

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010319\
 Data File : VU028992.D
 Acq On : 03 Jan 2019 13:05
 Operator : MD/SY
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 1/4/2019 9:50:48 AM

Quant Time: Jan 03 14:46:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 03 14:38:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	126271	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	207056	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	190634	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	86164	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	8302	4.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.62%	
35) Dibromofluoromethane	4.88	113	6981	5.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.72%	
50) Toluene-d8	7.57	98	25641	4.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.94%	
62) 4-Bromofluorobenzene	10.31	95	8445	4.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	4258	2.516	ug/l	95
3) Chloromethane	1.33	50	7257	2.332	ug/l	99
4) Vinyl Chloride	1.40	62	5991	2.668	ug/l	98
5) Bromomethane	1.60	94	4040	4.466	ug/l	97
6) Chloroethane	1.68	64	3530	2.777	ug/l	97
7) Trichlorofluoromethane	1.88	101	6557	2.775	ug/l	98
8) Diethyl Ether	2.10	74	2945	2.664	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	2.28	101	4206	2.977	ug/l	99
10) Methyl Iodide	2.40	142	3144	2.836	ug/l #	89
11) Tert butyl alcohol	2.83	59	6098	14.204	ug/l #	93
12) 1,1-Dichloroethene	2.28	96	4223	3.004	ug/l	90
13) Acrolein	2.19	56	8173	23.880	ug/l	94
14) Allyl chloride	2.59	41	7848	2.360	ug/l	95
15) Acrylonitrile	2.94	53	15123	12.688	ug/l	99
16) Acetone	2.32	43	16300	12.963	ug/l #	88
17) Carbon Disulfide	2.47	76	14578	2.878	ug/l	98
18) Methyl Acetate	2.62	43	7089	2.175	ug/l	95
19) Methyl tert-butyl Ether	3.00	73	13793	2.588	ug/l	97
20) Methylene Chloride	2.70	84	5558	2.998	ug/l #	80
21) trans-1,2-Dichloroethene	2.98	96	4476	2.828	ug/l #	94
22) Diisopropyl ether	3.57	45	14348	2.218	ug/l	90
23) Vinyl Acetate	3.52	43	58388	10.945	ug/l #	91
24) 1,1-Dichloroethane	3.44	63	8896	2.628	ug/l	98
25) 2-Butanone	4.27	43	20125	11.711	ug/l	96
26) 2,2-Dichloropropane	4.22	77	6879	2.564	ug/l	97
27) cis-1,2-Dichloroethene	4.22	96	5140	2.869	ug/l	90
28) Bromochloromethane	4.54	49	5997	3.897	ug/l #	72
29) Tetrahydrofuran	4.64	42	12742	11.545	ug/l	89
30) Chloroform	4.67	83	8328	2.822	ug/l	98
31) Cyclohexane	4.99	56	10874	2.738	ug/l #	67
32) 1,1,1-Trichloroethane	4.91	97	7159	2.921	ug/l	89
36) 1,1-Dichloropropene	5.13	75	6050	2.670	ug/l	94
37) Ethyl Acetate	4.39	43	6883	2.350	ug/l #	88
38) Carbon Tetrachloride	5.13	117	5506	3.015	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010319\
 Data File : VU028992.D
 Acq On : 03 Jan 2019 13:05
 Operator : MD/SY
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 1/4/2019 9:50:48 AM

Quant Time: Jan 03 14:46:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 03 14:38:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	7653	2.769	ug/l	87
40) Benzene	5.39	78	20109	3.013	ug/l	99
41) Methacrylonitrile	4.55	41	3119	1.944	ug/l #	87
42) 1,2-Dichloroethane	5.40	62	6178	2.645	ug/l	98
43) Isopropyl Acetate	5.55	43	10735	2.317	ug/l	98
44) Trichloroethene	6.19	130	4864	3.278	ug/l	88
45) 1,2-Dichloropropane	6.43	63	5203	2.773	ug/l	94
46) Dibromomethane	6.56	93	3437	3.087	ug/l	95
47) Bromodichloromethane	6.76	83	5959	2.750	ug/l #	95
48) Methyl methacrylate	6.63	41	5027	2.182	ug/l #	88
49) 1,4-Dioxane	6.61	88	2284	62.786	ug/l #	89
51) 4-Methyl-2-Pentanone	7.46	43	35413	12.120	ug/l	93
52) Toluene	7.64	92	11797	3.004	ug/l	98
53) t-1,3-Dichloropropene	7.88	75	6914	2.679	ug/l	94
54) cis-1,3-Dichloropropene	7.27	75	7779	2.779	ug/l #	84
55) 1,1,2-Trichloroethane	8.07	97	4967	3.199	ug/l	96
56) Ethyl methacrylate	8.02	69	6673	2.510	ug/l #	83
57) 1,3-Dichloropropane	8.24	76	8574	2.975	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.13	63	23950	17.588	ug/l	92
59) 2-Hexanone	8.36	43	26990	11.654	ug/l	91
60) Dibromochloromethane	8.48	129	4528	2.979	ug/l	97
61) 1,2-Dibromoethane	8.59	107	5277	3.241	ug/l	98
64) Tetrachloroethene	8.23	164	4247	3.340	ug/l	98
65) Chlorobenzene	9.12	112	12921	3.181	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	4180	3.222	ug/l	89
67) Ethyl Benzene	9.25	91	21169	2.835	ug/l	96
68) m/p-Xylenes	9.38	106	16152	5.944	ug/l	92
69) o-Xylene	9.78	106	8118	3.074	ug/l	86
70) Styrene	9.79	104	11685	2.674	ug/l	96
71) Bromoform	9.96	173	3777	3.423	ug/l #	97
73) Isopropylbenzene	10.16	105	19983	3.022	ug/l	99
74) N-amyl acetate	10.01	43	8304	2.177	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	10.46	83	8349	3.287	ug/l	96
76) 1,2,3-Trichloropropane	10.49	75	7702m	3.501	ug/l	
77) Bromobenzene	10.45	156	5505	3.560	ug/l	86
78) n-propylbenzene	10.58	91	22771	2.772	ug/l	98
79) 2-Chlorotoluene	10.66	91	14547	3.074	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	15577	2.846	ug/l	97
81) trans-1,4-Dichloro-2-buten	10.50	75	3488m	3.682	ug/l	
82) 4-Chlorotoluene	10.77	91	15990	2.851	ug/l	96
83) tert-Butylbenzene	11.10	119	15500	2.938	ug/l	94
84) 1,2,4-Trimethylbenzene	11.15	105	15842	2.809	ug/l	95
85) sec-Butylbenzene	11.32	105	18759	2.768	ug/l	99
86) p-Isopropyltoluene	11.48	119	15853	2.754	ug/l	97
87) 1,3-Dichlorobenzene	11.42	146	9341	3.199	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	9975	3.302	ug/l	96
89) n-Butylbenzene	11.89	91	13119	2.252	ug/l	97
90) Hexachloroethane	12.14	117	2899	3.332	ug/l	95
91) 1,2-Dichlorobenzene	11.88	146	9580	3.280	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	12.66	75	1619	2.944	ug/l	84

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU010319\
Data File : VU028992.D
Acq On : 03 Jan 2019 13:05
Operator : MD/SY
Sample : VSTDICC005
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

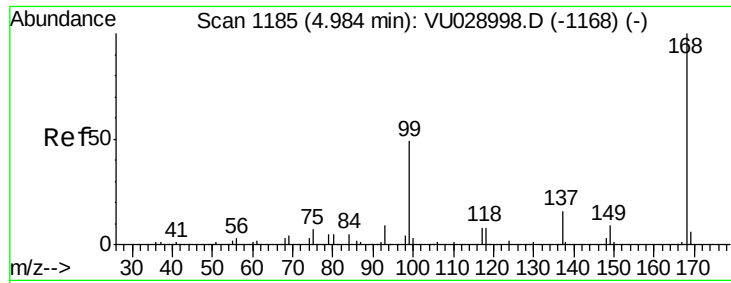
Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM

Quant Time: Jan 03 14:46:50 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 03 14:38:28 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	4796	2.290	ug/l	99
94) Hexachlorobutadiene	13.69	225	2568	2.684	ug/l	94
95) Naphthalene	13.75	128	15506	2.212	ug/l	97
96) 1,2,3-Trichlorobenzene	13.99	180	5119	2.430	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 126271

Ion Ratio Lower Upper

168 100

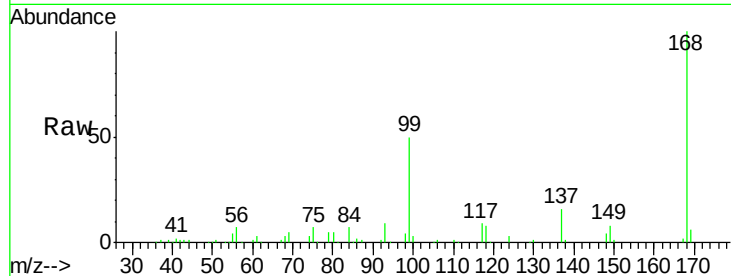
99 50.1 46.6 69.8

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:50:48 AM



Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028998.D (-1168) (-)

4.98

60000

50000

40000

30000

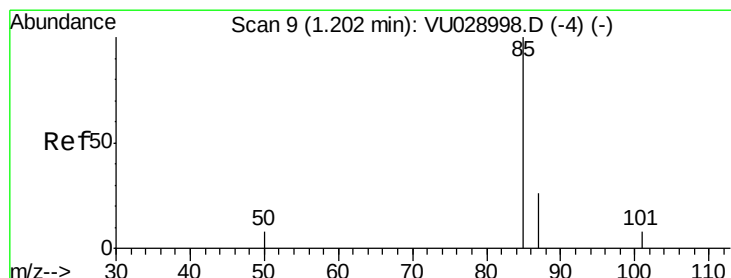
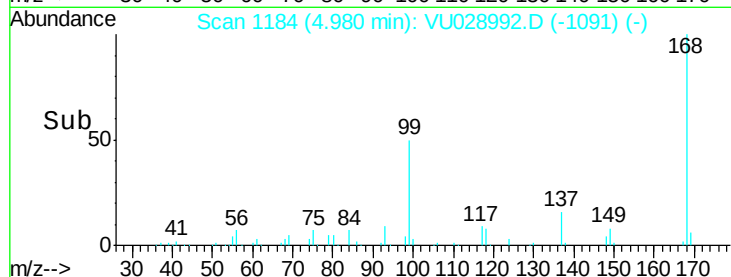
20000

10000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 2.516 ug/l

RT: 1.20 min Scan# 9

Delta R.T. -0.00 min

Lab File: VU028992.D

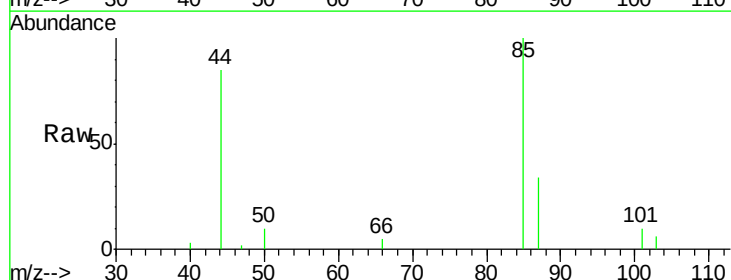
Acq: 03 Jan 2019 13:05

Tgt Ion: 85 Resp: 4258

Ion Ratio Lower Upper

85 100

87 34.3 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VU028998.D (-4) (-)

Ion 86.90 (86.60 to 87.60): VU028998.D (-4) (-)

1.20

5000

4000

3000

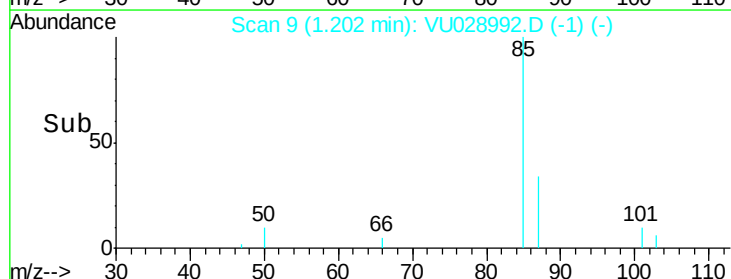
2000

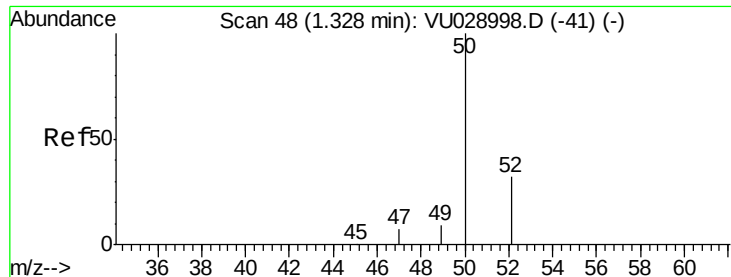
1000

0

1.18 1.20 1.22 1.24

Time-->





#3

Chloromethane

Concen: 2.332 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 7257

Ion Ratio Lower Upper

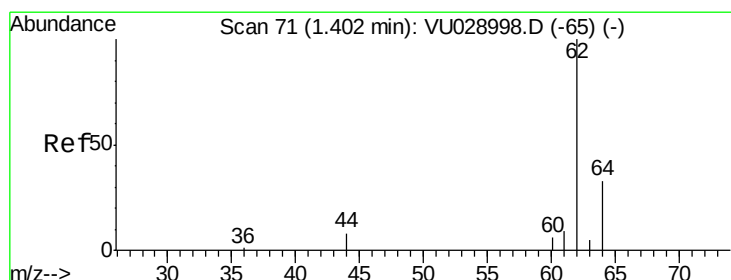
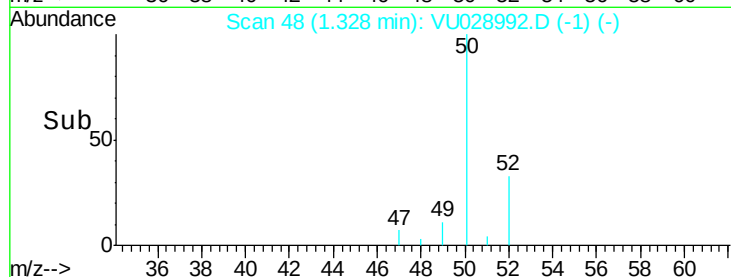
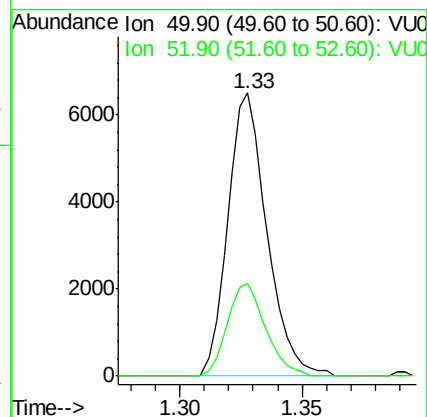
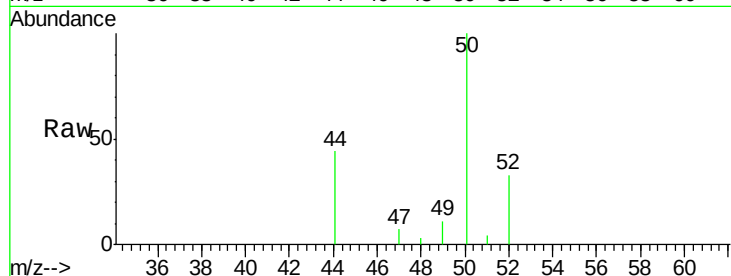
50 100

52 32.6 25.5 38.3

Manual Integrations
APPROVED

MMDadoda

1/4/2019 9:50:48 AM



#4

Vinyl Chloride

Concen: 2.668 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028992.D

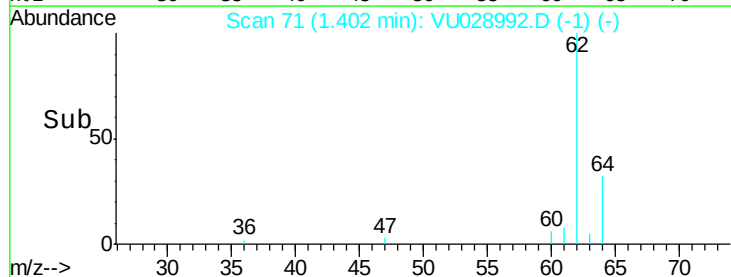
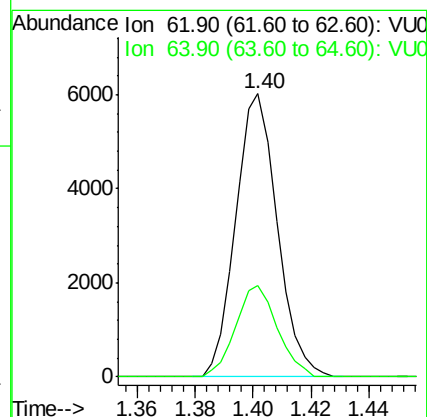
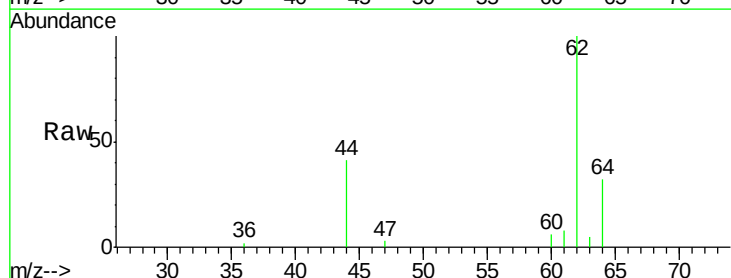
Acq: 03 Jan 2019 13:05

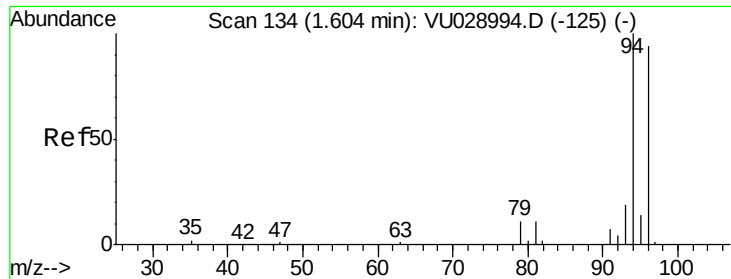
Tgt Ion: 62 Resp: 5991

Ion Ratio Lower Upper

62 100

64 32.3 25.1 37.7





#5

Bromomethane

Concen: 4.466 ug/l

RT: 1.60 min Scan# 134

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 4040

Ion Ratio Lower Upper

94 100

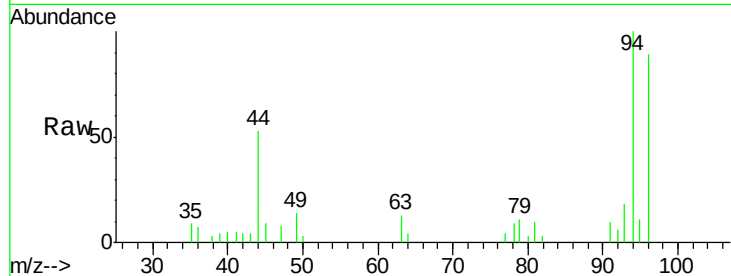
96 89.0 73.2 109.8

Manual Integrations

APPROVED

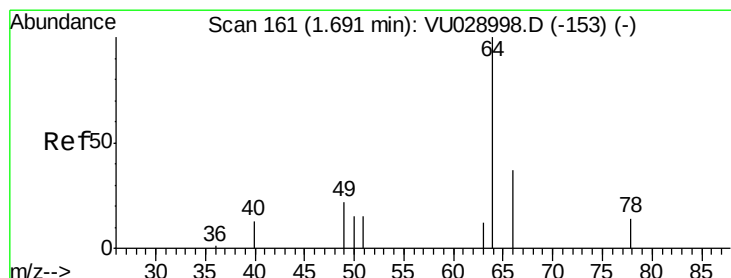
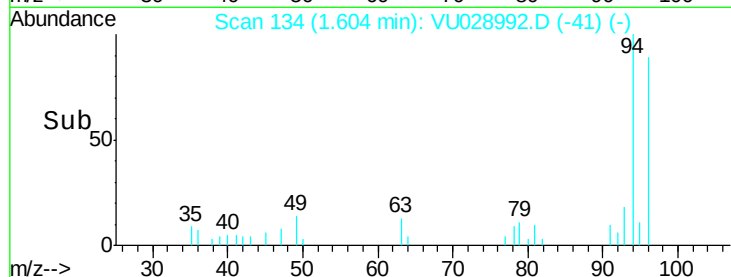
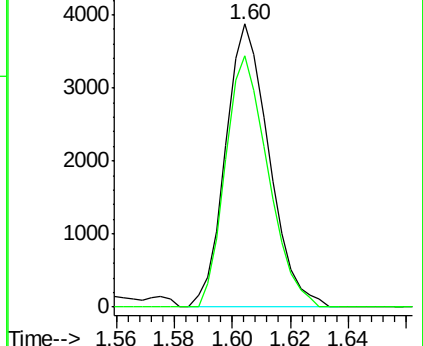
MMDadoda

1/4/2019 9:50:48 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 2.777 ug/l

RT: 1.68 min Scan# 159

Delta R.T. 0.00 min

Lab File: VU028992.D

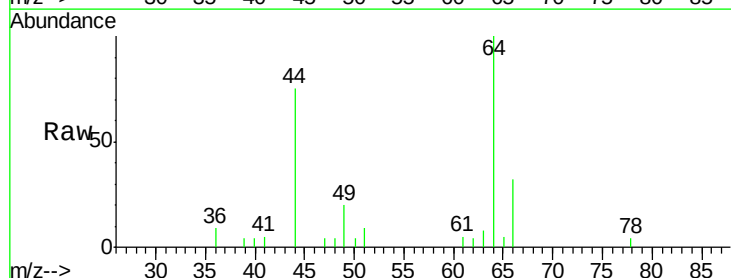
Acq: 03 Jan 2019 13:05

Tgt Ion: 64 Resp: 3530

Ion Ratio Lower Upper

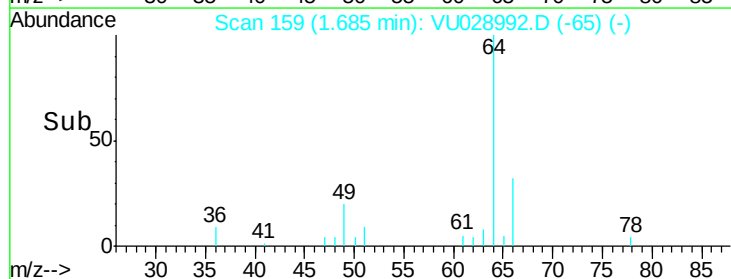
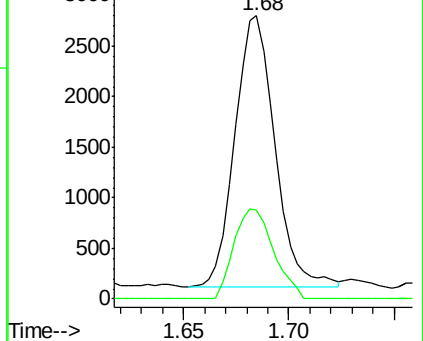
64 100

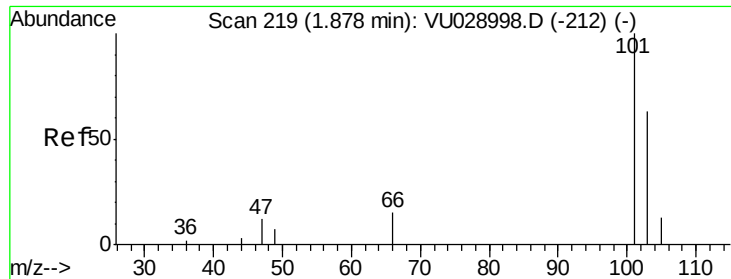
66 33.0 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

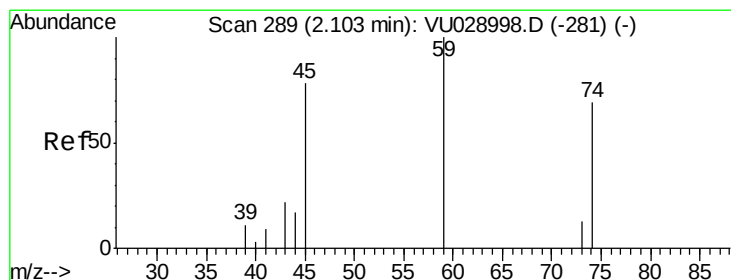
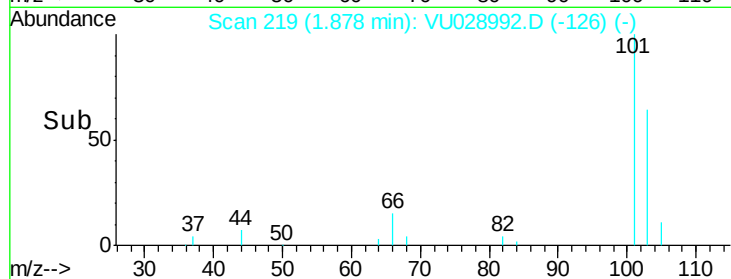
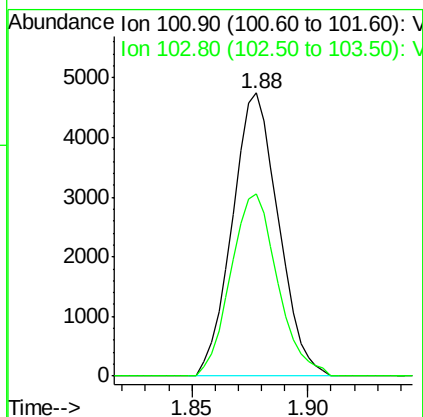
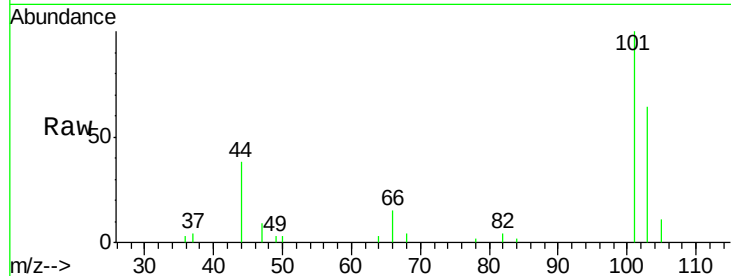
Trichlorofluoromethane
Concen: 2.775 ug/l
RT: 1.88 min Scan# 219
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:101 Resp: 6557
Ion Ratio Lower Upper
101 100
103 64.2 52.3 78.5

Manual Integrations
APPROVED

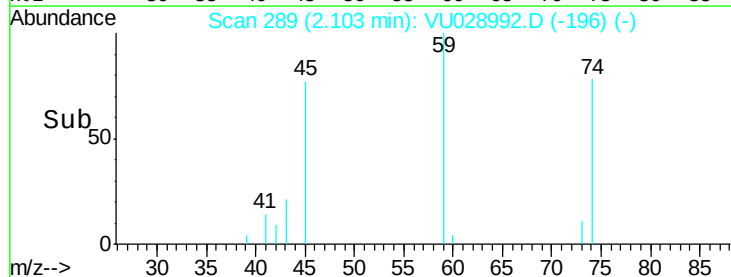
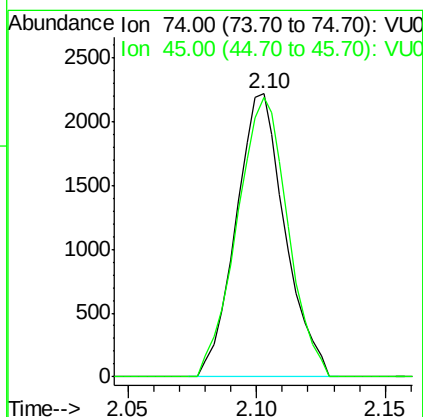
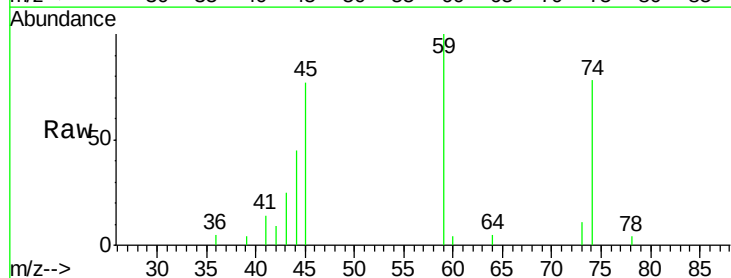
MMDadoda
1/4/2019 9:50:48 AM

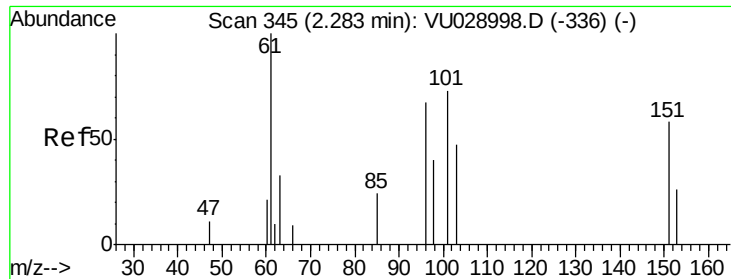


#8

Diethyl Ether
Concen: 2.664 ug/l
RT: 2.10 min Scan# 289
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion: 74 Resp: 2945
Ion Ratio Lower Upper
74 100
45 102.2 59.7 179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.977 ug/l

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

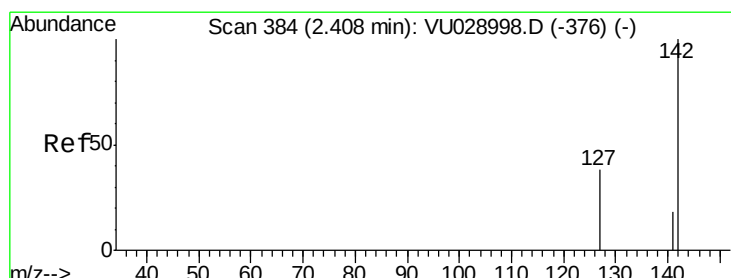
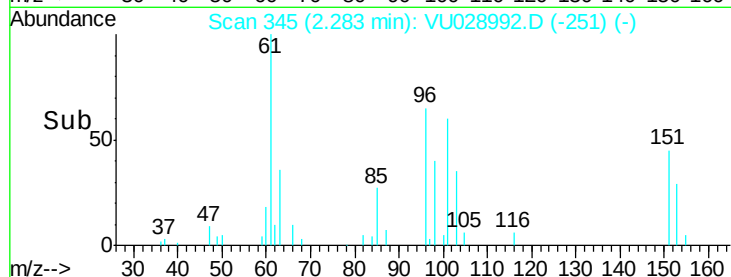
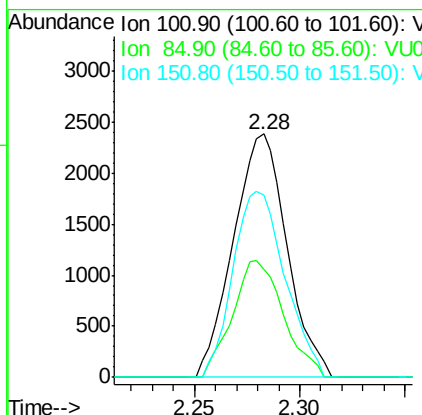
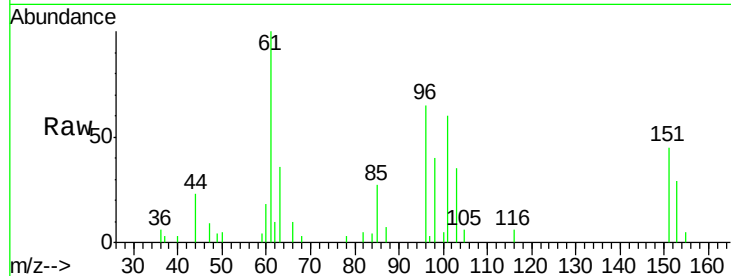
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	4206
Ion Ratio	Lower	Upper	
101	100		
85	45.6	36.4	54.6
151	74.3	58.2	87.2

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM



#10

Methyl Iodide

Concen: 2.836 ug/l

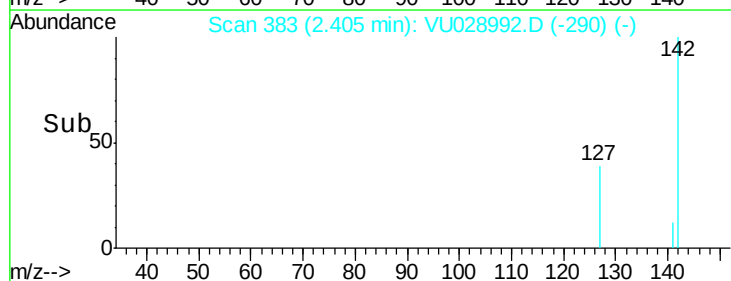
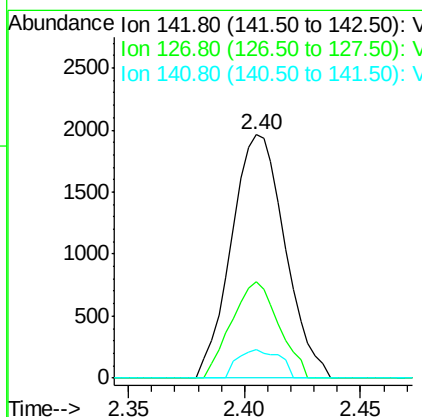
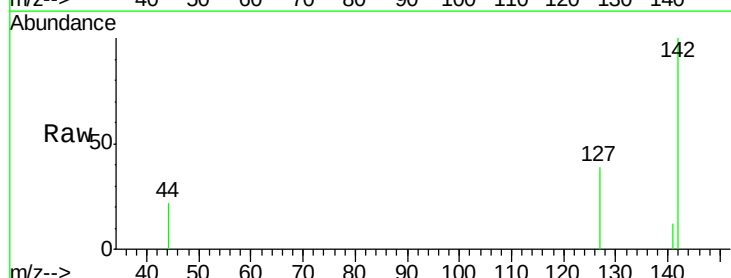
RT: 2.40 min Scan# 383

