

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071119\
 Data File : VL034030.D
 Acq On : 11 Jul 2019 23:22
 Operator : SY/AP
 Sample : K3747-03DL DUP 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NVS-1DL DUP

Manual Integrations
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 7/12/2019 10:47:19 PM

Quant Time: Jul 12 08:10:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	977871	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	2611662	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.19	117	2662553	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.53	95	2146065	9.45	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	573763	12.916	ppbv	90
10) Heptane	8.21	43	23566m	0.212	ppbv	
13) Ethanol	3.63	45	116996	8.478	ppbv	100
15) Acetone	3.88	43	1020186	6.205	ppbv #	73
17) tert-Butyl alcohol	4.35	59	26471m	0.202	ppbv	
20) Methylene Chloride	4.38	84	24608	0.343	ppbv #	87
26) Hexane	5.74	57	66009	0.641	ppbv #	39
27) Carbon Disulfide	4.59	76	84961	0.486	ppbv #	75
34) 2-Butanone	5.30	43	189321	1.370	ppbv	96
36) Benzene	6.97	78	57502	0.281	ppbv #	89
38) Trichloroethene	7.92	130	5181m	0.057	ppbv	
51) 2-Hexanone	10.25	43	17560m	0.106	ppbv	
53) Toluene	9.90	91	276103	1.180	ppbv	100
58) Ethyl Benzene	12.82	91	63109m	0.197	ppbv	
59) m/p-Xylene	13.08	91	279361m	0.964	ppbv	
60) o-Xylene	13.80	91	95232	0.328	ppbv	98
72) 4-Ethyltoluene	15.96	105	47296m	0.127	ppbv	
73) 1,3,5-Trimethylbenzene	16.11	105	39184m	0.113	ppbv	
74) 1,2,4-Trimethylbenzene	16.88	105	111897	0.292	ppbv #	75

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

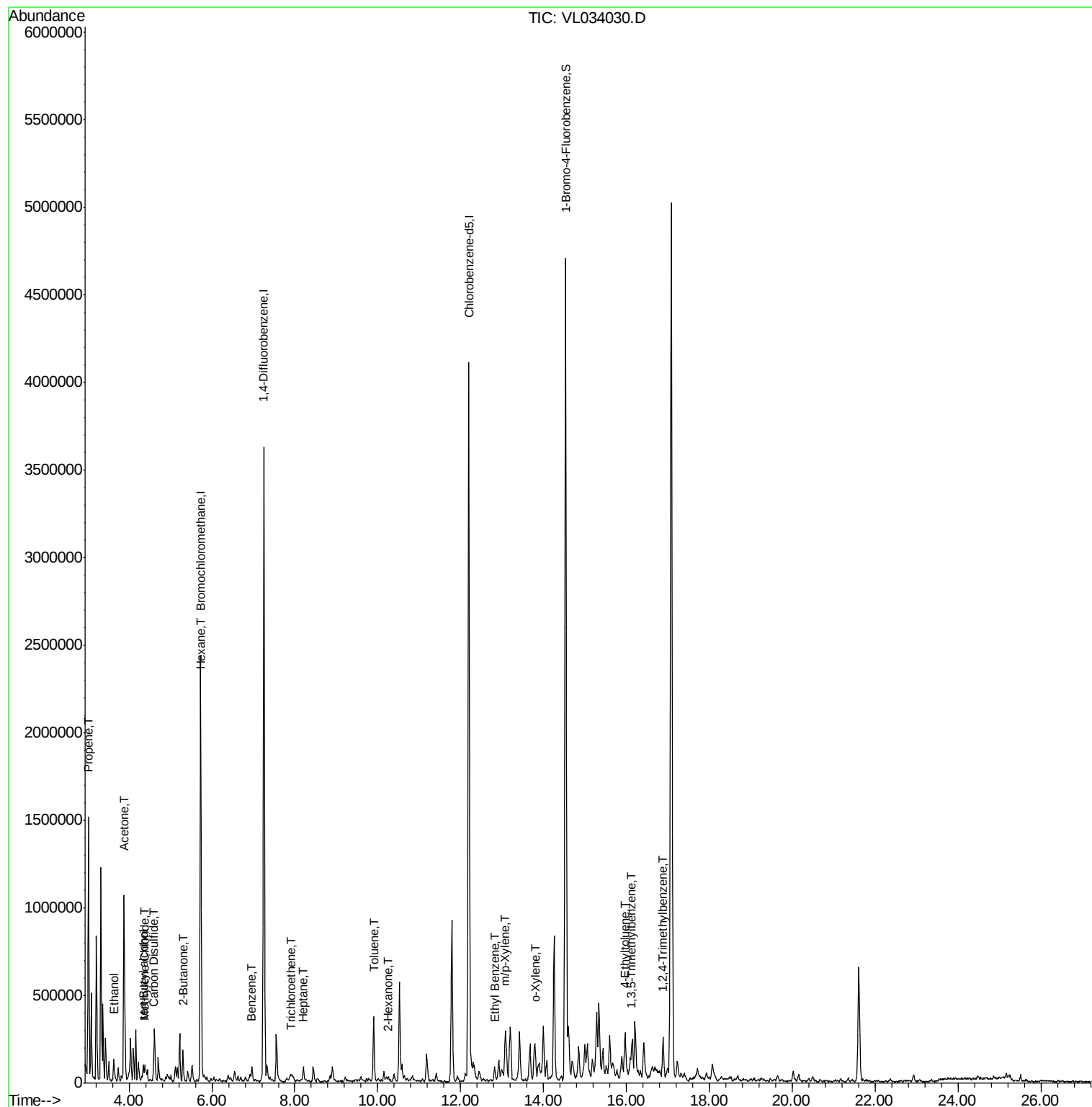
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071119\
Data File : VL034030.D
Acq On : 11 Jul 2019 23:22
Operator : SY/AP
Sample : K3747-03DL DUP 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

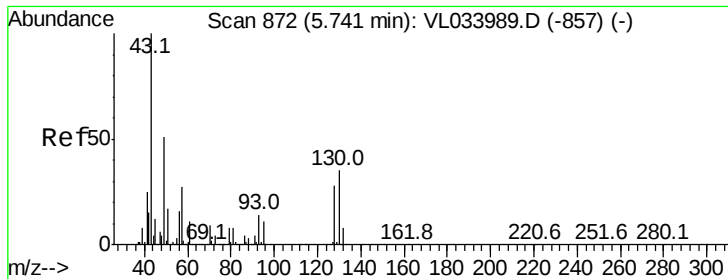
Instrument :
MSVOA_L
ClientSampleId :
NVS-1DL DUP

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Quant Time: Jul 12 08:10:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Instrument :

MSVOA_L

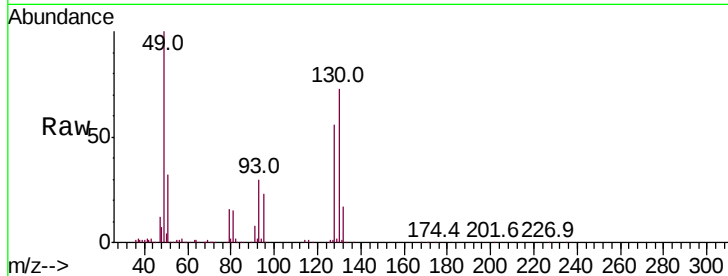
ClientSampleId :

NVS-1DLDP

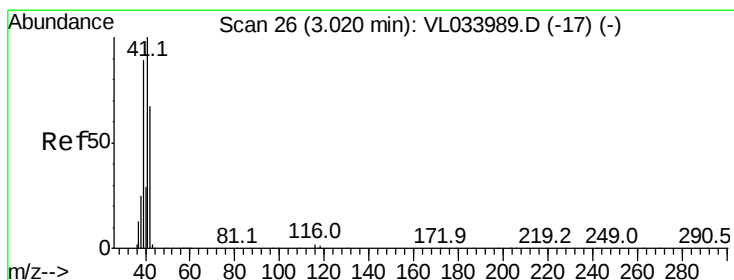
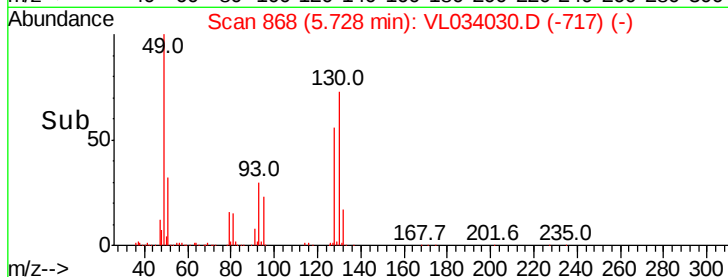
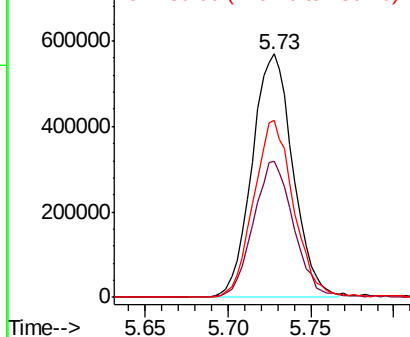
Tot Ion	Ratio	Lower	Upper
49	100		
128	55.2	27.9	83.6
130	72.1	35.8	107.4

