

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD083118\
 Data File : VD059931.D
 Acq On : 31 Aug 2018 13:03
 Operator : JC/SY
 Sample : VD0831SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

Manual Integrations
 APPROVED

apatel
 9/4/2018 10:49:26 AM

Quant Time: Aug 31 14:47:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 03:03:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.37	168	1182683	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	7.42	114	1621628	50.00	ug/l	-0.03
63) Chlorobenzene-d5	11.27	117	1357806	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.36	152	734548	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.76	65	494480	49.61	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	99.22%	
35) Dibromofluoromethane	6.30	113	637948	50.18	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	100.36%	
50) Toluene-d8	9.43	98	1744823	49.45	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	98.90%	
62) 4-Bromofluorobenzene	12.42	95	698224	48.72	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.56	85	173042	16.37	ug/l	99
3) Chloromethane	1.73	50	165116	17.24	ug/l	95
4) Vinyl Chloride	1.82	62	128901	17.16	ug/l	93
5) Bromomethane	2.10	94	11242	8.67	ug/l #	76
6) Chloroethane	2.21	64	32030	11.77	ug/l	93
7) Trichlorofluoromethane	2.47	101	156003	17.96	ug/l	96
8) Diethyl Ether	2.79	74	37573	19.28	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.05	101	110159	20.70	ug/l	98
10) Methyl Iodide	3.21	142	79053	16.45	ug/l	98
11) Tert butyl alcohol	3.94	59	84557	111.17	ug/l	97
12) 1,1-Dichloroethene	3.03	96	81992	19.80	ug/l	92
13) Acrolein	2.95	56	22536	68.31	ug/l	91
14) Allyl chloride	3.49	41	192420	20.54	ug/l	98
15) Acrylonitrile	4.04	53	295061	103.59	ug/l	97
16) Acetone	3.13	43	192470	105.98	ug/l	99
17) Carbon Disulfide	3.27	76	198586	15.45	ug/l	99
18) Methyl Acetate	3.52	43	76198	20.10	ug/l	100
19) Methyl tert-butyl Ether	4.08	73	470479	20.08	ug/l	100
20) Methylene Chloride	3.68	84	294715	22.25	ug/l	97
21) trans-1,2-Dichloroethene	4.05	96	206347	18.08	ug/l	97
22) Diisopropyl ether	4.82	45	962231	20.14	ug/l	97
23) Vinyl Acetate	4.77	43	2801532	104.87	ug/l	100
24) 1,1-Dichloroethane	4.71	63	408925	19.81	ug/l	99
25) 2-Butanone	5.59	43	500175	92.99	ug/l	98
26) 2,2-Dichloropropane	5.55	77	347852	20.16	ug/l	98
27) cis-1,2-Dichloroethene	5.56	96	253891	20.32	ug/l	98
28) Bromochloromethane	5.89	49	203659	20.58	ug/l	95
29) Tetrahydrofuran	5.92	42	272100	106.26	ug/l	99
30) Chloroform	6.07	83	432767	20.63	ug/l	100
31) Cyclohexane	6.33	56	325004	17.12	ug/l	98
32) 1,1,1-Trichloroethane	6.26	97	344750	19.36	ug/l	98
36) 1,1-Dichloropropene	6.49	75	279952	19.04	ug/l	99
37) Ethyl Acetate	5.67	43	237485	20.76	ug/l	100
38) Carbon Tetrachloride	6.46	117	288967	19.48	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD083118\
 Data File : VD059931.D
 Acq On : 31 Aug 2018 13:03
 Operator : JC/SY
 Sample : VD0831SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0831SBS01

Manual Integrations
 APPROVED

apatel
 9/4/2018 10:49:26 AM

Quant Time: Aug 31 14:47:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 03:03:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.02	83	293516	18.48	ug/l	98
40) Benzene	6.77	78	759390	19.87	ug/l	100
41) Methacrylonitrile	5.89	41	119340m	20.71	ug/l	
42) 1,2-Dichloroethane	6.87	62	242905	19.80	ug/l	98
43) Isopropyl Acetate	8.33	43	300682	20.20	ug/l #	100
44) Trichloroethene	7.71	130	223961	19.90	ug/l	93
45) 1,2-Dichloropropane	8.08	63	223457	20.91	ug/l	98
46) Dibromomethane	8.19	93	140408	20.44	ug/l	96
47) Bromodichloromethane	8.47	83	315301	20.27	ug/l	98
48) Methyl methacrylate	8.22	41	184002	21.21	ug/l	97
49) 1,4-Dioxane	8.21	88	34220	441.83	ug/l	90
51) 4-Methyl-2-Pentanone	9.33	43	1033746	93.17	ug/l	97
52) Toluene	9.53	92	497826	20.31	ug/l	98
53) t-1,3-Dichloropropene	9.90	75	296077	20.58	ug/l	97
54) cis-1,3-Dichloropropene	9.08	75	339263	20.34	ug/l	96
55) 1,1,2-Trichloroethane	10.16	97	186635	20.83	ug/l	96
56) Ethyl methacrylate	10.01	69	210777	20.38	ug/l	99
57) 1,3-Dichloropropane	10.37	76	278715	21.49	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.90	63	573643	115.65	ug/l	98
59) 2-Hexanone	10.48	43	796173	97.29	ug/l	98
60) Dibromochloromethane	10.63	129	230852	20.50	ug/l	97
61) 1,2-Dibromoethane	10.74	107	184739	20.39	ug/l	99
64) Tetrachloroethene	10.23	164	209740	19.98	ug/l	98
65) Chlorobenzene	11.30	112	570824	21.16	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.41	131	213527	21.66	ug/l	98
67) Ethyl Benzene	11.42	91	997290	21.97	ug/l	99
68) m/p-Xylenes	11.56	106	705288	42.67	ug/l	99
69) o-Xylene	11.92	106	341453	21.12	ug/l	91
70) Styrene	11.94	104	594477	21.24	ug/l	96
71) Bromoform	12.11	173	170806	20.03	ug/l #	99
73) Isopropylbenzene	12.27	105	954542	20.36	ug/l	99
74) N-amyl acetate	12.13	43	407749	19.86	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.55	83	227619	20.99	ug/l	99
76) 1,2,3-Trichloropropane	12.59	75	233174	20.42	ug/l	99
77) Bromobenzene	12.53	156	275510	21.19	ug/l	86
78) n-propylbenzene	12.63	91	1194271	20.11	ug/l	100
79) 2-Chlorotoluene	12.70	91	684097	20.37	ug/l	95
80) 1,3,5-Trimethylbenzene	12.79	105	760060	20.39	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.34	75	66005	18.59	ug/l	100
82) 4-Chlorotoluene	12.80	91	777176	20.29	ug/l	94
83) tert-Butylbenzene	13.04	119	852630	20.08	ug/l	92
84) 1,2,4-Trimethylbenzene	13.09	105	786772	20.25	ug/l	99
85) sec-Butylbenzene	13.21	105	1045813	20.94	ug/l	99
86) p-Isopropyltoluene	13.33	119	837661	20.62	ug/l	95
87) 1,3-Dichlorobenzene	13.30	146	488084	21.03	ug/l	98
88) 1,4-Dichlorobenzene	13.38	146	482851	20.85	ug/l	97
89) n-Butylbenzene	13.64	91	877392	19.95	ug/l	96
90) Hexachloroethane	13.85	117	199238	18.27	ug/l	88
91) 1,2-Dichlorobenzene	13.66	146	442586	22.43	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.22	75	32965	19.77	ug/l	65

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD083118\
Data File : VD059931.D
Acq On : 31 Aug 2018 13:03
Operator : JC/SY
Sample : VD0831SBSD01
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBSD01

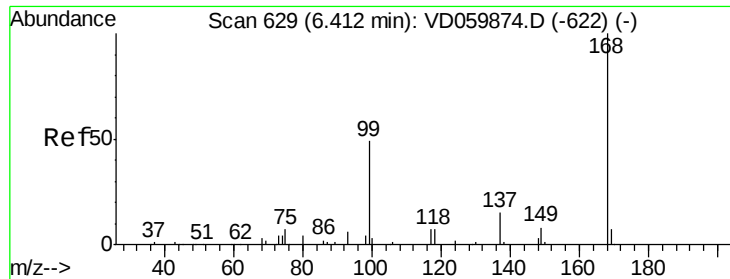
Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM

Quant Time: Aug 31 14:47:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 03:03:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	353954	20.95	ug/l	98
94) Hexachlorobutadiene	14.88	225	235885	21.30	ug/l	99
95) Naphthalene	14.96	128	532739	20.63	ug/l	99
96) 1,2,3-Trichlorobenzene	15.11	180	303829	21.02	ug/l	99

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



#1

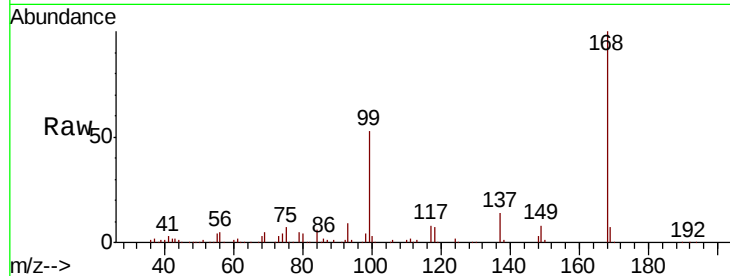
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 6.37 min Scan# 625
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBSD01

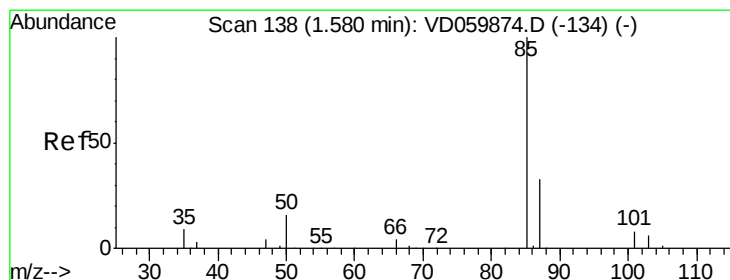
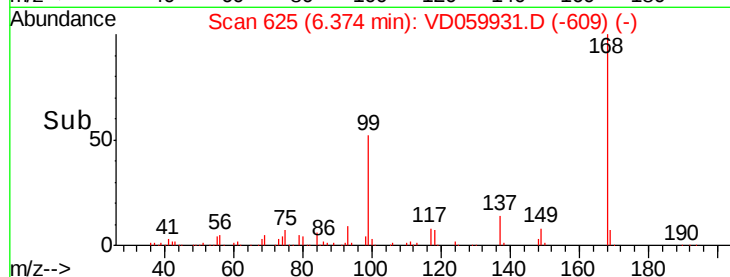
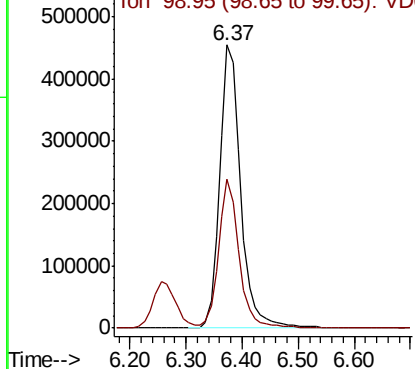
Tot Ion:168 Resp: 1182683
Ion Ratio Lower Upper
168 100
99 52.7 42.2 63.2

Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



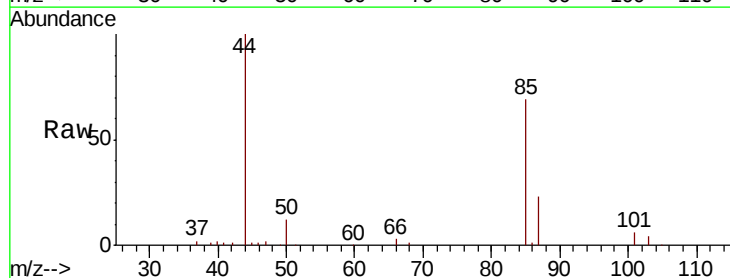
Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.95 (98.65 to 99.65): VDC



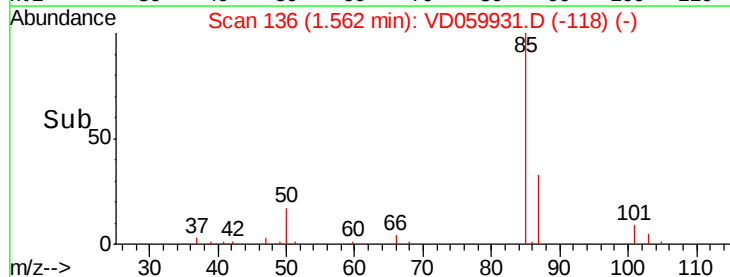
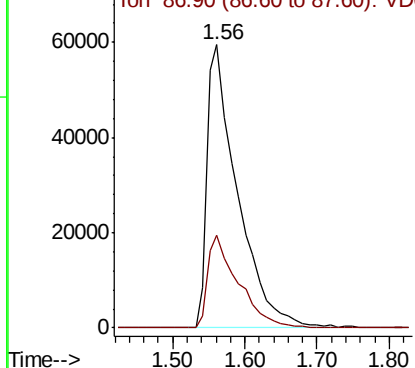
#2

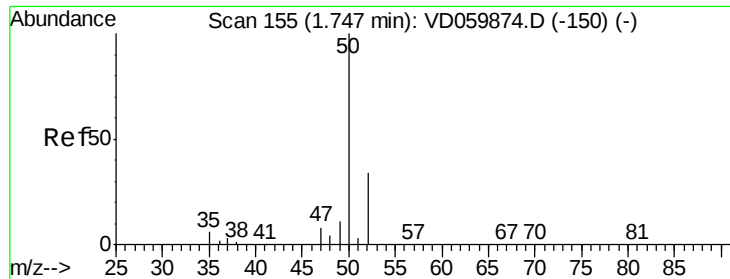
Dichlorodifluoromethane
Concen: 16.37 ug/l
RT: 1.56 min Scan# 136
Delta R.T. -0.02 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion: 85 Resp: 173042
Ion Ratio Lower Upper
85 100
87 32.7 16.8 50.3



Abundance Ion 84.95 (84.65 to 85.65): VDC
Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 17.24 ug/l

RT: 1.73 min Scan# 153

Delta R.T. -0.02 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

Tot Ion: 50 Resp: 165116

Ion Ratio Lower Upper

50 100

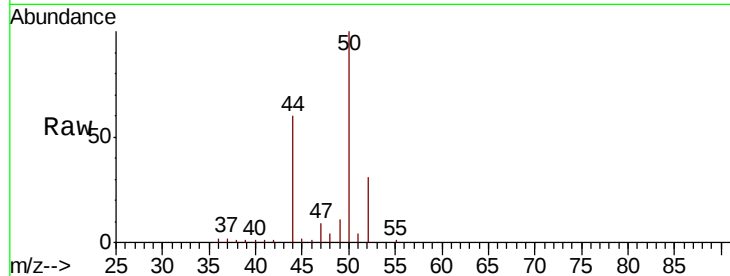
52 30.9 27.0 40.6

Manual Integrations

APPROVED

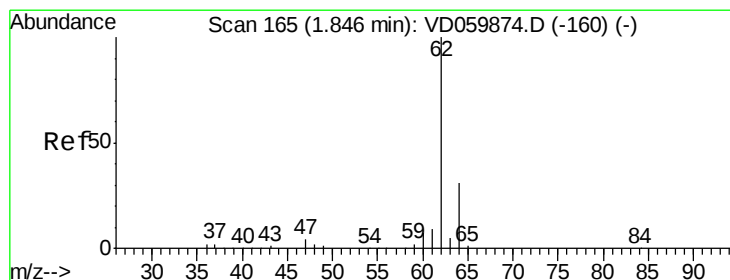
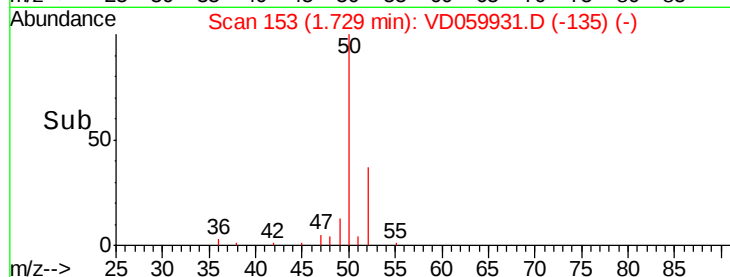
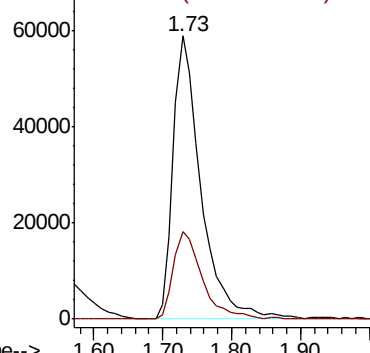
apatel

9/4/2018 10:49:26 AM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 17.16 ug/l

RT: 1.82 min Scan# 162

Delta R.T. -0.03 min

Lab File: VD059931.D

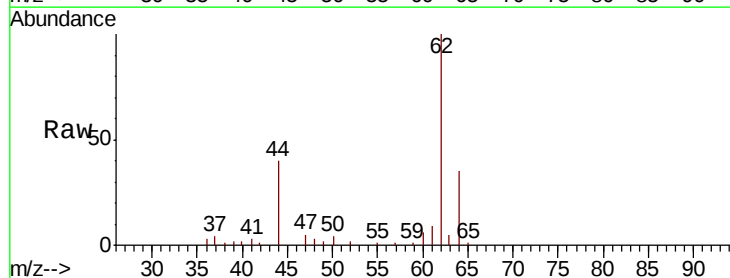
Acq: 31 Aug 2018 13:03

Tgt Ion: 62 Resp: 128901

Ion Ratio Lower Upper

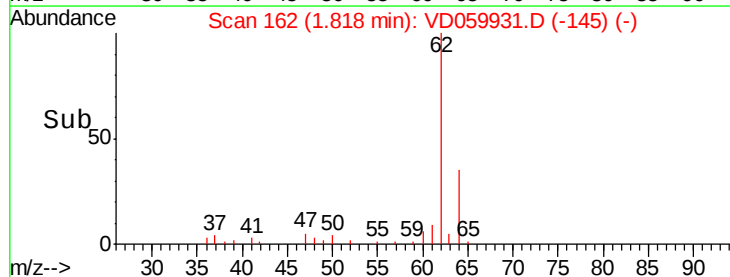
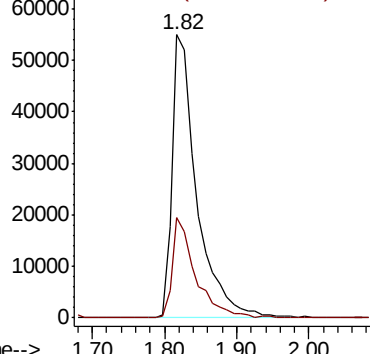
62 100

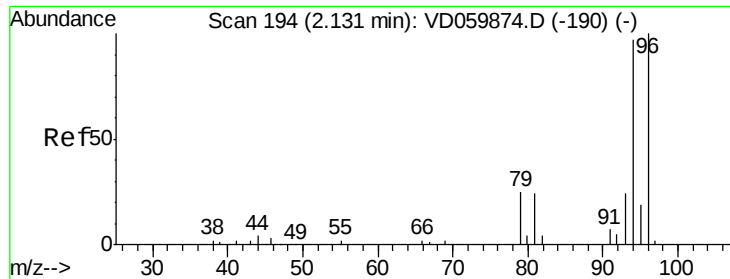
64 35.4 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 8.67 ug/l

RT: 2.10 min Scan# 191

Delta R.T. -0.03 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

Tot Ion: 94 Resp: 11242

Ion Ratio Lower Upper

94 100

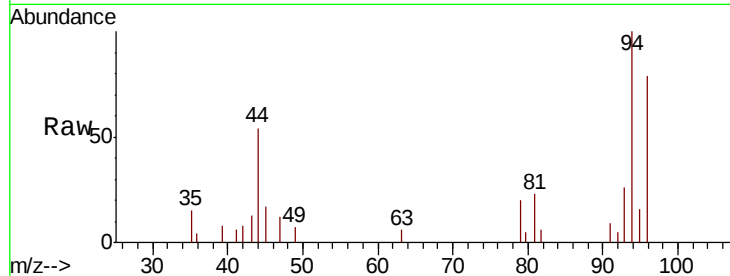
96 78.6 82.4 123.6#

Manual Integrations

APPROVED

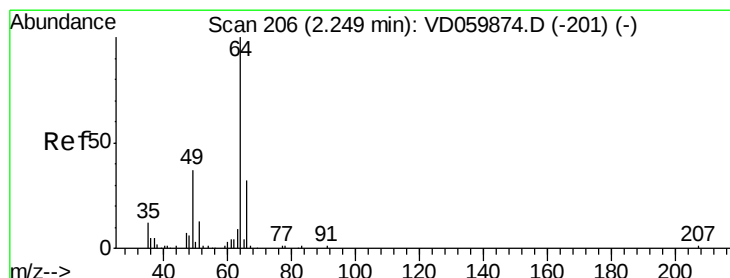
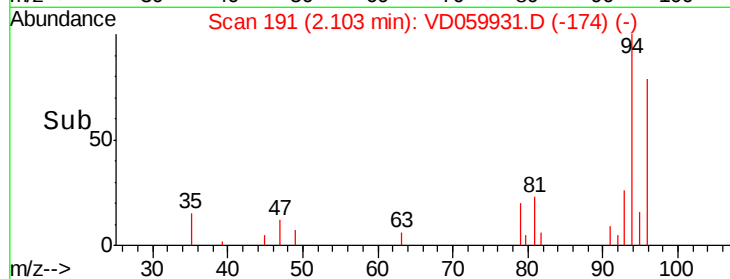
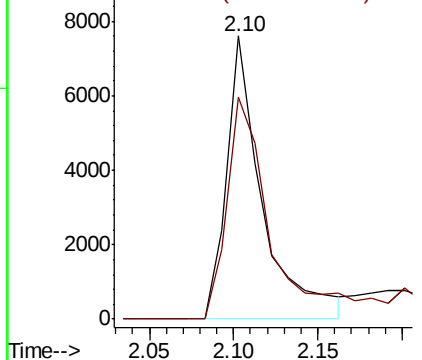
apatel

9/4/2018 10:49:26 AM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 11.77 ug/l

RT: 2.21 min Scan# 202

Delta R.T. -0.04 min

Lab File: VD059931.D

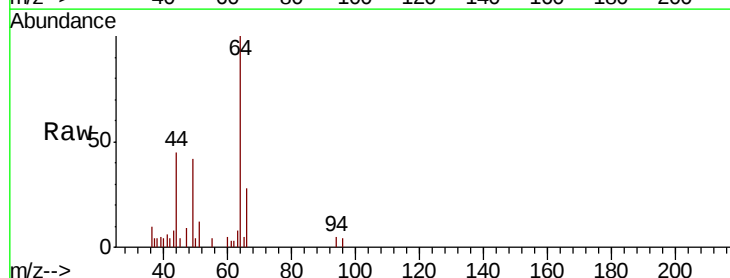
Acq: 31 Aug 2018 13:03

Tgt Ion: 64 Resp: 32030

Ion Ratio Lower Upper

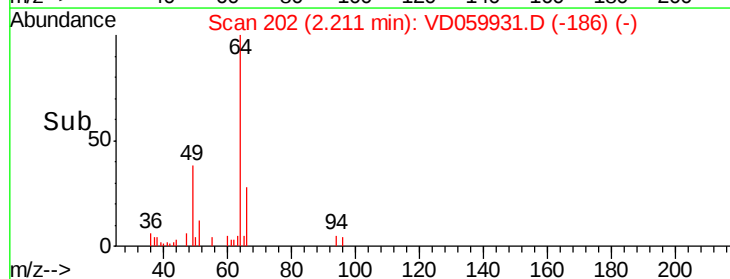
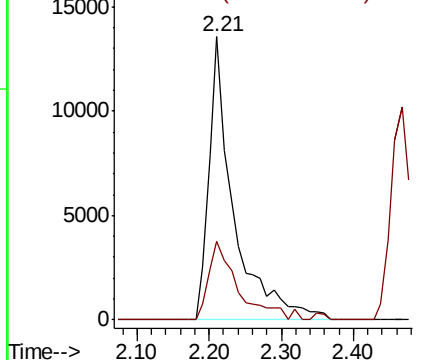
64 100

66 27.8 25.3 37.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 17.96 ug/l

RT: 2.47 min Scan# 228

Delta R.T. -0.04 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

Tot Ion:101 Resp: 156003

Ion Ratio Lower Upper

101 100

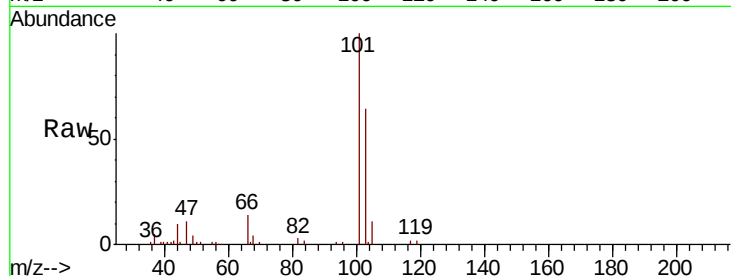
103 64.2 53.7 80.5

Manual Integrations

APPROVED

apatel

9/4/2018 10:49:26 AM



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V

2.47

80000

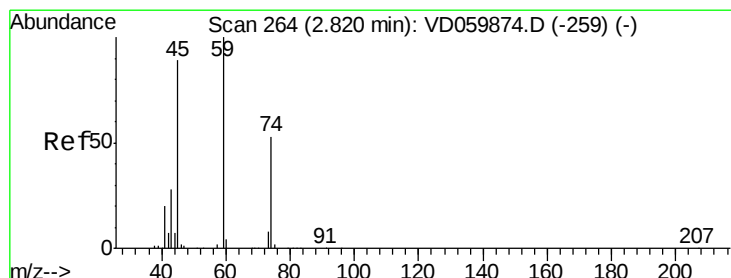
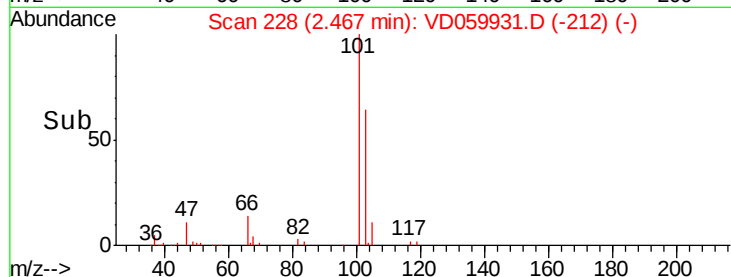
60000

40000

20000

0

Time--> 2.30 2.40 2.50 2.60 2.70



#8

Diethyl Ether

Concen: 19.28 ug/l

RT: 2.79 min Scan# 261

Delta R.T. -0.03 min

Lab File: VD059931.D

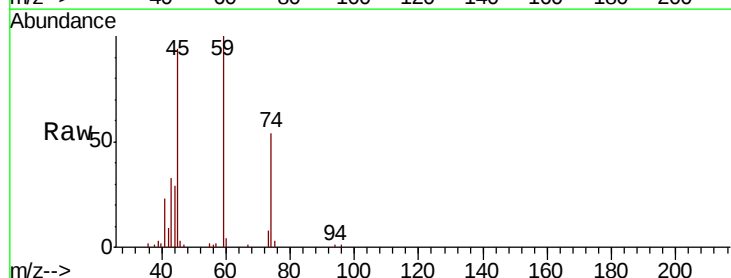
Acq: 31 Aug 2018 13:03

Tgt Ion: 74 Resp: 37573

Ion Ratio Lower Upper

74 100

45 175.9 85.7 257.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

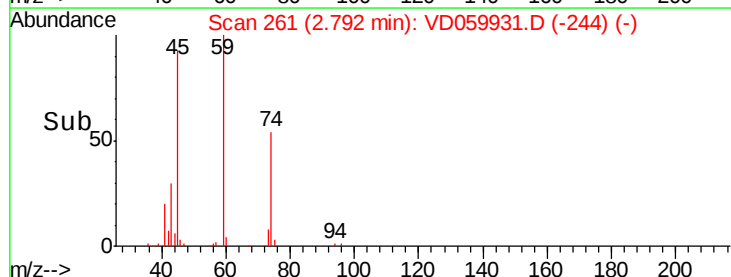
30000

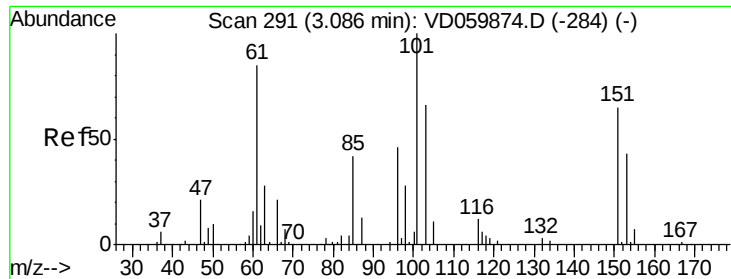
20000

10000

0

Time--> 2.70 2.80 2.90 3.00





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.70 ug/l

RT: 3.05 min Scan# 287

Delta R.T. -0.04 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

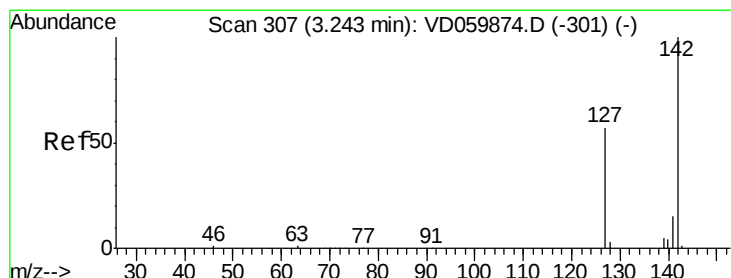
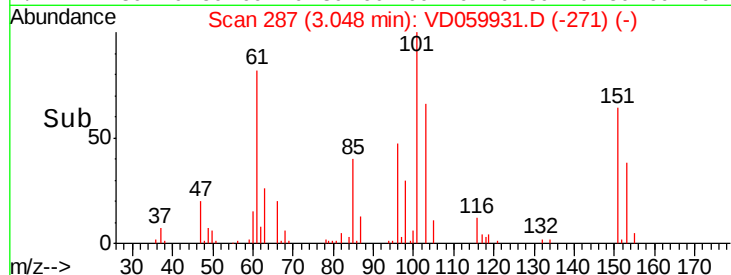
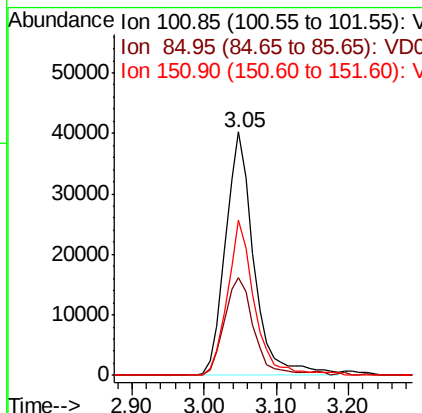
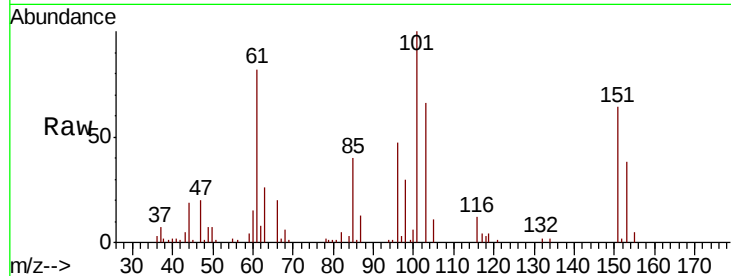
ClientSampleId :

VD0831SBS01

Tot Ion:	101	Resp:	110159
Ion Ratio	Lower	Upper	
101	100		
85	40.0	33.6	50.4
151	64.0	52.0	78.0

Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



#10

Methyl Iodide

Concen: 16.45 ug/l

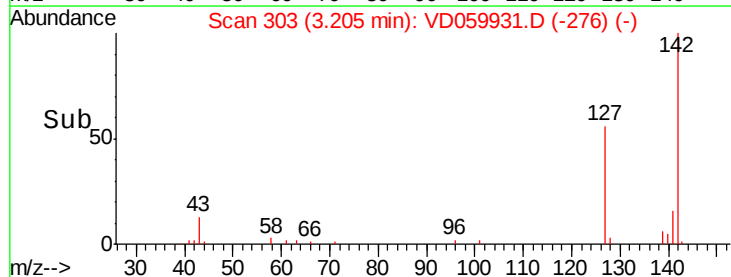
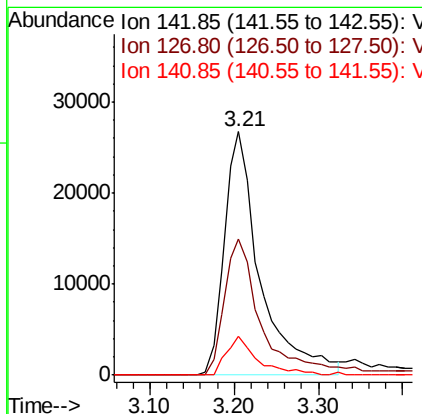
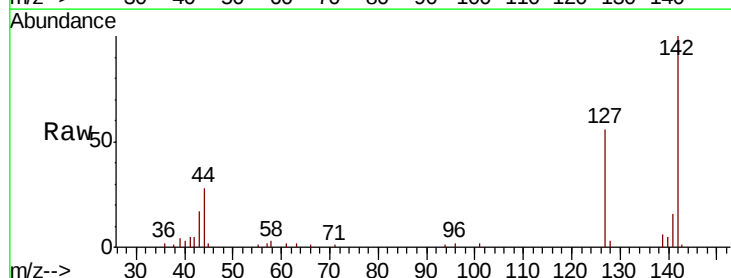
RT: 3.21 min Scan# 303