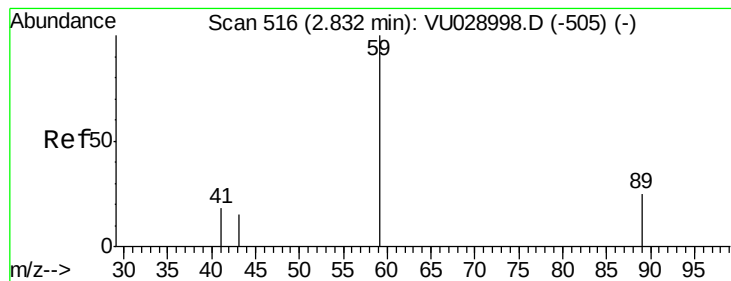
Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Tgt Ion:	142	Resp:	3144
Ion Ratio	Lower	Upper	
142	100		
127	35.0	33.5	50.3
141	9.2	11.2	16.8#





#11

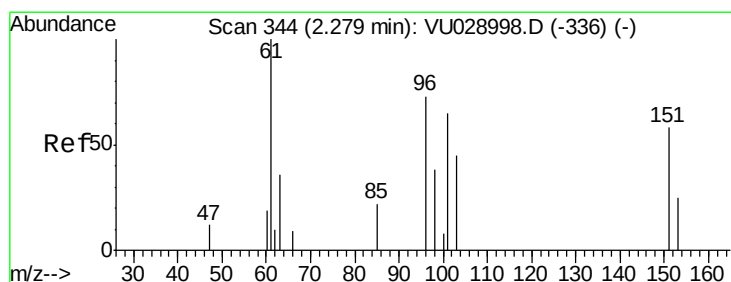
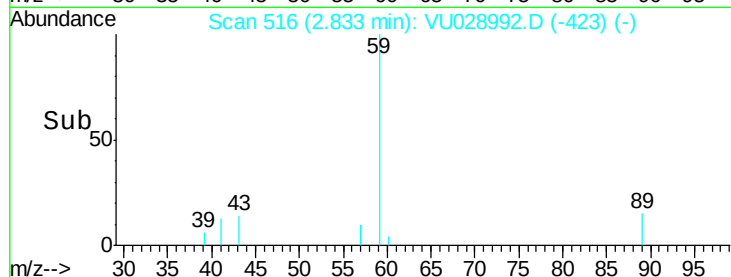
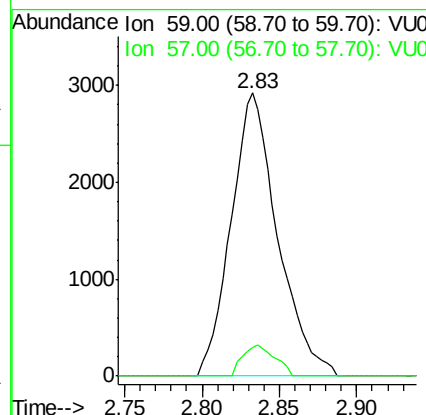
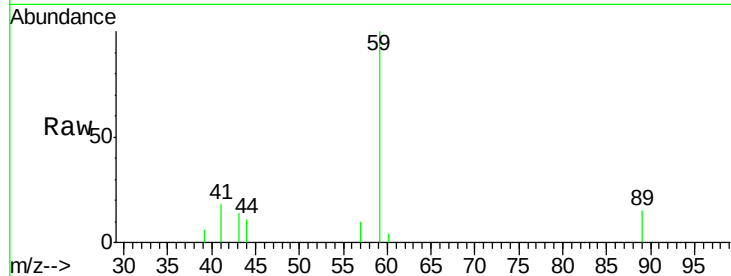
Tert butyl alcohol
Concen: 14.204 ug/l
RT: 2.83 min Scan# 516
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 59 Resp: 6098
Ion Ratio Lower Upper
59 100
57 7.6 8.0 12.0#

Manual Integrations
APPROVED

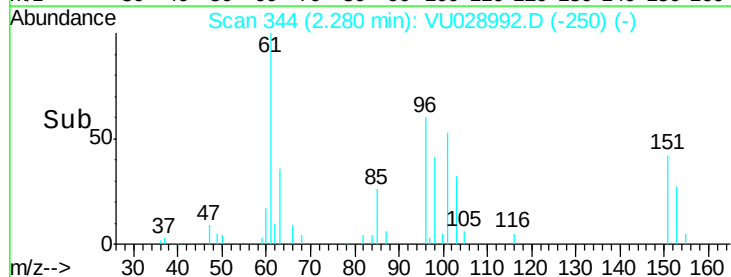
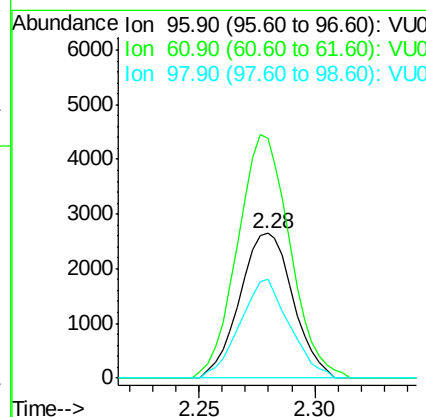
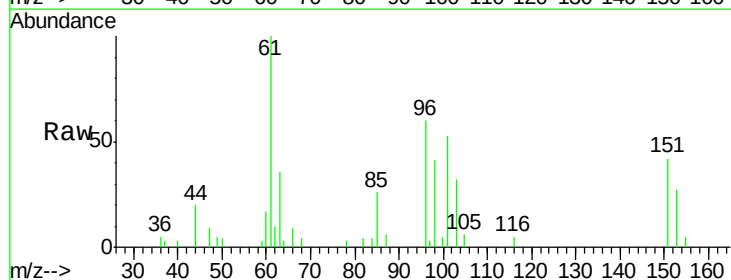
MMDadoda
1/4/2019 9:50:48 AM

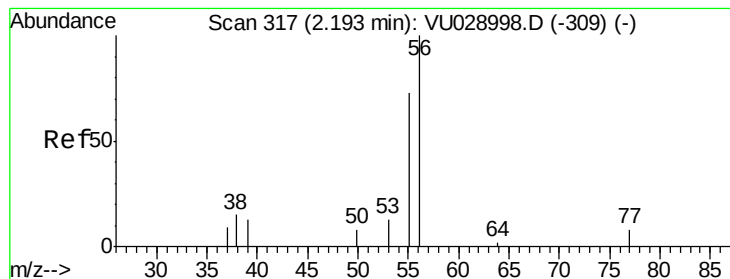


#12

1,1-Dichloroethene
Concen: 3.004 ug/l
RT: 2.28 min Scan# 344
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion: 96 Resp: 4223
Ion Ratio Lower Upper
96 100
61 165.8 146.4 219.6
98 68.0 51.8 77.8





#13

Acrolein

Concen: 23.880 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 8173

Ion Ratio Lower Upper

56 100

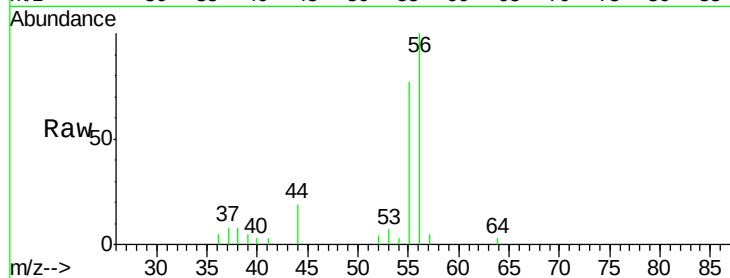
55 76.9 57.5 86.3

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:50:48 AM

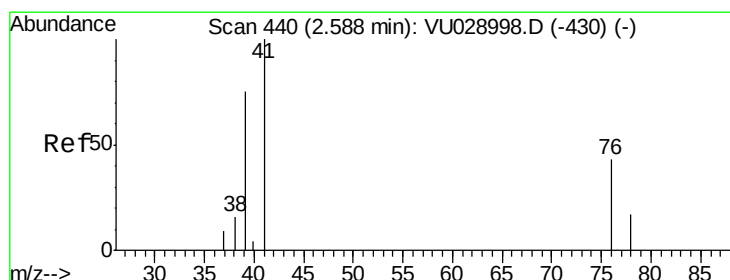
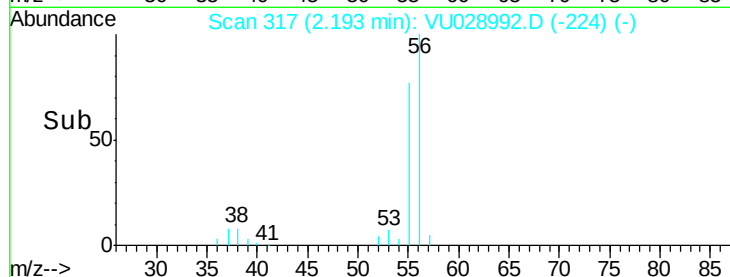


Abundance Ion 56.00 (55.70 to 56.70): VU028992.D (-224) (-)

Ion 55.00 (54.70 to 55.70): VU028992.D (-224) (-)

2.19

Time-->



#14

Allyl chloride

Concen: 2.360 ug/l

RT: 2.59 min Scan# 440

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

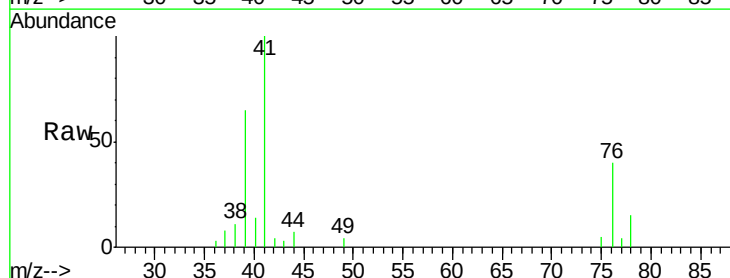
Tgt Ion: 41 Resp: 7848

Ion Ratio Lower Upper

41 100

39 59.2 50.8 76.2

76 33.5 24.8 37.2



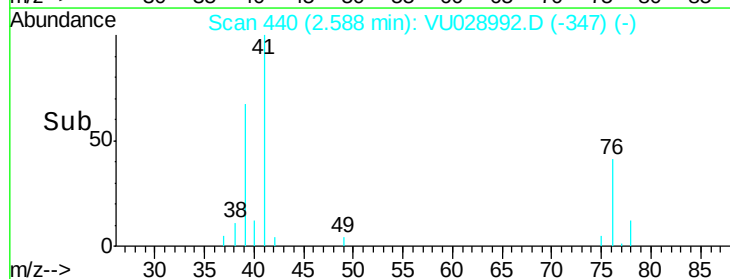
Abundance Ion 41.00 (40.70 to 41.70): VU028992.D (-347) (-)

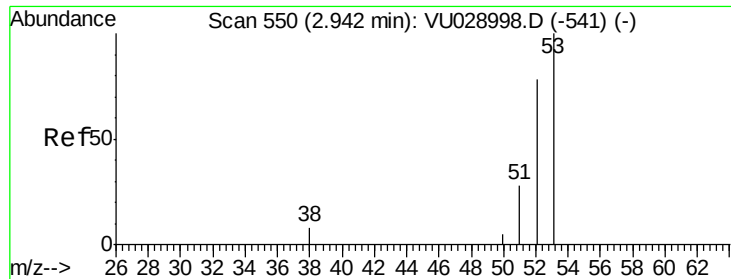
Ion 39.00 (38.70 to 39.70): VU028992.D (-347) (-)

Ion 75.90 (75.60 to 76.60): VU028992.D (-347) (-)

2.59

Time-->





#15

Acrylonitrile

Concen: 12.688 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

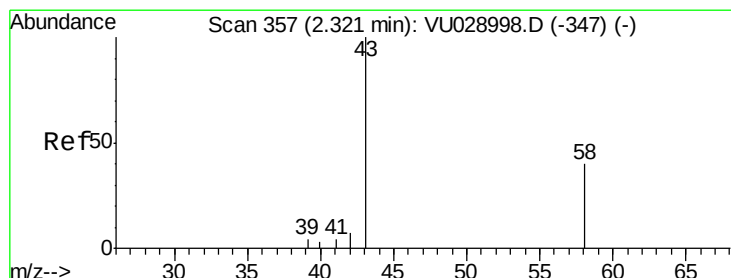
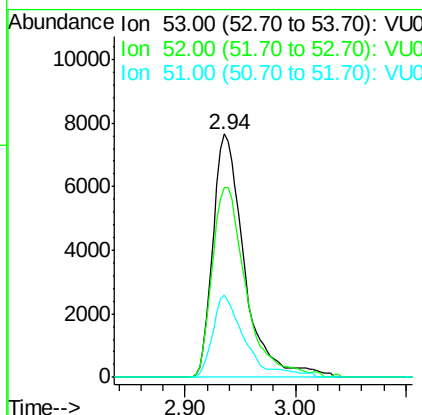
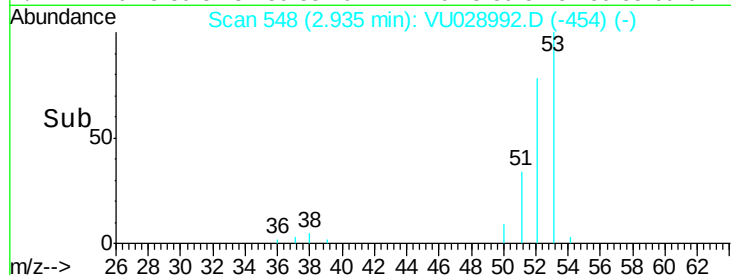
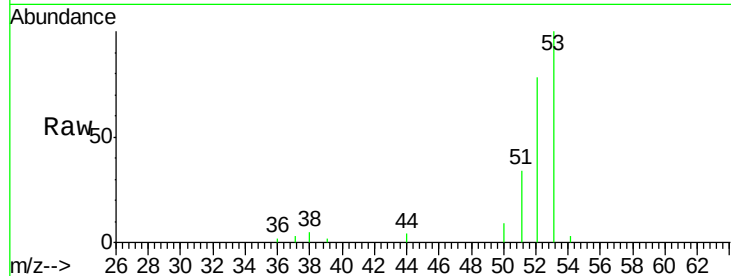
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	15123
Ion	Ratio	Lower	Upper
53	100		
52	83.5	66.1	99.1
51	34.0	28.1	42.1

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM



#16

Acetone

Concen: 12.963 ug/l

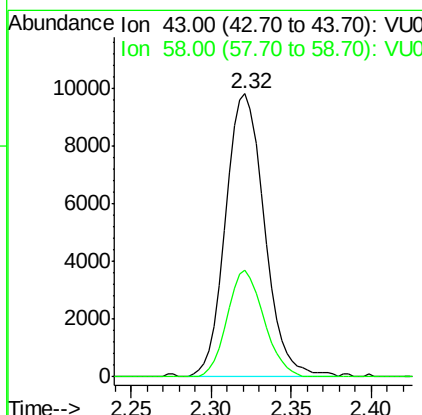
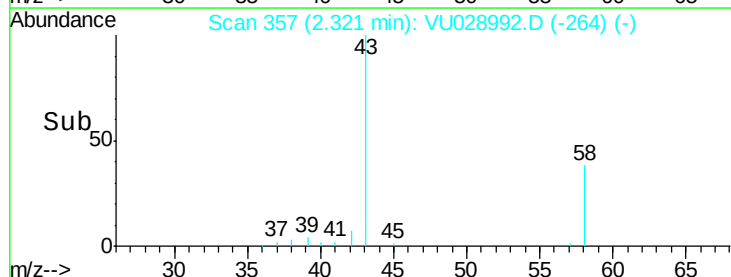
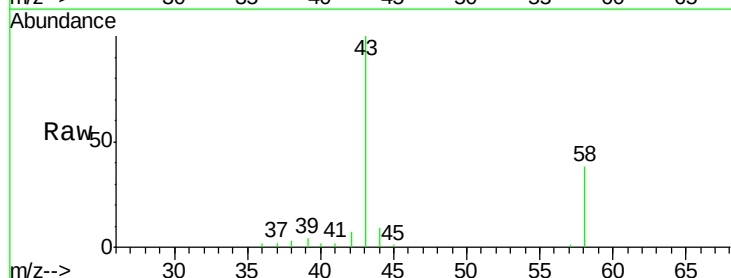
RT: 2.32 min Scan# 357

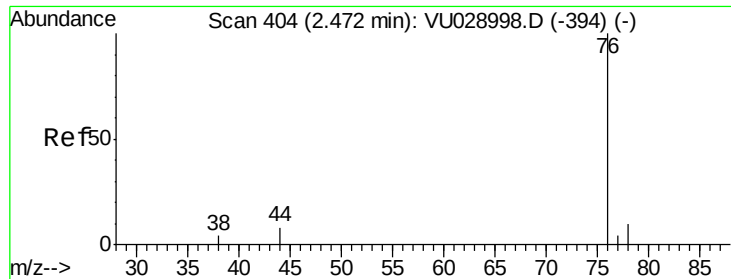
Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Tgt Ion:	43	Resp:	16300
Ion	Ratio	Lower	Upper
43	100		
58	37.6	24.6	37.0#





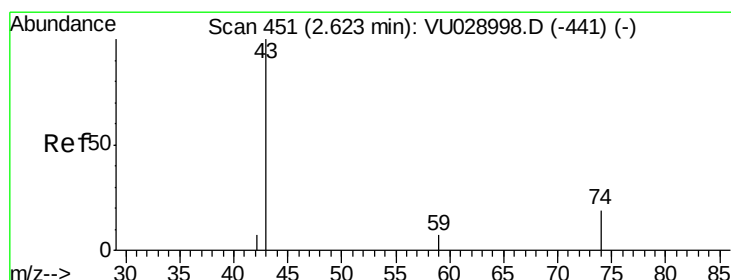
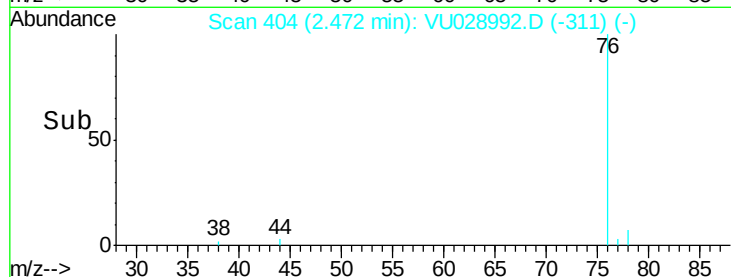
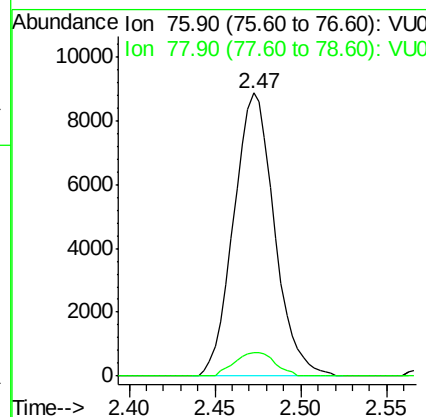
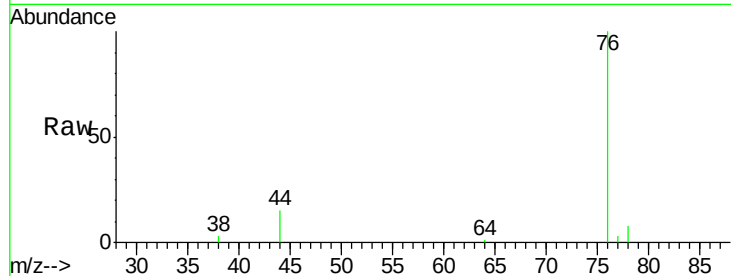
#17
Carbon Disulfide
Concen: 2.878 ug/l
RT: 2.47 min Scan# 404
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 76 Resp: 14578
Ion Ratio Lower Upper
76 100
78 8.2 7.2 10.8

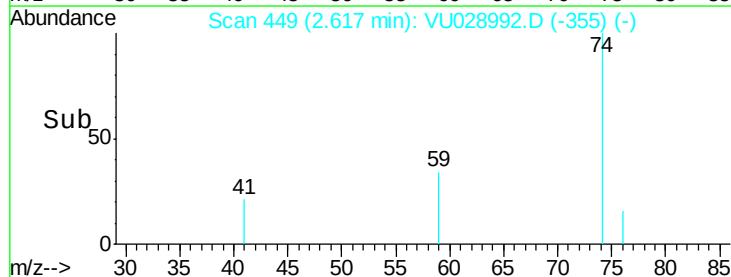
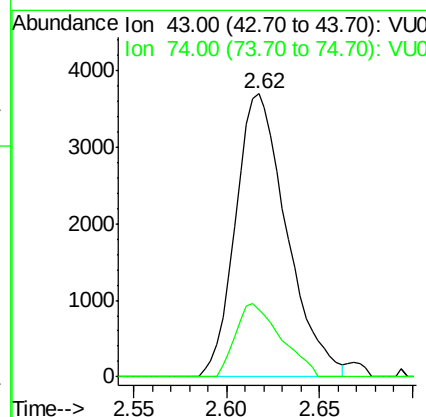
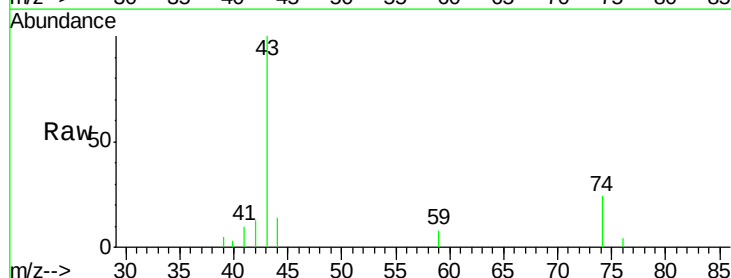
Manual Integrations
APPROVED

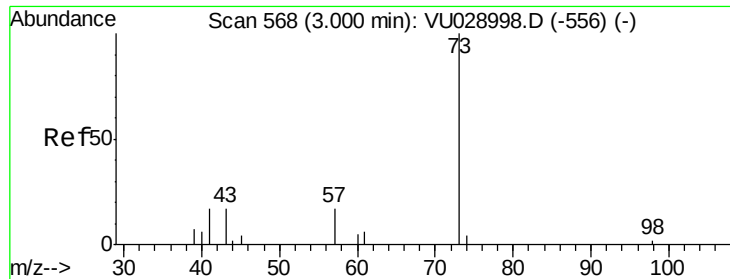
MMDadoda
1/4/2019 9:50:48 AM



#18
Methyl Acetate
Concen: 2.175 ug/l
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion: 43 Resp: 7089
Ion Ratio Lower Upper
43 100
74 23.0 16.4 24.6





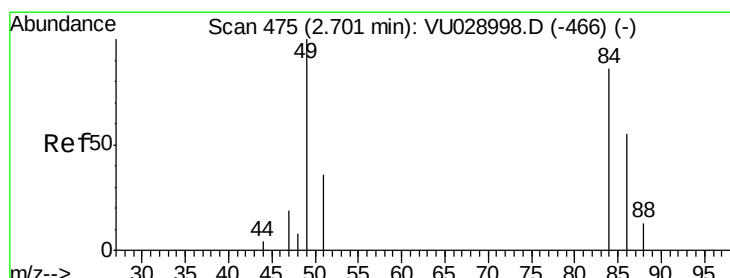
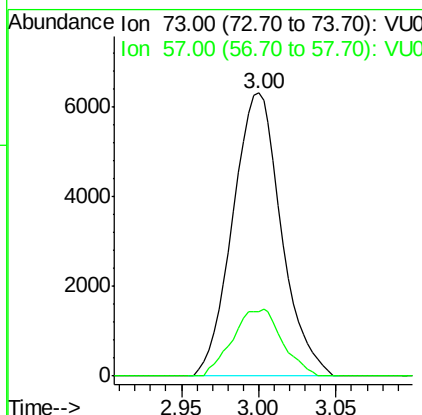
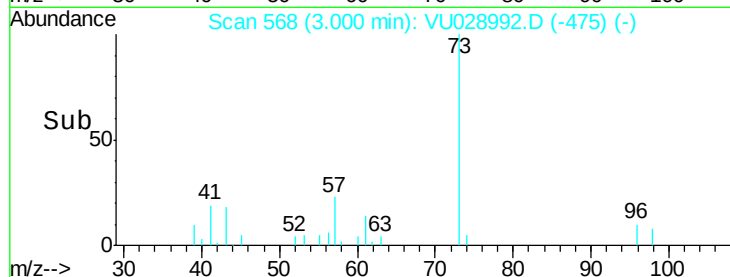
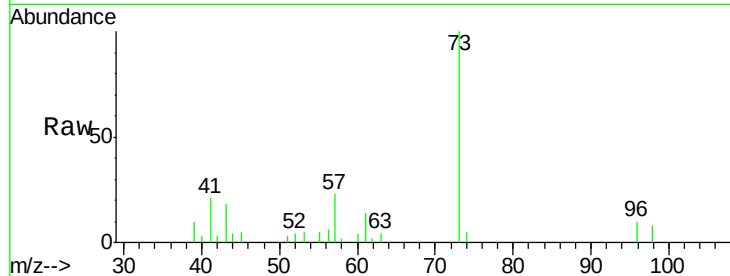
#19
Methyl tert-butyl Ether
Concen: 2.588 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.0	19.4	29.2

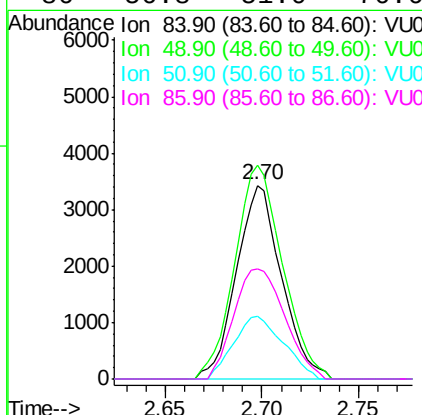
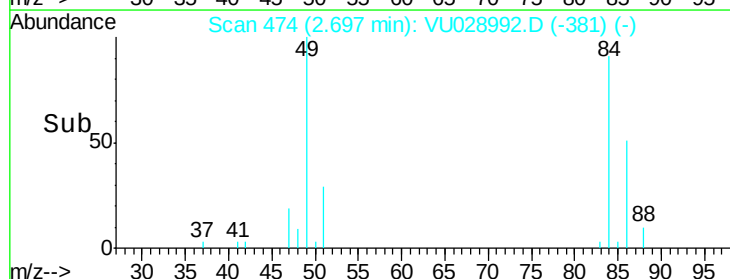
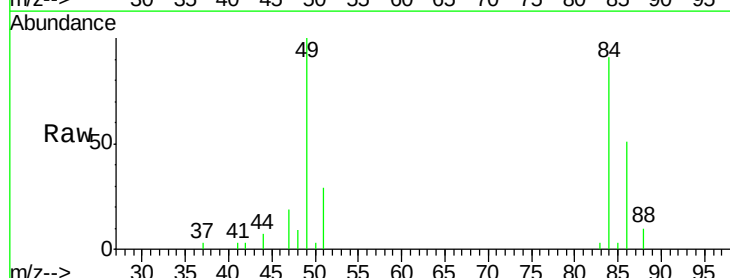
Manual Integrations
APPROVED

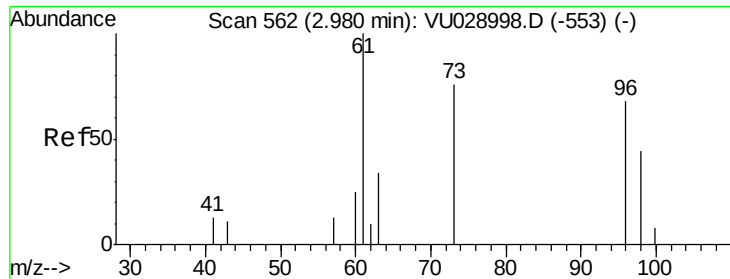
MMDadoda
1/4/2019 9:50:48 AM



#20
Methylene Chloride
Concen: 2.998 ug/l
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
84	100		
49	110.4	114.0	171.0#
51	32.1	35.1	52.7#
86	56.8	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 2.828 ug/l

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 4476

Ion Ratio Lower Upper

96 100

61 160.3 127.0 190.4

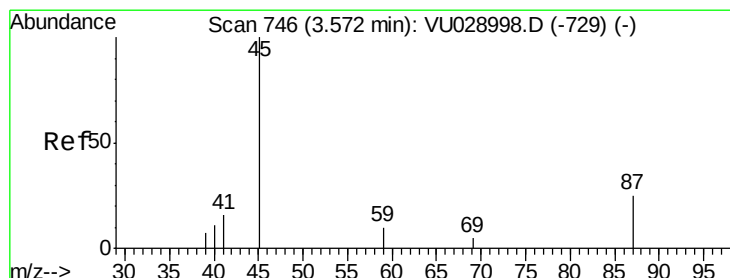
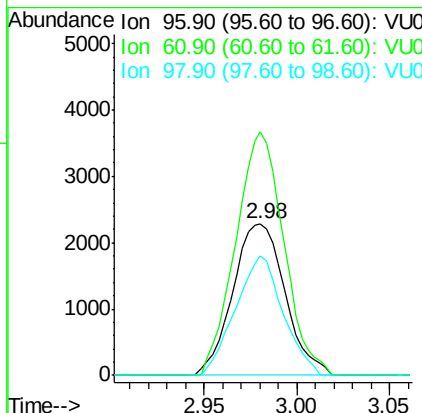
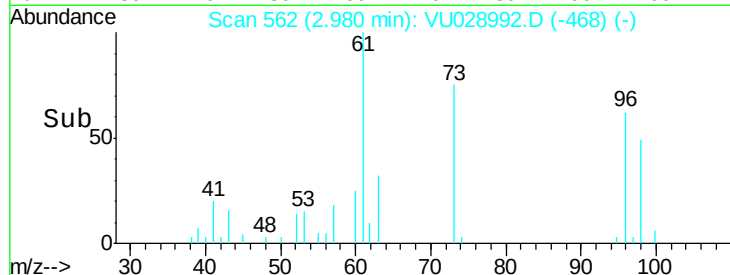
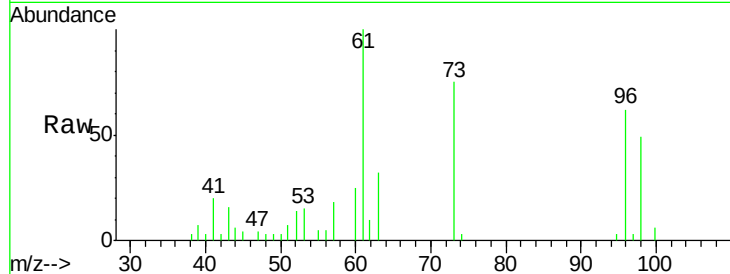
98 78.6 51.9 77.9#

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:50:48 AM



#22

Diisopropyl ether

Concen: 2.218 ug/l

RT: 3.57 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Tgt Ion: 45 Resp: 14348

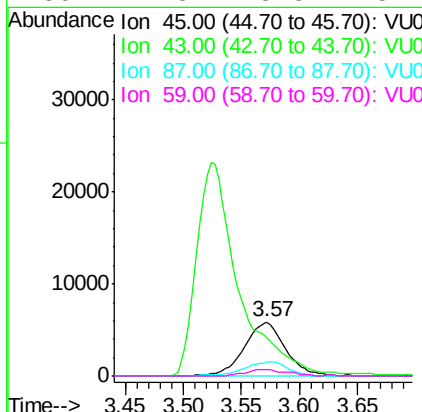
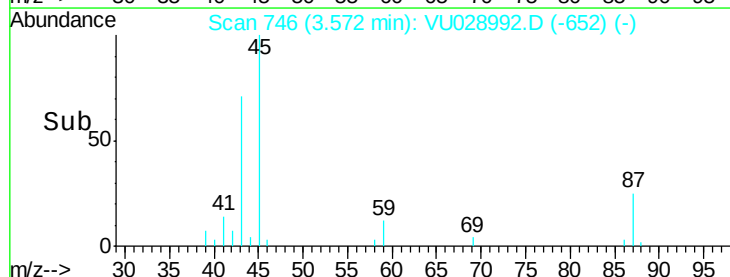
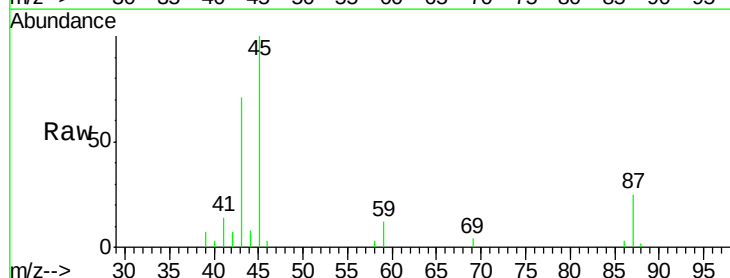
Ion Ratio Lower Upper

