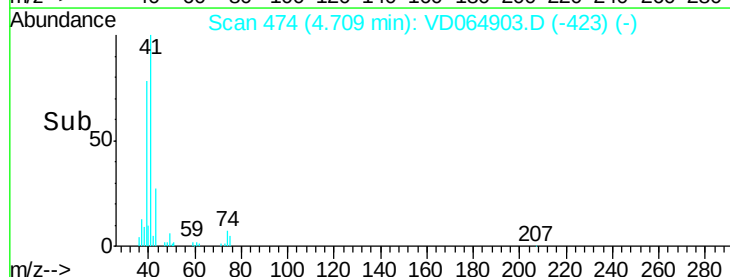
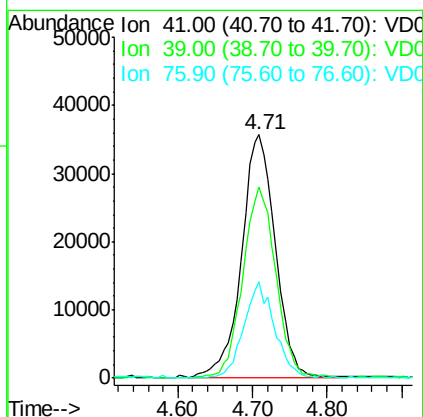
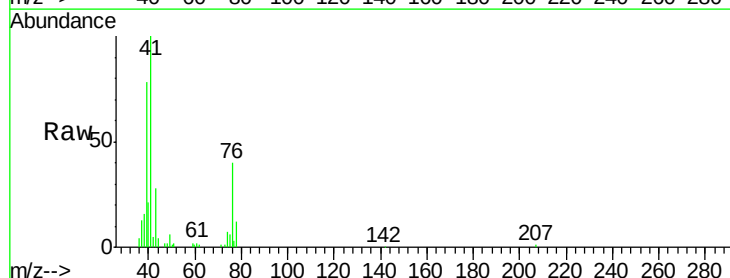
Tgt Ion: 41 Resp: 112502

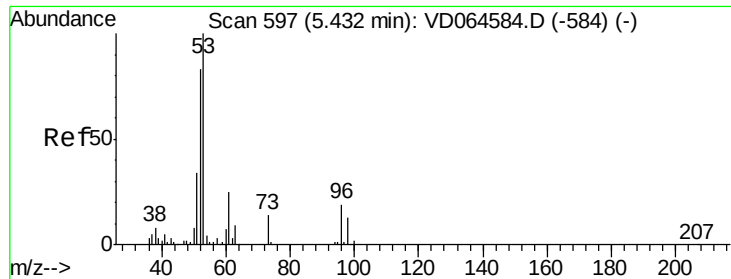
Ion Ratio Lower Upper

41 100

39 77.1 62.3 93.5

76 35.7 29.7 44.5





#15

Acrylonitrile

Concen: 109.675 ug/l

RT: 5.42 min Scan# 595

Delta R.T. -0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

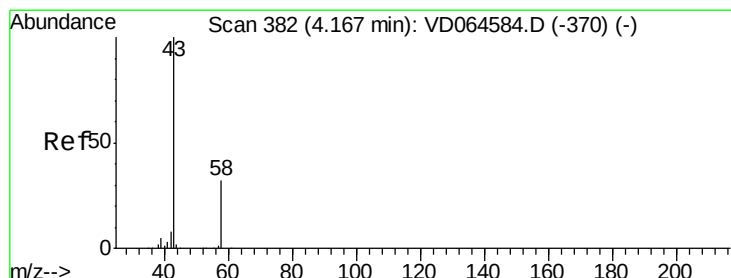
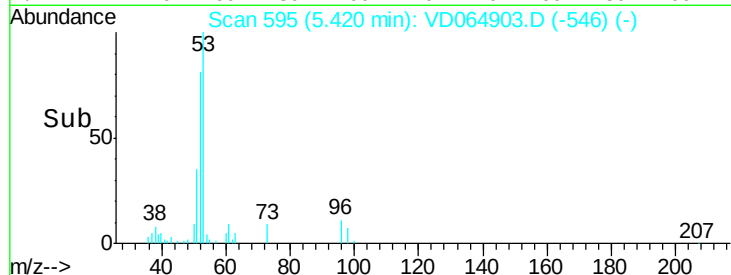
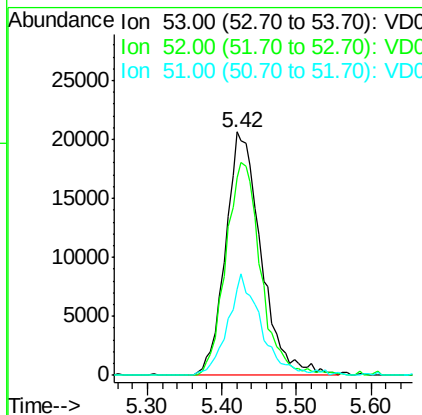
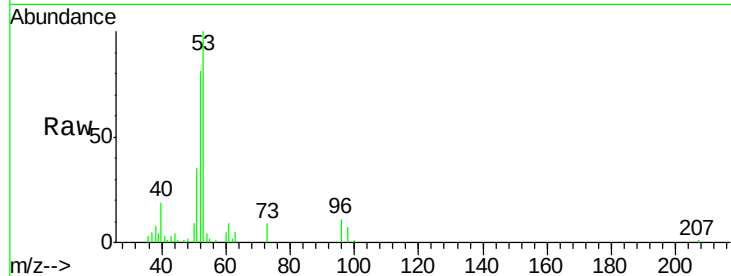
ClientSampleId :

VD0121SBS01

Tot Ion:	53	Resp:	68412
Ion Ratio		Lower	Upper
53	100		
52	84.8	66.2	99.2
51	38.3	30.1	45.1

Manual Integrations
APPROVED

MMDadoda
1/22/2020 10:49:24 AM



#16

Acetone

Concen: 119.059 ug/l

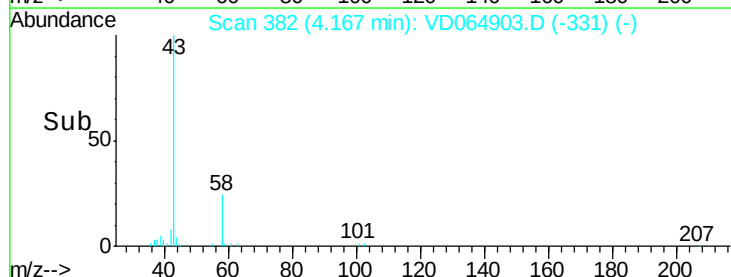
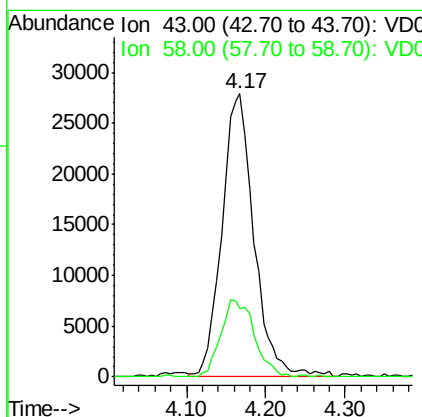
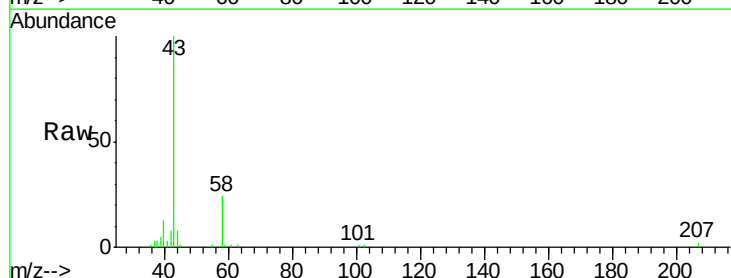
RT: 4.17 min Scan# 382

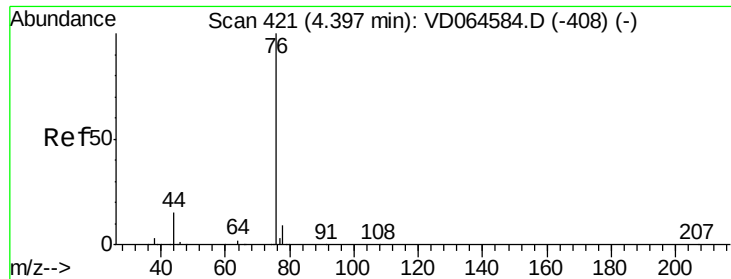
Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Tgt Ion:	43	Resp:	78021
Ion Ratio		Lower	Upper
43	100		
58	24.3	25.8	38.6#





#17

Carbon Disulfide

Concen: 21.828 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 76 Resp: 209864

Ion Ratio Lower Upper

76 100

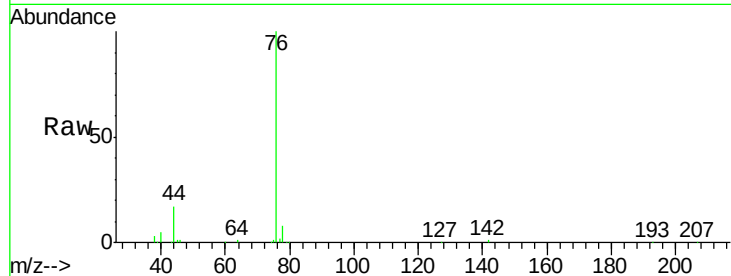
78 7.9 7.3 10.9

Manual Integrations

APPROVED

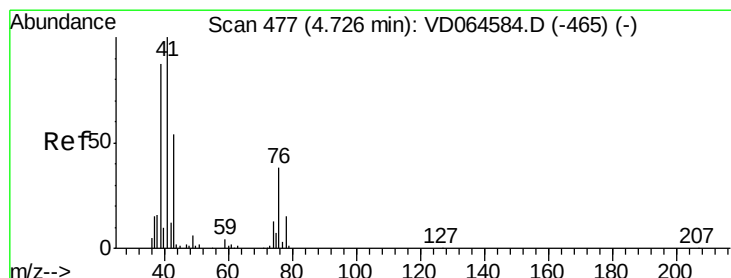
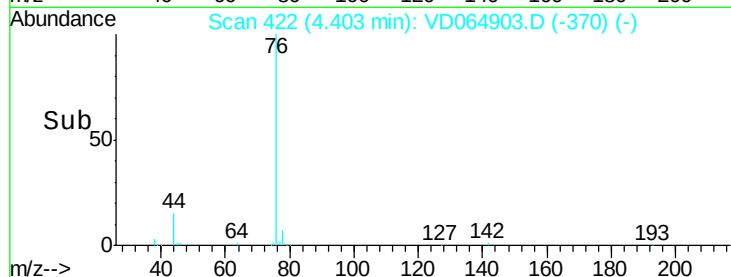
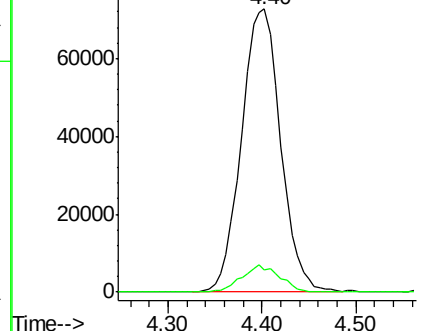
MMDadoda

1/22/2020 10:49:24 AM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 22.111 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD064903.D

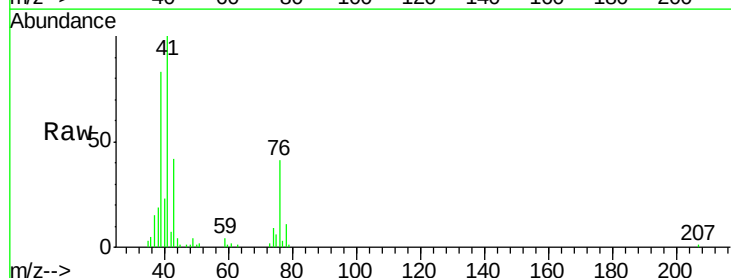
Acq: 21 Jan 2020 10:51

Tgt Ion: 43 Resp: 37097

Ion Ratio Lower Upper

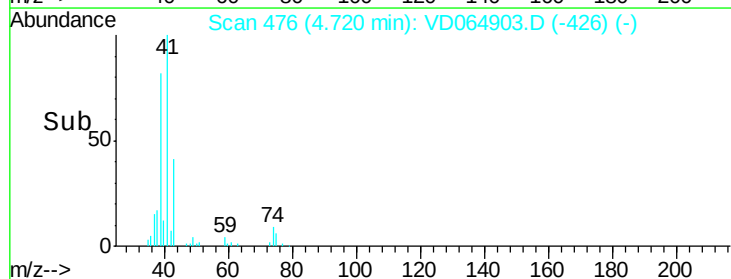
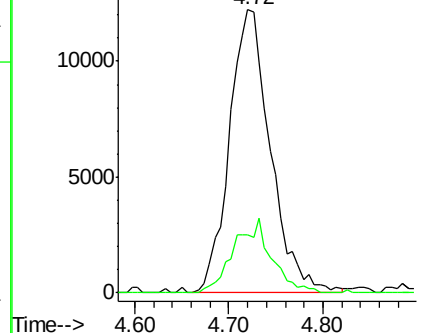
43 100

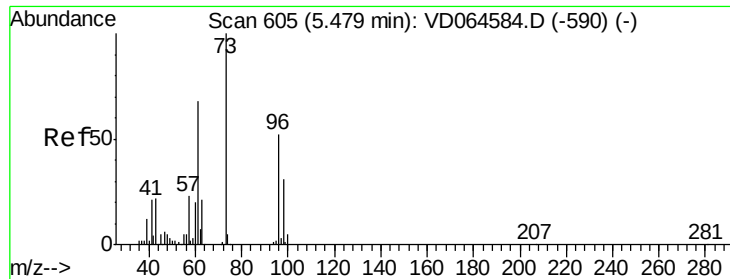
74 24.1 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





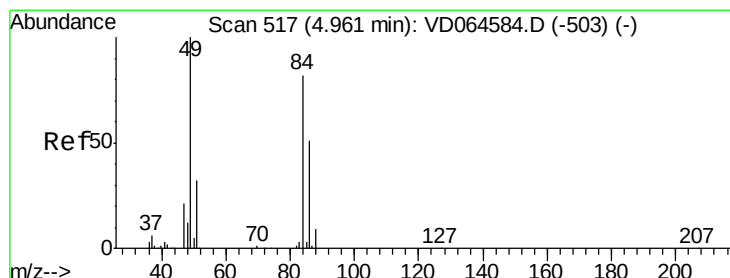
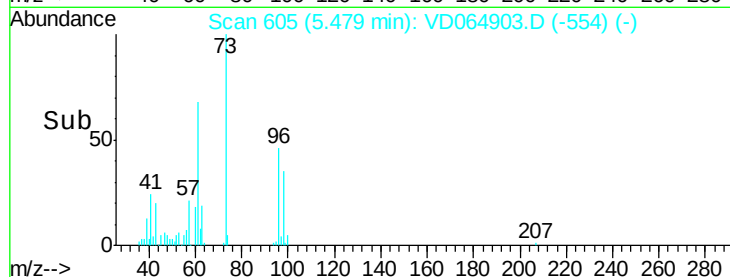
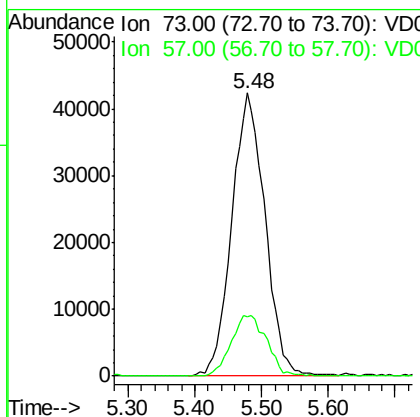
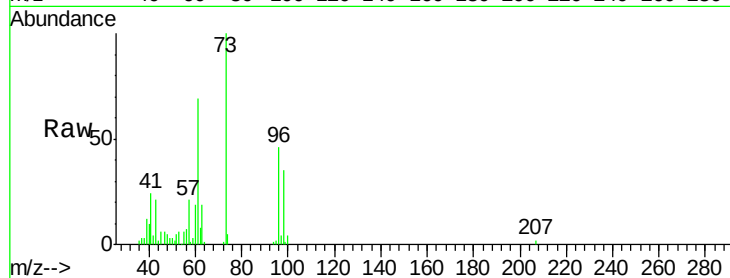
#19
Methyl tert-butyl Ether
Concen: 22.127 ug/l
RT: 5.48 min Scan# 605
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion: 73 Resp: 146133
Ion Ratio Lower Upper
73 100
57 20.9 18.6 27.8

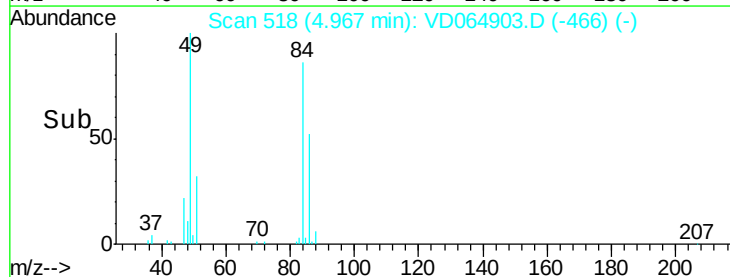
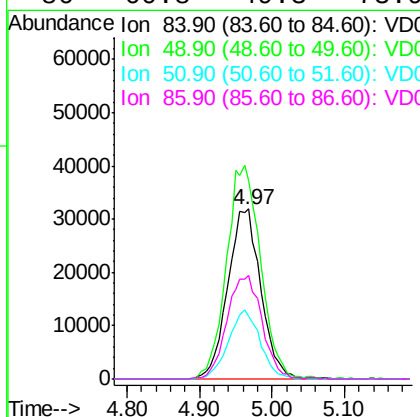
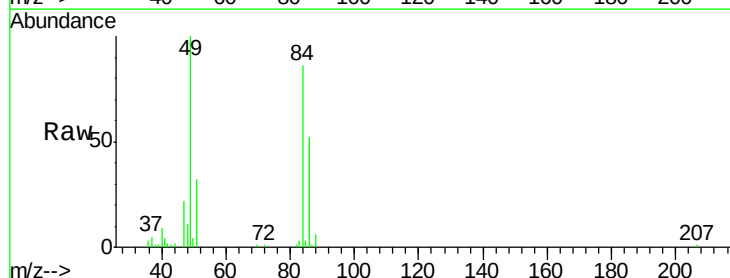
Manual Integrations
APPROVED

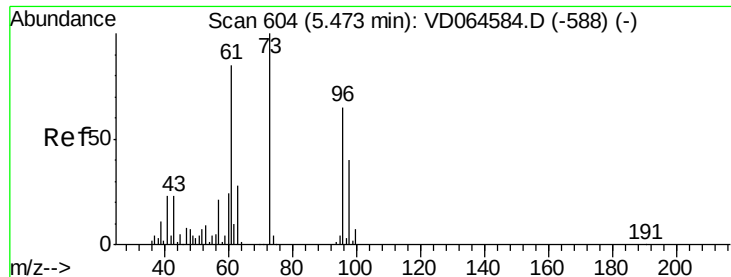
MMDadoda
1/22/2020 10:49:24 AM



#20
Methylene Chloride
Concen: 31.361 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion: 84 Resp: 101136
Ion Ratio Lower Upper
84 100
49 116.7 97.2 145.8
51 37.0 31.4 47.0
86 60.8 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 23.405 ug/l

RT: 5.46 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 96 Resp: 79255

Ion Ratio Lower Upper

96 100

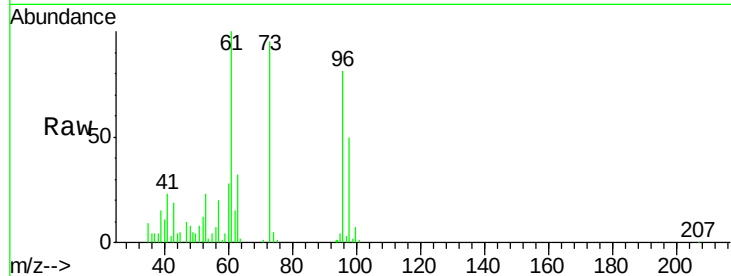
61 123.2 104.7 157.1

98 61.8 49.4 74.2

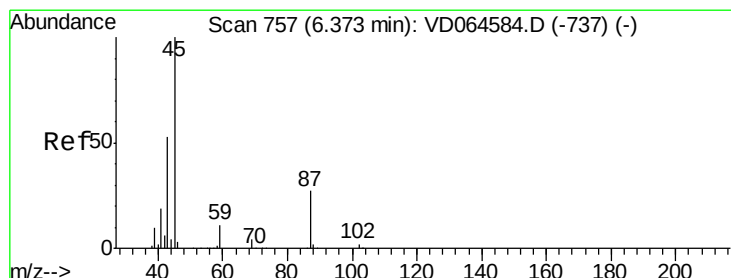
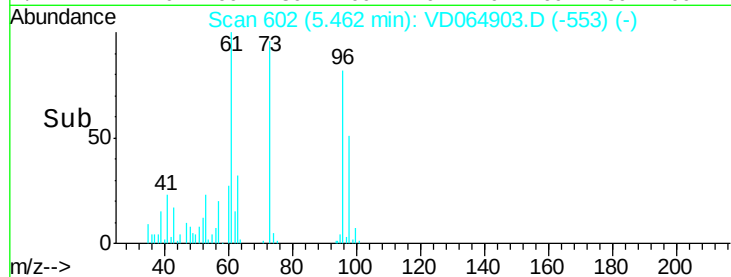
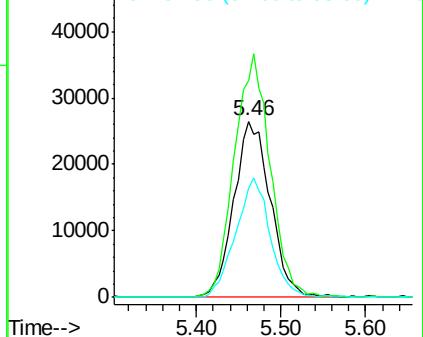
Manual Integrations
APPROVED

MMDadoda

1/22/2020 10:49:24 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 24.015 ug/l

RT: 6.37 min Scan# 757

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Tgt Ion: 45 Resp: 222060

Ion Ratio Lower Upper

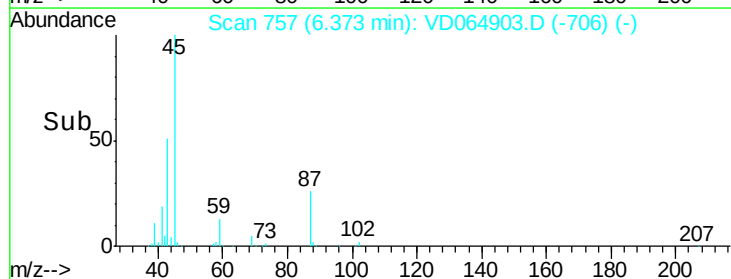
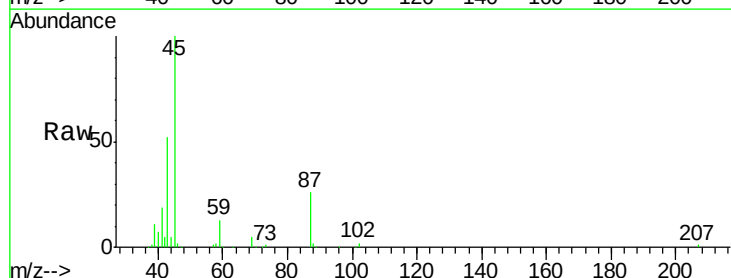
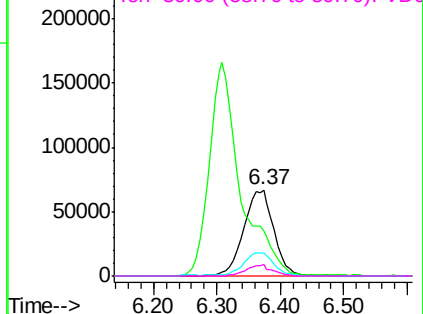
45 100

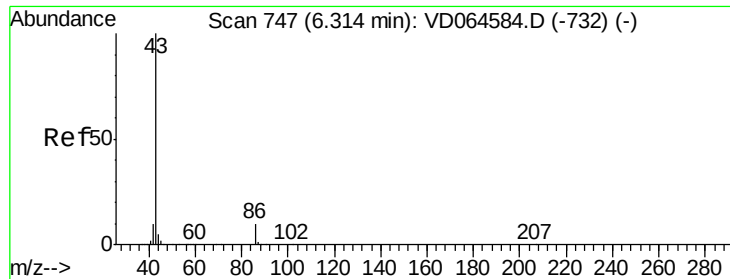
43 50.5 43.2 64.8

87 26.3 21.9 32.9

59 12.9 9.0 13.4

Abundance Ion 45.00 (44.70 to 45.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 109.220 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 43 Resp: 572886

Ion Ratio Lower Upper

43 100

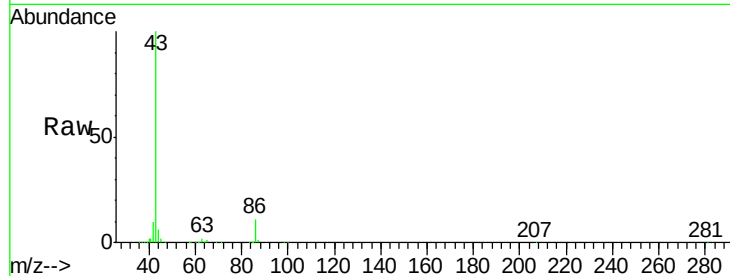
86 10.6 8.3 12.5

Manual Integrations

APPROVED

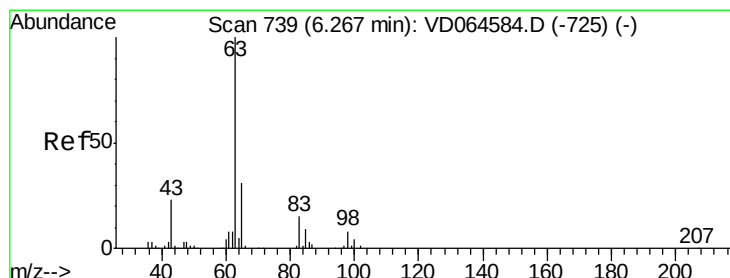
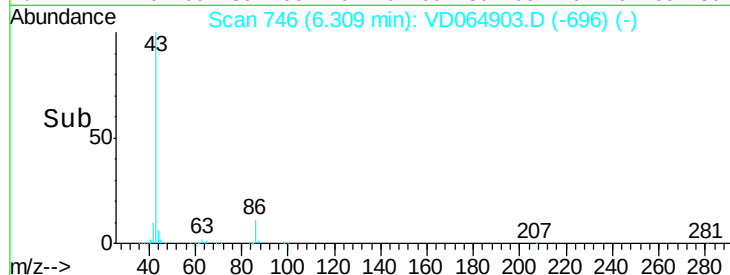
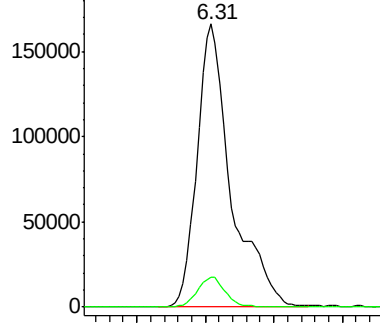
MMDadoda

1/22/2020 10:49:24 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 24.962 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

