

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020619\
 Data File : VU029358.D
 Acq On : 06 Feb 2019 11:54
 Operator : JC/SP
 Sample : MDL04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

sam
 2/8/2019 2:27:26 PM

Quant Time: Feb 08 12:30:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	49967	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	19056	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	19571	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.21	85	4624	0.248	ug/l	93
3) Chloromethane	1.33	50	4057	0.238	ug/l	99
4) Vinyl Chloride	1.40	62	4686	0.235	ug/l	97
5) Bromomethane	1.63	94	3592	0.323	ug/l	85
6) Chloroethane	1.70	64	2604	0.223	ug/l	99
7) Trichlorofluoromethane	1.88	101	6920	0.248	ug/l	96
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	3805	0.258	ug/l #	83
9) 1,1-Dichloroethene	2.28	96	3856	0.268	ug/l	59
10) Iodomethane	2.41	142	3067	0.438	ug/l	91
11) Allyl Chloride	2.59	41	5441	0.225	ug/l	95
12) Acrylonitrile	2.94	53	1793	0.555	ug/l #	59
13) Acetone	2.32	43	5984	1.922	ug/l #	84
14) Carbon Disulfide	2.48	76	12726	0.250	ug/l #	94
15) Methylene Chloride	2.70	84	6044	0.346	ug/l #	80
16) trans-1,2-Dichloroethene	2.98	96	4055	0.252	ug/l #	71
17) 1,1-Dichloroethane	3.44	63	5845	0.229	ug/l #	89
18) 2-Butanone	4.30	43	2805	0.806	ug/l	97
19) Cyclohexane	4.99	56	5819m	0.246	ug/l	
20) Methylcyclohexane	6.41	83	6672m	0.268	ug/l	
21) 2,2-Dichloropropane	4.22	77	7025m	0.297	ug/l	
22) cis-1,2-Dichloroethene	4.23	96	4594	0.303	ug/l	69
23) Diethyl Ether	2.10	59	3462	0.299	ug/l	89
24) tert-Butyl Alcohol	2.83	59	4325	3.595	ug/l #	90
25) Methyl tert-Butyl Ether	3.00	73	9675	0.238	ug/l #	59
26) Bromochloromethane	4.55	128	1557	0.232	ug/l	78
27) Chloroform	4.67	83	6498	0.262	ug/l	99
28) 1,1,1-Trichloroethane	4.91	97	6044	0.263	ug/l	89
29) 1,1-Dichloropropene	5.13	75	4820	0.241	ug/l #	82
30) Carbon Tetrachloride	5.13	117	4872	0.234	ug/l	96
31) Isopropyl Ether	3.58	45	8717	0.226	ug/l	92
32) Ethyl-t-butyl ether	4.07	59	9555	0.247	ug/l	93
33) Tert-Amyl methyl ether	5.58	73	8671	0.248	ug/l #	94
35) Benzene	5.39	78	13140	0.238	ug/l	97
36) 1,2-Dichloroethane	5.41	62	3460	0.207	ug/l	99
37) Trichloroethene	6.18	130	3725	0.235	ug/l #	75
38) 1,2-Dichloropropane	6.43	63	3463	0.241	ug/l	93
41) Tetrahydrofuran	4.67	42	878	0.372	ug/l #	52
42) 1-Chlorobutane	5.06	56	5849	0.218	ug/l	96
43) Dibromomethane	6.56	93	1771	0.231	ug/l #	79
44) Bromodichloromethane	6.76	83	4624	0.237	ug/l	96
45) 4-Methyl-2-Pentanone	7.47	43	9339	1.040	ug/l #	85

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020619\
 Data File : VU029358.D
 Acq On : 06 Feb 2019 11:54
 Operator : JC/SP
 Sample : MDL04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

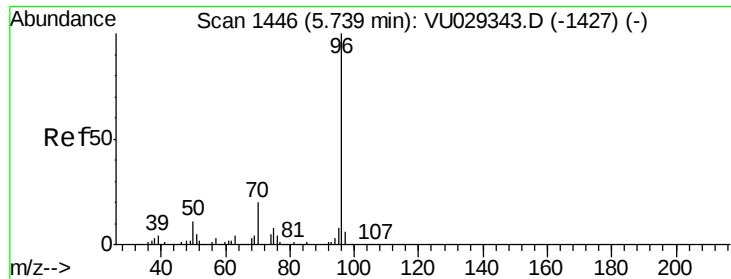
Manual Integrations
 APPROVED

sam
 2/8/2019 2:27:26 PM

Quant Time: Feb 08 12:30:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) t-1,4-Dichloro-2-butene	10.53	75	1431m	0.327	ug/l	
47) Methyl methacrylate	6.64	69	2532	0.376	ug/l #	74
48) Ethyl methacrylate	8.03	69	3155	0.218	ug/l	71
49) Toluene	7.64	92	7798	0.220	ug/l	99
50) t-1,3-Dichloropropene	7.89	75	4191	0.219	ug/l	94
51) cis-1,3-Dichloropropene	7.27	75	4902	0.216	ug/l	89
52) 1,1,2-Trichloroethane	8.07	97	2197	0.217	ug/l	91
53) 1,3-Dichloropropane	8.24	76	4064	0.228	ug/l	94
54) 2-Hexanone	8.37	43	6297	1.000	ug/l	78
55) Dibromochloromethane	8.48	129	3561	0.247	ug/l	91
56) 1,2-Dibromoethane	8.59	107	2139	0.206	ug/l	93
58) Tetrachloroethene	8.22	164	3819	0.259	ug/l #	83
59) Chlorobenzene	9.12	112	9386	0.236	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.21	131	3544	0.241	ug/l	93
61) Pentachloroethane	11.10	117	2467	0.216	ug/l	82
62) Hexachloroethane	12.14	117	2796	0.224	ug/l	85
63) Ethyl Benzene	9.25	91	16241	0.235	ug/l	93
64) m/p-Xylenes	9.38	106	12064	0.449	ug/l	90
65) o-Xylene	9.78	106	6277	0.238	ug/l	83
66) Styrene	9.79	104	9821	0.223	ug/l	92
67) Bromoform	9.96	173	2132	0.238	ug/l #	99
69) Isopropylbenzene	10.16	105	15817	0.224	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.46	83	3498	0.269	ug/l	96
71) 1,2,3-Trichloropropane	10.49	75	2568m	0.288	ug/l	
72) Bromobenzene	10.45	156	4000	0.234	ug/l	87
73) n-propylbenzene	10.59	120	4311	0.219	ug/l	87
74) 2-Chlorotoluene	10.67	126	3955	0.236	ug/l	80
75) 1,3,5-Trimethylbenzene	10.77	105	13379	0.220	ug/l	94
76) 4-Chlorotoluene	10.77	126	4168	0.240	ug/l	74
77) tert-Butylbenzene	11.10	119	13875	0.231	ug/l	92
78) 1,2,4-Trimethylbenzene	11.15	105	14869	0.242	ug/l	100
79) sec-Butylbenzene	11.32	105	17926	0.228	ug/l	97
81) p-Isopropyltoluene	11.48	119	15396	0.231	ug/l	95
82) 1,3-Dichlorobenzene	11.42	146	7973	0.238	ug/l	97
83) 1,4-Dichlorobenzene	11.51	146	8359	0.250	ug/l	96
84) n-Butylbenzene	11.89	91	13834	0.226	ug/l	95
85) 1,2-Dichlorobenzene	11.88	146	7408	0.234	ug/l	97
86) 1,2-Dibromo-3-Chloropropan	12.66	75	458m	0.189	ug/l	
87) 1,2,4-Trichlorobenzene	13.51	180	5091	0.229	ug/l	88
88) Hexachlorobutadiene	13.69	225	3413	0.265	ug/l	97
89) Naphthalene	13.75	128	8450	0.224	ug/l #	94
90) 1,2,3-Trichlorobenzene	13.99	180	4411	0.217	ug/l #	80

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

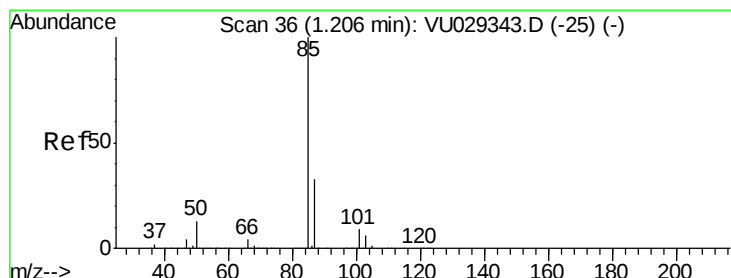
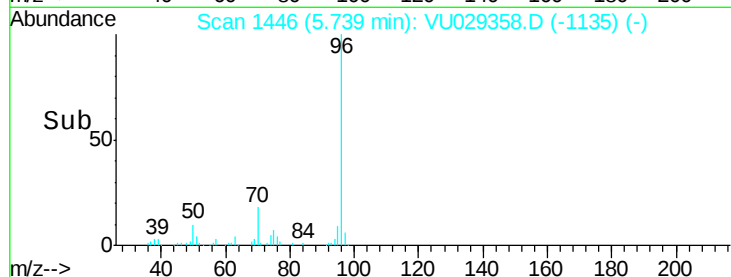
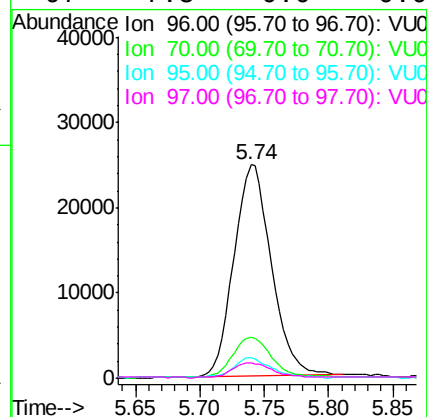
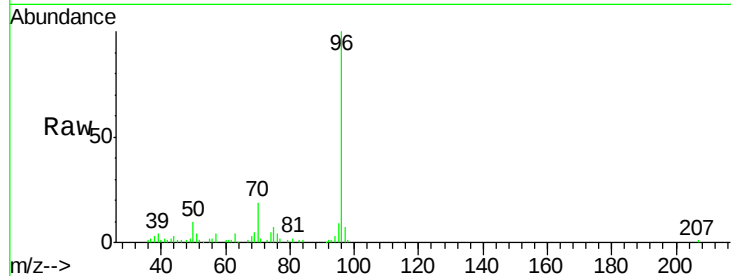
ClientSampleId :

MDL04

Tot Ion:	96	Resp:	49967
Ion	Ratio	Lower	Upper
96	100		
70	18.5	16.2	24.2
95	9.6	7.4	11.2
97	7.8	0.0	0.0#

Manual Integrations
APPROVED

sam
2/8/2019 2:27:26 PM



#2

Dichlorodifluoromethane

Concen: 0.248 ug/l

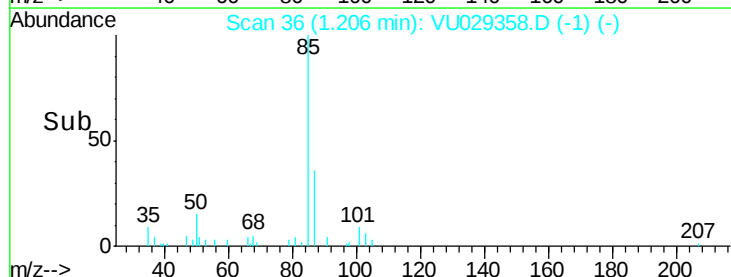
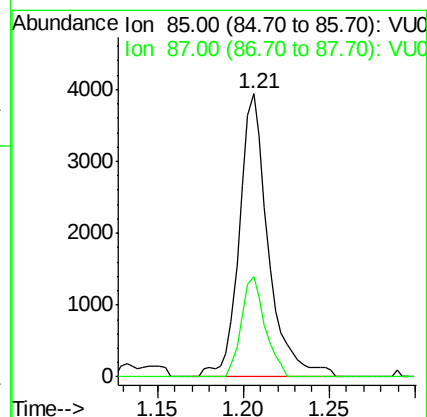
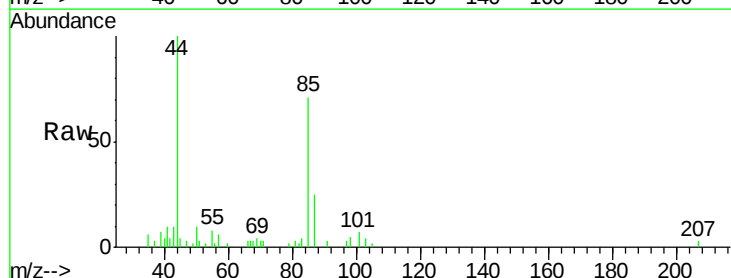
RT: 1.21 min Scan# 36

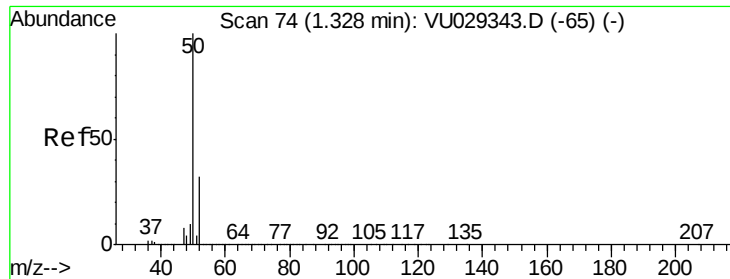
Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Tgt Ion:	85	Resp:	4624
Ion	Ratio	Lower	Upper
85	100		
87	35.5	15.9	47.6





#3

Chloromethane

Concen: 0.238 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 50 Resp: 4057

Ion Ratio Lower Upper

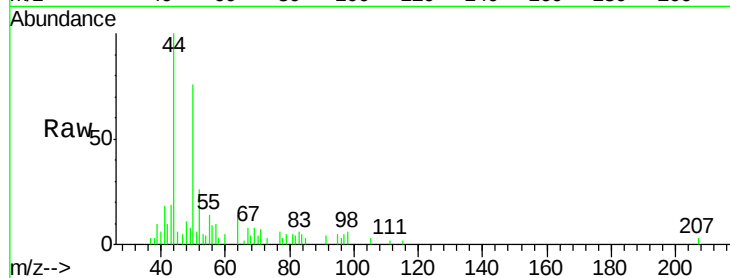
50 100

52 34.5 27.3 40.9

Manual Integrations
APPROVED

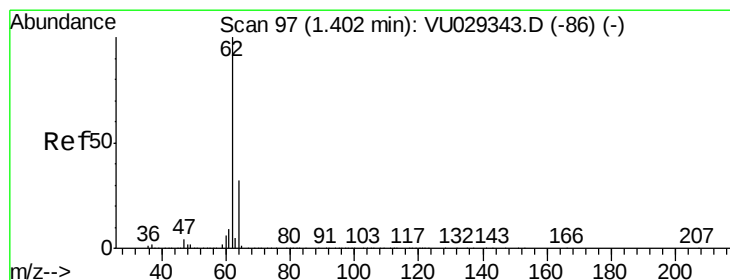
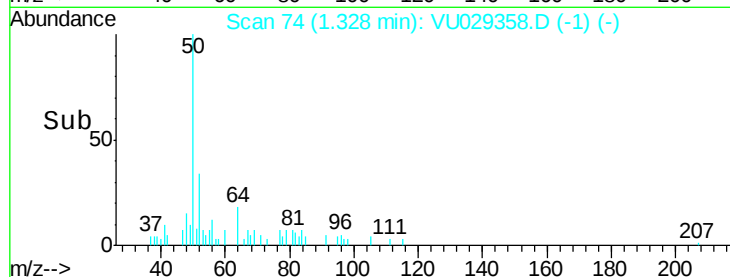
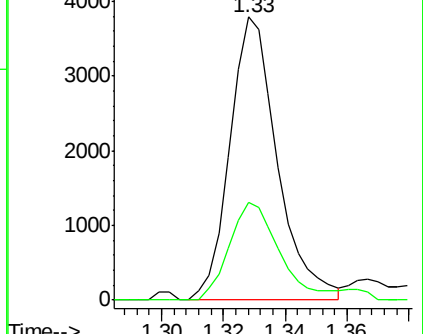
sam

2/8/2019 2:27:26 PM



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#4

Vinyl Chloride

Concen: 0.235 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029358.D

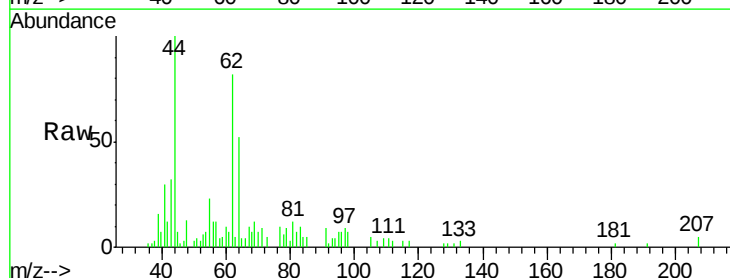
Acq: 06 Feb 2019 11:54

Tgt Ion: 62 Resp: 4686

Ion Ratio Lower Upper

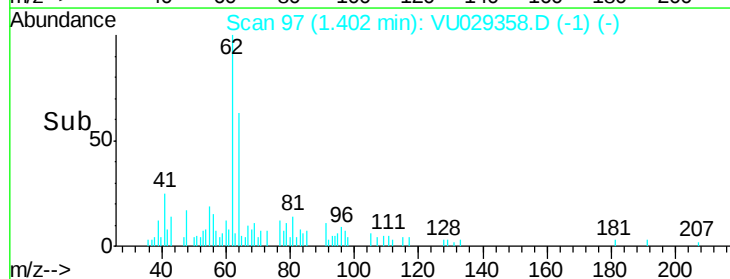
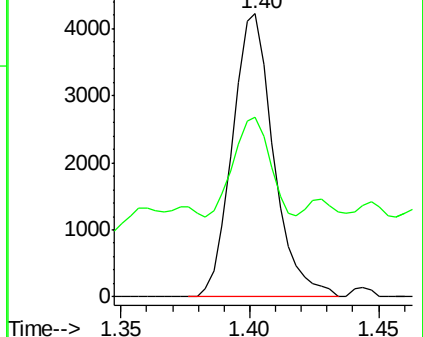
62 100

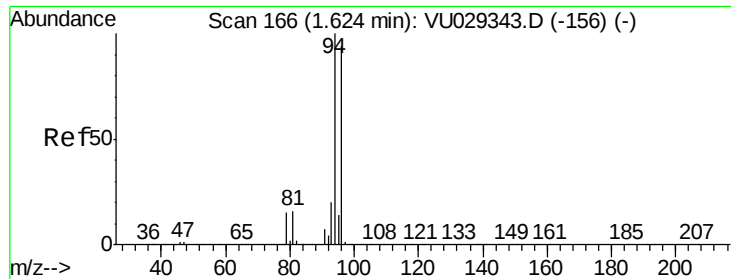
64 33.1 25.2 37.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#5

Bromomethane

Concen: 0.323 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 94 Resp: 3592

Ion Ratio Lower Upper

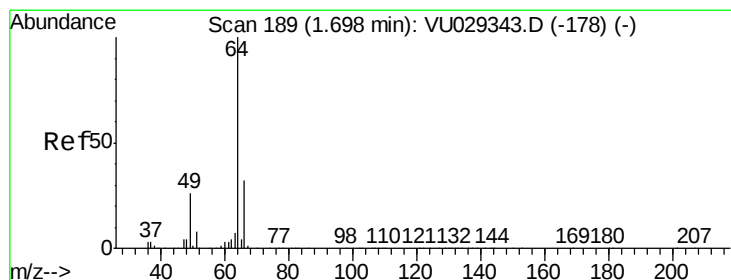
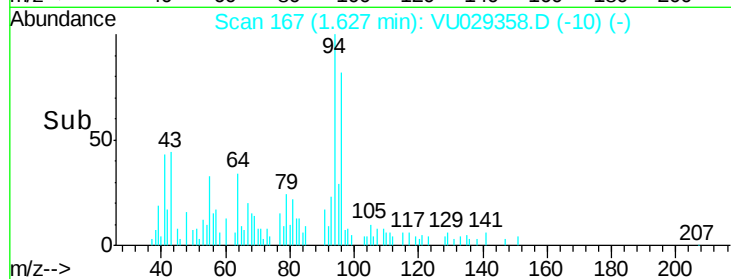
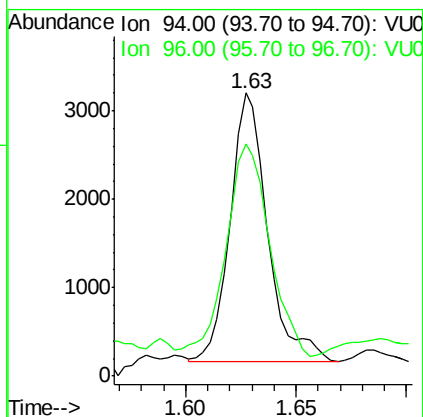
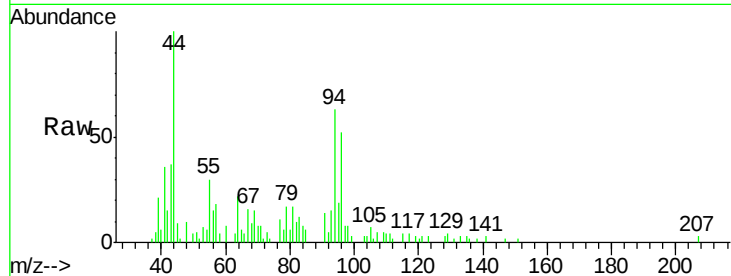
94 100

96 75.1 71.7 107.5

Manual Integrations
APPROVED

sam

2/8/2019 2:27:26 PM



#6

Chloroethane

Concen: 0.223 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029358.D

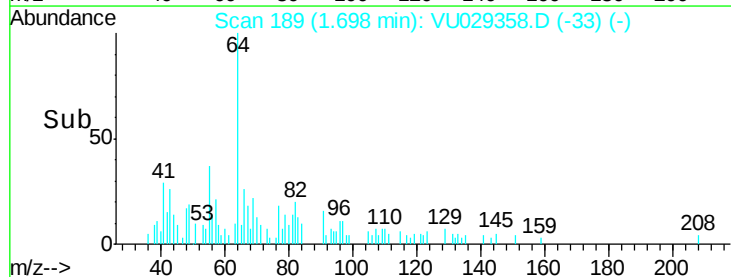
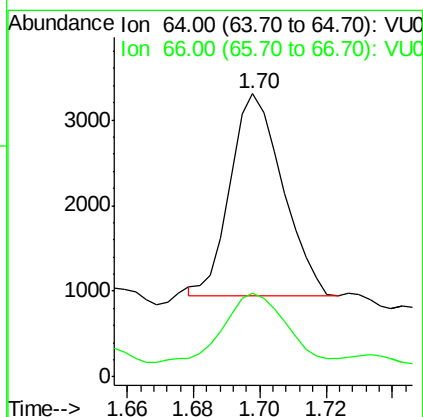
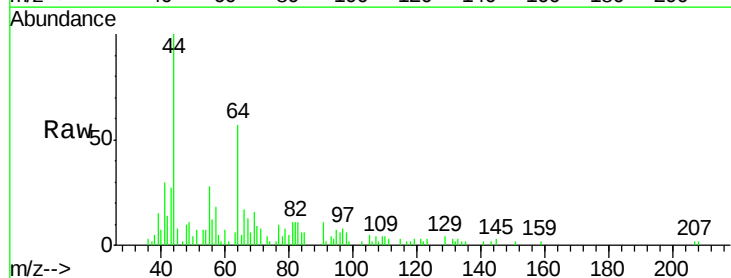
Acq: 06 Feb 2019 11:54

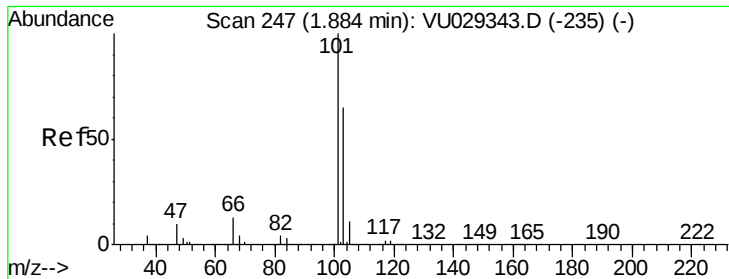
Tgt Ion: 64 Resp: 2604

Ion Ratio Lower Upper

64 100

66 32.4 26.3 39.5





#7

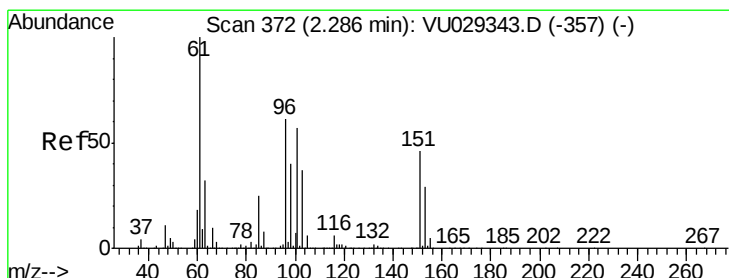
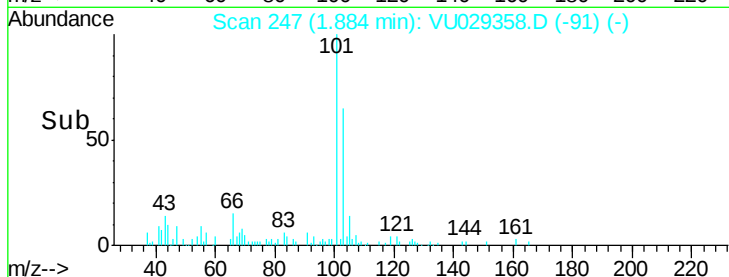
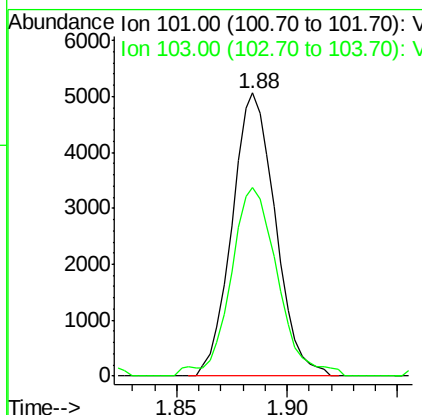
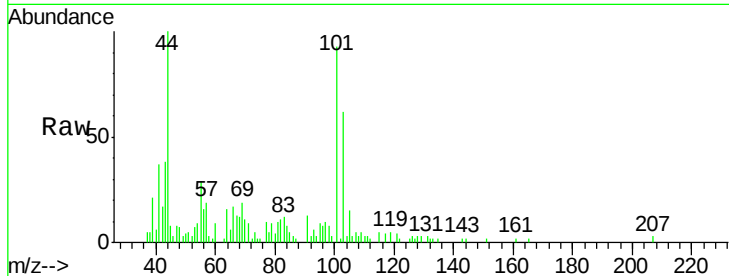
Trichlorofluoromethane
 Concen: 0.248 ug/l
 RT: 1.88 min Scan# 247
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	53.9	80.9

Manual Integrations
 APPROVED

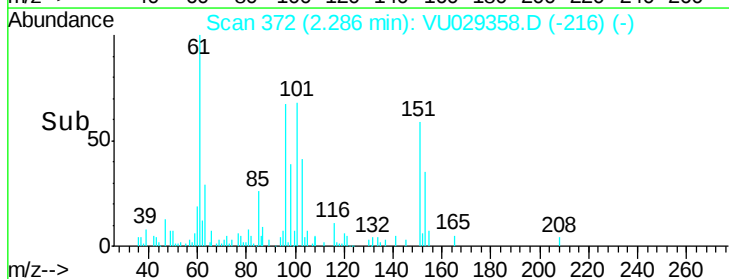
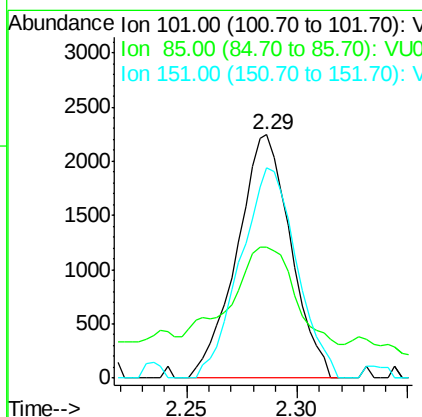
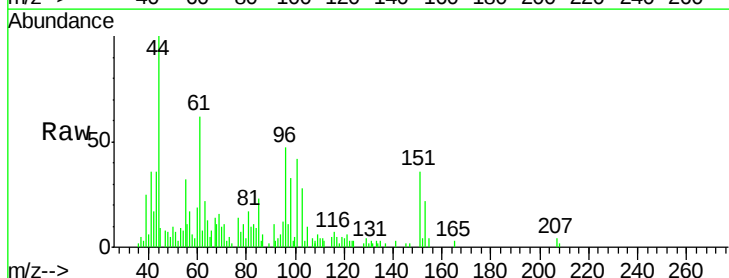
sam
 2/8/2019 2:27:26 PM

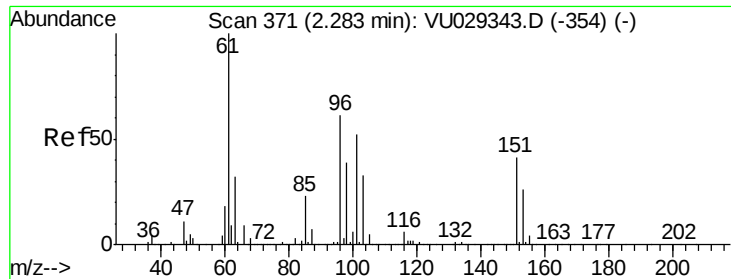


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.258 ug/l
 RT: 2.29 min Scan# 372
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
101	100		
85	42.2	40.3	60.5
151	90.3	58.1	87.1#