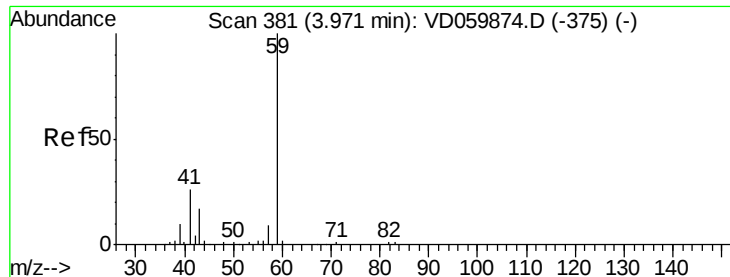
Delta R.T. -0.04 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Tgt Ion:	142	Resp:	79053
Ion Ratio	Lower	Upper	
142	100		
127	55.6	45.8	68.6
141	15.8	11.6	17.4





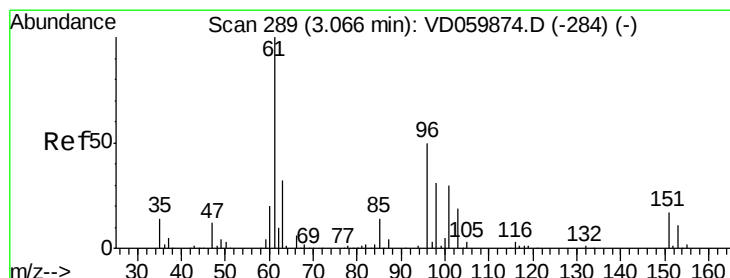
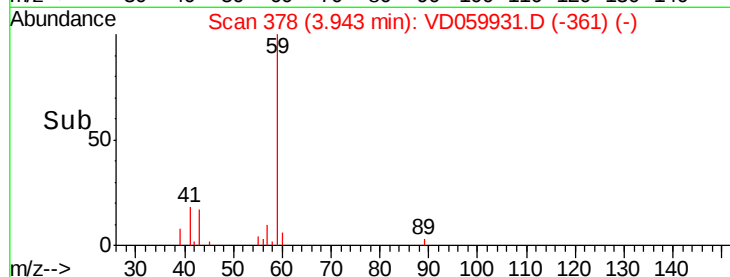
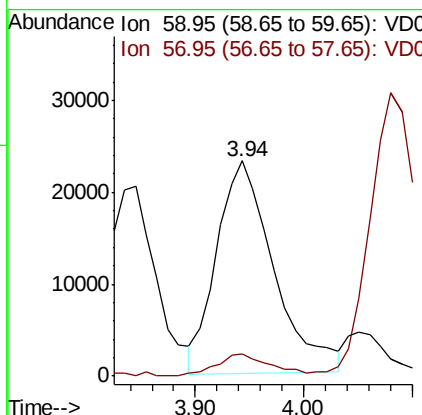
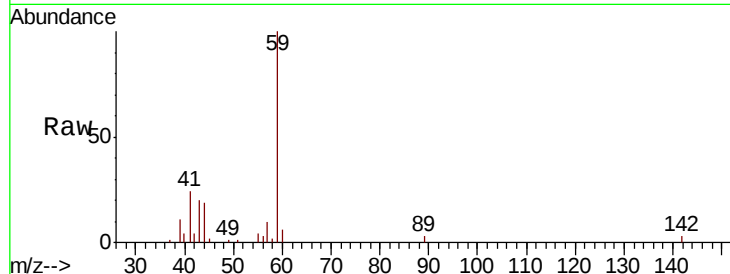
#11
Tert butyl alcohol
Concen: 111.17 ug/l
RT: 3.94 min Scan# 378
Delta R.T. -0.03 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBSD01

Tot Ion: 59 Resp: 84557
Ion Ratio Lower Upper
59 100
57 10.2 7.4 11.0

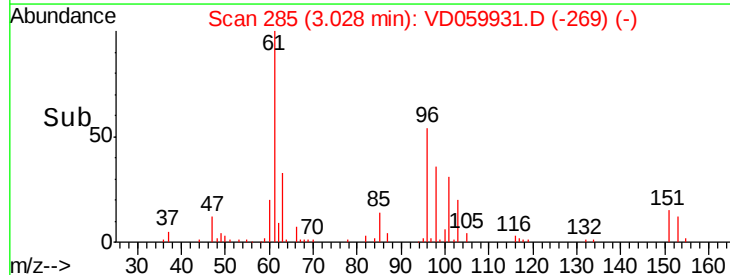
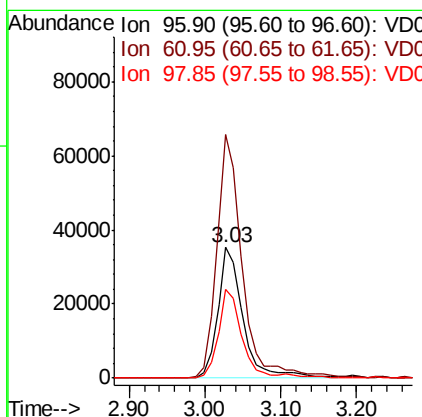
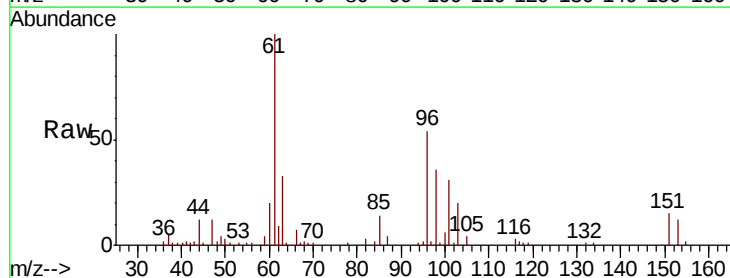
Manual Integrations
APPROVED

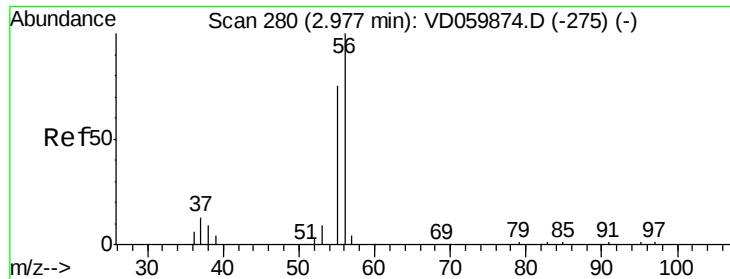
apatel
9/4/2018 10:49:26 AM



#12
1,1-Dichloroethene
Concen: 19.80 ug/l
RT: 3.03 min Scan# 285
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion: 96 Resp: 81992
Ion Ratio Lower Upper
96 100
61 186.7 158.8 238.2
98 67.7 48.7 73.1





#13

Acrolein

Concen: 68.31 ug/l

RT: 2.95 min Scan# 277

Delta R.T. -0.03 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

Tot Ion: 56 Resp: 22536

Ion Ratio Lower Upper

56 100

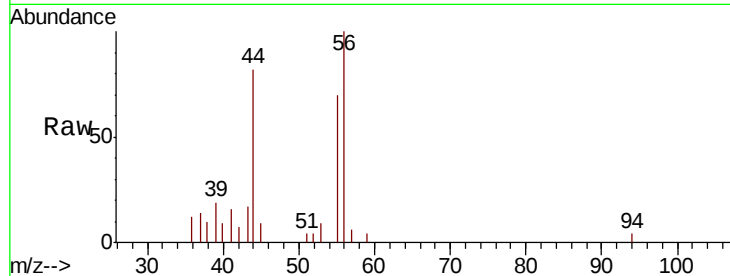
55 69.9 61.9 92.9

Manual Integrations

APPROVED

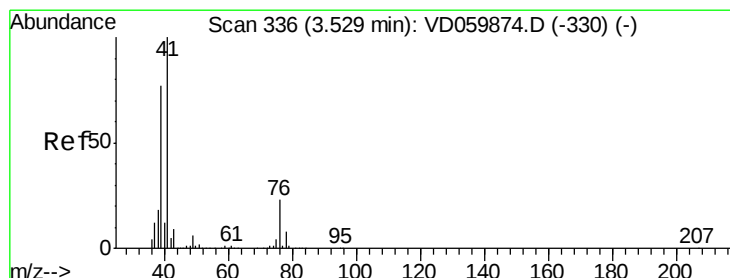
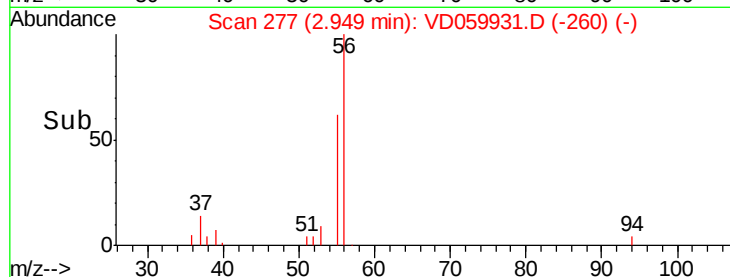
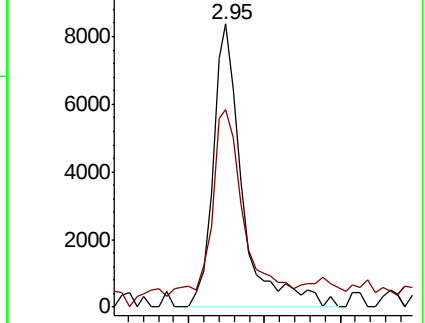
apatel

9/4/2018 10:49:26 AM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 20.54 ug/l

RT: 3.49 min Scan# 332

Delta R.T. -0.04 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

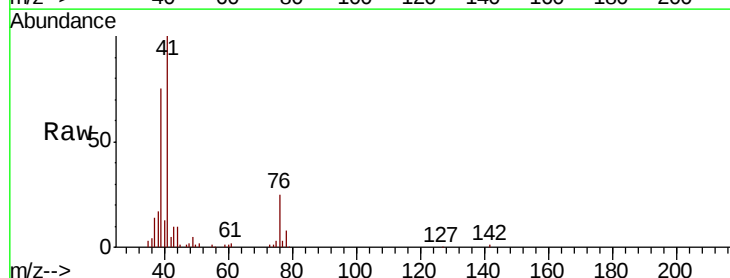
Tgt Ion: 41 Resp: 192420

Ion Ratio Lower Upper

41 100

39 75.1 61.8 92.6

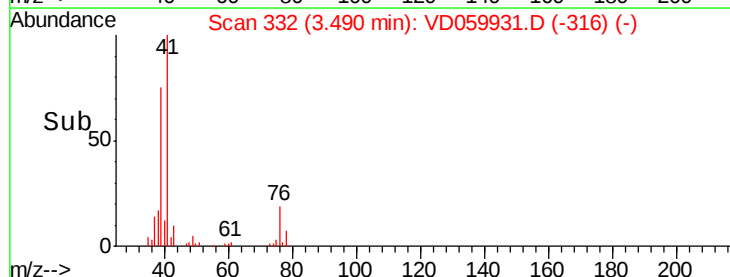
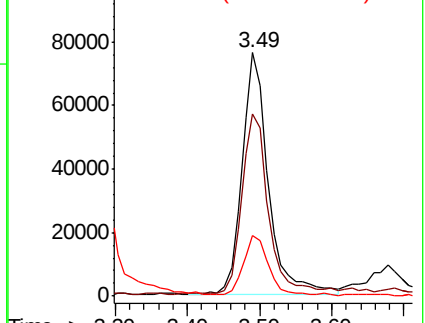
76 25.0 19.4 29.2

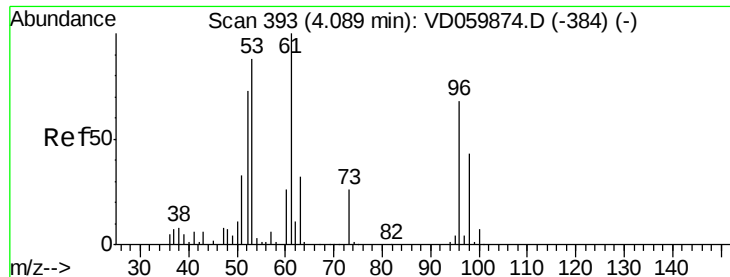


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 103.59 ug/l

RT: 4.04 min Scan# 388

Delta R.T. -0.05 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

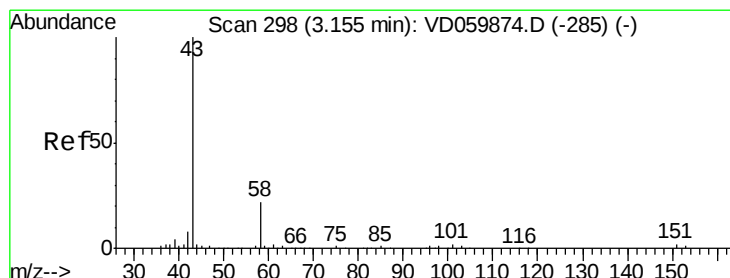
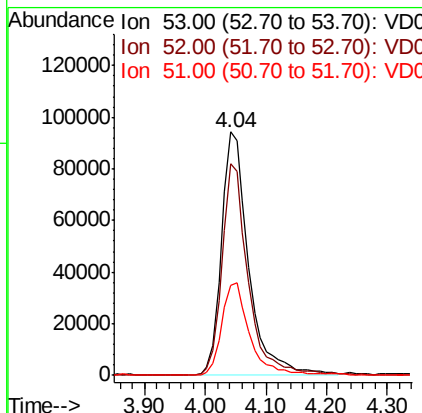
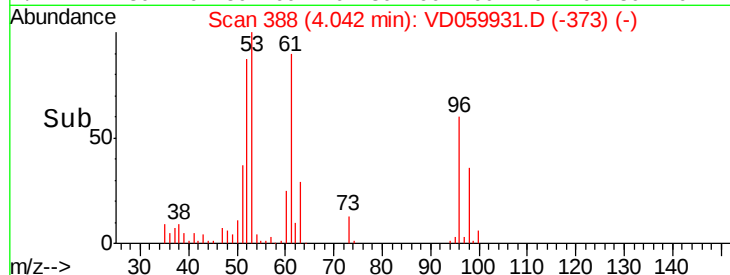
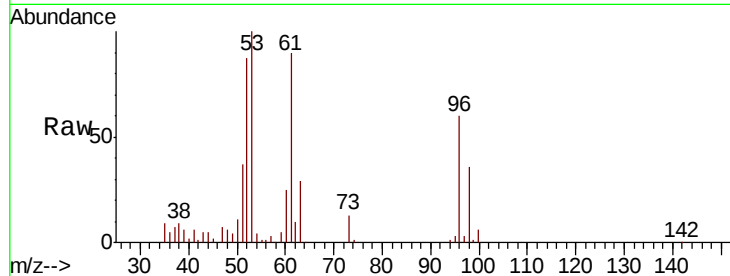
ClientSampleId :

VD0831SBS01

Tot Ion:	53	Resp:	295061
Ion Ratio	Lower	Upper	
53	100		
52	87.0	66.9	100.3
51	37.1	30.3	45.5

Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



#16

Acetone

Concen: 105.98 ug/l

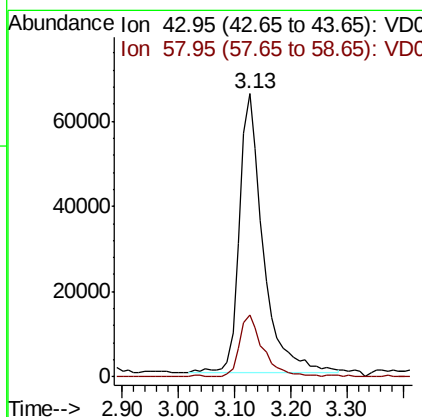
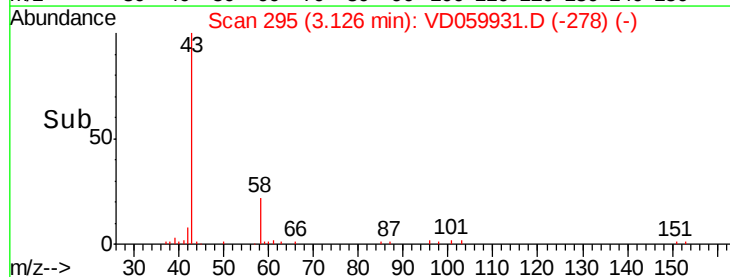
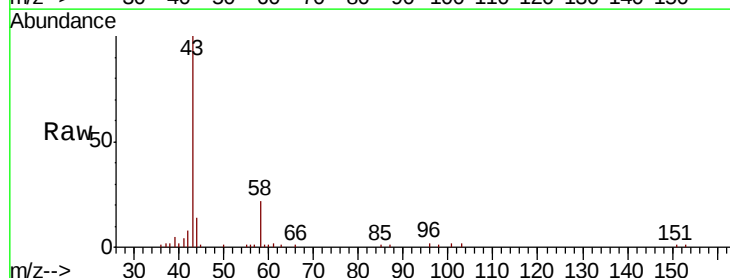
RT: 3.13 min Scan# 295

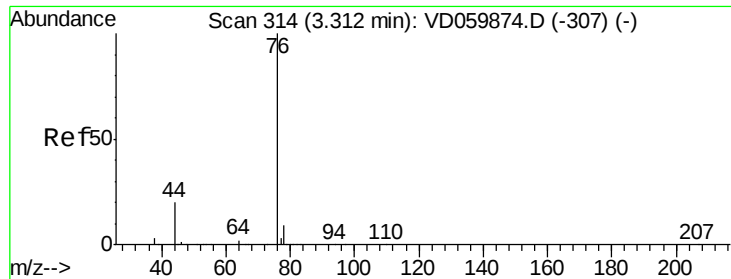
Delta R.T. -0.03 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Tgt Ion:	43	Resp:	192470
Ion Ratio	Lower	Upper	
43	100		
58	21.7	17.6	26.4





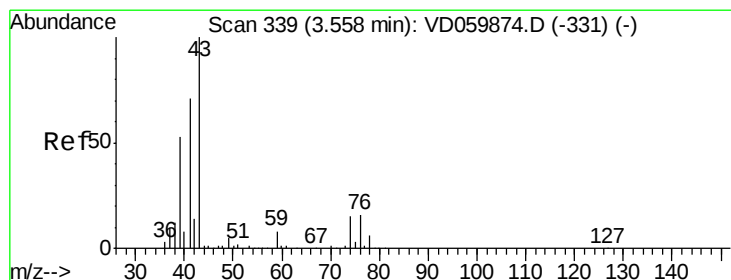
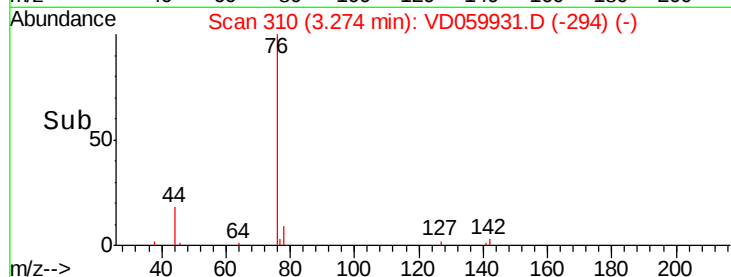
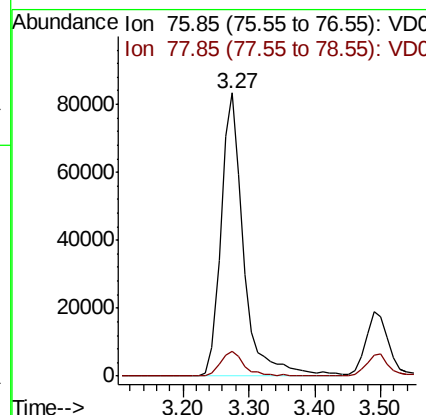
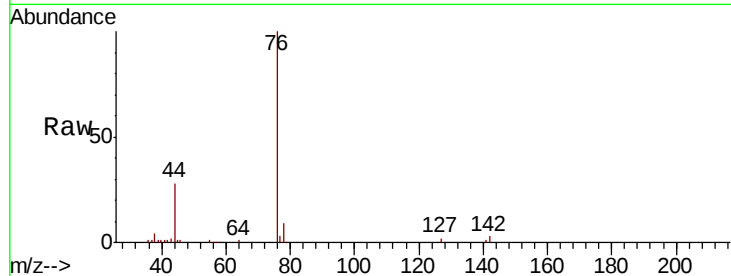
#17
Carbon Disulfide
Concen: 15.45 ug/l
RT: 3.27 min Scan# 310
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.2

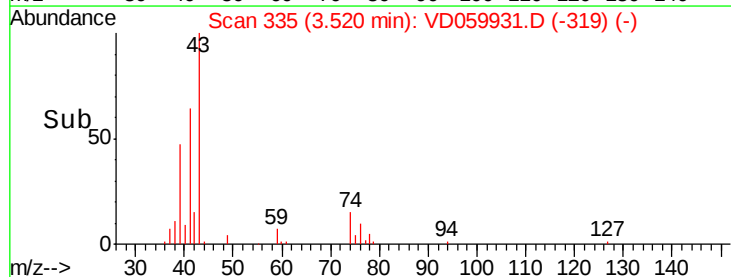
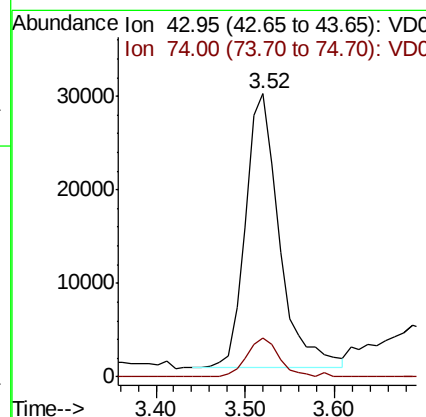
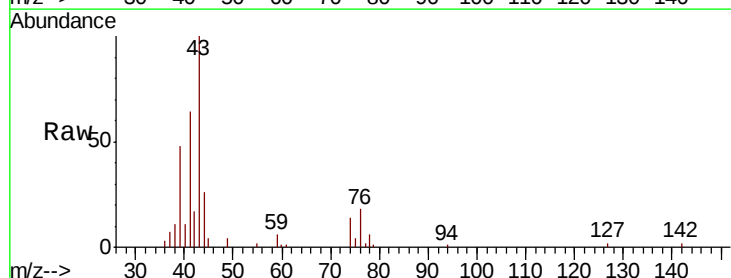
Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



#18
Methyl Acetate
Concen: 20.10 ug/l
RT: 3.52 min Scan# 335
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
43	100		
74	14.0	11.2	16.8





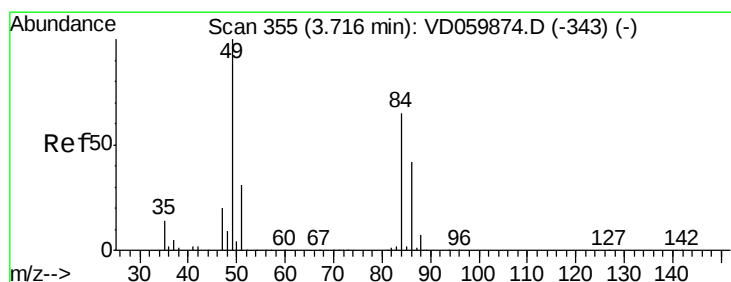
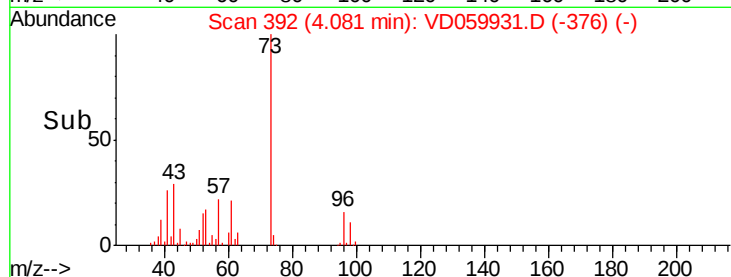
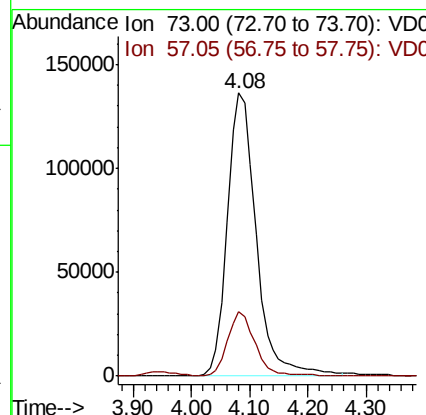
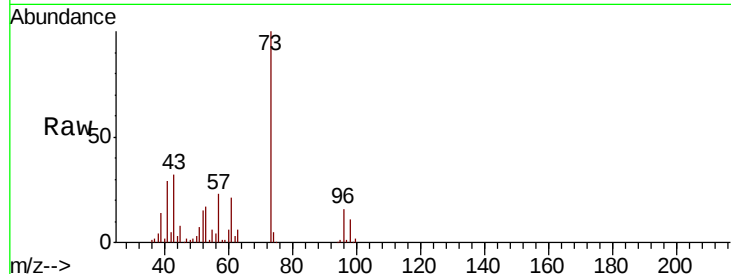
#19
Methyl tert-butyl Ether
Concen: 20.08 ug/l
RT: 4.08 min Scan# 392
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion: 73 Resp: 470479
Ion Ratio Lower Upper
73 100
57 22.6 17.9 26.9

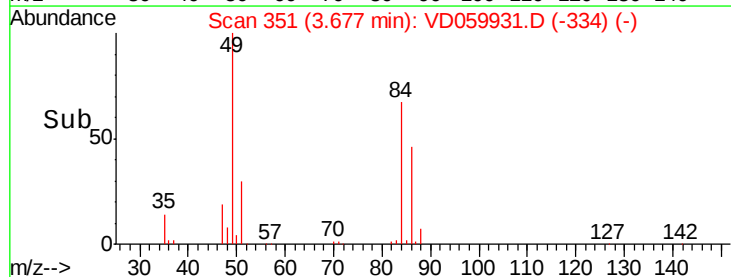
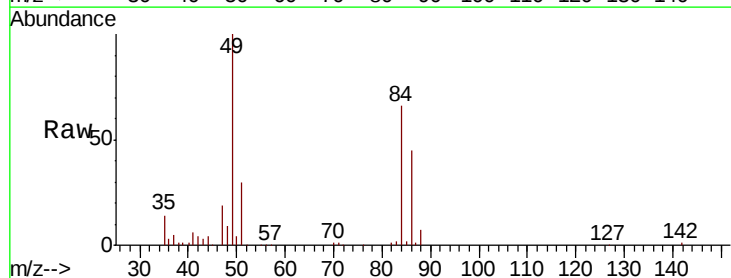
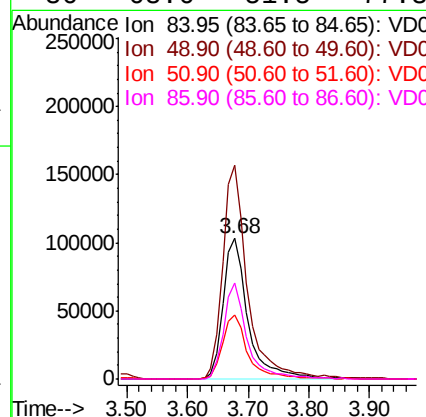
Manual Integrations
APPROVED

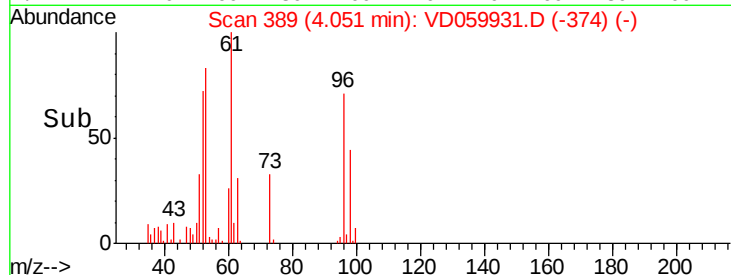
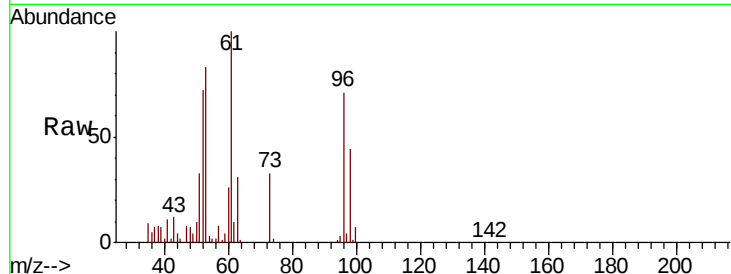
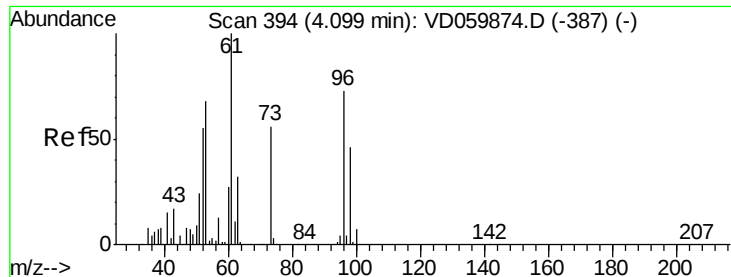
apatel
9/4/2018 10:49:26 AM



#20
Methylene Chloride
Concen: 22.25 ug/l
RT: 3.68 min Scan# 351
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion: 84 Resp: 294715
Ion Ratio Lower Upper
84 100
49 151.9 122.6 183.8
51 45.6 38.4 57.6
86 68.6 51.5 77.3





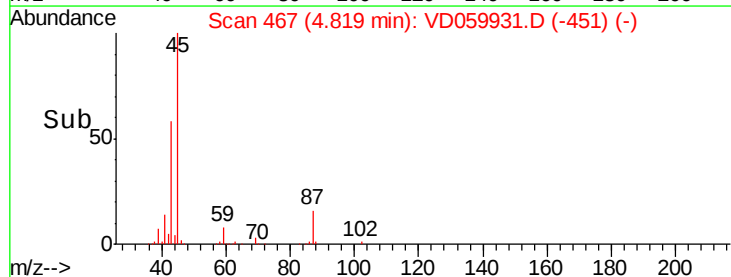
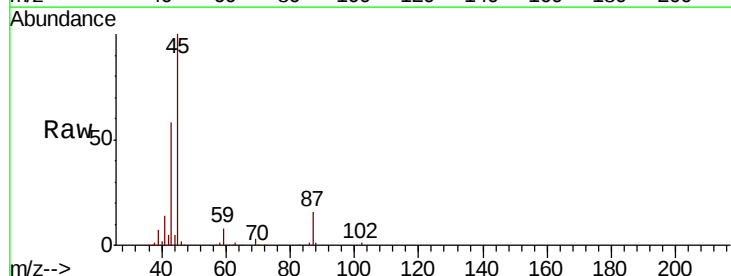
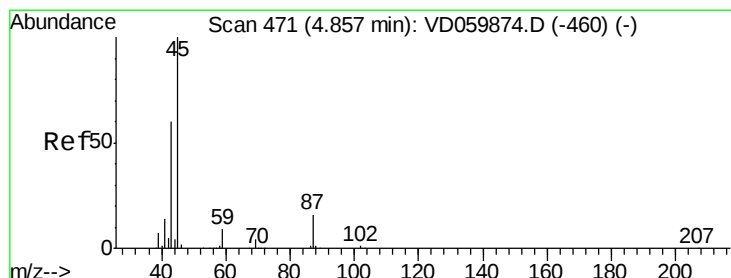
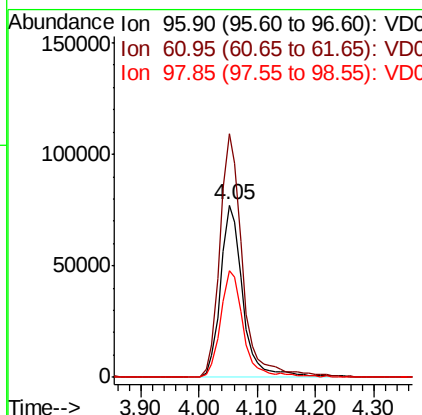
#21
trans-1,2-Dichloroethene
Concen: 18.08 ug/l
RT: 4.05 min Scan# 389
Delta R.T. -0.05 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.5	110.2	165.4
98	61.9	50.9	76.3