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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 12.916 ppbv

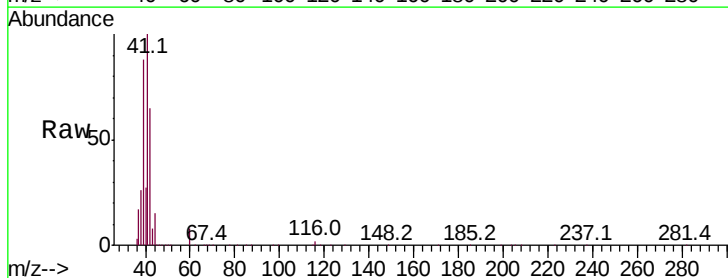
RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

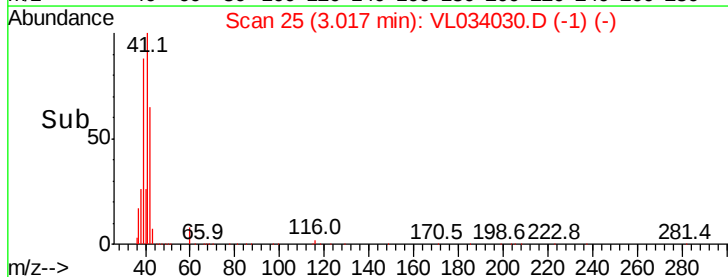
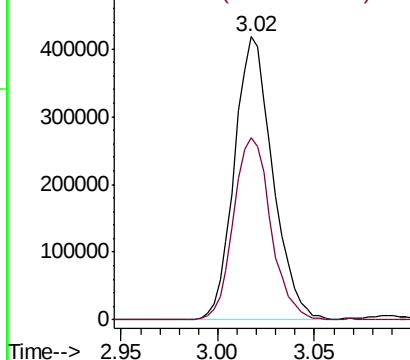
Lab File: VL034030.D

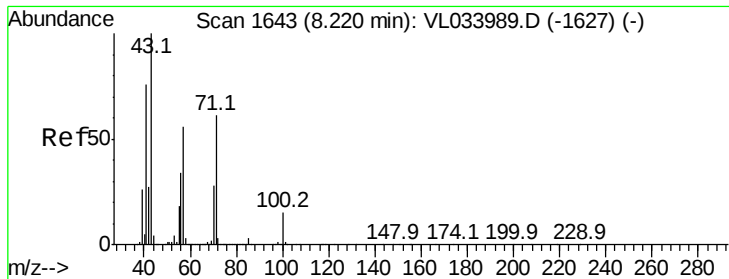
Acq: 11 Jul 2019 23:22

Tgt Ion	Ratio	Lower	Upper
41	100		
42	63.0	57.1	85.7



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 42.10 (41.80 to 42.80): VL0





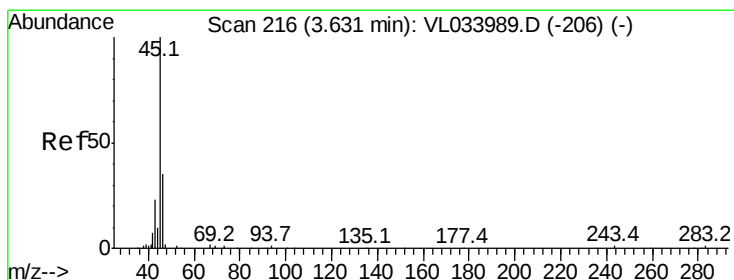
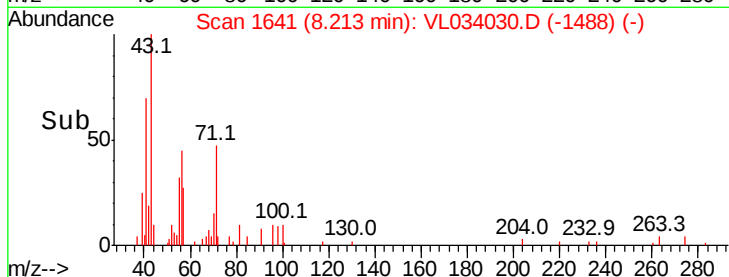
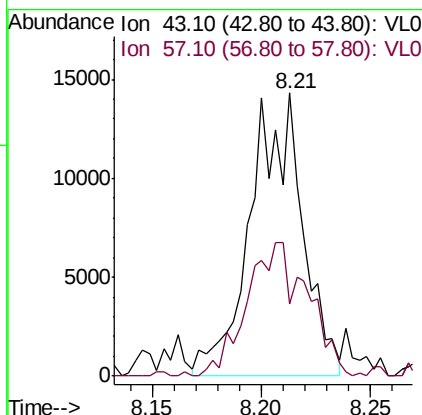
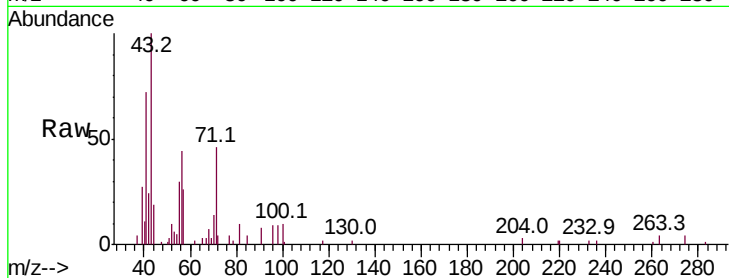
#10
Heptane
Concen: 0.212 ppbv m
RT: 8.21 min Scan# 1641
Delta R.T. -0.01 min
Lab File: VL034030.D
Acq: 11 Jul 2019 23:22

Instrument :
MSVOA_L
ClientSampleId :
NVS-1DLDP

Tot Ion: 43 Resp: 23566
Ion Ratio Lower Upper
43 100
57 0.0 44.6 66.8#

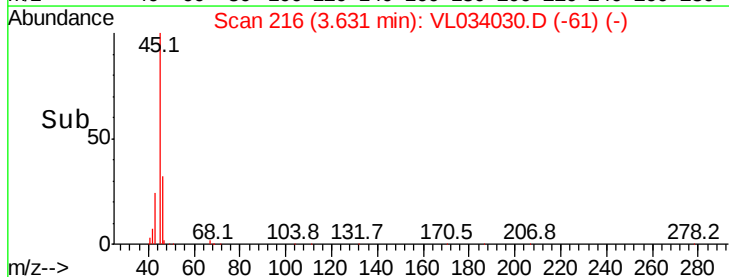
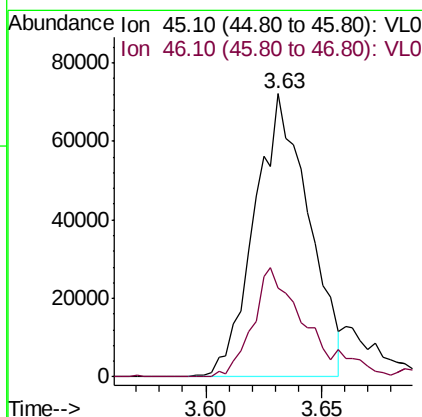
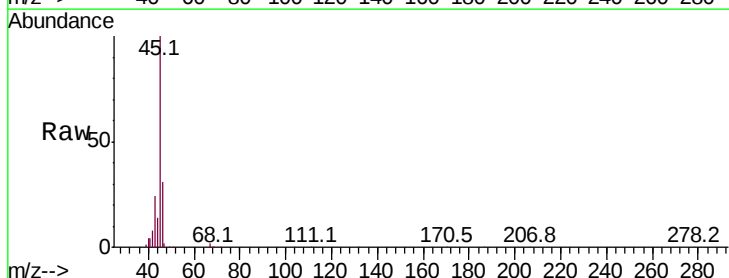
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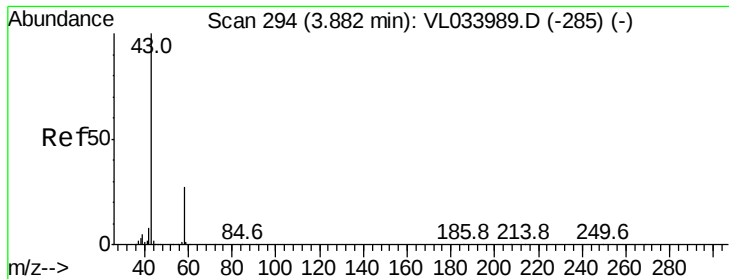
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#13
Ethanol
Concen: 8.478 ppbv
RT: 3.63 min Scan# 216
Delta R.T. -0.00 min
Lab File: VL034030.D
Acq: 11 Jul 2019 23:22