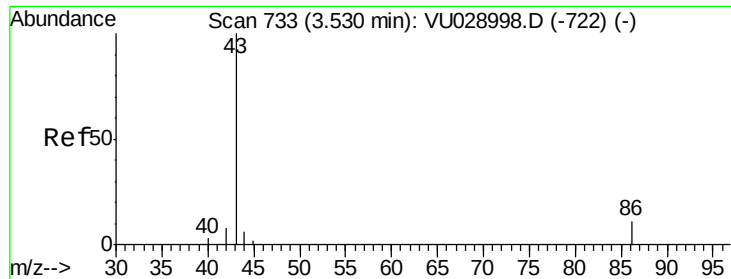
45 100

43 65.6 45.3 67.9

87 25.4 17.6 26.4

59 12.3 8.8 13.2





#23

Vinyl Acetate

Concen: 10.945 ug/l

RT: 3.52 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 58388

Ion Ratio Lower Upper

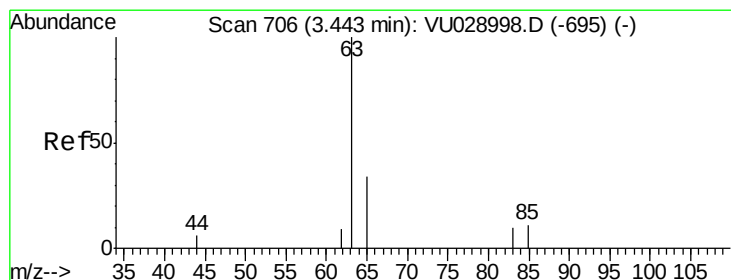
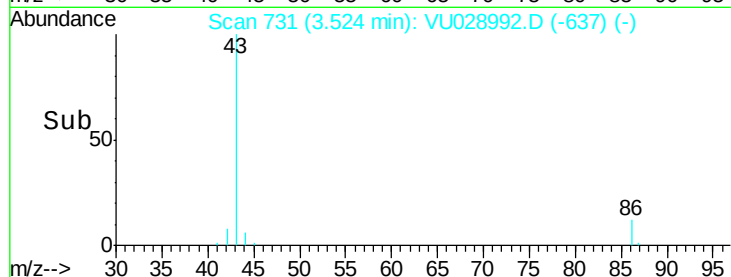
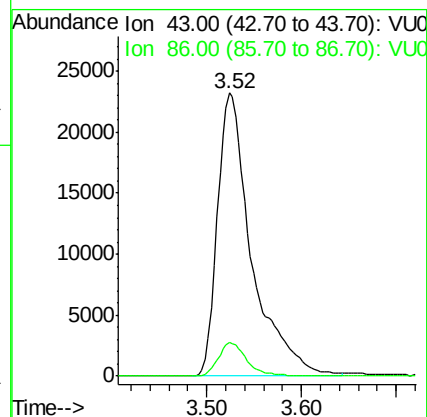
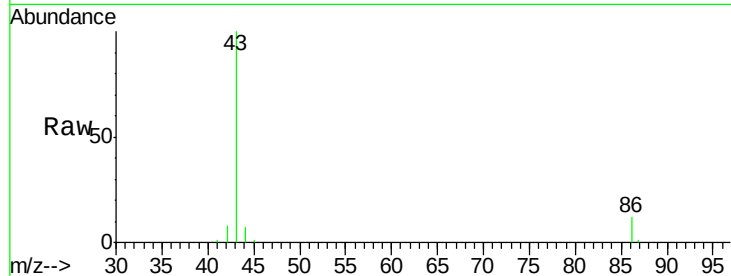
43 100

86 11.9 6.8 10.2#

Manual Integrations
APPROVED

MMDadoda

1/4/2019 9:50:48 AM



#24

1,1-Dichloroethane

Concen: 2.628 ug/l

RT: 3.44 min Scan# 705

Delta R.T. -0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

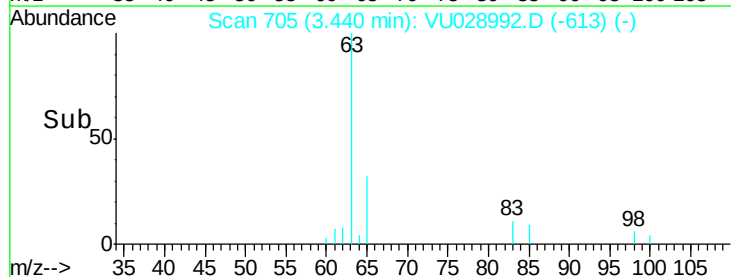
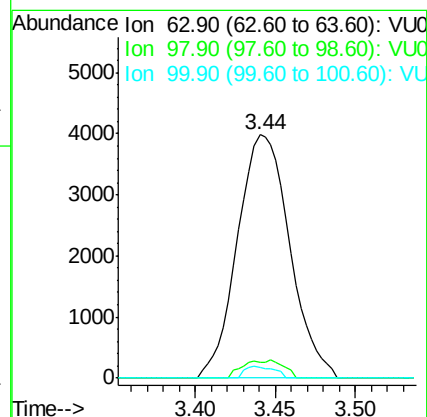
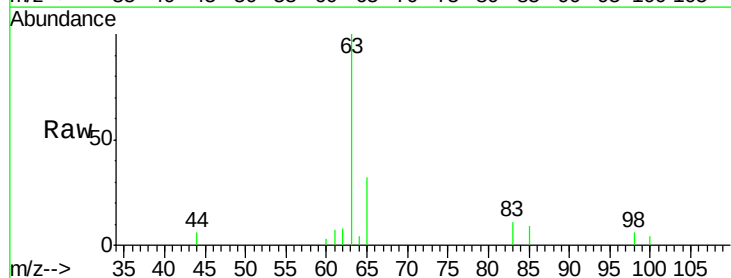
Tgt Ion: 63 Resp: 8896

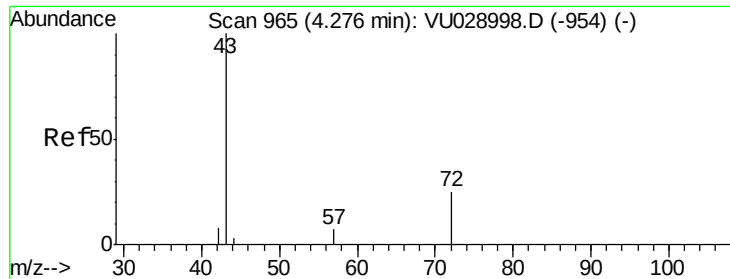
Ion Ratio Lower Upper

63 100

98 6.3 3.0 9.2

100 4.5 1.7 5.1





#25

2-Butanone

Concen: 11.711 ug/l

RT: 4.27 min Scan# 962

Delta R.T. 0.01 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 20125

Ion Ratio Lower Upper

43 100

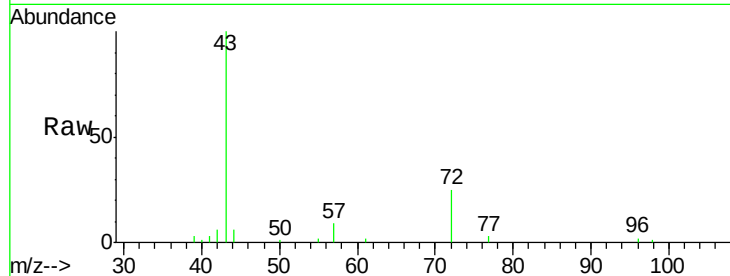
72 25.4 18.6 28.0

Manual Integrations

APPROVED

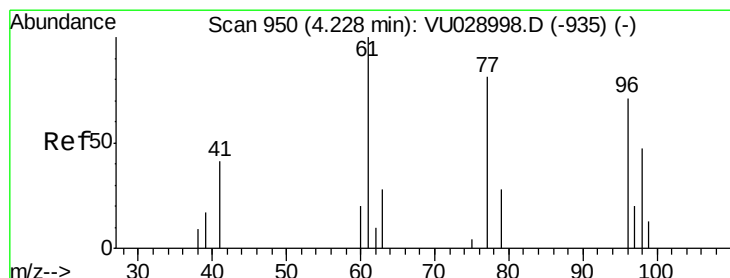
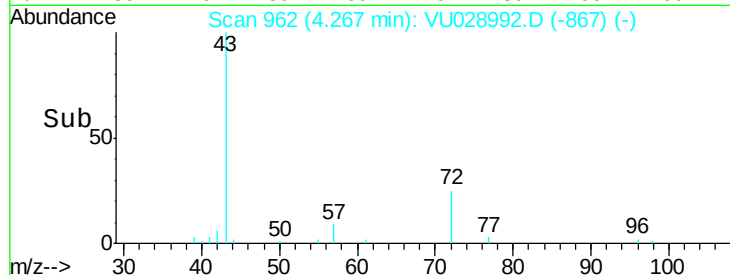
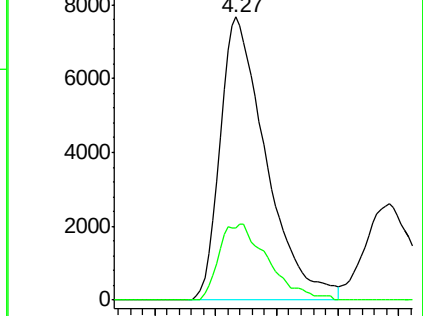
MMDadoda

1/4/2019 9:50:48 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 2.564 ug/l

RT: 4.22 min Scan# 948

Delta R.T. -0.00 min

Lab File: VU028992.D

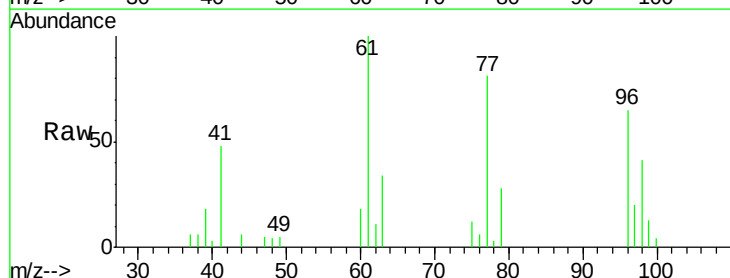
Acq: 03 Jan 2019 13:05

Tgt Ion: 77 Resp: 6879

Ion Ratio Lower Upper

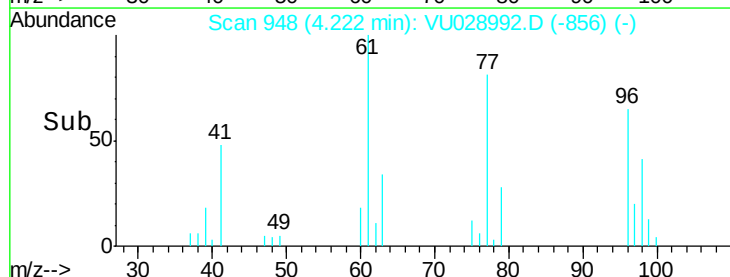
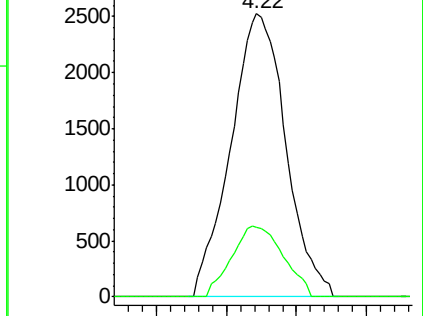
77 100

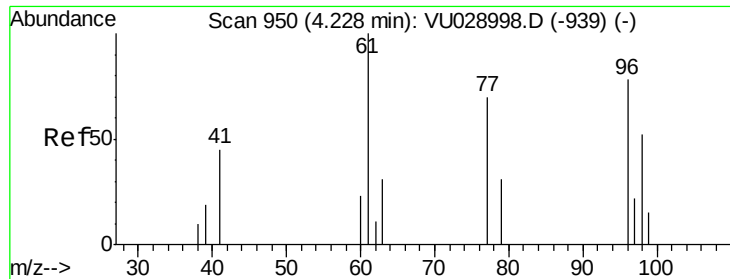
97 23.4 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

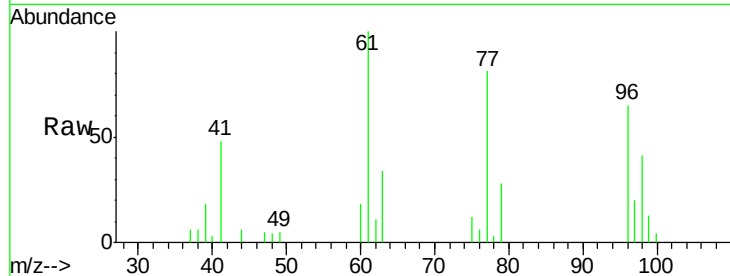
cis-1,2-Dichloroethene
Concen: 2.869 ug/l
RT: 4.22 min Scan# 948
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.8	0.0	332.4
98	65.1	0.0	129.0

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM

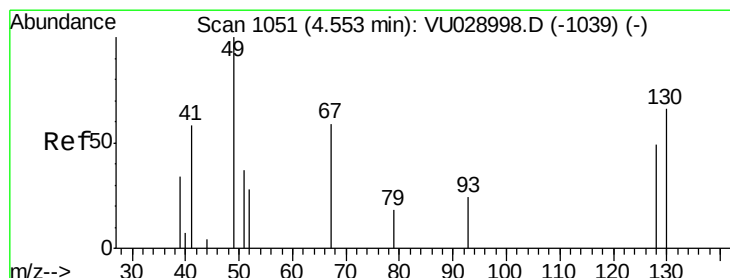
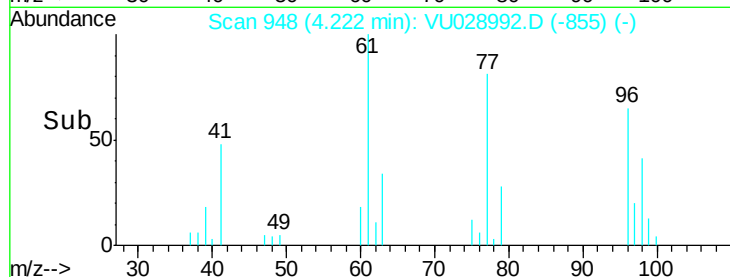
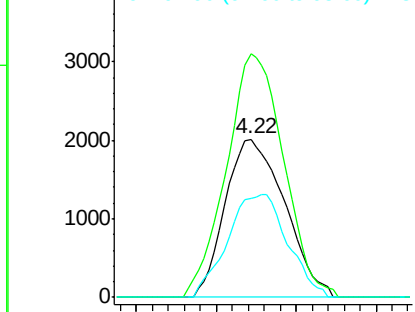


Abundance

Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

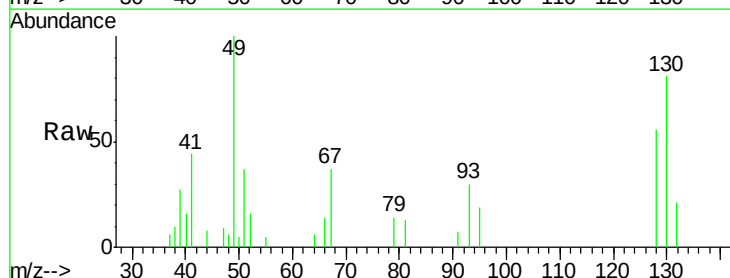
Ion 97.90 (97.60 to 98.60): VU0



#28

Bromochloromethane
Concen: 3.897 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. -0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.0
130	81.5	47.8	71.8#

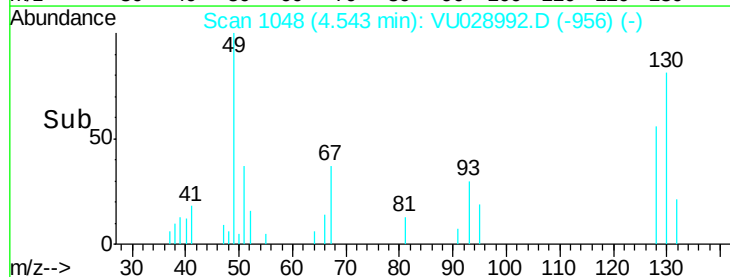
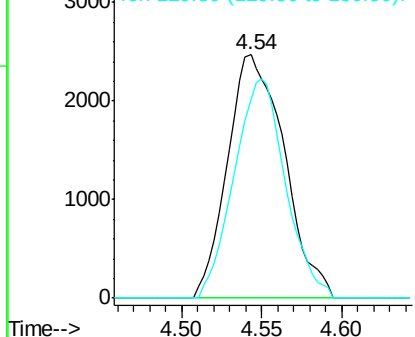


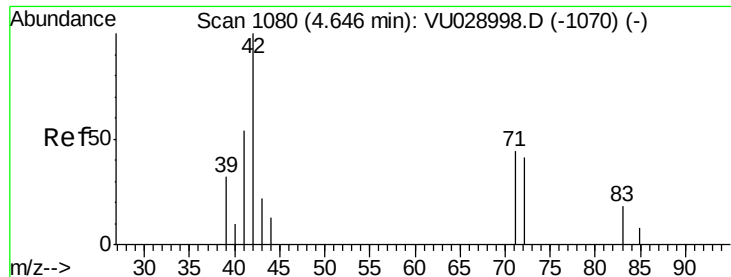
Abundance

Ion 48.90 (48.60 to 49.60): VU0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 11.545 ug/l

RT: 4.64 min Scan# 1079

Delta R.T. 0.01 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

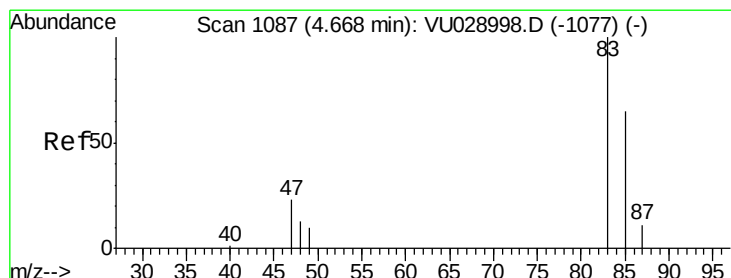
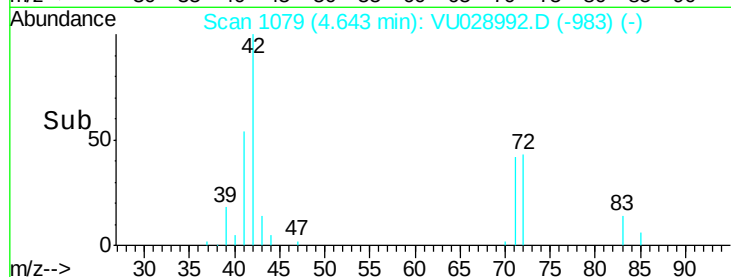
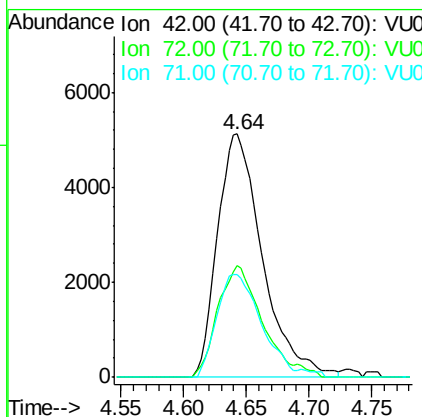
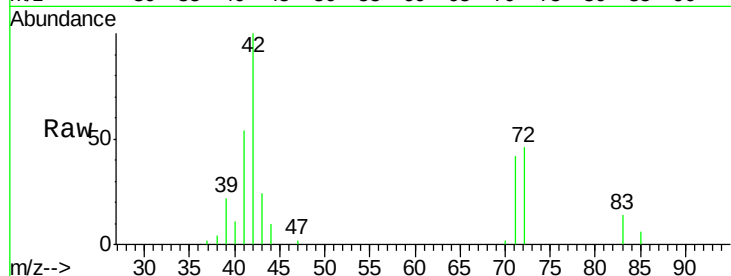
ClientSampleId :

VSTDIC005

Tot Ion:	42	Resp:	12742
Ion	Ratio	Lower	Upper
42	100		
72	45.8	31.4	47.0
71	42.7	28.6	43.0

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM



#30

Chloroform

Concen: 2.822 ug/l

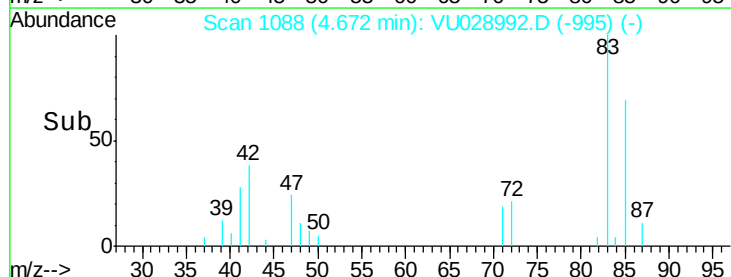
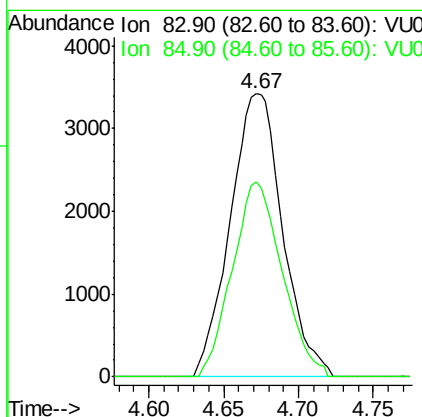
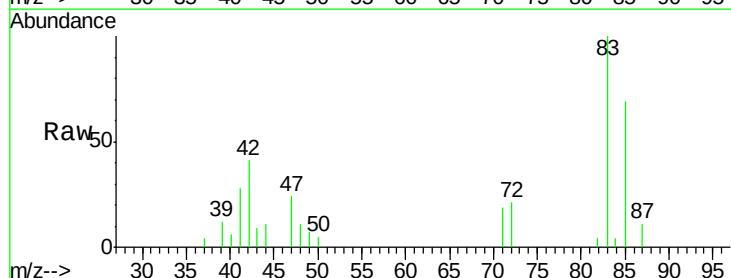
RT: 4.67 min Scan# 1088

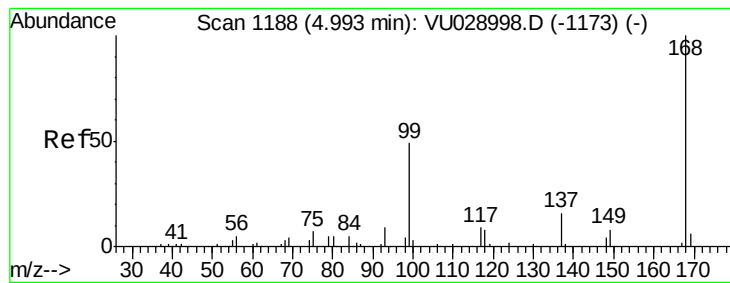
Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Tgt Ion:	83	Resp:	8328
Ion	Ratio	Lower	Upper
83	100		
85	69.0	53.6	80.4





#31

Cyclohexane

Concen: 2.738 ug/l

RT: 4.99 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

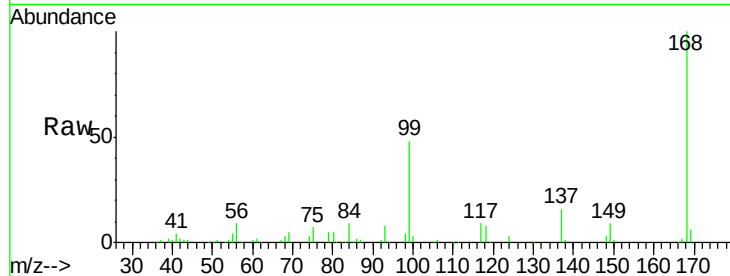
VSTDIC005

Tot Ion: 56 Resp: 10874

Ion	Ratio	Lower	Upper
56	100		
69	55.9	24.0	36.0#
84	97.1	59.7	89.5#

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM

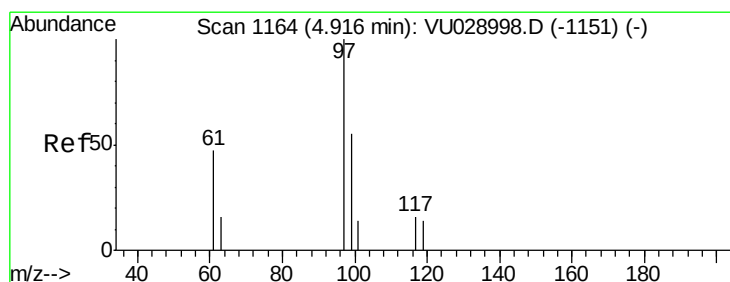
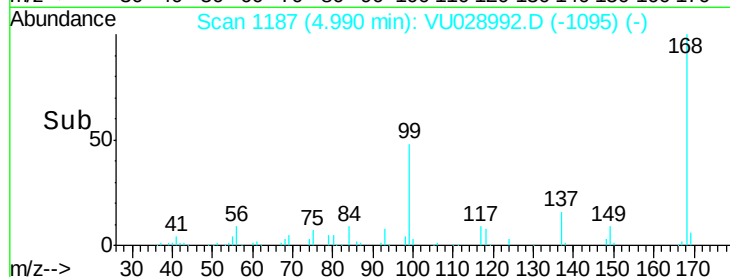
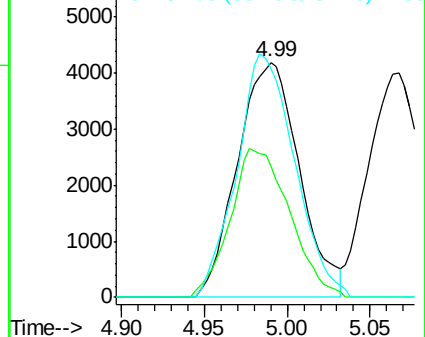


Abundance

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



#32

1,1,1-Trichloroethane

Concen: 2.921 ug/l

RT: 4.91 min Scan# 1162

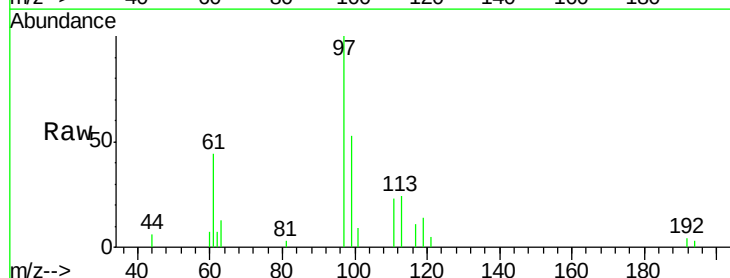
Delta R.T. -0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Tgt Ion: 97 Resp: 7159

Ion	Ratio	Lower	Upper
97	100		
99	56.3	52.3	78.5
61	42.1	39.0	58.6

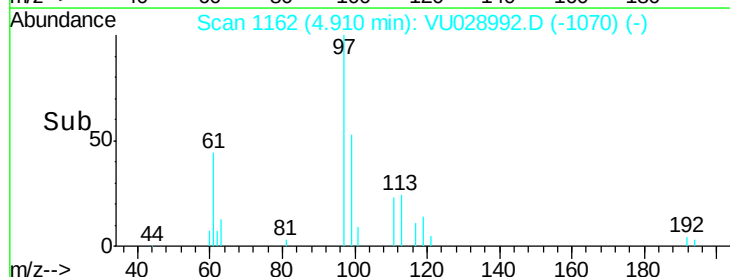
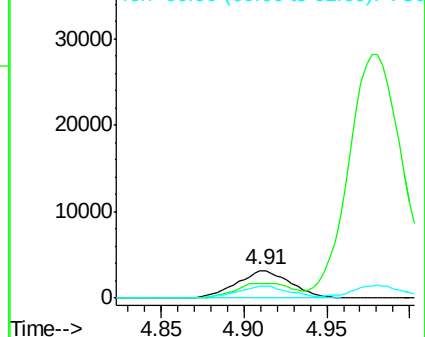


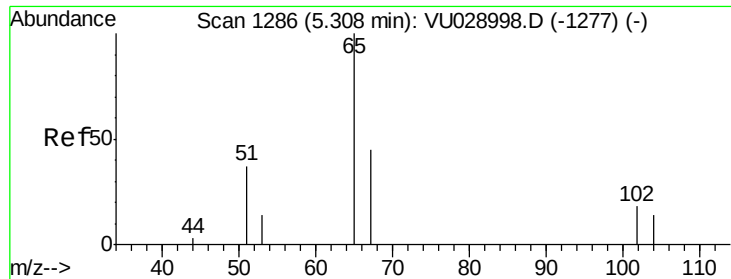
Abundance

Ion 96.90 (96.60 to 97.60): VU0

Ion 98.90 (98.60 to 99.60): VU0

Ion 60.90 (60.60 to 61.60): VU0





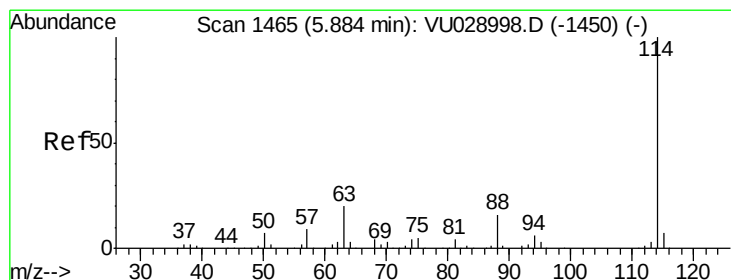
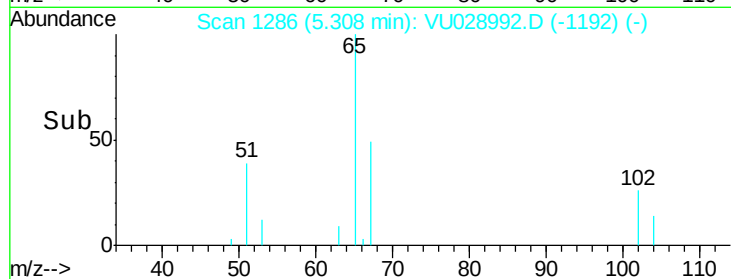
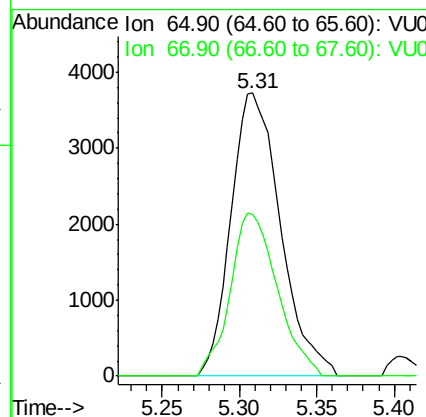
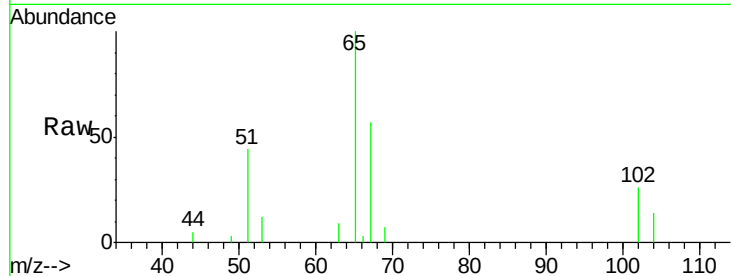
#33
 1,2-Dichloroethane-d4
 Concen: 4.308 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	110.6

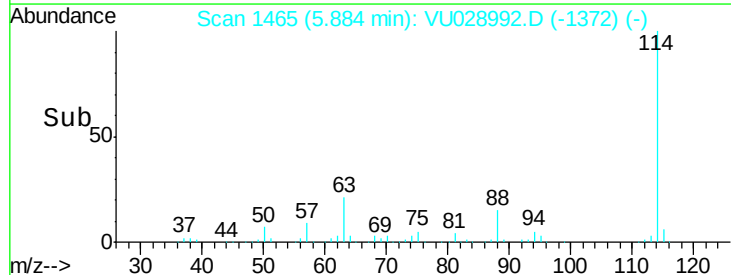
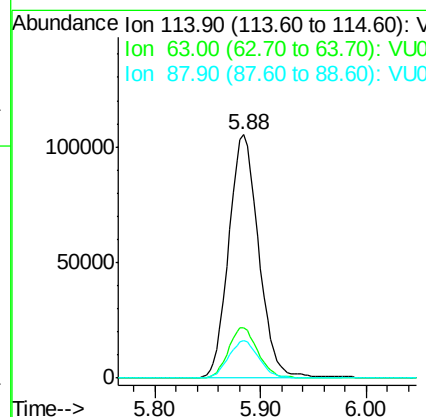
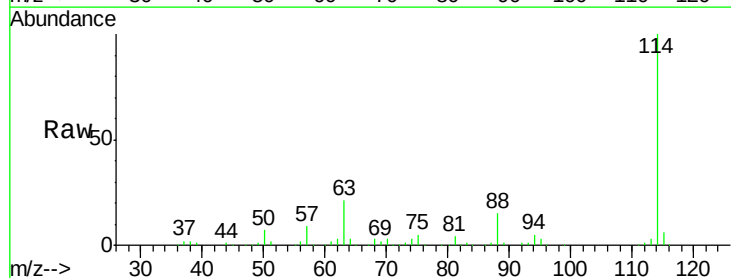
Manual Integrations
 APPROVED

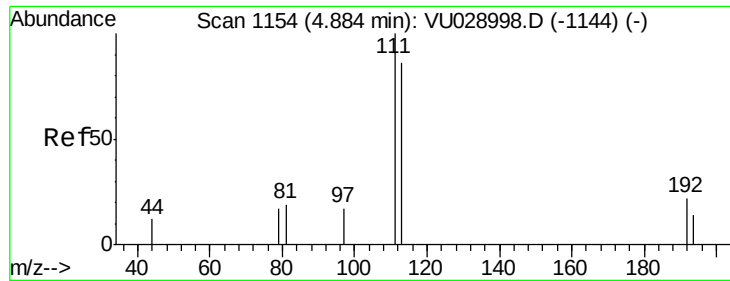
MMDadoda
 1/4/2019 9:50:48 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	49.2
88	15.3	0.0	33.4