#9

1,1-Dichloroethene

Concen: 0.268 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

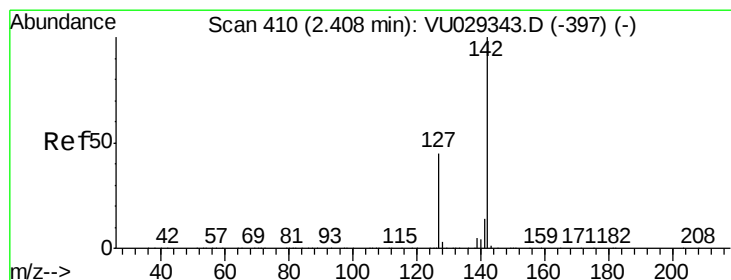
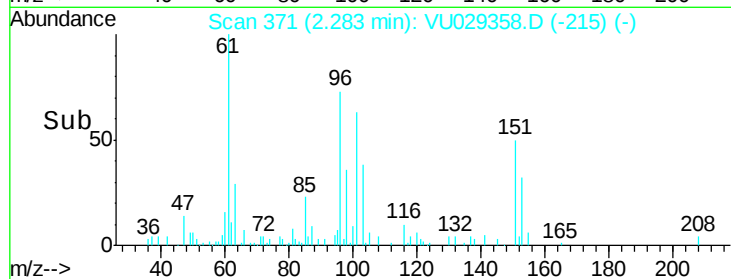
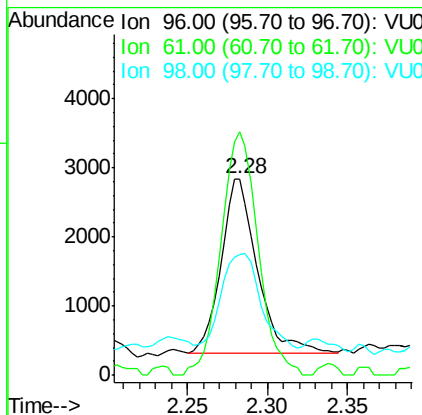
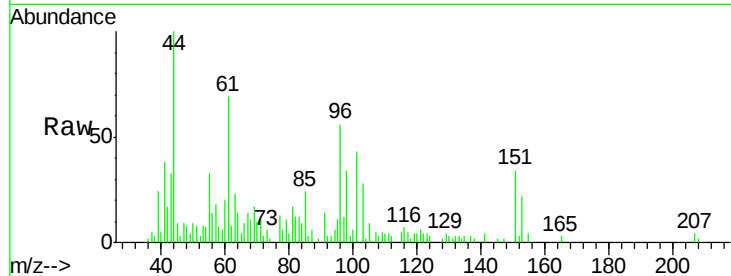
ClientSampleId :

MDL04

Tot Ion:	96	Resp:	3856
Ion	Ratio	Lower	Upper
96	100		
61	135.6	0.0	641.4
98	52.1	0.0	122.6

Manual Integrations
APPROVED

sam
2/8/2019 2:27:26 PM



#10

Iodomethane

Concen: 0.438 ug/l

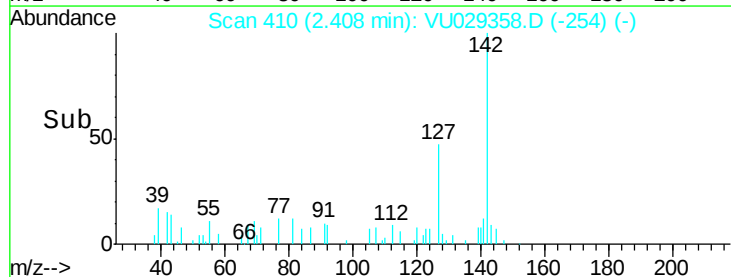
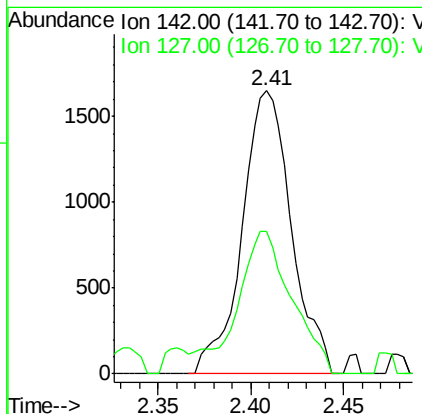
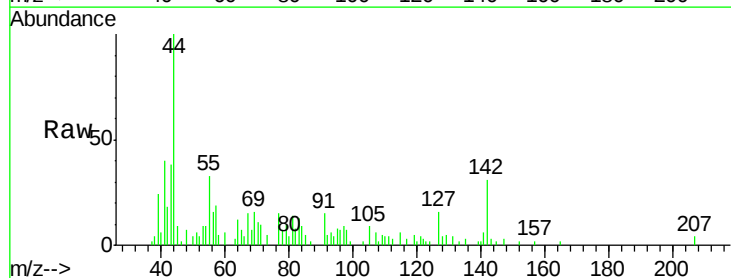
RT: 2.41 min Scan# 410

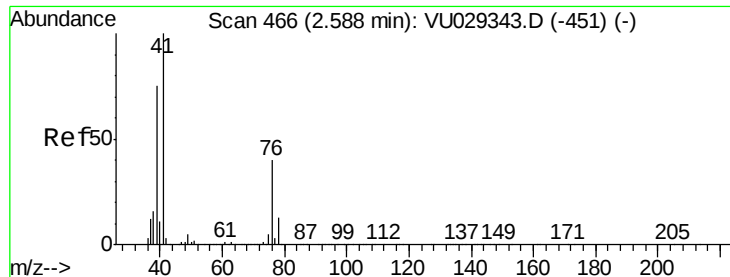
Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Tgt Ion:	142	Resp:	3067
Ion	Ratio	Lower	Upper
142	100		
127	52.6	47.6	71.4





#11

Allvl Chloride

Concen: 0.225 ug/l

RT: 2.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 41 Resp: 5441

Ion Ratio Lower Upper

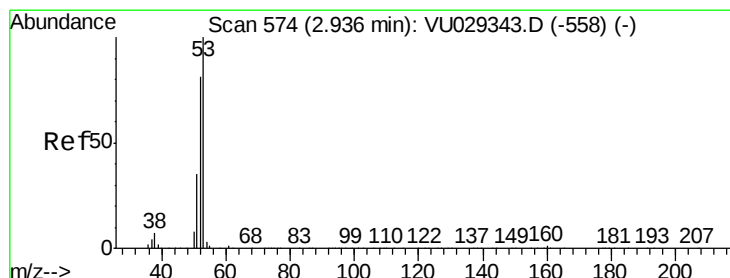
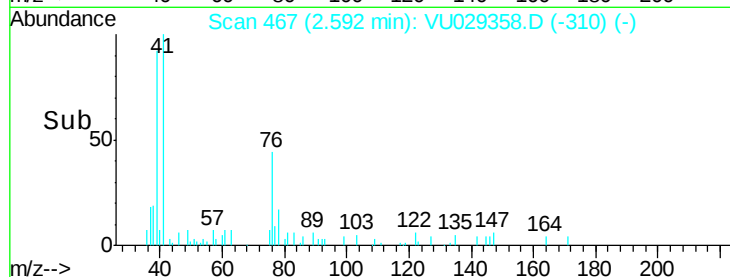
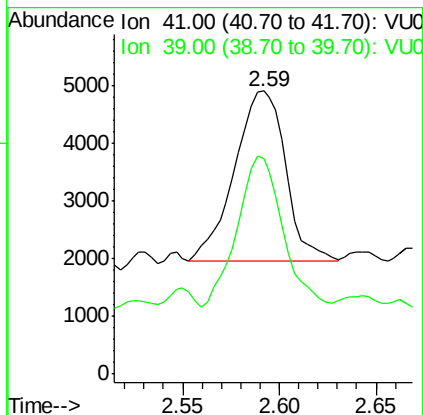
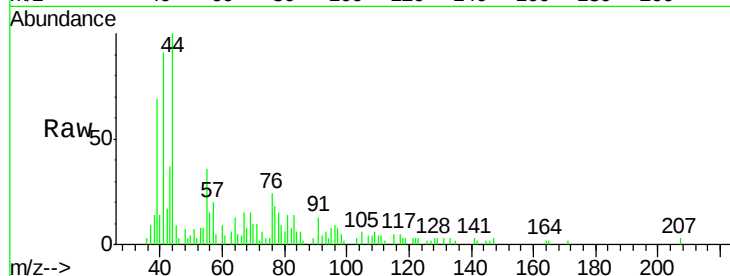
41 100

39 79.9 67.2 100.8

Manual Integrations
APPROVED

sam

2/8/2019 2:27:26 PM



#12

Acrylonitrile

Concen: 0.555 ug/l

RT: 2.94 min Scan# 575

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

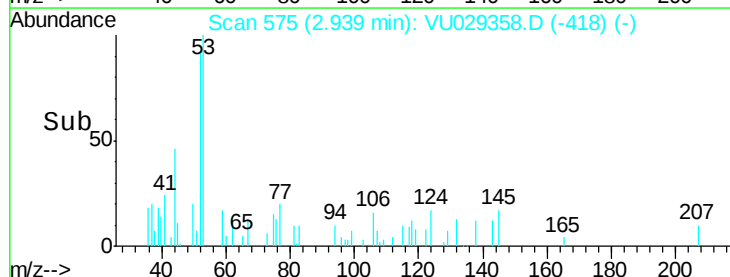
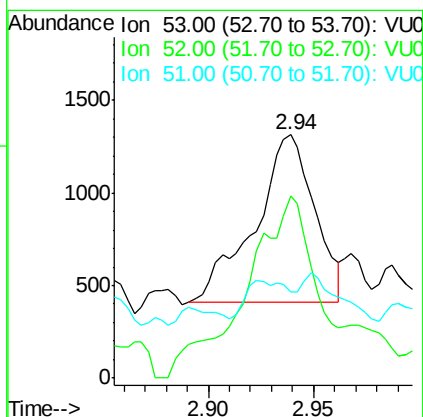
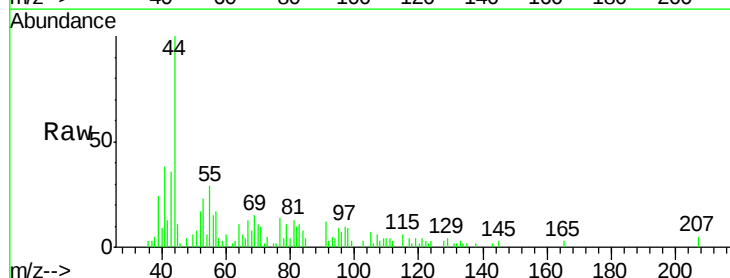
Tgt Ion: 53 Resp: 1793

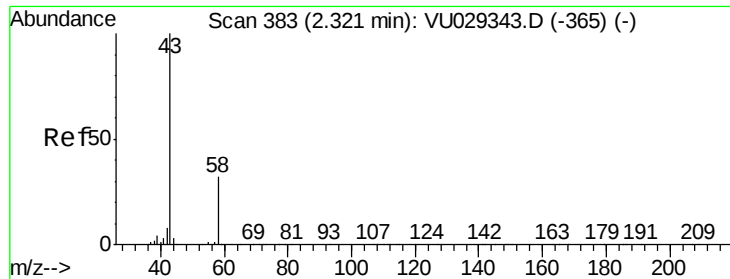
Ion Ratio Lower Upper

53 100

52 124.4 67.6 101.4#

51 17.0 31.0 46.4#





#13

Acetone

Concen: 1.922 ug/l

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 43 Resp: 5984

Ion Ratio Lower Upper

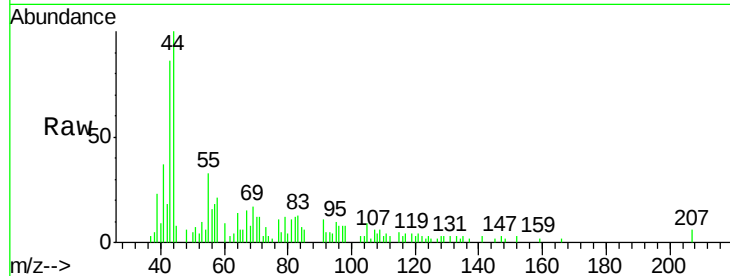
43 100

58 32.0 19.2 28.8#

Manual Integrations
APPROVED

sam

2/8/2019 2:27:26 PM

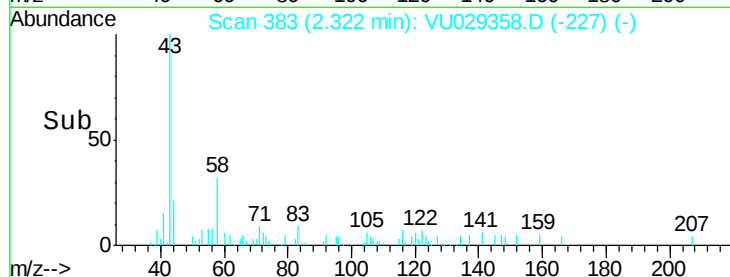


Abundance Ion 43.00 (42.70 to 43.70): VU0

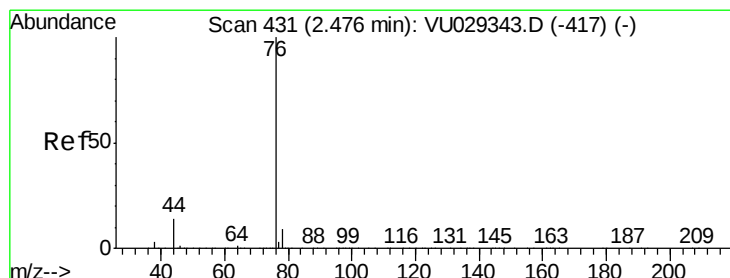
Ion 58.00 (57.70 to 58.70): VU0

2.32

Time-->



Time-->



#14

Carbon Disulfide

Concen: 0.250 ug/l

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU029358.D

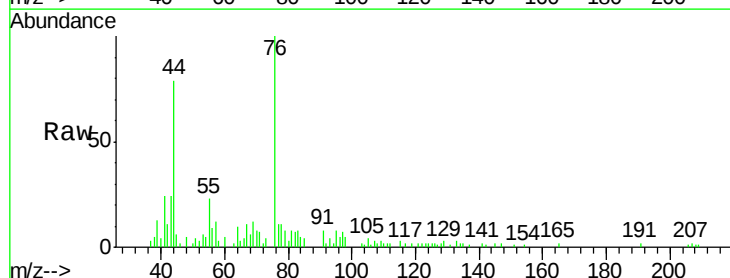
Acq: 06 Feb 2019 11:54

Tgt Ion: 76 Resp: 12726

Ion Ratio Lower Upper

76 100

78 6.9 7.1 10.7#

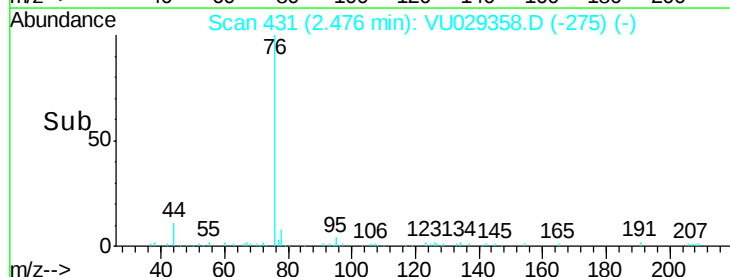


Abundance Ion 76.00 (75.70 to 76.70): VU0

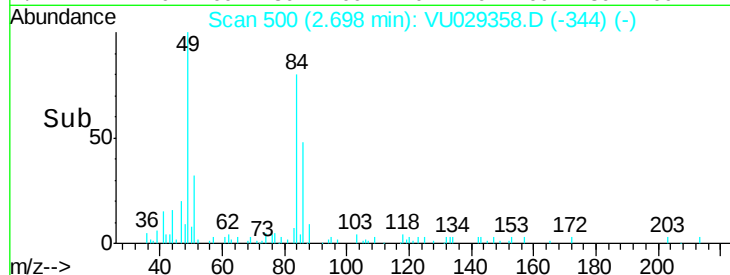
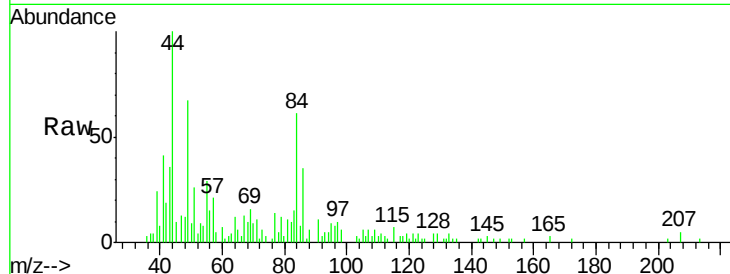
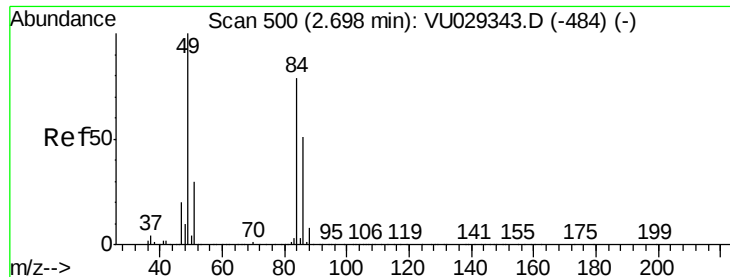
Ion 78.00 (77.70 to 78.70): VU0

2.48

Time-->



Time-->



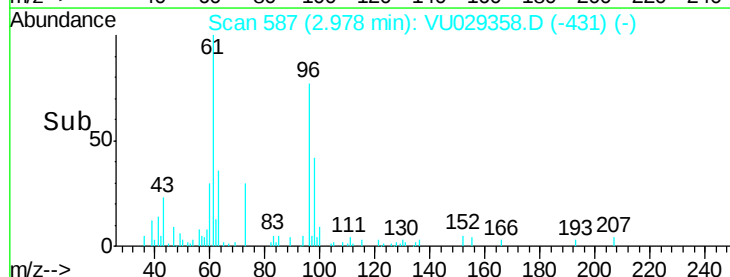
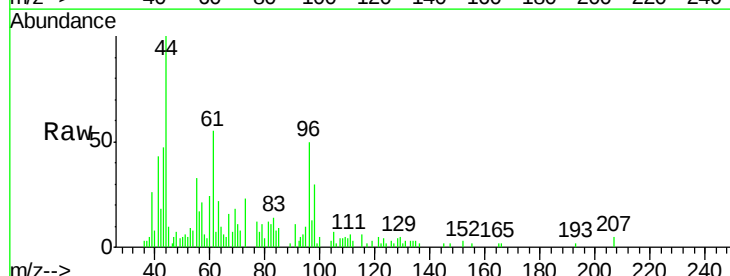
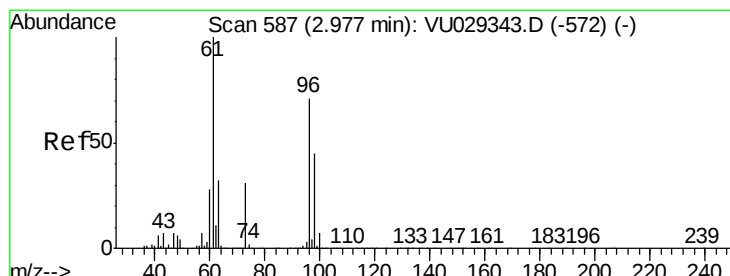
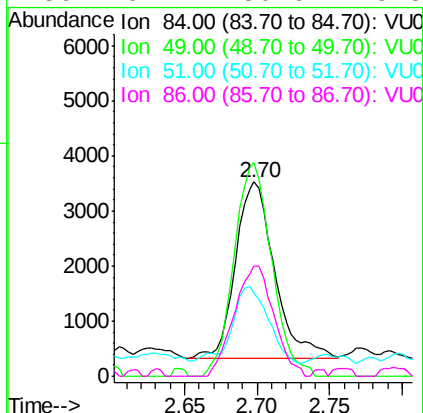
#15
Methvlene Chloride
Concen: 0.346 ug/l
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tot Ion	Ratio	Lower	Upper
84	100		
49	120.9	127.0	190.6#
51	38.6	0.0	93.4
86	62.1	50.6	75.8

Instrument :
MSVOA_U
ClientSampleId :
MDL04

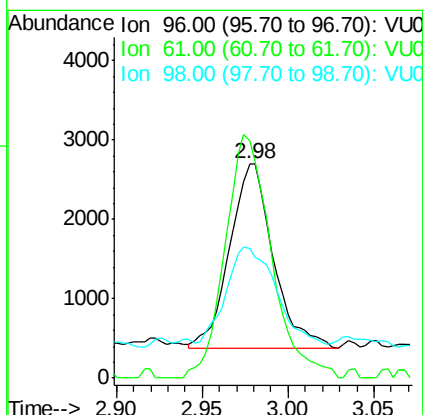
Manual Integrations
APPROVED

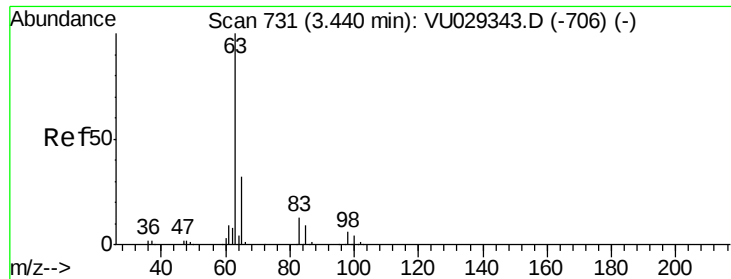
sam
2/8/2019 2:27:26 PM



#16
trans-1,2-Dichloroethene
Concen: 0.252 ug/l
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.1	140.6	210.8#
98	49.6	49.3	73.9





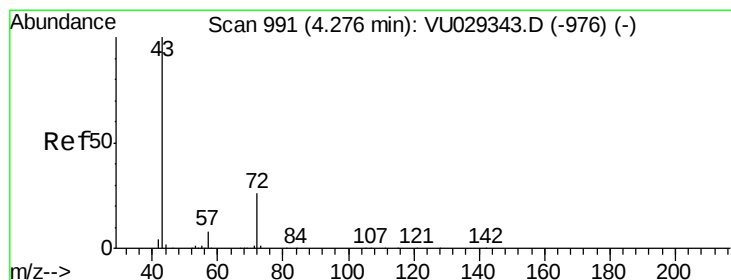
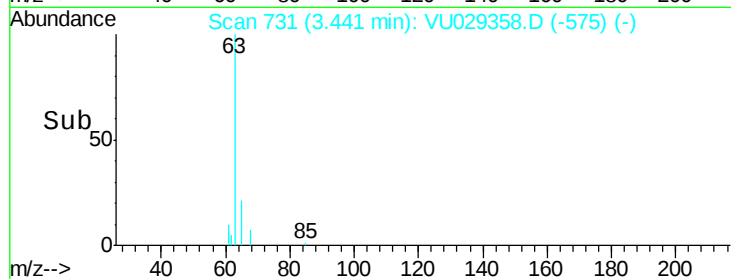
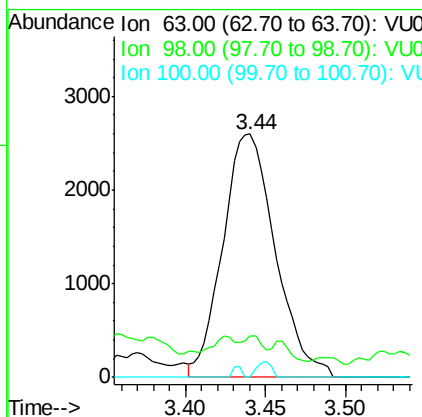
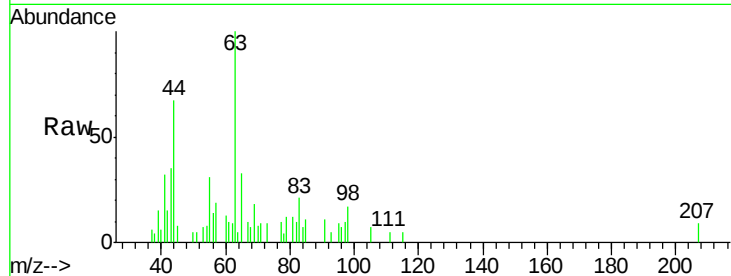
#17
 1,1-Dichloroethane
 Concen: 0.229 ug/l
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
63	100		
98	9.9	2.9	8.8#
100	0.0	1.7	5.1#

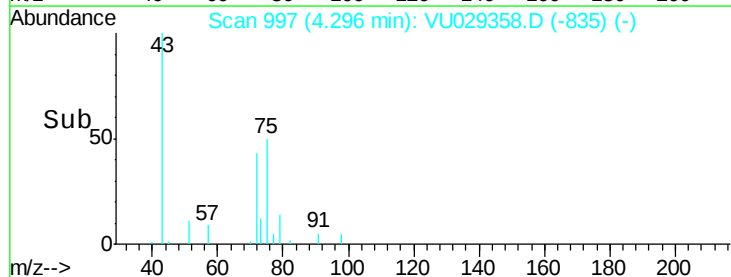
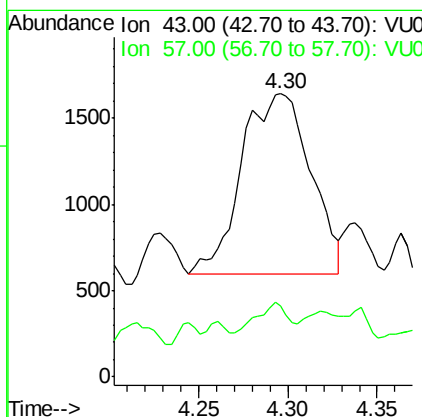
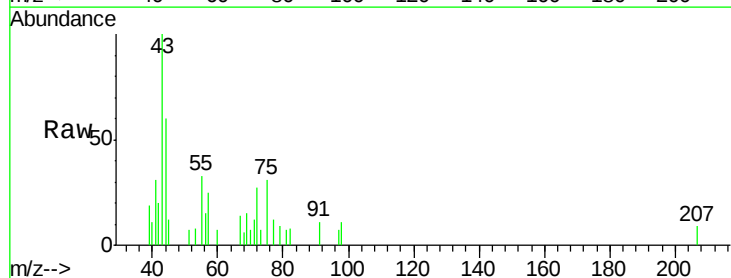
Manual Integrations
 APPROVED

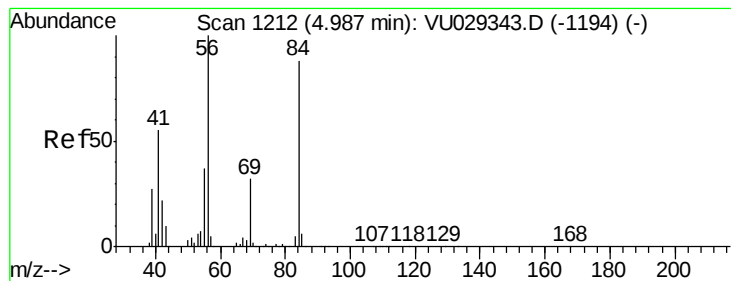
sam
 2/8/2019 2:27:26 PM



#18
 2-Butanone
 Concen: 0.806 ug/l
 RT: 4.30 min Scan# 997
 Delta R.T. 0.02 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
43	100		
57	9.1	0.0	15.8





#19

Cyclohexane

Concen: 0.246 ug/l m

RT: 4.99 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 56 Resp: 5819

Ion Ratio Lower Upper

56 100

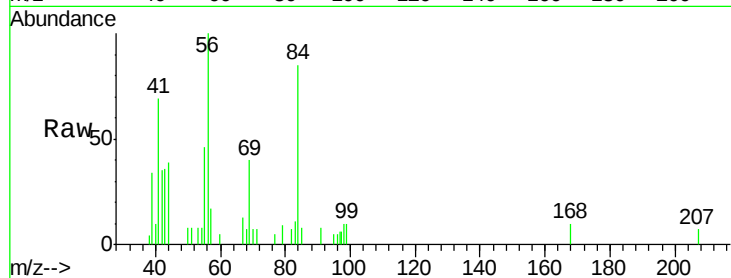
69 1.0 26.8 40.2#

84 2.6 71.5 107.3#

Manual Integrations
APPROVED

sam

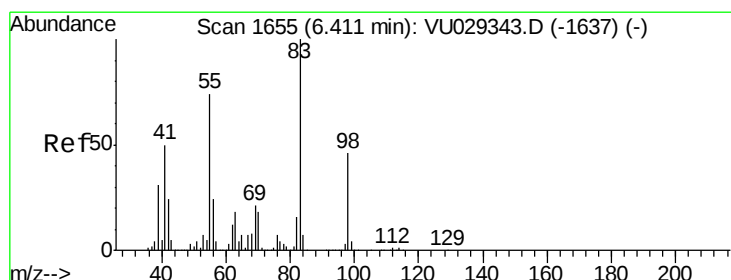
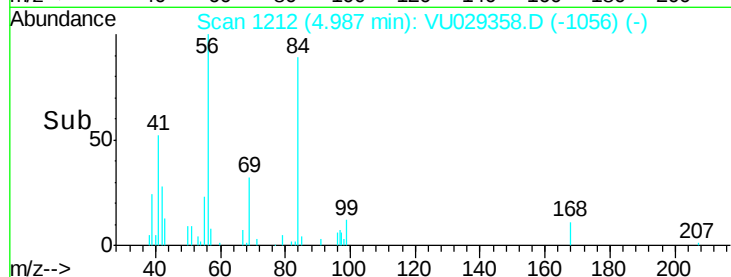
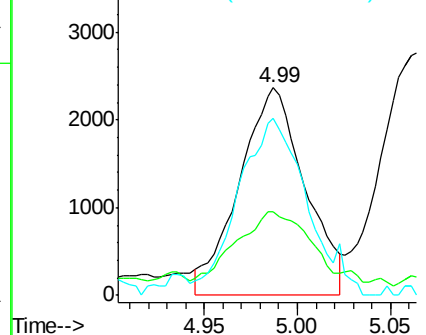
2/8/2019 2:27:26 PM



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#20

Methylcyclohexane

Concen: 0.268 ug/l m

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

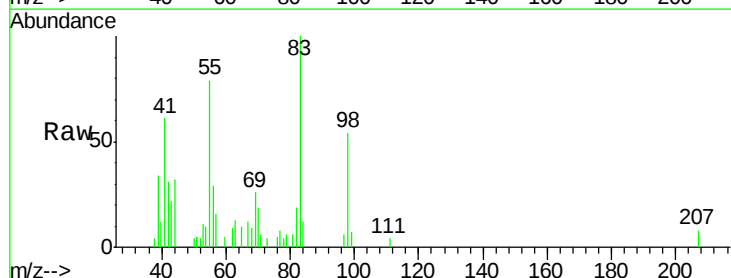
Tgt Ion: 83 Resp: 6672

Ion Ratio Lower Upper

83 100

55 63.4 72.4 108.6#

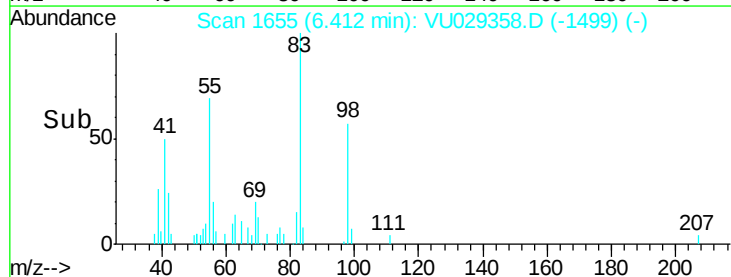
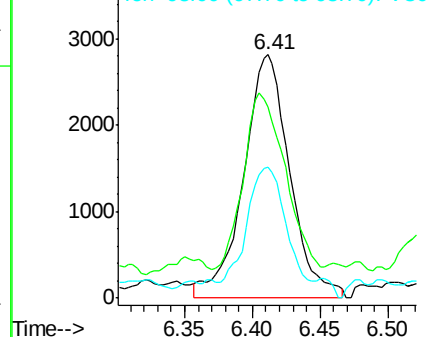
98 36.6 36.6 54.8