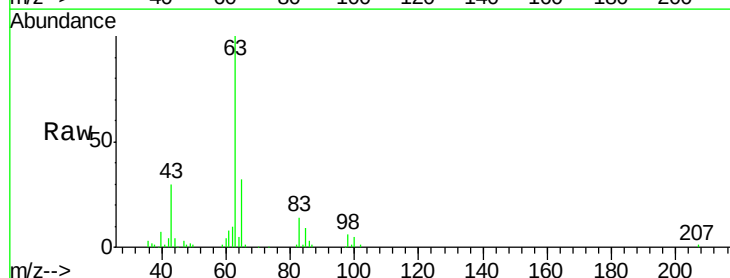
Tgt Ion: 63 Resp: 138566

Ion Ratio Lower Upper

63 100

98 6.5 4.1 12.3

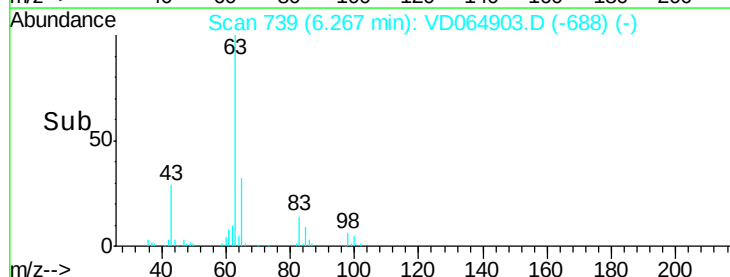
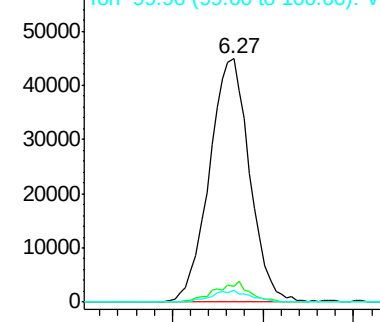
100 4.7 2.2 6.6

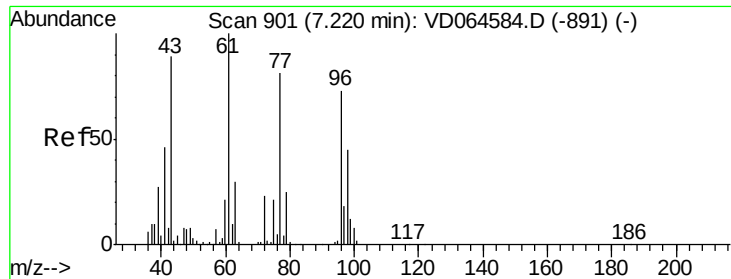


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 111.337 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 43 Resp: 91204

Ion Ratio Lower Upper

43 100

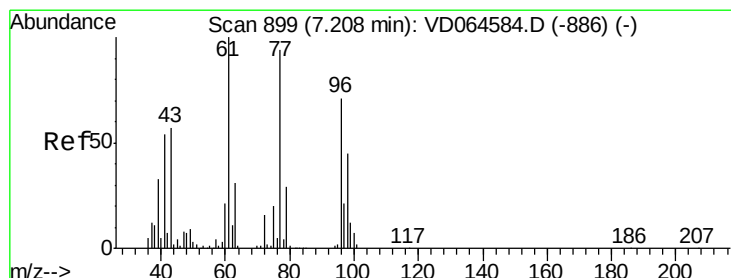
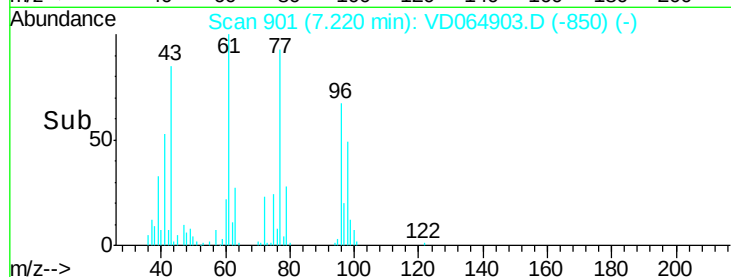
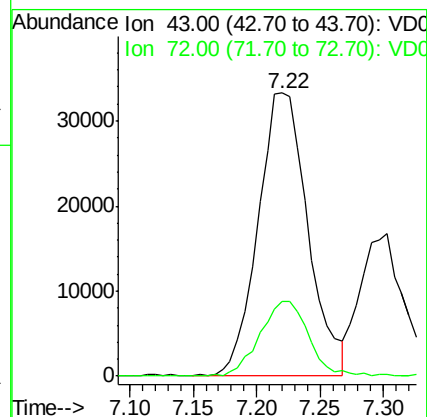
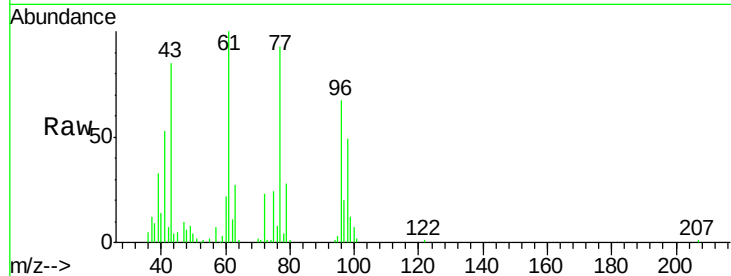
72 26.4 20.7 31.1

Manual Integrations

APPROVED

MMDadoda

1/22/2020 10:49:24 AM



#26

2,2-Dichloropropane

Concen: 25.155 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD064903.D

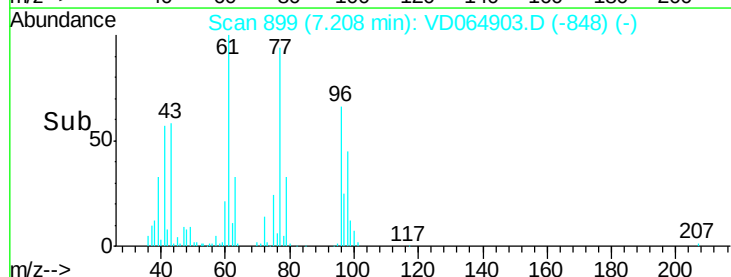
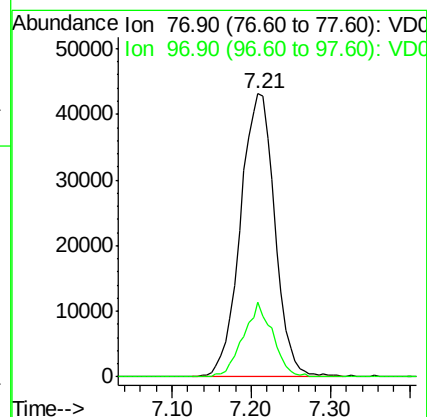
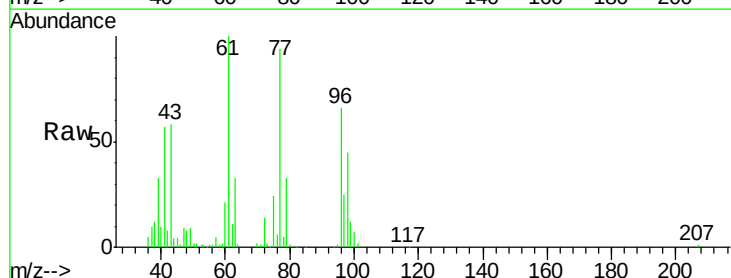
Acq: 21 Jan 2020 10:51

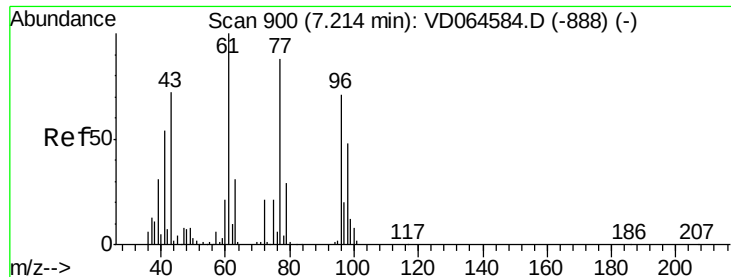
Tgt Ion: 77 Resp: 129828

Ion Ratio Lower Upper

77 100

97 22.6 11.2 33.6





#27

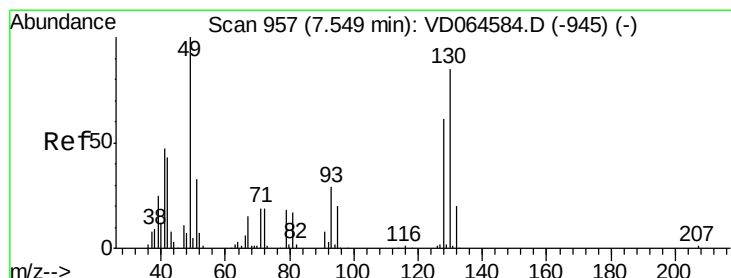
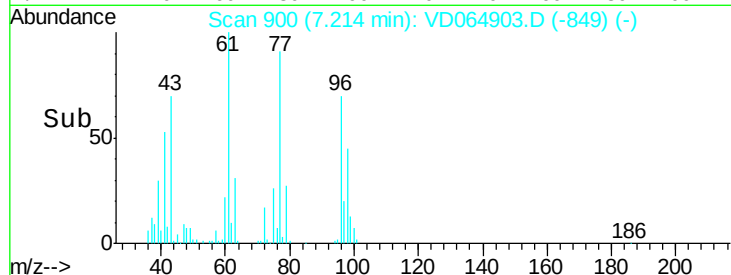
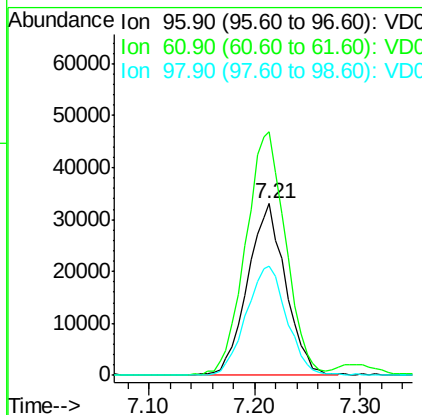
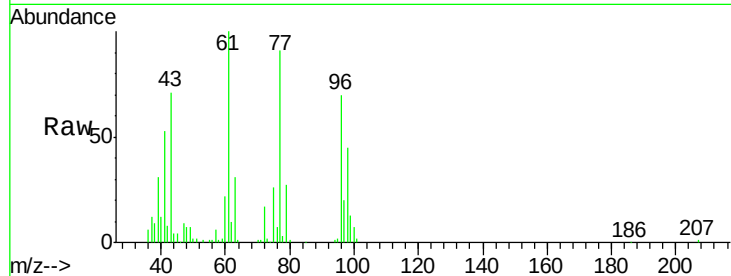
cis-1,2-Dichloroethene
Concen: 22.648 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	149.1	0.0	282.6
98	67.6	0.0	130.8

Manual Integrations
APPROVED

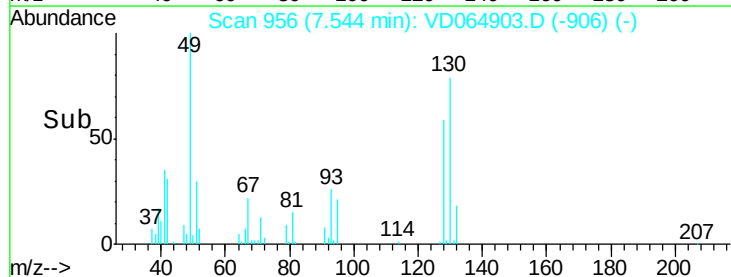
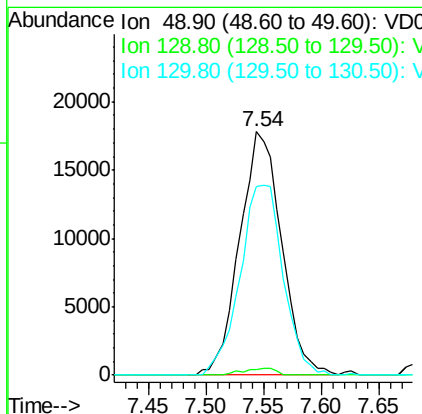
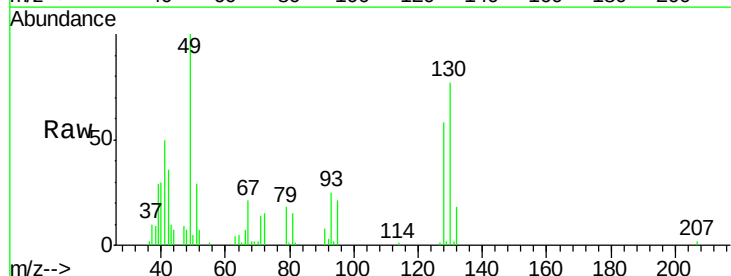
MMDadoda
1/22/2020 10:49:24 AM

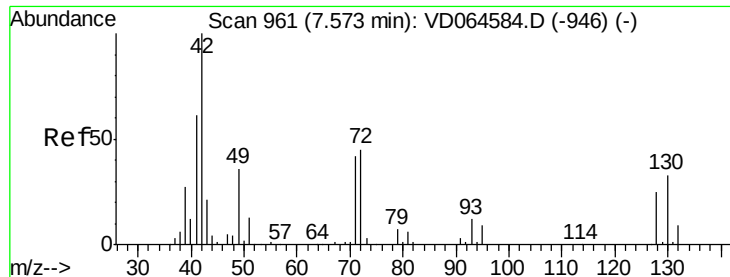


#28

Bromochloromethane
Concen: 20.867 ug/l
RT: 7.54 min Scan# 956
Delta R.T. -0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.8
130	80.3	65.0	97.6





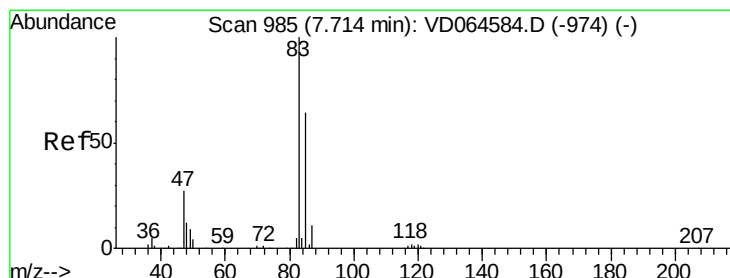
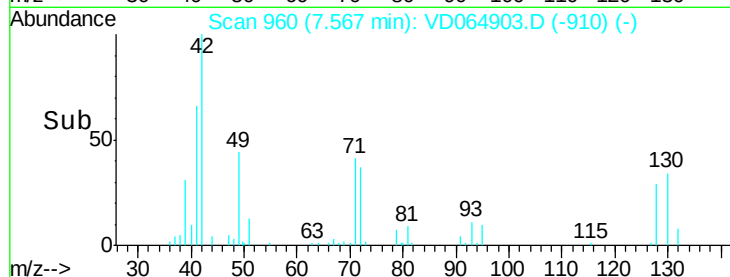
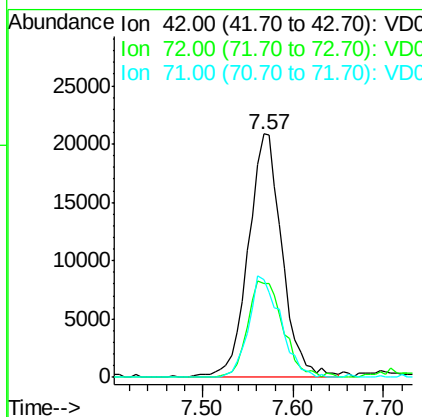
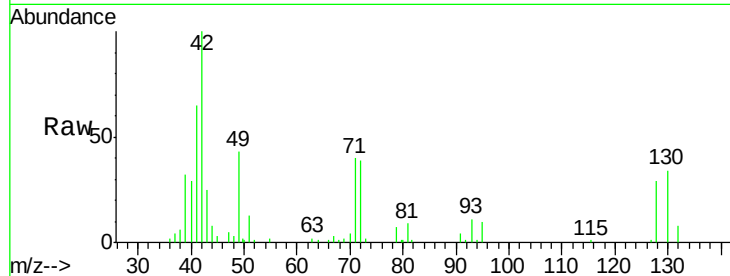
#29
Tetrahydrofuran
Concen: 106.246 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	35.0	52.4
71	39.2	32.9	49.3

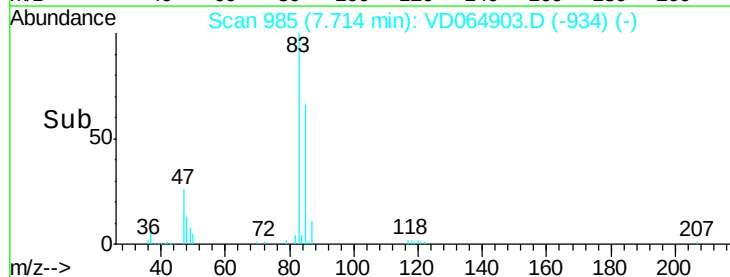
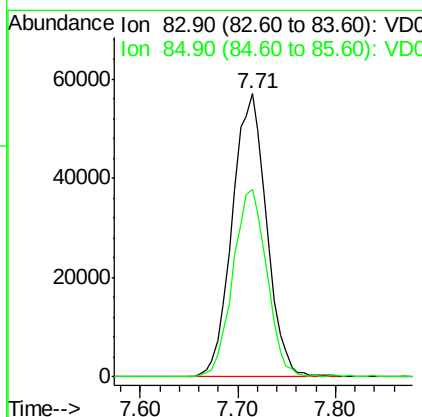
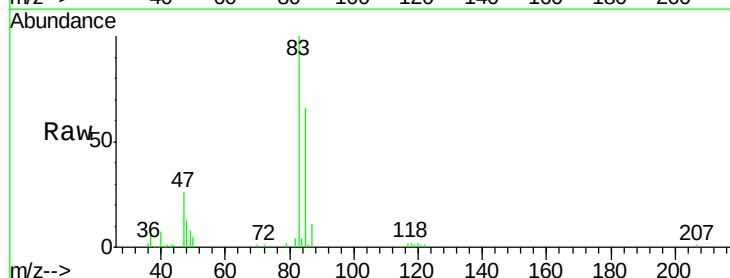
Manual Integrations
APPROVED

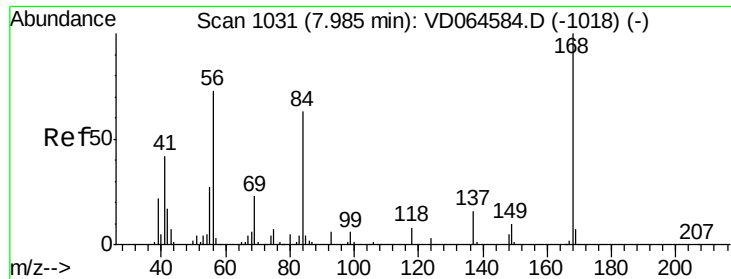
MMDadoda
1/22/2020 10:49:24 AM



#30
Chloroform
Concen: 24.031 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.1	76.7





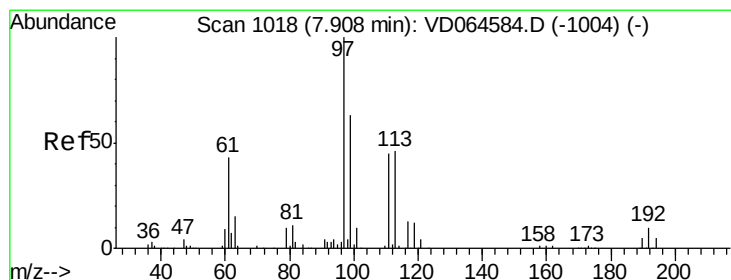
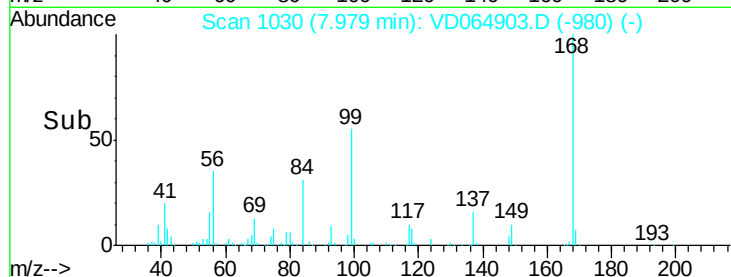
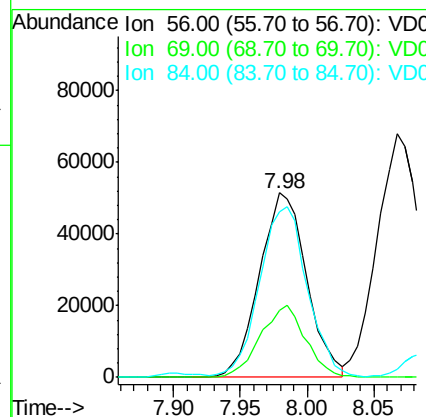
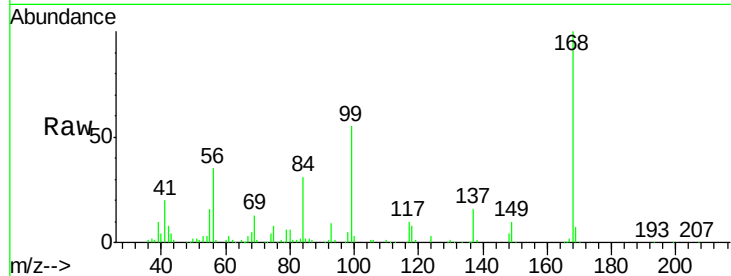
#31
Cyclohexane
Concen: 22.810 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.1	24.7	37.1
84	88.3	69.4	104.2

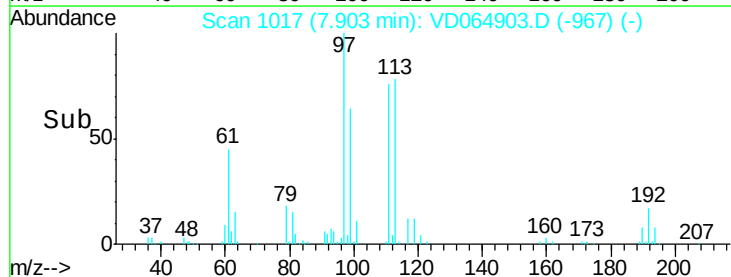
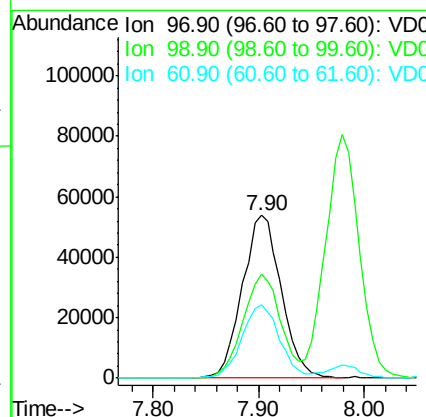
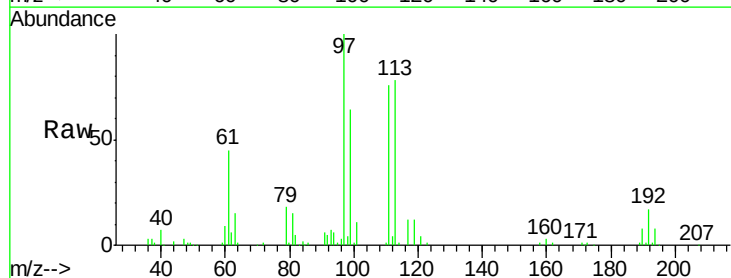
Manual Integrations
APPROVED

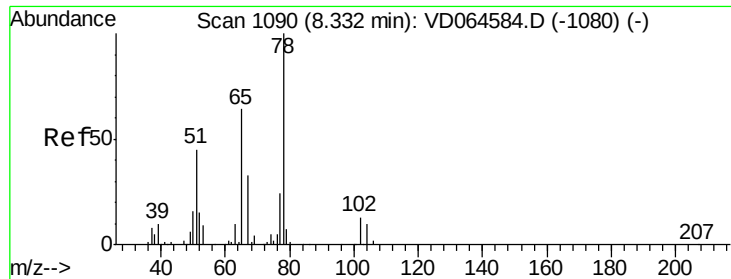
MMDadoda
1/22/2020 10:49:24 AM



#32
1,1,1-Trichloroethane
Concen: 25.086 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.7	51.0	76.6
61	43.9	35.4	53.0





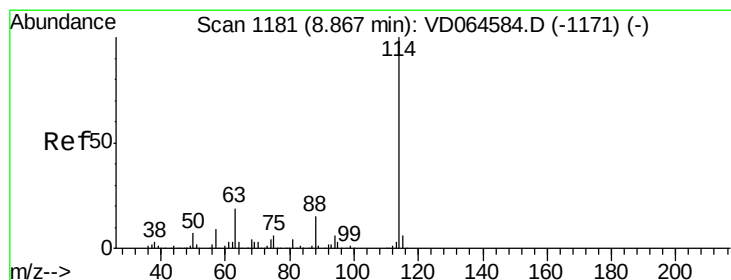
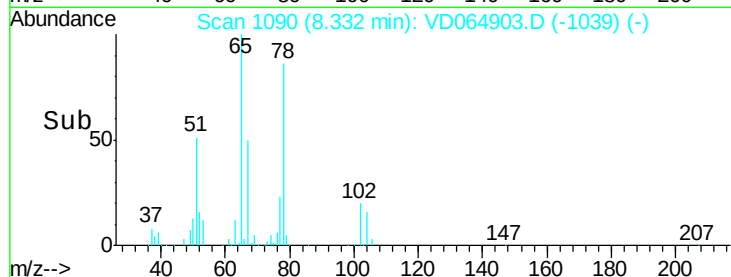
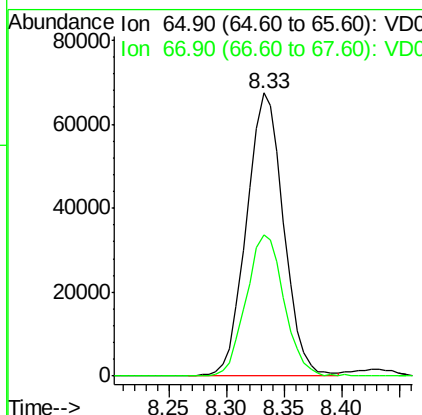
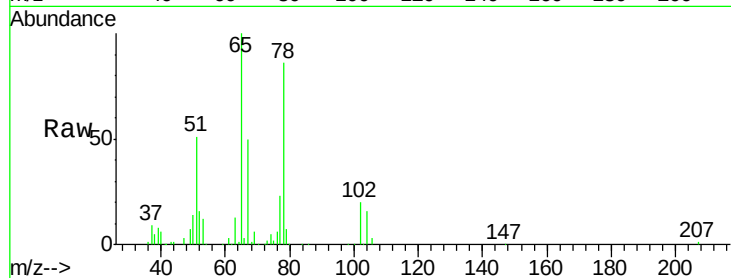
#33
 1,2-Dichloroethane-d4
 Concen: 50.718 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	151148		
67	50.8	0.0	106.2	

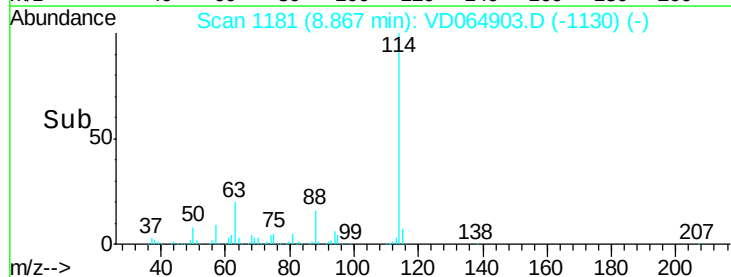
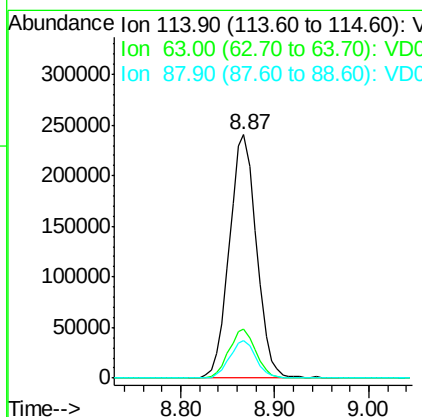
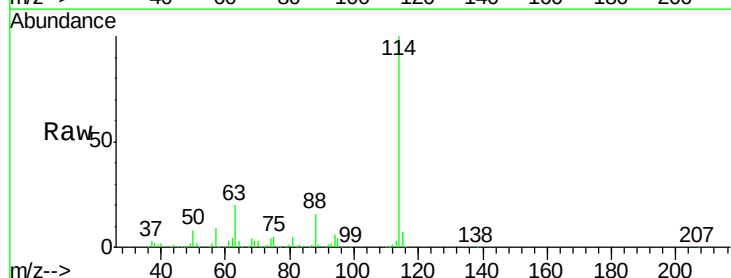
Manual Integrations
 APPROVED

