

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025681.D
 Acq On : 27 Jul 2018 20:00
 Operator : MD/SY
 Sample : VU0727MBSD01
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727MBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/31/2018 3:49:37 PM

Quant Time: Jul 28 05:20:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	168152	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	259138	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	247579	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	153838	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	134845	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
35) Dibromofluoromethane	4.89	113	108996	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	
50) Toluene-d8	7.57	98	389753	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
62) 4-Bromofluorobenzene	10.31	95	147015	48.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	54544	21.46	ug/l	98
3) Chloromethane	1.33	50	47887	19.71	ug/l	100
4) Vinyl Chloride	1.40	62	46028	20.13	ug/l	99
5) Bromomethane	1.63	94	22823	20.44	ug/l	99
6) Chloroethane	1.70	64	26246	19.64	ug/l	96
7) Trichlorofluoromethane	1.89	101	67511	20.43	ug/l	99
8) Diethyl Ether	2.10	74	23130	19.34	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.28	101	40106	20.97	ug/l	100
10) Methyl Iodide	2.41	142	27262	21.25	ug/l	98
11) Tert butyl alcohol	2.83	59	61813	107.76	ug/l	99
12) 1,1-Dichloroethene	2.28	96	37220	20.62	ug/l	94
13) Acrolein	2.19	56	19241	91.33	ug/l	98
14) Allyl chloride	2.59	41	61220	18.87	ug/l	100
15) Acrylonitrile	2.94	53	122078	106.59	ug/l	99
16) Acetone	2.32	43	114248	89.44	ug/l	96
17) Carbon Disulfide	2.48	76	113096	19.36	ug/l	100
18) Methyl Acetate	2.62	43	70798	23.03	ug/l	100
19) Methyl tert-butyl Ether	3.00	73	133334	20.38	ug/l	98
20) Methylene Chloride	2.70	84	44857	19.82	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	41457	19.86	ug/l	100
22) Diisopropyl ether	3.58	45	131944	20.64	ug/l	94
23) Vinyl Acetate	3.53	43	570517	102.39	ug/l	100
24) 1,1-Dichloroethane	3.45	63	78828	20.54	ug/l	99
25) 2-Butanone	4.27	43	180576	103.85	ug/l	100
26) 2,2-Dichloropropane	4.23	77	61101	17.51	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	47186	20.05	ug/l	97
28) Bromochloromethane	4.55	49	37982	22.13	ug/l	99
29) Tetrahydrofuran	4.64	42	111473	107.01	ug/l	100
30) Chloroform	4.68	83	82481	20.36	ug/l	99
31) Cyclohexane	5.00	56	70015	20.16	ug/l	97
32) 1,1,1-Trichloroethane	4.92	97	74668	20.47	ug/l	100
36) 1,1-Dichloropropene	5.14	75	58937	19.46	ug/l	98
37) Ethyl Acetate	4.38	43	64813	20.64	ug/l	100
38) Carbon Tetrachloride	5.14	117	66045	19.25	ug/l	98

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 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	66827	19.26	ug/l	99
40) Benzene	5.39	78	171782	19.41	ug/l	99
41) Methacrylonitrile	4.54	41	36354	20.84	ug/l	99
42) 1,2-Dichloroethane	5.41	62	67874	19.91	ug/l	100
43) Isopropyl Acetate	5.55	43	105022	20.24	ug/l	99
44) Trichloroethene	6.19	130	47427	19.24	ug/l	98
45) 1,2-Dichloropropane	6.44	63	45757	19.82	ug/l	98
46) Dibromomethane	6.56	93	33492	20.02	ug/l	96
47) Bromodichloromethane	6.76	83	61613	19.31	ug/l	98
48) Methyl methacrylate	6.63	41	52685	20.72	ug/l	98
49) 1,4-Dioxane	6.62	88	25851	417.70	ug/l	97
51) 4-Methyl-2-Pentanone	7.46	43	334805	103.06	ug/l	100
52) Toluene	7.64	92	109675	19.94	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	69622	19.43	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	71360	19.39	ug/l	99
55) 1,1,2-Trichloroethane	8.07	97	45160	19.76	ug/l	97
56) Ethyl methacrylate	8.02	69	63544	19.46	ug/l	99
57) 1,3-Dichloropropane	8.25	76	75851	19.73	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	132365	94.06	ug/l	100
59) 2-Hexanone	8.36	43	261934	102.86	ug/l	98
60) Dibromochloromethane	8.48	129	50931	18.90	ug/l	97
61) 1,2-Dibromoethane	8.59	107	49319	19.40	ug/l	98
64) Tetrachloroethene	8.23	164	43308	19.87	ug/l	98
65) Chlorobenzene	9.12	112	125242	19.62	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.21	131	46500	20.14	ug/l	99
67) Ethyl Benzene	9.25	91	208098	19.68	ug/l	100
68) m/p-Xylenes	9.38	106	166496	41.02	ug/l	98
69) o-Xylene	9.78	106	79011	19.92	ug/l	100
70) Styrene	9.80	104	126596	19.76	ug/l	99
71) Bromoform	9.96	173	38506	19.23	ug/l #	100
73) Isopropylbenzene	10.17	105	212610	20.25	ug/l	100
74) N-amyl acetate	10.02	43	89569	20.90	ug/l	100
75) 1,1,2,2-Tetrachloroethane	10.46	83	73282	20.18	ug/l	97
76) 1,2,3-Trichloropropane	10.50	75	65721m	19.39	ug/l	
77) Bromobenzene	10.45	156	56077	19.36	ug/l	98
78) n-propylbenzene	10.59	91	251020	20.48	ug/l	100
79) 2-Chlorotoluene	10.66	91	147521	20.55	ug/l	99
80) 1,3,5-Trimethylbenzene	10.78	105	183652	20.60	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.50	75	51884m	38.38	ug/l	
82) 4-Chlorotoluene	10.78	91	174424	20.61	ug/l	99
83) tert-Butylbenzene	11.10	119	176571	19.93	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	189360	20.96	ug/l	98
85) sec-Butylbenzene	11.33	105	221832	20.51	ug/l	100
86) p-Isopropyltoluene	11.48	119	199192	20.57	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	107451	19.99	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	109949	19.62	ug/l	98
89) n-Butylbenzene	11.89	91	178890	20.01	ug/l	99
90) Hexachloroethane	12.15	117	32200	18.70	ug/l	98
91) 1,2-Dichlorobenzene	11.88	146	106596	20.23	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	18037	20.95	ug/l	98

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MSVOA_U
ClientSampleId :
VU0727MBSD01

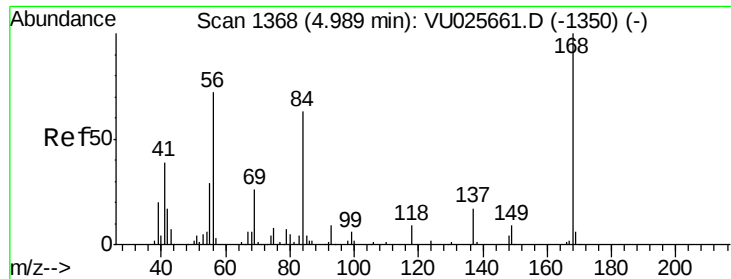
Manual Integrations
APPROVED

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7/31/2018 3:49:37 PM

Quant Time: Jul 28 05:20:54 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 27 13:11:52 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.51	180	73593	20.69	ug/l	99
94) Hexachlorobutadiene	13.70	225	36272	19.35	ug/l	98
95) Naphthalene	13.75	128	225185	20.47	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	75535	21.29	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion:168 Resp: 168152

Ion Ratio Lower Upper

168 100

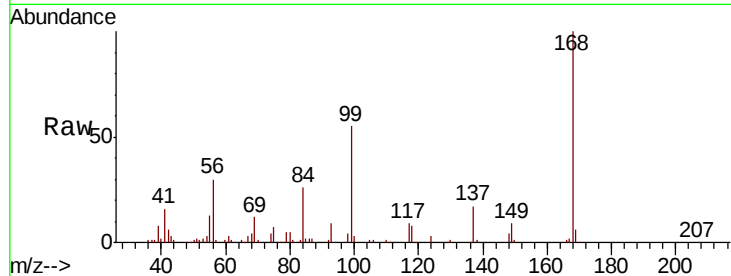
99 55.1 42.8 64.2

Manual Integrations

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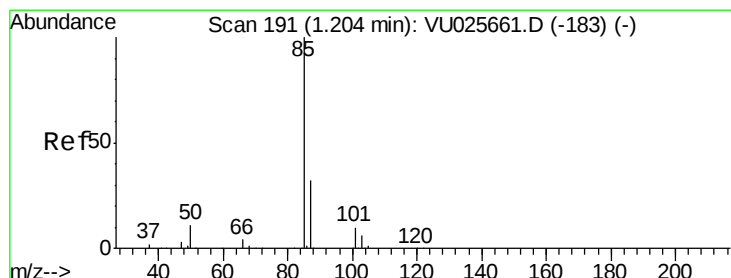
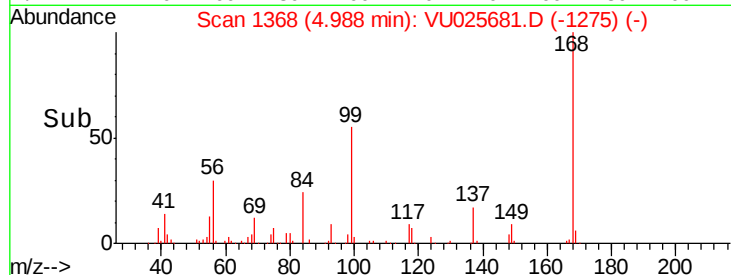
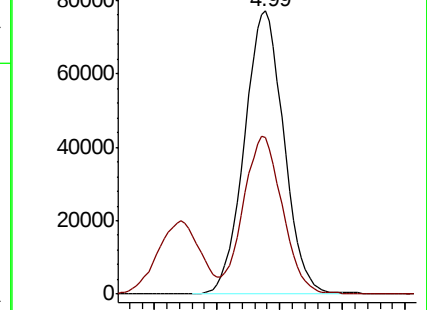
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): VU025681.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025681.D (-1350) (-)



#2

Dichlorodifluoromethane

Concen: 21.46 ug/l

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU025681.D

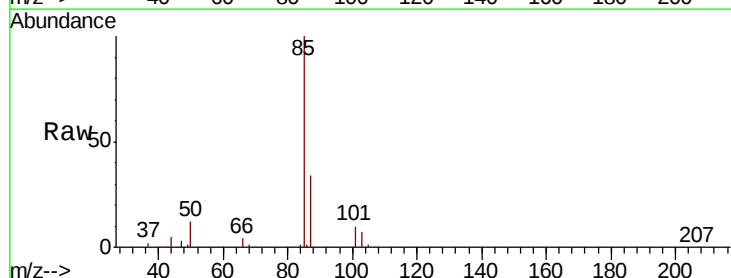
Acq: 27 Jul 2018 20:00

Tgt Ion: 85 Resp: 54544

Ion Ratio Lower Upper

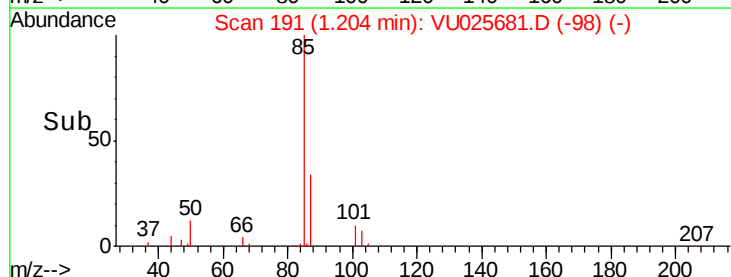
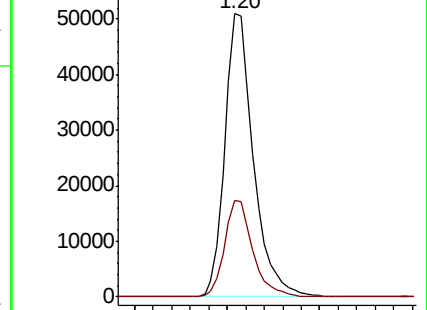
85 100

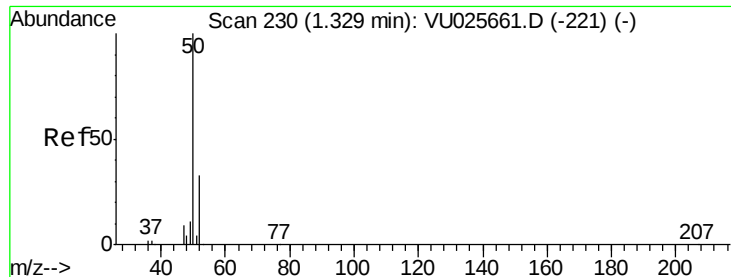
87 33.9 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU025681.D (-98) (-)

Ion 86.90 (86.60 to 87.60): VU025681.D (-98) (-)





#3

Chloromethane

Concen: 19.71 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBS01

Tot Ion: 50 Resp: 47887

Ion Ratio Lower Upper

50 100

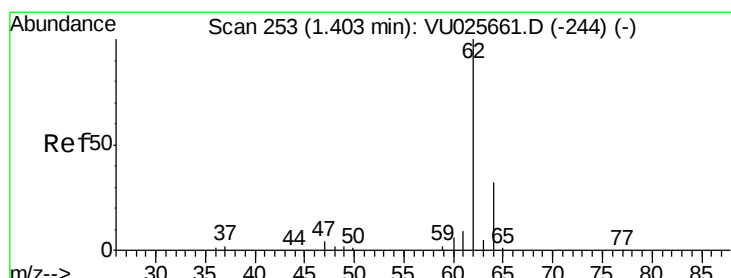
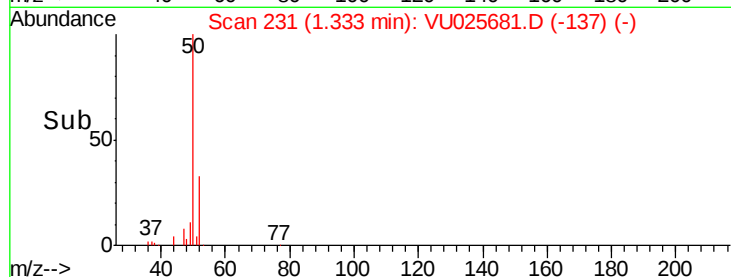
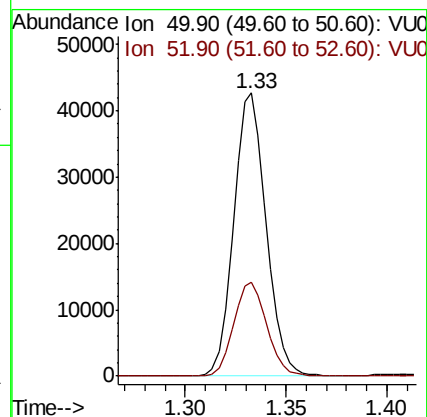
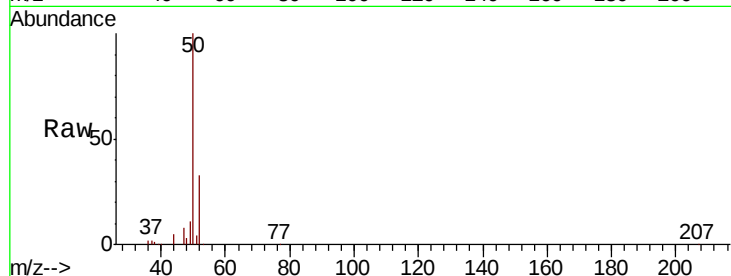
52 33.0 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.13 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025681.D

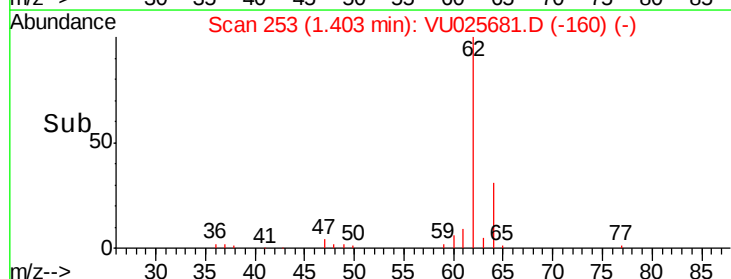
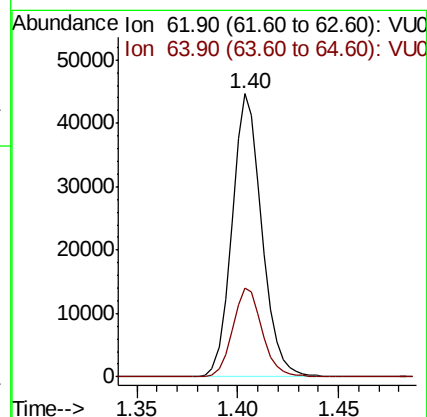
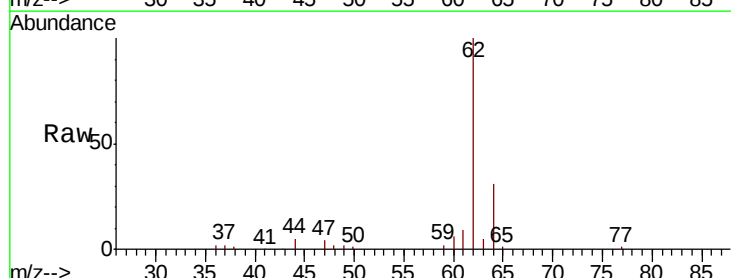
Acq: 27 Jul 2018 20:00

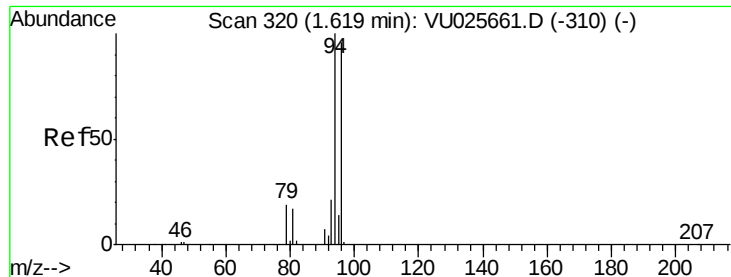
Tgt Ion: 62 Resp: 46028

Ion Ratio Lower Upper

62 100

64 31.3 25.4 38.0





#5

Bromomethane

Concen: 20.44 ug/l

RT: 1.63 min Scan# 322

Delta R.T. 0.01 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion: 94 Resp: 22823

Ion Ratio Lower Upper

94 100

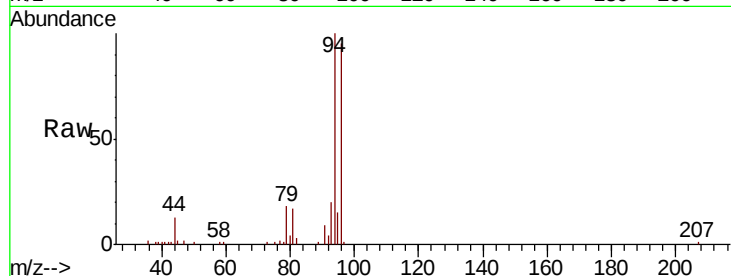
96 94.6 75.0 112.4

Manual Integrations

APPROVED

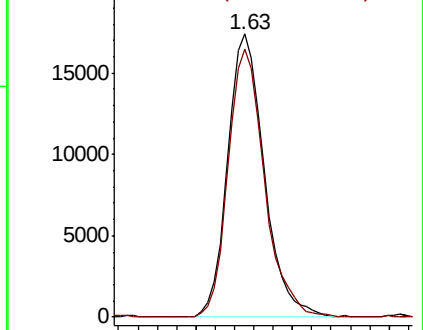
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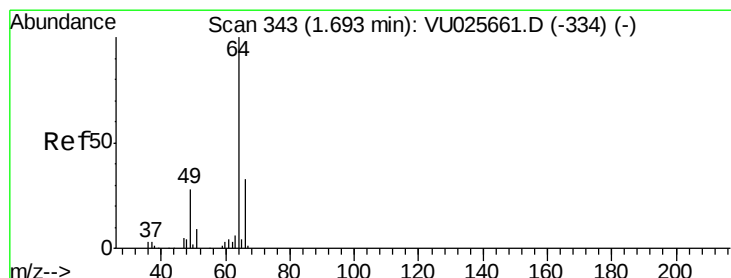
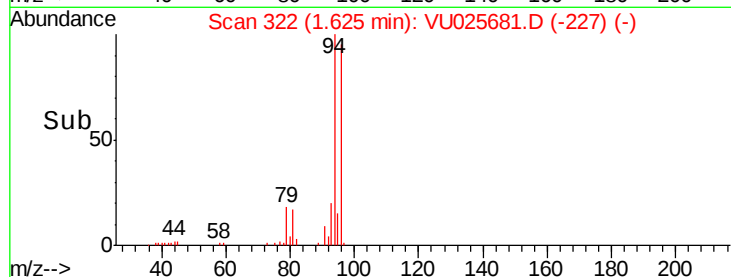


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#6

Chloroethane

Concen: 19.64 ug/l

RT: 1.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VU025681.D

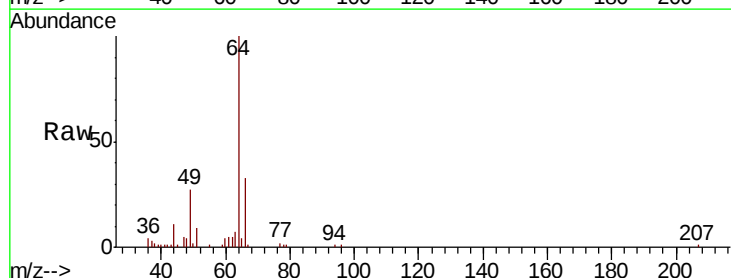
Acq: 27 Jul 2018 20:00

Tgt Ion: 64 Resp: 26246

Ion Ratio Lower Upper

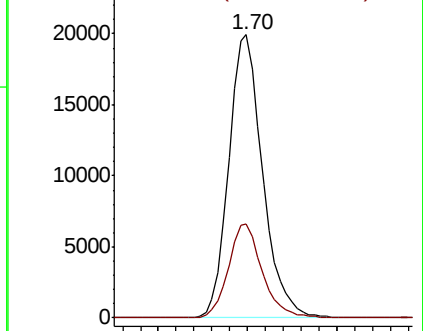
64 100

66 33.3 25.0 37.4

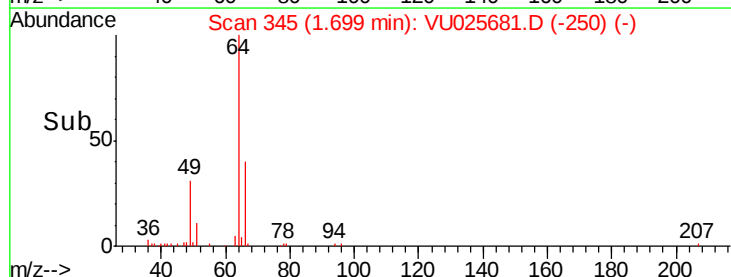


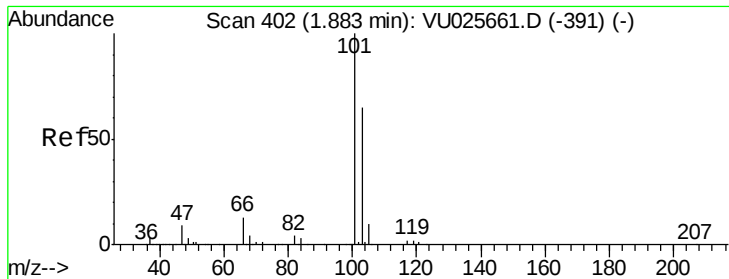
Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



Time-->





#7

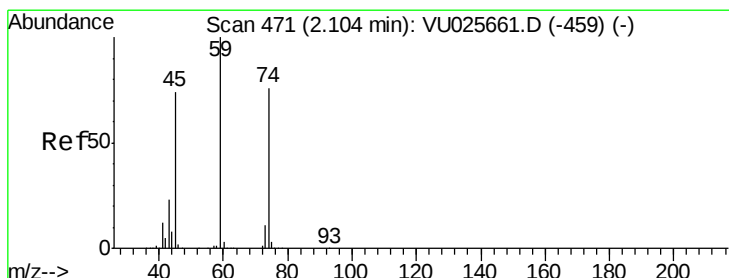
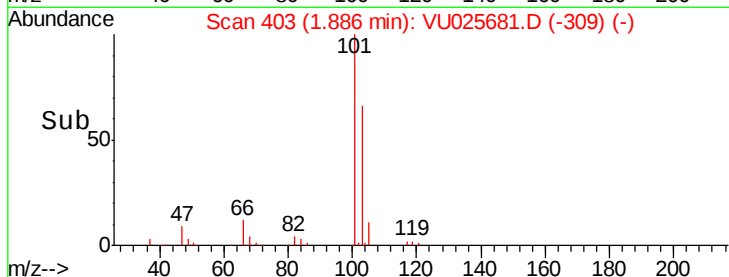
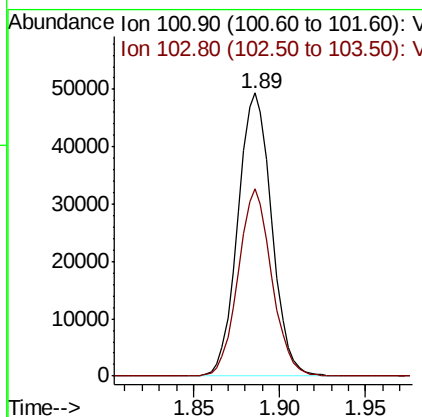
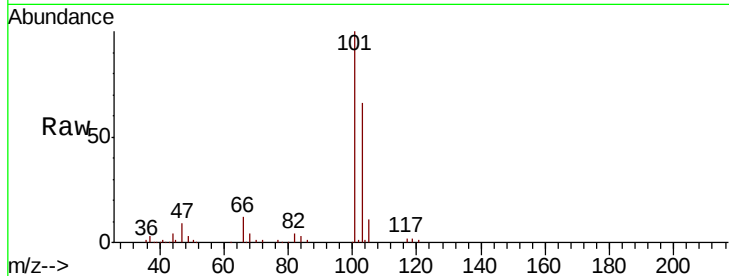
Trichlorofluoromethane
 Concen: 20.43 ug/l
 RT: 1.89 min Scan# 403
 Delta R.T. 0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727MBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.1	52.2	78.2

Manual Integrations
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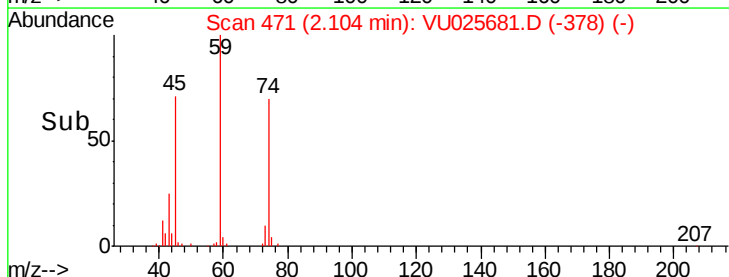
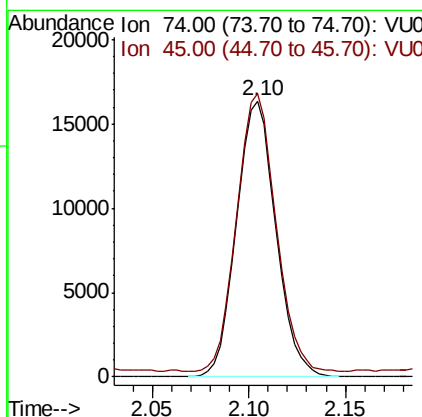
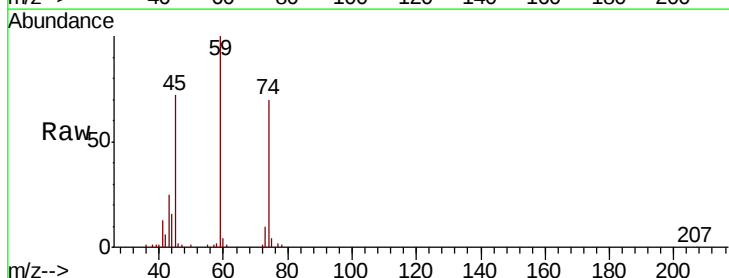
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 7/31/2018 3:49:37 PM

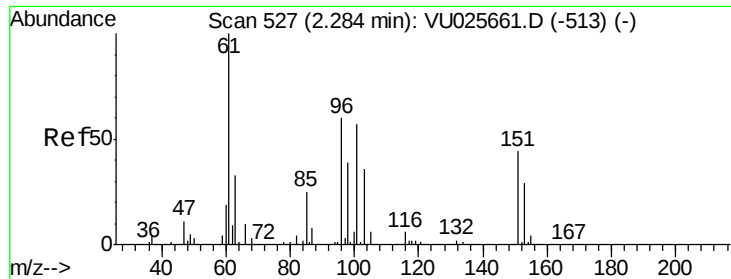


#8

Diethyl Ether
 Concen: 19.34 ug/l
 RT: 2.10 min Scan# 471
 Delta R.T. -0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.7	48.3	144.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.97 ug/l

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

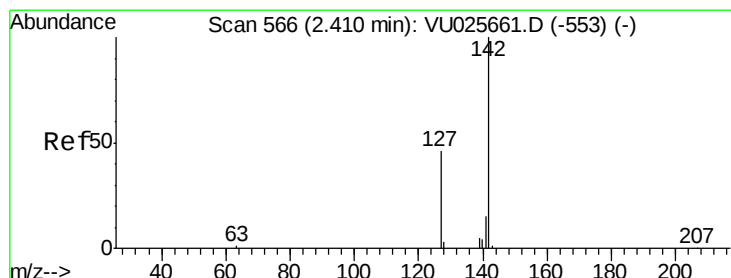
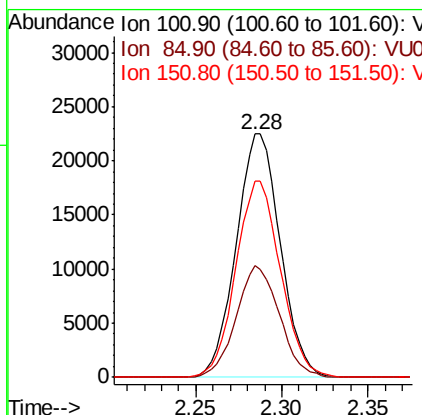
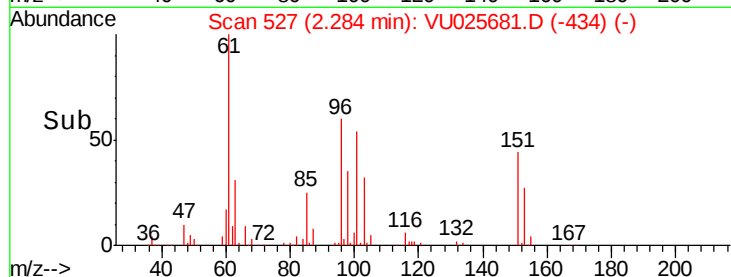
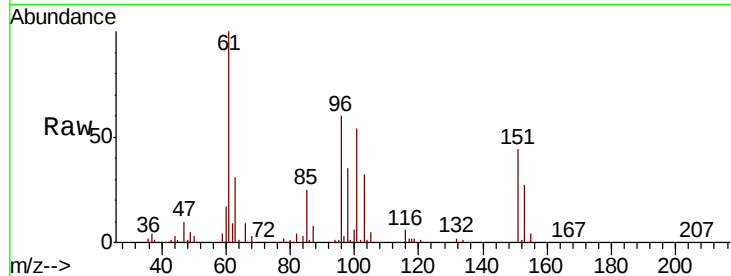
ClientSampleId :

VU0727MBSD01

Tot Ion:	101	Resp:	40106
Ion Ratio	Lower	Upper	
101	100		
85	44.8	36.0	54.0
151	81.6	65.6	98.4

Manual Integrations
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#10

Methyl Iodide

Concen: 21.25 ug/l

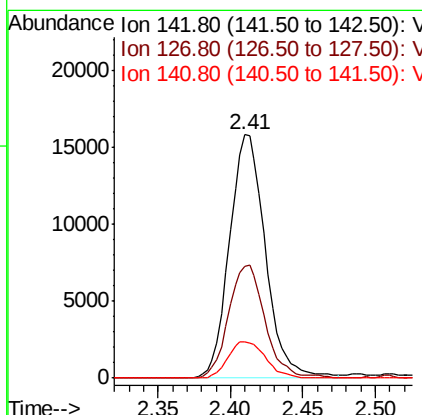
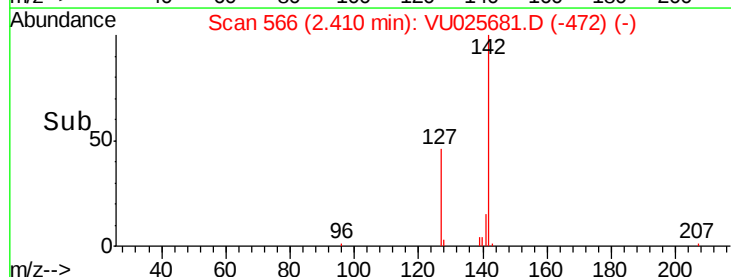
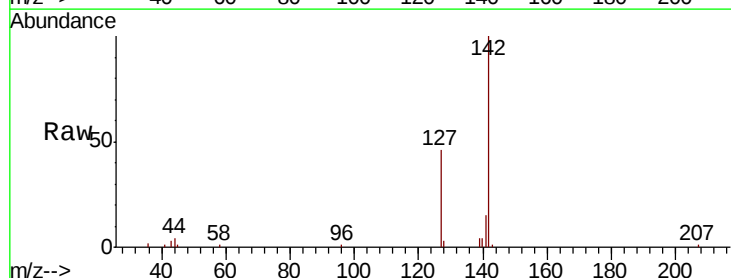
RT: 2.41 min Scan# 566