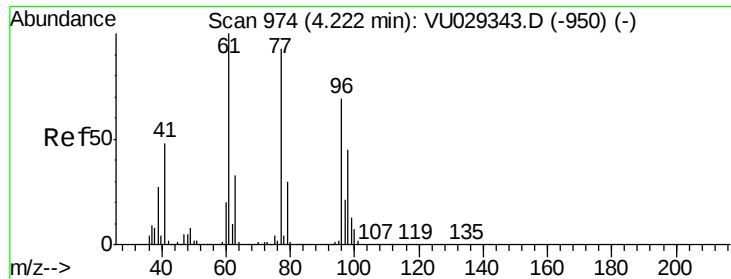


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#21

2,2-Dichloropropane

Concen: 0.297 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 77 Resp: 7025

Ion Ratio Lower Upper

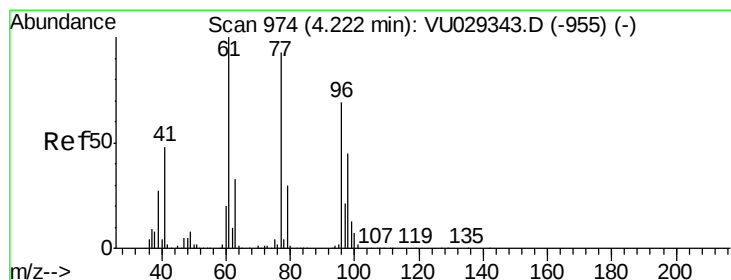
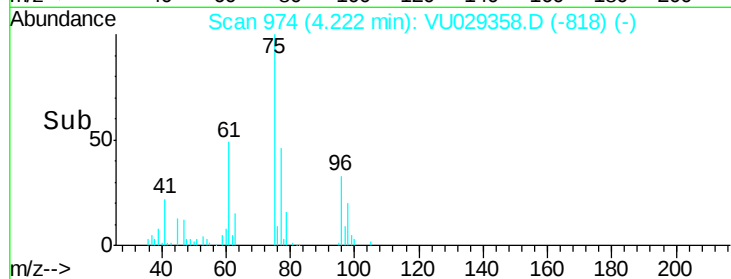
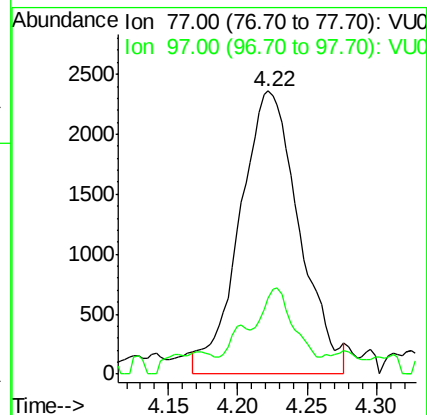
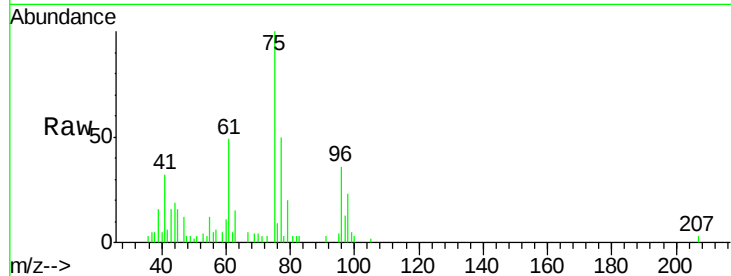
77 100

97 0.7 15.6 23.4#

Manual Integrations
APPROVED

sam

2/8/2019 2:27:26 PM



#22

cis-1,2-Dichloroethene

Concen: 0.303 ug/l

RT: 4.23 min Scan# 975

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

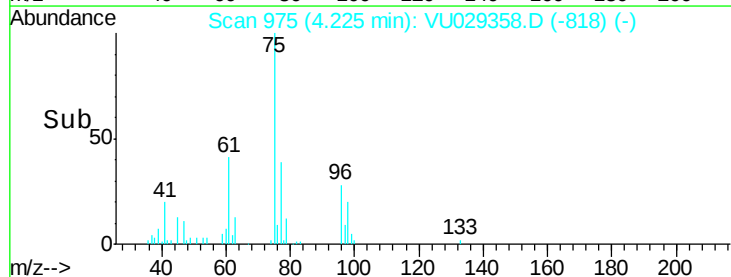
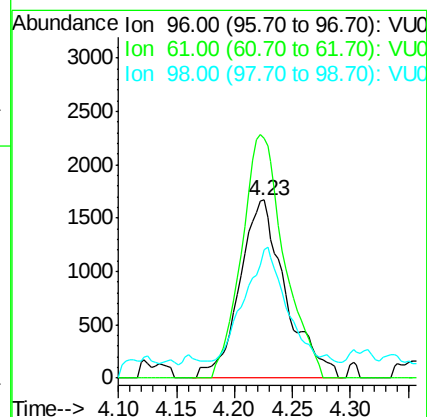
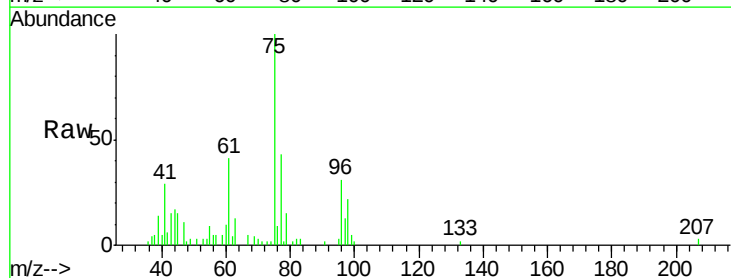
Tgt Ion: 96 Resp: 4594

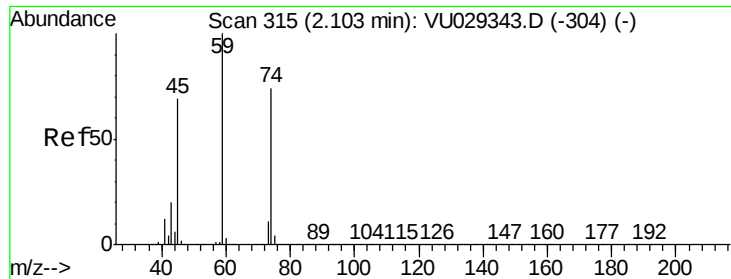
Ion Ratio Lower Upper

96 100

61 126.8 0.0 460.0

98 59.4 32.6 97.7





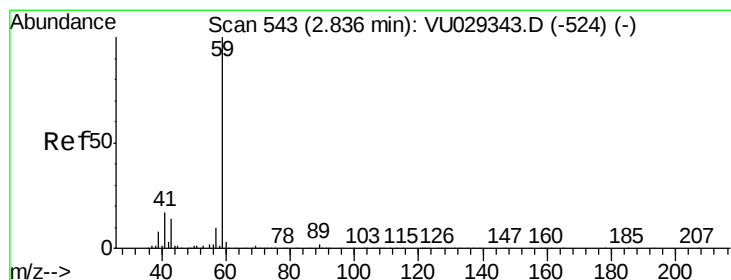
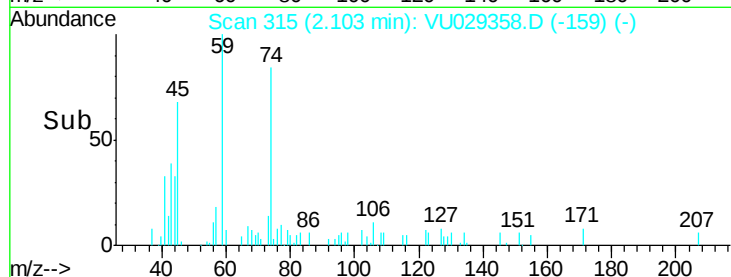
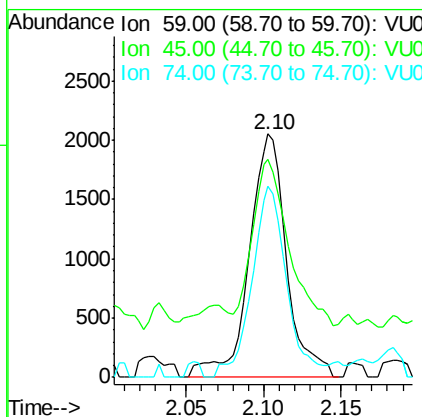
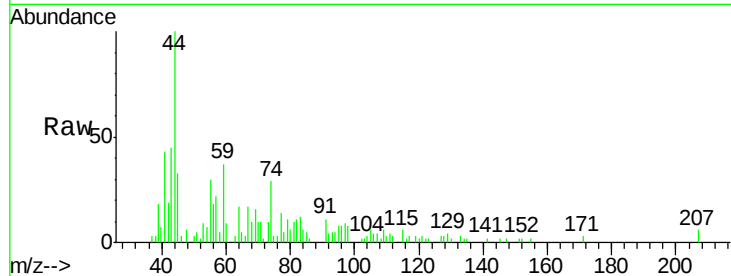
#23
Diethyl Ether
Concen: 0.299 ug/l
RT: 2.10 min Scan# 315
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
59	100		
45	66.0	64.2	96.4
74	72.7	55.3	82.9

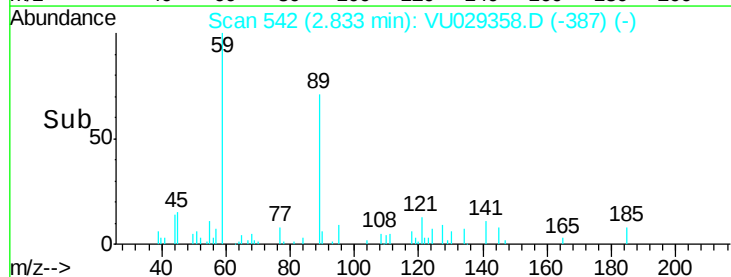
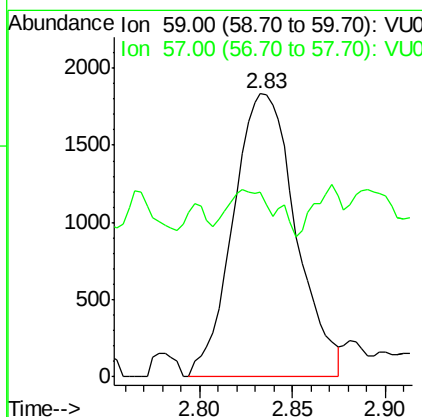
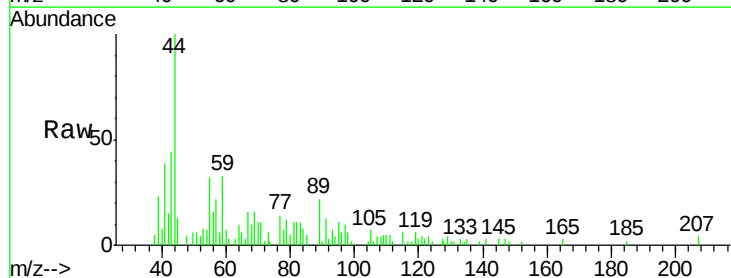
Manual Integrations
APPROVED

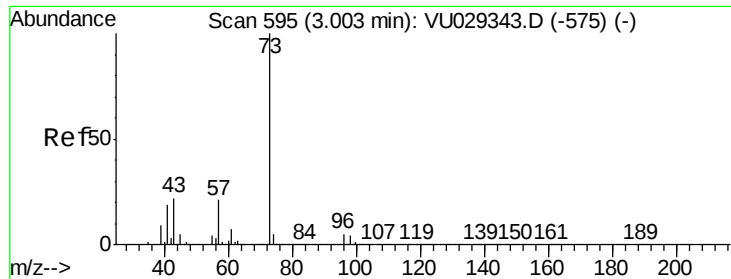
sam
2/8/2019 2:27:26 PM



#24
tert-Butyl Alcohol
Concen: 3.595 ug/l
RT: 2.83 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
59	100		
57	7.3	8.8	13.2#





#25

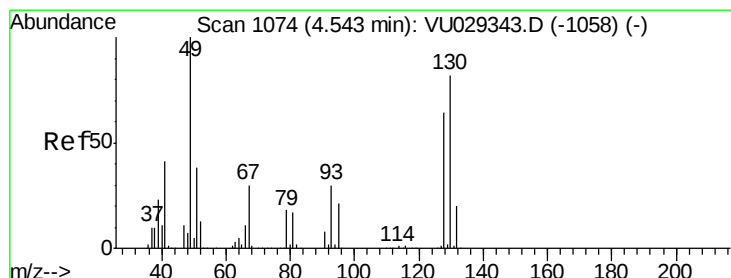
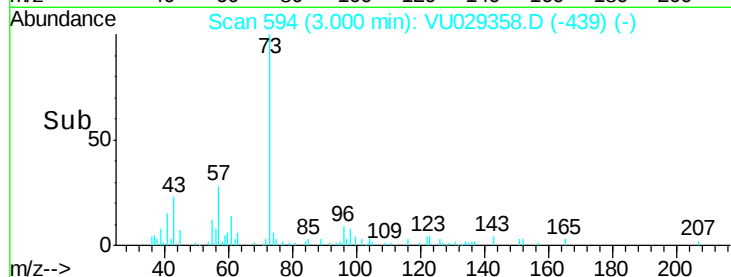
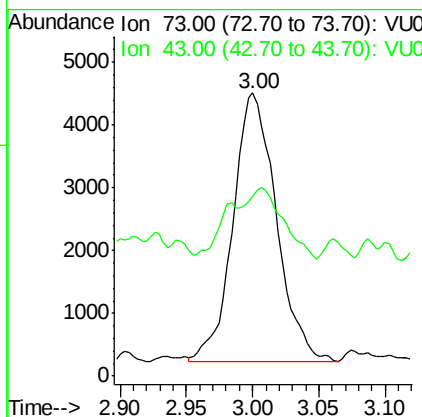
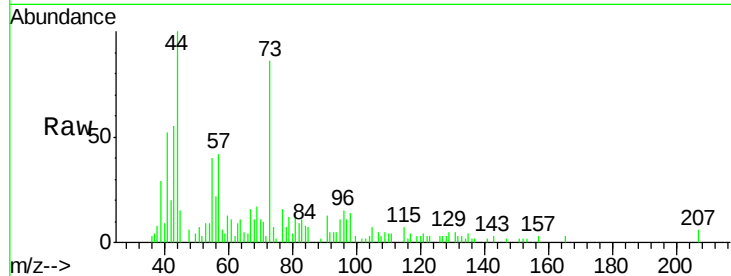
Methyl tert-Butyl Ether
 Concen: 0.238 ug/l
 RT: 3.00 min Scan# 594
 Delta R.T. -0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
73	100		
43	6.0	22.1	33.1#

Manual Integrations
 APPROVED

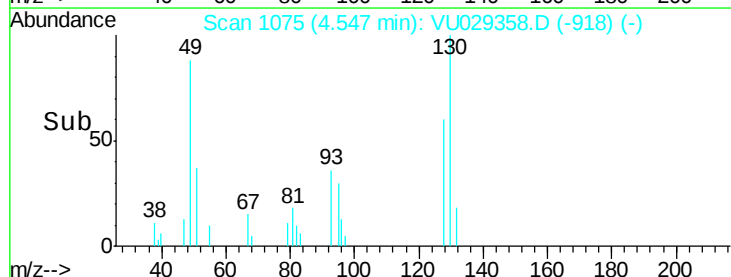
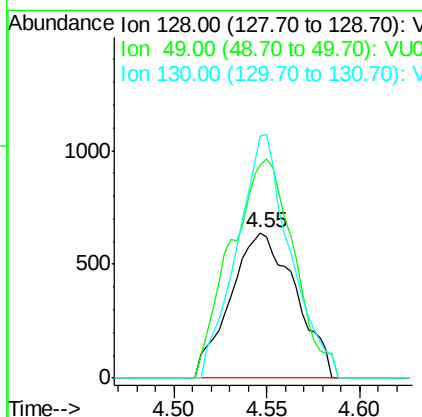
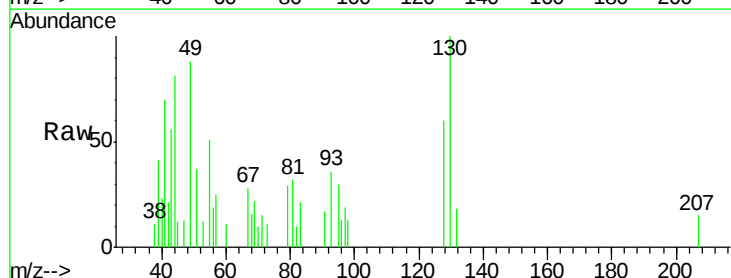
sam
 2/8/2019 2:27:26 PM

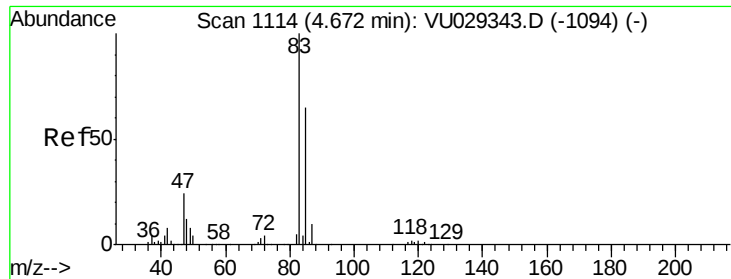


#26

Bromochloromethane
 Concen: 0.232 ug/l
 RT: 4.55 min Scan# 1075
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
128	100		
49	145.8	0.0	401.6
130	137.4	108.0	162.0





#27

Chloroform

Concen: 0.262 ug/l

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 83 Resp: 6498

Ion Ratio Lower Upper

83 100

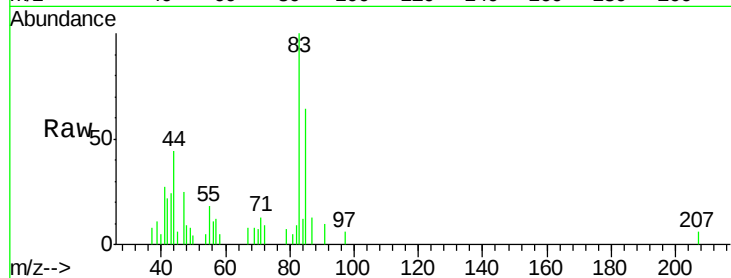
85 64.4 0.0 126.6

Manual Integrations

APPROVED

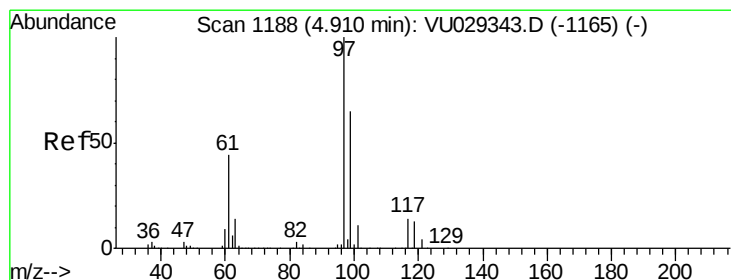
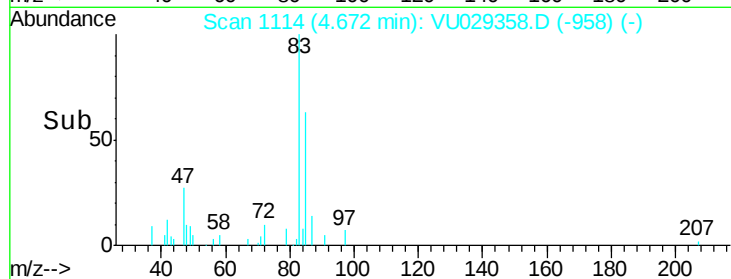
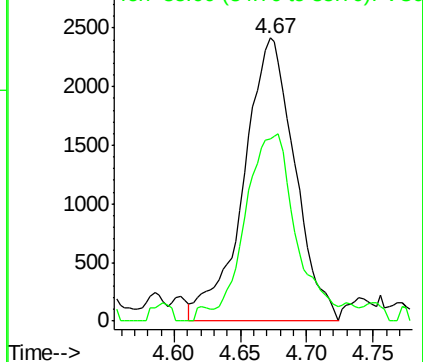
sam

2/8/2019 2:27:26 PM



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#28

1,1,1-Trichloroethane

Concen: 0.263 ug/l

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

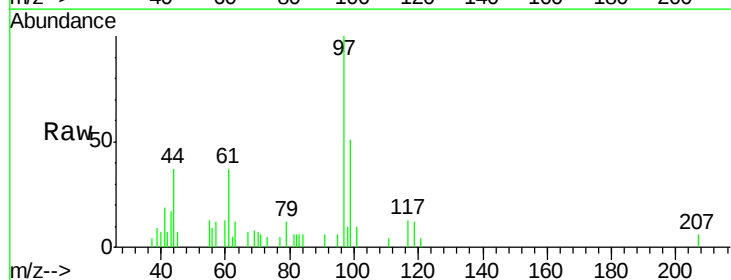
Tgt Ion: 97 Resp: 6044

Ion Ratio Lower Upper

97 100

99 55.7 32.4 97.2

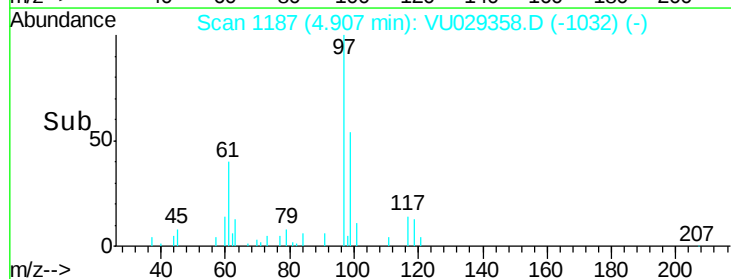
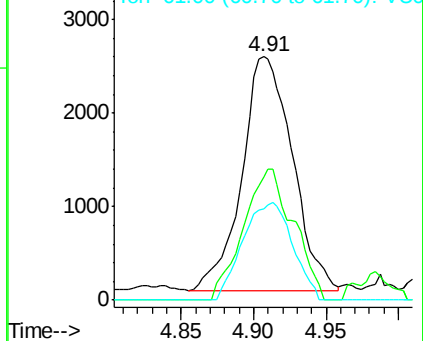
61 41.2 24.4 73.2

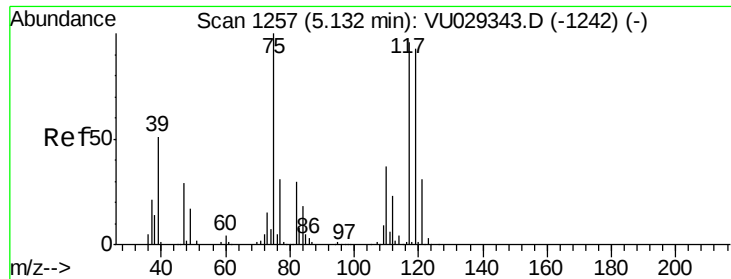


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





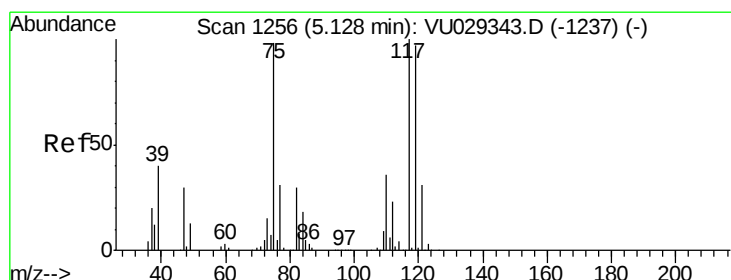
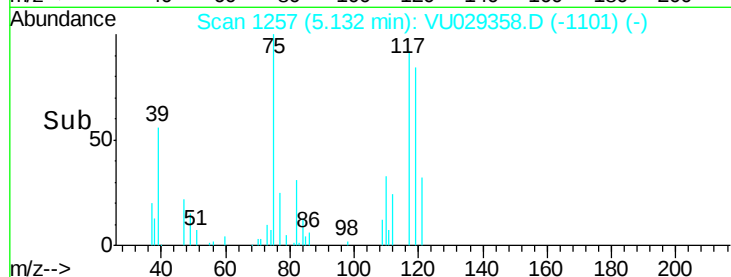
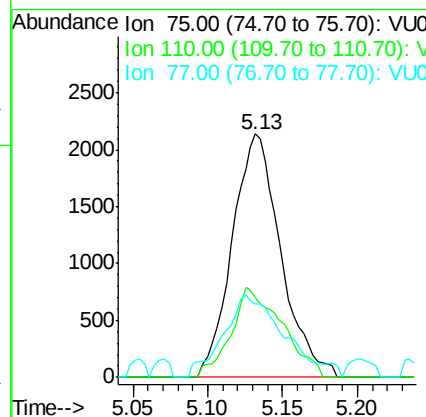
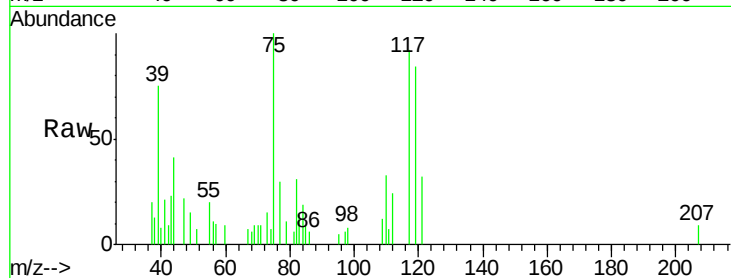
#29
 1,1-Dichloropropene
 Concen: 0.241 ug/l
 RT: 5.13 min Scan# 1257
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
110	38.9	15.4	46.2
77	41.2	24.1	36.1

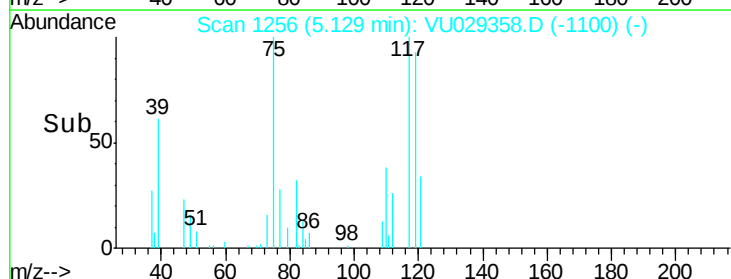
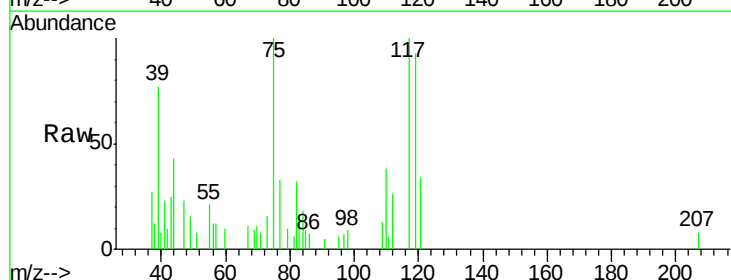
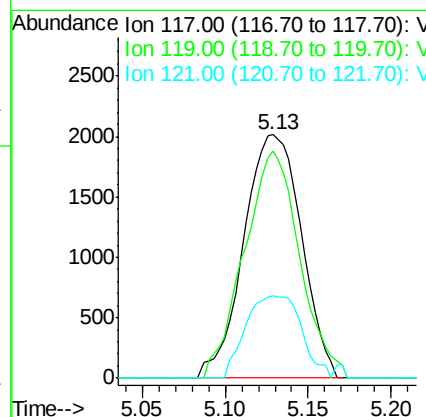
Manual Integrations
 APPROVED

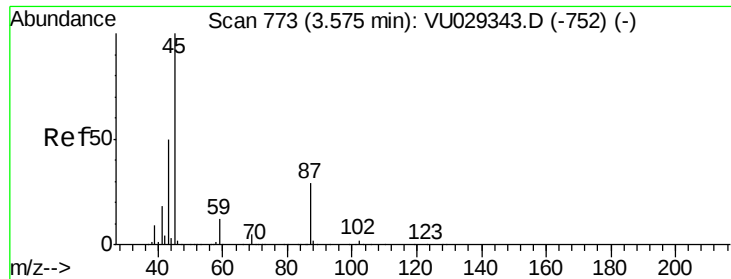
sam
 2/8/2019 2:27:26 PM



#30
 Carbon Tetrachloride
 Concen: 0.234 ug/l
 RT: 5.13 min Scan# 1256
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.1	76.8	115.2
121	34.0	24.4	36.6





#31

Isopropyl Ether

Concen: 0.226 ug/l

RT: 3.58 min Scan# 773

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 45 Resp: 8717

Ion Ratio Lower Upper

45 100

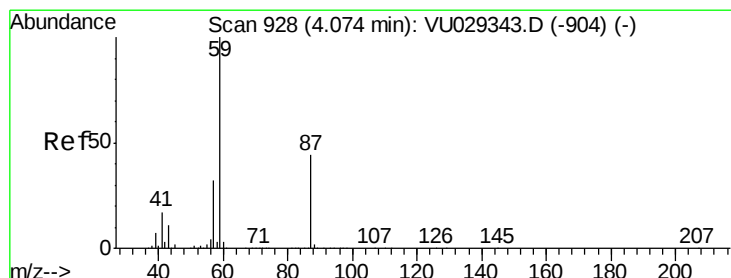
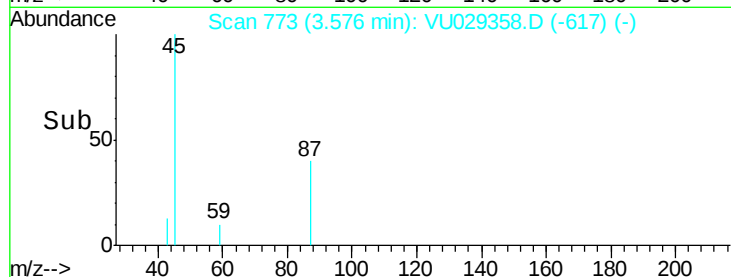
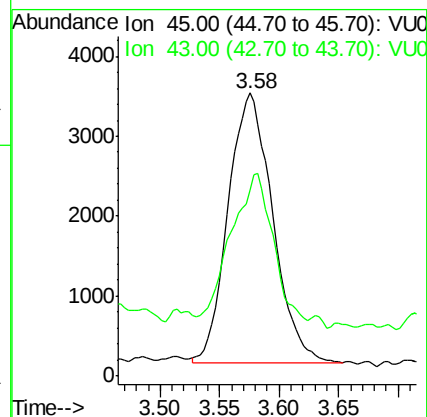
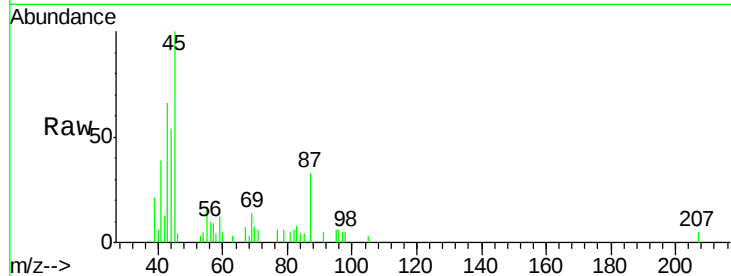
43 50.7 28.4 85.3