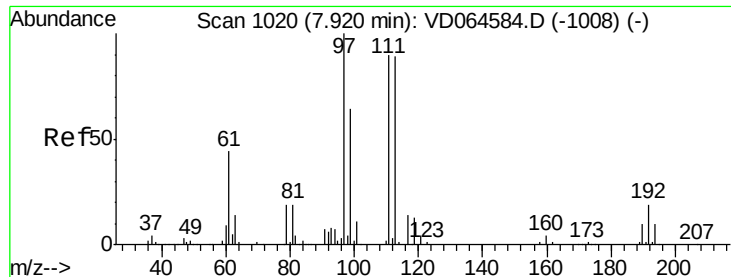
MMDadoda
 1/22/2020 10:49:24 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	483156		
63	20.1	0.0	38.0	
88	15.6	0.0	29.2	





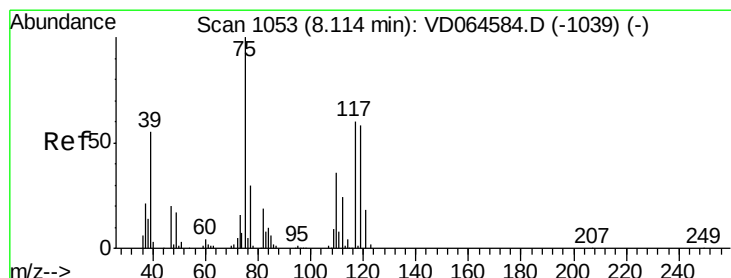
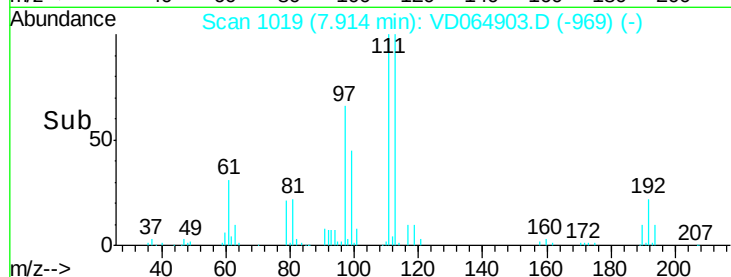
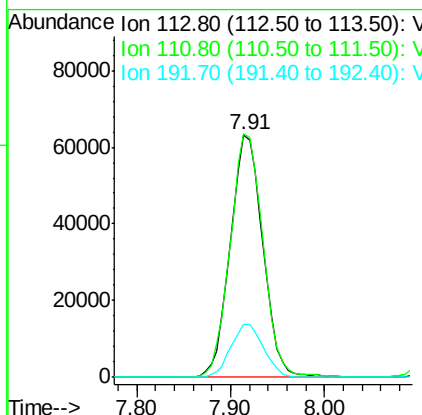
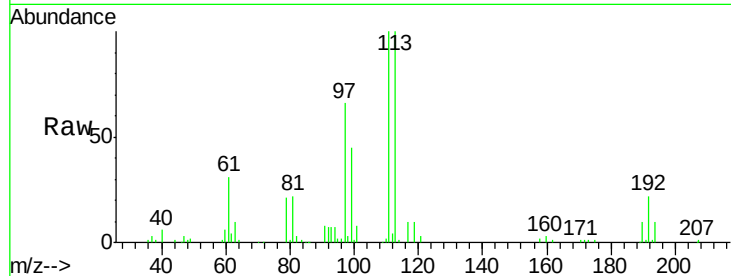
#35
 Dibromofluoromethane
 Concen: 51.332 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	152161		
111	101.4	80.6	121.0	
192	21.9	17.9	26.9	

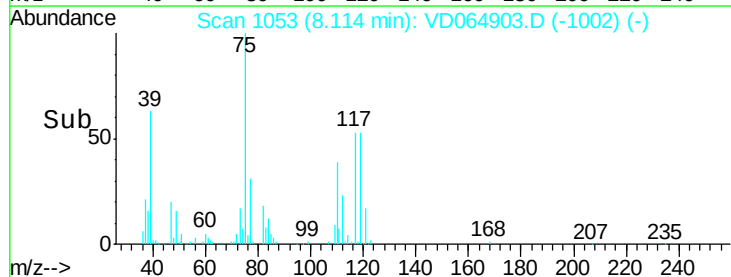
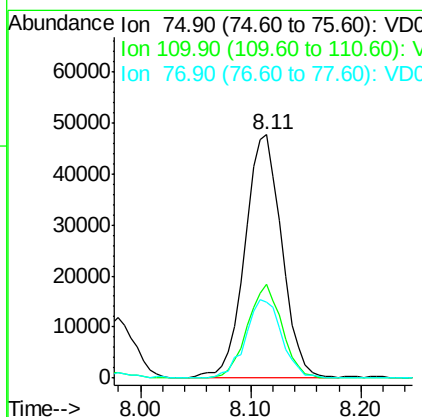
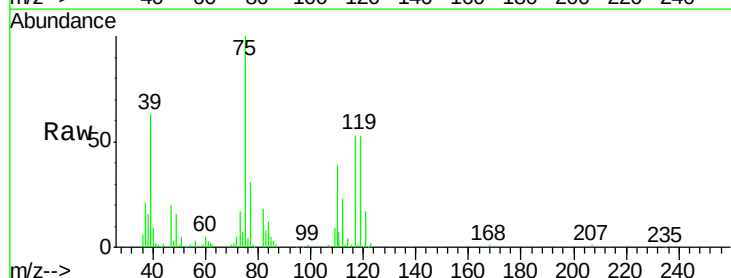
Manual Integrations
 APPROVED

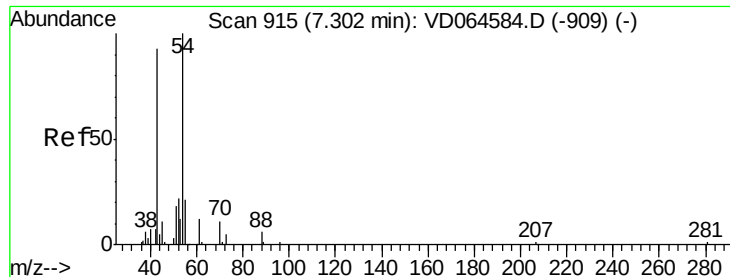
MMDadoda
 1/22/2020 10:49:24 AM



#36
 1,1-Dichloropropene
 Concen: 24.042 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	111803		
110	36.0	18.1	54.1	
77	31.9	24.2	36.4	





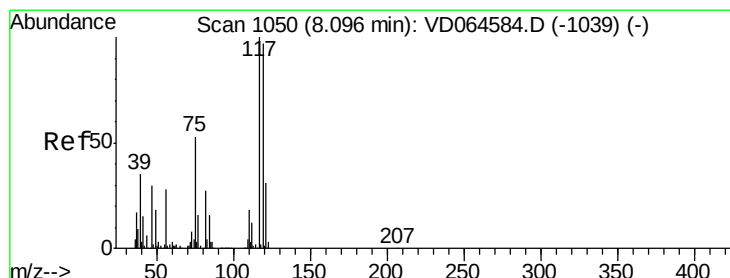
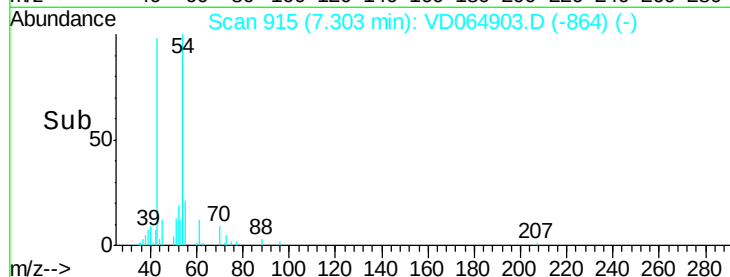
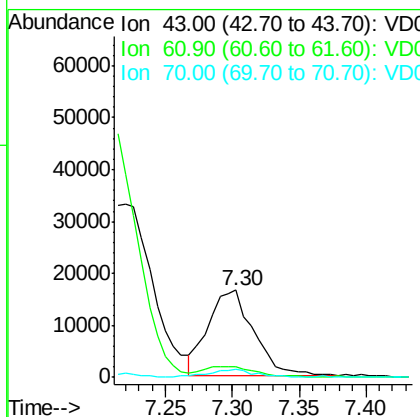
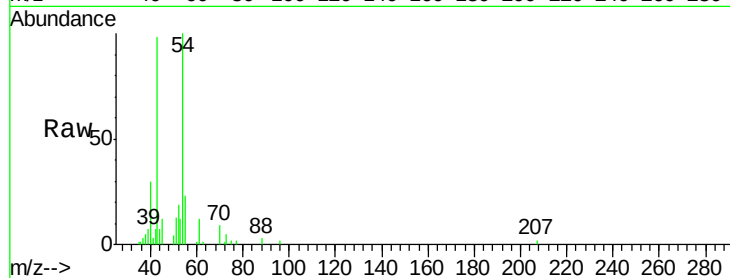
#37
Ethyl Acetate
Concen: 21.368 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	10.3	15.5
70	9.4	7.6	11.4

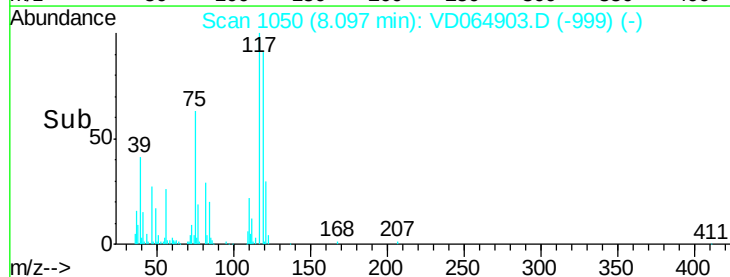
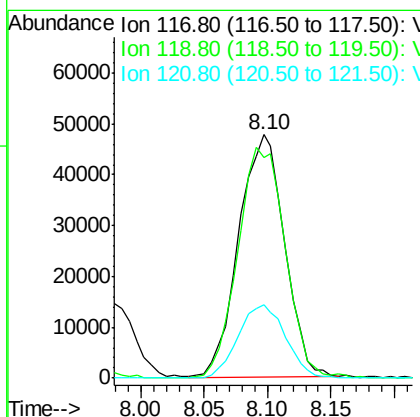
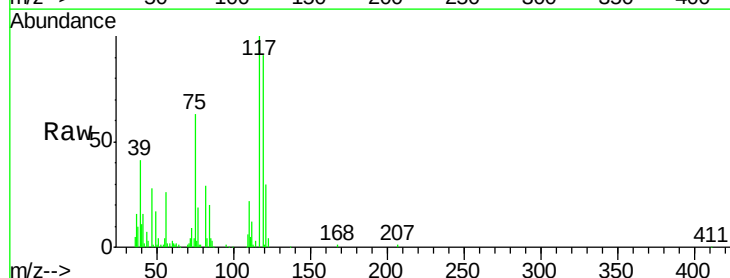
Manual Integrations
APPROVED

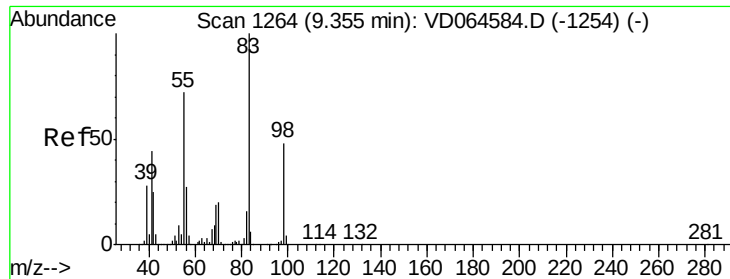
MMDadoda
1/22/2020 10:49:24 AM



#38
Carbon Tetrachloride
Concen: 24.131 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.2	77.3	115.9
121	30.2	25.0	37.6





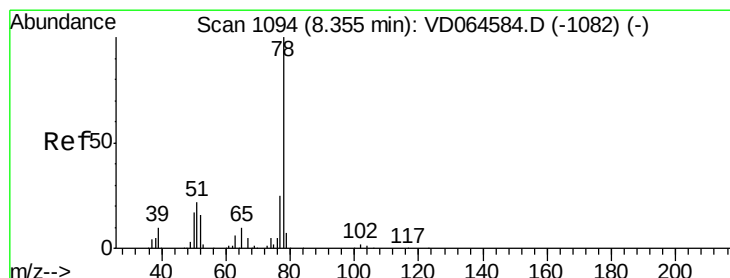
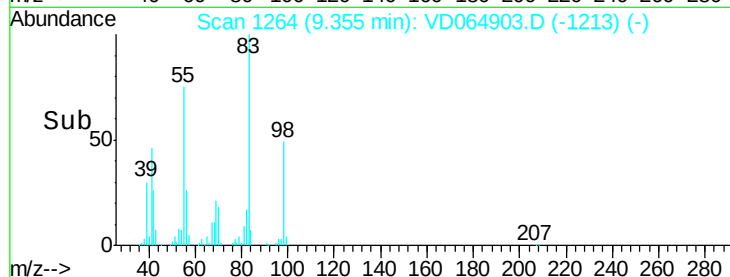
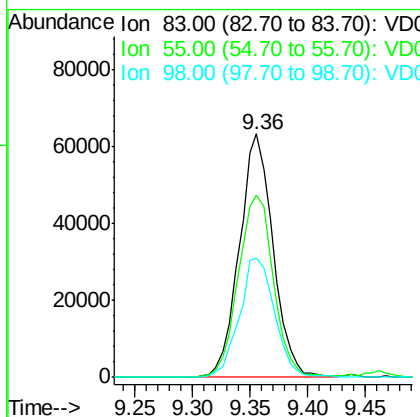
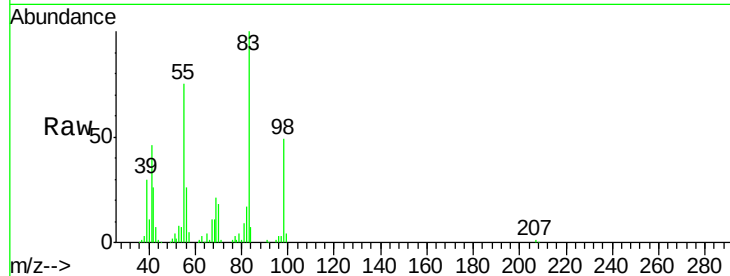
#39
Methylvlcyclohexane
Concen: 22.751 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.9	57.8	86.6
98	49.2	38.7	58.1

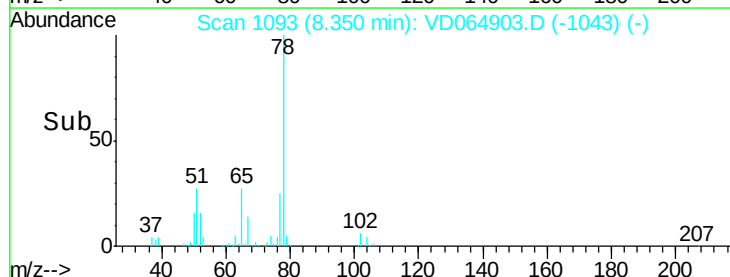
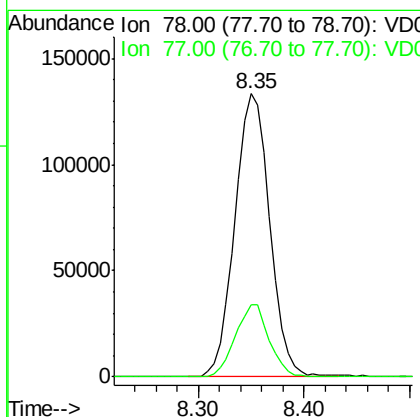
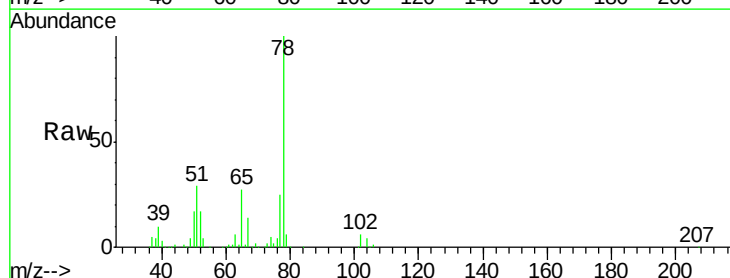
Manual Integrations
APPROVED

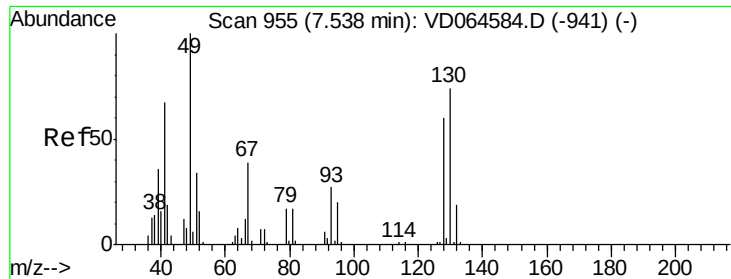
MMDadoda
1/22/2020 10:49:24 AM



#40
Benzene
Concen: 24.111 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.5	19.9	29.9





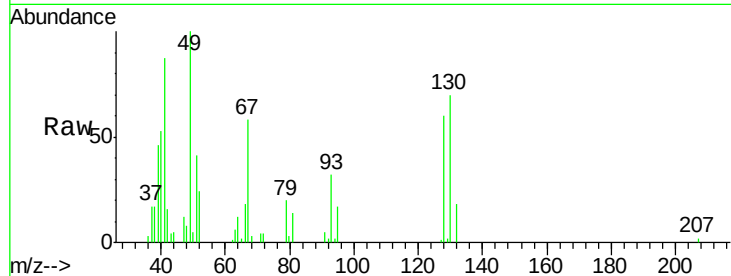
#41
Methacrylonitrile
Concen: 22.376 ug/l
RT: 7.53 min Scan# 954
Delta R.T. -0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

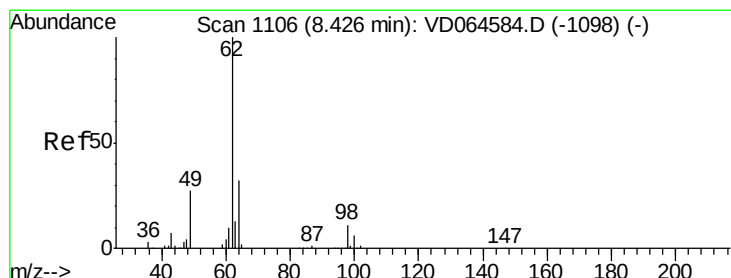
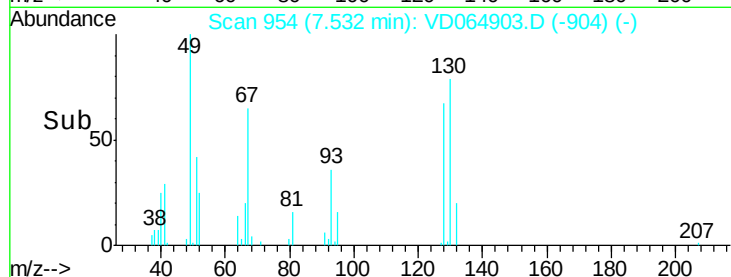
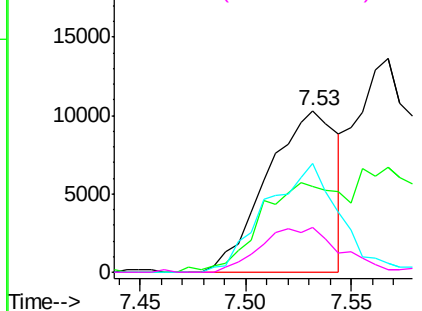
Tot Ion	41	Resp	23718
Ion	Ratio	Lower	Upper
41	100		
39	66.7	46.7	70.1
67	71.0	52.5	78.7
52	31.6	24.1	36.1

Manual Integrations
APPROVED

MMDadoda
1/22/2020 10:49:24 AM

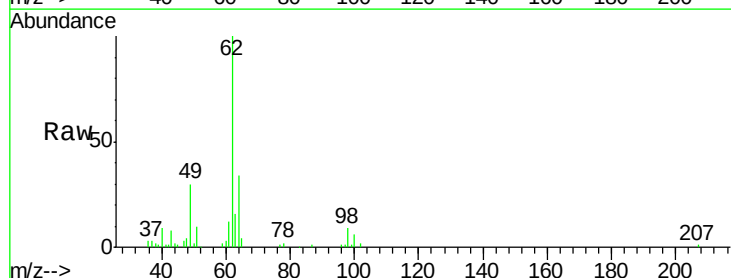


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

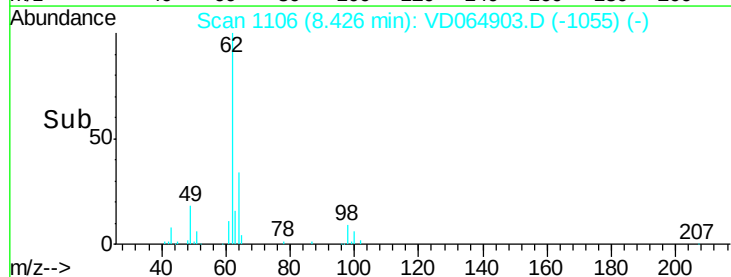
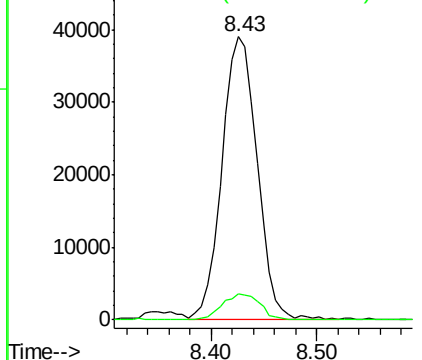


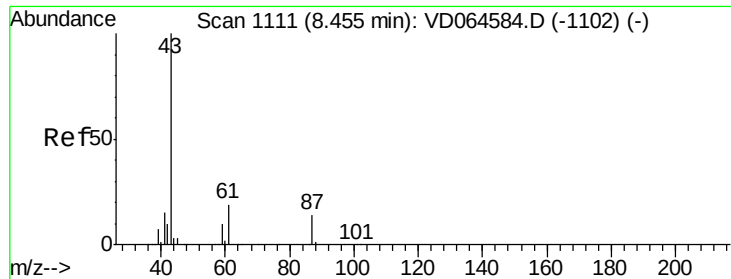
#42
1,2-Dichloroethane
Concen: 24.537 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	62	Resp	90014
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	20.0



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





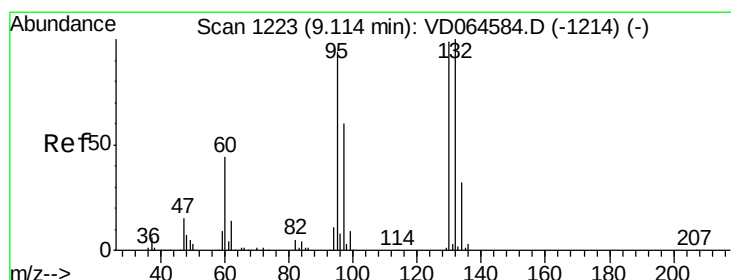
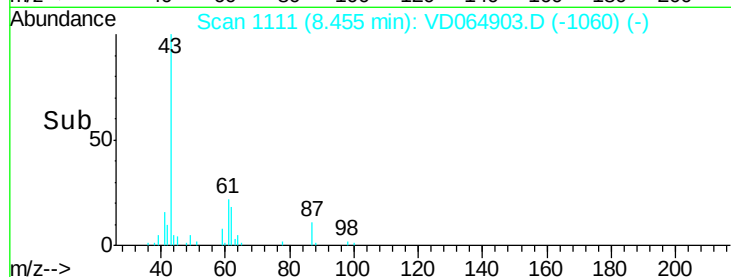
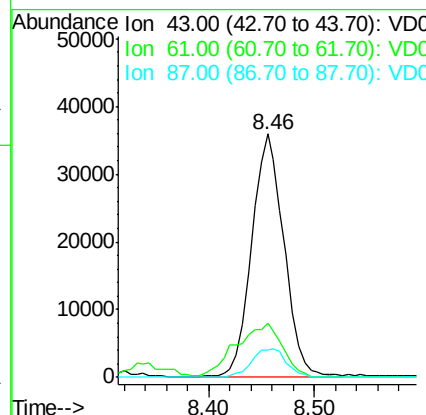
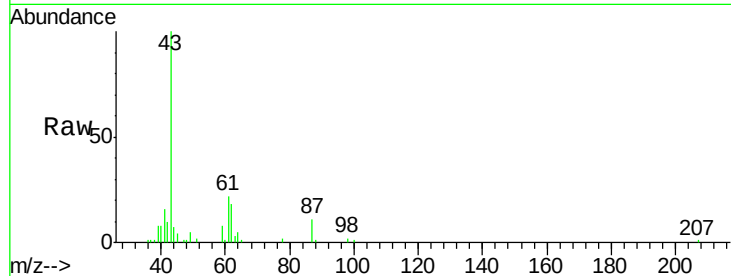
#43
Isopropyl Acetate
Concen: 21.053 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.8	23.7	35.5
87	12.5	10.5	15.7

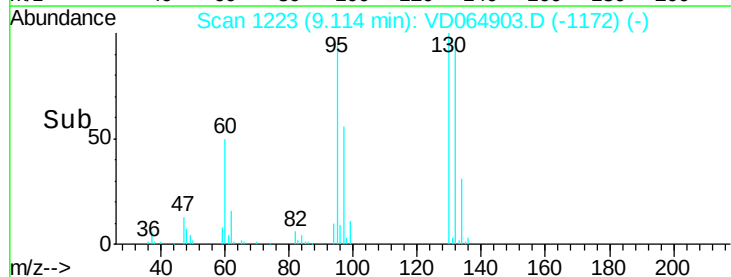
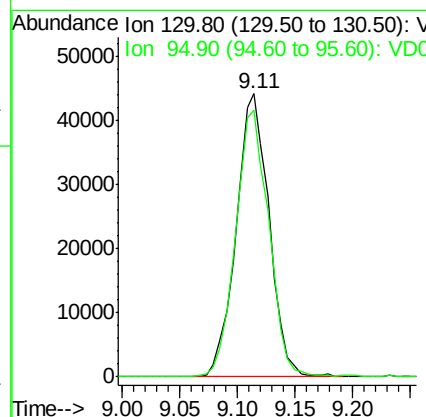
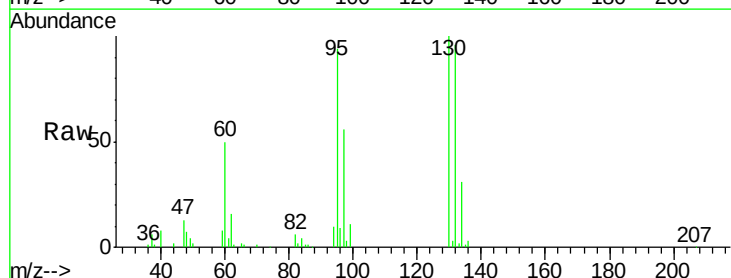
Manual Integrations
APPROVED