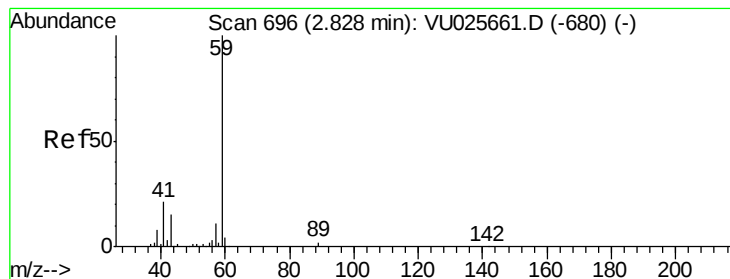
Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion:	142	Resp:	27262
Ion Ratio	Lower	Upper	
142	100		
127	46.8	36.5	54.7
141	15.6	11.4	17.2





#11

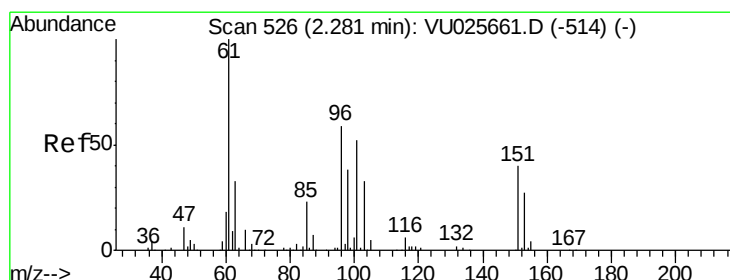
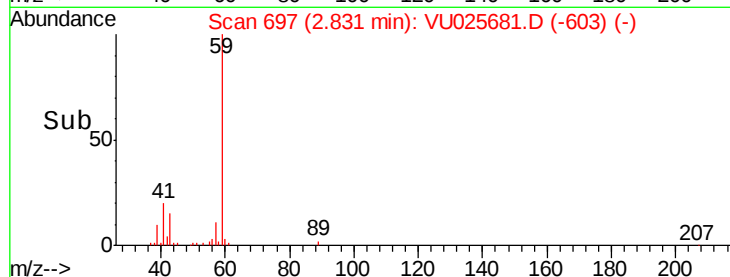
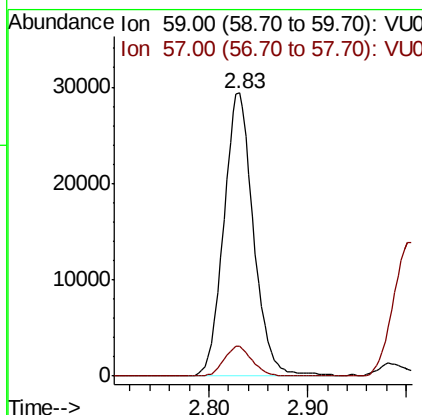
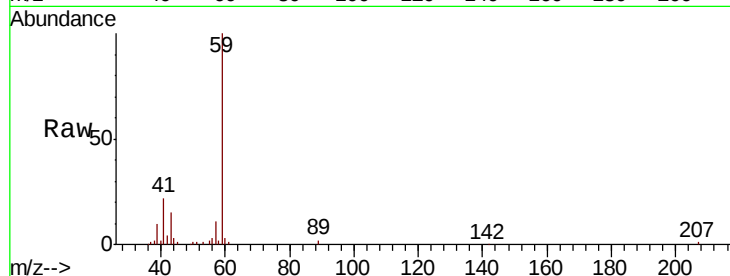
Tert butyl alcohol
Concen: 107.76 ug/l
RT: 2.83 min Scan# 697
Delta R.T. 0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion: 59 Resp: 61813
Ion Ratio Lower Upper
59 100
57 10.0 8.2 12.2

Manual Integrations
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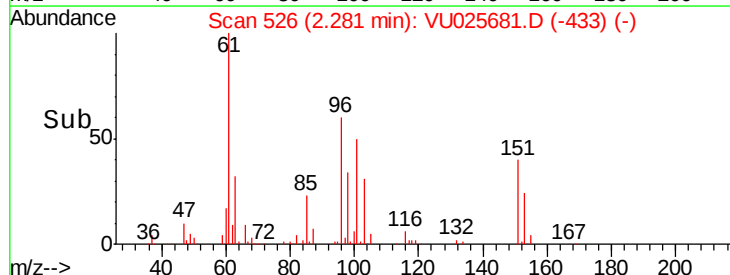
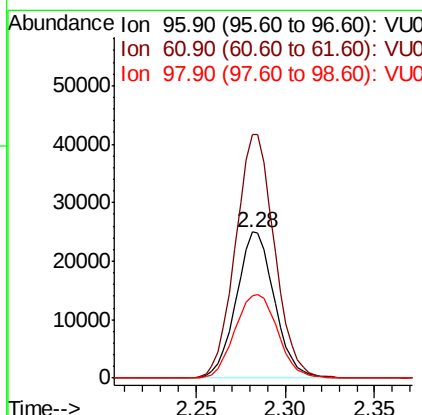
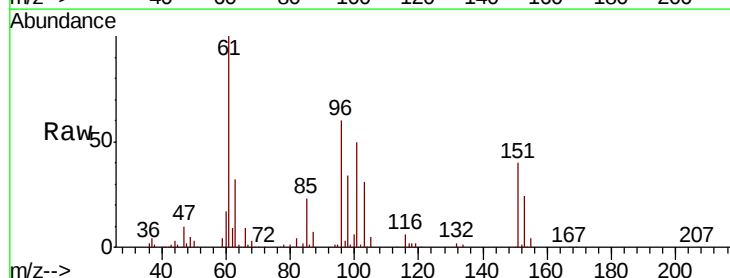
MMDadoda
7/31/2018 3:49:37 PM

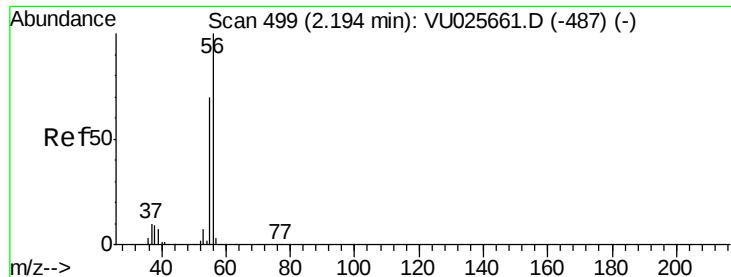


#12

1,1-Dichloroethene
Concen: 20.62 ug/l
RT: 2.28 min Scan# 526
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion: 96 Resp: 37220
Ion Ratio Lower Upper
96 100
61 166.5 140.2 210.4
98 56.6 49.3 73.9





#13

Acrolein

Concen: 91.33 ug/l

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBS01

Tot Ion: 56 Resp: 19241

Ion Ratio Lower Upper

56 100

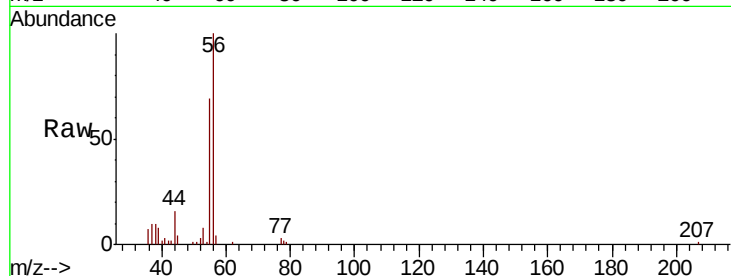
55 70.1 57.2 85.8

Manual Integrations

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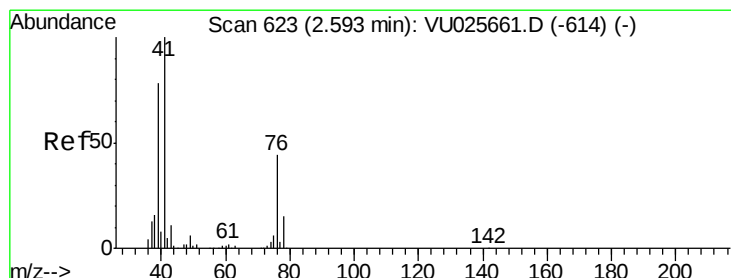
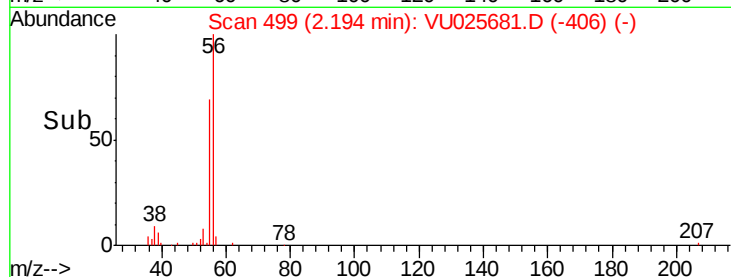
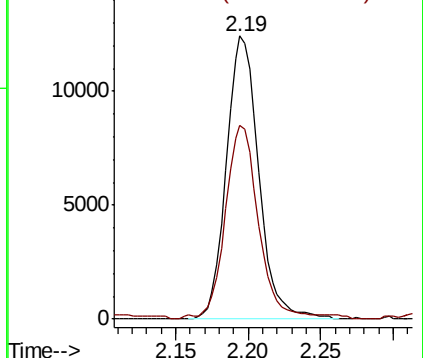
MMDadoda

7/31/2018 3:49:37 PM



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 18.87 ug/l

RT: 2.59 min Scan# 623

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

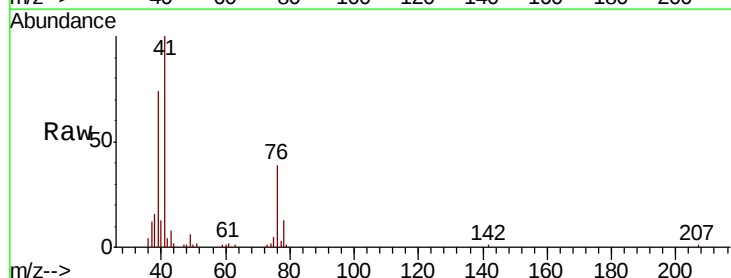
Tgt Ion: 41 Resp: 61220

Ion Ratio Lower Upper

41 100

39 76.1 60.6 91.0

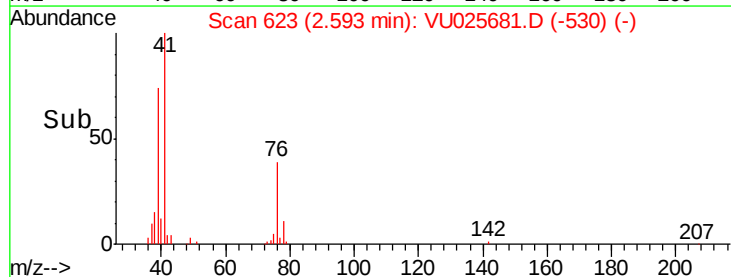
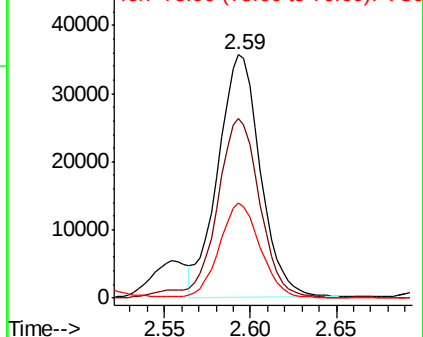
76 38.0 30.5 45.7



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 106.59 ug/l

RT: 2.94 min Scan# 730

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

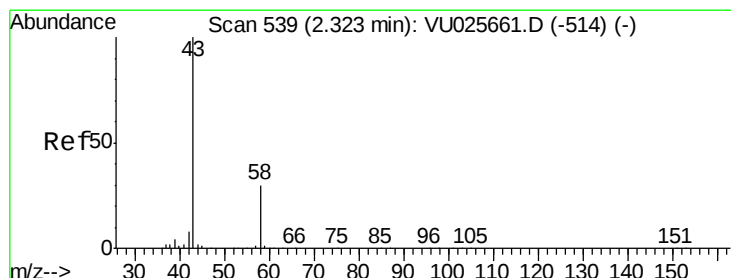
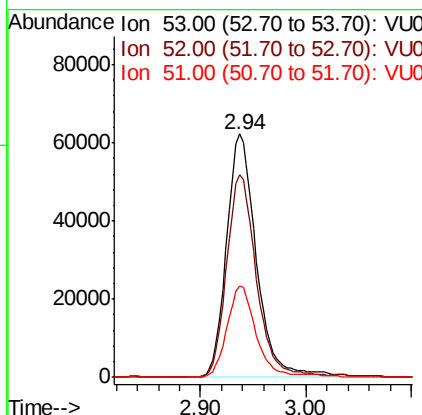
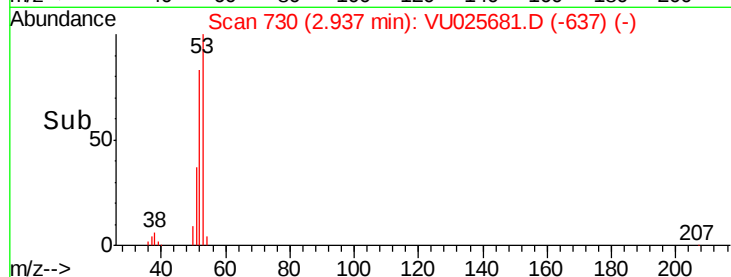
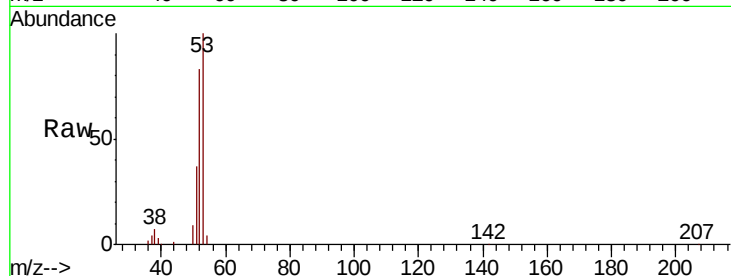
ClientSampleId :

VU0727MBSD01

Tot Ion	53	Resp	122078
Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.6	99.8
51	35.8	29.4	44.2

Manual Integrations
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MMDadoda
7/31/2018 3:49:37 PM



#16

Acetone

Concen: 89.44 ug/l

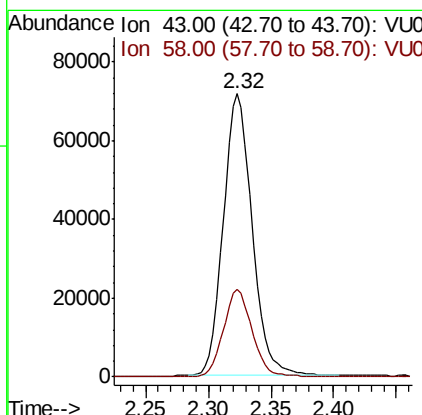
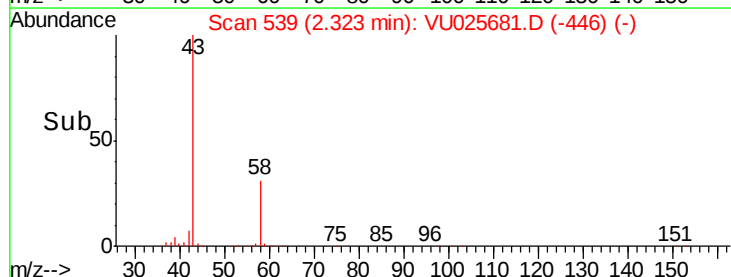
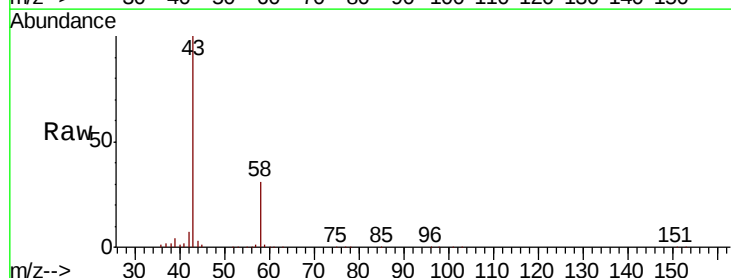
RT: 2.32 min Scan# 539

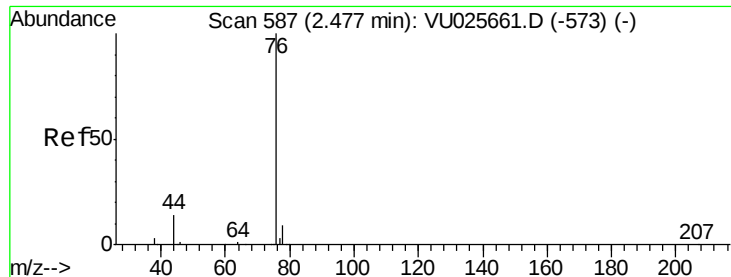
Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion	43	Resp	114248
Ion	Ratio	Lower	Upper
43	100		
58	31.2	23.1	34.7





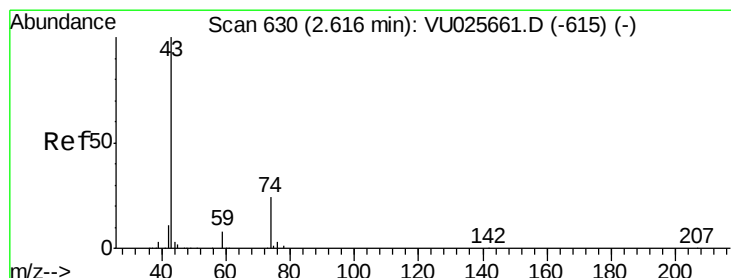
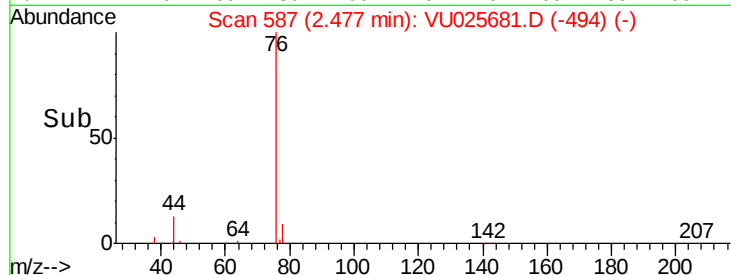
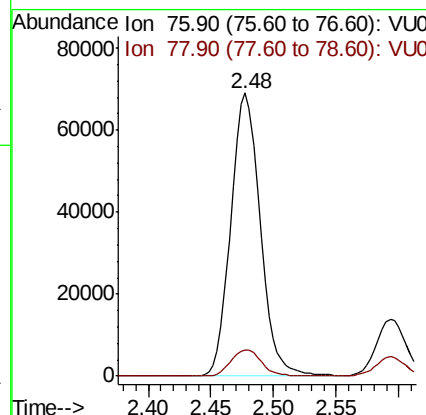
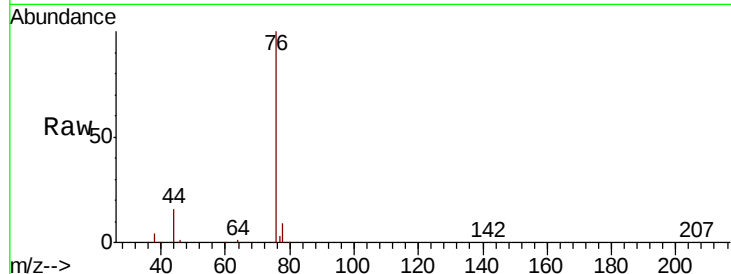
#17
Carbon Disulfide
Concen: 19.36 ug/l
RT: 2.48 min Scan# 587
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.2

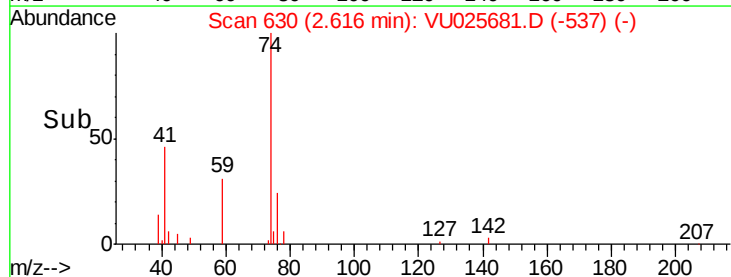
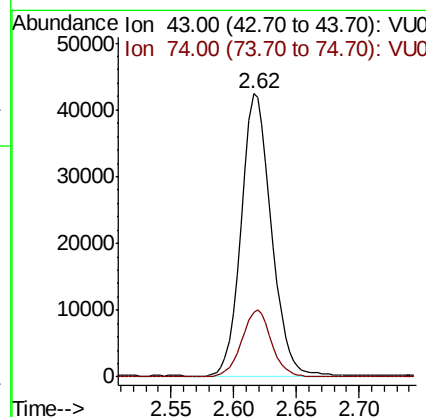
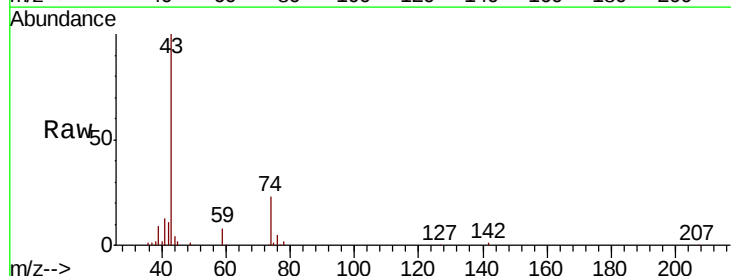
Manual Integrations
APPROVED

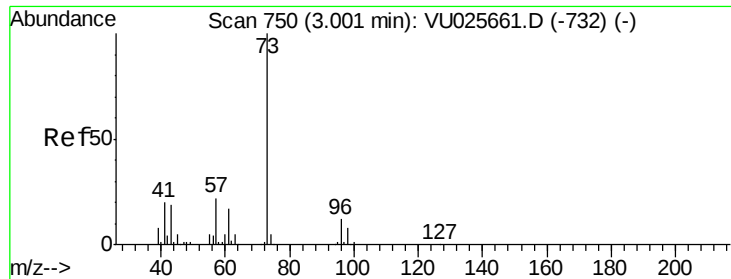
MMDadoda
7/31/2018 3:49:37 PM



#18
Methyl Acetate
Concen: 23.03 ug/l
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.5	27.7





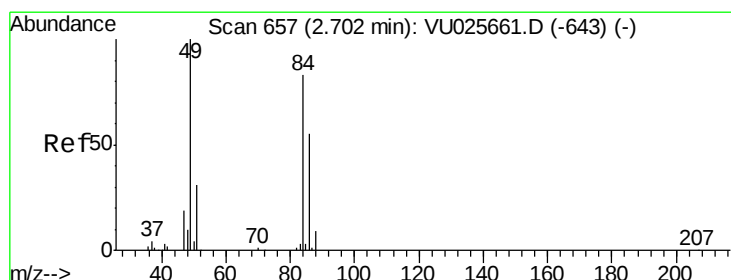
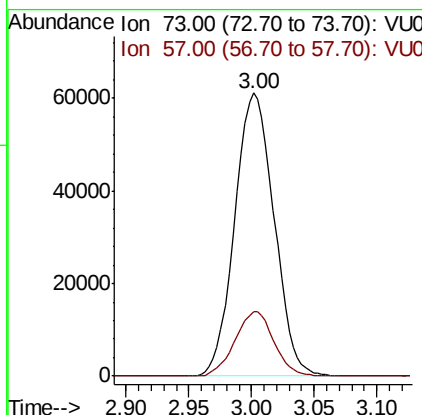
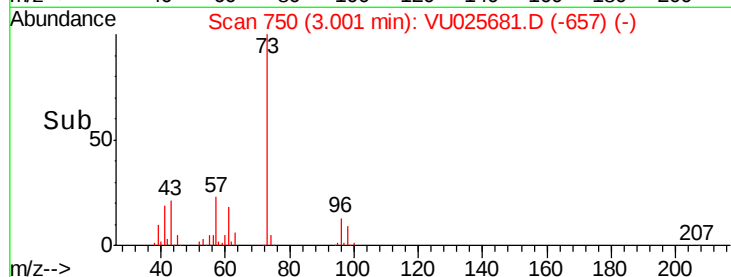
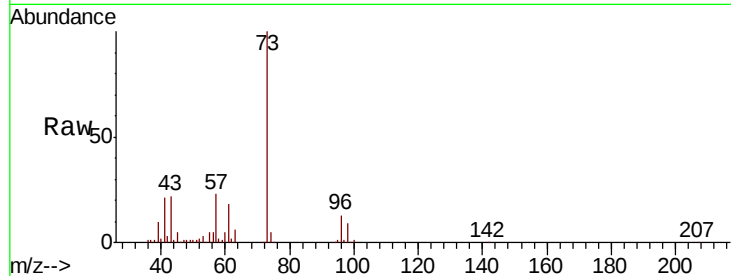
#19
Methvl tert-butvl Ether
Concen: 20.38 ug/l
RT: 3.00 min Scan# 750
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.4	26.2

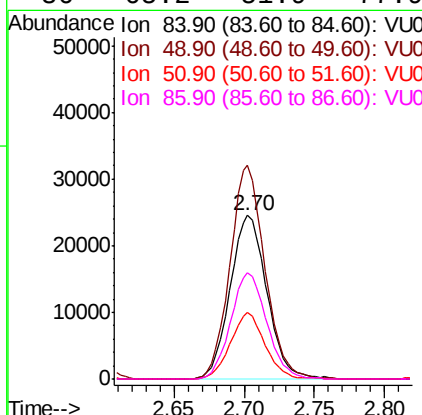
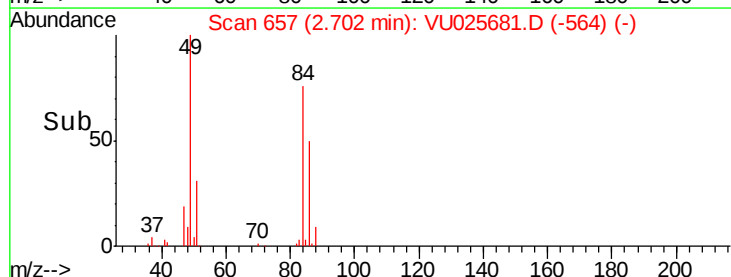
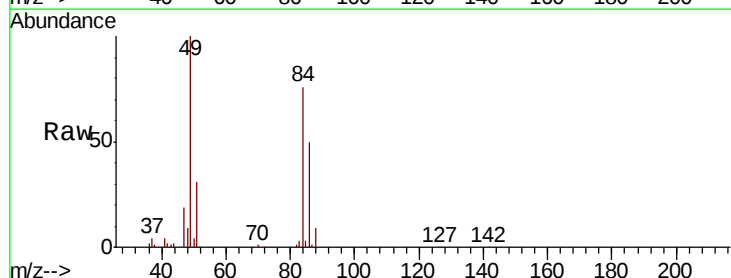
Manual Integrations
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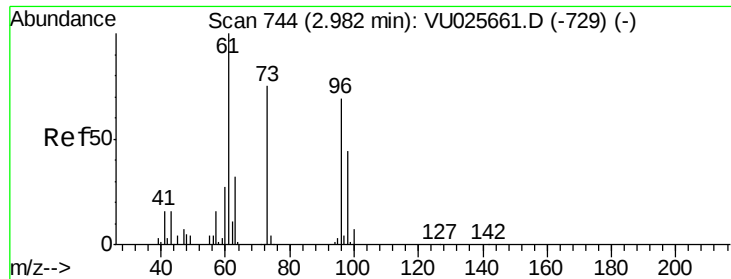
MMDadoda
7/31/2018 3:49:37 PM



#20
Methylene Chloride
Concen: 19.82 ug/l
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
84	100		
49	130.8	101.8	152.6
51	40.4	30.8	46.2
86	65.2	51.9	77.9





#21

trans-1,2-Dichloroethene

Concen: 19.86 ug/l

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

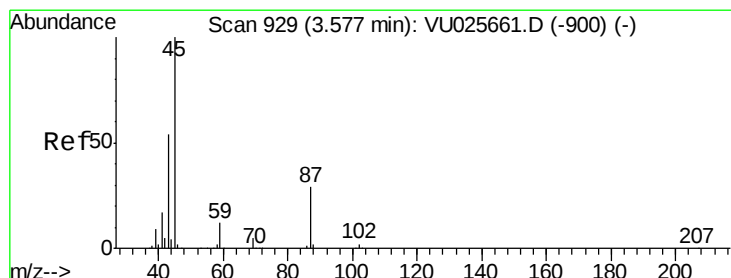
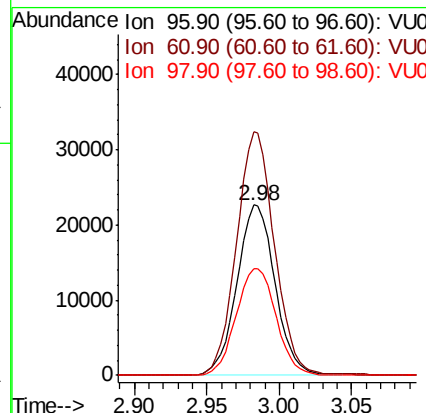
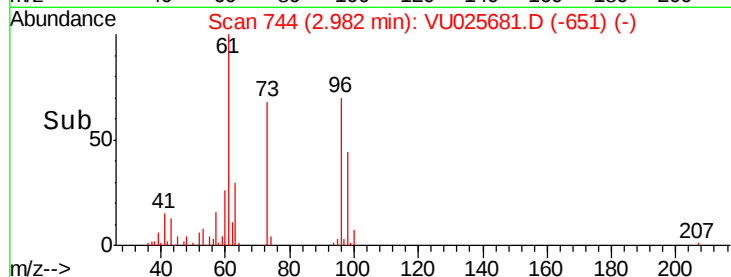
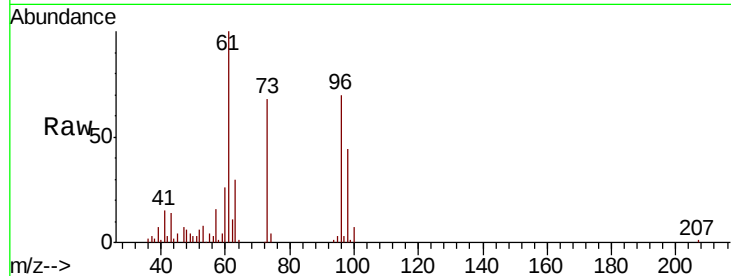
ClientSampleId :

VU0727MBSD01

Tot Ion:	96	Resp:	41457
Ion	Ratio	Lower	Upper
96	100		
61	143.1	114.5	171.7
98	62.5	50.5	75.7

Manual Integrations
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7/31/2018 3:49:37 PM



#22

Diisopropyl ether

Concen: 20.64 ug/l

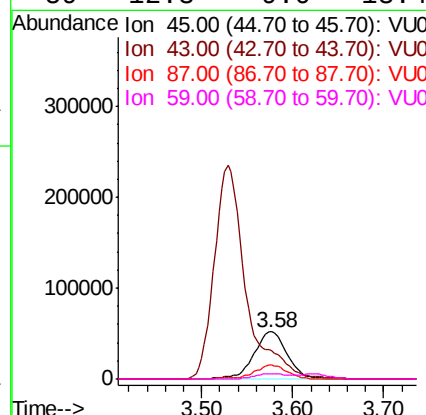
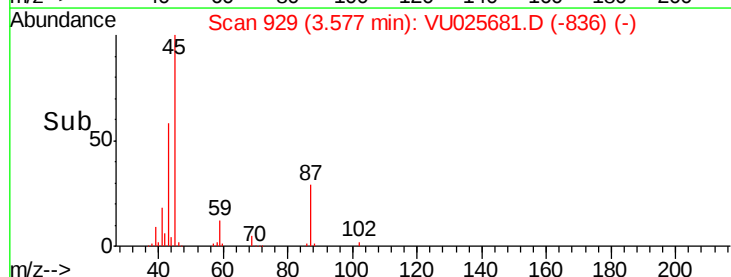
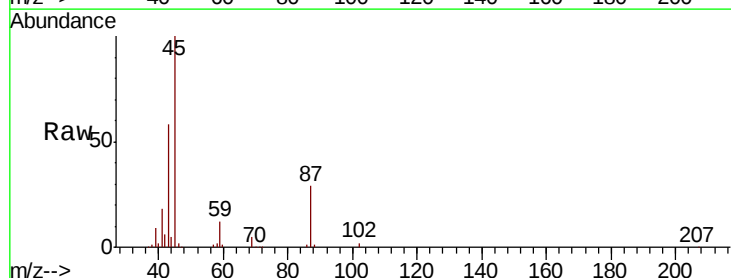
RT: 3.58 min Scan# 929