Manual Integrations

APPROVED

sam

2/8/2019 2:27:26 PM



#32

Ethyl-t-butyl ether

Concen: 0.247 ug/l

RT: 4.07 min Scan# 928

Delta R.T. 0.00 min

Lab File: VU029358.D

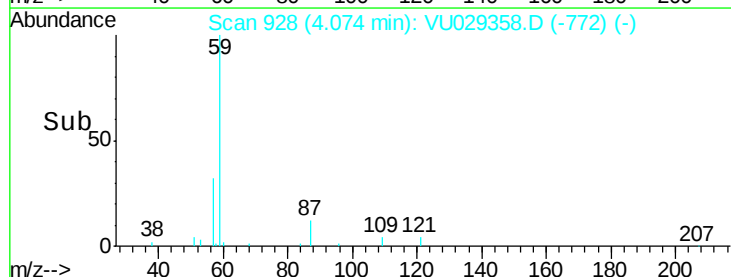
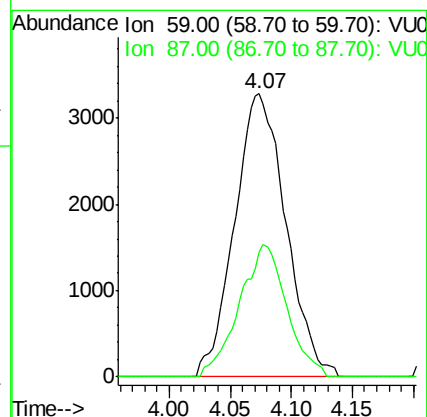
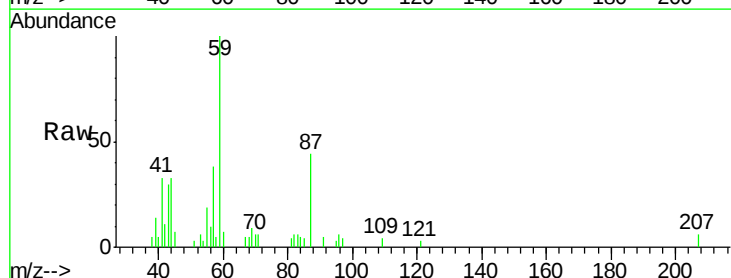
Acq: 06 Feb 2019 11:54

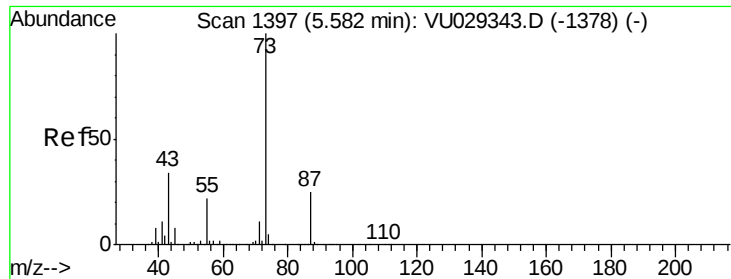
Tgt Ion: 59 Resp: 9555

Ion Ratio Lower Upper

59 100

87 43.1 31.1 46.7





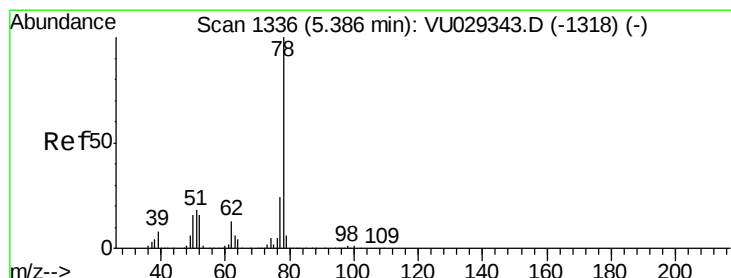
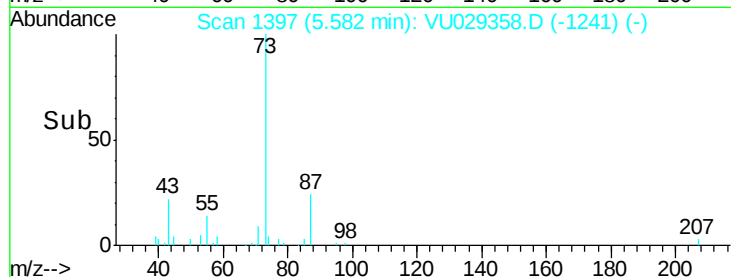
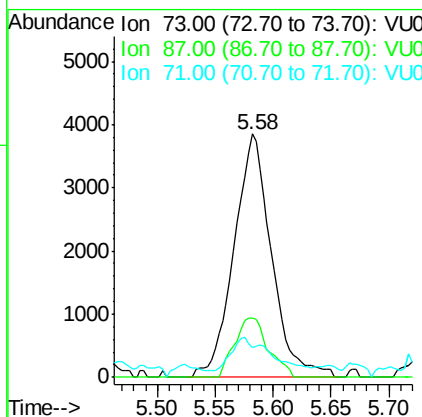
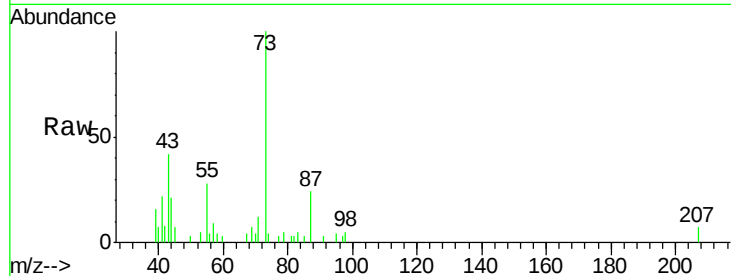
#33
Tert-Butyl methyl ether
Concen: 0.248 ug/l
RT: 5.58 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
73	100		
87	21.8	19.4	29.0
71	7.6	9.0	13.4

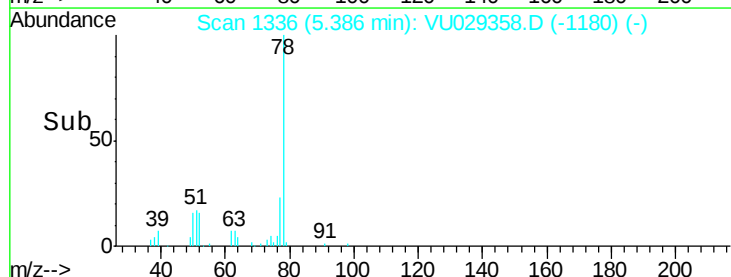
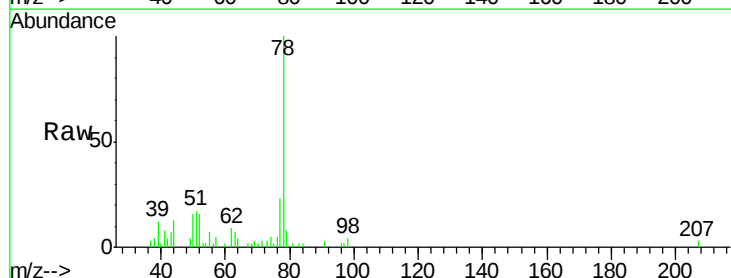
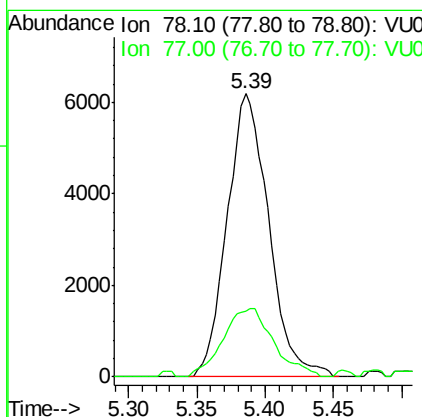
Manual Integrations
APPROVED

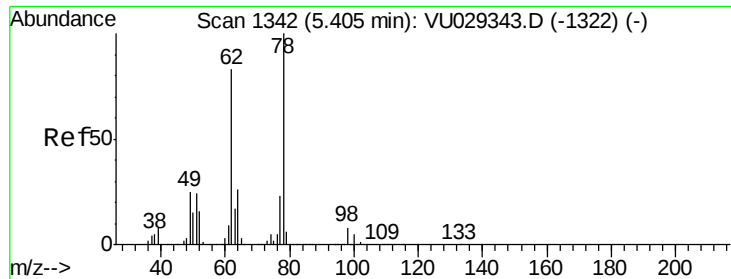
sam
2/8/2019 2:27:26 PM



#35
Benzene
Concen: 0.238 ug/l
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.8	29.8





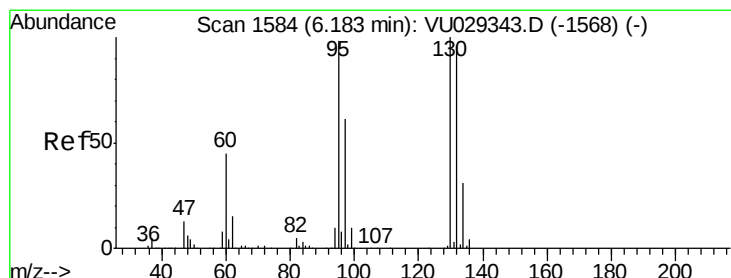
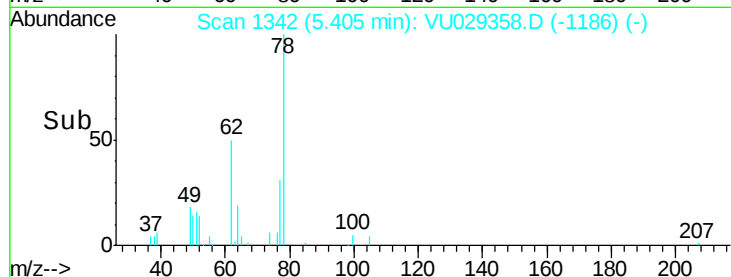
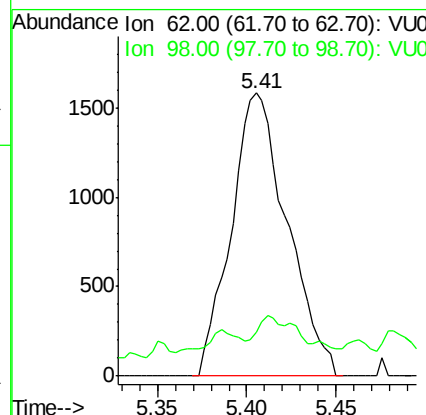
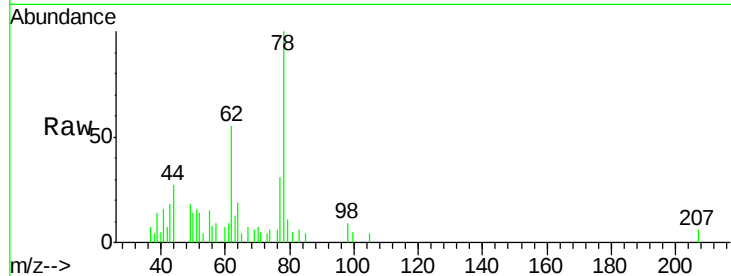
#36
 1,2-Dichloroethane
 Concen: 0.207 ug/l
 RT: 5.41 min Scan# 1342
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion: 62 Resp: 3460
 Ion Ratio Lower Upper
 62 100
 98 6.5 4.9 7.3

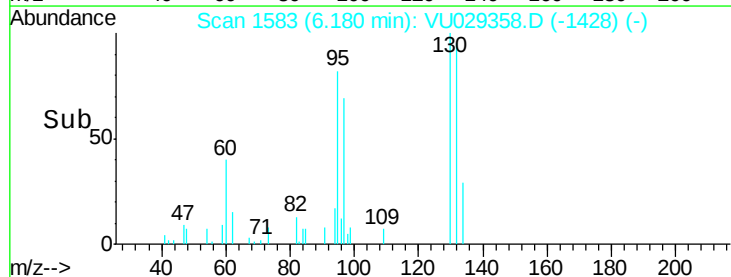
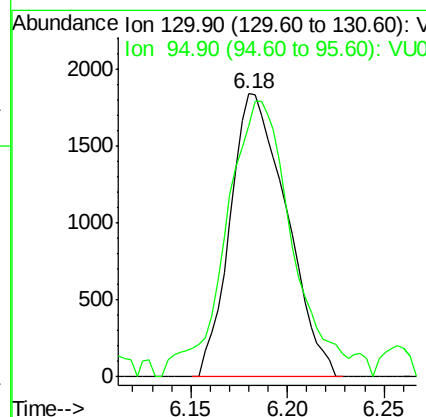
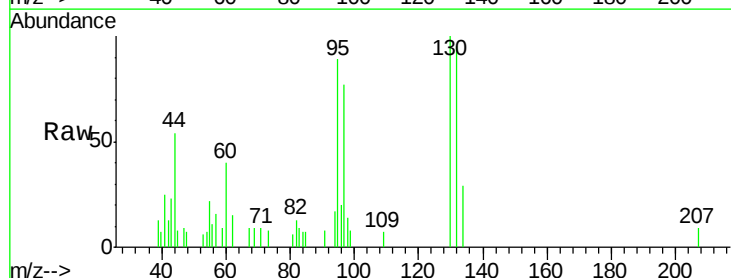
Manual Integrations
 APPROVED

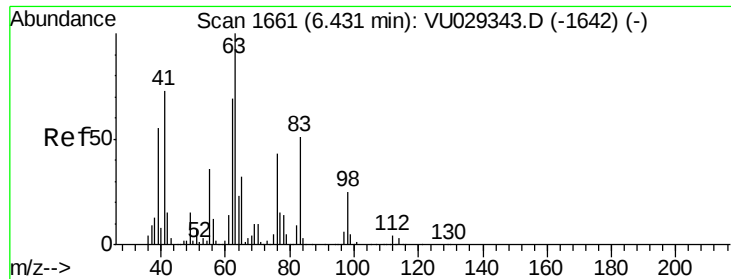
sam
 2/8/2019 2:27:26 PM



#37
 Trichloroethene
 Concen: 0.235 ug/l
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Tgt Ion:130 Resp: 3725
 Ion Ratio Lower Upper
 130 100
 95 80.7 85.4 128.0#





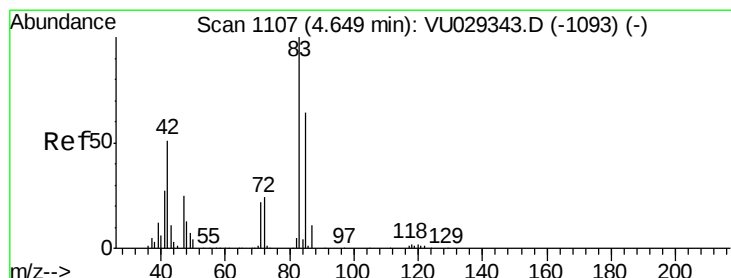
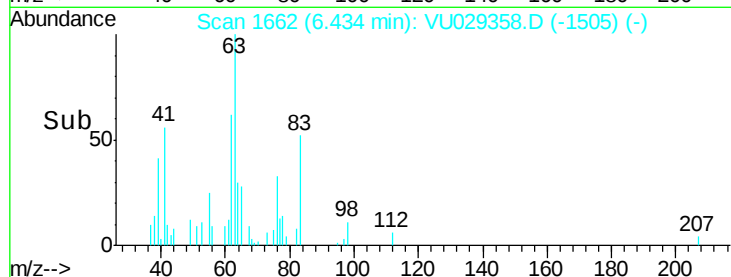
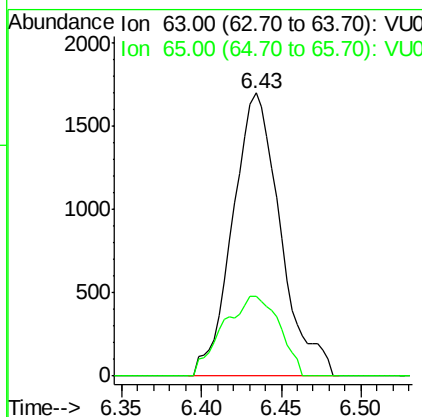
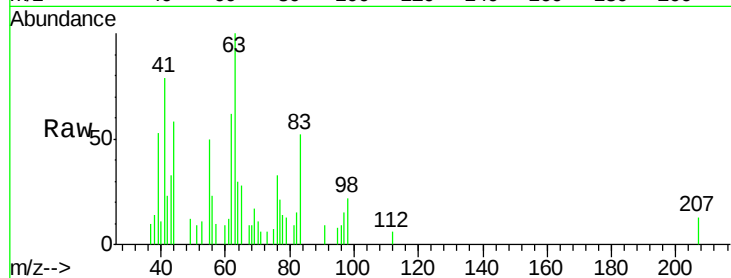
#38
 1,2-Dichloropropane
 Concen: 0.241 ug/l
 RT: 6.43 min Scan# 1662
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	63	Resp	3463
Ion Ratio	Lower	Upper	
63	100		
65	28.2	25.5	38.3

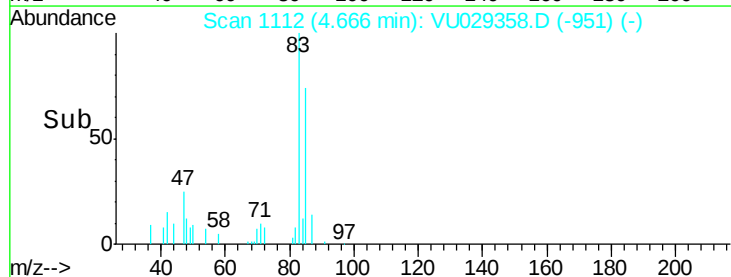
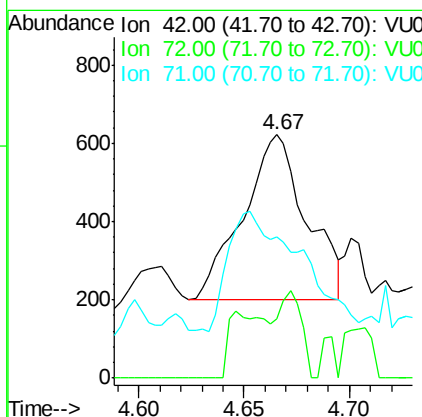
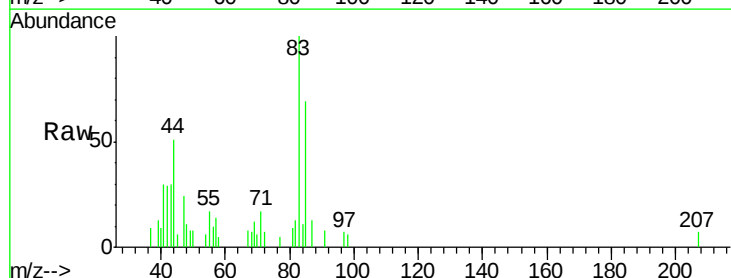
Manual Integrations
 APPROVED

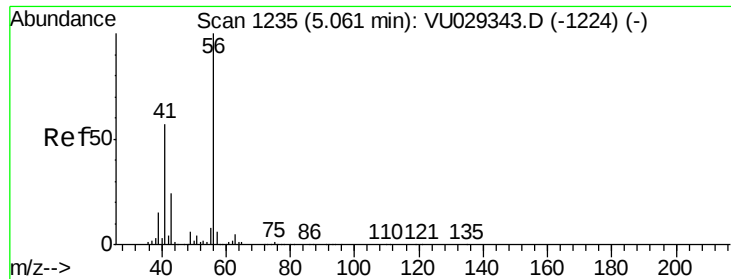
sam
 2/8/2019 2:27:26 PM



#41
 Tetrahydrofuran
 Concen: 0.372 ug/l
 RT: 4.67 min Scan# 1112
 Delta R.T. 0.02 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Tgt Ion	42	Resp	878
Ion Ratio	Lower	Upper	
42	100		
72	19.5	33.1	49.7#
71	0.0	30.2	45.2#





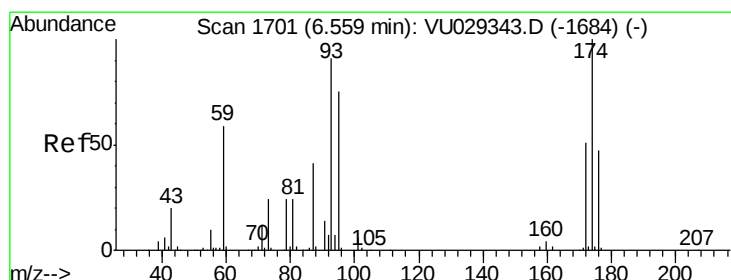
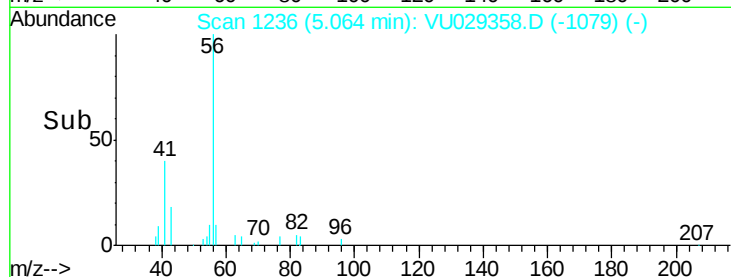
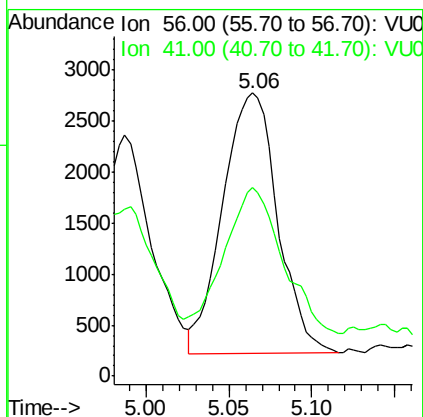
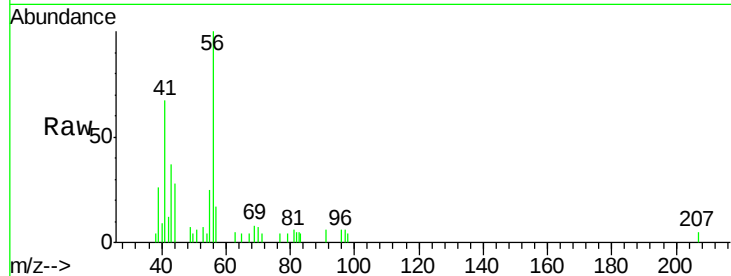
#42
1-Chlorobutane
Concen: 0.218 ug/l
RT: 5.06 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	56	Resp	5849
Ion Ratio	Lower	Upper	
56	100		
41	59.0	31.3	93.8

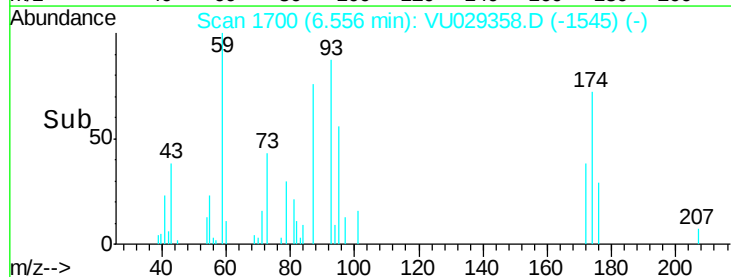
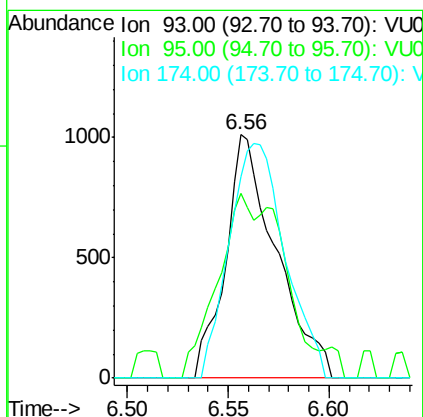
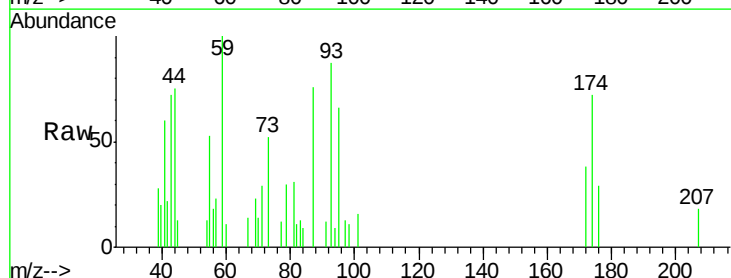
Manual Integrations
APPROVED

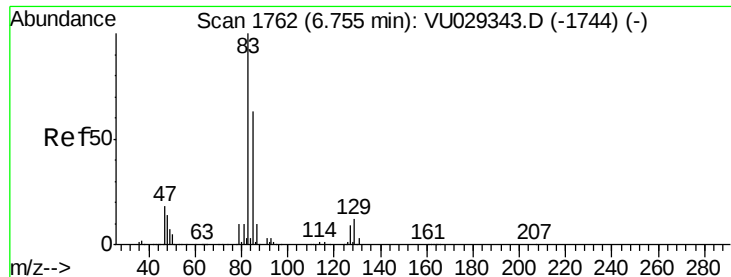
sam
2/8/2019 2:27:26 PM



#43
Dibromomethane
Concen: 0.231 ug/l
RT: 6.56 min Scan# 1700
Delta R.T. -0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion	93	Resp	1771
Ion Ratio	Lower	Upper	
93	100		
95	53.8	68.2	102.2#
174	106.6	77.6	116.4





#44

Bromodichloromethane

Concen: 0.237 ug/l

RT: 6.76 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

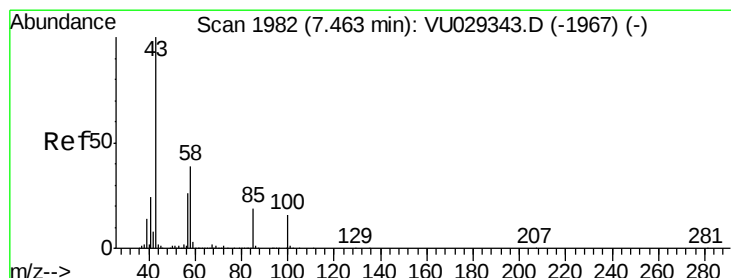
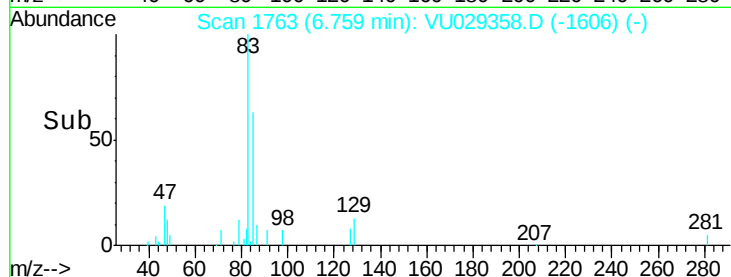
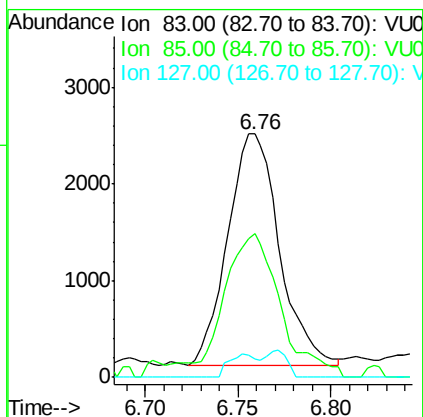
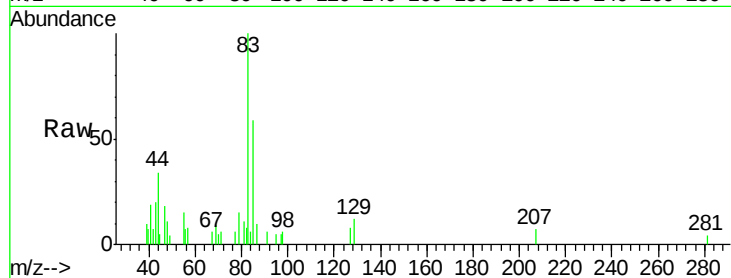
ClientSampleId :

MDL04

Tot Ion:	83	Resp:	4624
Ion	Ratio	Lower	Upper
83	100		
85	57.8	49.2	73.8
127	8.2	7.0	10.6

Manual Integrations
APPROVED

sam
2/8/2019 2:27:26 PM



#45

4-Methyl-2-Pentanone

Concen: 1.040 ug/l

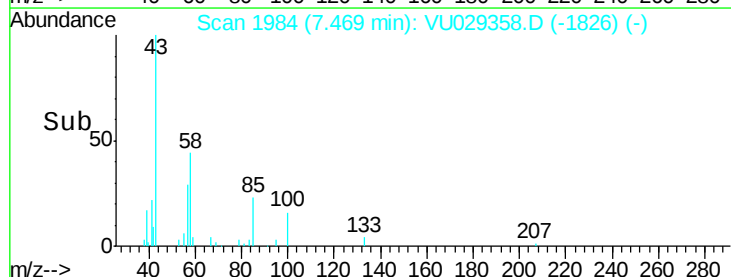
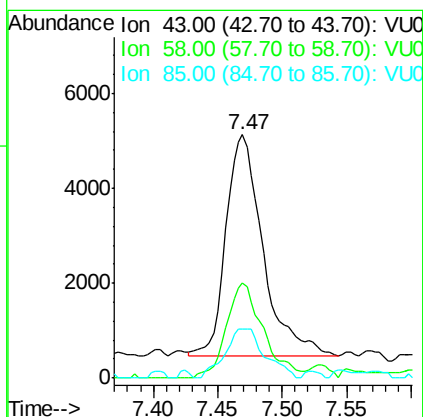
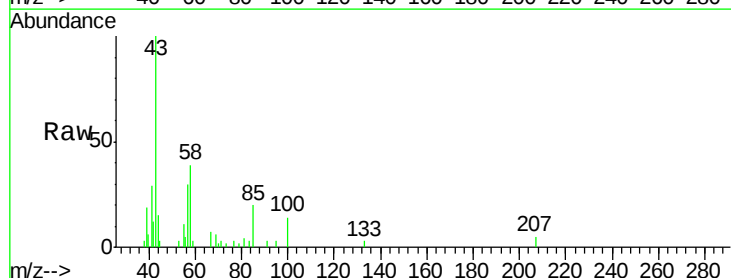
RT: 7.47 min Scan# 1984