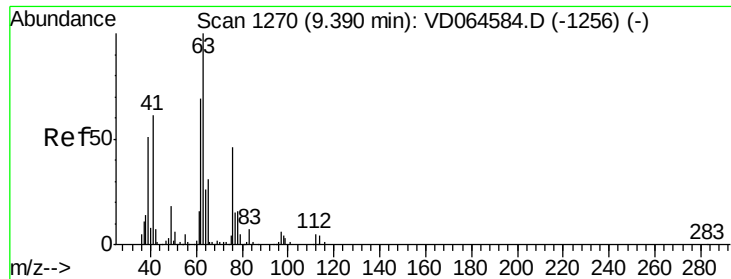
MMDadoda
1/22/2020 10:49:24 AM



#44
Trichloroethene
Concen: 23.269 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.2	0.0	190.2





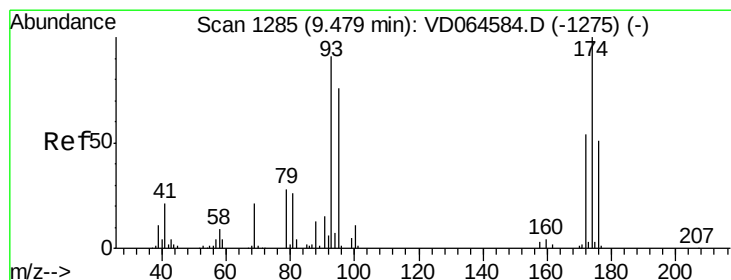
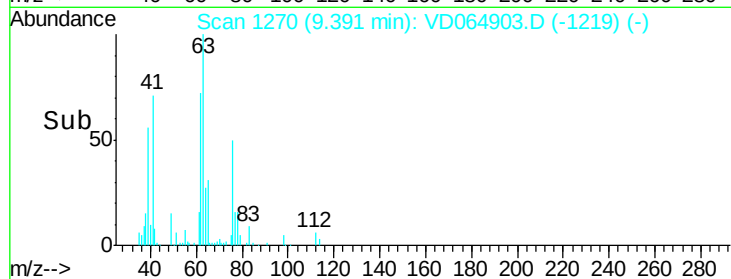
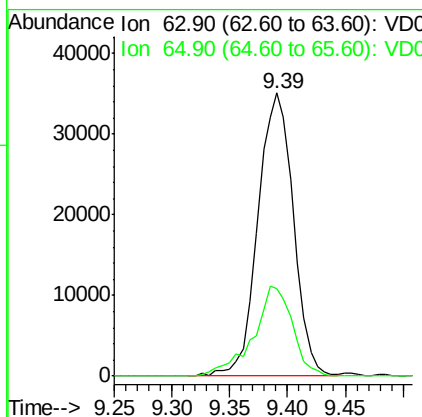
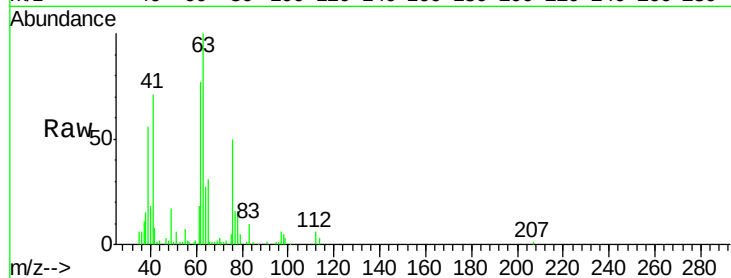
#45
 1,2-Dichloropropane
 Concen: 24.798 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion: 63 Resp: 75164
 Ion Ratio Lower Upper
 63 100
 65 31.0 25.2 37.8

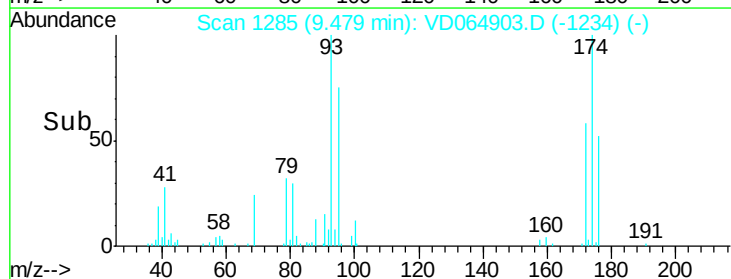
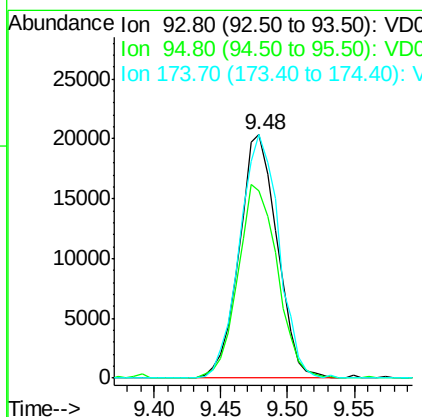
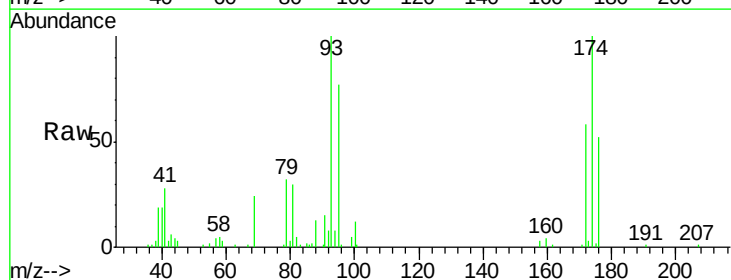
Manual Integrations
 APPROVED

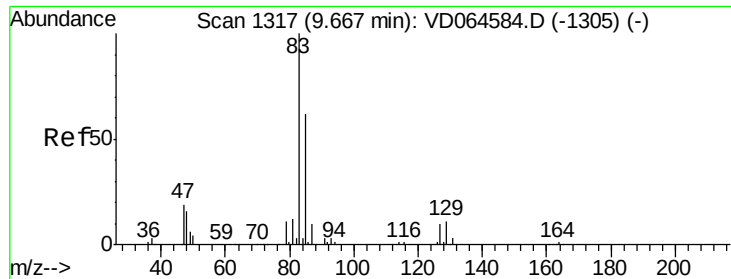
MMDadoda
 1/22/2020 10:49:24 AM



#46
 Dibromomethane
 Concen: 23.732 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion: 93 Resp: 40105
 Ion Ratio Lower Upper
 93 100
 95 82.5 64.6 97.0
 174 103.6 88.1 132.1





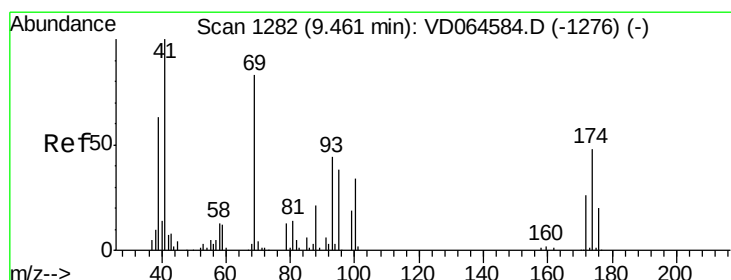
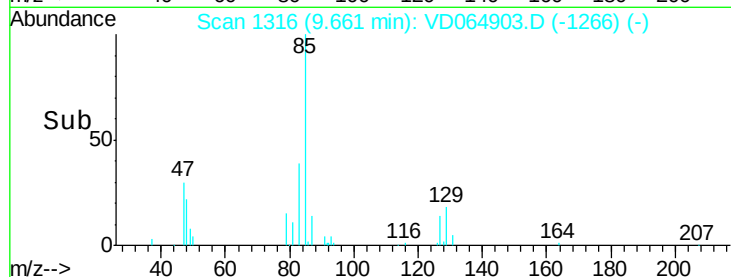
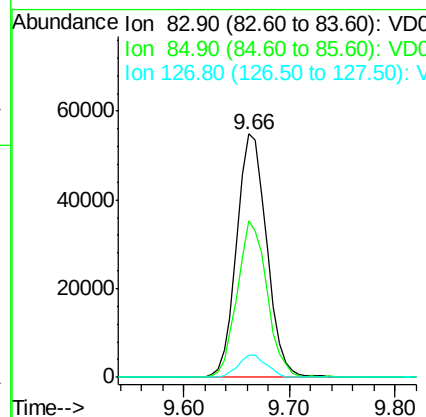
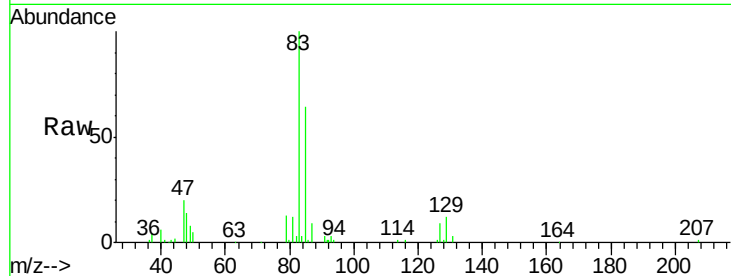
#47
Bromodichloromethane
Concen: 24.018 ug/l
RT: 9.66 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	108007		
85	64.3		49.5	74.3
127	9.1		7.8	11.6

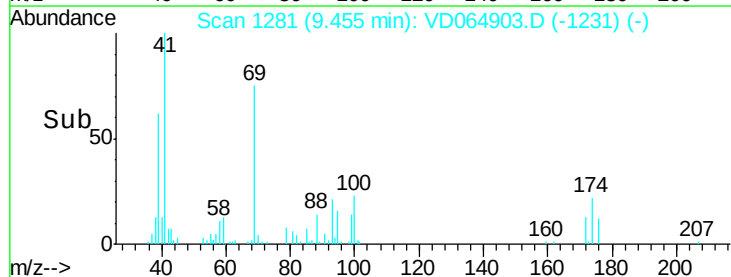
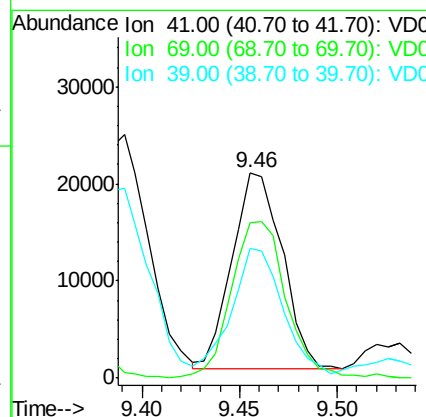
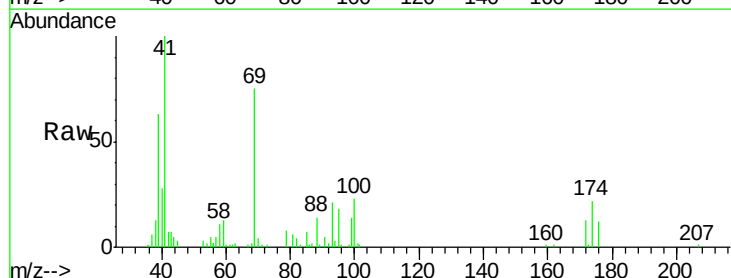
Manual Integrations
APPROVED

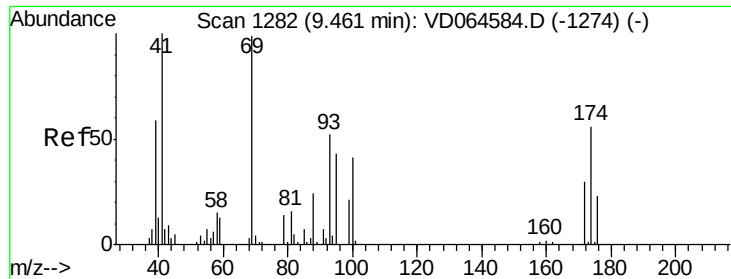
MMDadoda
1/22/2020 10:49:24 AM



#48
Methyl methacrylate
Concen: 21.163 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	36235		
69	86.5		63.0	94.6
39	63.8		47.4	71.2





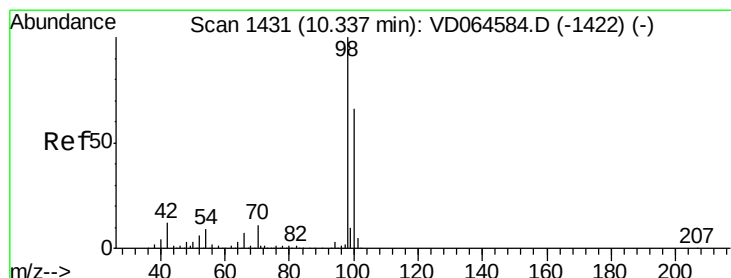
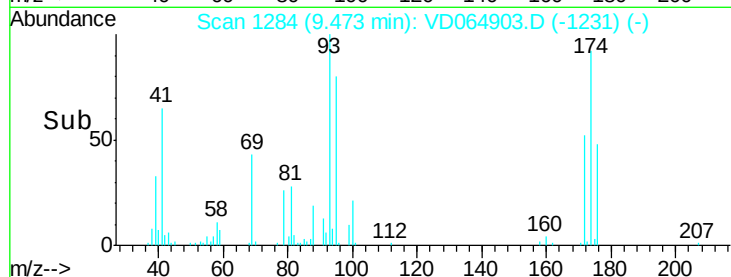
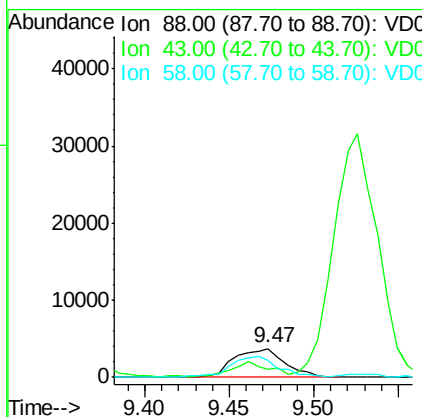
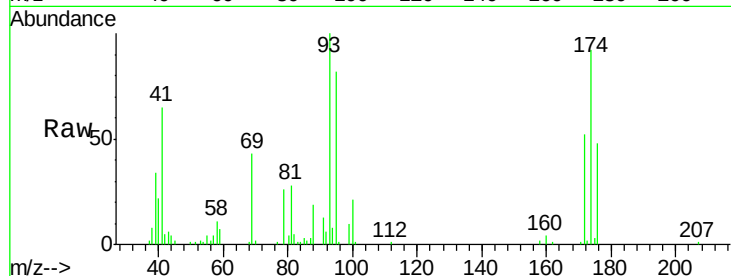
#49
1,4-Dioxane
Concen: 401.568 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion: 88 Resp: 7825
Ion Ratio Lower Upper
88 100
43 43.3 27.7 41.5#
58 68.9 53.8 80.6

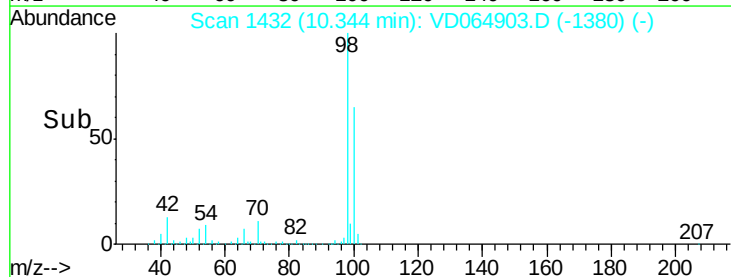
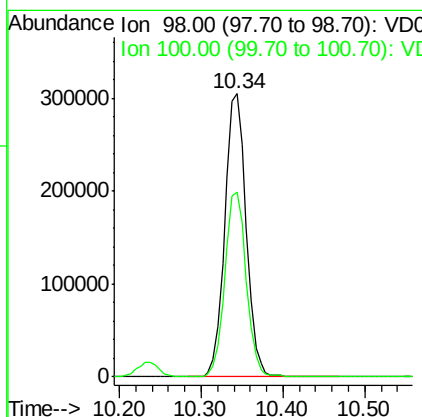
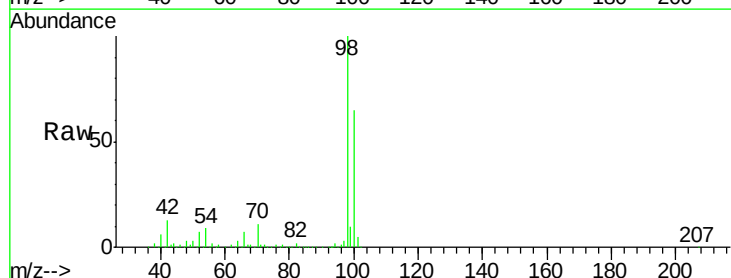
Manual Integrations
APPROVED

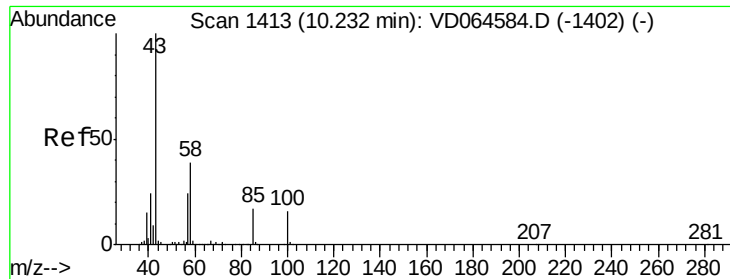
MMDadoda
1/22/2020 10:49:24 AM



#50
Toluene-d8
Concen: 48.886 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion: 98 Resp: 554989
Ion Ratio Lower Upper
98 100
100 65.4 51.7 77.5





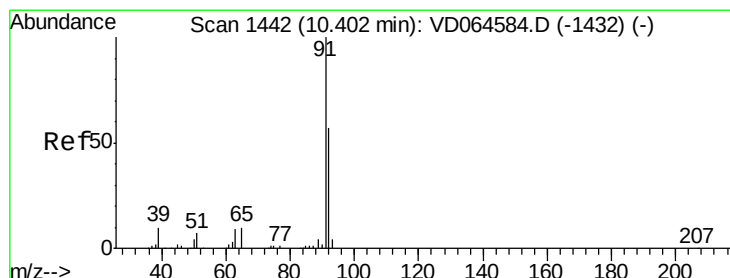
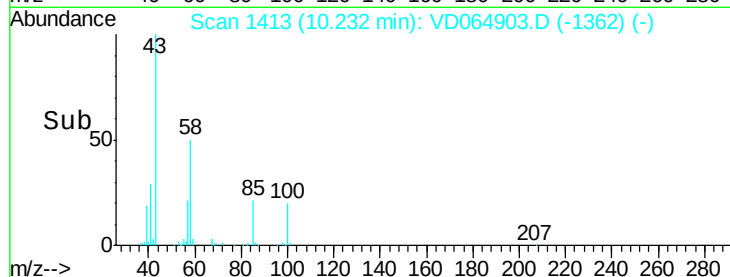
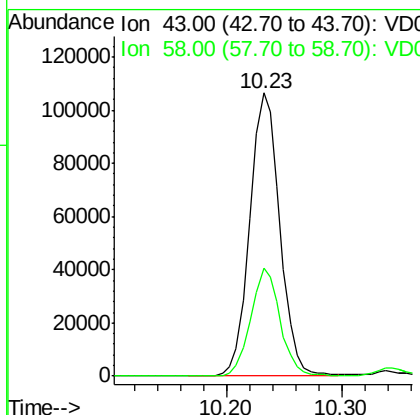
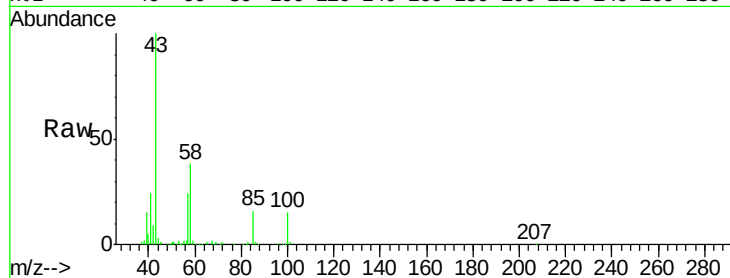
#51
4-Methyl-2-Pentanone
Concen: 107.584 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	37.2	30.2	45.2

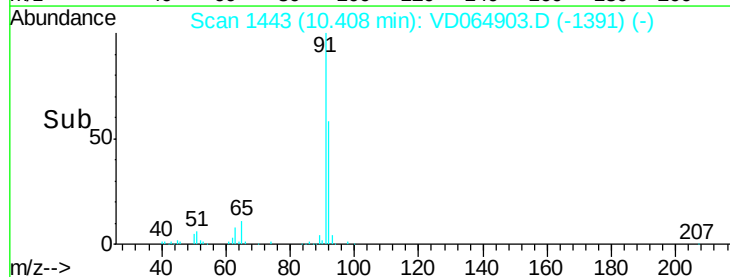
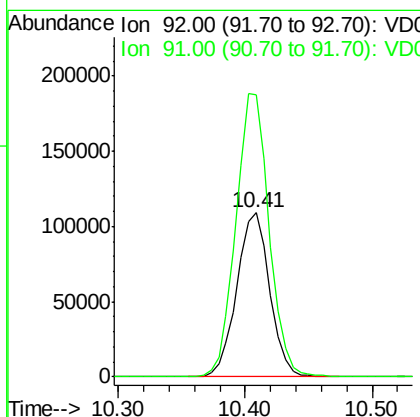
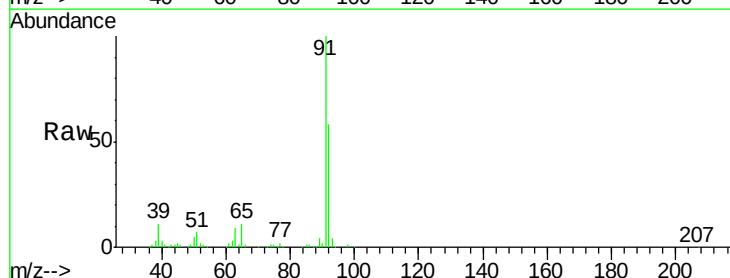
Manual Integrations
APPROVED

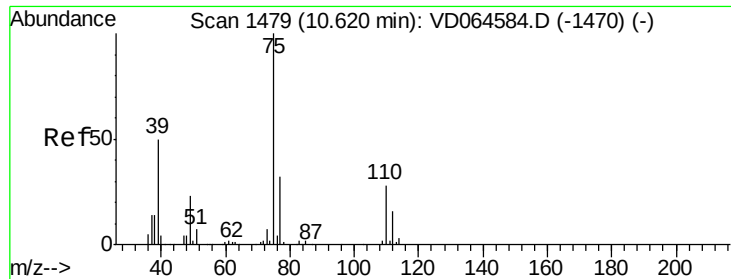
MMDadoda
1/22/2020 10:49:24 AM



#52
Toluene
Concen: 23.608 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.5	138.7	208.1





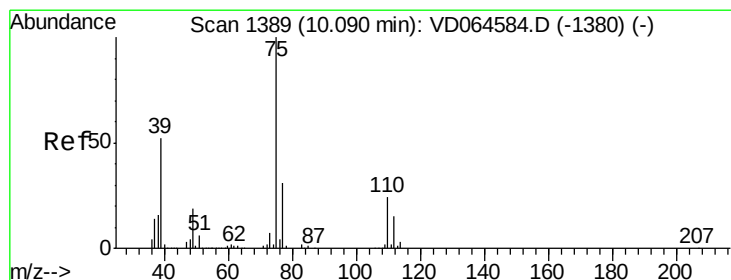
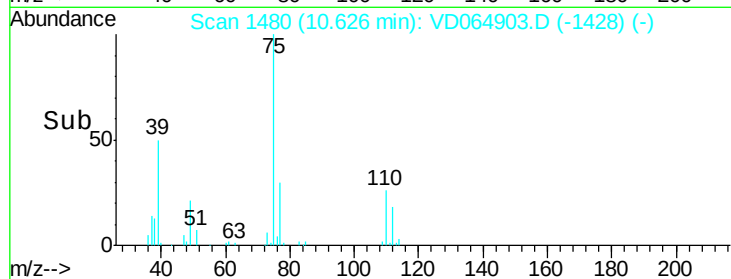
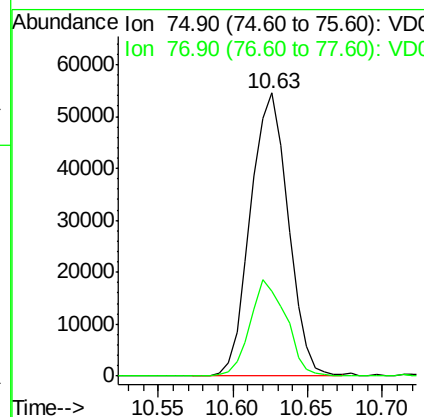
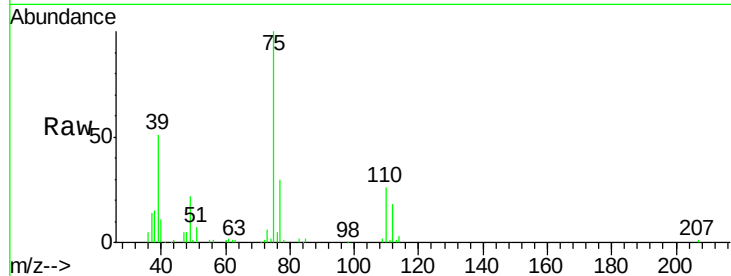
#53
 t-1,3-Dichloropropene
 Concen: 22.802 ug/l
 RT: 10.63 min Scan# 1480
 Delta R.T. 0.01 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion: 75 Resp: 95600
 Ion Ratio Lower Upper
 75 100
 77 30.2 25.4 38.2

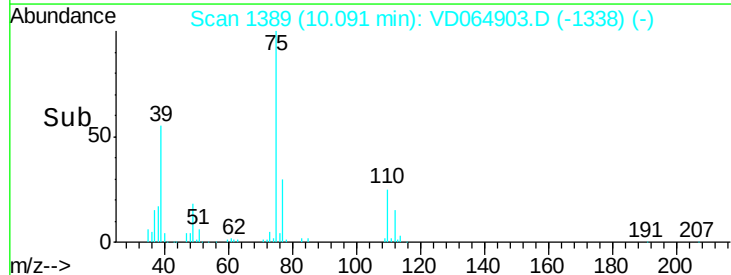
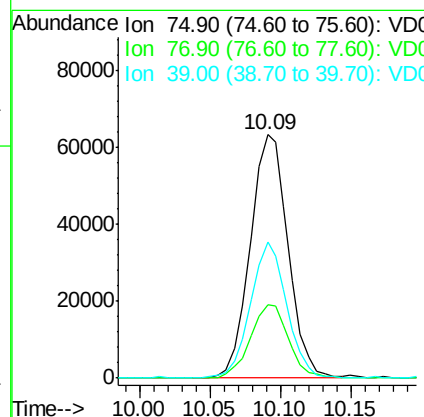
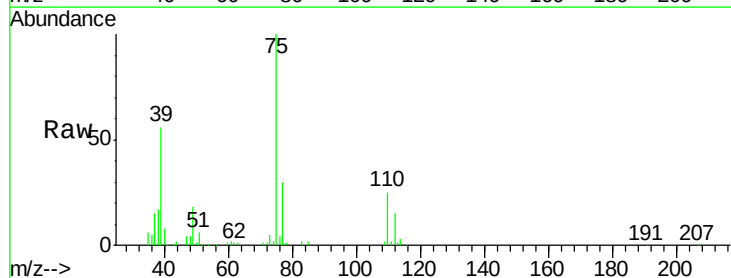
Manual Integrations
 APPROVED