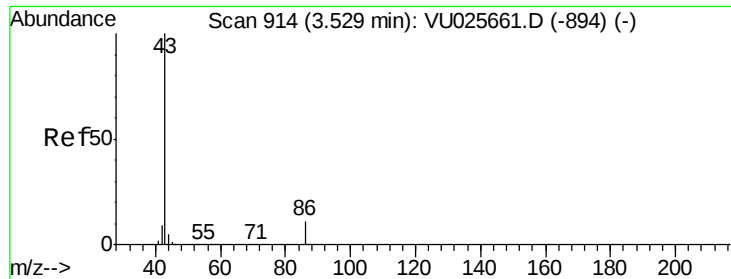
Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion:	45	Resp:	131944
Ion	Ratio	Lower	Upper
45	100		
43	56.8	50.9	76.3
87	29.1	23.8	35.8
59	12.3	9.0	13.4





#23

Vinyl Acetate

Concen: 102.39 ug/l

RT: 3.53 min Scan# 914

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion: 43 Resp: 570517

Ion Ratio Lower Upper

43 100

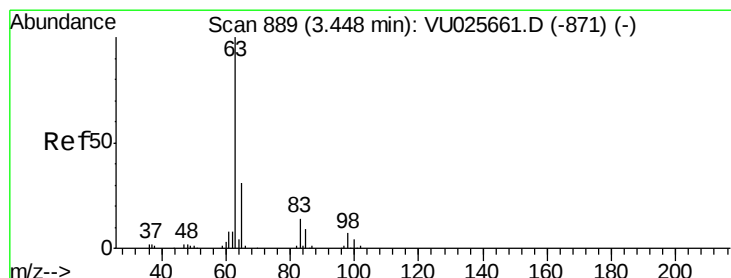
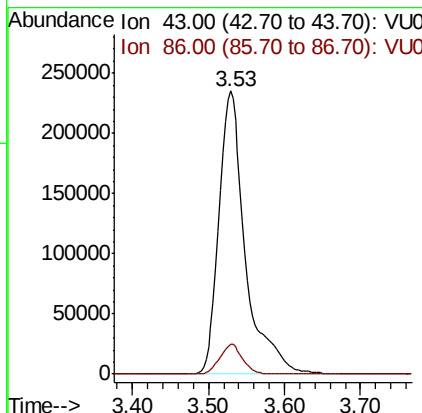
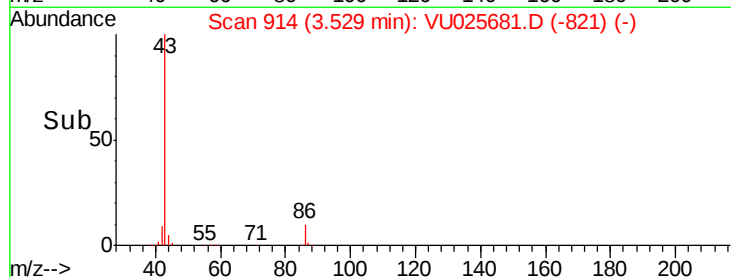
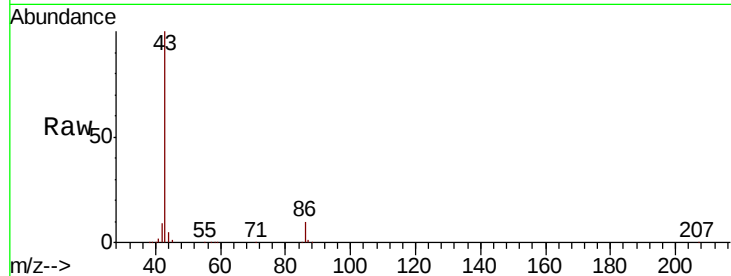
86 10.4 8.2 12.2

Manual Integrations

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MMDadoda

7/31/2018 3:49:37 PM



#24

1,1-Dichloroethane

Concen: 20.54 ug/l

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

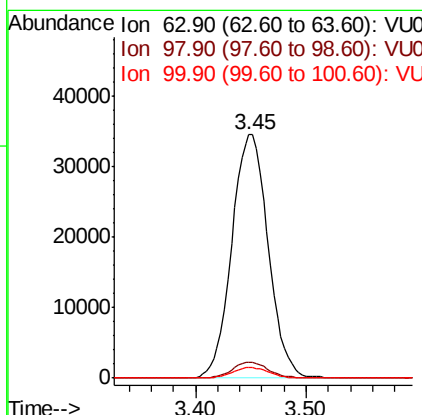
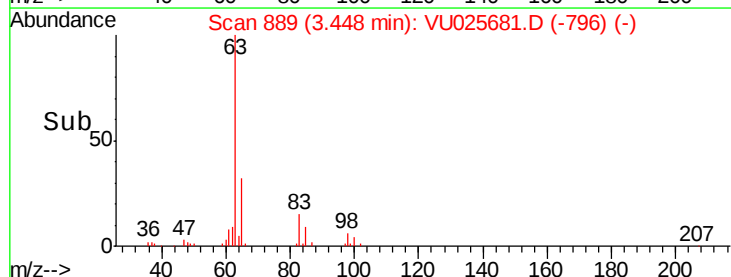
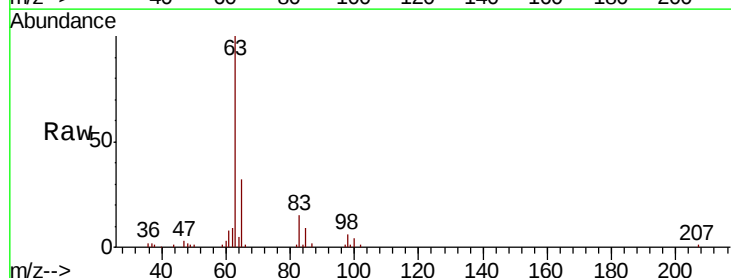
Tgt Ion: 63 Resp: 78828

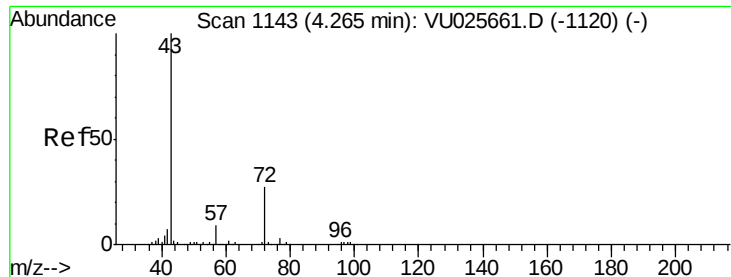
Ion Ratio Lower Upper

63 100

98 6.4 3.4 10.1

100 4.4 2.0 6.0





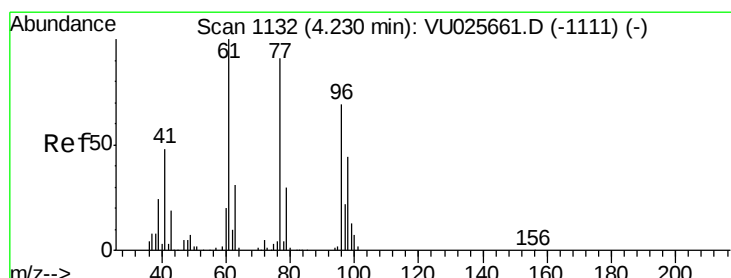
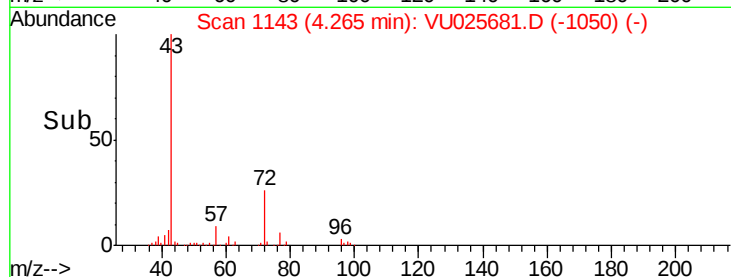
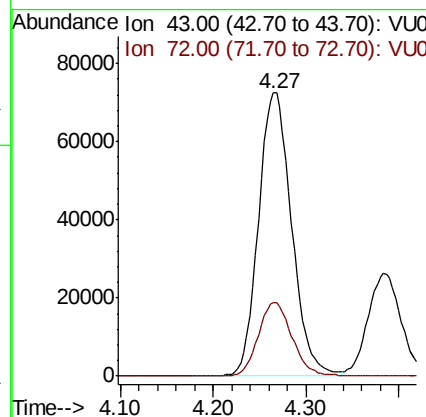
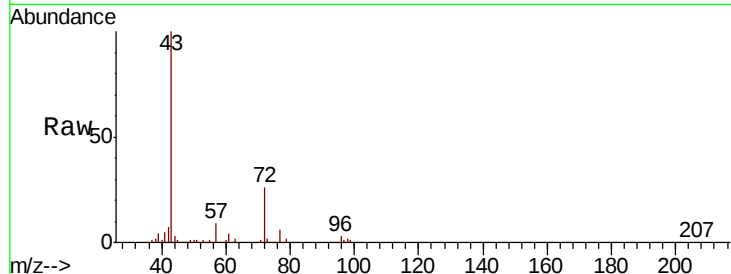
#25
2-Butanone
Concen: 103.85 ug/l
RT: 4.27 min Scan# 1143
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
72	26.2	21.0	31.4

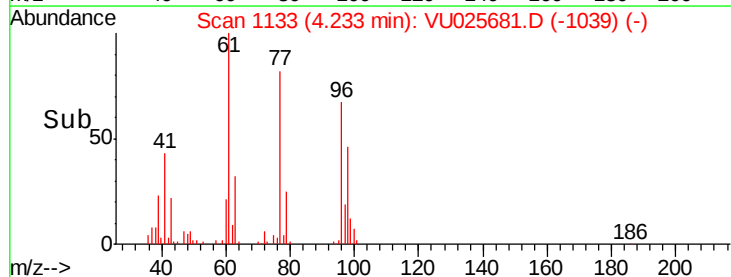
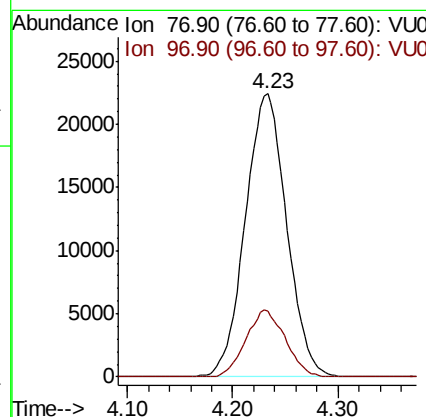
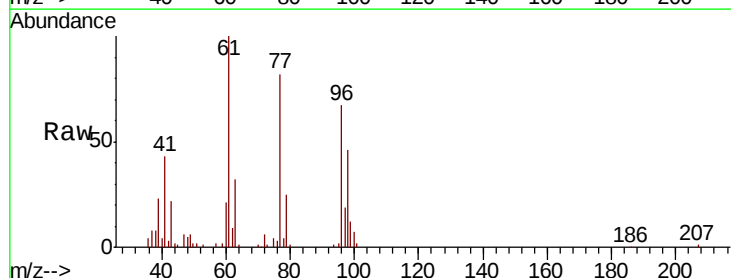
Manual Integrations
APPROVED

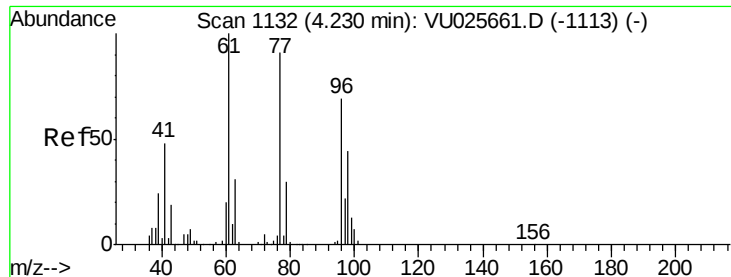
MMDadoda
7/31/2018 3:49:37 PM



#26
2,2-Dichloropropane
Concen: 17.51 ug/l
RT: 4.23 min Scan# 1133
Delta R.T. 0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.2	33.5





#27

cis-1,2-Dichloroethene

Concen: 20.05 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

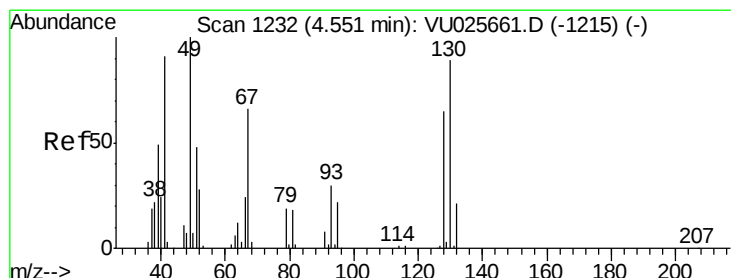
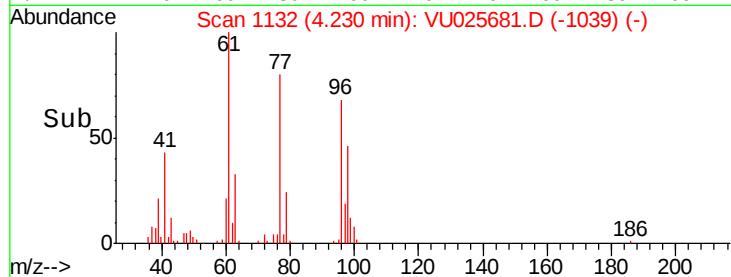
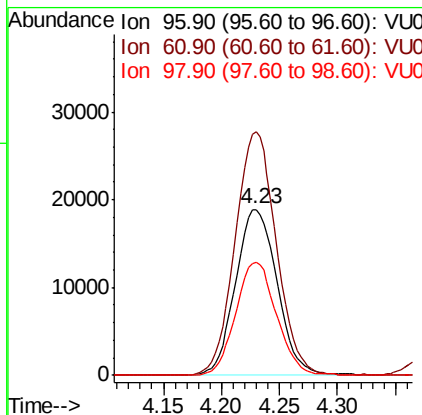
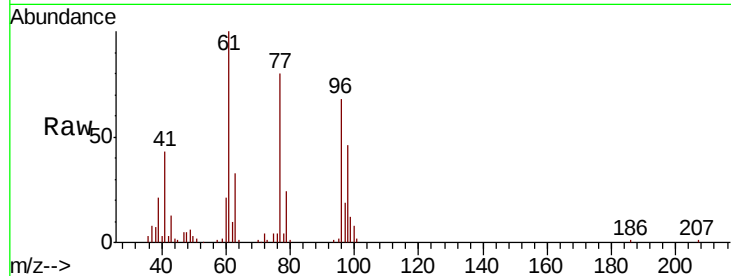
ClientSampleId :

VU0727MBSD01

Tot Ion:	96	Resp:	47186
Ion	Ratio	Lower	Upper
96	100		
61	145.3	0.0	299.8
98	66.7	0.0	128.6

Manual Integrations
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#28

Bromochloromethane

Concen: 22.13 ug/l

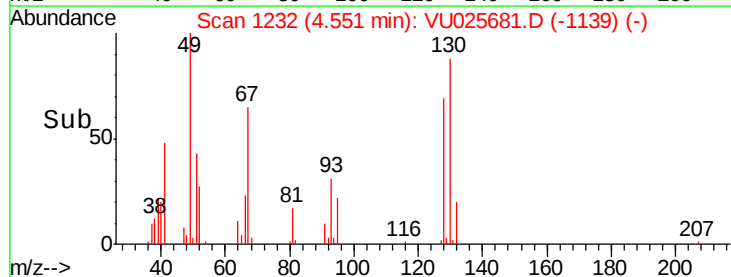
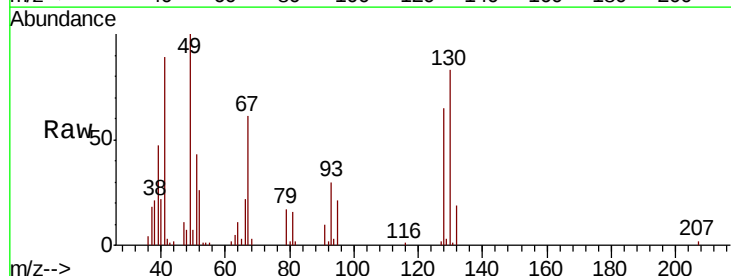
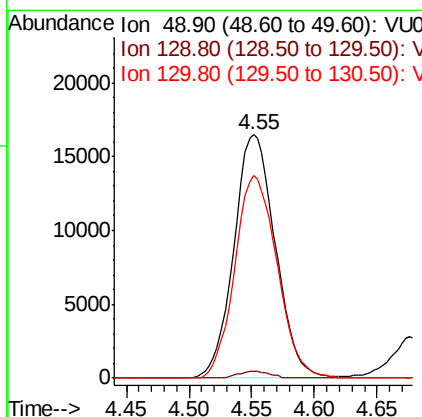
RT: 4.55 min Scan# 1232

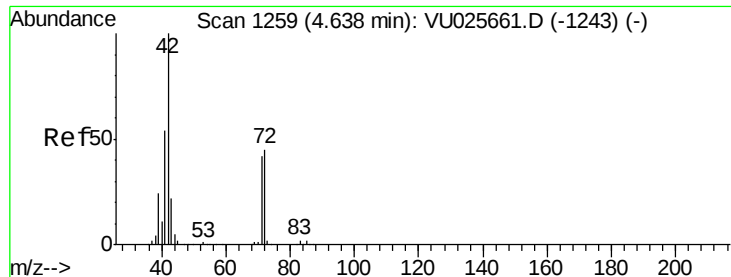
Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion:	49	Resp:	37982
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.6
130	84.6	68.6	102.8





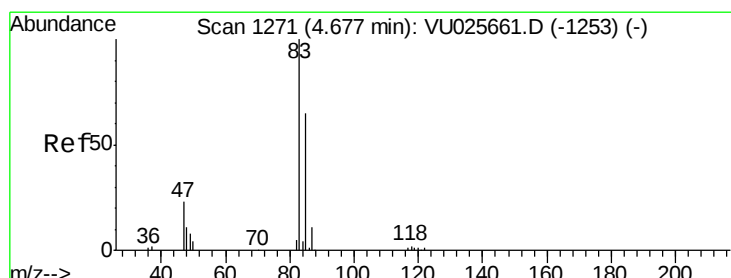
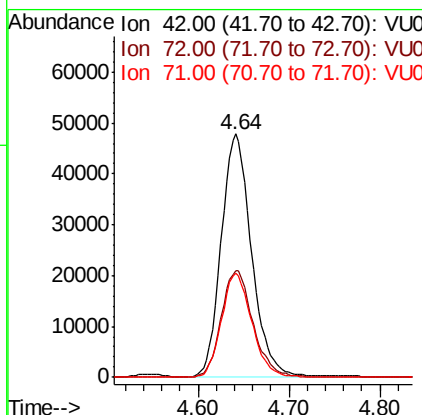
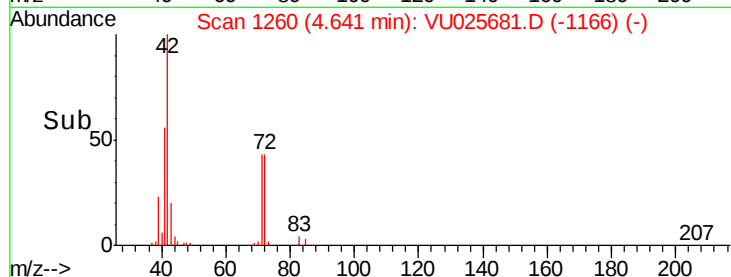
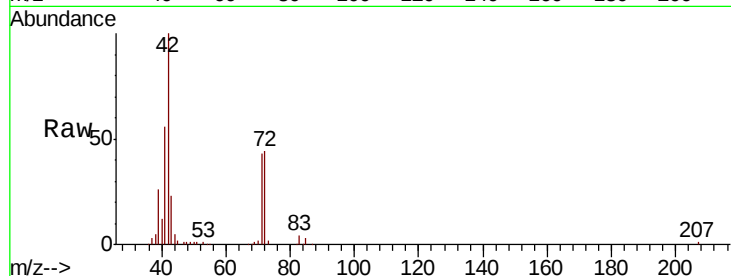
#29
Tetrahydrofuran
Concen: 107.01 ug/l
RT: 4.64 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.7	36.7	55.1
71	42.5	33.9	50.9

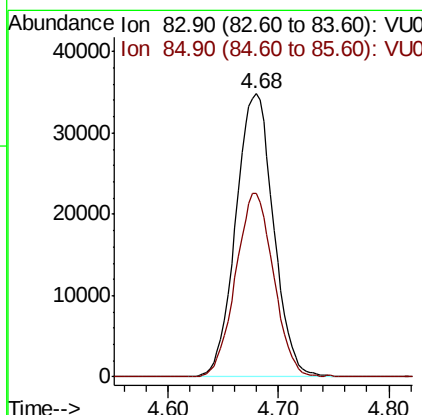
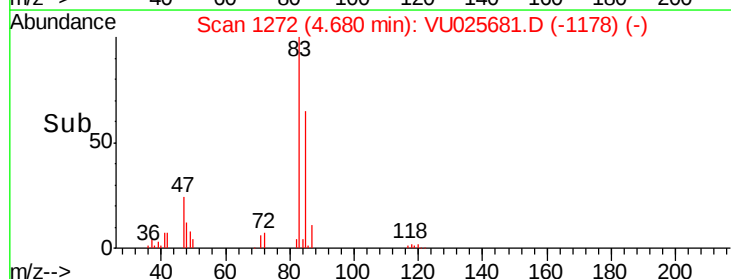
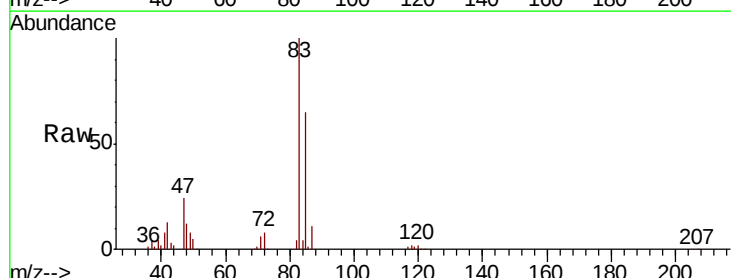
Manual Integrations
APPROVED

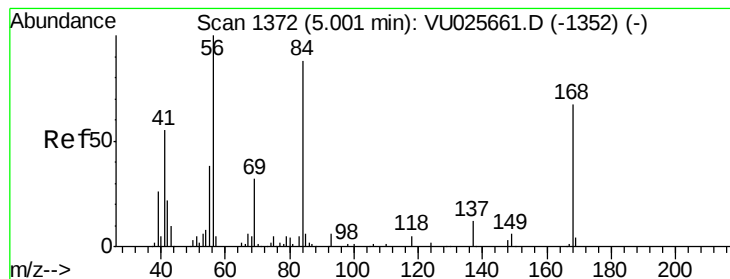
MMDadoda
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#30
Chloroform
Concen: 20.36 ug/l
RT: 4.68 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.5	77.3





#31

Cyclohexane

Concen: 20.16 ug/l

RT: 5.00 min Scan# 1371

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

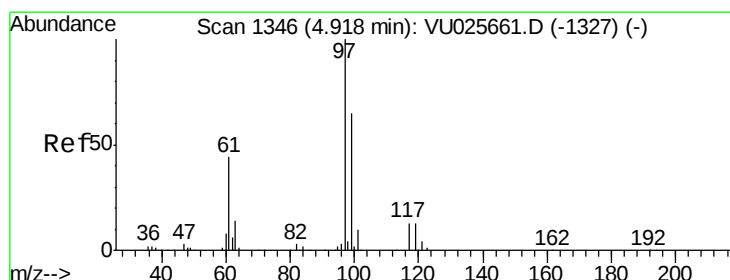
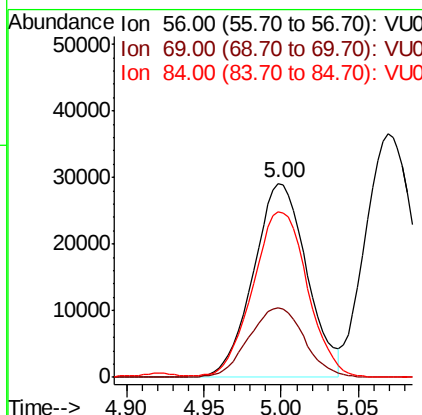
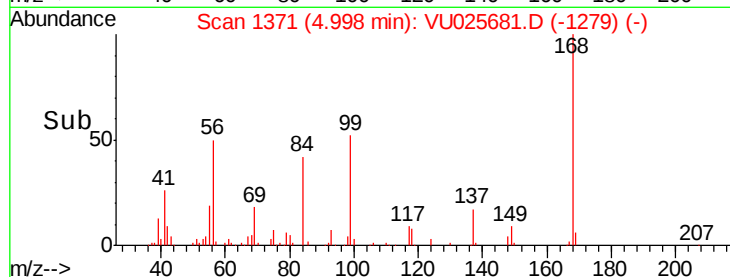
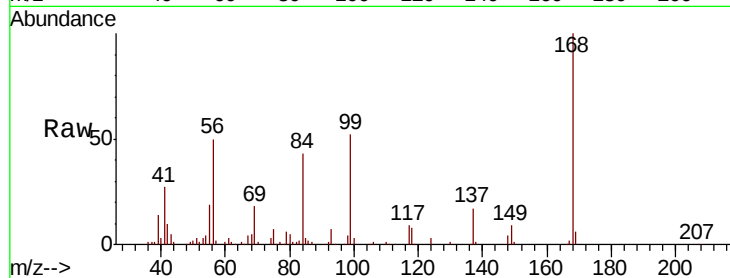
ClientSampleId :

VU0727MBSD01

Tot Ion:	56	Resp:	70015
Ion Ratio	Lower	Upper	
56	100		
69	35.5	26.8	40.2
84	83.9	69.7	104.5

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 20.47 ug/l

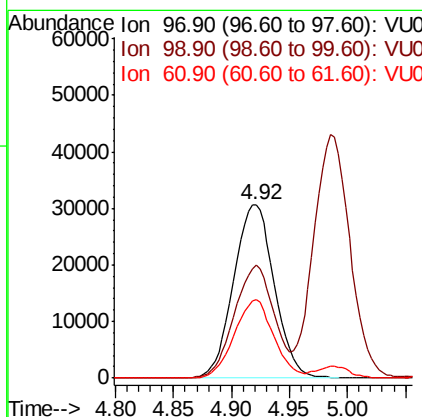
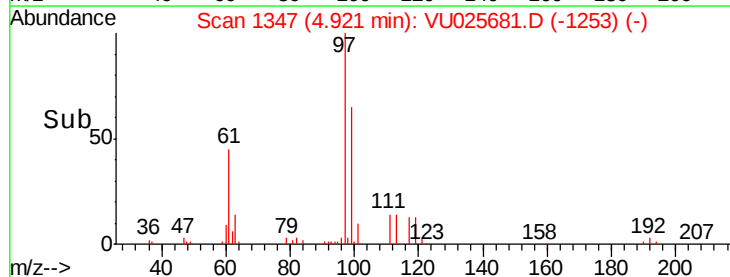
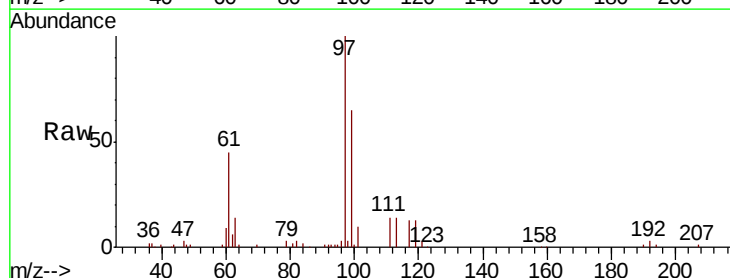
RT: 4.92 min Scan# 1347

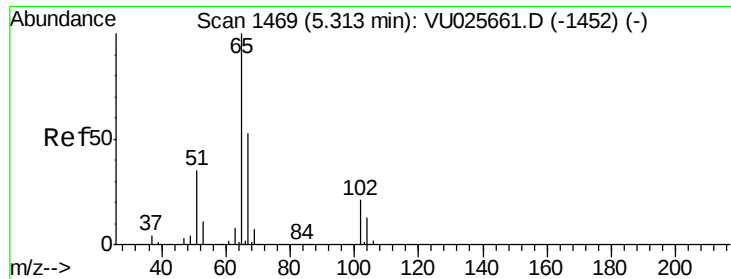
Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion:	97	Resp:	74668
Ion Ratio	Lower	Upper	
97	100		
99	63.5	50.8	76.2
61	43.9	35.2	52.8





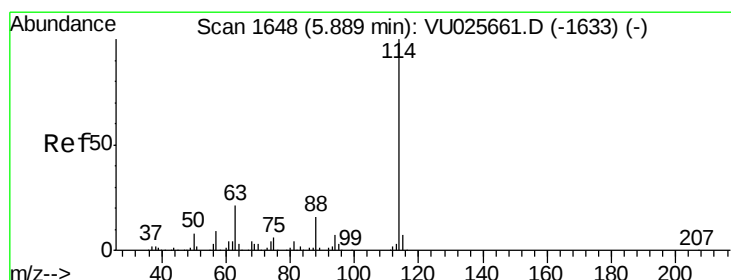
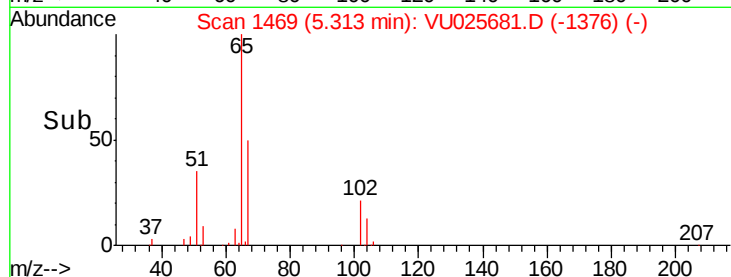
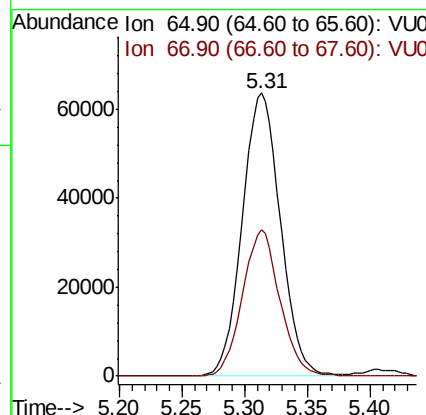
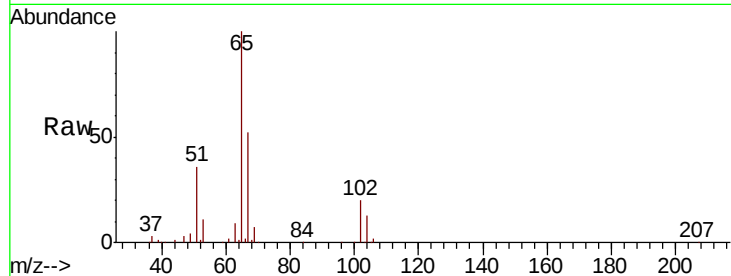
#33
 1,2-Dichloroethane-d4
 Concen: 51.47 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	103.6

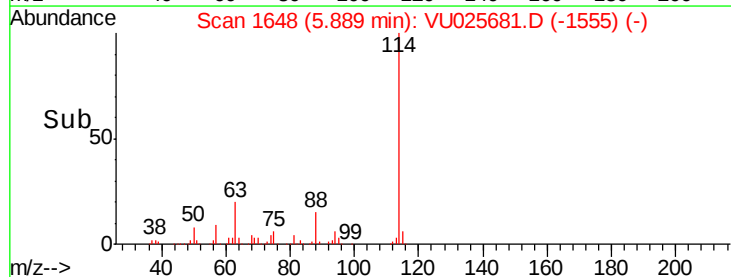
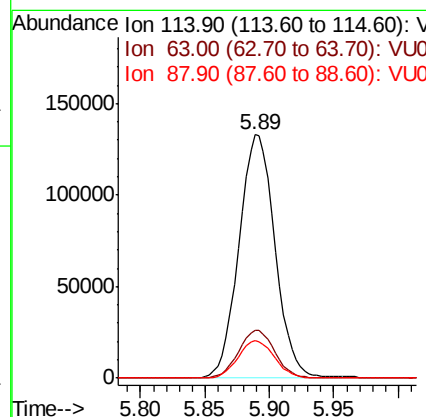
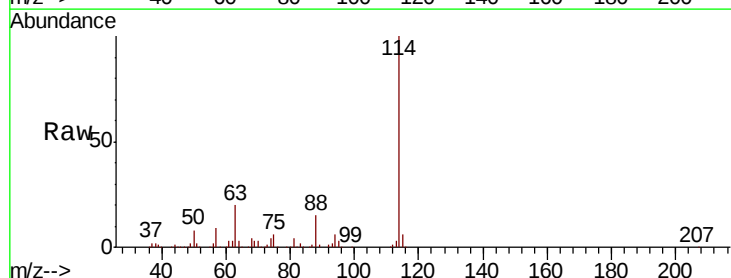
Manual Integrations
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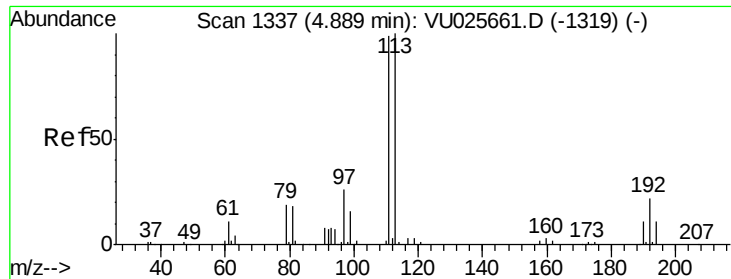
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	41.6
88	15.2	0.0	32.4