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

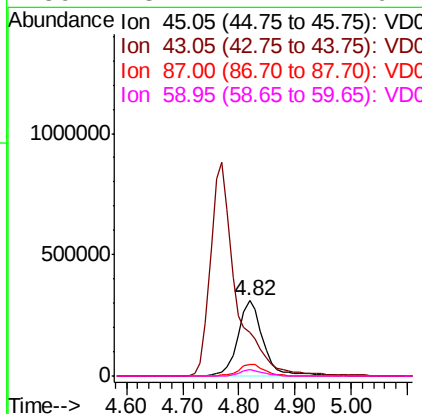
Manual Integrations
APPROVED

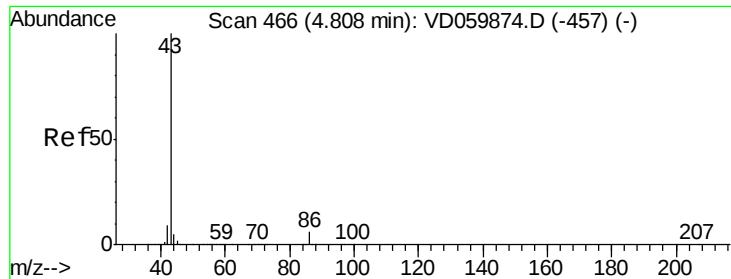
apatel
9/4/2018 10:49:26 AM



#22
Diisopropyl ether
Concen: 20.14 ug/l
RT: 4.82 min Scan# 467
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.4	48.6	72.8
87	15.8	13.3	19.9
59	8.4	7.1	10.7





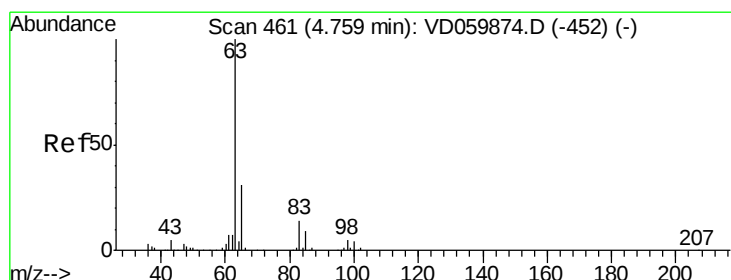
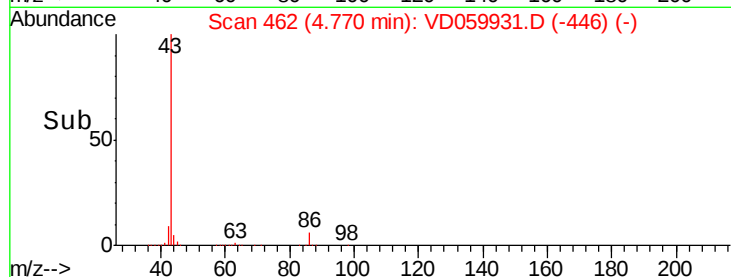
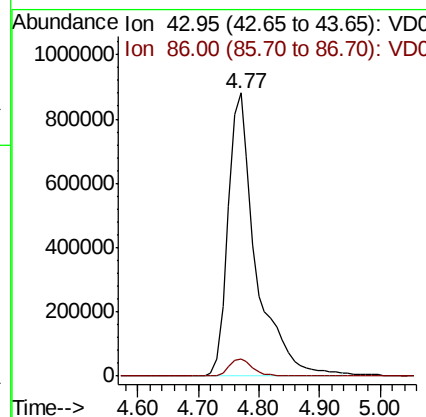
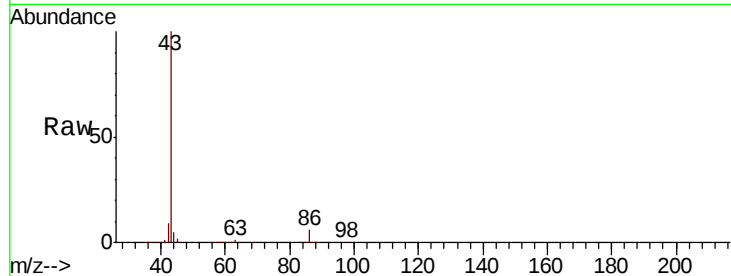
#23
 Vinyl Acetate
 Concen: 104.87 ug/l
 RT: 4.77 min Scan# 462
 Delta R.T. -0.04 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

Tot Ion: 43 Resp: 2801532
 Ion Ratio Lower Upper
 43 100
 86 6.3 5.0 7.6

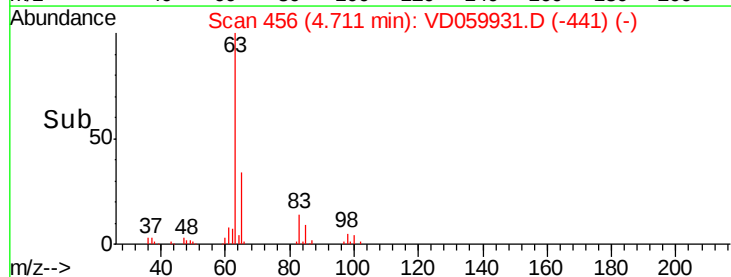
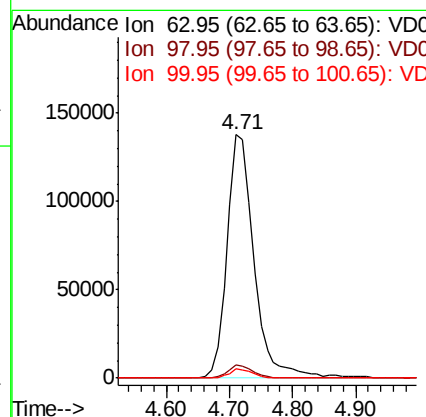
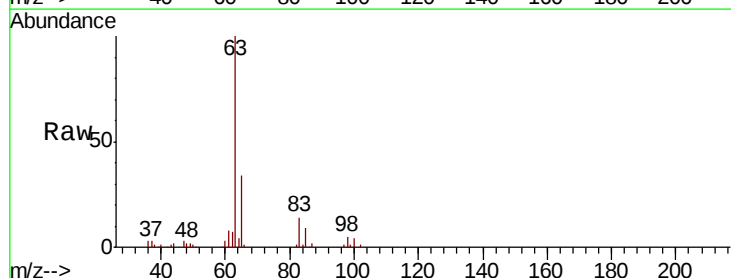
Manual Integrations
 APPROVED

apatel
 9/4/2018 10:49:26 AM



#24
 1,1-Dichloroethane
 Concen: 19.81 ug/l
 RT: 4.71 min Scan# 456
 Delta R.T. -0.05 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Tgt Ion: 63 Resp: 408925
 Ion Ratio Lower Upper
 63 100
 98 5.2 2.7 8.1
 100 3.6 1.8 5.3





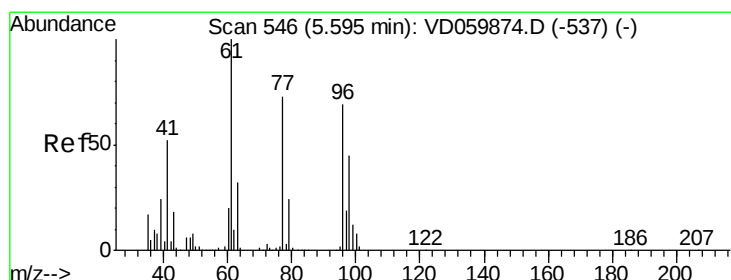
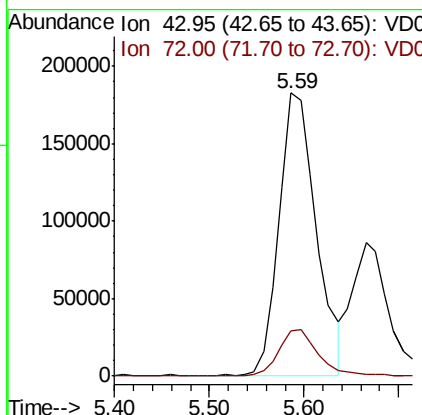
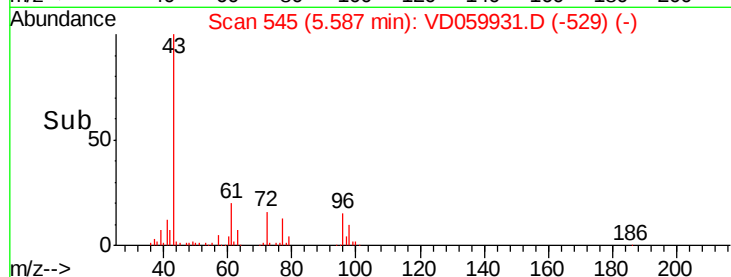
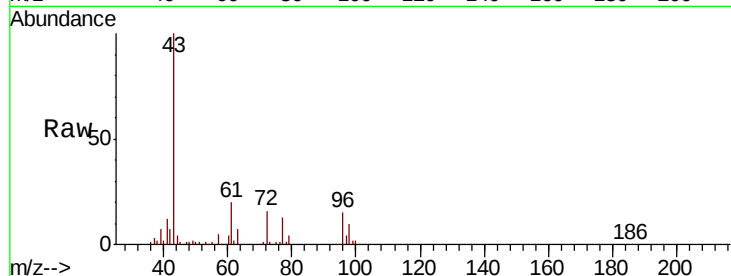
#25
2-Butanone
Concen: 92.99 ug/l
RT: 5.59 min Scan# 545
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion: 43 Resp: 500175
Ion Ratio Lower Upper
43 100
72 16.2 12.3 18.5

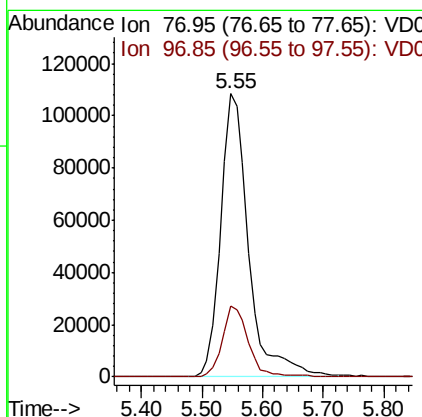
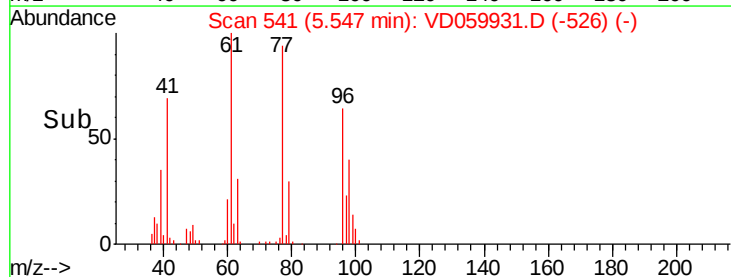
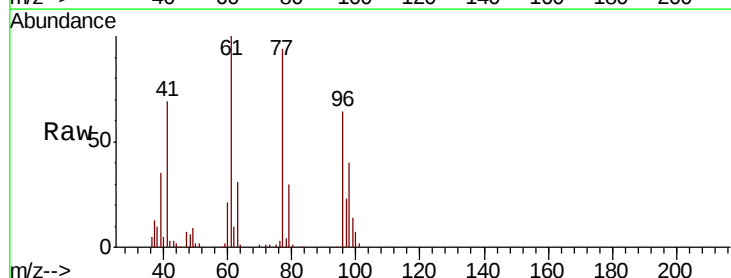
Manual Integrations
APPROVED

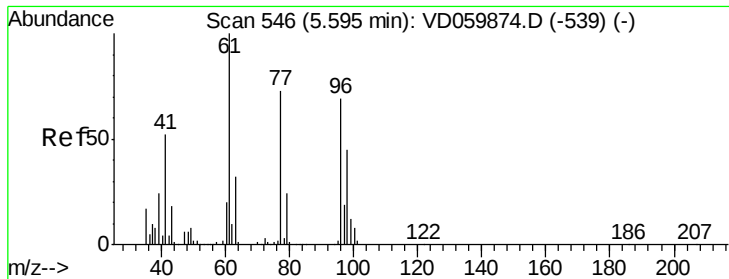
apatel
9/4/2018 10:49:26 AM



#26
2,2-Dichloropropane
Concen: 20.16 ug/l
RT: 5.55 min Scan# 541
Delta R.T. -0.05 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion: 77 Resp: 347852
Ion Ratio Lower Upper
77 100
97 24.9 13.0 38.9





#27

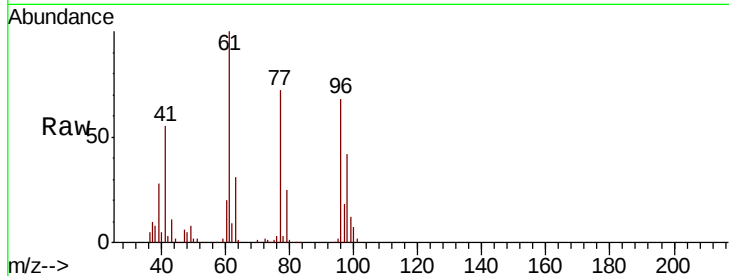
cis-1,2-Dichloroethene
 Concen: 20.32 ug/l
 RT: 5.56 min Scan# 542
 Delta R.T. -0.04 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	253891		
61	146.6		0.0	290.2
98	61.1		0.0	130.4

Manual Integrations
 APPROVED

apatel
 9/4/2018 10:49:26 AM

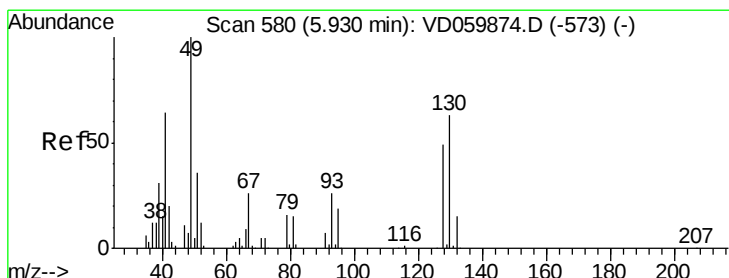
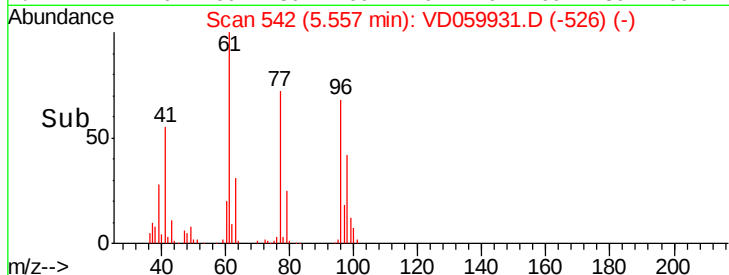
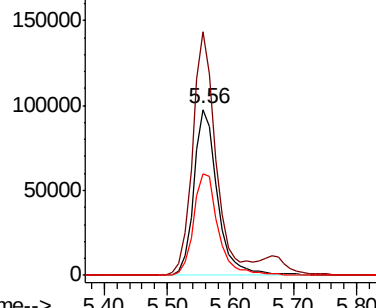


Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

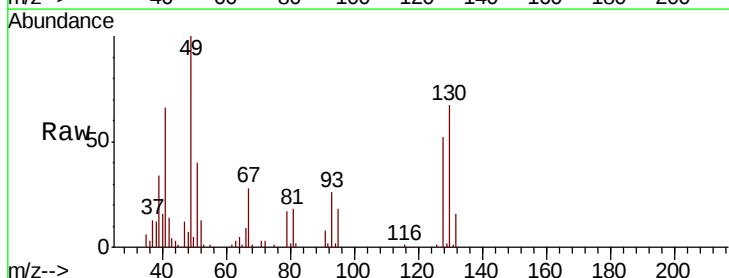
Ion 97.85 (97.55 to 98.55): VDC



#28

Bromochloromethane
 Concen: 20.58 ug/l
 RT: 5.89 min Scan# 576
 Delta R.T. -0.04 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	203659		
129	2.0		0.0	3.2
130	66.8		50.6	75.8

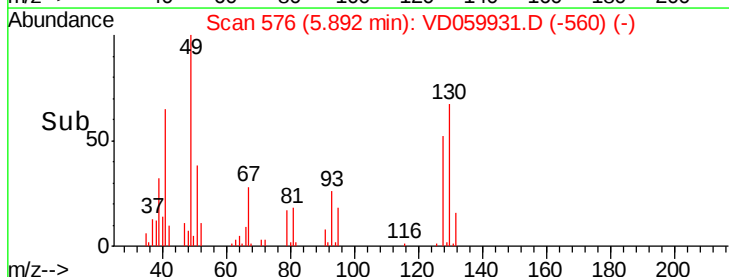
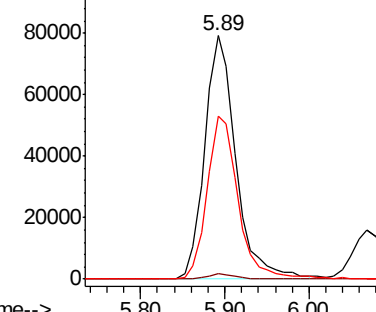


Abundance

Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





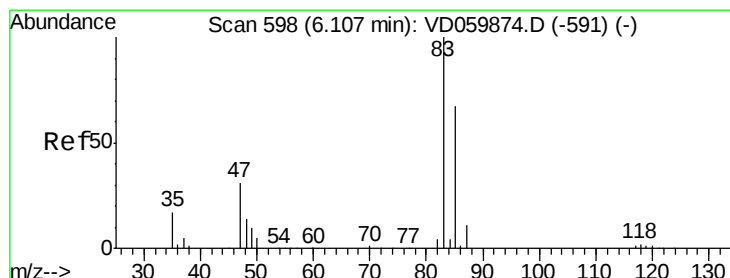
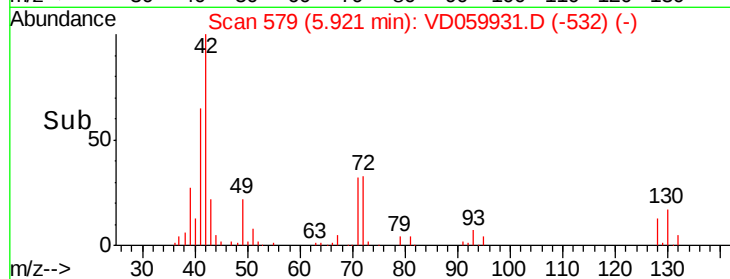
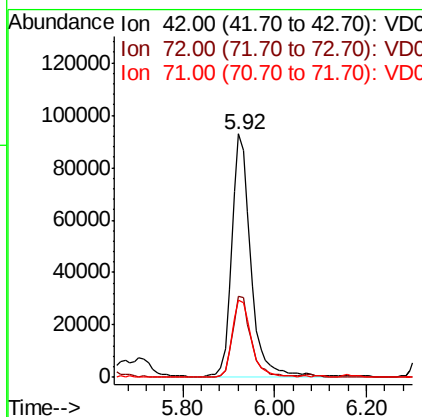
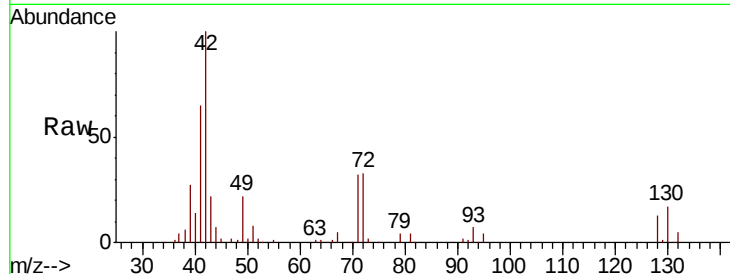
#29
Tetrahydrofuran
Concen: 106.26 ug/l
RT: 5.92 min Scan# 579
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	31.6	25.7	38.5
71	31.7	25.3	37.9

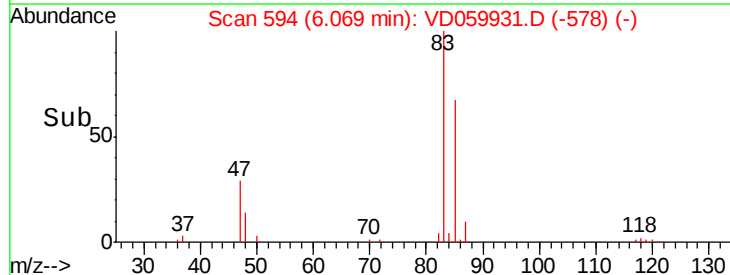
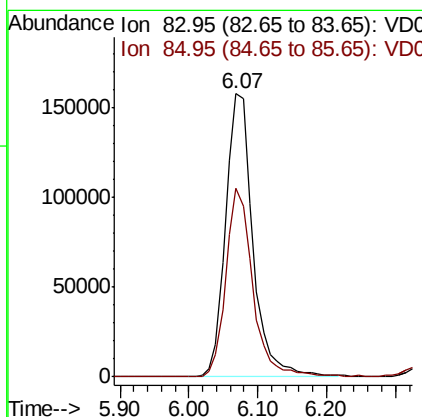
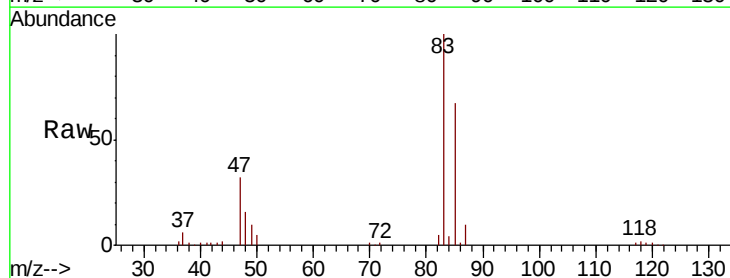
Manual Integrations
APPROVED

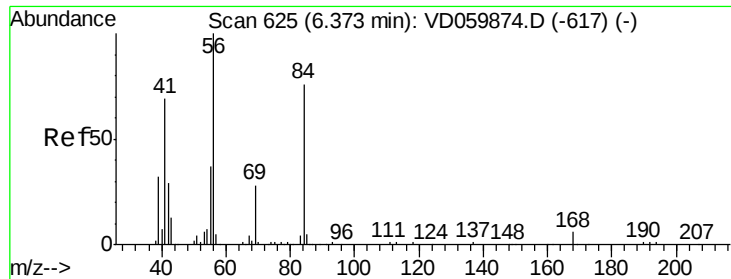
apatel
9/4/2018 10:49:26 AM



#30
Chloroform
Concen: 20.63 ug/l
RT: 6.07 min Scan# 594
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.6	53.5	80.3





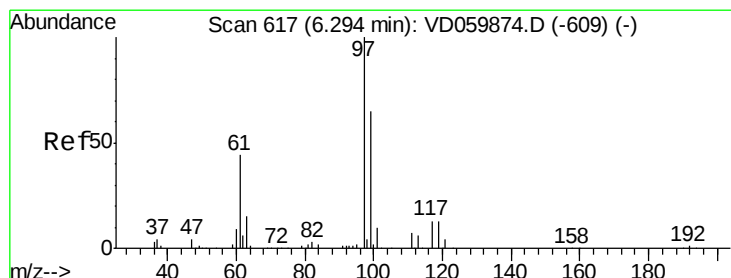
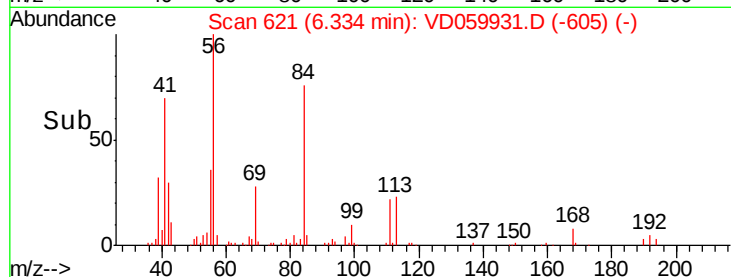
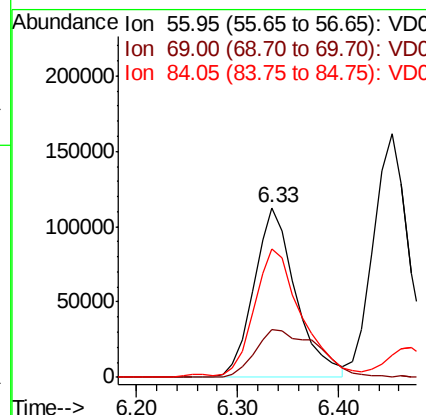
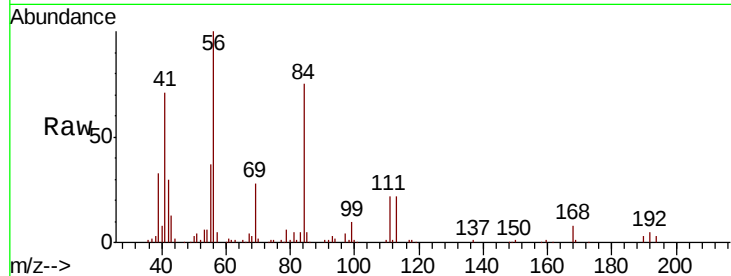
#31
Cvclohexane
Concen: 17.12 ug/l
RT: 6.33 min Scan# 621
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.9	22.4	33.6
84	75.3	62.1	93.1

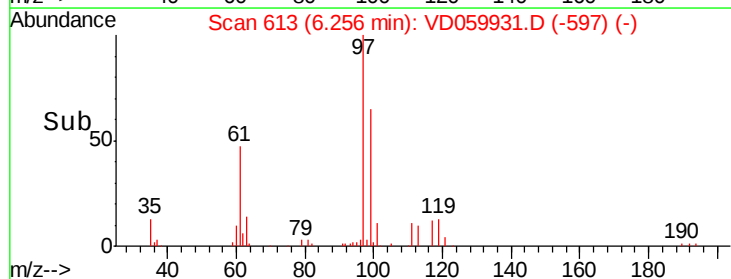
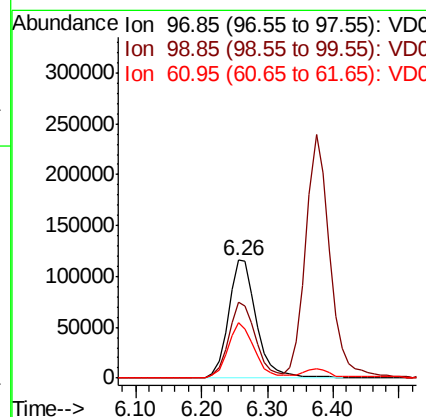
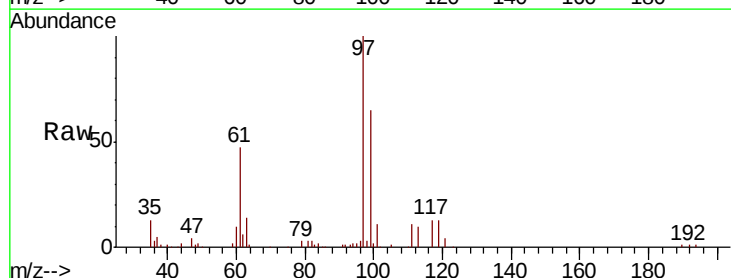
Manual Integrations
APPROVED

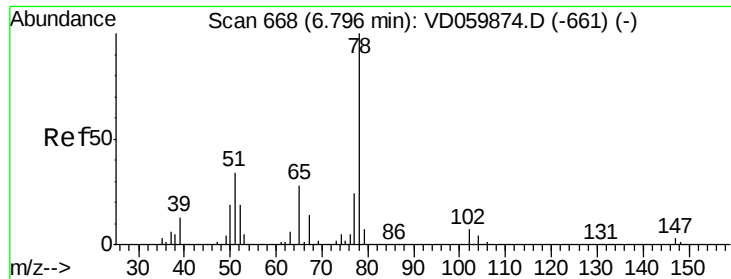
apatel
9/4/2018 10:49:26 AM



#32
1,1,1-Trichloroethane
Concen: 19.36 ug/l
RT: 6.26 min Scan# 613
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.7	77.5
61	46.9	35.4	53.2





#33

1,2-Dichloroethane-d4

Concen: 19.36 ug/l

RT: 6.76 min Scan# 664

Delta R.T. -0.04 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

Tot Ion: 65 Resp: 494480

Ion Ratio Lower Upper

65 100

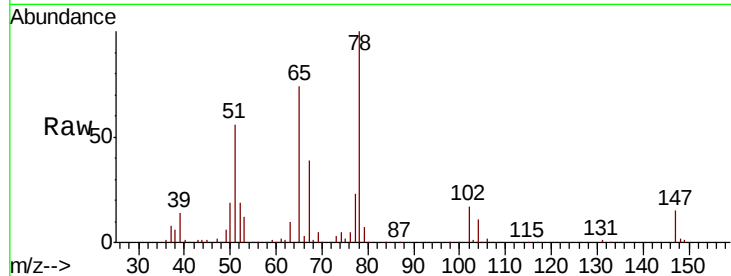
67 52.4 0.0 103.8

Manual Integrations

APPROVED

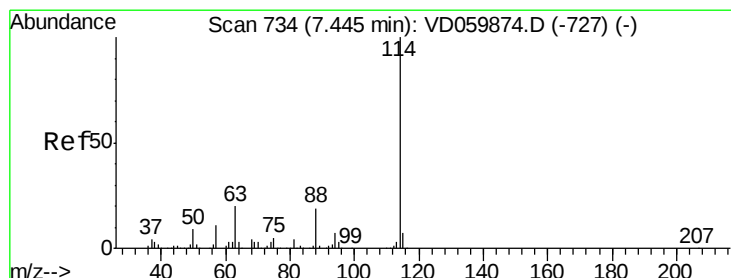
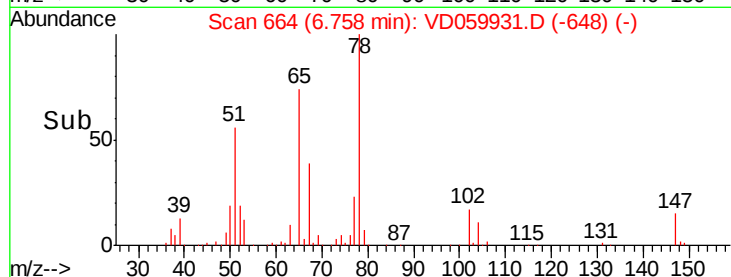
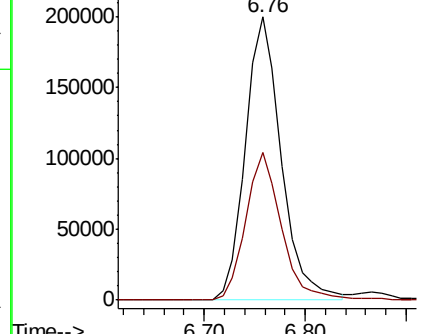
apatel

9/4/2018 10:49:26 AM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.42 min Scan# 731

Delta R.T. -0.03 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

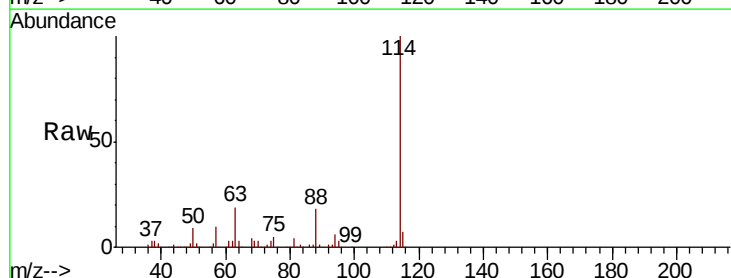
Tgt Ion: 114 Resp: 1621628

Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.4

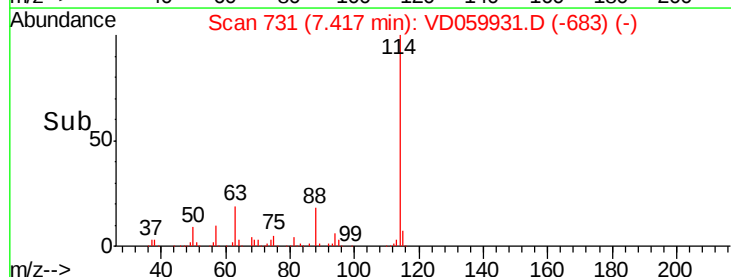
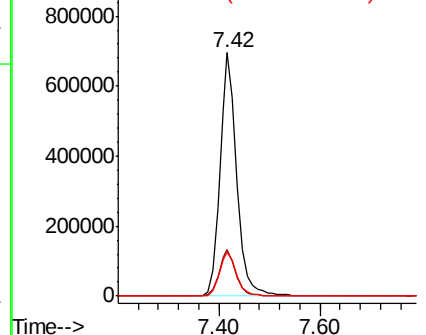
88 18.3 0.0 37.6