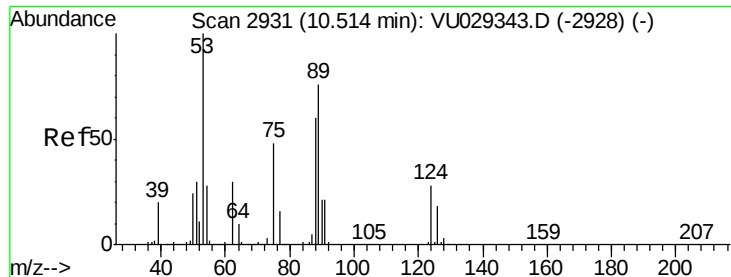
Delta R.T. 0.01 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Tgt Ion:	43	Resp:	9339
Ion	Ratio	Lower	Upper
43	100		
58	42.4	17.6	52.8
85	23.7	12.3	18.5#





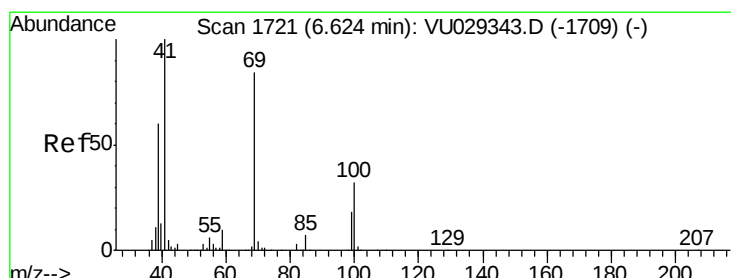
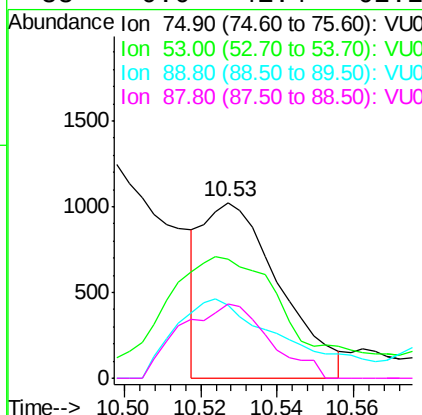
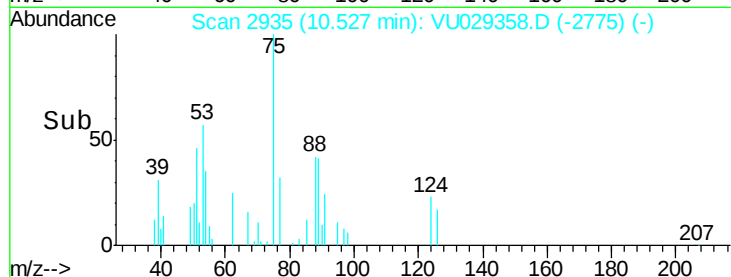
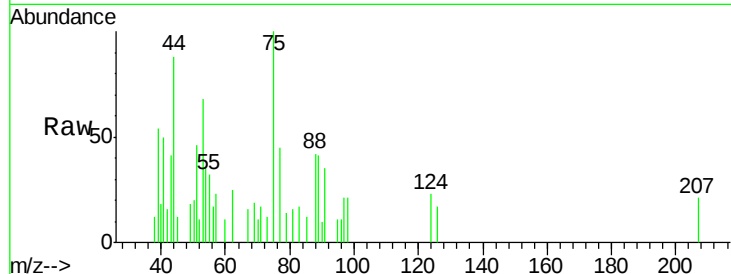
#46
t-1,4-Dichloro-2-butene
Concen: 0.327 ug/l m
RT: 10.53 min Scan# 2935
Delta R.T. 0.01 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
53	10.1	78.2	117.4#
89	0.0	44.2	66.4#
88	0.0	41.4	62.2#

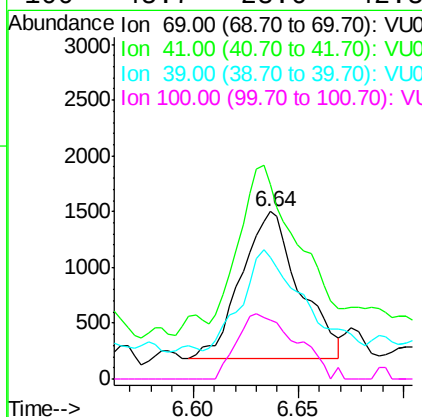
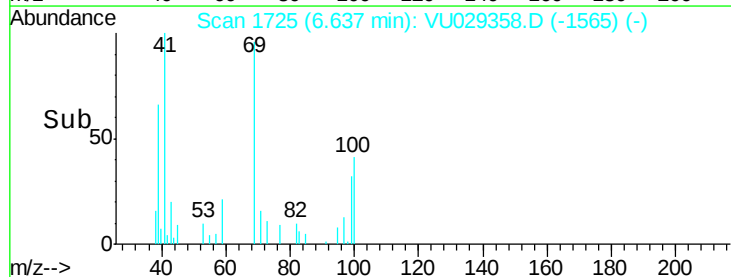
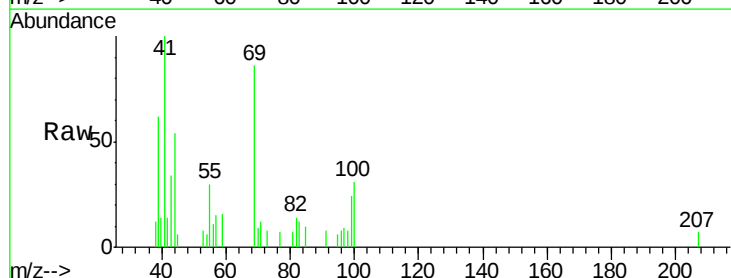
Manual Integrations
APPROVED

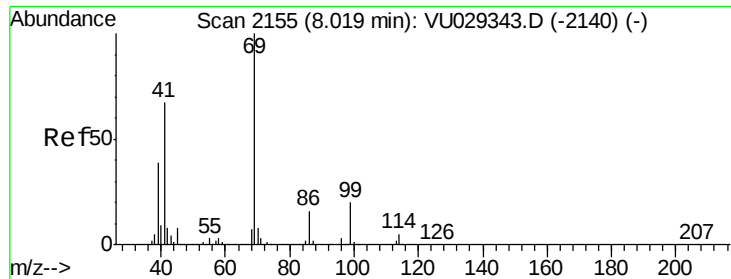
sam
2/8/2019 2:27:26 PM



#47
Methyl methacrylate
Concen: 0.376 ug/l
RT: 6.64 min Scan# 1725
Delta R.T. 0.01 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
69	100		
41	106.7	0.0	296.2
39	72.6	71.2	106.8
100	45.7	28.6	42.8#





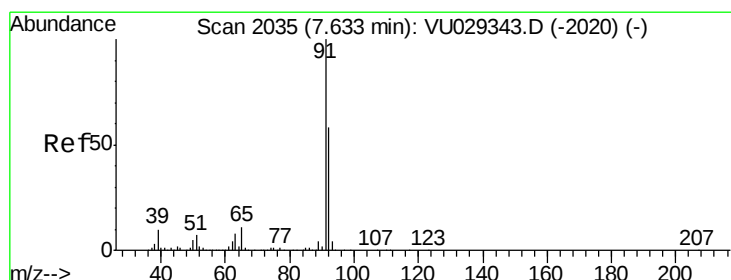
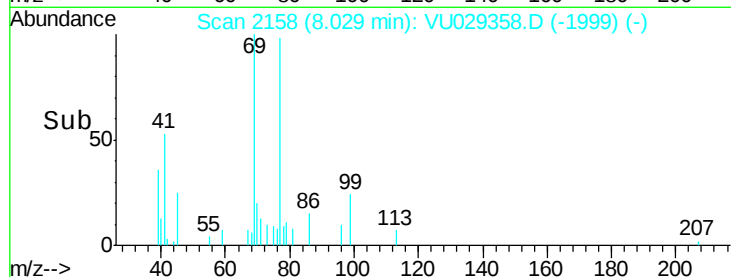
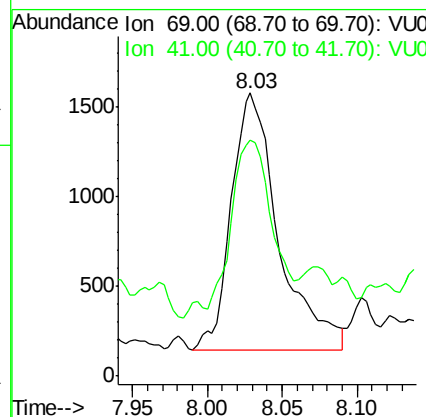
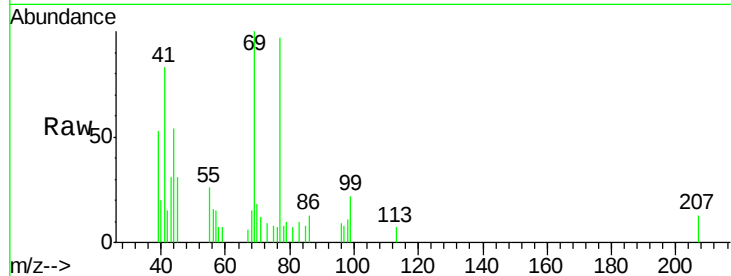
#48
Ethyl methacrylate
Concen: 0.218 ug/l
RT: 8.03 min Scan# 2158
Delta R.T. 0.01 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
69	100		
41	54.3	39.9	119.7

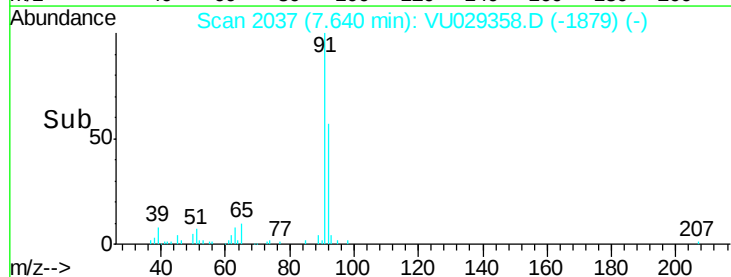
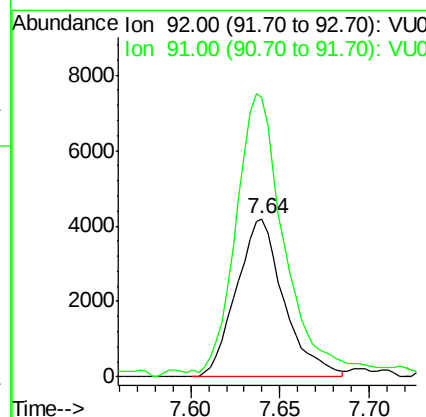
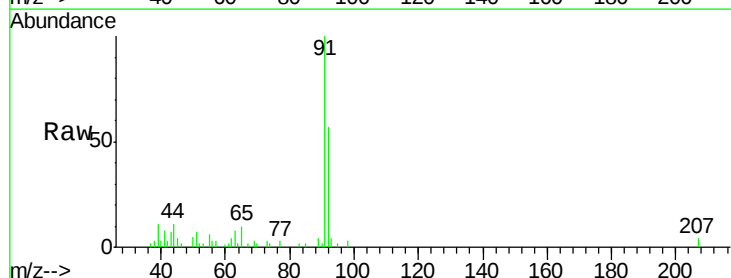
Manual Integrations
APPROVED

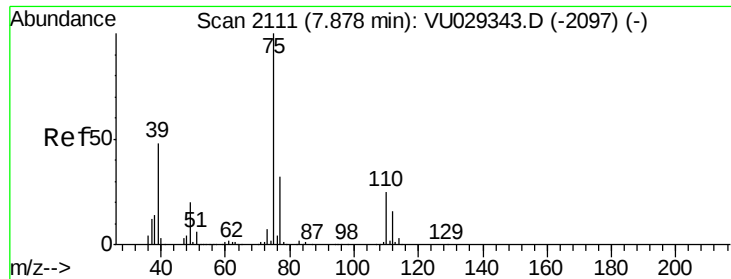
sam
2/8/2019 2:27:26 PM



#49
Toluene
Concen: 0.220 ug/l
RT: 7.64 min Scan# 2037
Delta R.T. 0.01 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
92	100		
91	176.9	140.7	211.1





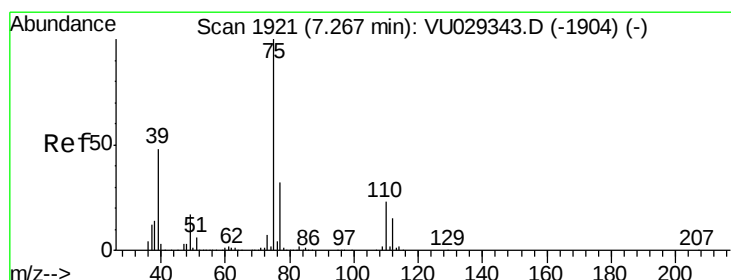
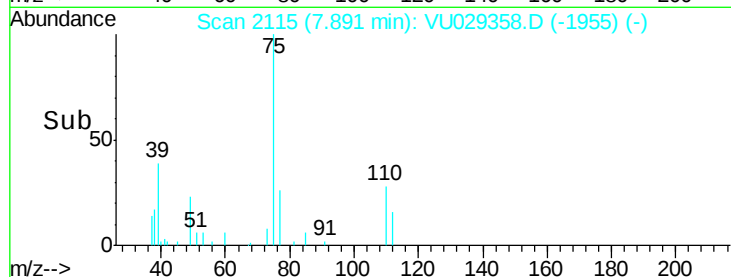
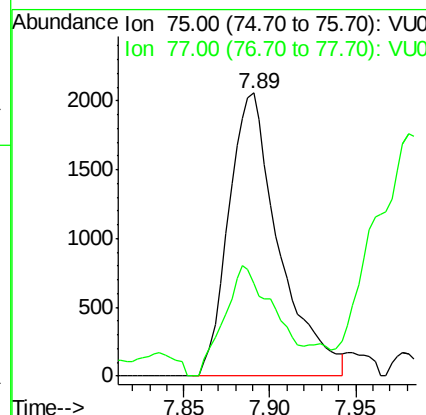
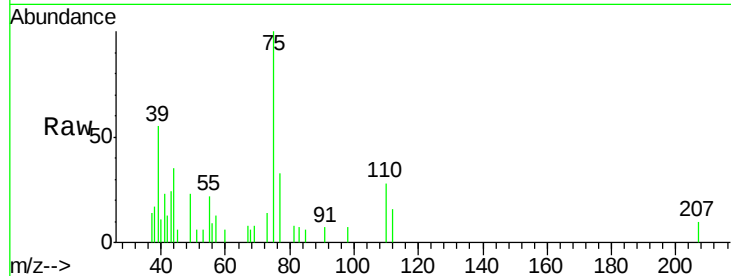
#50
t-1,3-Dichloropropene
Concen: 0.219 ug/l
RT: 7.89 min Scan# 2115
Delta R.T. 0.01 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.8	23.6	35.4

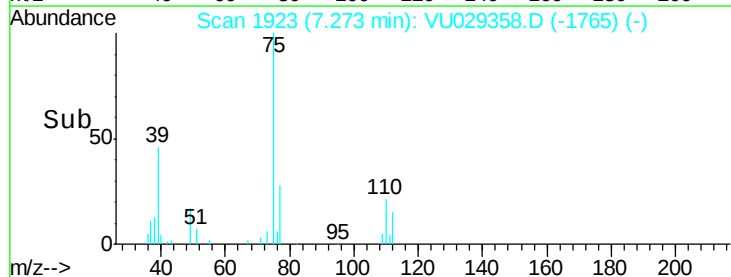
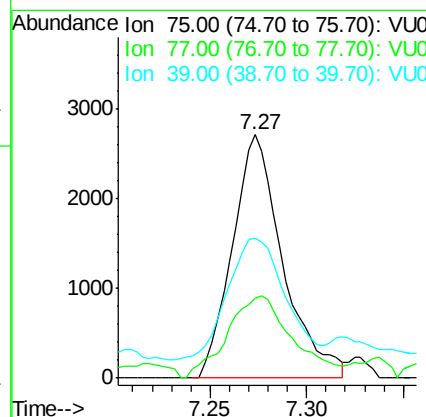
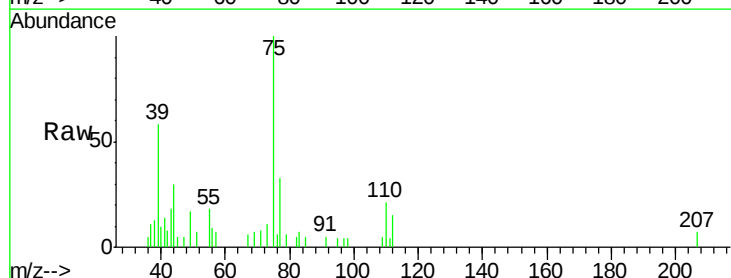
Manual Integrations
APPROVED

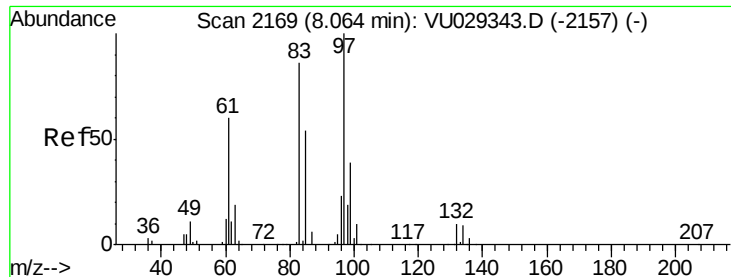
sam
2/8/2019 2:27:26 PM



#51
cis-1,3-Dichloropropene
Concen: 0.216 ug/l
RT: 7.27 min Scan# 1923
Delta R.T. 0.01 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
75	100		
77	28.8	24.9	37.3
39	48.3	47.2	70.8





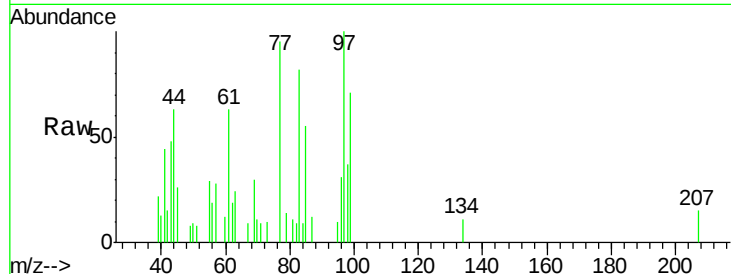
#52
 1,1,2-Trichloroethane
 Concen: 0.217 ug/l
 RT: 8.07 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

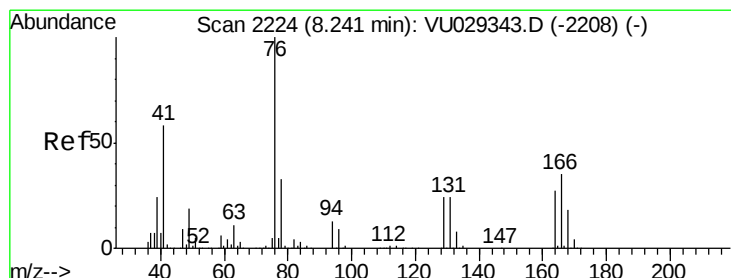
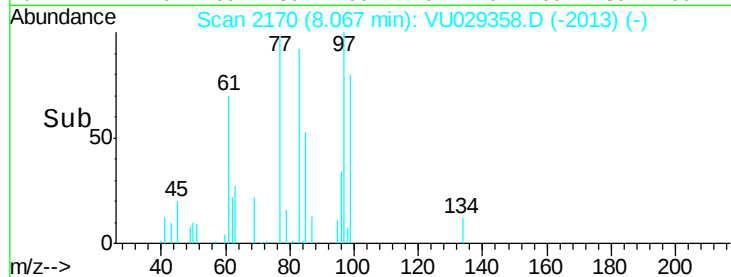
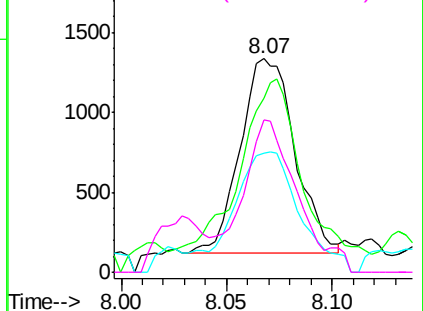
Tot Ion:	97	Resp:	2197
Ion	Ratio	Lower	Upper
97	100		
83	75.3	69.9	104.9
85	51.9	45.8	68.6
99	65.7	50.2	75.2

Manual Integrations
 APPROVED

sam
 2/8/2019 2:27:26 PM

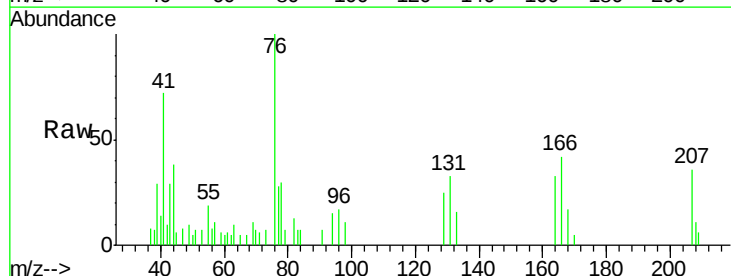


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 84.95 (84.65 to 85.65): VU0
 Ion 98.95 (98.65 to 99.65): VU0

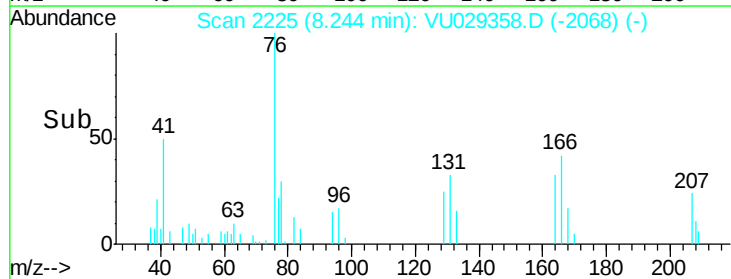
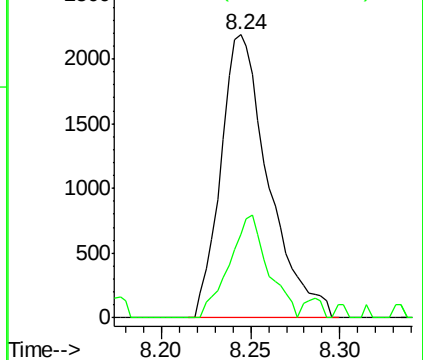


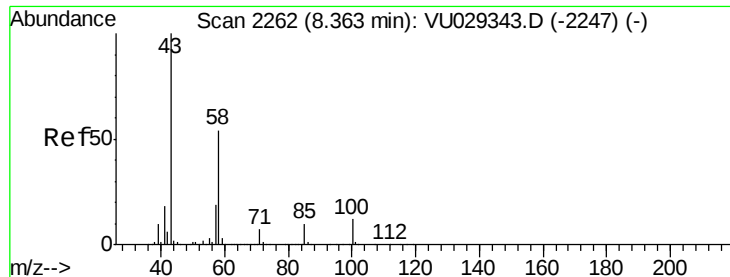
#53
 1,3-Dichloropropane
 Concen: 0.228 ug/l
 RT: 8.24 min Scan# 2225
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Tgt Ion:	76	Resp:	4064
Ion	Ratio	Lower	Upper
76	100		
78	29.4	26.3	39.5



Abundance Ion 76.00 (75.70 to 76.70): VU0
 Ion 78.00 (77.70 to 78.70): VU0





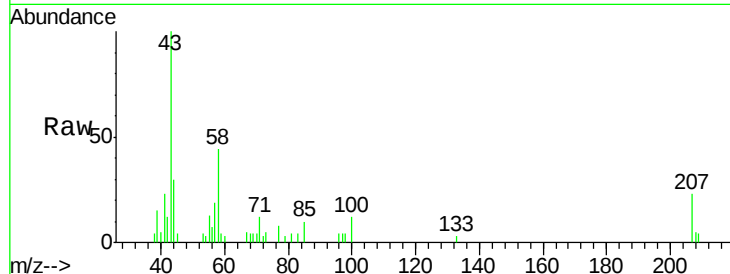
#54
2-Hexanone
Concen: 1.000 ug/l
RT: 8.37 min Scan# 2265
Delta R.T. 0.01 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
MDL04

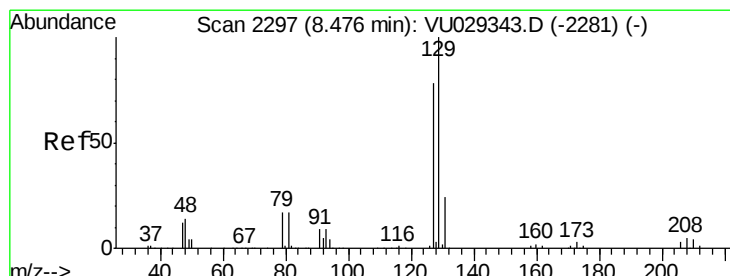
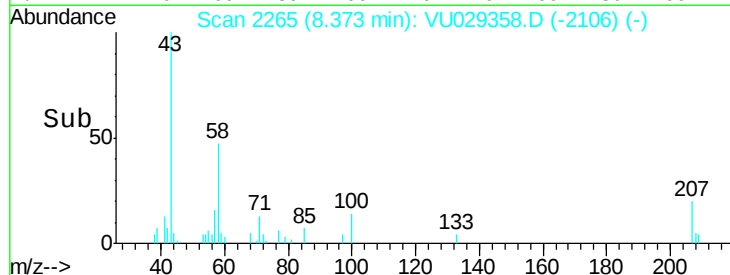
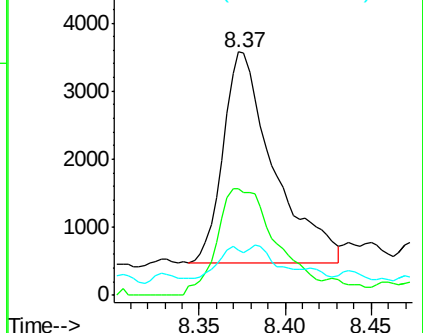
Tot Ion	Ratio	Lower	Upper
43	100		
58	60.1	26.0	66.0
57	7.5	0.0	37.7

Manual Integrations
APPROVED

sam
2/8/2019 2:27:26 PM

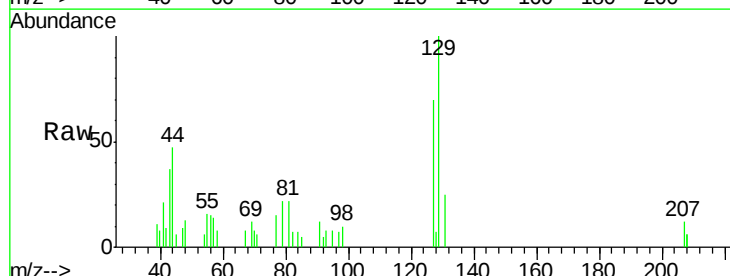


Abundance Ion 43.00 (42.70 to 43.70): VU029343.D (-2247) (-)
Ion 58.00 (57.70 to 58.70): VU029343.D (-2247) (-)
Ion 57.00 (56.70 to 57.70): VU029343.D (-2247) (-)

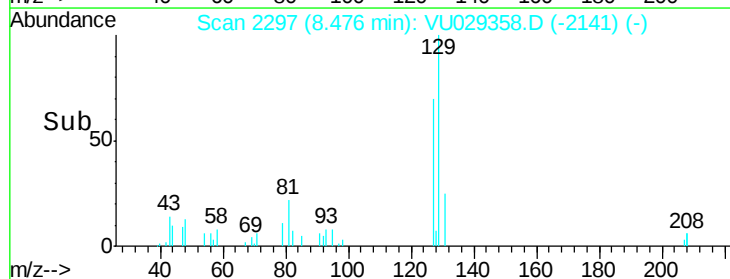
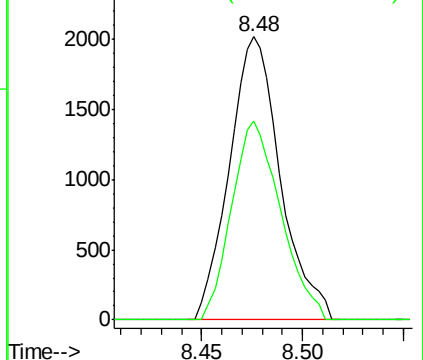


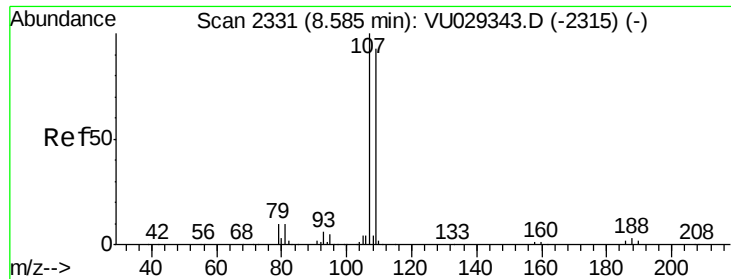
#55
Dibromochloromethane
Concen: 0.247 ug/l
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
129	100		
127	67.8	60.5	90.7



Abundance Ion 129.00 (128.70 to 129.70): VU029343.D (-2281) (-)
Ion 127.00 (126.70 to 127.70): VU029343.D (-2281) (-)





#56

1,2-Dibromoethane

Concen: 0.206 ug/l

RT: 8.59 min Scan# 2333

Delta R.T. 0.01 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:107 Resp: 2139