#35

Dibromofluoromethane

Concen: 48.36 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

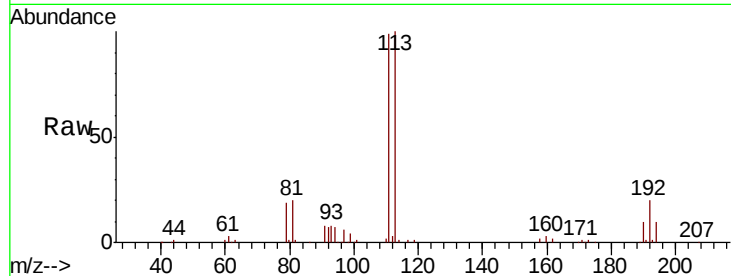
ClientSampleId :

VU0727MBSD01

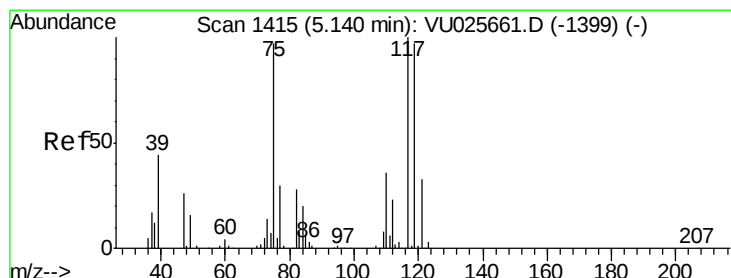
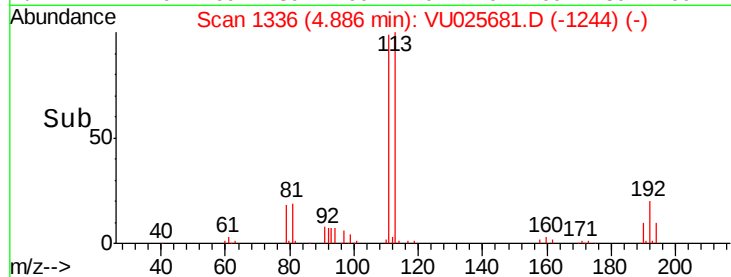
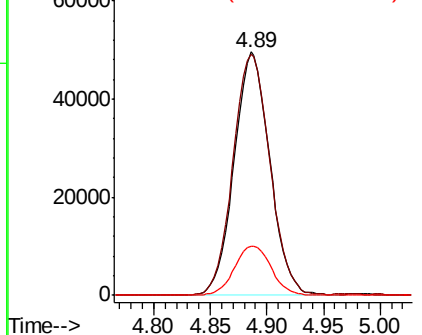
Tot Ion:	113	Resp:	108996
Ion Ratio	Lower	Upper	
113	100		
111	102.4	81.7	122.5
192	20.8	17.1	25.7

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Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 19.46 ug/l

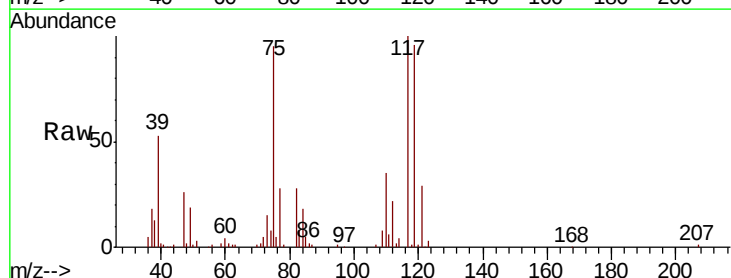
RT: 5.14 min Scan# 1415

Delta R.T. -0.00 min

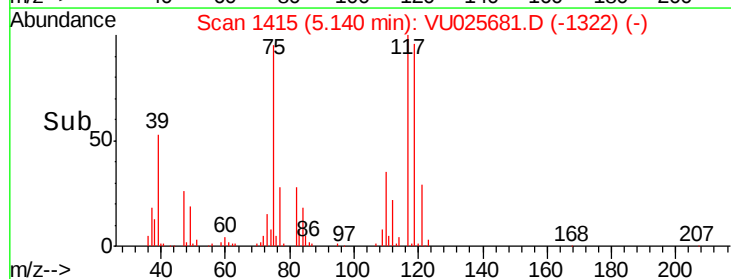
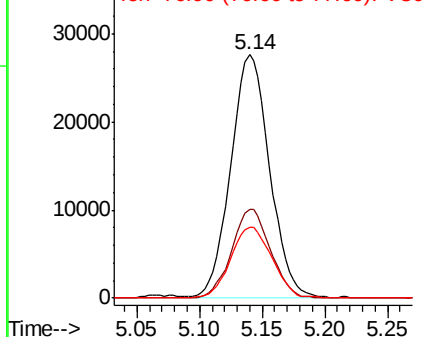
Lab File: VU025681.D

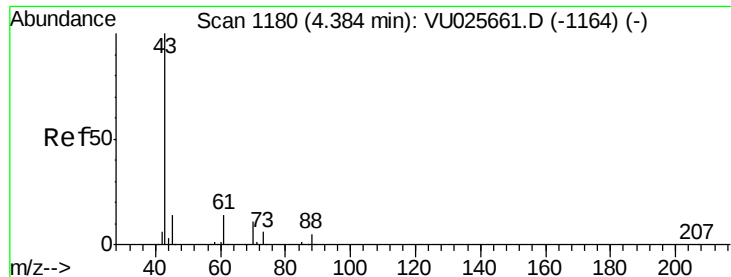
Acq: 27 Jul 2018 20:00

Tgt Ion:	75	Resp:	58937
Ion Ratio	Lower	Upper	
75	100		
110	36.6	17.6	52.9
77	31.3	24.4	36.6



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VU0





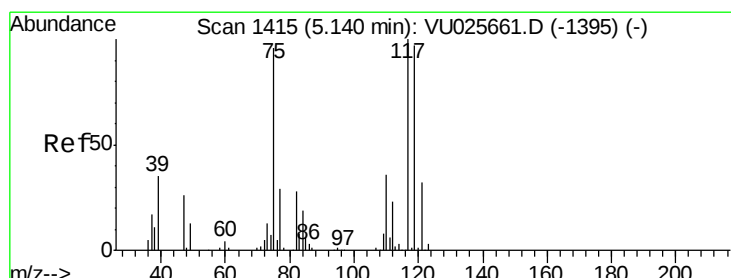
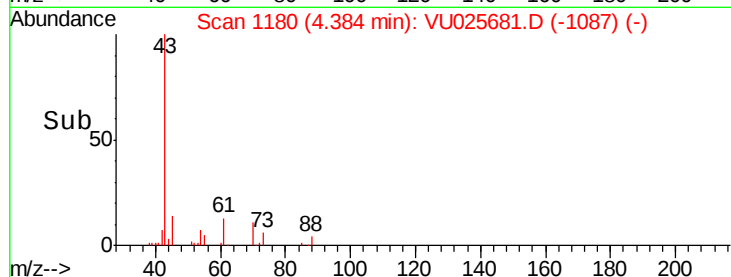
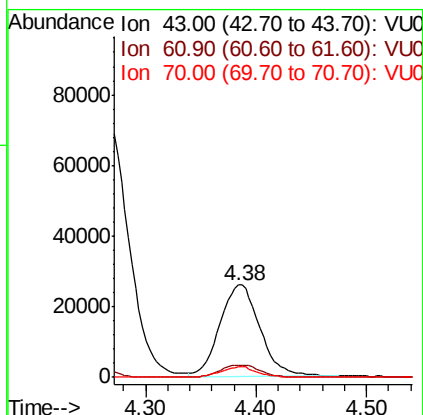
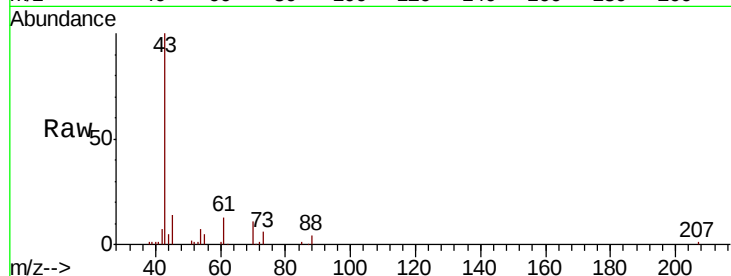
#37
Ethyl Acetate
Concen: 20.64 ug/l
RT: 4.38 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	10.7	16.1
70	10.5	8.4	12.6

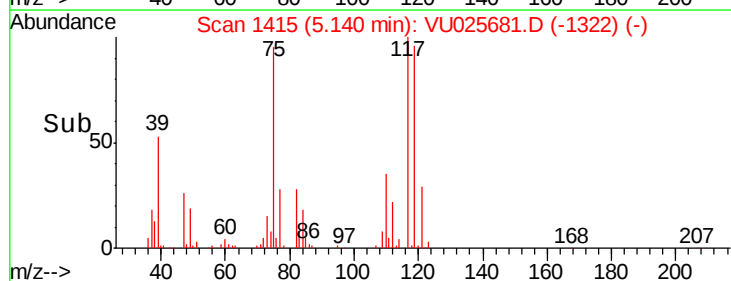
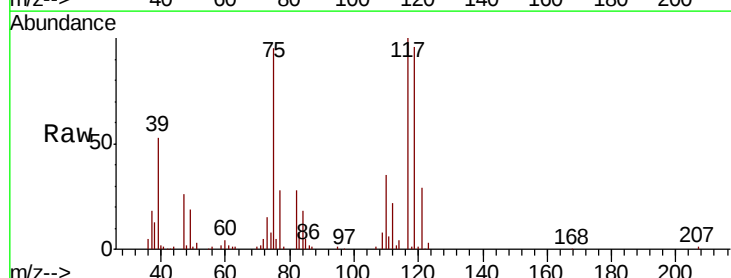
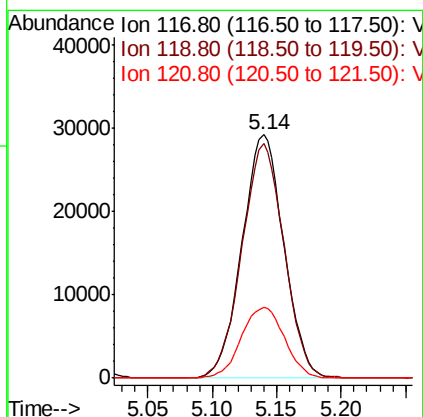
Manual Integrations
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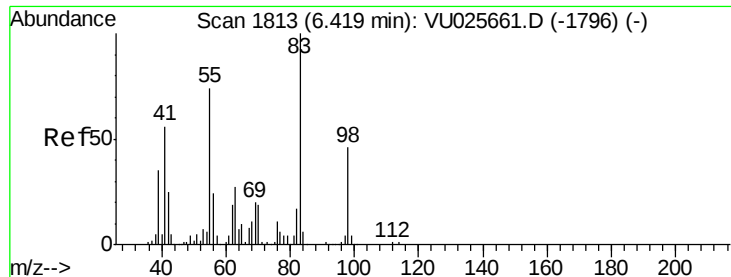
MMDadoda
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#38
Carbon Tetrachloride
Concen: 19.25 ug/l
RT: 5.14 min Scan# 1415
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.3	75.7	113.5
121	29.0	24.6	36.8





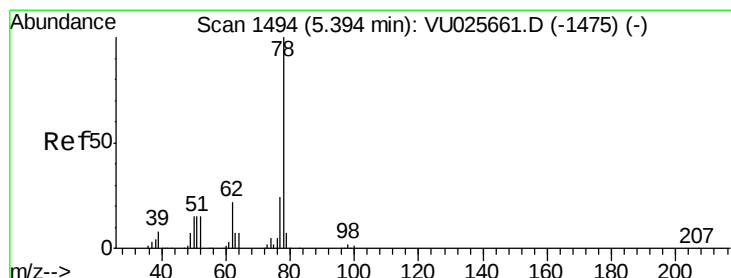
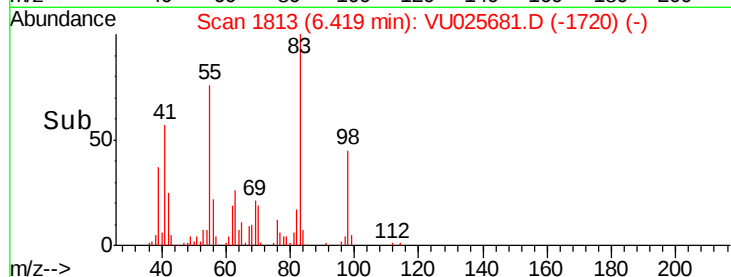
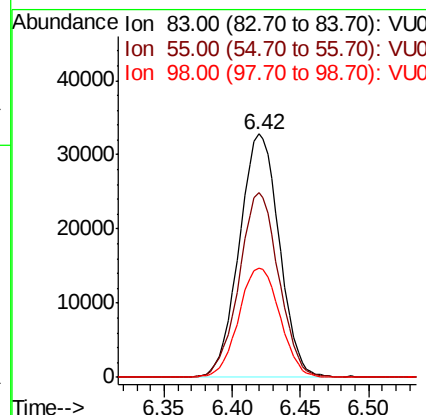
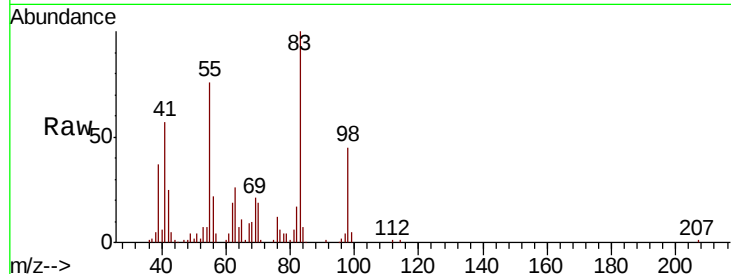
#39
Methylvlcyclohexane
Concen: 19.26 ug/l
RT: 6.42 min Scan# 1813
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.0	90.0
98	45.0	36.1	54.1

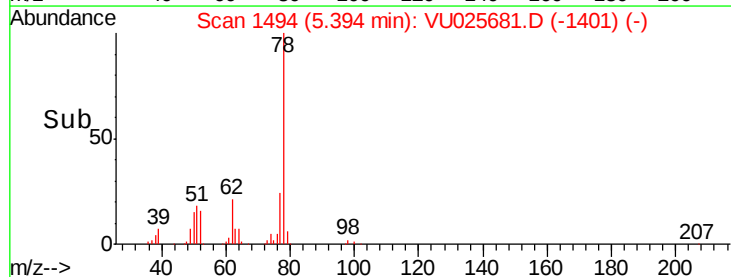
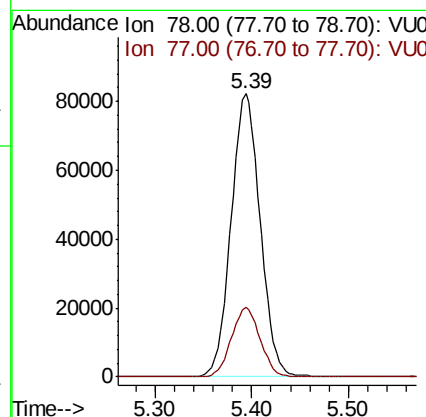
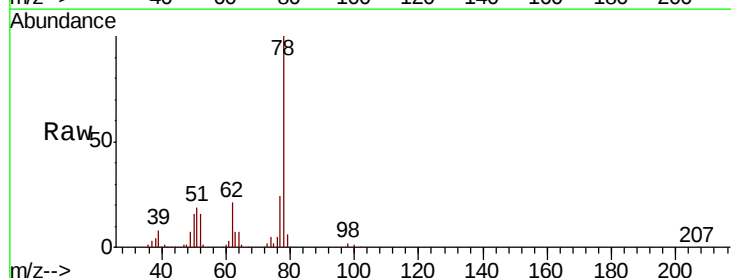
Manual Integrations
APPROVED

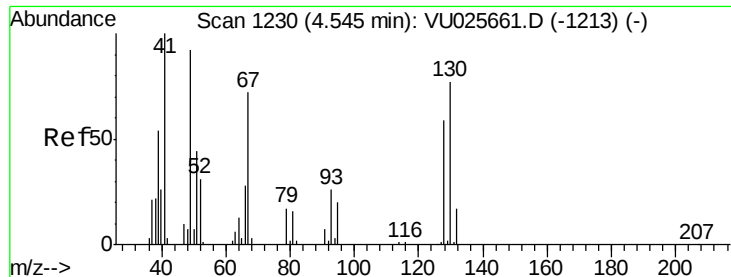
MMDadoda
7/31/2018 3:49:37 PM



#40
Benzene
Concen: 19.41 ug/l
RT: 5.39 min Scan# 1494
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.8	29.6





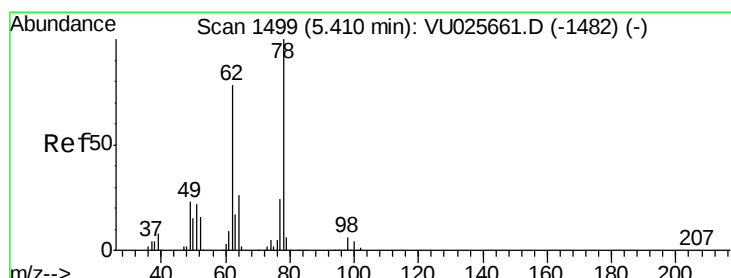
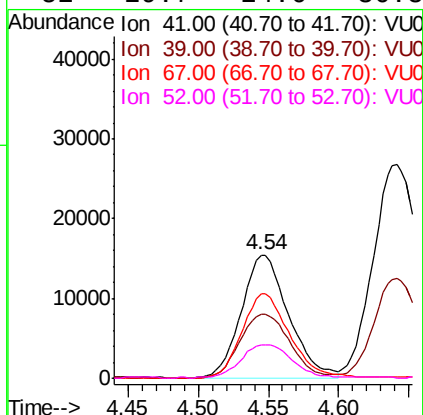
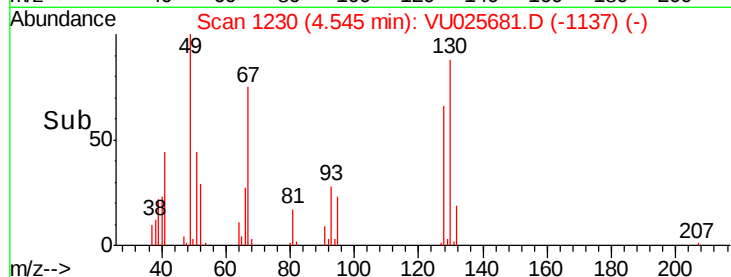
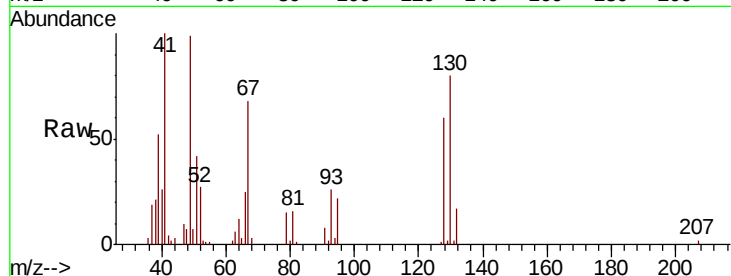
#41
Methacrylonitrile
Concen: 20.84 ug/l
RT: 4.54 min Scan# 1230
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.4	44.4	66.6	
67	69.3	56.0	84.0	
52	29.7	24.6	36.8	

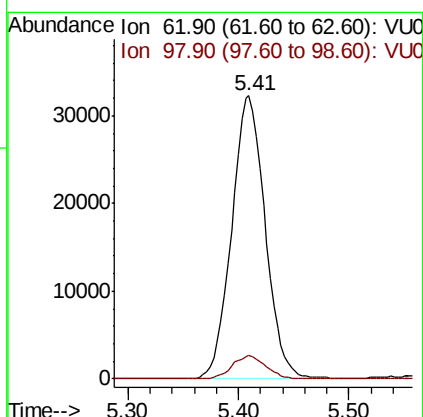
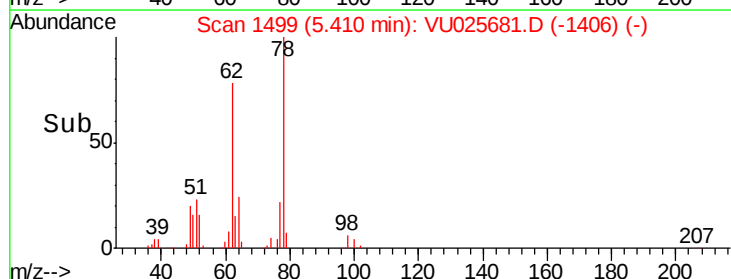
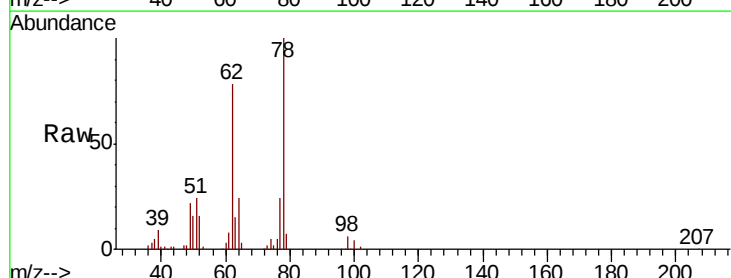
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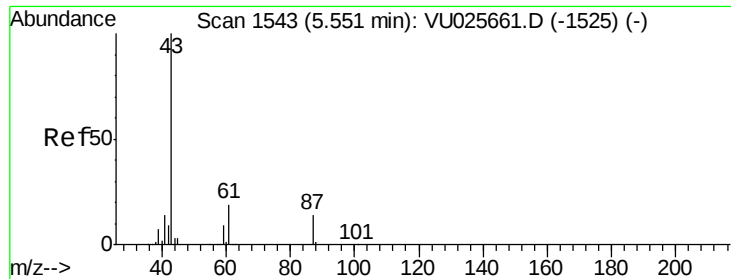
MMDadoda
7/31/2018 3:49:37 PM



#42
1,2-Dichloroethane
Concen: 19.91 ug/l
RT: 5.41 min Scan# 1499
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.2	0.0	16.4	





#43

Isopropyl Acetate

Concen: 20.24 ug/l

RT: 5.55 min Scan# 1543

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

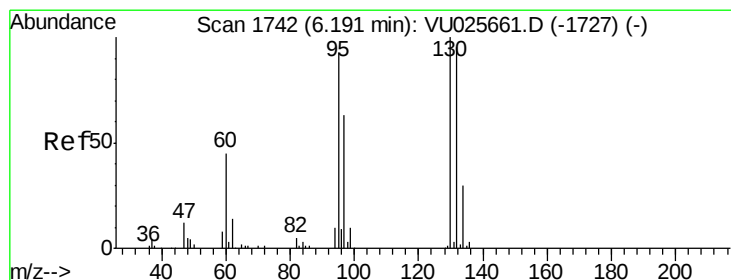
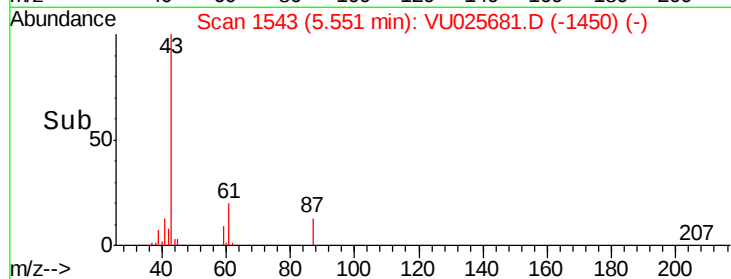
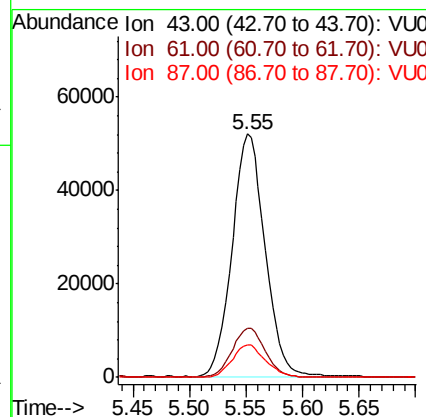
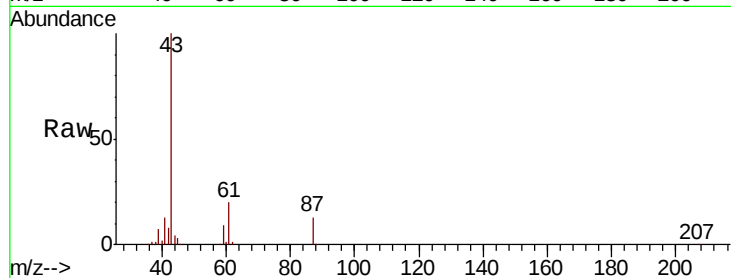
ClientSampleId :

VU0727MBSD01

Tot Ion:	43	Resp:	105022
Ion	Ratio	Lower	Upper
43	100		
61	20.3	15.5	23.3
87	13.5	10.6	16.0

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#44

Trichloroethene

Concen: 19.24 ug/l

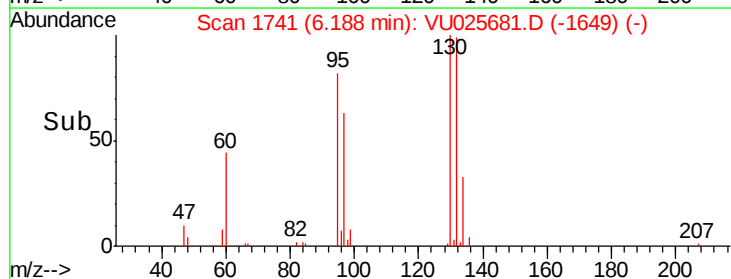
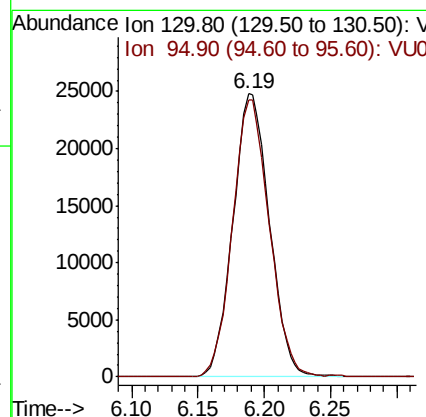
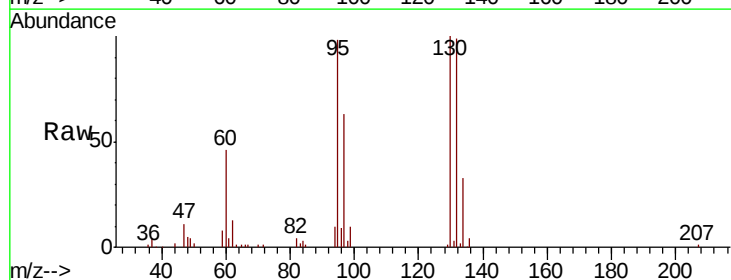
RT: 6.19 min Scan# 1741

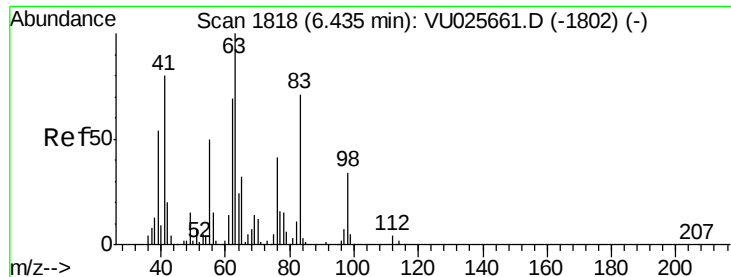
Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion:	130	Resp:	47427
Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	192.2





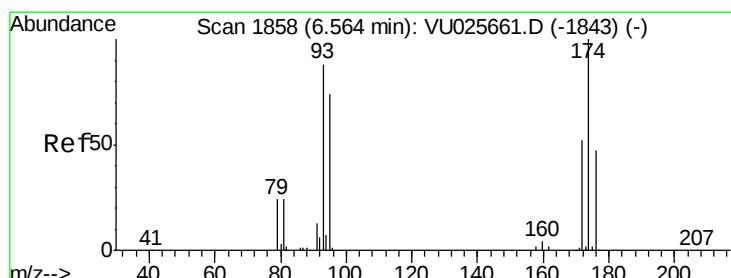
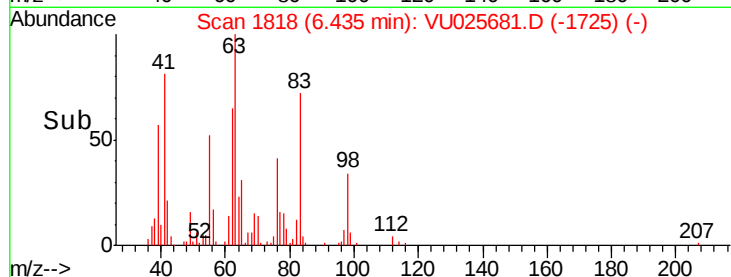
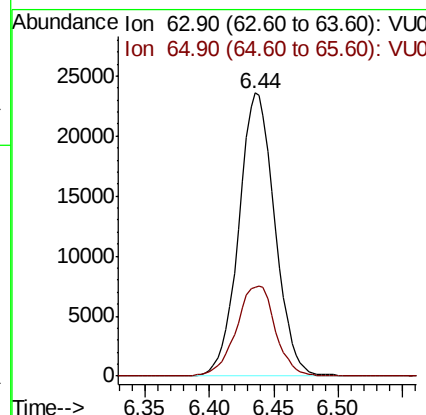
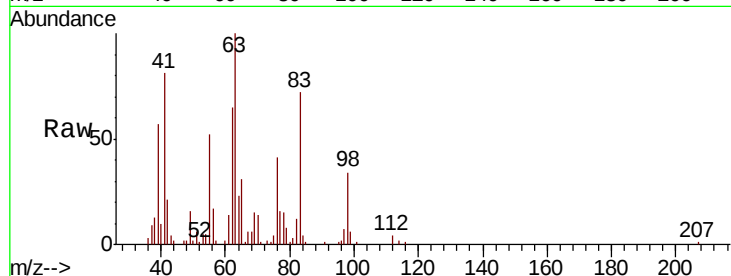
#45
 1,2-Dichloropropane
 Concen: 19.82 ug/l
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Instrument :
 MSVOA_U
 ClientSampled :
 VU0727MBSD01

Tot Ion: 63 Resp: 45757
 Ion Ratio Lower Upper
 63 100
 65 31.4 26.1 39.1

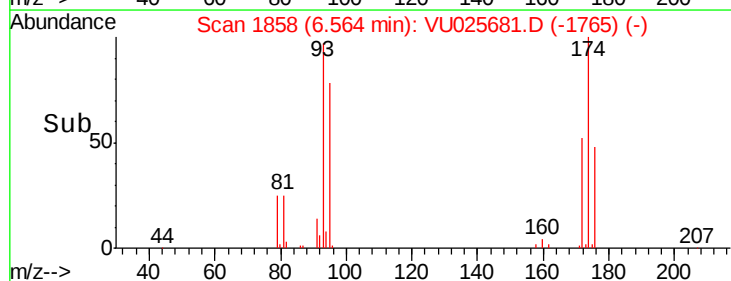
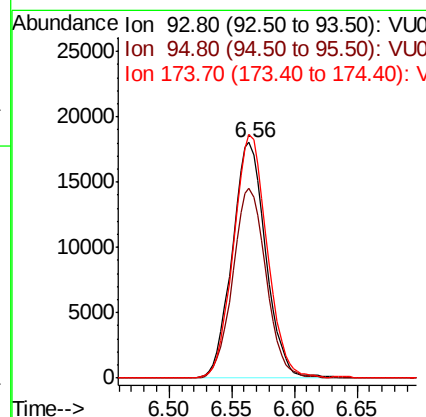
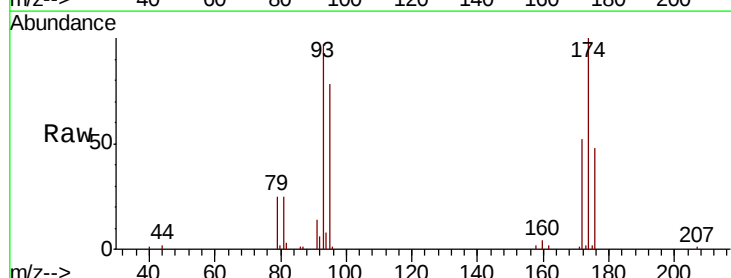
Manual Integrations
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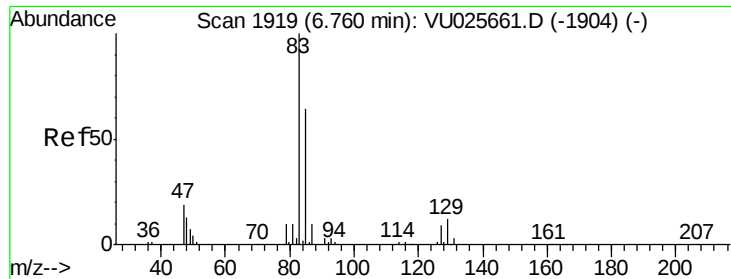
MMDadoda
 7/31/2018 3:49:37 PM