Tgt Ion: 45 Resp: 116996
Ion Ratio Lower Upper
45 100
46 40.5 16.2 64.6





#15

Acetone

Concen: 6.205 ppbv

RT: 3.88 min Scan# 292

Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Instrument :

MSVOA_L

ClientSampleId :

NVS-1DLDP

Tot Ion: 43 Resp: 1020186

Ion Ratio Lower Upper

43 100

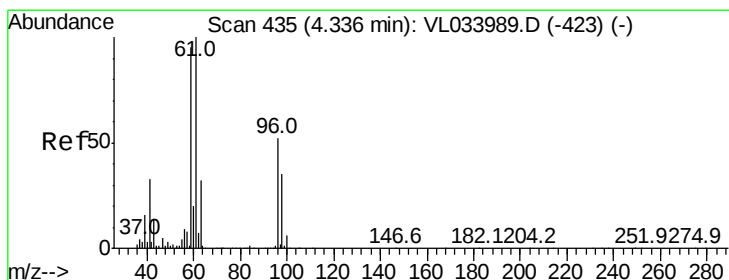
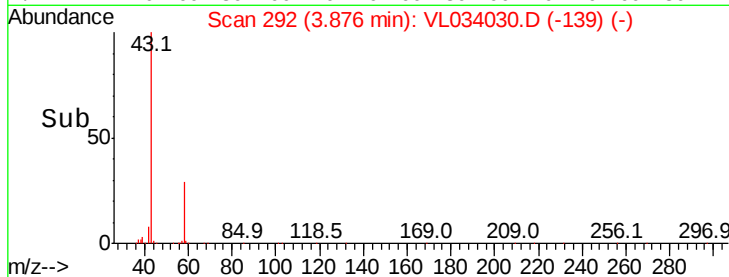
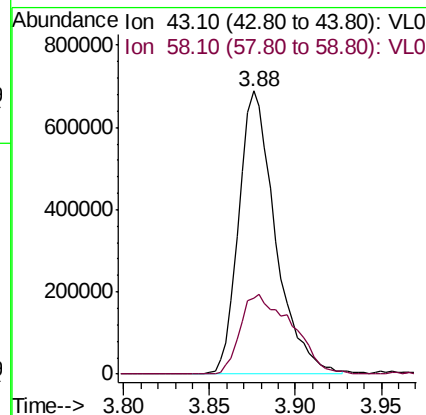
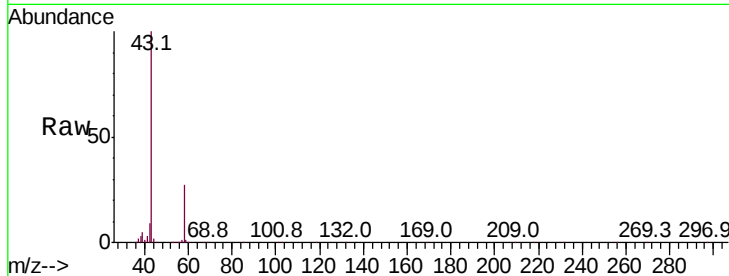
58 40.6 21.4 32.0#

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#17

tert-Butyl alcohol

Concen: 0.202 ppbv m

RT: 4.35 min Scan# 440

Delta R.T. 0.02 min

Lab File: VL034030.D

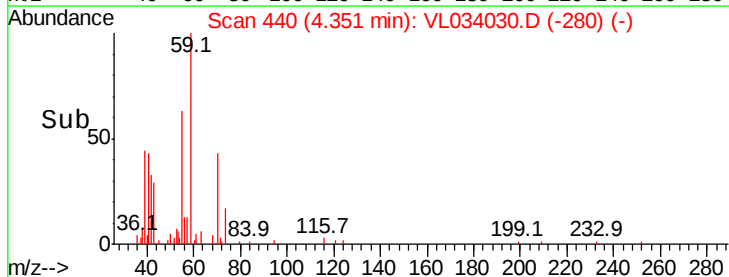
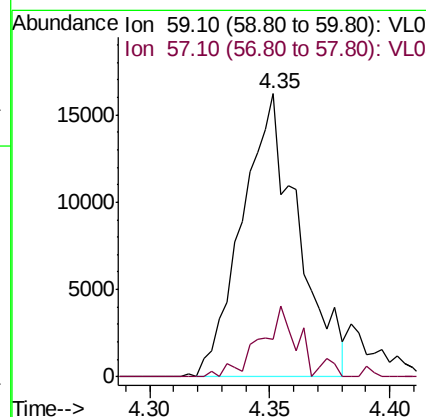
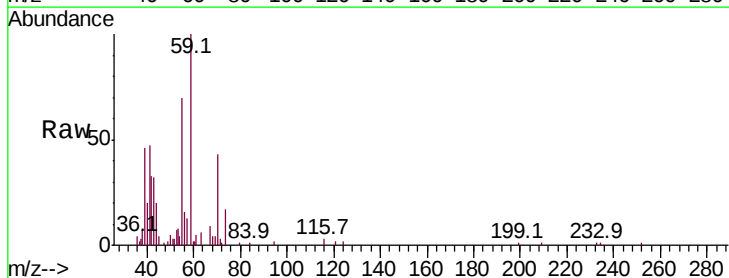
Acq: 11 Jul 2019 23:22

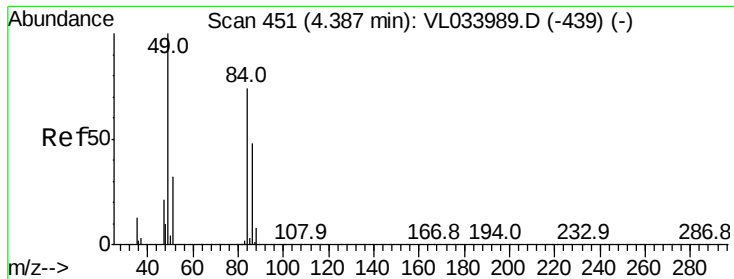
Tgt Ion: 59 Resp: 26471

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#





#20

Methvlene Chloride

Concen: 0.343 ppbv

RT: 4.38 min Scan# 449

Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Instrument :

MSVOA_L

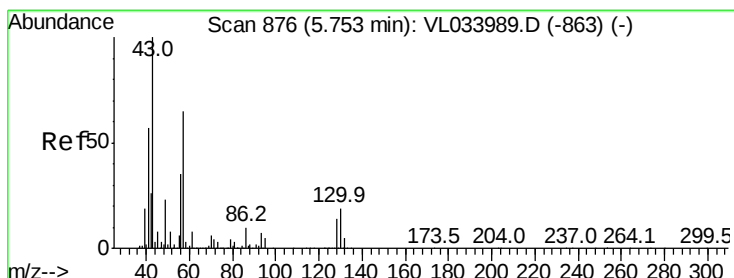
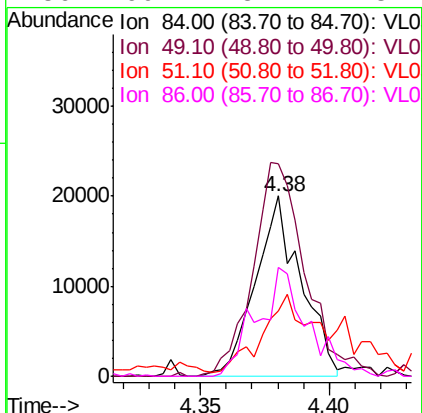
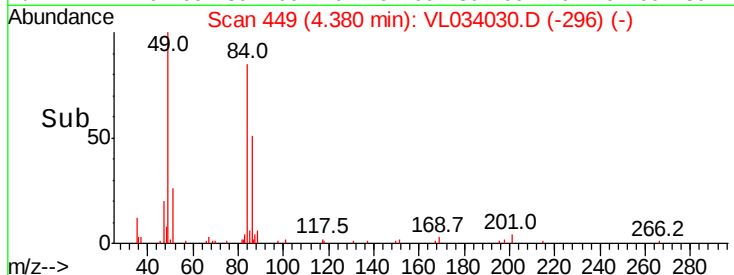
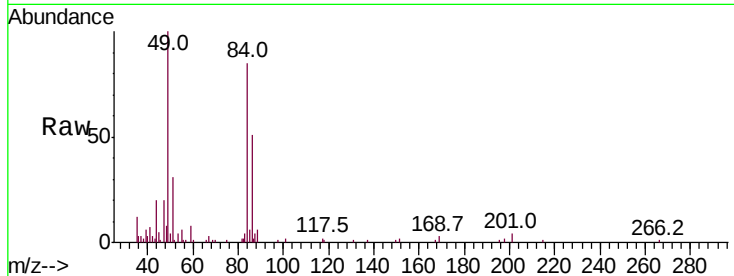
ClientSampleId :