Ion Ratio Lower Upper

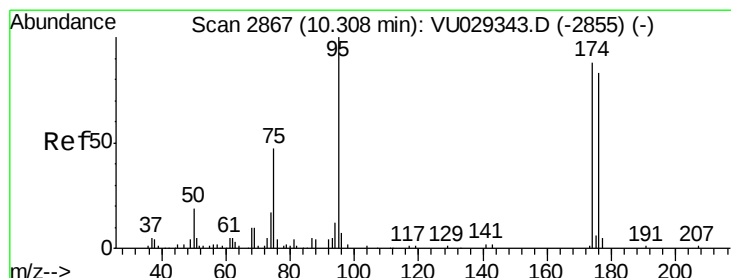
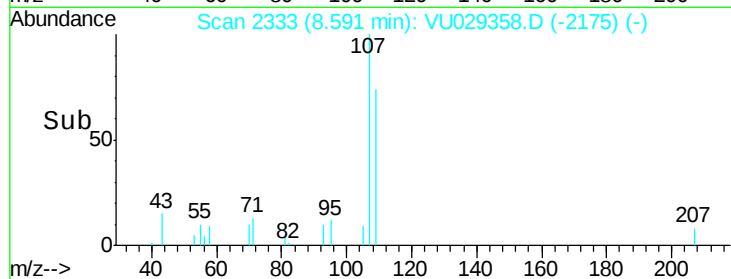
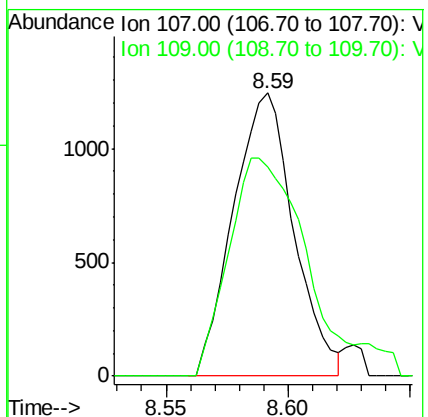
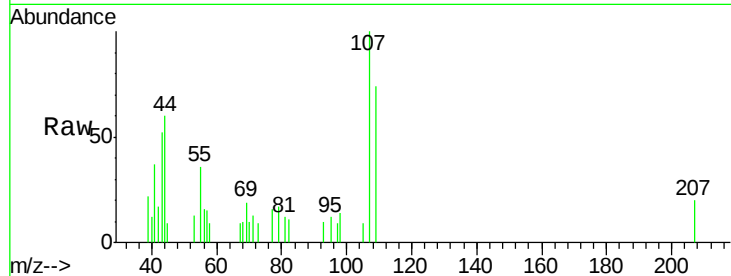
107 100

109 102.0 0.0 189.6

Manual Integrations
APPROVED

sam

2/8/2019 2:27:26 PM



#57

4-Bromofluorobenzene

Concen: 0.206 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

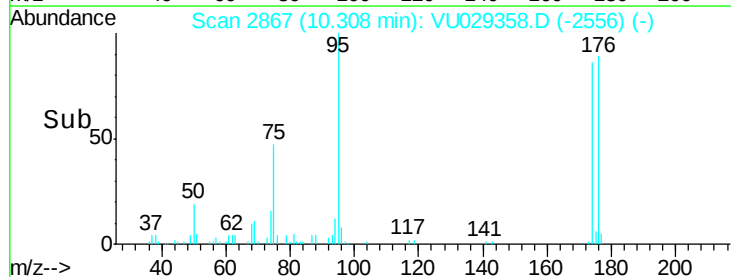
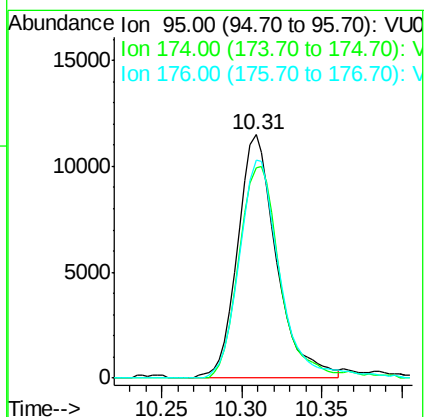
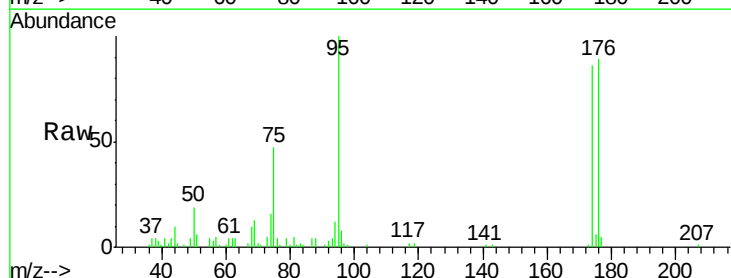
Tgt Ion: 95 Resp: 19056

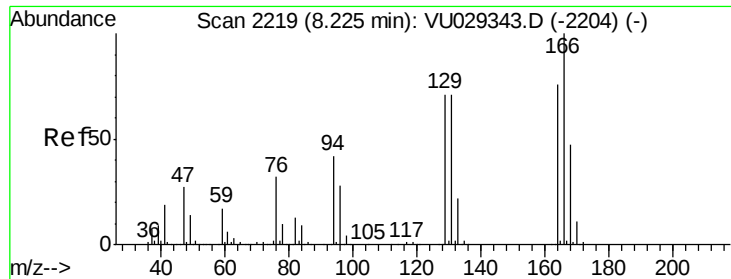
Ion Ratio Lower Upper

95 100

174 90.8 64.2 96.2

176 93.6 62.3 93.5#





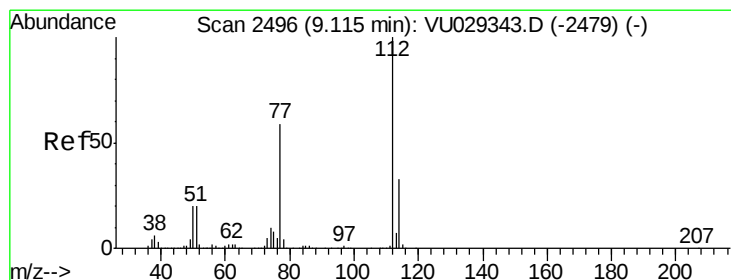
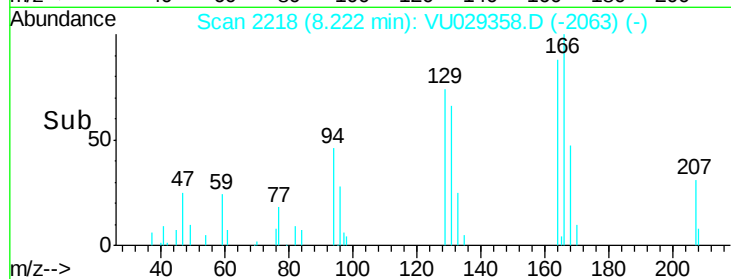
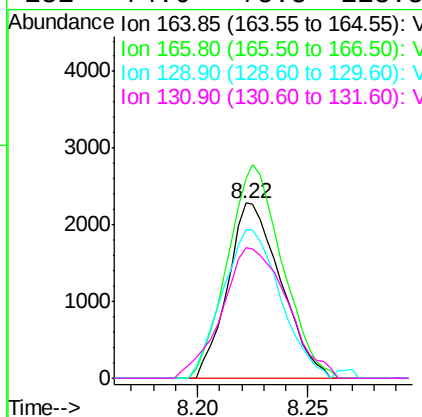
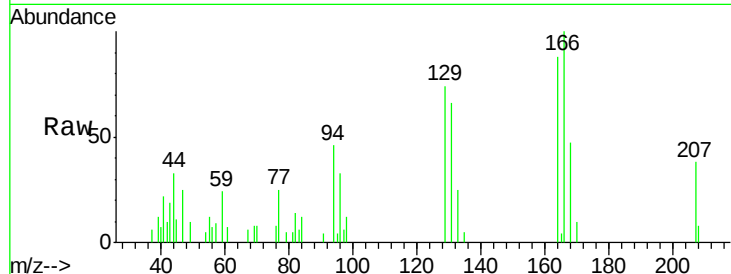
#58
 Tetrachloroethene
 Concen: 0.259 ug/l
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion:	164	Resp:	3819
Ion	Ratio	Lower	Upper
164	100		
166	113.9	106.6	159.8
129	84.8	79.9	119.9
131	74.6	75.8	113.8#

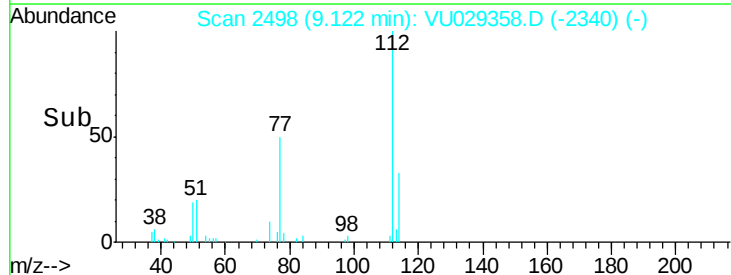
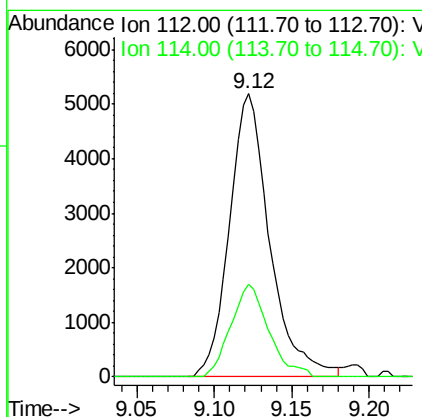
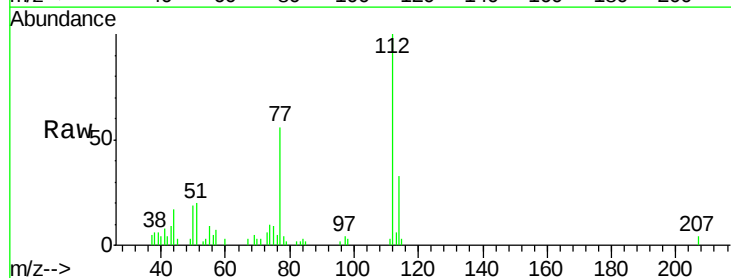
Manual Integrations
 APPROVED

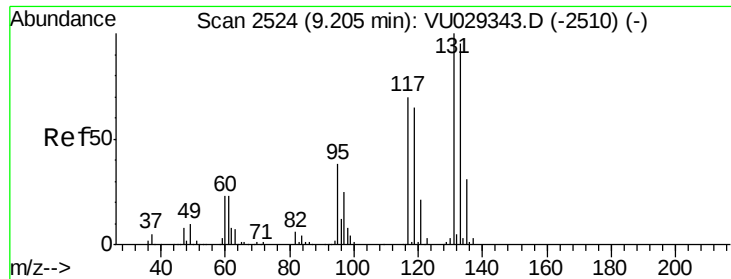
sam
 2/8/2019 2:27:26 PM



#59
 Chlorobenzene
 Concen: 0.236 ug/l
 RT: 9.12 min Scan# 2498
 Delta R.T. 0.01 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Tgt Ion:	112	Resp:	9386
Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.2	39.4





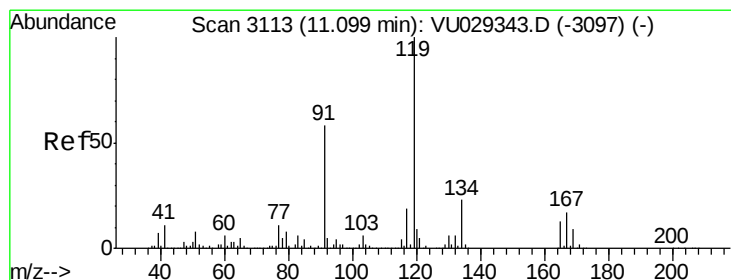
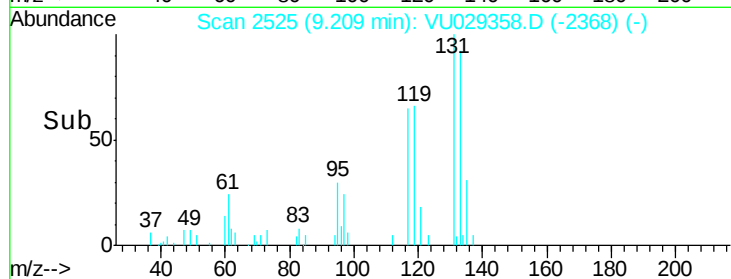
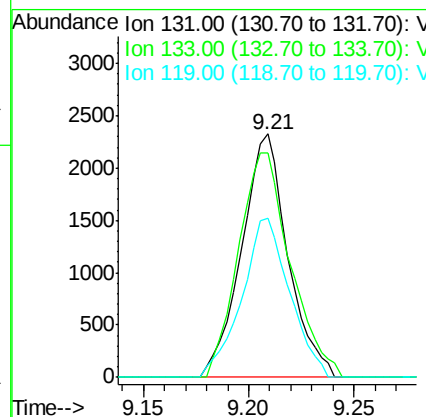
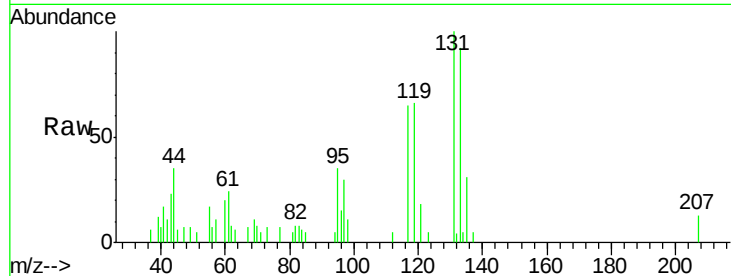
#60
 1,1,1,2-Tetrachloroethane
 Concen: 0.241 ug/l
 RT: 9.21 min Scan# 2525
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
131	100		
133	103.0	77.3	115.9
119	67.6	48.9	73.3

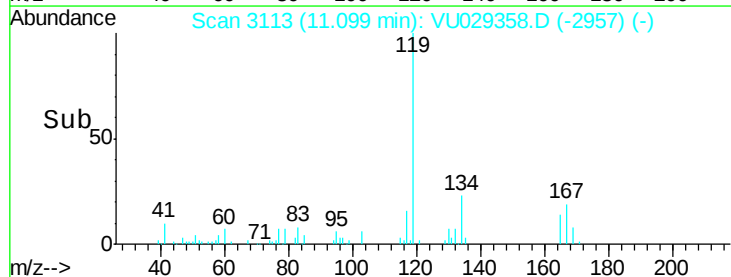
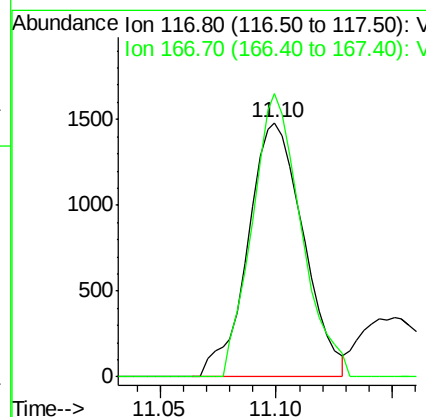
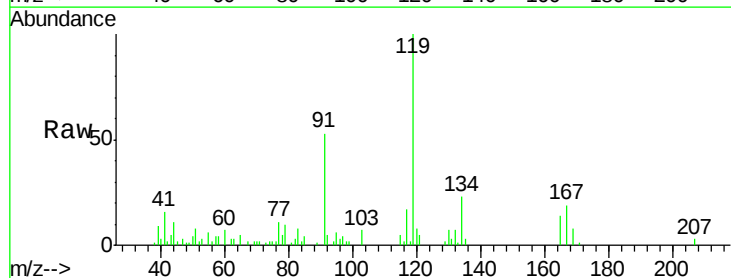
Manual Integrations
 APPROVED

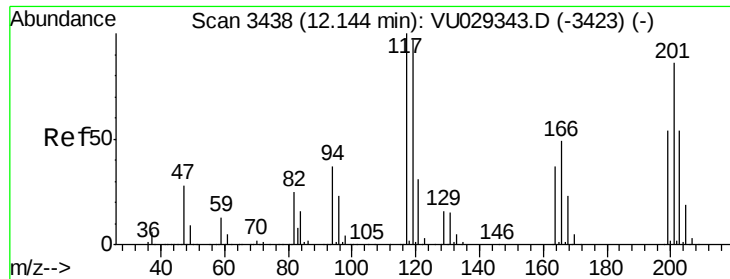
sam
 2/8/2019 2:27:26 PM



#61
 Pentachloroethane
 Concen: 0.216 ug/l
 RT: 11.10 min Scan# 3113
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
117	100		
167	98.3	65.9	98.9





#62

Hexachloroethane

Concen: 0.224 ug/l

RT: 12.14 min Scan# 3438

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:117 Resp: 2796

Ion Ratio Lower Upper

117 100

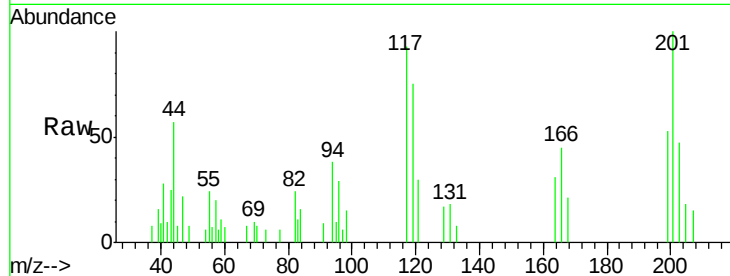
201 98.7 68.2 102.2

Manual Integrations

APPROVED

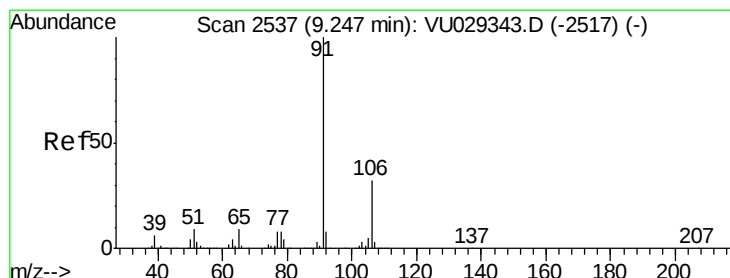
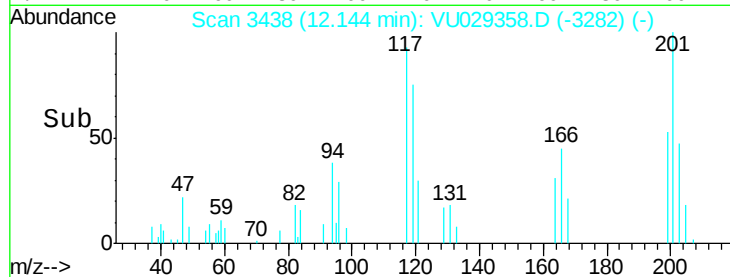
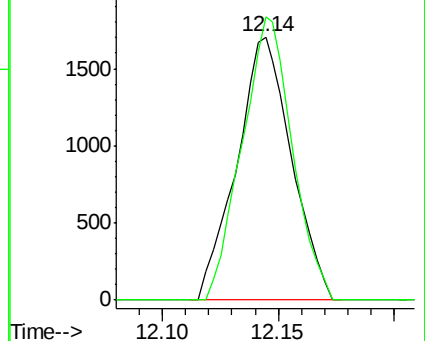
sam

2/8/2019 2:27:26 PM



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V



#63

Ethyl Benzene

Concen: 0.235 ug/l

RT: 9.25 min Scan# 2538

Delta R.T. 0.00 min

Lab File: VU029358.D

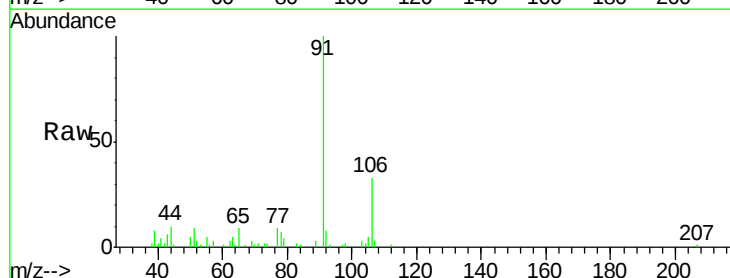
Acq: 06 Feb 2019 11:54

Tgt Ion: 91 Resp: 16241

Ion Ratio Lower Upper

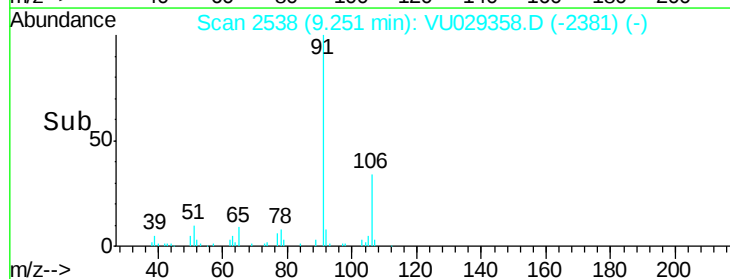
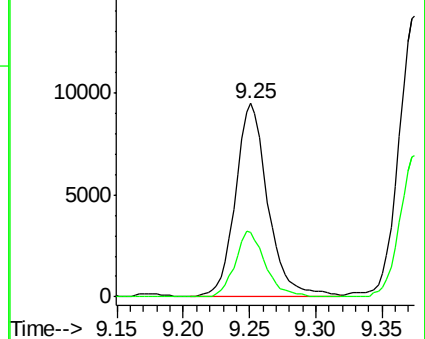
91 100

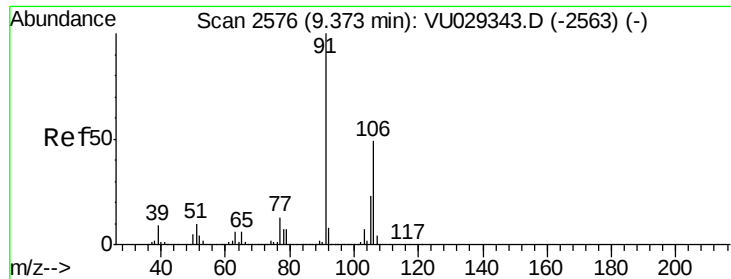
106 33.3 23.8 35.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#64

m/p-Xylenes

Concen: 0.449 ug/l

RT: 9.38 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:106 Resp: 12064

Ion Ratio Lower Upper

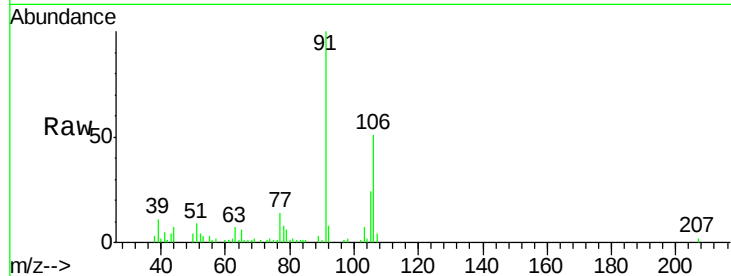
106 100

91 202.9 174.6 261.8

Manual Integrations
APPROVED

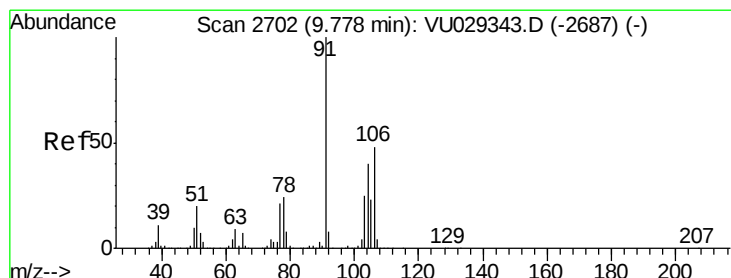
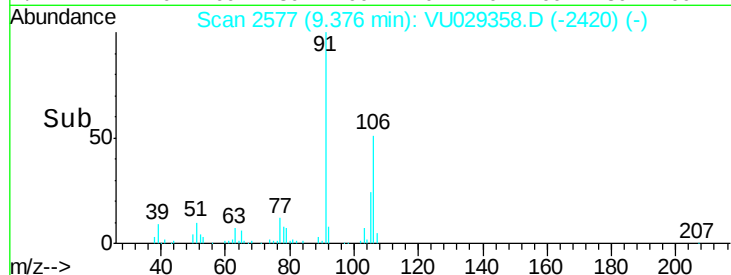
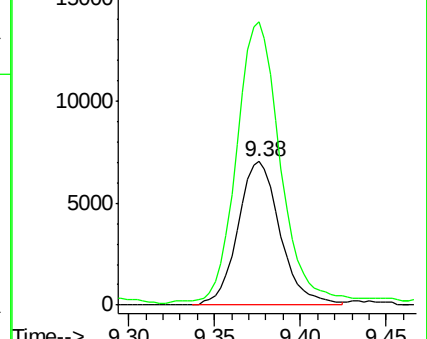
sam

2/8/2019 2:27:26 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 0.238 ug/l

RT: 9.78 min Scan# 2703

Delta R.T. 0.00 min

Lab File: VU029358.D

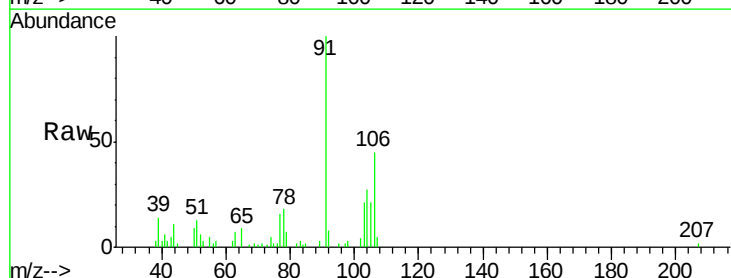
Acq: 06 Feb 2019 11:54

Tgt Ion:106 Resp: 6277

Ion Ratio Lower Upper

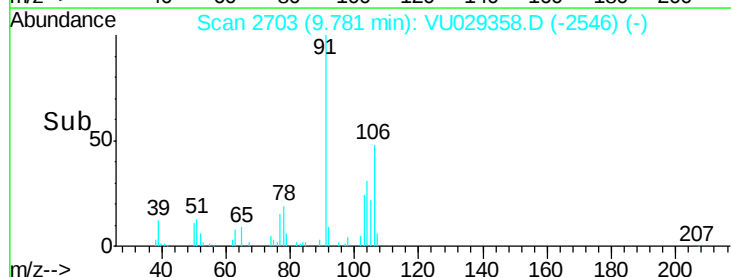
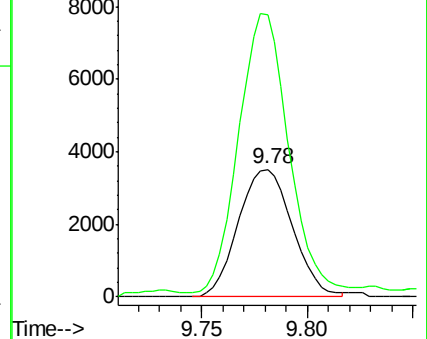
106 100

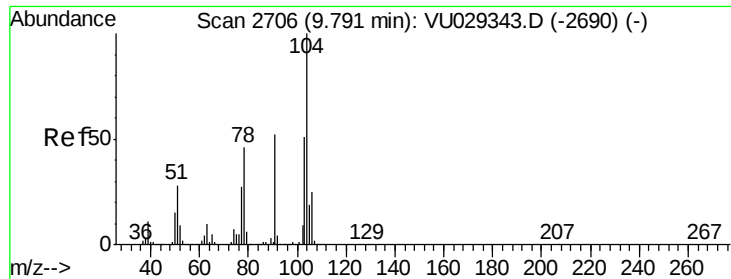
91 200.4 114.5 343.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





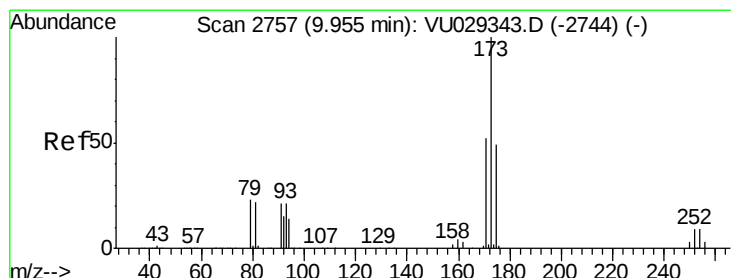
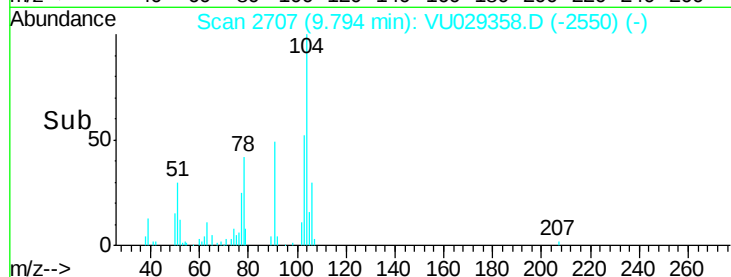
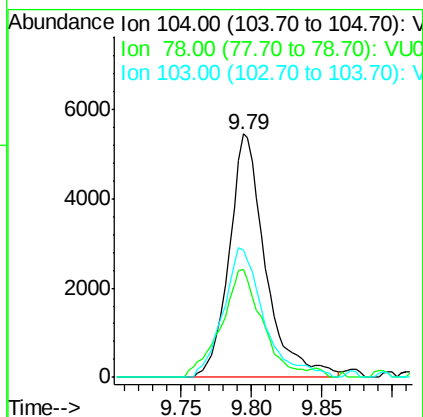
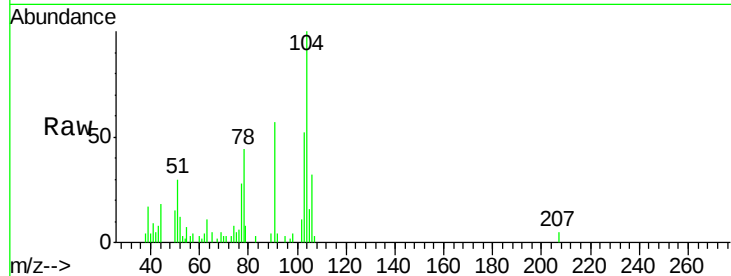
#66
Stvrene
Concen: 0.223 ug/l
RT: 9.79 min Scan# 2707
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.0	46.5	69.7
103	59.3	44.7	67.1

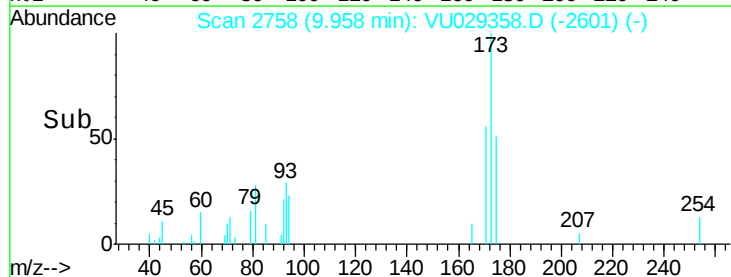
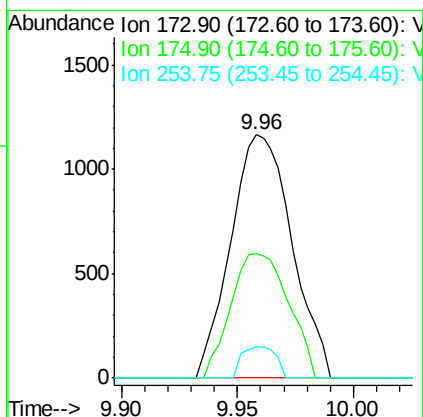
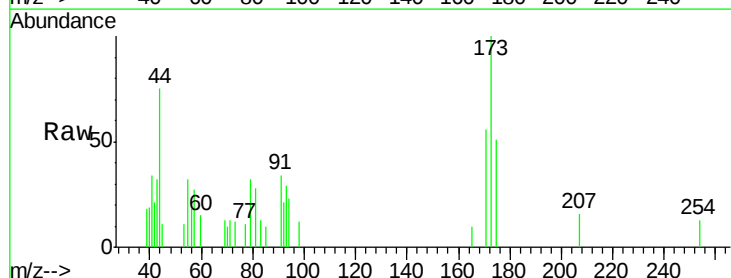
Manual Integrations
APPROVED