#46
 Dibromomethane
 Concen: 20.02 ug/l
 RT: 6.56 min Scan# 1858
 Delta R.T. 0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Tgt Ion: 93 Resp: 33492
 Ion Ratio Lower Upper
 93 100
 95 80.0 66.6 100.0
 174 103.7 85.8 128.8





#47

Bromodichloromethane

Concen: 19.31 ug/l

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

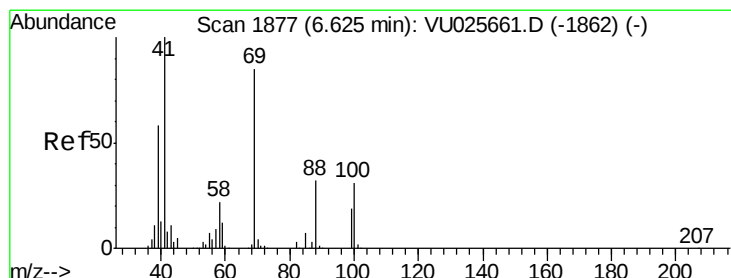
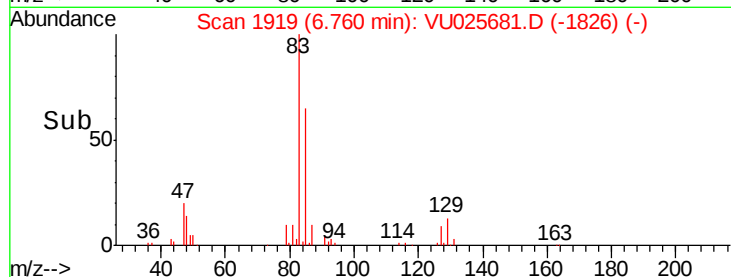
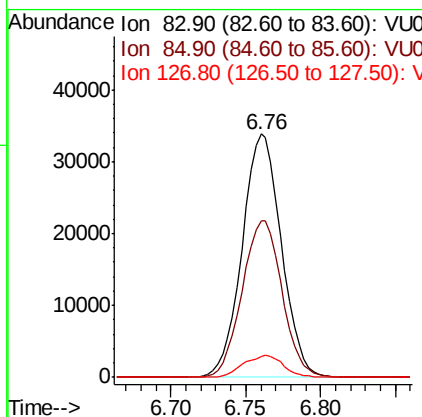
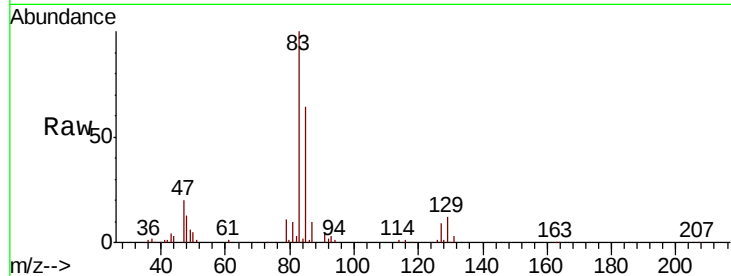
ClientSampleId :

VU0727MBSD01

Tot Ion:	83	Resp:	61613
Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.2	75.4
127	8.5	7.2	10.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.72 ug/l

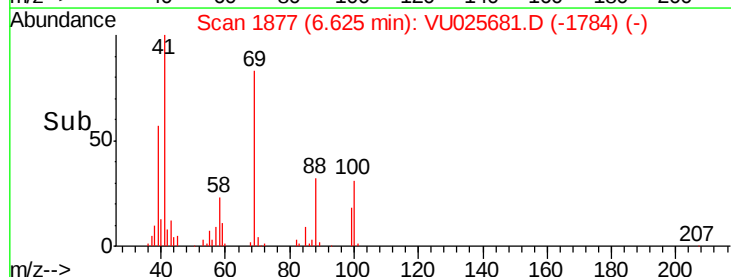
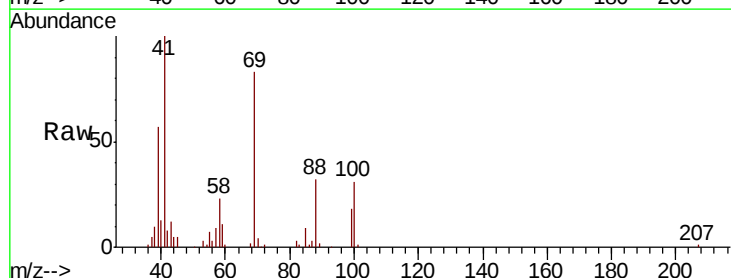
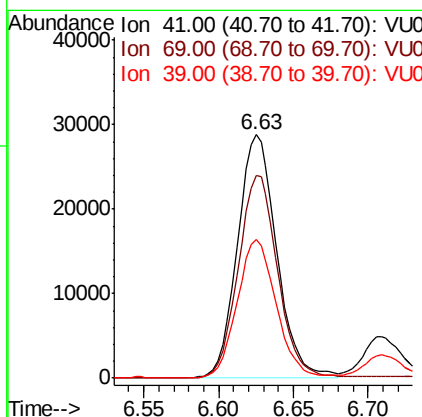
RT: 6.63 min Scan# 1877

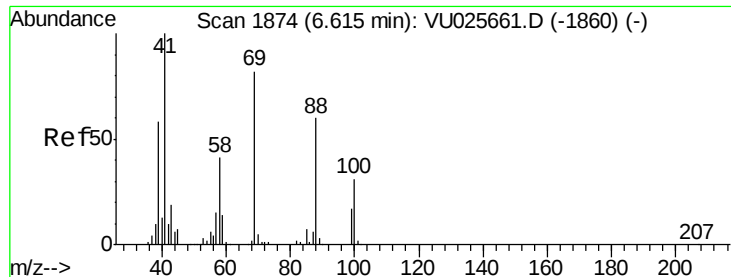
Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion:	41	Resp:	52685
Ion	Ratio	Lower	Upper
41	100		
69	83.4	65.0	97.4
39	56.9	46.4	69.6





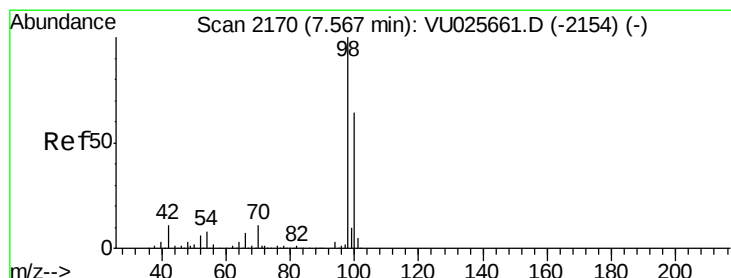
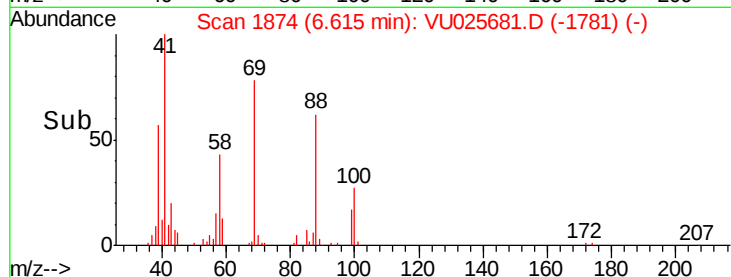
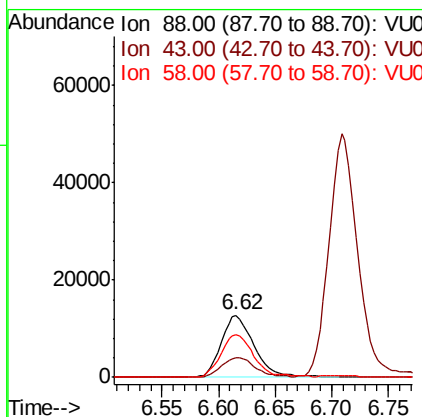
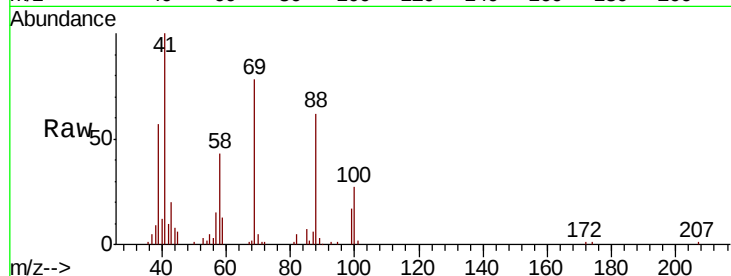
#49
1,4-Dioxane
Concen: 417.70 ug/l
RT: 6.62 min Scan# 1874
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.1	27.3	40.9
58	68.8	57.6	86.4

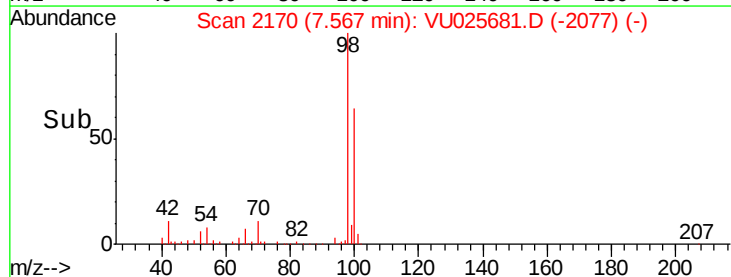
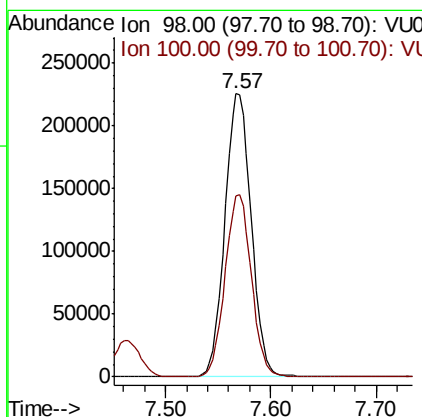
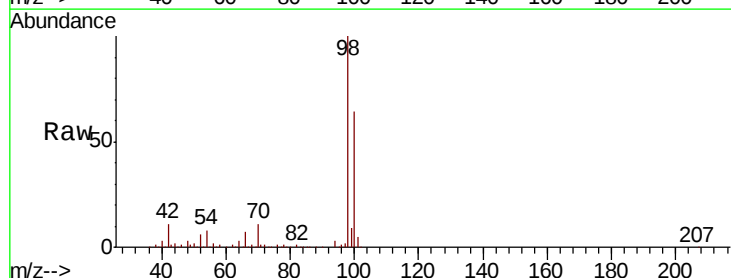
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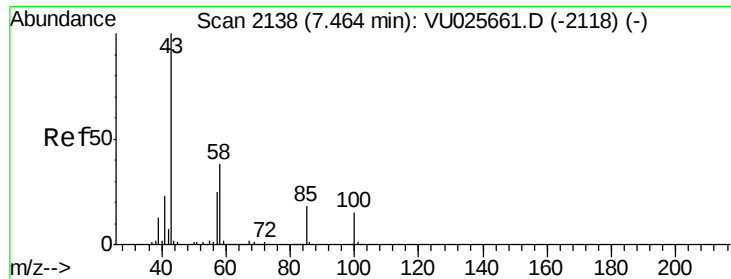
MMDadoda
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#50
Toluene-d8
Concen: 49.42 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 103.06 ug/l

RT: 7.46 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBS01

Tot Ion: 43 Resp: 334805

Ion Ratio Lower Upper

43 100

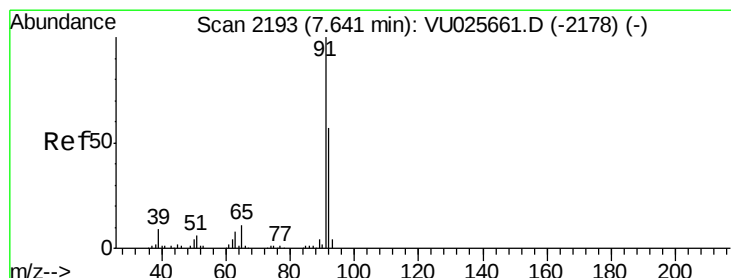
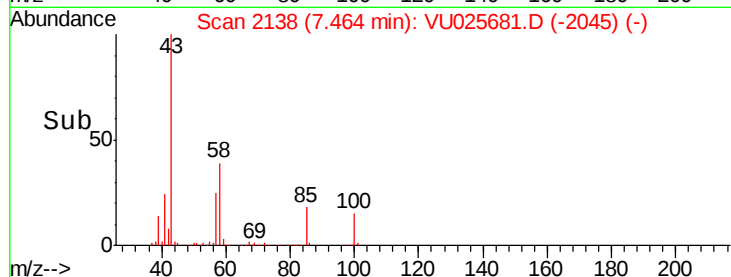
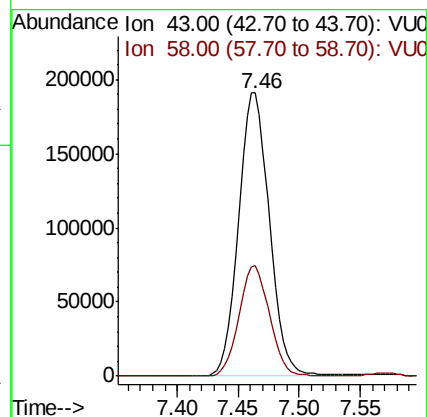
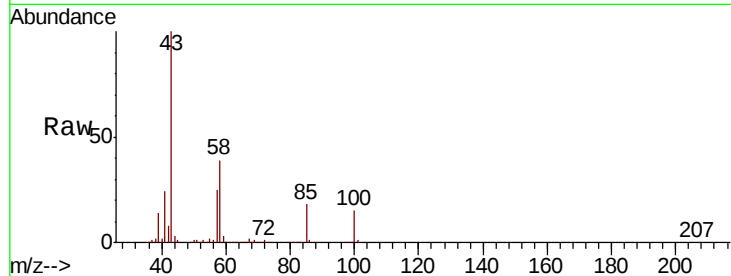
58 38.7 31.0 46.4

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#52

Toluene

Concen: 19.94 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025681.D

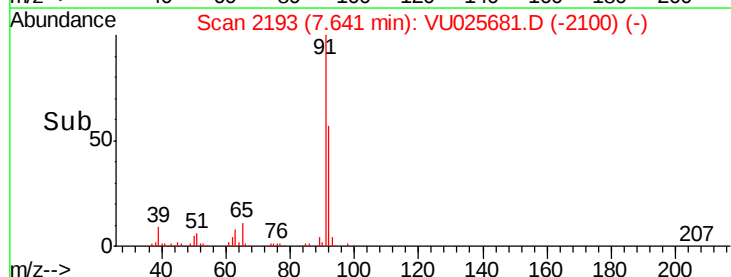
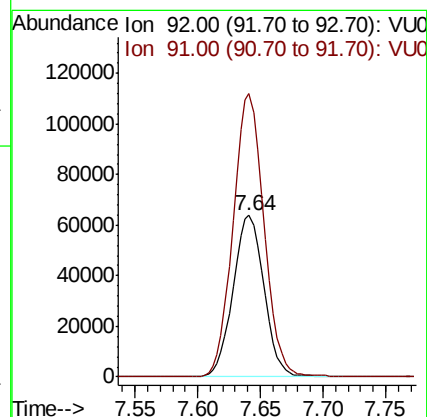
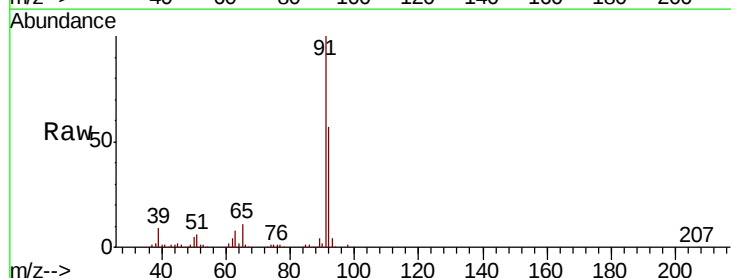
Acq: 27 Jul 2018 20:00

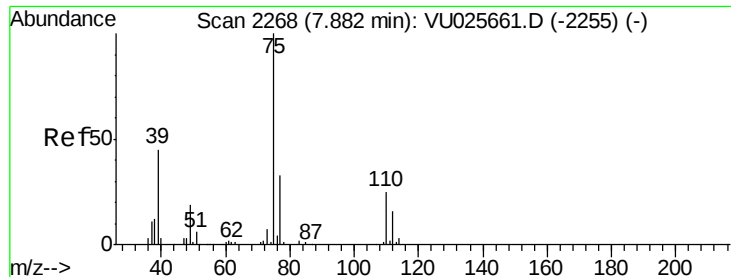
Tgt Ion: 92 Resp: 109675

Ion Ratio Lower Upper

92 100

91 174.6 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 19.43 ug/l

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion: 75 Resp: 69622

Ion Ratio Lower Upper

75 100

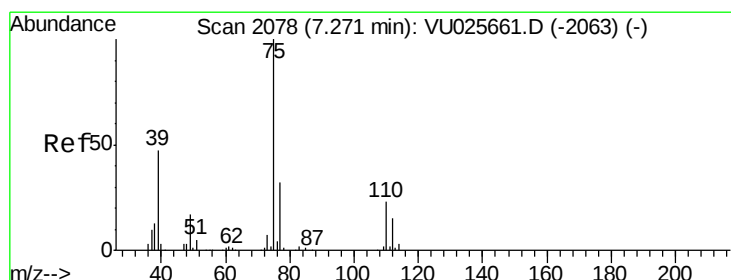
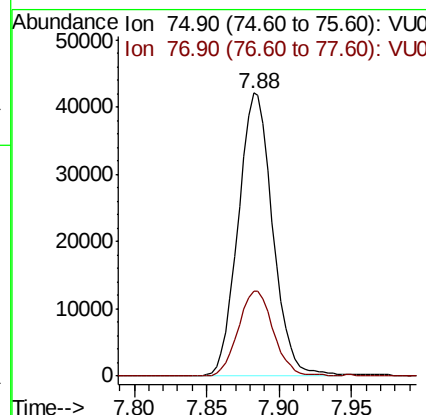
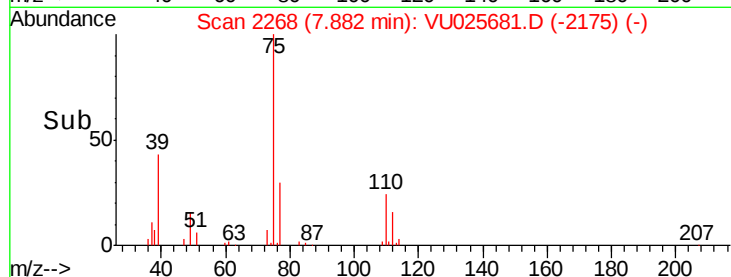
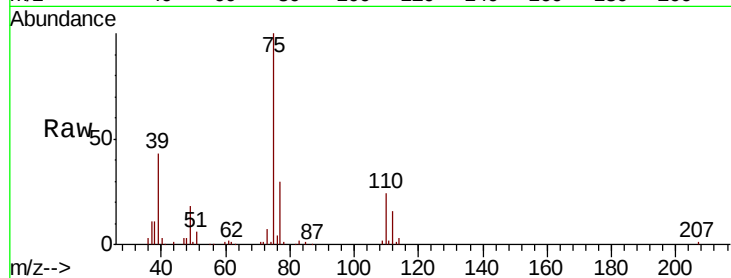
77 29.9 24.5 36.7

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 19.39 ug/l

RT: 7.27 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

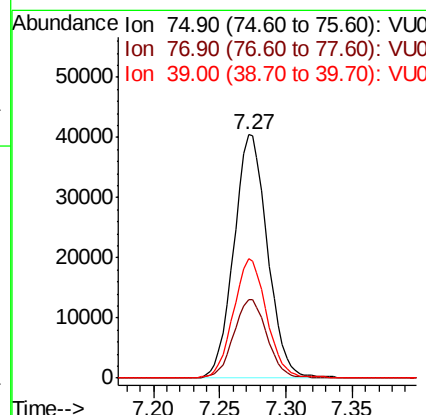
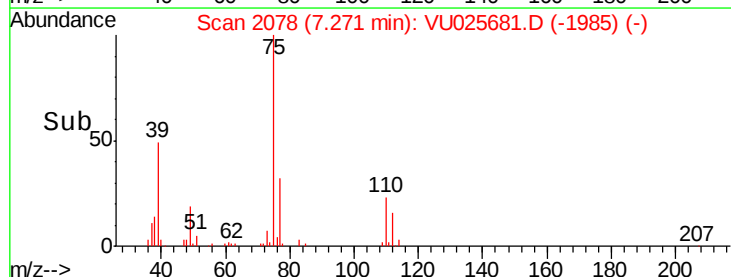
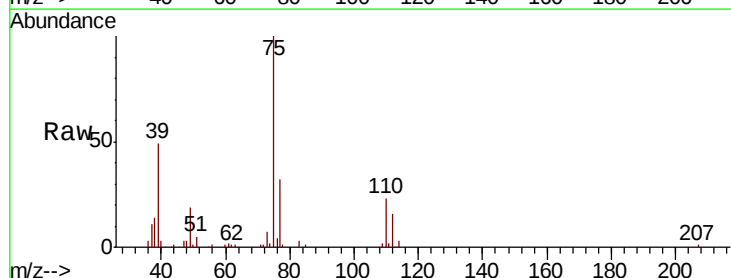
Tgt Ion: 75 Resp: 71360

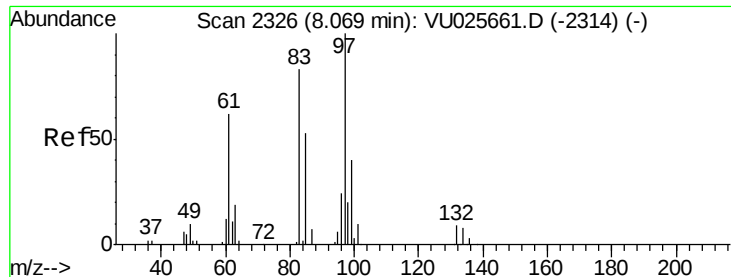
Ion Ratio Lower Upper

75 100

77 32.1 25.6 38.4

39 48.8 40.0 60.0





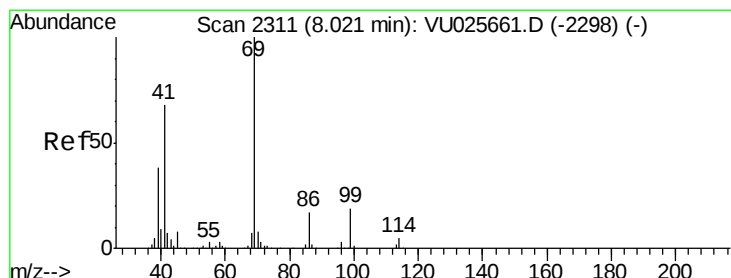
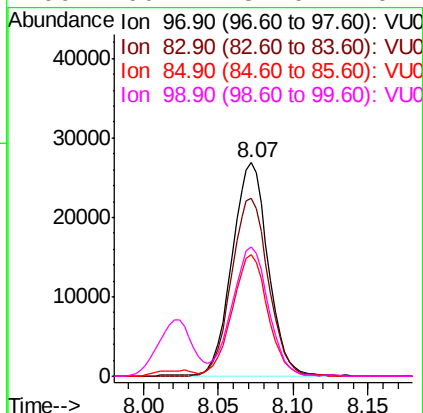
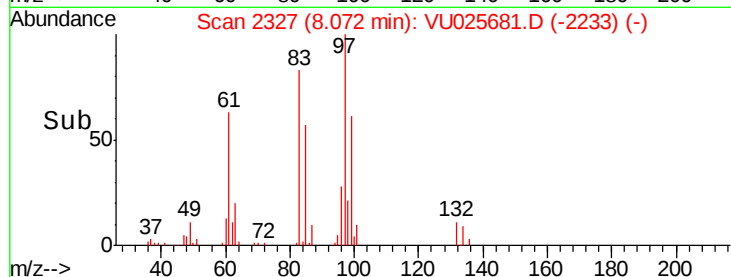
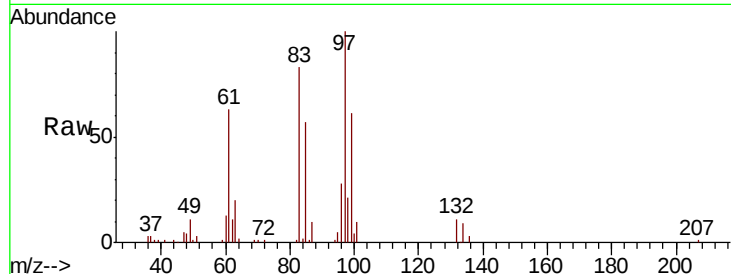
#55
 1,1,2-Trichloroethane
 Concen: 19.76 ug/l
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727MBSD01

Tot Ion:	97	Resp:	45160
Ion	Ratio	Lower	Upper
97	100		
83	83.5	68.9	103.3
85	56.7	44.4	66.6
99	60.2	51.0	76.4

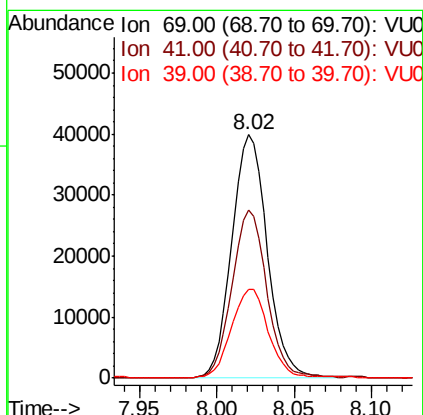
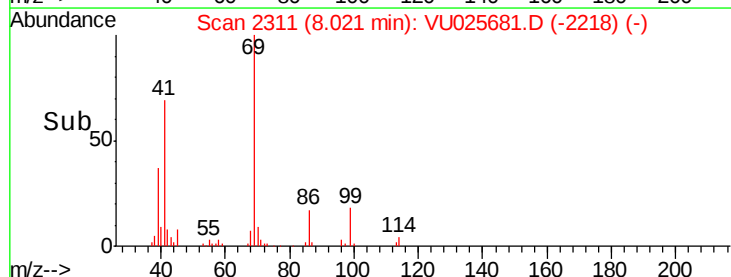
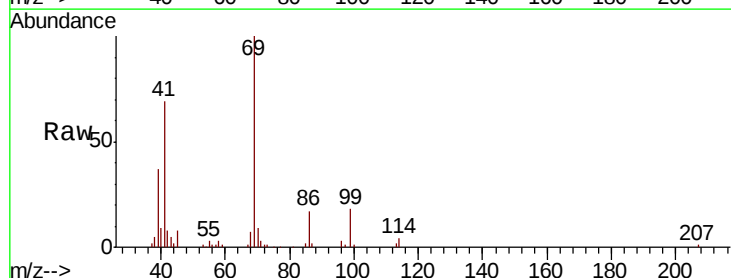
Manual Integrations
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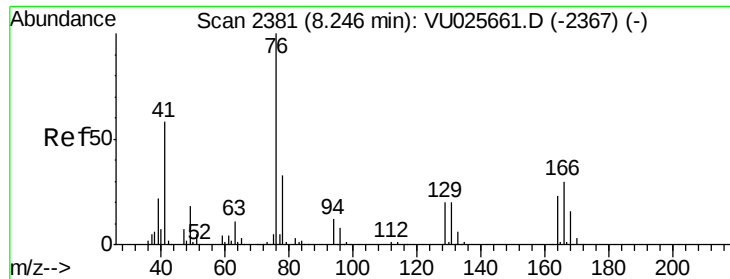
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#56
 Ethyl methacrylate
 Concen: 19.46 ug/l
 RT: 8.02 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Tgt Ion:	69	Resp:	63544
Ion	Ratio	Lower	Upper
69	100		
41	67.9	54.8	82.2
39	38.1	31.1	46.7





#57

1,3-Dichloropropane

Concen: 19.73 ug/l

RT: 8.25 min Scan# 2381

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion: 76 Resp: 75851

Ion Ratio Lower Upper

76 100

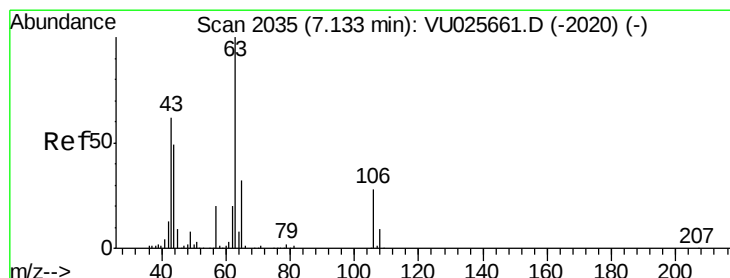
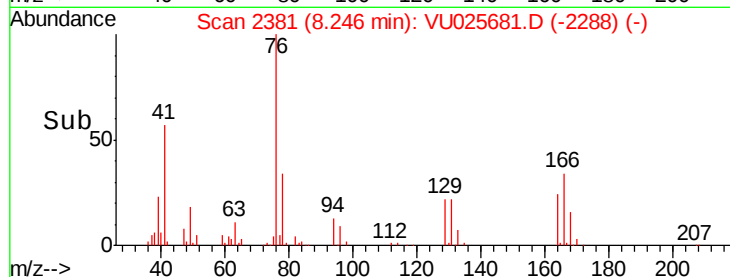
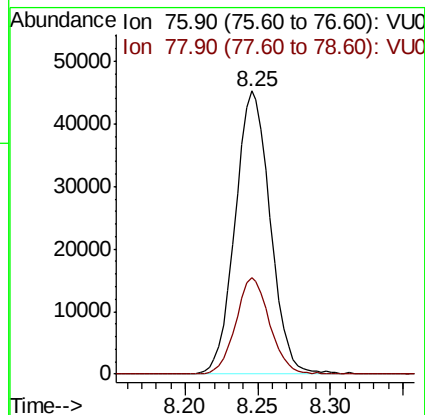
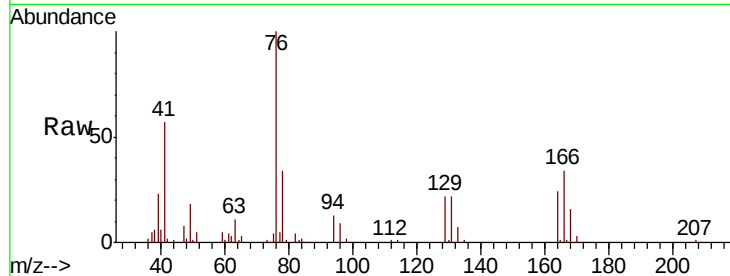
78 32.8 26.1 39.1

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 94.06 ug/l

RT: 7.13 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU025681.D

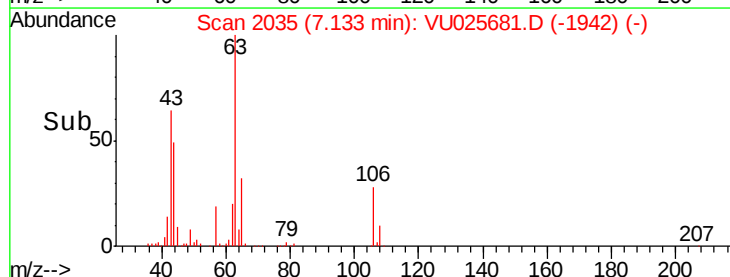
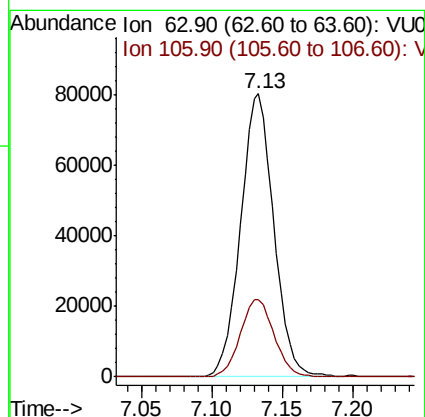
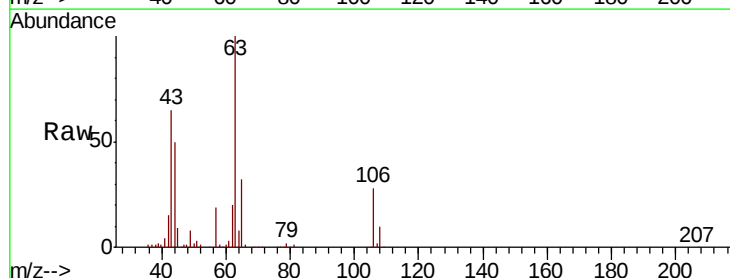
Acq: 27 Jul 2018 20:00