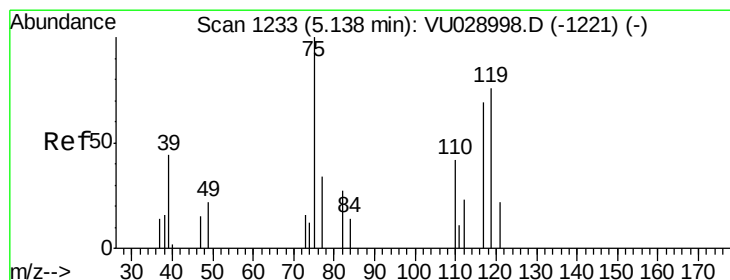
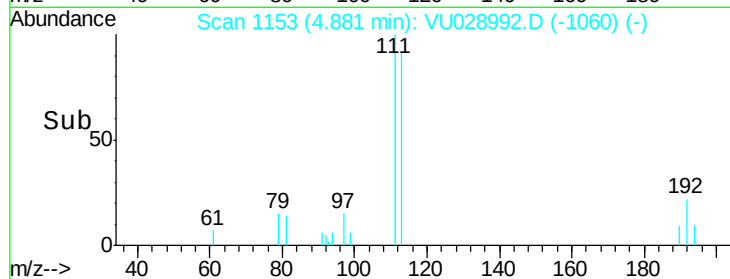
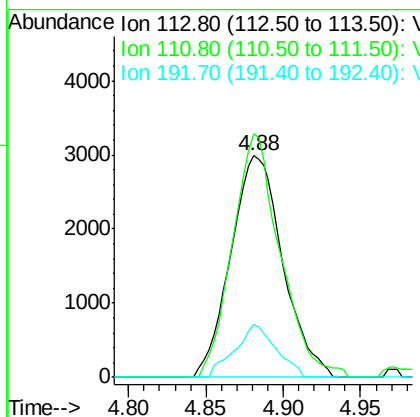
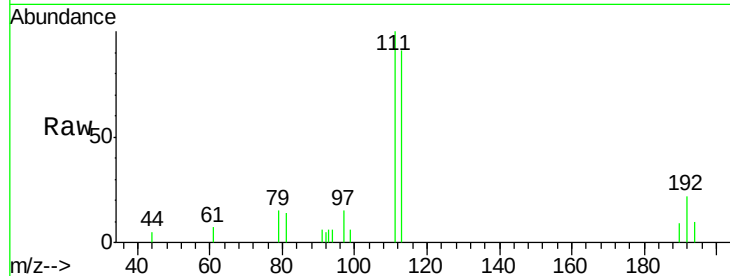
#35
 Dibromofluoromethane
 Concen: 5.358 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.8	83.4	125.0
192	18.9	14.8	22.2

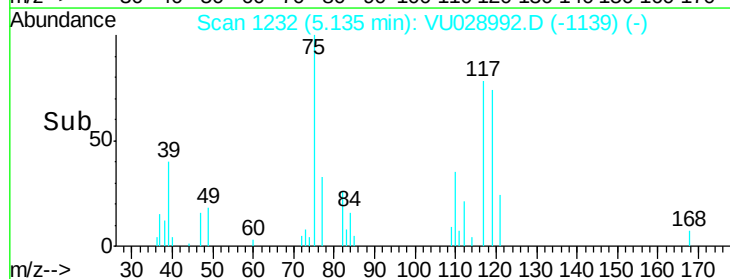
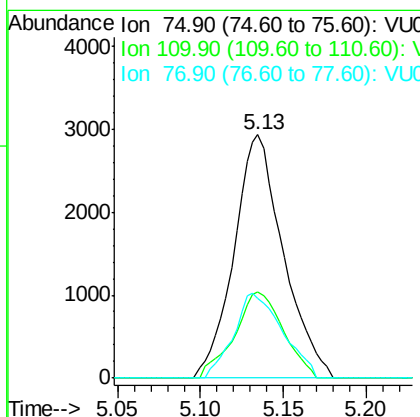
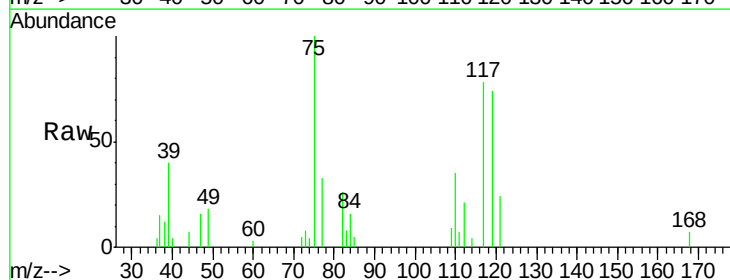
Manual Integrations
 APPROVED

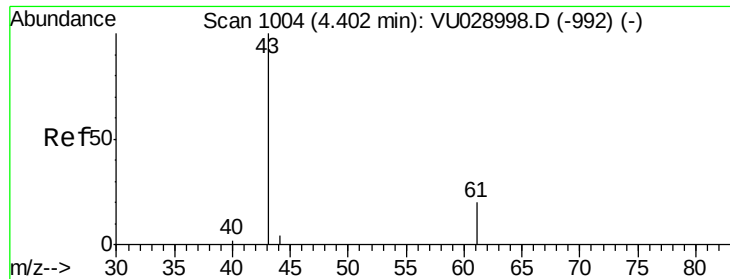
MMDadoda
 1/4/2019 9:50:48 AM



#36
 1,1-Dichloropropene
 Concen: 2.670 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.1	16.1	48.2
77	34.4	24.5	36.7





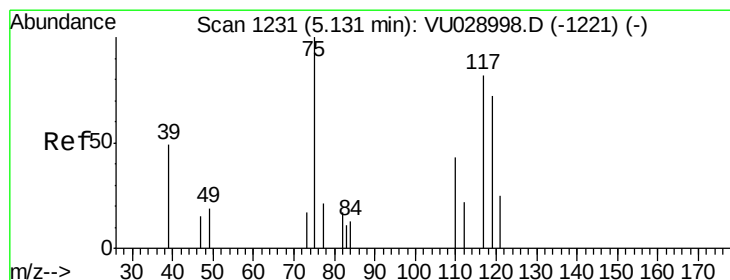
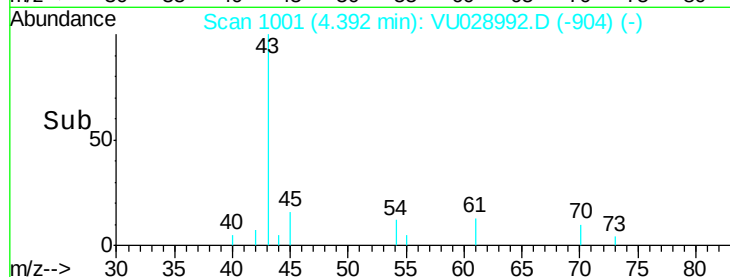
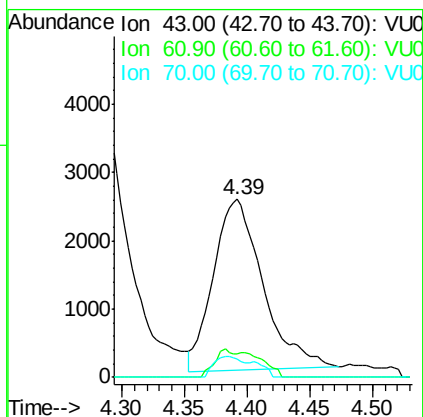
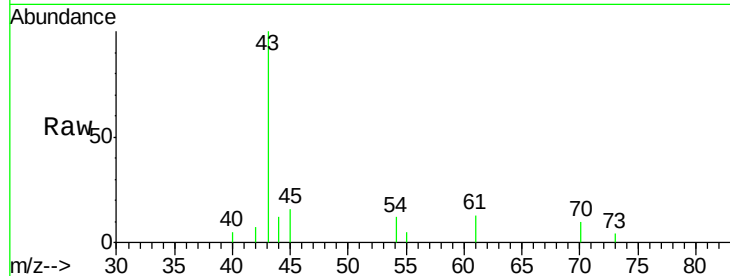
#37
Ethyl Acetate
Concen: 2.350 ug/l
RT: 4.39 min Scan# 1001
Delta R.T. 0.01 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 6883
Ion Ratio Lower Upper
43 100
61 6.1 11.0 16.4#
70 10.0 7.4 11.0

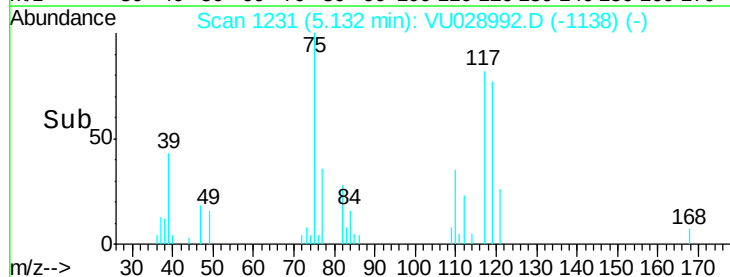
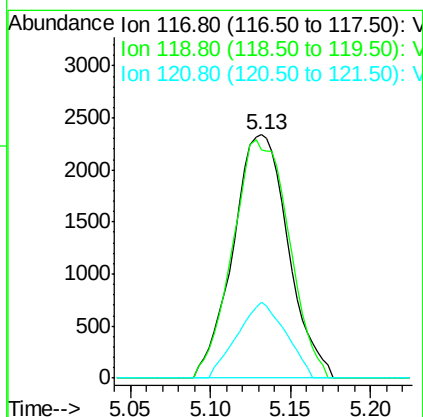
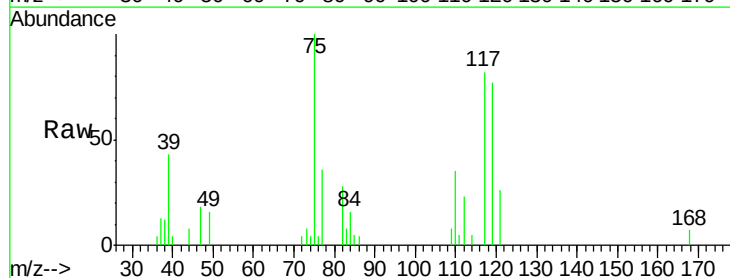
Manual Integrations
APPROVED

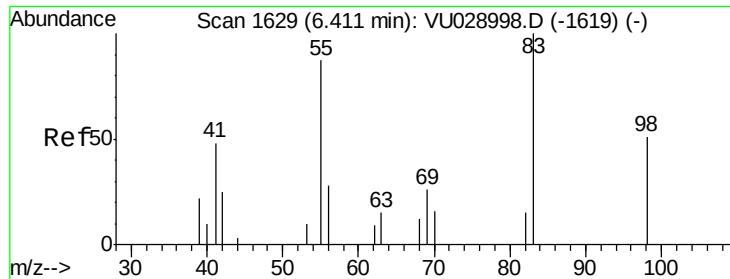
MMDadoda
1/4/2019 9:50:48 AM



#38
Carbon Tetrachloride
Concen: 3.015 ug/l
RT: 5.13 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion: 117 Resp: 5506
Ion Ratio Lower Upper
117 100
119 93.9 77.6 116.4
121 31.3 24.6 36.8





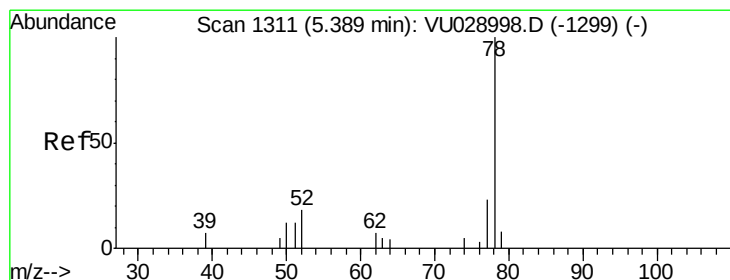
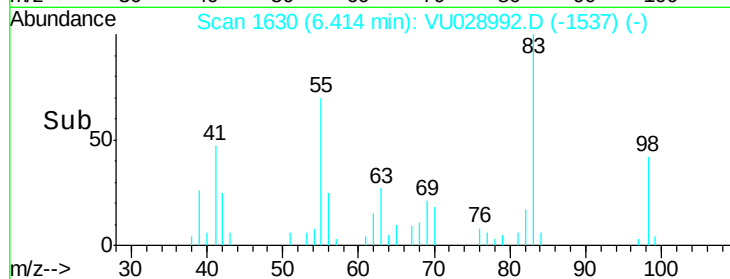
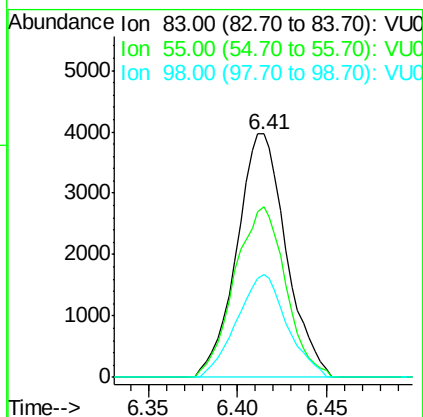
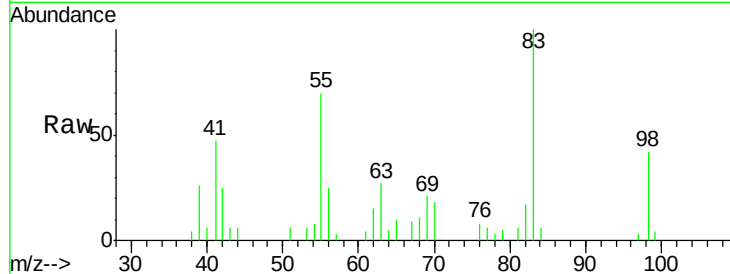
#39
Methylvlcyclohexane
Concen: 2.769 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	70.2	70.2	105.2
98	42.1	34.2	51.4

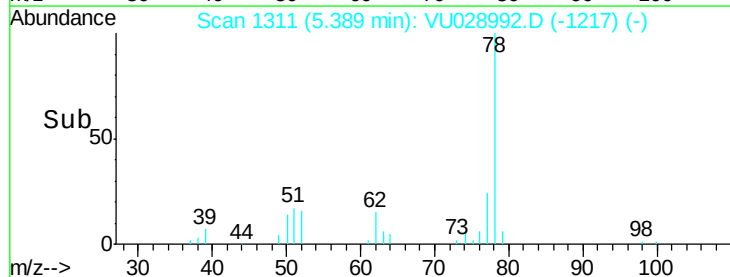
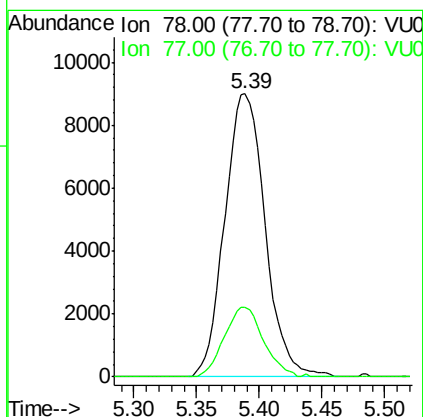
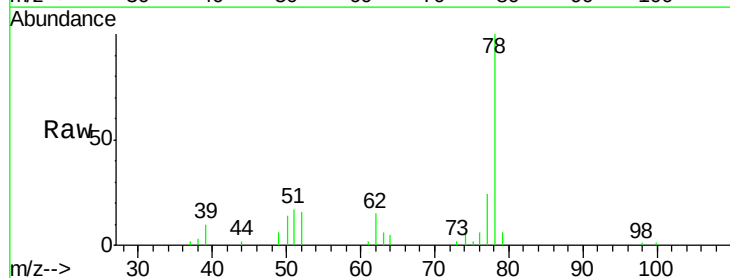
Manual Integrations
APPROVED

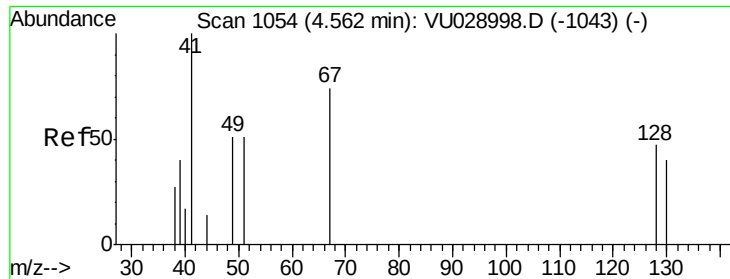
MMDadoda
1/4/2019 9:50:48 AM



#40
Benzene
Concen: 3.013 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.9	29.9





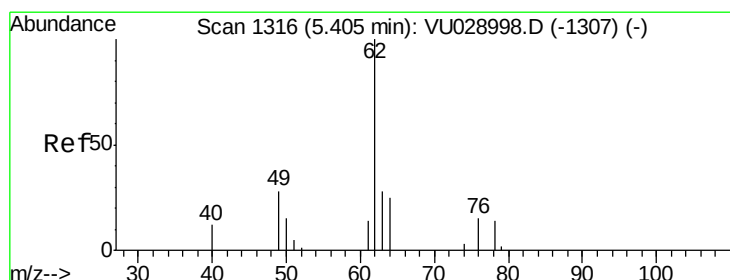
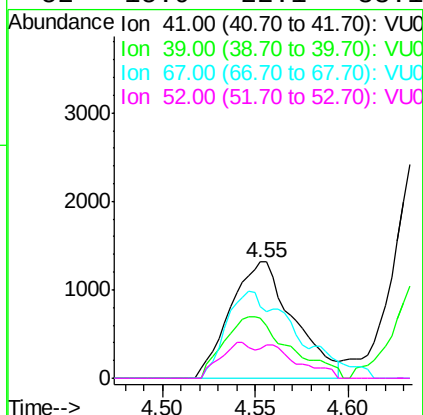
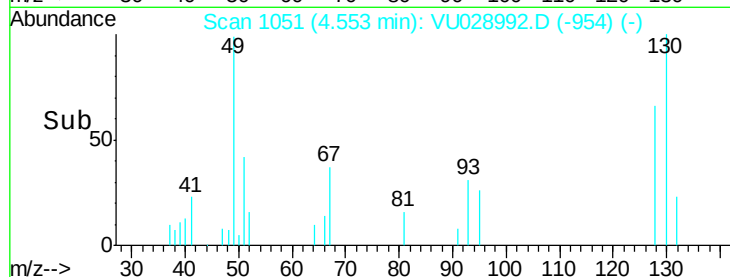
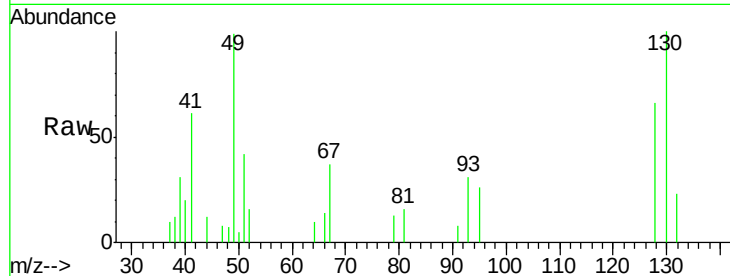
#41
Methacrylonitrile
Concen: 1.944 ug/l
RT: 4.55 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.2	43.3	64.9
67	83.5	53.6	80.4
52	15.9	22.1	33.1

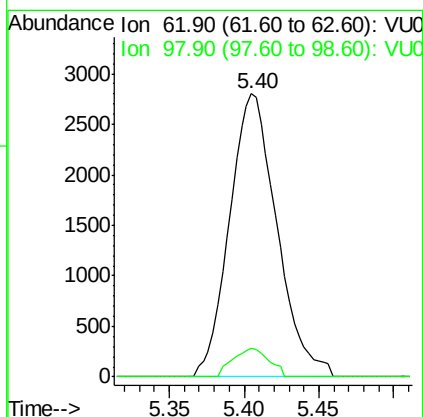
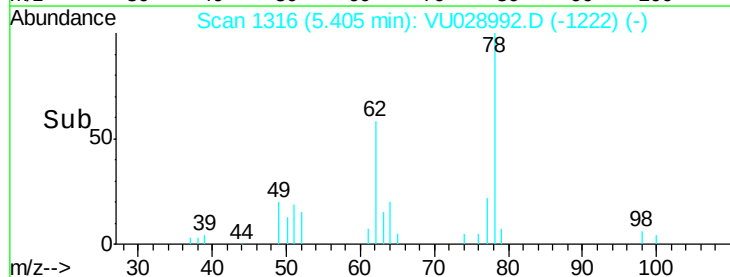
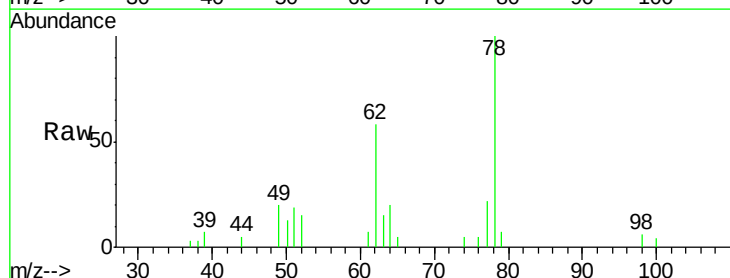
Manual Integrations
APPROVED

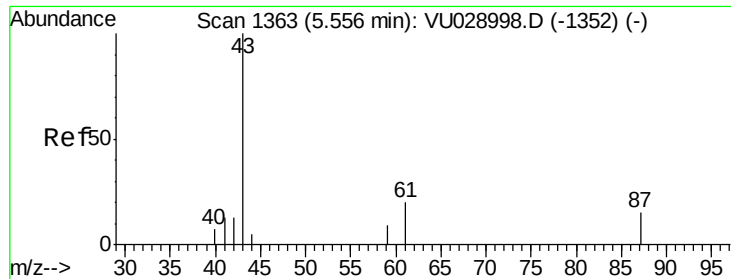
MMDadoda
1/4/2019 9:50:48 AM



#42
1,2-Dichloroethane
Concen: 2.645 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	17.2





#43

Isopropyl Acetate

Concen: 2.317 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

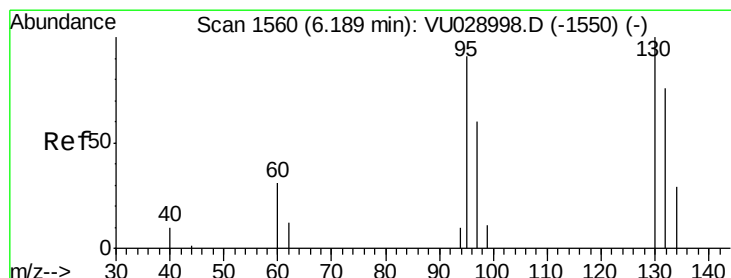
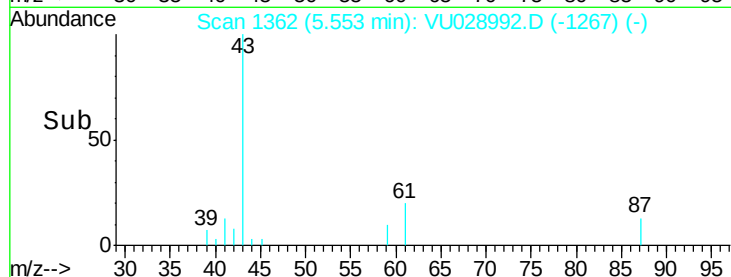
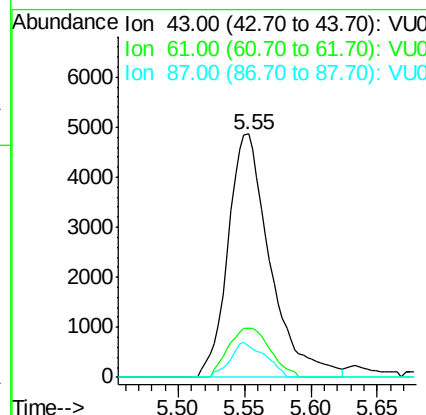
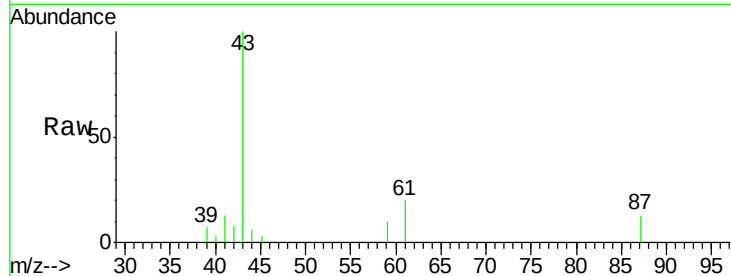
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	10735
Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.5	23.3
87	11.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM



#44

Trichloroethene

Concen: 3.278 ug/l

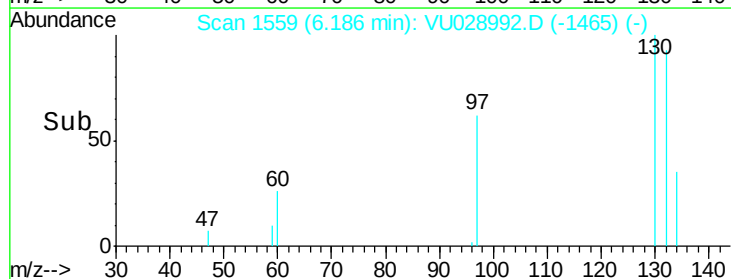
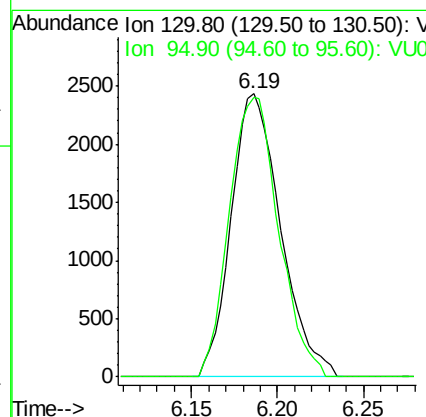
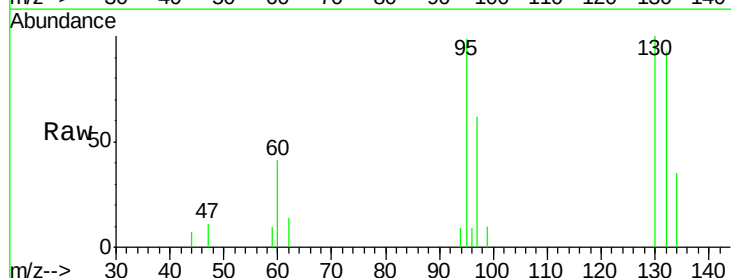
RT: 6.19 min Scan# 1559

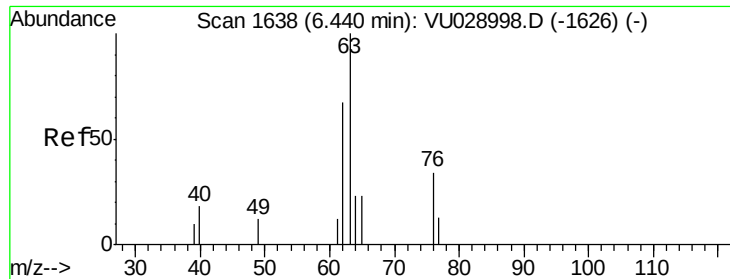
Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Tgt Ion:	130	Resp:	4864
Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	224.0





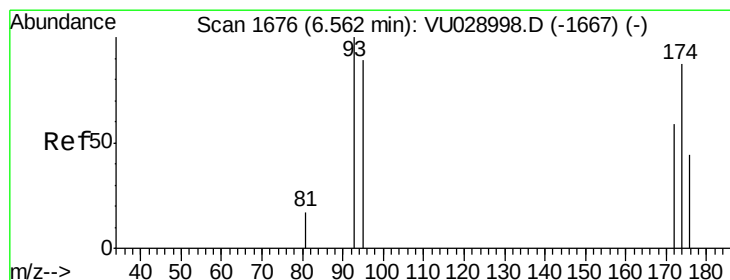
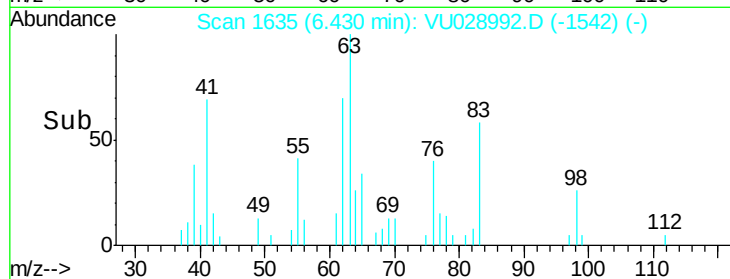
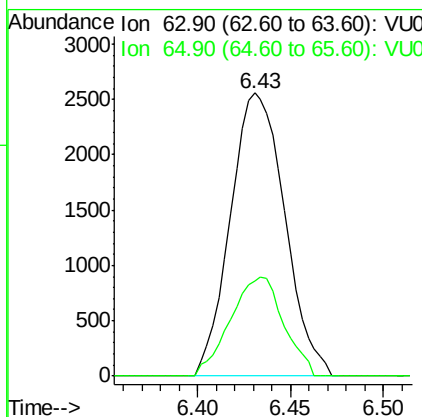
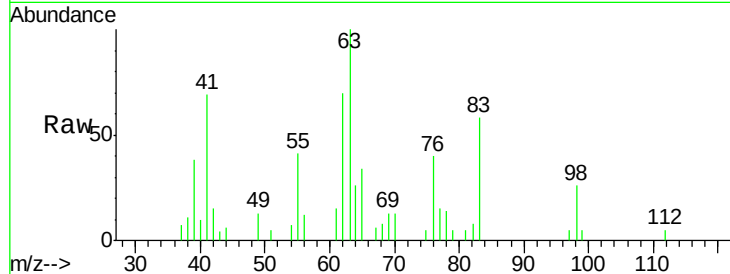
#45
 1,2-Dichloropropane
 Concen: 2.773 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 5203
 Ion Ratio Lower Upper
 63 100
 65 33.8 24.2 36.4

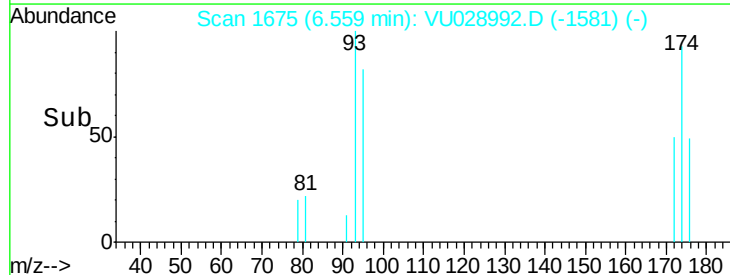
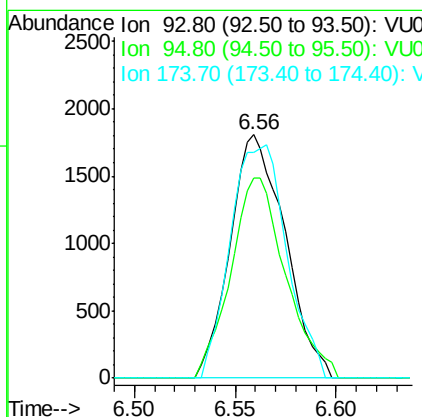
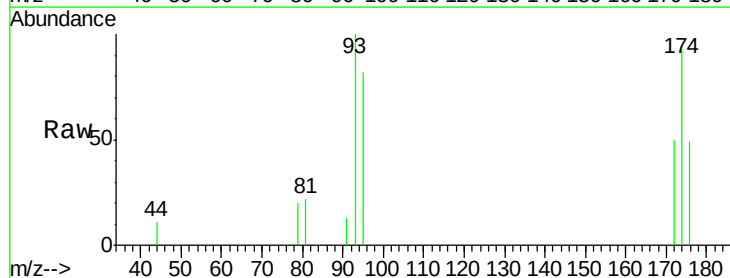
Manual Integrations
 APPROVED

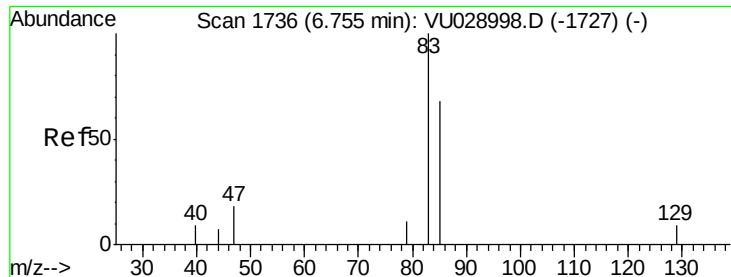
MMDadoda
 1/4/2019 9:50:48 AM



#46
 Dibromomethane
 Concen: 3.087 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Tgt Ion: 93 Resp: 3437
 Ion Ratio Lower Upper
 93 100
 95 82.2 65.4 98.2
 174 98.7 72.2 108.4