NVS-1DLDP

Tot Ion	84	Resp	24608
Ion Ratio	Lower	Upper	
84	100		
49	118.2	107.6	161.4
51	30.2	35.0	52.6#
86	60.2	52.1	78.1

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#26

Hexane

Concen: 0.641 ppbv

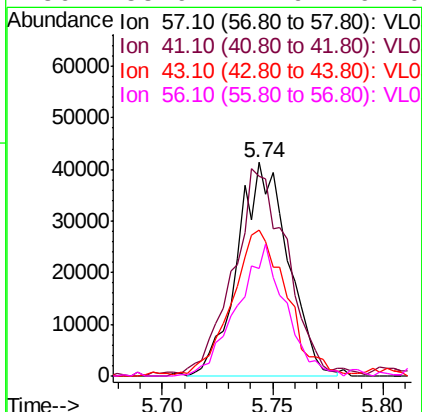
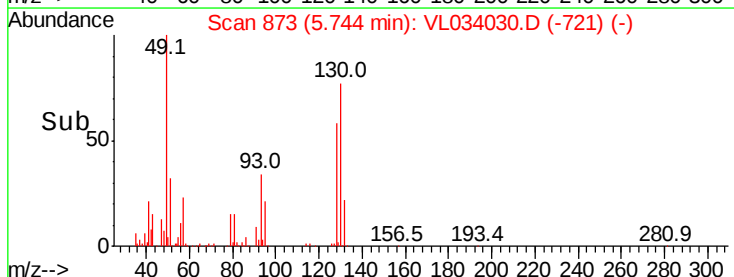
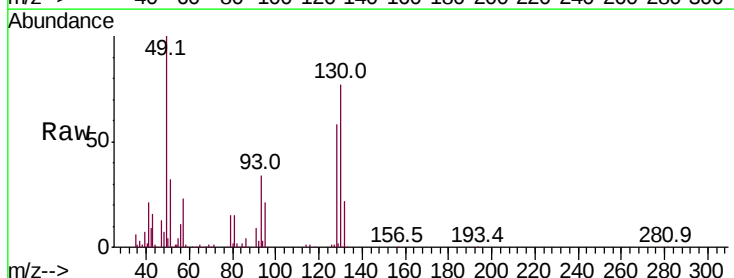
RT: 5.74 min Scan# 873

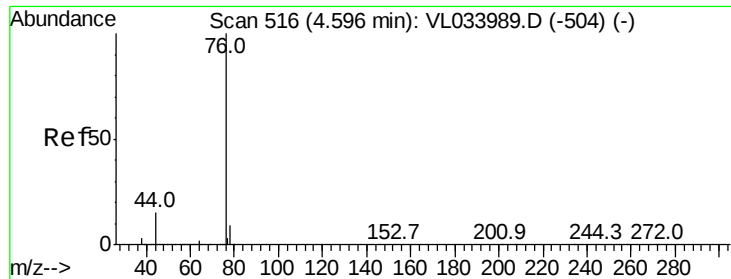
Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Tgt Ion	57	Resp	66009
Ion Ratio	Lower	Upper	
57	100		
41	104.9	70.6	105.8
43	75.0	177.6	266.4#
56	58.6	42.6	64.0





#27

Carbon Disulfide

Concen: 0.486 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Instrument :

MSVOA_L

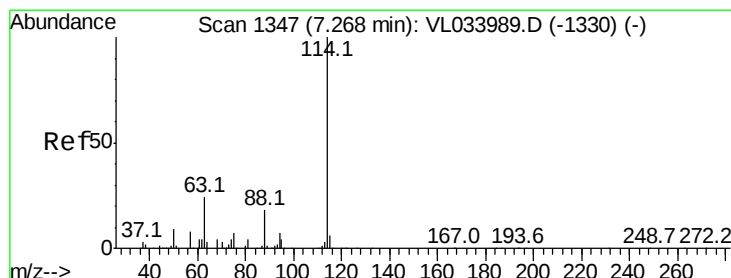
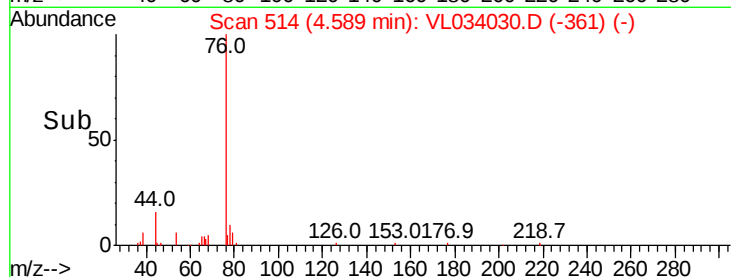
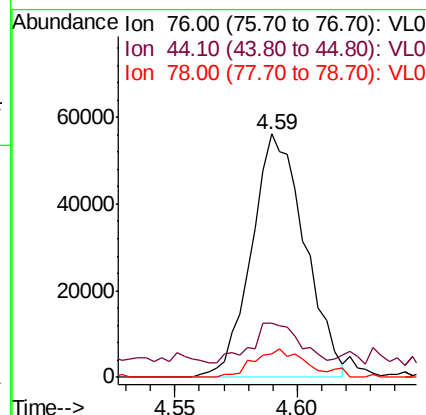
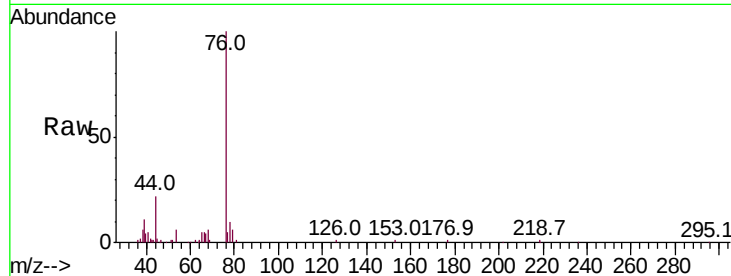
ClientSampleId :

NVS-1DLDP

Tot Ion:	76	Resp:	84961
Ion Ratio	Lower	Upper	
76	100		
44	30.7	12.6	18.8#
78	11.8	7.2	10.8#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

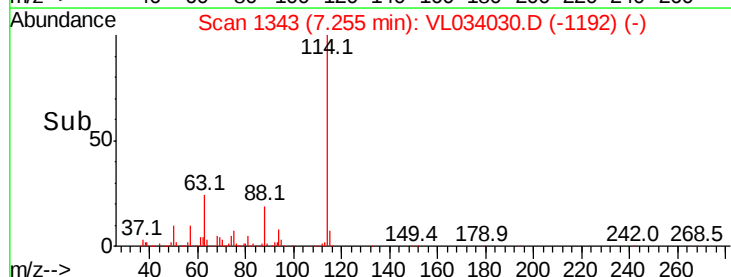
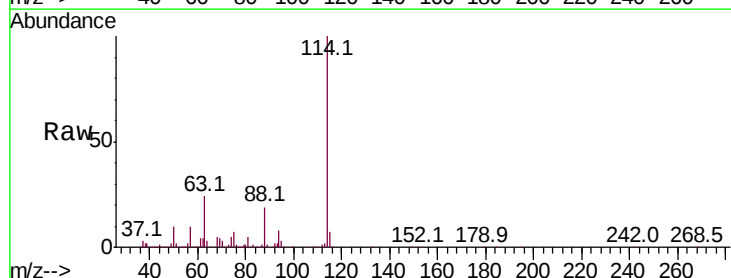
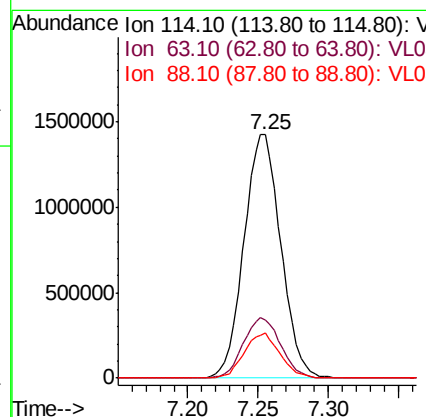
RT: 7.25 min Scan# 1343

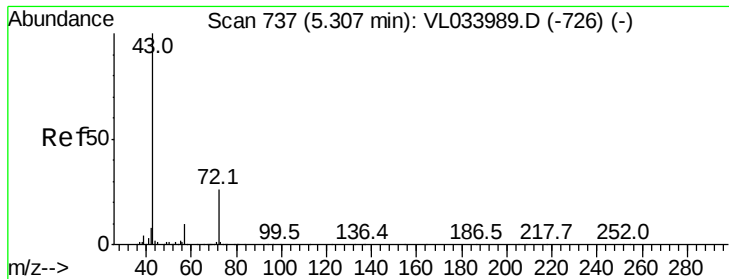
Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Tgt Ion:	114	Resp:	2611662
Ion Ratio	Lower	Upper	
114	100		
63	25.0	20.2	30.2
88	18.1	14.1	21.1