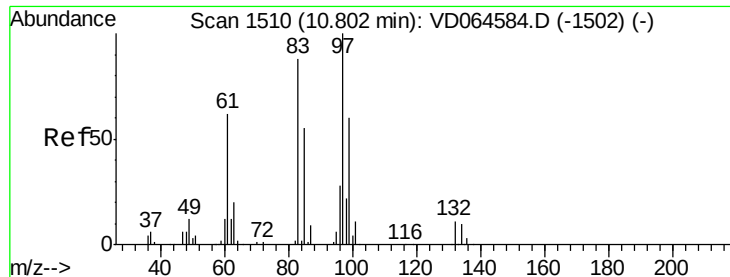
MMDadoda
 1/22/2020 10:49:24 AM



#54
 cis-1,3-Dichloropropene
 Concen: 24.043 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion: 75 Resp: 118856
 Ion Ratio Lower Upper
 75 100
 77 30.2 24.6 36.8
 39 55.7 41.4 62.2





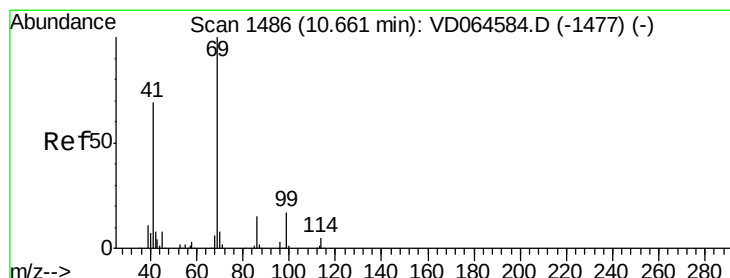
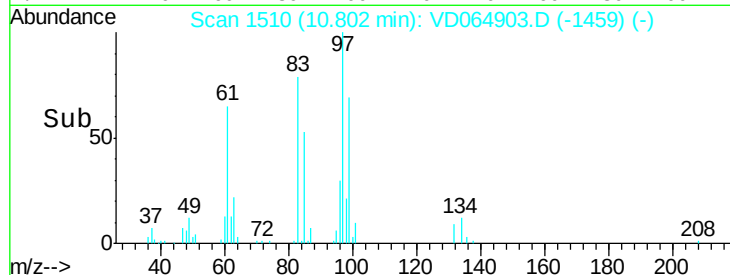
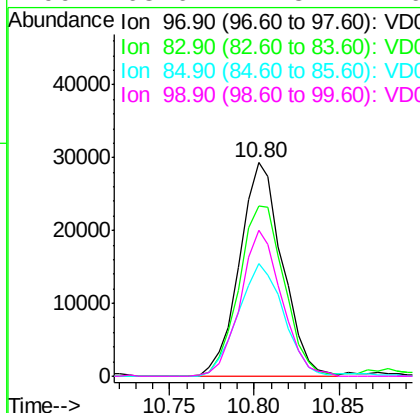
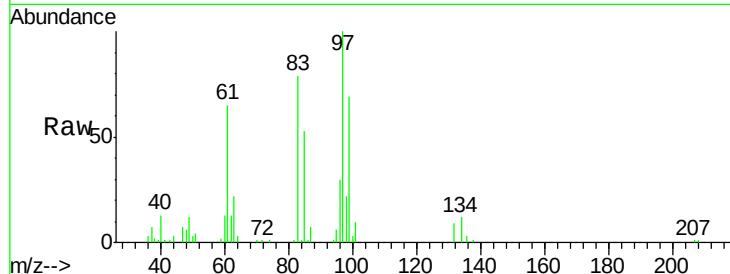
#55
 1,1,2-Trichloroethane
 Concen: 22.741 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	79.4	70.2	105.4
85	52.7	44.0	66.0
99	68.6	47.8	71.6

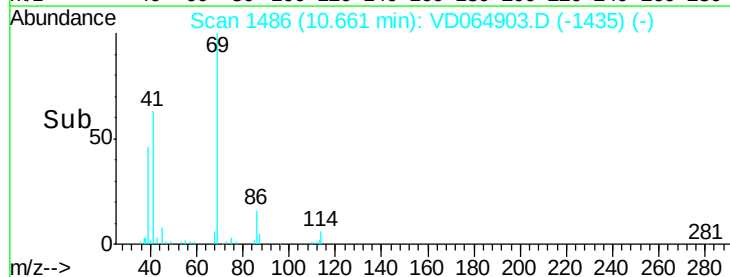
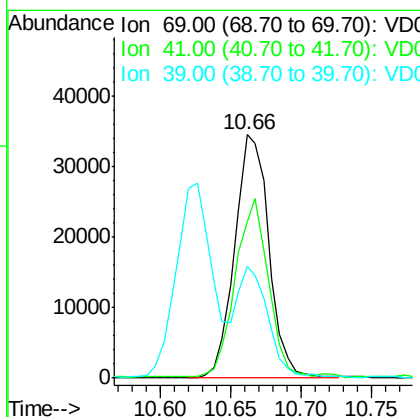
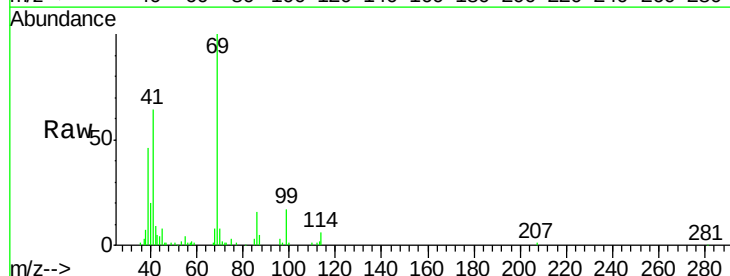
Manual Integrations
 APPROVED

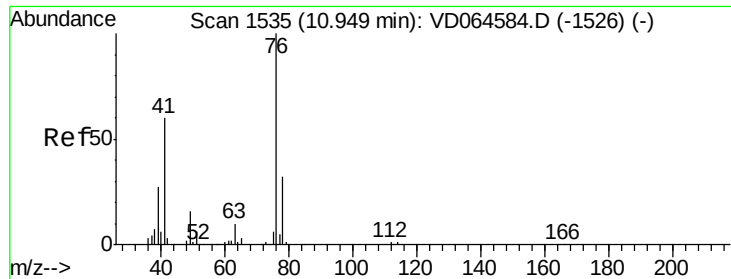
MMDadoda
 1/22/2020 10:49:24 AM



#56
 Ethyl methacrylate
 Concen: 20.637 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
69	100		
41	69.8	55.3	82.9
39	40.6	33.8	50.8





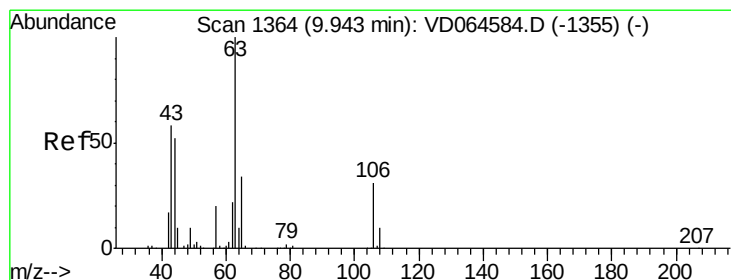
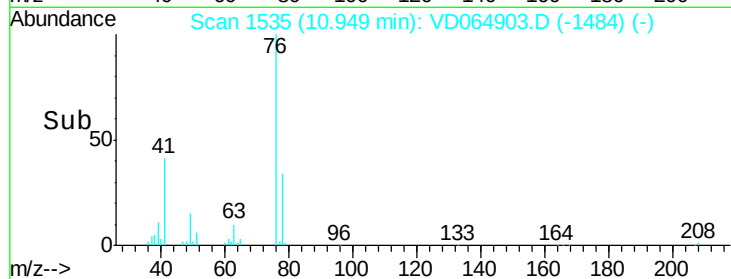
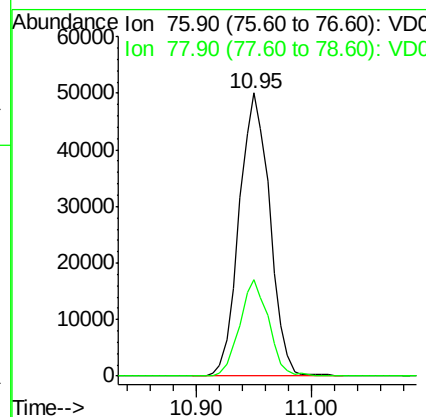
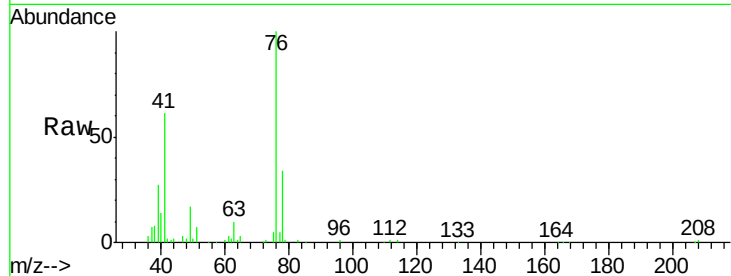
#57
 1,3-Dichloropropane
 Concen: 23.434 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion: 76 Resp: 91892
 Ion Ratio Lower Upper
 76 100
 78 32.1 26.2 39.4

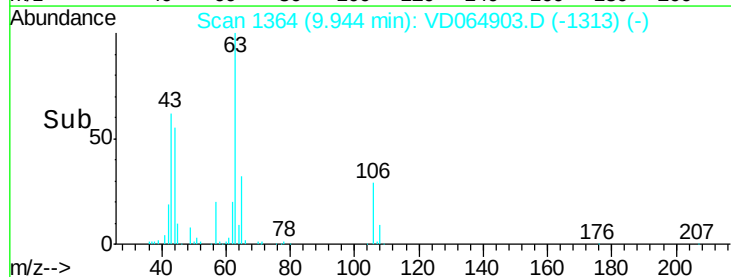
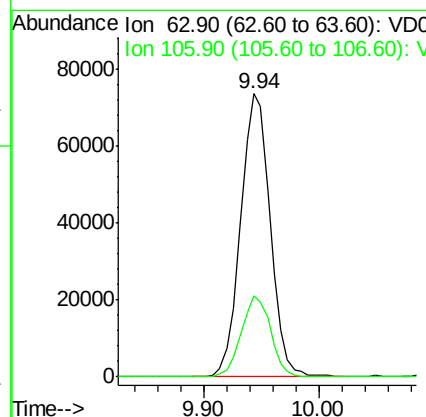
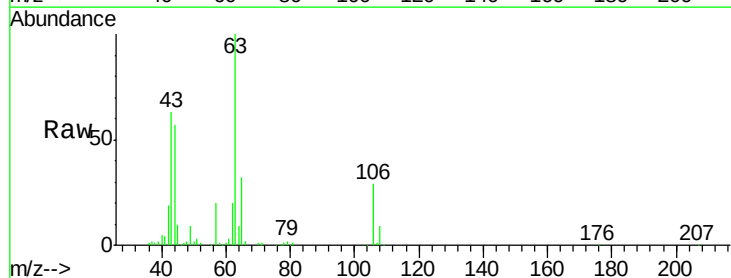
Manual Integrations
 APPROVED

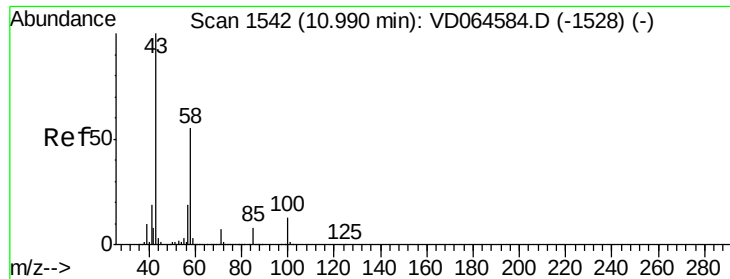
MMDadoda
 1/22/2020 10:49:24 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 120.348 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion: 63 Resp: 130415
 Ion Ratio Lower Upper
 63 100
 106 28.4 23.8 35.8





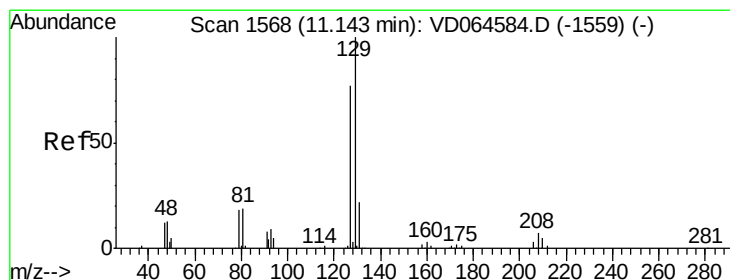
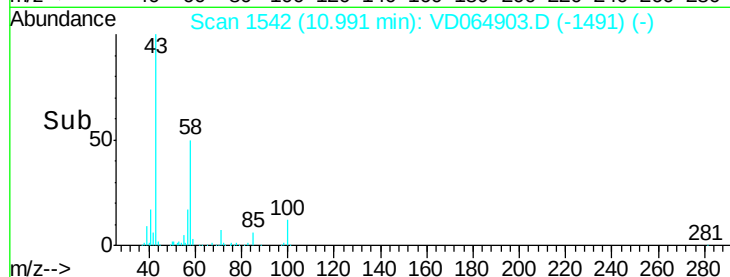
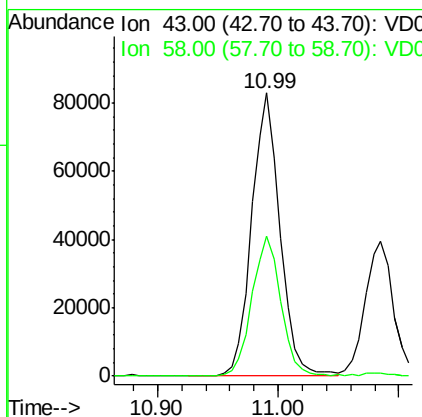
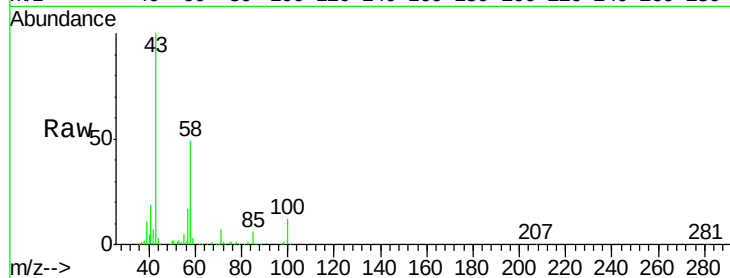
#59
2-Hexanone
Concen: 111.393 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion: 43 Resp: 135887
Ion Ratio Lower Upper
43 100
58 50.7 26.4 79.0

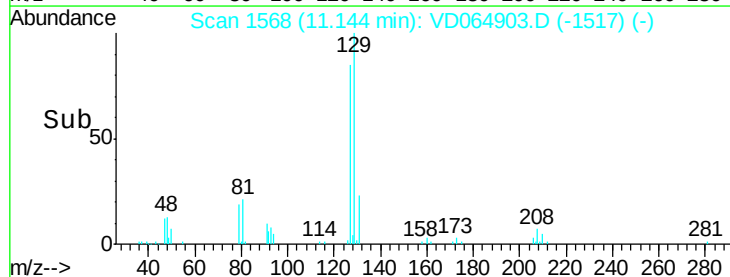
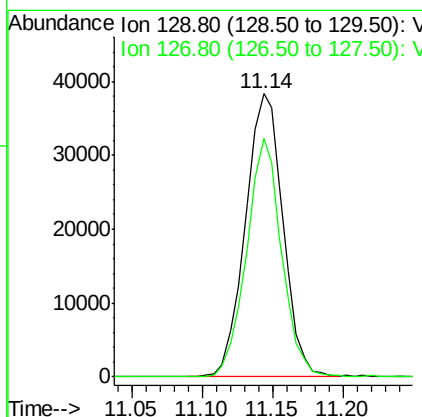
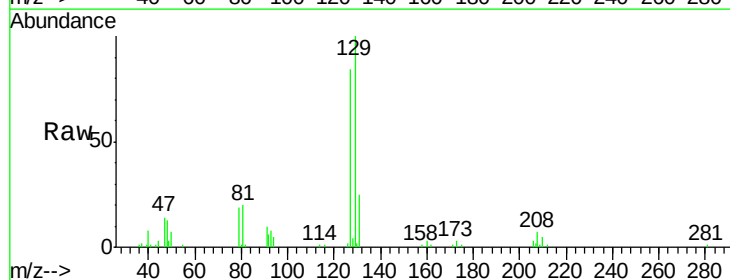
Manual Integrations
APPROVED

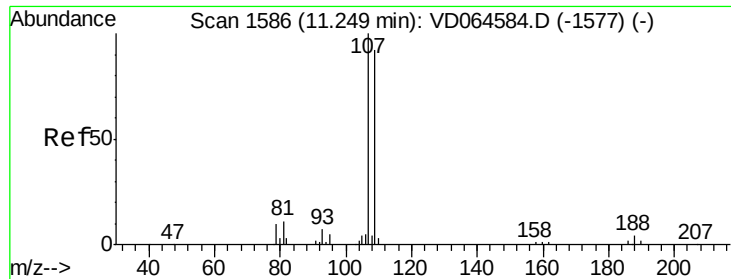
MMDadoda
1/22/2020 10:49:24 AM



#60
Dibromochloromethane
Concen: 22.706 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion: 129 Resp: 71512
Ion Ratio Lower Upper
129 100
127 78.7 38.4 115.2





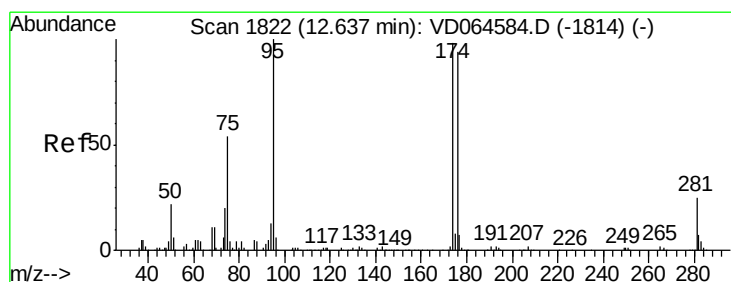
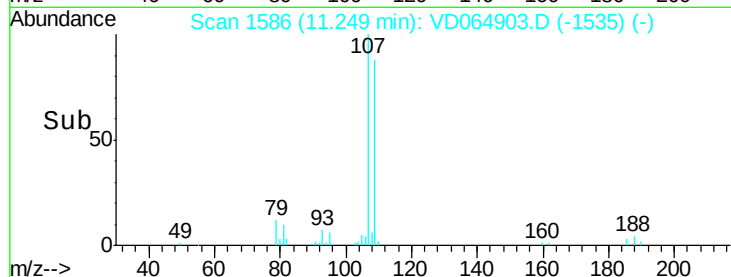
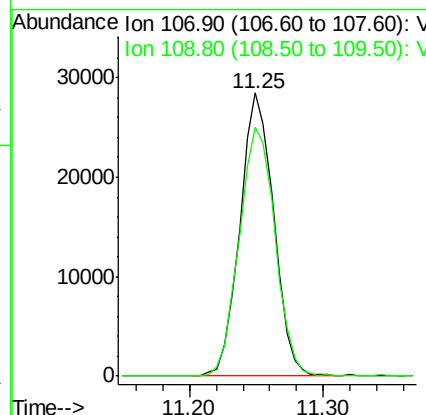
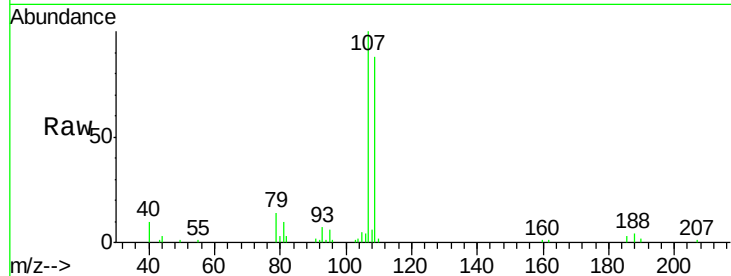
#61
 1,2-Dibromoethane
 Concen: 22.172 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.2	75.6	113.4

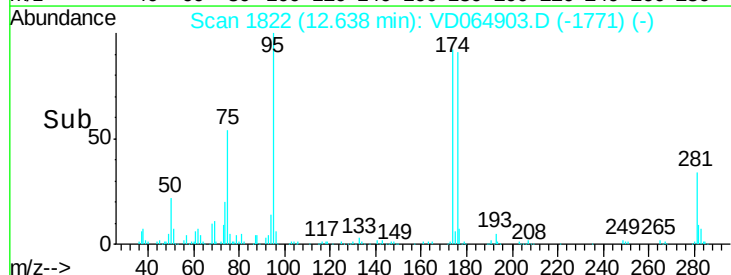
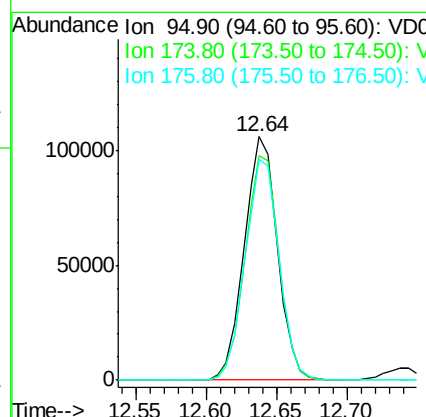
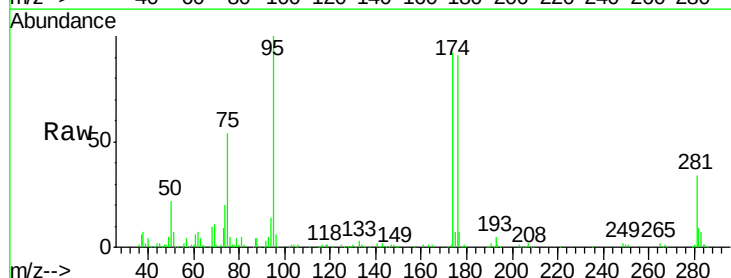
Manual Integrations
 APPROVED

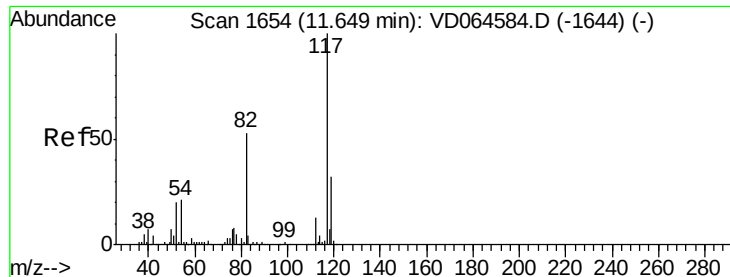
MMDadoda
 1/22/2020 10:49:24 AM



#62
 4-Bromofluorobenzene
 Concen: 48.651 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.0	0.0	193.2
176	92.7	0.0	184.2





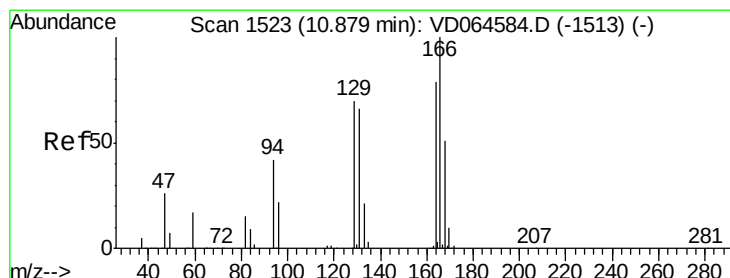
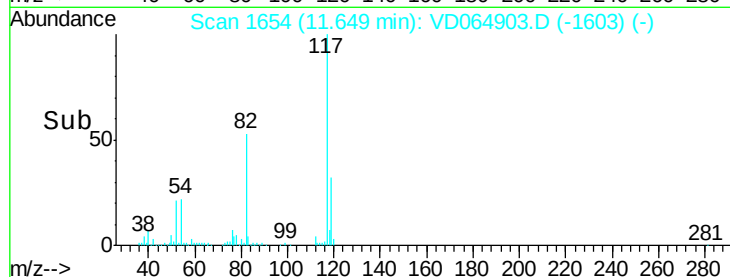
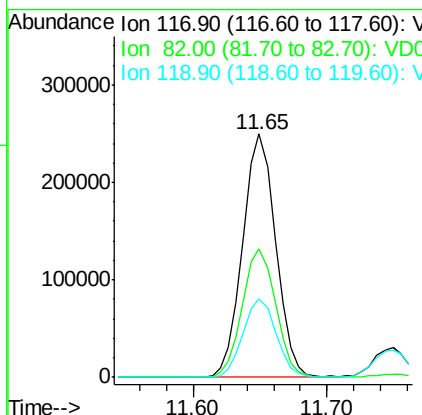
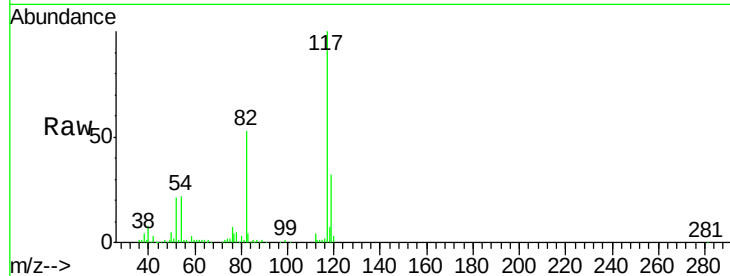
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.2	63.4
119	32.0	26.0	39.0

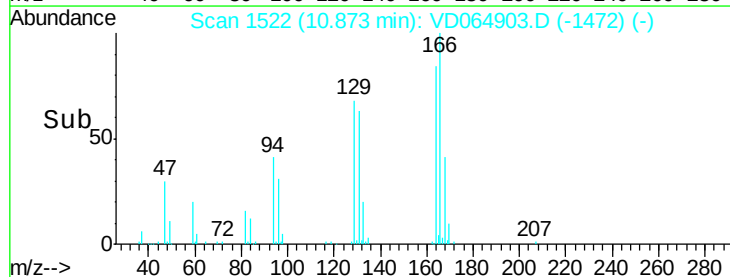
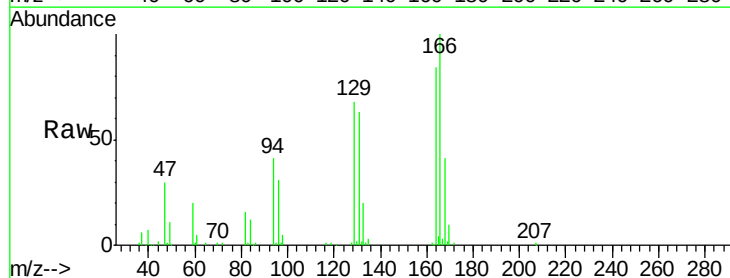
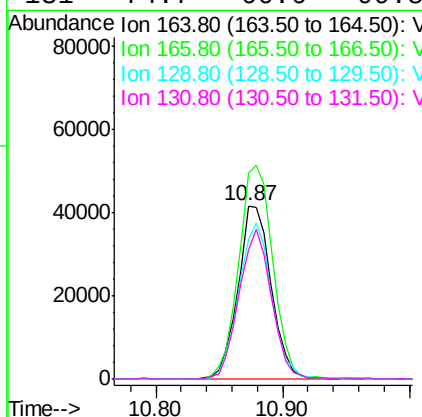
Manual Integrations
APPROVED

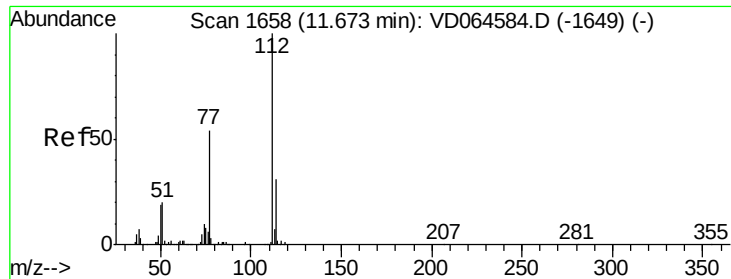
MMDadoda
1/22/2020 10:49:24 AM



#64
Tetrachloroethene
Concen: 22.941 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.8	101.3	151.9
129	80.3	70.5	105.7
131	74.7	66.6	99.8