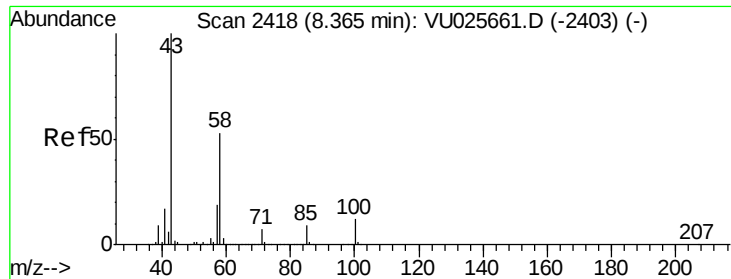
Tgt Ion: 63 Resp: 132365

Ion Ratio Lower Upper

63 100

106 28.1 22.3 33.5





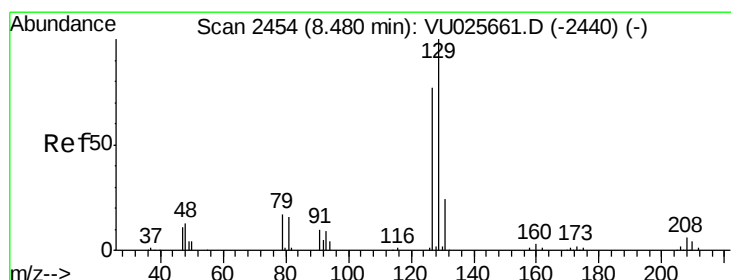
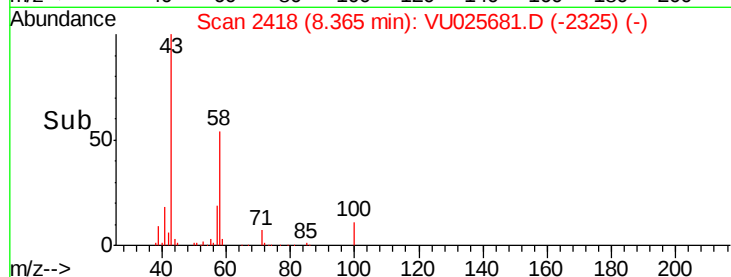
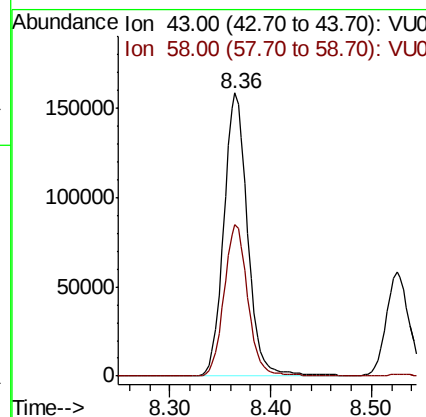
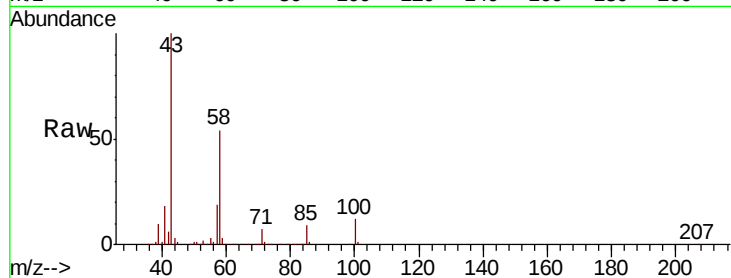
#59
2-Hexanone
Concen: 102.86 ug/l
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	43	Resp	261934
Ion Ratio	43	100	
Lower	58	53.6	26.2
Upper			78.5

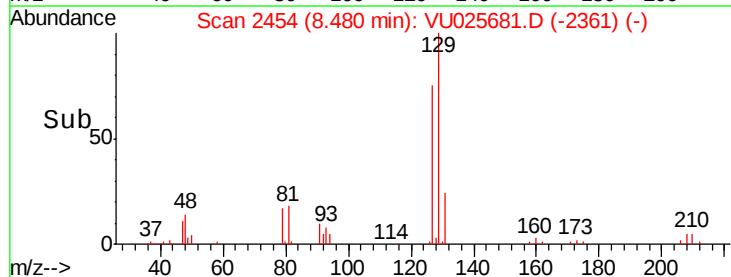
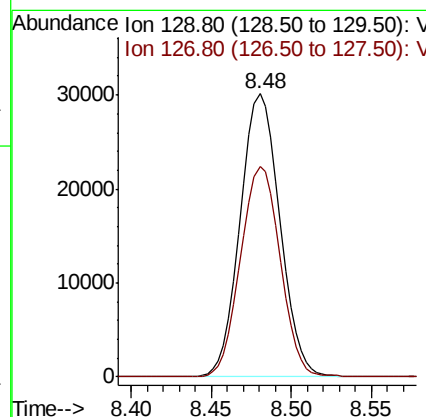
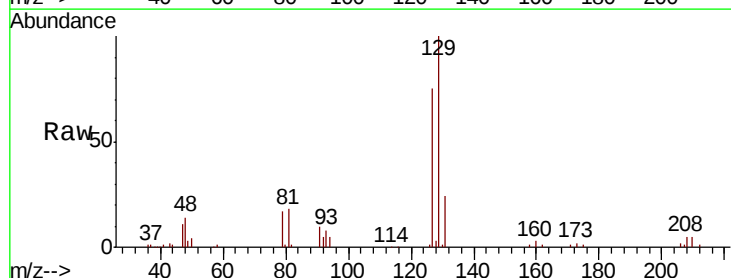
Manual Integrations
APPROVED

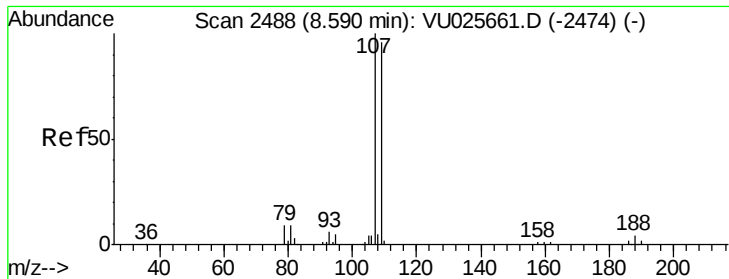
MMDadoda
7/31/2018 3:49:37 PM



#60
Dibromochloromethane
Concen: 18.90 ug/l
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	129	Resp	50931
Ion Ratio	129	100	
Lower	127	74.5	38.6
Upper			115.8





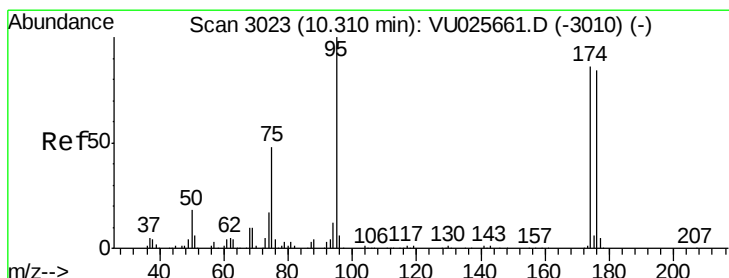
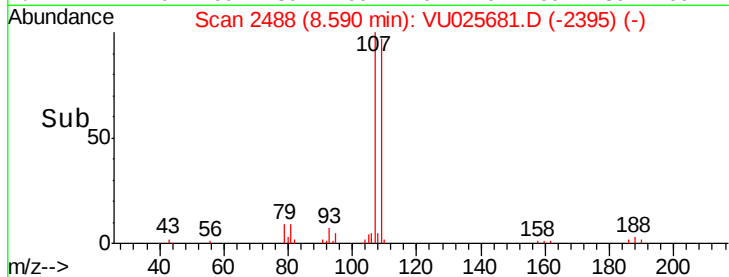
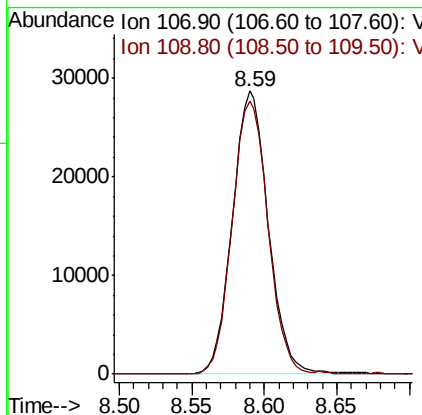
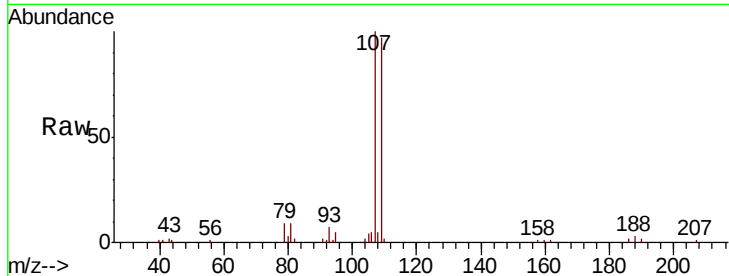
#61
 1,2-Dibromoethane
 Concen: 19.40 ug/l
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.6	75.8	113.8

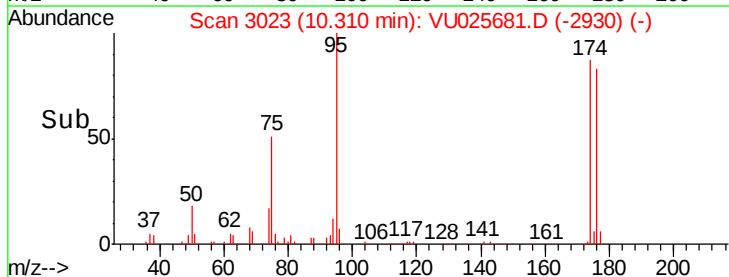
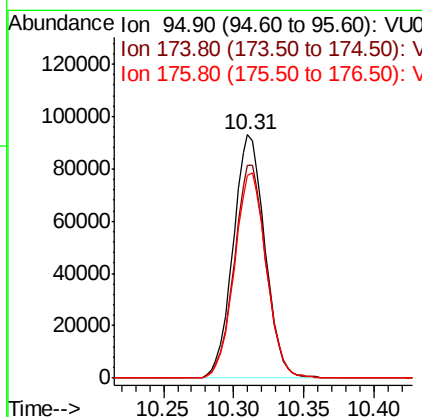
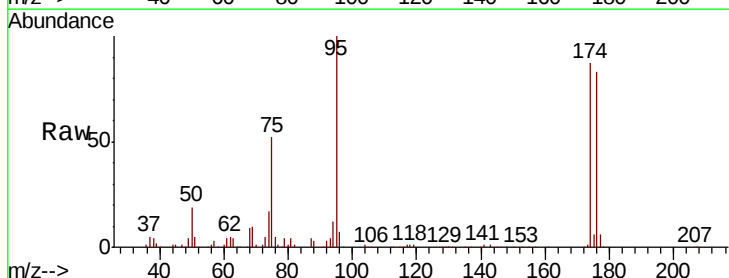
Manual Integrations
 APPROVED

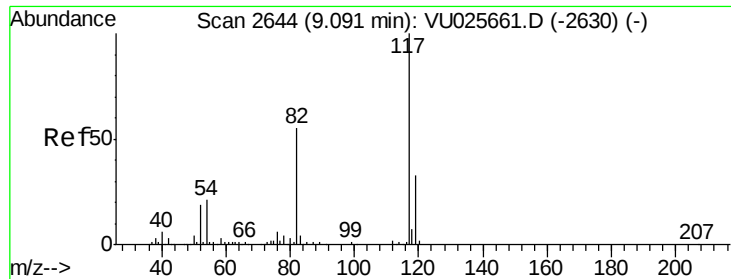
MMDadoda
 7/31/2018 3:49:37 PM



#62
 4-Bromofluorobenzene
 Concen: 48.02 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.6	0.0	172.2
176	84.8	0.0	162.6





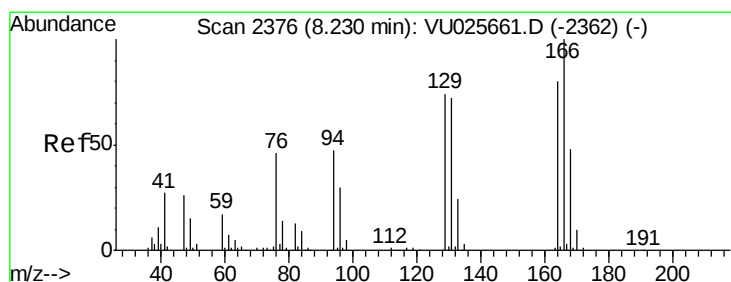
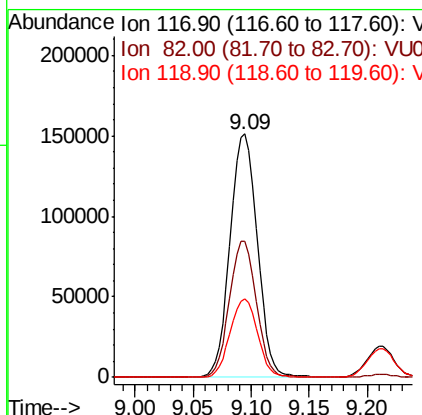
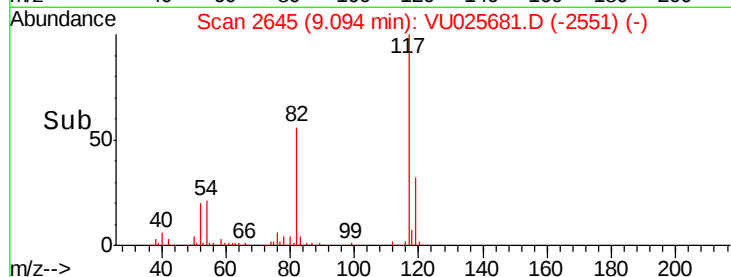
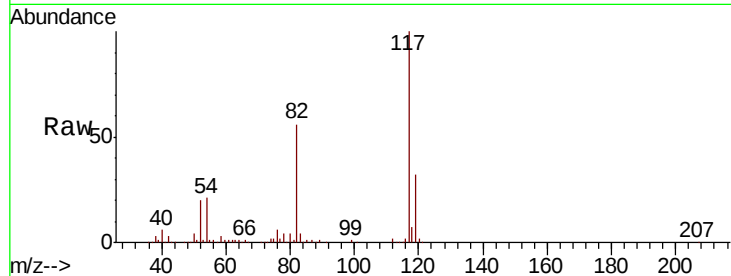
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	247579		
82	55.9	46.0	69.0	
119	32.2	26.0	39.0	

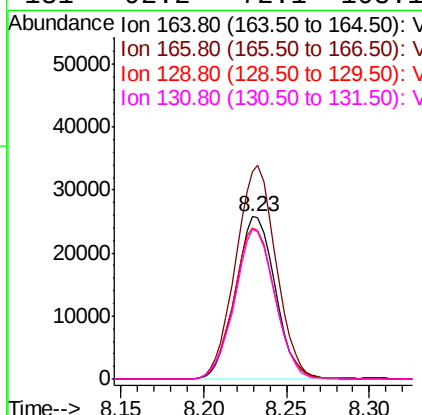
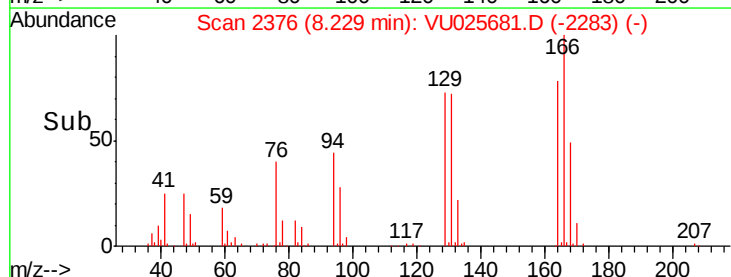
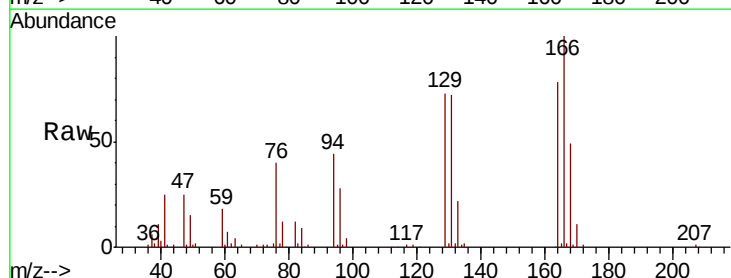
Manual Integrations
APPROVED

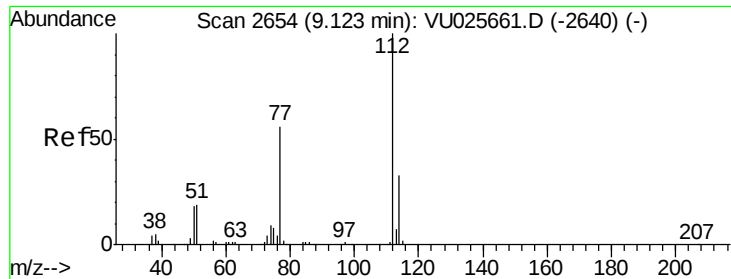
MMDadoda
7/31/2018 3:49:37 PM



#64
Tetrachloroethene
Concen: 19.87 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	43308		
166	127.9	101.1	151.7	
129	93.2	73.0	109.6	
131	92.2	72.1	108.1	





#65

Chlorobenzene

Concen: 19.62 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion:112 Resp: 125242

Ion Ratio Lower Upper

112 100

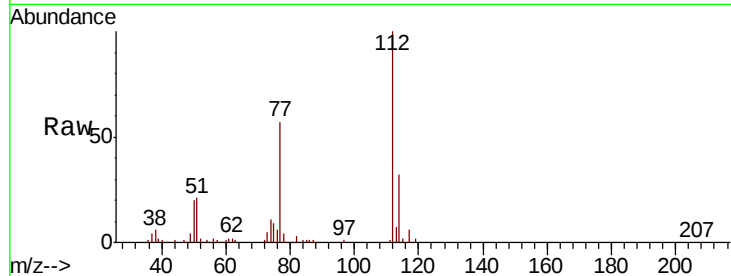
114 32.3 25.8 38.8

Manual Integrations

APPROVED

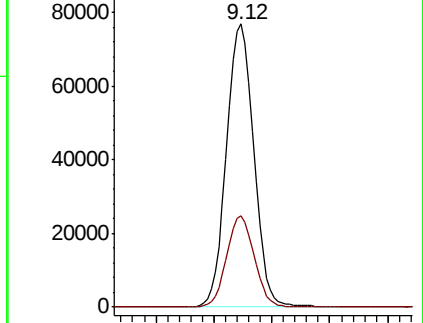
MMDadoda

7/31/2018 3:49:37 PM

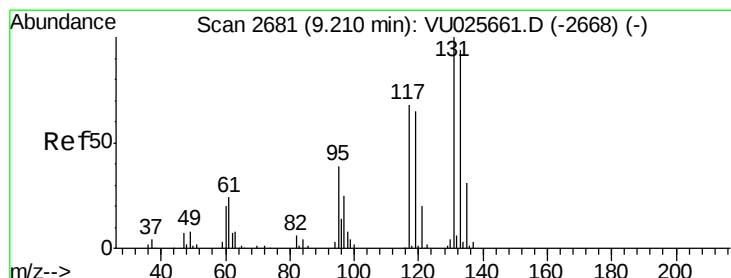
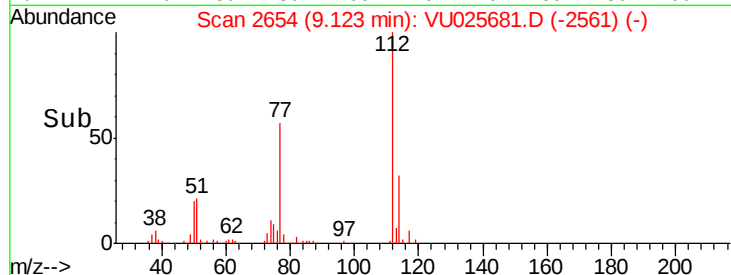


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 20.14 ug/l

RT: 9.21 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

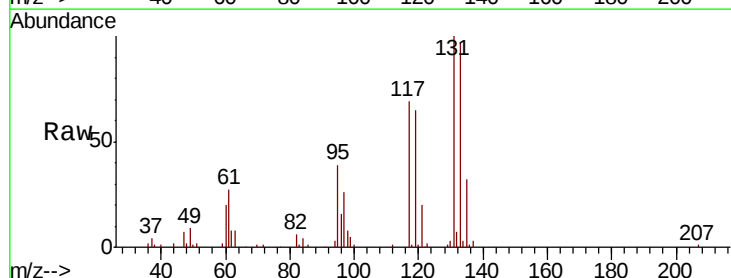
Tgt Ion:131 Resp: 46500

Ion Ratio Lower Upper

131 100

133 95.6 47.8 143.3

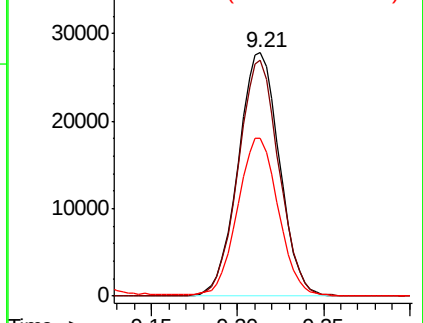
119 64.6 31.6 95.0



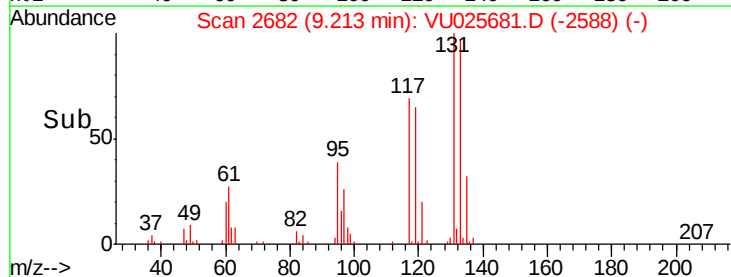
Abundance Ion 130.80 (130.50 to 131.50): V

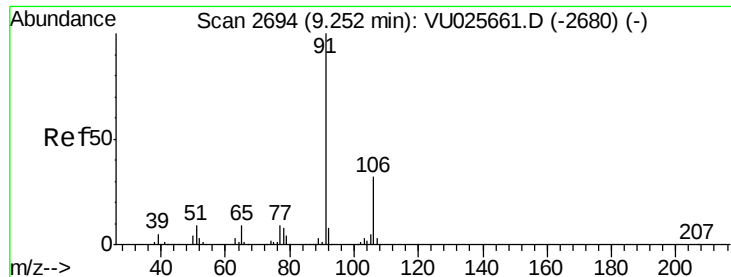
Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



Time-->





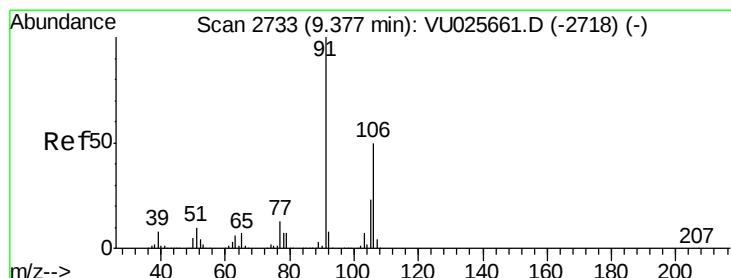
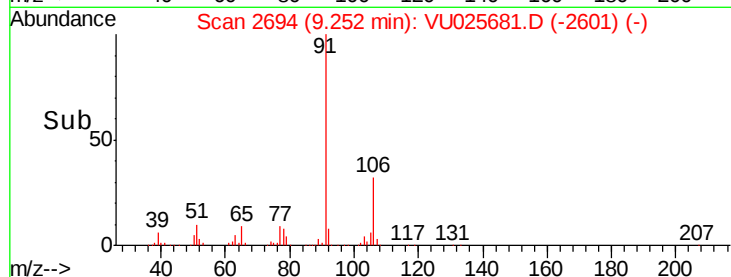
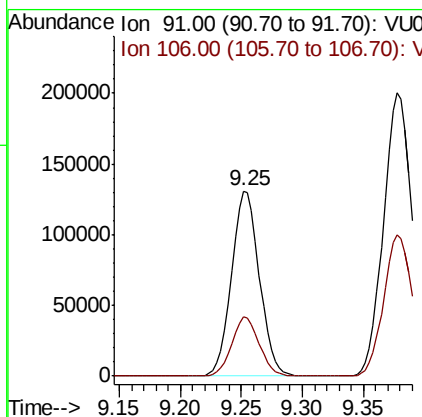
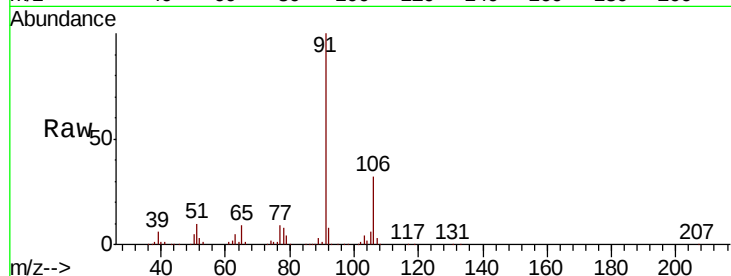
#67
Ethyl Benzene
Concen: 19.68 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.3	37.9

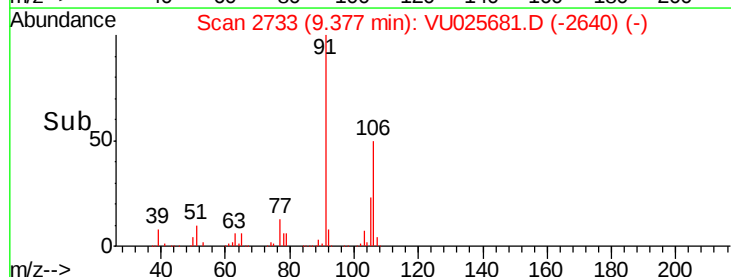
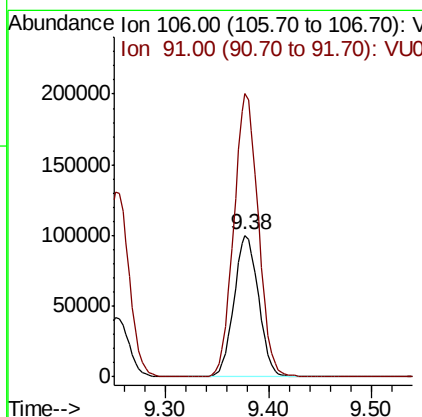
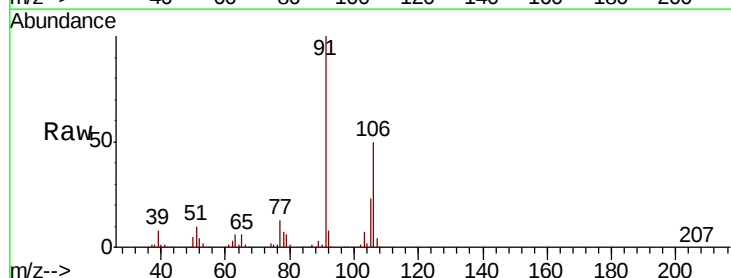
Manual Integrations
APPROVED

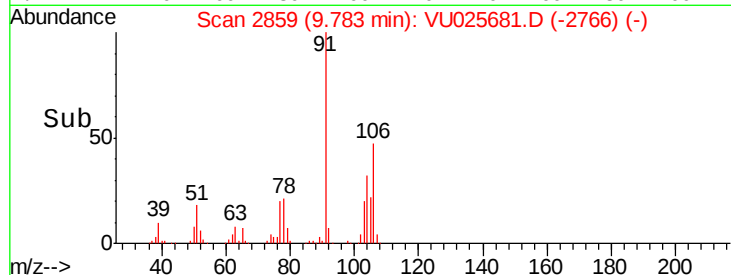
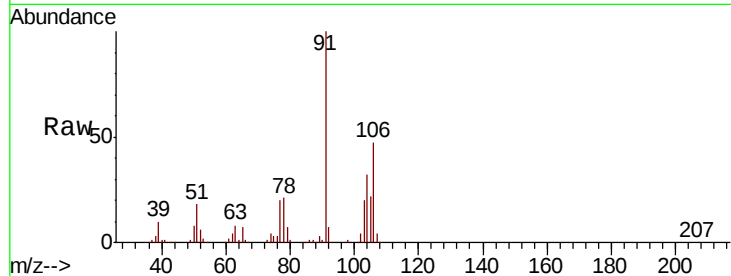
MMDadoda
7/31/2018 3:49:37 PM



#68
m/p-Xylenes
Concen: 41.02 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
106	100		
91	199.2	162.3	243.5





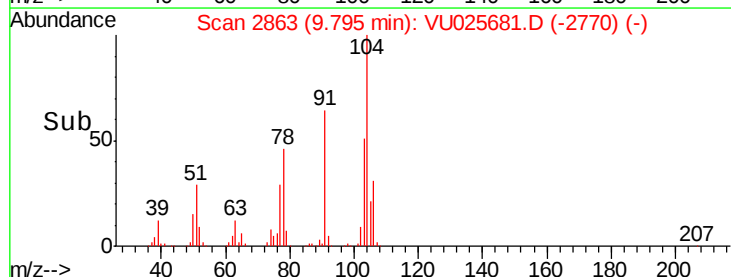
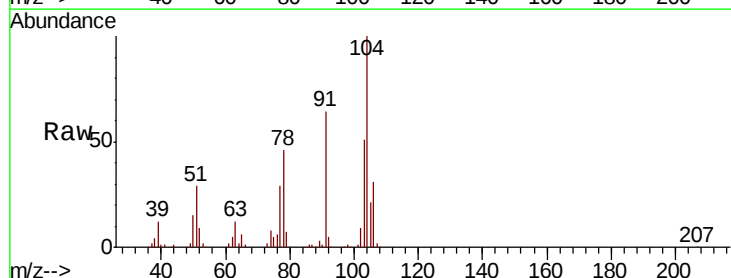
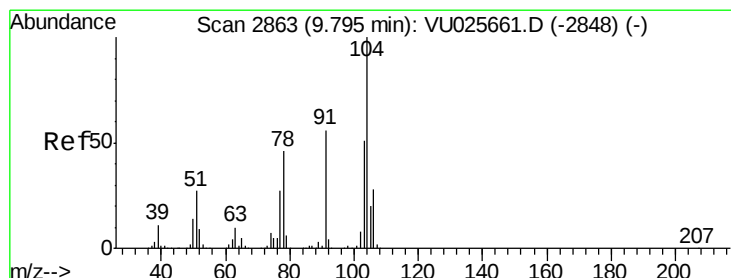
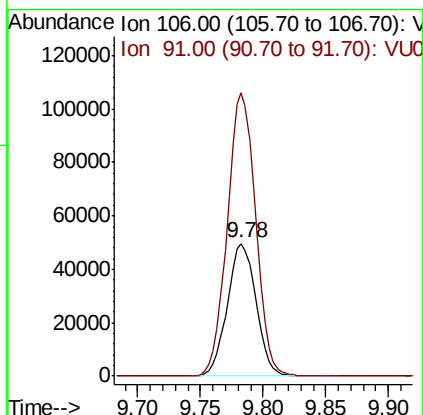
#69
o-Xylene
Concen: 19.92 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tot Ion	Ratio	Lower	Upper
106	100		
91	210.1	105.3	315.8

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

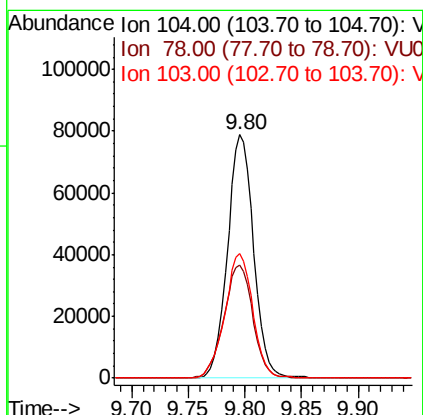
Manual Integrations
APPROVED

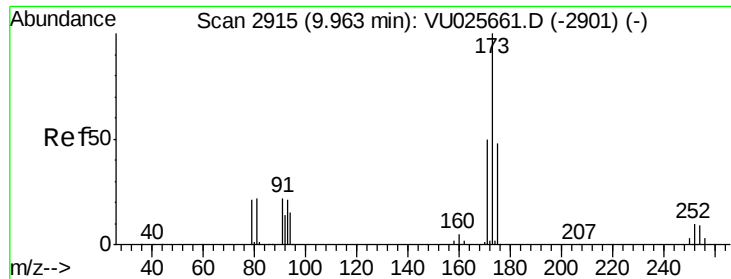
MMDadoda
7/31/2018 3:49:37 PM



#70
Styrene
Concen: 19.76 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.5	41.6	62.4
103	54.9	44.6	66.8





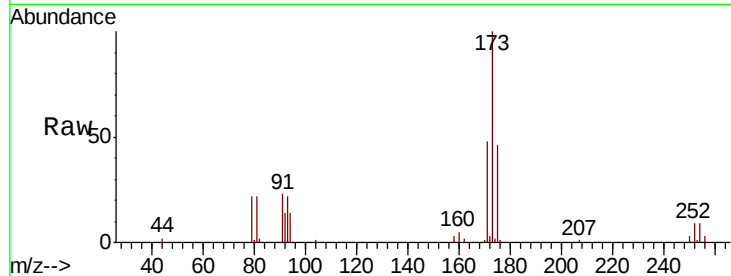
#71
Bromoform
Concen: 19.23 ug/l
RT: 9.96 min Scan# 2914
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.0	72.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:37 PM