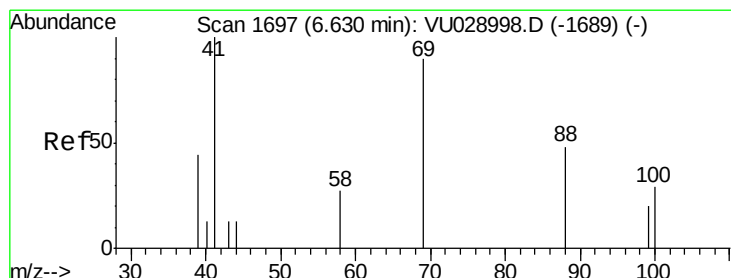
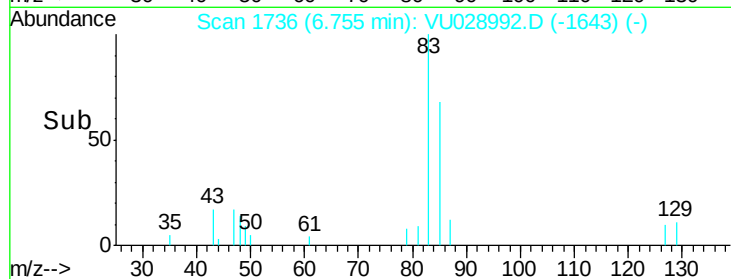
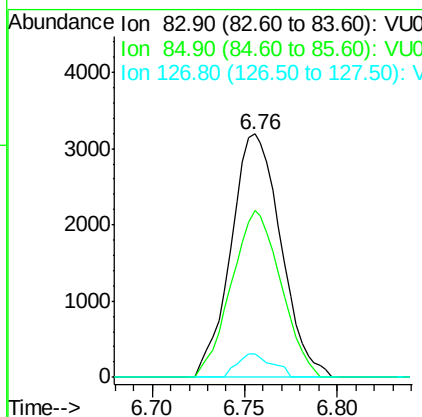
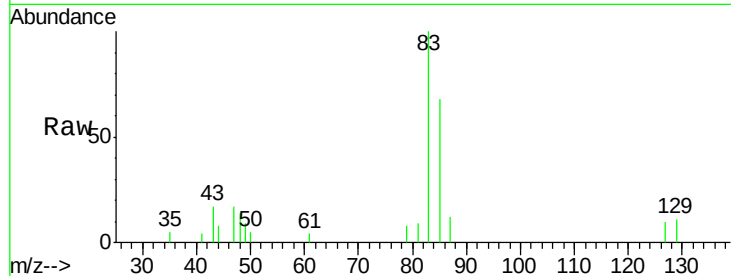
#47
 Bromodichloromethane
 Concen: 2.750 ug/l
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
85	68.5	51.5	77.3
127	9.8	6.2	9.4

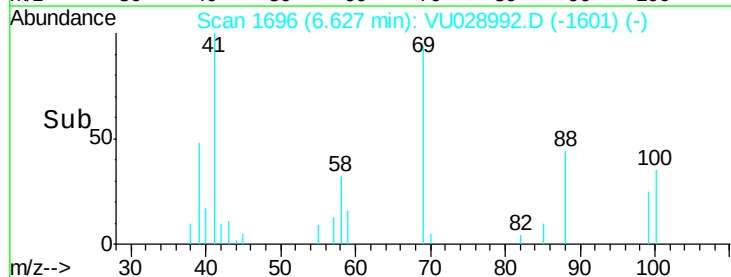
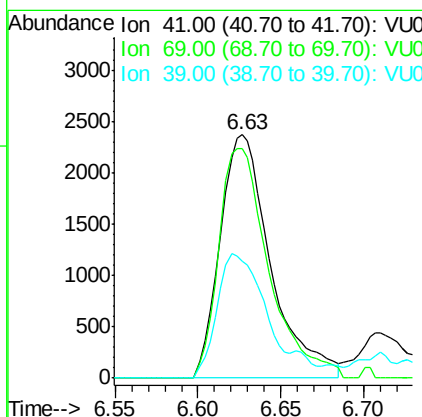
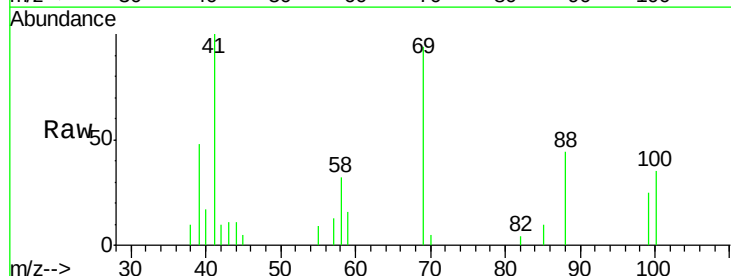
Manual Integrations
 APPROVED

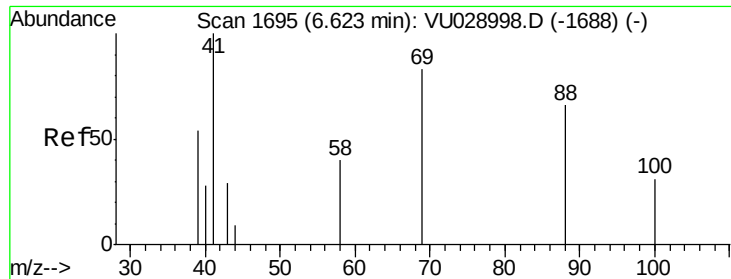
MMDadoda
 1/4/2019 9:50:48 AM



#48
 Methyl methacrylate
 Concen: 2.182 ug/l
 RT: 6.63 min Scan# 1696
 Delta R.T. 0.01 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
41	100		
69	93.2	60.4	90.6
39	51.2	41.1	61.7





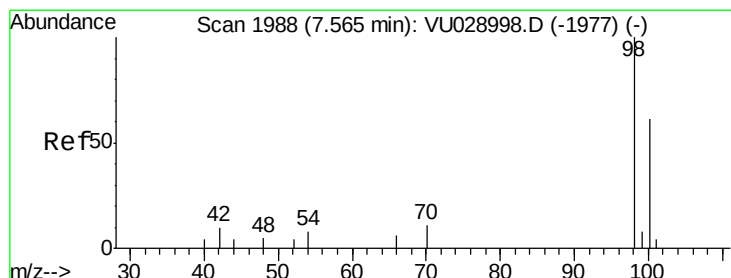
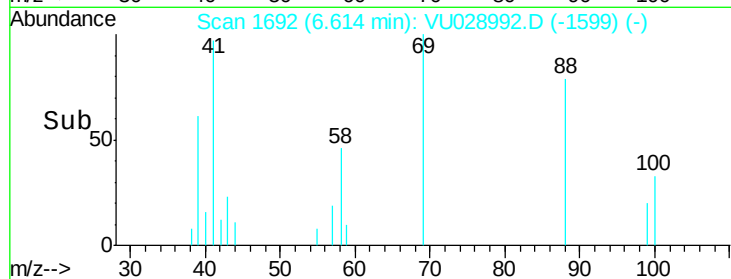
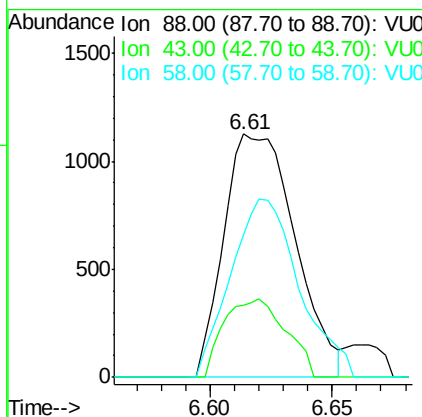
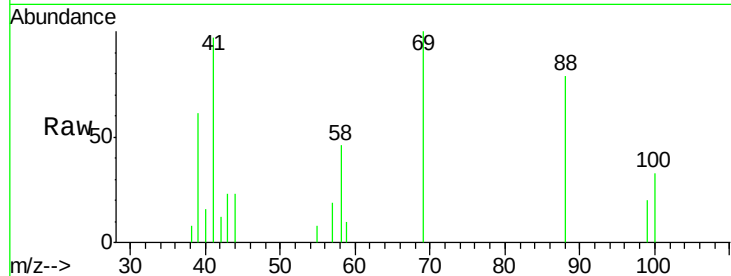
#49
1,4-Dioxane
Concen: 62.786 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 88 Resp: 2284
Ion Ratio Lower Upper
88 100
43 28.0 30.9 46.3#
58 70.6 62.4 93.6

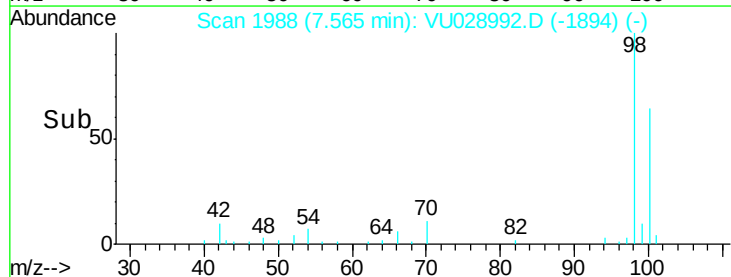
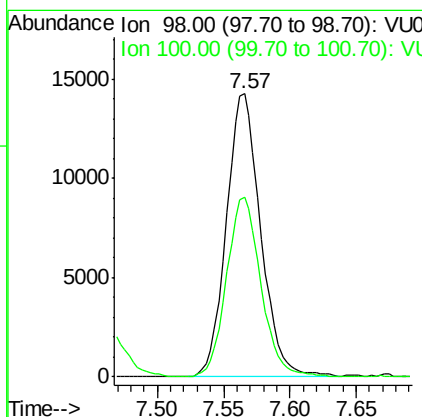
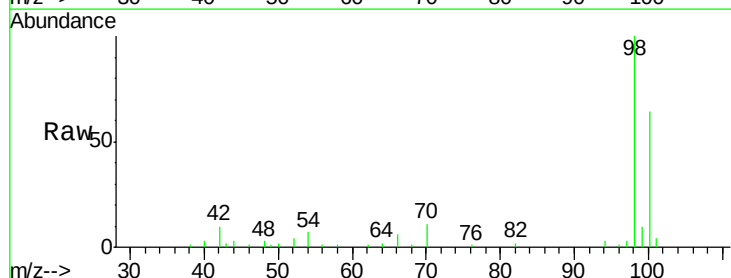
Manual Integrations
APPROVED

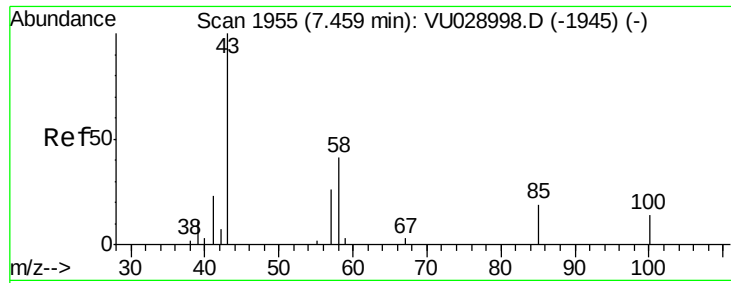
MMDadoda
1/4/2019 9:50:48 AM



#50
Toluene-d8
Concen: 4.974 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion: 98 Resp: 25641
Ion Ratio Lower Upper
98 100
100 63.6 51.0 76.6





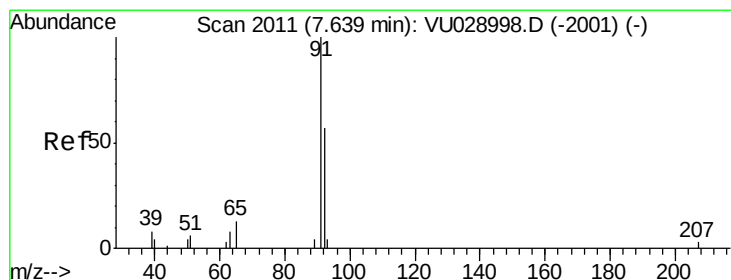
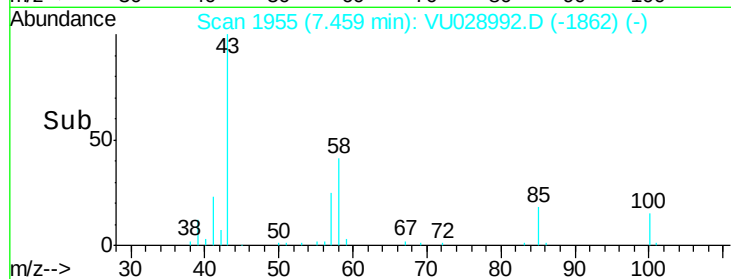
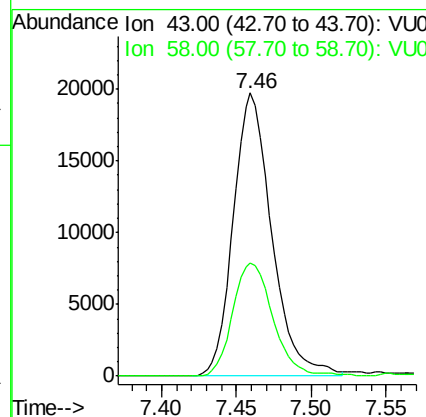
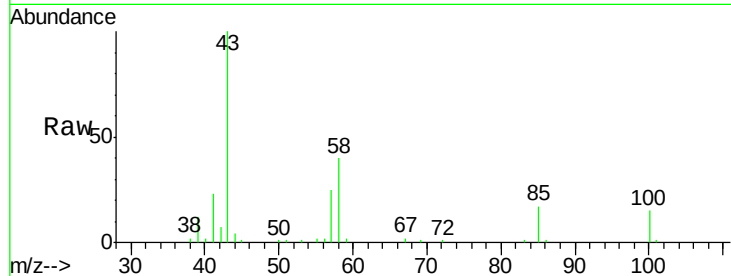
#51
4-Methyl-2-Pentanone
Concen: 12.120 ug/l
RT: 7.46 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	43	58	Resp	Lower	Upper
43	100				
58	41.9		30.2	45.2	

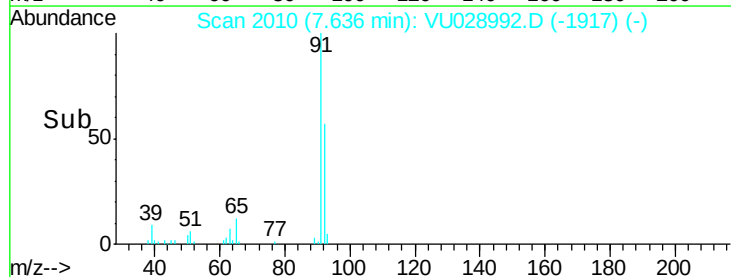
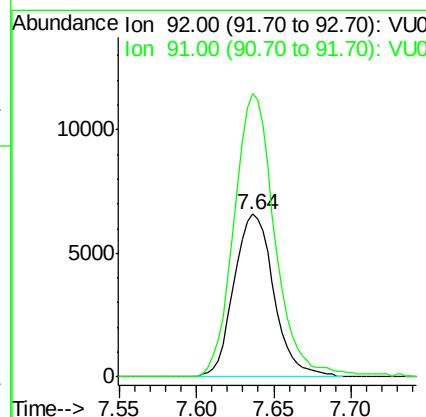
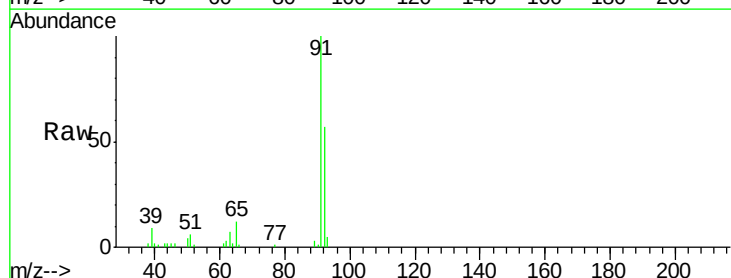
Manual Integrations
APPROVED

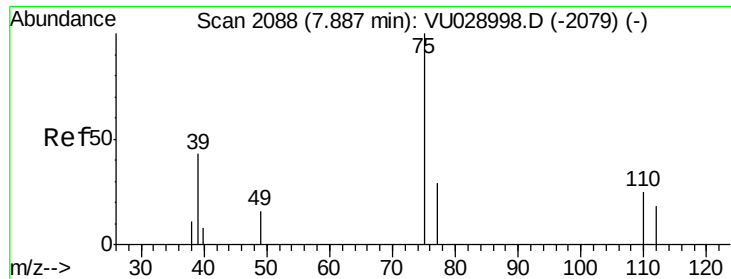
MMDadoda
1/4/2019 9:50:48 AM



#52
Toluene
Concen: 3.004 ug/l
RT: 7.64 min Scan# 2010
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion	92	91	Resp	Lower	Upper
92	100				
91	178.2		140.2	210.4	





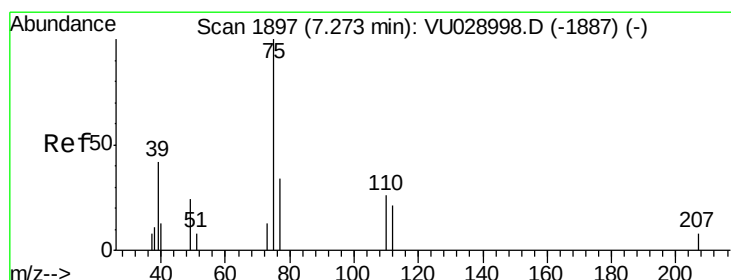
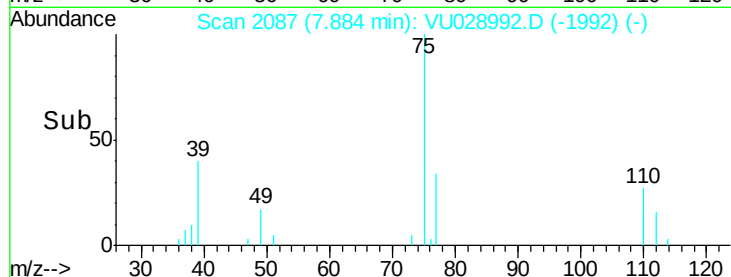
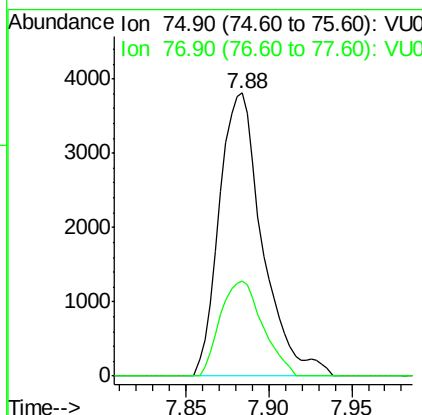
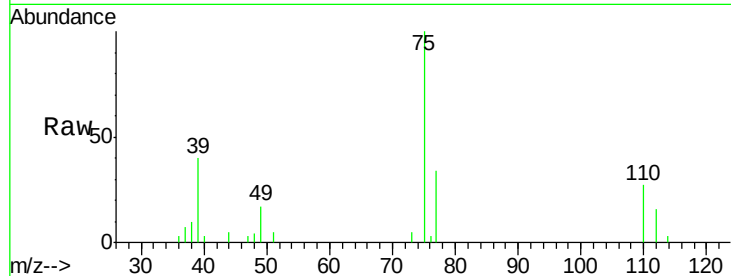
#53
t-1,3-Dichloropropene
Concen: 2.679 ug/l
RT: 7.88 min Scan# 2087
Delta R.T. 0.01 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 6914
Ion Ratio Lower Upper
75 100
77 33.6 24.2 36.4

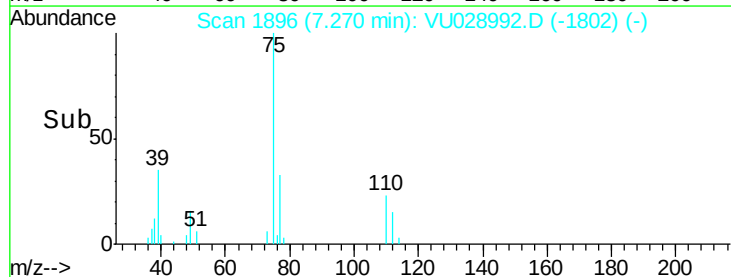
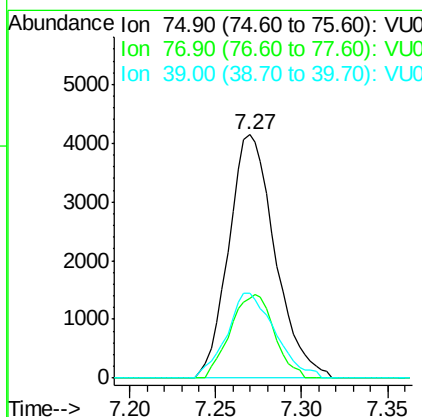
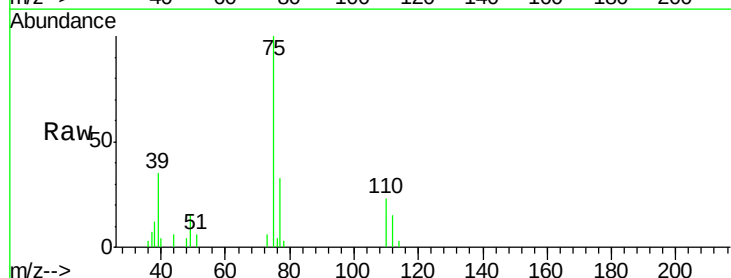
Manual Integrations
APPROVED

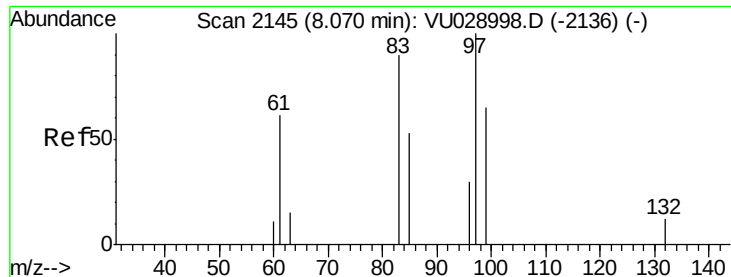
MMDadoda
1/4/2019 9:50:48 AM



#54
cis-1,3-Dichloropropene
Concen: 2.779 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion: 75 Resp: 7779
Ion Ratio Lower Upper
75 100
77 32.7 25.0 37.4
39 35.0 41.3 61.9#





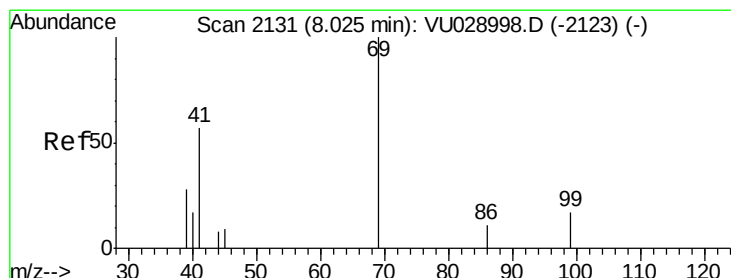
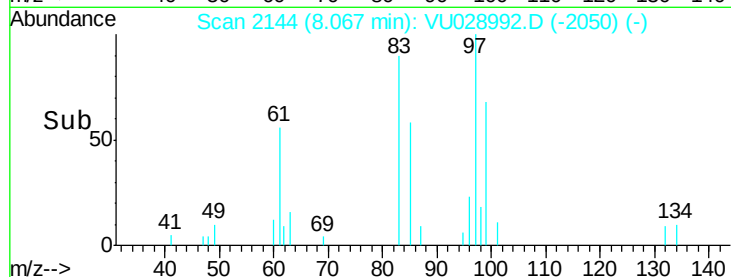
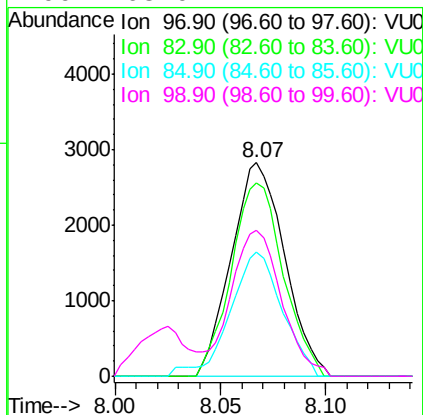
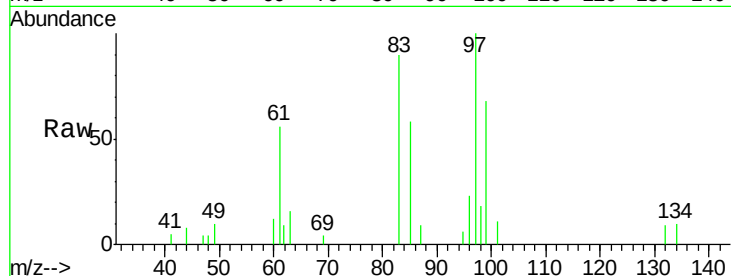
#55
1,1,2-Trichloroethane
Concen: 3.199 ug/l
RT: 8.07 min Scan# 2144
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:	97	Resp:	4967
Ion	Ratio	Lower	Upper
97	100		
83	90.4	72.4	108.6
85	58.4	46.0	69.0
99	68.0	47.4	71.2

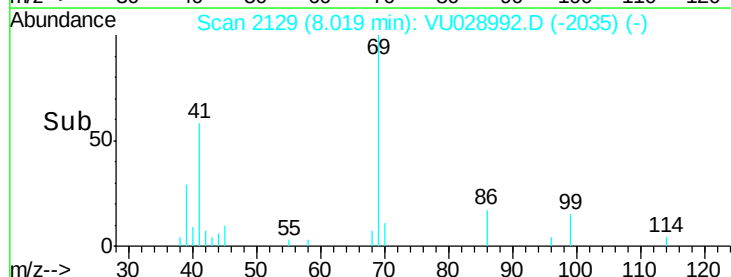
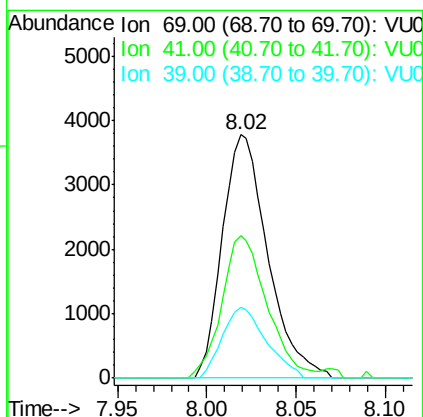
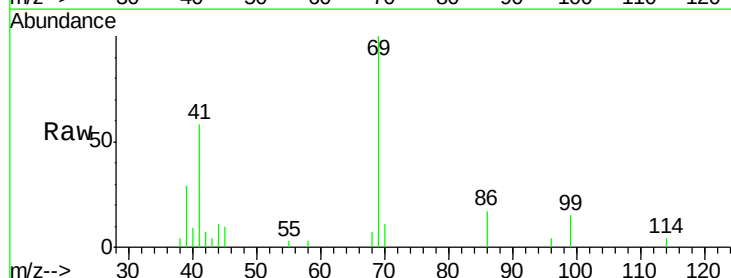
Manual Integrations
APPROVED

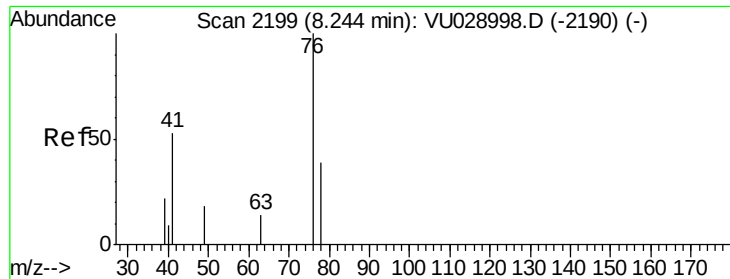
MMDadoda
1/4/2019 9:50:48 AM



#56
Ethyl methacrylate
Concen: 2.510 ug/l
RT: 8.02 min Scan# 2129
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion:	69	Resp:	6673
Ion	Ratio	Lower	Upper
69	100		
41	58.1	59.1	88.7#
39	28.3	28.4	42.6#





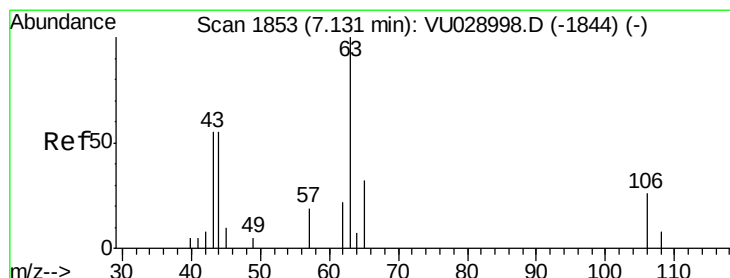
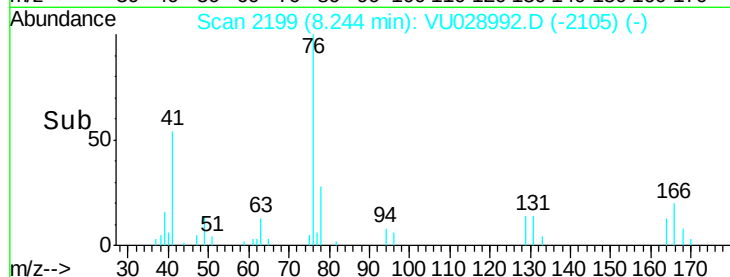
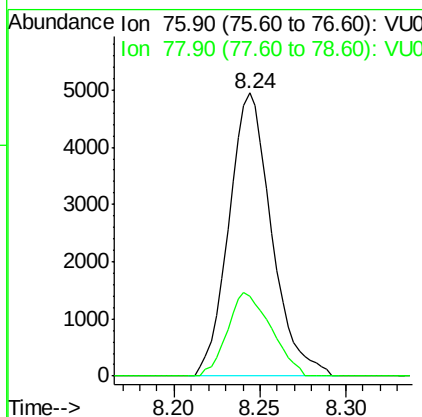
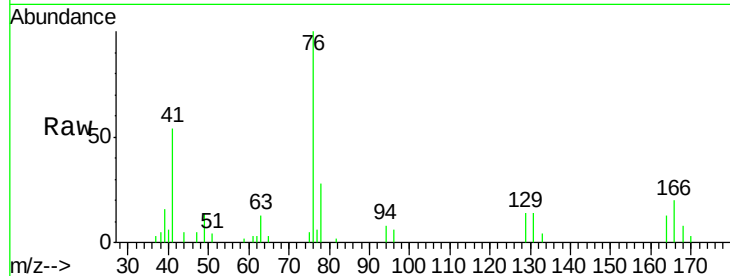
#57
 1,3-Dichloropropane
 Concen: 2.975 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion: 76 Resp: 8574
 Ion Ratio Lower Upper
 76 100
 78 30.0 25.2 37.8

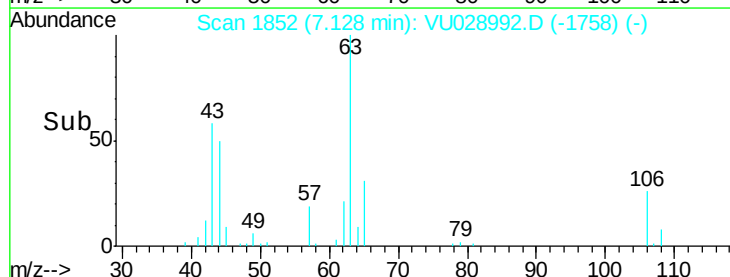
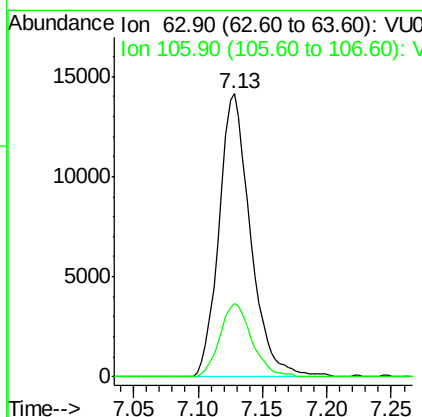
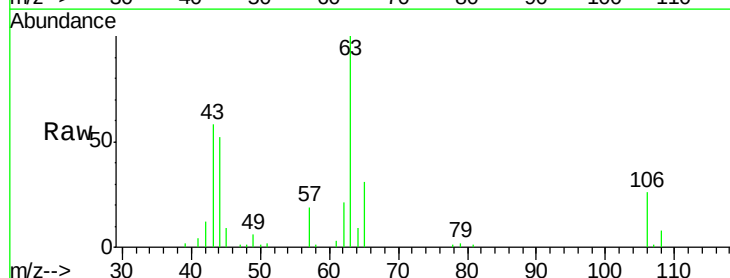
Manual Integrations
 APPROVED

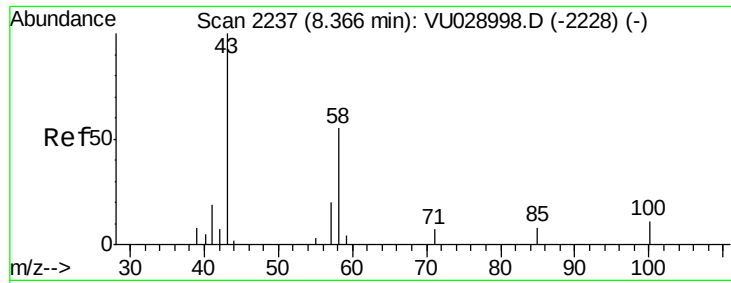
MMDadoda
 1/4/2019 9:50:48 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 17.588 ug/l
 RT: 7.13 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Tgt Ion: 63 Resp: 23950
 Ion Ratio Lower Upper
 63 100
 106 26.3 17.8 26.6