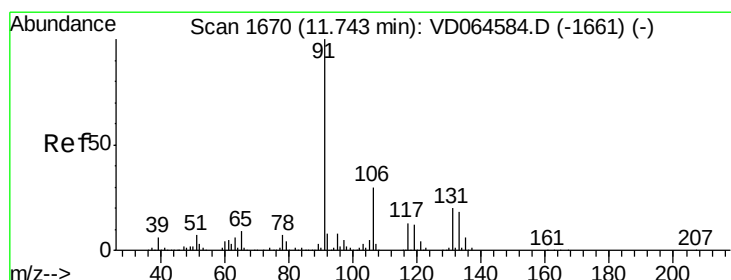
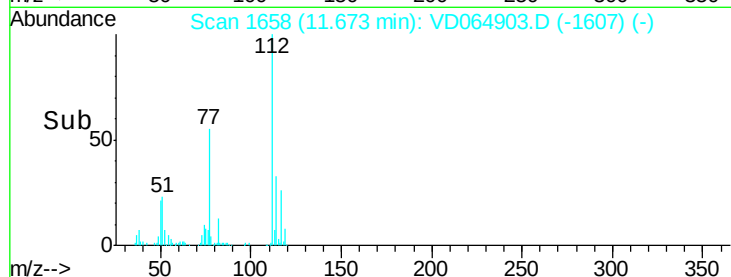
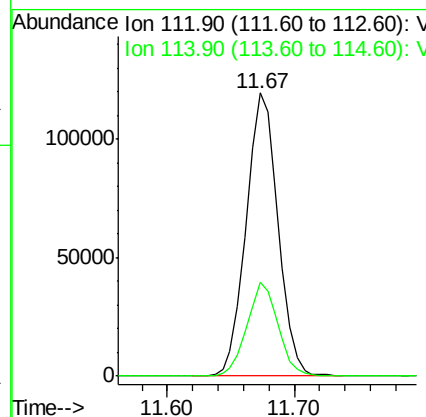
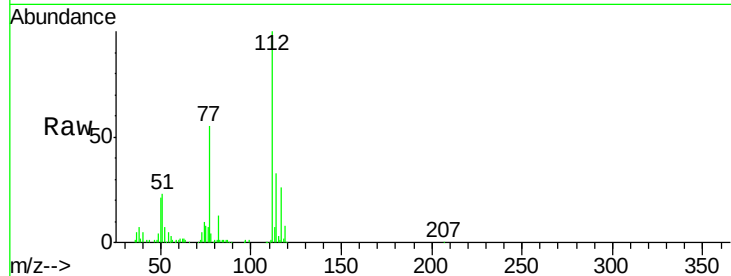
#65
Chlorobenzene
Concen: 23.471 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion:112 Resp: 208740
Ion Ratio Lower Upper
112 100
114 33.3 24.8 37.2

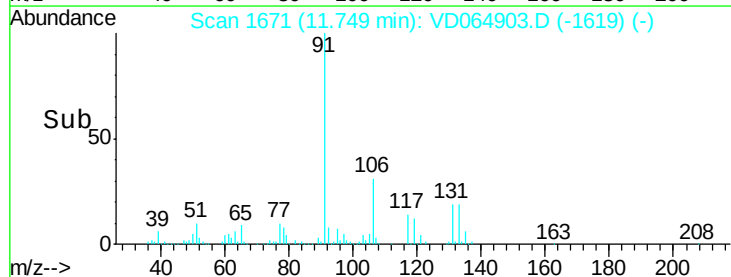
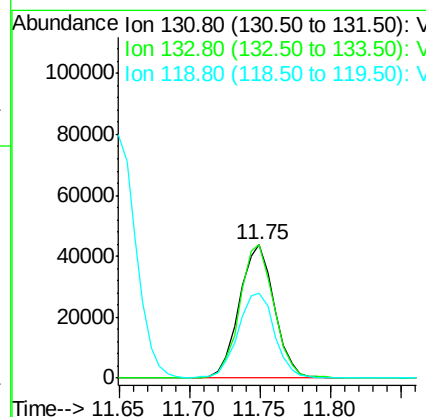
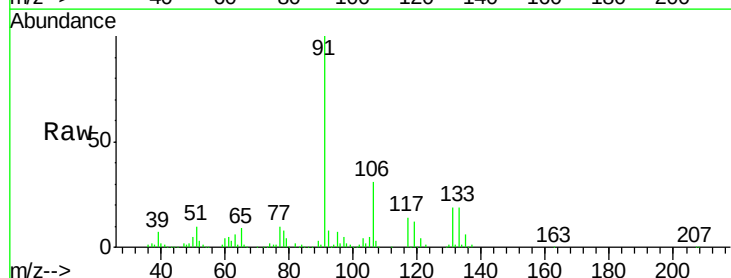
Manual Integrations
APPROVED

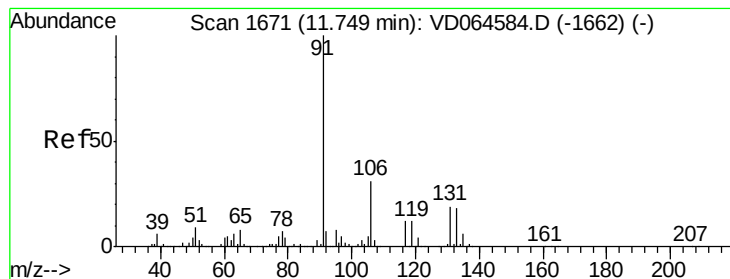
MMDadoda
1/22/2020 10:49:24 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.595 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion:131 Resp: 75755
Ion Ratio Lower Upper
131 100
133 98.3 48.3 144.8
119 66.7 32.1 96.3





#67

Ethyl Benzene

Concen: 22.960 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 91 Resp: 370633

Ion Ratio Lower Upper

91 100

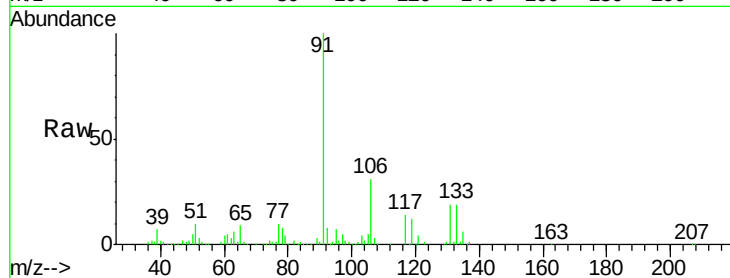
106 31.3 24.6 36.8

Manual Integrations

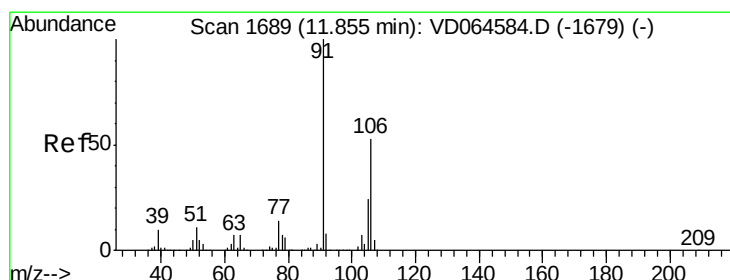
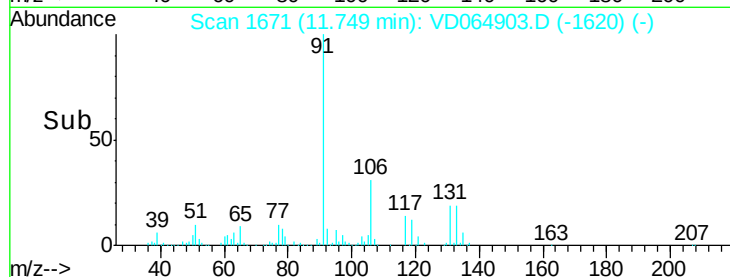
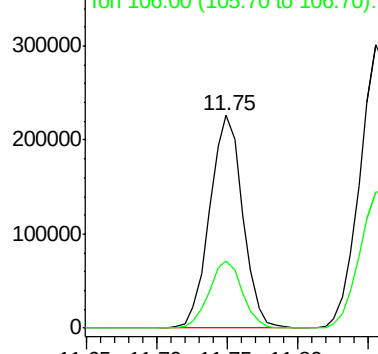
APPROVED

MMDadoda

1/22/2020 10:49:24 AM



Abundance Ion 91.00 (90.70 to 91.70): VD064584.D (-1662) (-)



#68

m/p-Xylenes

Concen: 45.538 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064903.D

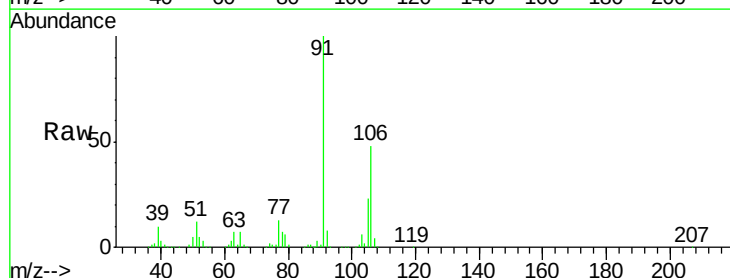
Acq: 21 Jan 2020 10:51

Tgt Ion: 106 Resp: 283732

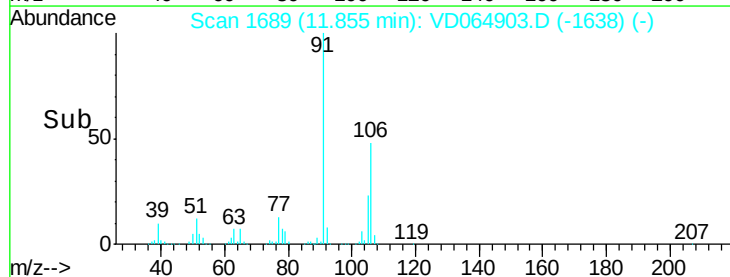
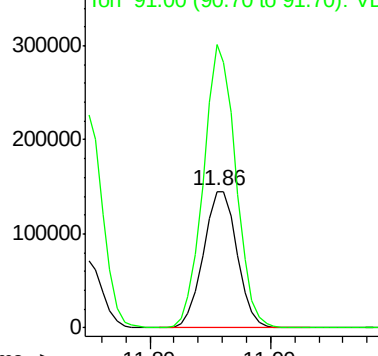
Ion Ratio Lower Upper

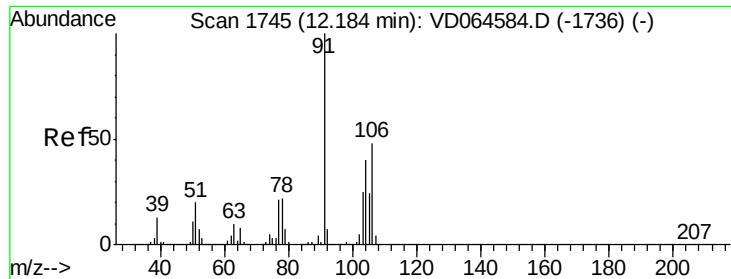
106 100

91 198.2 156.3 234.5



Abundance Ion 106.00 (105.70 to 106.70): VD064584.D (-1679) (-)





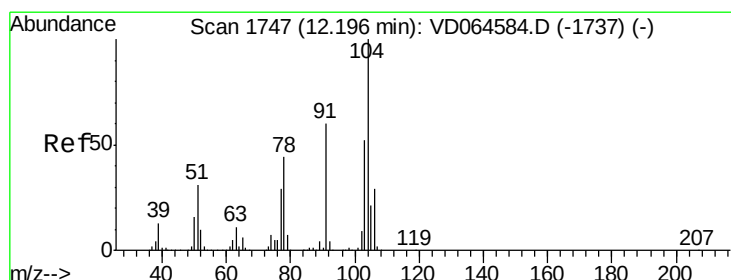
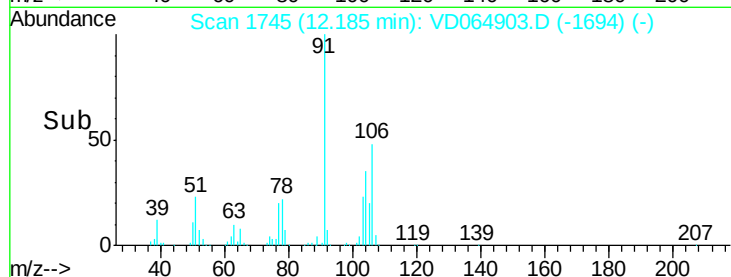
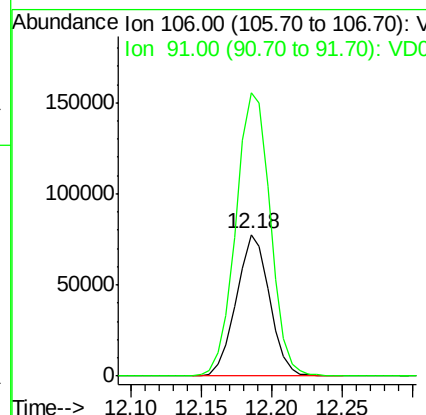
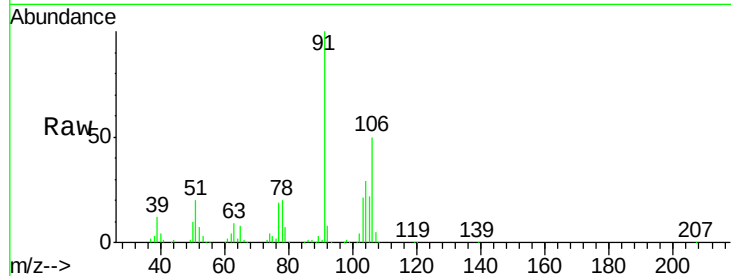
#69
o-Xylene
Concen: 22.640 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		127413		
91	208.1	104.8	314.4		

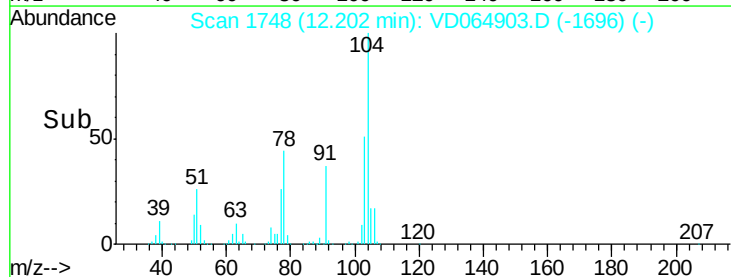
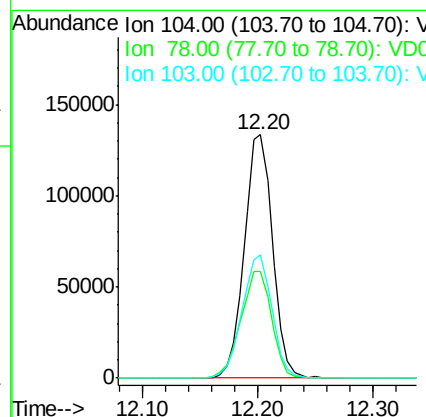
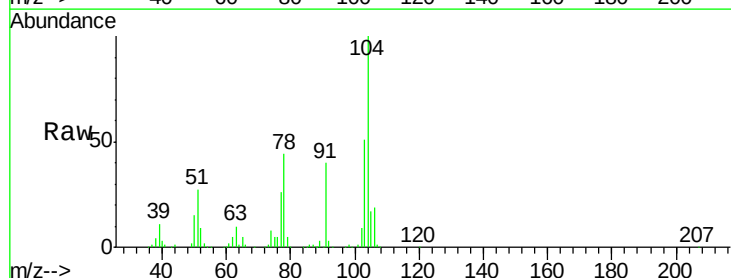
Manual Integrations
APPROVED

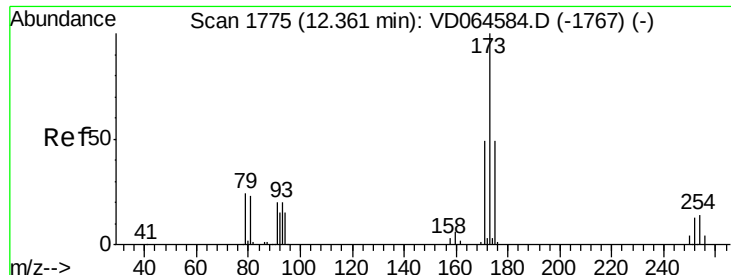
MMDadoda
1/22/2020 10:49:24 AM



#70
Styrene
Concen: 22.887 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		226091		
78	47.9	38.2	57.2		
103	53.6	44.6	67.0		





#71

Bromoform

Concen: 21.442 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion:173 Resp: 40996

Ion Ratio Lower Upper

173 100

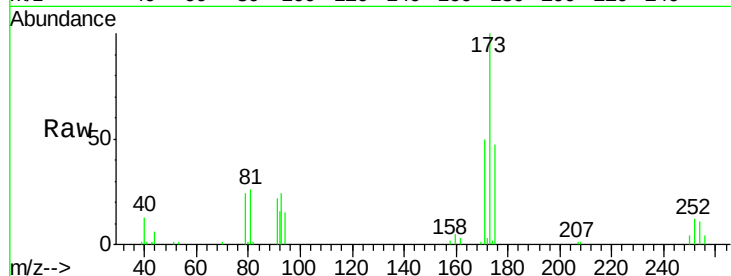
175 47.9 24.6 73.8

254 0.0 0.1 0.1#

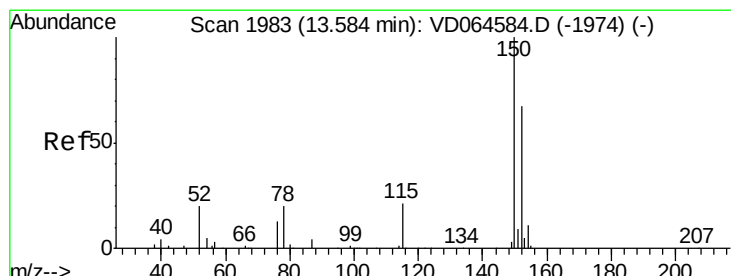
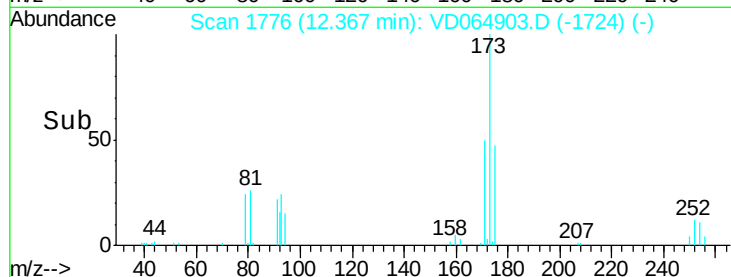
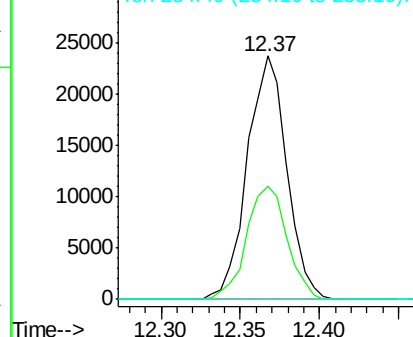
Manual Integrations
APPROVED

MMDadoda

1/22/2020 10:49:24 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

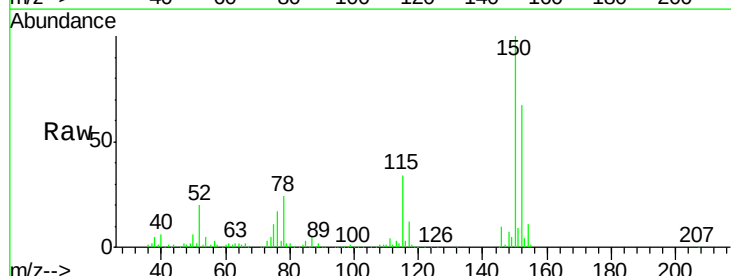
Tgt Ion:152 Resp: 214863

Ion Ratio Lower Upper

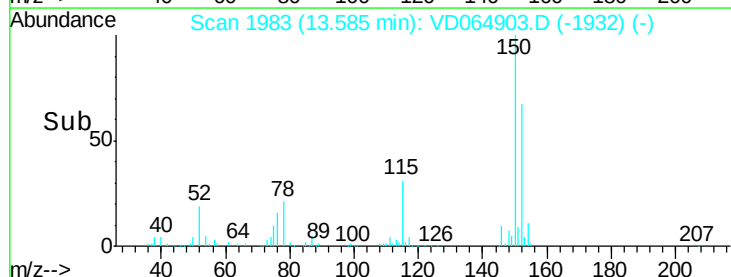
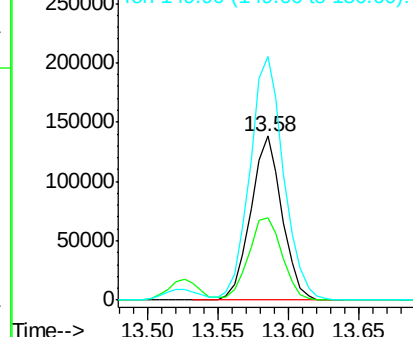
152 100

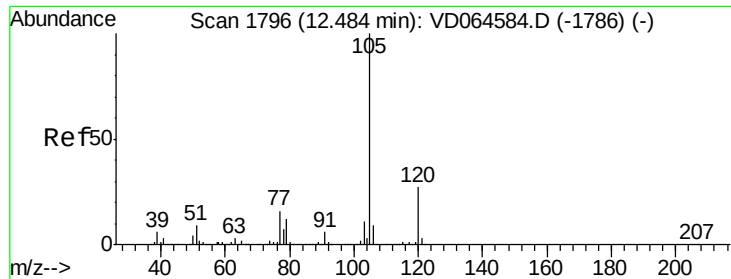
115 54.3 27.8 83.4

150 160.3 0.0 351.4



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





#73

Isopropylbenzene

Concen: 23.120 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion:105 Resp: 355000

Ion Ratio Lower Upper

105 100

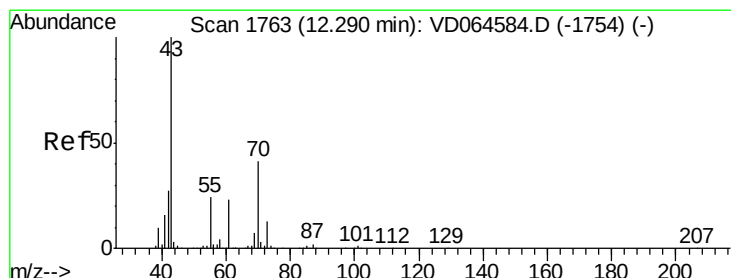
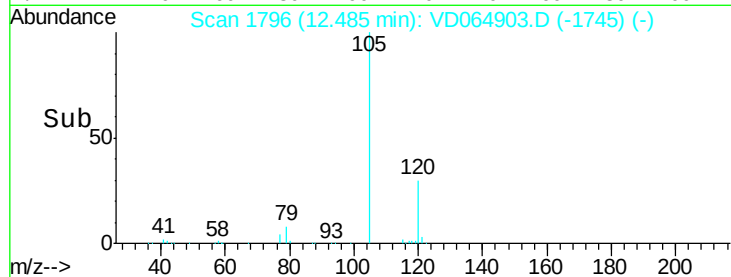
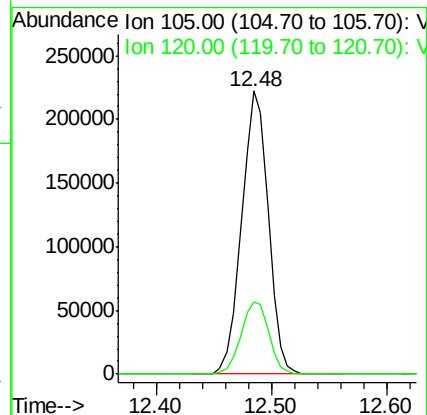
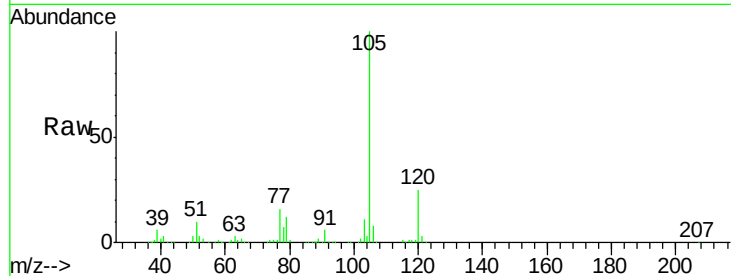
120 26.6 13.5 40.5

Manual Integrations

APPROVED

MMDadoda

1/22/2020 10:49:24 AM



#74

N-ethyl acetate

Concen: 20.183 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Tgt Ion: 43 Resp: 66245

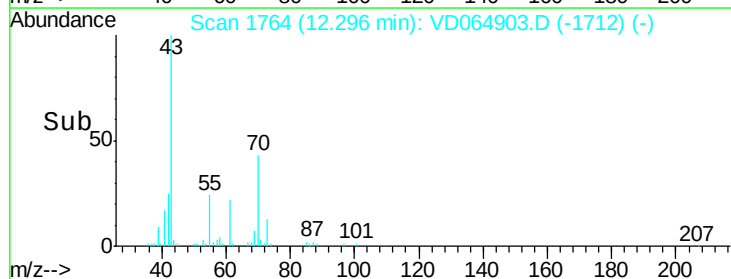
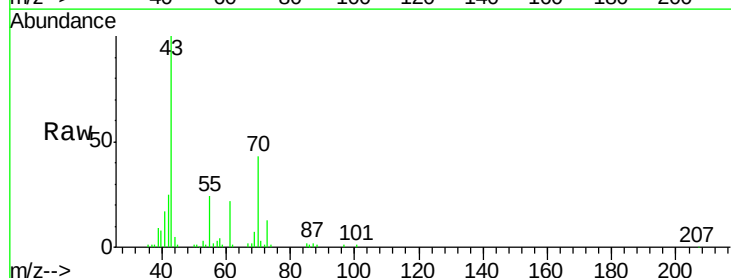
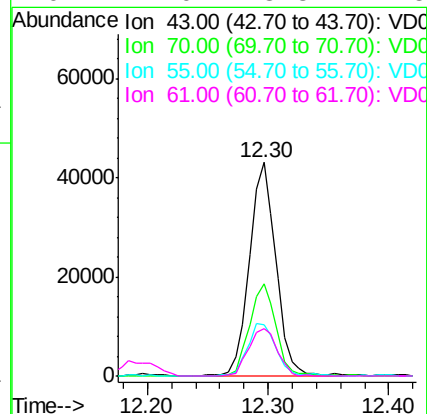
Ion Ratio Lower Upper

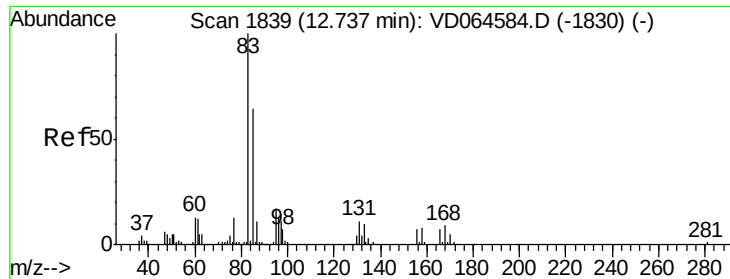
43 100

70 42.7 33.4 50.0

55 25.9 19.4 29.0

61 24.0 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 22.009 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

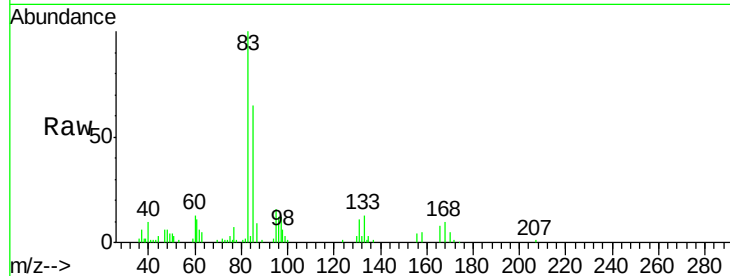
ClientSampleId :