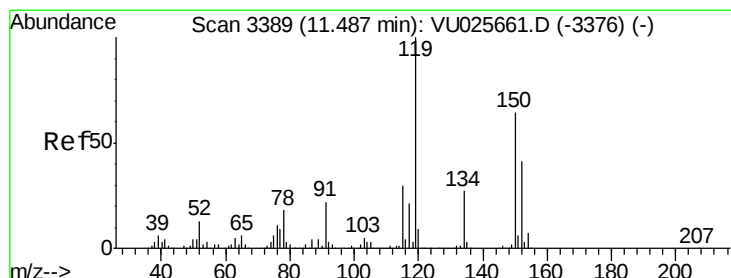
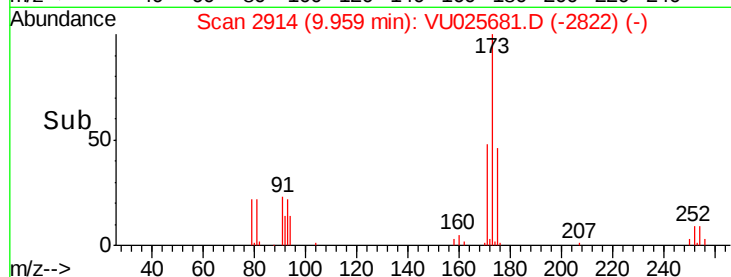
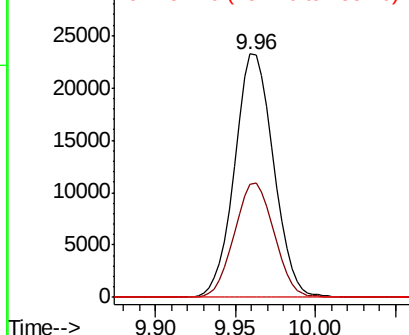


Abundance

Ion 172.70 (172.40 to 173.40): V

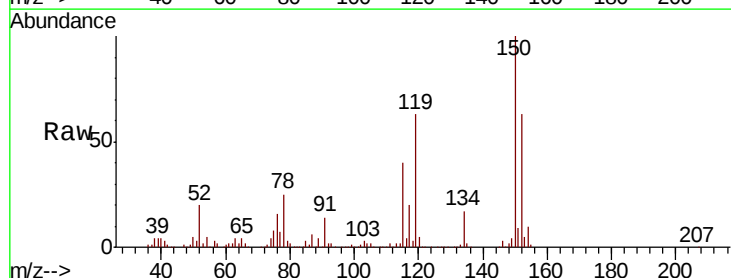
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
152	100		
115	66.4	40.1	120.3
150	164.8	0.0	351.4

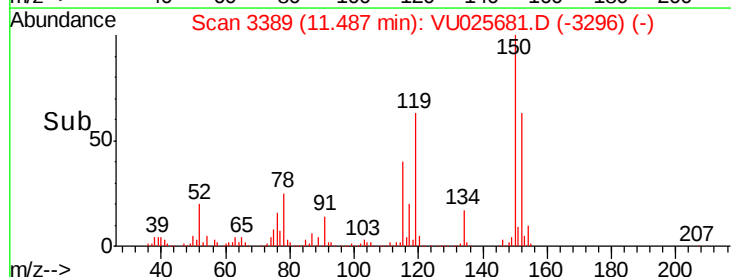
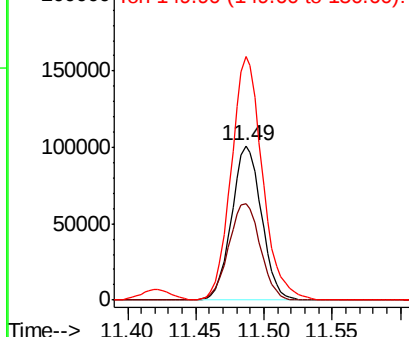


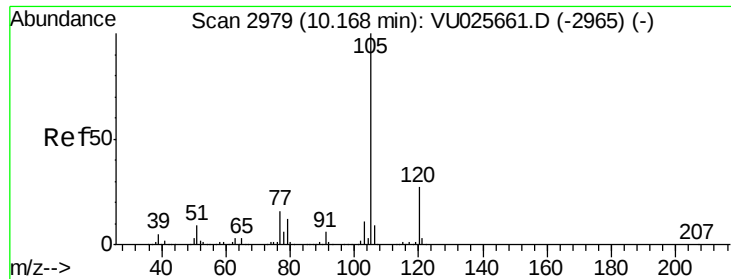
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.25 ug/l

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion: 105 Resp: 212610

Ion Ratio Lower Upper

105 100

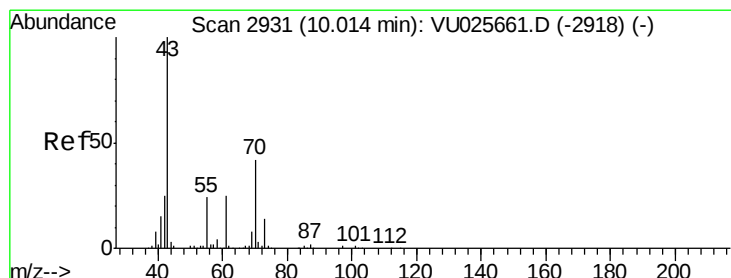
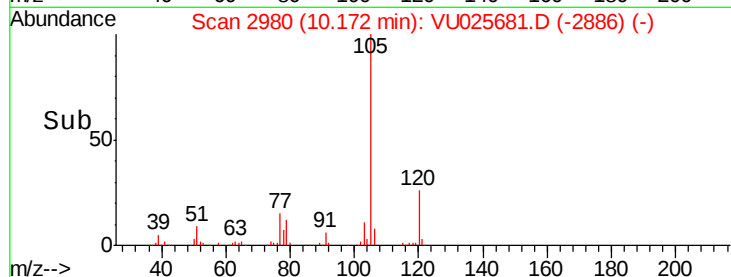
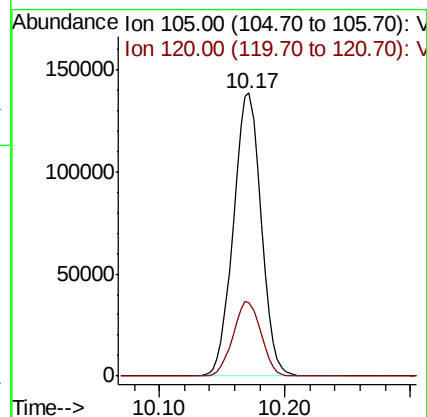
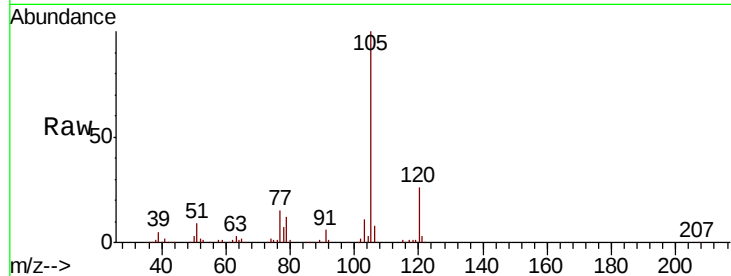
120 26.8 13.5 40.5

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:49:37 PM



#74

N-ethyl acetate

Concen: 20.90 ug/l

RT: 10.02 min Scan# 2932

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion: 43 Resp: 89569

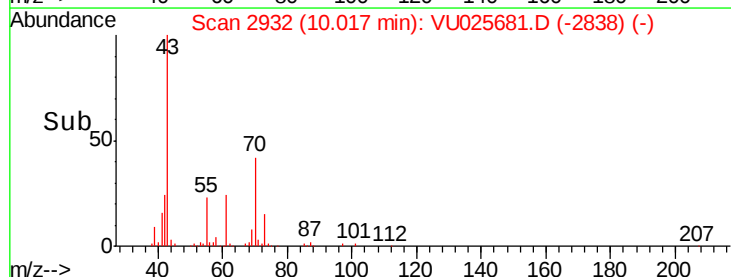
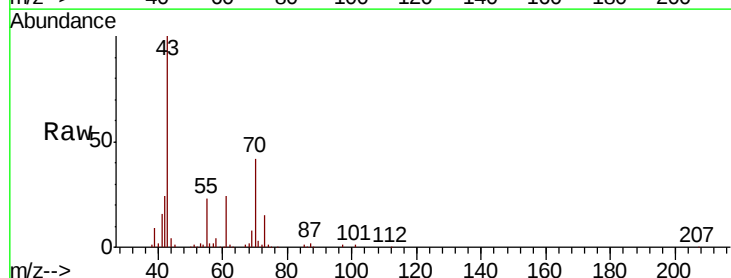
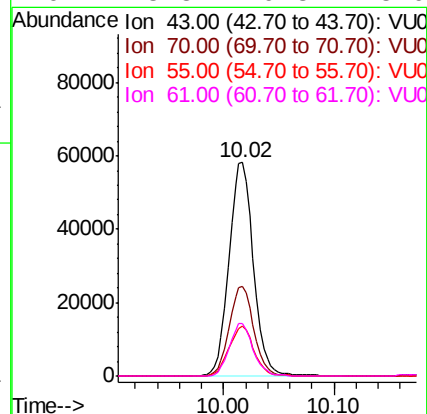
Ion Ratio Lower Upper

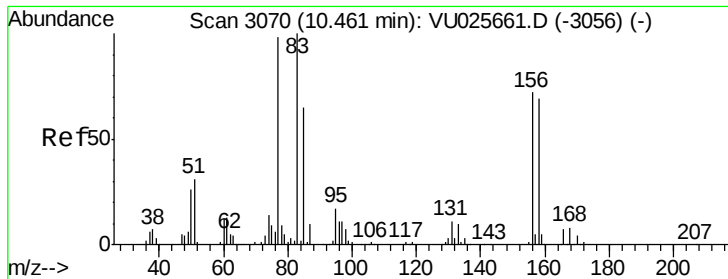
43 100

70 42.0 33.4 50.2

55 23.6 19.0 28.6

61 23.8 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 20.18 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion: 83 Resp: 73282

Ion Ratio Lower Upper

83 100

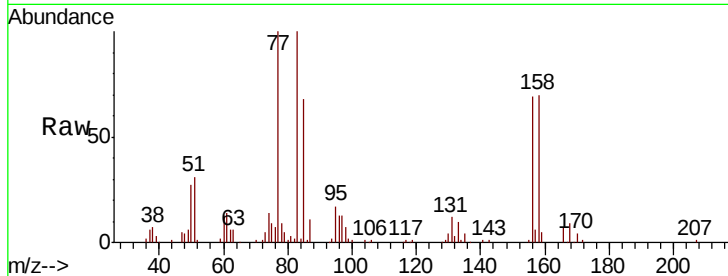
131 11.7 5.5 16.4

85 65.4 31.6 94.8

Manual Integrations
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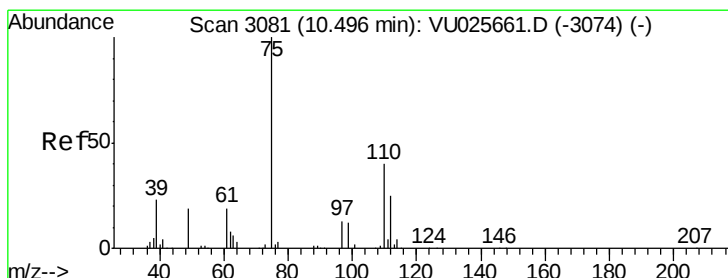
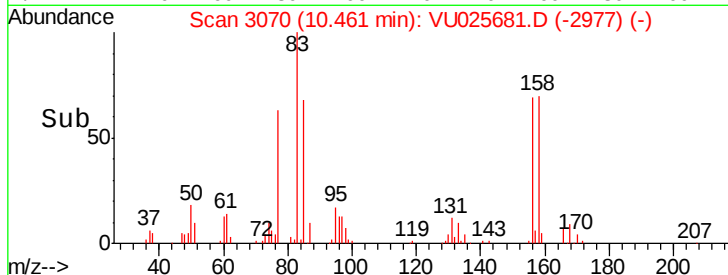
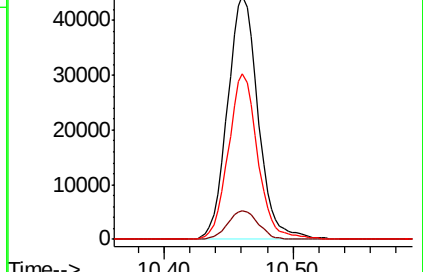
7/31/2018 3:49:37 PM



Abundance Ion 82.90 (82.60 to 83.60): VU025661.D (-3056) (-)

Ion 130.80 (130.50 to 131.50): VU025661.D (-3056) (-)

Ion 84.90 (84.60 to 85.60): VU025661.D (-3056) (-)



#76

1,2,3-Trichloropropane

Concen: 19.39 ug/l m

RT: 10.50 min Scan# 3082

Delta R.T. 0.00 min

Lab File: VU025681.D

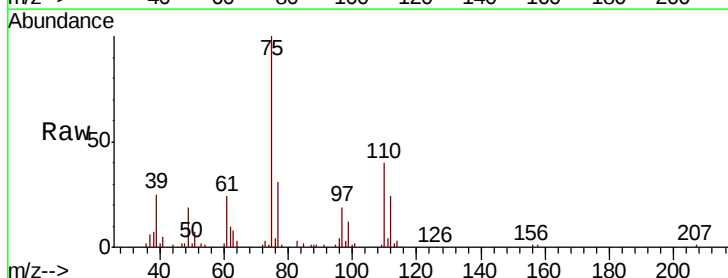
Acq: 27 Jul 2018 20:00

Tgt Ion: 75 Resp: 65721

Ion Ratio Lower Upper

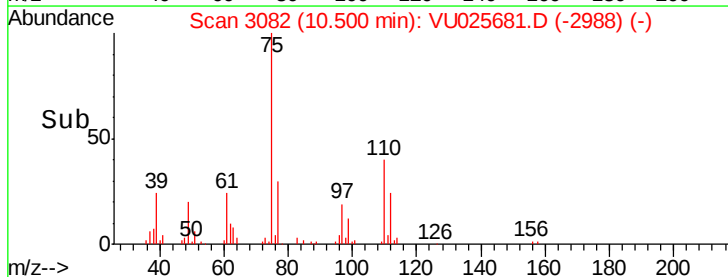
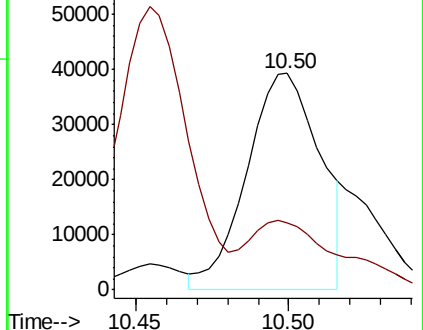
75 100

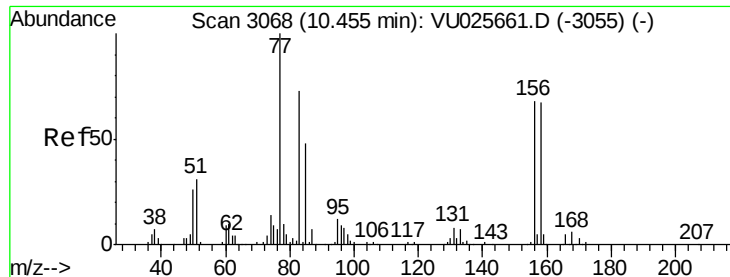
77 39.2 20.4 61.3



Abundance Ion 74.90 (74.60 to 75.60): VU025661.D (-3074) (-)

Ion 77.00 (76.70 to 77.70): VU025661.D (-3074) (-)





#77

Bromobenzene

Concen: 19.36 ug/l

RT: 10.45 min Scan# 3068

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion:156 Resp: 56077

Ion Ratio Lower Upper

156 100

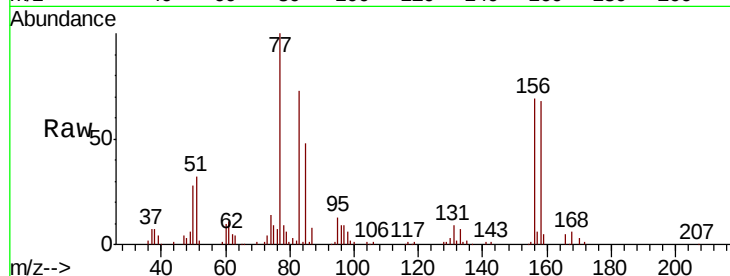
77 148.9 73.8 221.4

158 100.4 48.0 144.0

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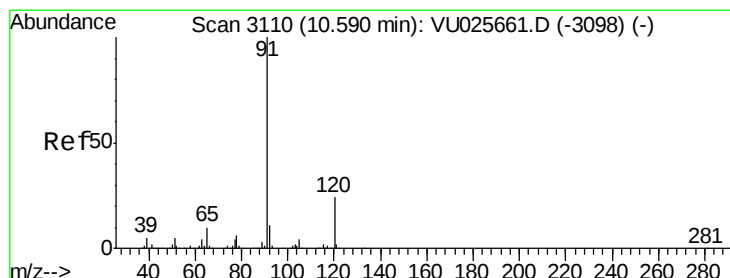
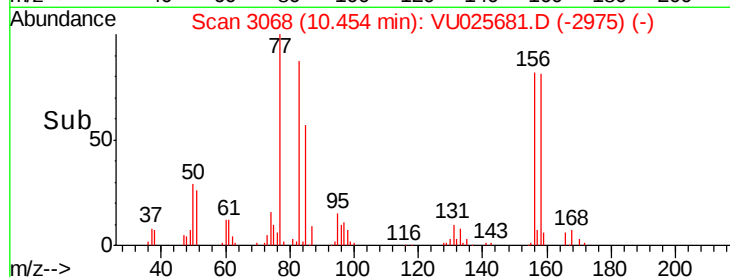
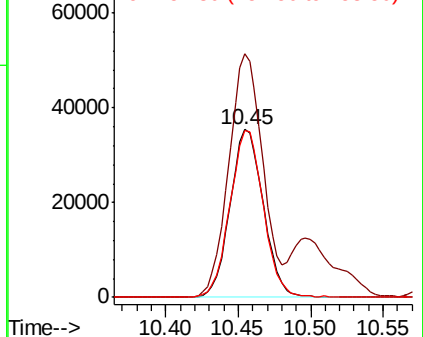
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.48 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. -0.00 min

Lab File: VU025681.D

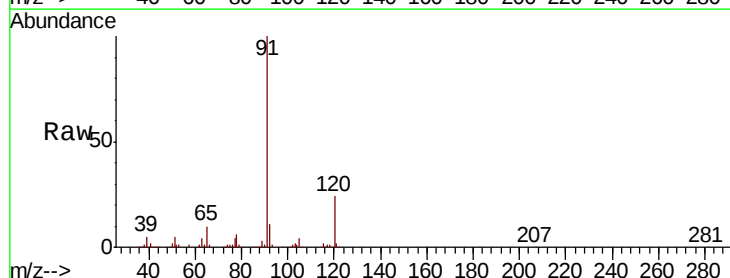
Acq: 27 Jul 2018 20:00

Tgt Ion: 91 Resp: 251020

Ion Ratio Lower Upper

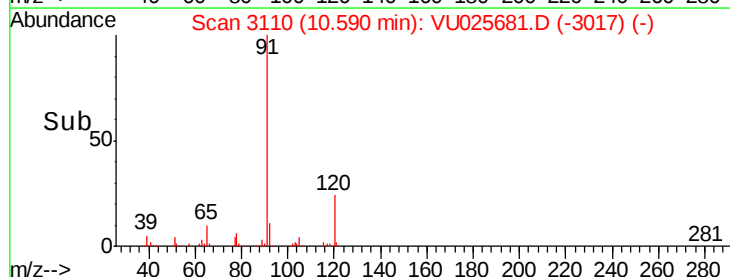
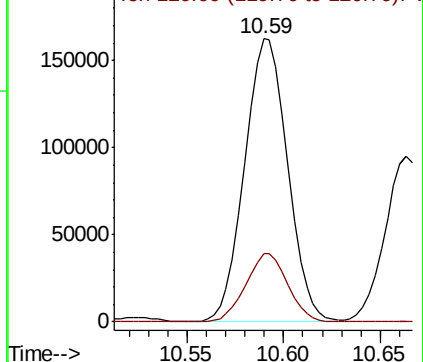
91 100

120 23.6 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.55 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion: 91 Resp: 147521

Ion Ratio Lower Upper

91 100

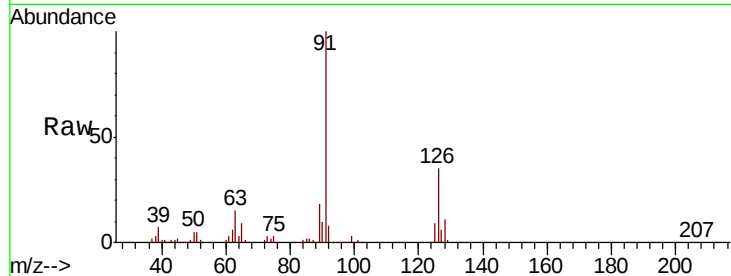
126 34.8 17.5 52.6

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU025661.D (-3122) (-)

Ion 125.90 (125.60 to 126.60): VU025661.D (-3122) (-)

150000

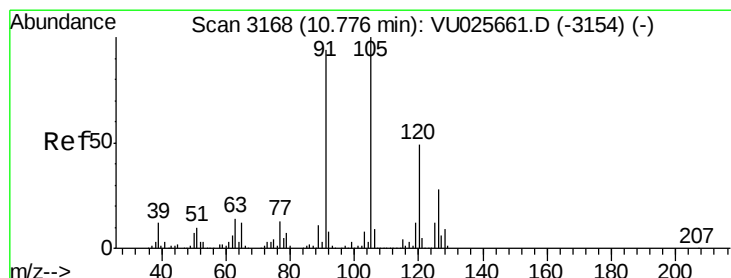
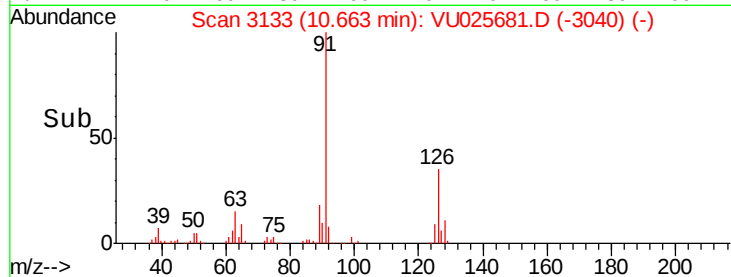
100000

50000

0

10.60 10.65 10.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.60 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025681.D

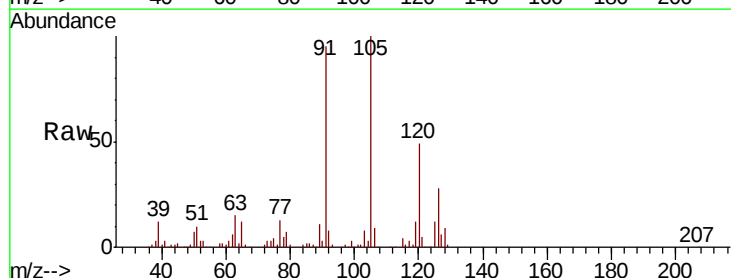
Acq: 27 Jul 2018 20:00

Tgt Ion:105 Resp: 183652

Ion Ratio Lower Upper

105 100

120 48.4 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): VU025661.D (-3154) (-)

Ion 120.00 (119.70 to 120.70): VU025661.D (-3154) (-)

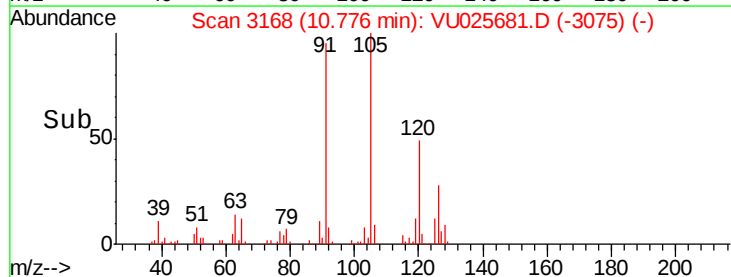
100000

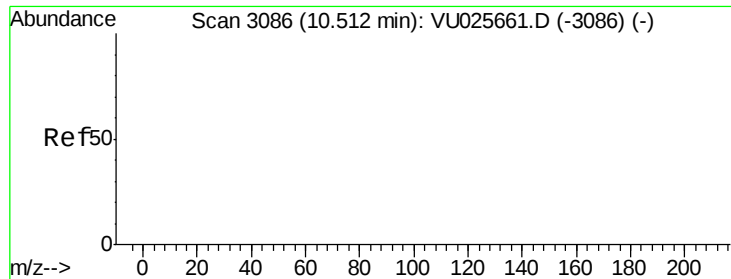
50000

0

10.70 10.75 10.80 10.85

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 38.38 ug/l m

RT: 10.50 min Scan# 3082

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

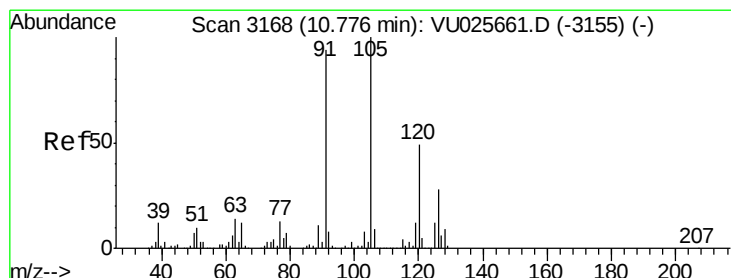
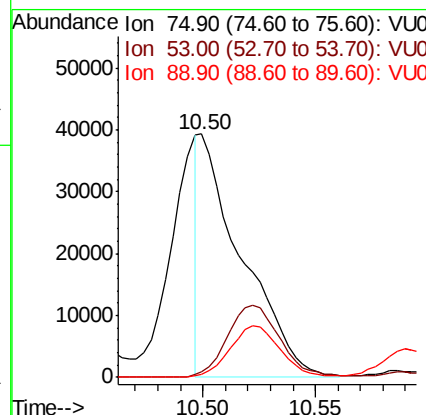
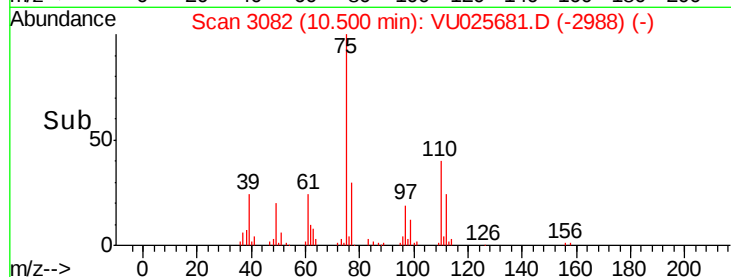
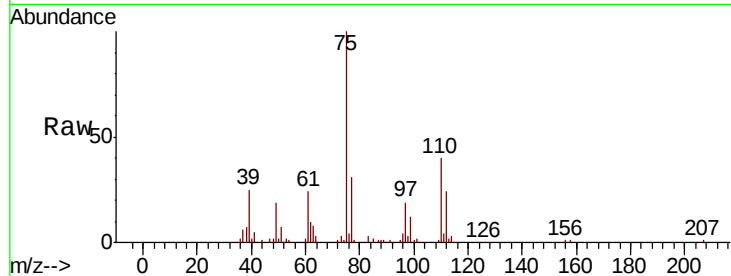
ClientSampleId :

VU0727MBSD01

Tot Ion:	75	Resp:	51884
Ion Ratio	Lower	Upper	
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.61 ug/l

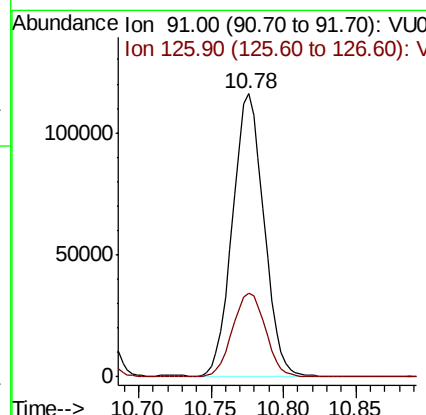
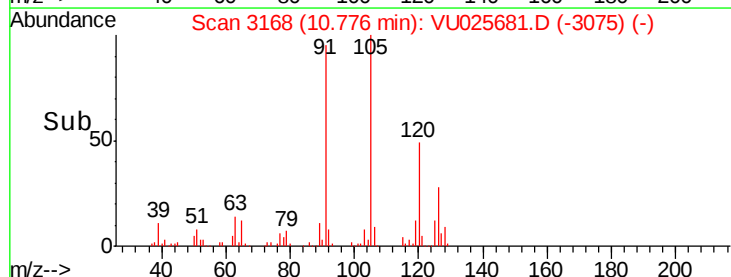
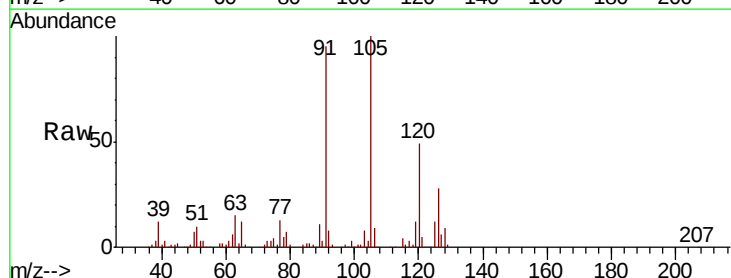
RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion:	91	Resp:	174424
Ion Ratio	Lower	Upper	
91	100		
126	31.2	15.3	45.9





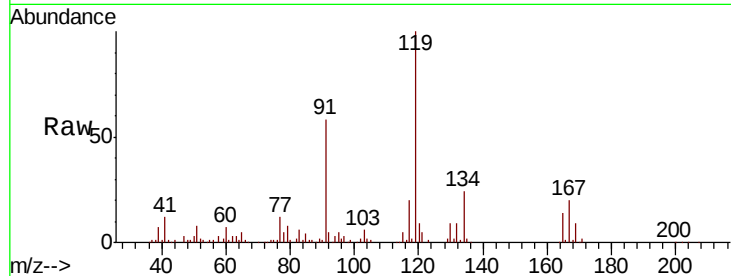
#83
 tert-Butylbenzene
 Concen: 19.93 ug/l
 RT: 11.10 min Scan# 3270
 Delta R.T. -0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	176571		
91	58.1		29.7	89.1
134	23.2		11.5	34.5

Manual Integrations
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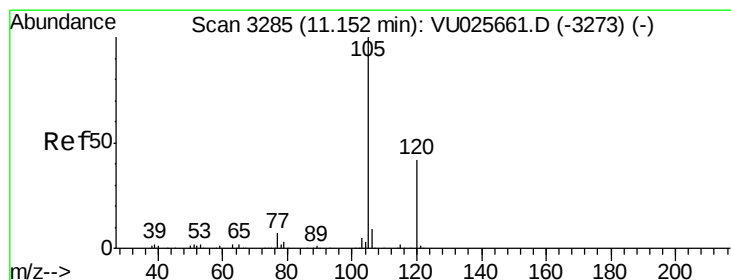
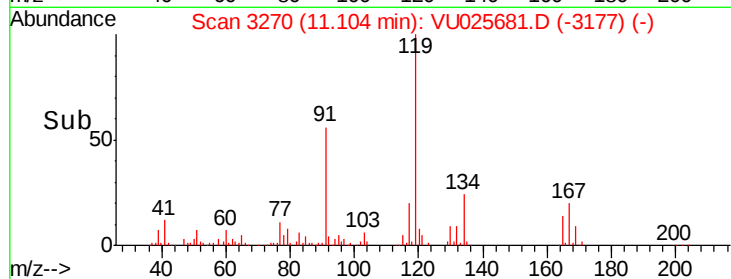
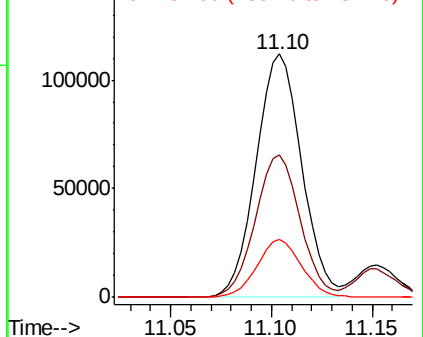


Abundance

Ion 119.00 (118.70 to 119.70): V

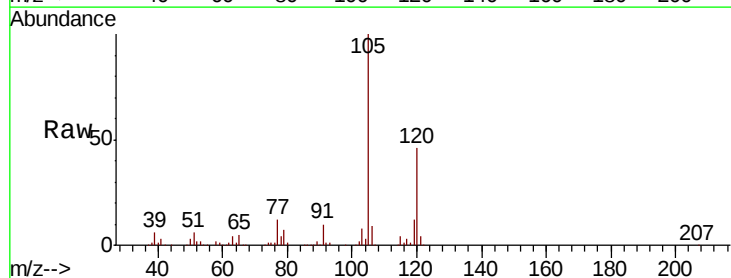
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84
 1,2,4-Trimethylbenzene
 Concen: 20.96 ug/l
 RT: 11.15 min Scan# 3285
 Delta R.T. -0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