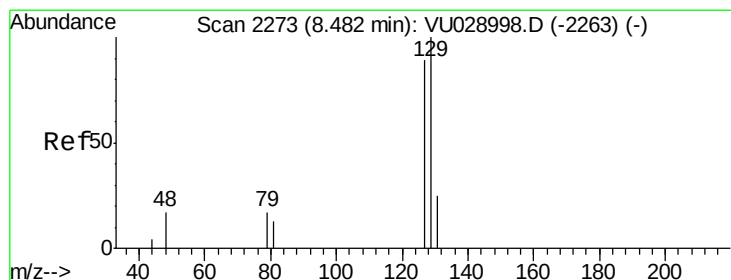
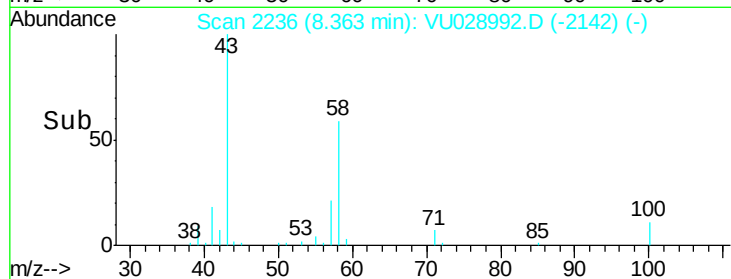
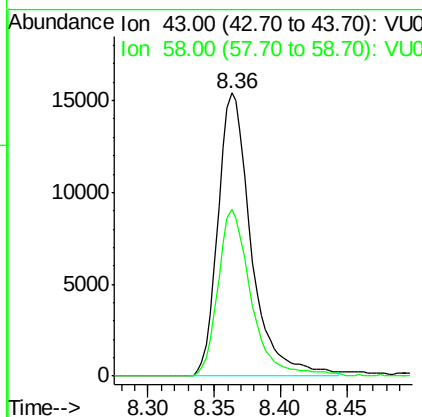
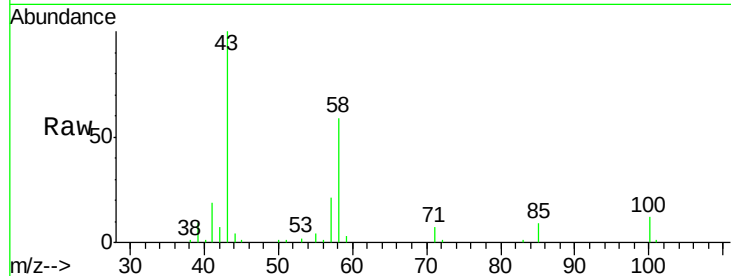
#59
2-Hexanone
Concen: 11.654 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 26990
Ion Ratio Lower Upper
43 100
58 58.3 25.9 77.6

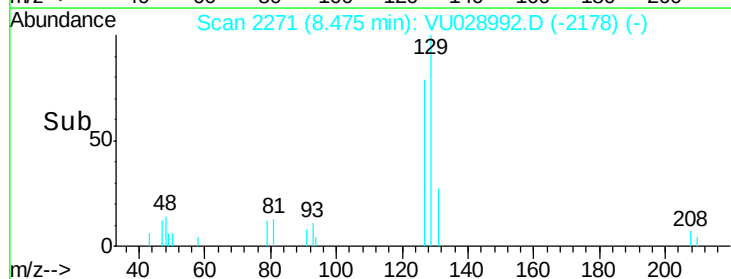
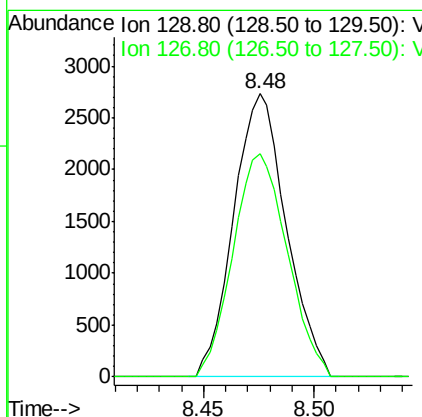
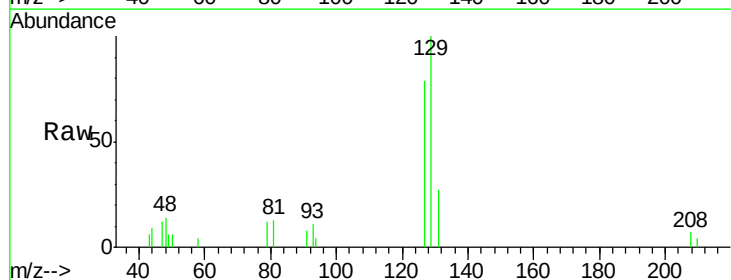
Manual Integrations
APPROVED

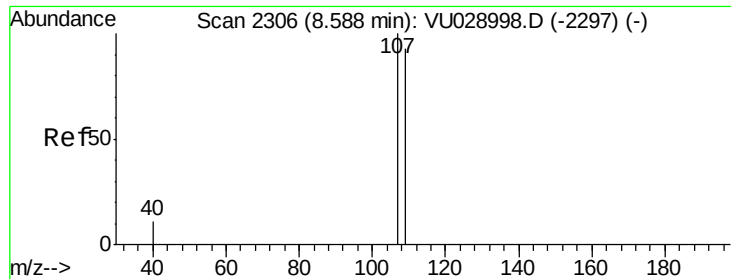
MMDadoda
1/4/2019 9:50:48 AM



#60
Dibromochloromethane
Concen: 2.979 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion: 129 Resp: 4528
Ion Ratio Lower Upper
129 100
127 81.0 39.1 117.3





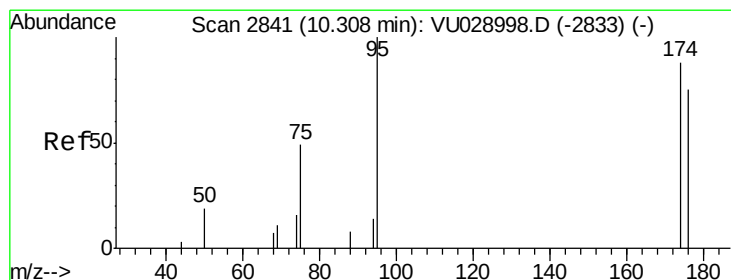
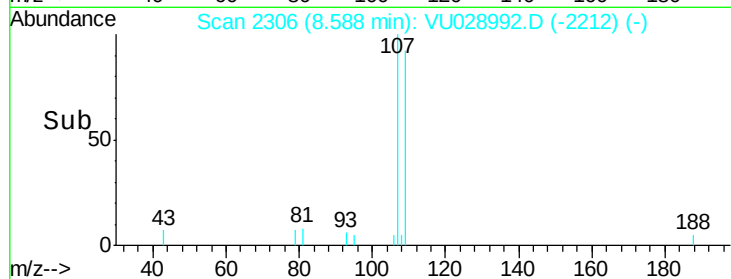
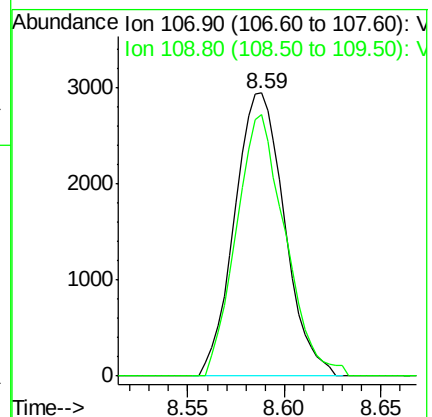
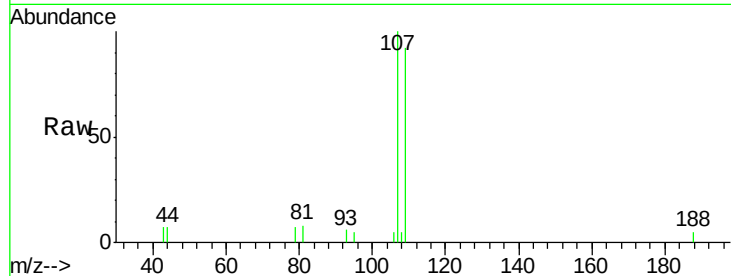
#61
 1,2-Dibromoethane
 Concen: 3.241 ug/l
 RT: 8.59 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:107 Resp: 5277
 Ion Ratio Lower Upper
 107 100
 109 90.8 74.5 111.7

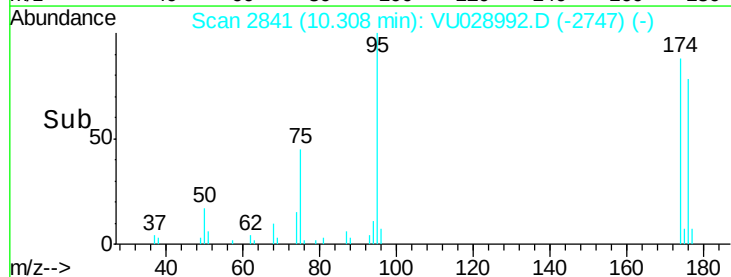
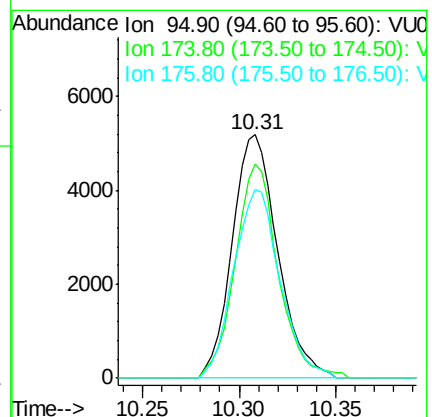
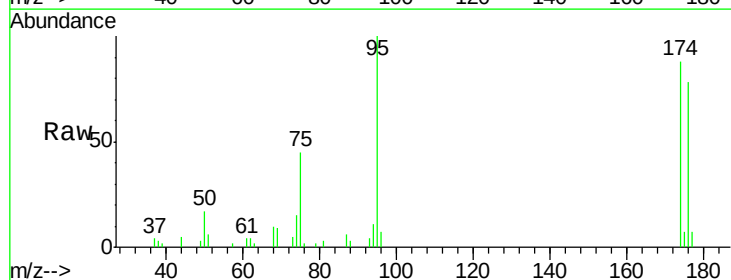
Manual Integrations
 APPROVED

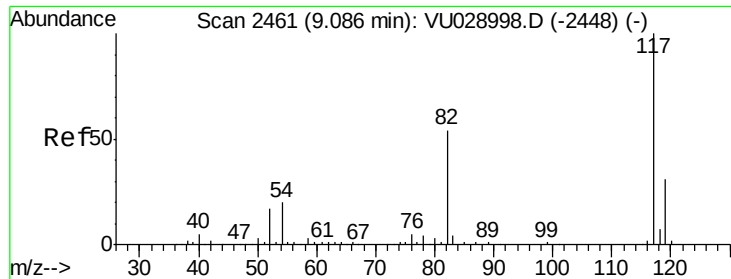
MMDadoda
 1/4/2019 9:50:48 AM



#62
 4-Bromofluorobenzene
 Concen: 4.383 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Tgt Ion: 95 Resp: 8445
 Ion Ratio Lower Upper
 95 100
 174 83.5 0.0 150.4
 176 79.3 0.0 145.2





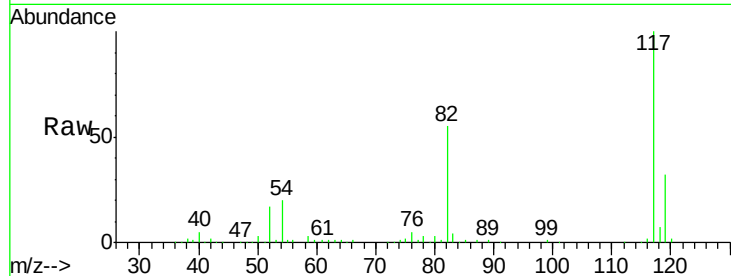
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.1	48.9	73.3
119	32.4	26.2	39.4

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM

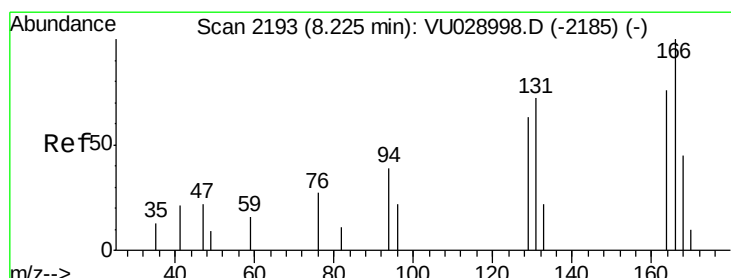
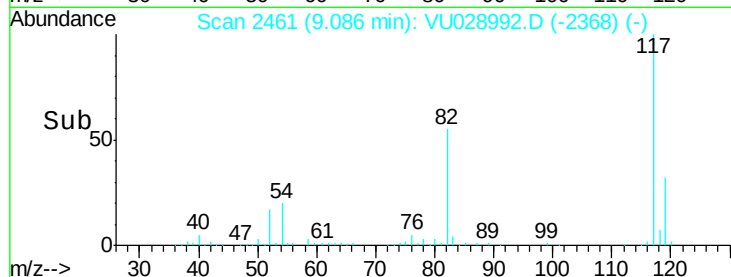
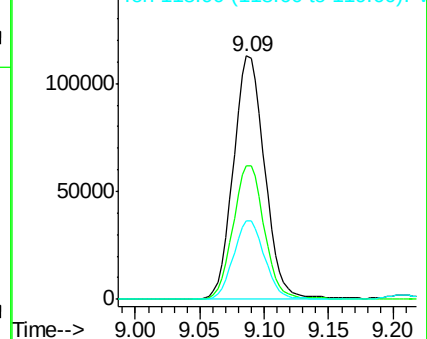


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 3.340 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.3	101.9	152.9
129	96.3	74.9	112.3
131	97.4	75.4	113.0

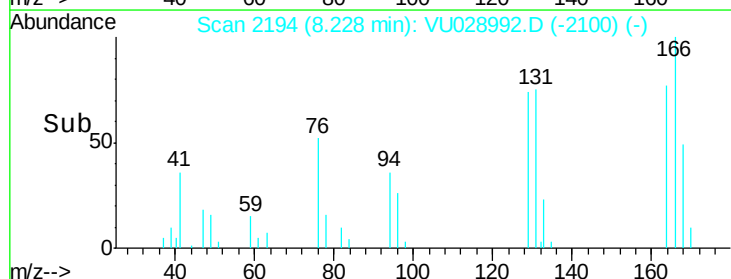
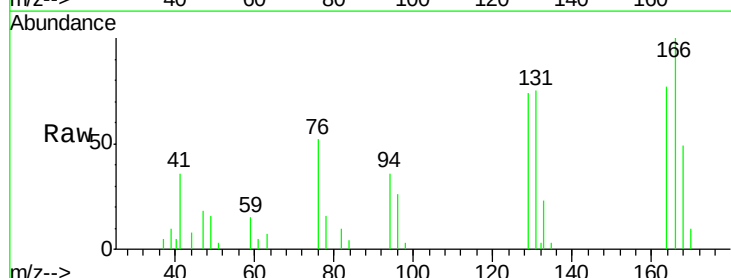
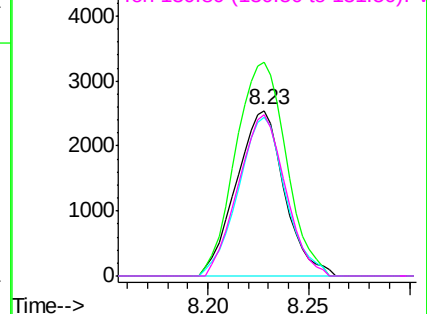
Abundance

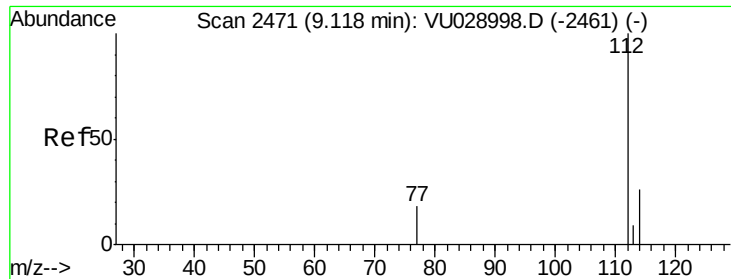
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





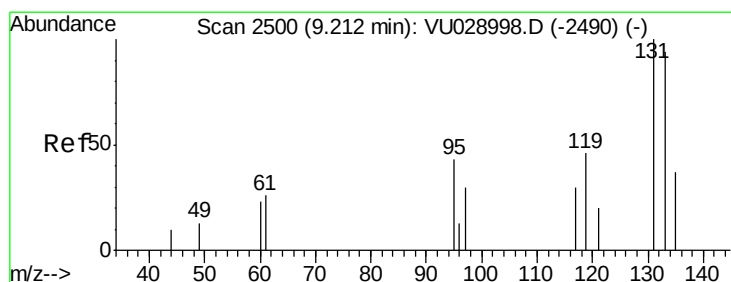
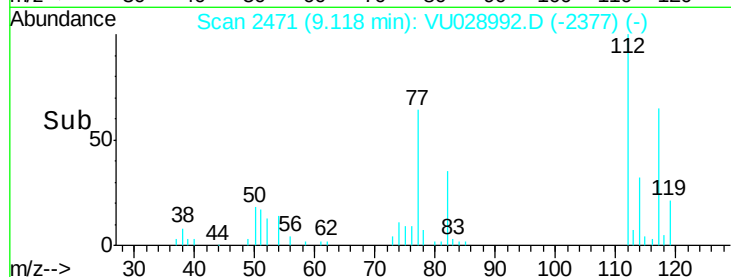
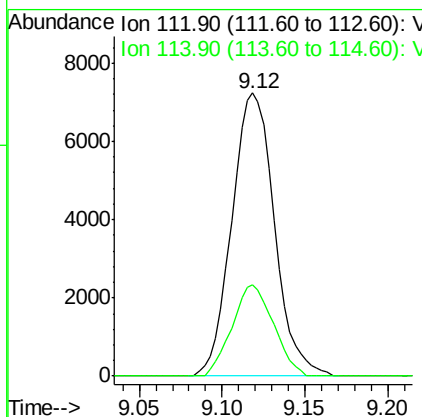
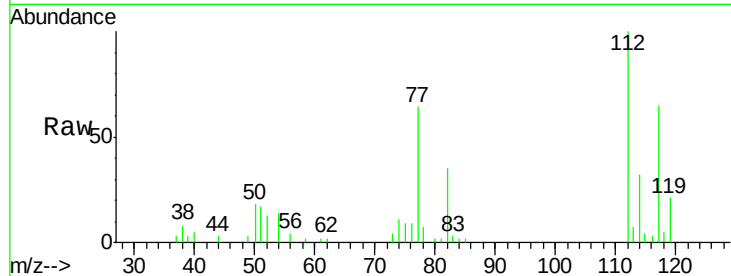
#65
Chlorobenzene
Concen: 3.181 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 12921
Ion Ratio Lower Upper
112 100
114 32.4 25.3 37.9

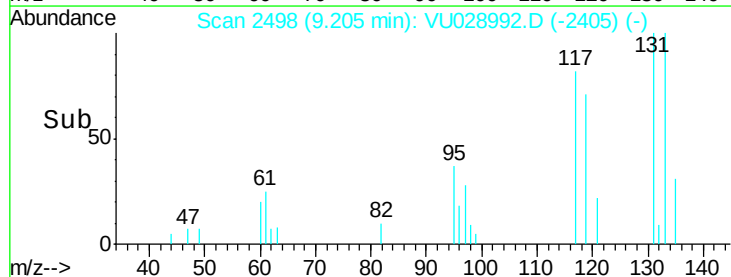
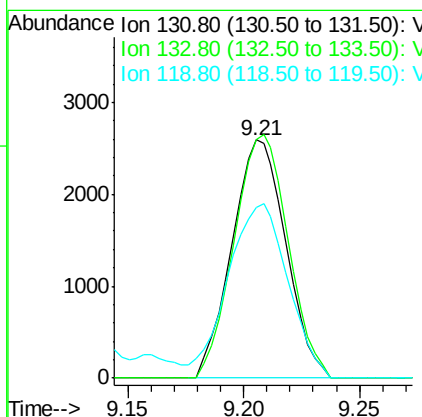
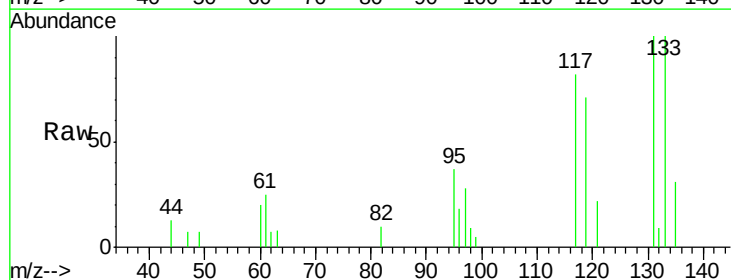
Manual Integrations
APPROVED

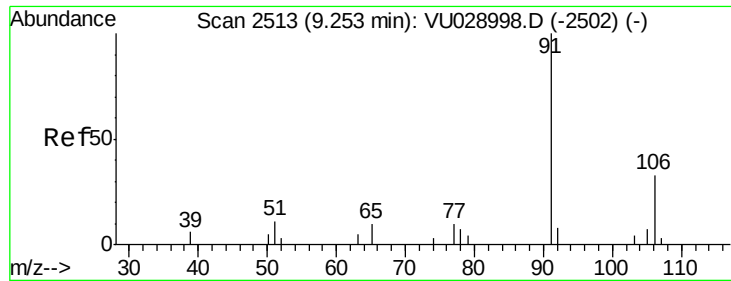
MMDadoda
1/4/2019 9:50:48 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 3.222 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion:131 Resp: 4180
Ion Ratio Lower Upper
131 100
133 102.6 48.0 144.0
119 82.2 34.6 103.9





#67

Ethyl Benzene

Concen: 2.835 ug/l

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 21169

Ion Ratio Lower Upper

91 100

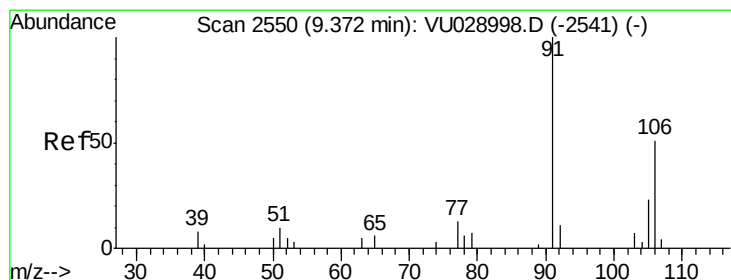
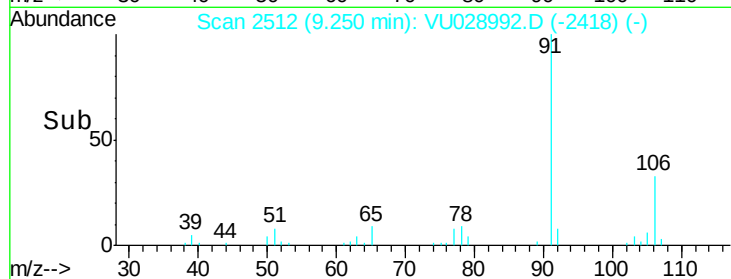
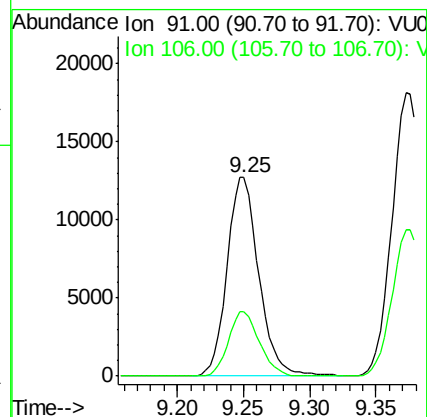
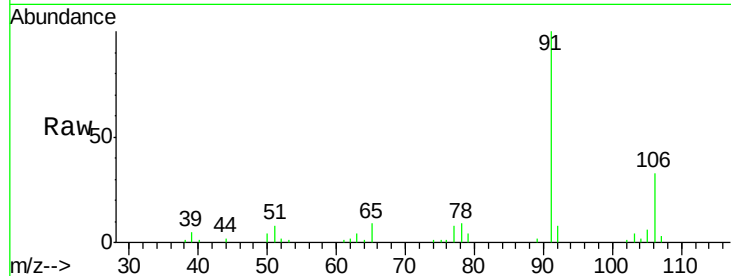
106 32.5 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:50:48 AM



#68

m/p-Xylenes

Concen: 5.944 ug/l

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028992.D

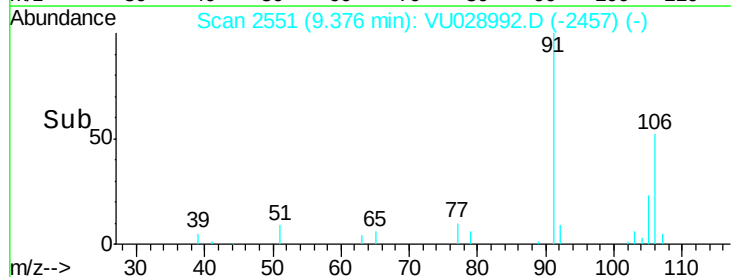
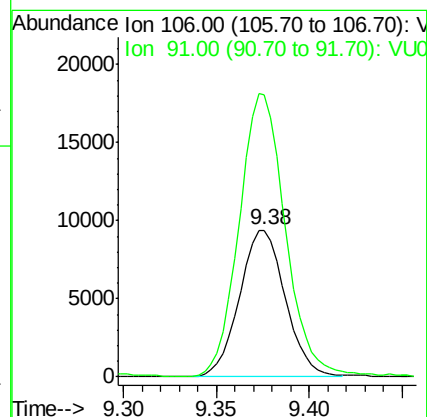
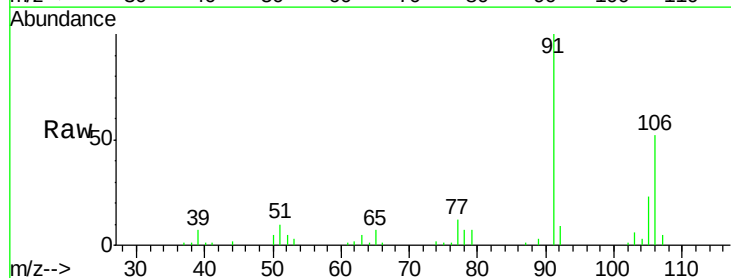
Acq: 03 Jan 2019 13:05

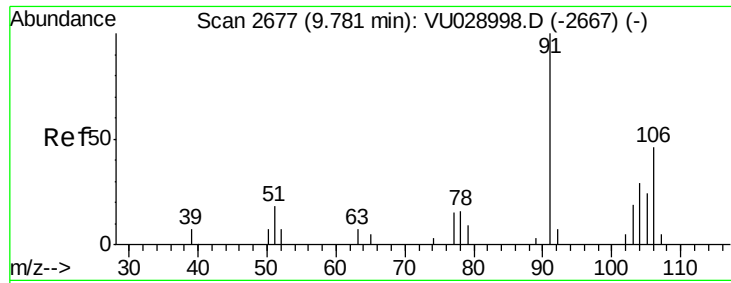
Tgt Ion: 106 Resp: 16152

Ion Ratio Lower Upper

106 100

91 196.5 167.4 251.0





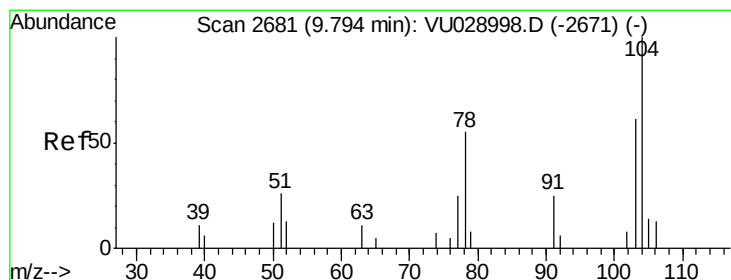
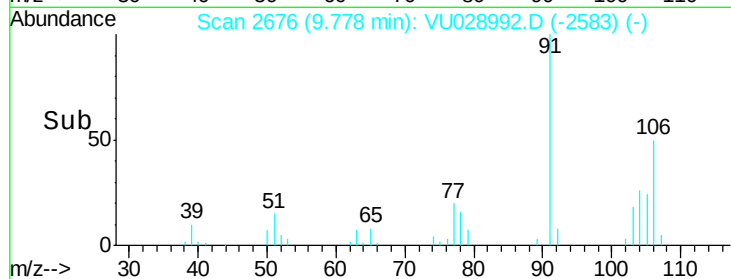
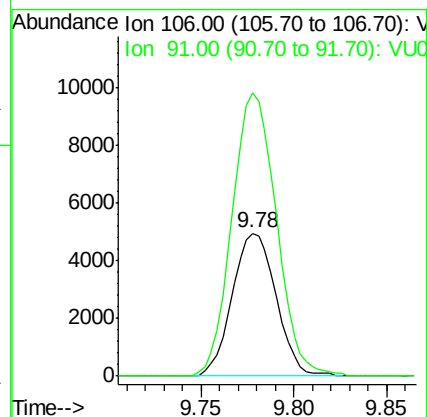
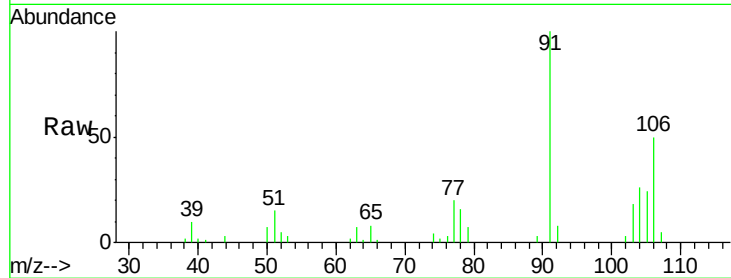
#69
o-Xylene
Concen: 3.074 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 8118
Ion Ratio Lower Upper
106 100
91 200.7 111.3 334.0

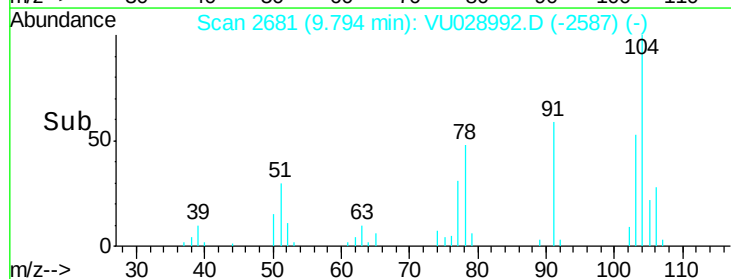
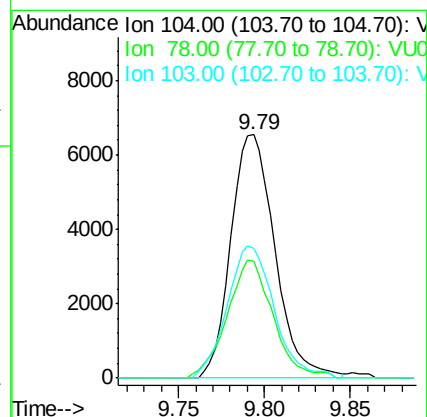
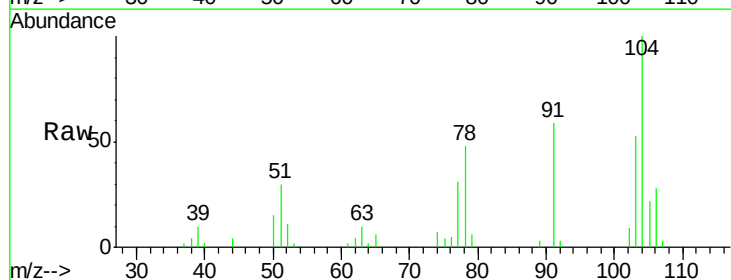
Manual Integrations
APPROVED

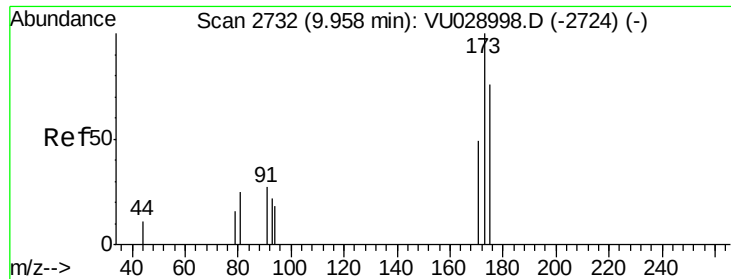
MMDadoda
1/4/2019 9:50:48 AM



#70
Styrene
Concen: 2.674 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion:104 Resp: 11685
Ion Ratio Lower Upper
104 100
78 50.3 43.0 64.6
103 58.0 44.2 66.4





#71

Bromoform

Concen: 3.423 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

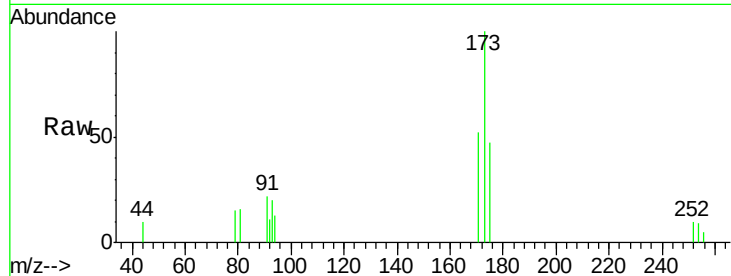
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	45.9	23.9	71.8
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM