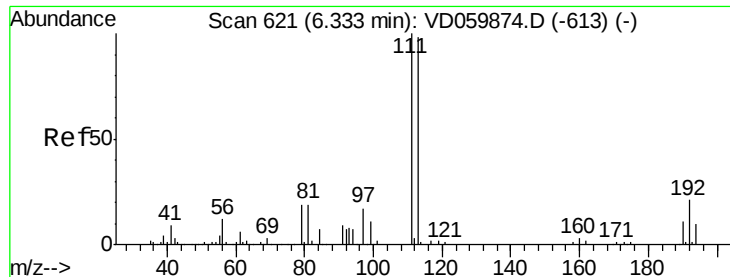


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.30 min Scan# 617

Delta R.T. -0.04 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

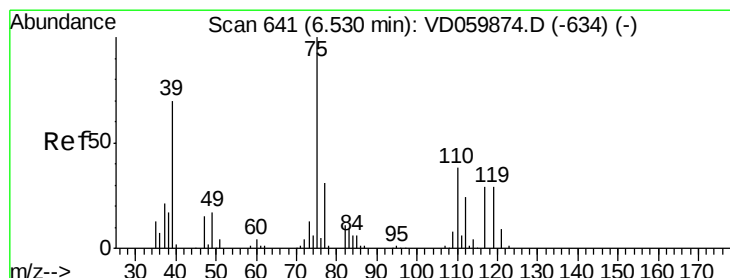
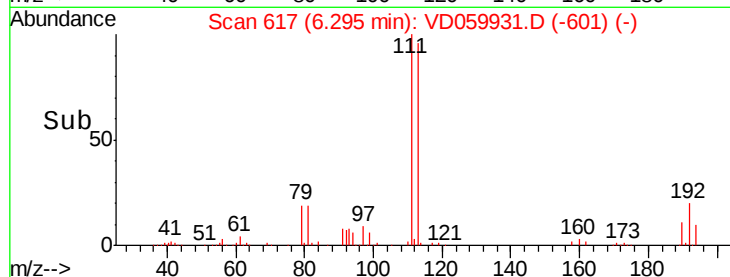
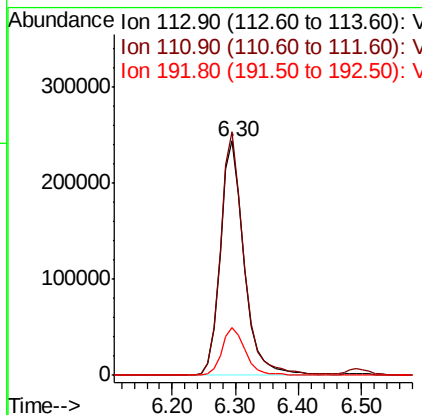
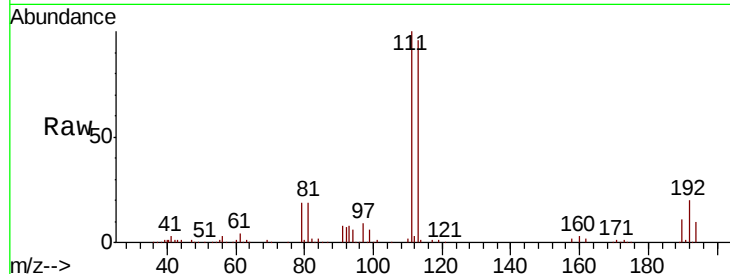
ClientSampleId :

VD0831SBS01

Tot Ion:	113	Resp:	637948
Ion Ratio	Lower	Upper	
113	100		
111	104.0	81.4	122.2
192	20.6	17.0	25.6

Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



#36

1,1-Dichloropropene

Concen: 19.04 ug/l

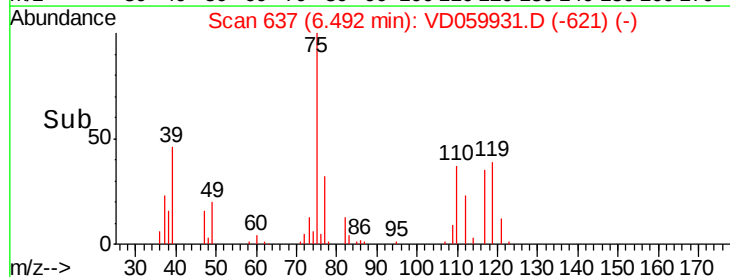
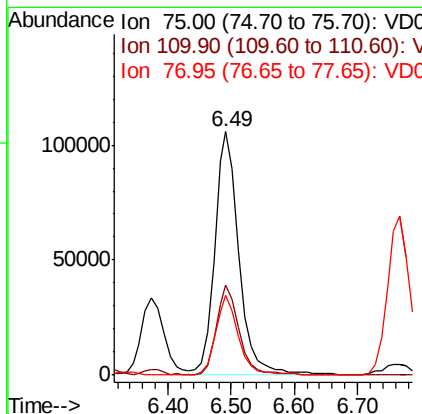
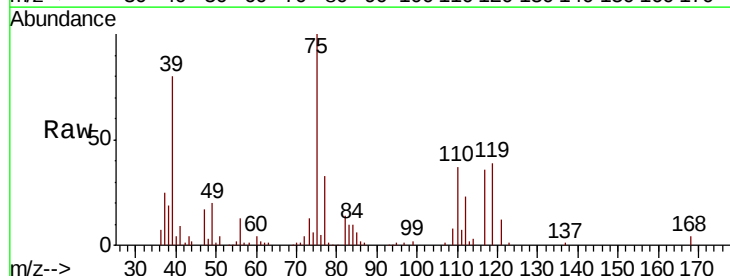
RT: 6.49 min Scan# 637

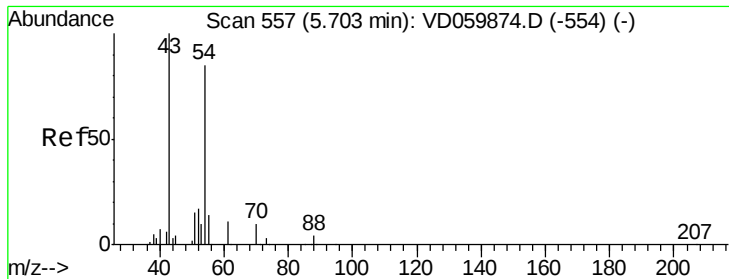
Delta R.T. -0.04 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Tgt Ion:	75	Resp:	279952
Ion Ratio	Lower	Upper	
75	100		
110	37.0	18.6	56.0
77	32.7	25.1	37.7





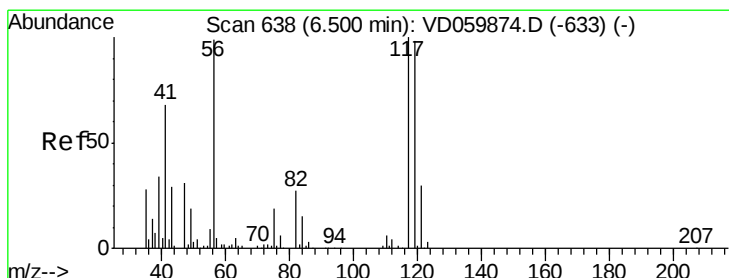
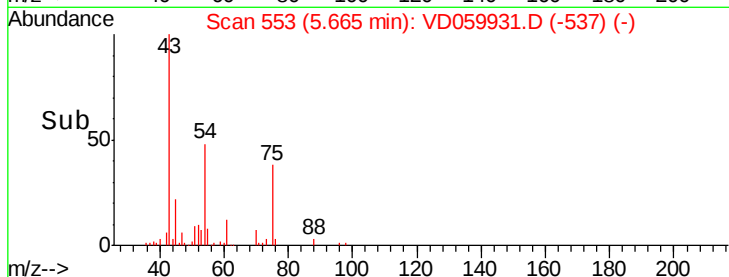
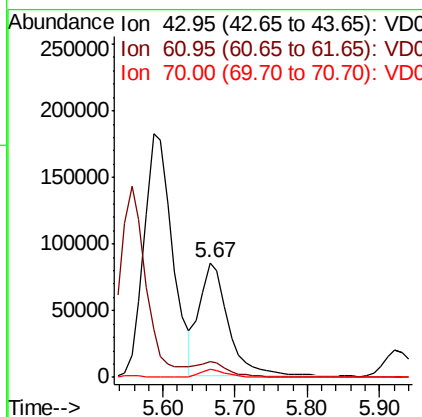
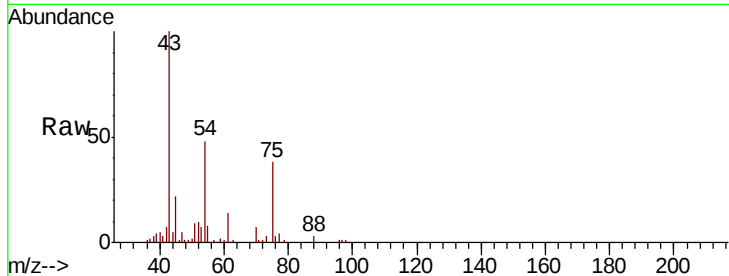
#37
Ethyl Acetate
Concen: 20.76 ug/l
RT: 5.67 min Scan# 553
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.0	16.6
70	6.8	5.7	8.5

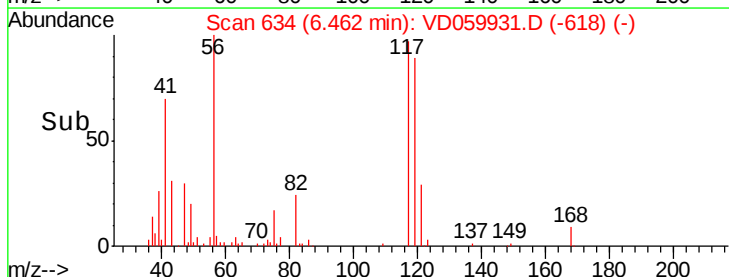
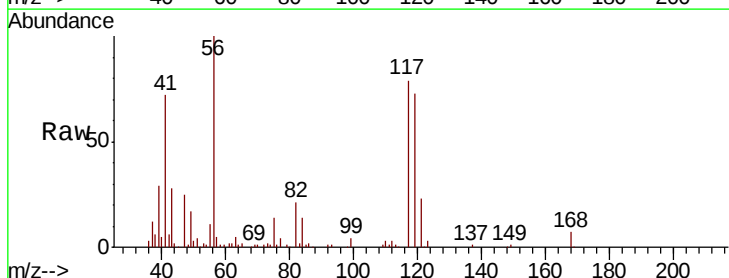
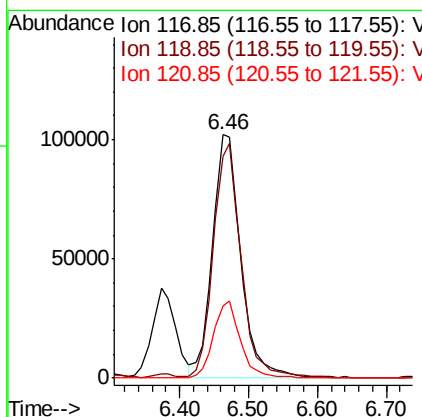
Manual Integrations
APPROVED

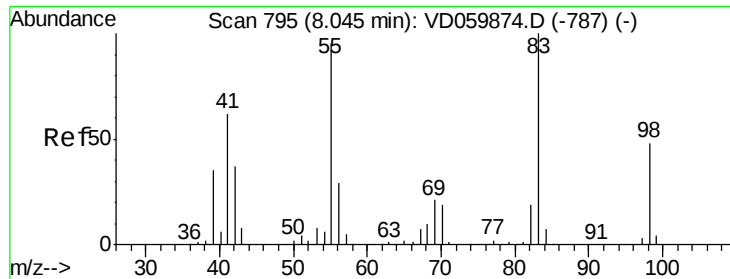
apatel
9/4/2018 10:49:26 AM



#38
Carbon Tetrachloride
Concen: 19.48 ug/l
RT: 6.46 min Scan# 634
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.3	77.2	115.8
121	29.6	24.0	36.0





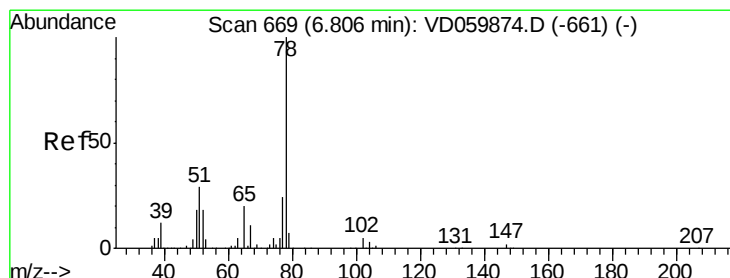
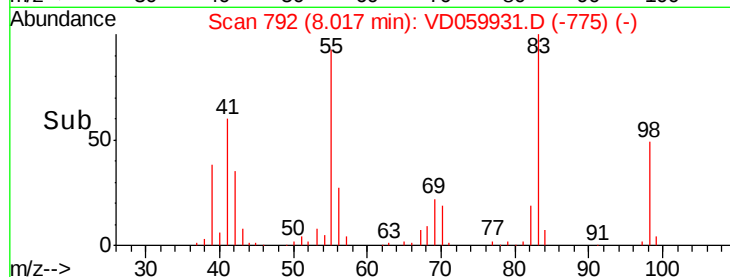
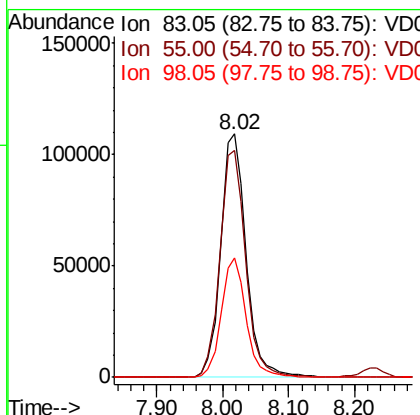
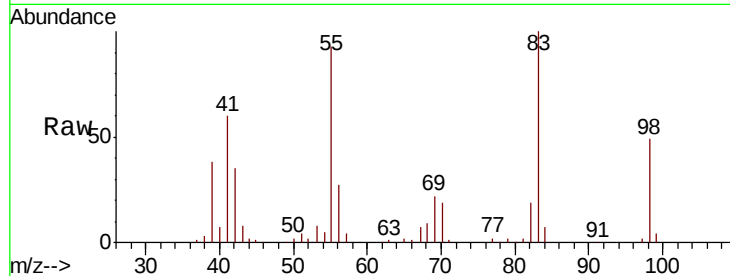
#39
Methvlcvclohexane
Concen: 18.48 ug/l
RT: 8.02 min Scan# 792
Delta R.T. -0.03 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	93.4	75.8	113.6
98	49.3	38.3	57.5

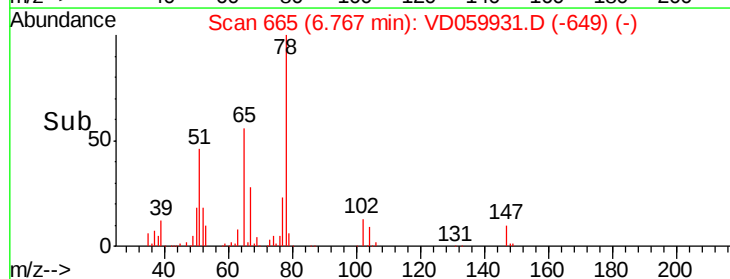
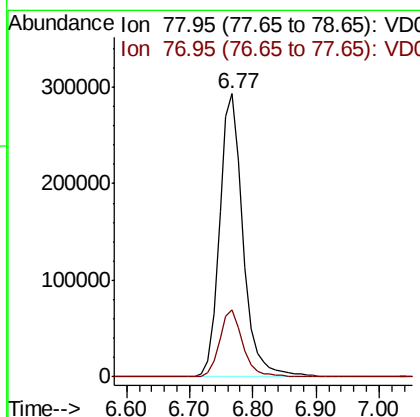
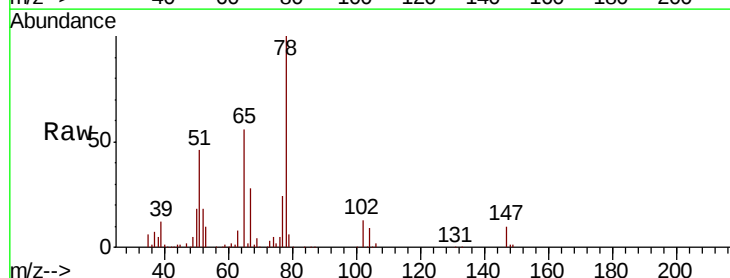
Manual Integrations
APPROVED

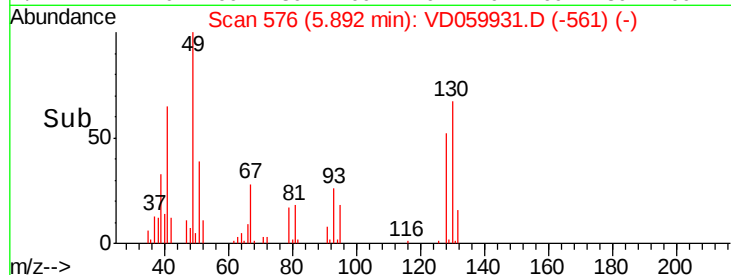
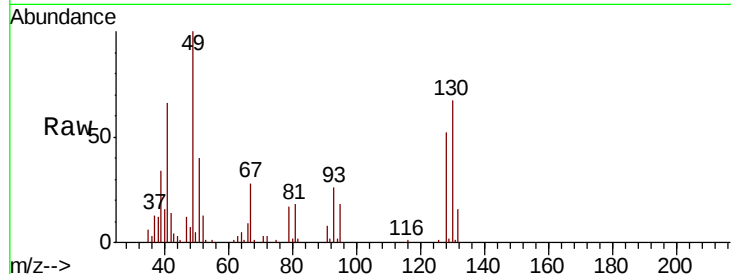
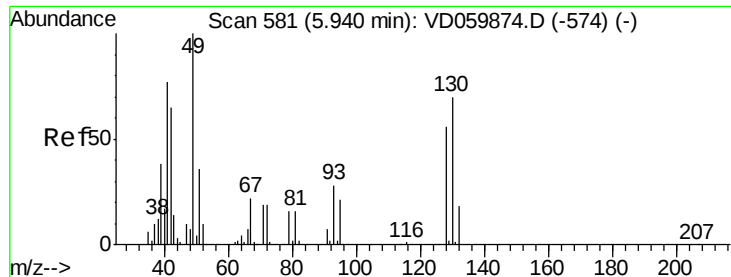
apatel
9/4/2018 10:49:26 AM



#40
Benzene
Concen: 19.87 ug/l
RT: 6.77 min Scan# 665
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4





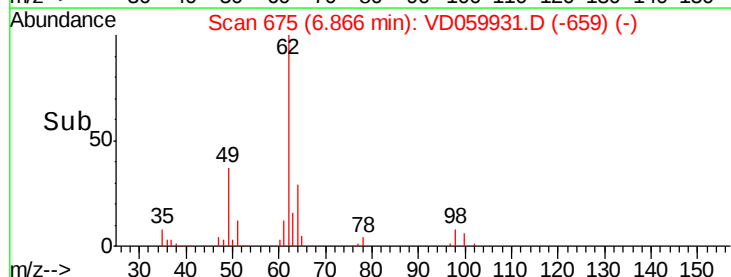
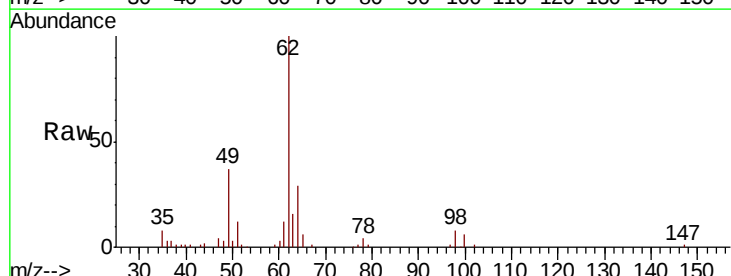
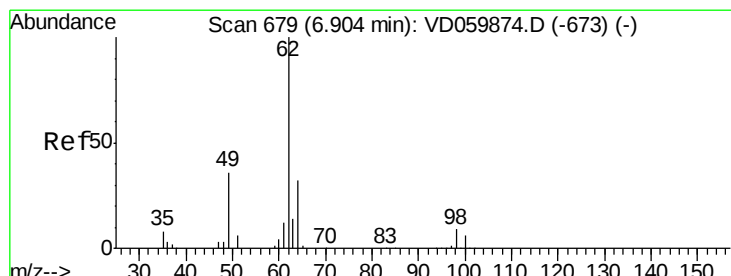
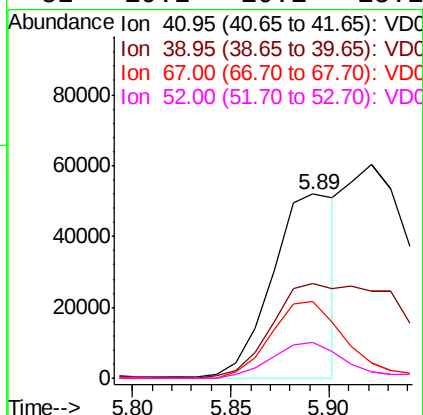
#41
Methacrylonitrile
Concen: 20.71 ug/l m
RT: 5.89 min Scan# 576
Delta R.T. -0.05 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.5	39.4	59.2
67	41.9	22.2	33.2#
52	19.2	10.1	15.1#

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

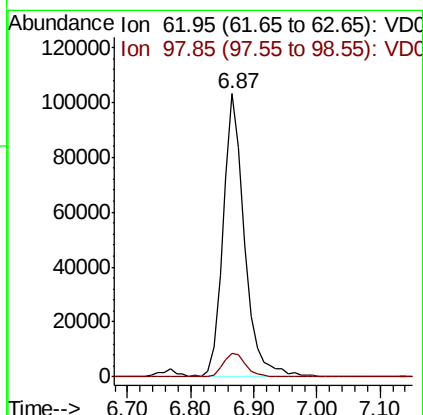
Manual Integrations
APPROVED

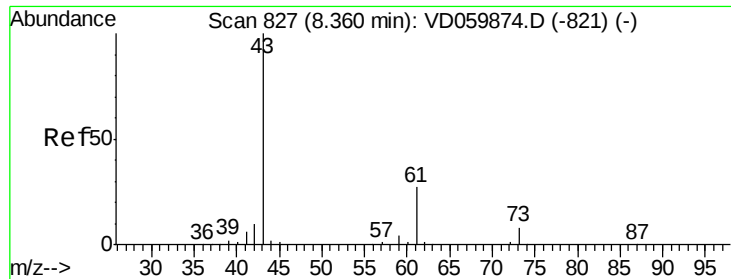
apatel
9/4/2018 10:49:26 AM



#42
1,2-Dichloroethane
Concen: 19.80 ug/l
RT: 6.87 min Scan# 675
Delta R.T. -0.04 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	18.4





#43

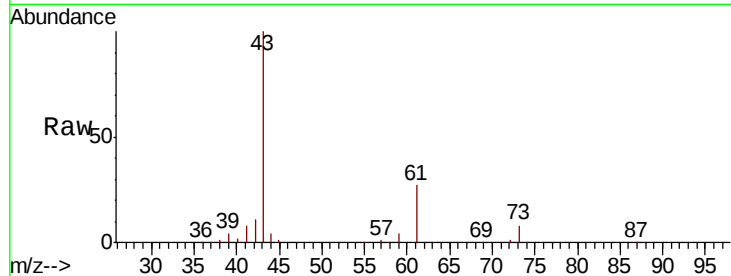
Isopropyl Acetate
 Concen: 20.20 ug/l
 RT: 8.33 min Scan# 824
 Delta R.T. -0.03 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0831SBS01

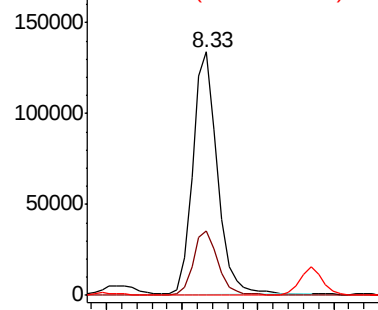
Tot Ion	Ratio	Lower	Upper
43	100		
61	26.7	21.4	32.2
87	0.2	0.2	0.4

Manual Integrations
 APPROVED

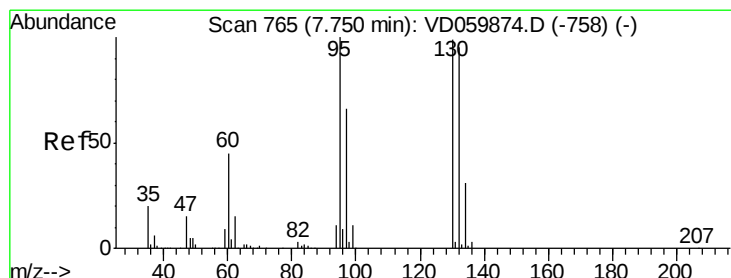
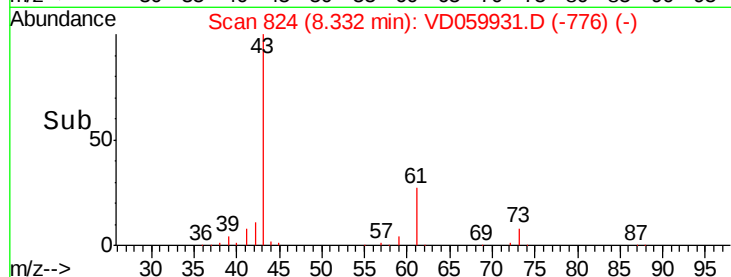
apatel
 9/4/2018 10:49:26 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



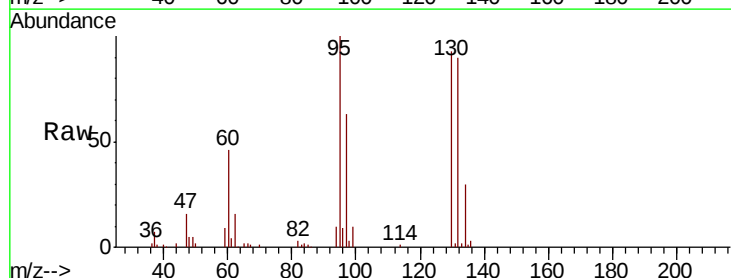
Time-->



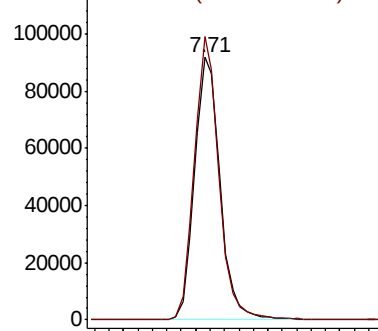
#44

Trichloroethene
 Concen: 19.90 ug/l
 RT: 7.71 min Scan# 761
 Delta R.T. -0.04 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

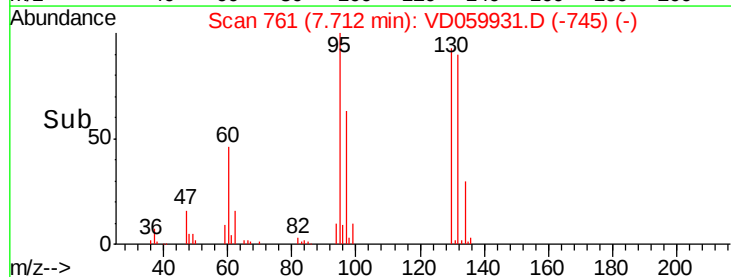
Tgt Ion	Ratio	Lower	Upper
130	100		
95	107.7	0.0	202.0



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC



Time-->





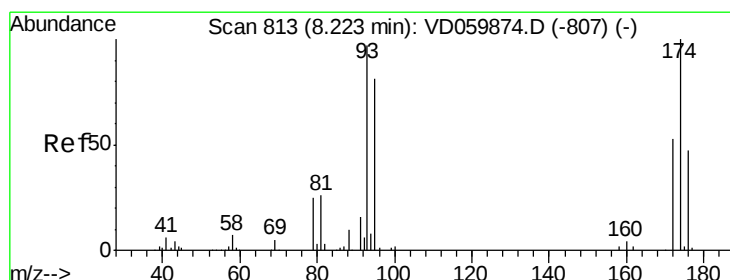
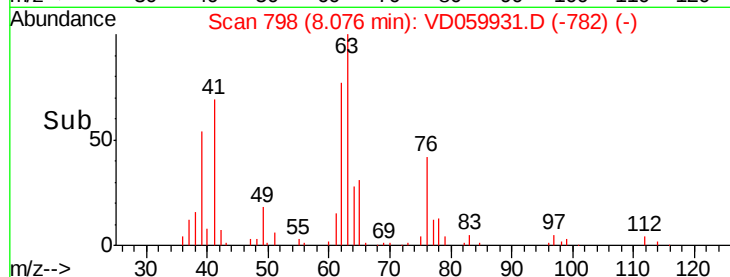
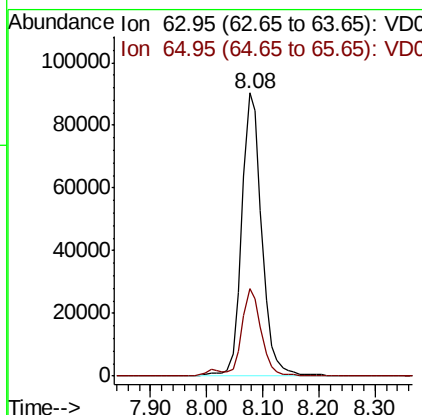
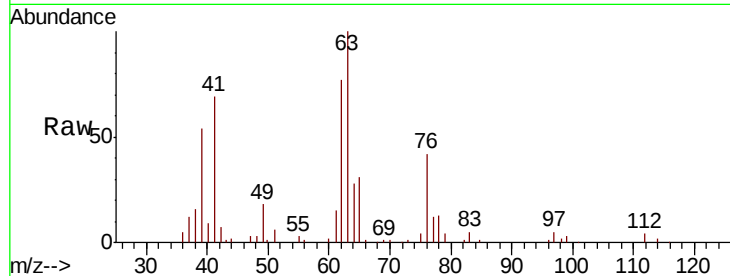
#45
 1,2-Dichloropropane
 Concen: 20.91 ug/l
 RT: 8.08 min Scan# 798
 Delta R.T. -0.04 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

Tot Ion: 63 Resp: 223457
 Ion Ratio Lower Upper
 63 100
 65 30.7 23.5 35.3

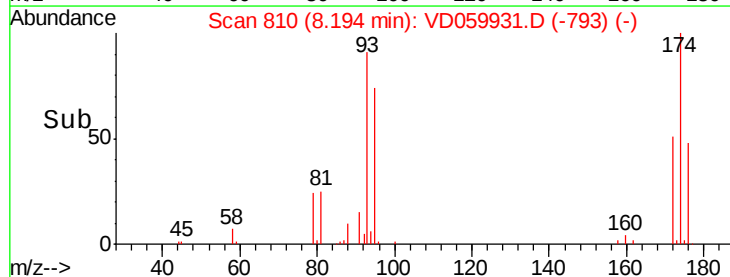
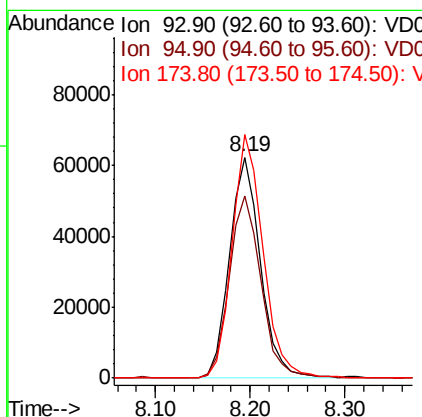
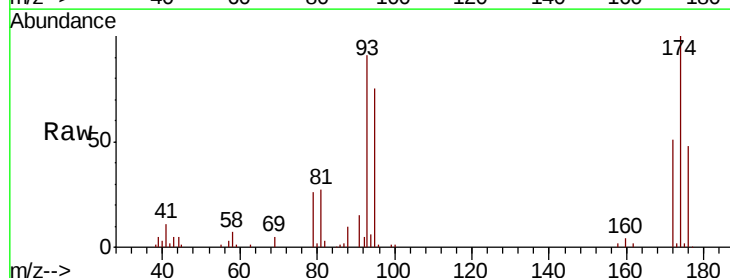
Manual Integrations
 APPROVED

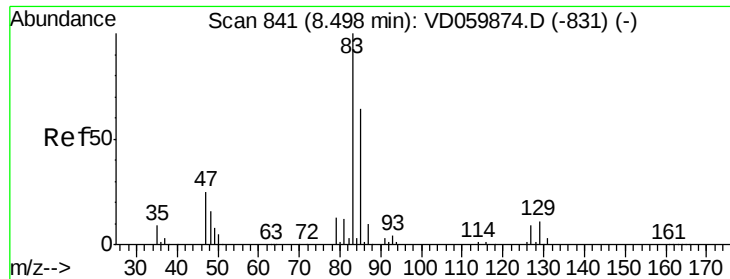
apatel
 9/4/2018 10:49:26 AM



#46
 Dibromomethane
 Concen: 20.44 ug/l
 RT: 8.19 min Scan# 810
 Delta R.T. -0.03 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Tgt Ion: 93 Resp: 140408
 Ion Ratio Lower Upper
 93 100
 95 82.8 66.6 100.0
 174 110.3 82.4 123.6