#34

2-Butanone

Concen: 1.370 ppbv

RT: 5.30 min Scan# 735

Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Instrument :

MSVOA_L

ClientSampleId :

NVS-1DLDP

Tot Ion: 43 Resp: 189321

Ion Ratio Lower Upper

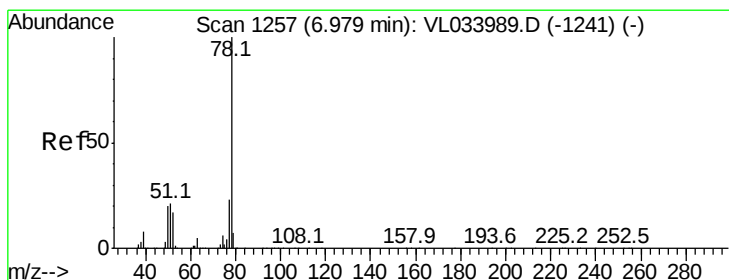
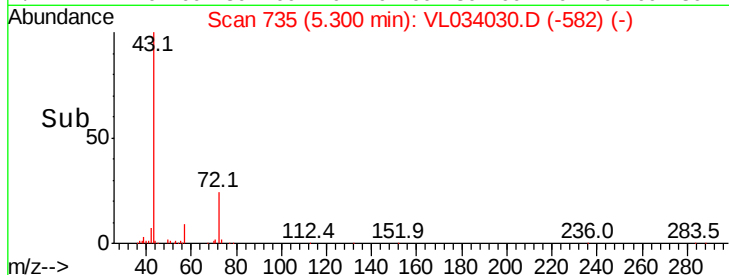
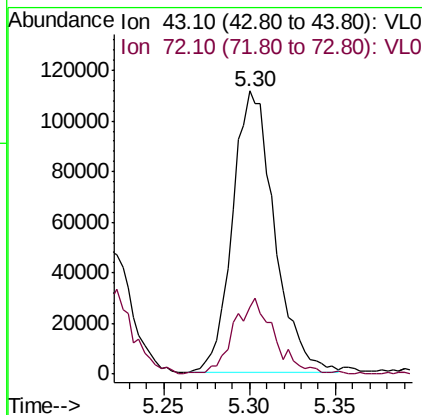
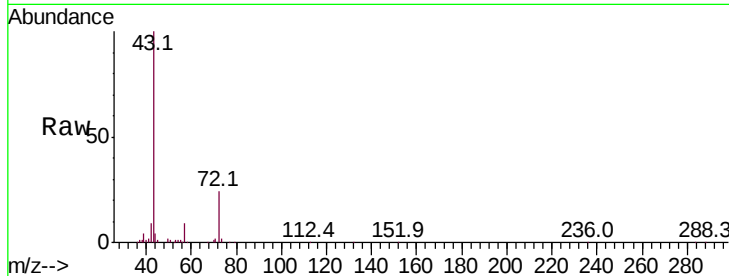
43 100

72 26.7 19.9 29.9

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#36

Benzene

Concen: 0.281 ppbv

RT: 6.97 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

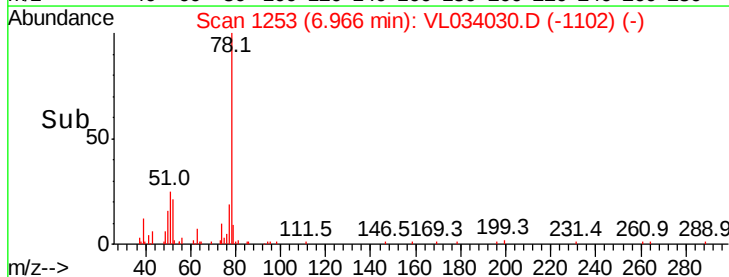
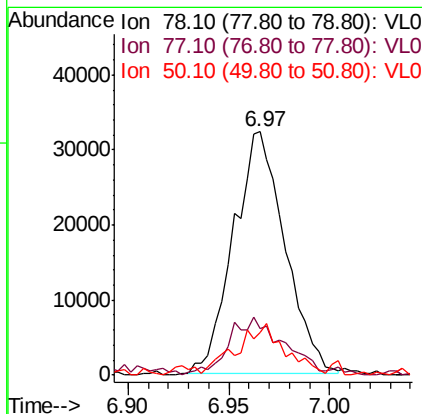
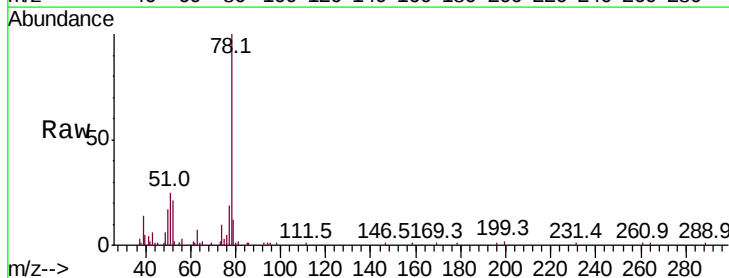
Tgt Ion: 78 Resp: 57502

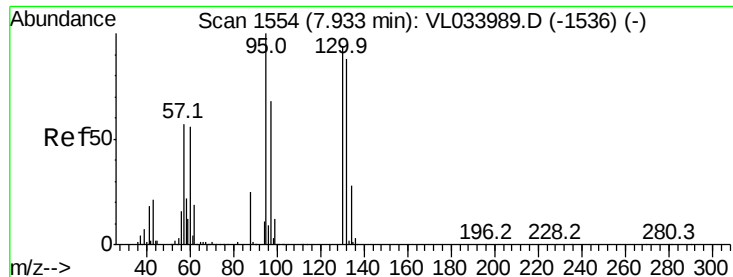
Ion Ratio Lower Upper

78 100

77 18.1 18.7 28.1#

50 15.1 16.2 24.2#





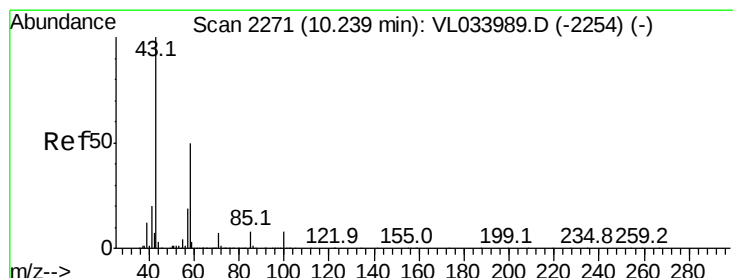
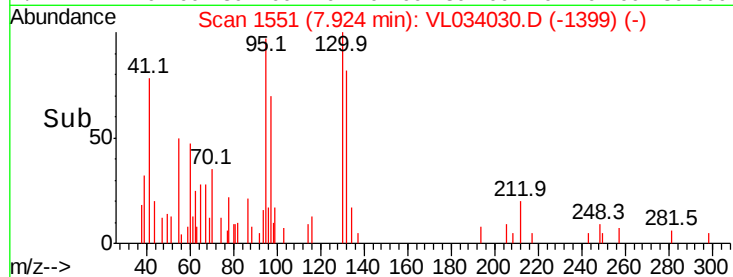
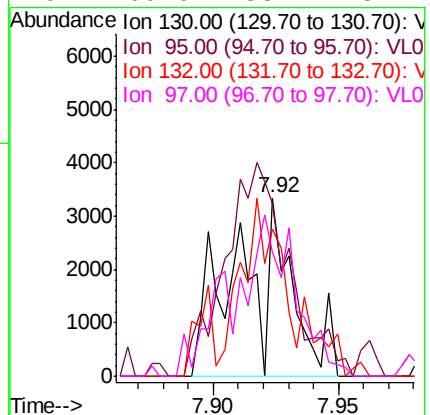
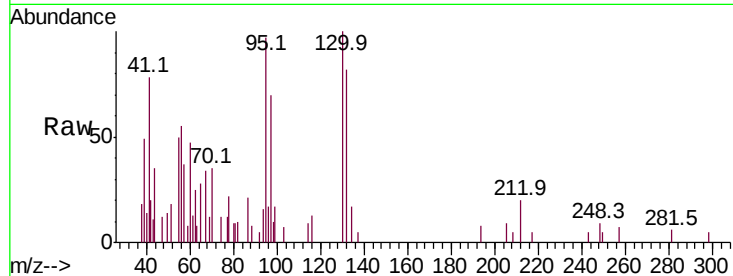
#38
 Trichloroethene
 Concen: 0.057 ppbv m
 RT: 7.92 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: VL034030.D
 Acq: 11 Jul 2019 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 NVS-1DLDP

Tot Ion:	130	Resp:	5181
Ion	Ratio	Lower	Upper
130	100		
95	97.0	85.5	128.3
132	82.5	75.1	112.7
97	69.9	58.1	87.1