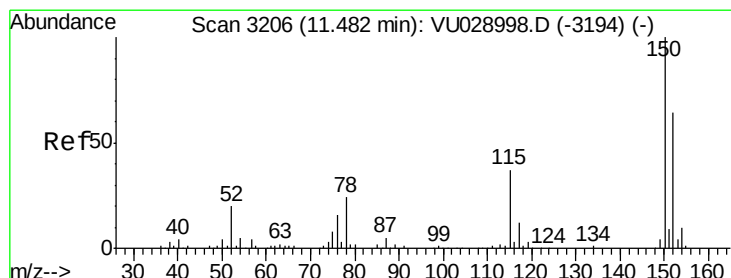
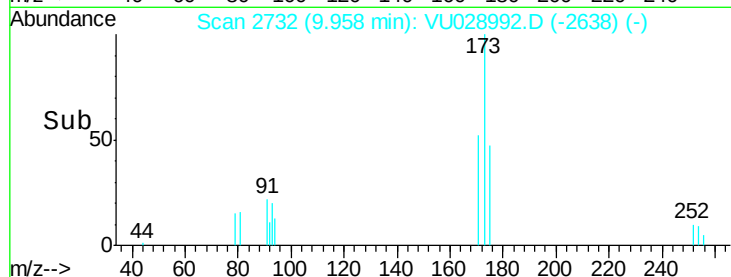
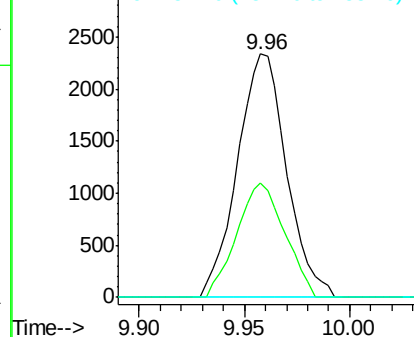


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

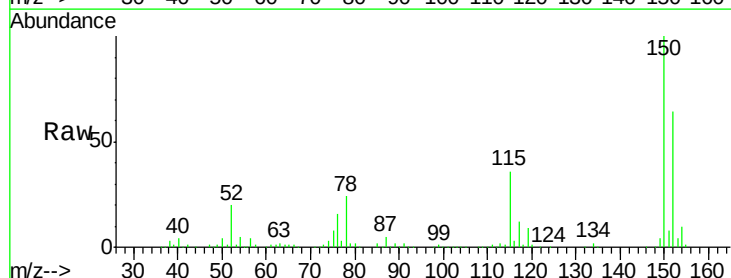
RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.4	42.7	128.1
150	160.9	0.0	346.0

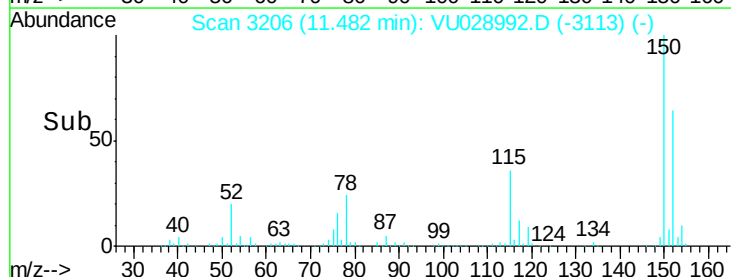
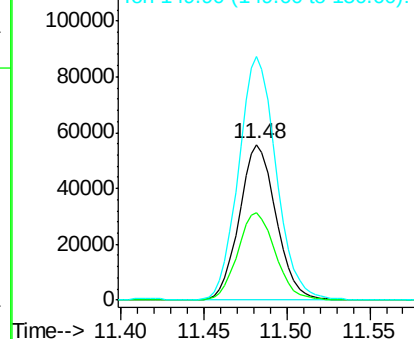


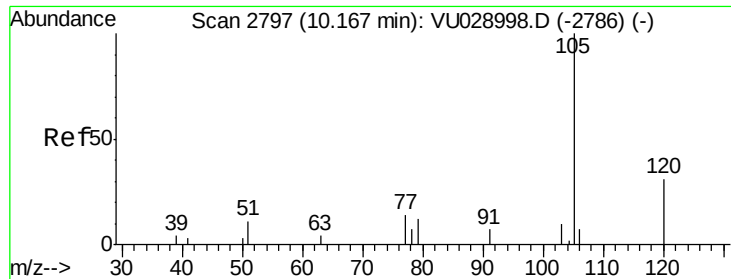
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 3.022 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 19983

Ion Ratio Lower Upper

105 100

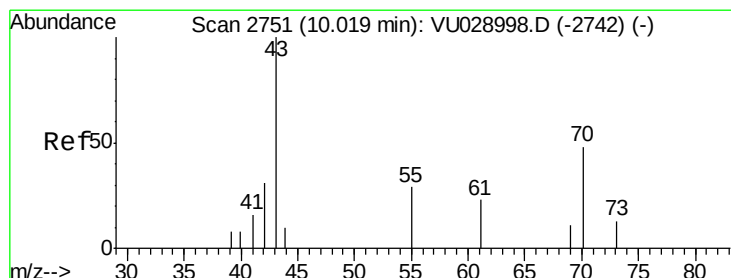
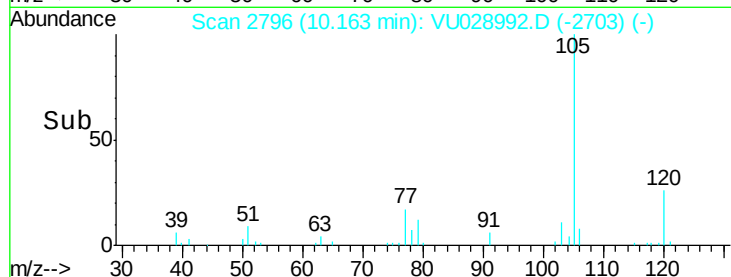
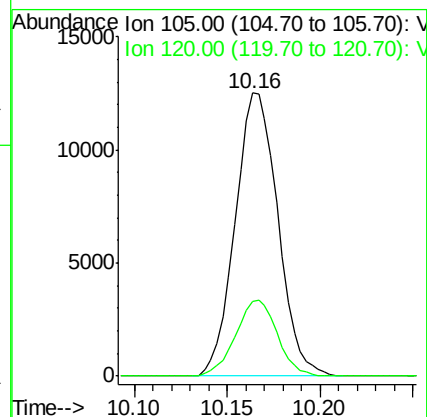
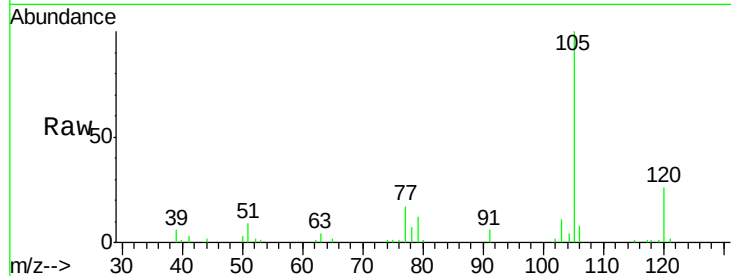
120 26.1 12.9 38.6

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:50:48 AM



#74

N-ethyl acetate

Concen: 2.177 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Tgt Ion: 43 Resp: 8304

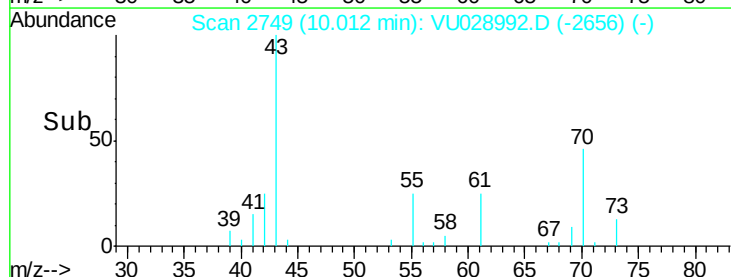
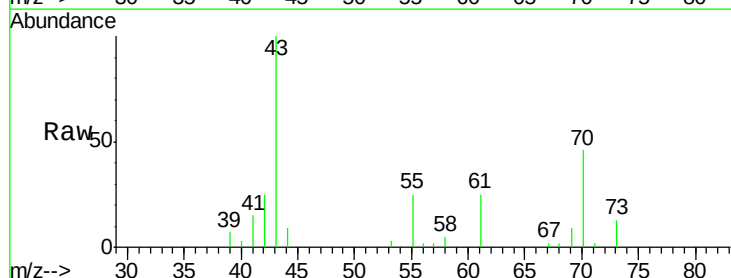
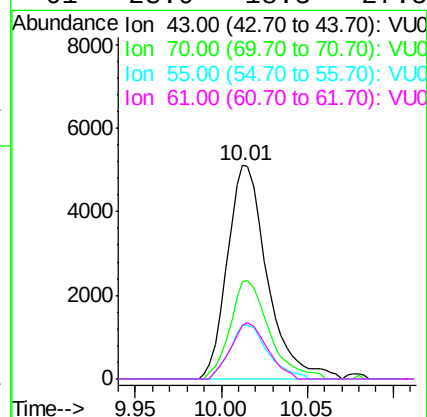
Ion Ratio Lower Upper

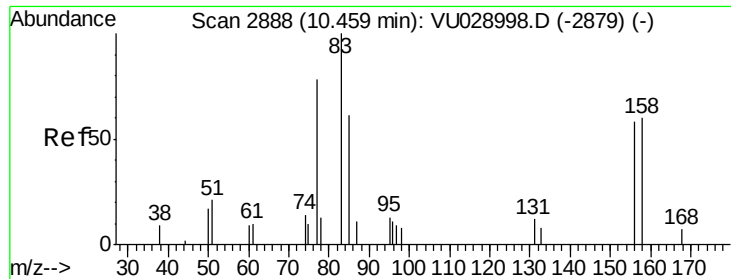
43 100

70 45.0 29.3 43.9#

55 24.1 18.0 27.0

61 23.9 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 3.287 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 83 Resp: 8349

Ion Ratio Lower Upper

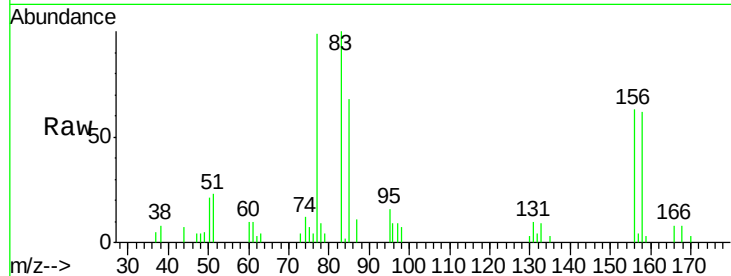
83 100

131 8.7 4.2 12.4

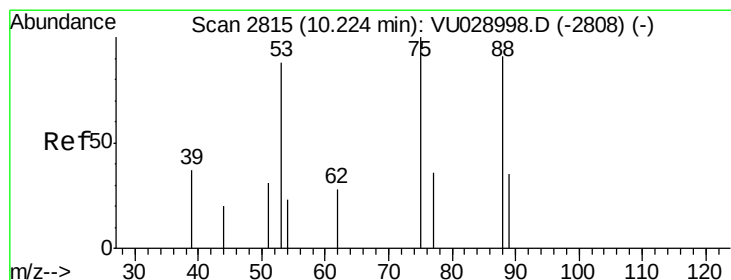
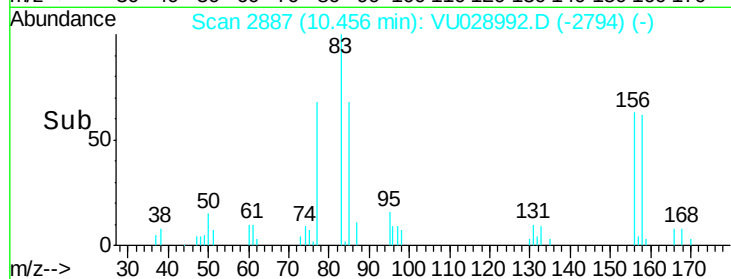
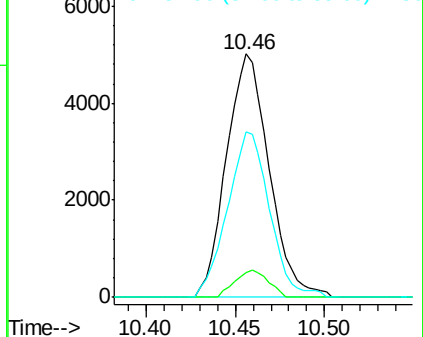
85 66.7 31.8 95.4

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM



Abundance Ion 82.90 (82.60 to 83.60): VU0
Ion 130.80 (130.50 to 131.50): VU0
Ion 84.90 (84.60 to 85.60): VU0



#76

1,2,3-Trichloropropane

Concen: 3.501 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU028992.D

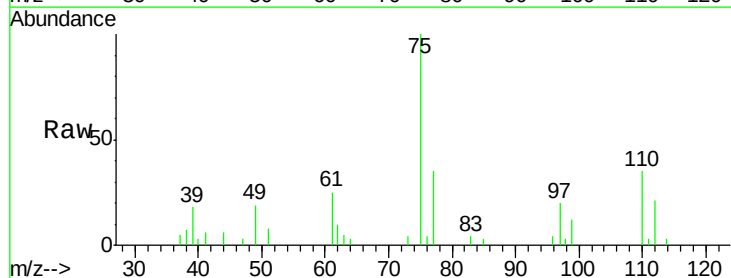
Acq: 03 Jan 2019 13:05

Tgt Ion: 75 Resp: 7702

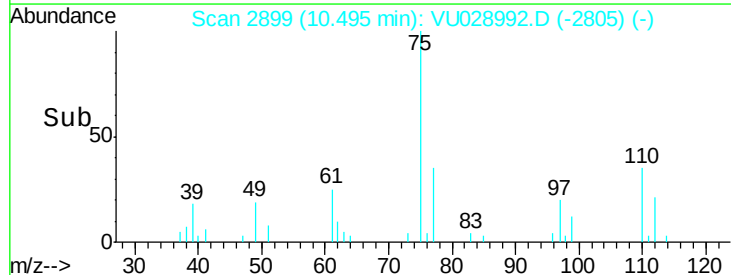
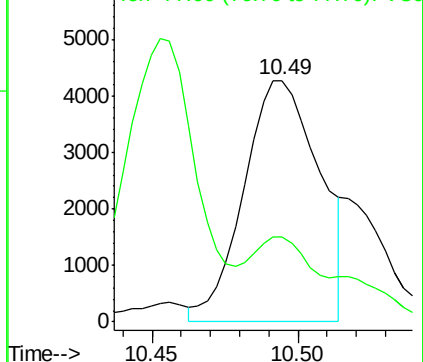
Ion Ratio Lower Upper

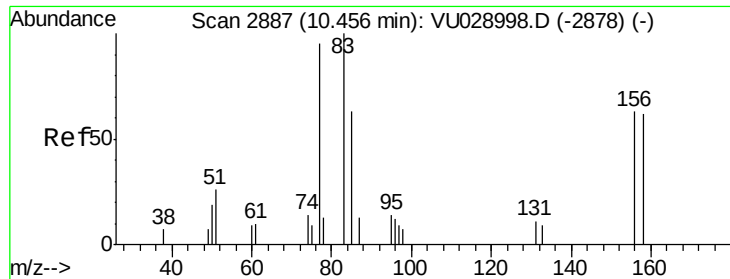
75 100

77 42.5 20.8 62.4



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0





#77

Bromobenzene

Concen: 3.560 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

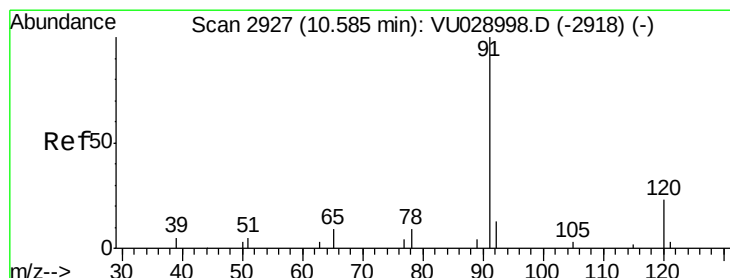
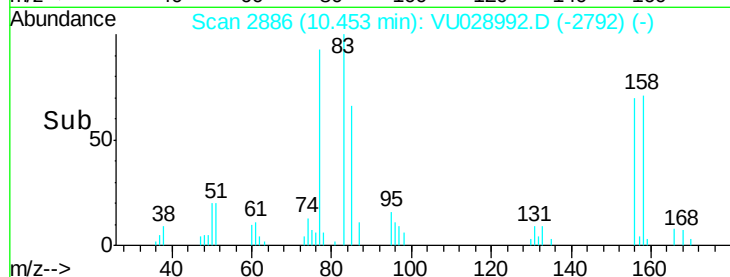
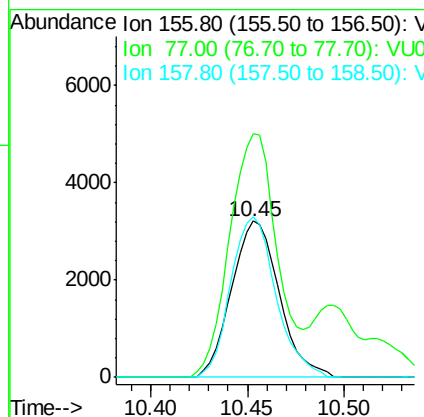
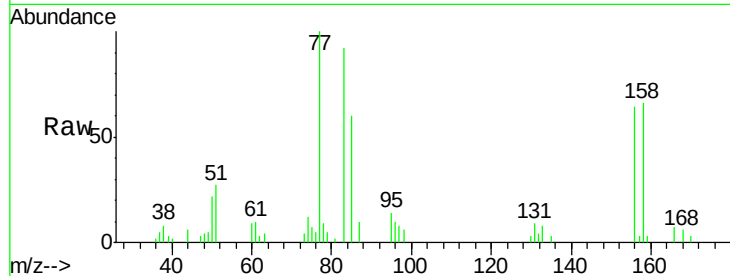
ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 5505
 Ion Ratio Lower Upper
 156 100
 77 155.4 92.4 277.2
 158 97.5 48.4 145.3

Manual Integrations
 APPROVED

MMDadoda
 1/4/2019 9:50:48 AM



#78

n-propylbenzene

Concen: 2.772 ug/l

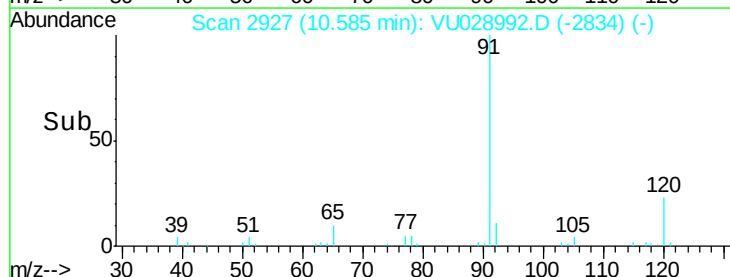
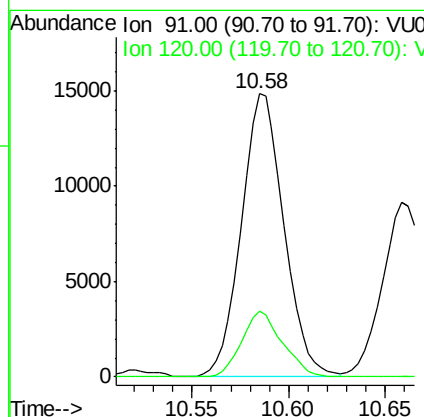
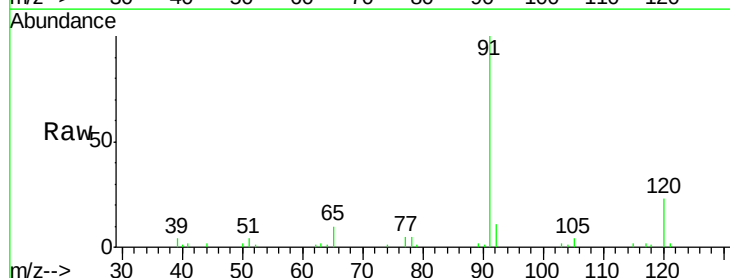
RT: 10.58 min Scan# 2927

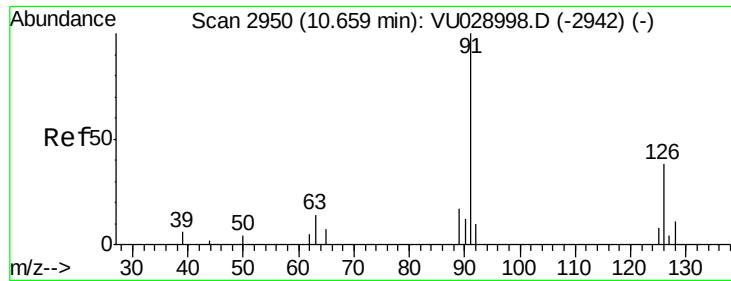
Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Tgt Ion: 91 Resp: 22771
 Ion Ratio Lower Upper
 91 100
 120 22.1 10.6 31.8





#79

2-Chlorotoluene

Concen: 3.074 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 14547

Ion Ratio Lower Upper

91 100

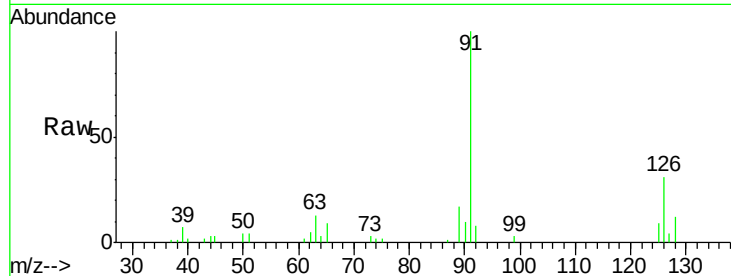
126 31.8 15.6 46.8

Manual Integrations

APPROVED

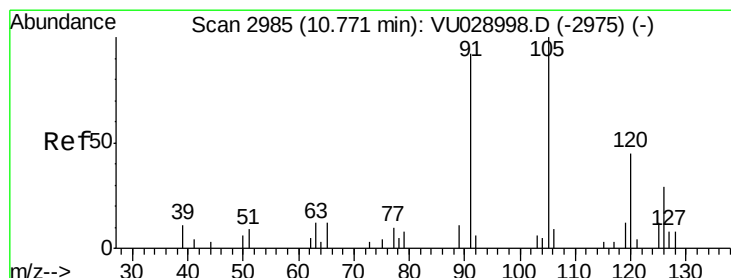
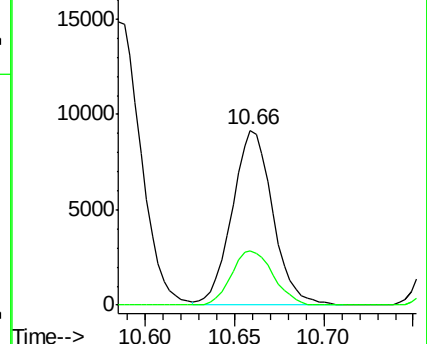
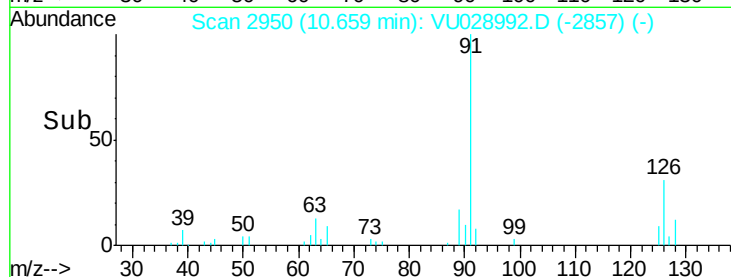
MMDadoda

1/4/2019 9:50:48 AM



Abundance Ion 91.00 (90.70 to 91.70): VU028998.D (-2942) (-)

Ion 125.90 (125.60 to 126.60): VU028998.D (-2942) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.846 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028992.D

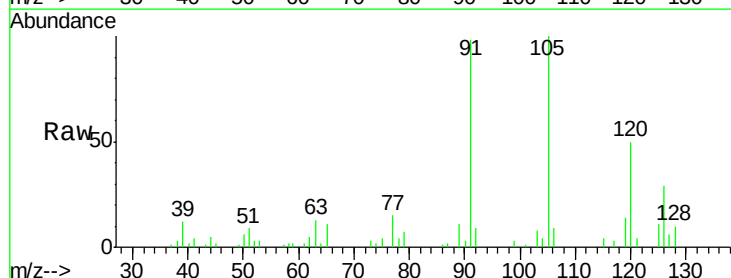
Acq: 03 Jan 2019 13:05

Tgt Ion: 105 Resp: 15577

Ion Ratio Lower Upper

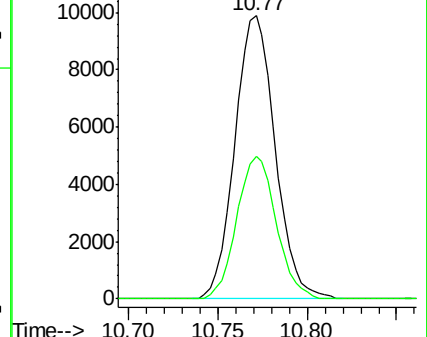
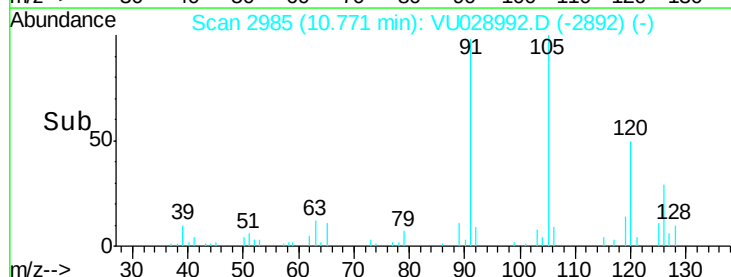
105 100

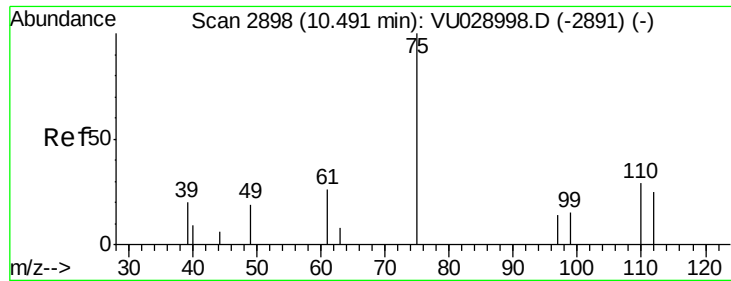
120 49.2 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VU028998.D (-2975) (-)

Ion 120.00 (119.70 to 120.70): VU028998.D (-2975) (-)





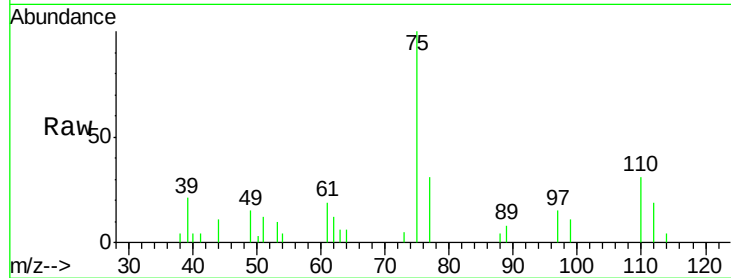
#81
trans-1,4-Dichloro-2-butene
Concen: 3.682 ug/l m
RT: 10.50 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

Manual Integrations
APPROVED

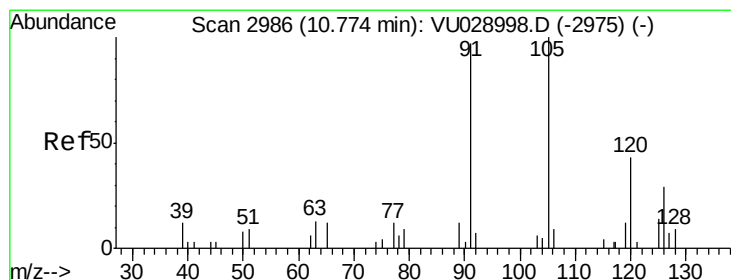
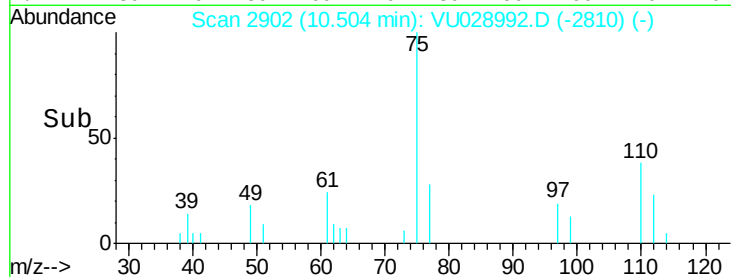
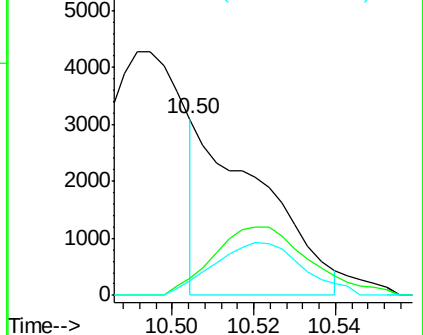
MMDadoda
1/4/2019 9:50:48 AM



Abundance Ion 74.90 (74.60 to 75.60): VU028992.D (-2891) (-)

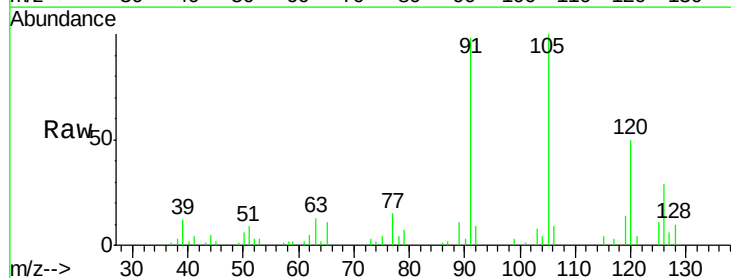
Ion 53.00 (52.70 to 53.70): VU028992.D (-2891) (-)

Ion 88.90 (88.60 to 89.60): VU028992.D (-2891) (-)



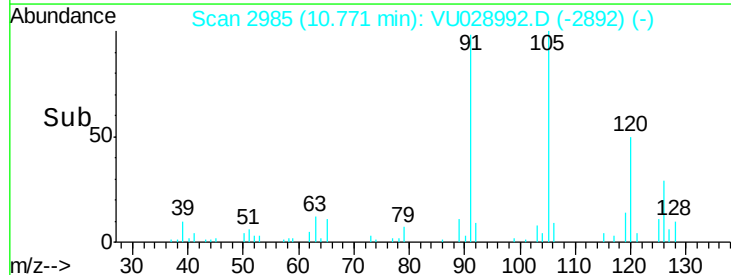
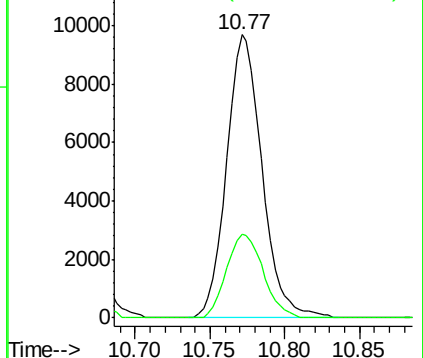
#82
4-Chlorotoluene
Concen: 2.851 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

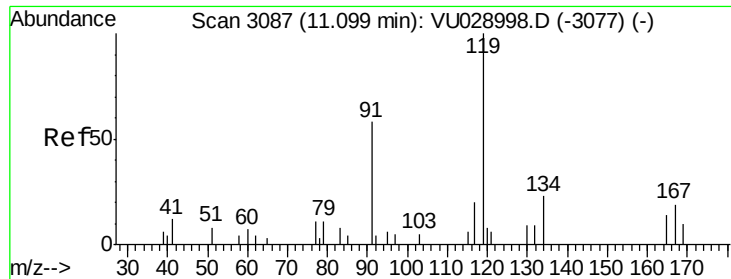
Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.4	14.1	42.3



Abundance Ion 91.00 (90.70 to 91.70): VU028992.D (-2892) (-)

Ion 125.90 (125.60 to 126.60): VU028992.D (-2892) (-)





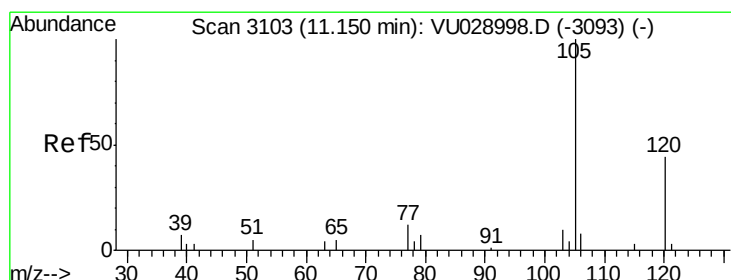
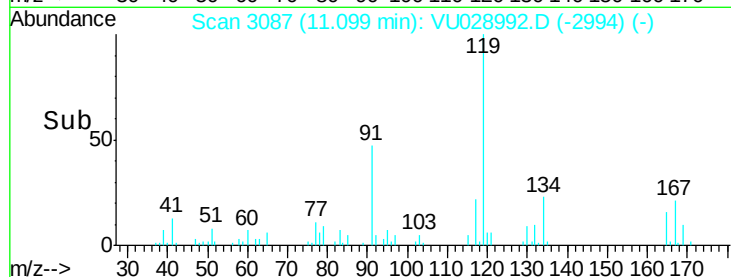
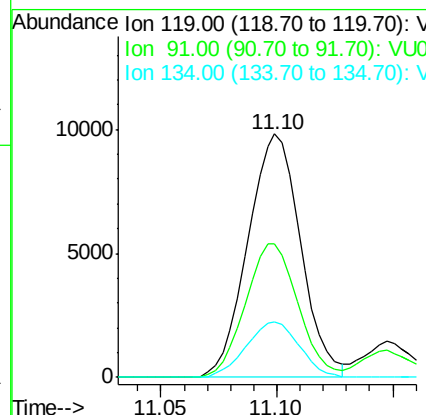
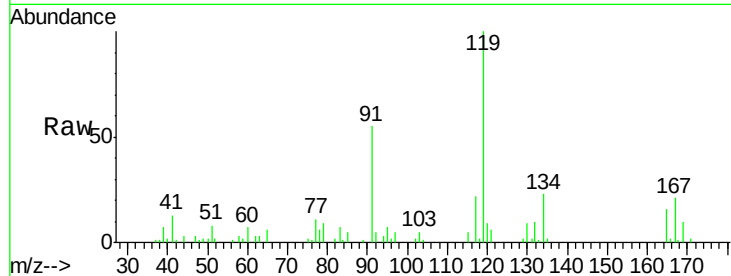
#83
 tert-Butylbenzene
 Concen: 2.938 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
119	100	15500		
91	54.9	30.3	91.0	
134	22.9	11.2	33.5	