#47

Bromodichloromethane

Concen: 20.27 ug/l

RT: 8.47 min Scan# 838

Delta R.T. -0.03 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

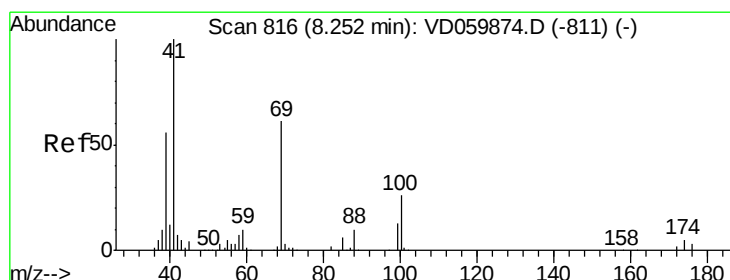
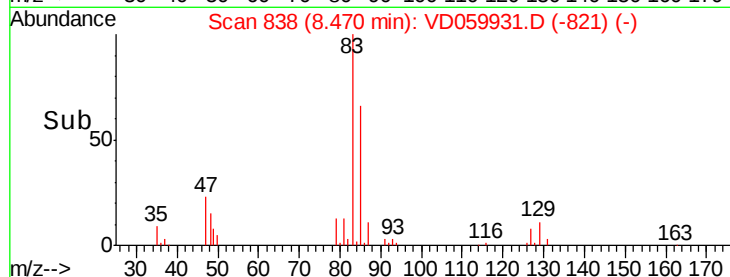
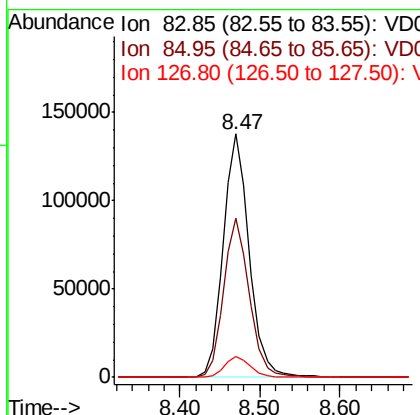
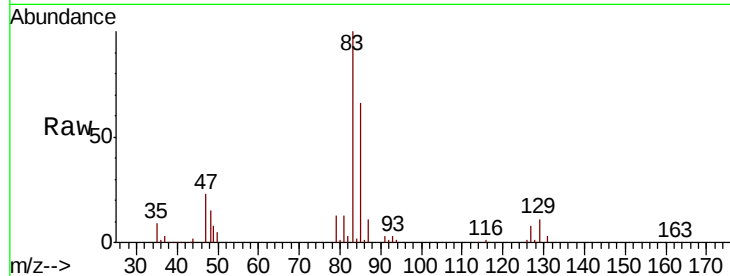
ClientSampleId :

VD0831SBS01

Tot Ion:	83	Resp:	315301
Ion Ratio	Lower	Upper	
83	100		
85	65.6	51.3	76.9
127	8.3	7.0	10.4

Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



#48

Methyl methacrylate

Concen: 21.21 ug/l

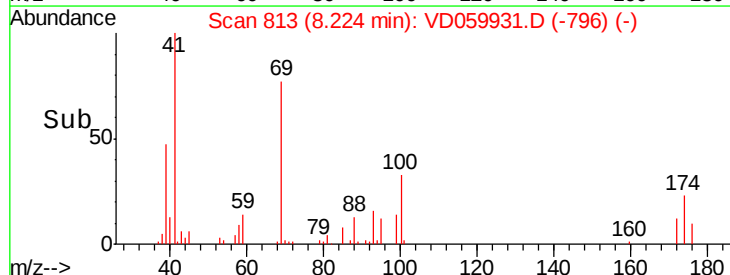
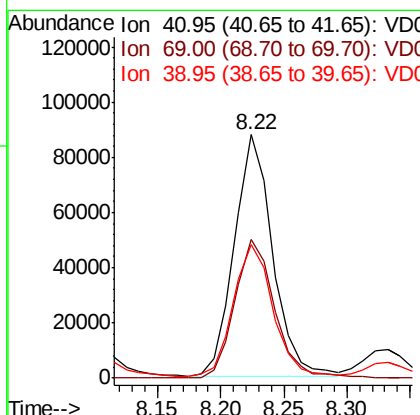
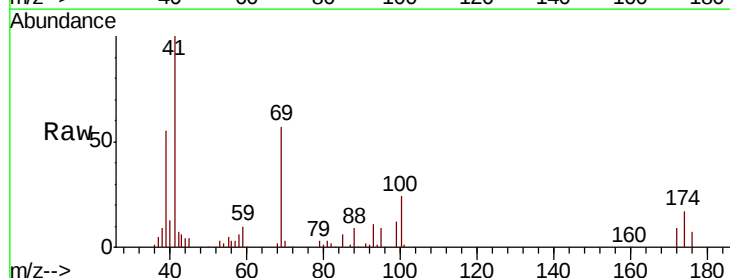
RT: 8.22 min Scan# 813

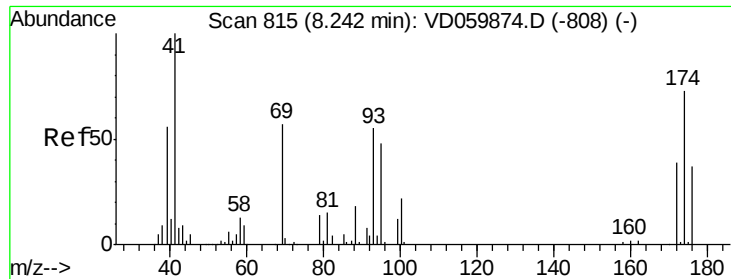
Delta R.T. -0.03 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Tgt Ion:	41	Resp:	184002
Ion Ratio	Lower	Upper	
41	100		
69	56.9	48.0	72.0
39	55.0	45.4	68.0





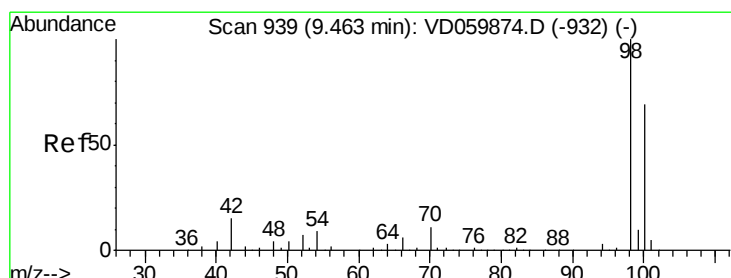
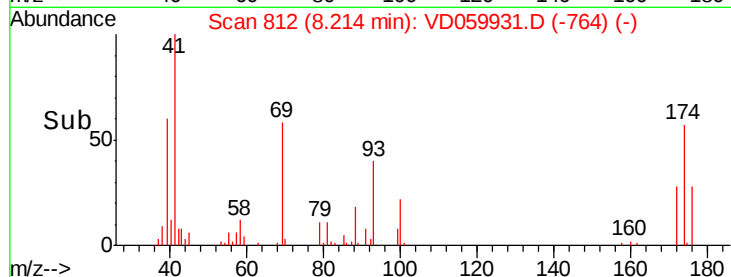
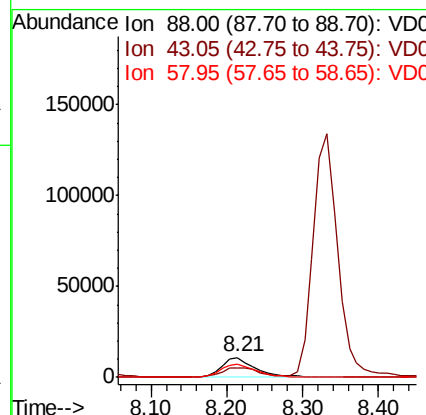
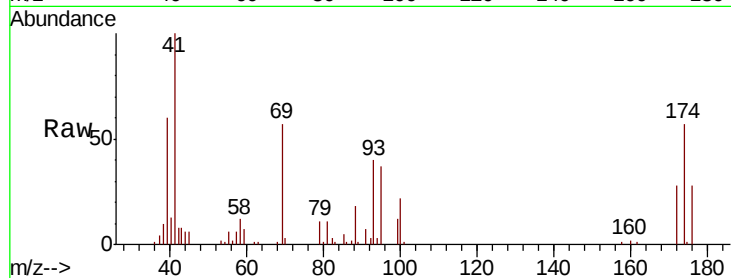
#49
1,4-Dioxane
Concen: 441.83 ug/l
RT: 8.21 min Scan# 812
Delta R.T. -0.03 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	88	Resp	34220
Ion Ratio	Lower	Upper	
88	100		
43	45.6	45.0	67.6
58	64.0	55.8	83.8

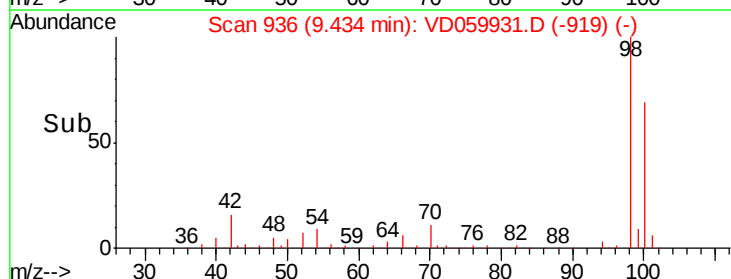
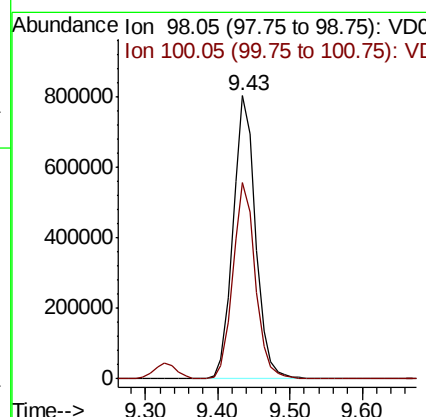
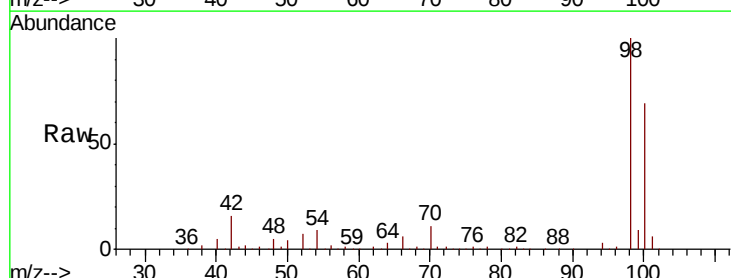
Manual Integrations
APPROVED

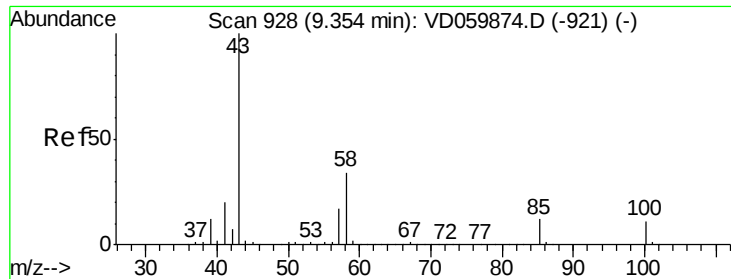
apatel
9/4/2018 10:49:26 AM



#50
Toluene-d8
Concen: 441.83 ug/l
RT: 9.43 min Scan# 936
Delta R.T. -0.03 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	98	Resp	1744823
Ion Ratio	Lower	Upper	
98	100		
100	69.5	55.8	83.6





#51

4-Methyl-2-Pentanone

Concen: 93.17 ug/l

RT: 9.33 min Scan# 925

Delta R.T. -0.03 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleID :

VD0831SBS01

Tot Ion: 43 Resp: 1033746

Ion Ratio Lower Upper

43 100

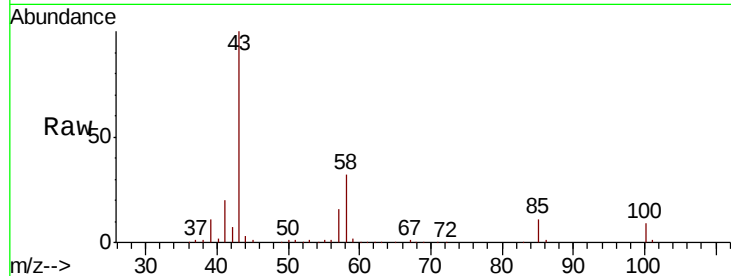
58 32.2 27.0 40.4

Manual Integrations

APPROVED

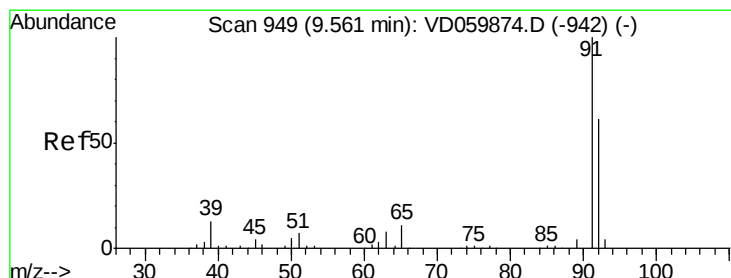
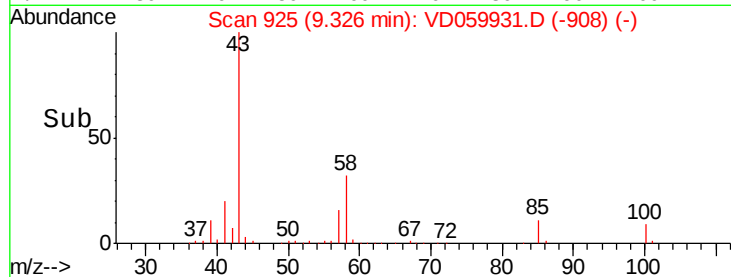
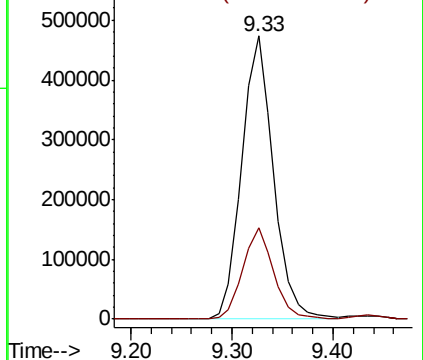
apatel

9/4/2018 10:49:26 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 20.31 ug/l

RT: 9.53 min Scan# 946

Delta R.T. -0.03 min

Lab File: VD059931.D

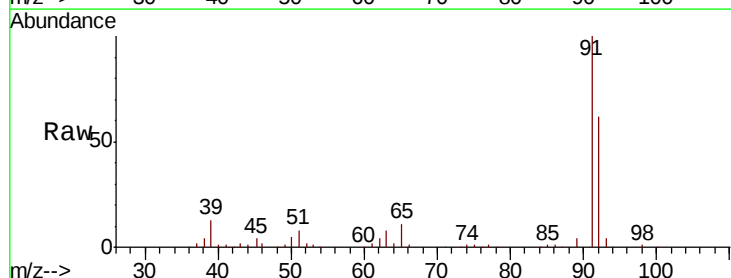
Acq: 31 Aug 2018 13:03

Tgt Ion: 92 Resp: 497826

Ion Ratio Lower Upper

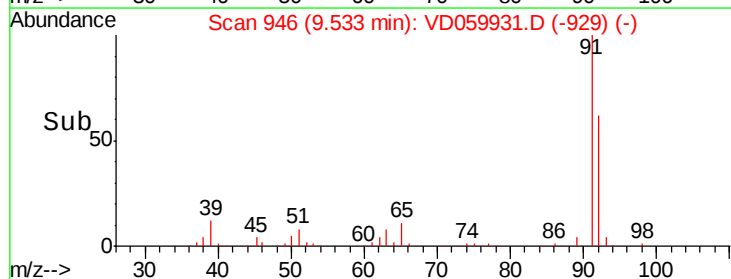
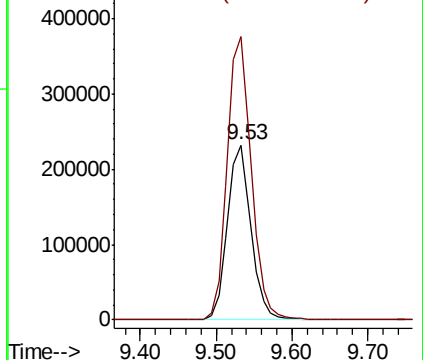
92 100

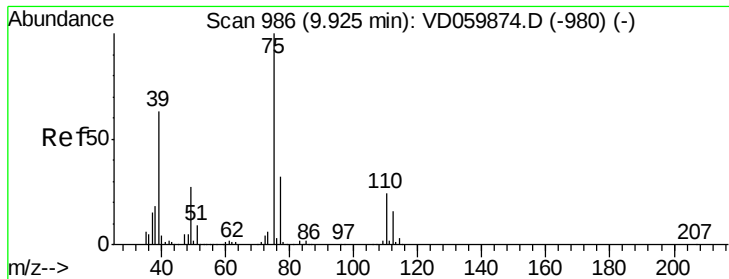
91 161.8 131.4 197.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 20.58 ug/l

RT: 9.90 min Scan# 983

Delta R.T. -0.03 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

Tot Ion: 75 Resp: 296077

Ion Ratio Lower Upper

75 100

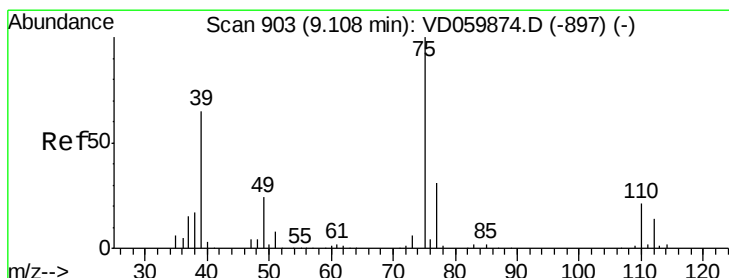
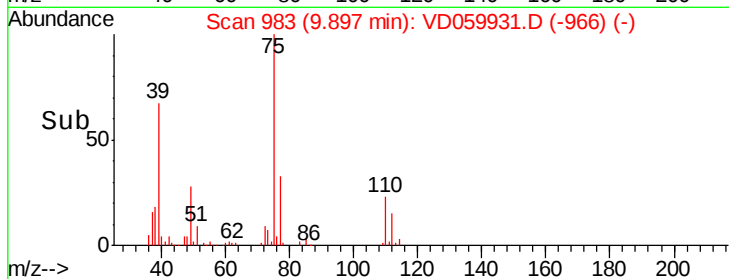
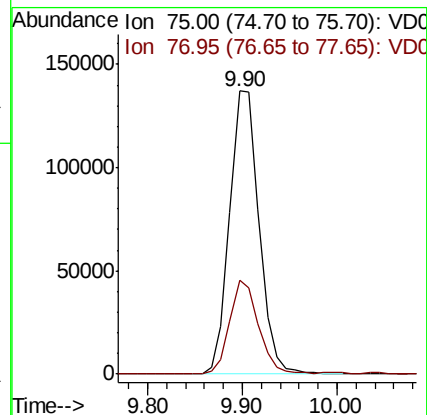
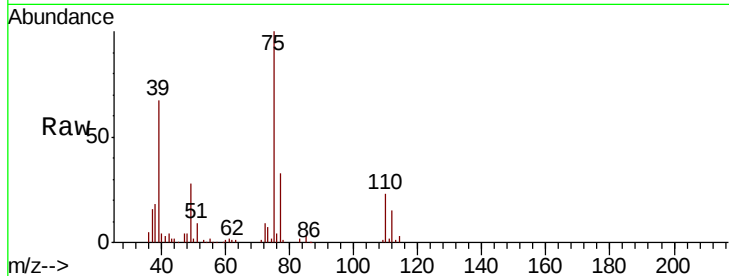
77 33.3 25.4 38.2

Manual Integrations

APPROVED

apatel

9/4/2018 10:49:26 AM



#54

cis-1,3-Dichloropropene

Concen: 20.34 ug/l

RT: 9.08 min Scan# 900

Delta R.T. -0.03 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

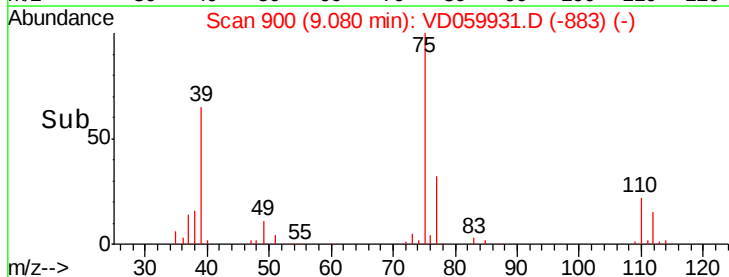
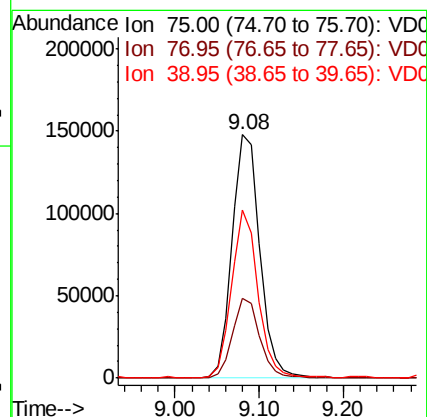
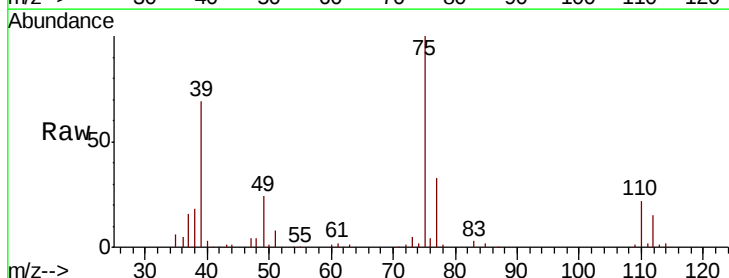
Tgt Ion: 75 Resp: 339263

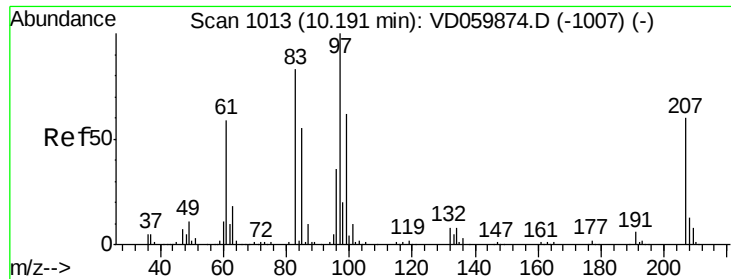
Ion Ratio Lower Upper

75 100

77 32.6 24.8 37.2

39 69.1 52.1 78.1





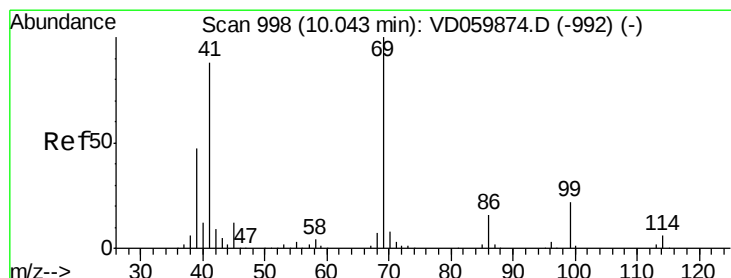
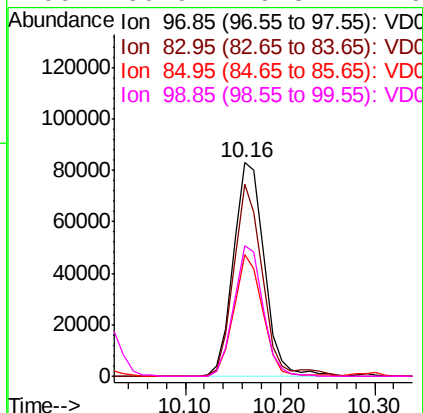
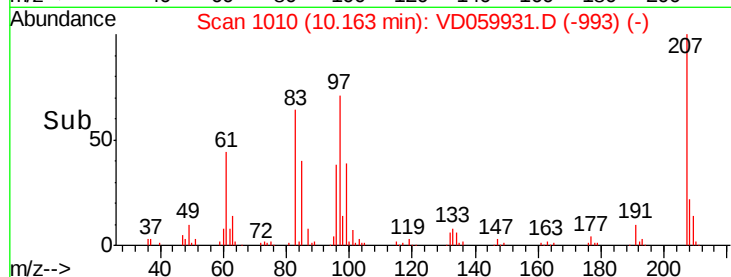
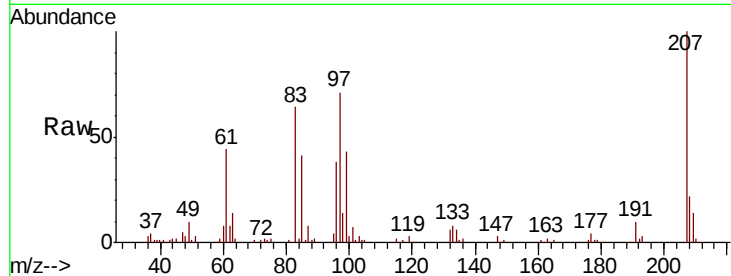
#55
1,1,2-Trichloroethane
Concen: 20.83 ug/l
RT: 10.16 min Scan# 1010
Delta R.T. -0.03 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	97	Resp	186635
Ion Ratio	Lower	Upper	
97	100		
83	89.9	66.7	100.1
85	57.0	43.8	65.6
99	60.9	49.8	74.6

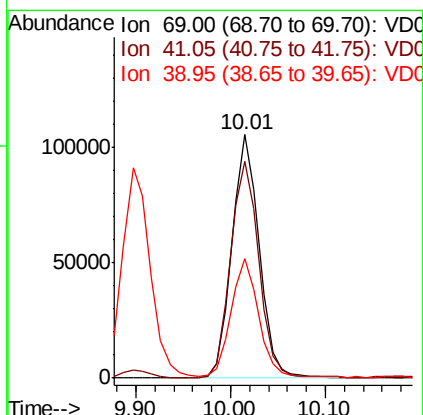
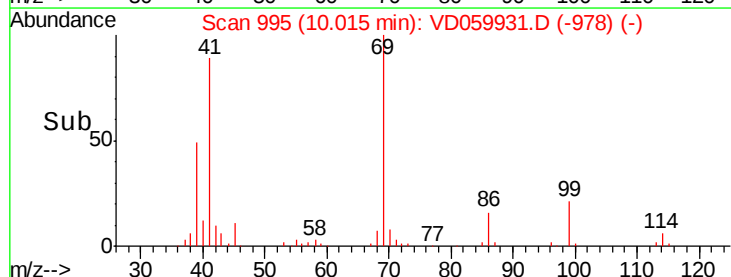
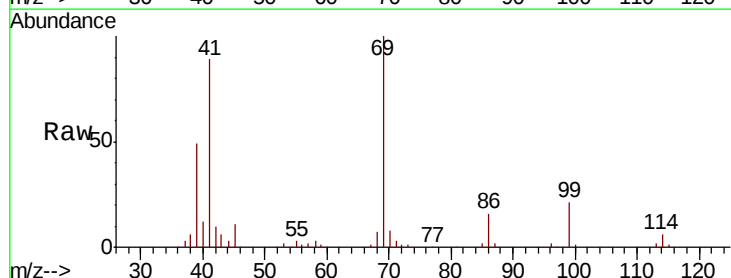
Manual Integrations
APPROVED

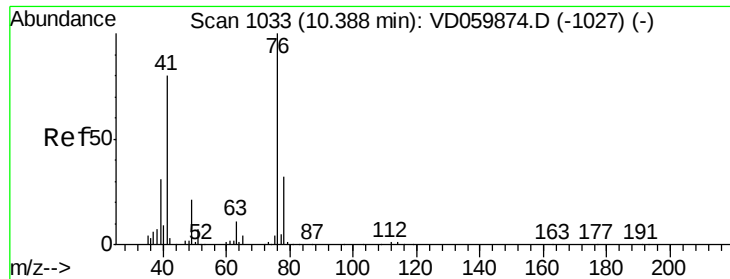
apatel
9/4/2018 10:49:26 AM



#56
Ethyl methacrylate
Concen: 20.38 ug/l
RT: 10.01 min Scan# 995
Delta R.T. -0.03 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	69	Resp	210777
Ion Ratio	Lower	Upper	
69	100		
41	89.1	71.0	106.4
39	49.0	38.5	57.7





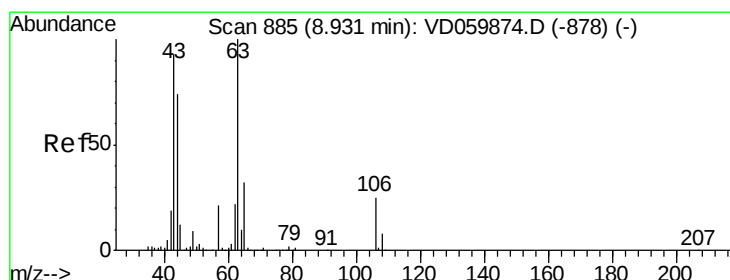
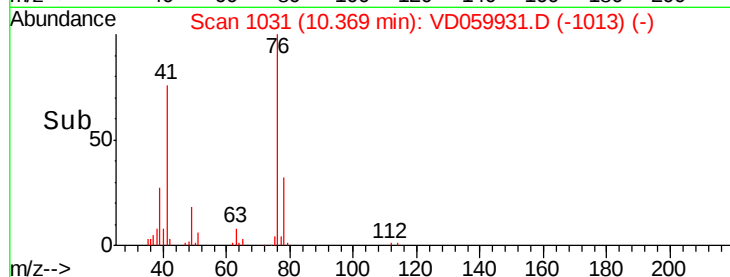
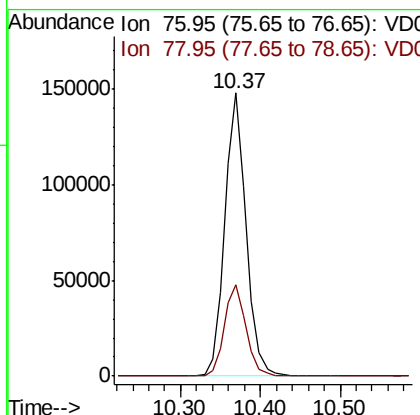
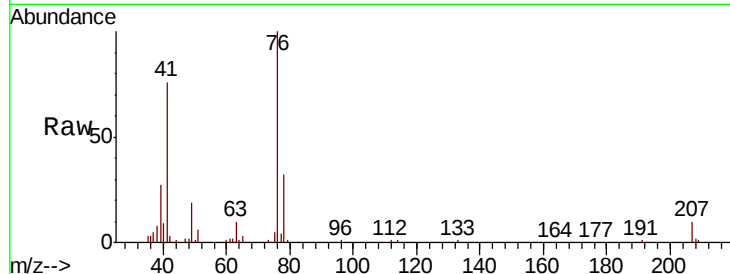
#57
 1,3-Dichloropropane
 Concen: 21.49 ug/l
 RT: 10.37 min Scan# 1031
 Delta R.T. -0.02 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

Tot Ion: 76 Resp: 278715
 Ion Ratio Lower Upper
 76 100
 78 32.3 25.8 38.6

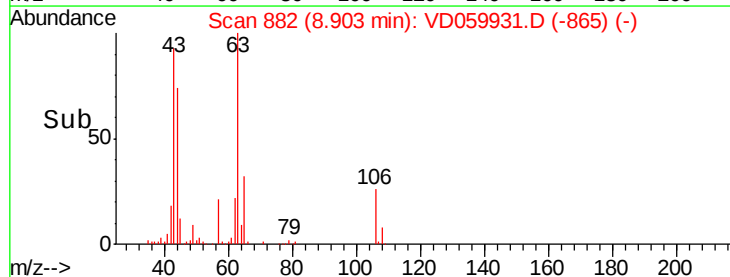
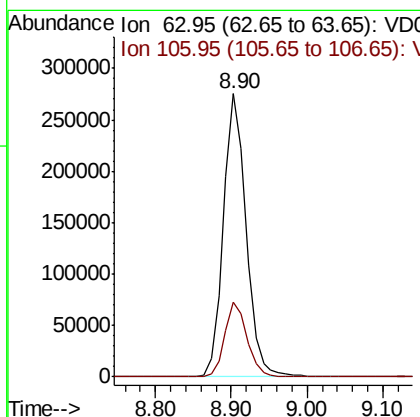
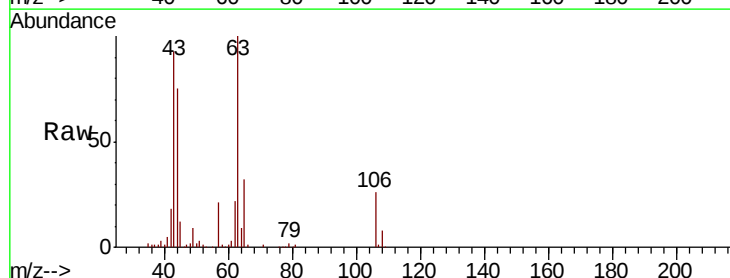
Manual Integrations
 APPROVED