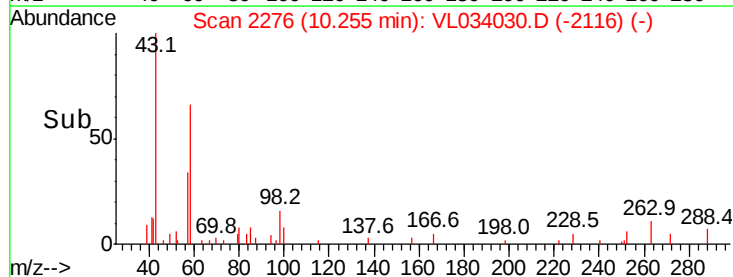
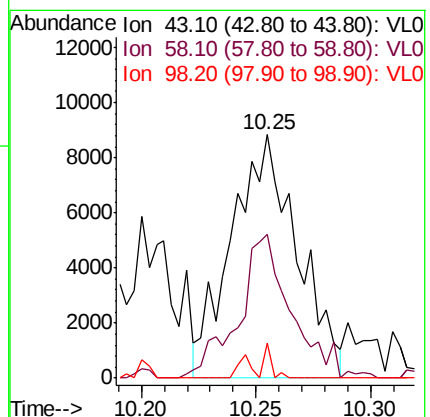
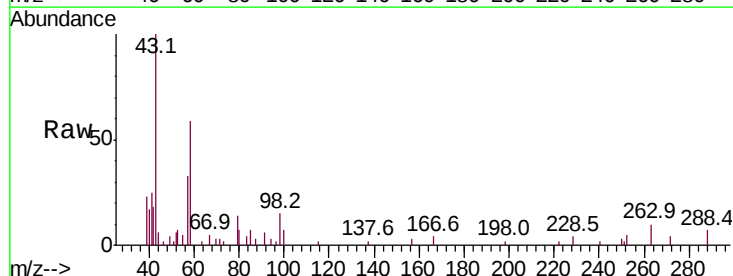
Manual Integrations
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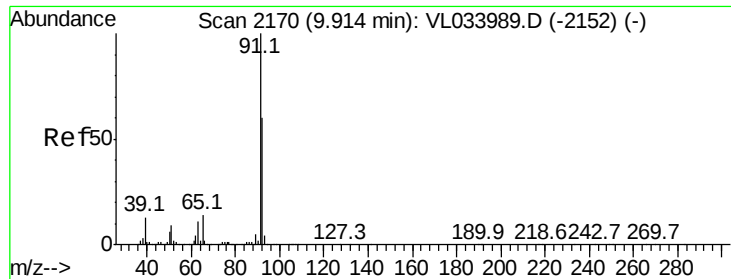
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#51
 2-Hexanone
 Concen: 0.106 ppbv m
 RT: 10.25 min Scan# 2276
 Delta R.T. 0.02 min
 Lab File: VL034030.D
 Acq: 11 Jul 2019 23:22

Tgt Ion:	43	Resp:	17560
Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.4#
98	0.0	0.2	0.2#





#53

Toluene

Concen: 1.180 ppbv

RT: 9.90 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Instrument :

MSVOA_L

ClientSampleId :

NVS-1DLDP

Tot Ion: 91 Resp: 276103

Ion Ratio Lower Upper

91 100

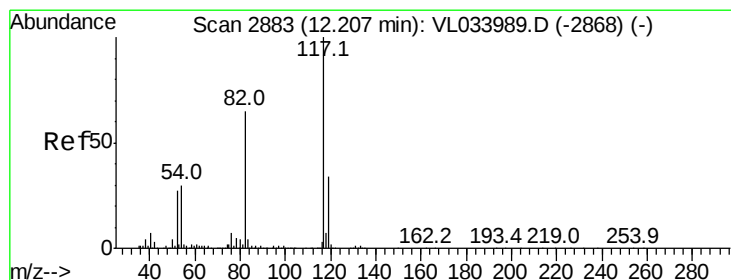
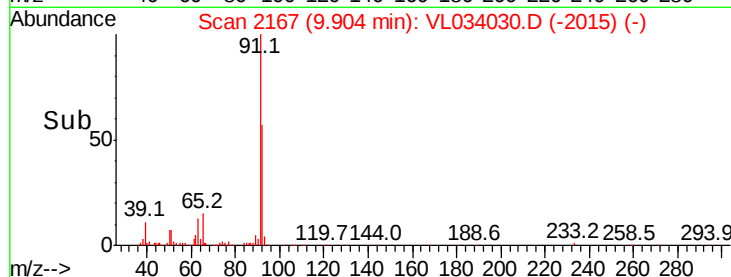
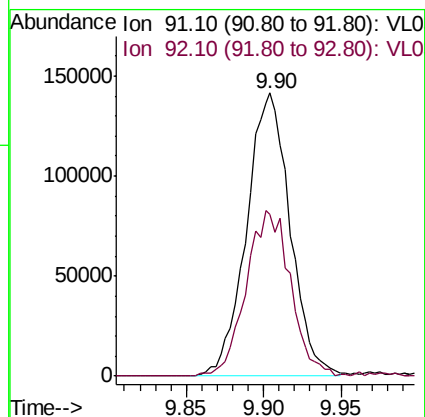
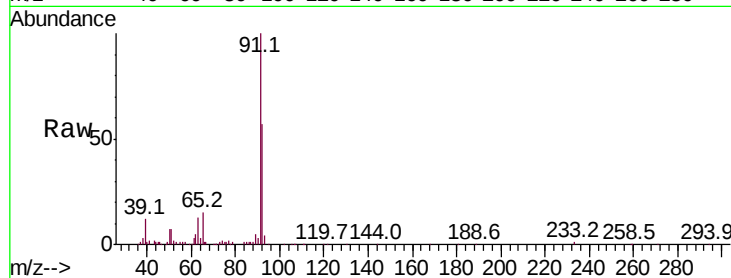
92 59.6 47.7 71.5

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.19 min Scan# 2878

Delta R.T. -0.02 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

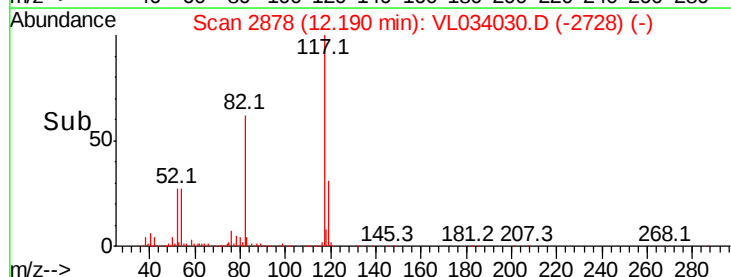
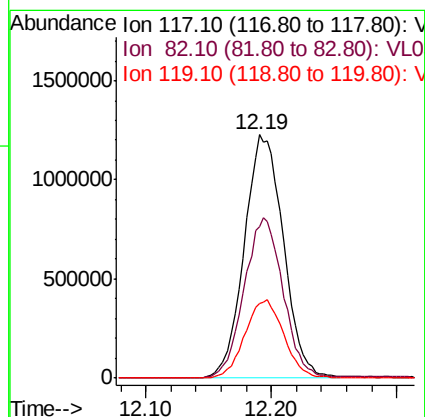
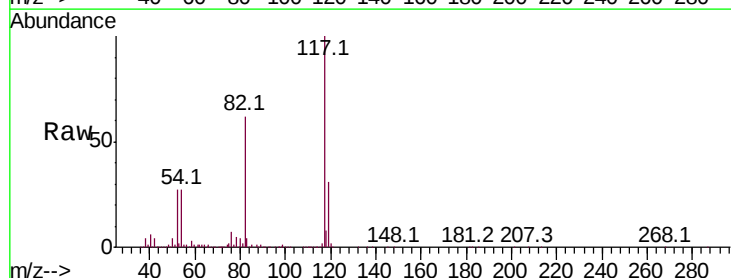
Tgt Ion: 117 Resp: 2662553

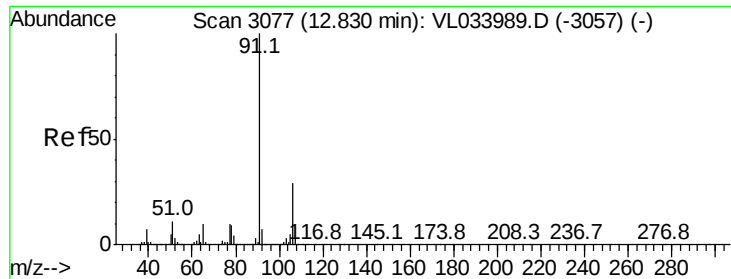
Ion Ratio Lower Upper

117 100

82 65.7 50.8 76.2

119 32.2 24.0 36.0





#58

Ethyl Benzene

Concen: 0.197 ppbv m

RT: 12.82 min Scan# 3074

Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Instrument :

MSVOA_L

ClientSampleId :