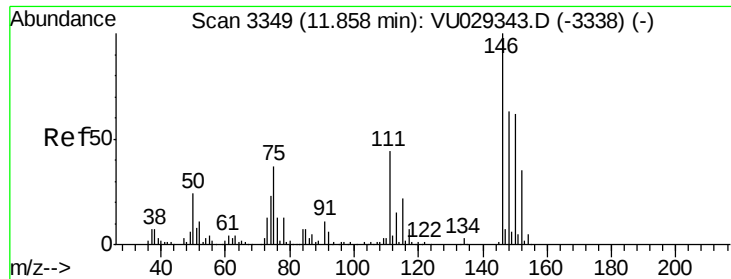
sam
2/8/2019 2:27:26 PM



#67
Bromoform
Concen: 0.238 ug/l
RT: 9.96 min Scan# 2758
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.9	58.3
254	7.0	7.4	11.2#





#68

1,2-Dichlorobenzene-d4

Concen: 0.238 ug/l

RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

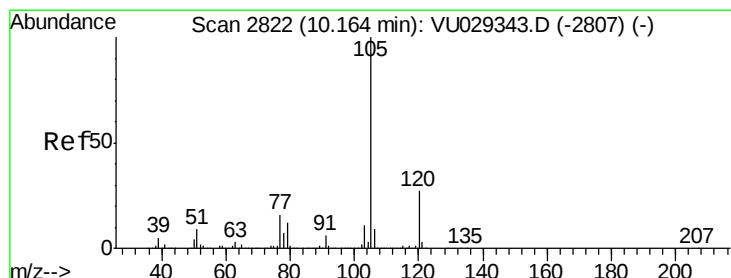
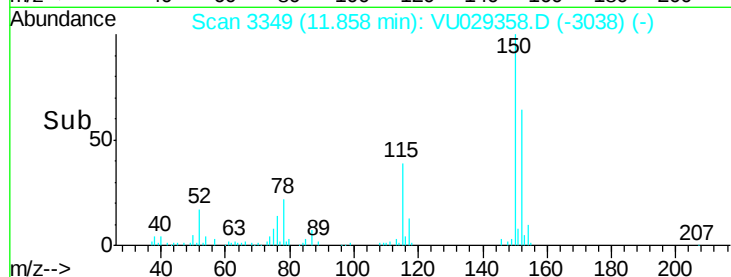
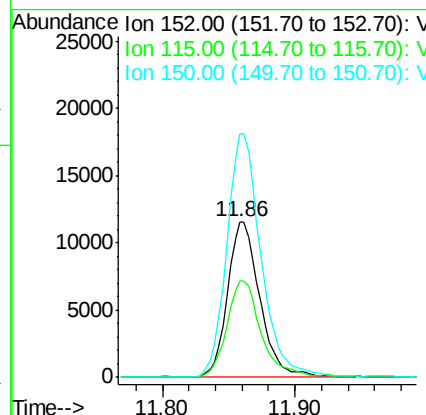
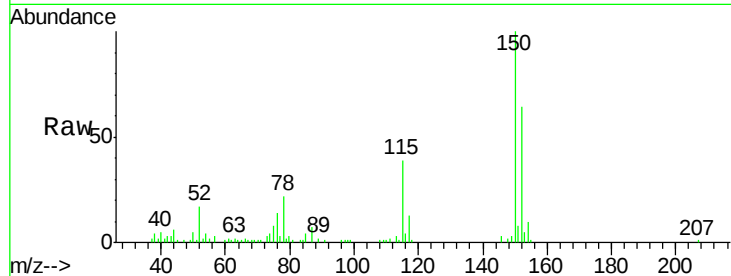
ClientSampleId :

MDL04

Tot Ion	Ratio	Lower	Upper
152	100		
115	65.7	0.0	133.4
150	165.4	0.0	670.8

Manual Integrations
APPROVED

sam
2/8/2019 2:27:26 PM



#69

Isopropylbenzene

Concen: 0.224 ug/l

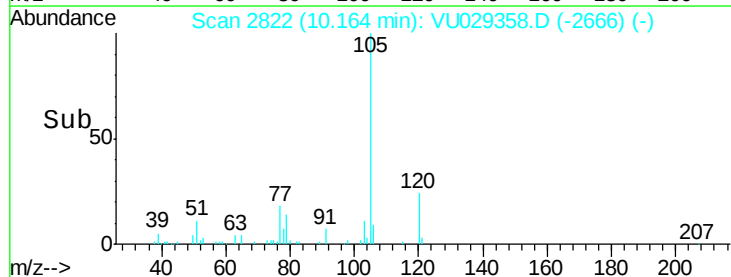
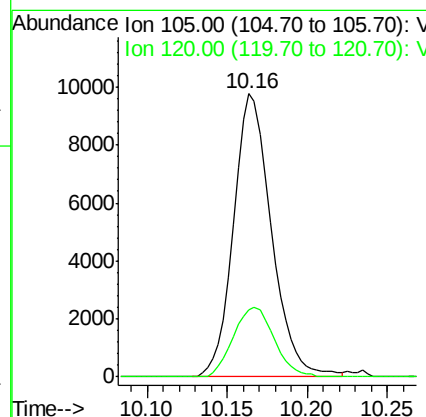
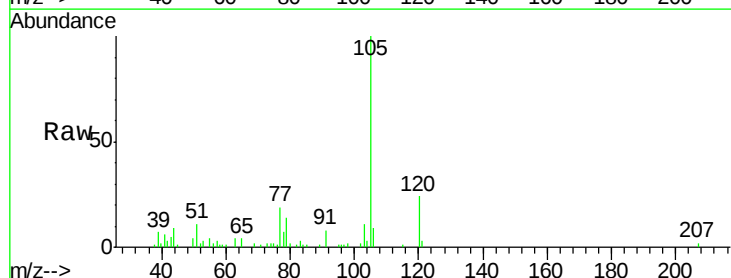
RT: 10.16 min Scan# 2822

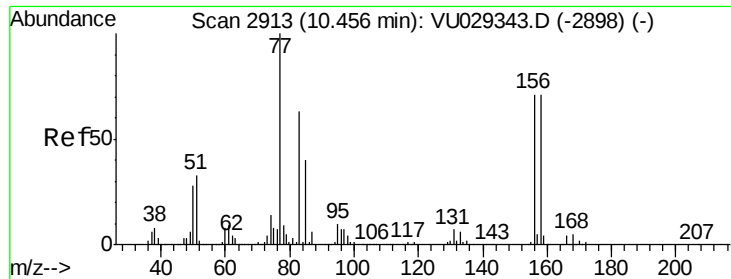
Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.3	12.6	37.6





#70

1,1,2,2-Tetrachloroethane

Concen: 0.269 ug/l

RT: 10.46 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

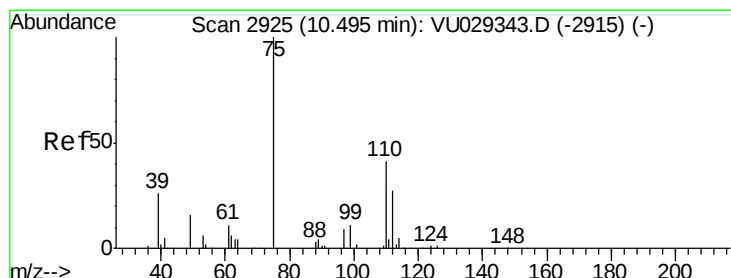
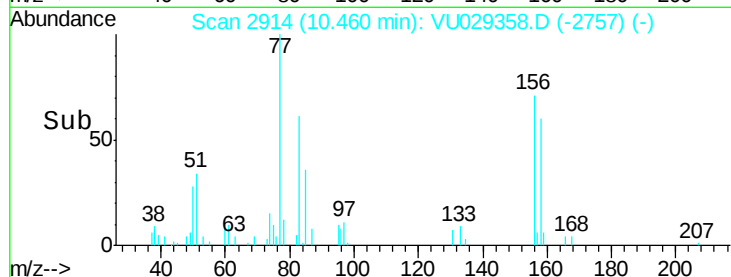
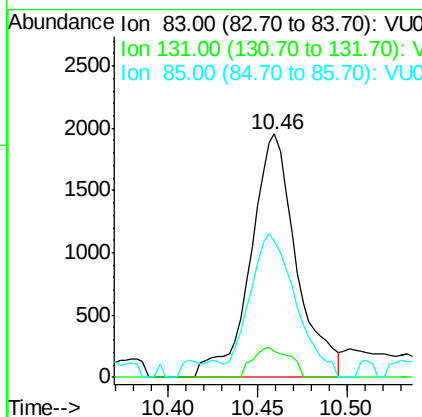
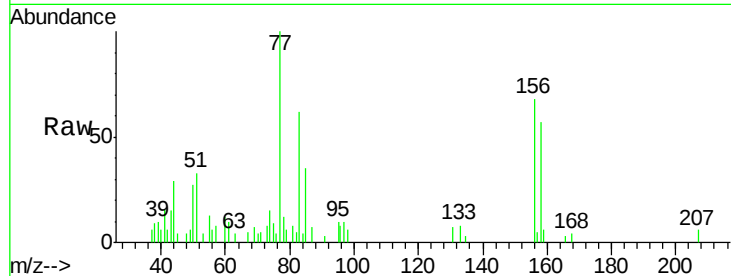
ClientSampled :

MDL04

Tot Ion:	83	Resp:	3498
Ion	Ratio	Lower	Upper
83	100		
131	9.7	8.1	12.1
85	59.6	50.3	75.5

Manual Integrations
APPROVED

sam
2/8/2019 2:27:26 PM



#71

1,2,3-Trichloropropane

Concen: 0.288 ug/l m

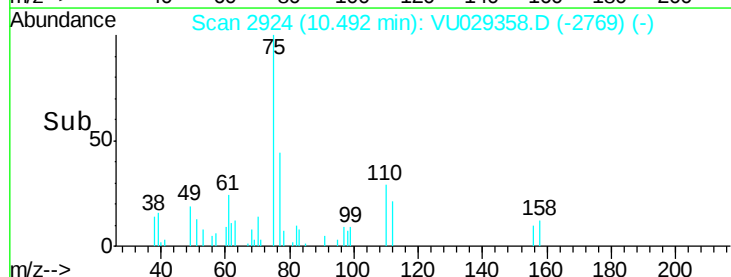
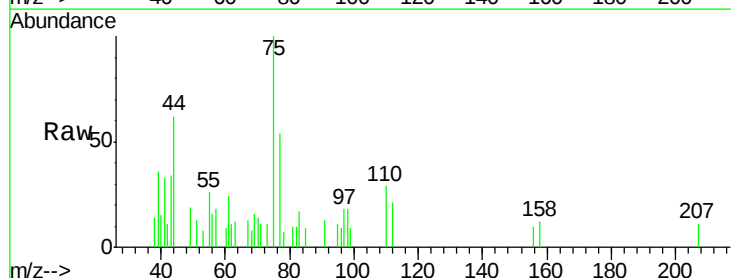
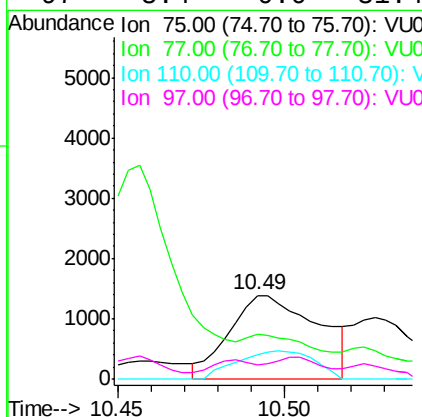
RT: 10.49 min Scan# 2924

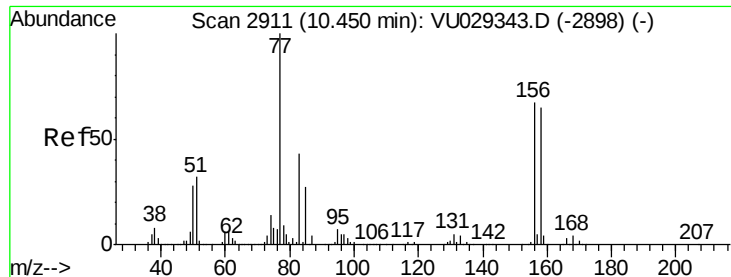
Delta R.T. -0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Tgt Ion:	75	Resp:	2568
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	29.4	0.0	63.6
97	8.4	0.0	31.4





#72

Bromobenzene

Concen: 0.234 ug/l

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

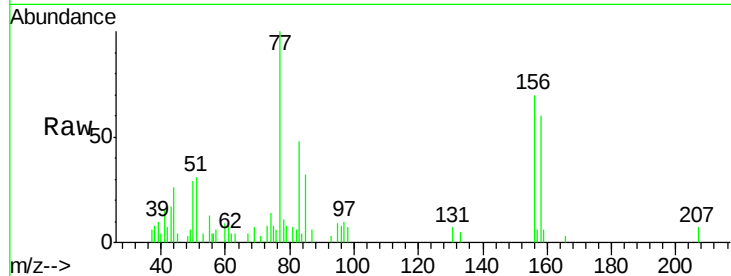
ClientSampleId :

MDL04

Tot Ion:	156	Resp:	4000
Ion Ratio	Lower	Upper	
156	100		
77	144.1	0.0	343.8
158	98.3	0.0	195.0

Manual Integrations
APPROVED

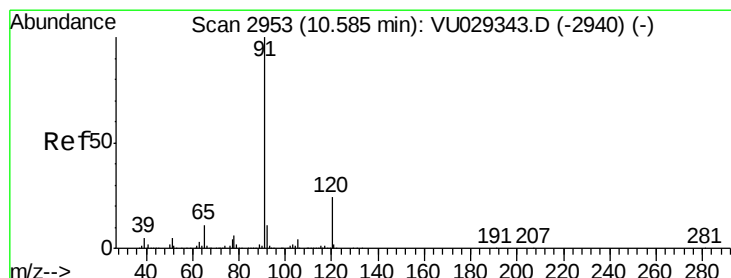
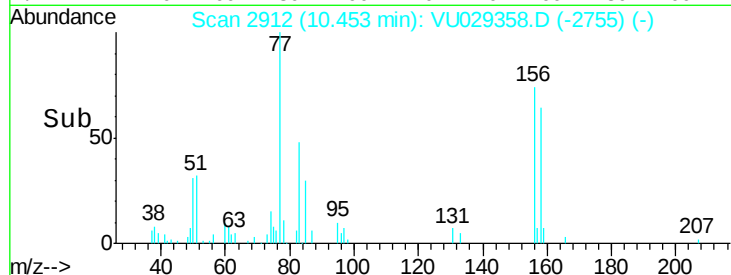
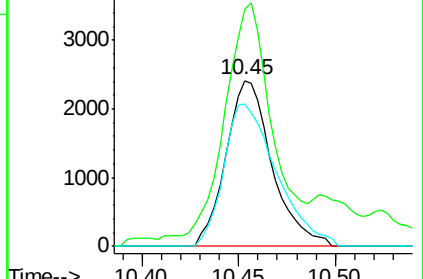
sam
2/8/2019 2:27:26 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 158.00 (157.70 to 158.70): V



#73

n-propylbenzene

Concen: 0.219 ug/l

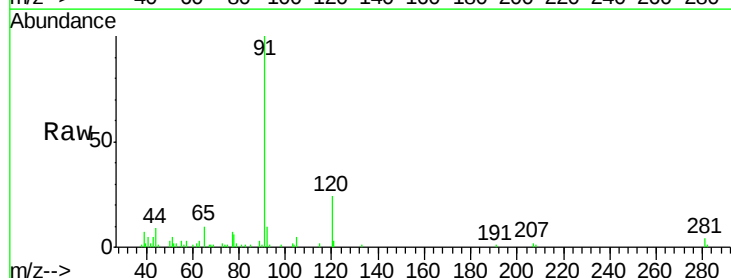
RT: 10.59 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU029358.D

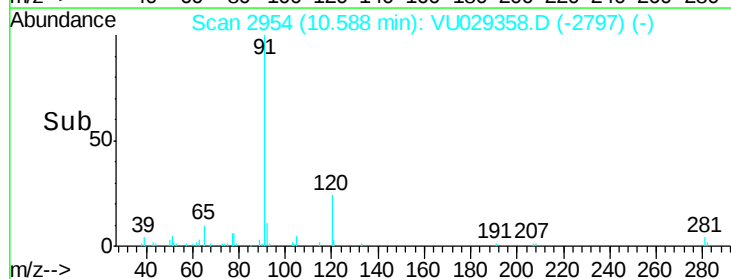
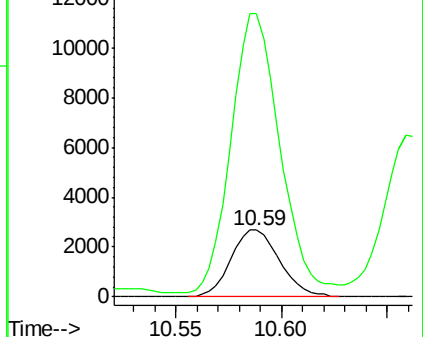
Acq: 06 Feb 2019 11:54

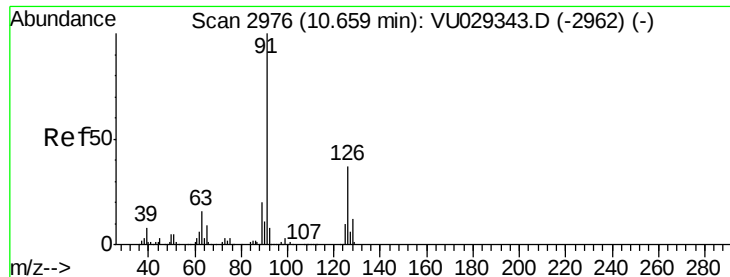
Tgt Ion:	120	Resp:	4311
Ion Ratio	Lower	Upper	
120	100		
91	428.1	370.0	555.0



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0





#74

2-Chlorotoluene

Concen: 0.236 ug/l

RT: 10.67 min Scan# 2978

Delta R.T. 0.01 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:126 Resp: 3955

Ion Ratio Lower Upper

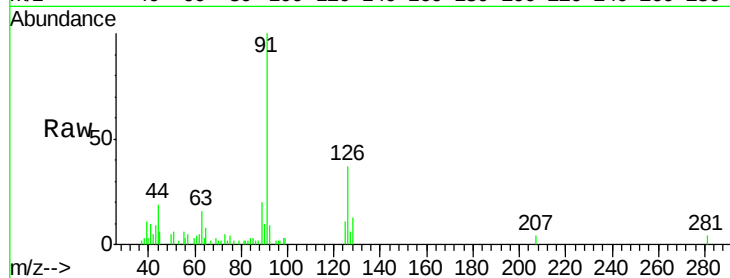
126 100

91 280.4 0.0 643.0

Manual Integrations
APPROVED

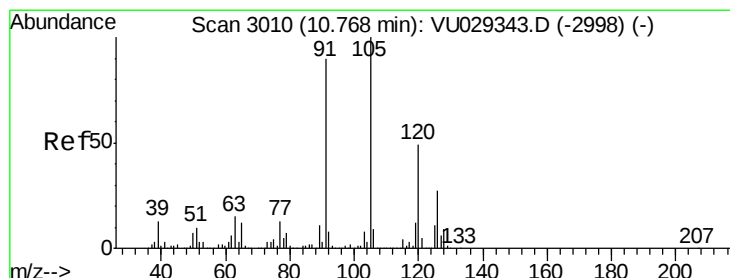
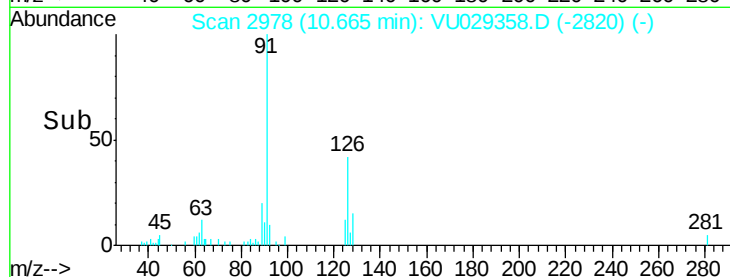
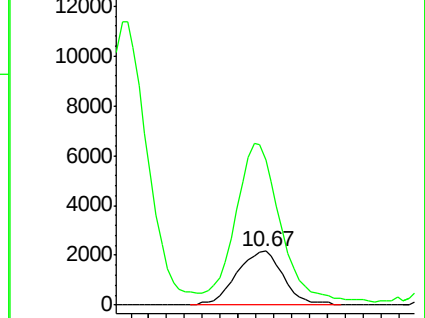
sam

2/8/2019 2:27:26 PM



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



#75

1,3,5-Trimethylbenzene

Concen: 0.220 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU029358.D

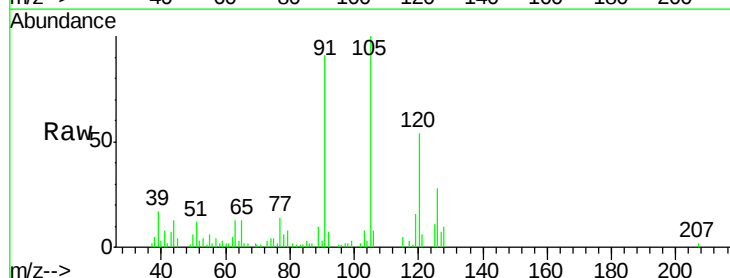
Acq: 06 Feb 2019 11:54

Tgt Ion:105 Resp: 13379

Ion Ratio Lower Upper

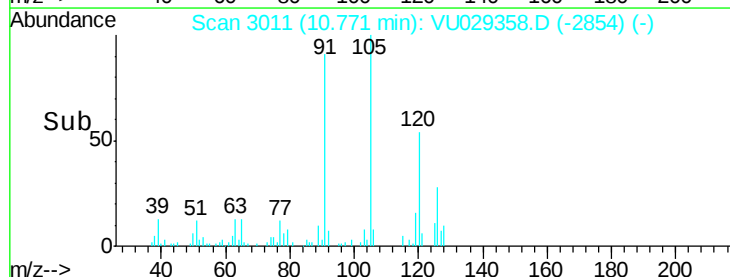
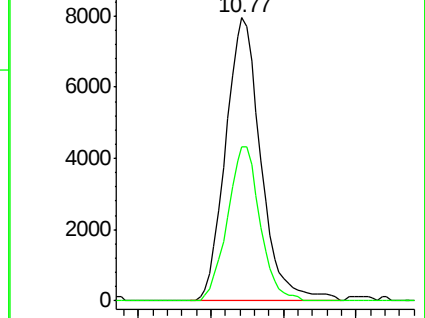
105 100

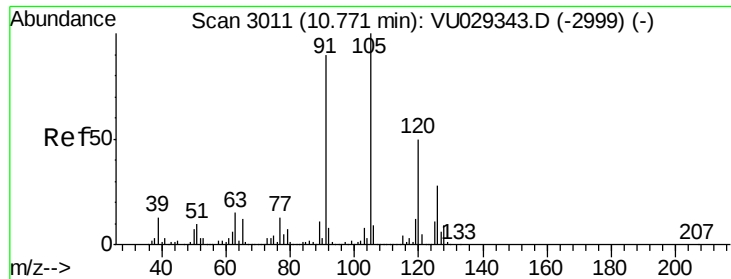
120 50.3 37.3 55.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





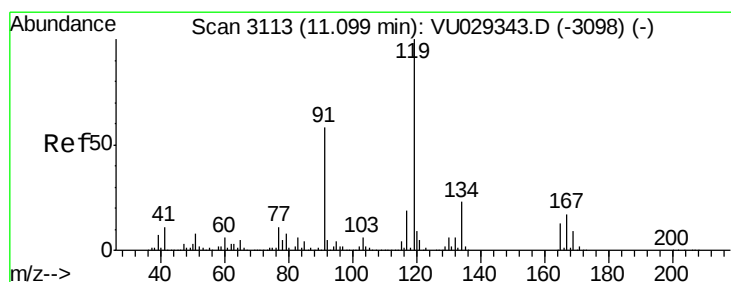
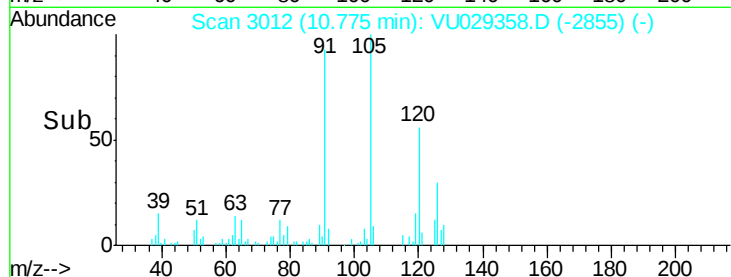
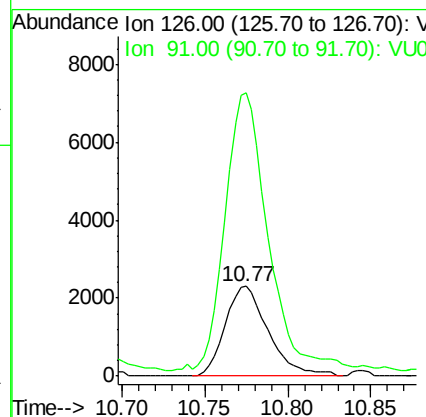
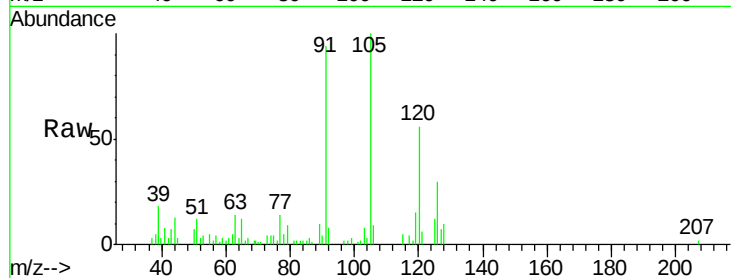
#76
4-Chlorotoluene
Concen: 0.240 ug/l
RT: 10.77 min Scan# 3012
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion:126 Resp: 4168
Ion Ratio Lower Upper
126 100
91 305.4 0.0 727.4

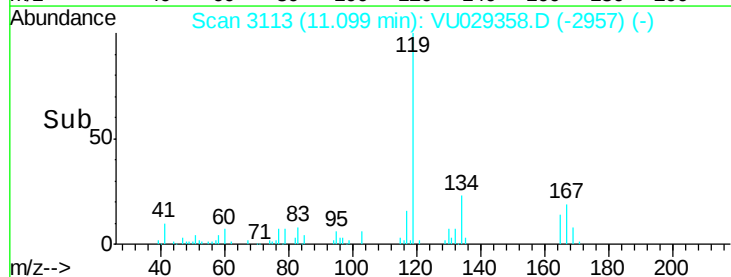
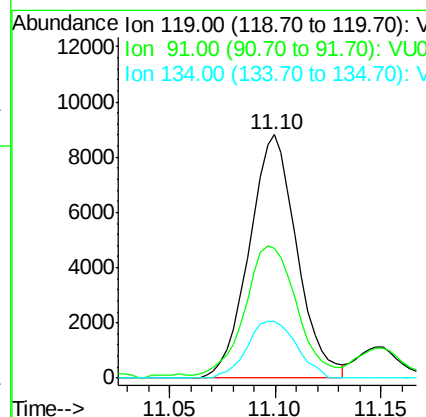
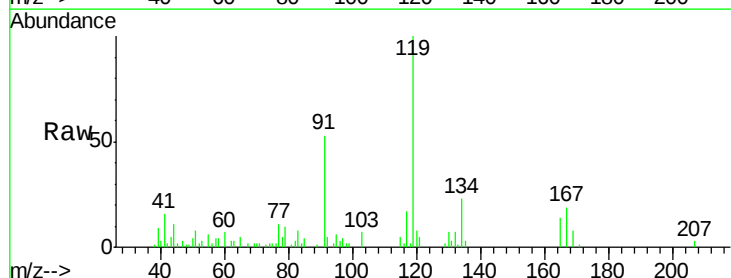
Manual Integrations
APPROVED

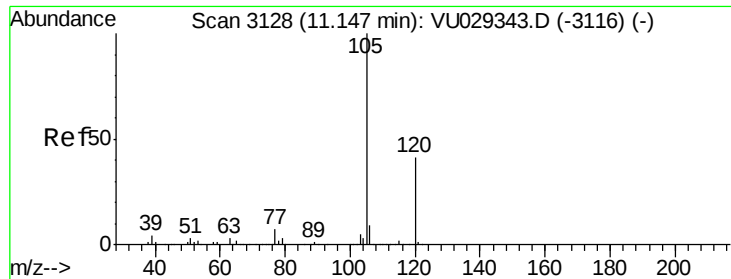
sam
2/8/2019 2:27:26 PM



#77
tert-Butylbenzene
Concen: 0.231 ug/l
RT: 11.10 min Scan# 3113
Delta R.T. 0.00 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion:119 Resp: 13875
Ion Ratio Lower Upper
119 100
91 57.1 32.2 96.6
134 24.2 17.6 26.4