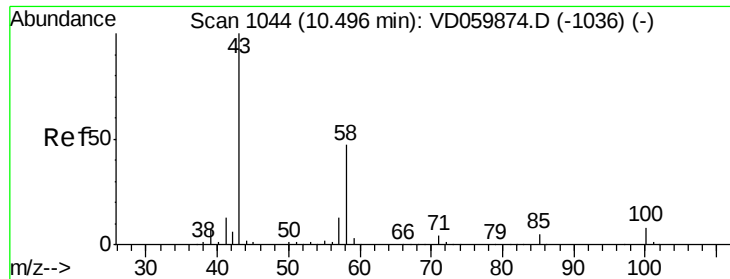
apatel
 9/4/2018 10:49:26 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 115.65 ug/l
 RT: 8.90 min Scan# 882
 Delta R.T. -0.03 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Tgt Ion: 63 Resp: 573643
 Ion Ratio Lower Upper
 63 100
 106 26.2 20.1 30.1





#59

2-Hexanone

Concen: 97.29 ug/l

RT: 10.48 min Scan# 1042

Delta R.T. -0.02 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

Tot Ion: 43 Resp: 796173

Ion Ratio Lower Upper

43 100

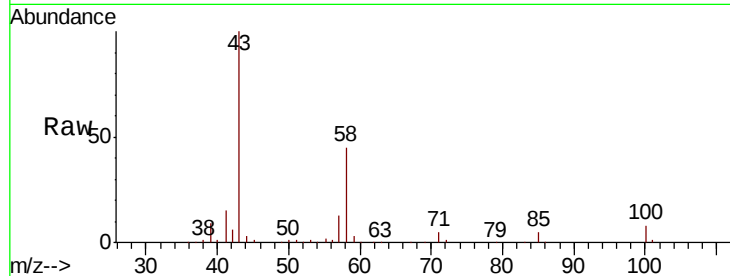
58 45.0 23.3 69.8

Manual Integrations

APPROVED

apatel

9/4/2018 10:49:26 AM



Abundance Ion 42.95 (42.65 to 43.65): VD059931.D (-1024) (-)

Ion 57.95 (57.65 to 58.65): VD059931.D (-1024) (-)

10.48

400000

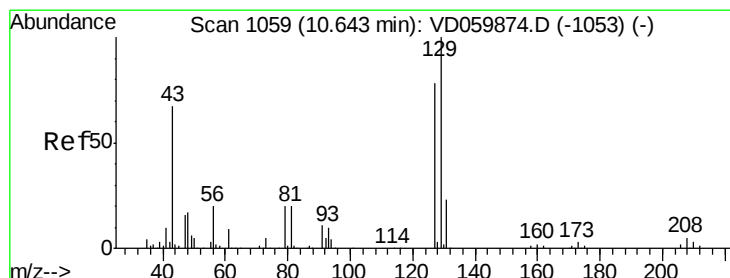
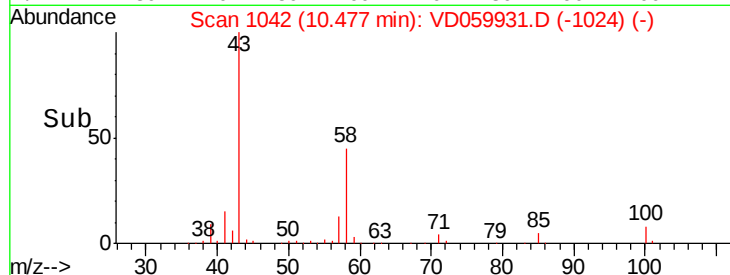
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 20.50 ug/l

RT: 10.63 min Scan# 1057

Delta R.T. -0.02 min

Lab File: VD059931.D

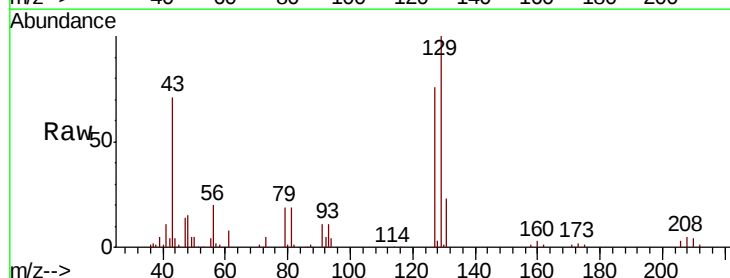
Acq: 31 Aug 2018 13:03

Tgt Ion: 129 Resp: 230852

Ion Ratio Lower Upper

129 100

127 75.6 39.1 117.2



Abundance Ion 128.80 (128.50 to 129.50): VD059931.D (-1039) (-)

Ion 126.80 (126.50 to 127.50): VD059931.D (-1039) (-)

10.63

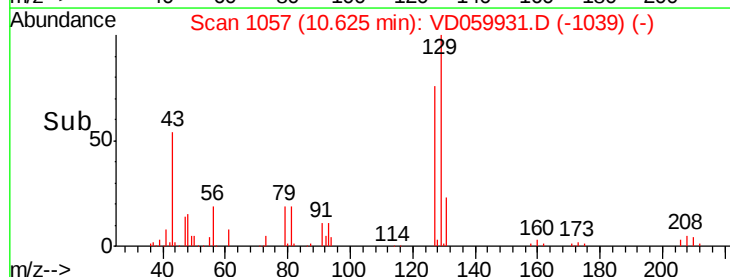
150000

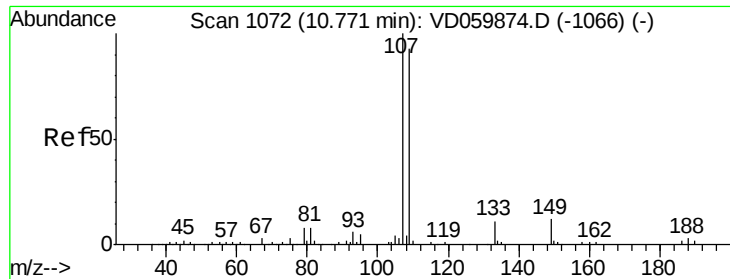
100000

50000

0

Time-->





#61

1,2-Dibromoethane

Concen: 20.39 ug/l

RT: 10.74 min Scan# 1069

Delta R.T. -0.03 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBSD01

Tot Ion:107 Resp: 184739

Ion Ratio Lower Upper

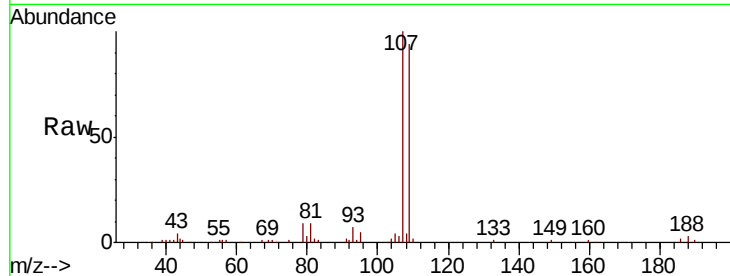
107 100

109 94.5 74.6 112.0

Manual Integrations
APPROVED

apatel

9/4/2018 10:49:26 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.74

100000

80000

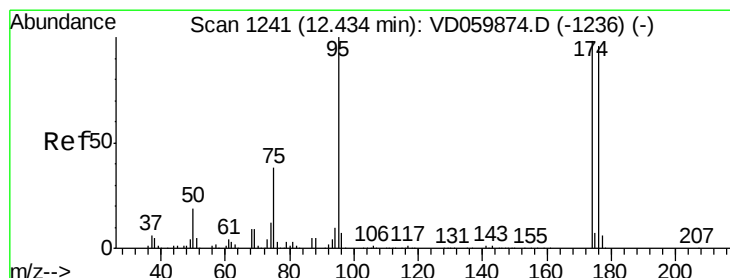
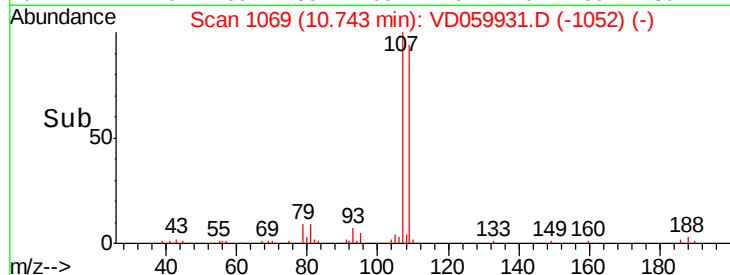
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 20.39 ug/l

RT: 12.42 min Scan# 1239

Delta R.T. -0.02 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

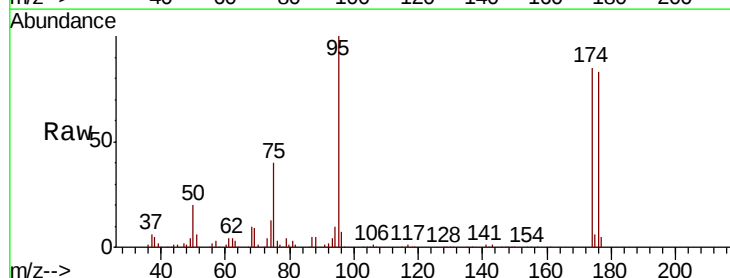
Tgt Ion: 95 Resp: 698224

Ion Ratio Lower Upper

95 100

174 85.2 0.0 195.6

176 83.1 0.0 191.2



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

12.42

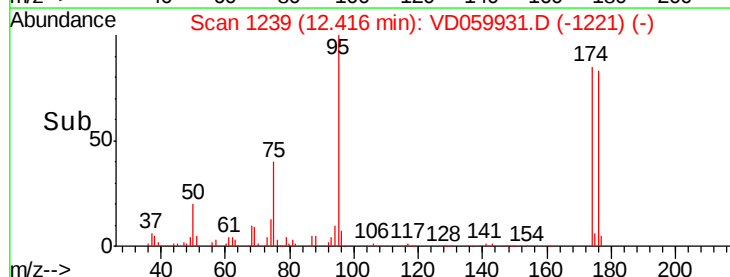
600000

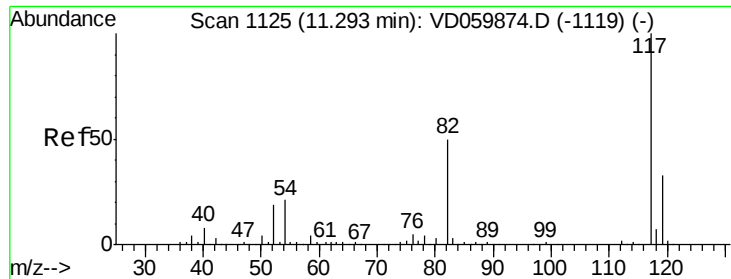
400000

200000

0

Time-->





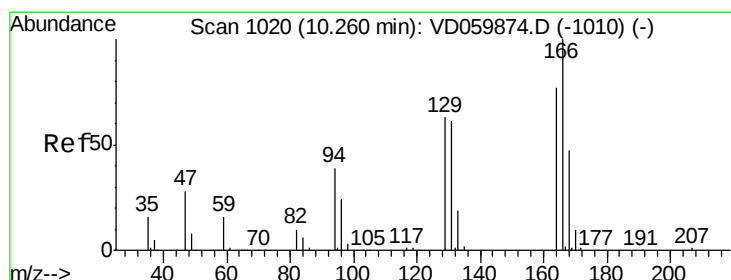
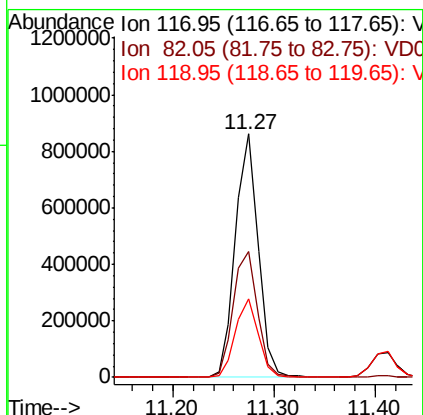
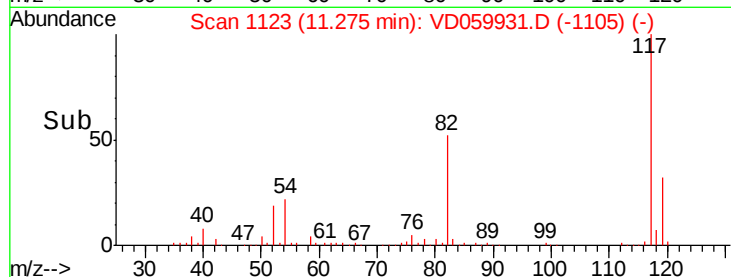
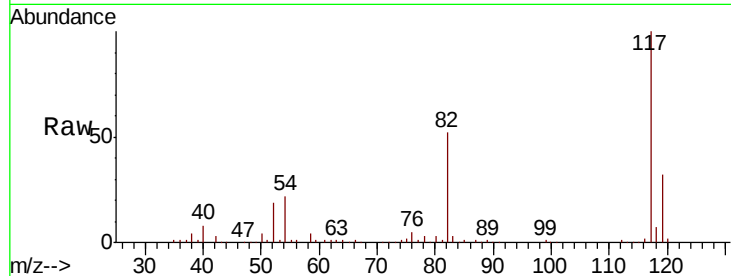
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.27 min Scan# 1123
Delta R.T. -0.02 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion:117 Resp: 1357806
Ion Ratio Lower Upper
117 100
82 51.9 40.1 60.1
119 32.4 26.7 40.1

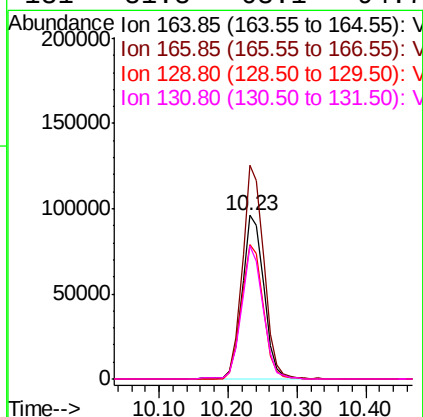
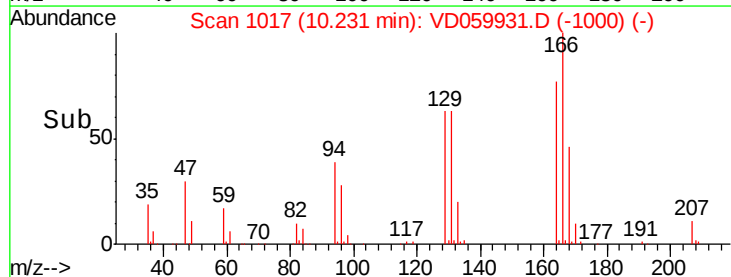
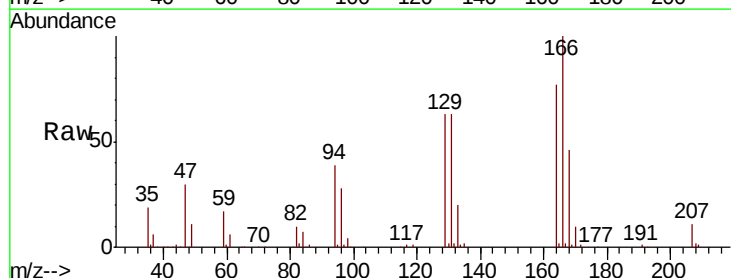
Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



#64
Tetrachloroethene
Concen: 19.98 ug/l
RT: 10.23 min Scan# 1017
Delta R.T. -0.03 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion:164 Resp: 209740
Ion Ratio Lower Upper
164 100
166 130.7 103.4 155.2
129 82.2 65.2 97.8
131 81.8 63.1 94.7





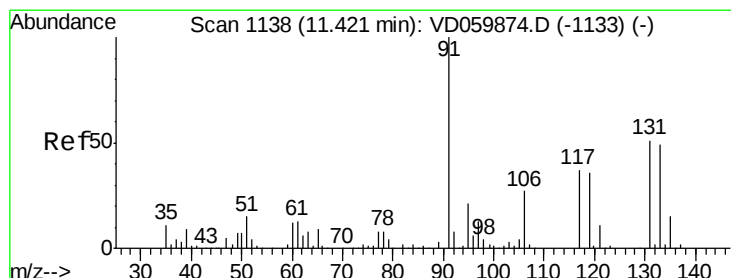
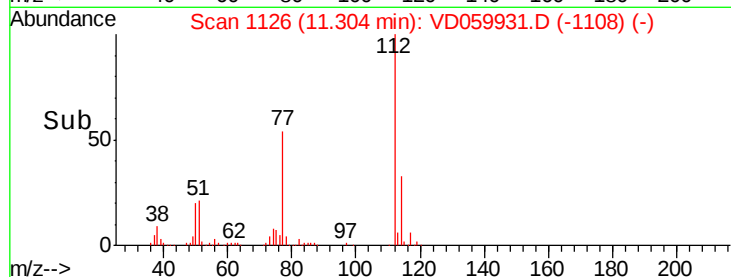
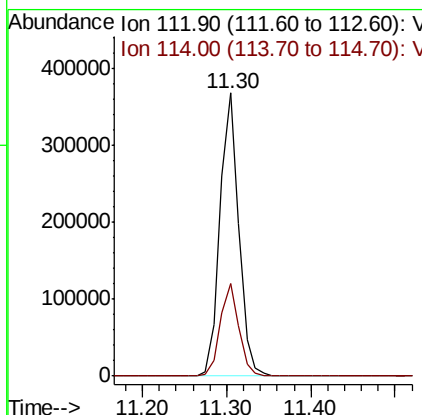
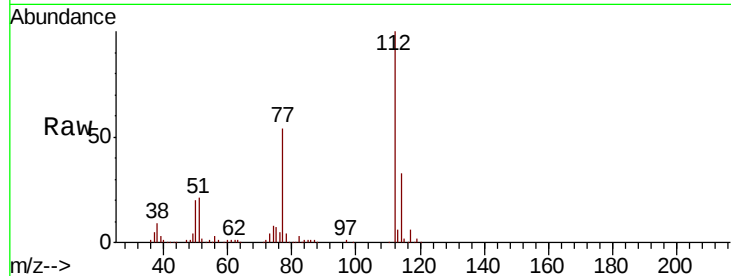
#65
Chlorobenzene
Concen: 21.16 ug/l
RT: 11.30 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.4	39.6

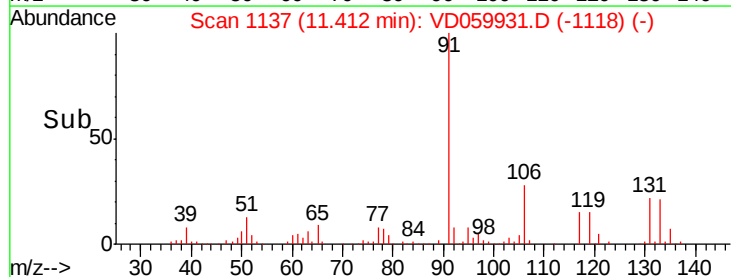
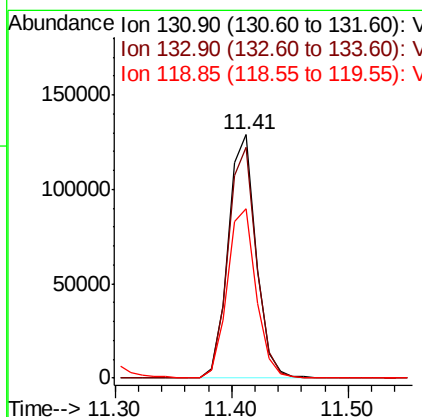
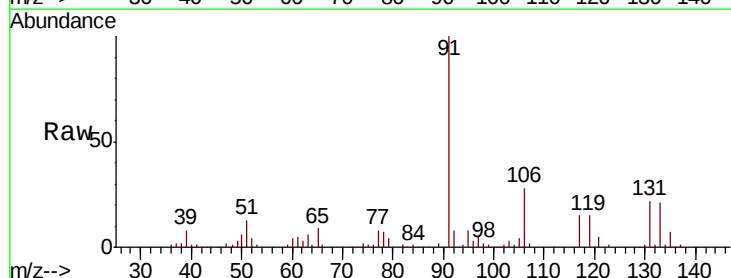
Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.66 ug/l
RT: 11.41 min Scan# 1137
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.6	48.3	144.8
119	69.7	35.4	106.3





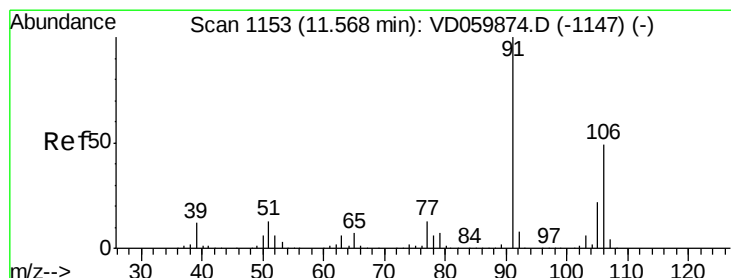
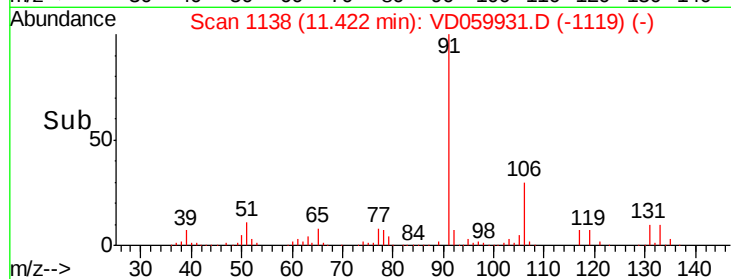
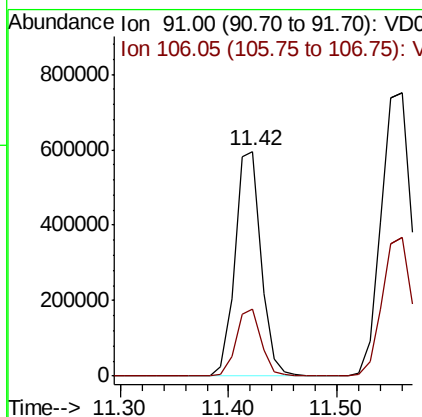
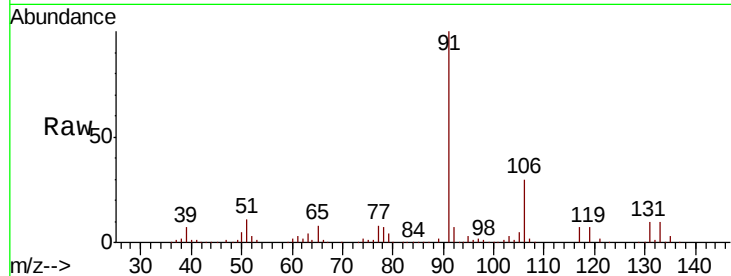
#67
Ethyl Benzene
Concen: 21.97 ug/l
RT: 11.42 min Scan# 1138
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion: 91 Resp: 997290
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.8

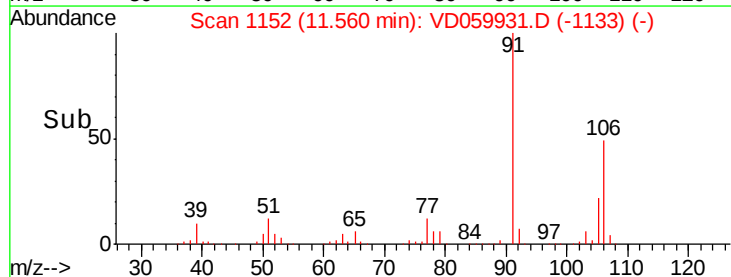
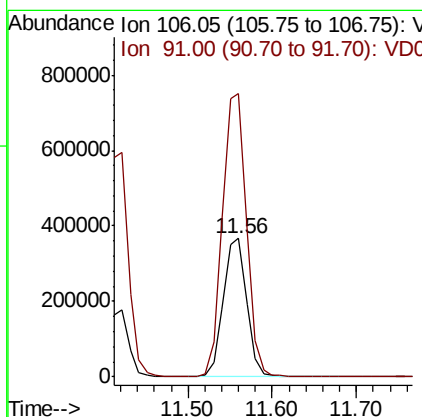
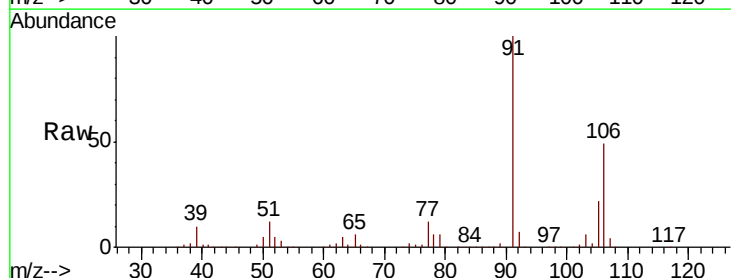
Manual Integrations
APPROVED

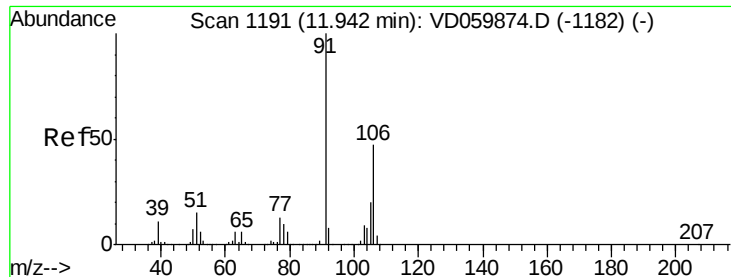
apatel
9/4/2018 10:49:26 AM



#68
m/p-Xylenes
Concen: 42.67 ug/l
RT: 11.56 min Scan# 1152
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion: 106 Resp: 705288
Ion Ratio Lower Upper
106 100
91 204.2 162.0 243.0





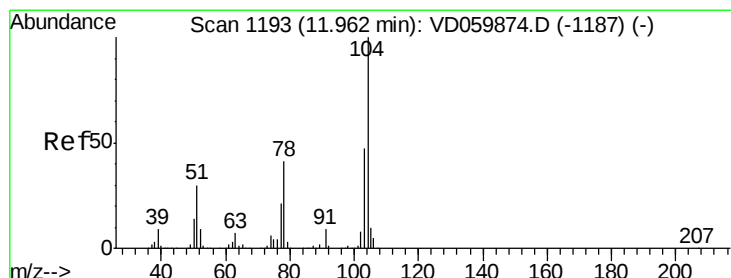
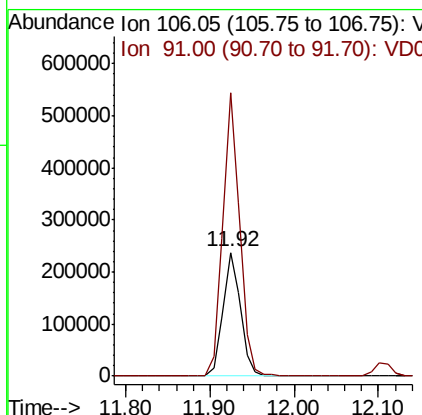
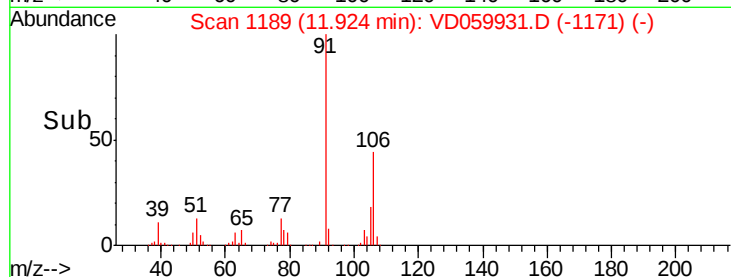
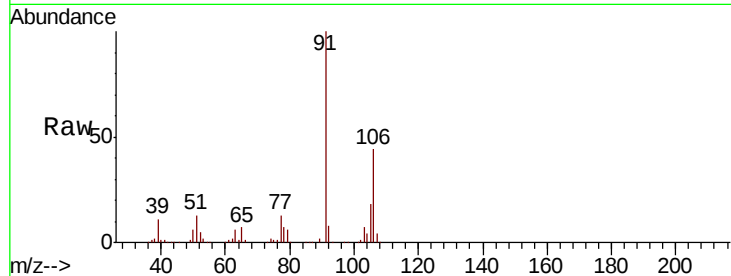
#69
o-Xylene
Concen: 21.12 ug/l
RT: 11.92 min Scan# 1189
Delta R.T. -0.02 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	341453		
91	228.6	107.3	322.0	

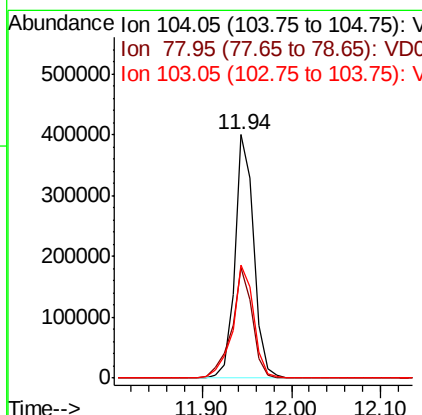
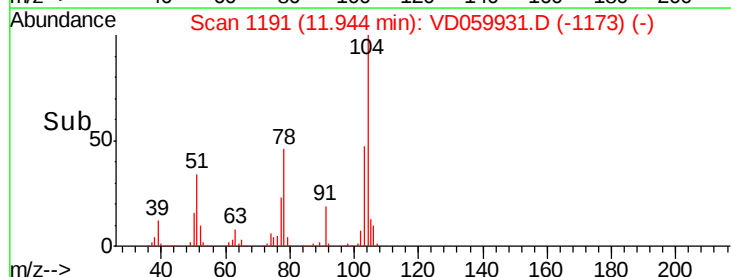
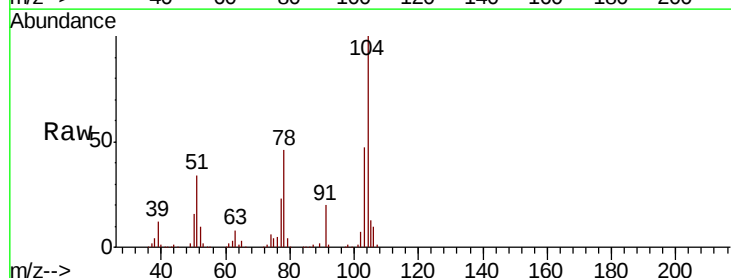
Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



#70
Styrene
Concen: 21.24 ug/l
RT: 11.94 min Scan# 1191
Delta R.T. -0.02 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	594477		
78	45.6	32.6	49.0	
103	46.7	37.7	56.5	





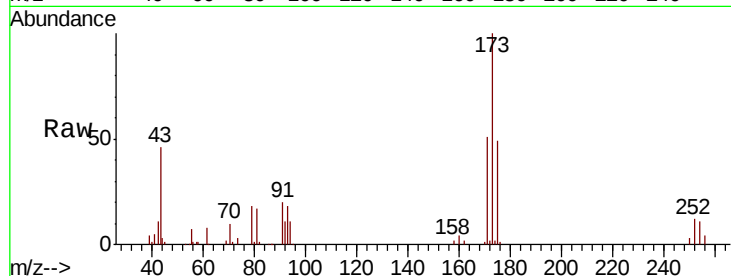
#71
Bromoform
Concen: 20.03 ug/l
RT: 12.11 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.3	73.0
254	10.7	7.0	10.6

Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM

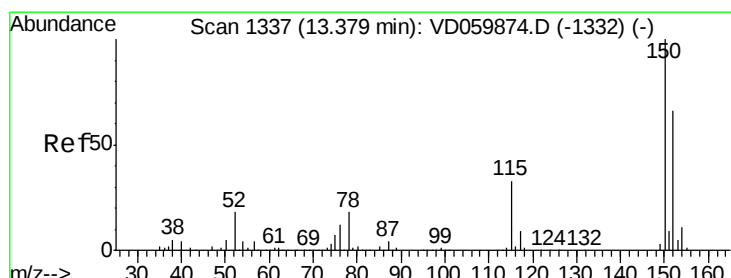
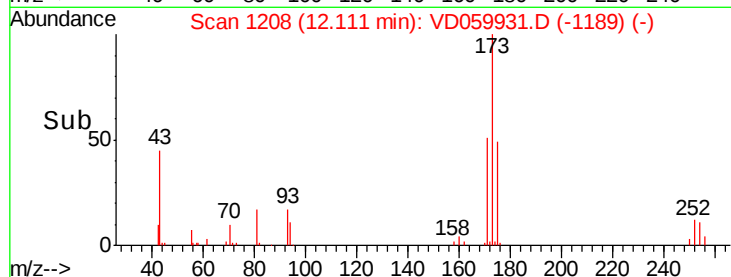
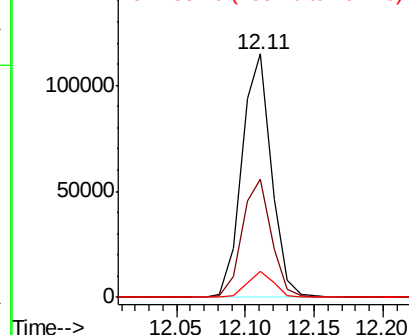