NVS-1DLDP

Tot Ion: 91 Resp: 63109

Ion Ratio Lower Upper

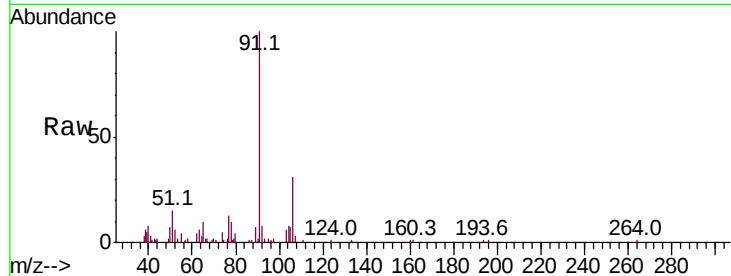
91 100

106 31.1 23.3 34.9

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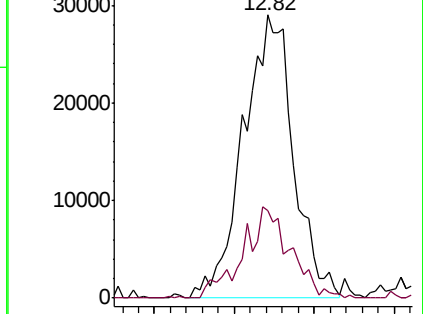
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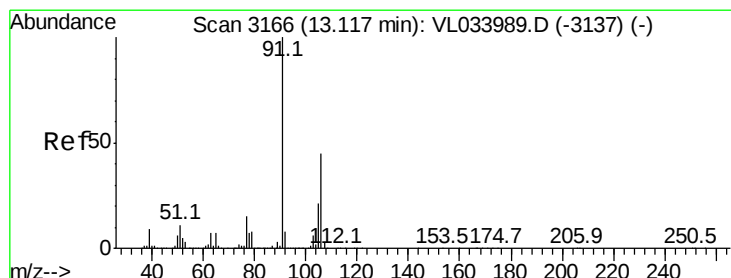
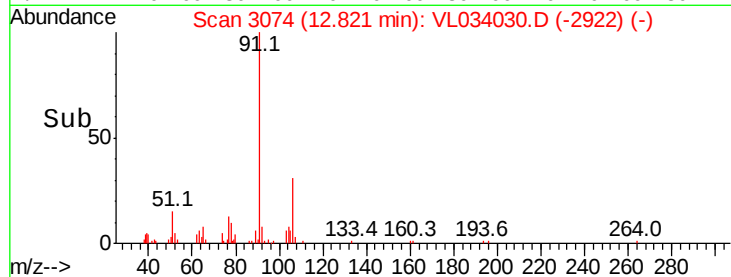


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



Time-->



#59

m/p-Xylene

Concen: 0.964 ppbv m

RT: 13.08 min Scan# 3155

Delta R.T. -0.04 min

Lab File: VL034030.D

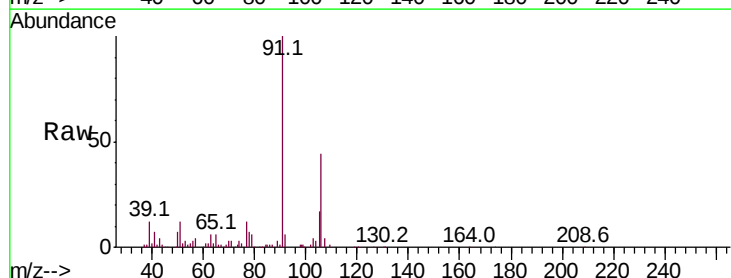
Acq: 11 Jul 2019 23:22

Tgt Ion: 91 Resp: 279361

Ion Ratio Lower Upper

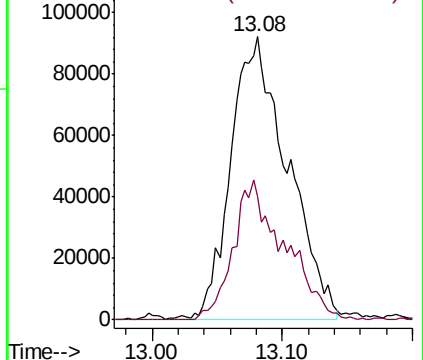
91 100

106 0.0 35.7 53.5#

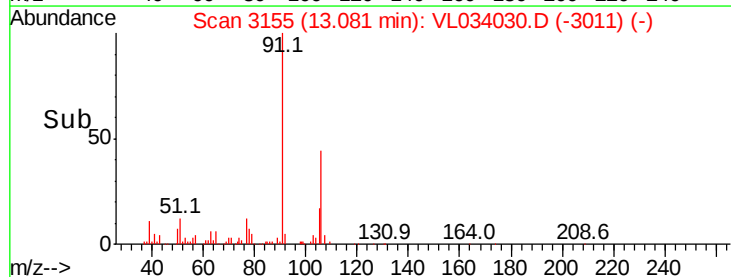


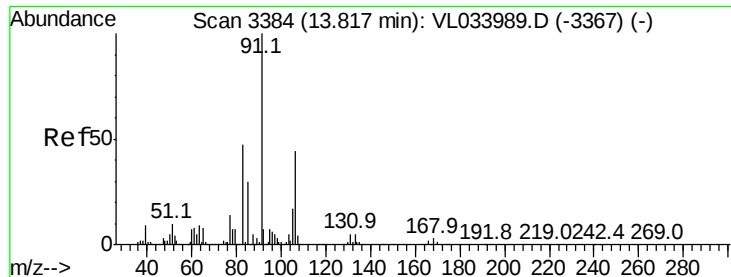
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



Time-->





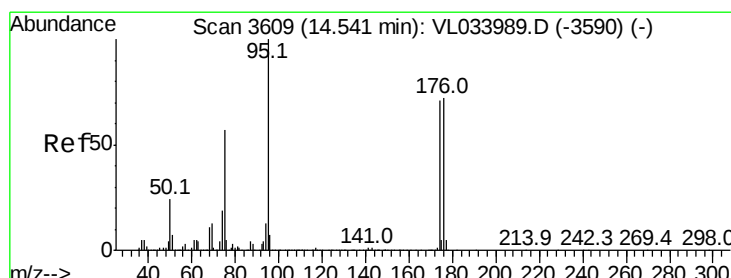
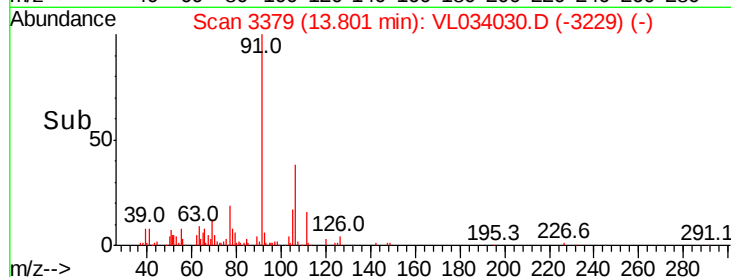
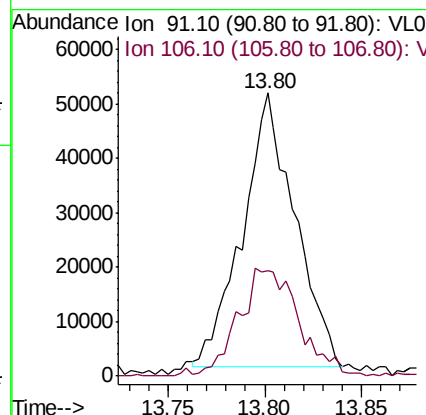
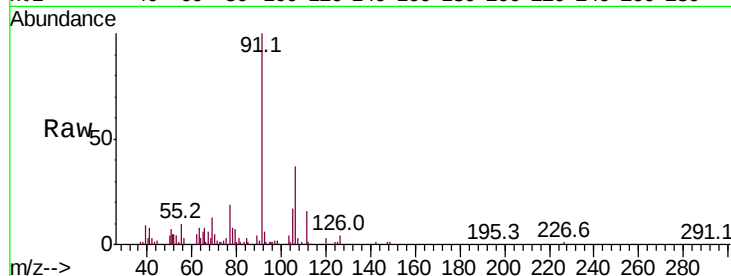
#60
o-Xylene
Concen: 0.328 ppbv
RT: 13.80 min Scan# 3379
Delta R.T. -0.02 min
Lab File: VL034030.D
Acq: 11 Jul 2019 23:22