#78

1,2,4-Trimethylbenzene

Concen: 0.242 ug/l

RT: 11.15 min Scan# 3128

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:105 Resp: 14869

Ion Ratio Lower Upper

105 100

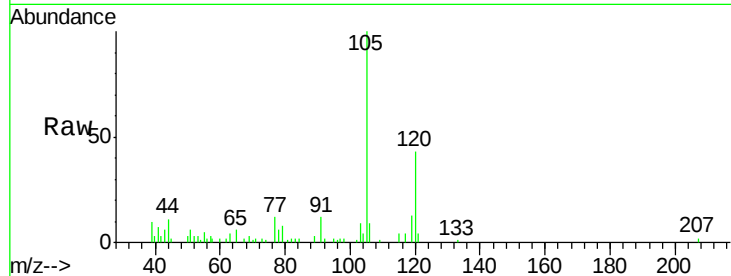
120 42.8 21.4 64.3

Manual Integrations

APPROVED

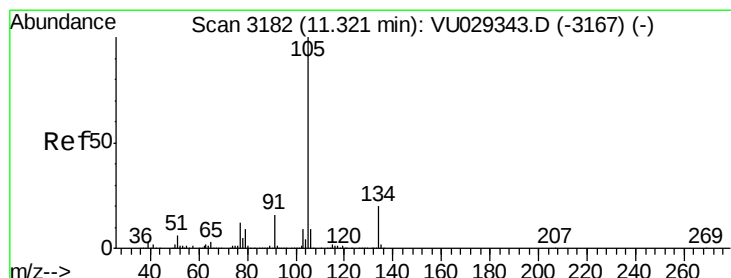
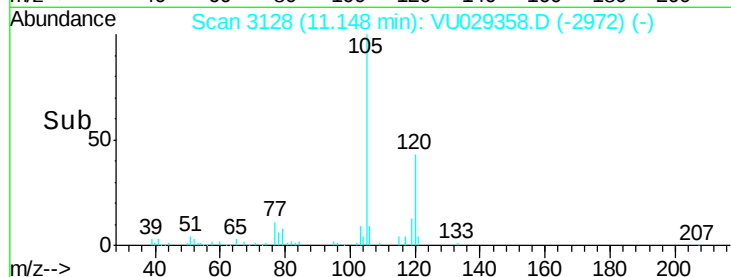
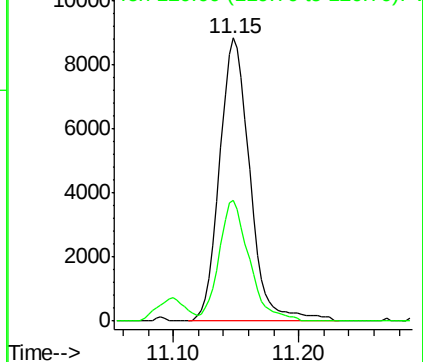
sam

2/8/2019 2:27:26 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#79

sec-Butylbenzene

Concen: 0.228 ug/l

RT: 11.32 min Scan# 3183

Delta R.T. 0.00 min

Lab File: VU029358.D

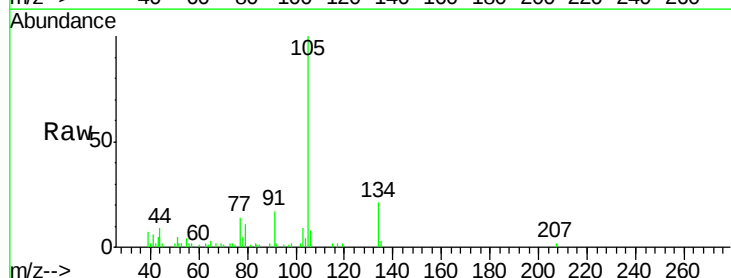
Acq: 06 Feb 2019 11:54

Tgt Ion:105 Resp: 17926

Ion Ratio Lower Upper

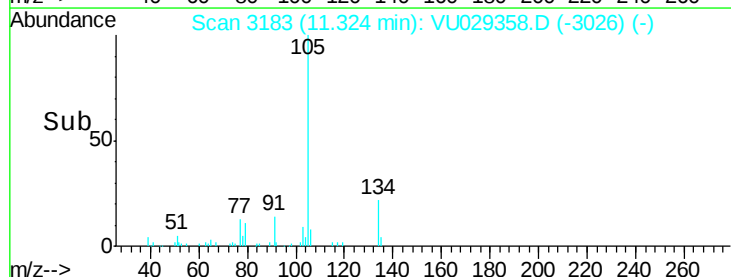
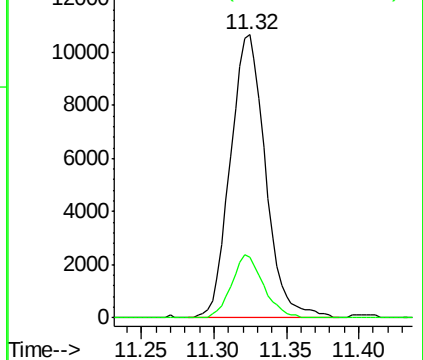
105 100

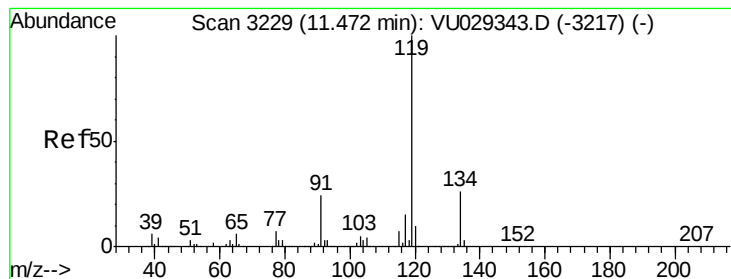
134 20.2 15.0 22.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#81

p-Isopropyltoluene

Concen: 0.231 ug/l

RT: 11.48 min Scan# 3230

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

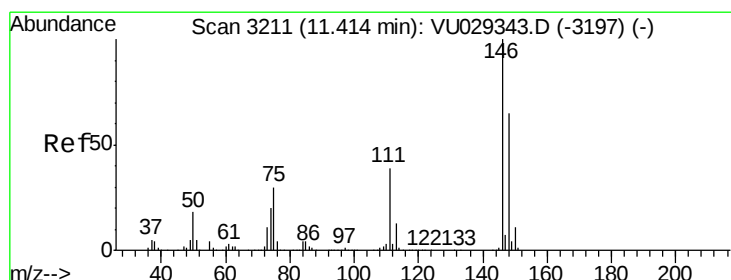
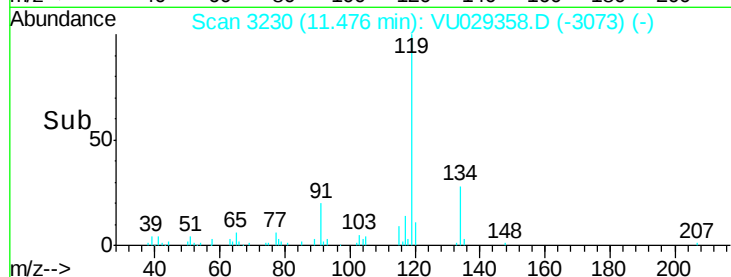
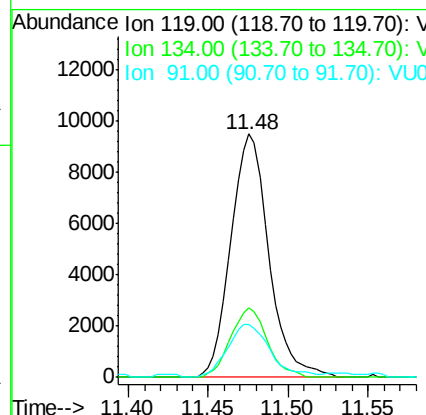
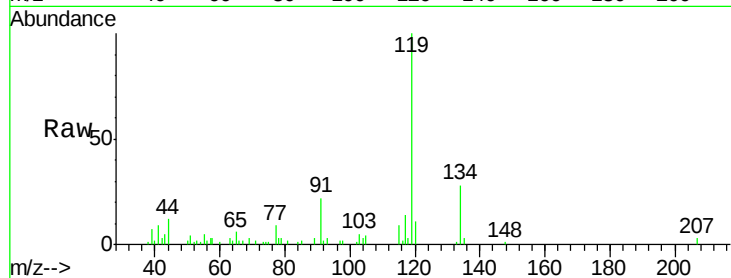
ClientSampled :

MDL04

Tot Ion:	119	Resp:	15396
Ion Ratio	Lower	Upper	
119	100		
134	27.4	19.8	29.6
91	24.6	21.5	32.3

Manual Integrations
APPROVED

sam
2/8/2019 2:27:26 PM



#82

1,3-Dichlorobenzene

Concen: 0.238 ug/l

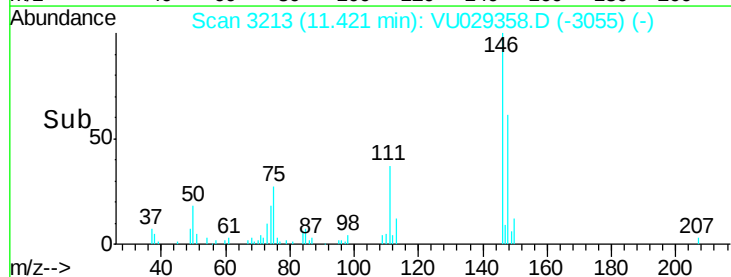
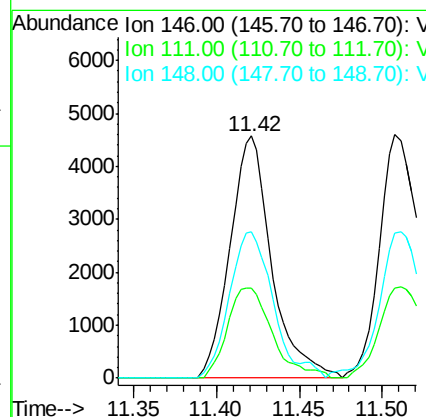
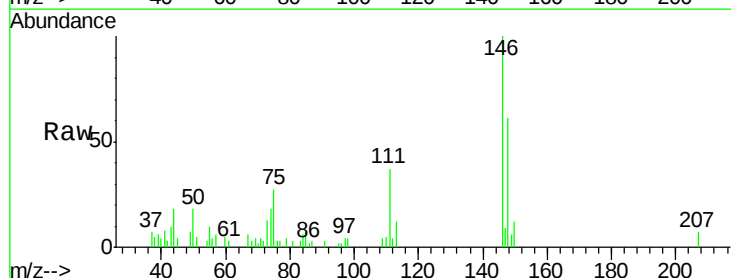
RT: 11.42 min Scan# 3213

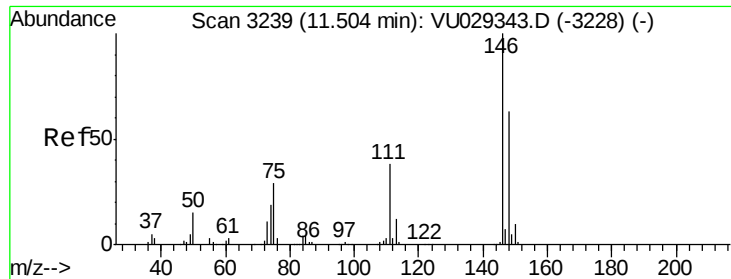
Delta R.T. 0.01 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Tgt Ion:	146	Resp:	7973
Ion Ratio	Lower	Upper	
146	100		
111	40.2	34.1	51.1
148	63.5	52.3	78.5





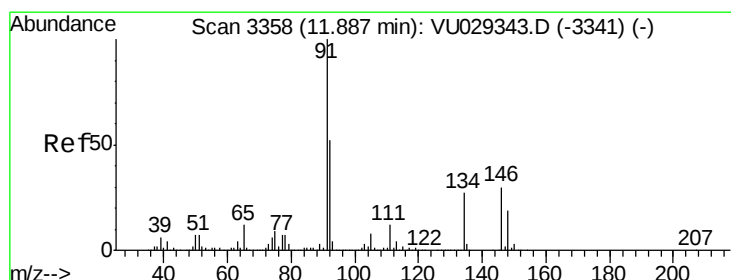
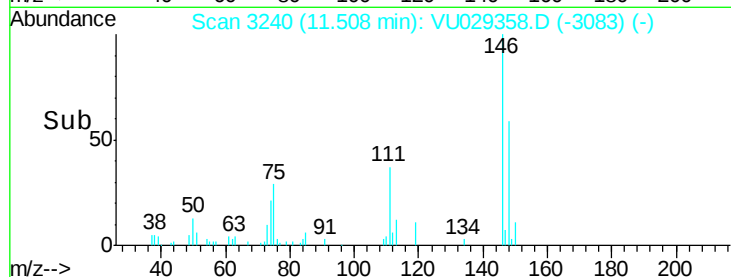
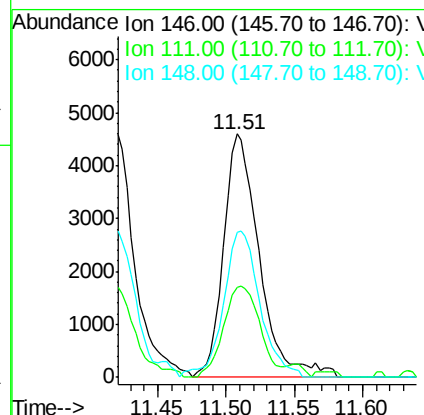
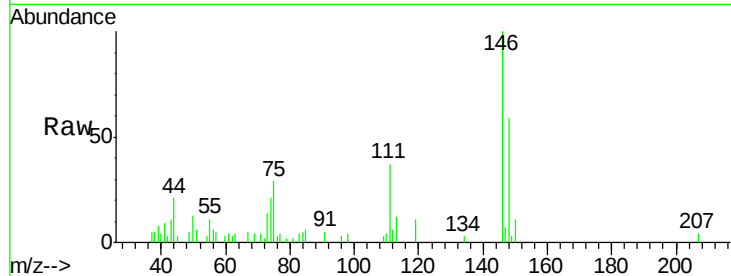
#83
 1,4-Dichlorobenzene
 Concen: 0.250 ug/l
 RT: 11.51 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	32.9	49.3
148	61.4	51.8	77.6

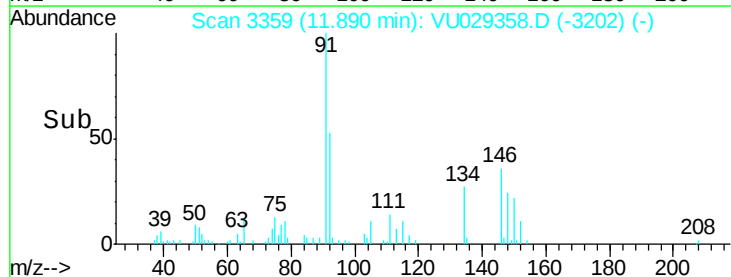
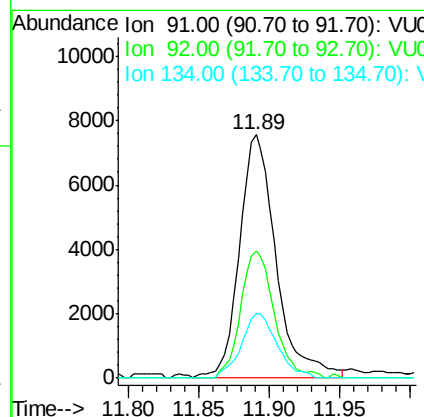
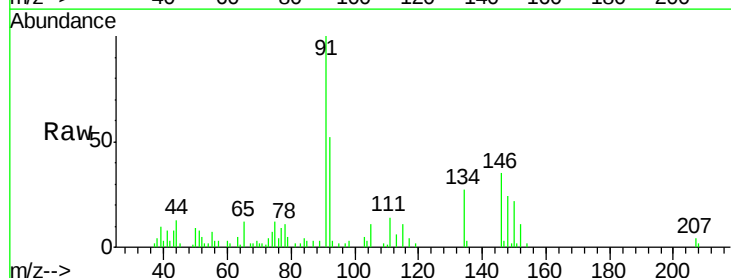
Manual Integrations
 APPROVED

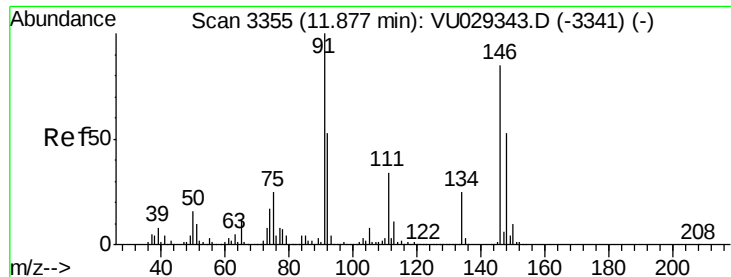
sam
 2/8/2019 2:27:26 PM



#84
 n-Butylbenzene
 Concen: 0.226 ug/l
 RT: 11.89 min Scan# 3359
 Delta R.T. 0.00 min
 Lab File: VU029358.D
 Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
91	100		
92	47.8	41.0	61.6
134	25.9	19.1	28.7





#85

1,2-Dichlorobenzene

Concen: 0.234 ug/l

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

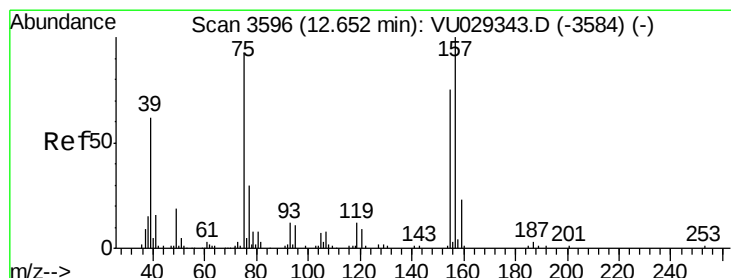
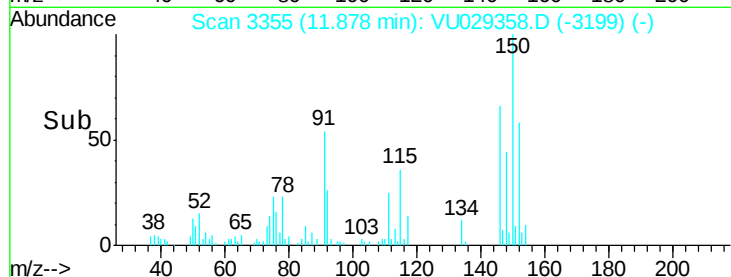
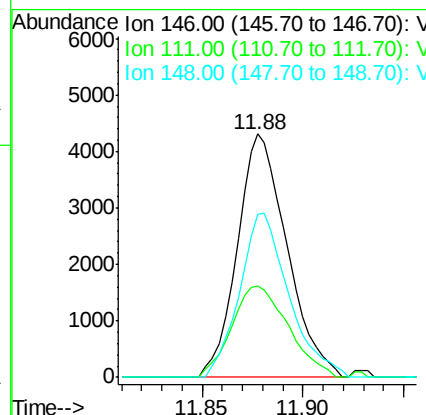
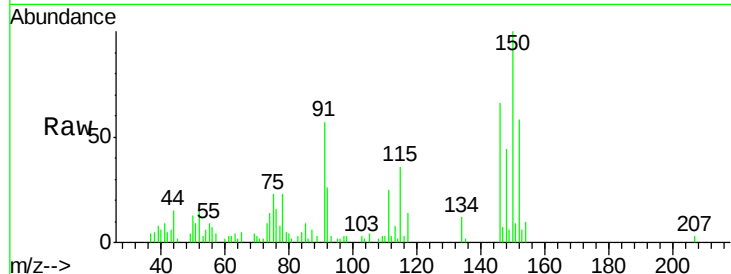
ClientSampleId :

MDL04

Tot Ion:	146	Resp:	7408
Ion Ratio	Lower	Upper	
146	100		
111	42.7	21.9	65.8
148	67.0	31.8	95.3

Manual Integrations
APPROVED

sam
2/8/2019 2:27:26 PM



#86

1,2-Dibromo-3-Chloropropane

Concen: 0.189 ug/l m

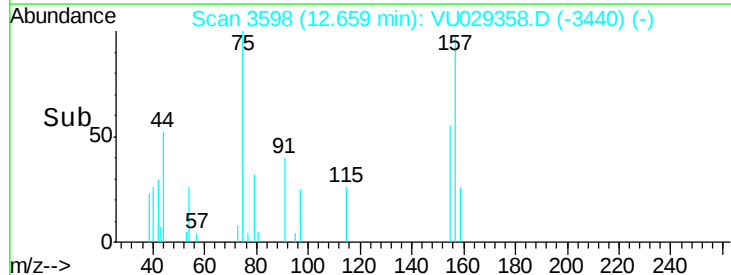
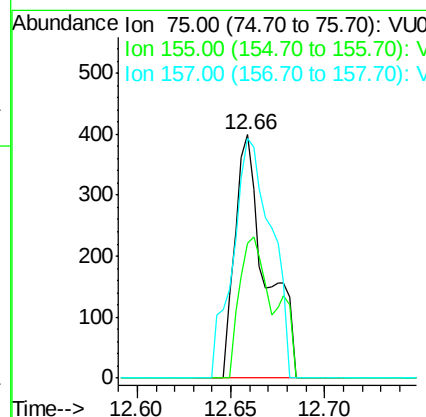
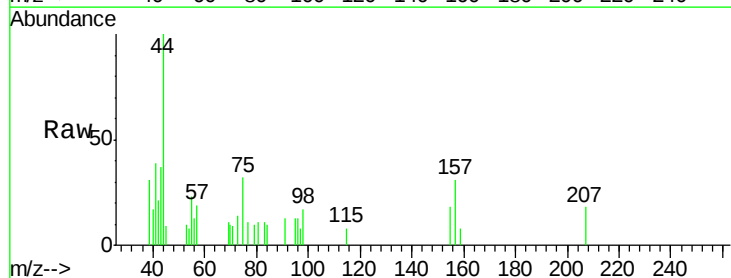
RT: 12.66 min Scan# 3598

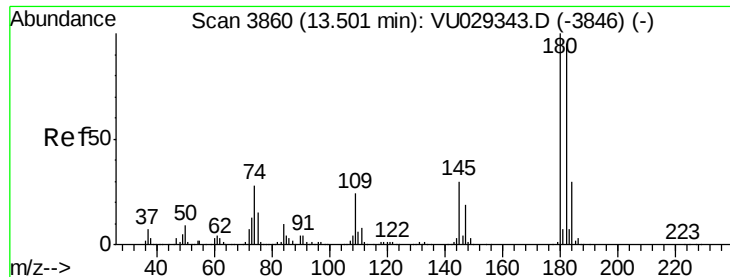
Delta R.T. 0.01 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Tgt Ion:	75	Resp:	458
Ion Ratio	Lower	Upper	
75	100		
155	65.7	53.8	80.8
157	121.8	69.2	103.8#





#87

1,2,4-Trichlorobenzene

Concen: 0.229 ug/l

RT: 13.51 min Scan# 3863

Delta R.T. 0.01 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:180 Resp: 5091

Ion Ratio Lower Upper

180 100

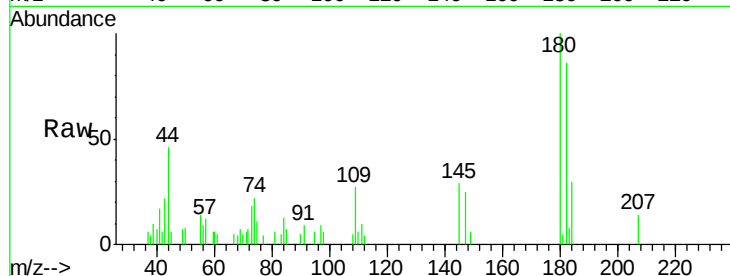
182 83.7 76.6 114.8

145 24.7 24.6 36.8

Manual Integrations
APPROVED

sam

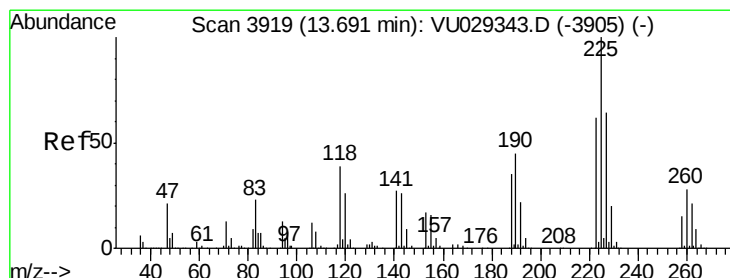
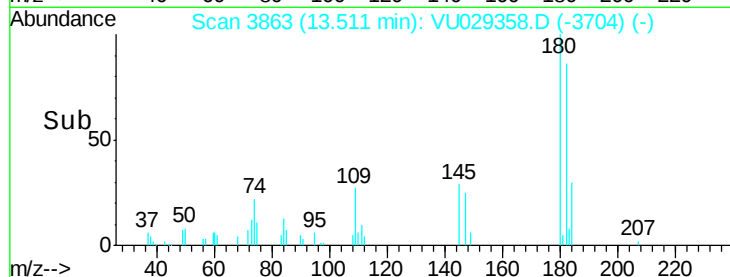
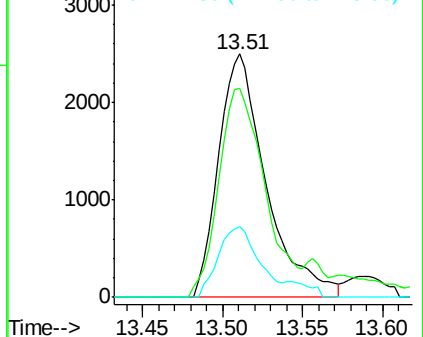
2/8/2019 2:27:26 PM



Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#88

Hexachlorobutadiene

Concen: 0.265 ug/l

RT: 13.69 min Scan# 3920

Delta R.T. 0.00 min

Lab File: VU029358.D

Acq: 06 Feb 2019 11:54

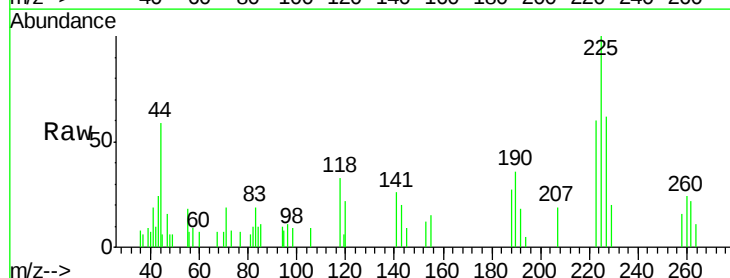
Tgt Ion:225 Resp: 3413

Ion Ratio Lower Upper

225 100

223 59.1 49.5 74.3

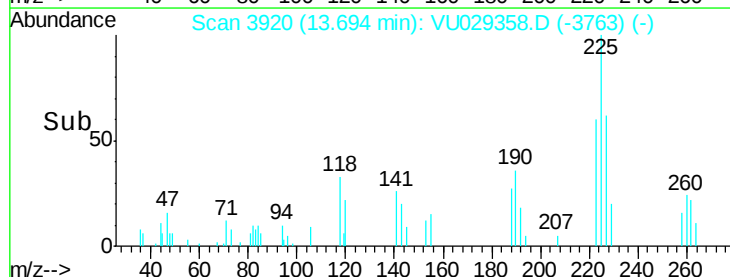
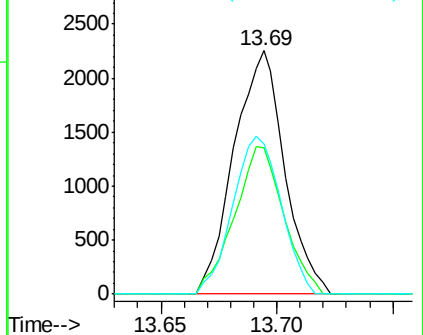
227 61.7 50.4 75.6

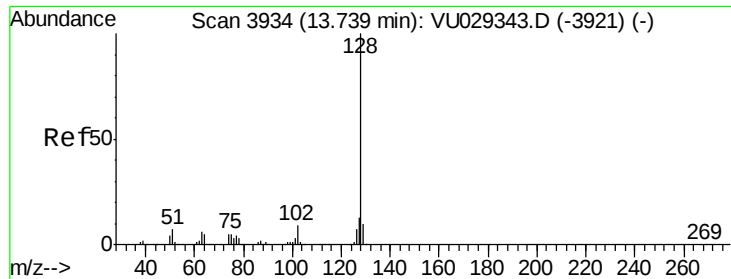


Abundance Ion 224.60 (224.30 to 225.30): V

Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V





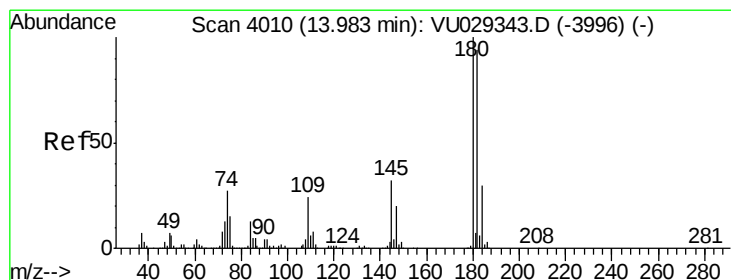
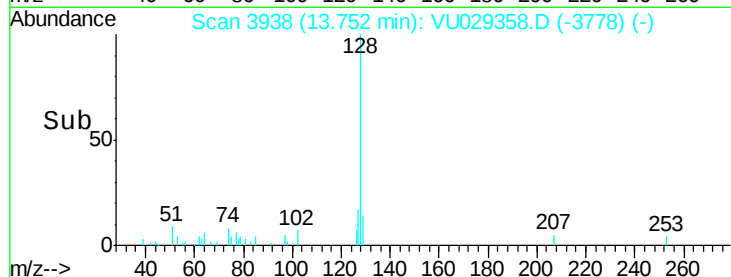
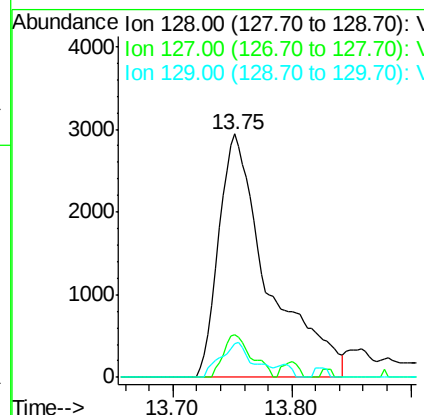
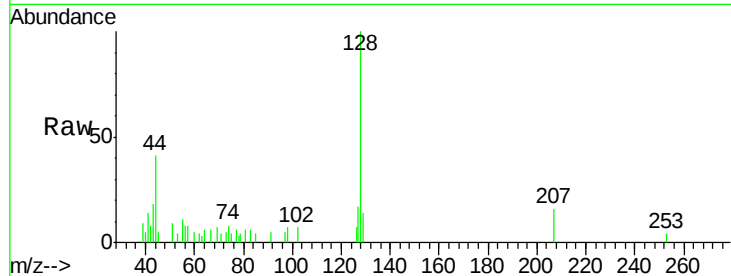
#89
Naphthalene
Concen: 0.224 ug/l
RT: 13.75 min Scan# 3938
Delta R.T. 0.01 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.9	10.7	16.1#
129	9.4	8.2	12.4

Manual Integrations
APPROVED

sam
2/8/2019 2:27:26 PM



#90
1,2,3-Trichlorobenzene
Concen: 0.217 ug/l
RT: 13.99 min Scan# 4012
Delta R.T. 0.01 min
Lab File: VU029358.D
Acq: 06 Feb 2019 11:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	112.1	78.0	117.0
145	14.2	26.6	39.8#