Abundance

Ion 172.80 (172.50 to 173.50): V

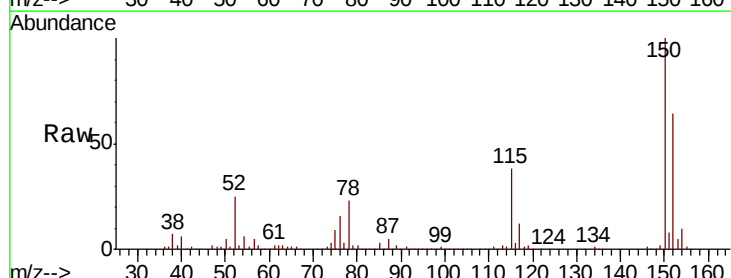
Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.36 min Scan# 1335
Delta R.T. -0.02 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.3	25.7	77.0
150	155.2	0.0	310.2

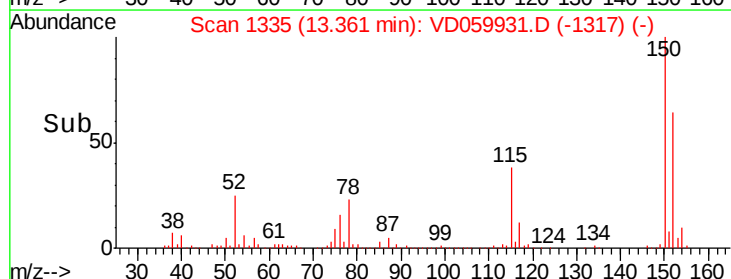
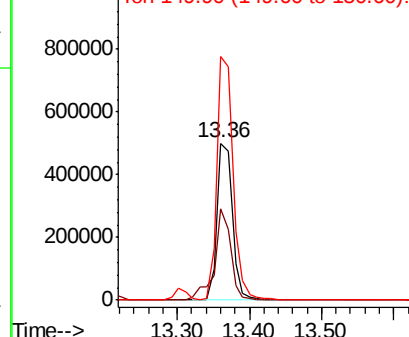


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.36 ug/l

RT: 12.27 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

Tot Ion: 105 Resp: 954542

Ion Ratio Lower Upper

105 100

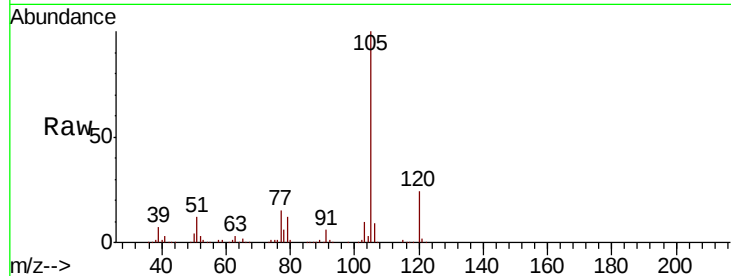
120 23.9 11.8 35.4

Manual Integrations

APPROVED

apatel

9/4/2018 10:49:26 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

800000

600000

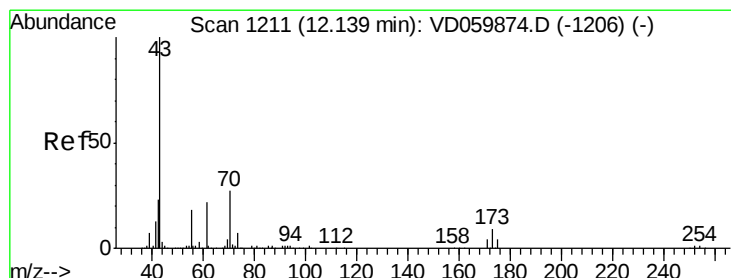
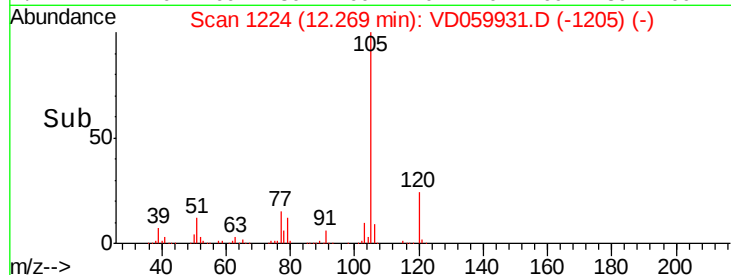
400000

200000

0

12.20 12.30 12.40

Time-->



#74

N-ethyl acetate

Concen: 19.86 ug/l

RT: 12.13 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Tgt Ion: 43 Resp: 407749

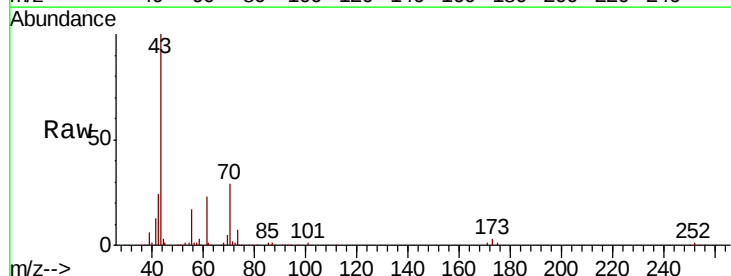
Ion Ratio Lower Upper

43 100

70 28.5 21.4 32.2

55 17.3 14.1 21.1

61 22.6 17.8 26.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

400000

300000

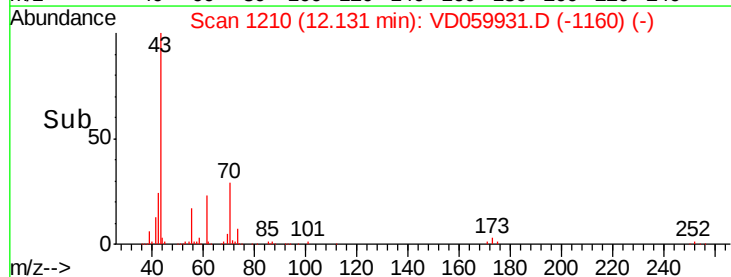
200000

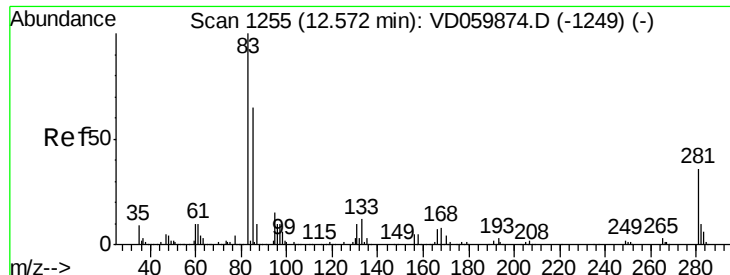
100000

0

12.10 12.20

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.99 ug/l

RT: 12.55 min Scan# 1253

Delta R.T. -0.02 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

Tot Ion: 83 Resp: 227619

Ion Ratio Lower Upper

83 100

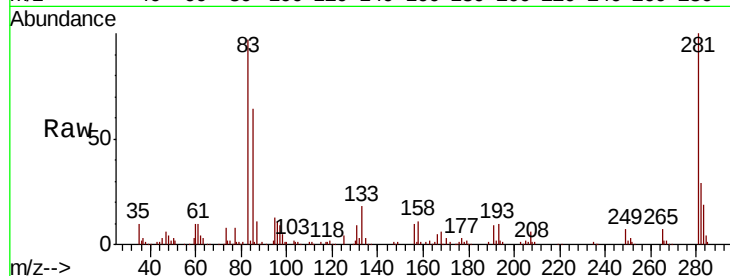
131 8.8 4.8 14.4

85 65.5 32.6 97.8

Manual Integrations
APPROVED

apatel

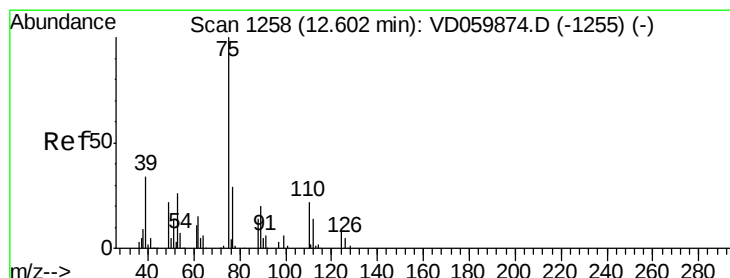
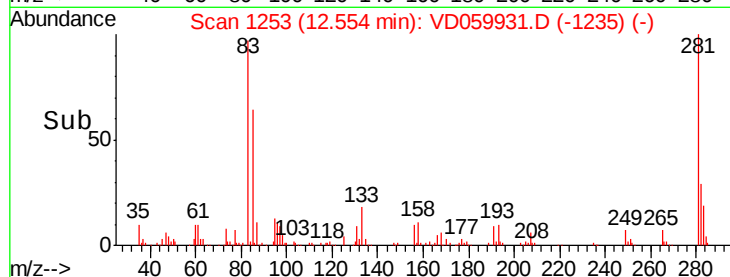
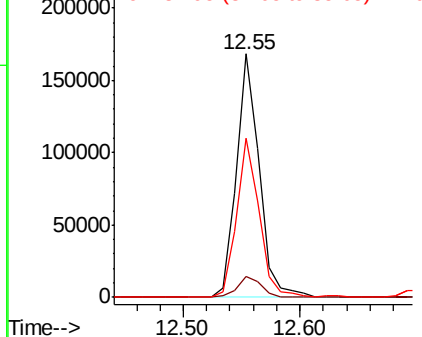
9/4/2018 10:49:26 AM



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.42 ug/l

RT: 12.59 min Scan# 1257

Delta R.T. -0.01 min

Lab File: VD059931.D

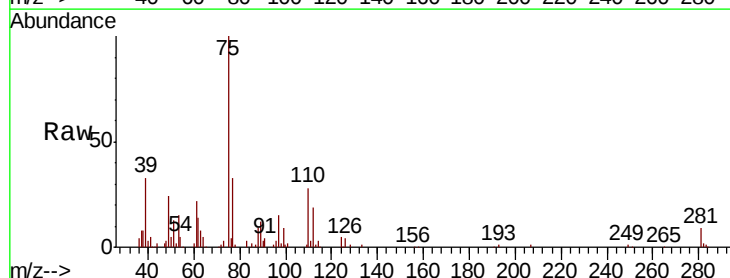
Acq: 31 Aug 2018 13:03

Tgt Ion: 75 Resp: 233174

Ion Ratio Lower Upper

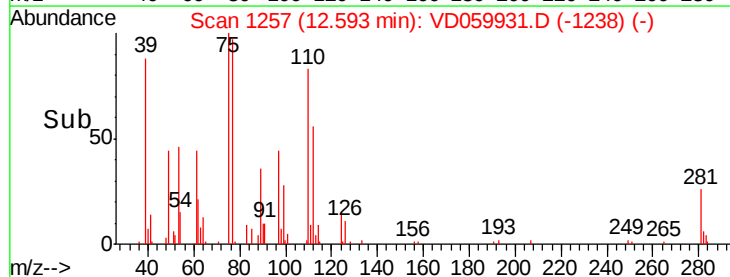
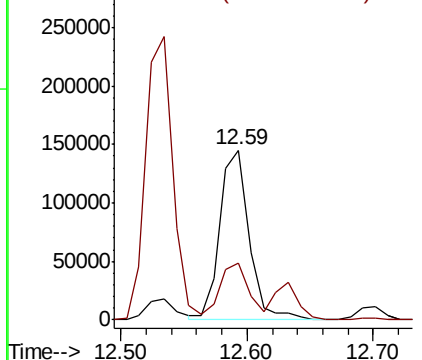
75 100

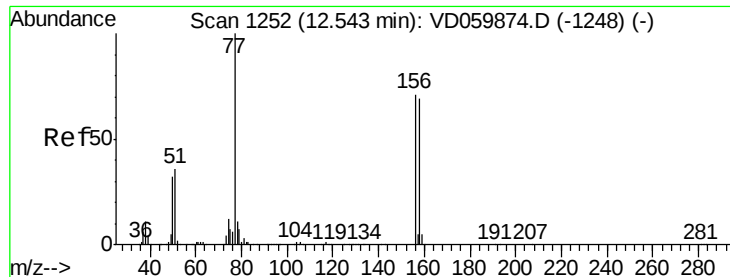
77 33.3 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





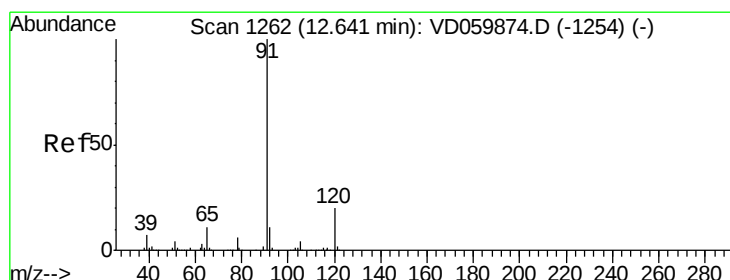
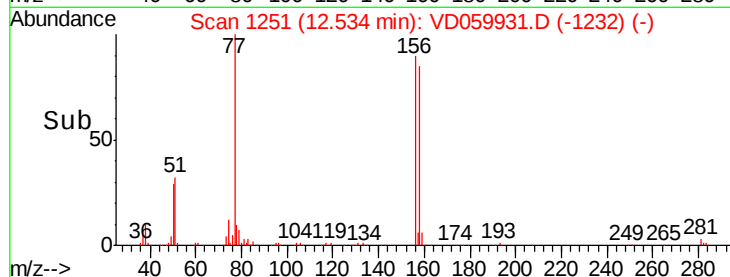
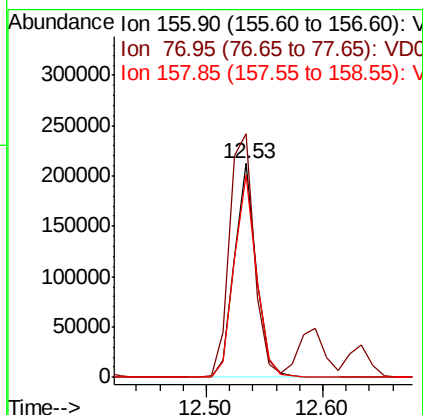
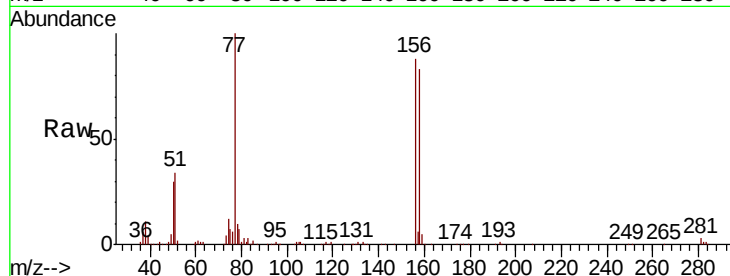
#77
Bromobenzene
Concen: 21.19 ug/l
RT: 12.53 min Scan# 1251
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	113.9	70.2	210.4
158	95.1	48.4	145.2

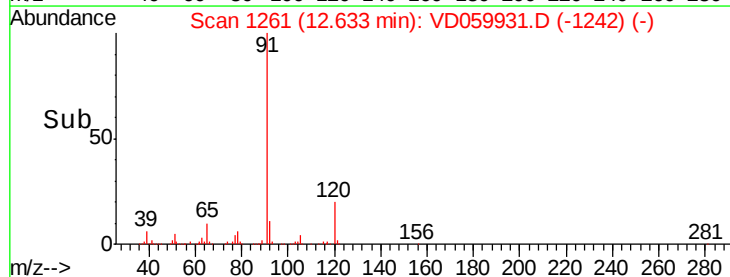
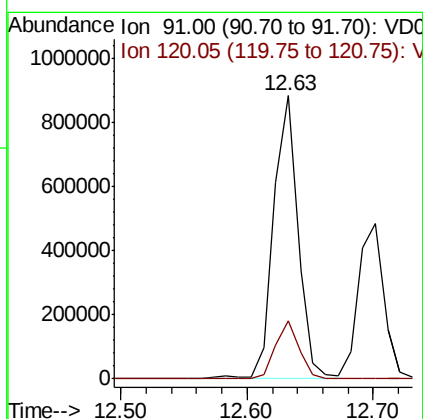
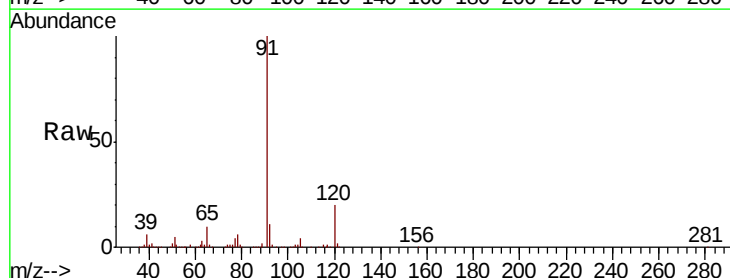
Manual Integrations
APPROVED

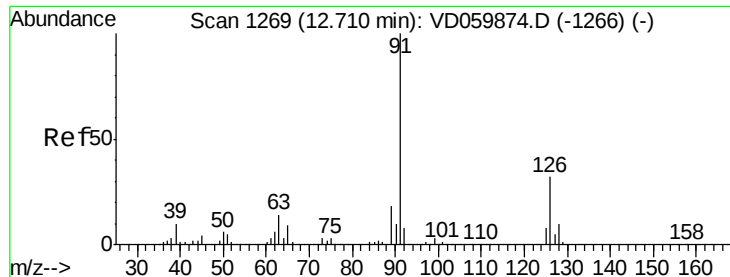
apatel
9/4/2018 10:49:26 AM



#78
n-propylbenzene
Concen: 20.11 ug/l
RT: 12.63 min Scan# 1261
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.4	10.1	30.3





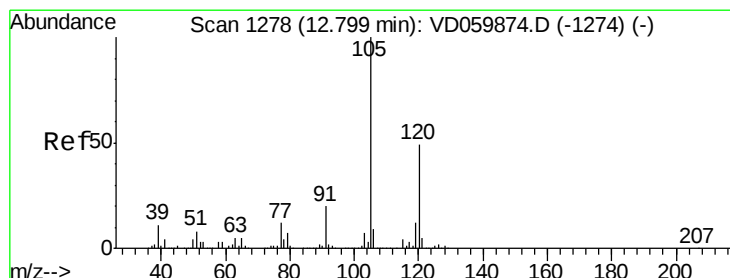
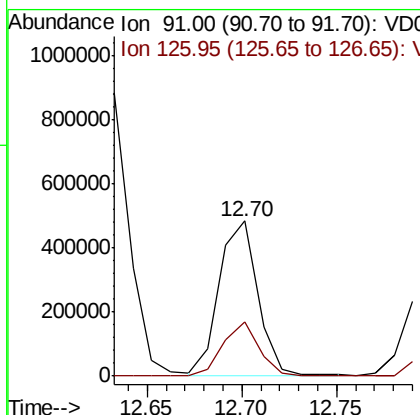
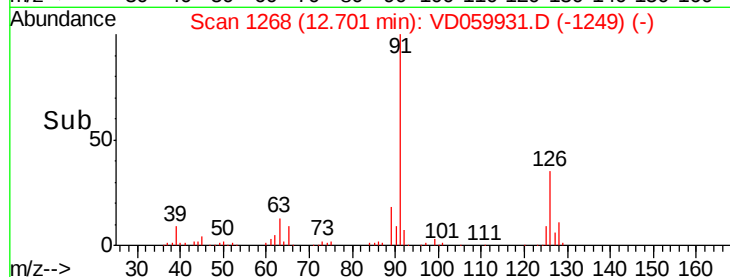
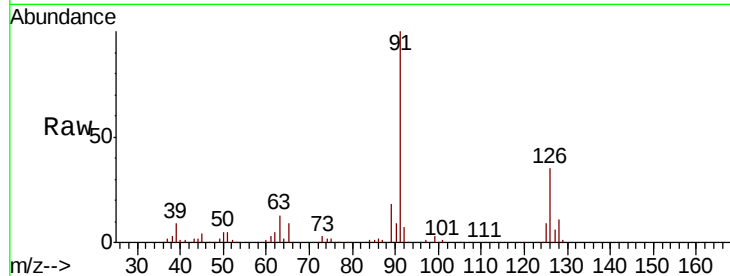
#79
2-Chlorotoluene
Concen: 20.37 ug/l
RT: 12.70 min Scan# 1268
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		684097		
126	34.8	16.1	48.2		

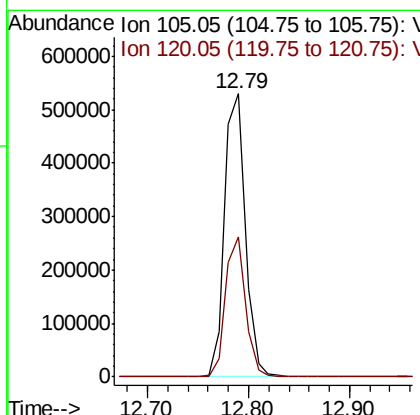
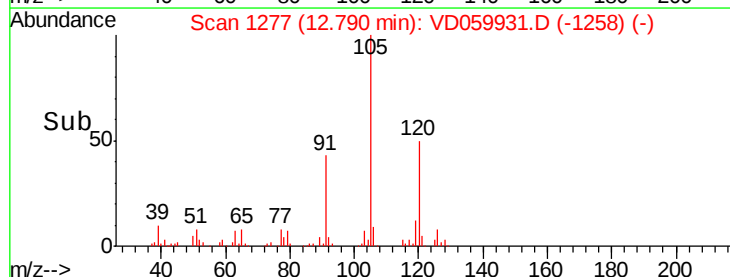
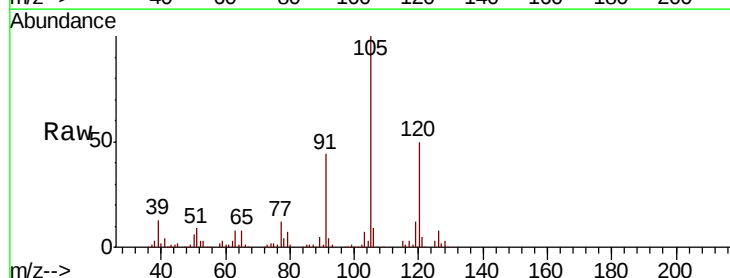
Manual Integrations
APPROVED

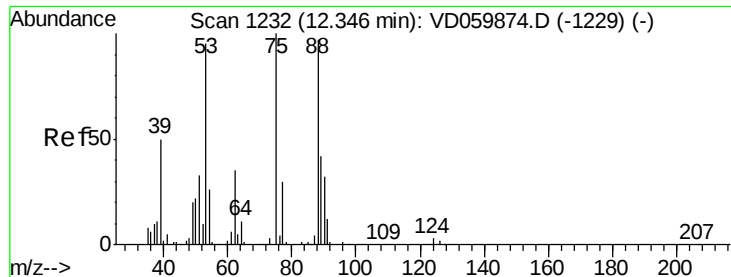
apatel
9/4/2018 10:49:26 AM



#80
1,3,5-Trimethylbenzene
Concen: 20.39 ug/l
RT: 12.79 min Scan# 1277
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		760060		
120	49.7	24.5	73.5		





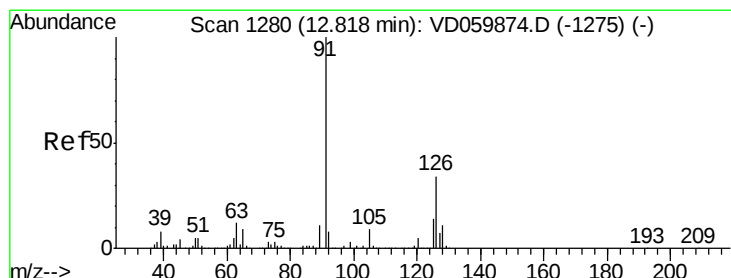
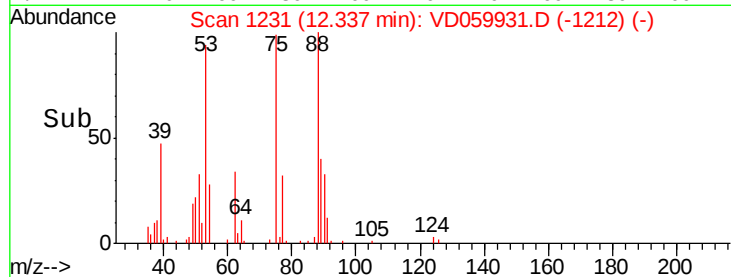
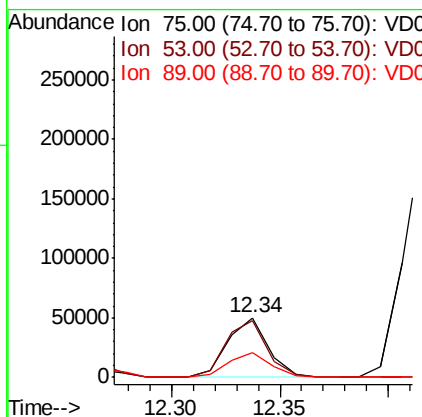
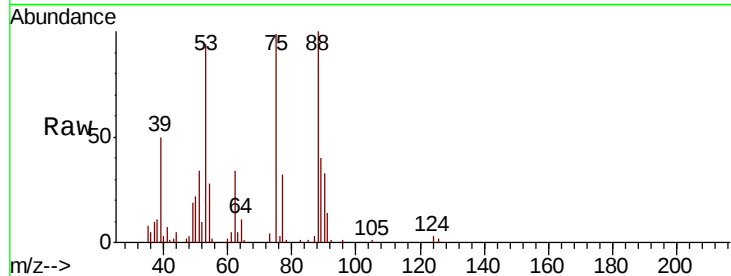
#81
trans-1,4-Dichloro-2-butene
Concen: 18.59 ug/l
RT: 12.34 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	94.7	75.8	113.6
89	41.0	33.6	50.4

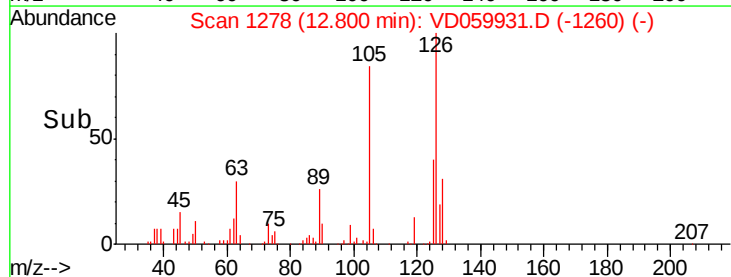
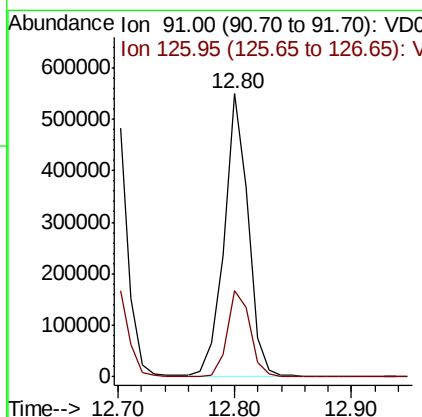
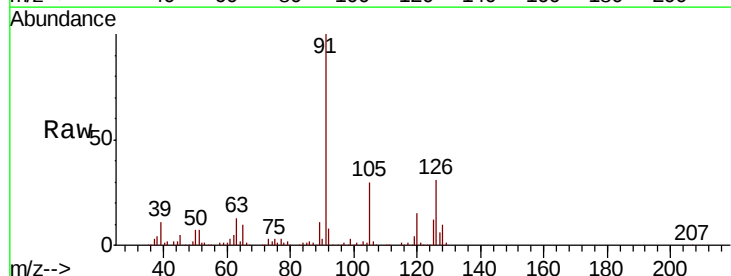
Manual Integrations
APPROVED

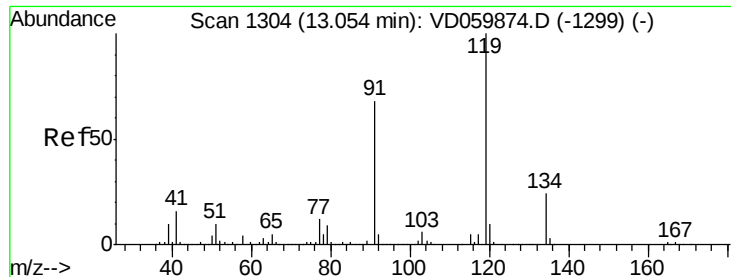
apatel
9/4/2018 10:49:26 AM



#82
4-Chlorotoluene
Concen: 20.29 ug/l
RT: 12.80 min Scan# 1278
Delta R.T. -0.02 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.7	17.1	51.2





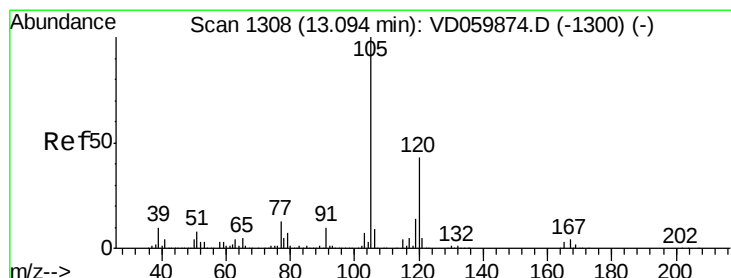
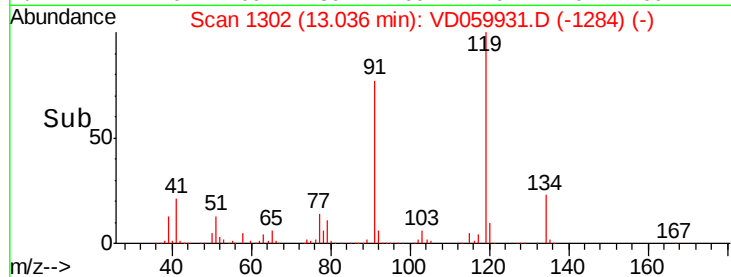
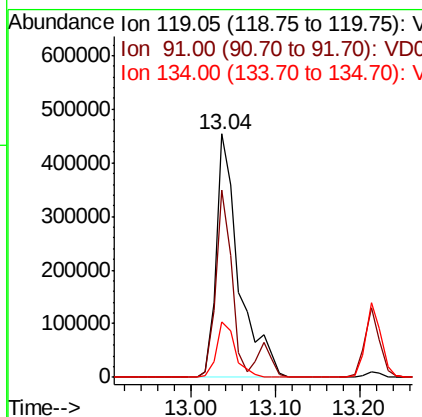
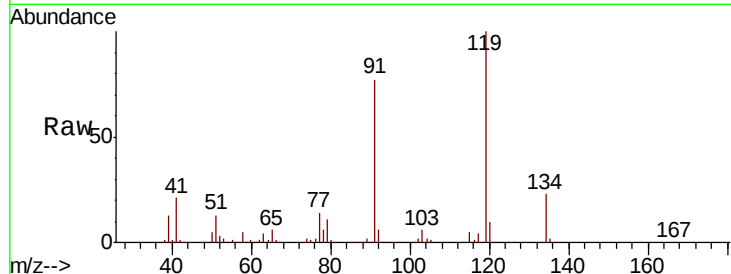
#83
tert-Butylbenzene
Concen: 20.08 ug/l
RT: 13.04 min Scan# 1302
Delta R.T. -0.02 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	852630		
91	77.1	34.3	102.9	
134	22.6	11.9	35.9	

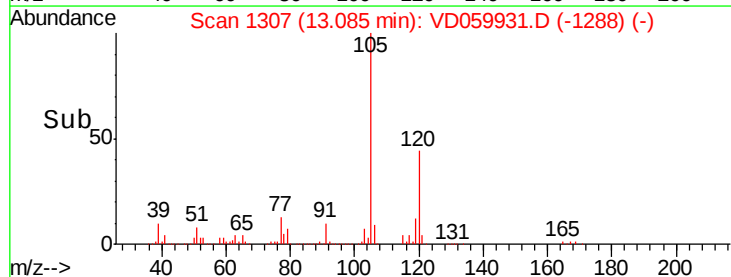
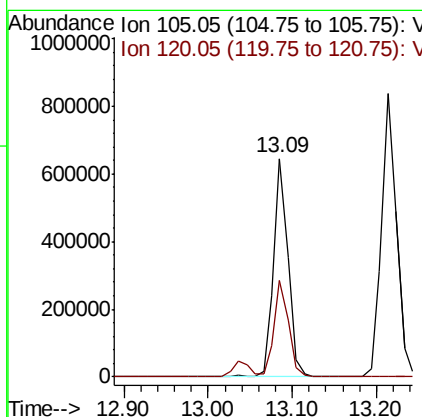
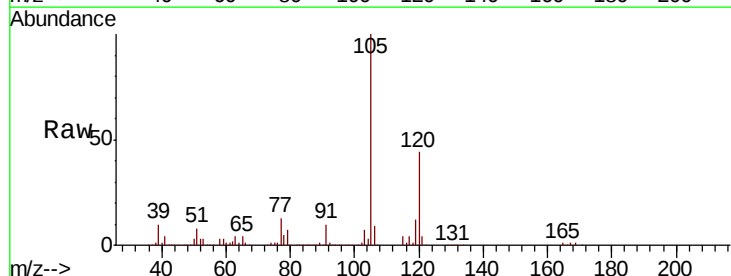
Manual Integrations
APPROVED