Instrument :
MSVOA_L
ClientSampleId :
NVS-1DLDP

Tot Ion: 91 Resp: 95232
Ion Ratio Lower Upper
91 100
106 45.1 21.9 65.7

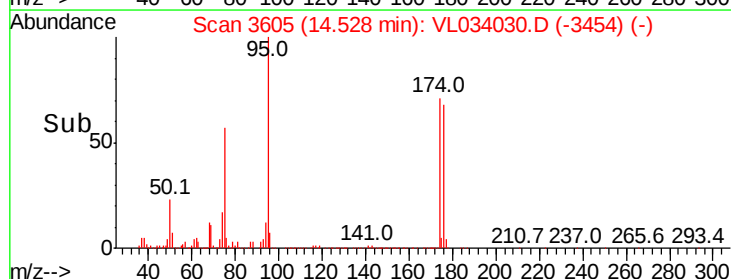
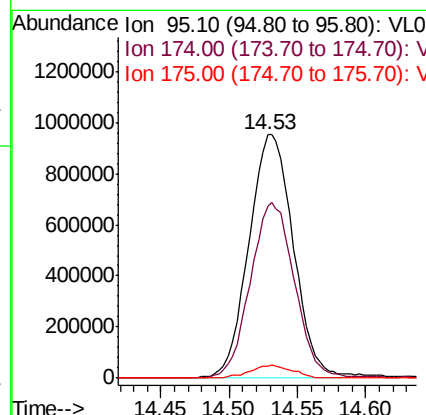
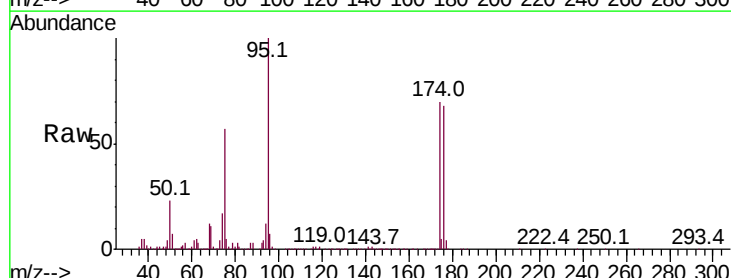
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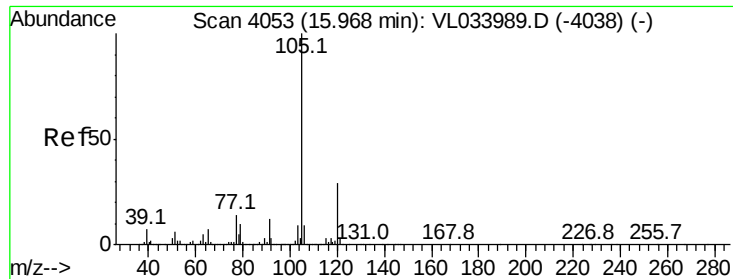
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.450 ppbv
RT: 14.53 min Scan# 3605
Delta R.T. -0.01 min
Lab File: VL034030.D
Acq: 11 Jul 2019 23:22

Tgt Ion: 95 Resp: 2146065
Ion Ratio Lower Upper
95 100
174 72.6 60.5 90.7
175 5.1 4.0 6.0





#72

4-Ethyltoluene

Concen: 0.127 ppbv m

RT: 15.96 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Instrument :

MSVOA_L

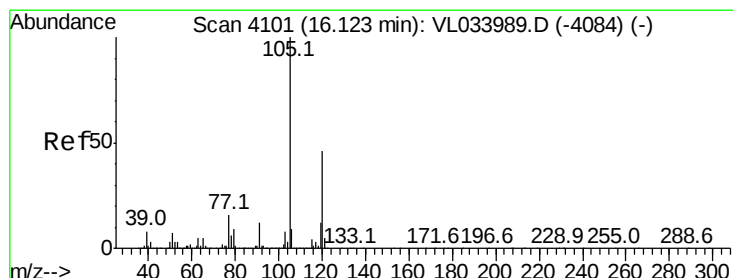
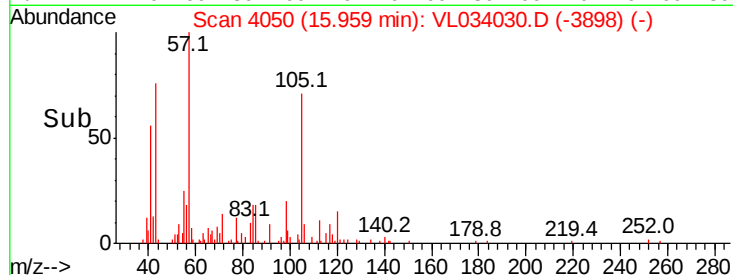
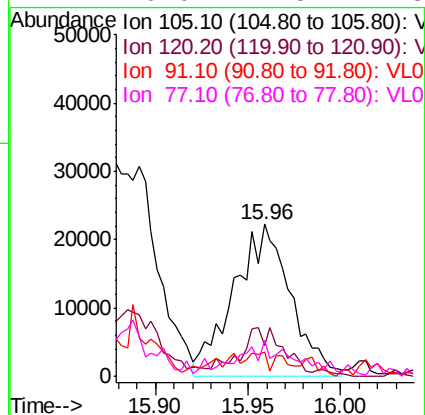
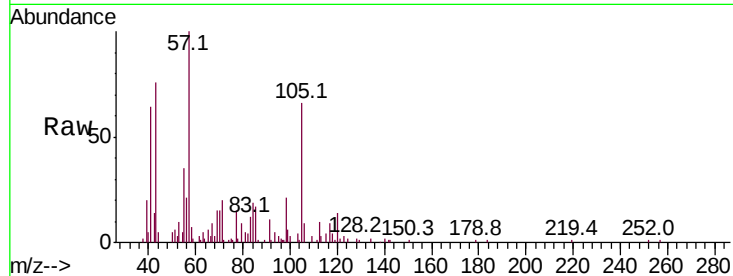
ClientSampleId :

NVS-1DLDUP

Tot Ion:	105	Resp:	47296
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.1	36.1#
91	0.0	10.6	16.0#
77	0.0	11.5	17.3#

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#73

1,3,5-Trimethylbenzene

Concen: 0.113 ppbv m

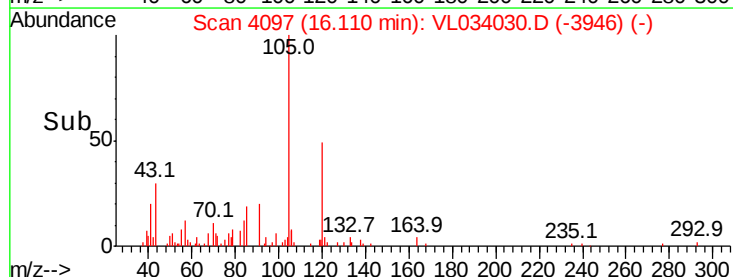
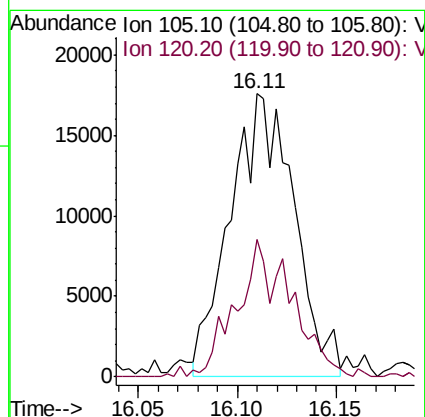
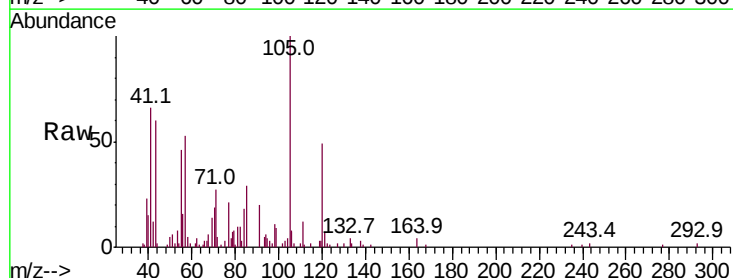
RT: 16.11 min Scan# 4097

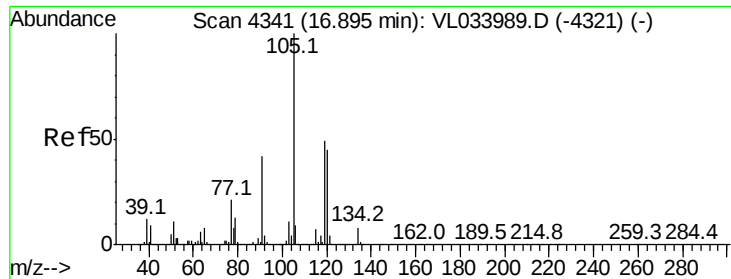
Delta R.T. -0.01 min

Lab File: VL034030.D

Acq: 11 Jul 2019 23:22

Tgt Ion:	105	Resp:	39184
Ion Ratio	Lower	Upper	
105	100		
120	48.7	36.4	54.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.292 ppbv
 RT: 16.88 min Scan# 4336
 Delta R.T. -0.02 min
 Lab File: VL034030.D
 Acq: 11 Jul 2019 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 NVS-1DLDP

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	38.7	36.2	54.2
91	15.4	34.3	51.5#
77	10.5	17.1	25.7#

Manual Integrations
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