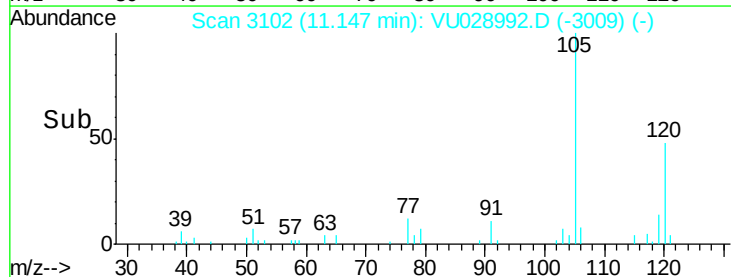
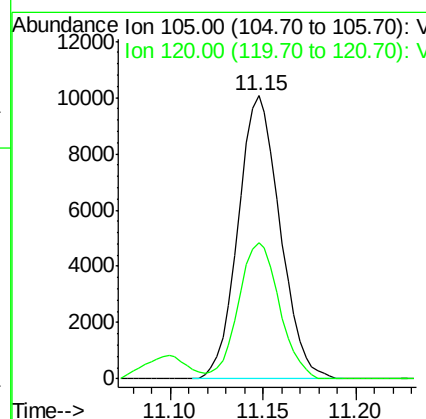
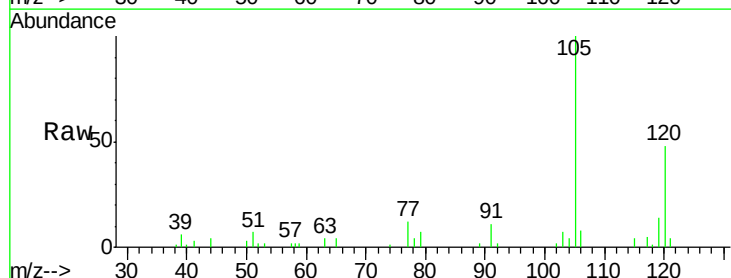
Manual Integrations
 APPROVED

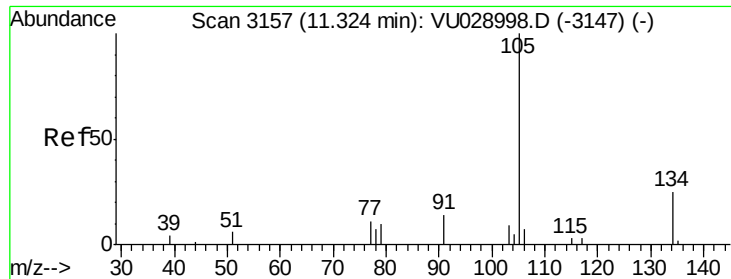
MMDadoda
 1/4/2019 9:50:48 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 2.809 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	15842		
120	47.0	21.8	65.4	





#85

sec-Butylbenzene

Concen: 2.768 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 18759

Ion Ratio Lower Upper

105 100

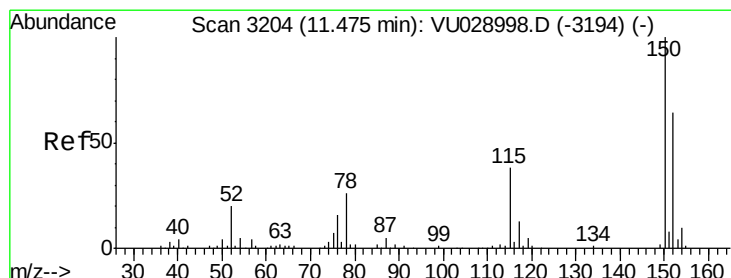
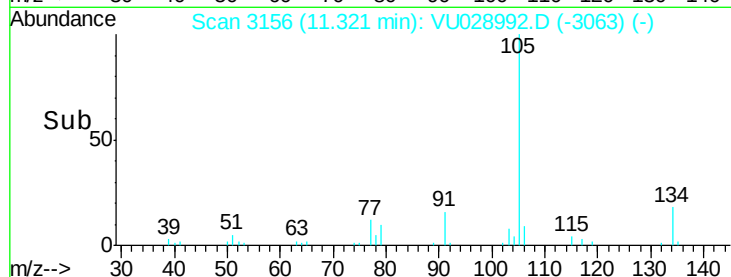
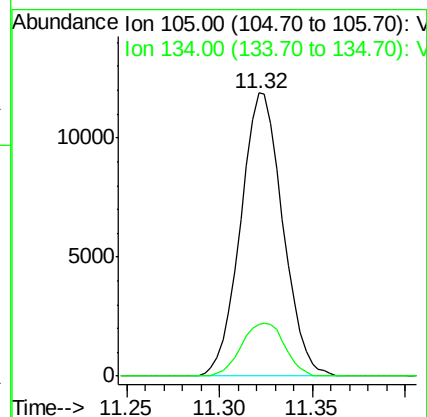
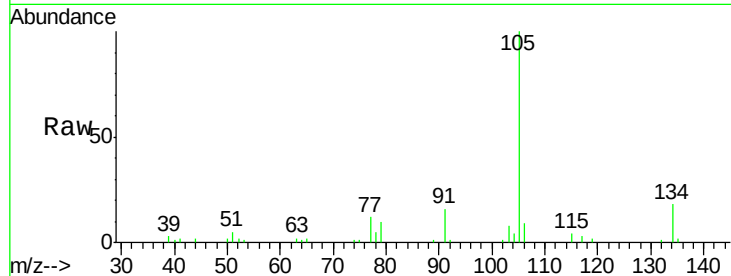
134 19.1 9.2 27.6

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:50:48 AM



#86

p-Isopropyltoluene

Concen: 2.754 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

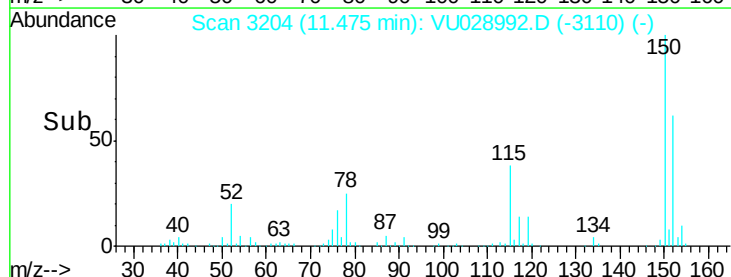
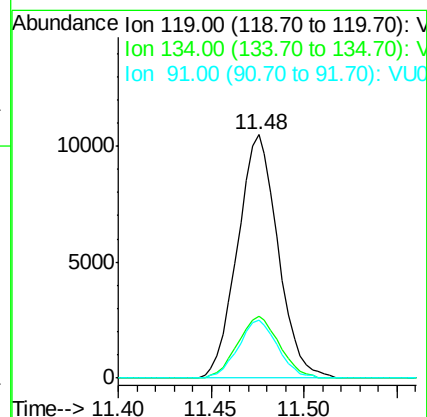
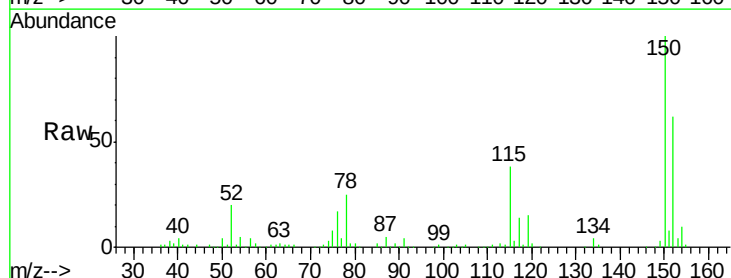
Tgt Ion:119 Resp: 15853

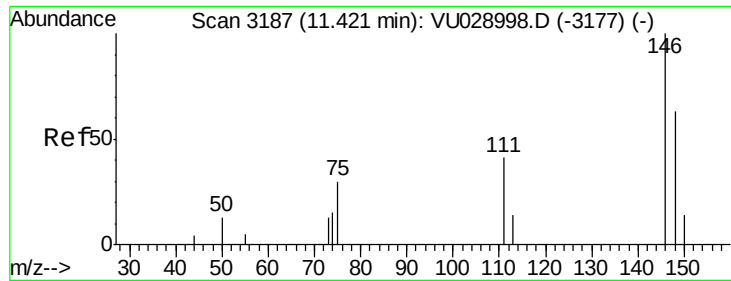
Ion Ratio Lower Upper

119 100

134 26.1 12.7 38.1

91 23.2 12.6 37.6





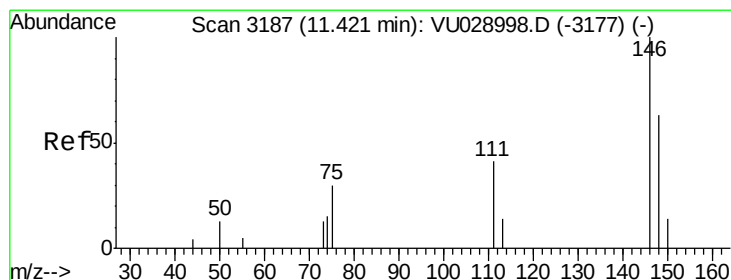
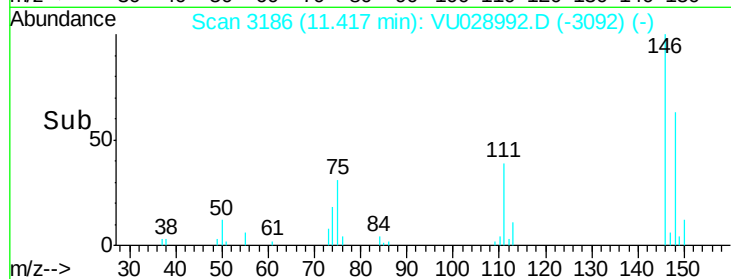
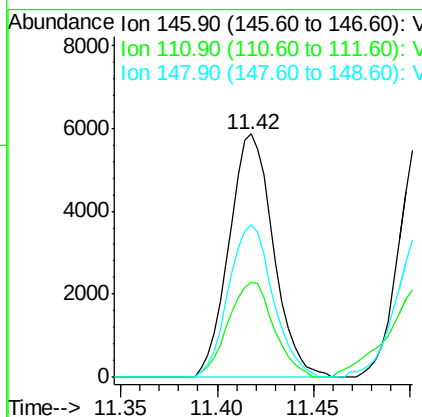
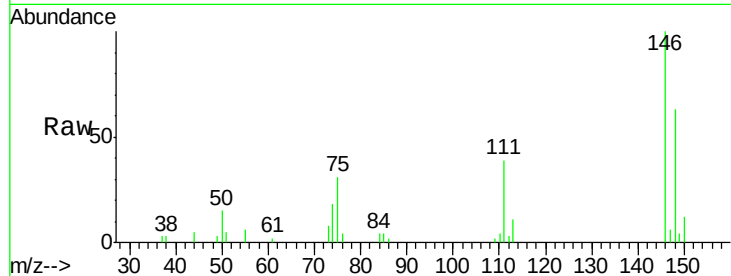
#87
 1,3-Dichlorobenzene
 Concen: 3.199 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.7	62.1
148	63.0	31.9	95.7

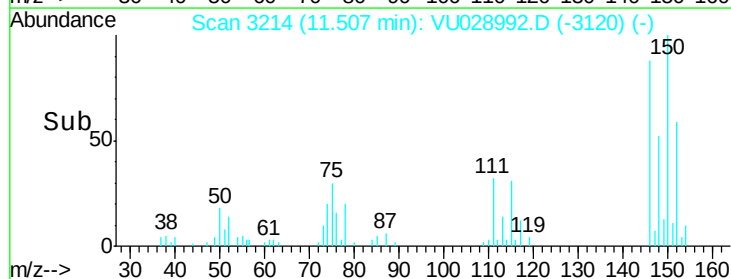
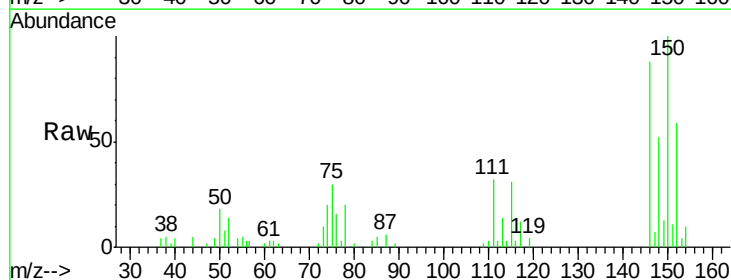
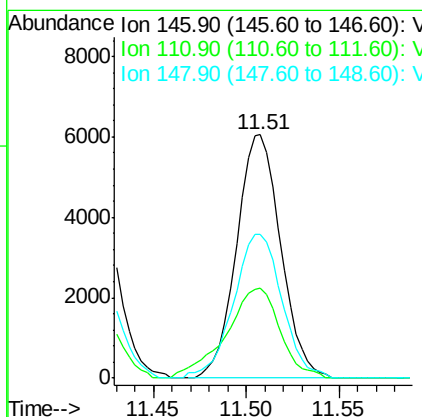
Manual Integrations
 APPROVED

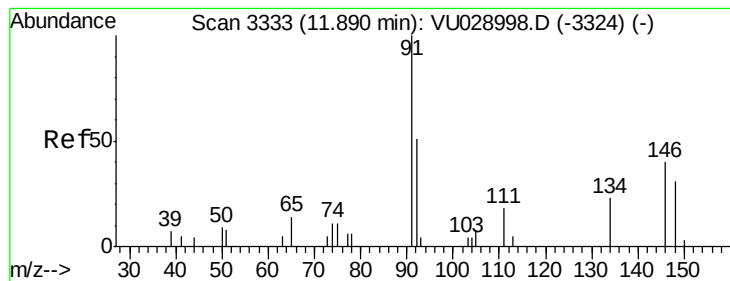
MMDadoda
 1/4/2019 9:50:48 AM



#88
 1,4-Dichlorobenzene
 Concen: 3.302 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.1	20.2	60.5
148	65.0	31.6	95.0





#89

n-Butylbenzene

Concen: 2.252 ug/l

RT: 11.89 min Scan# 3333

Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Instrument :

MSVOA_U

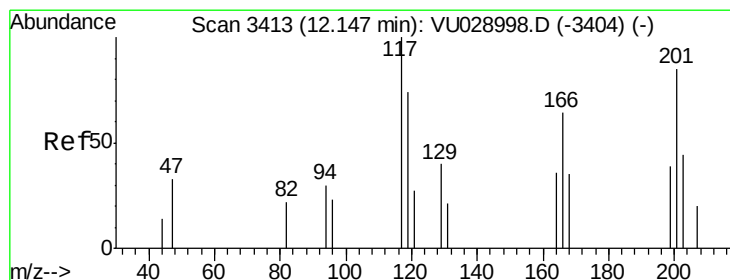
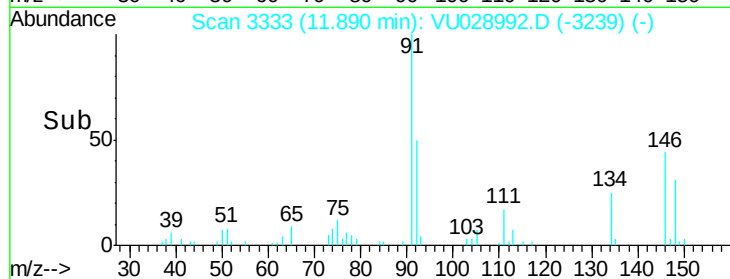
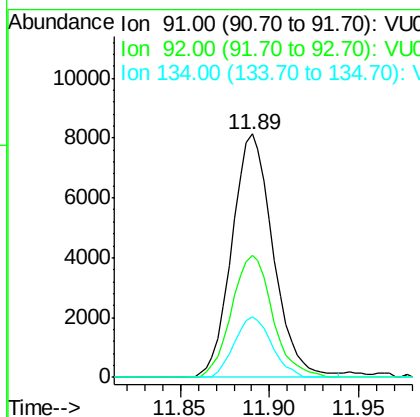
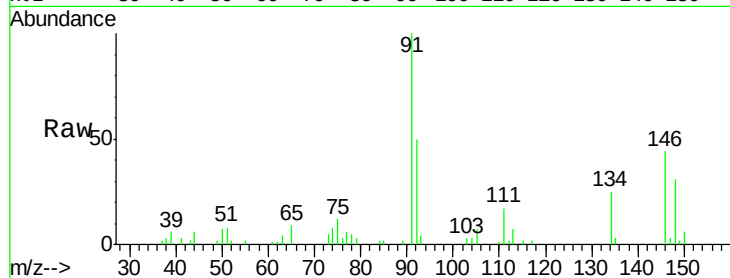
ClientSampleId :

VSTDIC005

Tot Ion:	91	Resp:	13119
Ion	Ratio	Lower	Upper
91	100		
92	49.7	26.3	78.9
134	22.4	11.3	33.8

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM



#90

Hexachloroethane

Concen: 3.332 ug/l

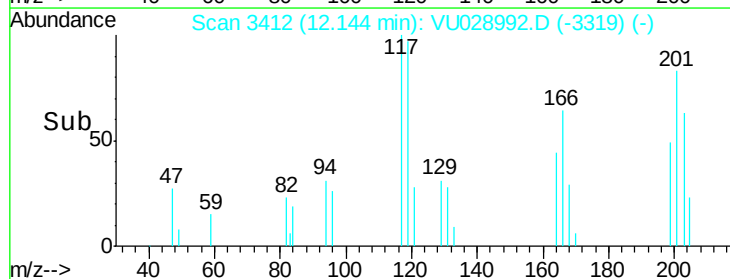
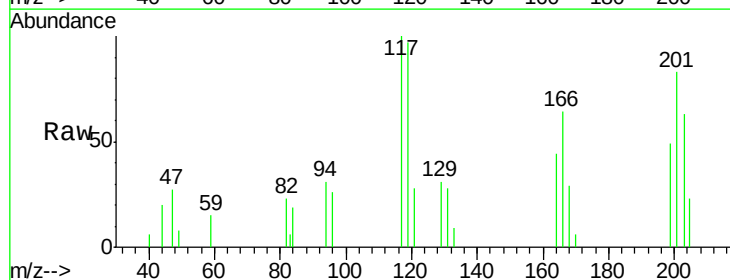
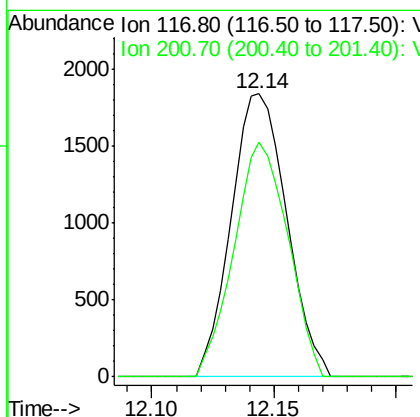
RT: 12.14 min Scan# 3412

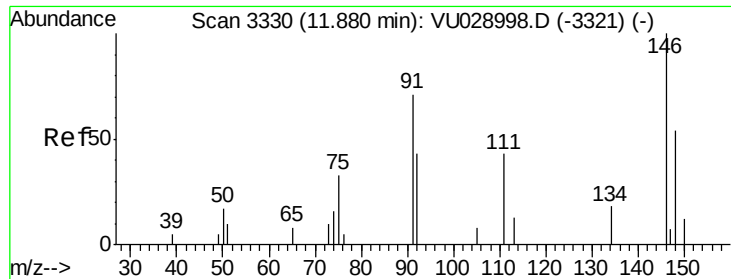
Delta R.T. 0.00 min

Lab File: VU028992.D

Acq: 03 Jan 2019 13:05

Tgt Ion:	117	Resp:	2899
Ion	Ratio	Lower	Upper
117	100		
201	80.7	38.1	114.5





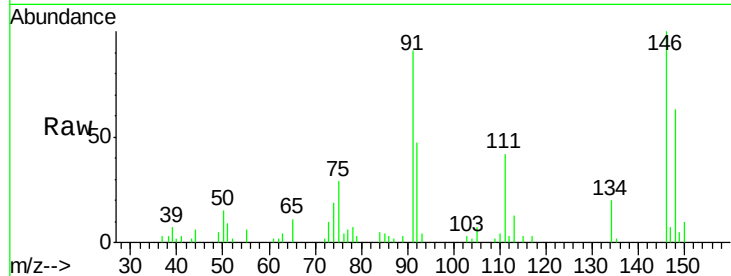
#91
 1,2-Dichlorobenzene
 Concen: 3.280 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

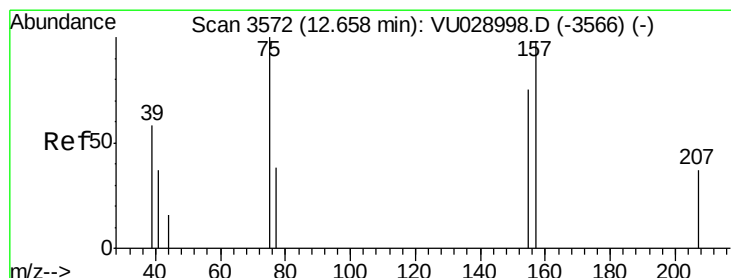
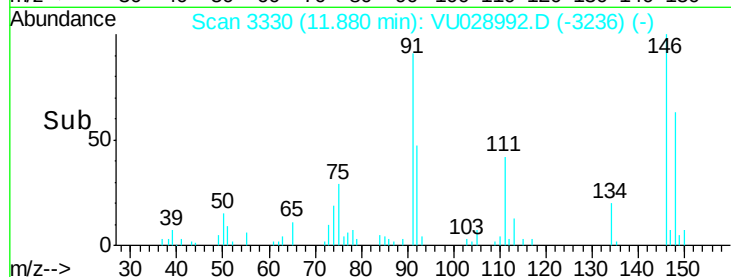
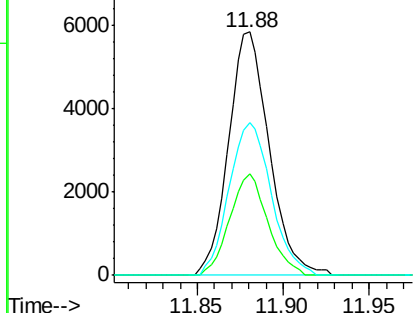
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	21.1	63.4
148	65.0	31.4	94.2

Manual Integrations
 APPROVED

MMDadoda
 1/4/2019 9:50:48 AM

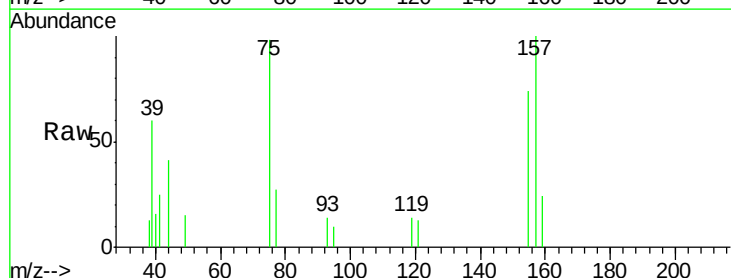


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

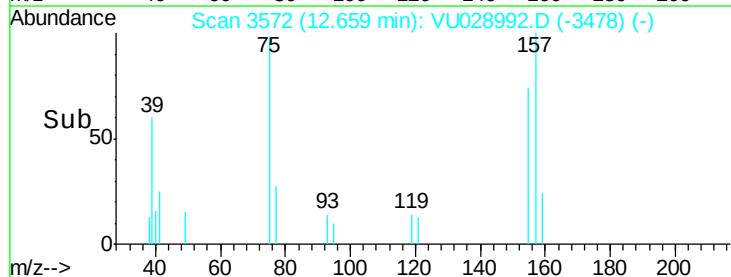
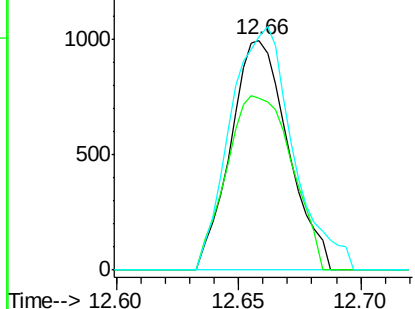


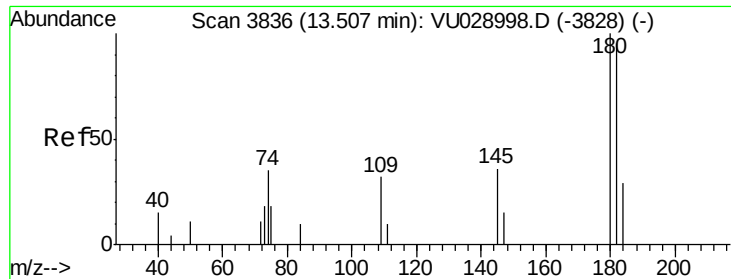
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.944 ug/l
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.5	38.1	114.5
157	116.2	48.7	146.1



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





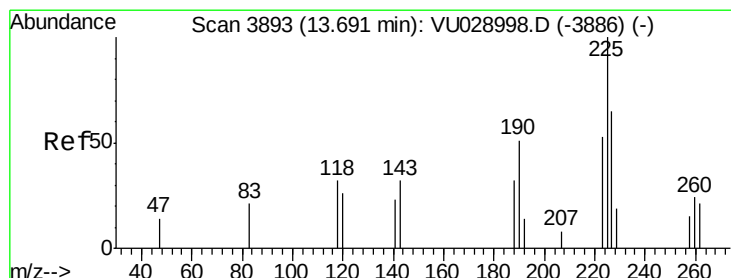
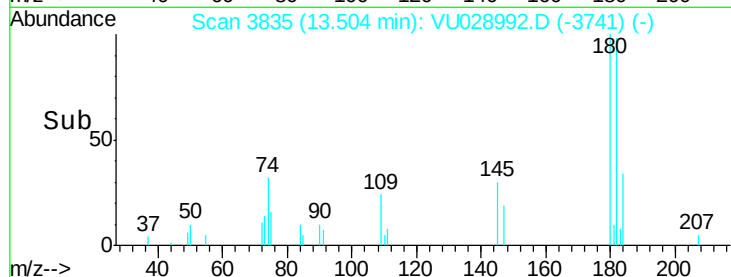
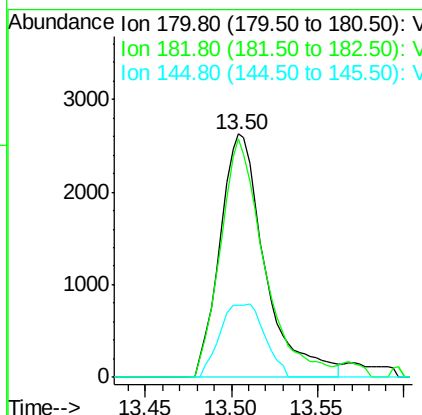
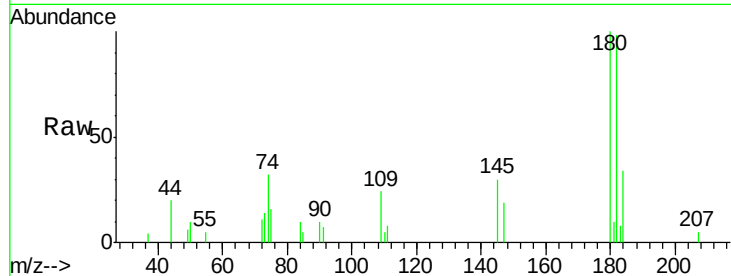
#93
 1,2,4-Trichlorobenzene
 Concen: 2.290 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.9	143.8
145	29.6	15.0	45.1

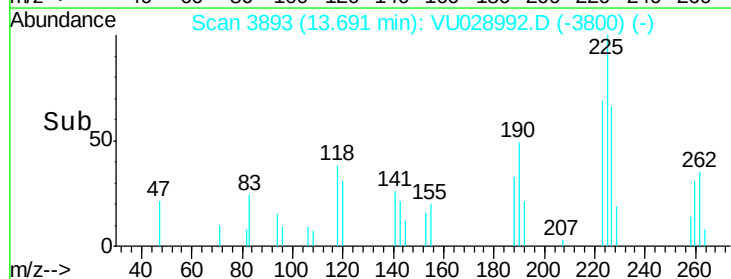
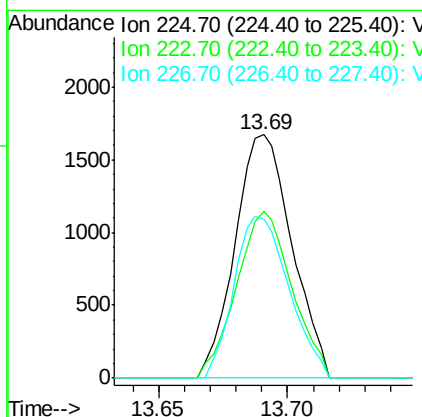
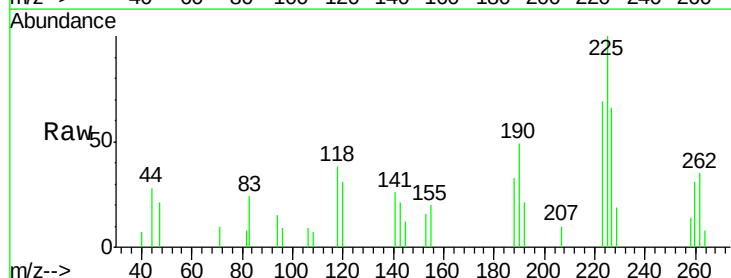
Manual Integrations
 APPROVED

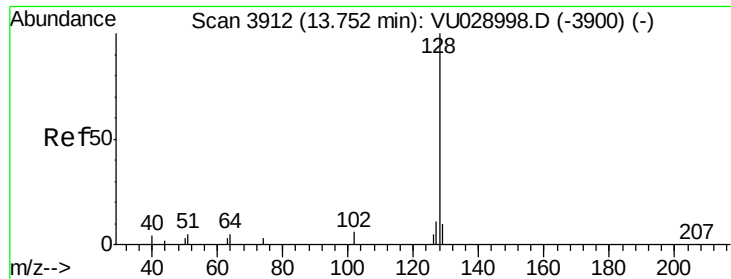
MMDadoda
 1/4/2019 9:50:48 AM



#94
 Hexachlorobutadiene
 Concen: 2.684 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU028992.D
 Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.8	30.4	91.2
227	64.2	30.7	92.1





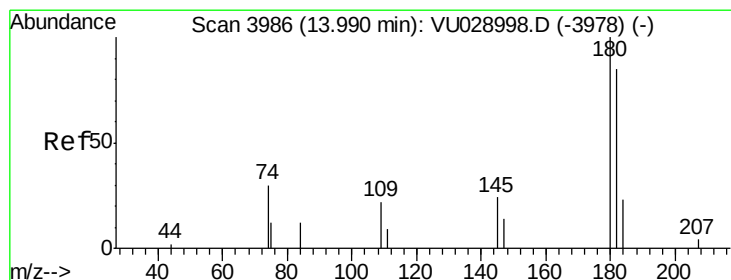
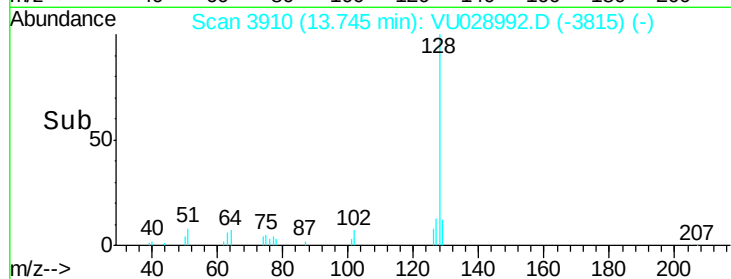
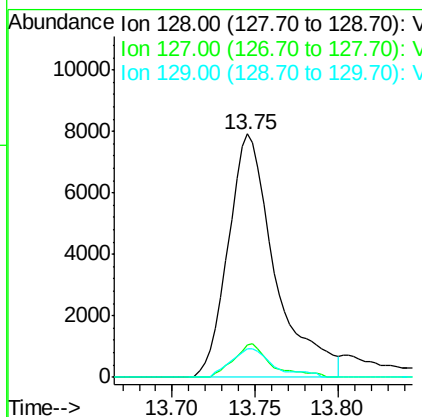
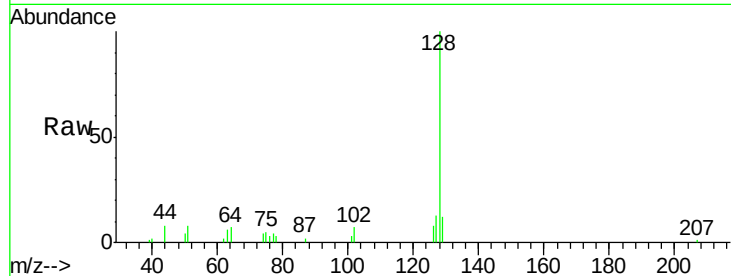
#95
Naphthalene
Concen: 2.212 ug/l
RT: 13.75 min Scan# 3910
Delta R.T. 0.01 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.2	10.4	15.6
129	10.5	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:50:48 AM



#96
1,2,3-Trichlorobenzene
Concen: 2.430 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028992.D
Acq: 03 Jan 2019 13:05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	103.7	48.2	144.6
145	32.1	15.8	47.3