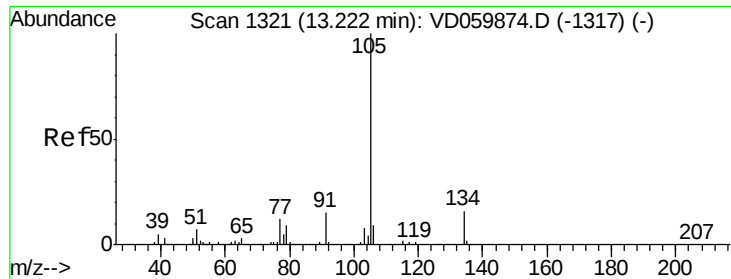
apatel
9/4/2018 10:49:26 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.25 ug/l
RT: 13.09 min Scan# 1307
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	786772		
120	44.2	21.8	65.3	





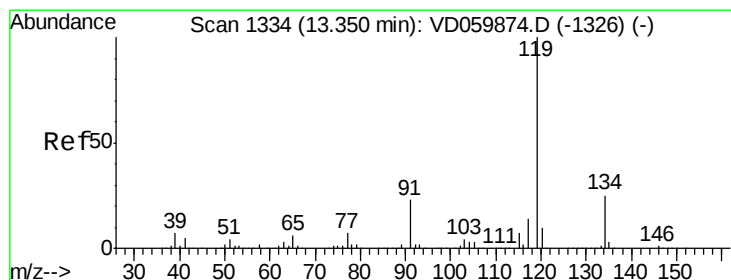
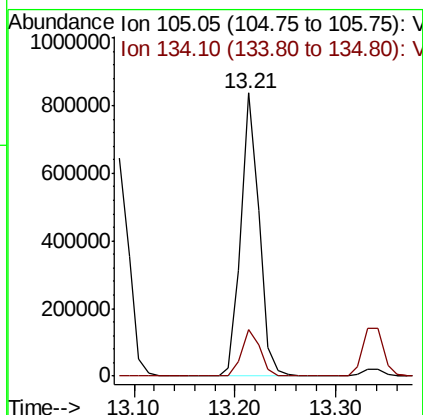
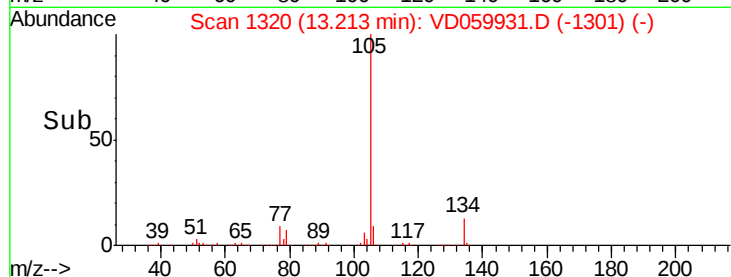
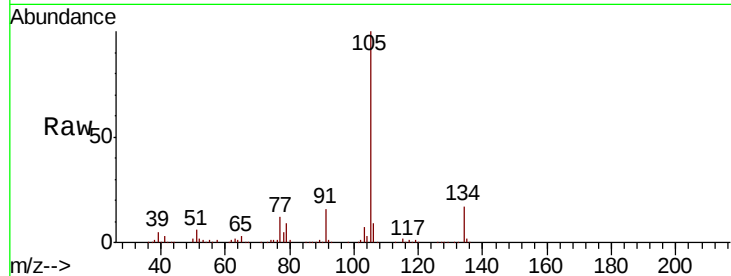
#85
 sec-Butylbenzene
 Concen: 20.94 ug/l
 RT: 13.21 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0831SBS01

Tot Ion:105 Resp: 1045813
 Ion Ratio Lower Upper
 105 100
 134 16.7 8.2 24.4

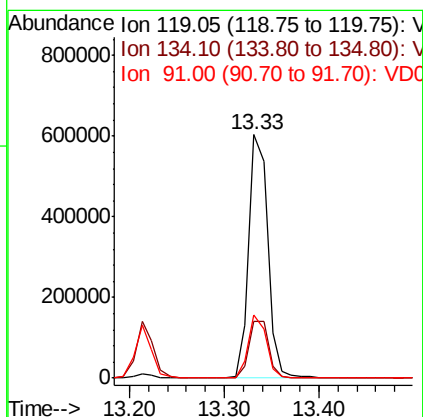
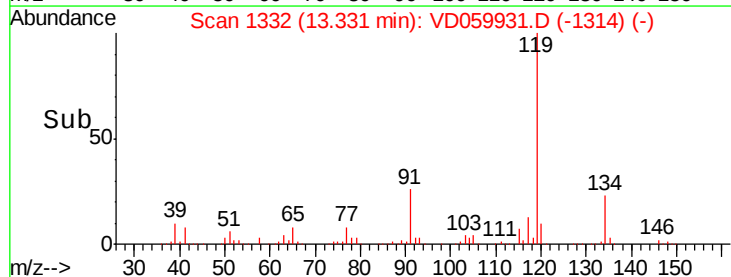
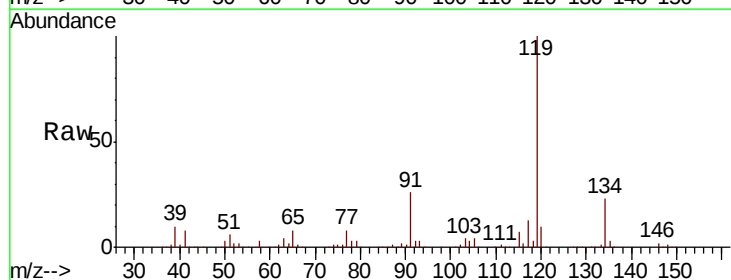
Manual Integrations
 APPROVED

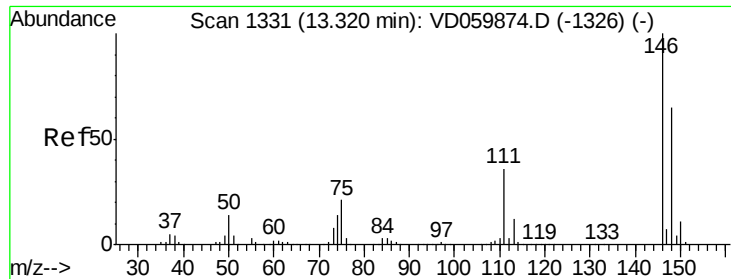
apatel
 9/4/2018 10:49:26 AM



#86
 p-Isopropyltoluene
 Concen: 20.62 ug/l
 RT: 13.33 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Tgt Ion:119 Resp: 837661
 Ion Ratio Lower Upper
 119 100
 134 23.4 12.7 38.1
 91 26.2 11.7 35.0





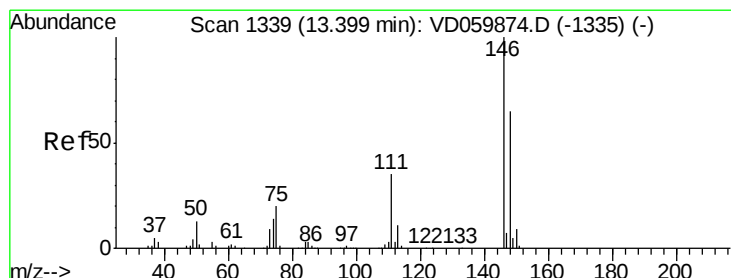
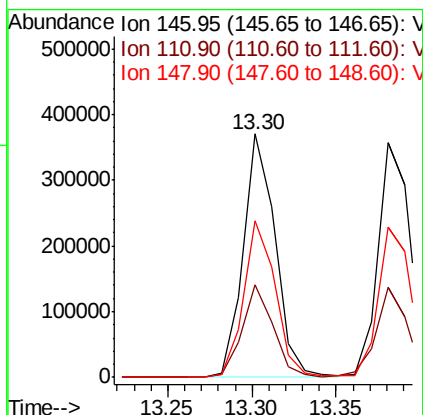
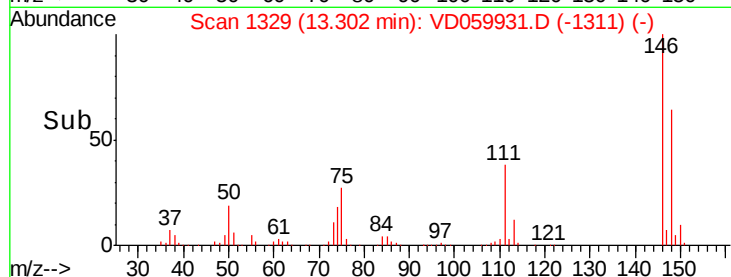
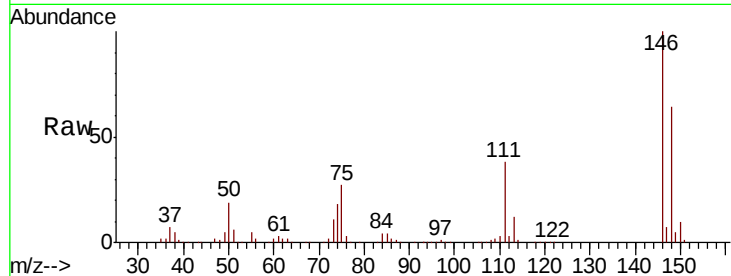
#87
 1,3-Dichlorobenzene
 Concen: 21.03 ug/l
 RT: 13.30 min Scan# 1329
 Delta R.T. -0.02 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	17.9	53.7
148	64.4	32.4	97.0

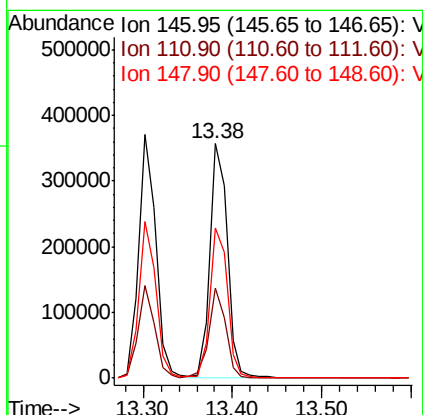
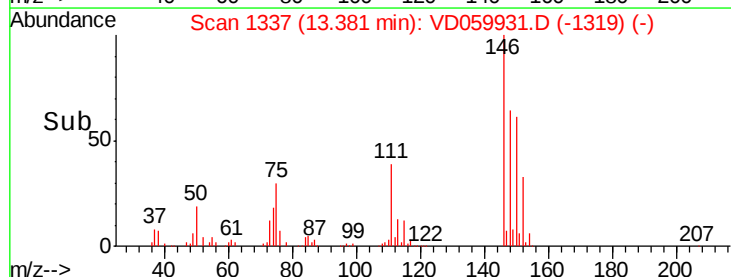
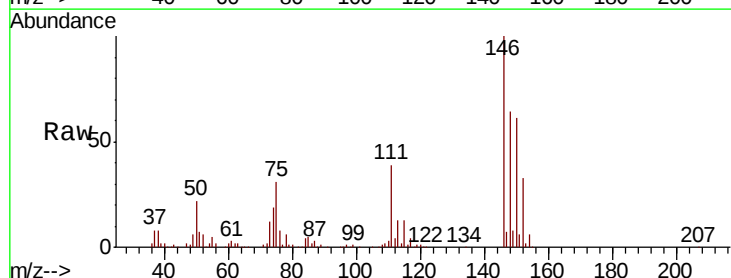
Manual Integrations
 APPROVED

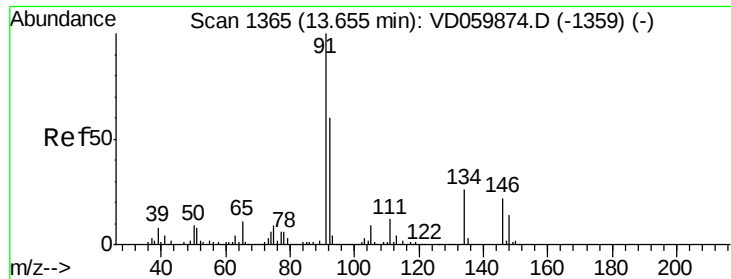
apatel
 9/4/2018 10:49:26 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.85 ug/l
 RT: 13.38 min Scan# 1337
 Delta R.T. -0.02 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	17.5	52.6
148	63.9	32.5	97.5





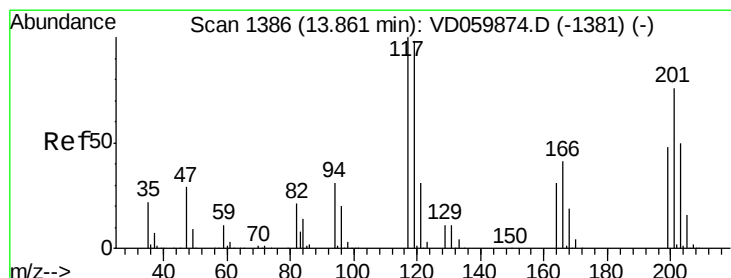
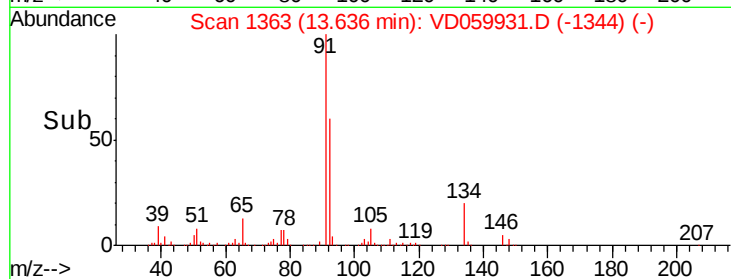
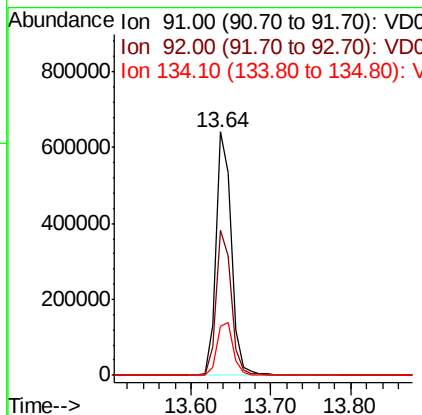
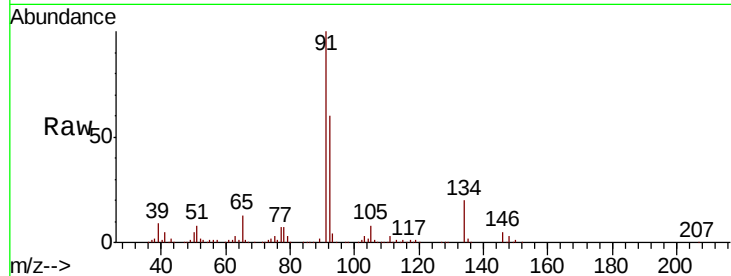
#89
n-Butylbenzene
Concen: 19.95 ug/l
RT: 13.64 min Scan# 1363
Delta R.T. -0.02 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.5	30.0	90.1
134	19.9	12.8	38.4

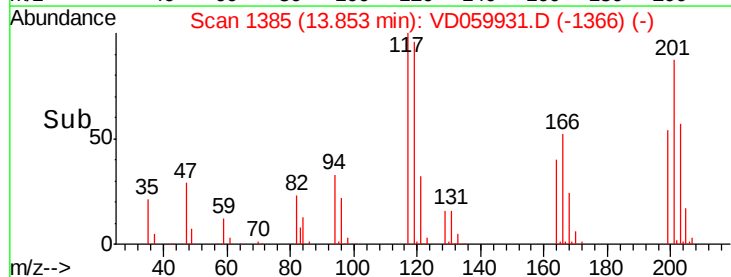
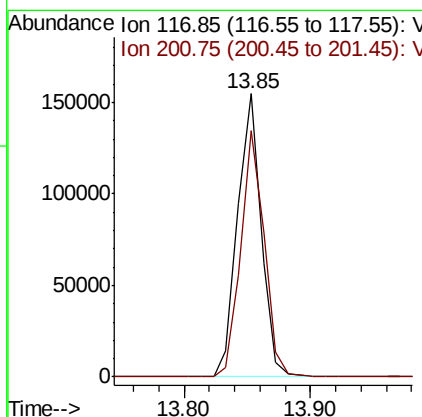
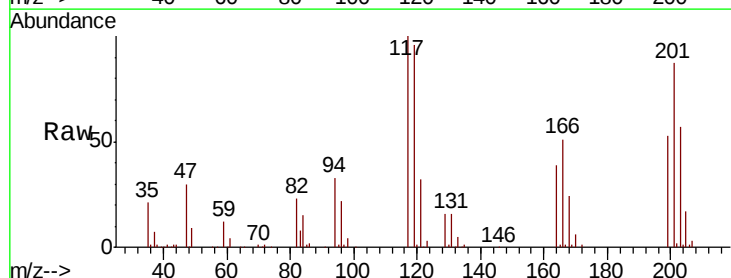
Manual Integrations
APPROVED

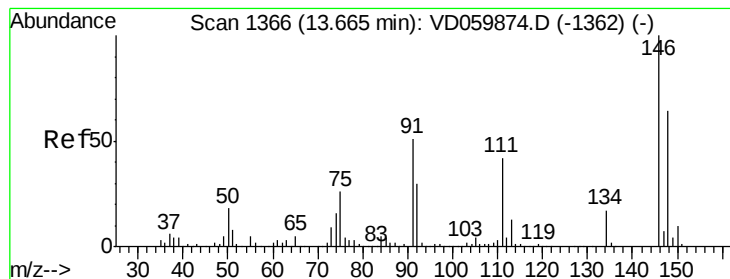
apatel
9/4/2018 10:49:26 AM



#90
Hexachloroethane
Concen: 18.27 ug/l
RT: 13.85 min Scan# 1385
Delta R.T. -0.01 min
Lab File: VD059931.D
Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.0	38.1	114.5





#91

1,2-Dichlorobenzene

Concen: 22.43 ug/l

RT: 13.66 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

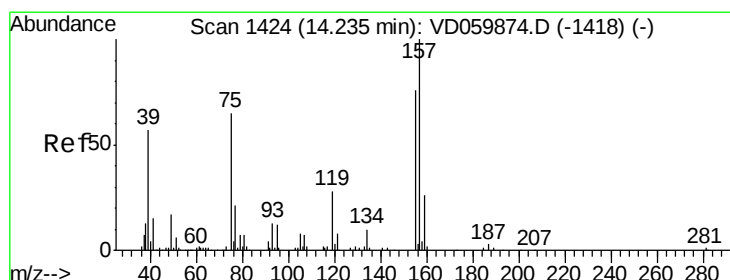
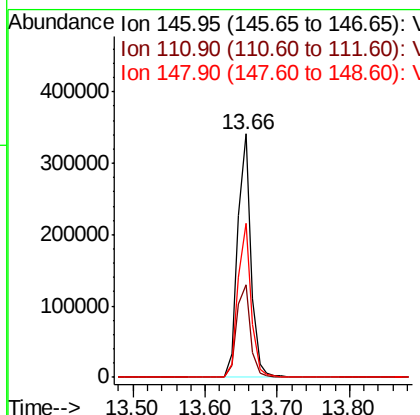
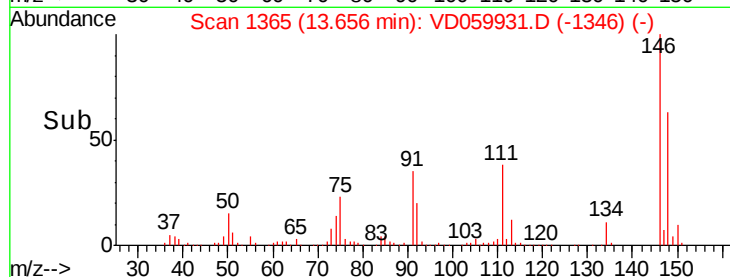
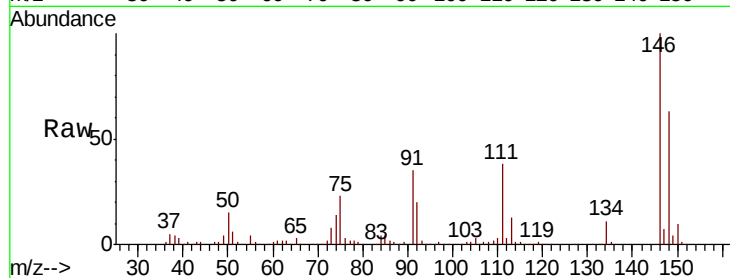
ClientSampleId :

VD0831SBS01

Tot Ion:	146	Resp:	442586
Ion Ratio	Lower	Upper	
146	100		
111	37.9	21.1	63.1
148	63.2	32.2	96.6

Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.77 ug/l

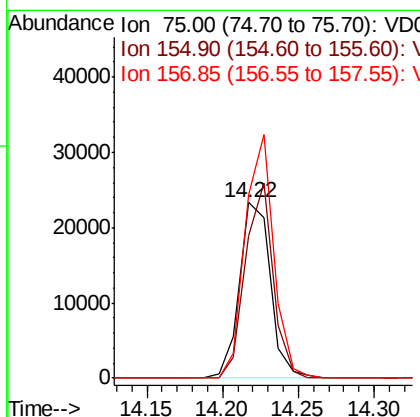
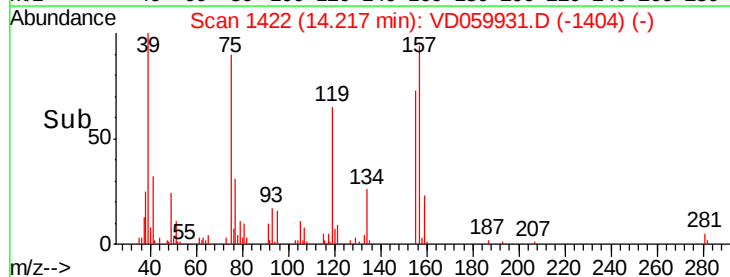
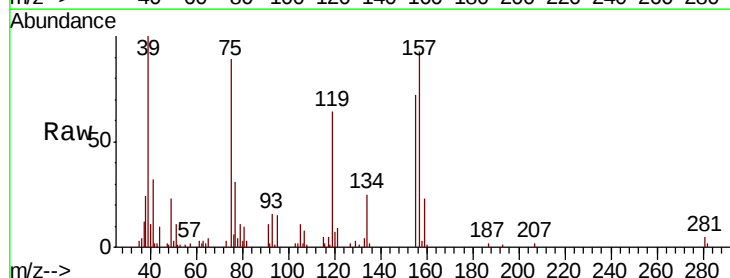
RT: 14.22 min Scan# 1422

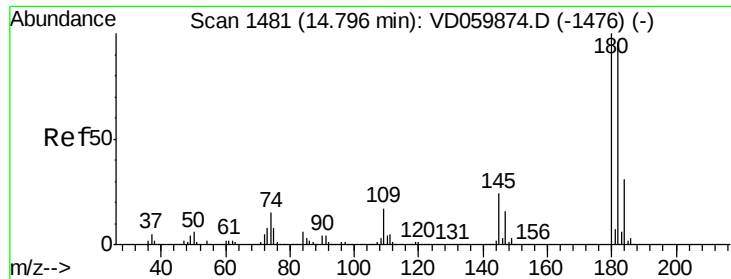
Delta R.T. -0.02 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Tgt Ion:	75	Resp:	32965
Ion Ratio	Lower	Upper	
75	100		
155	81.3	58.2	174.6
157	104.9	76.8	230.4





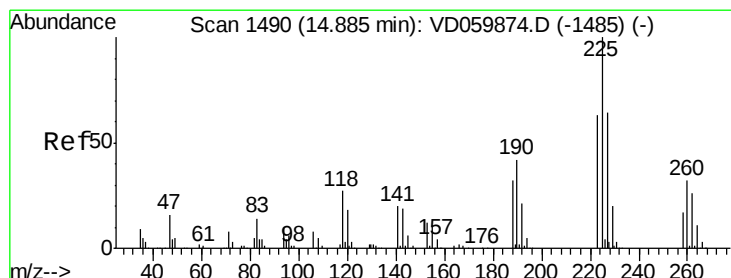
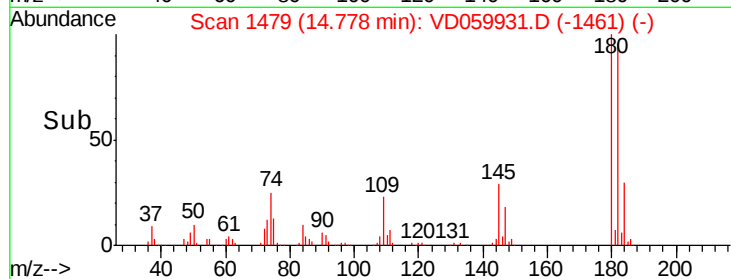
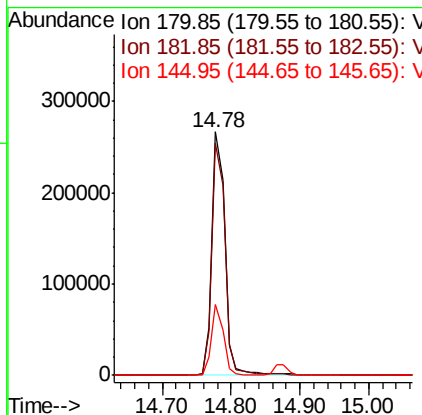
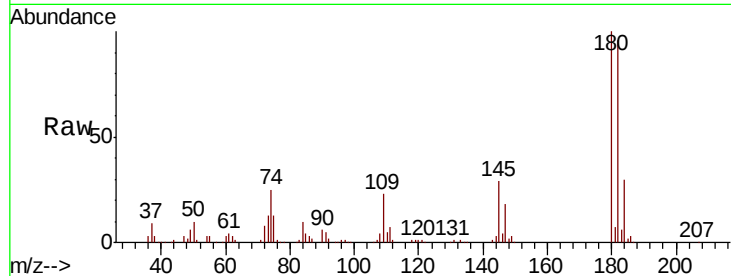
#93
 1,2,4-Trichlorobenzene
 Concen: 20.95 ug/l
 RT: 14.78 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.6	47.9	143.7	
145	29.2	12.2	36.4	

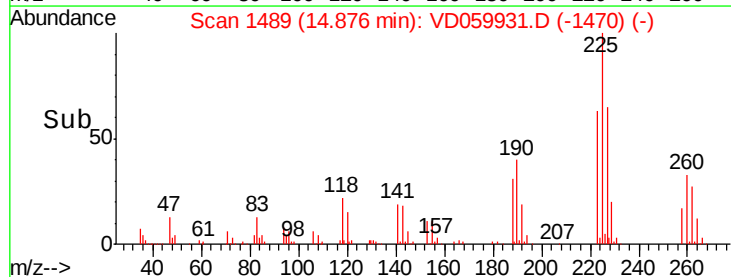
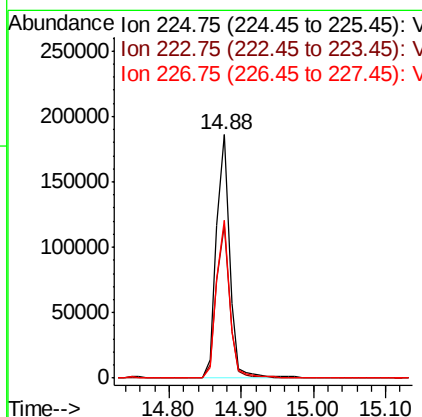
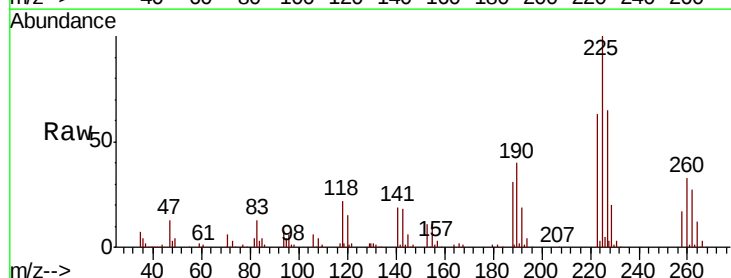
Manual Integrations
 APPROVED

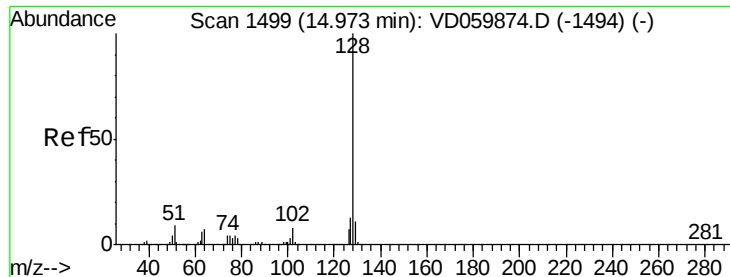
apatel
 9/4/2018 10:49:26 AM



#94
 Hexachlorobutadiene
 Concen: 21.30 ug/l
 RT: 14.88 min Scan# 1489
 Delta R.T. -0.01 min
 Lab File: VD059931.D
 Acq: 31 Aug 2018 13:03

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.0	31.6	94.8	
227	64.6	32.0	96.0	





#95

Naphthalene

Concen: 20.63 ug/l

RT: 14.96 min Scan# 1498

Delta R.T. -0.01 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Instrument :

MSVOA_D

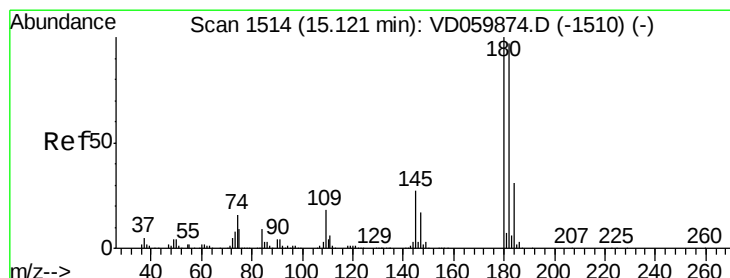
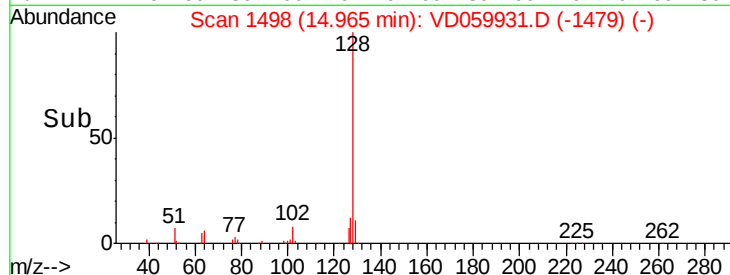
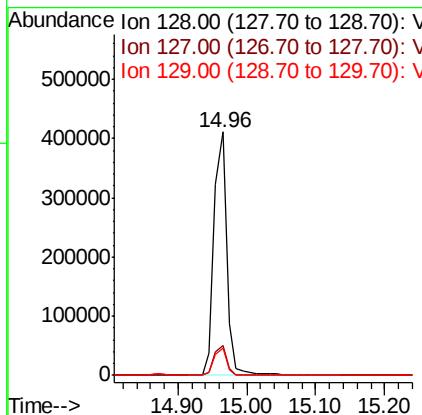
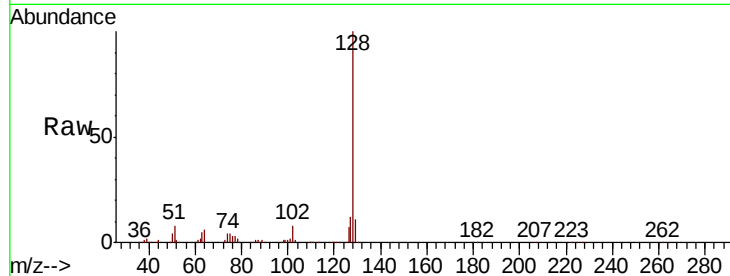
ClientSampleId :

VD0831SBS01

Tot Ion:	128	Resp:	532739
Ion Ratio	Lower	Upper	
128	100		
127	12.3	10.0	15.0
129	11.0	8.6	13.0

Manual Integrations
APPROVED

apatel
9/4/2018 10:49:26 AM



#96

1,2,3-Trichlorobenzene

Concen: 21.02 ug/l

RT: 15.11 min Scan# 1513

Delta R.T. -0.01 min

Lab File: VD059931.D

Acq: 31 Aug 2018 13:03

Tgt Ion:	180	Resp:	303829
Ion Ratio	Lower	Upper	
180	100		
182	97.7	48.6	145.8
145	26.2	13.6	40.8