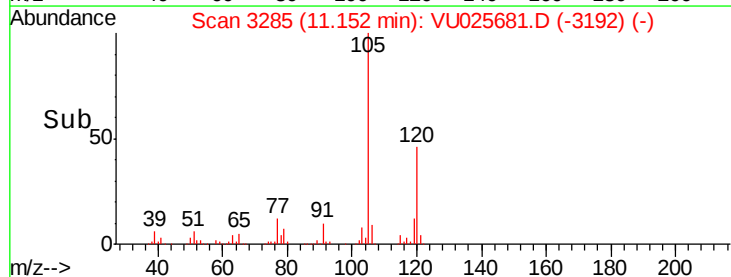
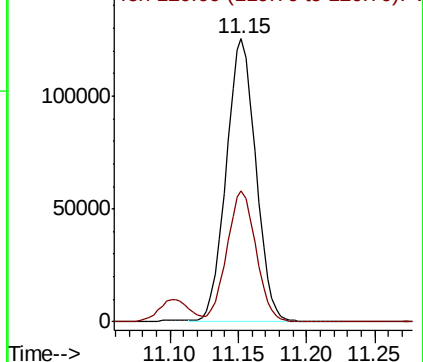
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	189360		
120	45.5		22.3	66.8

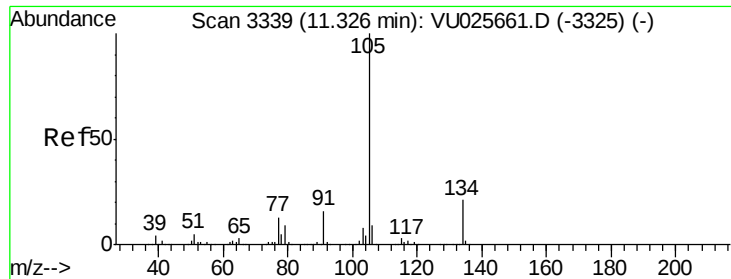


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.51 ug/l

RT: 11.33 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

ClientSampleId :

VU0727MBSD01

Tot Ion:105 Resp: 221832

Ion Ratio Lower Upper

105 100

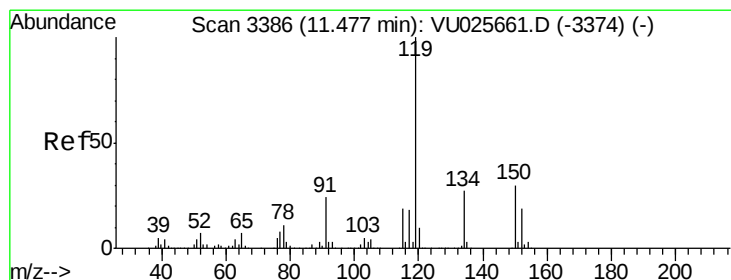
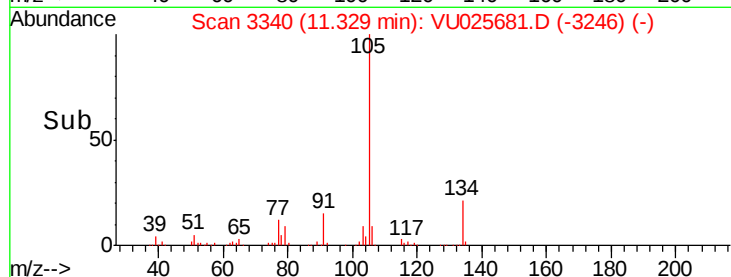
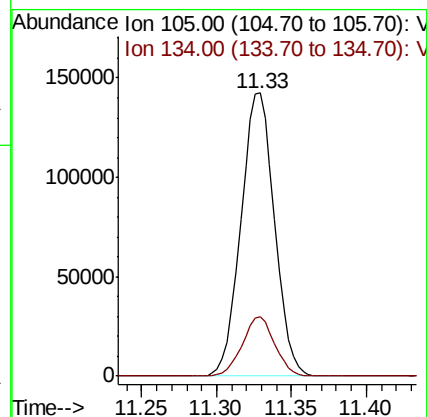
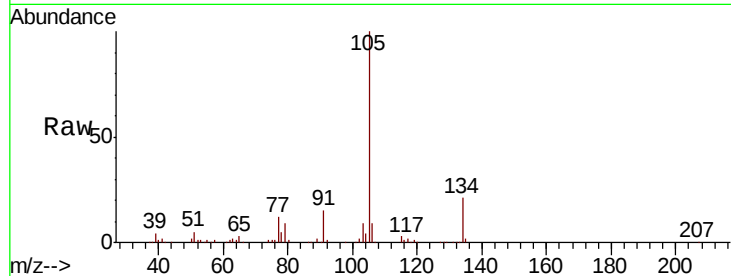
134 20.3 10.3 30.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 20.57 ug/l

RT: 11.48 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

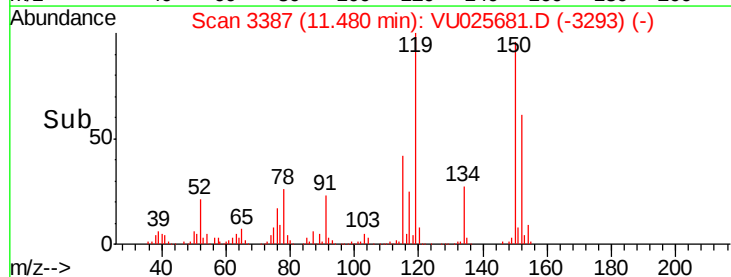
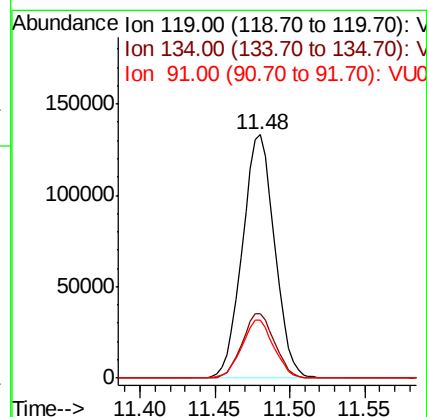
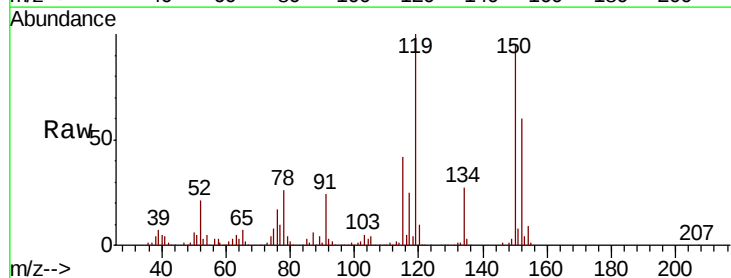
Tgt Ion:119 Resp: 199192

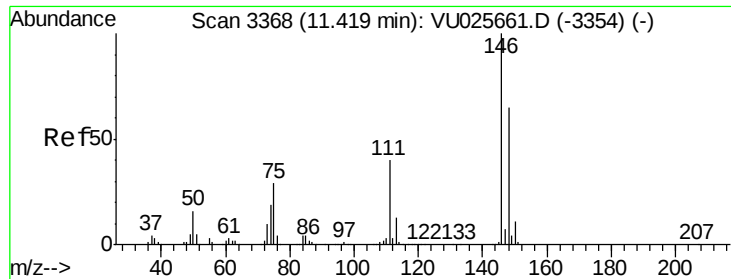
Ion Ratio Lower Upper

119 100

134 26.7 13.2 39.5

91 23.7 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 19.99 ug/l

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

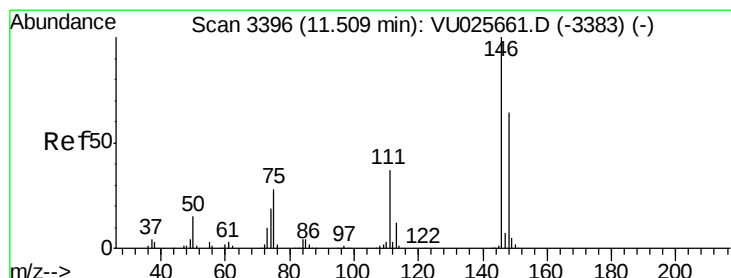
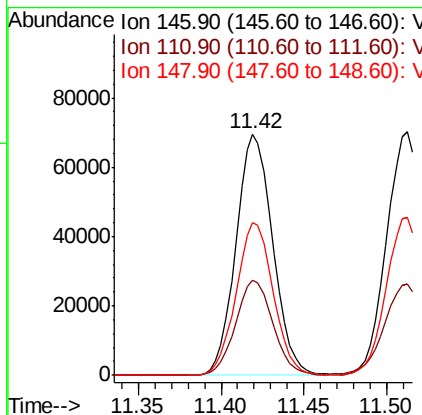
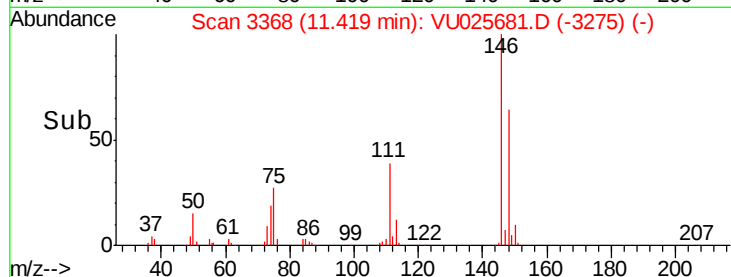
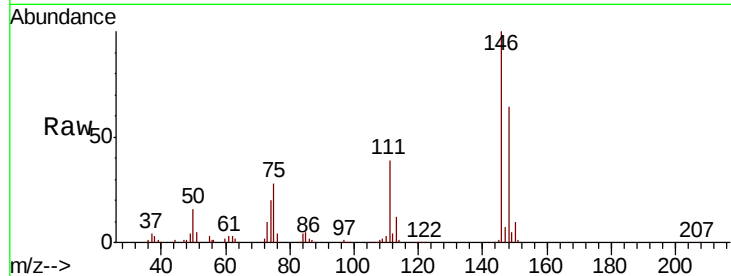
ClientSampleId :

VU0727MBSD01

Tot Ion:	146	Resp:	107451
Ion Ratio	Lower	Upper	
146	100		
111	40.0	19.7	59.1
148	63.7	32.1	96.3

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 19.62 ug/l

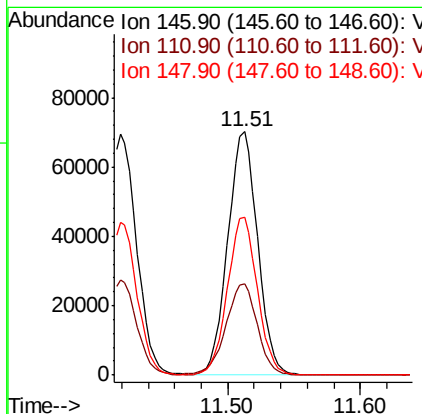
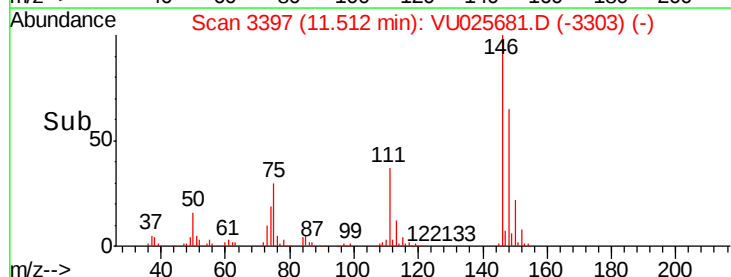
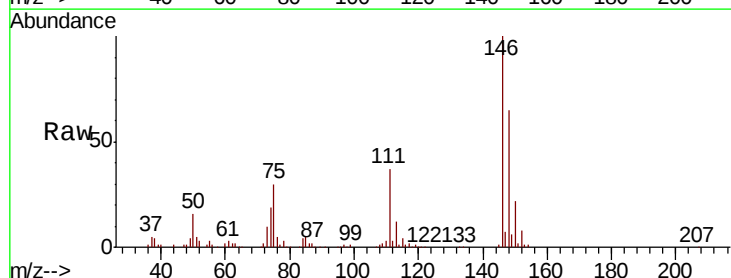
RT: 11.51 min Scan# 3397

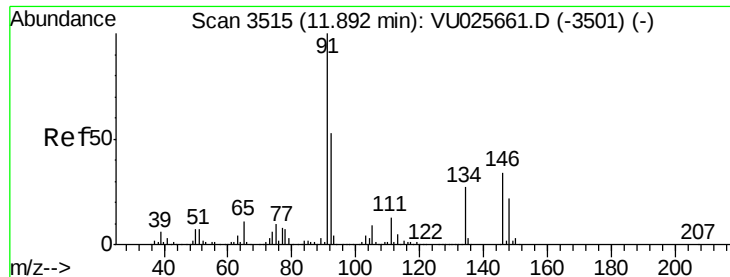
Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion:	146	Resp:	109949
Ion Ratio	Lower	Upper	
146	100		
111	39.7	19.4	58.1
148	64.8	31.7	95.1





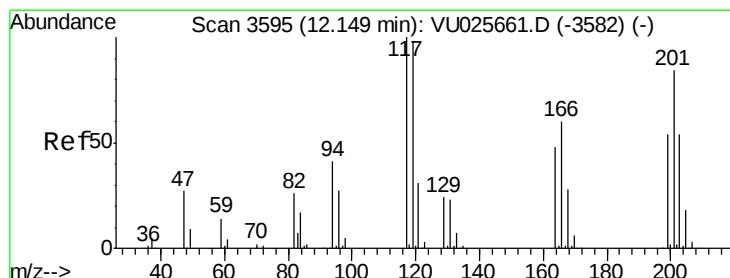
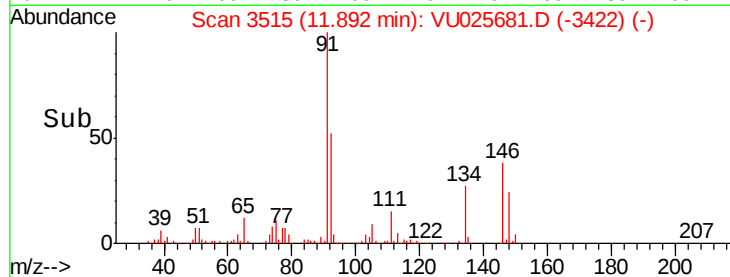
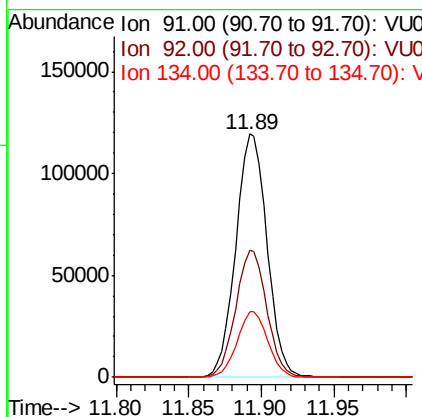
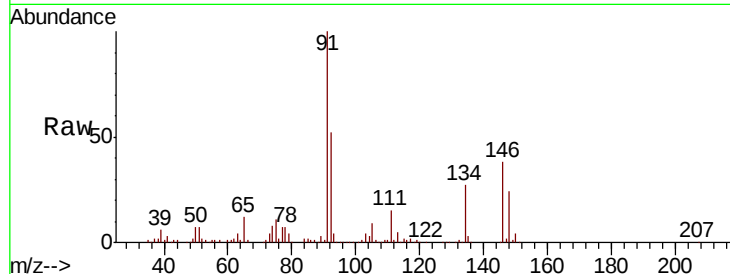
#89
n-Butylbenzene
Concen: 20.01 ug/l
RT: 11.89 min Scan# 3515
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		178890		
92	51.9	26.5	79.5		
134	26.6	13.6	40.7		

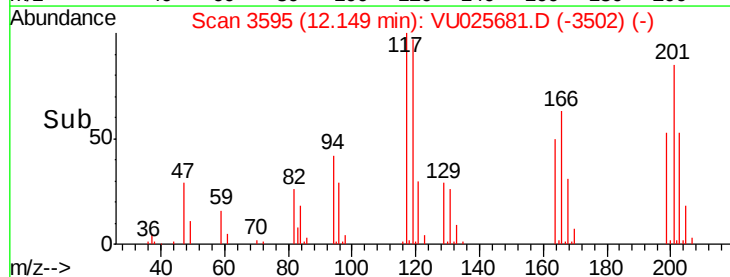
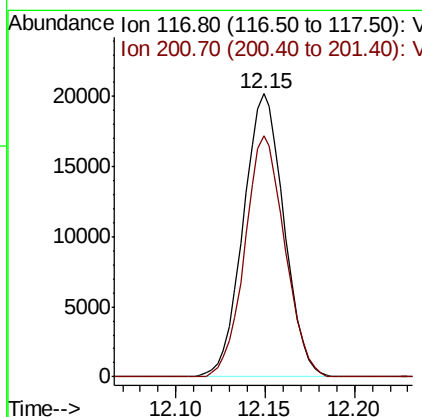
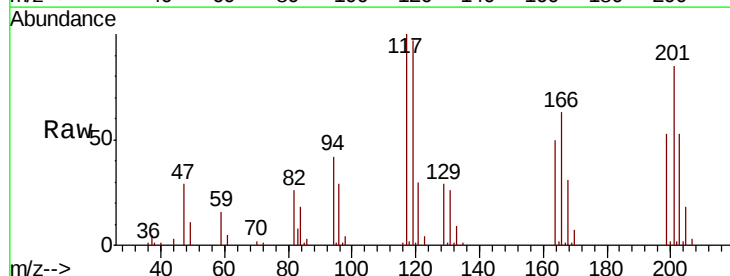
Manual Integrations
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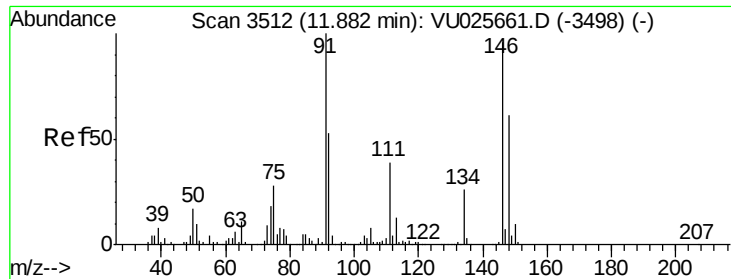
MMDadoda
7/31/2018 3:49:37 PM



#90
Hexachloroethane
Concen: 18.70 ug/l
RT: 12.15 min Scan# 3595
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		32200		
201	83.6	42.5	127.6		





#91

1,2-Dichlorobenzene

Concen: 20.23 ug/l

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Instrument :

MSVOA_U

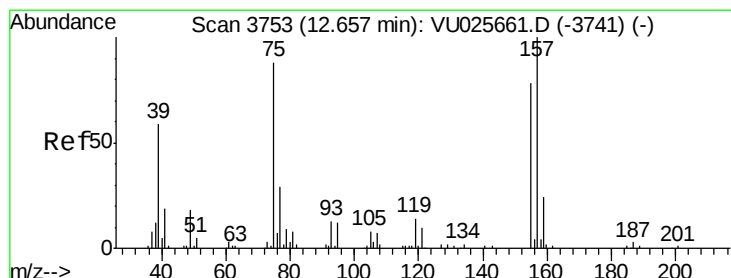
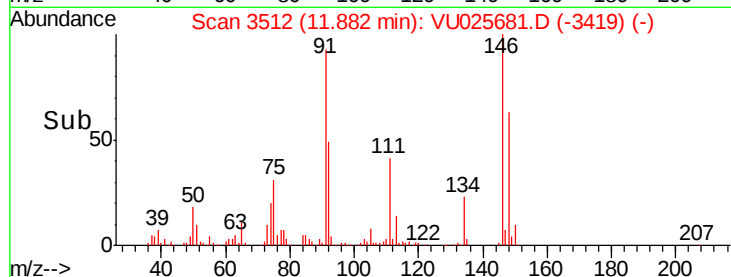
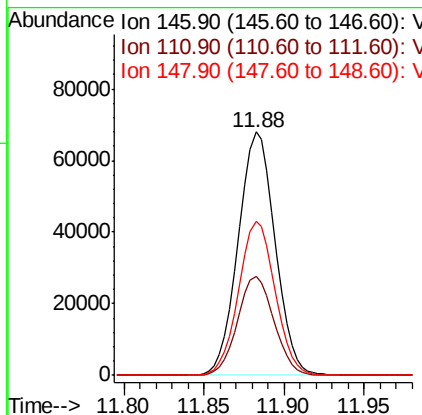
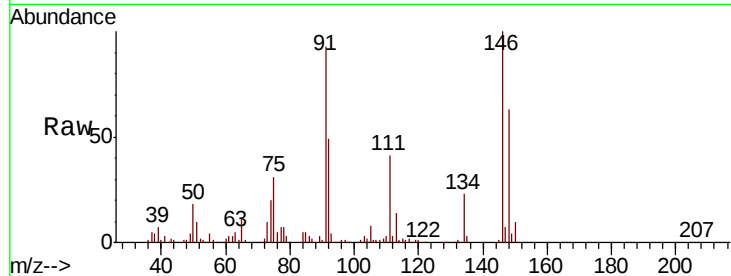
ClientSampleId :

VU0727MBSD01

Tot Ion:	146	Resp:	106596
Ion Ratio	Lower	Upper	
146	100		
111	40.2	20.6	61.8
148	62.8	31.5	94.5

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#92

1,2-Dibromo-3-Chloropropane

Concen: 20.95 ug/l

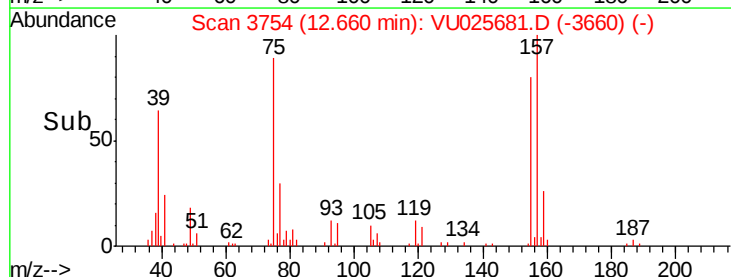
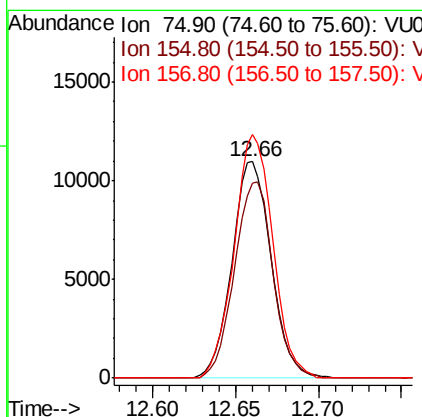
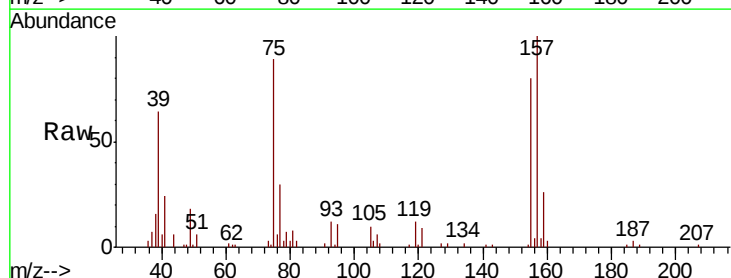
RT: 12.66 min Scan# 3754

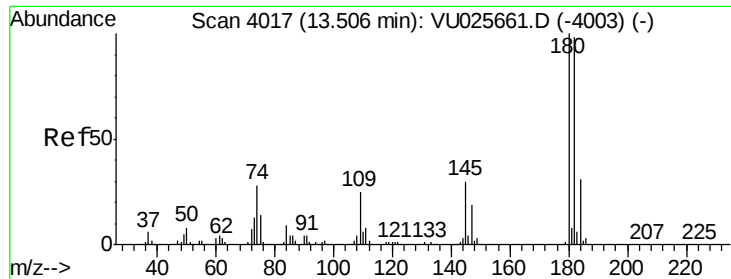
Delta R.T. 0.00 min

Lab File: VU025681.D

Acq: 27 Jul 2018 20:00

Tgt Ion:	75	Resp:	18037
Ion Ratio	Lower	Upper	
75	100		
155	89.1	44.5	133.3
157	110.8	57.0	170.8





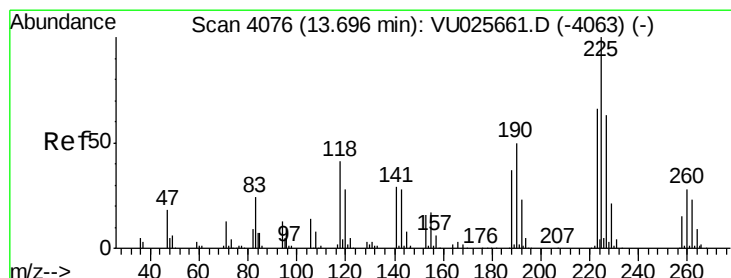
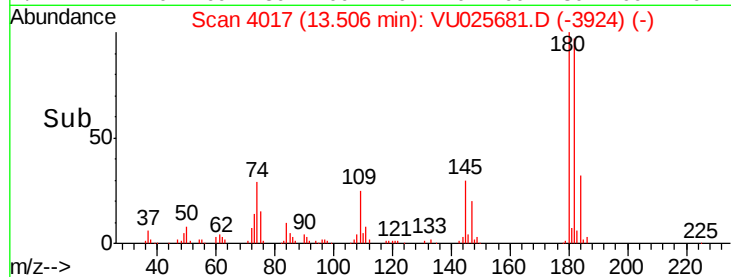
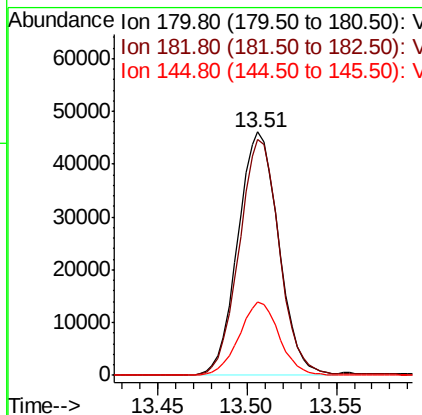
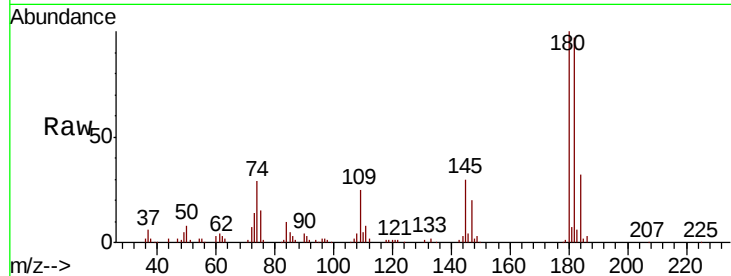
#93
 1,2,4-Trichlorobenzene
 Concen: 20.69 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727MBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.3	141.9
145	29.7	14.9	44.7

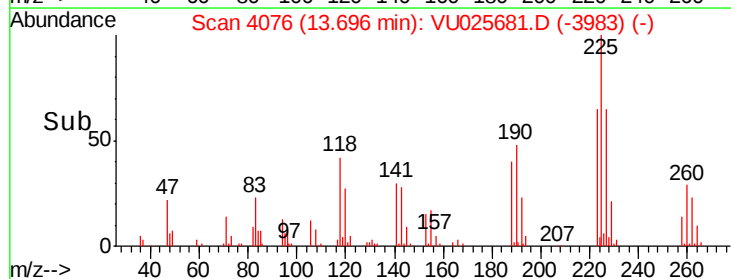
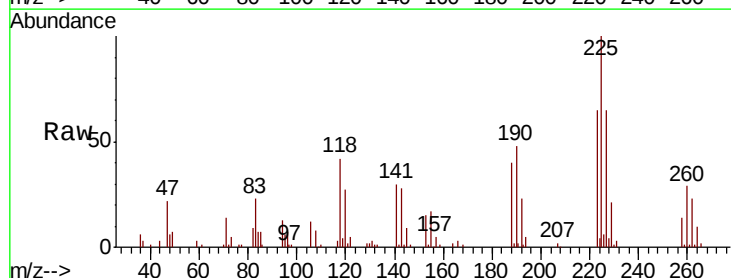
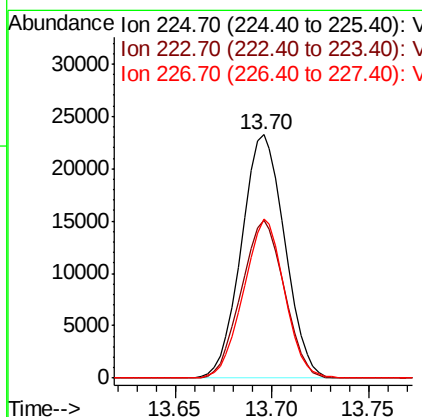
Manual Integrations
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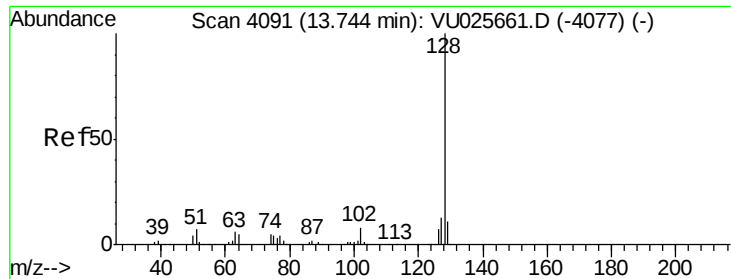
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#94
 Hexachlorobutadiene
 Concen: 19.35 ug/l
 RT: 13.70 min Scan# 4076
 Delta R.T. -0.00 min
 Lab File: VU025681.D
 Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.9	95.7
227	61.8	32.3	96.9





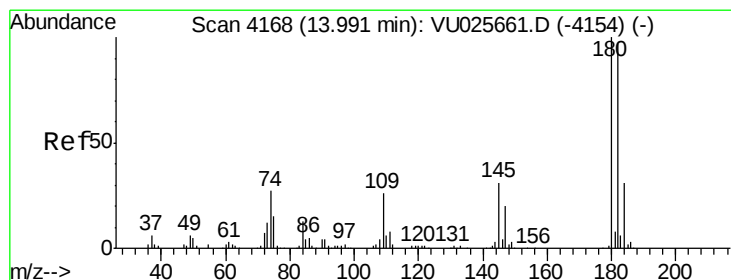
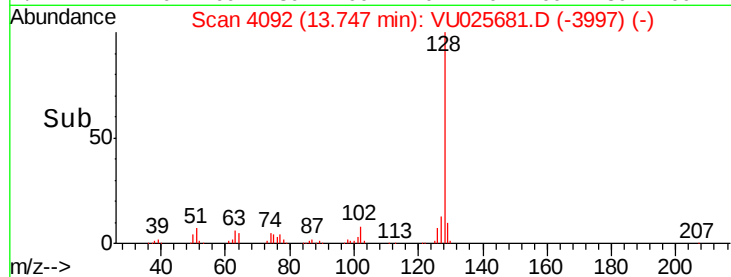
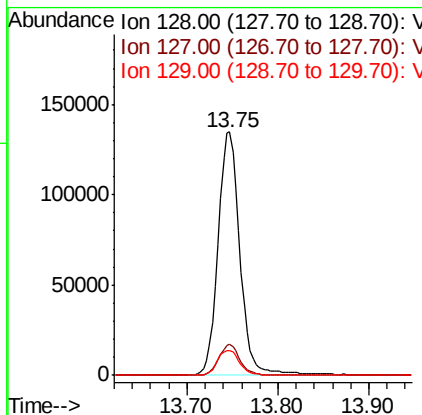
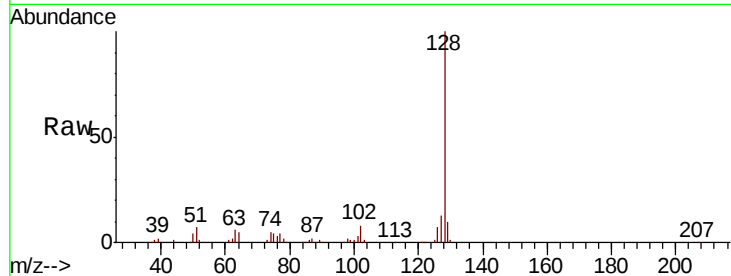
#95
Naphthalene
Concen: 20.47 ug/l
RT: 13.75 min Scan# 4092
Delta R.T. 0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Instrument :
MSVOA_U
ClientSampleId :
VU0727MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	225185		
127	12.3	10.5	15.7	
129	10.6	8.3	12.5	

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#96
1,2,3-Trichlorobenzene
Concen: 21.29 ug/l
RT: 13.99 min Scan# 4168
Delta R.T. -0.00 min
Lab File: VU025681.D
Acq: 27 Jul 2018 20:00

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	75535		
182	96.2	47.8	143.3	
145	31.3	15.6	46.8	