VD0121SBS01

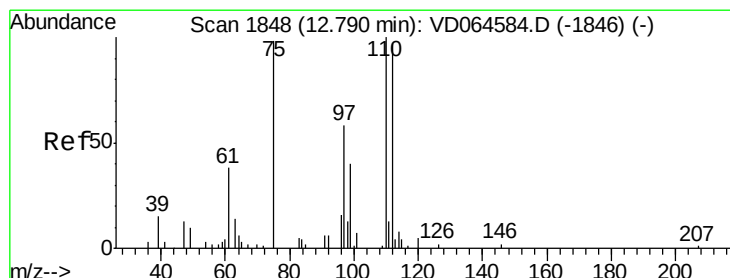
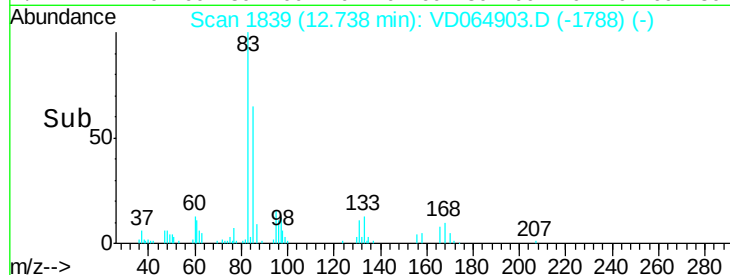
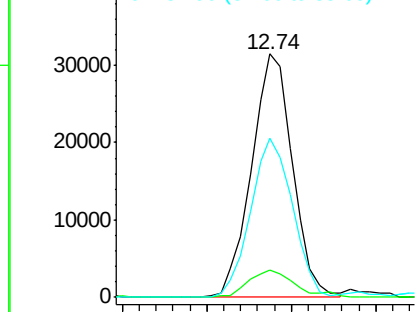
Tot Ion:	83	Resp:	53088
Ion Ratio	Lower	Upper	
83	100		
131	12.6	5.8	17.4
85	66.6	32.3	96.9

Manual Integrations
APPROVED

MMDadoda
1/22/2020 10:49:24 AM



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 130.80 (130.50 to 131.50): VDC
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 20.331 ug/l m

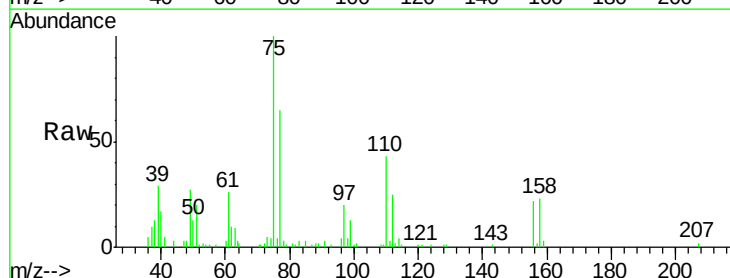
RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

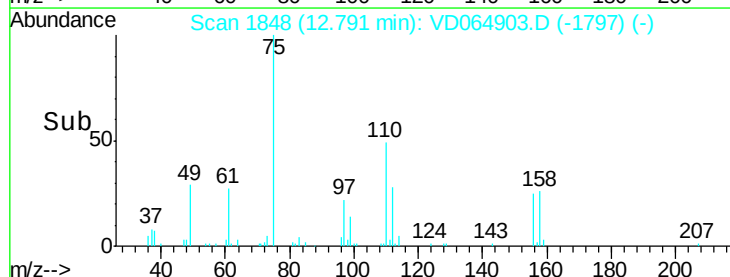
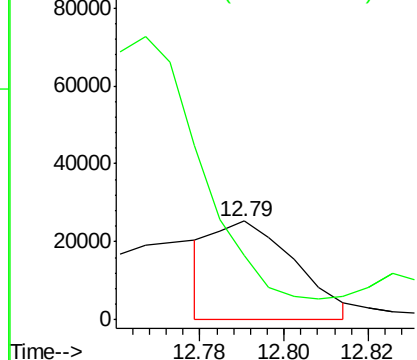
Lab File: VD064903.D

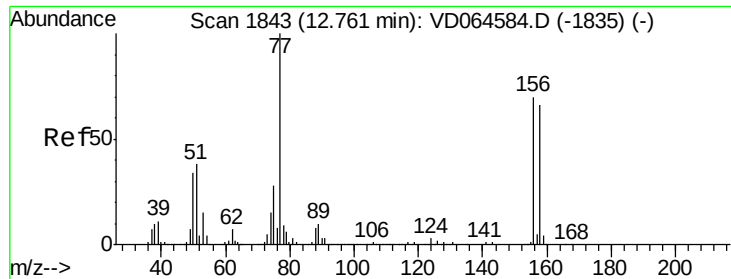
Acq: 21 Jan 2020 10:51

Tgt Ion:	75	Resp:	34496
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 22.503 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

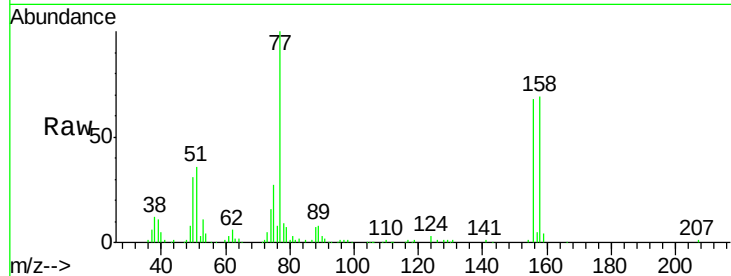
ClientSampleId :

VD0121SBS01

Tot Ion	156	Resp	84902
Ion	Ratio	Lower	Upper
156	100		
77	163.1	80.9	242.7
158	96.3	48.0	144.2

Manual Integrations
APPROVED

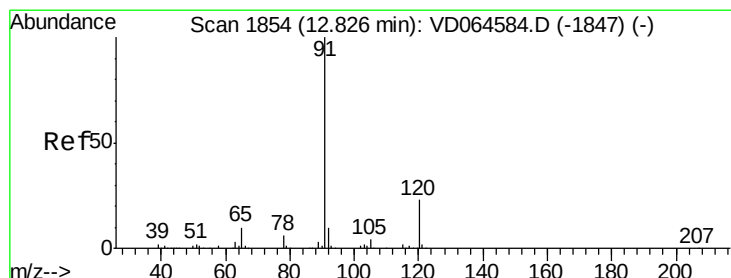
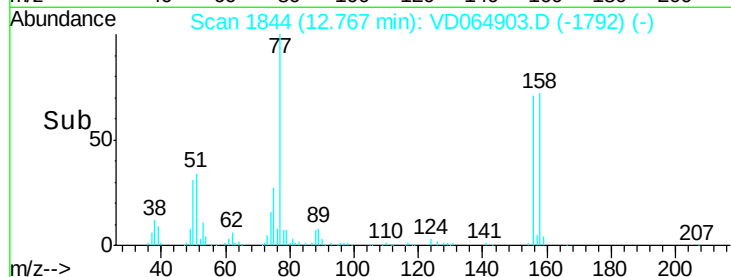
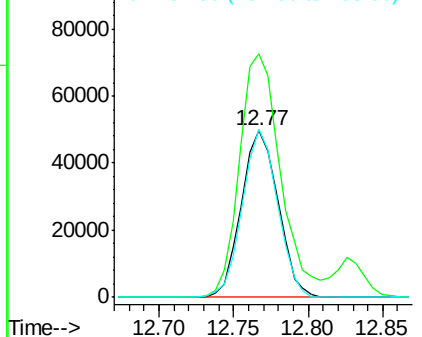
MMDadoda
1/22/2020 10:49:24 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 23.518 ug/l

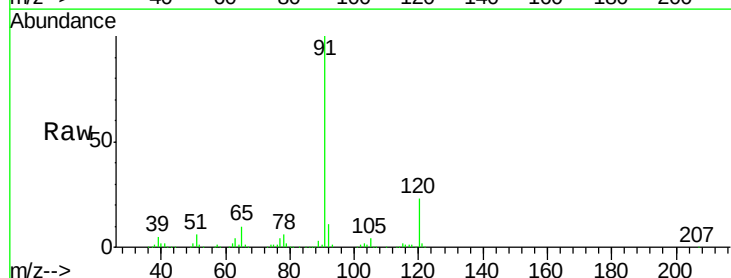
RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064903.D

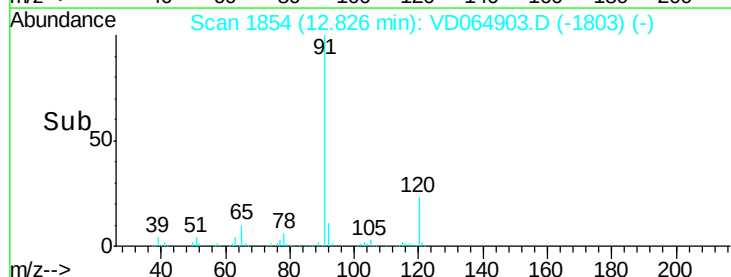
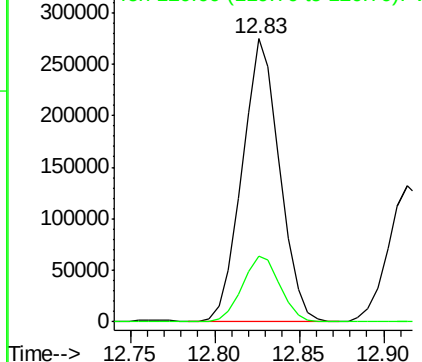
Acq: 21 Jan 2020 10:51

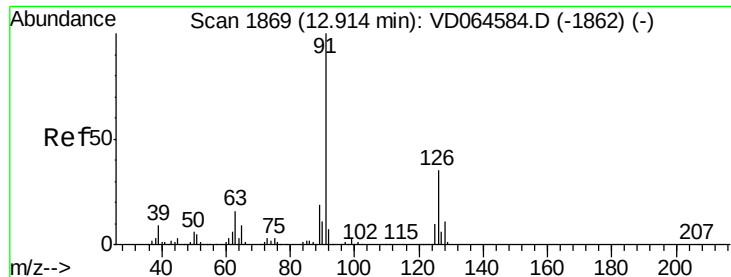
Tgt Ion	91	Resp	421271
Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.9	35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.603 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 91 Resp: 222419

Ion Ratio Lower Upper

91 100

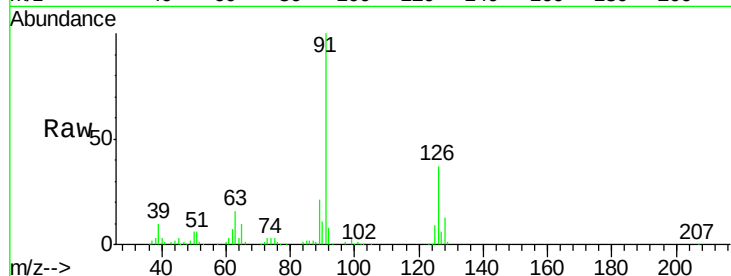
126 36.5 17.8 53.5

Manual Integrations

APPROVED

MMDadoda

1/22/2020 10:49:24 AM



Abundance Ion 91.00 (90.70 to 91.70): VD064584.D (-1862) (-)

Ion 125.90 (125.60 to 126.60): VD064584.D (-1862) (-)

150000

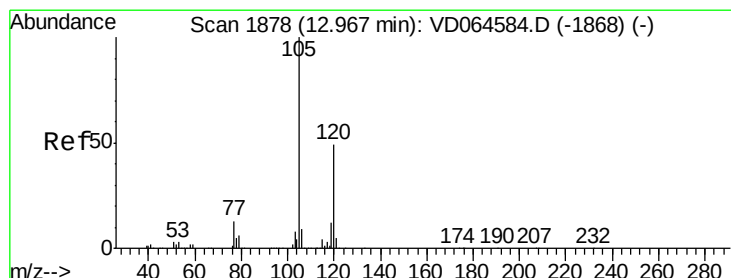
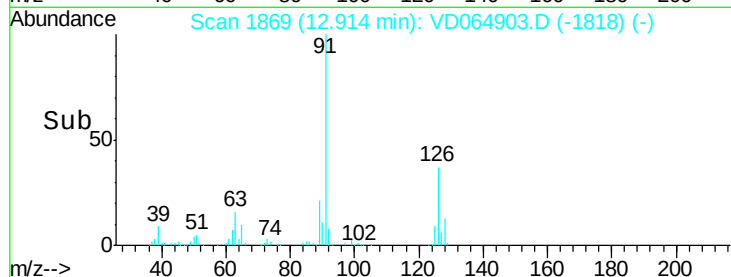
100000

50000

0

12.85 12.90 12.95

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 23.352 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064903.D

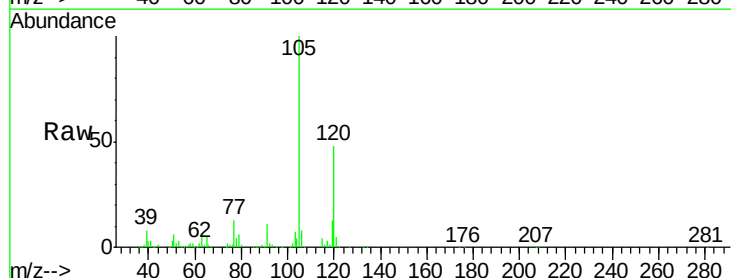
Acq: 21 Jan 2020 10:51

Tgt Ion: 105 Resp: 294546

Ion Ratio Lower Upper

105 100

120 49.4 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VD064584.D (-1868) (-)

Ion 120.00 (119.70 to 120.70): VD064584.D (-1868) (-)

200000

150000

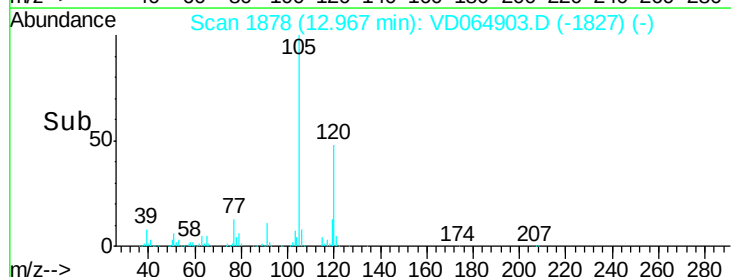
100000

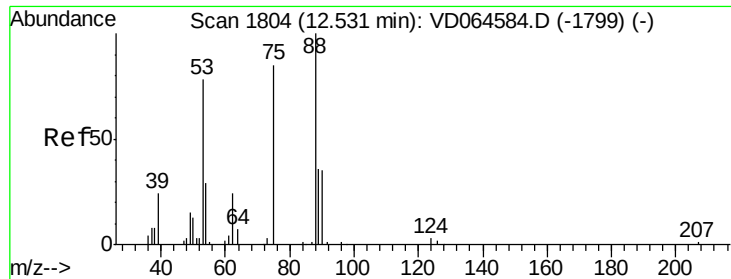
50000

0

12.90 13.00

Time-->





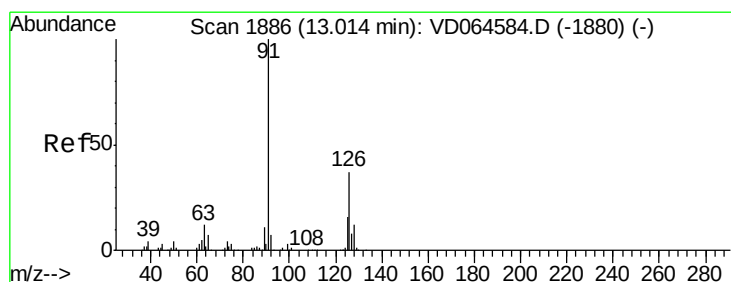
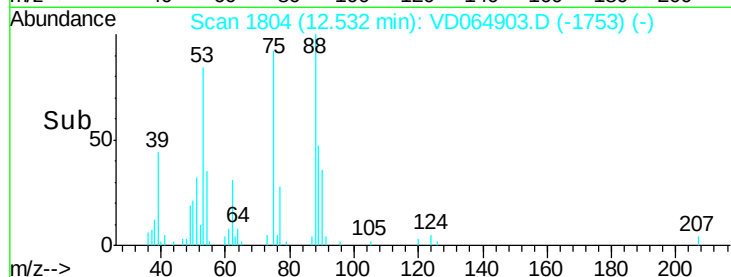
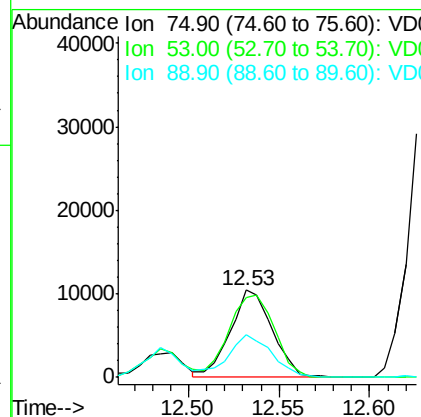
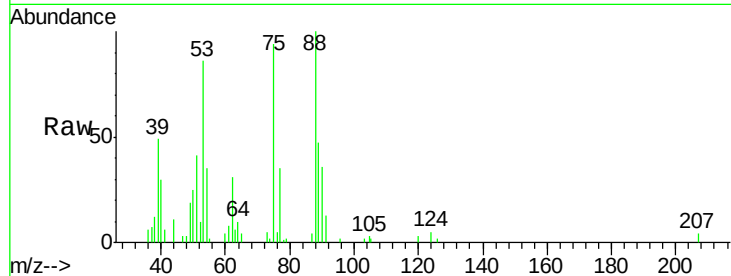
#81
trans-1,4-Dichloro-2-butene
Concen: 20.756 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.7	78.8	118.2
89	49.4	38.3	57.5

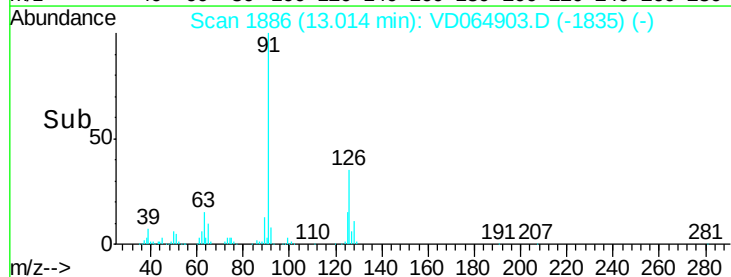
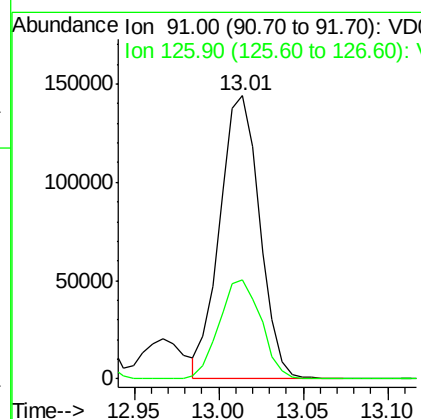
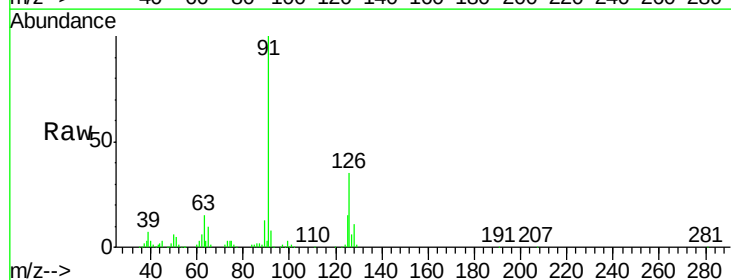
Manual Integrations
APPROVED

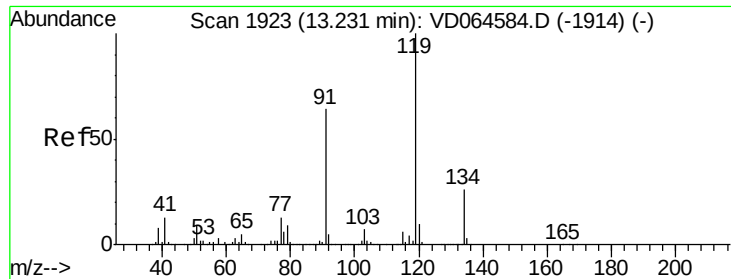
MMDadoda
1/22/2020 10:49:24 AM



#82
4-Chlorotoluene
Concen: 22.694 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.7	17.8	53.5





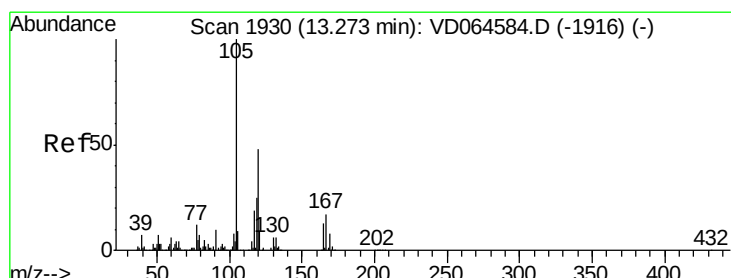
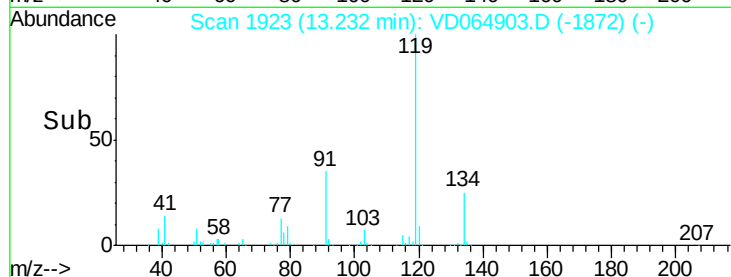
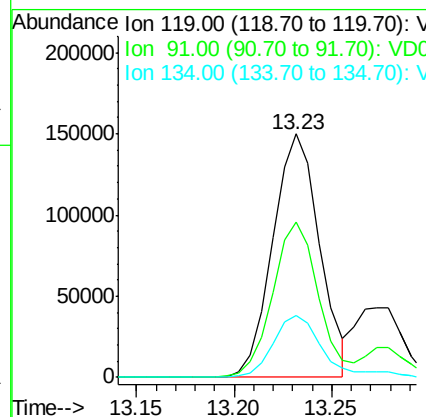
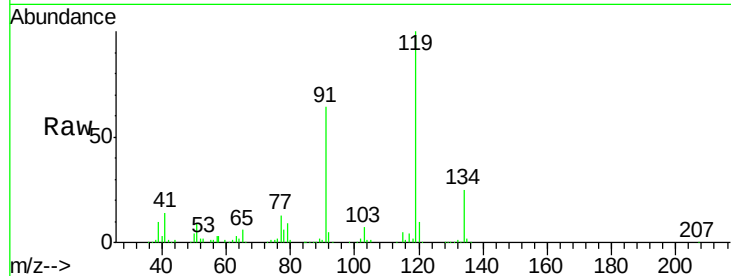
#83
tert-Butylbenzene
Concen: 22.723 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.7	30.8	92.4
134	27.2	12.8	38.3

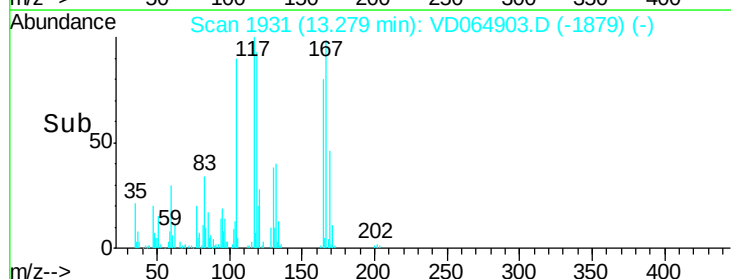
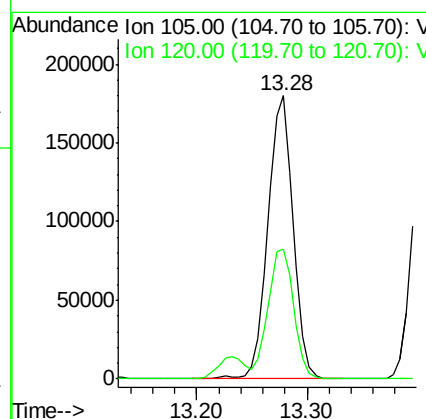
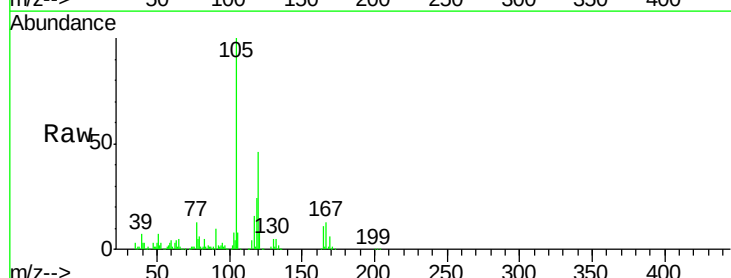
Manual Integrations
APPROVED

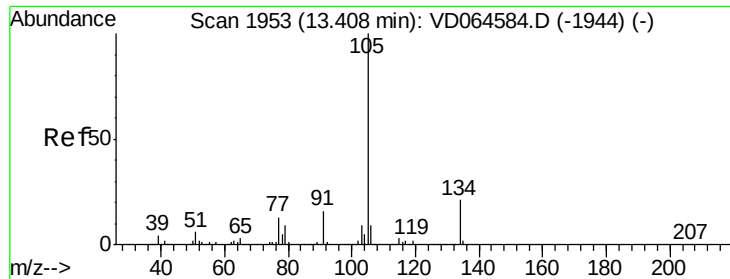
MMDadoda
1/22/2020 10:49:24 AM



#84
1,2,4-Trimethylbenzene
Concen: 22.920 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.8	71.2





#85

sec-Butylbenzene

Concen: 23.407 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion:105 Resp: 351425

Ion Ratio Lower Upper

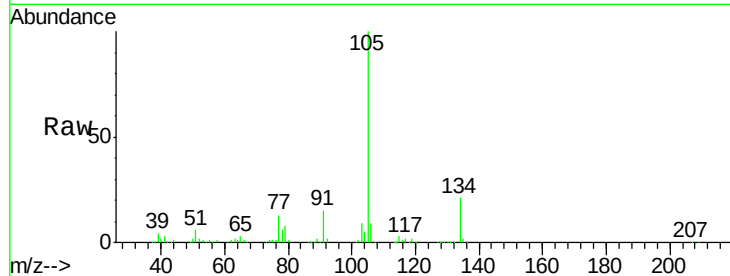
105 100

134 21.5 10.6 31.8

Manual Integrations
APPROVED

MMDadoda

1/22/2020 10:49:24 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

100000

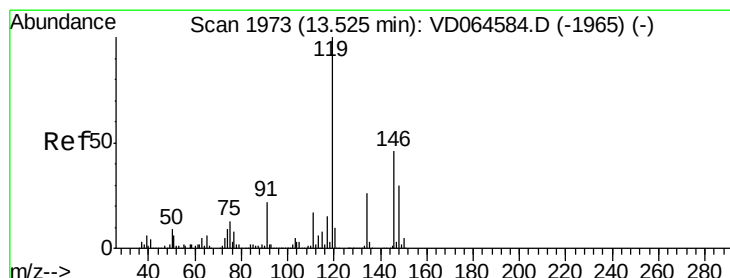
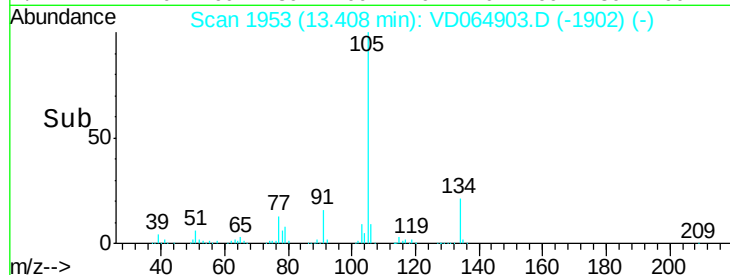
50000

0

13.40 13.41

13.50

Time-->



#86

p-Isopropyltoluene

Concen: 22.671 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064903.D

Acq: 21 Jan 2020 10:51

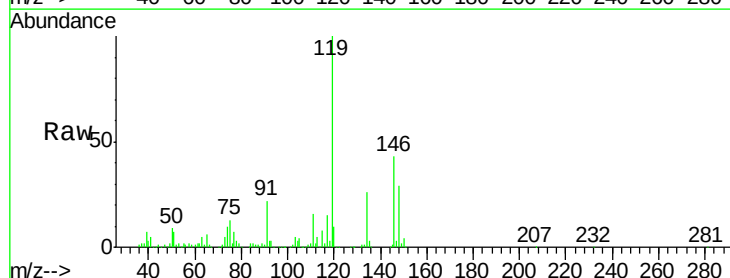
Tgt Ion:119 Resp: 325459

Ion Ratio Lower Upper

119 100

134 26.6 13.4 40.1

91 22.9 11.2 33.6



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

300000

250000

200000

150000

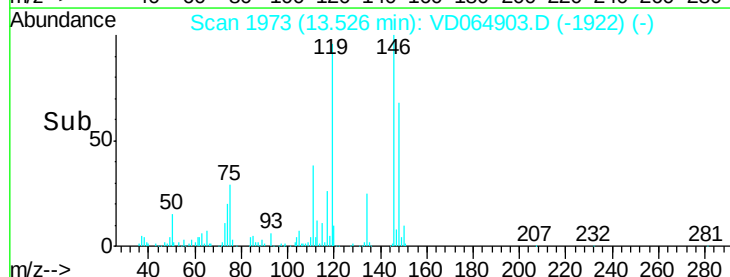
100000

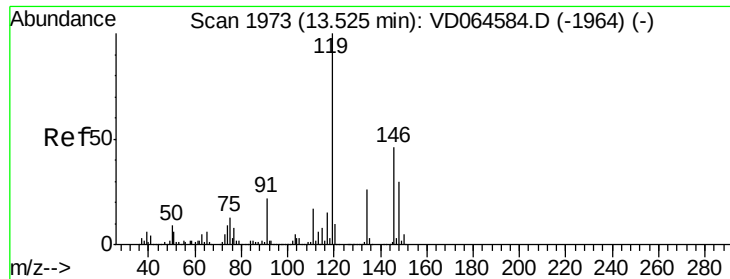
50000

0

13.45 13.50 13.53 13.60

Time-->





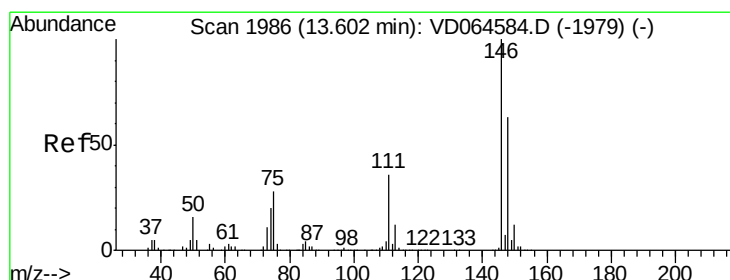
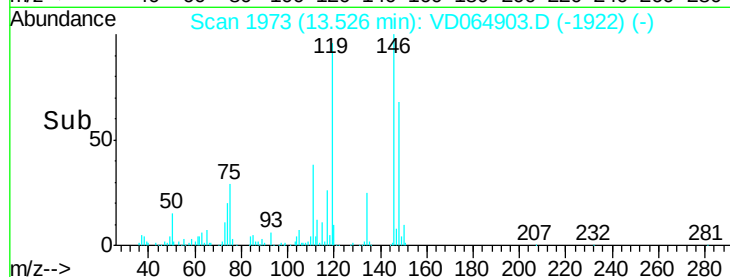
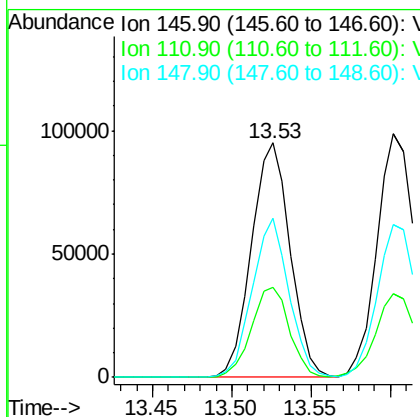
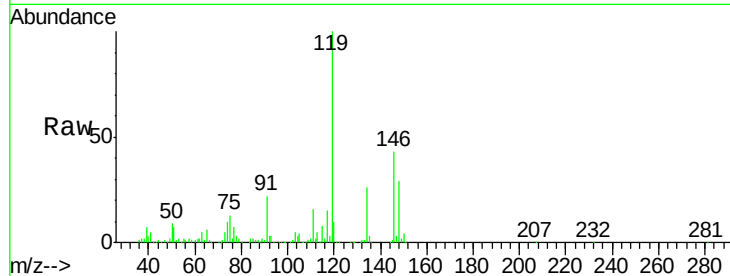
#87
 1,3-Dichlorobenzene
 Concen: 22.466 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.8	56.4
148	64.3	32.5	97.5

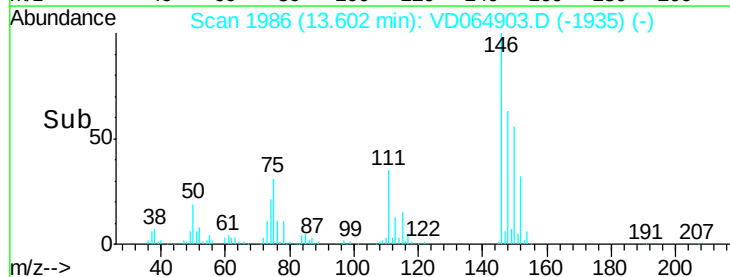
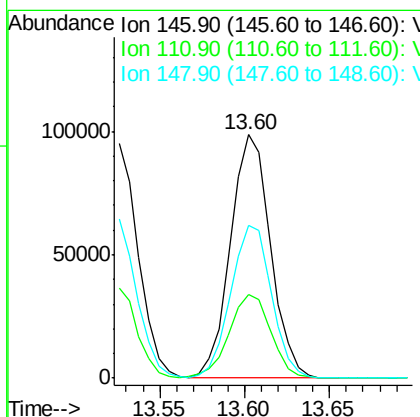
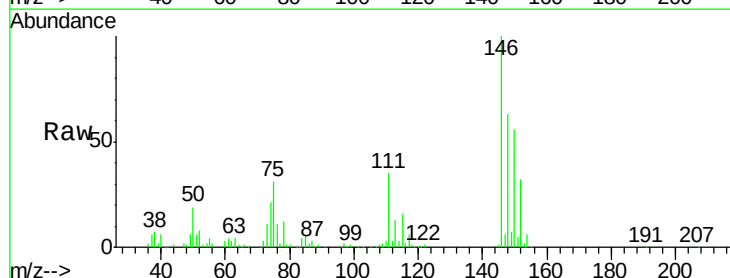
Manual Integrations
 APPROVED

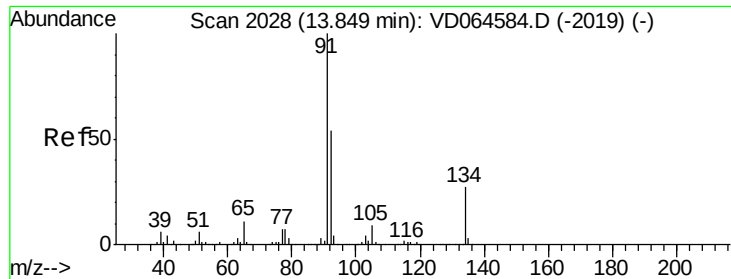
MMDadoda
 1/22/2020 10:49:24 AM



#88
 1,4-Dichlorobenzene
 Concen: 22.996 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.9	18.1	54.1
148	64.1	32.3	96.9





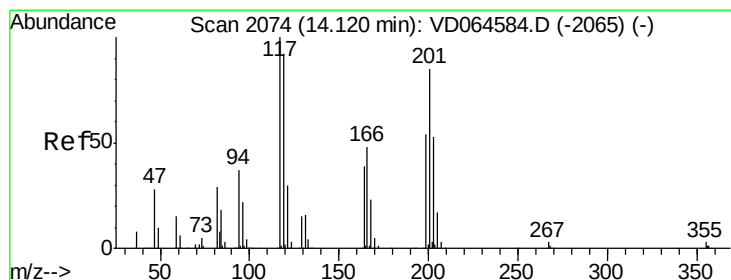
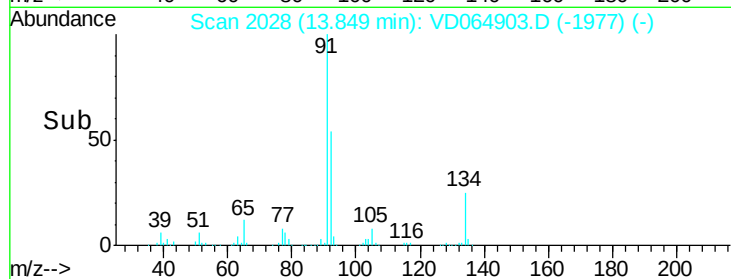
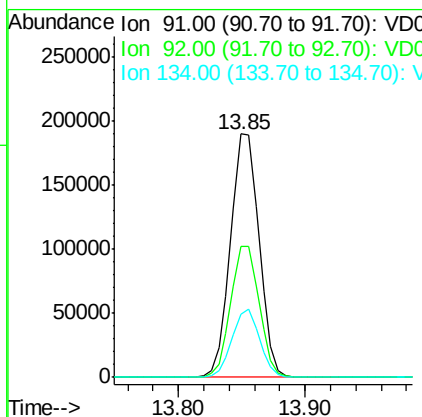
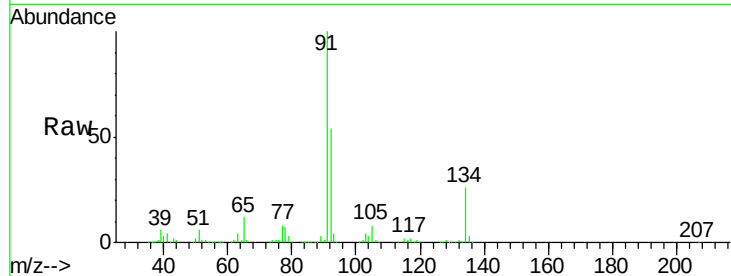
#89
n-Butylbenzene
Concen: 22.979 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.8	80.4
134	27.2	14.0	41.9

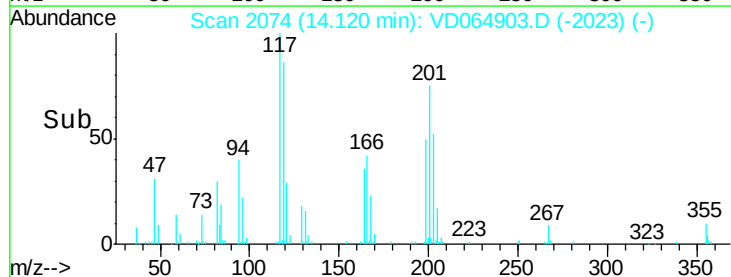
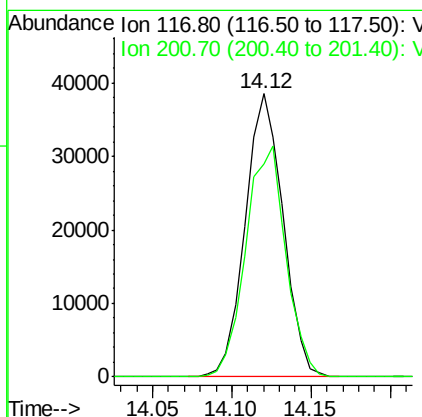
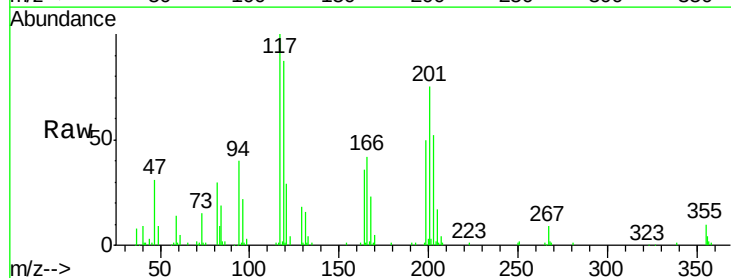
Manual Integrations
APPROVED

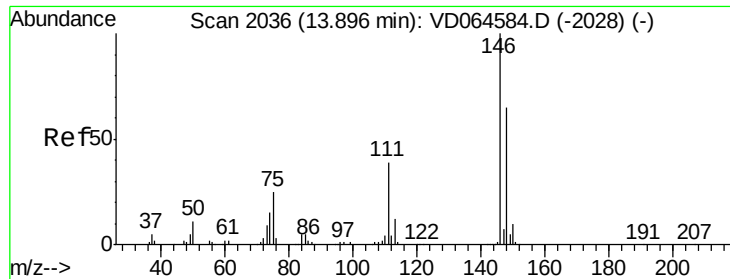
MMDadoda
1/22/2020 10:49:24 AM



#90
Hexachloroethane
Concen: 23.277 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Lower	Upper
117	100		
201	86.5	44.0	131.8





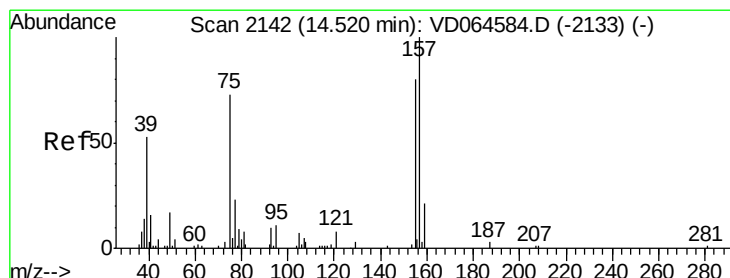
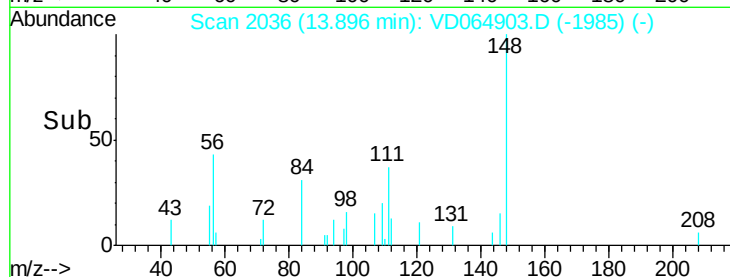
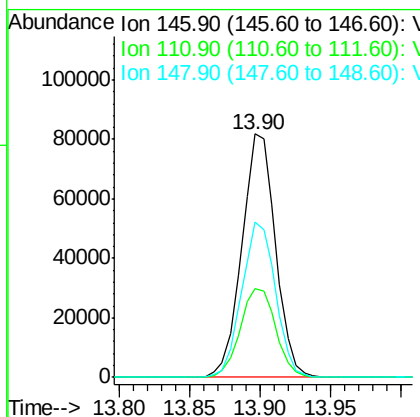
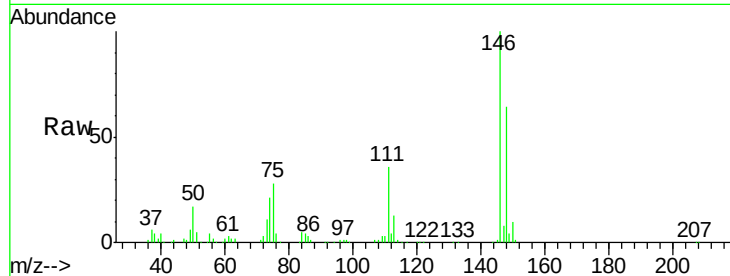
#91
 1,2-Dichlorobenzene
 Concen: 22.289 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	136695		
111	38.5	19.3	57.9	
148	64.1	31.9	95.5	

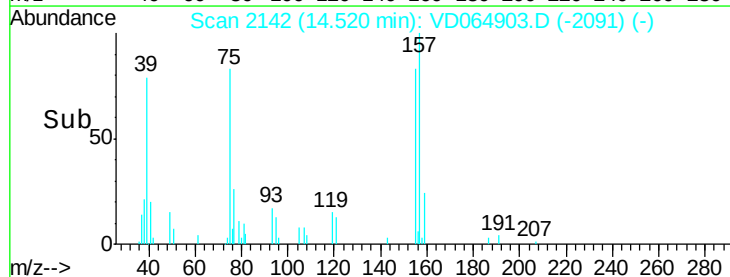
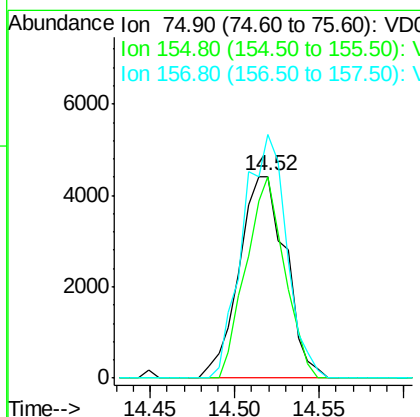
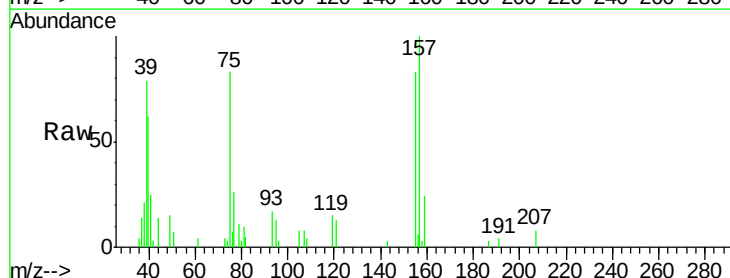
Manual Integrations
 APPROVED

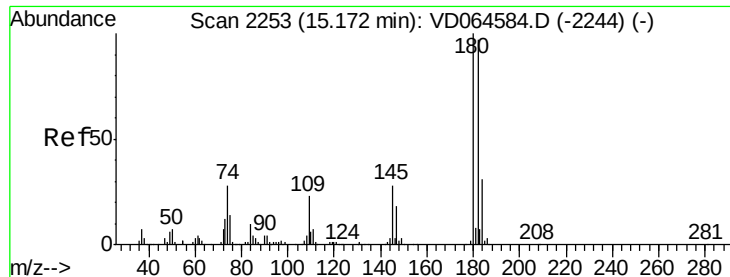
MMDadoda
 1/22/2020 10:49:24 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.758 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8508		
155	82.1	48.0	144.0	
157	112.4	64.1	192.3	





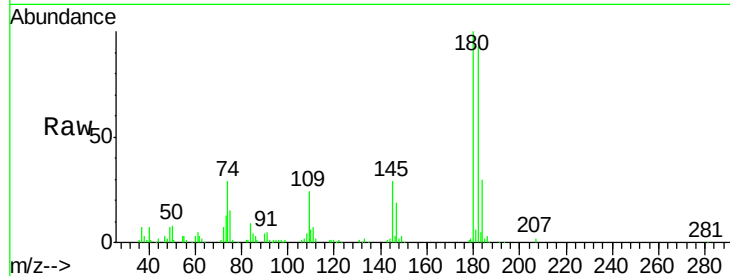
#93
 1,2,4-Trichlorobenzene
 Concen: 21.223 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

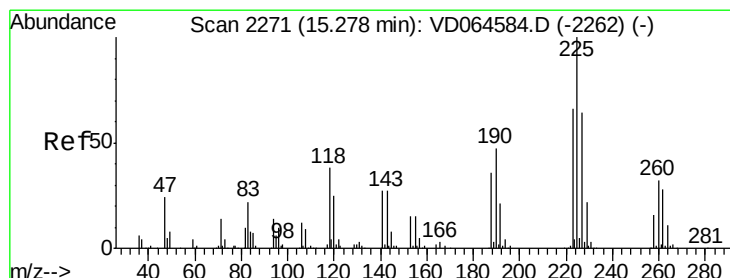
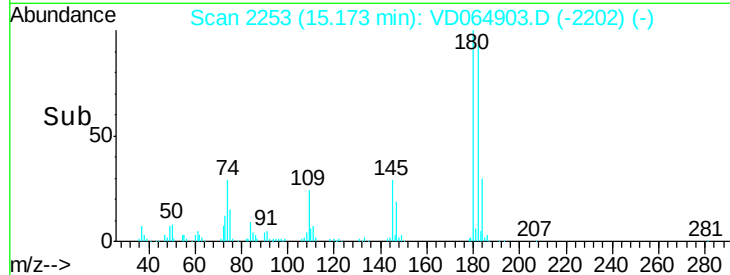
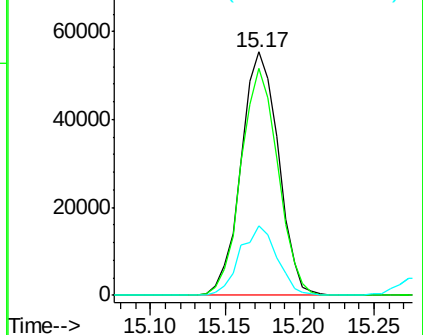
Tot Ion	Ratio	Resp	Lower	Upper
180	100	95840		
182	92.2	48.0	144.2	
145	28.3	13.8	41.4	

Manual Integrations
 APPROVED

MMDadoda
 1/22/2020 10:49:24 AM

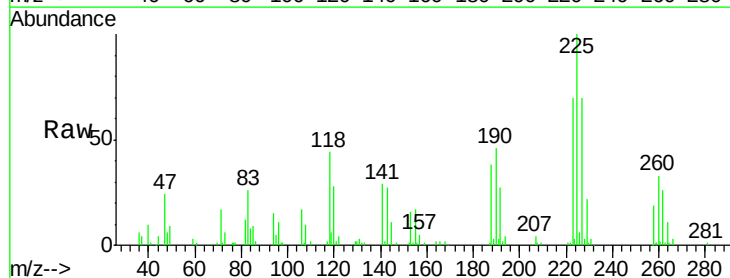


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

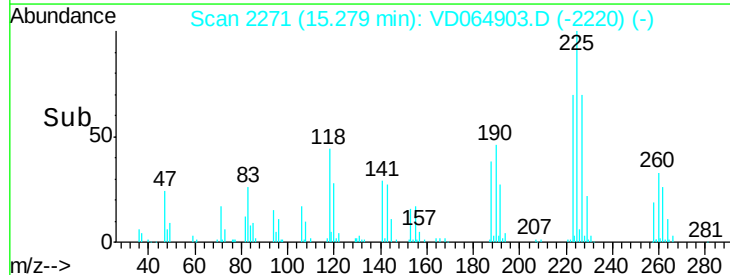
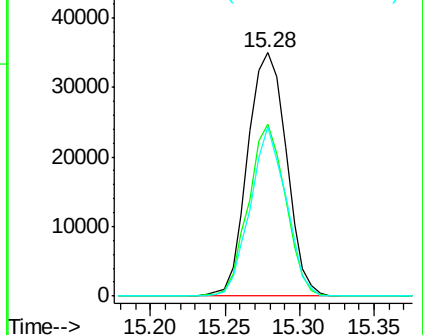


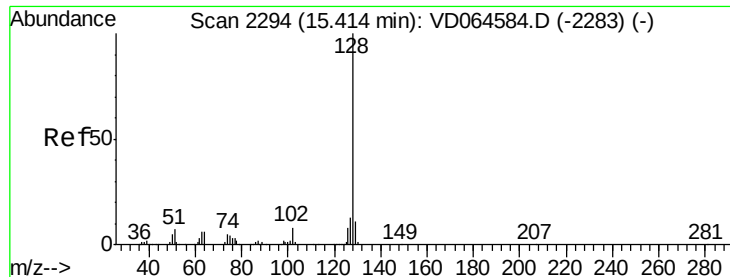
#94
 Hexachlorobutadiene
 Concen: 22.114 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064903.D
 Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	62840		
223	67.4	31.1	93.2	
227	63.9	30.9	92.7	



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





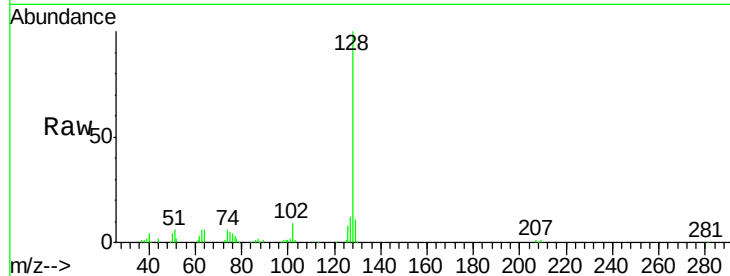
#95
Naphthalene
Concen: 18.994 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

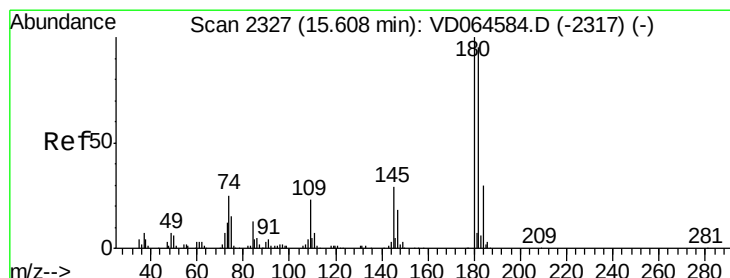
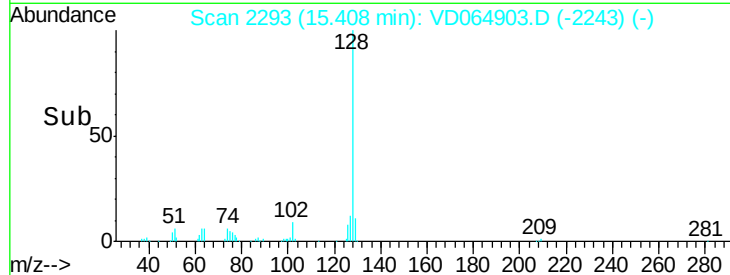
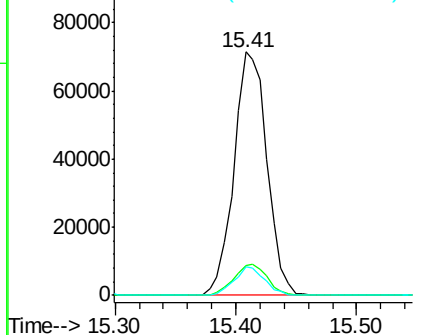
Tot Ion	Ratio	Resp	Lower	Upper
128	100	135695		
127	13.0		10.3	15.5
129	10.6		8.5	12.7

Manual Integrations
APPROVED

MMDadoda
1/22/2020 10:49:24 AM

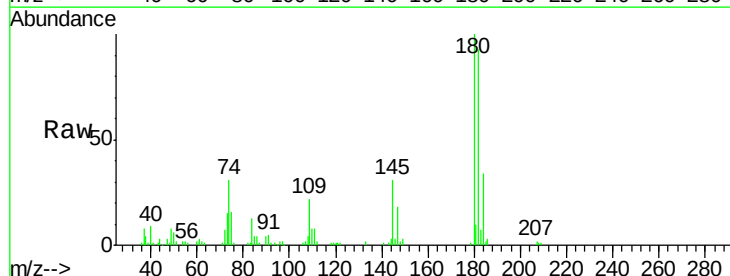


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 20.475 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD064903.D
Acq: 21 Jan 2020 10:51

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	78932		
182	94.5		47.9	143.7
145	30.3		14.9	44.7



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

